Marion County ATC - Renovation & Addition

Lebanon, Kentucky

for the

Marion County Board of Education

755 East Main Street Lebanon, Kentucky 40033
p 270.692.3721

BG 25-341
RTA # 25015

rosstarrant architects

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enhancing education through great design

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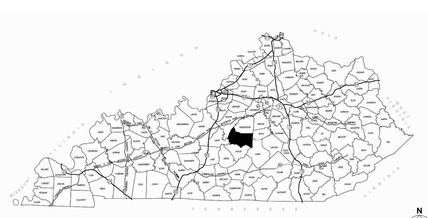
CALVERT INDEPENDENT HARDWARE SPECIFICATIONS, LLC
307 Oakwood Circle Vine Grove, Kentucky 40175
p 502.930.2039

PROJECT SITE ADDRESS:

721 East Main Street
Lebanon, Kentucky
40033

VICINITY MAP

PROJECT VICINITY MAP



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COVER SHEET
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
Lexington, KY Office
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Structural Engineer:
Structural Design Group, Inc.
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BG 25-341

Project No: 25015
Drawn By: BR / HS
Rev'd By: RB

SHEET RELEASE

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DESIGN DEVELOPMENT

G0.0

COVER SHEET

DATE ISSUED:
12/04/25

REVISIONS

#	DATE	DESCRIPTION

REFERENCE FLOOR PLAN
1/16" = 1'-0"
A G1.0

CODES AND APPLICABLE STANDARDS

2018 KENTUCKY BUILDING CODE (BASED ON THE 2015 INTERNATIONAL BUILDING CODE)
2009 ICC/ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
KENTUCKY STANDARDS OF SAFETY, LATEST EDITION
2012 INTERNATIONAL FIRE CODE (IFC), FOR NEW CONSTRUCTION AS PER KBC REQUIREMENTS
2012 INTERNATIONAL FIRE CODE FOR PORTABLE EXTINGUISHERS, SECTION 906
2012 INTERNATIONAL ENERGY CONSERVATION CODE (FOR USE WITH THE KENTUCKY BUILDING CODE ONLY)
2015 INTERNATIONAL MECHANICAL CODE
STATE BOILER CODES & REGULATIONS, LATEST EDITION
ASME BOILER, PRESSURE VESSEL, AND PRESSURE PIPING CODES, LATEST EDITION
KENTUCKY PLUMBING CODE, LATEST EDITION
2012 NFPA 01 - FIRE PREVENTION CODE
2010 NFPA 13 - SPRINKLER SYSTEMS
2010 NFPA 14 - STANDPIPE, HOSE SYSTEMS
2009 NFPA 54 - NATIONAL FUEL GAS
2023 NFPA 70 - NATIONAL ELECTRICAL CODE
2010 NFPA 72 - FIRE ALARM
UNITED LABORATORIES (UL) STANDARDS FOR FIRE RESISTANT CONSTRUCTION
AMERICAN STANDARDS AND TESTING METHODS (ASTM)
702 KAR 4:170 FACILITY PROGRAMMING AND CONSTRUCTION CRITERIA PLANNING GUIDE, KENTUCKY DEPARTMENT OF EDUCATION (KDE)

FIRE RESISTANCE REQUIREMENTS

FIRE RESISTANCE PER CONSTRUCTION TYPE: 2B

BUILDING ELEMENT:	FIRE-RESISTANCE RATING RQMT., HRS:
STRUCTURAL FRAME:	0
BEARING WALLS, EXTERIOR:	0
BEARING WALLS, INTERIOR:	0
NONBEARING WALLS & PARTITIONS, EXTERIOR:	0
NONBEARING WALLS & PARTITIONS, INTERIOR:	0
FLOOR CONSTRUCTION, INCL. SUPPORTING BEAMS & JOISTS:	0
ROOF CONSTRUCTION, INCL. SUPPORTING BEAMS & JOISTS:	0

ADDITIONAL FIRE-RESISTANT CONSTRUCTION

FIRE-RESISTANT ASSEMBLY TYPE:	FIRE-RESISTANCE RATING RQMT., HRS:
FIRE WALL	2
FIRE BARRIERS	2
VERTICAL EXIT ENCLOSURE	1
VERTICAL SHAFT, INCL. ELEVATOR	1
RECORDS ROOM IN ADMIN AREA (PER KDE)	2
CORRIDORS	N/A DUE TO SPRINKLER

SMOKE-TIGHT CONSTRUCTION REQUIRED FOR INCIDENTAL USE AREAS AS FOLLOWS:

INCIDENTAL USE AREA:
FURNACE ROOM WHERE ANY PIECE OF EQUIPMENT IS OVER 400,000 BTU/HR INPUT
ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 15 PSI AND 10 HP
REFRIGERANT MACHINERY ROOM
LABORATORIES AND VOCATIONAL SHOPS

*NOTE: THE ABOVE REQUIRE ONLY SMOKE-TIGHT CONSTRUCTION PER KBC DUE TO AUTOMATIC SPRINKLER

HEIGHT AND AREA CALCULATIONS

BUILDING: **EXISTING MARION COUNTY ATC**

OCCUPANCY CLASSIFICATION: **E** | CONSTRUCTION TYPE: **IIB** | SPRINKLER: **YES**

BUILDING PERIMETER, P: **1,483' - 0"** | OPEN PERIMETER, F: **1,114' - 0"** | WIDTH, W: **30'**

ALLOWABLE HEIGHT (FROM TABLE 504.3)	ACTUAL HEIGHT
75'-0"	**20'-0"**
ALLOWABLE STORIES (FROM TABLE 504.4)	ACTUAL STORIES, S_o
3	**1**
ALLOWABLE AREA (FROM TABLE 506.2)	ALLOWABLE AREA
I_f=[F/P-0.25] x (W/30) I_f=[**1,114/1483**-0.25] x (**30**/30) I_f=**0.50** At=58,000 SF NS=14,500 SF Ao=[At+(NSxI_f)] x S_o Ao=[58,000+(14,500x**0.50**)] x **1** Ao=**65,250 SF**	EXISTING 50,961

BUILDING: **ADDITION**

OCCUPANCY CLASSIFICATION: **E** | CONSTRUCTION TYPE: **IIB** | SPRINKLER: **YES**

BUILDING PERIMETER, P: **404' - 5"** | OPEN PERIMETER, F: **145' - 4"** | WIDTH, W: 30'

ALLOWABLE HEIGHT (FROM TABLE 504.3)	ACTUAL HEIGHT
75'-0"	**20'-0"**
ALLOWABLE STORIES (FROM TABLE 504.4)	ACTUAL STORIES, S_o
3	**1**
ALLOWABLE AREA (FROM TABLE 506.2) At = 58,000 SF NO CALCULATION RQD. ADDITION IS BELOW ALLOWABLE SF PER TABLE	ALLOWABLE AREA NEW **4,953**

NOTE:
1. ADDITION DOES NOT CHANGE EXISTING OCCUPANCY TYPE, OCCUPANCY COUNT OR EGRESS COMPONENTS. ALL NEW OCCUPANTS IN THE ADDITION EGRESS THROUGH THE ADDITION WITHOUT ENTERING INTO THE EXISTING HIGH SCHOOL.
2. ALL ROOMS WITHIN THE ADDITION HAVE LESS THAT 50 PROPOSED OCCUPANTS. THEREFORE EACH ROOM MEETS THE REQUIREMENT FOR 1 EXIT AND MINIMUM CLEAR EGRESS SPACE OF 32"

EGRESS COMPONENT TABLE

BUILDING A-FIRST FLOOR: X TOTAL OCCUPANTS + X OCCUPANTS FROM FLOORS ABOVE = X OCCUPANTS REQUIRES X EXITS

1A	DOOR	.15"	80	12"	68"	EXIT DISCHARGE
1B	DOOR	.15"	204	30"	68"	EXIT DISCHARGE
1C	DOOR	.15"	92	13"	68"	EXIT DISCHARGE
1D	DOOR	.15"	205	30"	68"	EXIT DISCHARGE
1E	DOOR	.15"	154	23"	68"	EXIT DISCHARGE
1F	DOOR	.15"	55	8"	32"	EXIT DISCHARGE
1G	DOOR	.15"	78	11"	32"	EXIT DISCHARGE
1H	DOOR	.15"	41	6"	32"	EXIT DISCHARGE
1J	DOOR	.15"	40	6"	32"	EXIT DISCHARGE
1K	DOOR	.15"	58	8"	32"	EXIT DISCHARGE
1L	DOOR	.15"	58	8"	32"	EXIT DISCHARGE
1M	DOOR	.15"	60	9"	32"	EXIT DISCHARGE
1N	DOOR	.15"	60	9"	32"	EXIT DISCHARGE

EGRESS PLAN - SYMBOL KEY

ROOM NAME / ROOM NUMBER / GROSS/NET S.F. / # OCCUPANTS & FUNCTION OF SPACE — ROOM TAG W/ DESIGN OCCUPANCY NUMBER NOTE: AREAS OF FIXED FURNITURE HAVE BEEN SUBTRACTED FROM TOTAL ROOM SQUARE FOOTAGE TO ARRIVE AT TOTAL NUMBER OF OCCUPANTS.

FUNCTION OF SPACE PER TABLE 1004.1.2
E - EDUCATION (NSF) | K - KITCHEN (GSF)
B - BUSINESS (GSF) | L - LOCKER ROOM (GSF)
S - STORAGE (GSF) | M - MERCANTILE (GSF)

* — INDICATES NON-CONCURRENT USE OCCUPANCY

COMPONENT SEE TABLE BELOW / #X / FLOOR — EGRESS COMPONENT TAG

EGRESS PATH

(#) — TOTAL UNPROTECTED EXIT ACCESS TRAVEL DISTANCE

OPEN PERIMETER FRONTAGE

DEMARCATION LINE BETWEEN EXISTING & NEW CONSTRUCTION

DURATION OF FIRE-RESISTANCE / #HR — FIRE PROTECTED AREA - I.E. ALL SURROUNDING WALLS ARE OF A FIRE-RESISTANT ASSEMBLY - SEE FIRE RESISTANCE REQUIREMENTS ABOVE FOR ADDITIONAL INFORMATION

* SEE A0.1 SHEET FOR ADDITIONAL FIRE-RESISTANCE SYMBOLS THAT MAY APPEAR ON THIS SHEET.

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101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

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CODE REVIEW
MARION COUNTY ATC - RENOVATION & ADDITION
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BG

Project No: 25015
Drawn By: BR/ HS
Rev'd By: RB

SHEET RELEASE	
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DESIGN DEVELOPMENT

G1.0

CODE REVIEW

DATE ISSUED:
12/04/25

KY SPCS
SOUTH ZONE
GRID NORTH

0 40 80 120

SCALE: 1" = 40'

SURVEY CONTROL TABLE

Point	Northing	Easting	Elevation	Description
1	2093898.14	1791916.18	902.54	IRON PIN SET WITH PINK PAE CAP
2	2094031.88	1791786.47	901.46	MAG NAIL SET WITH ORANGE DISK
3	2094005.82	1791548.93	904.26	MAG NAIL SET WITH ORANGE DISK
4	2093807.39	1791588.04	906.06	MAG NAIL SET WITH ORANGE DISK
5	2093644.81	1791621.50	905.46	MAG NAIL SET WITH ORANGE DISK
6	2093724.23	1791920.64	902.48	MAG NAIL SET WITH ORANGE DISK
51	2093622.14	1791664.81	904.86	CP, MAGNAIL IN CONC WATER VAULT
52	2093828.52	1792012.35	894.17	CP, MAGNAIL IN CURB
53	2094077.14	1791918.19	899.23	BM, MAG SPIKE AND TAG IN POLE
54	2093799.64	1791531.92	900.77	MAG NAIL SET IN HEADWALL

LEGEND

- 985 — MAJOR CONTOUR
- 986 — MINOR CONTOUR
- R/W — APPROXIMATE RIGHT OF WAY LINE
- STORM SEWER (FROM SURFACE OBSERVATION)
- SAN — SANITARY SEWER LINE (FROM TUD MARKS)
- W — WATERLINE (FROM TUD MARKS)
- W-PS — WATERLINE (FROM 2009 QORE SURVEY)
- G — GAS LINE (FROM TUD MARKS)
- GAS — GAS LINE (FROM KY 811 MARKS)
- FO — UNDERGROUND FIBER OPTIC LINE (FROM TUD MARKS)
- COM — UNDERGROUND COMMUNICATION LINE (FROM TUD MARKS)
- UGE — UNDERGROUND ELECTRIC LINE (FROM TUD MARKS)
- AU — AERIAL UTILITY (FROM SURFACE OBSERVATIONS ONLY)
- X — FENCE LINE
- GUARD RAIL
- TREE/SHRUB LINE
- EDGE GRAVEL
- BUILDING OVERHANG
- AU — AERIAL UTILITY
- PROPERTY MONUMENT FOUND
- RIGHT OF WAY MONUMENT FOUND
- STORM SEWER INLET
- DOWNSPOUT TO STORM
- SANITARY SEWER MANHOLE
- CO — SANITARY SEWER CLEANOUT
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- FIRE HOSE CONNECTION
- PIV — POST INDICATOR VALVE
- GAS VALVE
- COMMUNICATIONS PEDESTAL
- LIGHT POLE
- LANDSCAPE LIGHT
- ELEC — ELECTRIC METER
- ELECTRIC (MISC.)
- UTILITY POLE
- GUY WIRE
- FLAG POLE
- TREE (NOT TO SCALE)
- CP # — CONTROL POINT
- SIGN
- BOLLARD (NOT TO SCALE)

DISCLAIMERS

THE SUBSURFACE UTILITY LOCATIONS AND DESCRIPTIONS SHOWN HEREON WERE DETERMINED TO THE EXTENT POSSIBLE BY SURFACE OBSERVATIONS, LOCATION MARKINGS PROVIDED BY THE UNDERGROUND DETECTIVE (TUD), LOCATION MARKINGS MADE BY KY811 (TICKET NUMBER(S): 251701285 AND 251701286). LINES SHOWN MAY VARY FROM THE LOCATIONS OUTLINED AND ADDITIONAL UTILITIES AND OR EASEMENTS MAY EXIST. NO LIABILITY IS ASSUMED BY THE SURVEYOR FOR ANY LOSS OR DAMAGE THAT MAY OCCUR DURING DESIGN OR CONSTRUCTION.

SURVEY NOTES

THE PURPOSE OF THIS SURVEY IS TO PROVIDE SITE IMPROVEMENT AND TOPOGRAPHIC INFORMATION ONLY. THIS DOCUMENT DOES NOT REPRESENT A BOUNDARY SURVEY, IS NOT INTENDED FOR RECORDING OR LAND TRANSFER AND IS NOT INTENDED TO COMPLY WITH 201 KAR 18:150.

THE NORTH MERIDIAN & VERTICAL DATUM SHOWN HEREON ARE BASED ON GPS OBSERVATIONS MADE USING A CARLSON BRx7 NETWORK RECEIVER USING C.O.R.S. STATION "VRS". THE HORIZONTAL DATUM IS KENTUCKY STATE PLANE COORDINATE SYSTEM SOUTH ZONE(NAD 83) GRID NORTH. THE VERTICAL DATUM IS NAVD 88 (GEOID 18). THIS SURVEY CONTROL WAS ESTABLISHED ON JUNE 26, 2025.

THIS SURVEY WAS CONDUCTED BY THE METHOD OF RANDOM TRAVERSE WITH SIDESHOTS USING A CARLSON CR+ ROBOTIC TOTAL STATION.

THESE PROPERTIES ARE SUBJECT TO ALL EASEMENTS AND RIGHTS OF WAY BOTH RECORDED AND UNRECORDED.

DATE OF SURVEY: JULY 2, 2025

STORM AND SANITARY NOTE

I=INLET, O=OUTLET
INLET ORDER IS CLOCKWISE FROM OUTLET

PREVIOUS SURVEY NOTE

THE "W-PS" LINETYPE FROM PREVIOUS SURVEY

LAND SURVEYORS CERTIFICATION

I DO HEREBY CERTIFY THAT THIS SURVEY WAS PREPARED UNDER MY DIRECTION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE INFORMATION SHOWN HEREON IS TRUE AND ACCURATE.

ALAN W. LEAKE, P.L.S. #3032 — 7/15/2025 DATE

STATE OF KENTUCKY
ALAN W LEAKE 3032
LICENSED PROFESSIONAL LAND SURVEYOR
SEAL

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755 E MAIN STREET
LEBANON, MARION COUNTY, KENTUCKY

CLIENT
MARION COUNTY BOARD OF EDUCATION
755 E MAIN STREET
LEBANON, MARION COUNTY, KENTUCKY

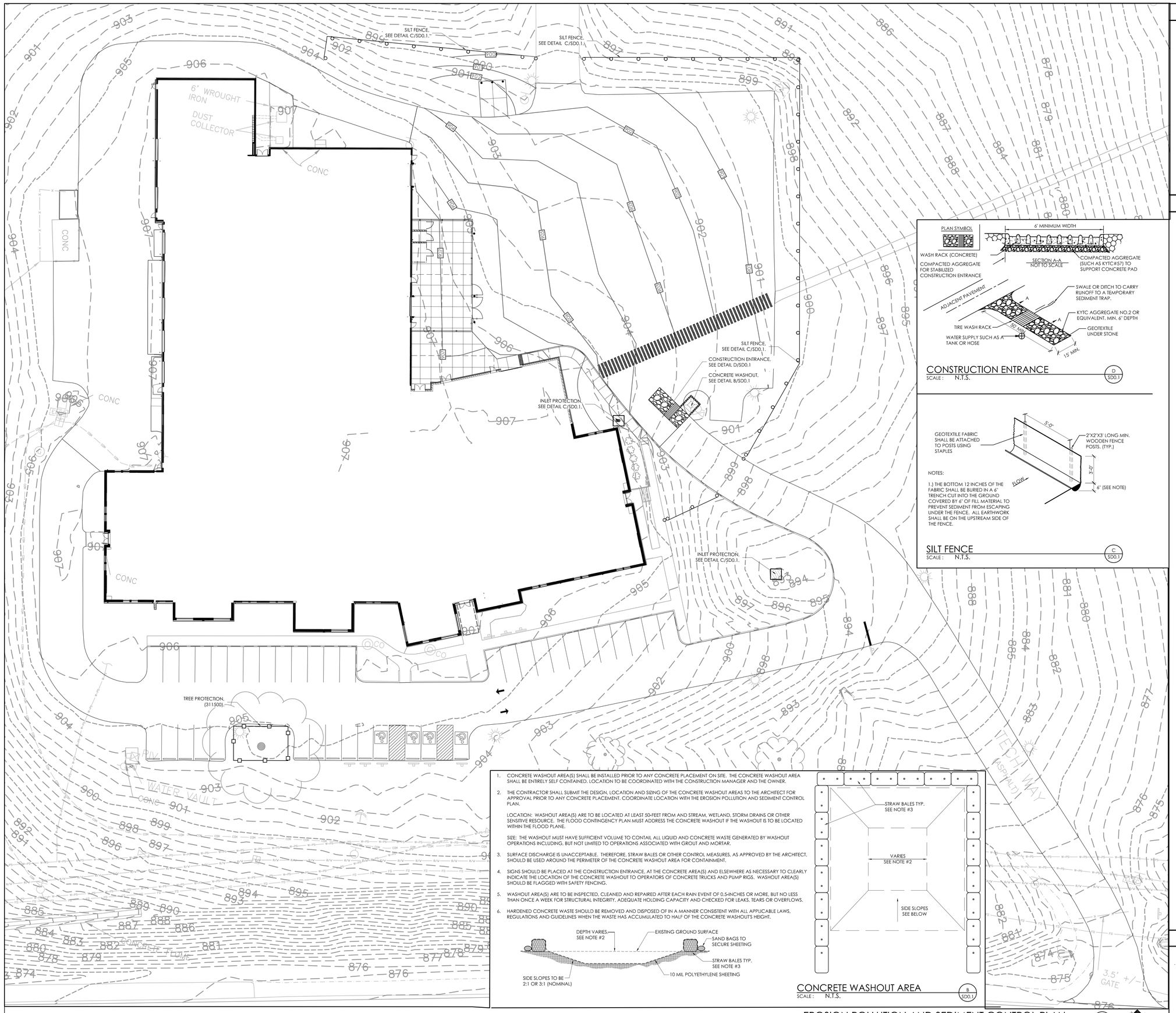
PROJECT NO.: 250349
DATE: 7/14/2025
DRAWN BY: TMS
CHECKED BY: AWL

DESCRIPTION OF REVISION

TOPOGRAPHIC SURVEY

MARION COUNTY AREA
TECHNOLOGY CENTER
721 E MAIN STREET
LEBANON, MARION COUNTY, KENTUCKY

SHEET NO.
1 OF 1



EROSION POLLUTION AND SEDIMENT CONTROL PLAN

SCALE : 1"= 20'

A SD0.1

0 20 40 Feet

CONSTRUCTION ENTRANCE

SCALE : N.T.S.

D SD0.1

SILT FENCE

SCALE : N.T.S.

C SD0.1

1. CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY SELF CONTAINED. LOCATION TO BE COORDINATED WITH THE CONSTRUCTION MANAGER AND THE OWNER.
2. THE CONTRACTOR SHALL SUBMIT THE DESIGN, LOCATION AND SIZING OF THE CONCRETE WASHOUT AREAS TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY CONCRETE PLACEMENT. COORDINATE LOCATION WITH THE EROSION POLLUTION AND SEDIMENT CONTROL PLAN.

   LOCATION: WASHOUT AREA(S) ARE TO BE LOCATED AT LEAST 50-FEET FROM AND STREAM, WETLAND, STORM DRAINS OR OTHER SENSITIVE RESOURCE. THE FLOOD CONTINGENCY PLAN MUST ADDRESS THE CONCRETE WASHOUT IF THE WASHOUT IS TO BE LOCATED WITHIN THE FLOOD PLANE.

   SIZE: THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIL ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING, BUT NOT LIMITED TO OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.
3. SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, STRAW BALES OR OTHER CONTROL MEASURES, AS APPROVED BY THE ARCHITECT, SHOULD BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT AREA FOR CONTAINMENT.
4. SIGNS SHOULD BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. WASHOUT AREA(S) SHOULD BE FLAGGED WITH SAFETY FENCING.
5. WASHOUT AREA(S) ARE TO BE INSPECTED, CLEANED AND REPAIRED AFTER EACH RAIN EVENT OF 0.5-INCHES OR MORE, BUT NO LESS THAN ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECKED FOR LEAKS, TEARS OR OVERFLOWS.
6. HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS AND GUIDELINES WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S HEIGHT.

CONCRETE WASHOUT AREA

SCALE : N.T.S.

B SD0.1

GENERAL SITE NOTES

1. THE SITE PLANS WERE PREPARED BASED UPON TOPOGRAPHIC SURVEYS BY PRIME AE, 651 PERIMETER DRIVE, SUITE 300, LEXINGTON, KY 40517. REFER TO SITE SURVEY SHEETS.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND CONDITIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
3. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
4. THE CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. MEASURES SHOULD BE TAKEN TO PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN ON SD0.1 FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.
6. REFER TO CONSTRUCTION MANAGER'S PLANS AND SPECIFICATIONS FOR INFORMATION REGARDING CONSTRUCTION SCHEDULE/SEQUENCING, CONSTRUCTION FENCING/STAGING.

SITE BMP NOTES

1. CONTRACTOR IS TO PROVIDE ALL KPDES PERMITS, NOTICES OF INTENT (NOI'S) AND NOTICES OF TERMINATION INCLUDING EROSION AND SEDIMENT CONTROL PLANS FOR ALL PHASES OF CONSTRUCTION. ALL KPDES AND RELATED DIVISION OF WATER REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE PROJECT IS CLOSED OUT AND THE NOTICE OF TERMINATION APPROVED.
2. SEDIMENT CONTROL FENCING SHOWN AND REFERENCES TO SEDIMENT CONTROLS AT STORM WATER STRUCTURES AND ELSEWHERE ON THE DOCUMENTS ARE NOT TO BE USED FOR DIVISION OF WATER REQUIREMENTS. THESE REFERENCES ARE ONLY REQUIRED BY THE DESIGNER FOR PROPER MAINTENANCE OF THE STORM WATER SYSTEM AND TO MINIMIZE CLEANING OF THE SYSTEM AND PAVEMENTS.
3. EXISTING VEGETATION IS TO BE LEFT INTACT UNTIL CONSTRUCTION IN THAT PARTICULAR LOCATION IS REQUIRED. SOIL STABILIZATION PRACTICES (SEEDING, MULCHING, ETC.) ARE TO BEGIN WITHIN 14 DAYS OF PERMANENT COMPLETION OR TEMPORARY HALT (21 DAYS OR MORE) OF WORK IN ANY PARTICULAR AREA.
4. PERIMETER SEDIMENT AND EROSION CONTROLS ARE TO BE INSTALLED PRIOR TO THE START OF SITE CLEARING AND GRUBBING. EROSION CONTROLS SHALL BE IN ACCORDANCE WITH KYTC. CONTROL SHALL BE ACCOMPLISHED BY USE OF INTERCEPTOR DITCHES, DITCH SILT CHECKS, TEMPORARY SEEDING AND OTHER MEASURES AS MAY BE EFFECTIVE IN ACHIEVING THE DESIRED EFFECT. SILT FENCE SHALL BE INSTALLED TO PREVENT EROSION AND WASH-OFF ONTO WALKS, PAVEMENTS AND ALL ADJOINING PROPERTIES.
5. INSTALL SEDIMENT CONTROL FENCE OR SEDIMENT TRAPS AROUND ALL STORM WATER INLETS AND MAINTAIN UNTIL VEGETATION IS ESTABLISHED OR AREA PAVED AS APPROVED BY THE ARCHITECT. STORM WATER INLET PROTECTION IS TO BE INSTALLED IMMEDIATELY AFTER INSTALLATION OF THE STRUCTURES. REMOVE PROTECTIONS AT THE COMPLETION OF THE PROJECT WHEN CONDITIONS NO LONGER WARRANT THEIR USE. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN FOR DETAILS.
6. TYPICAL SILT FENCE AND SEDIMENT TRAP INSTALLATION DETAILS ARE SHOWN ON THE EROSION POLLUTION AND SEDIMENT CONTROL PLAN. SEE KYTC STANDARDS FOR INFORMATION CONCERNING THE STONE SILT CHECKS.
7. SEDIMENT CONTROLS ARE TO BE INSPECTED, CLEANED AND REPAIRED AFTER EACH RAIN EVENT OF 0.5 INCHES OR MORE, BUT NO LESS THAN ONCE PER WEEK. A LOG OF INSPECTIONS AND CLEANING IS TO BE KEPT ON SITE.
8. THE LOCATIONS OF SEDIMENT CONTROLS SHOWN ARE FOR GENERAL PROTECTION PRACTICES AND NOT AS PART OF A BMP PLAN. IF CONSTRUCTION ACTIVITIES PRODUCE CONDITIONS THAT REQUIRE ADDITIONAL CONTROLS, IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE, INSTALL AND MAINTAIN THE CONTROLS UNTIL CONDITIONS NO LONGER WARRANT THEIR USE.
9. ALL STORM DRAINAGE CATCH BASINS, CURB INLETS, AND JUNCTIONS BOXES ARE TO RECEIVE PROTECTION FROM SEDIMENTATION. AT A MINIMUM A PERIMETER SILT FENCE SHOULD BE INSTALLED AROUND THE DRAINAGE STRUCTURE AND INSTALLED UNDER THE GRATE.
10. LOCATION OF CONSTRUCTION ENTRANCE TO BE COORDINATED WITH OWNER. SEE DETAIL D/SD0.1.
11. LOCATION OF CONCRETE WASHOUT AREA TO BE COORDINATED WITH OWNER. SEE DETAIL B/SD0.1.
12. EXTENTS OF SILT FENCE SHOWN ARE A MINIMUM REQUIREMENT. SILT FENCE IS TO BE ADDED/ADJUSTED AS NECESSARY FOR SOIL STOCKPILES.
13. LOCATION OF SOIL STOCKPILES IS TO BE COORDINATED BETWEEN THE OWNER AND THE CONTRACTOR. ANY AREAS USED FOR STOCKPILES ARE TO BE RETURNED TO THEIR ORIGINAL CONDITION.

LEGEND

- SEDIMENT CONTROL FENCE. ADDITIONAL FENCE MAY BE REQUIRED AT OTHER AREAS DURING CONSTRUCTION. SEE DETAIL C/SD0.1
- INLET PROTECTION. SEE DETAIL C/SD0.2
- CONSTRUCTION ENTRANCE. SEE DETAIL D/SD0.2
- CONCRETE WASHOUT AREA. SEE B/SD0.1

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EROSION POLLUTION AND SEDIMENT CONTROL PLAN

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No:	25015
Drawn By:	SBP
Rev'd By:	MM/DS

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SD0.1

EROSION, POLLUTION & SEDIMENT CONTROL PLAN
DATE ISSUED:
12/04/2025

GENERAL SITE NOTES

1. THE SITE PLANS WERE PREPARED BASED UPON TOPOGRAPHIC SURVEYS BY PRIME AE, 651 PERIMETER DRIVE, SUITE 300, LEXINGTON, KY 40517. REFER TO SITE SURVEY SHEETS.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND CONDITIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
3. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
4. THE CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. MEASURES SHOULD BE TAKEN TO PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN ON SD0.1 FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.
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SITE DEMOLITION TAGS

◇0 EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- [a] BUILDING TO REMAIN. NO UTILITIES TO THESE FACILITIES ARE TO BE REMOVED UNLESS NEW PERMANENT UTILITY IS PROVIDED PRIOR TO DEMOLITION.
- [b] PAVEMENT TO REMAIN - PATCH/REPAIR WHERE DAMAGED BY CONSTRUCTION. SAW-CUT TO PROVIDE CLEAN EDGE. CONCRETE PAVING TO BE SAW-CUT BACK TO NEAREST UNDAMAGED CONTROL OR ISOLATION JOINT. MATCH NEW ADJACENT PAVEMENT TO EXISTING PAVEMENT ELEVATIONS
- [c] TREE/VEGETATION TO REMAIN.
- [d] UTILITY TO REMAIN.
- [e] CURB TO REMAIN.
- [f] FENCING TO REMAIN.
- [g] STORM LINE/STRUCTURE TO REMAIN
- [h] STAIR TO REMAIN.
- [i] BOLLARD TO REMAIN.
- [j] SIGNAGE TO REMAIN
- [k] HANDRAIL TO REMAIN.

◇1 DEMOLISH AND REMOVE EXISTING ASPHALT PAVEMENT AND AGGREGATE BASE. SAWCUT EDGES.

◇2 1.5" MILL OF EXISTING ASPHALT.

◇3 DEMOLISH AND REMOVE EXISTING CONCRETE PAVEMENT AND AGGREGATE BASE. SAWCUT EDGES.

◇4 DEMOLISH AND REMOVE EXISTING GRAVEL PAVEMENT AND AGGREGATE BASE.

◇5 DEMOLISH AND REMOVE EXISTING CONCRETE CURB/CURB AND GUTTER. SAW CUT TO PROVIDE CLEAN TRANSITION FOR ADJACENT NEW CURB.

◇6 DEMOLISH AND REMOVE EXISTING STORM LINE/STRUCTURE.

◇7 DEMOLISH AND REMOVE CONCRETE FILLED PIPE BOLLARDS AND FOUNDATIONS.

◇8 DEMOLISH AND REMOVE EXISTING UTILITY LINE/STRUCTURE. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

◇9 DEMOLISH AND REMOVE EXISTING HANDRAIL.

◇10 SALVAGE AND REINSTALL EXISTING WHEELSTOPS. SEE LAYOUT AND DEVELOPMENT PLANS FOR NEW LOCATIONS.

LEGEND

- CONCRETE PAVEMENT DEMOLITION
- ASPHALT PAVEMENT DEMOLITION
- MILL EXISTING ASPHALT PAVEMENT
- GRAVEL PAVEMENT DEMOLITION
- SEDIMENT CONTROL FENCE. ADDITIONAL FENCE MAY BE REQUIRED AT OTHER AREAS DURING CONSTRUCTION. SEE DETAIL C/SD0.1
- TREE PROTECTION FENCE. INSTALLED PER SPECIFICATIONS (311500)

SITE DEMOLITION PLAN

SCALE: 1"= 20'

0 20 40 Feet

A SD0.2

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SITE DEMOLITION PLAN

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:

MARION COUNTY BOARD OF EDUCATION

LEBANON, KENTUCKY

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SITE DEMOLITION PLAN

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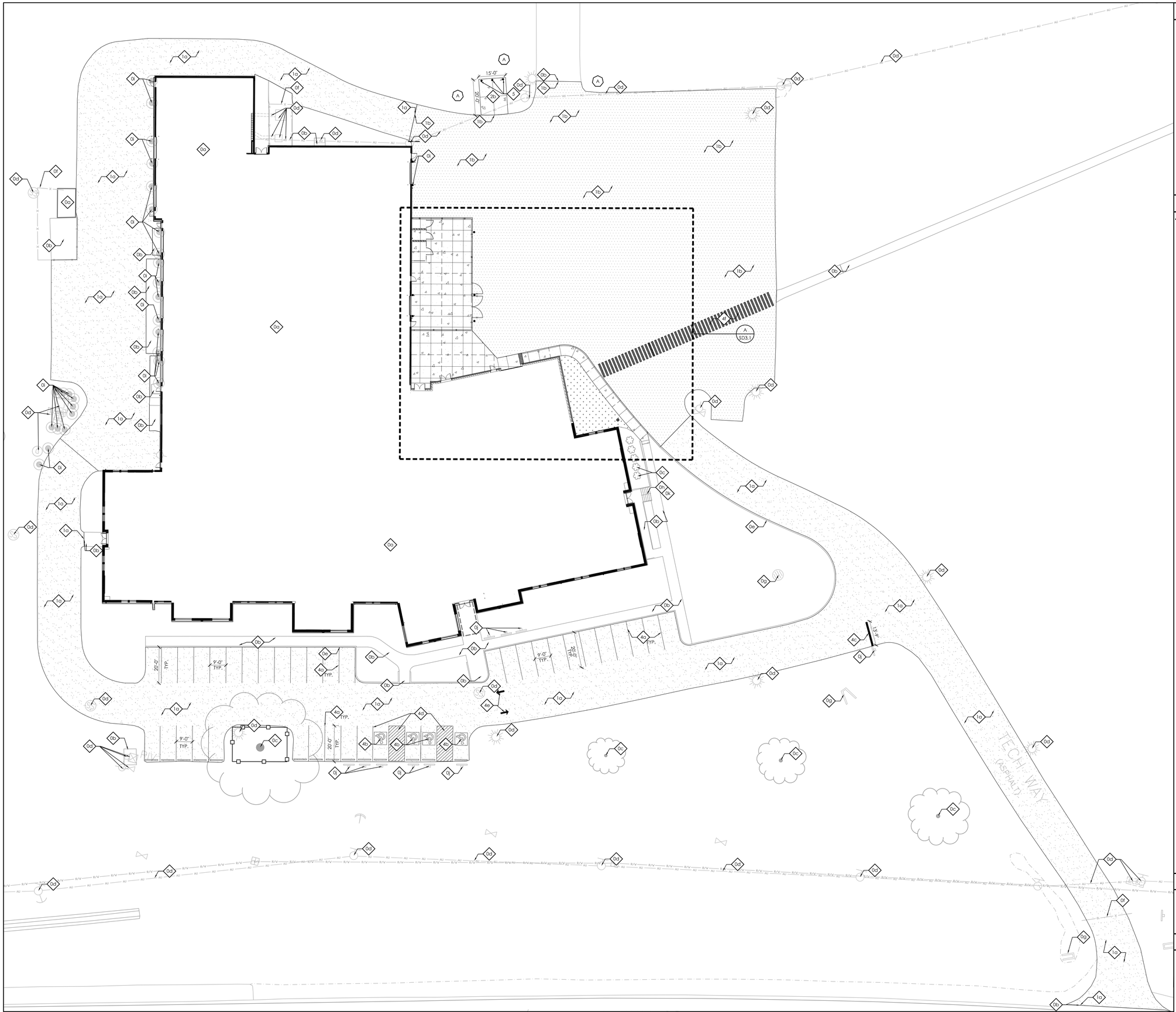

SITE LAYOUT & DEVELOPMENT PLAN

SCALE : 1"= 20'

0 20 40 Feet

A SD1.1

NORTH

GENERAL SITE NOTES

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SITE DEVELOPMENT TAGS

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- [c] TREE/VEGETATION TO REMAIN.
- [d] UTILITY TO REMAIN.
- [e] CURB TO REMAIN.
- [f] FENCING TO REMAIN.
- [g] STORM LINE/STRUCTURE TO REMAIN
- [h] STAIR TO REMAIN.
- [i] BOLLARD TO REMAIN.
- [j] SIGNAGE TO REMAIN
- [k] HANDRAIL TO REMAIN.

1 ASPHALT PAVEMENT (321216)
- [a] 1.5" OVERLAY OF EXISTING ASPHALT PAVING.
- [b] HEAVY DUTY ASPHALT PAVING. SEE DETAIL A/SD4.2.

2 CONCRETE PAVEMENT (321313, 321373)
- [a] 4" DEPTH CONCRETE PAVEMENT- SEE DETAIL B/SD4.2.
- [b] 8" DEPTH CONCRETE PAVEMENT. SEE DETAIL G/SD4.2.

3 CONCRETE CURB (321313, 321613, 321726)
- [a] CONCRETE SIDEWALK WITH TURNDOWN CURB. SEE DETAIL C/SD4.2.
- [b] 6" WIDTH HEADER CURB. SEE DETAIL L/SD4.2

4 PAINTED PAVEMENT MARKINGS. (321723.13)
- [a] 4" PAVING STRIPING, WHITE.
- [b] ACCESSIBLE PARKING STRIPING, SEE DETAIL F/SD4.2.
- [c] PAINTED TRAFFIC STOP BAR, 12'X12', WHITE.
- [d] 4" PAVING STRIPING, BLUE.
- [e] TRAFFIC ARROW, WHITE. SEE DETAIL D/SD4.2.
- [f] PAINTED CROSSWALK. SEE DETAIL M/SD4.2

5 CONCRETE FILLED BOLLARD (323136). SEE DETAIL E/SD4.2.

6 VINYL COATED CHAIN LINK FENCING. (323113)
- [a] 6'-0" HEIGHT FENCE. SEE DETAIL J/SD4.2.
- [b] 6'-0" HEIGHT BY 6'-0" PEDESTRIAN GATE. SEE DETAIL L/SD4.2.
- [c] 6'-0" HEIGHT BY 12'-0" VEHICULAR GATE. SEE DETAIL K/SD4.2

7 STRUCTURE. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- [a] BUILDING CANOPY.

8 UTILITY STRUCTURE. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- [a] NEW UTILITY.
- [b] SITE LIGHTING.

LANDSCAPE TAGS

A SEED AND MULCH/HYDROSEED PER SPECIFICATIONS. PROVIDE EROSION CONTROL NETTING PER SPECIFICATIONS.

B SOD PER SPECIFICATIONS. PROVIDE EROSION CONTROL NETTING PER SPECIFICATIONS.

LEGEND

- CONCRETE PAVEMENT
- OVERLAY EXISTING ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- IJ ISOLATION JOINT

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MARION COUNTY ATC - RENOVATION & ADDITION
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4. THE CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. MEASURES SHOULD BE TAKEN TO PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN ON SD0.1 FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.
6. REFER TO CONSTRUCTION MANAGER'S PLANS AND SPECIFICATIONS FOR INFORMATION REGARDING CONSTRUCTION SCHEDULE/SEQUENCING, CONSTRUCTION FENCING/STAGING.

SITE GRADING NOTES

1. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ACTUAL DEPTHS OF ALL EXISTING STORM DRAINS, GAS MAINS, WATER MAINS, AND PIPES TO ALL NEW CONNECTIONS AND CROSSINGS. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO AREAS WHERE CONSTRUCTION OR GRADING MAY INTERFERE WITH SUCH LINES.
2. ANY DISCREPANCIES BETWEEN THIS GRADING PLAN AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO EXCAVATION, GRADING, TRENCHING, OR OTHER CONSTRUCTION OF ANY SORT. FAILURE TO NOTIFY THE ARCHITECT IN WRITING PRIOR TO COMMENCEMENT OF EXCAVATION, GRADING, TRENCHING, OR OTHER CONSTRUCTION SHALL IMPLY THE CONTRACTOR'S VERIFICATION OF AND ACCEPTANCE OF EXISTING SITE CONDITIONS. SAID FAILURE TO NOTIFY THE ARCHITECT IN WRITING SHALL IDENTIFY AND HOLD HARMLESS THE OWNER FROM ANY ADDITIONAL COSTS INCURRED BY THE CONTRACTOR DUE TO DISCREPANCIES NOT REPORTED WHICH COULD HAVE BEEN DETECTED BY PRUDENT AND REASONABLE OBSERVATION AND VERIFICATION BY THE CONTRACTOR.
3. ALL IMPERVIOUS SURFACES SHALL BE GRADED AND INSTALLED WITH A MINIMUM SLOPE OF ONE PERCENT (1%) AND A MAXIMUM SLOPE OF SEVEN PERCENT (7%)
4. ALL PERVIOUS SURFACES SHALL BE GRADED AND INSTALLED WITH A MINIMUM SLOPE OF TWO PERCENT (2 %) AND A MAXIMUM SLOPE OF THIRTY-THREE PERCENT (33%) EXCEPT WHERE SHOWN.
5. SLOPE PERVIOUS SURFACES MIN. 2 % AND IMPERVIOUS SURFACES MIN. 1% AWAY FROM BUILDING FOUNDATIONS.
6. MAINTAIN GRADING TO PROMOTE POSITIVE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO POND IN CONSTRUCTION AREAS.
7. RELOCATE ALL BURIED UTILITIES THAT ARE IMPACTED BY ANY EARTHWORK. RELOCATED UTILITY LOCATIONS ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO STARTING WORK.
8. PROTECT AREAS TO BE SEEDED AS FOLLOWS:
   A) DITCHES AND DRAINAGE SWALES ARE TO RECEIVE HIGH-VELOCITY EROSION-CONTROL BLANKETS.
   B) SLOPES 4:1 (H:V) OR GREATER ARE TO RECEIVE LONG- TERM EROSION-CONTROL BLANKETS.
   C) SLOPES BETWEEN 4:1 AND 6:1 (H:V) ARE TO RECEIVE SHORT-TERM EROSION CONTROL BLANKETS.
   D) SLOPES BELOW 6:1 (H:V) ARE TO RECEIVE STRAW MULCH PER THE SPECIFICATIONS. DO NOT USE HAY.
9. ANY AREAS DISTURBED DURING CONSTRUCTION ARE TO BE RECONDITIONED, SEEDED AND MULCHED PER THE SPECIFICATIONS.
10. COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF THEIR STANDARD PROCTOR MAXIMUM DRY DENSITY AT PLUS OR MINUS TWO (2) PERCENT OF OPTIMUM MOISTURE CONTENT:
    A) UNDER FLOOR SLABS AND FOUNDATIONS ON STRUCTURAL FILL - 98%
    B) FILLS ON EXISTING SOILS, ROCK CUTS OR SHOT-ROCK FILL - 98%
    C) PAVED AREAS AND WALKS - 95%
    D) LANDSCAPE AREAS OUTSIDE MASS FILL AREAS - 85%
11. ALL TREES THAT ARE IDENTIFIED BY THE ARCHITECT TO REMAIN, EITHER ON THE DRAWING OR IN THE FIELD, ARE TO BE PROTECTED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL TREES LOCATED OUTSIDE OF AREAS IDENTIFIED TO BE RE-GRADED ARE TO BE PROTECTED IN ACCORDANCE WITH THE SPECIFICATIONS.
12. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION DEBRIS AND SEDIMENT ARE REMOVED DAILY FROM SITE DRIVEWAYS, PARKING AREAS, WALKWAYS AND SURROUNDING ROADWAYS AND WALKWAYS.
13. EXCESS SOILS ARE TO BE DISPOSED OF OFF-SITE UNLESS OWNER REQUESTS TO KEEP SATISFACTORY SOILS ON-SITE IN A LOCATION DETERMINED BETWEEN THE CONTRACTOR AND OWNER.
14. THE NEW PARKING, ROADS AND ROAD BASE ARE NOT DESIGNED TO ACCOMMODATE CONSTRUCTION TRAFFIC AND SHOULD NOT BE USED FOR SUCH UNLESS STABILIZED USING #2 CRUSHED STONE AND/OR GEO-GRID IN ADDITION TO THE PAVEMENT DESIGN SECTION SHOWN. IF THE CONTRACTOR WISHES TO USE THE NEW ROAD ALIGNMENTS DURING CONSTRUCTION, IT IS THE CONTRACTORS RESPONSIBILITY TO STABILIZE THE ROAD ALIGNMENT SUBGRADES AND PREVENT THEM FROM BEING DAMAGED DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A CRUSHED STONE ENTRY AND DRIVE TO REDUCE SOIL TRACKING. REFER TO EPSC PLAN.

SITE STORM DRAINAGE NOTES

1. DRAINAGE PIPE THAT CROSSES UNDER ROADS OR PARKING AREAS SHALL BE EITHER HIGH PERFORMANCE POLYPROPYLENE (HP-PP) OR REINFORCED CONCRETE (RCP). SEE PLANS FOR LOCATIONS. ALL PE PIPE SHALL BE DUAL WALL POLYETHYLENE PIPE WITH SMOOTH INTERIOR WALL, OR EQUIVALENT AS APPROVED IN THE SPECIFICATIONS. ALL STORM PIPING SHALL BE INSTALLED AT A CONSTANT, POSITIVE SLOPE FROM INLET CONNECTION TO DISCHARGED CONNECTION. PIPE SLOPE IS TO BE 0.5% MINIMUM.
2. SEDIMENT PROTECTION DEVICES, SUCH AS SILT FENCING SHALL BE INSTALLED IN AND/OR AROUND ALL STORM STRUCTURES.
3. EROSION CONTROL BLANKETS ARE TO BE INSTALLED AS INDICATED IN THE SPECIFICATIONS.
4. ALL STORM STRUCTURES ARE TO BE DESIGNED FOR H-20 LOADING.
5. ALL GRATES AND MANHOLE COVERS ARE TO BE HEAVY DUTY CAST IRON DESIGNED FOR H-20 LOADING.
6. MAINTAIN GRADING TO PROMOTE POSITIVE DRAINAGE AT ALL TIMES.
7. ALL ROOF DRAINS AND DOWNSPOUTS, INCLUDING CANOPY DOWNSPOUTS, ARE TO BE PIPED UNDERGROUND AND CONNECTED TO STORM WATER STRUCTURES. DOWNSPOUT BOOT AND DOWNSPOUT SIZES ARE TO BE COORDINATED WITH THE MANUFACTURERS AND INSTALLERS OF EACH ITEM. CLEANOUTS ARE TO BE LOCATED AT EACH CHANGE IN DIRECTION OF THE PIPING. ENSURE CLEANOUTS ARE DESIGNED FOR AUTOMOBILE TRAFFIC, AND ARE FLUSH WITH THE SURROUNDING SURFACES.
8. THE LOCATIONS SHOWN FOR THE NEW STORM SEWER PIPING AND STRUCTURES ARE APPROXIMATE. ACTUAL LOCATIONS CAN BE ADJUSTED WITH ARCHITECTS WRITTEN APPROVAL IN ORDER TO AVOID UNFORESEEN CONDITIONS OR OTHER CONSTRUCTION CONFLICTS. CONTRACTOR IS TO COORDINATE STORM SEWER INSTALLATION WITH ALL OTHER TRADES AND WORK.

LEGEND

- (DS-#) DRAINAGE STRUCTURE. REFER TO STORM DRAINAGE STRUCTURE SCHEDULE.
- (D.S.) DOWNSPOUT BOOT (334993). SEE DETAIL D/SD4.1
- (C.D.) CONDENSATE DRAIN. REFER TO MECHANICAL AND ARCHITECTURE PLANS FOR ADDITIONAL INFORMATION.

SPOT ELEVATION LEGEND

TC - TOP OF CURB
BC - BOTTOM OF CURB
FFE - FINISHED FLOOR ELEVATION
EP - EDGE OF PAVEMENT

SITE GRADING & DRAINAGE PLAN

SCALE: 1"= 20'

0 20 40 Feet

A SD2.1

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SITE GRADING & DRAINAGE PLAN
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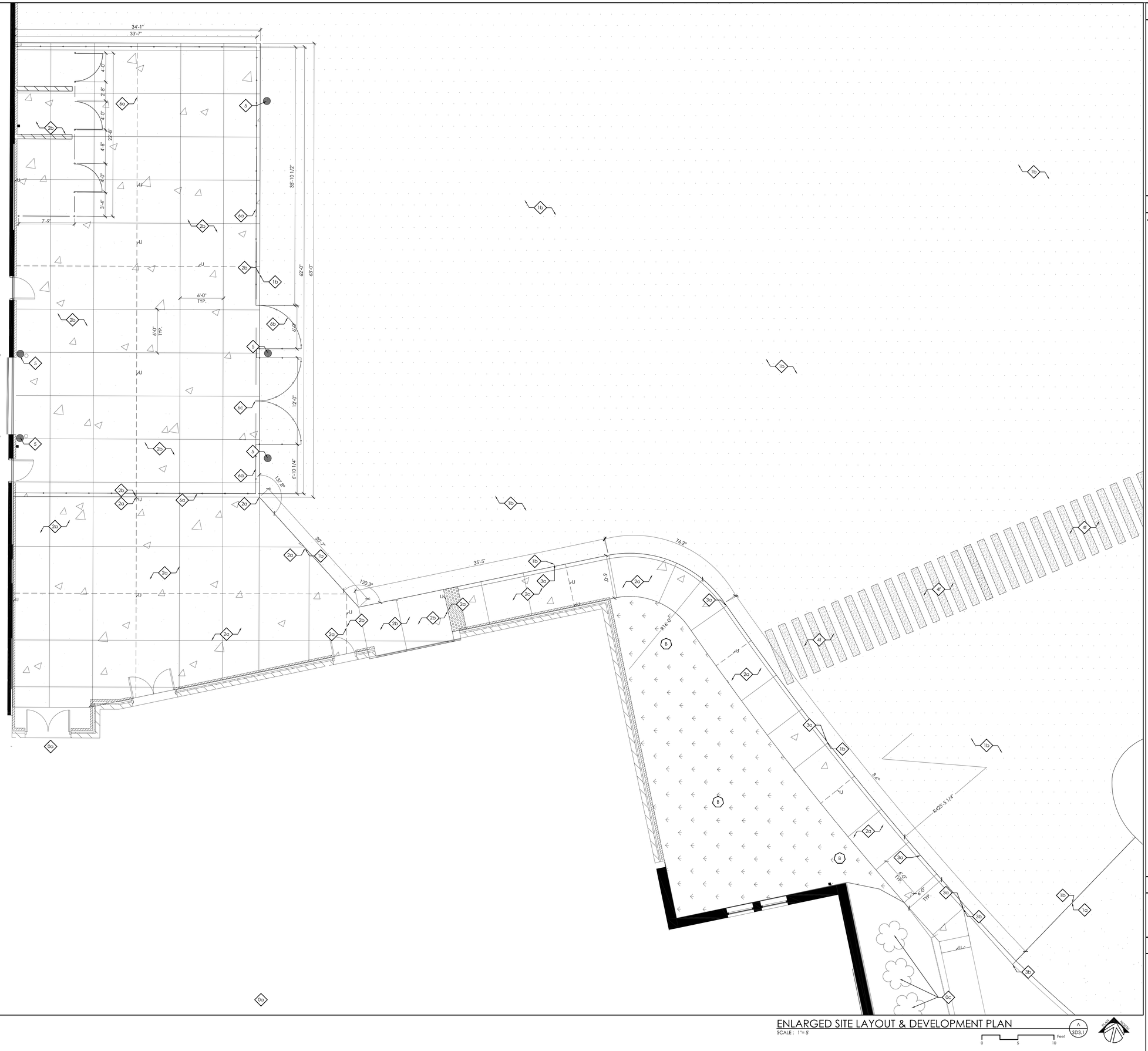

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4. THE CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. MEASURES SHOULD BE TAKEN TO PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN ON SD0.1 FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.
6. REFER TO CONSTRUCTION MANAGER'S PLANS AND SPECIFICATIONS FOR INFORMATION REGARDING CONSTRUCTION SCHEDULE/SEQUENCING, CONSTRUCTION FENCING/STAGING.

SITE DEVELOPMENT TAGS

0 EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- [a] BUILDING TO REMAIN. NO UTILITIES TO THESE FACILITIES ARE TO BE REMOVED UNLESS NEW PERMANENT UTILITY IS PROVIDED PRIOR TO DEMOLITION.
- [b] PAVEMENT TO REMAIN - PATCH/REPAIR WHERE DAMAGED BY CONSTRUCTION. SAW-CUT TO PROVIDE CLEAN EDGE. CONCRETE PAVING TO BE SAW-CUT BACK TO NEAREST UNDAMAGED CONTROL OR ISOLATION JOINT. MATCH NEW ADJACENT PAVEMENT TO EXISTING PAVEMENT ELEVATIONS
- [c] TREE/VEGETATION TO REMAIN.
- [d] UTILITY TO REMAIN.
- [e] CURB TO REMAIN.
- [f] FENCING TO REMAIN.
- [g] STORM LINE/STRUCTURE TO REMAIN
- [h] STAIR TO REMAIN.
- [i] BOLLARD TO REMAIN.
- [j] SIGNAGE TO REMAIN
- [k] HANDRAIL TO REMAIN.

1 ASPHALT PAVEMENT (321216)
- [a] 1.5" OVERLAY OF EXISTING ASPHALT PAVING.
- [b] HEAVY DUTY ASPHALT PAVING. SEE DETAIL A/SD4.2.

2 CONCRETE PAVEMENT (321313, 321373)
- [a] 4" DEPTH CONCRETE PAVEMENT- SEE DETAIL B/SD4.2.
- [b] 8" DEPTH CONCRETE PAVEMENT. SEE DETAIL, G/SD4.2.

3 CONCRETE CURB (321313, 321613, 321726)
- [a] CONCRETE SIDEWALK WITH TURNDOWN CURB. SEE DETAIL C/SD4.2.
- [b] 6" WIDTH HEADER CURB. SEE DETAIL L/SD4.2

4 PAINTED PAVEMENT MARKINGS. (321723.13)
- [a] 4" PAVING STRIPING, WHITE.
- [b] ACCESSIBLE PARKING STRIPING, SEE DETAIL F/SD4.2.
- [c] PAINTED TRAFFIC STOP BAR, 12'X12', WHITE.
- [d] 4" PAVING STRIPING, BLUE.
- [e] TRAFFIC ARROW, WHITE. SEE DETAIL D/SD4.2.
- [f] PAINTED CROSSWALK. SEE DETAIL M/SD4.2

5 CONCRETE FILLED BOLLARD (323136). SEE DETAIL E/SD4.2.

6 VINYL COATED CHAIN LINK FENCING. (323113)
- [a] 6'-0" HEIGHT FENCE. SEE DETAIL J/SD4.2.
- [b] 6'-0" HEIGHT BY 6'-0" PEDESTRIAN GATE. SEE DETAIL L/SD4.2.
- [c] 6'-0" HEIGHT BY 12'-0" VEHICULAR GATE. SEE DETAIL K/SD4.2

7 STRUCTURE. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- [a] BUILDING CANOPY.

8 UTILITY STRUCTURE. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- [a] NEW UTILITY.
- [b] SITE LIGHTING.

LANDSCAPE TAGS

A SEED AND MULCH/HYDROSEED PER SPECIFICATIONS. PROVIDE EROSION CONTROL NETTING PER SPECIFICATIONS.

B SOD PER SPECIFICATIONS. PROVIDE EROSION CONTROL NETTING PER SPECIFICATIONS.

LEGEND

- CONCRETE PAVEMENT
- OVERLAY EXISTING ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- IJ ISOLATION JOINT

ENLARGED SITE LAYOUT & DEVELOPMENT PLAN

SCALE: 1"= 5'

0 5 10 Feet

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101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

NOT FOR CONSTRUCTION

SITE LAYOUT & DEVELOPMENT PLAN
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No:	25015
Drawn By:	SBP
Rev'd By:	MM/DS

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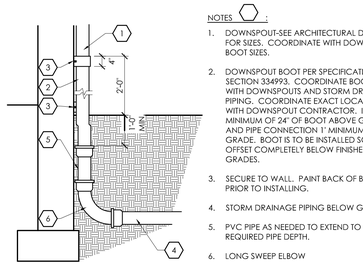
DESIGN DEVELOPMENT

SD3.1

SITE LAYOUT AND DEVELOPMENT PLAN
DATE ISSUED:
12/04/2025



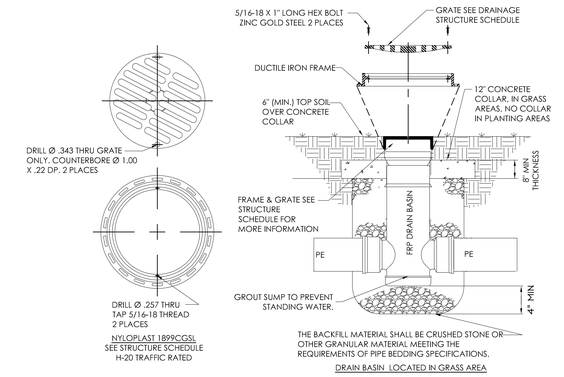
NOTES ⬡ :

1. DOWNSPOUT-SEE ARCHITECTURAL DRAWINGS FOR SIZES. COORDINATE WITH DOWNSPOUT BOOT SIZES.
2. DOWNSPOUT BOOT PER SPECIFICATION SECTION 334993. COORDINATE BOOT SIZES WITH DOWNSPOUTS AND STORM DRAINAGE PIPING. COORDINATE EXACT LOCATIONS WITH DOWNSPOUT CONTRACTOR. INSTALL A MINIMUM OF 24" OF BOOT ABOVE GRADE AND PIPE CONNECTION 1' MINIMUM BELOW GRADE. BOOT IS TO BE INSTALLED SO THAT OFFSET COMPLETELY BELOW FINISHED GRADES.
3. SECURE TO WALL. PAINT BACK OF BOOT PRIOR TO INSTALLING.
4. STORM DRAINAGE PIPING BELOW GRADE.
5. PVC PIPE AS NEEDED TO EXTEND TO REQUIRED PIPE DEPTH.
6. LONG SWEEP ELBOW

DOWNSPOUT BOOT

SCALE : 3/4" = 1'-0"

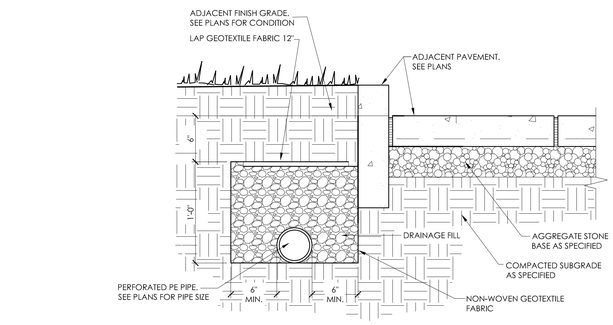
C SD4.1



DRAIN BASIN DETAILS

SCALE : N.T.S.

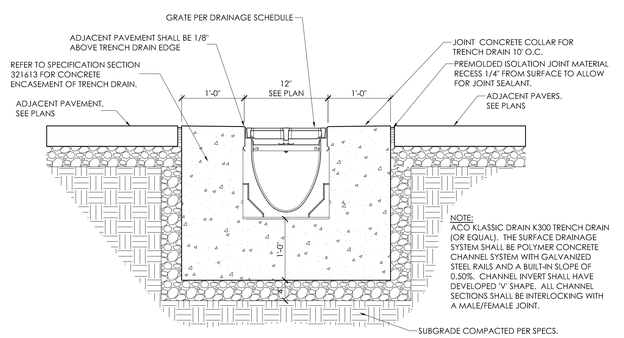
B SD4.1



FRENCH DRAIN

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

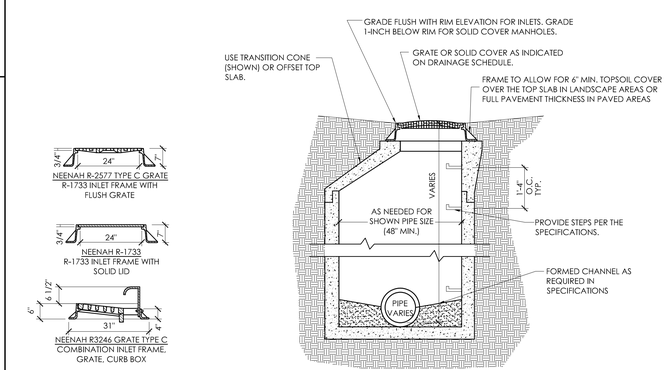
E SD4.1



TRENCH DRAIN

SCALE : N.T.S.

D SD4.1



NOTE:

1. REFER TO DRAINAGE SCHEDULE FOR STRUCTURE SIZES.

2. PIPE ORIENTATION SHOWN IS FOR TYPICAL CONSTRUCTION ONLY. ACUTAL PIPE LOCATIONS, SIZES AND ORIENTATIONS MAY DIFFER. REFER TO PROJECT DRAWINGS FOR PIPE INFORMATION.

MANHOLE/SURFACE INLET (TYP)

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

A SD4.1

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SITE DETAILS

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LEBANON, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
Lexington, KY Office
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Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No: 25015
Drawn By: SBP
Rev'd By: MM/DS

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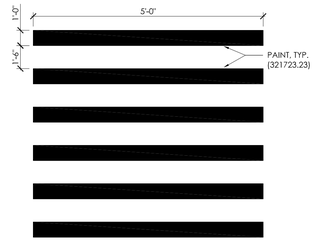
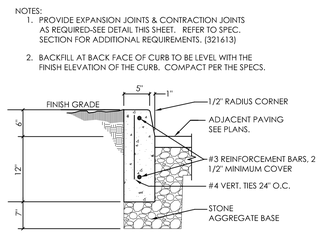


PAINTED CROSS WALK (321723.23)

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

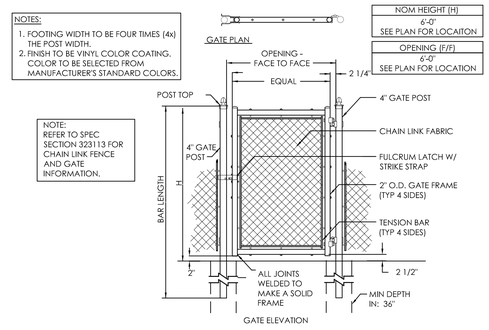
M SD4.2



CONCRETE HEADER CURB (321613)

SCALE : 1" = 1'-0"

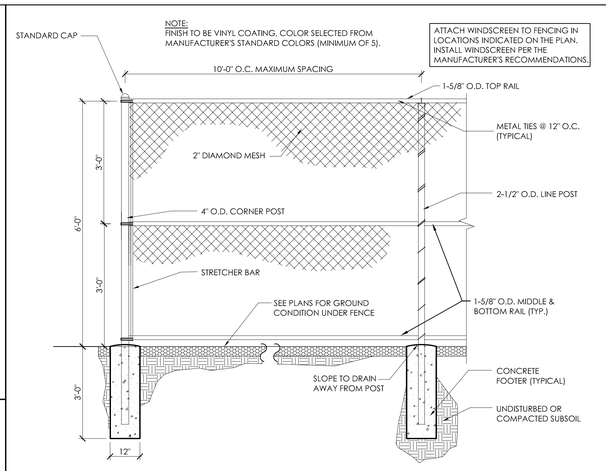
L SD4.2



VINYL COATED CHAIN LINK PEDESTRIAN GATE (323113)

SCALE : N.T.S.

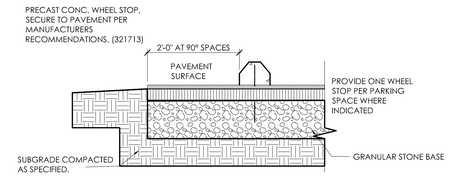
K SD4.2



6' HEIGHT VINYL COATED CHAIN LINK FENCE (323113)

SCALE : N.T.S.

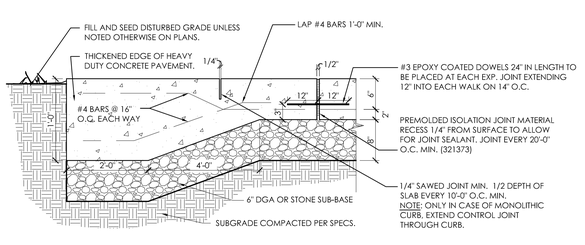
I SD4.2



CONCRETE WHEEL STOP (321713)

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

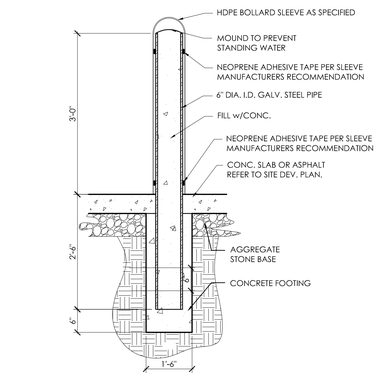
H SD4.2



HEAVY DUTY CONCRETE PAVEMENT (321313)

SCALE : N.T.S.

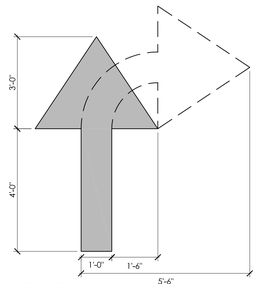
G SD4.2



CONCRETE FILLED BOLLARD (323136)

SCALE : N.T.S.

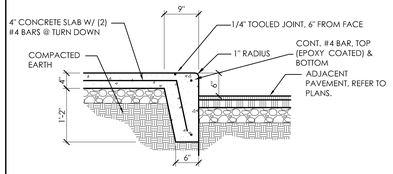
E SD4.2



TRAFFIC ARROW

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

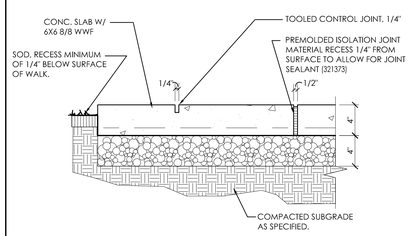
D SD4.2



CONCRETE WALK WITH TURN DOWN

SCALE : 3/4" = 1'-0"

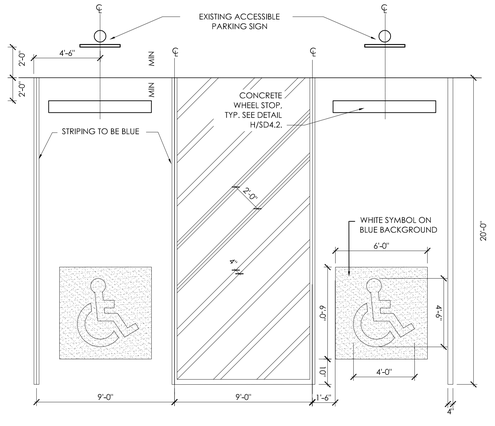
C SD4.2



CONCRETE SIDEWALK (321313)

SCALE : 3/4" = 1'-0"

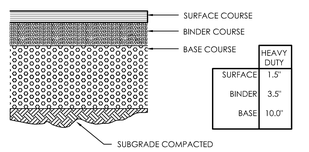
B SD4.2



ACCESSIBLE PAVEMENT MARKING

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

F SD4.2



ASPHALT PAVEMENT (321216)

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

A SD4.2

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SITE DETAILS

MARION COUNTY ATC - RENOVATION & ADDITION
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LEBANON, KENTUCKY

M.E.&P Engineer:
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p 615.255.5537

BG 25-341

Project No:	25015
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Rev'd By:	MM/DS

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DESIGN DEVELOPMENT

SD4.2

DATE ISSUED:
12/04/2025

STRUCTURAL NOTES

THE STRUCTURAL NOTES DEFINE GENERAL DESIGN AND MATERIAL REQUIREMENTS AND ARE INTENDED TO SUPPLEMENT, BUT NOT REPLACE, THE PROJECT SPECIFICATIONS

DESIGN CRITERIA

1. Building Code: 2018 Kentucky Building Code and ASCE 7-10
   (except Chapter 14 and Appendix 11A)

   1.1 Building Risk Category: III

2. Design Loads

   2.1 Uniform Floor Live Loads (reduced per Building Code, UNO)

   Corridors:
   - Lobbies/1st Floor Corridors 100 psf
   Classrooms 40 psf

   2.2 Roof Loads

   2.2.1 Uniform Roof Live Load 20 psf (reduced per Bldg. Code)
   Concentrated Roof Live Load 300 lbs

   2.2.2 Snow Loads: Ground Snow, Pg = 15 psf with drift loads per Code
   Terrain Category = C
   Snow Exposure Factor, Ce = 1.0
   Snow Load Importance Factor, I = 1.1
   Slope Factor, Cs = 1.0
   Thermal Factor: Heated Spaces, Ct = 1.0
   Flat-roof Snow Load: Heated Spaces, Pf = 16.6 psf
   Rain-on-Snow Surcharge: 5 psf (where applicable)

   2.2.3 Rain Loads: Rain Intensity, i = 5.8 in/hr (15-min duration/ 100 yr MRI)
   Rain Load, R = 38.9 psf

   2.3 Wind Loads
   Basic Wind Speed V(ult) = 120 mph; V(asd) = 93 mph
   Wind Exposure = C
   Internal Pressure Coefficient, GCpi = +/-0.18 (Enclosed Building)

   2.4 Earthquake Loads
   Seismic Importance Factor, I = 1.25
   Mapped Spectral Response Accelerations, Ss and S1 = 0.19 and 0.10
   Site Class: C
   Spectral Response Coefficients, Sds and Sd1 = 0.15 and 0.12
   Seismic Design Category: B
   Basic Seismic-Force-Resisting System:
   Design Base Shear:
   Seismic Response Coefficient, Cs = 0.__
   Response Modification Factor, R = _.__
   Analysis Procedure: Equivalent Lateral Force Procedure

3. Structural Engineer is not responsible for the design of handrails, cold-formed steel framing, or other systems not shown in the Structural Documents. Such systems shall be designed, furnished, and installed as required by other portions of the Construction Documents.

4. No explicit provisions have been made for future building expansion.

GENERAL

1. Reference to standards or specifications of technical societies, organizations, or associations means the standard or specification referenced by the governing Building Code shown on the Drawings, unless specifically noted otherwise.

2. Material, workmanship, and design shall conform to the referenced Building Code.

3. For dimensions not shown in the Structural Drawings, see the Architectural Drawings.

4. Contractor responsibilities include, but are not limited to, the following:

   4.1 Coordinate the Structural Documents with the Architectural, Mechanical, Electrical, Plumbing, and Civil Documents. Architect/Structural Engineer shall be notified of any discrepancy or omission prior to installation of associated work.

   4.2 Coordinate Structural Documents with Architectural and MPE Documents for location and quantity of miscellaneous framing for items such as roof drains, suspended or supported mechanical units, window washing roof anchors, etc. Refer to Architectural and MPE Documents for additional miscellaneous structural elements that may not appear in the Structural Documents.

   4.3 Equipment/Framing Verification

   4.3.1 Mechanical Equipment: Submit actual weights of equipment to be used for review at least 3 weeks prior to fabrication and construction. Coordinate opening sizes and locations with Mechanical Contractor.

   4.3.2 Miscellaneous Framing: Verify framing shown on the Structural Drawings for mechanical equipment, Owner-furnished items, partitions, etc. is consistent with the requirements of such items.

   4.4 The structure is stable only in its completed form. Temporary supports required for stability during all intermediate stages of construction shall be designed, furnished, and installed by the Contractor.

   4.5 Contractor has sole responsibility for jobsite safety and complying with all health and safety precautions as required by any regulatory agency. In performing construction observation visits to the jobsite, the Structural Engineer will have no control over, nor responsibility for, the Contractor's means, methods, sequences, techniques, or Procedures in performing the work.

   4.6 Contractor is responsible for locating concrete reinforcement prior to the installation of post-installed anchors, through bolts, or other post-installed items in concrete. Existing reinforcement, including post-tensioning tendons, shall not be damaged during installation.

5. Existing and Unforeseen Conditions

   5.1 Contractor shall field verify all existing conditions, elevations, and site conditions prior to construction and fabrication. Contractor shall immediately notify Structural Engineer of any existing conditions that are in conflict with the Structural Documents.

   5.2 Shop drawing submittals shall be based on field verified dimensions and conditions only. Contractor shall clearly show actual field dimensions on shop drawings.

   5.3 Existing dimensions, elevations, and other information shown in the Structural Drawings are based on the following Documents:
   Marion County Vocational School drawings provided by Luckett & Farley Inc. Architects, dated February, 1966
   Marion County Area Technology Center Addition and Renovation drawings provided by Rosstarrant Architects, dated July, 2009

SUBMITTALS

1. Shop Drawings and Submittals

   1.1 Reproduction of Structural Drawings for shop drawings is not permitted.

   1.2 Electronic drawing files will not be provided to the Contractor.

   1.3 Review of shop drawings will be for conformance with the Construction Documents regarding arrangement and sizes of members and the Contractor's interpretation of the design loads, if applicable, and Construction Document details. Such review shall not relieve the Contractor of the full responsibility to comply with the Construction Documents.

2. Submittals

   2.1 The Structural Quality Assurance Plan and Specifications identify the required submittals. Prior to (or with) the first submittal, Contractor shall submit a list of all required submittals for Engineer's review.

   2.2 Email all submittals to submittals@sdg-structure.com

3. Deferred Submittals

   3.1 Deferred Submittals include those portions of the project that are furnished by the Contractor and designed by someone other than the Engineer of Record and are submitted at the time of the application. Deferred Submittals shall be submitted to the Building Official prior to fabrication and installation.

   3.2 Submittal documents for Deferred Submittals:

   3.2.1 Shall be included in the Contractor's scope of services and shall be sealed by an Engineer licensed in the project state. Design of Deferred Submittals shall be in accordance with the governing Building Code indicated above.

   3.2.2 Shall be submitted to the registered design professional in responsible charge who shall review them and forward to the Building Official with a notation indicating the deferred submittal documents have been reviewed and that they have been found in general conformance with the design of the building. Deferred submittal items shall not be installed until the design and submittal documents have been approved by the Building Official.

   3.3 The following shall be considered Deferred Submittals:
   Temporary/Permanent Shoring and Underpinning
   Steel Connections - See "Structural Steel" Section
   Steel Joists
   Rooftop Unit Anchorage
   Rooftop Unit Curb Anchorage
   Guardrails/Handrails

FOUNDATION

1. Geotechnical Report: No Geotechnical Report has been provided.
   The following information is based on the provided existing drawings.

   1.1 It is recommended that the Contractor become familiar with the subsurface conditions that will be encountered and obtain a copy of the geotechnical report and any supplemental reports. The report(s) may be included as a reference document within the construction documents. Otherwise the Contractor should contact the Owner to obtain a copy of the report(s).

2. Building Pad Preparation

   2.1 Strip vegetation and topsoil.

   2.2 Proofroll building areas with a minimum of two complete coverages of a loaded dump-truck or scraper in each of two perpendicular directions. Replace soft areas with compacted structural fill.

3. Soil Bearing Capacity: Isolated Footings 3,000 psf
   Continuous Footings 3,000 psf

   3.1 Footings shall not bear on rock. Remove rock, if any, for a depth of 2 feet below footing bearing elevation.

REINFORCEMENT

1. Reinforcing Bars: ASTM A615, Grade 60

   1.1 Reinforcing bars are not to be welded.

2. Welded Wire Reinforcement (WWR): ASTM A1064, 8-in minimum side and end laps

3. Reinforcement Placement (UNO)

   3.1 Concrete Reinforcement Clear Cover

Below Grade:	Unformed	3-in
	Formed	2-in
Slabs on Ground		See details

   3.2 Masonry reinforcing steel: Place in the center of CMU cells, unless otherwise noted in Drawings.

4. Reinforcement Splices

   4.1 Reinforcement marked "Continuous" can be spliced at locations determined by Contractor. All other reinforcement shall be spliced only at locations shown or noted, unless approved in writing by Structural Engineer.

   4.2 Splice Lengths (UNO)
   Concrete Reinforcement: Class B Tension Lap
   Masonry Reinforcement: See CMU Lap Splice Tables in Drawings

CAST-IN-PLACE CONCRETE

1. Concrete Properties

   1.1 Normal Weight Structural Concrete

Member	28-day Strength f'c (psi)	Exposure Category F	S	W	C	Max. w/cm Ratio	Air Content +/-1.5%	Max. Nom. Aggregate Size
Footings	3,000	F0	S0	W1	C0	----	----	1-in
Slabs-on-Ground	3,500	F0	S0	W0	C0	0.48	----	3/4-in
Lean Concrete	1,500	F3	S3	W1	C2	0.40	5%	3/4-in
Other Structural Concrete	5,000	F3	S3	W1	C2	0.40	5%	3/4-in

2. Construction Joint Locations: No horizontal construction joints are permitted except as shown on the Structural Drawings. Obtain written consent for additional joints.

CAST-IN-PLACE CONCRETE, CONTINUED

3. Pipes or ducts shall not exceed one-third the slab or wall thickness unless specifically detailed. See mechanical and electrical drawings for location of sleeves, accessories, etc.

   3.1 Conduit shall not be placed within the slab on ground. Conduit shall be installed below the slab on ground within the granular subbase.

4. Curing

   4.1 Begin curing procedures immediately following commencement of the finishing operation.

   4.2 Concrete shall be moist cured in accordance with ACI 308. See Specification for additional information.

   4.3 All concrete slabs that are to have exposed stained or polished concrete finish shall be wet cured a minimum of 7 days in strict accordance with ACI 301. The acceptable methods of wet curing are ponding, continuous fogging, continuous sprinkling; or application of mats or fabric kept continuously wet.

CONCRETE MASONRY

1. Specified Compressive Strength, f'm = 2,000 psi

2. Concrete Masonry Units

   2.1 Minimum Net Area Compressive Strength of Masonry Unit: 2,000 psi
   (ASTM C90 w/ Type M or S Mortar)

   2.2 Weight: Medium weight

3. Mortar: Walls below grade Type M
   Bearing walls Type M or S
   Partition walls Type N

4. Coarse Grout: 2,500 psi min. compressive strength conforming to ASTM C476.

   4.1 Grout solid bond beams, reinforced CMU cores, and CMU cores and wall cavities below grade.

   4.2 Masonry webs on each side of grouted cells shall be fully mortared. Exterior single wythe CMU walls shall have head joints fully mortared.

5. Horizontal Joint Reinforcement, UNO: Two (2) No. 9 gage longitudinal wires at 16-in vertically. Lap wire 6 inches minimum. Provide accessories for corners, intersections, etc. Use ladder type for walls with vertical reinforcing.

6. Provide open bottom beam block units with 3-in deep minimum web openings at horizontal reinforcement locations not located over an opening. A minimum clear space of one bar diameter shall be provided between the reinforcing bars and the face of masonry units.

7. CMU has been designed assuming "running bond" placement. Do not use "stack bond" unless approved by Structural Engineer.

8. Contraction Joints: Unless noted otherwise on the Plans, maximum spacing of 1 1/2 times of wall height or 24 feet (whichever is less) in all concrete masonry walls (including partitions) above grade.

9. Dovetail Anchors: At 16-in vert., UNO, where CMU walls abut concrete surfaces.

10. Submit written construction procedures prior to the start of masonry construction.

11. Grout fill beam and joist pockets in masonry walls after welds are inspected.

12. Contractor shall submit drawings coordinated with masonry and MPE contractors indicating the MPE penetrations through load bearing and non-load bearing walls. These drawings shall indicate the size and location of all penetrations and shall be submitted to the Architect/Structural engineer prior to installation.

STRUCTURAL STEEL

1. Steel Shapes

   1.1 W-Shapes: ASTM A992, Grade 50

   1.2 Angles, Channels, Plates, UNO: ASTM A36

   1.3 Square/Rectangular/Round Hollow Structural Sections (HSS): ASTM A500, Grade B

2. Anchor Rods, Bolts, and Studs

   2.1 Anchor Rods: ASTM F1554, Grade 36. Headed Rods or threaded rods with plate washer and heavy hex nut.

   2.2 Bolts: 3/4-in Diameter A325 minimum. All connections may be bearing type, UNO. Design bearing type connections for load values with threads included in the shear plane. Submit proposed bolt tightening procedure for review.

   2.3 Headed Studs: AWS D1.1. See Details for Diameter, Length and Spacing. Length given is in-place length after burn-off.

3. Structural steel shall be fabricated and erected according to the "Specification for Structural Steel Buildings" referenced in the referenced Building Code.

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SDG Project No: 2018-17120

STRUCTURAL NOTES
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
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BG

Project No: 25015
Drawn By: CH/DH/RP
Rev'd By: CA/LG

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STRUCTURAL NOTES

DATE ISSUED:
NOVEMBER 7, 2025

STRUCTURAL NOTES CONTINUED

STRUCTURAL STEEL, CONTINUED

4. Connections shall be detailed based on the design information provided in the Structural Documents.

   4.1 Standard Shear Connections: Detail as bolted or welded double-angle, single-plate, single-angle, or tee connections in accordance with the connection tables in the "Manual of Steel Construction" referenced in the referenced Building Code.

      4.1.1 Shear connections not defined in the AISC Manual shall be designed by an Engineer licensed in the project state. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by the Engineer, completed prior to and submitted with the Structural Steel Shop Drawings.

   4.2 Welded Connections: Prequalified welded joints in accordance with AISC and the Structural Welding Code of the American Welding Society; "Non-prequalified joints" shall be qualified prior to fabrication.

   4.3 Factored Design Forces/Reactions: As shown on the Structural Drawings or, if not shown, the factored design reaction shall be half of the "Maximum Total Uniform Load (LRFD)" tabulated in the "Manual of Steel Construction" referenced in the referenced Building Code.

   4.4 Steel connections not specifically detailed in the Structural Drawings shall be designed by the Contractor. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by an Engineer licensed in the project state, completed prior to and submitted with the Structural Steel Shop Drawings.

   4.5 Axial Tension Strength of Connections

      4.5.1 Where steel beams are non-composite and at roof deck areas, beam and girder end connections shall have a minimum nominal axial tensile strength equal to five percent of the required shear strength for LRFD.

5. Shop Drawings: Submittal shall adequately depict structural members and connections.

6. Welders shall be qualified for the work performed in accordance with AWS D1.1. Welder qualifications shall be certified by the local building authority and verified by the Contractor and the Special Inspector.

7. Galvanizing

   7.1 Galvanize environmentally exposed steel, for example mechanical equipment supports and screen walls.

   7.2 Galvanized members shall have proper treatment performed to accept paint.

   7.3 Touch-up welds and abrasions in galvanized members in accordance with ASTM A780.

8. Shelf Angles Supporting Masonry Veneer

   8.1 All shelf angles supporting exterior building veneer are to be galvanized. Touch-up welds and abrasions in accordance with ASTM A780.

   8.2 Galvanized brick lintel angles receiving paint shall have proper treatment performed to accept paint.

   8.3 Sections and details presented in the structural documents may not be construed as defining the elevation of shelf angles. Elevations of shelf angles must be coordinated with the architectural drawings to ensure shelf angles are positioned at the proper elevation for masonry coursing.

   8.4 Contractor shall submit elevations and plans depicting all masonry shelf angles and their respective elevations for approval by the architect and structural engineer prior to construction.

POST-INSTALLED ANCHORS

1. Post-installed anchors shall only be installed where indicated on the structural drawings, unless approved by engineer of record.

2. The below products are the design basis for this project. Product diameter and embedment shall be as shown in the details. Install products in accordance with the Manufacturer's Printed Installation Instructions (MPII). Refer to the project building code and/or evaluation report for special inspections and proof load requirements. Substitution requests for products other than those listed below may be submitted by the contractor to the Engineer-of-Record (EOR)for review. Substitutions will only be considered for products having a research report recognizing the product for the appropriate application under the project building code. Substitution requests shall include calculations that demonstrate the substituted product is capable of achieving the equivalent performance values of the design basis product.

3. For Anchoring into Concrete

   3.1 Expansion Anchors: Hilti Kwik Bolt TZ (ICC-ES ESR-1917), Simpson Strong-Bolt 2 (ICC-ES ESR-3037), DeWalt/Powers Power-Stud+ SD1 (ICC-ES ESR-2818), or DeWalt/Powers Power-Stud+ SD2 (ICC-ES ESR-2502).
   Minimum embedment = 6 times anchor diameter, UNO.

   3.2 Screw Anchors: Simpson Titen-HD (ICC-ES ESR-2713), DeWalt Screw Bolt+ (ICC-ES ESR-3889), or Hilti Kwik HUS (KH-EZ) (ICC-ES ESR-3027).
   Minimum Embedment = 6 times anchor diameter, UNO.

   3.3 Adhesive Anchors

      3.3.1 Adhesive anchors shall be installed in concrete having a minimum age of 21 days at time of anchor installation.

      3.3.2 Adhesive anchors identified in the drawings as installed in a horizontal or upwardly inclined orientation to resist sustained tensile loads shall be installed by certified installers.

      3.3.3 All-thread steel rods conforming to ASTM A36 or bolts conforming to ASTM A307, Grade A (both zinc plated in accordance with ASTM B633), or reinforcing bars conforming to ASTM A615, Grade 60.

      3.3.4 Adhesive for rebar and anchors shall have been tested in accordance with ACI 355.4 and ICC-ES AC308 for cracked concrete and seismic applications. Design bond strength has been based on CRACKED CONCRETE, ACI 355.4 temperature category B, and installations into dry holes drilled using a hammer drill into concrete that has cured for at least 21 days. Adhesive anchors shall be installed by a certified adhesive anchor installer PER ACI 318 17.8.2.2 where INDICATED on the contract documents. Installations requiring certified installers shall be inspected per ACI 318 17.8.2.4.

      3.3.5 Adhesive conforming to Simpson AT-3G (ICC-ES ESR-5026), Simpson SET-3G (ICC-ES ESR-4057), DeWalt/Powers Pure110+ (ICC-ES ESR-3298), DeWalt/Powers DeWalt AC200+ Adhesive (ICC-ES ESR-4027), Hilti HIT-HY 200 SafeSet Fast Cure Adhesive (ICC-ES ESR-3187), Hilti HIT-RE 500 V3 SafeSet Adhesive (ICC-ES ESR-3814).
      Minimum Embedment = 12 times anchor diameter, UNO.

4. For Anchorage into Solid Grouted Concrete Masonry

   4.1 Expansion Anchors: Hilti Kwik Bolt 3 (ICC-ES ESR-1385), Simpson Strong-Bolt 2 (IAPMO-UES ER-240), Simpson Wedge-All (ICC-ES ESR-1396) or DeWalt/Powers Power-Stud+ SD1 (ICC-ES ESR-2966).
   Minimum embedment = 6 times anchor diameter, UNO.

   4.2 Screw Anchors: Simpson Titen-HD (ICC-ES ESR-1056) or DeWalt Screw-Bolt+ (ICC-ES ESR-4042), Hilti Kwik HUS (HS-EZ) (ICC-ES ESR-3056).
   Minimum Embedment = 6 times anchor diameter, UNO.

   4.3 Adhesive Anchors: Adhesive conforming to Simpson SET-3G (ICC-ES ESR-4844), DeWalt/Powers AC100+ Gold (ICC-ES ESR-3200), Hilti HIT-HY 70 Fast Cure Adhesive (ICC-ES ESR-2682).
   Minimum Embedment = 6 times anchor diameter, UNO.

5. Contractor shall arrange for an anchor manufacturer's representative to provide onsite installation training for all of their anchoring products specified. The structural Engineer of record must receive documented confirmation that all of the contractor's personnel who install anchors are trained prior to the commencement of anchor installation.

STEEL JOISTS

1. Steel Joists, Bridging, and Connections: Designed, fabricated, and erected according to Specifications of the Steel Joist Institute (SJI).

   1.1 Bridging shall be designed to fully brace top chord of joists under service loads for roof joists not braced by steel roof deck.

   1.2 Top chord extensions or extended ends are to be designed for the same tabulated uniform loads used in the design of the associated joists plus a concentrated load of 300 pounds at the end of the of the extension or extended end, unless noted otherwise on the Drawings.

2. Design of steel joists, bridging, and their connections shall be the sole responsibility of the Contractor. Submit shop drawings and calculations sealed by an Engineer licensed in the project state.

3. Contractor shall coordinate the construction and erection of walls, beam framing, steel decking, etc. to ensure compatibility of roof and wall systems considering pitch and camber of steel joists.

4. The contractor shall account for joist camber and change in deck direction with respect to requirements for all roofing elements.

STEEL DECK

1. Steel Roof Deck: See plan for gage, galvanized.

2. Submit shop drawings with the manufacturer's catalog demonstrating compliance with the Contract Documents and the Steel Deck Institute.

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SDG Project No: 2024-17120

STRUCTURAL NOTES CONTINUED
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
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STRUCTURAL NOTES CONTINUED
DATE ISSUED:
NOVEMBER 7, 2025

STRUCTURAL QUALITY ASSURANCE PLAN

GENERAL

This Structural Quality Assurance Plan includes:

1. The Statement of Special Inspections which defines the scope of testing and inspection that is required for this project.
2. The responsibilities of the Contractor.

Refer to other portions of the Construction Documents for Special Inspections required of architectural, mechanical, electrical, or other building components.

Special Inspector will be hired by the Owner.

Special Inspector shall maintain records of inspections in accordance with Chapter 17 of the Building Code and shall distribute these records to the Building Official, Architect, and Structural Engineer on a weekly basis, unless noted otherwise below. Reports shall indicate that work inspected/tested was done in conformance to the Construction Documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, they shall be brought to the attention of the Building Official, Architect, and Structural Engineer prior to completion of that phase of the work.

At the conclusion of the project, the Special Inspector shall submit a final report documenting required special inspections and correction of any discrepancies noted in the inspections.

STATEMENT OF SPECIAL INSPECTIONS

Special Inspector shall perform the following tests and inspections of all structural elements included within this Statement of Special Inspections.

1. The following tables contain material, components and work that require special inspection or testing:
   a. Inspection Frequency, C – Continuous special inspection. Special inspection by the special inspector who is present when and where the work to be inspected is being performed.
   b. Inspection Frequency, P – Periodic special inspection. Special inspection by the special inspector who is intermittently present where the work to be inspected has been or is being performed. For structural steel, observe the items on a random basis.
   c. See Steel and Steel Deck sections for additional information for inspection tasks.

SOILS	INSPECTION FREQUENCY	REFERENCED STANDARD
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	P	
2. Verify excavations are extended to proper depth and have reached proper material.	P	Inspection is required after excavation is complete and prior to placement of structural fills.
3. Perform classification and testing of compacted fill materials.	P	Perform laboratory tests of field samples provided by contractor for verification of in place densities.
4. Verify use of proper materials, densities, and lift thickness during placement and compaction of compacted fill. a. As a minimum, perform one test per lift for every 2500 square feet of fill placed.	C	Refer to specification for lift thicknesses and compaction.
5. Prior to placement of compacted fill, inspect subgrade and verify that the site has been prepared properly (e.g. proofrolling, etc.).	P	

CONCRETE CONSTRUCTION	INSPECTION FREQUENCY	REFERENCED STANDARD
1. Inspection of reinforcing steel placement and installation. Grade, size, quantity, quality, location, spacing, clearances.	P	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3
2. Inspection of anchors cast in concrete. Verify compliance of the following: diameter, grade, type, length, number, placement, and embedment depth.	C	ACI 318 17.8.2 / AISC 360 N5.7
3. Inspection of post-installed mechanical anchors installed in hardened concrete members. Verify anchor type, anchor dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque.	P	ACI 318 26.13.3 Use of post installed anchors must be approved by Structural Engineer
4. Inspection of post-installed adhesive anchors and reinforcing steel installed in hardened concrete members		ACI 318 26.13 Use of post installed anchors must be approved by Structural Engineer
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. Verify adhesive type, anchor rod dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque.	C	ACI 318 26.13.3.2
b. Adhesive anchors not defined above. Verify adhesive type, anchor rod dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque.	P	ACI 318 26.13.3.3
5. Verify use of required design mix.	P	ACI 318 Ch. 19, 26.4.3 26.4.4 / IBC 1904.1, 1904.2
6. Sampling fresh concrete from concrete discharge. Mold one set of specimens for compressive strength testing for each 150 cubic yards or each 5,000 square feet of slab or wall surface area for each mix design placed in any one day. No fewer than five tests for a given class of concrete for the entire project. a. Mold (5) 4x8-inch compressive strength cylinders, break and report (1) at 7-days, (3) at 28-days, or mold (4) 6x12-inch compressive strength cylinders, break and report (1) at 7-days, (2) at 28-days. b. Remaining specimens(s) shall be broken as directed by the Structural Engineer if compressive strengths do not appear adequate. c. For each set molded, record: i. Slump ii. Air Content iii. Unit Weight iv. Temperature, ambient and concrete v. Batch and discharge times vi. Location and placement vii. Any pertinent information, such as addition of water, addition of admixtures, etc. d. Report in writing on the same day as tests are performed. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, name of concrete testing agency, concrete design compressive strength, location of concrete placement in structure, concrete mix proportions and materials, compressive breaking strength and type of break. e. Verify compliance with construction documents.	C	ACI 318 26.12 ASTM C31, ASTM C172
7. Inspection of concrete conveying and placement for proper application techniques.	C	ACI 318 26.5
8. Verify maintenance of specified curing temperature and techniques.	P	ACI 318 26.5.3-26.5.5
9. Inspection of formwork for shape, location, and dimensions of the concrete member being formed.	P	ACI 318 26.11.1.2(b)
10. Perform testing of Floor Flatness and Levelness of concrete slab placements in accordance with ASTM E1155. See specifications.	P	ACI 117

CONCRETE MASONRY Level 2-(Risk Cat. I, II or III Structures using Engineered methods, Non-Empirical)	INSPECTION FREQUENCY	REFERENCED STANDARD
1. Prior to construction, verification of compliance of submittals.	Required	TMS 602 - Art. 1.4 B
2. Prior to construction, verification of f 'm	Required	TMS 602 - Art. 1.4 B
3. During construction, verification of Slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site.	Required	TMS 602 - Art. 1.5 & 1.6.3
4. As masonry construction begins, verify that the following are in compliance:		
a. Proportions of site-prepared mortar	P	TMS 602 - Art. 2.1, 2.6 A, & 2.6 C
b. Grade, type and size of reinforcement, connectors, and anchor bolts	P	TMS 602 - Art. 3.4
c. Sample panel construction	P	TMS 602 - Art. 1.6 D
5. Prior to grouting, verify that the following are in compliance:		
a. Grout space	P	TMS 602 - Art. 3.2 D & 3.2 F
b. Placement of reinforcement, connectors, and anchor bolts	P	TMS 602 - Art. 3.2 E & 3.4 TMS 402 Sec. 6.1, 6.3.1, 6.3.6, & 6.3.7
c. Proportions of site-prepared grout	P	TMS 602 - Art. 2.6 B
6. Verify compliance of the following during construction:		
a. Materials and procedures with the approved submittals	P	TMS 602 - Art. 1.5
b. Placement of masonry units and mortar joint construction	P	TMS 602 - Art. 3.3 B
c. Size and location of structural members	P	TMS 602 - Art. 3.3 F
d. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	P	TMS 402 - Sec. 1.2.1(e), 6.2.1, & 6.3.1
e. Preparation, construction, and protection of masonry during cold weather (temperature below 40 deg. F) or hot weather (temperature above 90 deg. F)	P	TMS 602 - Art. 1.8 C & 1.8 D
f. Placement of grout is in compliance	C	TMS 602 - Art. 3.5
7. Observe preparation of grout specimens, mortar specimens, and/or prisms	P	TMS 602 - Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4B.2.c.3, 1.4 B.3, & 1.4 B.4

STRUCTURAL STEEL	INSPECTION FREQUENCY	REFERENCED STANDARD
Where the following tasks have been be performed by the fabricator's or erector's quality control program in accordance to Chapter N of AISC 360-10, it is permitted that these tasks be coordinated with the Special Inspector so that the inspection functions are performed by only one party. The Special Inspector shall review records of tasks performed by the erector's and fabricator's quality control program to verify completeness.	Obs. - Observe these items on a random basis. Operations need not be delayed pending these inspections. Perf. - Perform these tasks for each welded joint, bolted joint, or member.	
1. Inspection of steel framing to verify compliance with details shown on the approved construction documents including member locations, bracing, stiffening application of joint details at each connection, proper fasteners, etc.	Obs.	AISC 360-10 N5.7
2. Review the material test reports and certifications as listed below for compliance with the construction documents.	Perf.	AISC 360-10 N5.2 & N3.2
a. Main structural steel material test reports		
b. Anchor rods and threaded rods test reports		
c. Headed stud anchors - manufacturer's certifications		
3. Visual Inspection Tasks Prior to Welding		AISC 360-10 Table N5.4-1
a. Welder qualification records and continuity records	Obs.	
b. Welding procedure specifications (WPSs) available	Perf.	AWS D1.1/D1.1M 6.3
c. Manufacturer certifications for welding consumables available.	Perf.	
d. Material identification (type/grade)	Obs.	AWS D1.1/D1.1M 6.2
e. Welder identification system. The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.	Obs.	AWS D1.1/D1.1M 6.4 (welder qualification) (identification system not required by AWS D1.1/D1.1M)
f. Fit-up of groove welds (including joint geometry) i. Joint preparation ii. Dimensions (alignment, root opening, root face, bevel) iii. Cleanliness (condition of steel surfaces) iv. Tacking (tack weld quality and location) v. Backing type and fit (if applicable)	Obs.	AWS D.1/D1.1M 6.5.2, 5.17 AWS D1.1/D1.1M 6.5.2 AWS D1.1/D1.1M 5.22 AWS D1.1/D1.1M 5.15 AWS D1.1/D1.1M 5.18
g. Configuration and finish of access holes	Obs.	AWS D1.1/D1.1M 5.10, 5.22.1.1
h. Fit-up of fillet welds i. Dimensions (alignment, gaps at root) ii. Cleanliness (condition of steel surfaces) iii. Tacking (tack weld quality and location)	Obs.	 AWS D1.1/D1.1M 5.22.1 AWS D1.1/D1.1M 5.15 AWS D1.1/D1.1M 5.18
i. Check welding equipment	Obs.	Only required for shop Fabrication.
4. Visual Inspection Tasks During Welding		AISC 360-10 Table N5.4-2
a. Use of qualified welders	Obs.	AWS D1.1/D1.1M 6.4
b. Control and handling of welding consumables i. Packaging ii. Exposure control	Obs.	 AWS D1.1/D1.1M 5.3.1 AWS D1.1/D1.1M 5.3.2 (for SMAW), AWS D.1/D1.1M 5.3.3 (for SAW)
c. No welding over cracked tack welds	Obs.	D1.1/D1.1M 5.18 (for SAW)
d. Environmental conditions i. Wind speed within limits ii. Precipitation and temperature	Obs.	 AWS D1.1/D1.1M 5.12.1 AWS D1.1/D1.1M 5.12.2
e. WPS followed i. Setting on welding equipment ii. Travel speed iii. Selected welding materials iv. Shielding gas type/flow rate v. Preheat applied vi. Interpass temperature maintained (min./max.) vii. Proper position (F, V, H, OH)	Obs.	AWS D1.1/D1.1M 6.3.3, 6.5.2, 5.5, 5.21 AWS D1.1/D1.1M 5.6, 5.7
f. Welding techniques i. Interpass and final cleaning ii. Each pass within profile limitations iii. Each pass meets quality requirements	Obs.	AWS D1.1/D1.1M 6.5.2, 6.5.3, 5.24 AWS D1.1/D1.1M 5.30.1
5. Visual Inspection Tasks After Welding		AISC 360-10 Table N5.4-3
a. Welds Cleaned	Obs.	AWS D1.1/D1.1M 5.30.1
b. Size, length and location of welds	Perf.	AWS D1.1/D1.1M 6.5.1
c. Welds meet visual acceptance criteria i. Crack prohibition ii. Weld/base-metal fusion iii. Crater cross section iv. Weld profiles v. Weld size vi. Undercut vii. Porosity	Perf.	AWS D1.1/D1.1M 6.5.3 AWS D1.1/D1.1M Table 6.1(1) AWS D1.1/D1.1M Table 6.1(2) AWS D1.1/D1.1M Table 6.1(3) AWS D1.1/D1.1M Table 6.1(4), 5.24 AWS D1.1/D1.1M Table 6.1(6) AWS D1.1/D1.1M Table 6.1(7) AWS D1.1/D1.1M Table 6.1(8)
d. Arc strikes	Perf.	AWS D1.1/D1.1M 5.29
e. k-area: When welding doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75mm) of the weld.	Perf.	
f. Backing removed and weld tabs removed (if required)	Perf.	AWS D1.1/D1.1M 5.10, 5.31
g. Repair activities	Perf.	AWS D1.1/D1.1M 6.5.3, 5.26
h. Document acceptance or rejection of welded joint or member	Perf.	AWS D1.1/D1.1M 6.5.4, 6.5.5
i. No prohibited welds have been added without the approval of the EOR.	Obs.	
6. Nondestructive Testing (NDT) of Welded Joints	Ultrasonic testing (UT), magnetic particle testing (MT), penetrant testing (PT) and radiographic testing (RT), where required, shall be performed by Special Inspector in accordance with AWS D1.1/D1.1M. NDT of welds completed in a fabricator's shop may be performed by that fabricator when fabricator is AISC Certified or approved by the Building Official where applicable. When the fabricator performs the NDT, the Special inspection agency shall review the fabricator's NDT reports. All NDT of welds completed in the field shall be performed by the Special Inspector. Acceptance criteria shall be in accordance with AWS D1.1/D1.1M for statically loaded structures, unless otherwise designated in the design drawings or project specifications.	
a. UT all complete penetration grove welds subject to transversely applied tension loading in a butt, T- and corner joints in material 5/16" thick or greater.	Perf.	AISC 360-10 N5.5b & AISC 341-10 J6.2b
b. Document all NDT performed, identifying tested weld by location in the structure, piece mark and location. Concurrent to submitting NDT reports to EOR or owner submit to contractor.	Perf.	AISC 360-10 N5.5g
c. Review NDT test reports performed by fabricator	Perf.	AISC 360-10 N7

STRUCTURAL STEEL (CONT.)	INSPECTION FREQUENCY	REFERENCED STANDARD
7. Inspection Tasks Prior to Bolting	Perform for 10% of all Snug tight joints if task is applicable and all pretension and slip critical joints. AISC 360-10 Table N5.6-1	
a. Manufacturer's certifications available for fastener materials	Perf.	RCSC 2.1 & 9.1
b. Fasteners marked in accordance with ASTM requirements	Perf.	RCSC Figure C-2.1 & 9.1 (Also See ASTM Standards)
c. Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	Obs.	RCSC 2.3.2, 2.7.2 & 9.1
d. Correct bolting procedure selected for joint detail	Obs.	RCSC 4 & 8
e. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	Obs.	RCSC 3, 9.4 & 9.3
f. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used, not required for Snug tight bolts	Obs.	RCSC 7 & 9.2
g. Proper storage provided for bolts, nuts, washers and other fastener components	Obs.	RCSC 2.2,8 & 9.1
8. Inspection Tasks During Bolting	Perform for 10% of all Snug tight joints if task is applicable and all pretension and slip critical joints. Special Inspector need not be present during bolt pretensioning procedures. AISC 360-10 Table N5.6-2	
a. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required	Obs.	RCSC 8.1 & 9.1
b. Joint brought to the snug-tight condition prior to the pretensioning operation	Obs.	RCSC 8.1 & 9.1
c. Fastener component not turned by the wrench prevented from rotating	Obs.	RCSC 8.2 & 9.2
d. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	Obs.	RCSC 8.2 & 9.2
9. Inspection Tasks After Bolting		AISC 360-10 Table N5.6-3
a. Document acceptance or rejection of bolted connections	Perf.	

STEEL JOISTS	INSPECTION FREQUENCY	REFERENCED STANDARD
1. Visual inspection of bolted and welded connections.	P	
2. Verify installation of bridging or braces.	P	
3. Verify connections for top and bottom chords.	P	
4. Verify reinforcement of members for concentrated loads.	P	
5. Verify proper bearing.	P	

STEEL DECK	INSPECTION FREQUENCY	REFERENCED STANDARD
	Obs. - Observe these items on an random basis. Operations need not be delayed pending these inspections. Perf. - Perform these tasks for each item or element.	
1. Material verification of steel deck and deck accessories	Perf.	
a. Identification markings to conform to ASTM standards specified in the approved construction documents		SDI QA/QC Table 1.1A
b. Verify profile, material properties, and base metal thickness		SDI QA/QC Table 1.1A
c. Manufacturer's certified test reports		SDI QA/QC Table 1.2B
d. Document acceptance or rejection of deck and deck accessories		SDI QA/QC Table 1.1B
2. Verify general alignment and deck lap	Perf.	SDI QA/QC Table 1.2A
a. Document acceptance or rejection of installation of deck and deck accessories		SDI QA/QC Table 1.2C
3. Visual Inspection Tasks Prior to Welding	Obs.	
a. Welding procedure specifications (WPSs) available		SDI QA/QC Table 1.3A
b. Manufacturer certifications for welding consumables available.		SDI QA/QC Table 1.3B
c. Material identification (type/grade)		SDI QA/QC Table 1.3C
d. Check welding equipment		SDI QA/QC Table 1.3D
4. Visual Inspection Tasks During Welding	Obs.	
a. Use of qualified welders		SDI QA/QC Table 1.4A
b. Control and handling of welding consumables		SDI QA/QC Table 1.4B
c. Environmental conditions i. Wind speed within limits ii. Precipitation and temperature		SDI QA/QC Table 1.4C
d. WPS followed		SDI QA/QC Table 1.4D
5. Visual Inspection Tasks After Welding	Perf.	
a. Size and location of welds, including support, sidelap, and perimeter welds		SDI QA/QC Table 1.5A
b. Welds meet visual acceptance criteria		SDI QA/QC Table 1.5B
c. Repair activities		SDI QA/QC Table 1.5C
d. Document acceptance or rejection of welds		SDI QA/QC Table 1.5D
6. Inspection Tasks Prior to Mechanical Fastening	Obs.	
a. Manufacturer installation instructions available for mechanical fasteners		SDI QA/QC Table 1.6A
b. Proper tools available for fastener installation		SDI QA/QC Table 1.6B
c. Proper storage provided for mechanical fasteners		SDI QA/QC Table 1.6C
7. Inspection Tasks During Mechanical Fastening	Obs.	
a. Fasteners are positioned as required		SDI QA/QC Table 1.7A
b. Fasteners are installed in accordance with manufacturer's instructions		SDI QA/QC Table 1.7B
8. Inspection Tasks After Mechanical Fastening	Perf.	
a. Spacing, type, and installation of support fasteners		SDI QA/QC Table 1.8A
b. Spacing, type, and installation of sidelap fasteners		SDI QA/QC Table 1.8B
c. Spacing, type, and installation of perimeter fasteners		SDI QA/QC Table 1.8C
d. Repair activities		SDI QA/QC Table 1.8D
e. Document acceptance or rejection of mechanical fasteners		SDI QA/QC Table 1.8E
9. Verify installation of deck closures.	Perf.	

Special Inspector shall be responsible for additional Architectural and MPE inspections. See other disciplines for requirements.

CONTRACTOR RESPONSIBILITIES

1. Contractor shall submit to the Building Official, Owner, and the Architect a written statement of responsibility that contains the following:
   a. Acknowledgment of awareness of the special requirements contained in the Statement of Special Inspections for the main wind-force-resisting system or a wind-resisting component listed in the Statement of Special Inspections.
2. Contractor shall pay for any additional structural testing/inspection required for work or materials not complying with the Construction Documents due to negligence or nonconformance and shall pay for any additional structural testing/inspection required for his convenience.
3. Contractor is responsible to ensure that the Special Inspector is on site as required to perform all tasks required by Statement of Special Inspection. Any work that requires special inspection and is performed without the Special Inspector being present is subject to being demolished and reconstructed.
4. Contractor has the following responsibilities to the Special Inspector:
   a. Provide copy of Construction Documents to Special Inspector and latest addenda (include change orders and field orders prior to inspection of work contained therein).
   b. Notify Special Inspector sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.
   c. Cooperate with Special Inspector and provide access to work.
   d. Provide samples of materials to be tested in required quantities.
   e. Provide storage space for Special Inspector's exclusive use, such as for storing and curing concrete testing samples.
   f. Provide labor to assist Special Inspector in performing tests/inspections.
5. Contractor shall perform the following:
   a. SOILS
      i. Identify soils to be used as structural fill.
   b. CAST-IN-PLACE CONCRETE
      i. Submit manufacturer's certification that reinforcing materials comply with Construction Documents.
      ii. Establish concrete mix design proportions in accordance with the specifications and ACI 318, Chapter 26.
      iii. Submit manufacturer's certification that concrete materials meet the requirements of the Construction Documents.
      iv. Submit manufacturer's data for tension and compression splicers.
   c. CONCRETE MASONRY
      i. Submit a certification from each manufacturer or supplier stating that the following materials comply with the Construction Documents:
         1. Concrete masonry units.
         2. Mortar materials: Portland cement, hydrated lime, and aggregates.
         3. Grout materials: Portland cement and aggregates.
         4. Joint reinforcement steel.
         5. Reinforcing steel.
   d. STRUCTURAL STEEL
      i. If fabricator or erector is not AISC certified, the fabricator and/or erector shall establish and maintain quality control procedures and perform inspections to ensure that their work is performed in accordance with the Section N of the Specification for Structural Steel Building, AISC 360-22 and the construction documents. Payment of these Quality control tests and inspections, except for all NDT of welds completed in the field by the Special Inspector, shall be by the fabricator and Erector.
         1. Make available the documents listed in AISC 360 N3.2 in electronic or printed form for review by the EOR of the EOR's Designee prior to fabrication or erection unless otherwise required by the contract documents to be submitted.
      ii. If fabricator and erector are certified by the American Institute of Steel Construction (AISC) Quality Certification Program for Structural Steel Buildings submit certification.
         1. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the Building Official stating that the materials supplied and work performed by the fabricator are in accordance with the construction documents.
         2. At completion of erection, the approved erector shall submit a certificate of compliance to the Building Official stating that the materials supplied and work performed by the erector are in accordance with the construction documents.
      iii. Provide non-destructive test (NDT) reports performed in shop by fabricator. Fabricator is responsible for cost of NDT performed in shop. Reports shall identify the tested weld by piece mark and location in the piece.
   e. POST-INSTALLED ANCHORS
      i. Contractor shall contact manufacturer's representative for product installation training. Submit a letter indicating that training has taken place.
   f. STEEL JOISTS
      i. Submit manufacturer's certificate of compliance that the steel joists comply with the Construction Documents.
   g. STEEL DECK
      i. Submit manufacturer's certificate of compliance that the supplied steel deck complies with the Construction Documents.

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Nashville, Tennessee 37209
www.sdg.structure

SDG Project No: 2025-172.00

STRUCTURAL QUALITY ASSURANCE PLAN
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
Lexington, KY Office
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Structural Engineer:
Structural Design Group, Inc.
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Project No:	25015
Drawn By:	CH/DH/RP
Rev'd By:	CA/LG

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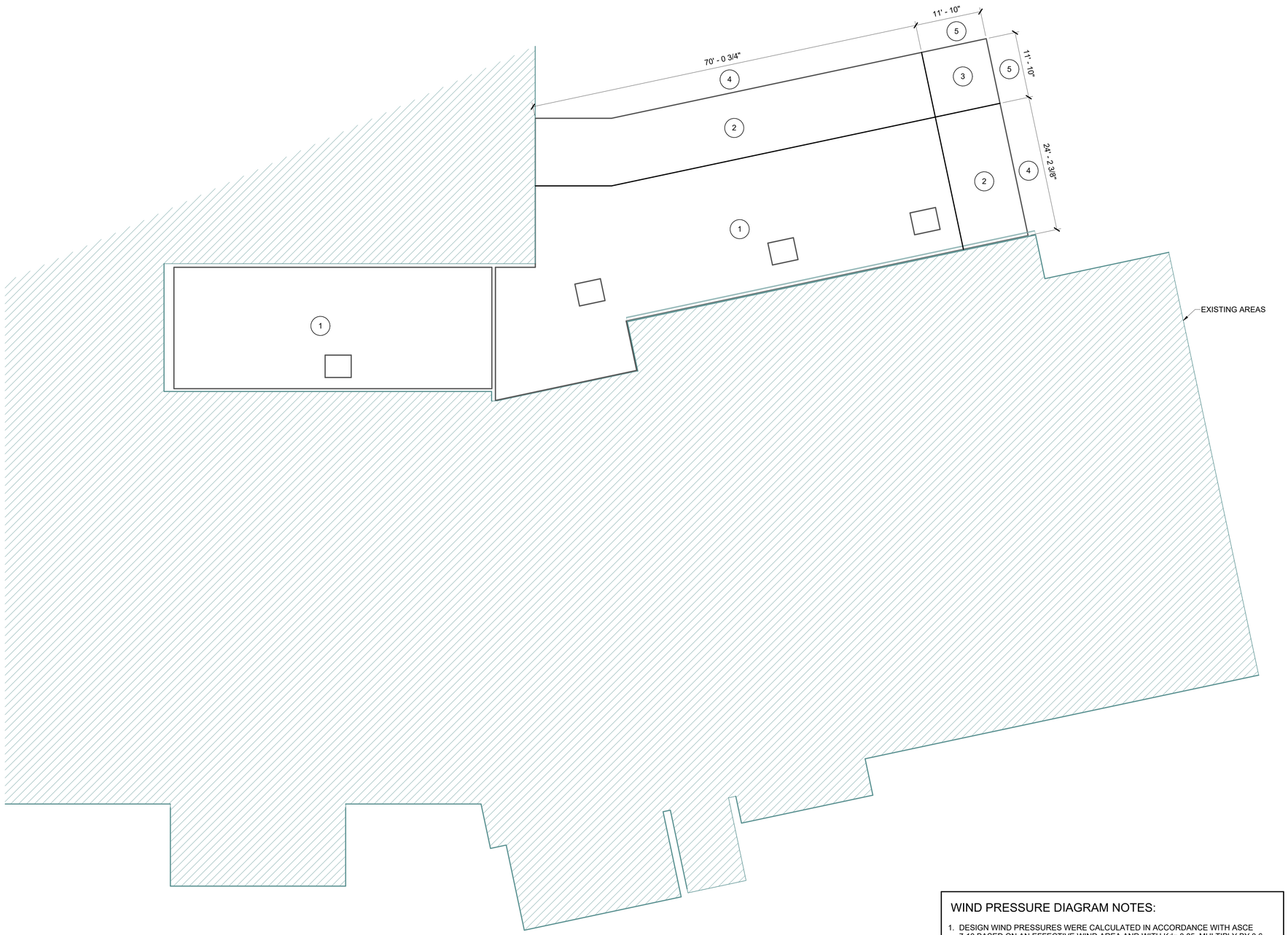
STRUCTURAL QUALITY ASSURANCE PLAN
DATE ISSUED:
NOVEMBER 7, 2025

WIND PRESSURE DIAGRAM



PARAPET PRESSURES		
AREA (SQ. FT)	ZONE 4 (PSF)	ZONE 5 (PSF)
10	71.8	98.4
20	64.9	83.5
50	55.8	63.9
100	49	49

EXTERIOR WALL PRESSURES		
AREA (SQ. FT)	ZONE 4 (PSF)	ZONE 5 (PSF)
10	+28.7 / -31.1	+28.7 / -38.3
50	+25.8 / -28.2	+25.8 / -32.4
100	+24.5 / -26.9	+24.5 / -29.8
200	+23.2 / -25.6	+23.2 / -27.3
≥500	+21.5 / -23.9	+21.5 / -23.9

ROOF UPLIFT PRESSURES			
AREA (SQ. FT)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)
10	-31.4	-52.7	-79.3
20	-30.6	-47.1	-65.7
50	-29.5	-39.7	-47.7
100	-28.7	-34.0	-34.0
200	-28.7	-34.0	-34.0
≥500	-28.7	-34.0	-34.0

WIND PRESSURE DIAGRAM NOTES:

1. DESIGN WIND PRESSURES WERE CALCULATED IN ACCORDANCE WITH ASCE 7-10 BASED ON AN EFFECTIVE WIND AREA AND WITH Kd= 0.85. MULTIPLY BY 0.6 FOR ASD PRESSURES.
2. ROOF UPLIFT WIND PRESSURES IN ZONES ARE GROSS UPLIFT VALUES. NET UPLIFT PRESSURES SHALL BE CONSIDERED EQUAL TO GROSS PRESSURES.
3. TABULATED WIND PRESSURES SHALL BE USED IN THE DESIGN OF EXTERIOR COMPONENT AND CLADDING MATERIALS. INTERPRETATION AND APPLICATION OF THESE PRESSURES TO SPECIFIC PORTIONS OF THE BUILDING AREAS SHALL BE THE RESPONSIBILITY OF THE EXTERIOR COMPONENT AND CLADDING MATERIAL SUPPLIER.
4. WHERE PARAPET HEIGHT EXCEEDS 3' - 0", CORNER ZONES (ZONE 3), MAY BE TREATED AS PERIMETER ZONES (ZONE 2).

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SDG Project No: 2025-172.00

WIND PRESSURE DIAGRAM PLAN

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:

MARION COUNTY BOARD OF EDUCATION

LEBANON, KENTUCKY

M.E.&P. Engineer:
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Project No: 25015
Drawn By: CH/DH/RP
Rev'd By: CA/LG

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WIND PRESSURE DIAGRAM PLAN

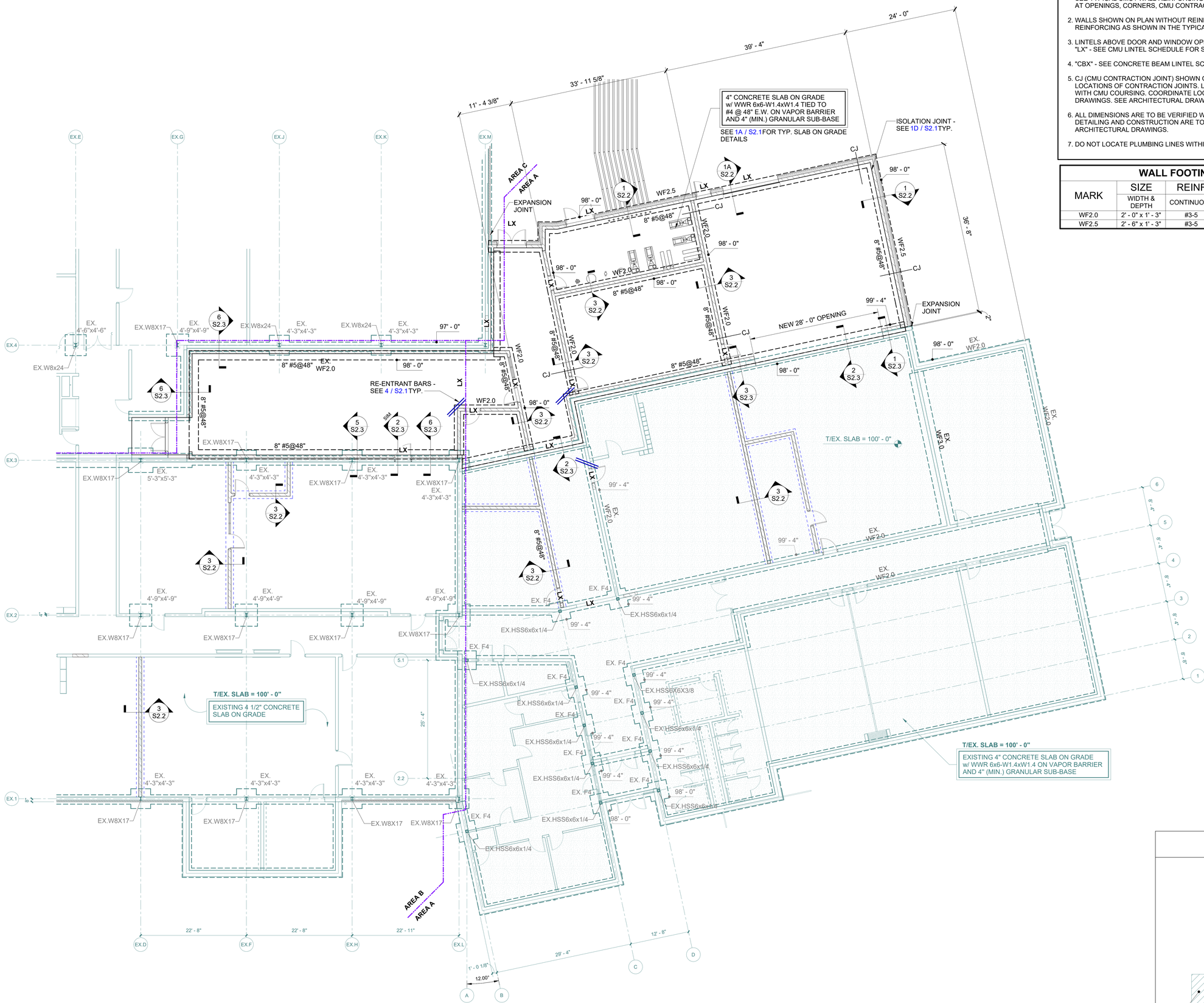
DATE ISSUED:
NOVEMBER 7, 2025

FOUNDATION NOTES:

1. WALL REINFORCING FOR FULL HEIGHT OF WALLS IS INDICATED ON PLANS (ie, X" #X@XX", DENOTES CMU/BAR SIZE/BAR SPACING) SEE TYPICAL CMU / WALL REINFORCING DETAIL FOR ADDITIONAL REINFORCING AT OPENINGS, CORNERS, CMU CONTRACTION JOINTS, ETC.
2. WALLS SHOWN ON PLAN WITHOUT REINFORCING INDICATED TO HAVE MINIMUM REINFORCING AS SHOWN IN THE TYPICAL CMU WALL REINFORCING DETAIL.
3. LINTELS ABOVE DOOR AND WINDOW OPENINGS ARE SHOWN ON PLANS. "LX" - SEE CMU LINTEL SCHEDULE FOR SIZE AND REINFORCING.
4. "CBX" - SEE CONCRETE BEAM LINTEL SCHEDULE FOR SIZE & REINFORCING.
5. CJ (CMU CONTRACTION JOINT) SHOWN ON PLANS INDICATES APPROPRIATE LOCATIONS OF CONTRACTION JOINTS. LOCATIONS ARE INTENDED TO COINCIDE WITH CMU COURSING. COORDINATE LOCATION OF JOINTS WITH ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF BRICK JOINTS.
6. ALL DIMENSIONS ARE TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE DETAILING AND CONSTRUCTION ARE TO BEGIN. FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
7. DO NOT LOCATE PLUMBING LINES WITHIN CONCRETE FOOTINGS.

WALL FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT		REMARKS
	WIDTH & DEPTH	CONTINUOUS	TRANSVERSE	
WF2.0	2' - 0" x 1' - 3"	#3-5	#5@12"	
WF2.5	2' - 6" x 1' - 3"	#3-5	#5@12"	



FOUNDATION PLAN

1/8" = 1'-0"

KEY PLAN

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SDG Project No: 2025-17226

FOUNDATION PLAN
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

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Project No:	25015
Drawn By:	CH/DH/RP
Rev'd By:	CA/LG

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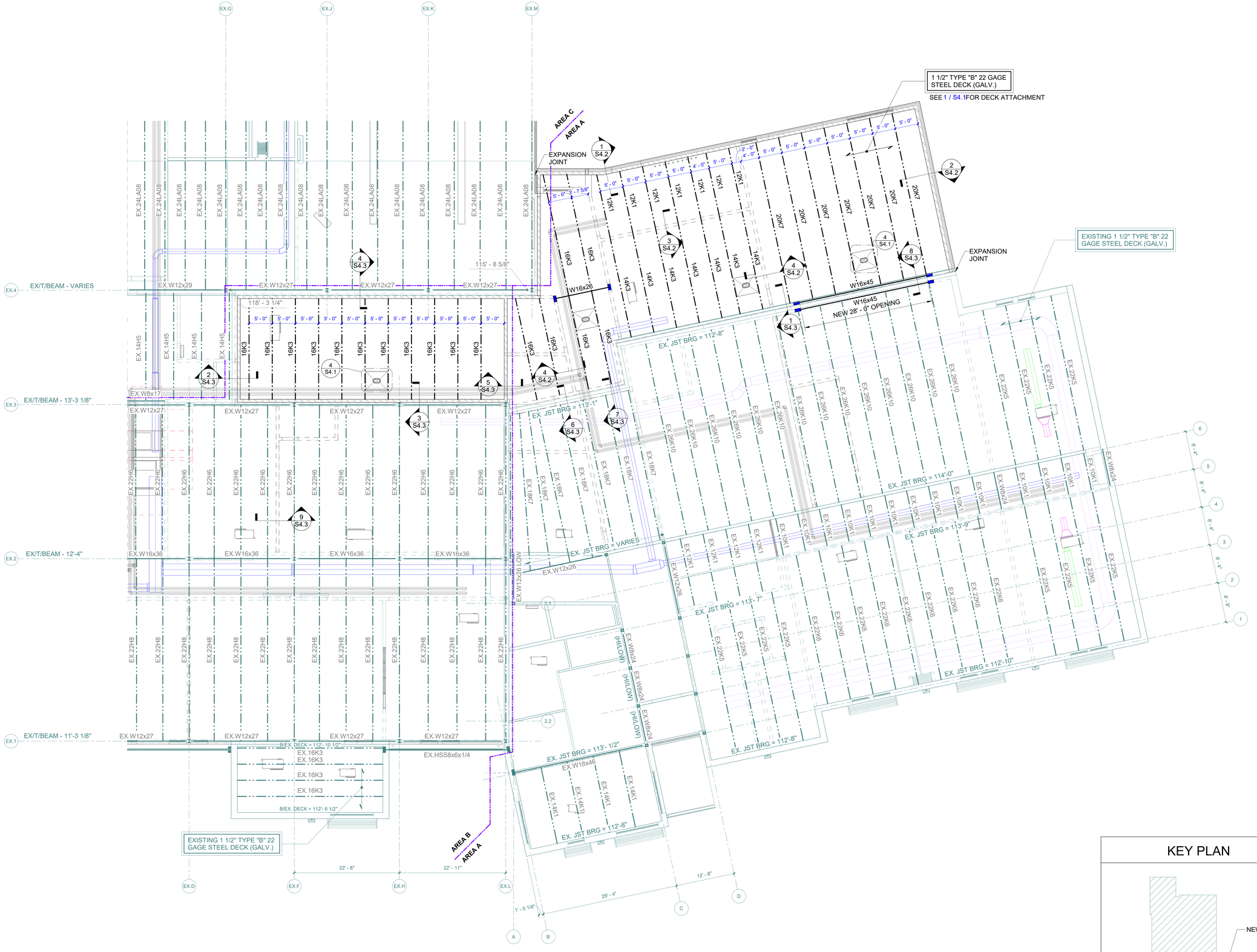

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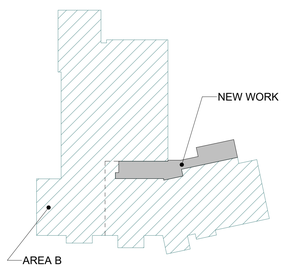

ROOF FRAMING PLAN

1/8" = 1'-0"

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ROOF FRAMING PLAN

MARION COUNTY ATC - RENOVATION & ADDITION
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ROOF FRAMING PLAN

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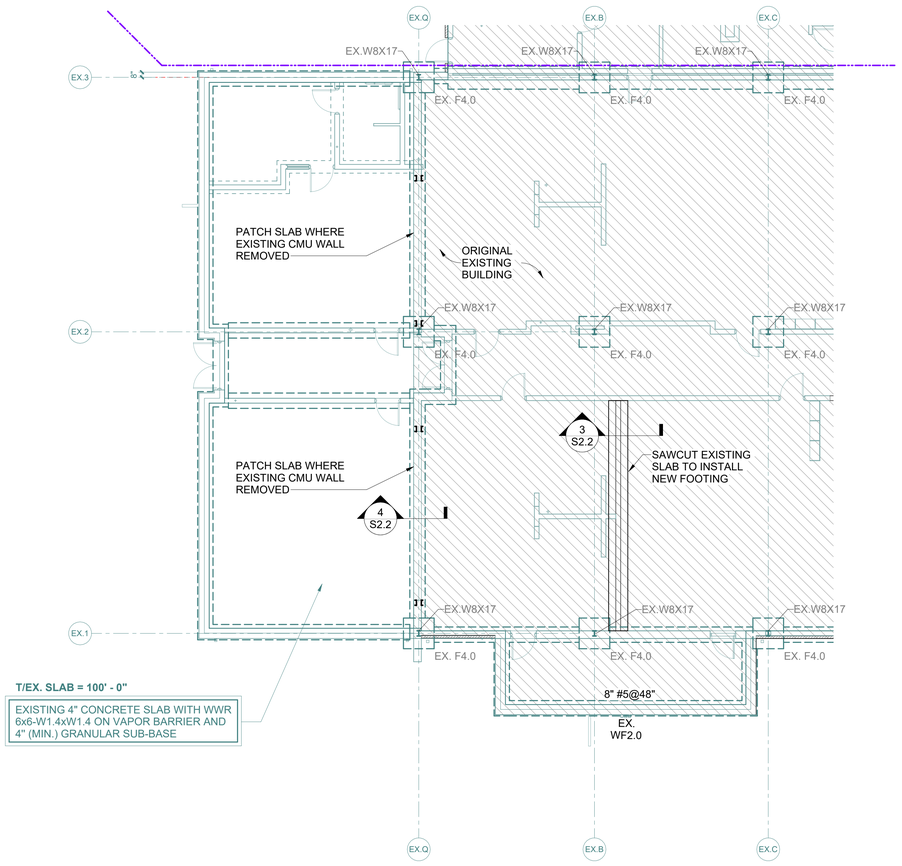
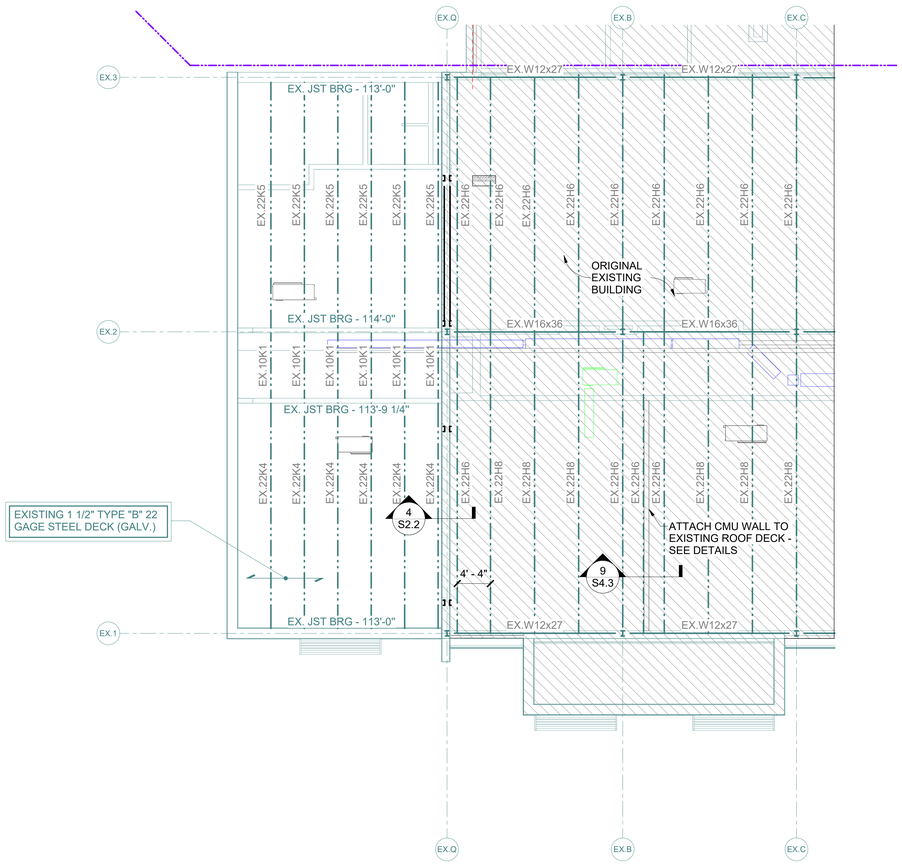


FOUNDATION PLAN - AREA B

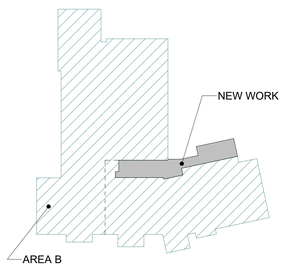
1/8" = 1'-0"



ROOF FRAMING PLAN - AREA B

1/8" = 1'-0"

KEY PLAN



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SDG Project No: 2025-172.00

FOUNDATION AND FRAMING PLANS - AREA B

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:

MARION COUNTY BOARD OF EDUCATION

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FOUNDATION AND FRAMING PLANS - AREA B
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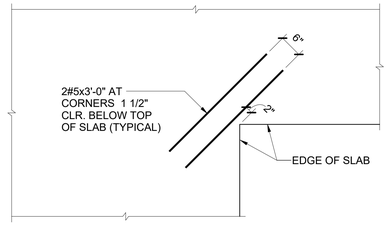
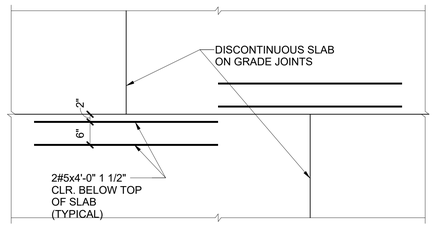


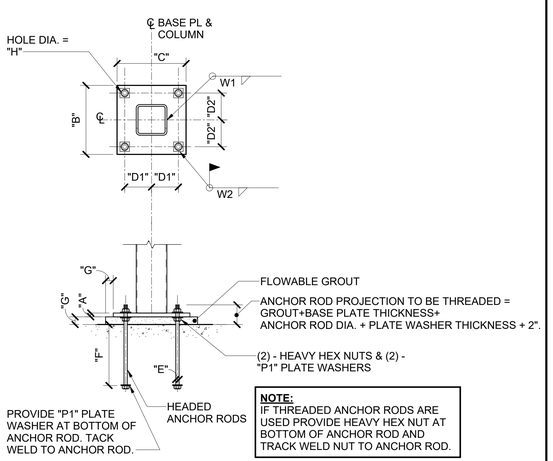
AT RE-ENTRANT CORNERS



DISCONTINUOUS JOINTS

4 TYPICAL ADDITIONAL SLAB REINFORCEMENT

BASE PLATE MARK	BASE PLATE						ANCHOR RODS		WELDS			
	"A"	"B"	"C"	"D1"	"D2"	"H"	No.	"E"	"F"	W1	W2	"G"	P1

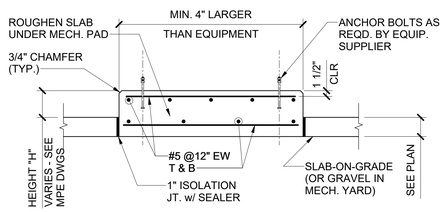


NOTE:
IF THREADED ANCHOR RODS ARE USED PROVIDE HEAVY HEX NUT AT BOTTOM OF ANCHOR ROD AND TRACK WELD NUT TO ANCHOR ROD.

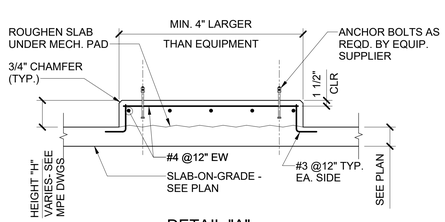
5 HSS COLUMN BASE PLATE AND ANCHOR ROD SCHEDULE/ DETAIL

NOTE:

1. PAD AND CURB DETAILS DEPICTED ABOVE SHALL APPLY UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. THE HEIGHT "H" OF THE MECHANICAL EQUIPMENT PADS SHALL BE COORDINATED WITH THE MPE DRAWINGS.
2. THE CONTRACTOR SHALL PROVIDE CONCRETE PADS ADEQUATE FOR THE SUPPORT OF THE MPE EQUIPMENT, EXACT, SIZES, LOCATIONS, HEIGHTS, AND ANY SPECIAL DETAILS FOR THE PADS SHALL BE OBTAINED FROM THE VENDORS BEFORE INSTALLATION OF THE PADS. PADS SHALL BE INSTALLED IN ACCORDANCE WITH THE EQUIPMENT STANDARDS. ALL EMBEDDED ITEMS SHALL BE COORDINATED WITH THE EQUIPMENT SUPPLIER. THE PADS SHALL RECEIVE A SMOOTH TROWELED FINISH.
3. DETAIL 'A' -- FOR USE UNDER ALL EQUIPMENT SUPPORTED ON SLABS-ON-GRADE.
4. DETAIL 'B' -- FOR USE UNDER ALL EQUIPMENT WEIGHING OVER 2000 POUNDS SUPPORTED ON SLABS-ON-GRADE (ISOLATED).

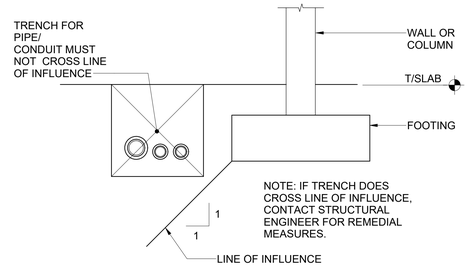


DETAIL "B"

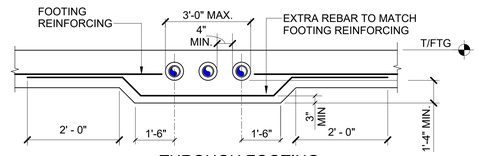


DETAIL "A"

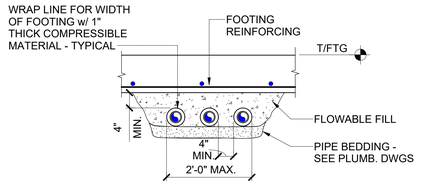
3 EQUIPMENT PAD DETAILS AT SLAB-ON-GRADE



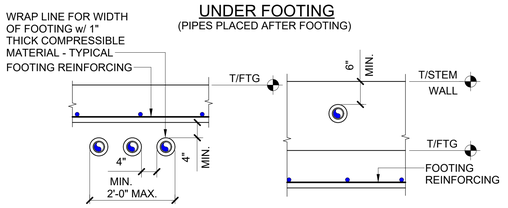
2E PIPE/CONDUIT TRENCH PARALLEL TO FOOTING



THROUGH FOOTING



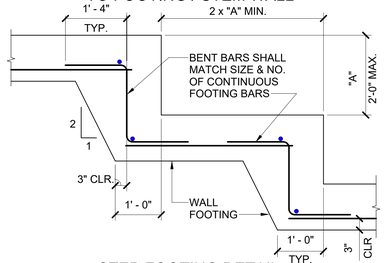
UNDER FOOTING
(PIPES PLACED AFTER FOOTING)



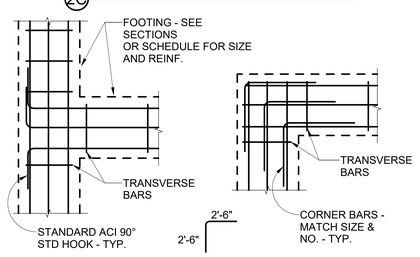
UNDER FOOTING
(PIPES PLACE PRIOR TO FOOTING)

THRU STEM WALL

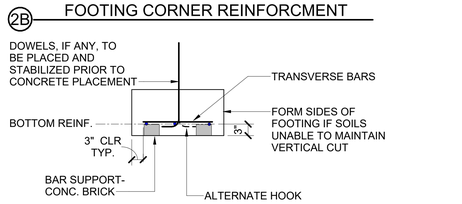
2D PIPE/CONDUIT LINES PERPENDICULAR TO FOOTING / STEM WALL



2C STEP FOOTING DETAIL

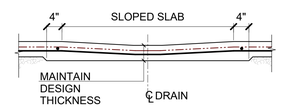


2B FOOTING CORNER REINFORCMENT

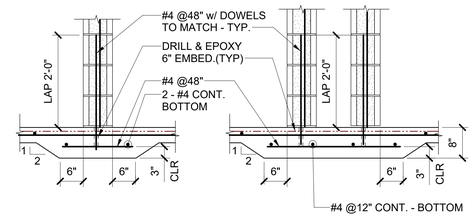


2A TYPICAL CONTINUOUS FOOTING DETAIL

2 TYPICAL CONTINUOUS FOOTING DETAILS

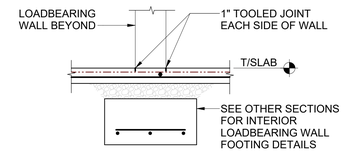


1H SLOPED SLAB AT FLOOR DRAIN

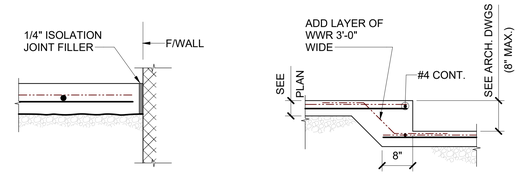


AT CONTINUOUS SLAB AT DOUBLE WALL

1G THICKENED SLAB AT NON-LOADBEARING CMU WALLS

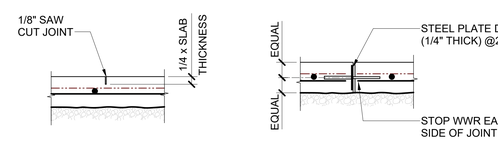


1F CONTRACTION JOINT AT DOORS



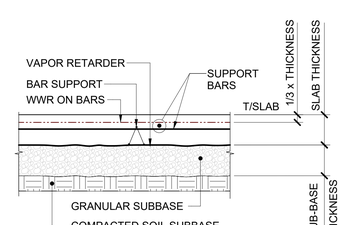
1D ISOLATION JOINT

1E SLAB RECESS



1B CONTRACTION JOINT (AT 16'-0" MAX.)

1C CONSTRUCTION JOINT (LOCATED AT CONTRACTOR'S PREFERENCE)



1A TYPICAL SLAB SECTION

1 TYPICAL SLAB-ON-GRADE DETAILS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

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Structural Design Group
Consulting Structural Engineers
1700 Eastpoint Parkway, Suite 200
Louisville, Kentucky 40223
www.sdg-pllc.com
SDG Project No: 2025-172.00

FOUNDATION SECTIONS AND DETAILS
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892
Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

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Project No: 25015
Drawn By: CH/DH/RP
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FOUNDATION SECTIONS AND DETAILS
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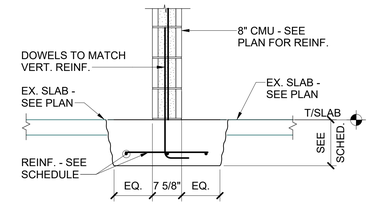
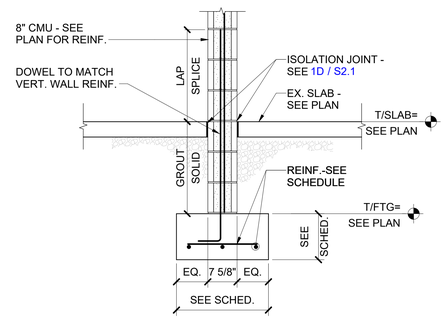
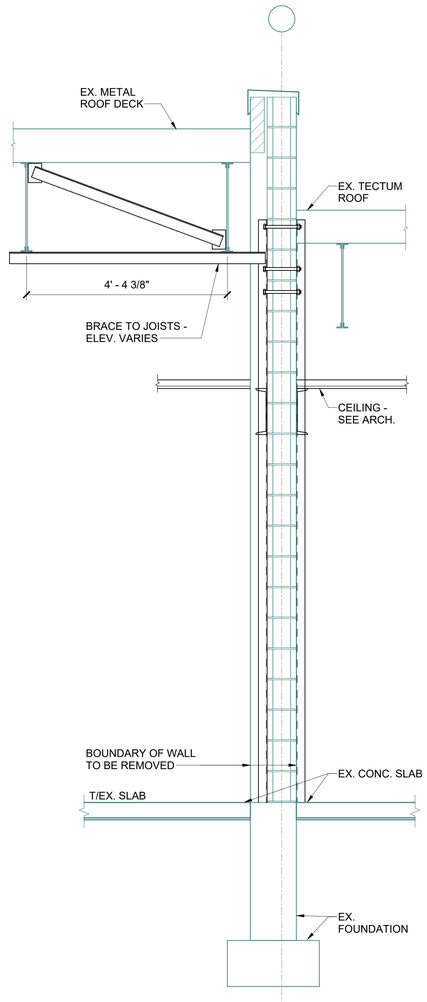


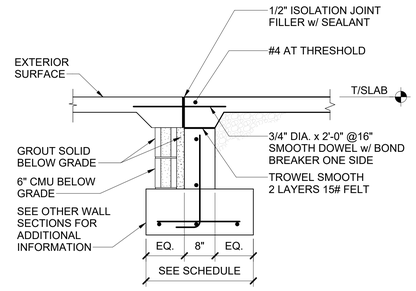
3 SECTION



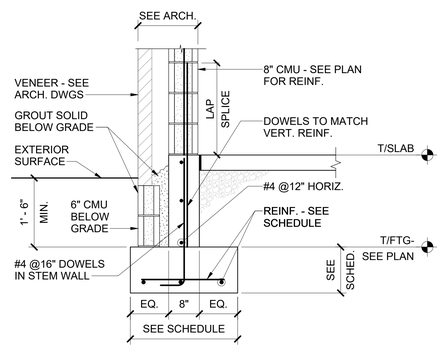
2 SECTION



4 SECTION



1A SECTION AT DOOR



1 SECTION

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

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Structural Design Group
Consulting Structural Engineers
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Louisville, Kentucky 40223
www.sdg-structural.com

SDG Project No: 2025-172.00

FOUNDATION SECTIONS AND DETAILS
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
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LEBANON, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG

Project No: 25015
Drawn By: CH/DH/RP
Rev'd By: CA/LG

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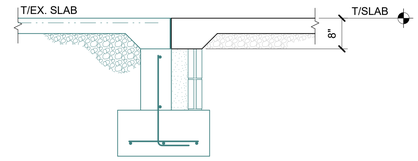
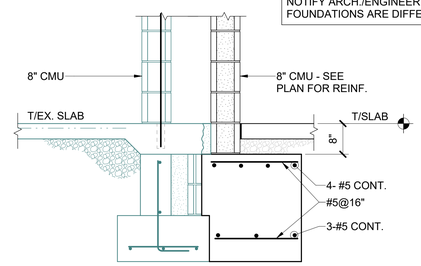
NOTE:
EXISTING FOUNDATION CONDITIONS ARE ASSUMED. NOTIFY ARCH./ENGINEER IF FOUNDATIONS ARE DIFFERENT.

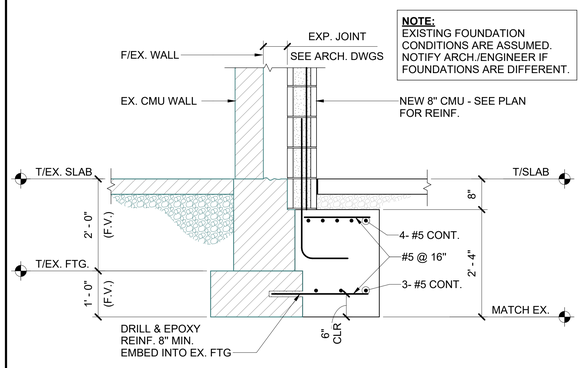


4 SECTION AT EXISTING OPENING

NOTE:
EXISTING FOUNDATION CONDITIONS ARE ASSUMED. NOTIFY ARCH./ENGINEER IF FOUNDATIONS ARE DIFFERENT.

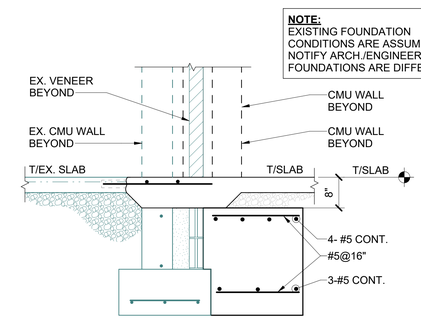


3 SECTION AT EXISTING w/ NEW CMU INFILL

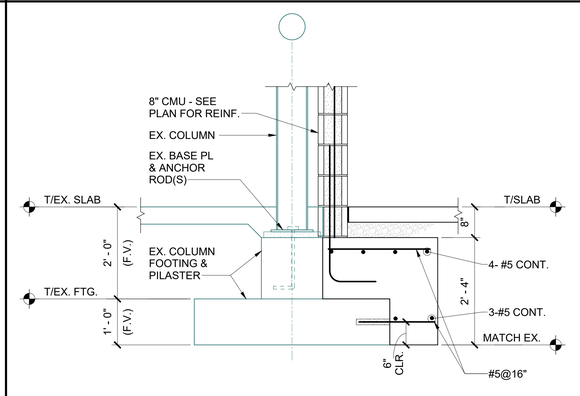


NOTE:
EXISTING FOUNDATION CONDITIONS ARE ASSUMED. NOTIFY ARCH./ENGINEER IF FOUNDATIONS ARE DIFFERENT.

6 SECTION AT EXISTING

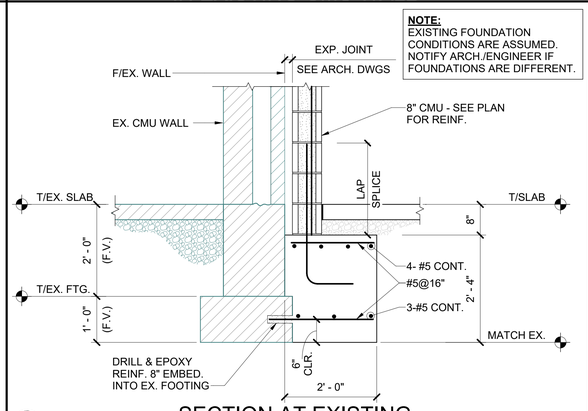


2 SECTION AT NEW OPENING IN EXISTING CMU WALL



5 SECTION AT EXISTING COLUMN

NOTE:
EXISTING FOUNDATION CONDITIONS ARE ASSUMED. NOTIFY ARCH./ENGINEER IF FOUNDATIONS ARE DIFFERENT.



1 SECTION AT EXISTING

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

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SDG Project No: 2025-172.00

FOUNDATION SECTIONS AND DETAILS

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:

MARION COUNTY BOARD OF EDUCATION

LEBANON, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
Lexington, KY Office
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Structural Engineer:
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Project No: 25015
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FOUNDATION SECTIONS AND DETAILS
DATE ISSUED:
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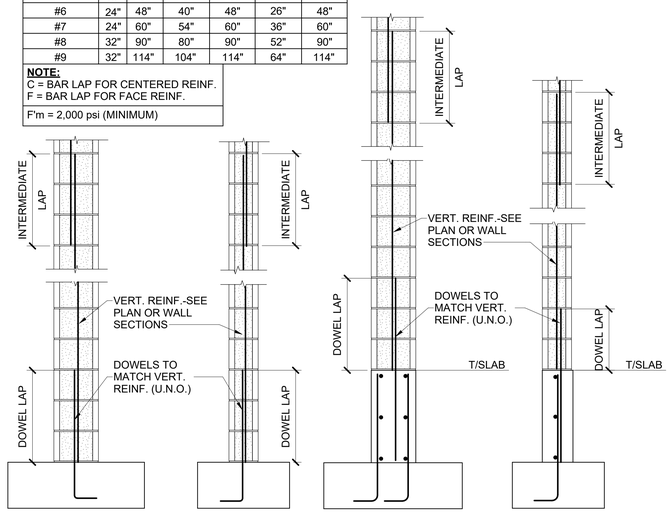
CMU LAP SPLICE SCHEDULE						
BAR SIZE	LAP LENGTH					
	DOWEL		INTERMEDIATE			
			8" CMU		12" CMU	
	C	F	C	F	C	F
#4	16"	16"	24"	24"	24"	24"
#5	16"	24"	24"	24"	24"	24"
#6	24"	48"	40"	48"	26"	48"
#7	24"	60"	54"	60"	36"	60"
#8	32"	90"	80"	90"	52"	90"
#9	32"	114"	104"	114"	64"	114"

NOTE:
C = BAR LAP FOR CENTERED REINF.
F = BAR LAP FOR FACE REINF.

F'm = 2,000 psi (MINIMUM)

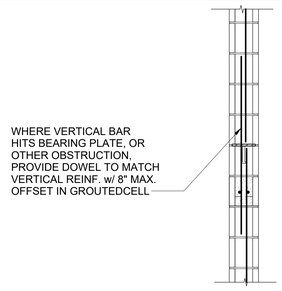
NOTE: IF BARS ARE DETAILED AS "OFF-CENTER" IN DRAWINGS USE LAP LENGTHS IN SCHEDULE FOR FACE BARS "F"



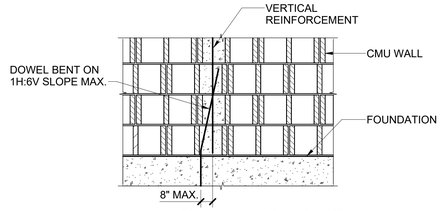
CMU BELOW SLAB

CONCRETE BELOW SLAB

8 CMU REINFORCEMENT LAP SPLICE SCHEDULE

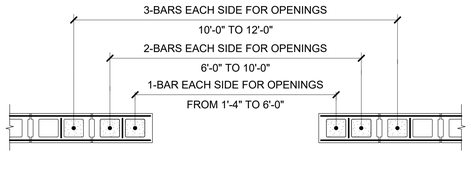


5 NON-CONTACT LAP SPLICE DETAIL



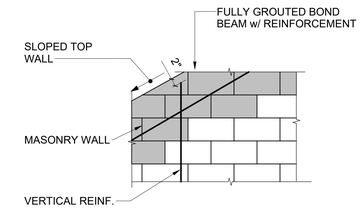
ELEVATION VIEW TOLERANCE

4 DOWEL-PERMITTED BENDING DETAIL

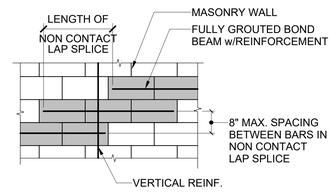


SEE PLAN OR SECTIONS FOR VERTICAL WALL REINFORCEMENT

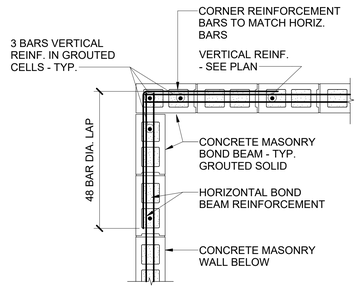
3 CMU WALL OPENING DETAIL



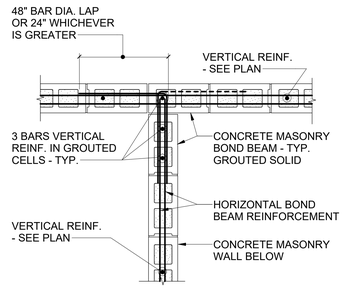
SLOPED BOND BEAM



STEPPED BOND BEAM

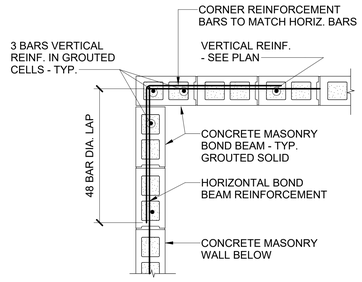


AT CORNERS



AT INTERSECTIONS

DOUBLE ROW REINFORCEMENT



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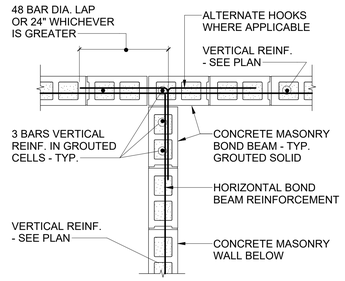
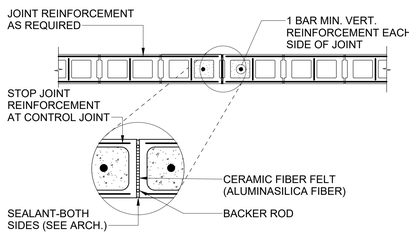


AT INTERSECTIONS

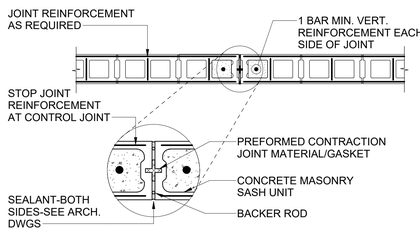
SINGLE ROW REINFORCEMENT

2 CMU BOND BEAM DETAILS

NOTE:
1. SEE PLANS FOR LOCATION OF CONTRACTION JOINTS AND STRUCTURAL NOTES FOR MAX. SPACING.
2. LOCATE CONTRACTION JOINTS 2'-0" MINIMUM FROM SIDES OF OPENINGS.
3. CJ (CMU CONTRACTION JOINT) SHOWN ON PLANS INDICATES APPROXIMATE LOCATIONS OF CONTRACTION JOINTS. LOCATIONS ARE INTENDED TO COINCIDE WITH CMU COURSING. COORDINATE LOCATION OF JOINTS WITH ARCH. DWGS. SEE ARCH. DWGS FOR LOCATIONS OF BRICK JOINTS.
4. COORDINATE LOCATIONS w/ ARCH. DWGS.
5. DO NOT CONSTRUCT CONTRACTION JOINT THROUGH BOND BEAM AT THE FOLLOWING LOCATIONS (TOP WALL, FLOOR LINE, AND ROOF LINE). INTERMEDIATE BOND BEAMS, IF PRESENT, SHALL START/STOP AT CONTROL JOINT LOCATIONS.

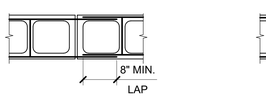


4 HR-RATED CONTROL JOINT
(IF NEEDED)

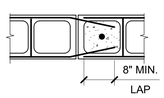


PREFORMED GASKET

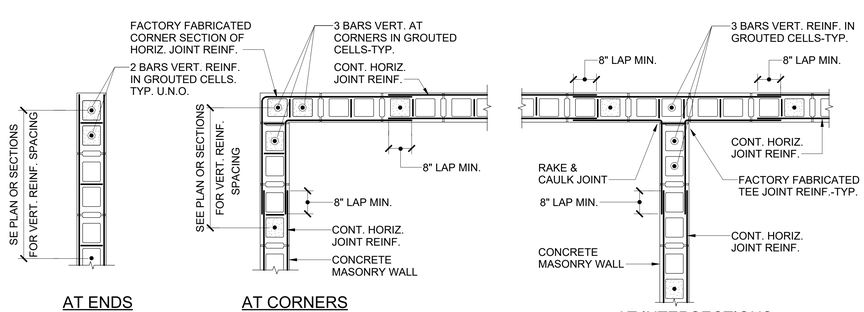
7 CMU WALL CONTRACTION/CONTROL JOINT DETAIL



MORTAR EMBEDMENT



GROUT EMBEDMENT

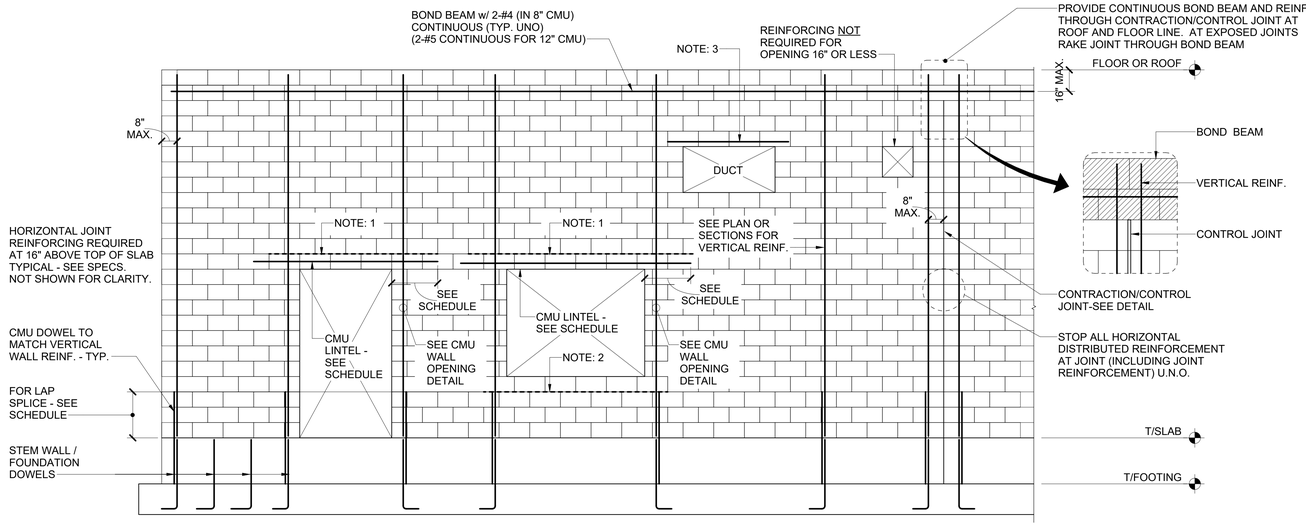


AT ENDS

AT CORNERS

AT INTERSECTIONS

6 CMU WALL HORIZONTAL JOINT REINFORCEMENT DETAIL



NOTE:
1. ADD HORIZONTAL JOINT REINFORCEMENT ABOVE LINTEL. EXTEND 4'-0" EACH SIDE OF OPENING.
2. ADD HORIZONTAL JOINT REINFORCEMENT BELOW CMU SILL. EXTEND 4'-0" EACH SIDE OF OPENING.
3. FOR MECHANICAL/PLUMBING PENETRATIONS, PROVIDE LINTEL OVER CMU OPENING PER UNMARKED CMU LINTEL SCHEDULE.

1 TYPICAL CMU WALL REINFORCING ELEVATION

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101 old lotzyefts avenue lexington, kentucky 40502 p 859.254.4018

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Structural Design Group
Consulting Structural Engineers
Kentucky, Tennessee, Ohio, Florida, Arizona, Texas
www.sdg-pllc.com
SDG Project No: 2025-172.00

MASONRY SECTIONS AND DETAILS
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
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Lexington, KY Office
p 859.253.0892
Structural Engineer:
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MASONRY SECTIONS AND DETAILS
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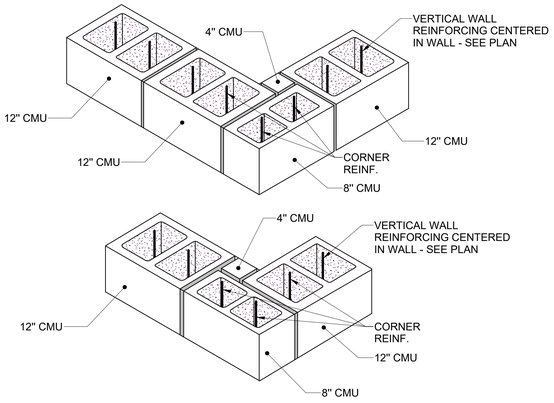
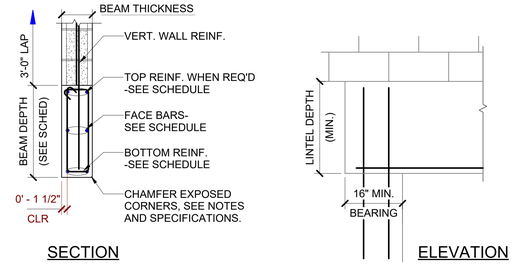


ALTERNATE CORNER PER VERTICAL COURSE AS SHOWN

7 CORNER DETAIL AT 12-INCH CMU

MARKED CONCRETE BEAM LINTEL SCHEDULE							
MARK	WALL THICK'S	LINTEL DEPTH	REINFORCEMENT				REMARKS
			TOP	BOTTOM	VERTICAL TIES	FACE BARS	
CB1	8"	16"	2-#6	2-#6	#3@12"	2-#5	-----
CB2	12"	16"	2-#6	2-#6	#3@12"	2-#5	-----

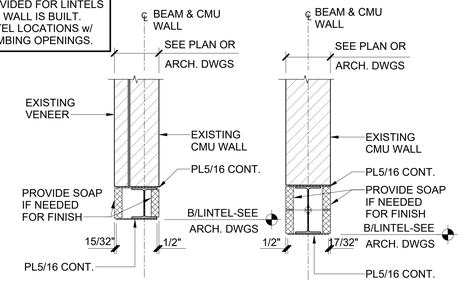
NOTE:
1. FILL CMU CORES AT LINTEL BEARING w/ 2500 psi COARSE GROUT REINF. AS SHOWN ON PLANS OR DETAILS
2. ALL EXPOSED CONCRETE LINTELS SHALL HAVE A SMOOTH RUBBED FINISH, SEE ARCHITECTURAL DRAWINGS FOR OTHER REQUIREMENTS.



SECTION ELEVATION

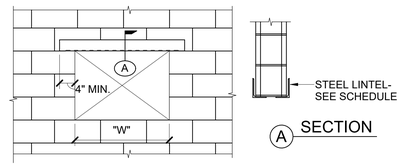
5 CONCRETE BEAM SCHEDULE AND DETAILS

NOTE:
DETAILS ARE PROVIDED FOR LINTELS INSTALLED AFTER WALL IS BUILT. COORDINATE LINTEL LOCATIONS w/ MECH./ELEC./PLUMBING OPENINGS.



WIDTH OF OPENING "W"	STEEL LINTEL
TO 1'-0"	NONE
1'-1" TO 3'-4"	L5x3x5/16 (LLV) BOTH SIDES
OVER 3'-4" TO 6'-0"	USE BEAM - W8x24

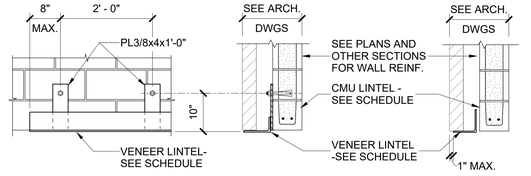
NOTE:
IF LINTEL IS EXPOSED TO VIEW, USE BEAM IN LIEU OF ANGLE.



3 TYPICAL LINTEL DETAIL FOR OPENING IN EXISTING CMU WALL

VENEER LINTEL SCHEDULE WITH CMU		
OPENING WIDTH	ANGLE SIZE	REMARKS
0'-0" TO 4'-0"	L5x3 1/2x 5/16 (LLH)	LOOSE
4'-1" TO 8'-1"	L5x5x 5/16	LOOSE
OVER 8'-1"	L7x4x 1/2	BOLTED w/ 5/8" DIA. SCREW ANCHORS @ 2'-0" (5" EMBED)

NOTE: 8" MIN. BEARING EACH END-TYP.
STEEL EXPOSED TO ELEMENTS SHALL BE GALVANIZED.



ELEVATION SECTION SECTION

BOLTED LINTEL LOOSE LINTEL

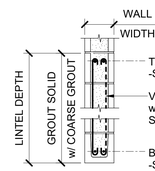
2 VENEER LINTEL SCHEDULE WITH CMU

MARKED "LX" CMU LINTEL SCHEDULE						
MARK	WALL THICK'S	LINTEL DEPTH	REINFORCEMENT			
			BOTTOM	TOP	VERTICAL	BEARING AND LENGTH
L1	8	8	2-#5	-	-	8"
L2	8	16	2-#5	-	-	8"
L3	8	24	2-#5	-	-	16"
L4	12	16	2-#5	-	-	16"
L5	12	32	2-#6	-	-	16"
L6	8	32	2-#5	-	-	16"

NOTE:
1. FILL CMU CORES AT LINTEL BEARING w/ 2500 psi COARSE GROUT. REINFORCE JAMBS w/ FULL HEIGHT REINFORCING PER CMU WALL OPENING DETAIL.

UNMARKED CMU LINTEL SCHEDULE			
WALL OPENING	LINTEL DEPTH	REINFORCING	BEARING AND LENGTH
UP TO 4'-0"	8"	2-#4 BOTTOM	8"
4'-1" TO 6'-0"	8"	2-#5 BOTTOM	8"
6'-1" TO 8'-0"	16"	2-#5 BOTTOM	16"
8'-1" TO 10'-0"	16"	2-#6 BOTTOM	16"

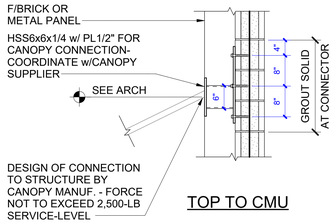
NOTE: 8" MIN. BEARING EACH END-TYP.



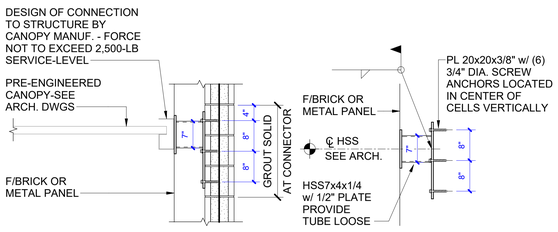
SECTION

1 CMU LINTEL SCHEDULES AND DETAILS

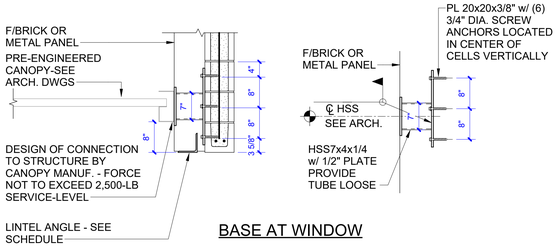
1. INTENT OF DETAIL IS TO LOCATE/ ADJUST PLATE TO PROVIDE ANCHORS IN CENTER OF CMU CELLS AND COORDINATE WITH BLOCK COURSING. TUBE IS TO BE PROVIDED LOOSE TO LOCATE FOR CANOPY NEEDS AND FIELD WELD TUBE TO PLATE.
2. DETAIL IS FOR PRICING PURPOSES AND NOT TO BE FABRICATED UNTIL CONNECTION IS VERIFIED WITH CANOPY MANUFACTURER PROVIDED REACTIONS.
3. CANOPY SUPPLIER TO COORDINATE NUMBER OF CONNECTION POINTS WITH MAXIMUM CONNECTION LOAD GIVEN IN DETAILS BELOW.



TOP TO CMU



BASE AT CMU



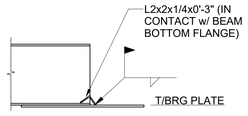
BASE AT WINDOW

6 CANOPY CONNECTION DETAILS

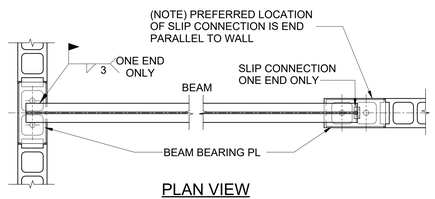
STEEL BEAM BEARING PLATE		
CMU WALL	PLATE SIZE	ANCHORS
8" CMU	PL3/8x7x1'-4"	2-1/2" DIA. x 0'-6" HDD STUDS
12" CMU	PL3/8x11"x1'-4"	4-1/2" DIA. x 0'-6" HDD STUDS

NOTE:
IF BEAM BEARS ON MASONRY WALL EACH END, PROVIDE SLIP CONNECTION AT ONE END AND FIXED CONNECTION AT OTHER END (SEE DETAILS FOR PREFERRED LOCATIONS). IF BEAM FRAMES TO STEEL COLUMN ON ONE END AND BEARS ON MASONRY AT OTHER END, PROVIDE SLIP CONNECTION AT END WHERE BEAM BEARS ON MASONRY.

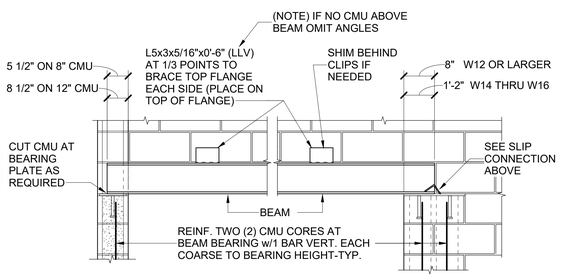
PLAN



SLIP CONNECTION DETAIL AT ONE END OF BEAM



PLAN VIEW



ELEVATION VIEW

4 TYPICAL STEEL BEAM BEARING ON CMU WALL

rosstarrant architects
101 old lotoyette avenue lexington, kentucky 40502 p 859.254.4018

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Moraine, Ohio 45439
www.sdg-ohio.com
SDG Project No: 2025-17226

MASONRY SECTIONS AND DETAILS
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
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Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

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Drawn By: CH/DH/RP
Rev'd By: CA/LG

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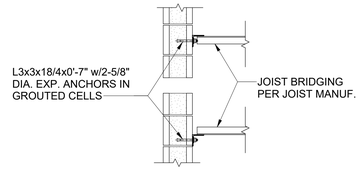
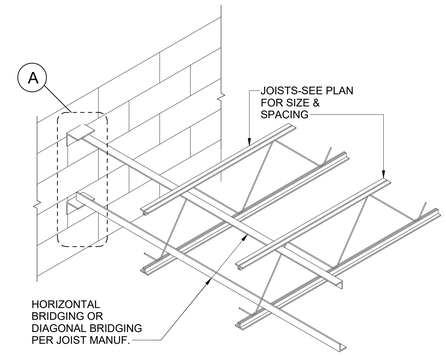
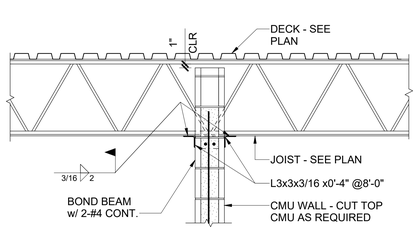
NOTE:
1. DO NOT WELD BRIDGING TO JOIST WEB MEMBERS.
2. DO NOT HANG ANY MECHANICAL, ELECTRICAL, ETC. FROM BRIDGING.



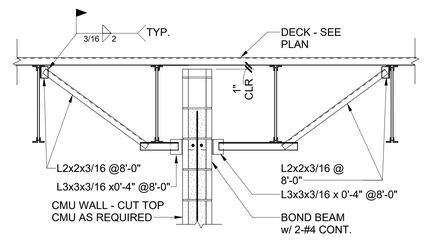
A DETAIL



2 JOIST BRIDGING DETAIL

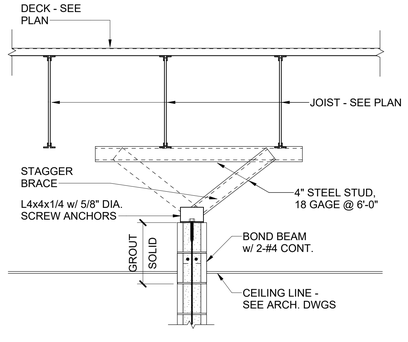


1D CMU PERPENDICULAR TO JOIST

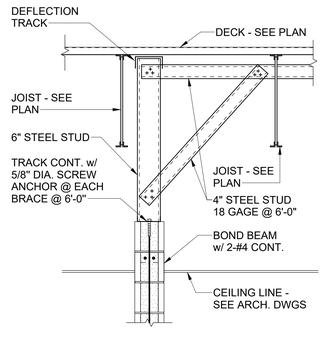


1B CMU PARALLEL TO JOIST

WALLS EXTEND TO UNDERSIDE OF DECK



1C CMU PARALLEEL TO DECK



1A CMU PARALLEL TO DECK

WALLS NOT TO EXTEND TO UNDERSIDE OF DECK

NOTE:
1. REFER TO ARCH. DRAWINGS FOR HEIGHT OF WALL.
2. PROVIDE BRACING AT TOP OF ANY WALL WHEN THE LENGTH OF THE WALL BETWEEN INTERSECTING WALLS EXCEEDS 20 FEET.

1 TYPICAL CMU PARTITION BRACING DETAILS WITH STEEL JOISTS TO ROOF

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101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

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Louisville, Kentucky 40206
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FOR:
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LEBANON, KENTUCKY

M.E.&P. Engineer:
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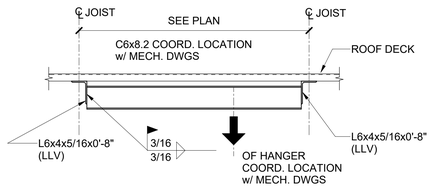
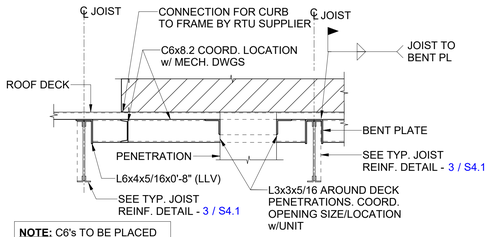
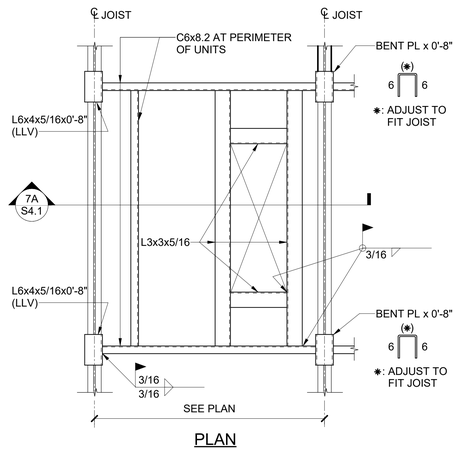


TYP. SECTION AT SUSPENDED MECHANICAL UNITS



NOTE: C6's TO BE PLACED HARD TO UNDERSIDE OF ROOF DECK

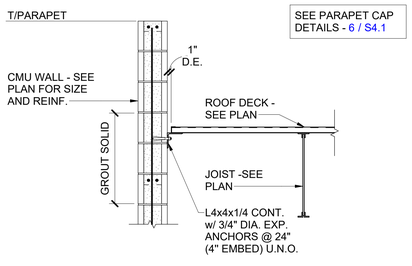
7A SECTION



PLAN

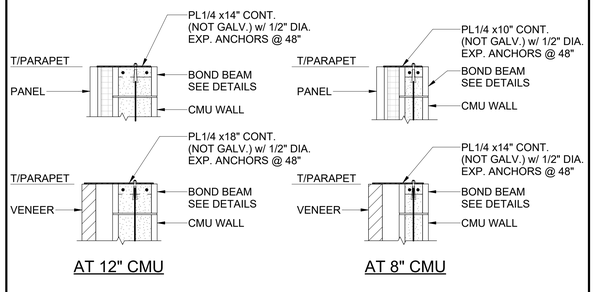
TYPICAL DETAILS AT ROOF TOP UNITS

7 ROOF FRAMING DETAILS AT MECHANICAL UNITS



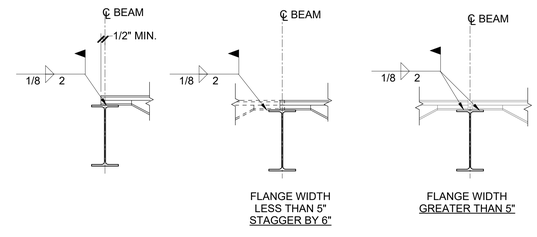
AT JOIST LEDGE ANGLE

8 TYPICAL DECK EDGE DETAILS AT ROOF

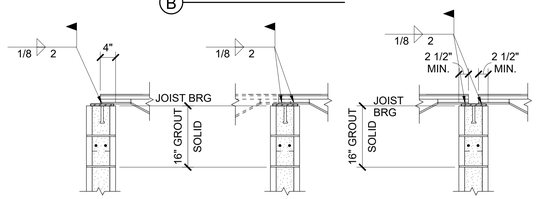


AT 12" CMU AT 8" CMU

6 PARAPET DETAILS

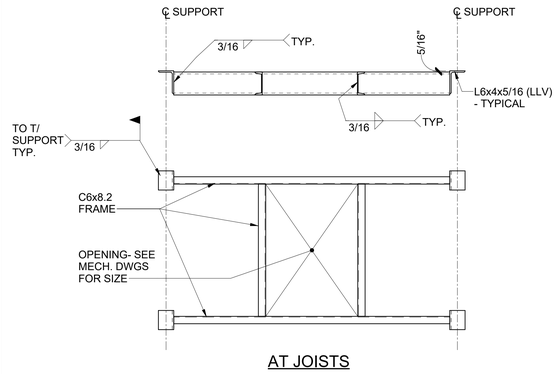


B AT STEEL

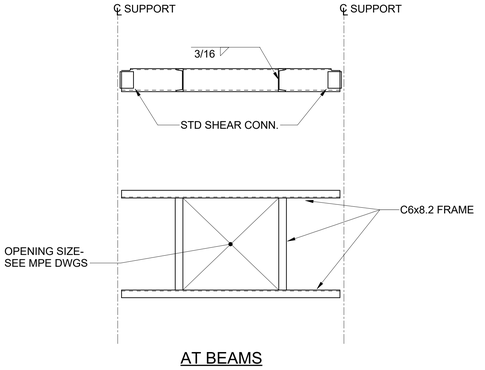


A AT CMU

5 TYPICAL JOIST BEARING DETAILS



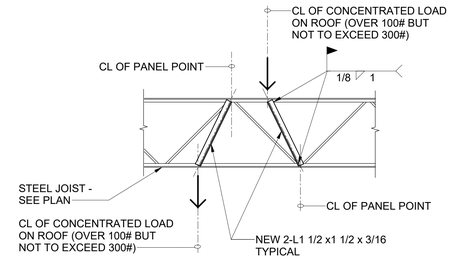
AT JOISTS



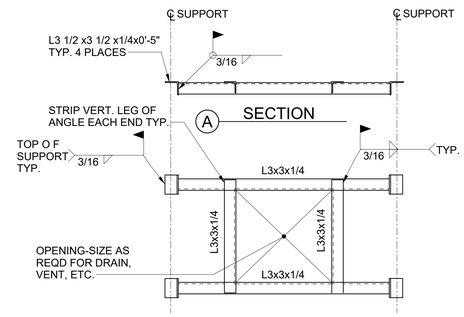
AT BEAMS

4 CHANNEL ROOF OPENING FRAME

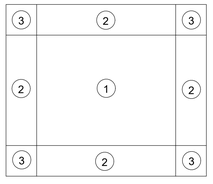
NOTE:
TOTAL OF ONLY 2 CONCENTRATED LOADS MAY BE APPLIED TO ONE JOIST



3 TYPICAL JOIST REINFORCEMENT (FOR CONCENTRATED LOADS)



2 ROOF OPENING FRAME FOR OPENINGS UP TO 14" AS NOTED



ROOF PLAN

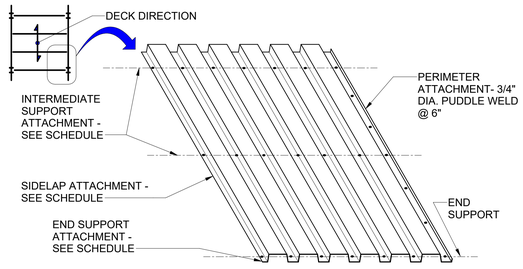
ZONE LEGEND

1. INTERIOR ZONE
2. PERIMETER ZONE
3. CORNER ZONE

NOTE:
SEE WIND PRESSURE DIAGRAMS FOR DETAILED INFORMATION ON WIND ZONE LOCATIONS

ROOF DECK ATTACHMENT SCHEDULE

ZONE	SIDELAP	INTERMEDIATE SUPPORT	END SUPPORT
1	#10 SELF-TAPPING SCREWS @ 12"	36/4 PATTERN w/ 3/4" DIA. PUDDLE WELDS	———
2	#10 SELF-TAPPING SCREWS @ 12"	36/4 PATTERN w/ 3/4" DIA. PUDDLE WELDS	36/7 PATTERN w/ 3/4" DIA. PUDDLE WELDS
3	#10 SELF-TAPPING SCREWS @ 12"	36/7 PATTERN w/ 3/4" DIA. PUDDLE WELDS	36/7 PATTERN w/ 3/4" DIA. PUDDLE WELDS



1 1/2" TYPE "B" DECK - GALVANIZED

NOTE:
PROVIDE VENTED ROOF DECK COORDINATE W/ LIGHTWEIGHT INSULATED MFR.

1 ROOF DECK ATTACHMENT DETAIL
1 1/2" TYPE B DECK - GALV

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SDG Project No: 2018-17226

ROOF FRAMING SECTIONS AND DETAILS
FOR:
MARION COUNTY ATC - RENOVATION & ADDITION
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

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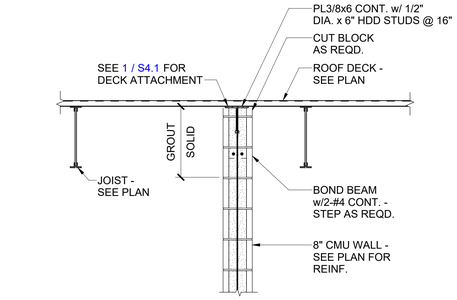

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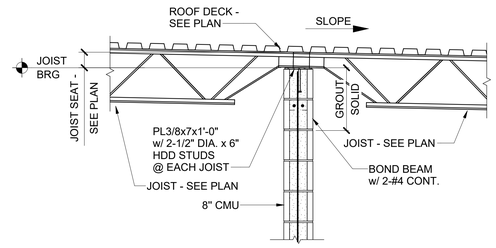
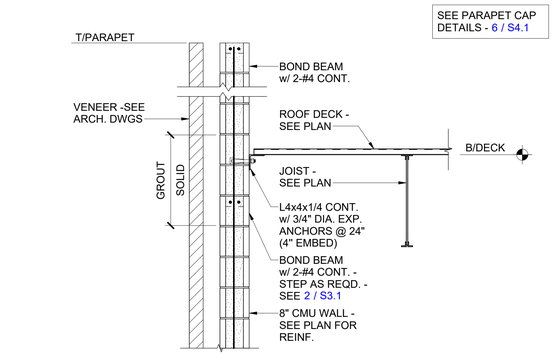
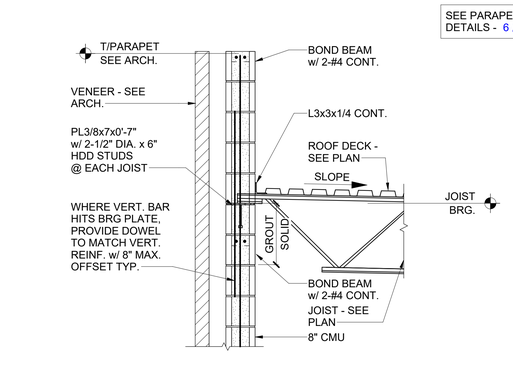


3 SECTION



2 SECTION



1 SECTION

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SDG Project No: 2025-172.00

ROOF FRAMING SECTIONS AND DETAILS

MARION COUNTY ATC - RENOVATION & ADDITION

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LEBANON, KENTUCKY

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Rev'd By:	CA/LG

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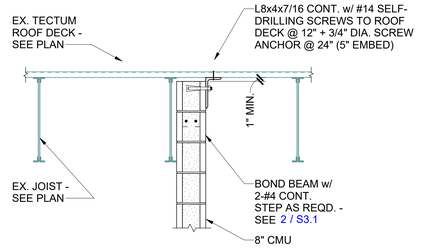
S4.2

ROOF FRAMING SECTIONS AND DETAILS
DATE ISSUED:
NOVEMBER 7, 2025



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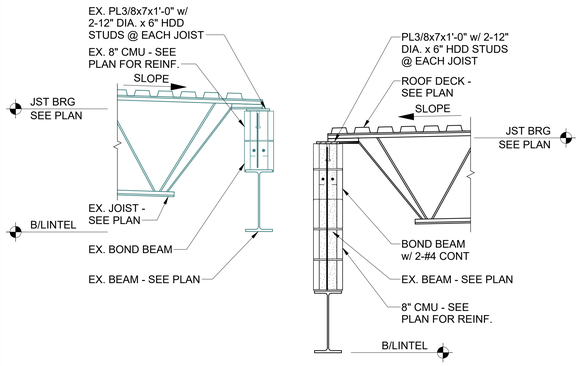

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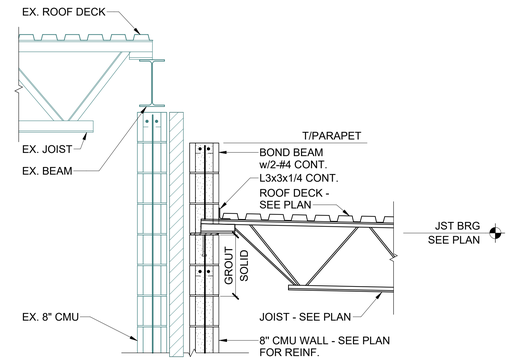

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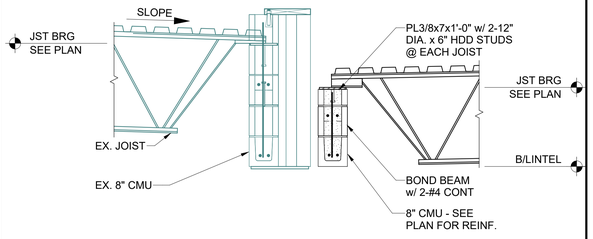

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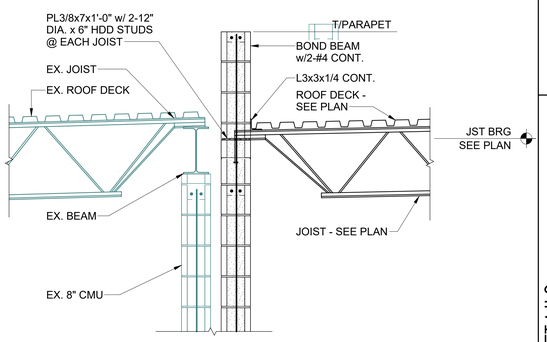

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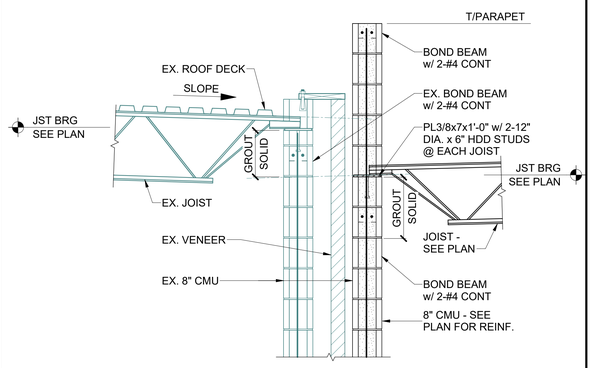

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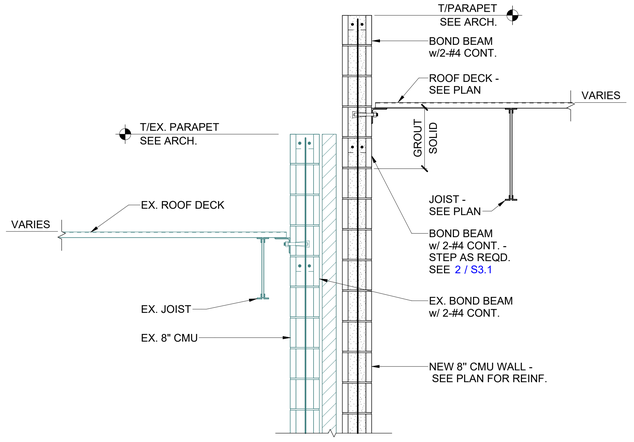

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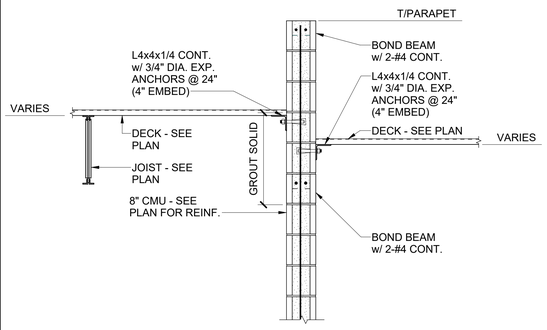

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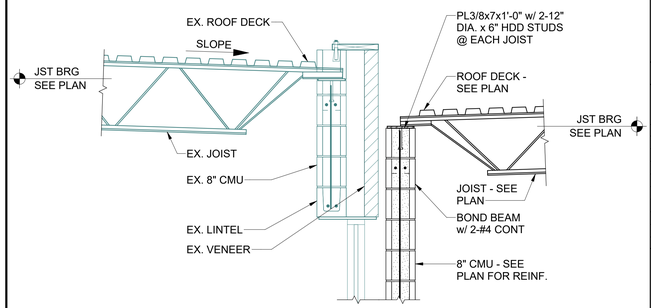

1 SECTION

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

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Structural Design Group
Consulting Structural Engineers
1700 Eastpoint Parkway, Suite 200
Louisville, Kentucky 40223
www.sdg-pllc.com

SDG Project No: 2025-17120

ROOF FRAMING SECTIONS AND DETAILS
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG

Project No:	25015
Drawn By:	CH/DH/RP
Rev'd By:	CA/LG

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ROOF FRAMING SECTIONS AND DETAILS
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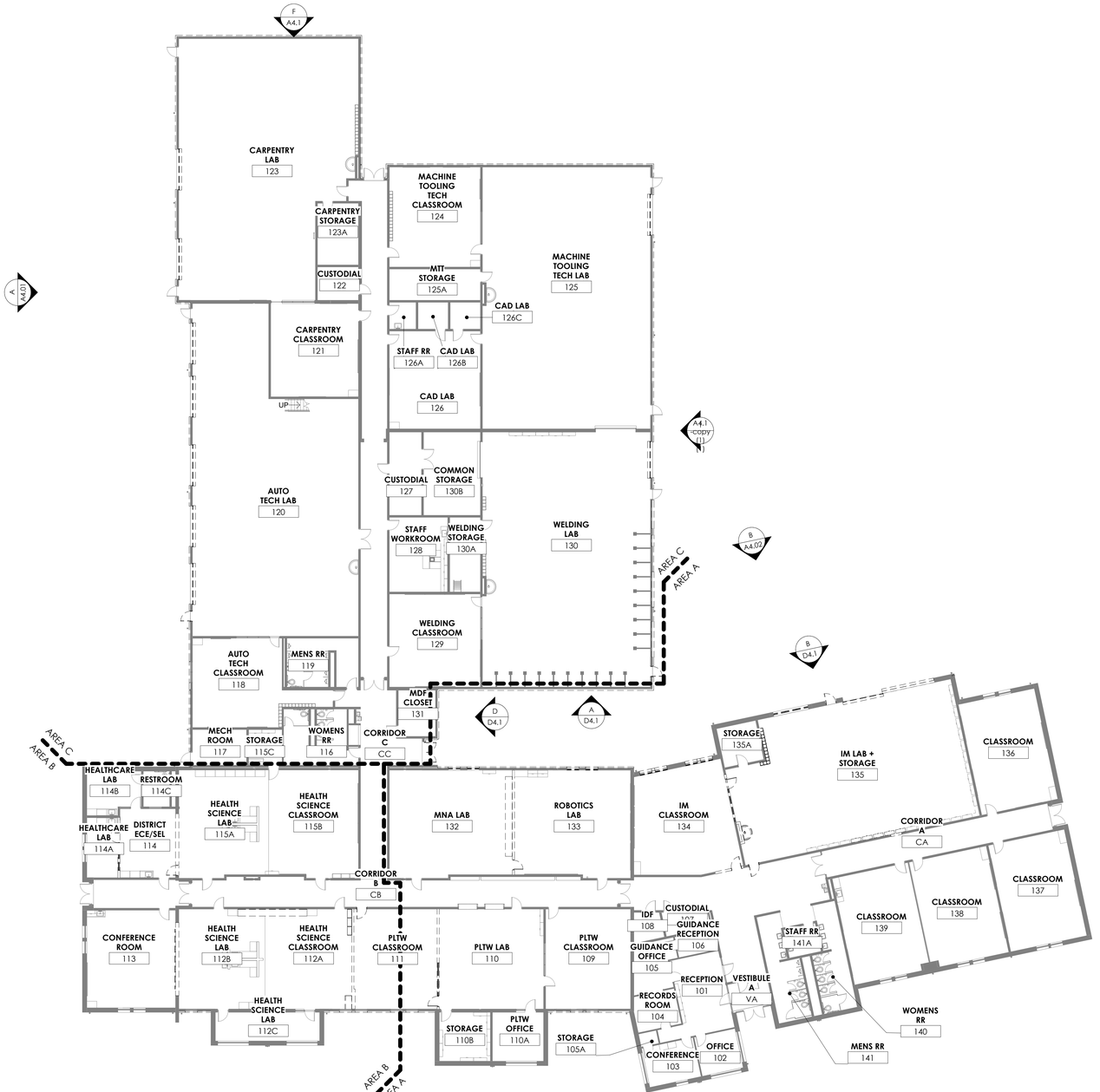

FIRST FLOOR PLAN DEMOLITION PLAN
1/16" = 1'-0"
A D1.0

GENERAL DEMOLITION NOTES

1. THESE DEMOLITION PLANS ARE MEANT TO BE A CONVENIENCE TO THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION NECESSARY FOR INSTALLATION OF NEW WORK WHETHER SHOWN HERE OR NOT.
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3. REFER TO THE PHASING DRAWING FOR SEQUENCE OF DEMOLITION AND NEW WORK.
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5. WHERE WALLS OR OTHER ITEMS ARE REMOVED, CLEAN AND REPAIR FLOORS TO FLUSH CONDITION SUITABLE TO RECEIVE FLOOR FINISH. WHERE MASONRY WALLS EXTEND THROUGH SLAB AND REST ON FOOTING, REMOVE BLOCK TO MINIMUM OF 4" BELOW FINISH FLOOR. FILL FLUSH WITH CONCRETE. PROVIDE MIN. 4" CONCRETE FILL AT ABANDONED PIPES OR OTHER OPENINGS IN THE FLOOR SLABS WHICH ARE EXPOSED OR CREATED BY OTHER DEMOLITION. GRIND TO FLUSH AS REQD.
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10. WHERE EXISTING EQUIPMENT OR CASEWORK IS REMOVED, REMOVE ALL ASSOCIATED ATTACHMENT DEVICES, ANCHORS ETC. PATCH AND REPAIR EXISTING FINISHES.
11. SEE NEW WORK PLANS FOR NEW WORK TO BE INSTALLED.

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

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REFERENCE DEMOLITION FLOOR PLAN
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P. Engineer:
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Lexington, KY Office
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Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No:	25015
Drawn By:	BR / HS
Rev'd By:	RB

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REFERENCE DEMOLITION FLOOR PLAN
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12/04/25

REVISIONS

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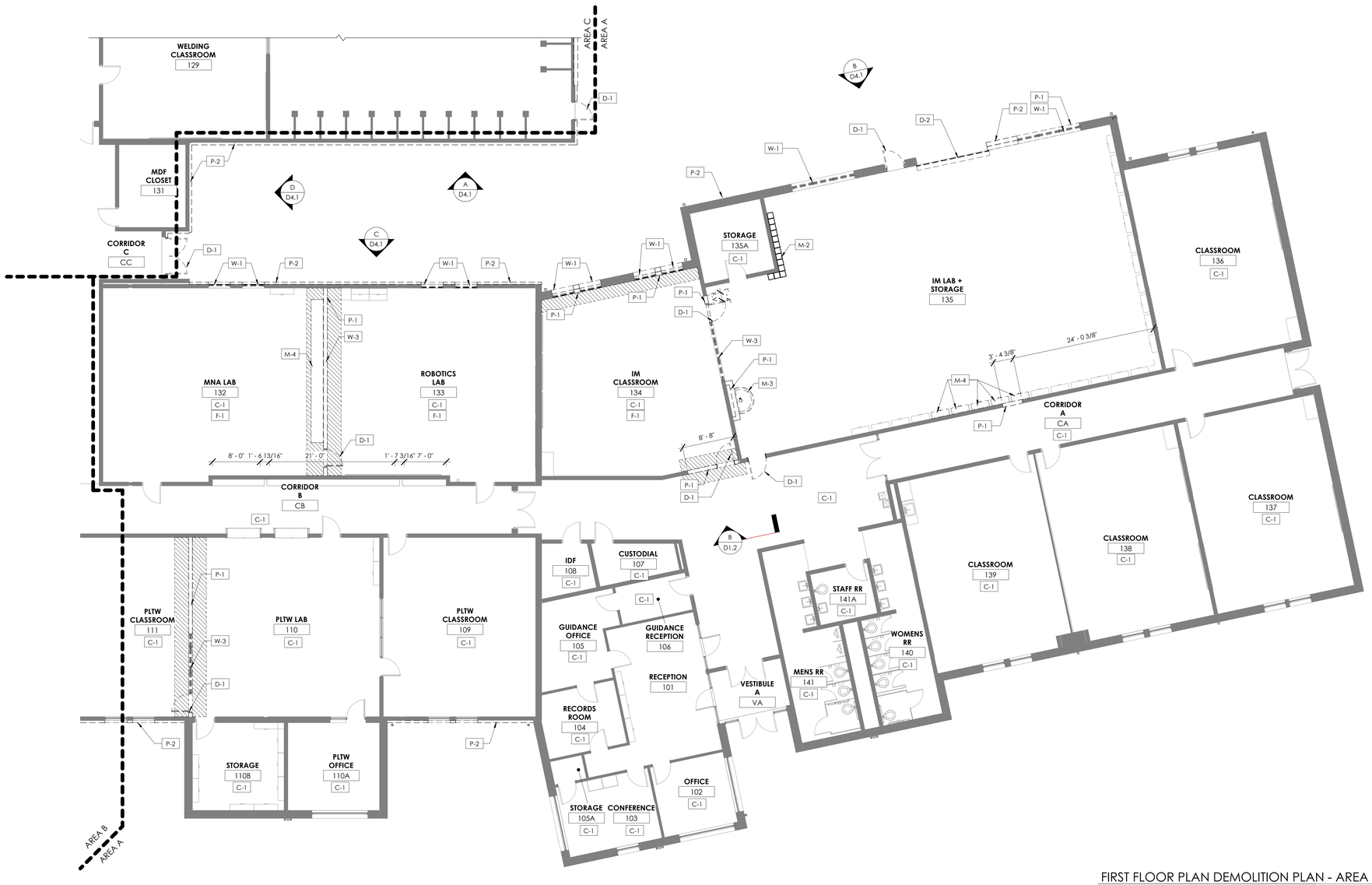

FIRST FLOOR PLAN DEMOLITION PLAN - AREA A
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

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11. SEE NEW WORK PLANS FOR NEW WORK TO BE INSTALLED.

ROOF DEMOLITION NOTES

ROOF DEMOLITION CATEGORY:	
R-1	REMOVE AND DISPOSE OF EXISTING 4 PLY BUILT UP ROOFING AND INSULATION DOWN TO EXISTING METAL DECK. AREA SHOWN AS HATCHED ON DEMOLITION PLAN.
R-2	EXISTING VENTS, EQUIPMENT OR OTHER ROOFTOP PENETRATIONS TO REMAIN, U.N.O. REMOVE ANY PIPE BOOTS, FLASHING, AND SEALANTS AROUND EQUIPMENT. RAISE TO RECEIVE NEW ROOFING AND INSTULATION SYSTEM. REFER TO A3.1 SHEET FOR FURTHER INFORMATION.
R-3	REMOVE EXISTING GUTTER IN ITS ENTIRETY.
R-4	REMOVE EXISTING DOWNSPOUT IN ITS ENTIRETY. PATCH AND REPAIR WALL SURFACE WHERE DOWNSPOUT IS REMOVED.
R-5	REMOVE EXISTING ROOF TOP EQUIPMENT AND REINSTALL ON NEW ROOF CURB.
R-6	REMOVE EXISTING CHIMNEY TO ABOVE ROOF DECK. COORDINATE WITH NEW WORK.
R-7	REMOVE EXISTING METAL FASCIA/COPING. COORDINATE WITH NEW WORK.
R-8	EXISTING ROOF TO REMAIN. EXISTING ROOF IS CURRENTLY UNDER WARRANTY. ALL NEW WORK TO BE PERFORMED SHALL NOT VOID EXISTING WARRANTY.
R-9	REMOVE EXISTING TERMINATION BAR/COUNTER FLASHING/REGLET IN ITS ENTIRETY.
R-10	REMOVE AND SALVAGE EXISTING CANOPY STRUCTURE AND TURN OVER TO OWNER.

DEMOLITION NOTES

CEILING DEMOLITION NOTES:	
C-1	REMOVE EXISTING CEILING TILE & GRID IN ITS ENTIRETY.
DOOR DEMOLITION NOTES:	
D-1	REMOVE EXISTING METAL FRAME, DOOR(S), AND GLAZING IN ENTIRETY. REFER TO PLANS FOR NEW WORK
D-2	REMOVE EXISTING COILING DOOR IN ITS ENTIRETY.
FINISH DEMOLITION NOTES:	
F-1	REMOVE EXISTING RESILIENT FLOORING & BASE IN THEIR ENTIRETY.
MISCELLANEOUS DEMOLITION:	
M-1	REMOVE EXISTING EXTERIOR RAMP/STAIR/SLAB IN ENTIRETY. COORDINATE WITH NEW WORK. REFER TO SITE FOR MORE INFORMATION
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M-4	REMOVE EXISTING CASEWORK IN ENTIRETY
PARTITION DEMOLITION NOTES:	
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WINDOW DEMOLITION NOTES:	
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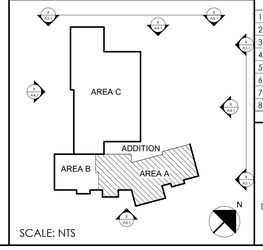
W-3	REMOVE EXISTING STOREFRONT WINDOWS. REFER TO NEW WORK FOR MORE DETAILS.

KEY PLAN



SCALE: NTS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

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DEMOLITION FLOOR PLAN - AREA A
RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
Lexington, KY Office
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BG 25-341

Project No:	25015
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Rev'd By:	RB

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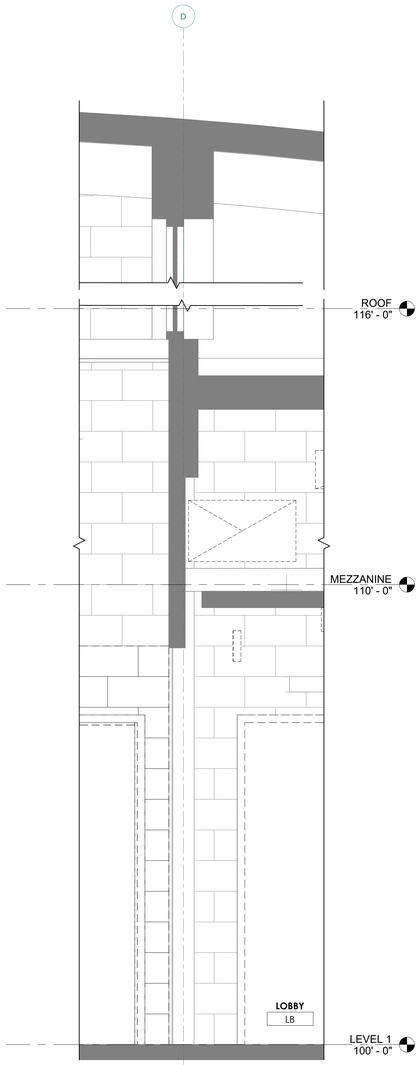
D1.1

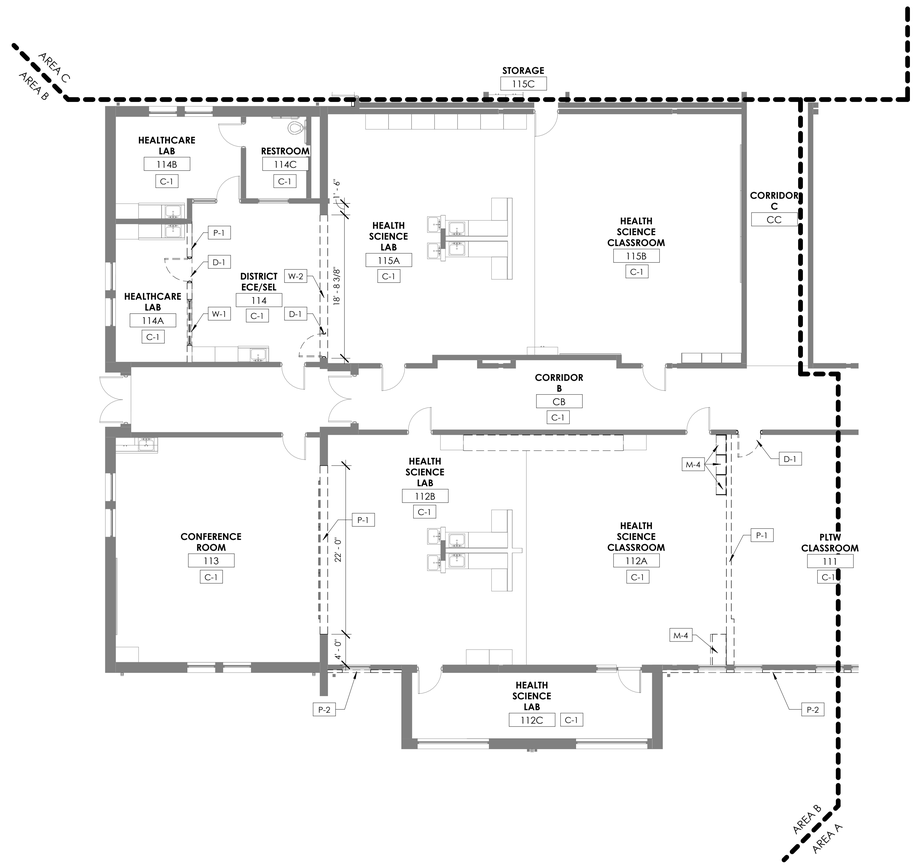
DEMOLITION FLOOR PLAN - AREA A
DATE ISSUED:
12/04/25

REVISIONS

#	DATE	DESCRIPTION



SECTION DEMOLITION
3/4" = 1'-0"
B
D1.2



FIRST FLOOR PLAN DEMOLITION PLAN - AREA B
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A
D1.2

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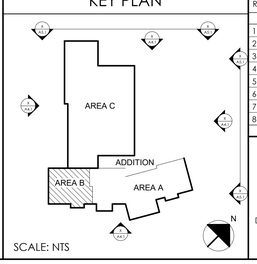
KEY PLAN



SCALE: NTS

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DEMOLITION FLOOR PLAN - AREA B
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REVISIONS

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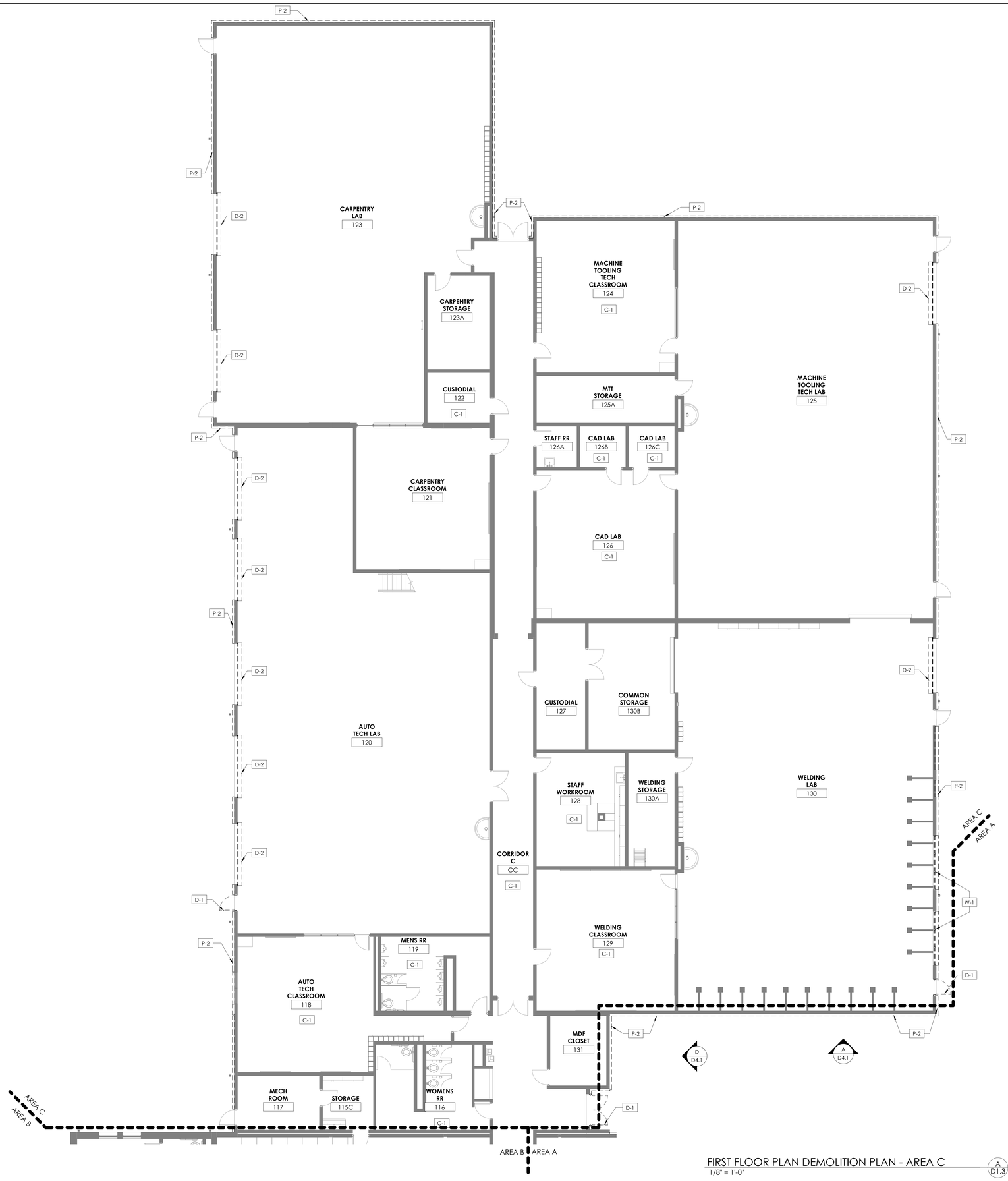


FIRST FLOOR PLAN DEMOLITION PLAN - AREA C
1/8" = 1'-0"
A D1.3

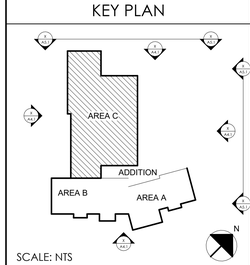
GENERAL DEMOLITION NOTES

1. THESE DEMOLITION PLANS ARE MEANT TO BE A CONVENIENCE TO THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION NECESSARY FOR INSTALLATION OF NEW WORK WHETHER SHOWN HERE OR NOT.
2. REFER TO SECTIONS AND DETAILS FOR ADDITIONAL DEMOLITION WORK REQUIRED IN SPECIFIC AREAS OF WORK.
3. REFER TO THE PHASING DRAWING FOR SEQUENCE OF DEMOLITION AND NEW WORK.
4. CONTRACTOR SHALL VERIFY LOAD BEARING CONDITIONS OF WALLS PRIOR TO THEIR DEMOLITION. ANY WALL FOUND TO BE LOAD BEARING WHICH IS NOT SO NOTED SHALL PROMPTLY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ITS DEMOLITION.
5. WHERE WALLS OR OTHER ITEMS ARE REMOVED, CLEAN AND REPAIR FLOORS TO FLUSH CONDITION SUITABLE TO RECEIVE FLOOR FINISH. WHERE MASONRY WALLS EXTEND THROUGH SLAB AND REST ON FOOTING, REMOVE BLOCK TO MINIMUM OF 4" BELOW FINISH FLOOR. FILL FLUSH WITH CONCRETE. PROVIDE MIN. 4" CONCRETE FILL AT ABANDONED PIPES OR OTHER OPENINGS IN THE FLOOR SLABS WHICH ARE EXPOSED OR CREATED BY OTHER DEMOLITION. GRIND TO FLUSH AS REQD.
6. ALL CONCRETE BLOCK, AND/OR BRICK VENEER INFILL OR PATCHES IN EXISTING MASONRY SHALL BE TOOTHED INTO ADJACENT SOUND MASONRY IN FULL UNITS U.N.O. PARTIAL MASONRY UNITS ADJACENT TO OPENINGS SHALL BE REMOVED AS REQD. TO ALLOW TOOTHING. WHERE NEW MASONRY CONSTRUCTION JOINS EXISTING MASONRY WALLS, REMOVE MASONRY UNITS AT CONNECTIONS AS NECESSARY TO PERMIT TOOTHING OF NEW CONSTRUCTION WHETHER OR NOT SUCH DEMOLITION IS SPECIFICALLY SHOWN ON DEMOLITION PLANS. OVER-DEMOLISH EXISTING MASONRY UNITS TO PROVIDE FINISHED OPENING. PROVIDE NEW MASONRY TIES AND HORIZONTAL JOINT REINFORCING PER SPECIFICATIONS. NEW MASONRY CONSTRUCTION SHALL PRECISELY MATCH ADJACENT EXISTING MASONRY IN COLOR, TEXTURE, PATTERN AND FINISH. U.N.O.
7. ALL HVAC GRILLES, LOUVERS, AND OTHER MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT WHICH ARE ABANDONED AND/OR CALLED OUT TO BE REMOVED SHALL BE COMPLETELY REMOVED. OPENINGS SHALL BE INFILLED WITH NEW CONSTRUCTION MATCHING EXISTING ADJACENT CONSTRUCTION. REFER TO NOTE '1' ABOVE AND MEP DRAWINGS OF RELATED ITEMS.
8. EXISTING DOORS AND FRAMES SHOWN IN WALL TO BE DEMOLISHED SHALL BE REMOVED. PATCH AS NOTED. REMOVE ALL OTHER MATERIALS ASSOCIATED WITH DOOR THAT WILL NOT BE USED.
9. REMOVE ALL WALL MOUNTED ITEMS WHICH ARE NOT SPECIFICALLY INDICATED TO BE REMOVED BUT WHICH INTERFERE WITH, OR ARE NOT PART OF FINISHED CONSTRUCTION. OTHER SALVAGED ITEMS WHICH ARE NOT INDICATED TO BE REUSED IN THE RENOVATION OR RETURNED TO THE OWNER MAY BE SALVAGED BY THE CONTRACTOR AND REMOVED FROM THE SITE.
10. WHERE EXISTING EQUIPMENT OR CASEWORK IS REMOVED, REMOVE ALL ASSOCIATED ATTACHMENT DEVICES, ANCHORS ETC. PATCH AND REPAIR EXISTING FINISHES.
11. SEE NEW WORK PLANS FOR NEW WORK TO BE INSTALLED.

DEMOLITION NOTES

CEILING DEMOLITION NOTES:	
C-1	REMOVE EXISTING CEILING TILE & GRID IN ITS ENTIRETY.
DOOR DEMOLITION NOTES:	
D-1	REMOVE EXISTING METAL FRAME, DOOR(S), AND GLAZING IN ENTIRETY. REFER TO PLANS FOR NEW WORK
D-2	REMOVE EXISTING COILING DOOR IN ITS ENTIRETY.
FINISH DEMOLITION NOTES:	
F-1	REMOVE EXISTING RESILIENT FLOORING & BASE IN THEIR ENTIRETY.
MISCELLANEOUS DEMOLITION:	
M-1	REMOVE EXISTING EXTERIOR RAMP/STAIR/SLAB IN ENTIRETY. COORDINATE WITH NEW WORK. REFER TO SITE FOR MORE INFORMATION
M-2	REMOVE EXISTING LOCKERS IN THEIR ENTIRETY AS SHOWN. COORDINATE WITH NEW WORK.
M-3	REMOVE EXISTING PLUMBING FIXTURE, LAMINATE PARTITION AND ALL TOILET ACCESSORY ITEMS. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
M-4	REMOVE EXISTING CASEWORK IN ENTIRETY
PARTITION DEMOLITION NOTES:	
P-1	REMOVE PORTION OF EXISTING WALL. EXISTING WALL MAY BE A BEARING WALL. SHORE AND BRACE AS NECESSARY PRIOR TO DEMOLITION.
P-2	REMOVE EXISTING MASONRY VENEER AND INSULATION IN THEIR ENTIRETY. COORDINATE WITH NEW WORK.
WINDOW DEMOLITION NOTES:	
W-1	REMOVE EXISTING WINDOW IN ENTIRETY. COORD. WITH NEW WORK.
W-2	REMOVE PORTION OF EXISTING WALL FOR NEW OPENING. COORD. WITH NEW WORK. EXISTING WALL MAY BE A BEARING WALL. SHORE AND BRACE AS NECESSARY PRIOR TO DEMOLITION.
W-3	REMOVE EXISTING STOREFRONT WINDOWS. REFER TO NEW WORK FOR MORE DETAILS.

KEY PLAN



SCALE: NTS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

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DEMOLITION FLOOR PLAN - AREA C
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No:	25015
Drawn By:	BR / HS
Rev'd By:	RB

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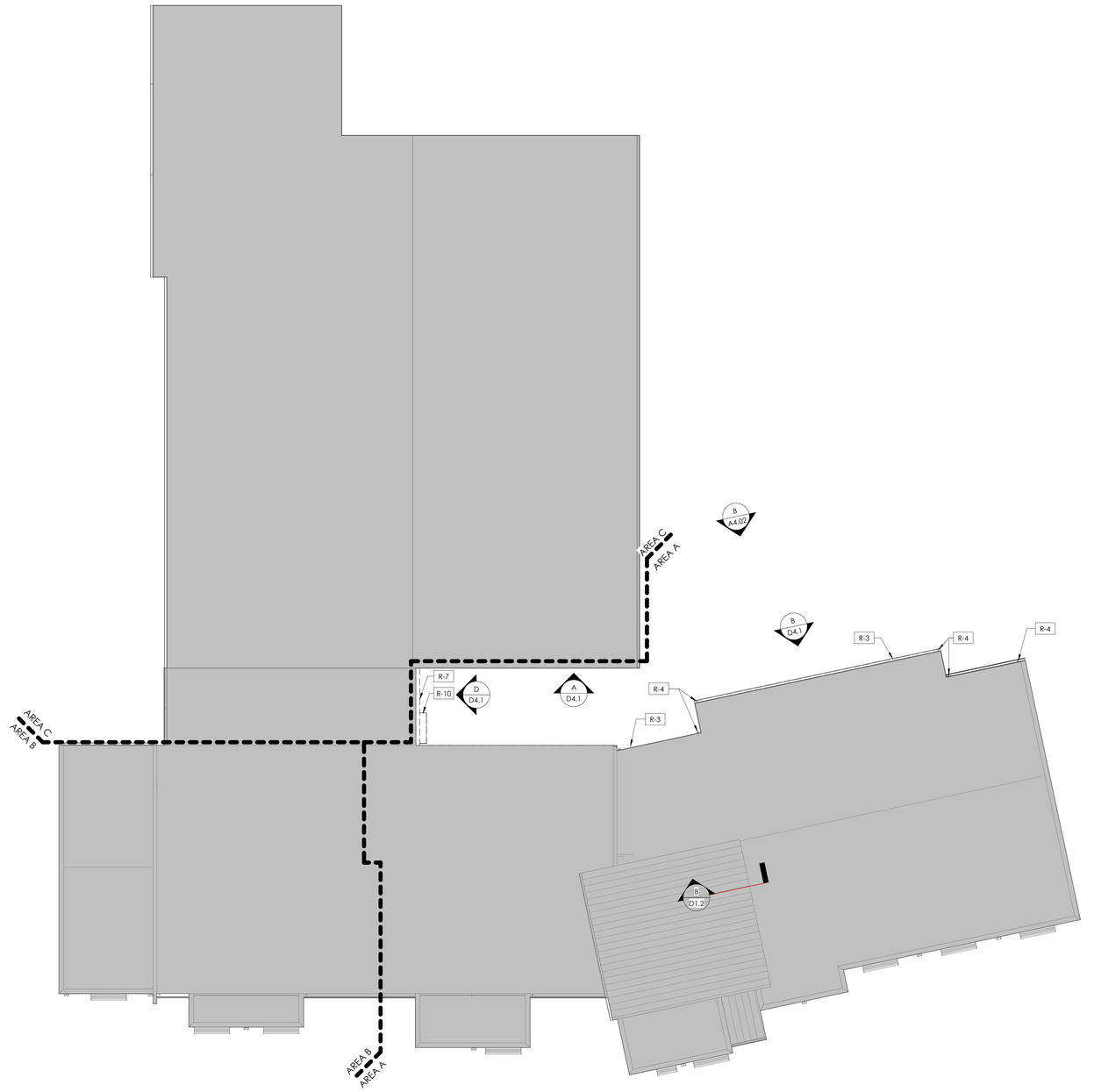
DEMOLITION FLOOR PLAN - AREA C
DATE ISSUED:
12/04/25

REVISIONS

#	DATE	DESCRIPTION



DEMOLITION ROOF PLAN
1/16" = 1'-0"
A
D3.1

ROOF DEMOLITION NOTES

1. THESE DEMOLITION PLANS ARE MEANT TO BE A CONVENIENCE TO THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION NECESSARY FOR INSTALLATION OF NEW WORK WHETHER SHOWN HERE OR NOT.
2. DRAWINGS ARE BASED UPON PARTIAL BUILDING PLANS PROVIDED BY OWNER AND UPON FIELD OBSERVATION.
3. THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO THE INSTALLATION OF THE NEW ROOFING SYSTEM. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEEDING.
4. THE BUILDING IS TO BE OCCUPIED DURING DEMOLITION AND PLACEMENT OF THE NEW ROOFING SYSTEM. THE OWNER IS TO HAVE COMPLETE USE OF THE FACILITIES EXCEPT FOR LIMITED AREAS AT LIMITED PERIODS OF TIME.
5. COORDINATE REMOVAL AND REINSTALLATION OF ROOF TOP STRUCTURES AND EQUIPMENT WITH OTHERS AS REQUIRED TO INSTALL NEW ROOFING SYSTEM. SEE DETAILS INDICATED ON NEW ROOF PLAN FOR ADDITIONAL INFORMATION. GENERAL CONTRACTOR IS RESPONSIBLE FOR EXTENDING ALL UTILITIES AND DUCTWORK AS REQUIRED TO RECONNECT EQUIPMENT FOR COMPLETE INSTALLATION. ALL MECHANICAL AND ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL, STATE, AND LOCAL BUILDING CODES.
6. THE CONTRACTOR IS TO MAINTAIN BUILDING IN A WEATHER-TIGHT CONDITION AGAINST INCLEMENT WEATHER AT ALL TIMES.
7. ANY ITEM NOT DESIGNATED AS "EXISTING" SHALL BE ASSUMED TO BE NEW.
8. CONTRACTOR IS TO VERIFY ALL EXISTING SLOPES PRIOR TO INSTALLATION OF NEW ROOFING.
9. ALL EXISTING ROOF TOP EQUIPMENT IS TO REMAIN UNLESS OTHERWISE NOTED.

ROOF DEMOLITION NOTES

ROOF DEMOLITION CATEGORY:	
R-1	REMOVE AND DISPOSE OF EXISTING 4 PLY BUILT UP ROOFING AND INSULATION DOWN TO EXISTING METAL DECK. AREA SHOWN AS HATCHED ON DEMOLITION PLAN.
R-2	EXISTING VENTS, EQUIPMENT OR OTHER ROOFTOP PENETRATIONS TO REMAIN, U.N.O. REMOVE ANY PIPE BOOTS, FLASHING, AND SEALANTS AROUND EQUIPMENT. RAISE TO RECEIVE NEW ROOFING AND INSTULATION SYSTEM. REFER TO A3.1 SHEET FOR FURTHER INFORMATION.
R-3	REMOVE EXISTING GUITTER IN ITS ENTIRETY.
R-4	REMOVE EXISTING DOWNSPOUT IN ITS ENTIRETY. PATCH AND REPAIR WALL SURFACE WHERE DOWNSPOUT IS REMOVED.
R-5	REMOVE EXISTING ROOF TOP EQUIPMENT AND REINSTALL ON NEW ROOF CURB.
R-6	REMOVE EXISTING CHIMNEY TO ABOVE ROOF DECK. COORDINATE WITH NEW WORK.
R-7	REMOVE EXISTING METAL FASCIA/COPING. COORDINATE WITH NEW WORK.
R-8	EXISTING ROOF TO REMAIN. EXISTING ROOF IS CURRENTLY UNDER WARRANTY. ALL NEW WORK TO BE PERFORMED SHALL NOT VOID EXISTING WARRANTY.
R-9	REMOVE EXISTING TERMINATION BAR/COUNTER FLASHING/REGLET IN ITS ENTIRETY.
R-10	REMOVE AND SALVAGE EXISTING CANOPY STRUCTURE AND TURN OVER TO OWNER.

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101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

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ROOF DEMOLITION PLAN

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:

MARION COUNTY BOARD OF EDUCATION

LEBANON, KENTUCKY

M.E.&P. Engineer:
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BG 25-341

Project No: 25015
Drawn By: BR / HS
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ROOF DEMOLITION PLAN

DATE ISSUED:
12/04/25

REVISIONS

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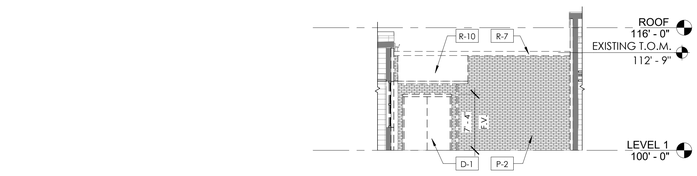

DEMOLITION ELEVATION
1/8" = 1'-0"
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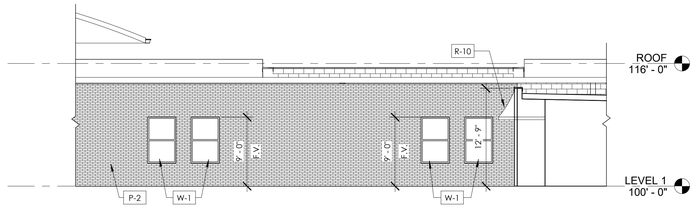
D4.1



DEMOLITION ELEVATION
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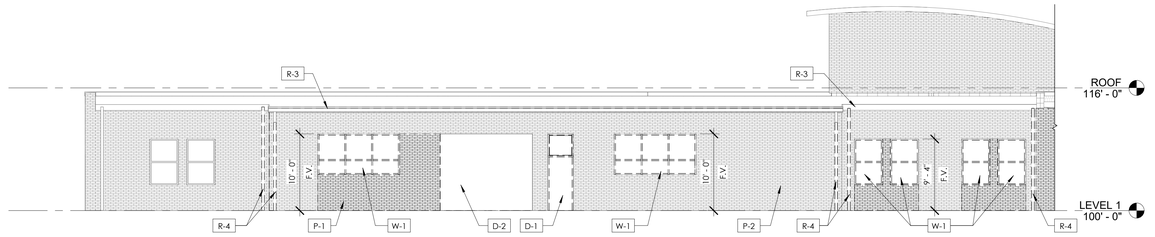
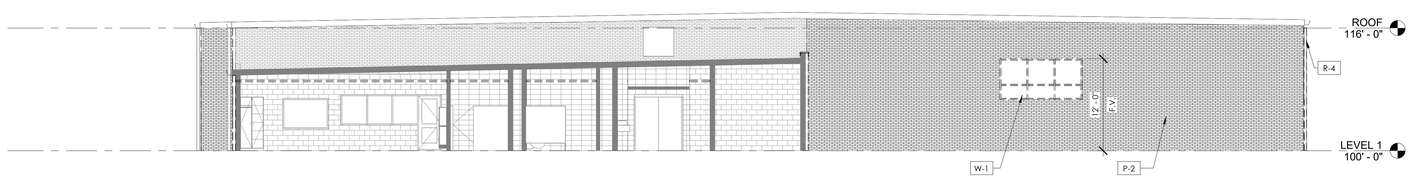


DEMOLITION ELEVATION
1/8" = 1'-0"
B
D4.1



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R-3	REMOVE EXISTING GUTTER IN ITS ENTIRETY.
R-4	REMOVE EXISTING DOWNSPOUT IN ITS ENTIRETY. PATCH AND REPAIR WALL SURFACE WHERE DOWNSPOUT IS REMOVED.
R-5	REMOVE EXISTING ROOF TOP EQUIPMENT AND REINSTALL ON NEW ROOF CURB.
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DOOR DEMOLITION NOTES:	
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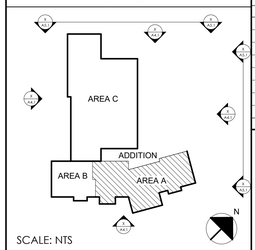
W-3	REMOVE EXISTING STOREFRONT WINDOWS. REFER TO NEW WORK FOR MORE DETAILS.

KEY PLAN



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DEMOLITION ELEVATIONS

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DEMOLITION ELEVATIONS

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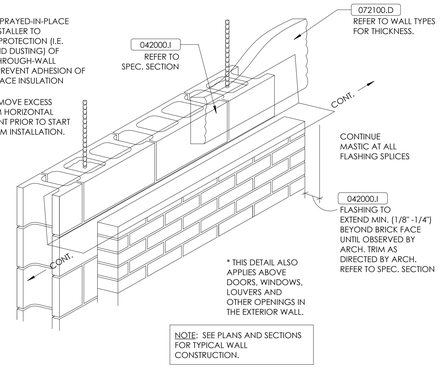

TYP. WALL FLASHING DETAIL (CMU-SPRAY-IN-PLACE)

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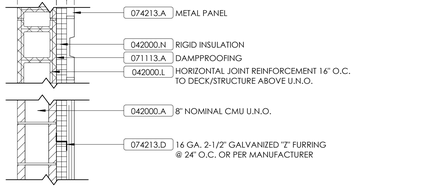
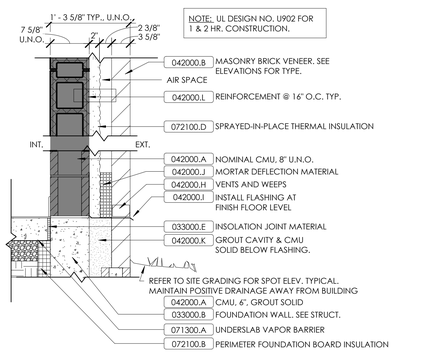


EXT. WALL:

WALL TYPE C		12" WALL TYPE C	
074213.A	METAL PANEL	074213.A	METAL PANEL
072100.A	RIGID INSULATION	072100.A	RIGID INSULATION
074213.A	"Z" FURRING	074213.A	"Z" FURRING
071113.A	DAMPPROOFING	071113.A	DAMPPROOFING
042000.A	8" NOMINAL CMU U.N.O.	042000.A	12" NOMINAL CMU U.N.O.
099000.A	PAINT ALL EXPOSED SURFACES U.N.O.	099000.A	PAINT ALL EXPOSED SURFACES U.N.O.

EXTERIOR WALL TYPE 'C'

SCALE : N.T.S.



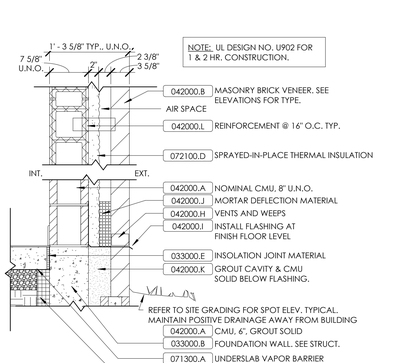
EXTERIOR MASONRY CAVITY WALL:

WALL TYPE B	
042000.B	MASONRY VENEER
AIR SPACE	
072100.D	THERMAL INSULATION
042000.A	NOMINAL 8" CMU U.N.O.
042000.L	MASONRY REINF.

WALL TYPE B	
042000.B	MASONRY VENEER
AIR SPACE	
072100.D	THERMAL INSULATION
042000.A	NOMINAL 12" CMU U.N.O.
042000.L	MASONRY REINF.

EXTERIOR WALL TYPE 'B'

SCALE : N.T.S.



EXTERIOR MASONRY CAVITY WALL:

WALL TYPE A	
042000.B	MASONRY VENEER
AIR SPACE	
072100.D	THERMAL INSULATION
042000.A	NOMINAL 8" CMU U.N.O.
042000.L	MASONRY REINF.

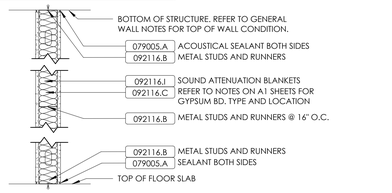
12" WALL TYPE A	
042000.B	MASONRY VENEER
AIR SPACE	
072100.D	THERMAL INSULATION
042000.A	NOMINAL 12" CMU U.N.O.
042000.L	MASONRY REINF.

EXTERIOR WALL TYPE 'A'

SCALE : N.T.S.

NOTE: ALL GYPSUM BOARD SURFACES 12" AND ABOVE SUSPENDED CEILING TO RECEIVE LEVEL 1 FINISH. EXTEND AND SEAL WALL TO BOTTOM OF DECK/STRUCTURE ABOVE ALL EXPOSED SURFACES TO RECEIVE PAINT U.N.O.

NOTE: AT 1 HOUR FIRE RATING, PROVIDE TYPE 'X' GYPSUM BD. (UL DESIGN No. U465) AT 2 HR. FIRE RATING, PROVIDE 2 LAYERS OF 5/8" TYPE 'X' GYPSUM BD., BOTH SIDES. (UL DESIGN NO. U411)



INTERIOR PARTITION:

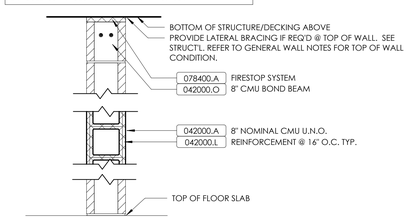
WALL TYPE 2			WALL TYPE 2			WALL TYPE 2A			WALL TYPE 2A		
092116.C	5/8"		092116.C	5/8"		092116.C	5/8"		092116.C	5/8"	
092116.B	3-5/8"	6"	092116.B	6"		092116.B	3-5/8"	6"	092116.B	6"	
092116.I	3"		092116.I	6"		092116.I	3"		092116.I	6"	
092116.C	5/8"		092116.C	5/8"							

INTERIOR GYPSUM BOARD PARTITION TYPE '2'

SCALE : N.T.S.

NOTE: IF JOIST OR BEAM LOCATION INTERFERES WITH NON-LOAD BEARING CMU WALL EXTENDING TO DECK ABOVE. EXTEND CMU WALL TO 8" ABOVE FINISHED CEILING HEIGHT AND CONTINUE WALL TO DECK ABOVE WITH WALL TYPE 2. REFER TO STRUC. FOR BRACING. EXTEND AND SEAL WALL TO BOTTOM OF DECK ABOVE PER GENERAL WALL NOTES. ALL EXPOSED SURFACES TO RECEIVE PAINT U.N.O.

NOTE: UL DESIGN NO. U906 FOR 1 & 2 HR. CONSTRUCTION



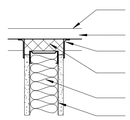
INTERIOR PARTITION:

WALL TYPE 1			WALL TYPE 1			WALL TYPE 1			WALL TYPE 1		
042000.A	8" NOMINAL CMU U.N.O.		042000.A	4" NOMINAL CMU U.N.O.		042000.A	6" NOMINAL CMU U.N.O.		042000.A	12" NOMINAL CMU U.N.O.	
042000.L	MASONRY REINF.		042000.L	MASONRY REINF.		042000.L	MASONRY REINF.		042000.L	MASONRY REINF.	

INTERIOR CMU PARTITION TYPE '1'

SCALE : N.T.S.

UL DESIGN NO. HW - D - 0034 - TOP OF WALL

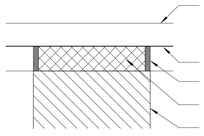


NOTE: INSTALL FIRESTOP SYSTEM PER MFR. TESTED SYSTEM. REFER TO WALL TYPES FOR NUMBER OF GYP. BD. LAYERS REQUIRED TO MEET RATING.

SMOKE PARTITION, 1HR/2HR FIRESTOP @ GWB

N.T.S.

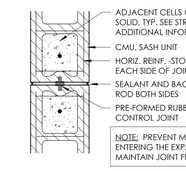
UL DESIGN NO. HW-D-0039 TOP OF WALL



NOTE: INSTALL FIRESTOP SYSTEM PER MFR. TESTED SYSTEM.

SMOKE PARTITION, 1HR/2HR FIRESTOP @ CMU

N.T.S.



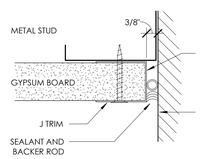
NOTE: PREVENT MORTAR FROM ENTERING THE EXPANSION JOINT. MAINTAIN JOINT FREE & CLEAR.

TYP. CMU EXPANSION JOINT DETAIL

N.T.S.

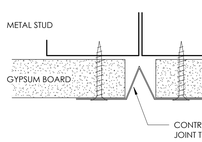
TYP. CMU CONTROL JOINT DETAIL

N.T.S.



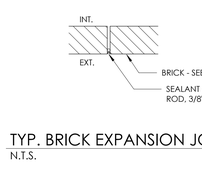
TYP. REVEAL @ GWB/MASONRY INTERSECTION

N.T.S.



TYP. REVEAL/EXPANSION JOINT DETAIL

N.T.S.



TYP. BRICK EXPANSION JOINT DETAIL

N.T.S.

ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR
ALT.	ALTERNATE
AL/ALUM.	ALUMINUM
ARCH.	ARCHITECT/ ARCHITECTURAL
BD.	BOARD
BIT.	BITUMINOUS
BLKG.	BLOCKING
BLDG.	BUILDING
B.O.	BOTTOM OF SOMETHING
BRG.	BEARING
C.J.	CONTRACTION/ CONSTRUCTION JOINT
CL.	CENTERLINE
CLG.	CEILING
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
DBL.	DOUBLE
DIA.	DIAMETER
DS.	DOWNSPOUT
DWG.	DRAWING
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM
E.J.	EXPANSION JOINT
EQ.	EQUAL
EQUIP.	EQUIPMENT
ELEV.	ELEVATOR
E.O.S.	EDGE OF SLAB
E.R.D.	EMERGENCY ROOF DRAIN OVERFLOW
E.T.R.	EXISTING TO REMAIN
EXP.	EXPANSION
EXT.	EXTERIOR
FAB.	FABRICATE/ FABRICATION
FDN.	FOUNDATION
F.F.E.	FINISH FLOOR ELEVATION
F.G.E.	FINISH GRADE ELEVATION
FIN.	FINISH
FLR.	FLOOR/ FLOORING
F.RT.	FIRE RETARDENT
FT.	FEET
F.V.	FIELD VERIFY
GA.	GUAGE
GALV.	GALVANIZED
GYP.	GYPSUM
HORZ.	HORIZONTAL
HT.	HEIGHT
INSUL.	INSULATION
INT.	INTERIOR
JT.	JOINT
LAM.	LAMINATE
MAS.	MASONRY
M.E.P.	MECHANICAL, ELECTRICAL, PLUMBING
MFR.	MANUFACTURER
MAT.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEM.	MEMBRANE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
N.A.	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.H.	OVERHEAD
OPP.	OPPOSITE
ORN.	ORNAMENTAL
PEN.	PENETRATION
PL.	PLATE
POLYISO.	POLYISOCYANURATE
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
RAD.	RADIUS
REINF.	REINFORCEMENT
REQD.	REQUIRED
REV.	REVISION/ REVISED
R.D.	ROOF DRAIN
SECT.	SECTION
SIM.	SIMILAR
SPECS.	SPECIFICATIONS
S.S.	STAINLESS STEEL
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURE/ STRUCTURAL
SYM.	SYMMETRICAL
SYS.	SYSTEM
T.O.	TOP OF SOMETHING
THK.	THICK
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
W.P.	WORK POINT
WT.	WEIGHT

SYMBOLS LEGEND:

0 / 0.00 — 0 / 0.00	BUILDING SECTION
0 / 0.00	SECTION CUT / DETAIL MARKER
DETAIL 0 / 0.00 DRAWING #	ELEVATION
DETAIL 0 / 0.00 DRAWING #	REFERENCE DETAIL
	SPOT ELEVATION
WOOD TYPE X	ROOF TYPES
X" WALL X TYPE	WALL TYPES. 'X" DENOTES SIZE OF CMU OR STUD.
0000	DOOR NUMBER
00	HOLLOW METAL WINDOW & DOOR FRAME TYPE
00	ALUMINUM WINDOW & STOREFRONT FRAME TYPE
00	DOOR ELEVATION TYPES
FE-1	WALL MOUNTED FIRE EXTINGUISHER (104400)
FE-2	SEMI-RECESSED CABINET WITH FIRE EXTINGUISHER (104400)
FE-3	WALL MOUNTED FIRE EXTINGUISHER, CLASS K (104400)

FIRE BARRIER TYPES:

SP	SMOKE TIGHT PARTITION : EXTEND PARTITION WALL TO DECK ABOVE, SEAL PERIMETER TO PROVIDE "SMOKE TIGHT INSTALLATION", SEAL ALL PENETRATIONS
1HR	1 HOUR RATING: PROVIDE FIRE SAFING AT VOIDS AT THE TOP PERIMETER OF THE PARTITION AND FIRESAFE ALL PENETRATIONS. VERIFY WITH STRUCTURAL DRAWINGS AND COORDINATE WITH WALL SECTIONS.
2HR	2 HOUR RATING: PROVIDE FIRE SAFING AT VOIDS AT THE TOP PERIMETER OF THE PARTITION AND FIRESAFE ALL PENETRATIONS. VERIFY WITH STRUCTURAL DRAWINGS AND COORDINATE WITH WALL SECTIONS.

GENERAL PLAN NOTES

1. (NIC)-NOT IN CONTRACT. PROVIDED BY OWNER AND INSTALLED BY OTHERS.
2. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE.
3. ALL DIMENSIONS ARE TO FACE OF STUDS, MASONRY OR TO CENTERLINE OF STRUCT'L STEEL UNLESS OTHERWISE NOTED. CONTACT ARCHITECT WITH ANY QUESTIONS REGARDING DIMENSIONS.
4. MASONRY DIMENSIONS ARE ACTUAL. EXTERIOR WALL DIMENSIONS ARE TO EXTERIOR FACE OF VENEER.
5. REFER TO ENLARGED PLANS FOR DIMENSIONS NOT SHOWN ON 1/8" PLANS.
6. ALL EXTERIOR WALLS ARE WALL TYPE 'A' U.N.O.
7. ALL INTERIOR PARTITIONS ARE WALL TYPE '1' U.N.O.
8. PROVIDE BULLNOSE UNITS AT ALL VERTICAL OUTSIDE CONCRETE BLOCK CORNERS U.N.O.
9. PARTITION TYPES SHALL MAINTAIN THEIR CONSTRUCTION AND RESPECTIVE SEPARATION RATING (IF ANY) FOR FULL HEIGHT. ALL MECH., ELEC., AND PLUMBING PENETRATIONS SHALL BE SEALED/SAFED/DAMPERED AS RQD. TO COMPLY W/ APPLICABLE CODES.
10. REFER TO STRUCTURAL DRAWINGS FOR TYPES, SIZES, LOCATIONS, CONNECTIONS, REINFORCEMENT AND OTHER REQ. PERTAINING TO STRUCTURAL COMPONENTS INDICATED.
11. REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. ALL EXTERIOR LINTELS ARE TO BE GALVANIZED AND PAINTED.
12. VERIFY RQD. DEPTH OF ALL RECESSED SLABS W/ APPROPRIATE FINISH FLOORING MANUFACTURER PRIOR TO PLACEMENT OF SLAB.
13. MASONRY OPENINGS IN CMU WALLS FOR DOORS ARE TYPICALLY LOCATED 8" FROM THE JAMB OPENING TO THE ADJACENT WALL U.N.O.
14. DOORS IN GYPSUM BOARD WALLS ARE TYPICALLY LOCATED 6" FROM THE DOOR JAMB OPENING TO THE ADJACENT WALL U.N.O.
15. WHERE DOORS HAVE 180 DEGREE SWING IN CMU WALL, PROVIDE 3/4" SET BACK FROM FACE OF WALL OF SWING SIDE. COORD. W/ MASON.

GENERAL WALL NOTES

1. REFER TO FLOOR PLANS FOR THE LOCATION OF PARTITION AND WALL TYPES DESCRIBED ON THIS DRAWING.
2. REFER TO STRUCTURAL DRAWINGS FOR OTHER REQUIREMENTS PERTAINING TO REINFORCED UNIT MASONRY.
3. CONTRACTOR SHALL INSTITUTE ALL MEASURES NECESSARY TO ACHIEVE WEATHER-TIGHTNESS OF EXTERIOR WALLS BY ALLOWING POSITIVE DRAINAGE OF WATER TO THE EXTERIOR TO OCCUR WHERE THROUGH-WALL FLASHING IS INDICATED OR RQD.
   A. KEEP ALL DRAINAGE CAVITIES IN CAVITY WALLS FREE OF MORTAR.
   B. EXTEND THROUGH-WALL FLASHING TO FACE OF MASONRY VENEER FOR OBSERVATION BY THE ARCHITECT.
   C. AT MASONRY VENEER, PROVIDE WEEPS AND CAVITY VENTS AT 24" O.C. HORZ. ALTERNATE LOCATIONS OF WEEPS W/ VENTS. DO NOT ALLOW WEEPS OR CAVITY VENTS TO BECOME CLOSED OFF.
   D. REFER TO THE SPECS. FOR MORE INFORMATION ON PLACEMENT AND INSTALLATION OF THROUGH-WALL FLASHING, WEEPS, AND CAVITY VENTS.
4. AT CAVITY WALL CONSTRUCTION, ADHESIVE INSTALL THROUGH-WALL FLASHING ON CMU OR SHEATHING OVER STUDS, UPWARD MIN. 6" AND PAN-UP THROUGH-WALL FLASHING AT ENDS MINIMUM 6". DO NOT MECHANICALLY FASTEN, PENETRATE, OR PUNCTURE THROUGH-WALL FLASHING. THROUGH-WALL FLASHING TO DIRECT ALL MOISTURE TO EXTERIOR FACE OF WALL.
5. U.N.O. ALL EXTERIOR AND INTERIOR MASONRY AND/OR MTL. STUD WALLS SHALL EXTEND FULL HEIGHT TO BOTTOM OF DECK AND BE SEALED. REFER TO REFLECTED CEILING PLANS. PROVIDE THE FOLLOWING CLOSURE MATERIALS AT TOP OF EXTERIOR AND INTERIOR MASONRY AND METAL STUD WALLS AND PARTITIONS.
   A. FULL-HEIGHT, NON-RATED MTL STUD/GYP PARTITION RUNNING PERPENDICULAR TO METAL DECK FLUTE/STRUCTURE: COPE GYP TO WITHIN 1/2" OF METAL DECK FLUTE. FILL METAL DECK FLUTE VOID COMPLETELY W/ SOUND ATTENUATION BLANKET MATERIAL. INSTALL CONT. ACOUSTICAL SEALANT BOTH SIDES OR PROVIDE COMPRESSIBLE NEOPRENE FILLER.
   B. FULL-HEIGHT, NON-RATED METAL STUD/GYP PARTITION RUNNING PARALLEL TO METAL DECK FLUTES/STRUCTURE: STOP GYP. TO WITHIN 1/2" OF METAL DECK. INSTALL CONT. ACOUSTICAL SEALANT BOTH SIDES OR PROVIDE COMPRESSIBLE NEOPRENE FILLER.
   C. FULL-HEIGHT, NON-RATED CMU WALL RUNNING PERPENDICULAR OR PARALLEL TO METAL DECK FLUTES/STRUCTURE: LAY CMU TO WITHIN 1" OF METAL DECK. FILL METAL DECK FLUTE VOID COMPLETELY WITH CUT-TO-FIT COMPRESSIBLE NEOPRENE FILLER OR SOUND ATTENUATION BLANKET MATERIAL & CONT. ACOUSTICAL SEALANT BOTH SIDES.
   D. FIRE-RATED FULL-HEIGHT WALLS: FILL ALL VOIDS AT METAL DECK/STRUCTURE ABOVE, W/ FIRE BLANKETS & INTUMESCENT SEALANT PER SECTION 078400. REFER TO DETAILS ON THIS SHEET.
   E. CMU & GYP. COLUMN SURROUNDS MAY BE STOPPED 12" ABOVE CEILING UNLESS PART OF A FIRE- OR SOUND-RATED WALL CONSTRUCTION.
6. PROVIDE CAULKED CONTROL JOINTS WHERE LOAD BEARING CMU ABUTS NON-LOAD BEARING CMU OR WHERE WALLS OF DIFFERENT HEIGHTS ABUT.

MATERIALS LEGEND:

CONCRETE	FINISHED WOOD
CONCRETE MASONRY UNIT	PLYWOOD
CLAY MASONRY UNIT	WOOD BLOCKING
SPLIT-FACE CONCRETE MASONRY UNIT	CAVITY WALL INSULATION/PERLITE ROOFING INSULATION
GROUND-FACE CONCRETE MASONRY UNIT	POLYISO. ROOFING INSULATION
CUT STONE	THERMAL, SOUND, OR FIRE BATT-INSULATION
STEEL	GYPSUM BOARD
ALUMINUM	SPRAY-IN-PLACE THERMAL INSULATION

MASTER MATERIAL REFERENCE

033000.A	Footing
033000.B	Foundation Wall
033000.C	Slab-on-Grade
033000.E	Isolation Joint Material
033000.I	Granular Sub-base
042000.A	Concrete Masonry Unit
042000.B	Face Brick
042000.H	Vents and Weeps
042000.I	Through Wall Flashing
042000.J	Mortar Deflection Material
042000.K	Grout
042000.L	Masonry Reinforcement
042000.N	Cavity Wall Insulation
042000.O	Bond Beam
051200.A	Structural Steel Member
053100.A	Roof Deck
061000.A	Wood Blocking
061000.B	Plywood Sheathing
064100.A	Custom Casework
064100.A13	Plastic Laminate Countertop
064100.C6	Solid-Surface Countertop & Backsplash
071113.A	Bituminous Dampproofing
071300.A	Underslab Vapor Barrier
072100.A	Cavity Wall Insulation
072100.B	Perimeter Foundation Board Insulation
072100.D	Sprayed-In-Place Thermal Insulation
072100.E	Extruded Polystyrene Board Insulation
072100.F	Transition Membrane
074213.A	Metal Wall Panels
074213.D	Subgirt/Z Furring
075200.A	SBS-Modified Bituminous Membrane Roofing System
077100.A	Fascia
077100.B	Coping
078400.A	Through-Penetration Fire Stop System
079005.A	Joint Sealant
081113.A	Steel Doors & Frames
081113.C	Steel Frame
083613.A	Sectional Door
084313.A	Aluminum Storefront Window
084313.B	Aluminum Storefront Framing
088000.A	Glazing
092116.A	Gypsum Board Assemblies
092116.B	Metal Studs and Runners
092116.C	Gypsum Board-Regular/Type 'X'
092116.I	Sound Attenuation Blankets
092116.N	Exterior Gypsum Roof Board
096513.A	Resilient Wall Base & Accessories
099000.A	Paint
102800.A	Toilet & Bath Accessories

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

NOT FOR CONSTRUCTION

GENERAL ARCHITECTURAL DETAILS
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No: 25015
Drawn By: BR / HS
Rev'd By: RB

SHEET RELEASE

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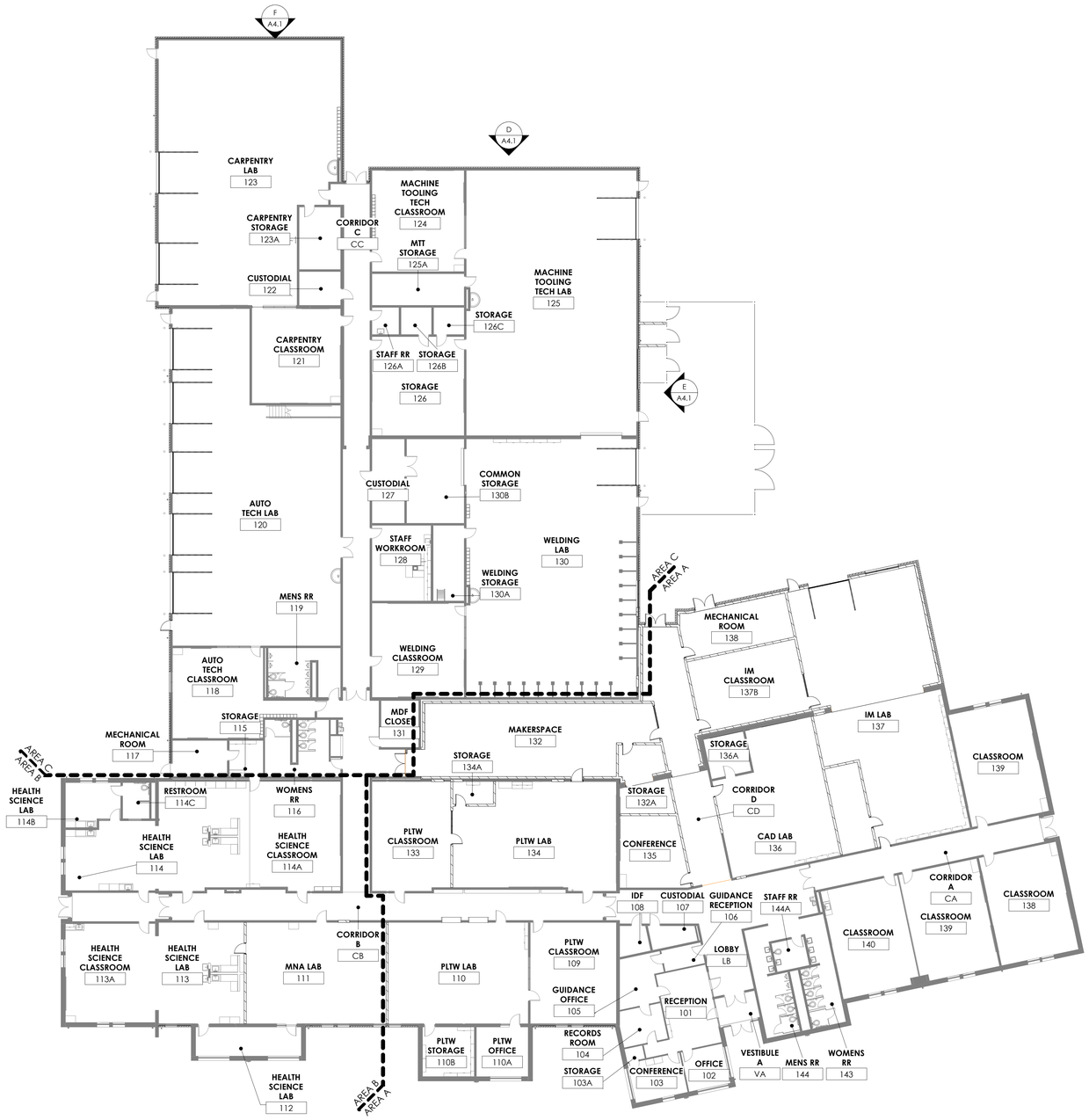
DESIGN DEVELOPMENT

A0.1

GENERAL ARCHITECTURAL DETAILS
DATE ISSUED:
12/04/25

REVISIONS

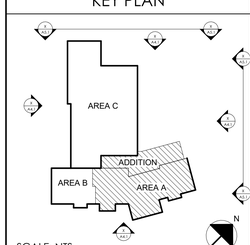
#	DATE	DESCRIPTION



REFERENCE FLOOR PLAN
1/16" = 1'-0"
A
A1.0

MATERIAL REFERENCE

KEY PLAN



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REFERENCE FLOOR PLAN

DATE ISSUED:
12/04/25

REVISIONS

#	DATE	DESCRIPTION

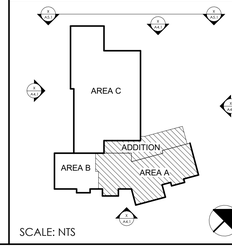
FIRST FLOOR PLAN - AREA A
1/8" = 1'-0"

MATERIAL REFERENCE

PLAN NOTES

#	
1	PROVIDE ABUSE RESISTANT GYP. BD. (092116.G) TO 8'-0" A.F.F. IN ROOM #___.
2	PROVIDE CEMENT BOARD (092116.L) AT WALLS WITH TILE, AND MOLD/MOISTURE GYP. BD. (092116.H) ABOVE AND ON OTHER WALLS IN ROOM #___.
3	PROVIDE MOLD/MOISTURE GYP. BD. (092116.H) IN ROOM #___.
4	PROVIDE IMPACT RESISTANT GYP. BD. (092116.F) IN ROOM #___.

KEY PLAN



SCALE: NTS

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FLOOR PLAN - AREA A
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
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LEBANON, KENTUCKY

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BG 25-341

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FLOOR PLAN - AREA A

DATE ISSUED:
12/04/25

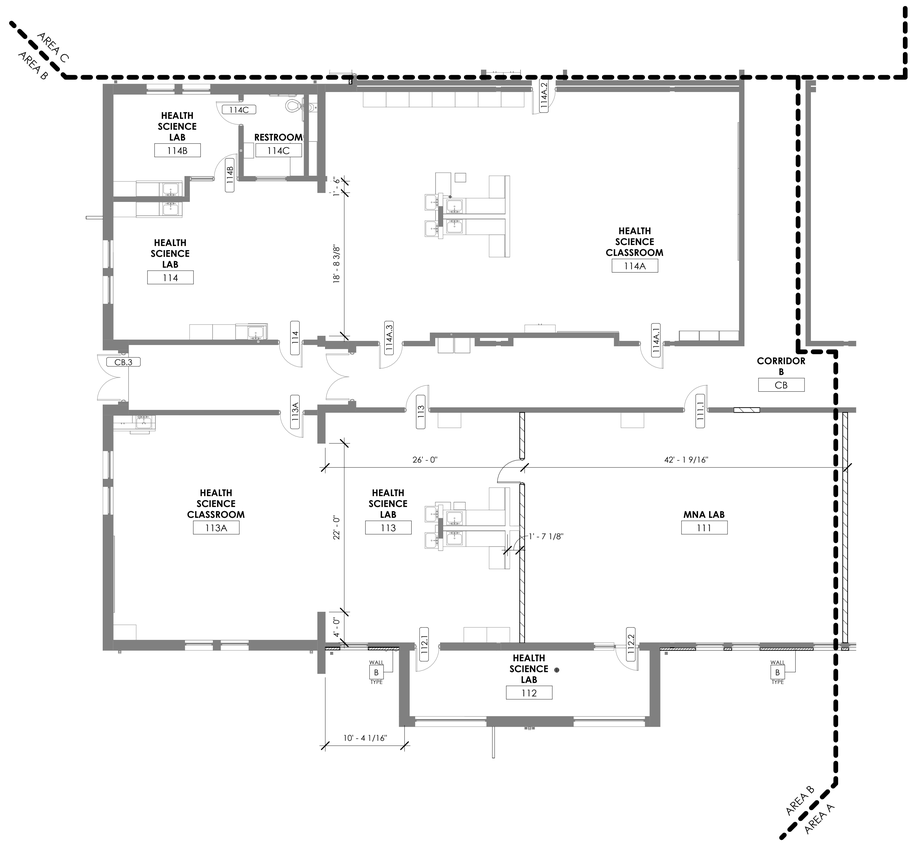
REVISIONS

#	DATE	DESCRIPTION

MATERIAL REFERENCE

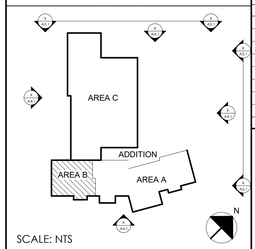
PLAN NOTES

#	
1	PROVIDE ABUSE RESISTANT GYP. BD. (092116.G) TO 8'-0" A.F.F. IN ROOM #___.
2	PROVIDE CEMENT BOARD (092116.L) AT WALLS WITH TILE, AND MOLD/MOISTURE GYP. BD. (092116.H) ABOVE AND ON OTHER WALLS IN ROOM #___.
3	PROVIDE MOLD/MOISTURE GYP. BD. (092116.H) IN ROOM #___.
4	PROVIDE IMPACT RESISTANT GYP. BD. (092116.F) IN ROOM #___.



FIRST FLOOR PLAN - AREA B (A1.2)
1/8" = 1'-0"

KEY PLAN



SCALE: NTS

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FLOOR PLAN - AREA B
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FOR:
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Structural Engineer:
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BG 25-341

Project No: 25015
Drawn By: BR / HS
Rev'd By: RB

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A1.2

FLOOR PLAN - AREA B

DATE ISSUED:
12/04/25

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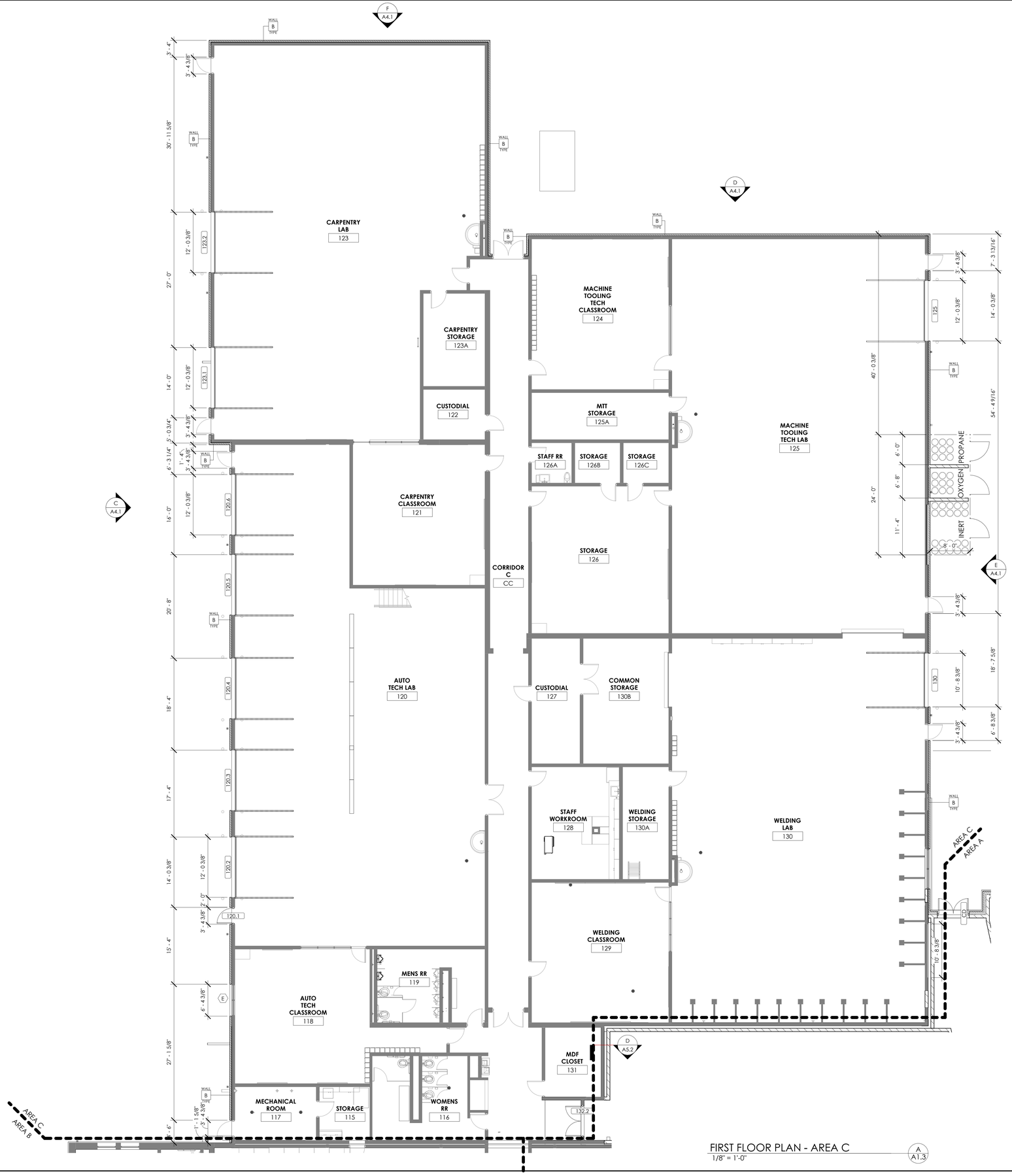
#	DATE	DESCRIPTION



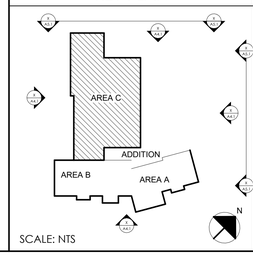
FIRST FLOOR PLAN - AREA C
1/8" = 1'-0"
A A1.3

MATERIAL REFERENCE

PLAN NOTES

#	
1	PROVIDE ABUSE RESISTANT GYP. BD. (092116.G) TO 8'-0" A.F.F. IN ROOM #___.
2	PROVIDE CEMENT BOARD (092116.L) AT WALLS WITH TILE, AND MOLD/MOISTURE GYP. BD. (092116.H) ABOVE AND ON OTHER WALLS IN ROOM #___.
3	PROVIDE MOLD/MOISTURE GYP. BD. (092116.H) IN ROOM #___.
4	PROVIDE IMPACT RESISTANT GYP. BD. (092116.F) IN ROOM #___.

KEY PLAN



SCALE: NTS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

NOT FOR CONSTRUCTION

FLOOR PLAN - AREA C
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No:	25015
Drawn By:	BR / HS
Rev'd By:	RB

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DESIGN DEVELOPMENT

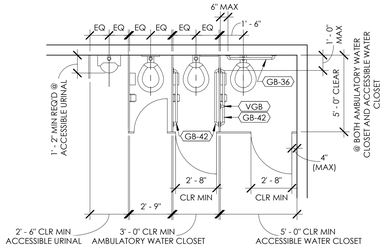
A1.3

FLOOR PLAN - AREA C

DATE ISSUED:
12/04/25

REVISIONS

#	DATE	DESCRIPTION



TYP RESTROOM LAYOUT PLAN — D A1.4

1/4" = 1'-0"

MATERIAL REFERENCE

102800.A	Toilet & Bath Accessories

NOTES:

1. COORDINATE ALL PLUMBING FIXTURES AND TOILET ACCESSORIES WITH THE PLUMBING ENGINEER.
2. THE FOLLOWING ITEMS SHALL BE PROVIDED AND INSTALLED BY THE OWNER: PTD, TPH, SD.

TOILET ACCESSORY LEGEND

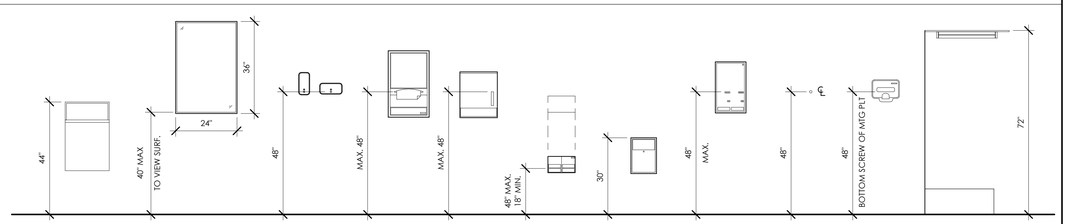
ALAV	ALAV	ACCESSIBLE LAVATORY
ALAVP	ALAVP	ACCESSIBLE LAVATORY - PRESCHOOL HEIGHT
ARS	ARS	ACCESSIBLE ROLL-IN SHOWER; INCLUDES GRAB BARS, CURTAIN ROD, SOAP DISH, AND SEAT
AUR	AUR	ACCESSIBLE URINAL
AWC	AWC	ACCESSIBLE WATER CLOSET
AWCP	AWCP	ACCESSIBLE WATER CLOSET - PRESCHOOL HEIGHT, FLOOR MOUNTED
CH	CH	COAT HOOK
DCS	DCS	DIAPER CHANGING STATION
DF	DF	DRINKING FOUNTAIN
EHD	EHD	ELECTRIC HAND DRYER
FD	FD	FLOOR DRAIN - REFER TO MEP
FSS	FSS	FOLDING SHOWER SEAT
GB	GB	SHOWER GRAB BAR
GB-24	GB-24	24" GRAB BAR
GB-36	GB-36	36" GRAB BAR
GB-42	GB-42	42" GRAB BAR
LAV	LAV	LAVATORY
MBH	MBH	MOP AND BROOM HANGER
MR	MR	MIRROR
MS	MS	MOP SINK
PTD	PTD	PAPER TOWEL DISPENSER
RH	RH	ACCESSIBLE ROBE HOOK
SC	SC	SHOWER CURTAIN
SD	SD	SOAP DISPENSER
SDH	SDH	SOAP DISH HOLDER
SH	SH	SHOWER STALL
SND	SND	SANITARY NAPKIN DISPOSAL
SS	SS	SHOWER SEAT
TPH	TPH	TOILET PAPER HOLDER
UR	UR	STANDARD HEIGHT URINAL
VGB	VGB	18" VERTICAL GRAB BAR
WC	WC	STANDARD WATER CLOSET

DF STANDARD HEIGHT DRINKING FOUNTAIN — **DF** ACCESSIBLE HEIGHT DRINKING FOUNTAIN — **DF** ACCESSIBLE HEIGHT HI/LO DRINKING FOUNTAIN — **LAV** LAVATORY — **AUR** ACCESSIBLE HEIGHT URINAL — **UR** STANDARD HEIGHT URINAL — **AWC** AMBULATORY TOILET STALL — **GB** GRAB BAR — **VGB** VERTICAL GRAB BAR — **AWC** ACCESSIBLE WATER CLOSET — **WC** STANDARD WATER CLOSET

(NOTE: SOME ITEMS SHOWN MAY NOT BE APPLICABLE TO THE PROJECT)

PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS — C A1.4

1/2" = 1'-0"



RWR RECESSED WASTE RECEPTACLE — **MR** MIRROR — **SD** SOAP DISPENSER — **PTD** PAPER TOWEL DISPENSER — **TPH** TOILET PAPER HOLDER — **SND** SANITARY NAPKIN DISPOSAL — SANITARY NAPKIN DISPENSER — **RH/CH** ACCESSIBLE ROBE/COAT HOOK — **EHD** ELECTRIC HAND DRYER — **MBH** MOP/BROOM HOLDER

(NOTE: SOME ITEMS SHOWN MAY NOT BE APPLICABLE TO THE PROJECT)

TOILET ACCESSORIES, DEVICE, AND EQUIPMENT MOUNTING HEIGHTS — A A1.4

1/2" = 1'-0" 102800.A

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NOT FOR CONSTRUCTION

ENLARGED FLOOR PLANS

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:

MARION COUNTY BOARD OF EDUCATION

LEBANON, KENTUCKY

M.E.A.P. Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG

Project No:	25015
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ENLARGED FLOOR PLANS

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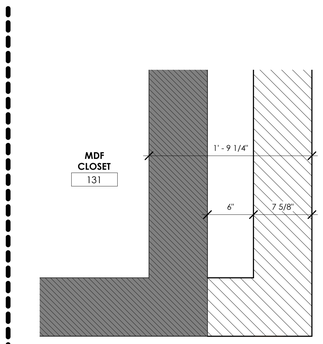
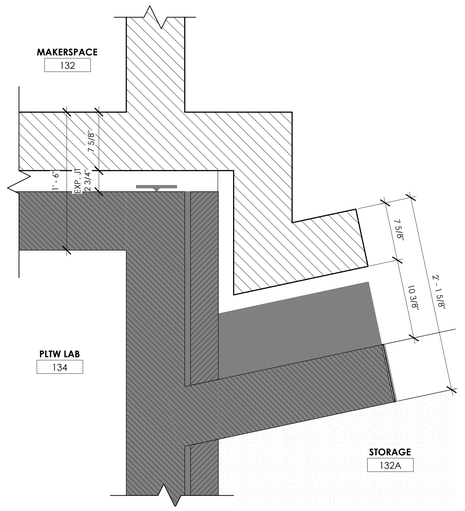
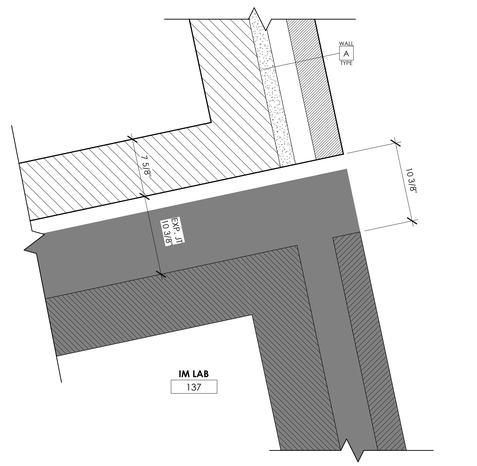


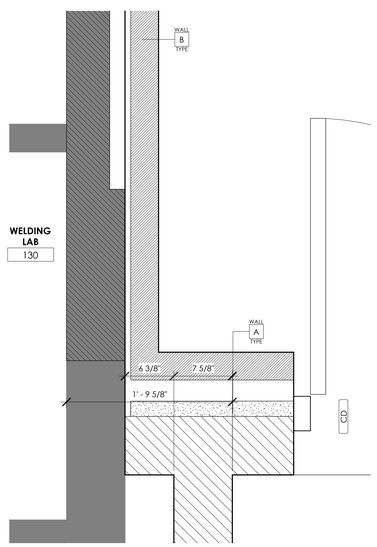
Detail 4
1 1/2" = 1'-0"
E
A1.5



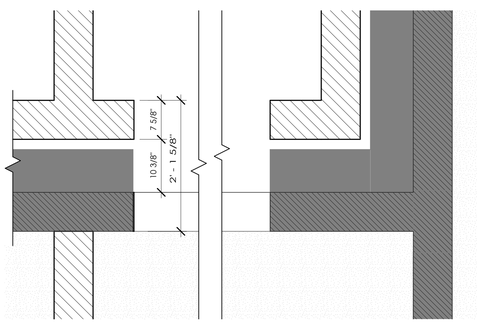
PLAN DETAIL
1 1/2" = 1'-0"
C
A1.5



PLAN DETAIL
1 1/2" = 1'-0"
B
A1.5



Detail 5
1 1/2" = 1'-0"
D
A1.5



PLAN DETAIL
1" = 1'-0"
A
A1.5

MATERIAL REFERENCE

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

NOT FOR CONSTRUCTION

PLAN DETAILS

MARION COUNTY ATC - RENOVATION & ADDITION
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PLAN DETAILS

DATE ISSUED:
12/04/25

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING FINISH	SIGN TYPE	COMMENTS
102	OFFICE	-	-	-	-	-	-	ACT1		
103A	STORAGE	-	-	-	-	-	-	ACT1		
104	RECORDS ROOM	-	-	-	-	-	-	ACT1		
105	GUIDANCE OFFICE	-	-	-	-	-	-	ACT1		
106	GUIDANCE RECEPTION	-	-	-	-	-	-	ACT1		
107	CUSTODIAL	-	-	-	-	-	-	ACT1		
108	IDF	-	-	-	-	-	-	ACT1		
109	PLTW CLASSROOM	-	-	-	-	-	-	ACT1		
110	PLTW LAB	PATCH?	4" VINYL BASE	P1	ETR	MATCH EXISTING	ETR	ACT1	SA1	
110A	PLTW OFFICE	-	-	-	-	-	-	ACT1		
110B	PLTW STORAGE	-	-	-	-	-	-	ACT1		
111	MNA LAB	PATCH?	4" VINYL BASE	P1	MATCH EXISTING	ETR	MATCH EXISTING	ACT1	SA1	
112	HEALTH SCIENCE LAB	-	-	-	-	-	-	ACT1		
113	HEALTH SCIENCE LAB	PATCH?	4" VINYL BASE	ETR	ETR	ETR	ETR	ACT1	SA1	
113A	HEALTH SCIENCE CLASSROOM	PATCH?	-	-	-	-	-	ACT1		
114	HEALTH SCIENCE LAB	PATCH?	4" VINYL BASE	ETR	ETR	ETR	ETR	ACT1	SA1	
114A	HEALTH SCIENCE CLASSROOM	ETR	ETR	ETR	ETR	ETR	ETR	ETR	SA1	
116	WOMENS RR	-	-	-	-	-	-	ACT1		
118	AUTO TECH CLASSROOM	-	-	-	-	-	-	ACT1		
119	MENS RR	-	-	-	-	-	-	ACT1		
122	CUSTODIAL	-	-	-	-	-	-	ACT1		
126	STORAGE	-	-	-	-	-	-	ACT1		
126B	STORAGE	-	-	-	-	-	-	ACT1		
126C	STORAGE	-	-	-	-	-	-	ACT1		
128	STAFF WORKROOM	-	-	-	-	-	-	ACT1		
129	WELDING CLASSROOM	-	-	-	-	-	-	ACT1		
132	MAKERSPACE	SC1	4" VINYL BASE	P1	P1	P1	P1	ACT1	SA1	
132A	STORAGE	VCT1	4" VINYL BASE	P1	P1	P1	P1	ACT1	SA1	
133	PLTW CLASSROOM	ETR	ETR	P1	P1	ETR	ETR	ACT1	SA1	
134	PLTW LAB	PATCH?	4" VINYL BASE	ETR	ETR	ETR	P1	ACT1	SA1	
134A	STORAGE	-	-	-	-	-	-	ACT1		
135	CONFERENCE	PATCH?	4" VINYL BASE	P1	P1	ETR	ETR	ACT1	SA1	
136	CAD LAB	ETR	4" VINYL BASE	ETR	P1	ETR	P1	EXPOSED STRUCTURE	SA1	
136A	STORAGE	-	-	-	-	-	-	ACT1		
137	IM LAB	ETR/SC1	4" VINYL BASE	P1	P1	P1	P1	EXPOSED STRUCTURE	SA1	
137A	STORAGE	ETR	4" VINYL BASE	P1	P1	ETR	P1	PAINT EXP. STRUCTURE TO MATCH EXISTING	SA1	
137B	IM CLASSROOM	VCT1	4" VINYL BASE	P1	P1	P1	P1	ACT1? EXPOSED?	SA1	
138	CLASSROOM	-	-	-	-	-	-	ACT1		
138	MECHANICAL ROOM	SC1	4" VINYL BASE	P1	P1	P1	P1	PAINT EXP. STRUCTURE TO MATCH EXISTING	SA1	
139	CLASSROOM	-	-	-	-	-	-	ACT1		
139	CLASSROOM	-	-	-	-	-	-	ACT1		
140	CLASSROOM	-	-	-	-	-	-	ACT1		
143	WOMENS RR	-	-	-	-	-	-	ACT1		
144	MENS RR	-	-	-	-	-	-	ACT1		
144A	STAFF RR	-	-	-	-	-	-	ACT1		
CA	CORRIDOR A	ETR	ETR	MATCH EXISTING	ETR	ETR	ETR	ETR	SA1	
CB	CORRIDOR B	-	-	-	-	-	-	ACT1		
CC	CORRIDOR C	-	-	-	-	-	-	ACT1		
CD	CORRIDOR D	VCT1	-	P1	P1	P1	P1	ETR/ACT1	SA1	
LB	LOBBY	ETR	ETR	MATCH EXISTING	ETR	MATCH EXISTING	ETR	ETR	SA1	

FINISH LEGEND

SPEC SECTION	KEY	BASIS OF DESIGN
	ETR	EXISTING TO REMAIN
03 30 00	SC1	SEALED CONCRETE
06 41 00	WC1	WOOD VENEER CABINETS
	WW1	WOOD WAINSCOT
	HPL1	PLASTIC LAMINATE - COUNTERTOPS
	HPL2	PLASTIC LAMINATE - BASE & WALL CABINETS
	SS1	SOLID SURFACE - RESTROOM COUNTERTOP
	STST1	STAINLESS STEEL COUNTERTOP
	IAW1	PAINTED OR STAINED WOOD BASE/TRIM/MOULDING
08 14 16	WD1	WOOD DOOR
09 21 16	FRP1	FIBERGLASS REINFORCED PANELS
09 30 00	CT1	CERAMIC FLOOR TILE
	CT2	CERAMIC WALL TILE
	QT1	QUARRY TILE
09 51 13	APC1	ARMSTRONG - SCHOOL ZONE FINE FISSURED - 2X2
	APC2	ARMSTRONG - CALLA - 2X2
	APC3	ARMSTRONG - KITCHEN ZONE - 2X2
09 54 26	LWS1	LINEWAR WOOD WALL & CEILING SYSTEM
09 64 29	HW1	ENGINEERED HARDWOOD - ACRYLIC INFUSED
09 64 29 A	WSP1	WOOD STRIP & PLANK FLOORING
09 64 31	WSF1	WOOD STAGE FLOORING
09 64 66	GWF1	GYMNASIUM WOOD FLOORING
09 65 00	RT1	RUBBER TILE
	VCT1	VINYL COMPOSITION TILE
	SVT1	SOLID VINYL TILE
09 65 02	LVT1	LUXURY VINYL TILE
09 65 13	RB1	TYP. 4"H RESILIENT BASE (COVE - ROLLS)
	RST1	RESILIENT STAIR TREAD & RISER - VINYL CONTRAST
09 66 23	TR1	PRECAST TERRAZZO STAIR TREAD & RISER
	T1	TERRAZZO (EPOXY)
09 67 23	RF1	RESINOUS FLAKE EPOXY (CUSTOM - 3 COLOR 1/4" FLAKE)
09 68 13	CPT1	CARPET TILE
	CPT2	CARPET TILE
09 72 01	DWC1	DRY ERASE WALL COVERING
09 72 60	TWC1	TACKABLE WALL COVERING
09 84 10	FWP1	FABRIC WRAPPED ACOUSTICAL WALL PANELS
09 90 00	P1	PAINTING - TYPICAL
	P2	PAINTING - NEUTRAL ACCENT
	P3	PAINTING - ACCENT
10 26 00	CG1	48"H CORNER GUARD - SURFACE MOUNT
	WP2	WALL SURFACE PROTECTION - ACROVYN BY DESIGN
12 24 13	RWS1	MANUAL ROLLER WINDOW SHADES
	BWS1	BLACKOUT WINDOW SHADES - DOOR LITES
12 34 50	SLC1	SCIENCE LAB - WOOD BASE & WALL CABINETS
	SLC2	SCIENCE LAB - EPOXY OR PHENOLIC COUNTERTOPS
12 35 50	HPL3	PLASTIC LAMINATE - COUNTERTOPS
	HPL4	PLASTIC LAMINATE - BASE & WALL CABINETS

EQUIPMENT LEGEND

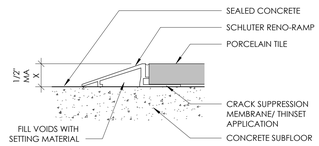
A4	4' -0"W X 4'-0"H MARKERBOARD	REFER TO SPEC.
A6	6' -0"W X 4'-0"H MARKERBOARD	REFER TO SPEC.
A8	8' -0"W X 4'-0"H MARKERBOARD	REFER TO SPEC.
A10	10' -0"W X 4'-0"H MARKERBOARD	REFER TO SPEC.
A12	12' -0"W X 4'-0"H MARKERBOARD	REFER TO SPEC.
B4	4' -0"W X 4'-0"H TACKBOARD	REFER TO SPEC.
B6	6' -0"W X 4'-0"H TACKBOARD	REFER TO SPEC.
B8	8' -0"W X 4'-0"H TACKBOARD	REFER TO SPEC.
B10	10' -0"W X 4'-0"H TACKBOARD	REFER TO SPEC.
B12	12' -0"W X 4'-0"H TACKBOARD	REFER TO SPEC.
C	CORNER GUARD	REFER TO SPEC.
D	TACK STRIP MOUNT 2" BELOW CEILING AT ROOM PERIMETER	REFER TO SPEC.
E	INSTRUCTOR'S DESK/LECTERN	N.I.C.
F	INTERACTIVE BOARD	N.I.C.
G	REFRIGERATOR	N.I.C.
H	FLOOR MODEL PLOTTER	N.I.C.
I	RECESSED SCIENCE SHOWER	REFER TO SPEC.
J	FREE STANDING COPIER	N.I.C.
K	FLORAL COOLER/CASE	N.I.C.
L1	LOCKERS - SINGLE TIER, QTY INDICATED ON PLANS	REFER TO SPEC.
L2	LOCKERS - DOUBLE TIER, QTY INDICATED ON PLANS	REFER TO SPEC.
L3	LOCKERS - ATHLETIC (MVP), QTY INDICATED ON PLANS	REFER TO SPEC.
L4	LOCKERS - DOUBLE TIER, DIAMOND VENTED QTY INDICATED ON PLANS	REFER TO SPEC.
M	ADULT CHANGING TABLE	REFER TO SPEC.
N	GOGGLE CABINET	REFER TO SPEC.
O	FIRST AID KIT W/FIRE BLANKET BELOW	REFER TO SPEC.
P	MOBILE COMPUTER CART	N.I.C.
Q	FLAMMABLE CABINET	N.I.C.
R	PEG BOARD WITH DRIP TRAY	REFER TO SPEC.
S	SWING ON FRAME	N.I.C.
T	MOP AND BROOM HOLDER	REFER TO SPEC.
U	ICE MACHINE	N.I.C.
V	WALL BRACKET FOR LCD SCREEN	N.I.C.
W	SERVER RACK	N.I.C.
X	BACKGROUND CURTAIN	REFER TO SPEC.
Y	ACID STORAGE CABINET	REFER TO SPEC.
Z	FLAMMABLE STORAGE CABINET	REFER TO SPEC.
AA	WALL MOUNTED EYE WASH	REFER TO SPEC.
BB	OPERABLE PANEL PARTITION	REFER TO SPEC.
CC	LOCKER BENCH, 3' LONG	REFER TO SPEC.
DD	2'-0" WIDE WALL PADS	REFER TO SPEC.
EE	LIBRARY DETECTION SYSTEM	N.I.C.
FF	ADJUSTABLE STEEL SHELVING	N.I.C.
GG	TRAINING TABLES	N.I.C.
HH	STANDING INTERNET ACCESS STATION	REFER TO SPEC.
II	DEMONSTRATION MIRROR	REFER TO SPEC.
JJ	COT	N.I.C.
KK	PLATE GLASS MIRROR 4' - 6'-0", SEE PLAN FOR WIDTH	REFER TO SPEC.
LL	CHALKBOARD	REFER TO SPEC.
MM	INTERACTIVE BOARD	N.I.C.
NN	COAT HOOKS	REFER TO SPEC.
OO	PROJECTION SCREEN WALL MOUNTED, MANUAL	REFER TO SPEC.
PP	PROJECTION SCREEN RECESSED, MANUAL	REFER TO SPEC.
QQ	PROJECTION SCREEN RECESSED, MOTORIZED	REFER TO SPEC.
RR	CEILING (SEMI-FLUSH) MOUNTED PROJECTOR BRACKET	REFER TO SPEC.
SS	CEILING (POLE) MOUNTED PROJECTOR BRACKET	REFER TO SPEC.

MATERIAL REFERENCE

061000.A	Wood Blocking
061000.B	Plywood Sheathing
064100.A13	Plastic Laminate Countertop
064100.C6	Solid-Surface Countertop & Backsplash

ROOM FINISH NOTES

1. ALL WALLS, GYPSUM BOARD CEILINGS, METAL DECKING, STRUCTURAL ELEMENTS, CONDUIT, ALL UNFINISHED SURFACES EXPOSED AFTER CONSTRUCTION IS COMPLETE SHALL RECEIVE PAINT UNLESS OTHERWISE NOTED.
2. ALL UNFINISHED EXTERIOR SURFACES INCLUDING CONCRETE BLOCK, STEEL LINTELS, ETC., WILL RECEIVE A PAINT SYSTEM. REFER TO THE SPECIFICATION FOR ADDITIONAL INFORMATION.
3. REFER TO FLOOR PLANS FOR WALL ASSEMBLY TYPES.
4. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION ON CEILINGS AND SOFFIT LOCATIONS.
5. PROVIDE COLOR MATCHING CAULK AT THE INTERSECTION OF HOLLOW METAL FRAMES AND HARD SURFACE FLOORING, TYP.
6. WHERE FLOOR TILE BORDERS/PATTERNS OCCUR, THE CENTER "FIELD" TILES SHALL BE FULL SIZE TILES AND THE BORDER TILES ALONG THE WALL SHALL BE CUT TO CENTER THE FIELD TILES.
7. ALL FURNITURE/EQUIPMENT SHOWN DASHED IS FOR REFERENCE ONLY AND IS NOT IN THIS CONTRACT.
8. ALL CASEWORK TOE KICK AREAS AND/OR OTHER CASEWORK SURFACES WHICH ABUT FLOOR FINISHES WILL RECEIVE RESILIENT BASE.
9. WHERE MARKERBOARDS AND TACKBOARDS ARE TOO WIDE FOR THE LOCATION INDICATED, THE SUPPLIER SHALL NOTIFY THE DESIGNER AND MODIFY THE WIDTH ACCORDINGLY.
10. IN SOME CASES MORE THAN ONE TYPE OF FLOORING AND/OR CEILING FINISH WILL OCCUR IN ONE SPACE - REFER TO FLOOR PLANS, REFLECTED CEILING PLANS, FINISH SCHEDULE AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. PAINTING SHALL INCLUDE STAIR ASSEMBLY COMPONENTS INCLUDING STRINGER, HANDRAILS, ETC.
12. PROVIDE MECHANICALLY FASTENED, WALL CORNER GUARDS FOR ALL OUTSIDE GYPSUM CORNERS, TYP. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
13. COUNTERTOP & SHELVING BRACKETS (WHERE APPLICABLE) WILL BE EQUAL TO A&M HARDWARE STEEL BRACKETS. SIZES SHALL ACCOMMODATE THE VARIOUS DEPTHS INDICATED IN THE DRAWINGS.
14. ALL LOUVERS, GRILLS, REGISTERS & DIFFUSERS SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH THEY OCCUR.



SCHLUTER TRANSITION STRIP FROM PORCELAIN TILE TO CONCRETE

MANUF: SCHULTER
STYLE: RENO - RAMP
FINISH: SATIN ANNODIZED ALUMINUM
SIZE: VERIFY TILE HEIGHT TO DETERMINE THE APPROPRIATE SIZE.

TRANSITION @ PORCELAIN TILE/CONC. 3 A2.0
N.T.S.

EPOXY SINK LEGEND

EP-1	ROUND CUPSINK 8" DIA. X 8" D
EP-2	ACCESSIBLE DROP-IN 15"W X 18"L X 4 1/2"D
EP-3	RECTANGULAR CUPSINK 5 1/2" W X 15"L X 6"D

SIGNAGE TYPES

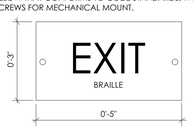
SEE SPECIFICATION 101424 FOR SIGN MANUFACTURING AND INSTALLATION DETAILS

SIGN TYPE 1 (TYPICAL): TYPICAL 8"H X 8"W PANEL SIGN - REFER TO SPECIFICATION FOR DETAILS ON MATERIALS AND MECHANICAL MOUNTING DETAILS

SIGN TYPE 2 (WITH WINDOW): TYPICAL 8"H X 8"W PANEL SIGN WITH OPENING FOR REMOVABLE PAPER INSERT- REFER TO SPECIFICATION FOR DETAILS ON MATERIALS AND MECHANICAL MOUNTING DETAILS

SIGN TYPE 3 (RESTROOM & OTHER SYMBOL SIGNS) : TYPICAL 8"H X 8"W PANEL SIGN WITH SYMBOL - REFER TO SPECIFICATION FOR DETAILS ON MATERIALS AND MECHANICAL MOUNTING DETAILS

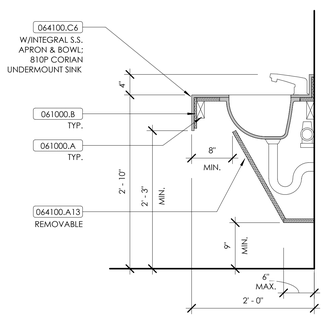
SIGN TYPE 4 (EXIT) : 5"H X 5"W PANEL SIGN AS SHOWN BELOW THAT CONFORMS TO CODE STANDARDS, TWO SCREWS FOR MECHANICAL MOUNT.



SIGN TYPE 5 (DIRECTIONAL) : (VARIES AS NEEDED BY TEXT, NOT TO EXCEED 20")"H X 18"W PANEL SIGN WITH ARROWS AND NUMBERS AND TEXT

SIGN TYPE 6 (EXIT STAIR) : 5"H X 5"W EXIT STAIR SIGN WITH BRAILLE AND CONFORMING TO CODE STANDARDS WITH TEXT "EXIT STAIR DOWN"

PLAQUE: SEE A2.0 FOR PLAQUE SIZE AND TEXT



PER ANSI ICC A117.1-2009: 306.3 & 306.2

NOTE: SPEC. 064100

PROVIDE MANUFACTURER'S ADA ACCESSIBLE SINK BASE CABINET DESIGN. ENSURE ALL DIMENSIONS, HEIGHTS AND CONSTRUCTION MEET ADA ACCESSIBILITY REQUIREMENTS. COORDINATE CABINET CONSTRUCTION WITH SINK SIZES AND LOCATIONS.

ADA ACCESSIBILITY GUIDELINES
4.19.2 LAVATORY HEIGHTS & CLEARANCES

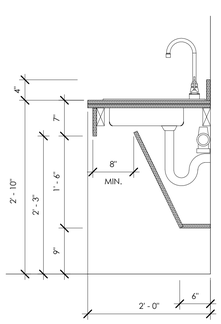
LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34 IN (865 mm) ABOVE THE FINISH FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29 IN (735 mm) ABOVE THE FINISH FLOOR TO THE BOTTOM OF THE APRON. THE FOLLOWING KNEE CLEARANCE IS REQUIRED UNDERNEATH THE LAVATORY: 27 IN (685 mm) MINIMUM FROM THE FLOOR TO THE UNDERSIDE OF THE LAVATORY WHICH EXTENDS 8 IN (205 mm) MINIMUM MEASURED FROM THE FRONT EDGE UNDERNEATH THE LAVATORY BACK TOWARDS THE WALL; IF A MINIMUM 9 IN (230 mm) OF TOE CLEARANCE IS PROVIDED, A MAXIMUM OF 6 IN (150 mm) OF THE 48 IN (1220 mm) OF CLEAR FLOOR SPACE REQUIRED AT THE FIXTURE MAY EXTEND INTO THE TOE SPACE. (4.19.2, 4.19.6)

EXCEPTION 1: LAVATORIES USED PRIMARILY BY CHILDREN AGES 6 THROUGH 12 SHALL BE PERMITTED TO HAVE AN APRON CLEARANCE AND A KNEE CLEARANCE 24 IN (610 mm) HIGH MINIMUM PROVIDED THAT THE RIM OR COUNTER SURFACE IS NO HIGHER THAN 30 IN (760 mm).

EXCEPTION 2: LAVATORIES USED PRIMARILY BY CHILDREN AGES 5 AND YOUNGER SHALL NOT BE REQUIRED TO MEET THESE CLEARANCES IF CLEAR FLOOR SPACE FOR A PARALLEL APPROACH COMPLYING WITH 4.2.4 IS PROVIDED.

FOR MORE INFORMATION, REFER TO: http://www.access-board.gov/adaag/html/adaag.htm#4.19

ADA SINK SECTION - 2
1" = 1'-0"
2 A2.0



PER 306.3 & 306.2

NOTE: SPEC. 123550

PROVIDE MANUFACTURER'S ADA ACCESSIBLE SINK BASE CABINET DESIGN. ENSURE ALL DIMENSIONS, HEIGHTS AND CONSTRUCTION MEET ADA ACCESSIBILITY REQUIREMENTS. COORDINATE CABINET CONSTRUCTION WITH SINK SIZES AND LOCATIONS.

ADA ACCESSIBILITY GUIDELINES
4.19.2 LAVATORY HEIGHTS & CLEARANCES

LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34 IN (865 mm) ABOVE THE FINISH FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29 IN (735 mm) ABOVE THE FINISH FLOOR TO THE BOTTOM OF THE APRON. THE FOLLOWING KNEE CLEARANCE IS REQUIRED UNDERNEATH THE LAVATORY: 27 IN (685 mm) MINIMUM FROM THE FLOOR TO THE UNDERSIDE OF THE LAVATORY WHICH EXTENDS 8 IN (205 mm) MINIMUM MEASURED FROM THE FRONT EDGE UNDERNEATH THE LAVATORY BACK TOWARDS THE WALL; IF A MINIMUM 9 IN (230 mm) OF TOE CLEARANCE IS PROVIDED, A MAXIMUM OF 6 IN (150 mm) OF THE 48 IN (1220 mm) OF CLEAR FLOOR SPACE REQUIRED AT THE FIXTURE MAY EXTEND INTO THE TOE SPACE. (4.19.2, 4.19.6)

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FOR MORE INFORMATION, REFER TO: http://www.access-board.gov/adaag/html/adaag.htm#4.19

ADA SINK SECTION - 1
1" = 1'-0"
1 A2.0

OPTIMUM MOUNTING HEIGHTS

ITEM (DIMENSION TO)	GRADE LEVEL				
	PRE-SCHOOL KINDERGARTEN	1 THRU 3	4 THRU 6	7 THRU 9	10 THRU 12
VISUAL DISPLAY BOARDS - MARKER, TACK, CHALK	TOP 70" BOTTOM 22"	TOP 73" BOTTOM 25"	TOP 77" BOTTOM 29"	TOP 80" BOTTOM 32"	TOP 80" BOTTOM 34"
COUNTERTOP: STANDING POSITION (TOP)	24"	26"	30"	34"	36"
DESKTOP/TABLETOP: SEATED POSITION (TOP)	18"	20"	23"	26"	27"
PANIC DEVICE DOOR HARDWARE (CENTERLINE)	27"	31"	36"	40"	42"
FIRE EXTINGUISHER CABINET (BOTTOM)	32"			40"	
FIRE EXTINGUISHER CABINET (CENTER OF VALVE LINE)	64"			64"	
COAT HOOK (CENTERLINE)	36"	41"	48"	54"	55"

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

NOT FOR CONSTRUCTION

ROOM FINISH SCHEDULE
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.P. Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No: 25015
Drawn By: Author
Rev'd By: Checker

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ROOM FINISH SCHEDULE

DATE ISSUED:
12/04/25

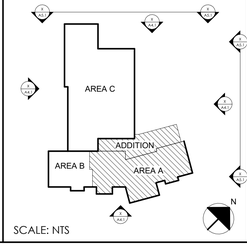
REVISIONS

#	DATE	DESCRIPTION

MATERIAL REFERENCE

FIRST FLOOR PLAN - AREA A
1/8" = 1'-0"
A A2.1

KEY PLAN



SCALE: NTS

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FLOOR PLAN - AREA A - INTERIORS
MARION COUNTY ATC - RENOVATION & ADDITION
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FLOOR PLAN - AREA A - INTERIORS
DATE ISSUED:
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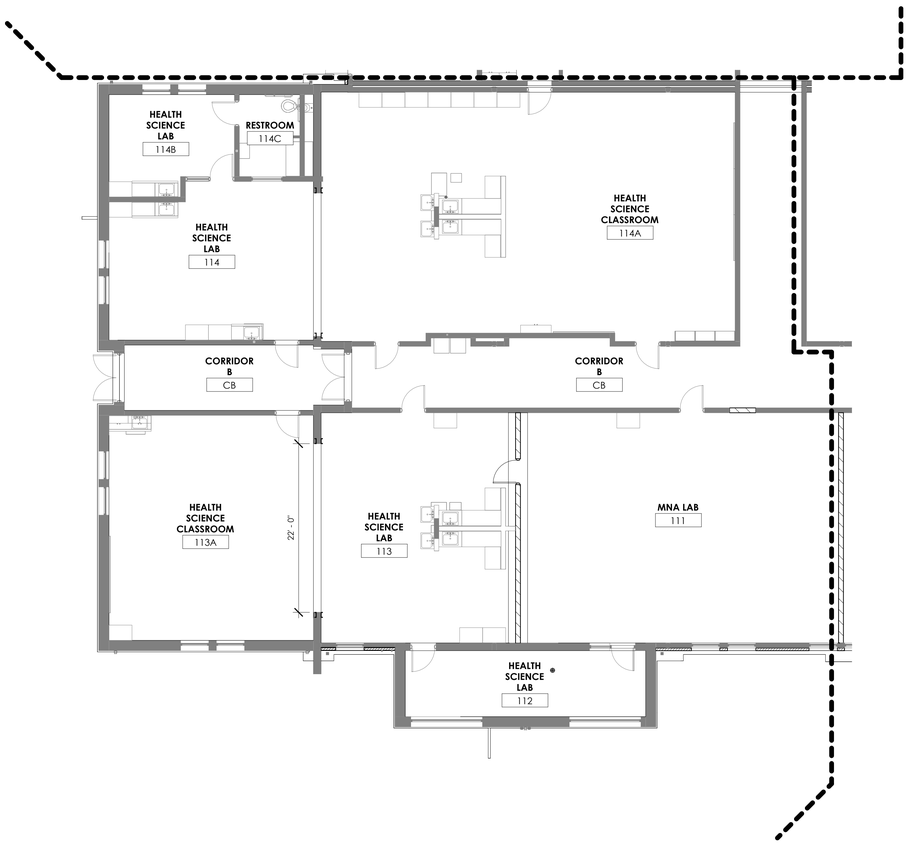
REVISIONS

#	DATE	DESCRIPTION

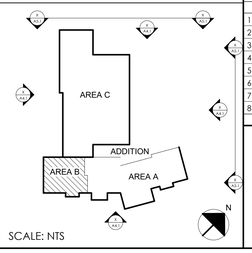


FIRST FLOOR PLAN - AREA B
1/8" = 1'-0"

A
A2.2

MATERIAL REFERENCE

KEY PLAN



SCALE: NTS

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FLOOR PLAN - AREA B - INTERIORS
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FLOOR PLAN - AREA B - INTERIORS
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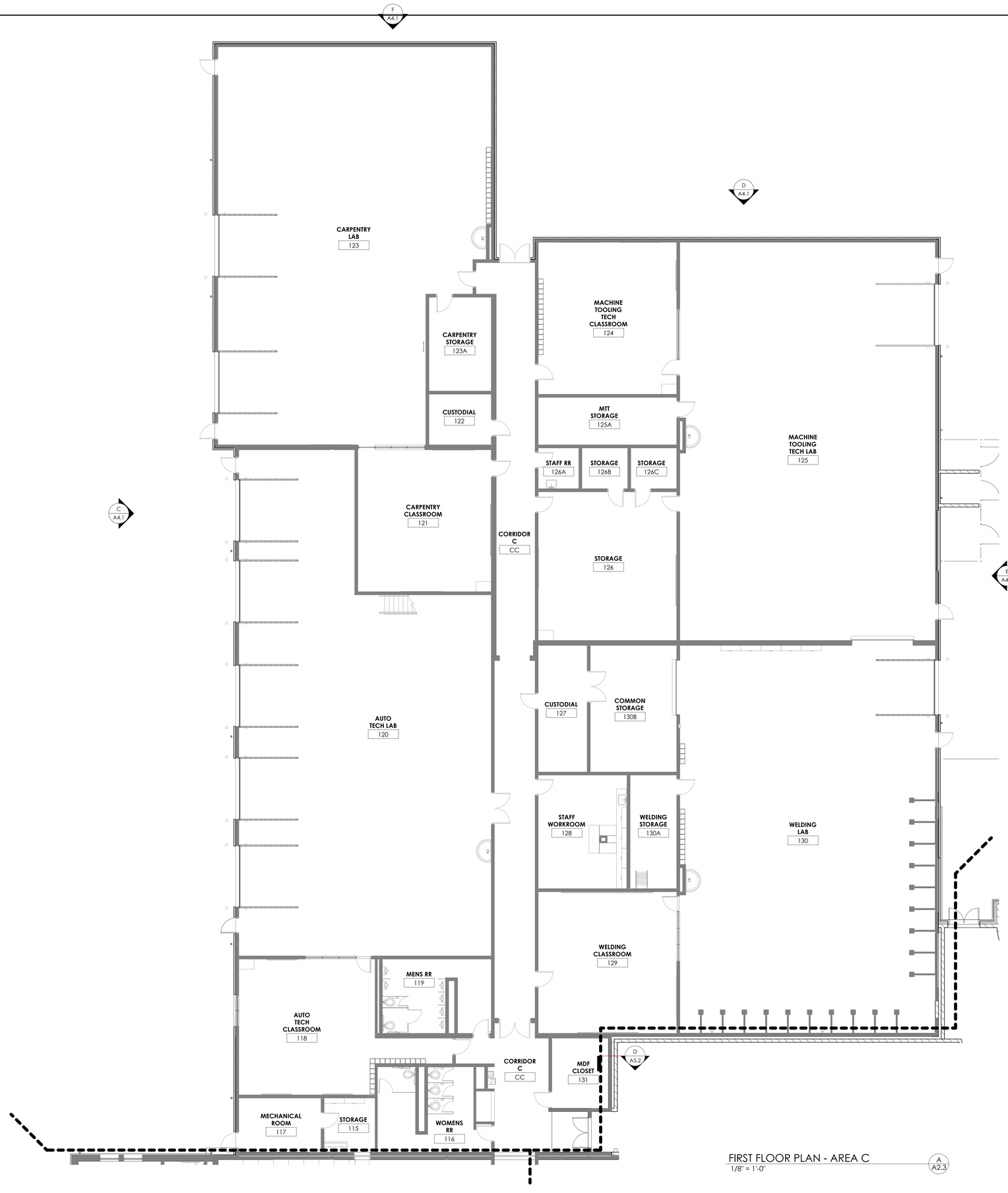
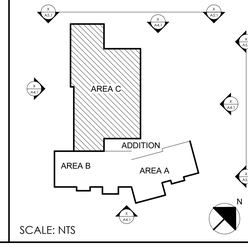
#	DATE	DESCRIPTION



FIRST FLOOR PLAN - AREA C
1/8" = 1'-0"
A
A2.3

MATERIAL REFERENCE

KEY PLAN



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FLOOR PLAN - AREA C - INTERIORS
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Project No: 25015
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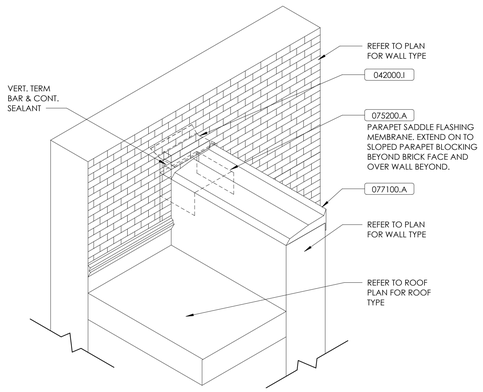
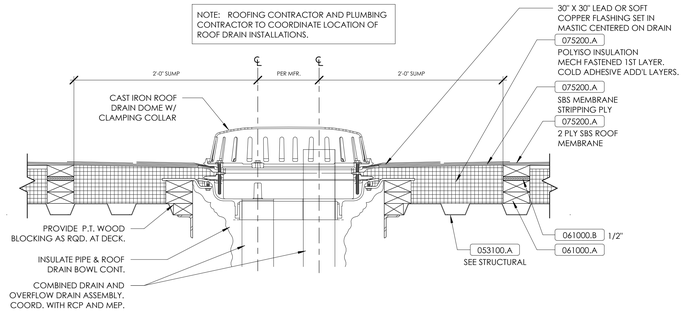
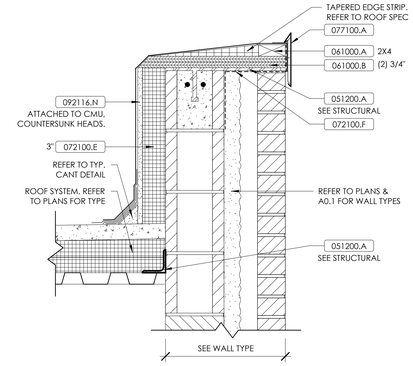
FLOOR PLAN - AREA C - INTERIORS
DATE ISSUED:
12/04/25



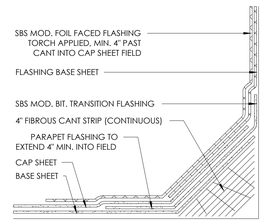
SADDLE FLASHING - PARAPET TO WALL (E A3.1)
1 1/2" = 1'-0"



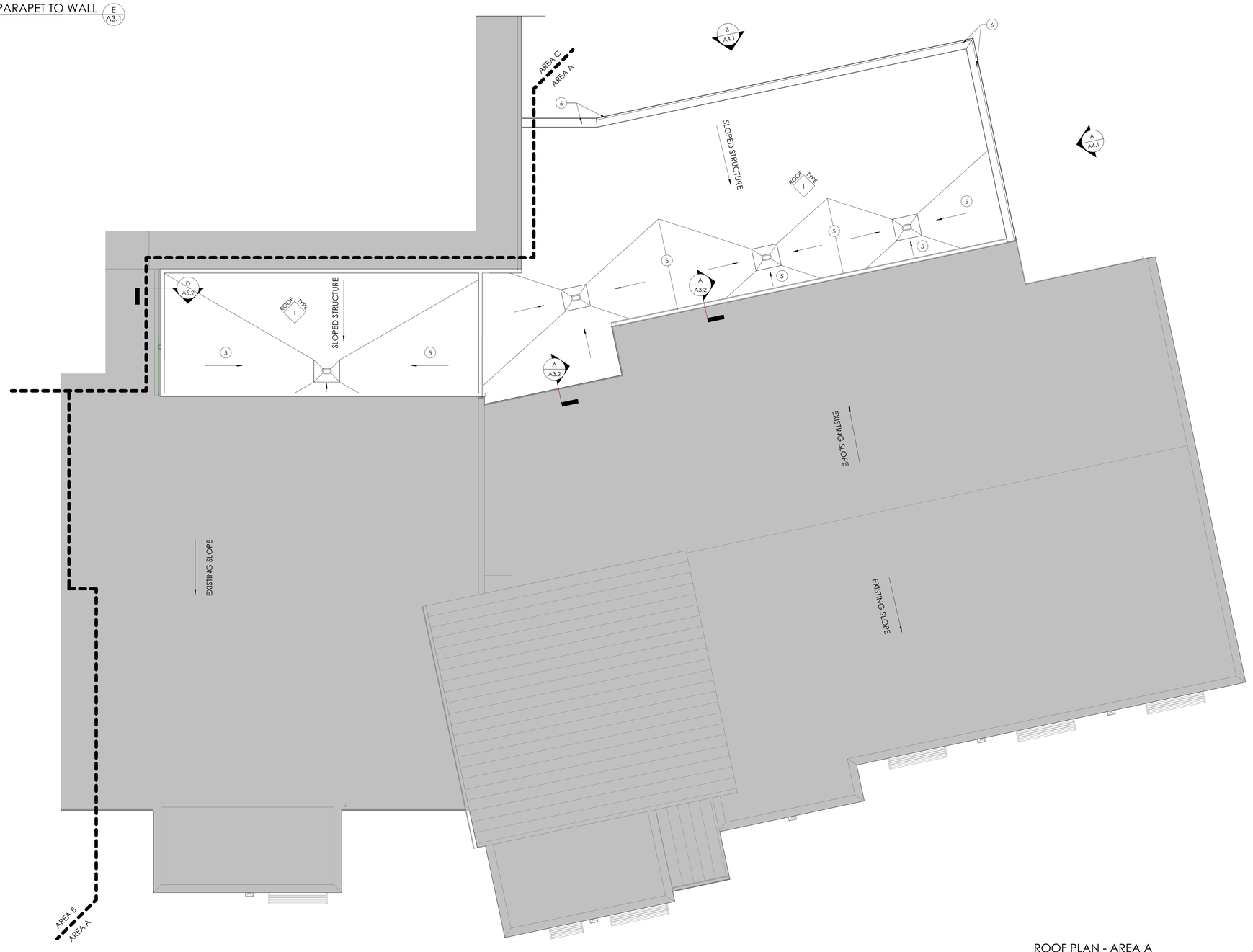
ROOF DRAIN DOUBLE - SBS POLYISO (D A3.1)
1 1/2" = 1'-0"



TYP. PARAPET DETAIL (C A3.1)
1 1/2" = 1'-0"



CANT DETAIL - SBS POLYISO (B A3.1)
N.T.S.



ROOF PLAN - AREA A (A A3.1)
1/8" = 1'-0"

MATERIAL REFERENCE

042000.I	Through Wall Flashing
051200.A	Structural Steel Member
053100.A	Roof Deck
061000.A	Wood Blocking
061000.B	Plywood Sheathing
072100.E	Extruded Polystyrene Board Insulation
072100.F	Transition Membrane
075200.A	SBS-Modified Bituminous Membrane Roofing System
077100.A	Fascia
092116.N	Exterior Gypsum Roof Board

ROOF TYPE SCHEDULE

1	2-PLY SBS W/ GRANULAR CAP SHEET OVER 1" OVERLAY BOARD, OVER (2) LAYERS OF 3" POLYISO INSULATION, METAL DECK. REFER TO THE ROOF PLAN FOR ROOF SLOPES AND EDGE CONDITIONS. REFER TO THE SPECIFICATIONS FOR WIND UPLIFT, FIRE RESISTANCE RATINGS, AND WARRANTY REQUIREMENTS.

(#) ROOF NOTES

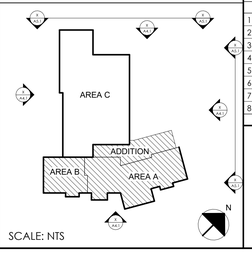
1	GUITER. SEE DETAIL x/Ax.x. (074113) (076200) (077123)
2	DOWNSPOUT. SEE DETAIL x/Ax.x. (074113) (076200) (077123)
3	SPLASH PAD. SEE DETAIL x/Ax.x.
4	ROOFTOP MECHANICAL EQUIPMENT CURB. SEE DETAIL x/Ax.x.
5	CRICKET/SADDLE SLOPED TO 1/4" PER 1'-0" FOR POSITIVE DRAINAGE.
6	FASCIA. SEE DETAIL x/Ax.x.
9	VALLEY FLASHING. SEE DETAIL x/Ax.x.
10	ICE AND WATER SHIELD. (073113) (074113)
11	DRIP EDGE. SEE DETAIL x/Ax.x.
12	REGLET AND COUNTERFLASHING. SEE DETAIL x/Ax.x.
14	EMERGENCY OVERFLOW OUTLET MOUNTED IN EXTERIOR WALL. SEE BUILDING ELEVATIONS FOR LOCATIONS. OUTLET TO BE CENTERED OVER WINDOW/DOOR OR BETWEEN OPENINGS U.N.O. SEE DETAIL x/Ax.x.
16	EXPANSION JOINT. SEE DETAIL x/Ax.x.
18	ALUMINUM ROOF-MOUNTED GUARDRAIL. SEE DETAIL x/Ax.x
22	PREMANUFACTURED WALL HUNG CANOPY. SEE DETAIL x/Ax.x. 3'x5' OVER SINGLE DOORS; 3'x8' OVER DOUBLE DOORS U.N.O.
23	PREMANUFACTURED COLUMN SUPPORTED CANOPY. SEE DETAIL x/Ax.x.
24	PIPE SUPPORTS. SEE DETAIL x/Ax.x.

ROOF LEGEND

REFER TO ROOF DETAILS FOR MORE INFORMATION. SOME ITEMS SHOWN MAY NOT APPLY TO THE PROJECT.

RD	ROOF DRAIN.	
ERD	EMERGENCY ROOF DRAIN.	
RL	ROOF LADDER.	
RH	ROOF HATCH.	
WP	WALKWAY PAD.	
VTR	VENT THROUGH ROOF. COORDINATE WITH MEP DRAWINGS.	
RTU	ROOF TOP UNIT. COORDINATE WITH MEP AND FOOD SERVICE EQUIPMENT.	

KEY PLAN



SCALE: NTS

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ROOF PLAN - AREA A
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892
Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No: 25015
Drawn By: BR / HS
Rev'd By: RB

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ROOF PLAN - AREA A

DATE ISSUED:
12/04/25

MATERIAL REFERENCE

ROOF TYPE SCHEDULE

1	2-PLY SBS W/ GRANULAR CAP SHEET OVER 1" OVERLAY BOARD, OVER (2) LAYERS OF 3" POLYISO INSULATION, METAL DECK. REFER TO THE ROOF PLAN FOR ROOF SLOPES AND EDGE CONDITIONS. REFER TO THE SPECIFICATIONS FOR WIND UPLIFT, FIRE RESISTANCE RATINGS, AND WARRANTY REQUIREMENTS.

(#) ROOF NOTES

1	GUITER. SEE DETAIL x/Ax.x. (074113) (076200) (077123)
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10	ICE AND WATER SHIELD. (073113) (074113)
11	DRIP EDGE. SEE DETAIL x/Ax.x.
12	REGLET AND COUNTERFLASHING. SEE DETAIL x/Ax.x.
14	EMERGENCY OVERFLOW OUTLET MOUNTED IN EXTERIOR WALL. SEE BUILDING ELEVATIONS FOR LOCATIONS. OUTLET TO BE CENTERED OVER WINDOW/DOOR OR BETWEEN OPENINGS U.N.O. SEE DETAIL x/Ax.x.
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22	PREMANUFACTURED WALL HUNG CANOPY. SEE DETAIL x/Ax.x. 3'x5' OVER SINGLE DOORS; 3'x8' OVER DOUBLE DOORS U.N.O.
23	PREMANUFACTURED COLUMN SUPPORTED CANOPY. SEE DETAIL x/Ax.x.
24	PIPE SUPPORTS. SEE DETAIL x/Ax.x.

ROOF LEGEND

REFER TO ROOF DETAILS FOR MORE INFORMATION.
SOME ITEMS SHOWN MAY NOT APPLY TO THE PROJECT.

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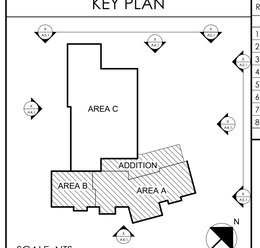
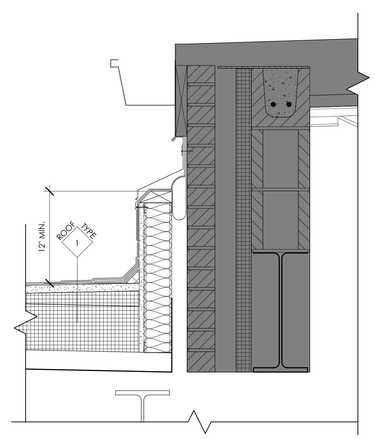
ERD	EMERGENCY ROOF DRAIN.	
RL	ROOF LADDER.	
RH	ROOF HATCH.	
WP	WALKWAY PAD.	
VTR	VENT THROUGH ROOF. COORDINATE WITH MEP DRAWINGS.	
RTU	ROOF TOP UNIT. COORDINATE WITH MEP AND FOOD SERVICE EQUIPMENT.	

KEY PLAN





ROOF DETAIL
1 1/2" = 1'-0"
A A3.2

SCALE: NTS

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ROOF DETAILS

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:

MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

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BG 25-341

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ROOF DETAILS

DATE ISSUED:
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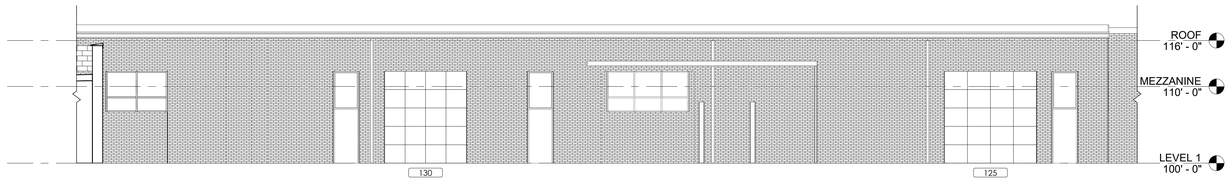
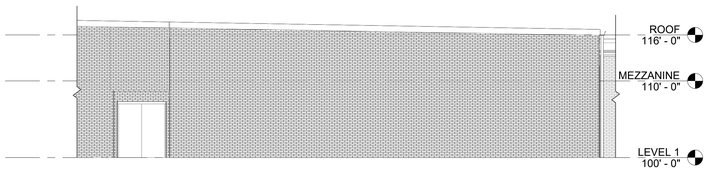
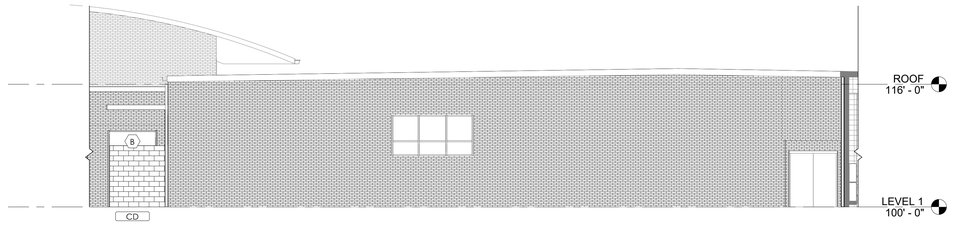


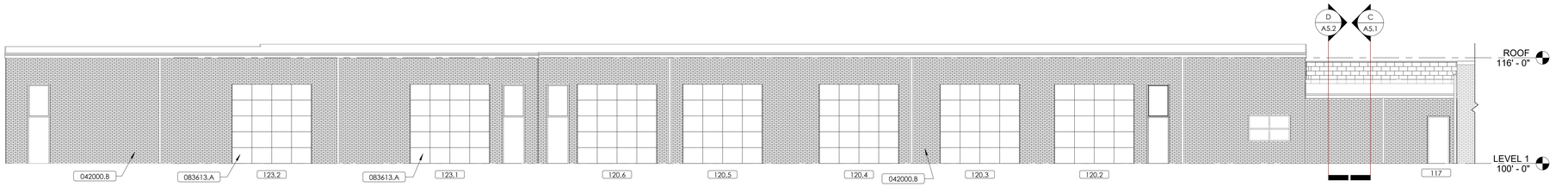
BUILDING ELEVATION
1/8" = 1'-0"
E
A4.1



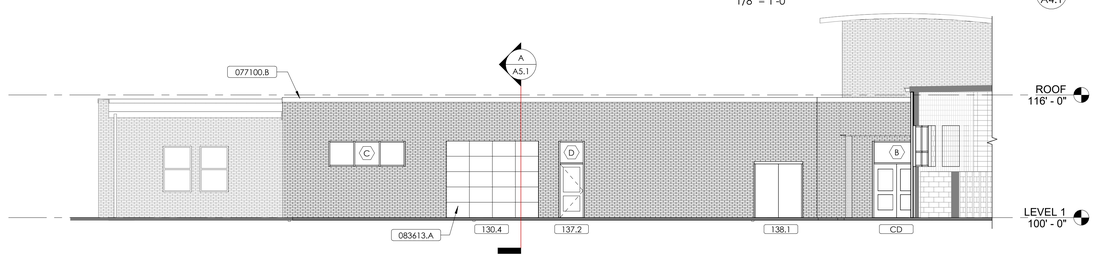
BUILDING ELEVATION
1/8" = 1'-0"
F
A4.1



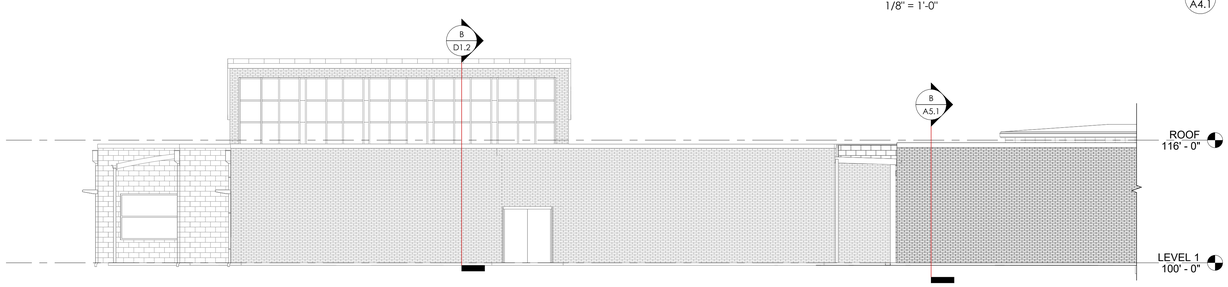
BUILDING ELEVATION
1/8" = 1'-0"
D
A4.1



BUILDING ELEVATION
1/8" = 1'-0"
C
A4.1



BUILDING ELEVATION - NORTH
1/8" = 1'-0"
B
A4.1



BUILDING ELEVATION - EAST
1/8" = 1'-0"
A
A4.1

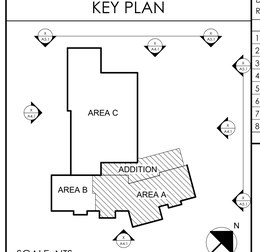
MATERIAL REFERENCE

042000.B	Face Brick
077100.B	Coping
083613.A	Sectional Door

GENERAL ELEVATION NOTES

1. COORDINATE EXTERIOR FINISHES WITH CHANGES IN GRADE. REFER TO SITE DRAWINGS FOR GRADE INFORMATION.
2. COORDINATE LOCATION OF DOWNSPOUT BOOTS WITH SITE DRAWINGS.
3. COORDINATE FOUNDATION DESIGN WITH STRUCTURAL DRAWINGS.

KEY PLAN



SCALE: NTS

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FOR:
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LEBANON, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No: 25015
Drawn By: BR / HS
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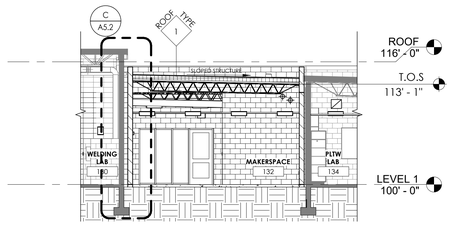
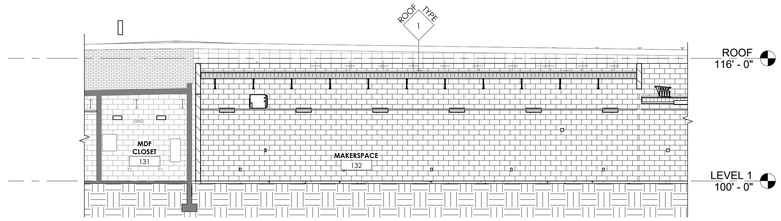
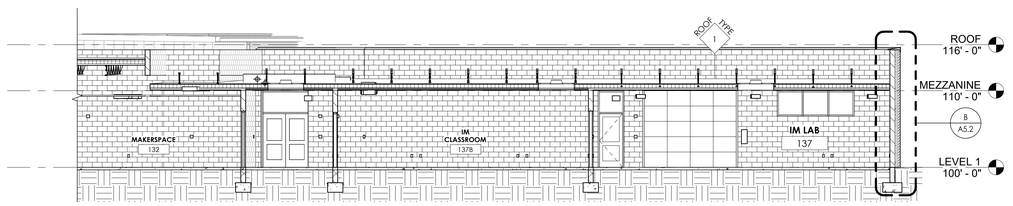


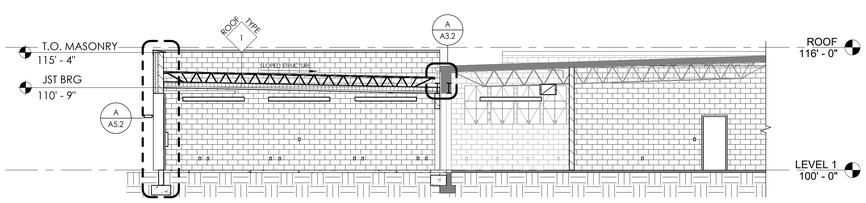
BUILDING SECTION
1/8" = 1'-0"
D
A5.1



BUILDING SECTION
1/8" = 1'-0"
C
A5.1



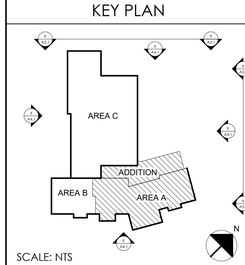
BUILDING SECTION
1/8" = 1'-0"
B
A5.1



BUILDING SECTION
1/8" = 1'-0"
A
A5.1

MATERIAL REFERENCE

KEY PLAN



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Lexington, KY Office
p 859.253.0892

Structural Engineer:
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Project No: 25015
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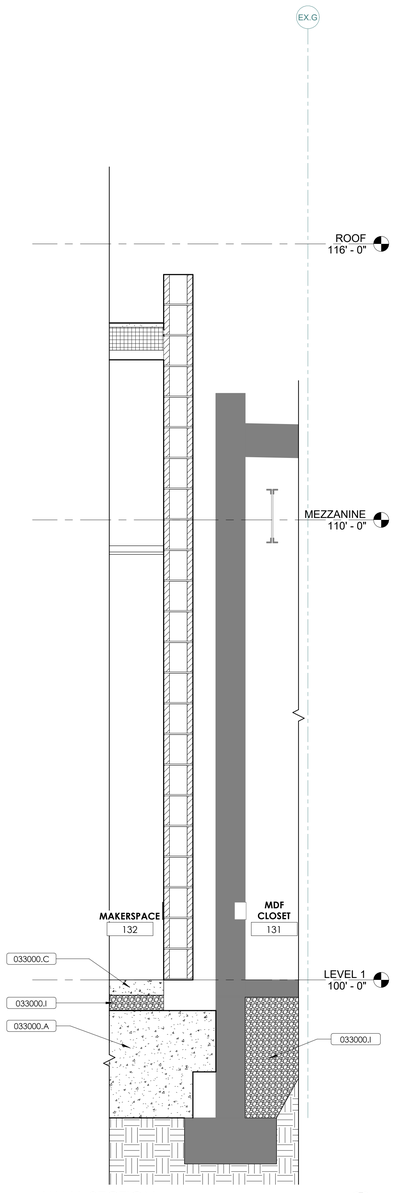
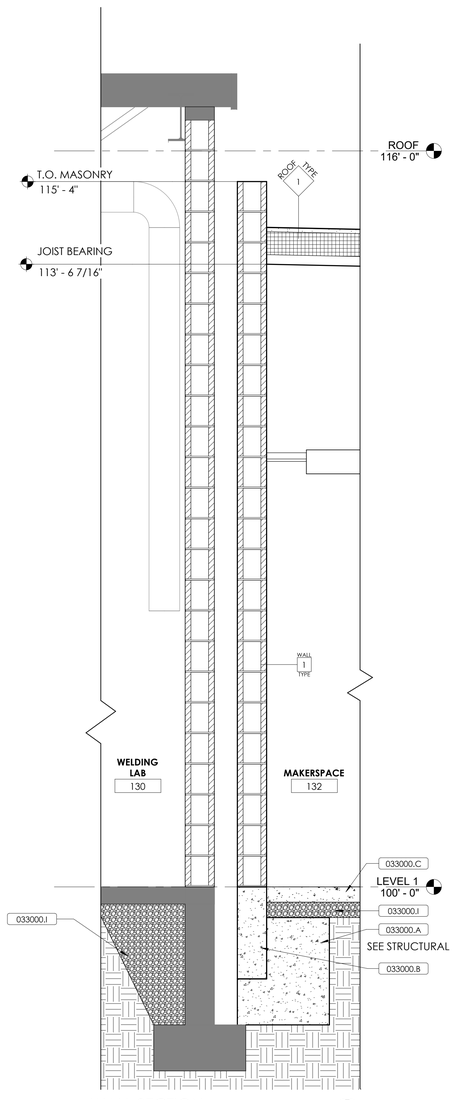
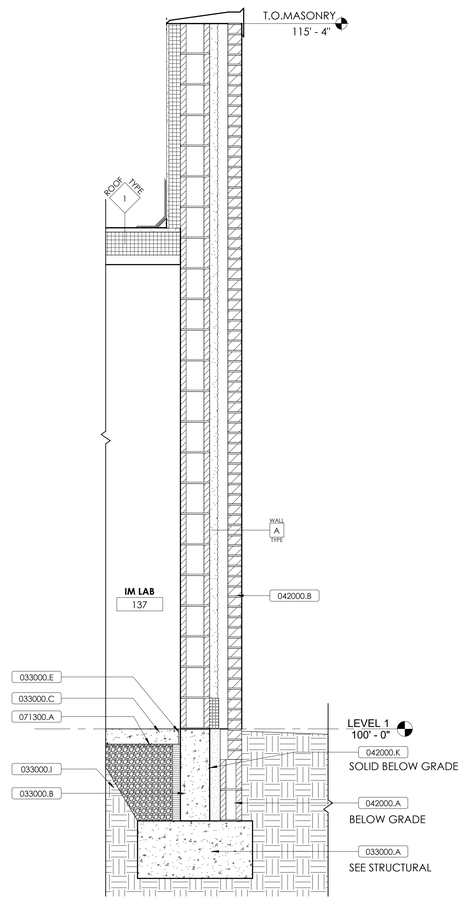


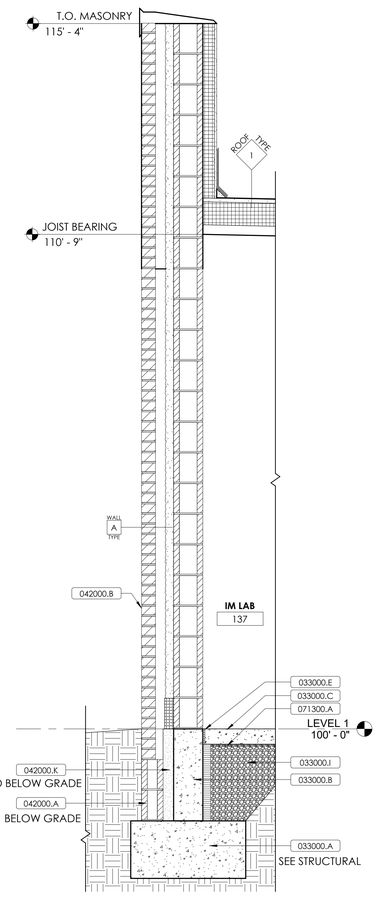
WALL SECTION
3/4" = 1'-0"
D
A5.2



WALL SECTION
3/4" = 1'-0"
C
A5.2



WALL SECTION
3/4" = 1'-0"
B
A5.2



WALL SECTION
3/4" = 1'-0"
A
A5.2

MATERIAL REFERENCE

033000.A	Footing
033000.B	Foundation Wall
033000.C	Slab-on-Grade
033000.E	Isolation Joint Material
033000.I	Granular Sub-base
042000.A	Concrete Masonry Unit
042000.B	Face Brick
042000.K	Grout
071300.A	Underslab Vapor Barrier

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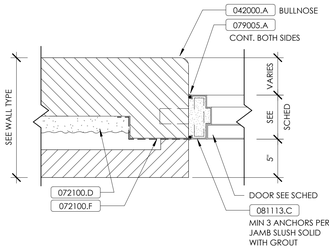
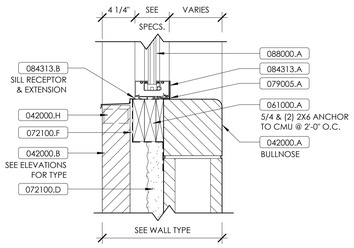


H.M. EXT. JAMB - CMU
1 1/2" = 1'-0" (O A6.1)



ALUM. S.F. EXT. SILL - CMU
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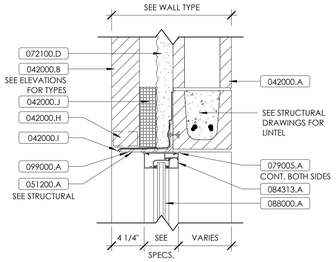
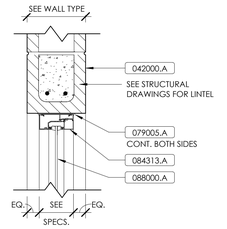


ALUM. S.F. EXT. HEAD - CMU 2
1 1/2" = 1'-0" (K A6.1)



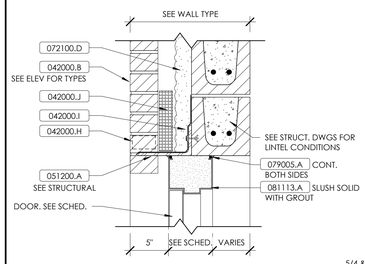
ALUM. S.F. INT. HEAD - CMU 1
1 1/2" = 1'-0" (H A6.1)

SCHEDULE OF DOORS AND FRAMES

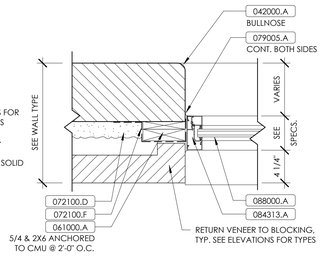
DOOR NUMBER	PAIR	DOOR W	DOOR H	DOOR THICK	DOOR MAT	DOOR TYPE	DOOR GLASS	FRAME MAT	FRAME TYPE	FRAME THICK	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FIRE RATING	COMMENTS
111.2		3' - 0"	7' - 0"	1 3/4"	HM	F				5 3/4"				
111.4		3' - 0"	7' - 2"	1 3/4"	AL	AL2				4 1/2"				
120.1		3' - 0"	7' - 0"	1 3/4"	HM	F				5 7/8"				
120.2		12' - 0"	12' - 0"	2"	METAL (DOOR)	SD								
120.3		12' - 0"	12' - 0"	2"	METAL (DOOR)	SD								
120.4		12' - 0"	12' - 0"	2"	METAL (DOOR)	SD								
120.5		12' - 0"	12' - 0"	2"	METAL (DOOR)	SD								
120.6		12' - 0"	12' - 0"	2"	METAL (DOOR)	SD								
123.1		12' - 0"	12' - 0"	2"	METAL (DOOR)	SD								
123.2		12' - 0"	12' - 0"	2"	METAL (DOOR)	SD								
125		12' - 0"	12' - 0"	2"	METAL (DOOR)	SD								
130		10' - 8"	12' - 0"	2"	METAL (DOOR)	SD								
130.4		12' - 0"	10' - 0"	2"	METAL (DOOR)	SD								
132.1		3' - 0"	7' - 2"	1 3/4"	AL	AL2				4 1/2"				
132.2	X	6' - 0"	7' - 0"	1 3/4"	HM	F				5 3/4"				
132A		3' - 0"	7' - 0"	1 3/4"	HM	F				5 3/4"				
133.2		3' - 0"	7' - 2"	1 3/4"	AL	AL2				4 1/2"				
134.2		3' - 4"	7' - 0"	1 3/4"	HM	F				5 7/8"				
134A		3' - 0"	7' - 0"	1 3/4"	HM	F				5 3/4"				
135		3' - 0"	7' - 0"	1 3/4"	HM	F				5 3/4"				
136A		3' - 0"	7' - 0"	1 3/4"	HM	F				5 7/8"				
137.1		3' - 0"	7' - 0"	1 3/4"	HM	F				5 7/8"				
137.2		3' - 0"	7' - 0"	1 3/4"	AL	AL1				4 1/2"				
137A		3' - 0"	7' - 0"	1 3/4"	HM	F				5 3/4"				
137B		3' - 0"	7' - 0"	1 3/4"	HM	F				5 7/8"				
138.1		6' - 0"	7' - 0"	1 3/4"	HM	F				5 3/4"				
138.2		3' - 0"	7' - 0"	1 3/4"	HM	F				5 7/8"				
CD		6' - 0"	7' - 0"	1 3/4"	AL	AL1				0"				

MATERIAL REFERENCE

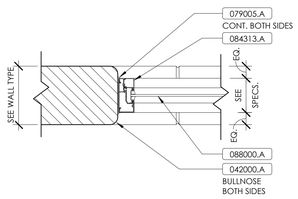
042000.A	Concrete Masonry Unit
042000.B	Face Brick
042000.H	Vents and Weeps
042000.I	Through Wall Flashing
042000.J	Mortar Deflection Material
051200.A	Structural Steel Member
061000.A	Wood Blocking
072100.D	Sprayed-In-Place Thermal Insulation
072100.F	Transition Membrane
079005.A	Joint Sealant
081113.A	Steel Doors & Frames
081113.C	Steel Frame
084313.A	Aluminum Storefront Window
084313.B	Aluminum Storefront Framing
088000.A	Glazing
092116.A	Gypsum Board Assemblies
099000.A	Paint



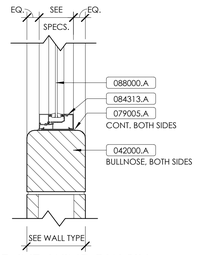
H.M. EXT. HEAD - CMU
1 1/2" = 1'-0" (N A6.1)



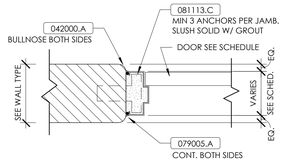
ALUM. S.F. EXT. JAMB
1 1/2" = 1'-0" (L A6.1)



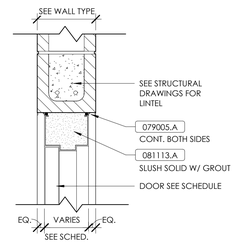
ALUM. S.F. INT. JAMB - CMU
1 1/2" = 1'-0" (J A6.1)



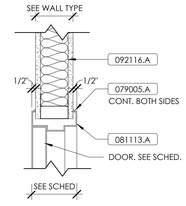
ALUM. S.F. INT. WINDOW SILL - CMU
1 1/2" = 1'-0" (G A6.1)



H.M. INT. DOOR JAMB - CMU
1 1/2" = 1'-0" (F A6.1)



H.M. INT. DOOR HEAD - CMU
1 1/2" = 1'-0" (E A6.1)



H.M. INT. DOOR HEAD - GYP
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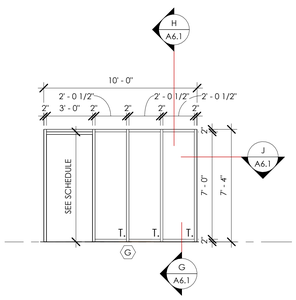
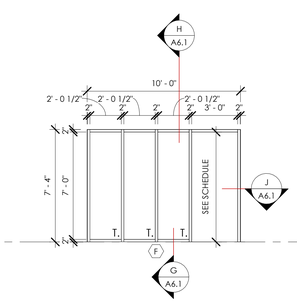
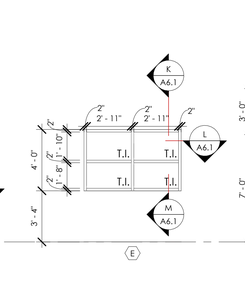
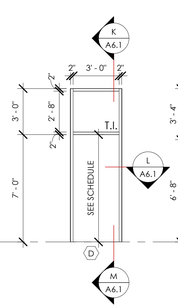
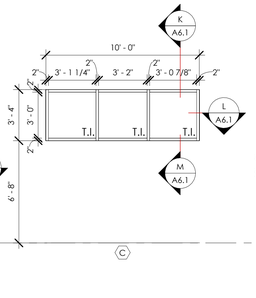
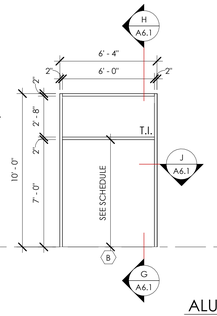


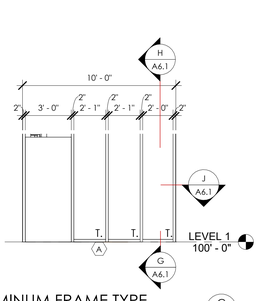




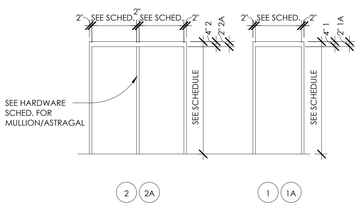




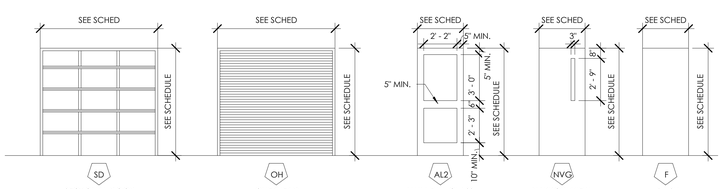




ALUMINUM FRAME TYPE
1/4" = 1'-0" (C A6.1)



HOLLOW METAL FRAME TYPES
N.T.S. (B A6.1)



DOOR TYPES
N.T.S. (A A6.1)

DOOR SCHEDULE ABBREVIATION LEGEND:

AL	=	ALUMINUM
AW	=	ALUMINUM WINDOW
ARG	=	ASSAULT RESISTANT GLAZING
BN	=	BULLNOSE
BR	=	BULLET RESISTANT GLAZING
CW	=	CURTAINWALL
F	=	FIRE RATED GLAZING
HM	=	HOLLOW METAL
I	=	INSULATED
IFA	=	INTEGRATED FRAME ASSEMBLY
IP	=	INFILL PANEL
L	=	LAMINATED
O	=	OBSCURE GLAZING
S	=	SMOKE
SF	=	STOREFRONT
SPG.	=	SPANDREL GLAZING
T.	=	TEMPERED
T.I.	=	TEMPERED INSULATED
W	=	WIRE GLASS
WD	=	WOOD

*SEE DRAWING A0.1 FOR MORE ABBREVIATIONS.

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DOORS AND FRAME SCHEDULE
MARION COUNTY ATC - RENOVATION & ADDITION
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DESIGN DEVELOPMENT

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DOORS AND FRAME SCHEDULE

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

MATERIAL REFERENCE

GENERAL RCP NOTES

1. LIGHT FIXTURES AND HVAC ITEMS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE ALL DIFFUSERS, SPRINKLER HEADS AND LIGHTING FIXTURES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS.
2. SOFFITS AND BULKHEADS WILL RECEIVE ACCENT PAINT COLOR(S) TBD. HORIZONTAL AND VERTICAL SURFACES OF SOFFITS AND BULKHEADS WILL BE PAINTED AN ACCENT COLOR.
3. ALL GYPSUM BOARD CEILINGS, SOFFITS, METAL DECKING, STRUCTURAL ELEMENTS, CONDUIT, AND ETC., REMAINING EXPOSED AFTER CONSTRUCTION IS COMPLETE WILL RECEIVE A FINISH SYSTEM U.N.O. REFER TO THE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL INFORMATION.
4. REFER TO THE A1 DRAWINGS FOR REQUIRED FIRE RATINGS OF WALLS AND CEILINGS.
5. DIMENSIONS OF SOFFITS ARE TO THE FACE OF FINISHED GYPSUM BOARD.
6. ELEVATIONS INDICATED ARE TO THE BOTTOM OF FINISH MATERIAL FROM ABOVE FINISH FLOOR.
7. GYPSUM BOARD IS TO BE EXTENDED FOUR INCHES MINIMUM ABOVE FINISHED CEILINGS AT SOFFITS AND BULKHEADS THAT ARE NOT REQUIRED TO MAINTAIN A FIRE RATING OR ACOUSTIC SEPARATION.
8. RECESS FACE OF GYPSUM BOARD INTERIOR SOFFITS AND BULKHEADS ONE INCH FROM FACE OF BULLNOSE CMU.

RCP NOTES

#	
1	GYPSUM BOARD SOFFIT/BULKHEAD. REFER TO TYPICAL DETAILS. (092116).
2	GYPSUM BOARD CEILING. PROVIDE FRAMING AND SUPPORTS AS REQUIRED (092116).
3	1-HR RATED GYPSUM BOARD CEILING PER UL DESIGN NO. P523
4	SPECIALTY LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
5	UTILITY CHASE
6	OVERHEAD PROJECTOR MOUNT. SEE ELECTRICAL DRAWINGS FOR POWER AND DATA. (111330)
7	RECESSED PROJECTION SCREEN. (115213)
8	MOVABLE PARTITION TRACK. REFER TO TYPICAL PARTITION TRACK DETAIL.
9	OPEN TO ABOVE; EXPOSED STRUCTURE. REFER TO ROOM FINISH SCHEDULE FOR MORE INFORMATION.
10	SPRAYED-ON ACOUSTICAL INSULATION (072129). REFER TO ROOM FINISH SCHEDULE FOR MORE INFORMATION.
11	ROOF ACCESS LADDER AND HATCH. (055000)
12	EXISTING CEILING TO REMAIN.
13	PROVIDE GYPSUM BOARD BULKHEAD AT COOLER/FREEZER ENCLOSURE. COORDINATE HEIGHT AND LOCATION WITH COOLER/FREEZER SUPPLIER. (092116)
14	COOLER/FREEZER ENCLOSURE PANEL. COORDINATE HEIGHT AND LOCATION WITH COOLER/FREEZER SUPPLIER.
15	KITCHEN EQUIPMENT PENETRATIONS. REFER TO FOOD SERVICE DRAWINGS FOR MORE INFORMATION.
16	LINEAR METAL CEILING SYSTEM (095423.A)
17	MANUAL ROLLERSHADE (122413).
18	MOTORIZED ROLLERSHADE (124930).

RCP LEGEND

- ROOM NAME / ROOM NUMBER # / CLG. HGT. # — ROOM TAG W/ CEILING HEIGHT
- X'-X" — BOTTOM OF SOFFIT ELEVATION ABOVE FINISHED FLOOR
- ACOUSTICAL CEILING TILE & GRID. REFER TO A2 SHEETS FOR SIZES & TYPES
- GYPSUM BOARD BULKHEAD/SOFFIT/CEILING
- HVAC DIFFUSER
- LIGHT FIXTURE IN ACOUSTICAL CEILING GRID
- LIGHT FIXTURE
- RECESSED LIGHT FIXTURE

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

NOT FOR CONSTRUCTION

REFLECTED CEILING PLAN - AREA A
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.P. Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No:	25015
Drawn By:	BR / HS
Rev'd By:	RB

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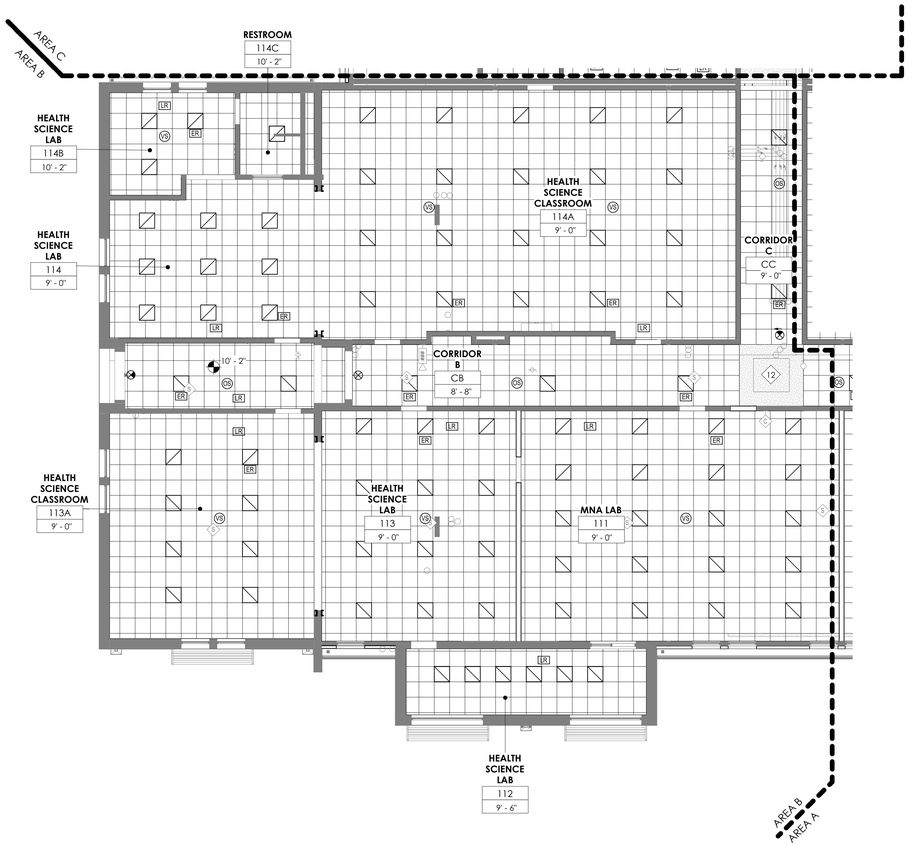
REFLECTED CEILING PLAN - AREA A
DATE ISSUED:
12/04/25



FIRST FLOOR RCP - AREA B
1/8" = 1'-0"
A A7.2

MATERIAL REFERENCE

GENERAL RCP NOTES

1. LIGHT FIXTURES AND HVAC ITEMS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE ALL DIFFUSERS, SPRINKLER HEADS AND LIGHTING FIXTURES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS.
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RCP NOTES

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RCP LEGEND

- ROOM TAG W/ CEILING HEIGHT (ROOM NAME / ROOM NUMBER # / CLG. HGT. #)
- BOTTOM OF SOFFIT ELEVATION ABOVE FINISHED FLOOR (X'-X")
- ACOUSTICAL CEILING TILE & GRID. REFER TO A2 SHEETS FOR SIZES & TYPES
- GYPSUM BOARD BULKHEAD/SOFFIT/CEILING
- HVAC DIFFUSER
- LIGHT FIXTURE IN ACOUSTICAL CEILING GRID
- LIGHT FIXTURE
- RECESSED LIGHT FIXTURE

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REFLECTED CEILING PLAN - AREA B
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
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Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No: 25015
Drawn By: BR / HS
Rev'd By: RB

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REFLECTED CEILING PLAN - AREA B
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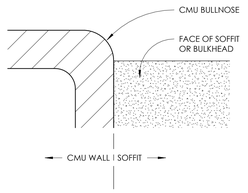
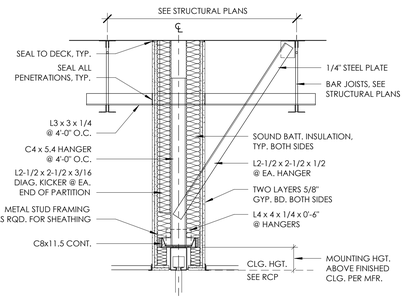
12/04/25

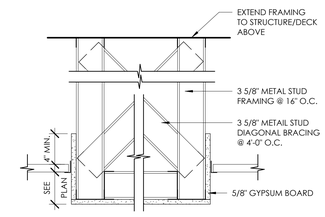


PLAN VIEW

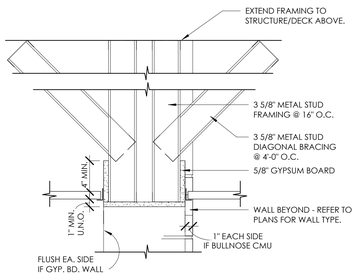
TYPICAL SOFFIT DETAIL (E A7.3)
N.T.S.



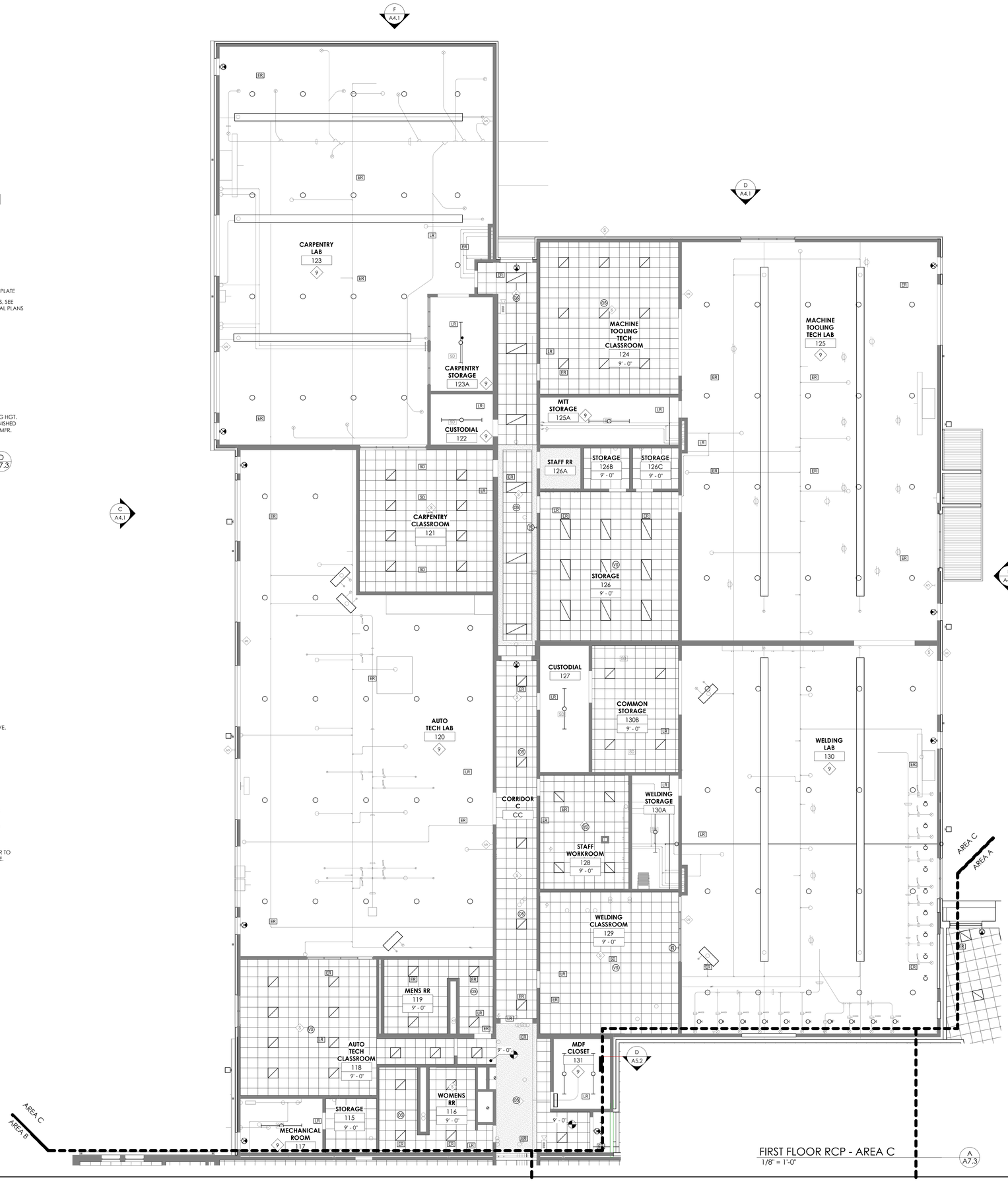
TYPICAL PARTITION TRACK DETAIL (D A7.3)
3/4" = 1'-0"



TYPICAL SOFFIT DETAIL (C A7.3)
1 1/2" = 1'-0"



TYPICAL BULKHEAD DETAIL (B A7.3)
1 1/2" = 1'-0"



FIRST FLOOR RCP - AREA C
1/8" = 1'-0" (A A7.3)

MATERIAL REFERENCE

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1. LIGHT FIXTURES AND HVAC ITEMS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE ALL DIFFUSERS, SPRINKLER HEADS AND LIGHTING FIXTURES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS.
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- LIGHT FIXTURE IN ACOUSTICAL CEILING GRID
- LIGHT FIXTURE
- RECESSED LIGHT FIXTURE

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101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

NOT FOR CONSTRUCTION

REFLECTED CEILING PLAN - AREA C - RENOVATION & ADDITION
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.P. Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No:	25015
Drawn By:	BR / HS
Rev'd By:	RB

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DESIGN DEVELOPMENT

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REFLECTED CEILING PLAN - AREA C
DATE ISSUED:
12/04/25

REVISIONS

#	DATE	DESCRIPTION

MECHANICAL SITE NOTES

A DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS.

B CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, etc. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK.

C FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.

D WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICES IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.

E PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, THE ARCHITECT AND THE BUILDING OPERATORS AT LEAST ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK.

F LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY (CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL ALSO BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE BUILDING ENGINEER AND THE MECHANICAL ENGINEER'S REPRESENTATIVE). CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES

G CONTRACTOR SHALL VERIFY EXACT LOCATION OF OUTDOOR RECEPTACLES WITH OWNER PRIOR TO ROUGH-IN.

H CONTRACTOR SHALL REFER TO CIVIL PLANS FOR COORDINATION WITH OTHER UTILITIES.

I COORDINATE ELEVATION AND LOCATION OF ALL CONDUITS ENTERING BUILDING WITH STRUCTURAL FOUNDATION. CONDUIT SHALL PASS THROUGH STEM WALL OF FOUNDATION OR UNDER FOOTING AS REQUIRED.

J THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE DRAWINGS ARE APPROXIMATE ONLY.

K THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PRIOR TO DIGGING. IN THE EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTRACTOR WILL IMMEDIATELY NOTIFY THE OTHER UTILITY OWNERS.

L THE UTILITY/CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD OTHER EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE OTHER UTILITIES. THE UTILITY WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT

M COORDINATE UNDERGROUND ELECTRICAL WITH ALL LANDSCAPING AND FENCING, ADJUST ELECTRICAL LINES TO AVOID CONFLICTS. REFER TO LANDSCAPING PLANS FOR FURTHER INFORMATION. AVOID ROUTING UNDERGROUND CONDUITS UNDER ROADWAYS OR PARKING LOTS, CROSS ROADWAYS WITH UNDERGROUND CONDUITS AT 90 ANGLES WHERE POSSIBLE.

N IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INSURE THAT ANY ABANDONED PIPING UNCOVERED IN THE COURSE OF THEIR WORK SHALL BE CAPPED WATER TIGHT.

O TRENCHES FOR UTILITIES SHALL BE BACKFILLED PER MECHANICAL DETAILS AND SPECIFICATIONS. PAVEMENT, ASPHALT, AND OTHER SURFACE WORK SHALL BE PER CIVIL ENGINEERING DRAWINGS AND SPECIFICATIONS.

P THE CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RINGS AND COVERS AFFECTED BY THIS PROJECT AS NECESSARY TO BE FLUSH WITH NEW GRADE.

Q CONTRACTOR SHALL COORDINATE RESPONSIBILITIES WITH CONSTRUCTION MANAGER. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

R THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND SIZING OF ALL EXPANSION LOOPS PER PIPING MANUFACTURER'S REQUIREMENTS.

S REFER TO ARCHITECT'S PHASING PLAN FOR CONSTRUCTION PHASING REQUIREMENTS.

T ALL SITE WORK SHALL BE COORDINATED WITH UNIVERSITY OF KENTUCKY PHYSICAL PLANT DIVISION (PPD). ALL OUTAGES SHALL BE SCHEDULED A MINIMUM OF TWO WEEKS IN ADVANCE.

SITE UTILITIES LEGEND

	EXISTING, DEMOLITION, NEW WORK
S S S	SANITARY MANHOLE
	FIRE HYDRANT
	WATER VALVE
ECO D/(ECO) ECO	EXTERIOR CLEANOUT
TB D/(TB) TB	THRUST BLOCK
—XXX—	NEW PIPING - (XXX) DENOTES SYSTEM
- - D(XXX) - -	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
—E(XXX)—	EXISTING PIPING - (XXX) DENOTES SYSTEM
—A(XXX)—	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM
—OP—	OVERHEAD PRIMARY
—OS—	OVERHEAD SECONDARY
—OSL—	OVERHEAD STREET LIGHT
—OTS—	OVERHEAD TRAFFIC SIGNAL
—OT—	OVERHEAD TELECOMMUNICATIONS
—OF—	OVERHEAD FIBER OPTIC
—OTV—	OVERHEAD CATV
—UP—	UNDERGROUND PRIMARY
—US—	UNDERGROUND SECONDARY
—USL—	UNDERGROUND STREET LIGHT
—UTS—	UNDERGROUND TRAFFIC SIGNAL
—UT—	UNDERGROUND TELECOMMUNICATIONS
—UF—	UNDERGROUND FIBER OPTIC
—UTV—	UNDERGROUND CATV
—CHW—	CHILLED WATER
—W—	DOMESTIC WATER
—HPS/R—	HIGH PRESSURE SUPPLY/R
—PD—	PUMPED DISCHARGE RETURN
—SS—	SANITARY SEWER
—STORM—	STORM

1 MECHANICAL SITE UTILITY PLAN

SCALE: 1" = 20'-0"

0 15' 30' 60' 90' 120'

BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

NOT FOR CONSTRUCTION

MECHANICAL SITE UTILITY PLAN

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:

MARION COUNTY BOARD OF EDUCATION

LEBANON, KENTUCKY

M.E.&P Engineer:
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BG 25-341

Project No: 25015/XMTC25
Drawn By: NRG
Rev'd By: BDH

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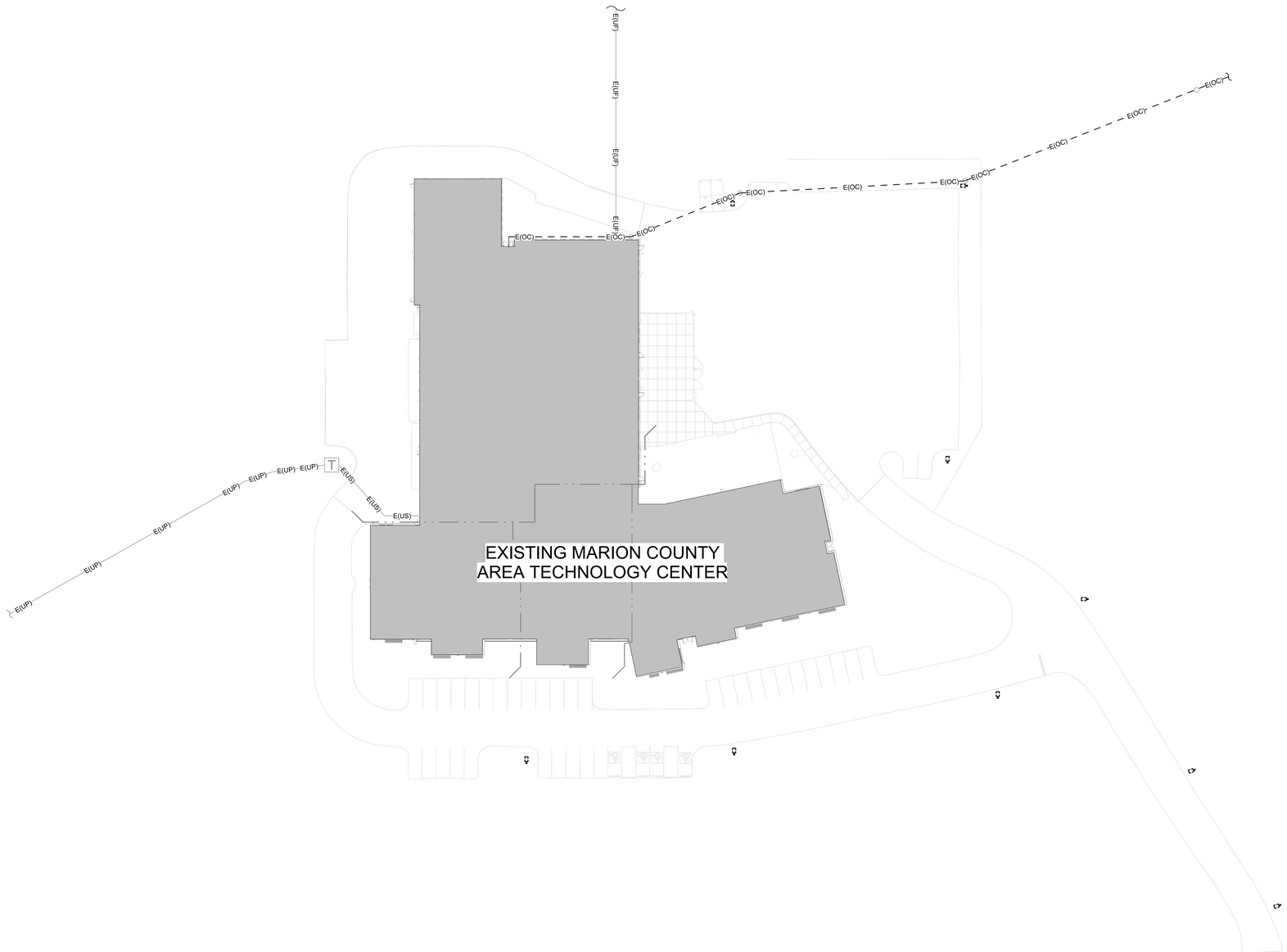
MECHANICAL SITE UTILITY PLAN

DATE ISSUED:
12/04/2025

REVISIONS

#	DATE	DESCRIPTION



1 EU100 **Electrical Site Utility Demolition Plan**
1/32" = 1'-0"

TAGGED NOTES

(##)

ELECTRICAL SITE NOTES

A DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.

B REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO: THE SITE SURVEY, THE ARCHITECTURAL SITE PLAN, THE SITE GRADING PLAN, THE PLANTING PLAN (WHERE AVAILABLE), FOUNDATION PLAN(S), APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS, THE SITE UTILITY PLAN - MECHANICAL & ELECTRICAL. WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECIFICATIONS, ADVISE THESE ENGINEERS AT LEAST TEN DAYS PRIOR TO SUBMISSION OF BIDS.

C ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT.

D FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.

E WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICE IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.

F LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY. CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS.

G PROVIDE LONG RADIUS ELBOWS FOR UNDERGROUND CONDUIT BENDS. WHERE SERVING A UTILITY OWNED TRANSFORMER, THE UTILTY STANDARDS SHALL TAKE PRECEDENCE.

H UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE ENGINEER. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.

I PROVIDE GALVANIZED RIGID CONDUIT FOR EXTERIOR UNDERGROUND TRANSITIONS TO ABOVE GRADE; EXTEND CONDUIT A MINIMUM OF 6" ABOVE GRADE.

J CONTRACTOR SHALL PERFORM A SMOKE TEST ON ALL CONDUITS INSTALLED ON SITE AND SHALL TAKE ALL NECESSARY CORRECTIVE ACTION IF NOT FOUND IN COMPLIANCE WITH FACILITY STANDARDS.

K CONTRACTOR SHALL CONTACT ENGINEER FOR INSPECTION OF TRENCHES PRIOR TO INSTALLATION OF CONDUITS OR RACEWAYS. PROVIDE PHOTOS UPON REQUEST.

L CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FINISH GRADE, SEED AND STRAW ALL DISTURBED GREEN SPACES. ALL PATCH AND REPAIR WORK SHALL BE IN ACCORDANCE WITH BOTH CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS.

M COORDINATE UNDERGROUND ELECTRICAL WITH ALL LANDSCAPING AND FENCING, ADJUST ELECTRICAL LINES TO AVOID CONFLICTS. REFER TO LANDSCAPING PLANS FOR FURTHER INFORMATION. AVOID ROUTING UNDERGROUND CONDUITS UNDER ROADWAYS OR PARKING LOTS, CROSS ROADWAYS WITH UNDERGROUND CONDUITS AT 90 ANGLES WHERE POSSIBLE.

N PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, THE ARCHITECT, AND THE BUILDING OPERATORS AT LEASTE ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK.

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Q THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD OTHER EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE OTHER UTILITIES, THE UTILITY WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT.

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V WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.

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rosstarrant architects
101 old lotoyette avenue lexington, kentucky 40502 p 859.254.4018

NOT FOR CONSTRUCTION

ELECTRICAL SITE UTILITY DEMOLITION PLAN

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:

MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG

Project No: 25015/XMTC25
Drawn By: TSW
Rev'd By: GMB

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EU100

ELECTRICAL SITE UTILITY DEMOLITION PLAN
DATE ISSUED:
12/04/2025

REVISIONS

#	DATE	DESCRIPTION

1 EU101 **Electrical Site Utility Plan**
1" = 30'-0"

ELECTRICAL SITE NOTES

A DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.

B REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO: THE SITE SURVEY, THE ARCHITECTURAL SITE PLAN, THE SITE GRADING PLAN, THE PLANTING PLAN (WHERE AVAILABLE), FOUNDATION PLAN(S), APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS, THE SITE UTILITY PLAN – MECHANICAL & ELECTRICAL. WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECIFICATIONS, ADVISE THESE ENGINEERS AT LEAST TEN DAYS PRIOR TO SUBMISSION OF BIDS.

C ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT.

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TAGGED NOTES

(##)

SITE UTILITIES LEGEND

	EXISTING, DEMOLITION, NEW WORK
	SANITARY MANHOLE
	FIRE HYDRANT
	WATER VALVE
ECO D(ECO) ECO	EXTERIOR CLEANOUT
TB D(TB) TB	THRUST BLOCK
—XXX—	NEW PIPING - (XXX) DENOTES SYSTEM
--D(XXX)--	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
—E(XXX)—	EXISTING PIPING - (XXX) DENOTES SYSTEM
—A(XXX)—	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM
—OP—	OVERHEAD PRIMARY
—OS—	OVERHEAD SECONDARY
—OSL—	OVERHEAD STREET LIGHT
—OTS—	OVERHEAD TRAFFIC SIGNAL
—OT—	OVERHEAD TELECOMMUNICATIONS
—OF—	OVERHEAD FIBER OPTIC
—OTV—	OVERHEAD CATV
—UP—	UNDERGROUND PRIMARY
—US—	UNDERGROUND SECONDARY
—USL—	UNDERGROUND STREET LIGHT
—UTS—	UNDERGROUND TRAFFIC SIGNAL
—UT—	UNDERGROUND TELECOMMUNICATIONS
—UF—	UNDERGROUND FIBER OPTIC
—UTV—	UNDERGROUND CATV
—CHW—	CHILLED WATER
—W—	DOMESTIC WATER
—HPS/R—	HIGH PRESSURE SUPPLY/R
—PD—	PUMPED DISCHARGE RETURN
—SS—	SANITARY SEWER
—STORM—	STORM

BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.

UTILITY COMPANY CONTACTS:

POWER:		
COMPANY	FirstName LastName	### ###.####
TELEPHONE:		
COMPANY	FirstName LastName	### ###.####
CABLE TELEVISION:		
COMPANY	FirstName LastName	### ###.####
WATER SEWER:		
COMPANY	FirstName LastName	### ###.####
GAS:		
COMPANY	FirstName LastName	### ###.####
FIRE CHIEF:		
FIRE DEPARMENT	FirstName LastName	### ###.####

IT IS THE CONTRACTORS RESPONSIBILITY TO MEET ALL LOCAL ORDINANCE AND MUNICIPAL REQUIREMENTS RELATED TO UTILITY INSTALLATION, INSPECTIONS, MATERIALS, FEES, ETC.

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

NOT FOR CONSTRUCTION

ELECTRICAL SITE UTILITY PLAN
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG

Project No: 25015/XMTC25
Drawn By: TSW
Rev'd By: CMB

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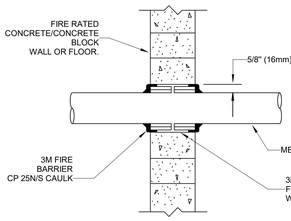
EU101

ELECTRICAL SITE UTILITY PLAN

DATE ISSUED:
12/04/2025

REVISIONS

#	DATE	DESCRIPTION



NOTES:

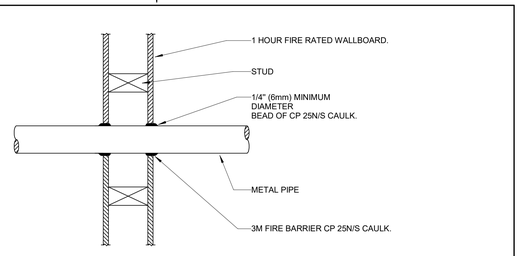
1. THE MAXIMUM ANNULAR SPACE AROUND THE METAL PIPE OR CONDUIT IS 5/8" (16mm). (IF THE ANNULAR SPACE EXCEEDS 5/8" PATCH THE WALL AND PENETRATE WALL AT ANOTHER LOCATION).
2. WRAP THE 3M MODEL# FS-195 WRAP/STRIP AROUND THE PIPE/CONDUIT, FOIL SIDE OUT, TO FILL THE SPACE BETWEEN THE PIPE/CONDUIT AND THE WALL OPENING. THE 3M MODEL# FS-195 WRAP/STRIP SHOULD BE TIGHTLY SECURED WITH ALUMINUM FOIL TAPE OR STEEL TIE WIRE AND PUSHED INTO THE OPENING UNTIL THE TOP EDGE OF THE WRAP IS FLUSH WITH THE WALL SURFACE. THE IDENTICAL INSTALLATION SHOULD BE INSTALLED ON THE OTHER SIDE OF THE WALL.
3. USE 3M MODEL# CP 25N/S(NO SAG) CAULK TO FILL THE AREA BETWEEN THE FS-195 WRAP/STRIP AND THE EDGES OF THE OPENING AND ANY VOIDS IN THE 3M MODEL# FS-195 WRAP/STRIP. A FILL OF CP 25 CAULK SHOULD COAT ALL EXPOSED EDGES OF THE FS-195 WRAP/STRIP AND COMPLETELY SEAL THE AREA BETWEEN THE FS-195 WRAP/STRIP, THE PIPE/CONDUIT AND THE WALL SURFACE.

PENETRATION FIRESTOP FOR METAL PIPE/CONDUIT THROUGH A CONCRETE WALL

NOT TO SCALE

FIRE STOPPING NOTES:

1. FIRE STOPPING IS CRITICAL AND MUST BE ACCOMPLISHED. ALL PIPES MUST BE FIRESTOPPED WHERE THEY PENETRATE FIRE RESISTIVE, FIRE RATED, AND SMOKE RESISTIVE WALLS OR FLOORS. ALL FLOORS CORRIDOR WALLS, STAIR WALLS, MECHANICAL ROOM WALLS, STORAGE ROOM WALLS AND OTHER HAZARDOUS ROOM WALLS ARE ONE HOUR RATED.
2. A FOUR-HOUR TRAINING SESSION SHALL BE CONDUCTED BY MANUFACTURER OF THE FIRESTOPPING MATERIAL. THIS SHALL BE DONE PRIOR TO THE INSTALLATION OF THE MATERIAL. CONTACT HOSPITAL ENGINEER AND CMTA TO ADVISE OF DATE AND TIME OF THIS MEETING.
3. ALL PENETRATIONS WILL BE REVIEWED BY THE HOSPITAL ENGINEER OR CMTA. PRIOR TO INSPECTION. ALL CEILING TILES BENEATH THE PENETRATIONS SHALL BE REMOVED BY THE CONTRACTOR.

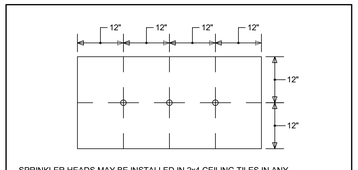


NOTES:

1. FORCE THE 3M MODEL# CP 25N/S CAULK INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE, FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm). (IF IT DOES PATCH WALL AND PENETRATE WALL AT ANOTHER LOCATION).
4. INSTALL THE 3M FIRESTOP ON BOTH SIDES OF THE WALL.

PENETRATION FIRESTOP FOR METAL PIPE/CONDUIT THROUGH ONE HOUR WALL

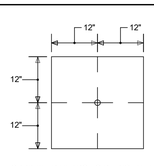
NOT TO SCALE



SPRINKLER HEADS MAY BE INSTALLED IN 2x4 CEILING TILES IN ANY OF THE THREE LOCATIONS INDICATED ABOVE. NO EXCEPTIONS!

2x4 CEILING TILE DETAIL

SCALE: NONE



SPRINKLER HEADS TO BE INSTALLED IN CENTER OF 2x2 CEILING TILES.

2x2 CEILING TILE DETAIL

SCALE: NONE

FIRE PROTECTION PHASING NOTES

A THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

FIRE PROTECTION HAZARDOUS MATERIALS NOTES

A THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.

B CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.

C IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY.

D THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.

E THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

FIRE PROTECTION GENERAL NOTES

A COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.

B THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

C WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.

D ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.

E COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.

F PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.

G OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)

H CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.

I IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB, CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.

J WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.

K ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.

L ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.

M ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.

N IN ACCORDANCE WITH K.R.S. ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KENTUCKY DIVISION OF PLUMBING AND/OR THE DIVISION OF WATER. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.

O LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.

P ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.

Q THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.).

R INSTALL ALL PIPING AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION, IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.

S SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.

T THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.

U WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.

V DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.

W ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.

X DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

Y VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.

Z ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.

AA WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.

AB THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND 2009 IECC.

AC THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND ASHRAE 90.1-2007.

AD WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

ABBREVIATIONS

ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
CLG	CEILING
CLR	CLEAR
DN	DOWN
ENGR	ENGINEER
EQ	EQUAL
ETR	EXISTING TO REMAIN
EXT	EXTERIOR
FVC	FIRE VALVE CABINET
FL	FLOOR
FLA	FULL LOAD AMPS
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FT	FEET **OR** FOOT
FUT	FUTURE
GA	GAGE/GAUGE
GAL	GALLON (-S)
GC	GENERAL CONTRACTOR
HORIZ	HORIZONTAL
ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)
IN	INCH (-ES)
INT	INTER (-IOR, -ERVAL)
IPS	IRON PIPE SIZE
LBS	POUNDS
LF	LINEAR FEET/FOOT
MAX	MAXIMUM
MFG	MANUFACTURER
MIN	MIN (-IMUM, -UTE)
MISC	MISCELLANEOUS
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA **OR** NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN **OR** NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DI (-AMETER, -MENSION)
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PPSI GAUGE
SQ FT	SQUARE FEET **OR** FOOT
TBD	TO BE DETERMINED

ABBREVIATIONS (CONTINUED)

TE	TOP ELEVATION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WT	WEIGHT
W/	WITH
W/O	WITHOUT
%	PERCENT
℄	CENTERLINE

GENERAL SYMBOLS

(#)	TAGGED NOTE DESIGNATOR
1	REVISION TRIANGLE
ROOM NAME (SEE A)	ROOM TAG
TAG XXX-# INSTANCE XXXX	EQUIPMENT TAG
	POINT OF CONNECTION / CONNECT TO EXISTING
	POINT OF DEMOLITION

MECHANICAL PIPING LEGEND

	PIPE ELBOW TURNING UP
	PIPE ELBOW TURNING DOWN
	PIPE TEE; CONNECTION ON TOP
	PIPE TEE; CONNECTION ON BOTTOM
	PIPE CAP
FP	FIRE PROTECTION PIPING
D(XXX)	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
E(XXX)	EXISTING PIPING - (XXX) DENOTES SYSTEM
A(XXX)	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM
	STRAINER
	MANUAL ISOLATION VALVE
	GLOBE VALVE
	OS&Y (GATE) VALVE
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY
	FLEXIBLE PIPE CONNECTION
	PIPING UNION
FS	FLOW SWITCH
PS	PRESSURE SWITCH
TS	TAMPER SWITCH
	PETE'S PLUG; TEMPERATURE/PRESSURE PORT
	SEMI-RECESSED SPRINKLER HEAD WITH REMOVABLE ESCUTCHEON PLATE
	UPRIGHT TYPE SPRINKLER HEAD
	SIDEWALL TYPE SPRINKLER HEAD

APPLICABLE BUILDING CODES

APPLICABLE BUILDING CODES	DOCUMENT	YEAR
ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	ANSI A117.1	2009
FIRE SPRINKLER CODE	NFPA 13	2013
INTERNATIONAL BUILDING CODE (IBC)	STATE EDITION	2015
INTERNATIONAL ENERGY CONSERVATION CODE (IECC)	STATE EDITION	2012
INTERNATIONAL FIRE CODE (IFC)	STATE EDITION	2015
INTERNATIONAL FUEL GAS CODE (IFGC)	STATE EDITION	2015
INTERNATIONAL MECHANICAL CODE (IMC)	STATE EDITION	2015
INTERNATIONAL PLUMBING CODE (IPC)	STATE EDITION	2015
INTERNATIONAL EXISTING BUILDING CODE (IEBC)	STATE EDITION	2009
NATIONAL ELECTRIC CODE (NEC)	NFPA 70	2023
NATIONAL FIRE ALARM & SIGNALING CODE	NFPA 72	2013
UNIFORM STATEWIDE BUILDING CODE		2018

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BG 25-341

Project No: 25015/XMTC25
Drawn By: NRG
Rev'd By: BDH

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FIRE PROTECTION LEGEND

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#	DATE	DESCRIPTION

SPRINKLER HEAD SELECTION

GEM, GRINNELL, STAR, VIKING, RELIABLE, CENTRAL OR APPROVED EQUIVALENT AS FOLLOWS:

- ALL SPRINKLER HEADS SHALL BE "QUICK ACTING" SEMI RECESSED SPRINKLER HEADS. EXTENDED RANGE SPRINKLER HEADS ARE NOT PERMITTED.
- PROVIDE "STANDARD UP RIGHT" SPRINKLERS WHERE PIPING IS EXPOSED.
- PROVIDE TWO PIECES, SEMI RECESSED, WHITE PLATED SPRINKLER HEADS WITH REMOVABLE ESCUTCHEON WHERE PIPING IS CONCEALED ABOVE FINISHED CEILINGS.
- PROVIDE SPRINKLER HEAD GUARDS WHERE HEADS ARE SUBJECT TO PHYSICAL ABUSE. HEADS LOCATED BELOW SEVEN (7) FEET ABOVE FLOOR, ETC.
- FLEXIBLE FIRE PROTECTION HEAD DROPS MAY BE PROVIDED AT THE CONTRACTORS OPTION. INSTALL IN ACCORDANCE WITH NFPA AND MANUFACTURER'S REQUIREMENTS.
- SPRINKLER HEAD DEGREE RATINGS SHALL BE DETERMINED BY THE AREA SERVICED IN ACCORD WITH CURRENT CODES AND STANDARD PRACTICES. INDICATE DEGREE RATINGS ON SUBMITTED SHOP DRAWINGS.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR INSPECTION, ONE (1) SAMPLE OF EACH TYPE OF SPRINKLER HEAD, PROPOSED TO BE USED ON THE PROJECT.
- HEADS SHALL BE INSTALLED IN THE MIDDLE OF THE TILES, AT HALF OR QUARTER POINTS ALONG THE LENGTH OF THE TILES. INSTALL SPRINKLER HEADS AT QUARTER POINTS OF CENTER SCOURED 2' X 4' CEILING TILES.
- PROVIDE HIGH TEMPERATURE HEADS AROUND RANGE HOODS, KITCHEN EQUIPMENT, KILNS, BOILERS, WATER HEATERS AND OTHER HEAT PRODUCING EQUIPMENT.

FIRE PROTECTION PIPE

WET SYSTEMS:

- NIPPLES AND FITTINGS SHALL BE OF SAME MATERIAL, COMPOSITION, AND WEIGHT CLASSIFICATION AS PIPE IN WHICH INSTALLED
- UP TO 2" (INTERIOR) SCHEDULE 40 ASTM A-53 BLACK STEEL; 125# CAST IRON SCREWED FITTINGS OR SCHEDULE 10, ASTM A-135 BLACK STEEL WITH VICTAULIC OR SIMILAR TYPE APPROVED FITTINGS.
- 2-1/2" AND LARGER (INTERIOR) SCHEDULE 40 BLACK STEEL WITH FLANGED, WELDED OR VICTAULIC (OR SIMILAR) TYPE APPROVED FITTINGS OR SCHEDULE 10, ASTM A-135 BLACK STEEL WITH VICTAULIC OR SIMILAR TYPE APPROVED FITTINGS.

DRY SYSTEMS:

- DRY PIPE SYSTEM PIPING: SAME AS WET SYSTEM EXCEPT SCHEDULE 10 PIPING IS NOT ACCEPTABLE.

BUILDING AREA CALCULATIONS

	AREA (SQ. FT)	NO. OF FIRE PROTECTION SYSTEM(S)
FIRST FLOOR	##,###	#
SECOND FLOOR	-	-
TOTAL	##,###	#

NFPA 13-19 ALLOWS MAXIUMUM 52,000 SQUARE FEET PER FLOOR PER SYSTEM RISER.

FLOW DATA

STATIC PSI:	###
RESIDUAL PSI:	###
FLOW:	#### GPM
DURATION:	CONTINUOUS
DATE & TIME:	##/##/202#
SOURCE OF WATER:	<INSERT WATER COMPANY>
SOURCE OF DATA:	<INSERT WHO DID TEST>
HAZARD:	<LIST HAZARD>
OCCUPANCY OF BUILDING:	<OCCUPANCY>

REMOTE AREA FIRE FLOW CALCULATION MATRIX

BUILDING LIGHT HAZARD FLOW

NFPA 13 HOSE STREAM TABLE 5-2.3	LIGHT HAZARD	TOTAL INSIDE AND OUTSIDE HOSE	100 GPM
NFPA 13 AREA/DENSITY CURVE TABLE 5-2.3	LIGHT HAZARD	REMOTE SPRINKLER DEMAND 0.10 GPM/FT^2 X 1,500 SQ. FT	150 GPM
		TOTAL	250 GPM

BUILDING ORDINARY GROUP 1 HAZARD FLOW

NFPA 13 HOSE STREAM TABLE 19.3.3.1.2	ORDINARY GROUP 1	TOTAL INSIDE AND OUTSIDE HOSE	250 GPM
NFPA 13 AREA/DENSITY CURVE TABLE 19.3.3.1.1	ORDINARY GROUP 1	REMOTE SPRINKLER DEMAND 0.15 GPM/FT^2 X 1,500 SQ. FT	225 GPM
		TOTAL	475 GPM

HIGH STACK STORAGE ORDINARY GROUP 2 HAZARD FLOW

NFPA 13 HOSE STREAM TABLE 19.3.3.1.2	ORDINARY GROUP 2	TOTAL INSIDE AND OUTSIDE HOSE	250 GPM
NFPA 13 AREA/DENSITY CURVE TABLE 19.3.3.1.1	ORDINARY GROUP 2	REMOTE SPRINKLER DEMAND 0.20 GPM/FT^2 X 1,500 SQ. FT	300 GPM
		TOTAL	550 GPM

FLOW CALCULATIONS BASED ON NFPA 13-19 FIGURE 19.3.3.1.1 DENSITY/AREA CURVES AND TABLE 19.3.3.1.2 HOSE STREAM ALLOWANCE FOR HYDRAULICALLY CALCULATED SYSTEMS.

REMOTE AREA PRESSURE LOSS CALCULATION

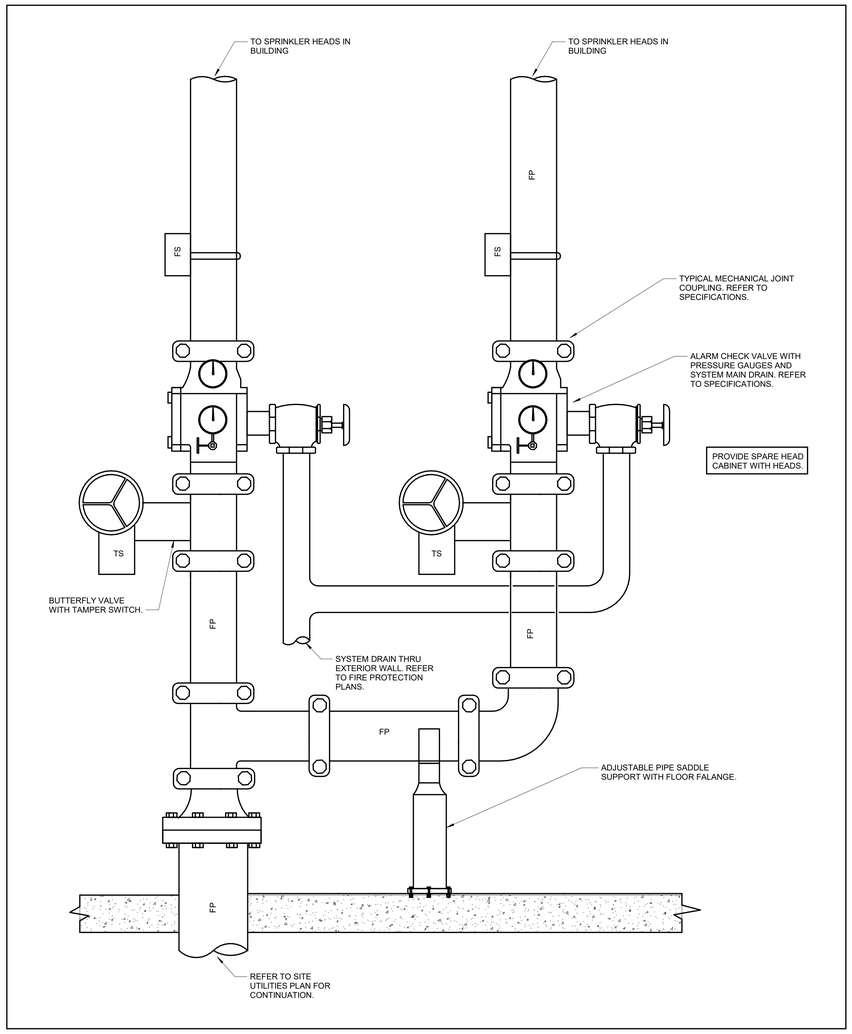
BUILDING LIGHT HAZARD PRESSURE LOSS AT 250 GPM

	HEAD LOSS	COMPONENT PRESSURE LOSS
SITE PIPE FRICTION	??? (?.?'/100') = ???' HD	??? PSI
SITE PIPE ELBOW EQUIVALENT LENGTH	??? (?.?'/100') = ???' HD	??? PSI
SITE ELEVATION HEAD LOSS	??'	??? PSI
BACKFLOW PREVENTION LOSS		5 PSI
BUILDING PIPE FRICTION LOSS	??? (?.?/100') = ???' HD	?? PSI
BUILDING ELBOW FRICTION LOSS	??? (?.?/100') = ???' HD	??? PSI
BUILDING ELEVATION HEAD LOSS	??'	??? PSI
REMOTE SPRINKLER HEAD LOSS		15 PSI
	TOTAL	??? PSI

BUILDING ORDINARY GROUP 1 HAZARD PRESSURE LOSS AT 475 GPM

	HEAD LOSS	COMPONENT PRESSURE LOSS
SITE PIPE FRICTION	??? (?.?'/100') = ???' HD	??? PSI
SITE PIPE ELBOWS EQUIVALENT LENGTH	??? (?.?'/100') = ???' HD	??? PSI
SITE ELEVATION HEAD LOSS	??'	??? PSI
BACKFLOW PREVENTION LOSS		5 PSI
BUILDING PIPE FRICTION LOSS	??? (?.?'/100') = ???' HD	?? PSI
BUILDING ELBOW FRICTION LOSS	??? (?.?'/100') = ???' HD	??? PSI
BUILDING ELEVATION HEAD LOSS	??'	??? PSI
REMOTE SPRINKLER HEAD LOSS		15 PSI
	TOTAL	??? PSI

PIPE AND ELBOW FRICTION COEFFICIENT WAS TAKEN FROM NFPA 13-19. TABLE 27.2.3.1.1.



FIRE PROTECTION SYSTEM RISER - WET
1/8" = 1'-0"
10 FP1.0

EQUIVALAENT SCHEDULE 40 STEEL PIPE LENGTH CHART

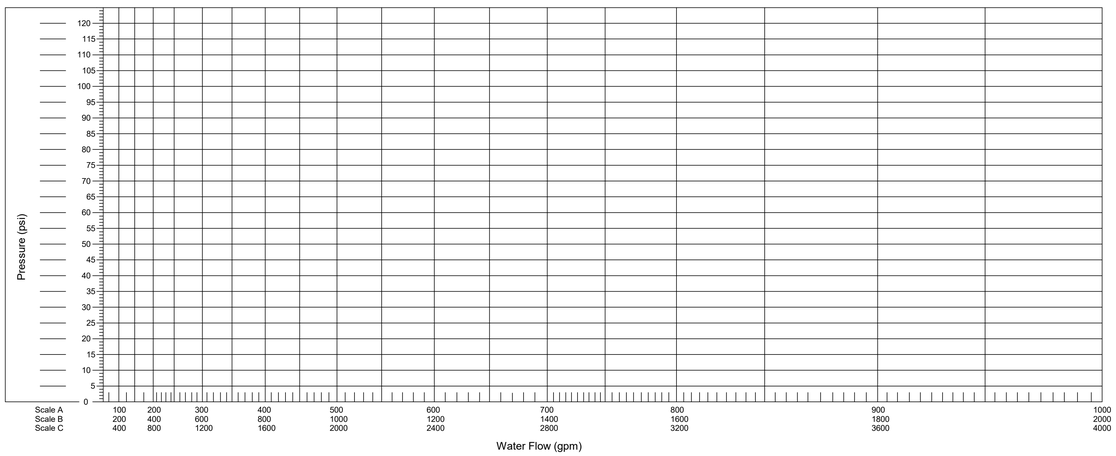
	FITTINGS AND VALVES EXPRESSED IN EQUIVALENT FEET OF PIPE									
	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"	8"
45° ELBOW	1	1	1	2	2	3	3	4	7	9
90° STANDARD ELBOW	2	2	3	4	5	6	7	10	14	18
90° LONG-TURN ELBOW	1	2	2	2	3	4	7	6	9	13
TEE OR CROSS	4	5	6	8	10	12	15	20	30	35
BUTTERFLY VALVE	-	-	-	-	6	7	10	12	10	12
GATE VALVE	-	-	-	-	1	1	1	2	3	4
VANE TYPE FLOW SWITCH	-	6	9	10	14	17	22	30	16	22
SWING CHECK	-	5	7	9	11	14	16	22	32	45

TABLE IS TAKEN FROM NFPA13-19 SECTION 27.2.3.1.1.

EQUIVALENT LENGTH MODIFIER FOR NON-SCHEDULE 40 STEEL PIPE

$$\left(\frac{\text{ACTUAL INSIDE DIAMETER}}{\text{SCHEDULE 40 STEEL PIPE INSIDE DIAMETER}}\right)^{4.87} = \text{FACTOR}$$

FORMULA IS TAKEN FROM NFPA13-19 SECTION 27.2.3.1.3.1.



FIRE PROTECTION DESIGN CRITERIA
12" = 1'-0"
2 FP1.0

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FIRE PROTECTION DETAILS
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LEBANON, KENTUCKY

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BG 25-341

Project No: 25015/XMTC25
Drawn By: NRG
Rev'd By: BDH

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FIRE PROTECTION DETAILS

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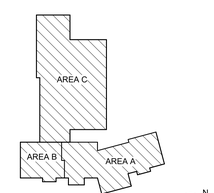
OVERALL FIRE PROTECTION DEMOLITION PLAN
1/16" = 1'-0"
1 FP2.0

TAGGED NOTES

F1 THE ENTIRE EXISTING BUILDING IS CURRENTLY PROTECTED BY A 100% WET TYPE SPRINKLER SYSTEM. THIS 100% COVERAGE WET TYPE SYSTEM SHALL REMAIN IN PLACE. CONTRACTOR SHALL ENSURE NOT TO DAMAGE EXISTING FIRE PROTECTION MAINS AND BRANCHES. REFER TO ARCHITECTURAL CEILING PLANS FOR NEW CEILING LAYOUTS AND DEMOLISH ANY SPRINKLER HEADS THAT CONFLICT WITH NEW CEILING LAYOUTS. ANY SPRINKLER HEADS THAT DO NOT CONFLICT WITH NEW CEILING LAYOUTS SHALL BE EXISTING TO REMAIN.

KEY PLAN



SCALE: NTS

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OVERALL FIRE PROTECTION DEMOLITION PLAN
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Project No:	25015/XMTC25
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OVERALL FIRE PROTECTION DEMOLITION PLAN
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#	DATE	DESCRIPTION

OVERALL FIRE PROTECTION NEW WORK PLAN
1/16" = 1'-0"
1 FP3.0

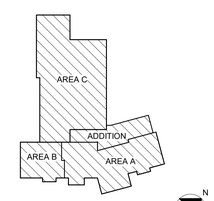
TAGGED NOTES

##

F2 EXISTING FIRE PROTECTION SYSTEM SHALL BE EXTENDED INTO THE ADDITION AREA AND REWORKED TO REACT TO NEW WALL LOCATIONS IN THIS AREA.

F3 THE ENTIRE EXISTING BUILDING IS CURRENTLY PROTECTED BY A 100% WET TYPE SPRINKLER SYSTEM. THIS 100% COVERAGE WET TYPE SYSTEM SHALL REMAIN IN PLACE. CONTRACTOR SHALL ENSURE NOT TO DAMAGE EXISTING FIRE PROTECTION MAINS AND BRANCHES. REFER TO ARCHITECTURAL CEILING PLANS FOR NEW CEILING LAYOUTS AND PROVIDE NEW SPRINKLER HEADS IN AREAS WITH NEW CEILING LAYOUTS.

KEY PLAN



SCALE: NTS

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OVERALL FIRE PROTECTION NEW WORK PLAN
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FOR:
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OVERALL FIRE PROTECTION NEW WORK PLAN
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PLUMBING GENERAL NOTES

A COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.

B THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

C WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.

D ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.

E COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.

F PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.

G OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)

H CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.

I IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB. CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.

J WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.

K ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.

L ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.

M ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.

N IN ACCORDANCE WITH K.R.S. ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KENTUCKY DIVISION OF PLUMBING AND/OR THE DIVISION OF WATER. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.

O LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.

P ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.

Q THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.).

R INSTALL ALL PIPING AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.

S SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.

T THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.

U WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.

V DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.

W ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.

X DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

Y VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.

Z ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.

AA WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.

AB THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND 2009 IECC.

AC THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND ASHRAE 90.1-2007.

AD WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

ABBREVIATIONS

AC	ALTERNATING CURRENT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE (AMP, AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APD	AIR PRESSURE DROP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
C.I.	CAST IRON
CLG	CEILING
CLR	CLEAR
CO	CARBON MONOXIDE
COND	CONDENS (-ER, -ING, -ATION, -ATE)
CONT	CONTINU (-ED, -OUS)
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CV	VALVE FLOW COEFFICIENT
dB	DECIBEL
DB	DRY BULB
DC	DIRECT CURRENT
DD	DUCT SMOKE DETECTOR
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE (-S)
DIA	DIAMETER (-S)
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVA (-TION, -TOR)
ENGR	ENGINEER
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EVAP	EVAPORAT (-E, -ING, -ED, -OR, -ION)
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTERIOR
FA	FREE AREA

ABBREVIATIONS (CONTINUED)

FL	FLOOR
FLA	FULL LOAD AMPS
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET **OR** FOOT
FUT	FUTURE
FV	FACE VELOCITY
GA	GAGE/GAUGE
GAL	GALLON (-S)
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
H	HUMIDITY
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	H (-ORSEPOWER, -EAT PUMP)
HR	HOUR (-S)
HVAC	HEATING, VENTILATING, & AIR-CONDITIONING
Hz	HERTZ
ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)
IN	INCH (-ES)
INSUL	INSULAT (-ED, -ION)
INT	INTER (-IOR, -ERVAL)
IPS	IRON PIPE SIZE
kW	KILOWATT
kWh	KILOWATT HOUR
LBS	POUNDS
LF	LINEAR FEET/FOOT
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU PER HOUR [THOUSANDS]
MCA	MINIMUM CIRCUIT AMPS
MFG	MANUFACTURER
MIN	MIN (-IMUM, -UTE)
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION [AMPS]
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA **OR** NORMALLY CLOSED
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NIC	NOT IN CONTRACT

ABBREVIATIONS (CONTINUED)

NO	NORMALLY OPEN **OR** NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DI (-AMETER, -MENSION)
OFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OR	OPEN RECEPTACLE
OZ	OUNCE (-S)
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE [ELECTRICAL]
PLBG	PLUMBING
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SQ	SQUARE
SQ FT	SQUARE FEET **OR** FOOT
SQ IN	SQUARE INCH **OR** INCHES
TAB	TESTING AND BALANCING
TBD	TO BE DETERMINED
TE	TOP ELEVATION
TEMP	TEMPERATURE
TPA	TRAP PRIMER ADAPTER
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT (-AGE, -S)
VAR	VARI (-ABLE, -IES)
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FEQUENCY DRIVE
W	WATT (-AGE, -S)
WB	WET BULB
WBT	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP
WT	WEIGHT
W/	WITH
W/O	WITHOUT
%	PERCENT
ΔP	DIFFERENTIAL PRESSURE
ΔT	TEMPERATURE DIFFERENCE
℄	CENTERLINE

GENERAL SYMBOLS

#	TAGGED NOTE DESIGNATOR
1	REVISION TRIANGLE
	ROOM TAG
TAG XXX-# INSTANCE XXXX	EQUIPMENT TAG
XXX ##	DOMESTIC WATER RISER TAG
XXX S##	SANITARY, WASTE, & VENT RISER TAG
XXX ##	FIRE SUPPRESSION RISER TAG
	POINT OF CONNECTION / CONNECT TO EXISTING
	POINT OF DEMOLITION
D(XXX)	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
E(XXX)	EXISTING PIPING - (XXX) DENOTES SYSTEM
A(XXX)	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM

VALVE SYMBOL LEGEND

	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	AUTOMATIC AIR VENT (AAV)
	MANUAL AIR VENT (MAV)
	MANUAL BALANCING VALVE (BV)
	BALL VALVE
	BUTTERFLY VALVE
	TRIPLE DUTY VALVE (TDV)
	STRAINER
	MANUAL ISOLATION VALVE
	GLOBE VALVE
	OS&Y (GATE) VALVE
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
	AUTO-FLOW CONTROL VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY

PLUMBING PIPING LEGEND

	PIPE ELBOW TURNING UP
	PIPE ELBOW TURNING DOWN
	PIPE TEE; CONNECTION ON TOP
	PIPE TEE; CONNECTION ON BOTTOM
	PIPE CAP
AVT	ACID VENT
AW	ACID WASTE
CA	COMPRESSED AIR
CAI/E	COMBUSTION AIR INTAKE/EXHAUST
CBS/R	CHILLED BEAM SUPPLY/RETURN
CD	CONDENSATE DRAIN
CO2	CARBON DIOXIDE
CST	CLEAN STEAM PIPING
DCW	DOMESTIC COLD WATER (DCW)
DHW DHW(#°F)	DOMESTIC HOT WATER (DHW)
DHR DHR(#°F)	RECIRCULATED DOMESTIC HOT WATER (DHR)
HPC	HIGH PRESSURE STEAM CONDENSATE
HPS(#)	HIGH PRESSURE STEAM; (#) DENOTES PRESSURE
HPS/R	HEAT PUMP WATER SUPPLY/RETURN
HRS/R	HEAT RECOVERY SUPPLY/RETURN PIPING
HWS/R	HEATING WATER SUPPLY/RETURN
LPC	LOW PRESSURE STEAM CONDENSATE
LPS(#)	LOW PRESSURE STEAM; (#) DENOTES PRESSURE
MPC	MEDIUM PRESSURE STEAM RETURN
MPS(#)	MEDIUM PRESSURE STEAM; (#) DENOTES PRESSURE
SPD	STEAM CONDENSATE PUMPED DISCHARGE
SVT	STEAM VENT PIPING

PLUMBING SYMBOL LEGEND

	FLEXIBLE PIPE CONNECTION
	FLOW METER (VENTURI)
	PIPING UNION
P"	FLOW SWITCH
P"	PRESSURE SWITCH
P"	TAMPER SWITCH
	THERMOMETER
T	PETE'S PLUG; TEMPERATURE/PRESSURE PORT

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	CW	HW	VENT	WASTE/DRAIN	VOLTAGE	EXTERNAL CHECK VALVE
FPWH	FREEZE-PROOF WALL HYDRANT : ZURN 1300 OR EQUIVALENT, 3/4", ENCASED, FLUSH, NON-FREEZE WALL HYDRANT WITH KEY LOCK AND COMBINATION BACKFLOW PREVENTER/VACUUM BREAKER. MOUNT HYDRANT AT A MINIMUM OF 20" ABOVE FINISHED GRADE. REFER TO MECHANICAL SPECIFICATION FOR ADDITIONAL REQUIREMENTS.	3/4"	-	-	-	No	No

PLUMBING HAZARDOUS MATERIALS...

A THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.

B CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.

C IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY.

D THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.

E THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

PLUMBING DEMOLITION NOTES

A THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELED VERIFY EXACT REQUIREMENTS.

B DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.

C ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.

D ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.

E HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (UON) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

F COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

G ALL OUTAGES SHALL BE SCHEDULED THROUGH THE UK CPMD PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.

H ALL DUCTWORK, PIPING, CONDUIT, ETC. SHALL BE INSTALLED A MINIMUM OF 4" ABOVE THE TOP OF THE CEILING GRID PER UK STANDARDS.

PLUMBING PHASING NOTES

A THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

APPLICABLE BUILDING CODES

APPLICABLE BUILDING CODES	DOCUMENT	YEAR
ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	ANSI A117.1	2009
FIRE SPRINKLER CODE	NFPA 13	2013
INTERNATIONAL BUILDING CODE (IBC)	STATE EDITION	2015
INTERNATIONAL ENERGY CONSERVATION CODE (IECC)	STATE EDITION	2012
INTERNATIONAL FIRE CODE (IFC)	STATE EDITION	2015
INTERNATIONAL FUEL GAS CODE (IFGC)	STATE EDITION	2015
INTERNATIONAL MECHANICAL CODE (IMC)	STATE EDITION	2015
INTERNATIONAL PLUMBING CODE (IPC)	STATE EDITION	2015
INTERNATIONAL EXISTING BUILDING CODE (IEBC)	STATE EDITION	2009
NATIONAL ELECTRIC CODE (NEC)	NFPA 70	2017
NATIONAL FIRE ALARM & SIGNALING CODE	NFPA 72	2013
UNIFORM STATEWIDE BUILDING CODE		2018

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NOT FOR CONSTRUCTION

PLUMBING LEGEND
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No: 25015/XMTC25
Drawn By: NRG
Rev'd By: BDH

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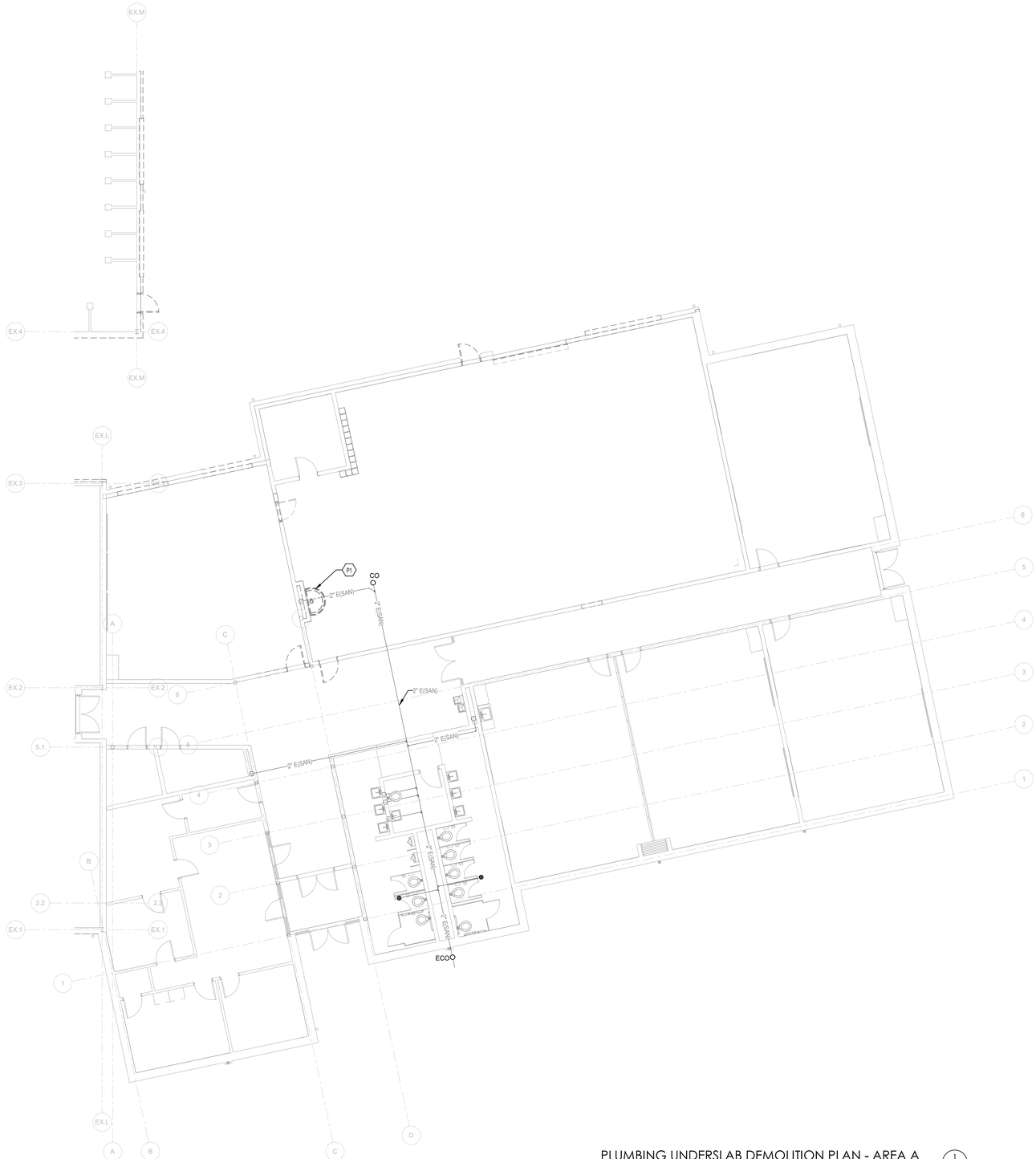
PLUMBING LEGEND

DATE ISSUED:
12/04/2025

REVISIONS

#	DATE	DESCRIPTION

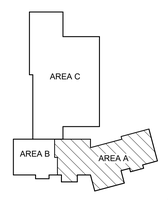


PLUMBING UNDERSLAB DEMOLITION PLAN - AREA A
1/8" = 1'-0"
1 / P1.1

TAGGED NOTES

P1 DEMOLISH EXISTING SINK IN IM LAB AND ALL ASSOCIATED MOUNTING HARDWARE AND ACCESSORIES. CAP EXISTING WATER AND WASTE PIPING AND THE WALL AND ABANDON IN PLACE.

KEY PLAN



SCALE: NTS

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PLUMBING UNDERSLAB DEMOLITION PLAN - AREA A
MARION COUNTY ATC - RENOVATION & ADDITION
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LEBANON, KENTUCKY

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Rev'd By: BDH

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PLUMBING UNDERSLAB DEMOLITION PLAN - AREA A
DATE ISSUED:
12/04/2025

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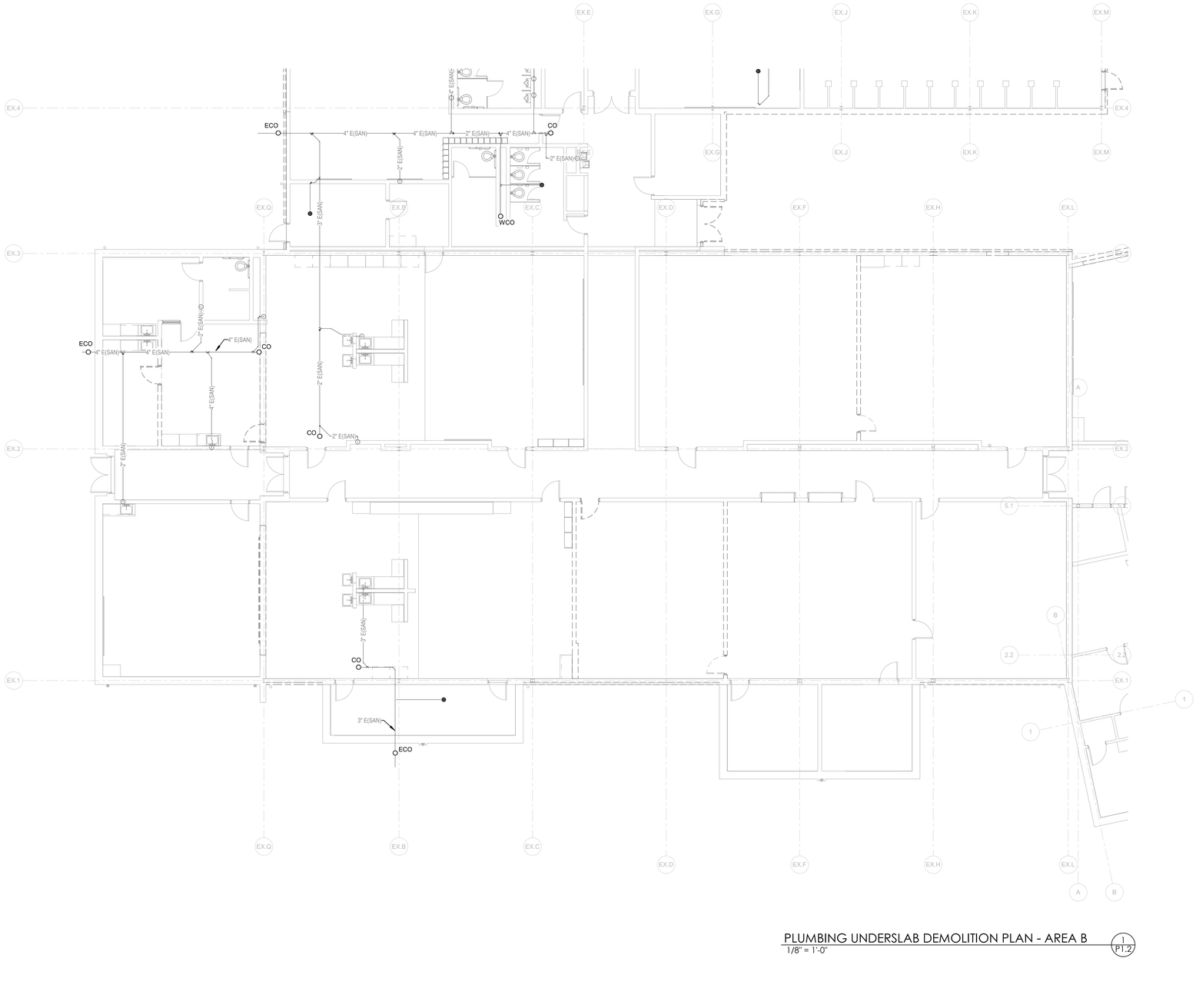
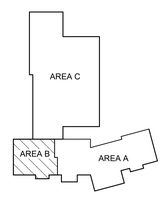
#	DATE	DESCRIPTION



PLUMBING UNDERSLAB DEMOLITION PLAN - AREA B
1/8" = 1'-0"
1 / P1.2

TAGGED NOTES

KEY PLAN



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PLUMBING UNDERSLAB DEMOLITION PLAN - AREA B
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
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PLUMBING UNDERSLAB DEMOLITION PLAN - AREA B
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12/04/2025

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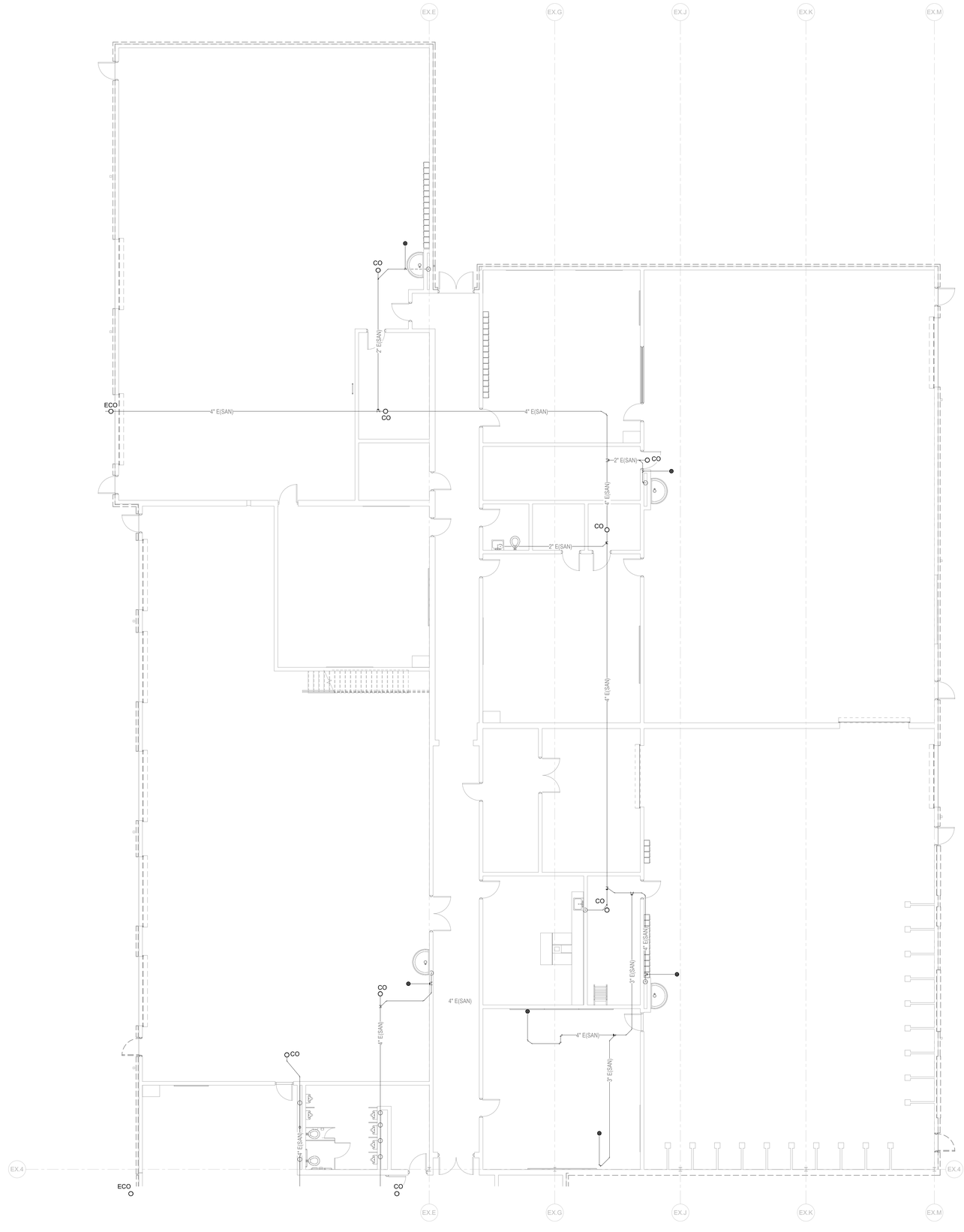
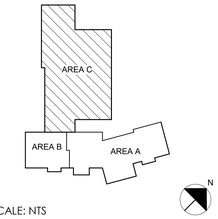
#	DATE	DESCRIPTION



PLUMBING UNDERSLAB DEMOLITION PLAN - AREA C
1/8" = 1'-0"
1 P1.3

TAGGED NOTES

KEY PLAN



SCALE: NTS

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PLUMBING UNDERSLAB DEMOLITION PLAN - AREA C
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No: 25015/XMTC25
Drawn By: NRG
Rev'd By: BDH

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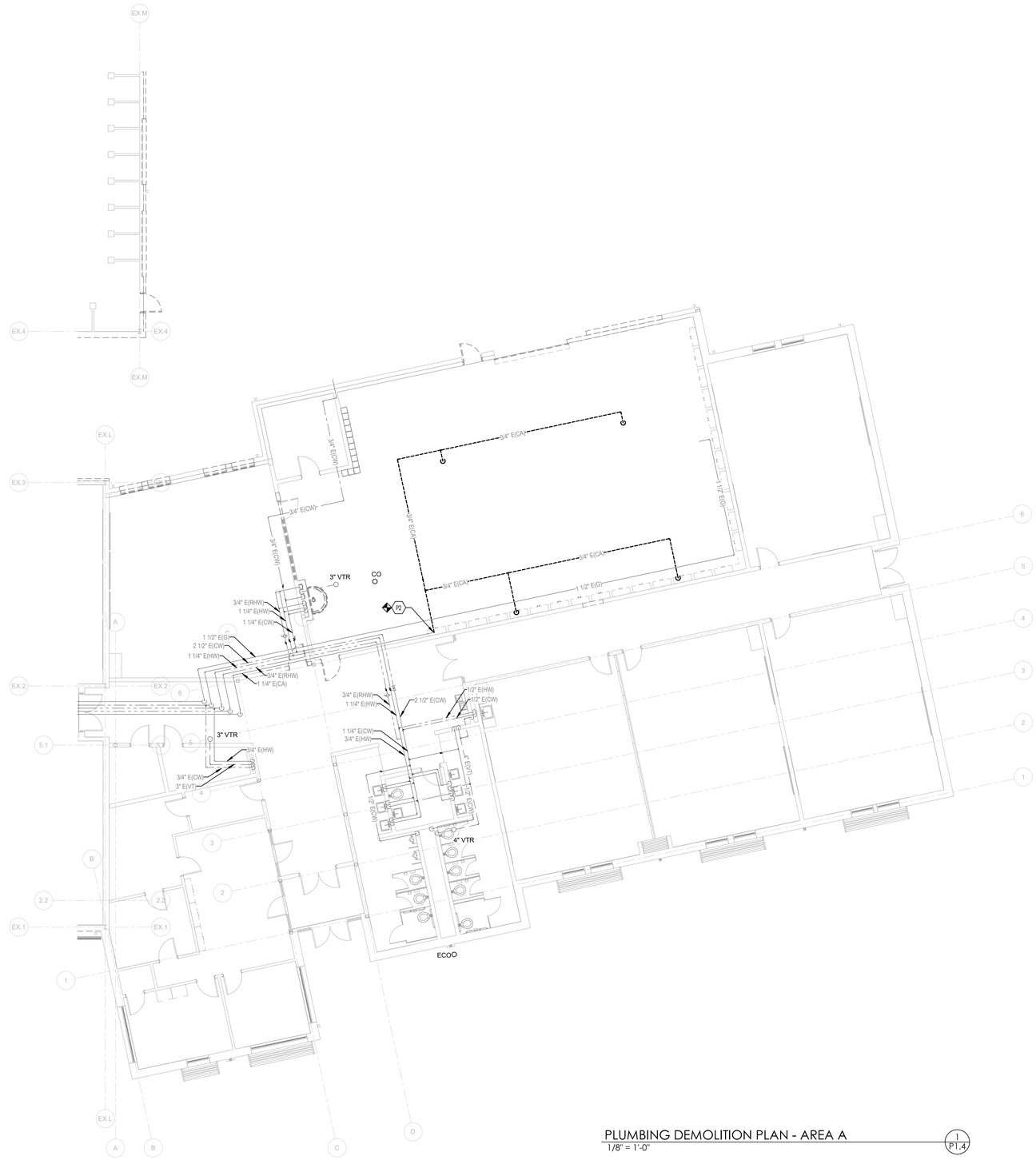
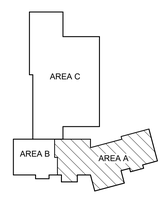


PLUMBING DEMOLITION PLAN - AREA A
1/8" = 1'-0"
1 / P1.4

TAGGED NOTES

P2 DEMOLISH EXISTING COMPRESSED AIR PIPING SERVING IM LAB AND ALL ASSOCIATED ACCESSORIES AND PIPE DROPS.

KEY PLAN



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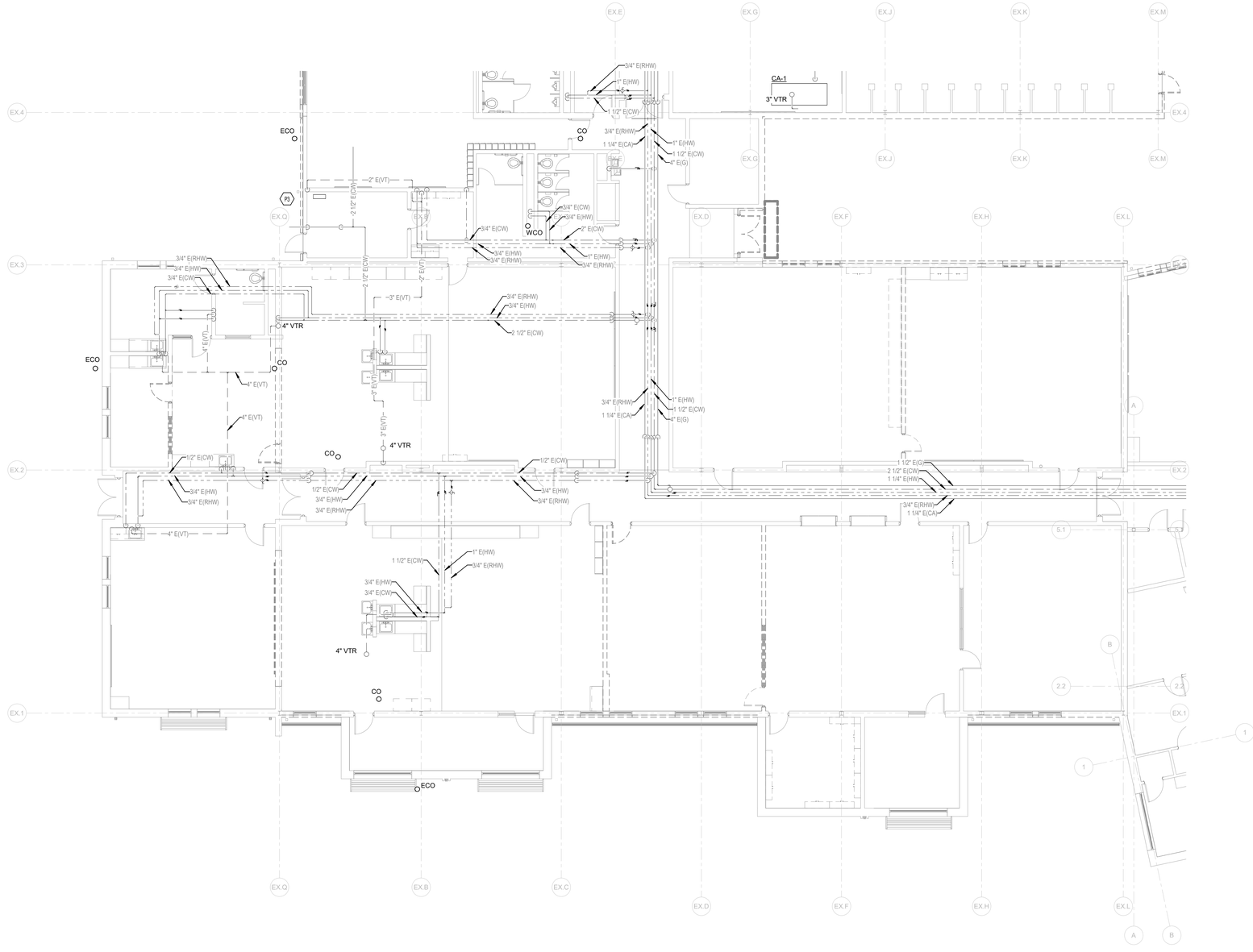
TAGGED NOTES

P3 REMOVE EXISTING GAS METER.

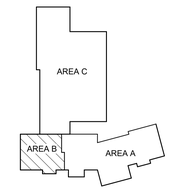


PLUMBING DEMOLITION PLAN - AREA B

1/8" = 1'-0"

1 / P1.5

KEY PLAN



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PLUMBING DEMOLITION PLAN - AREA B

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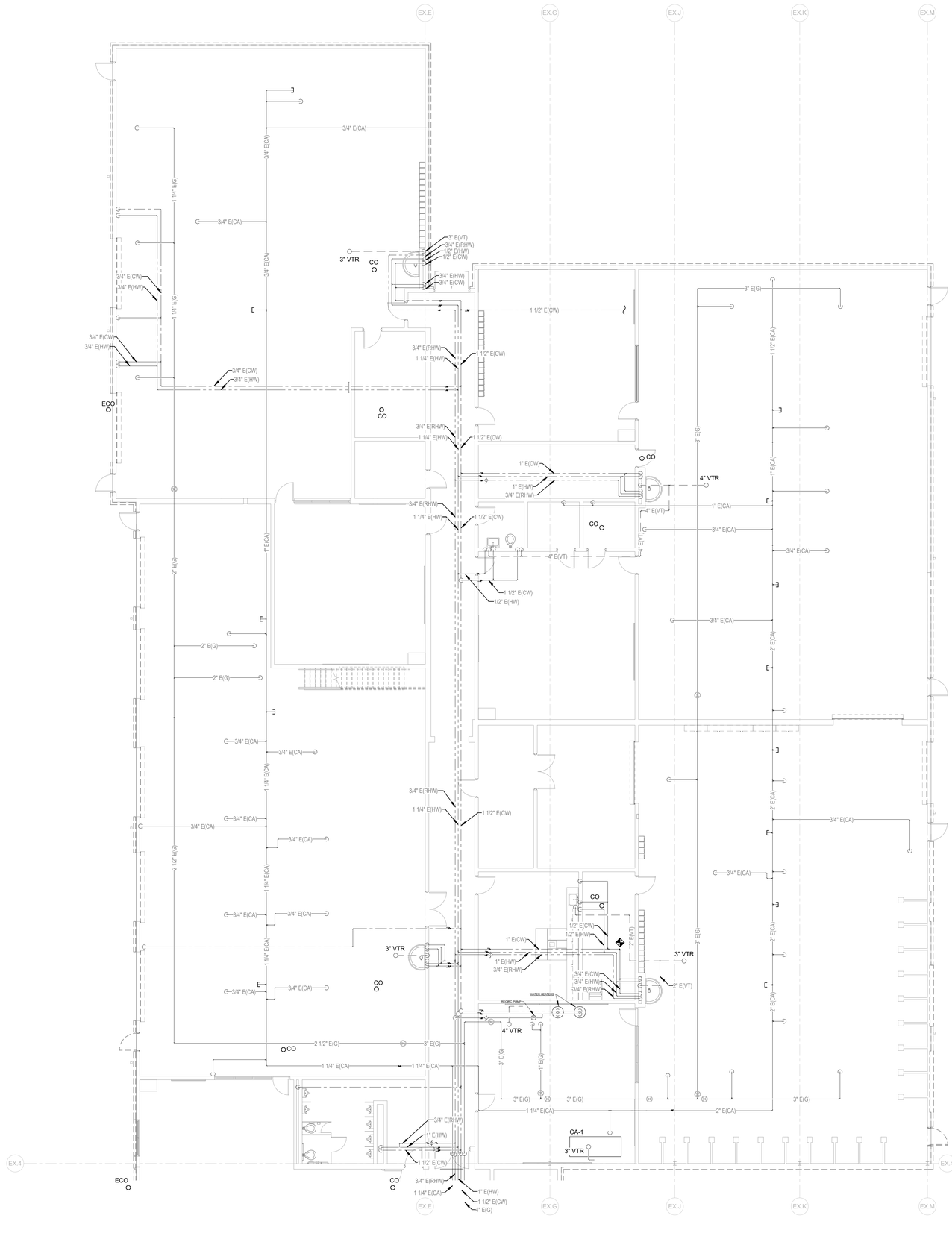

PLUMBING DEMOLITION PLAN - AREA C
1/8" = 1'-0"

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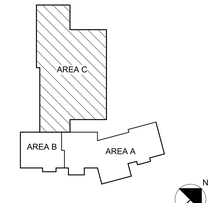
P1.6

TAGGED NOTES

KEY PLAN



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

1
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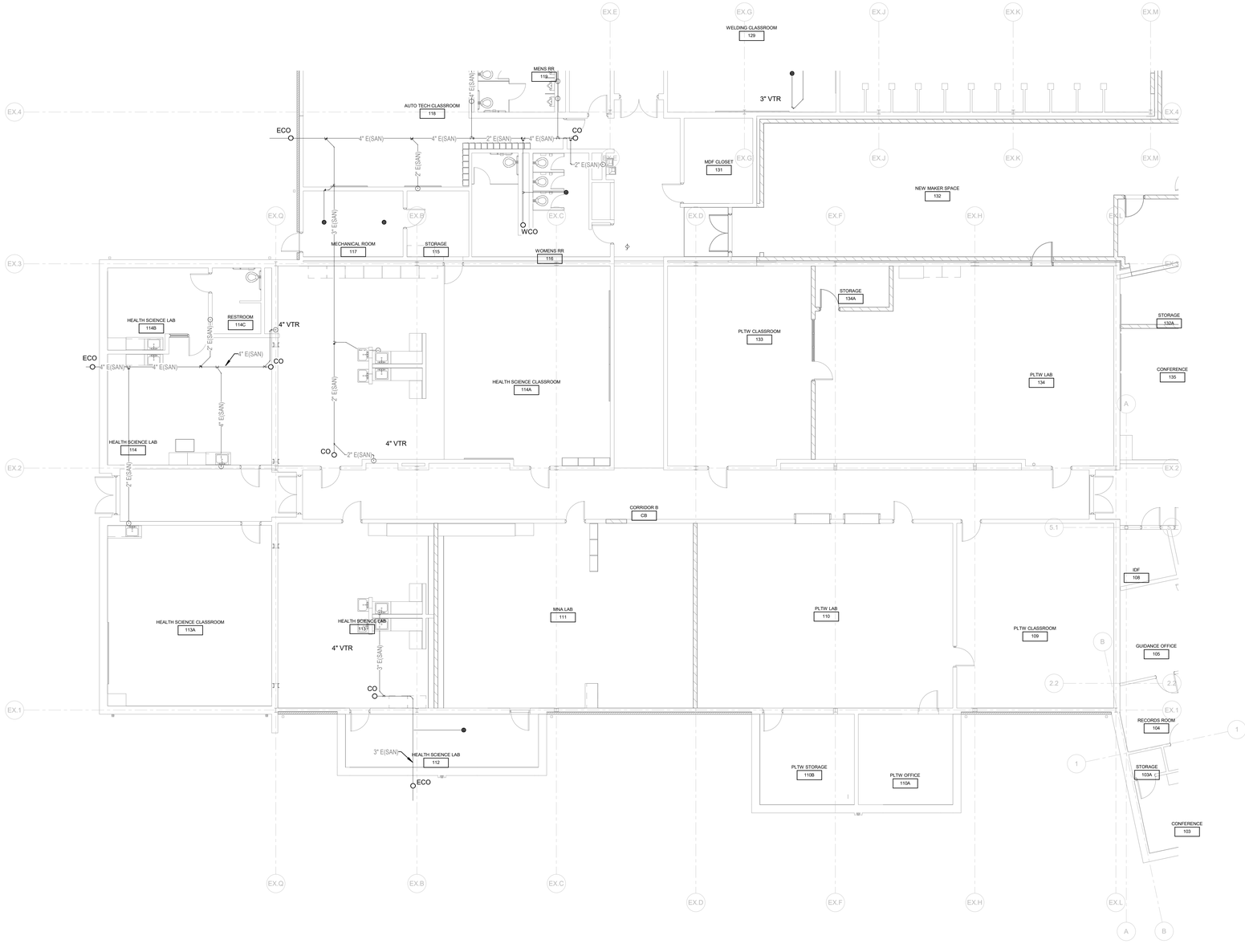

PLUMBING UNDERSLAB PLAN - AREA B
1/8" = 1'-0"
1 P2.2

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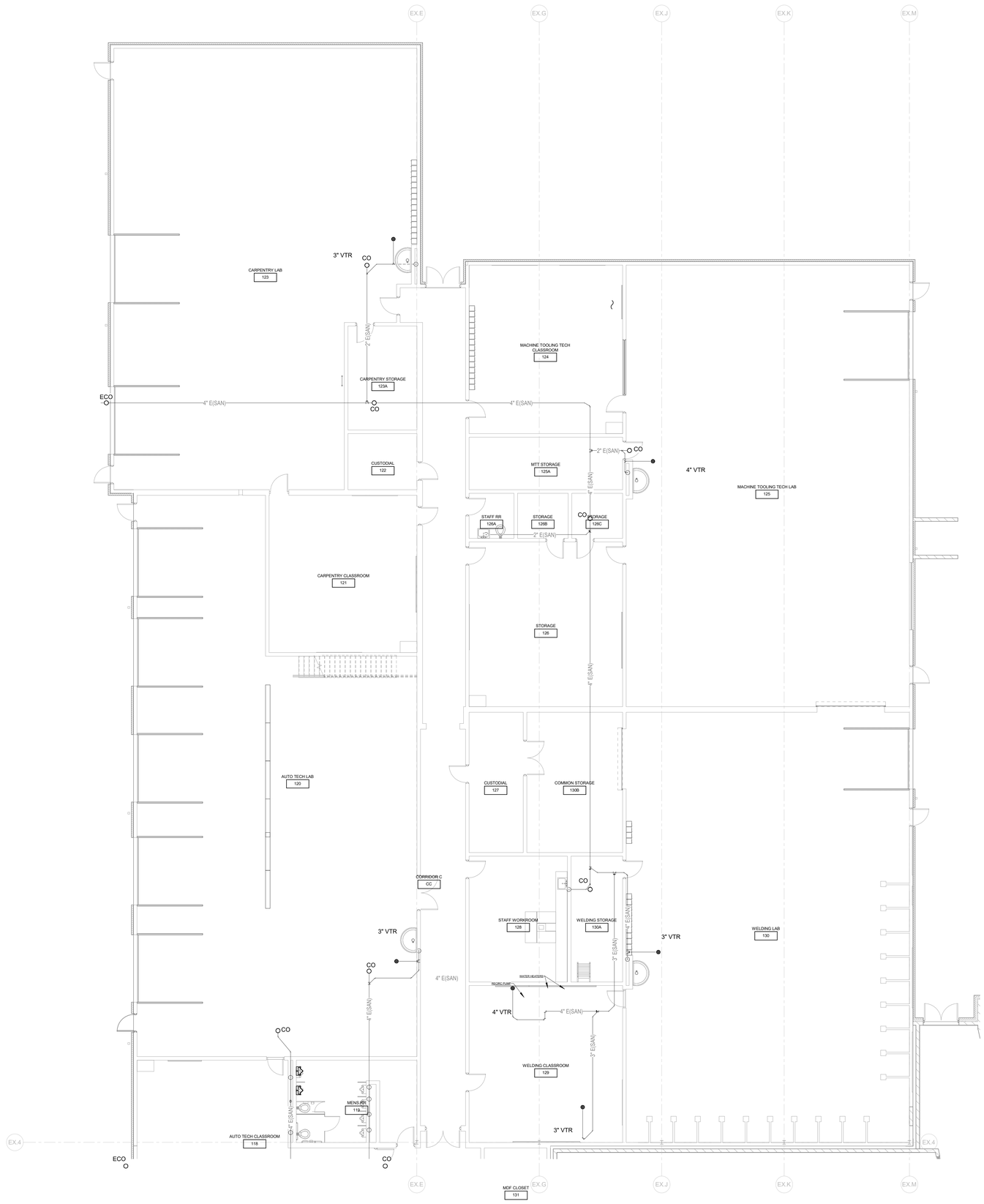

PLUMBING UNDERSLAB PLAN - AREA C
1/8" = 1'-0"
1 / P2.3

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

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TAGGED NOTES

P4 PROVIDE NEW COMPRESSED AIR DROPS IN IM LAB TO ACCOMMODATE NEW LAYOUT.

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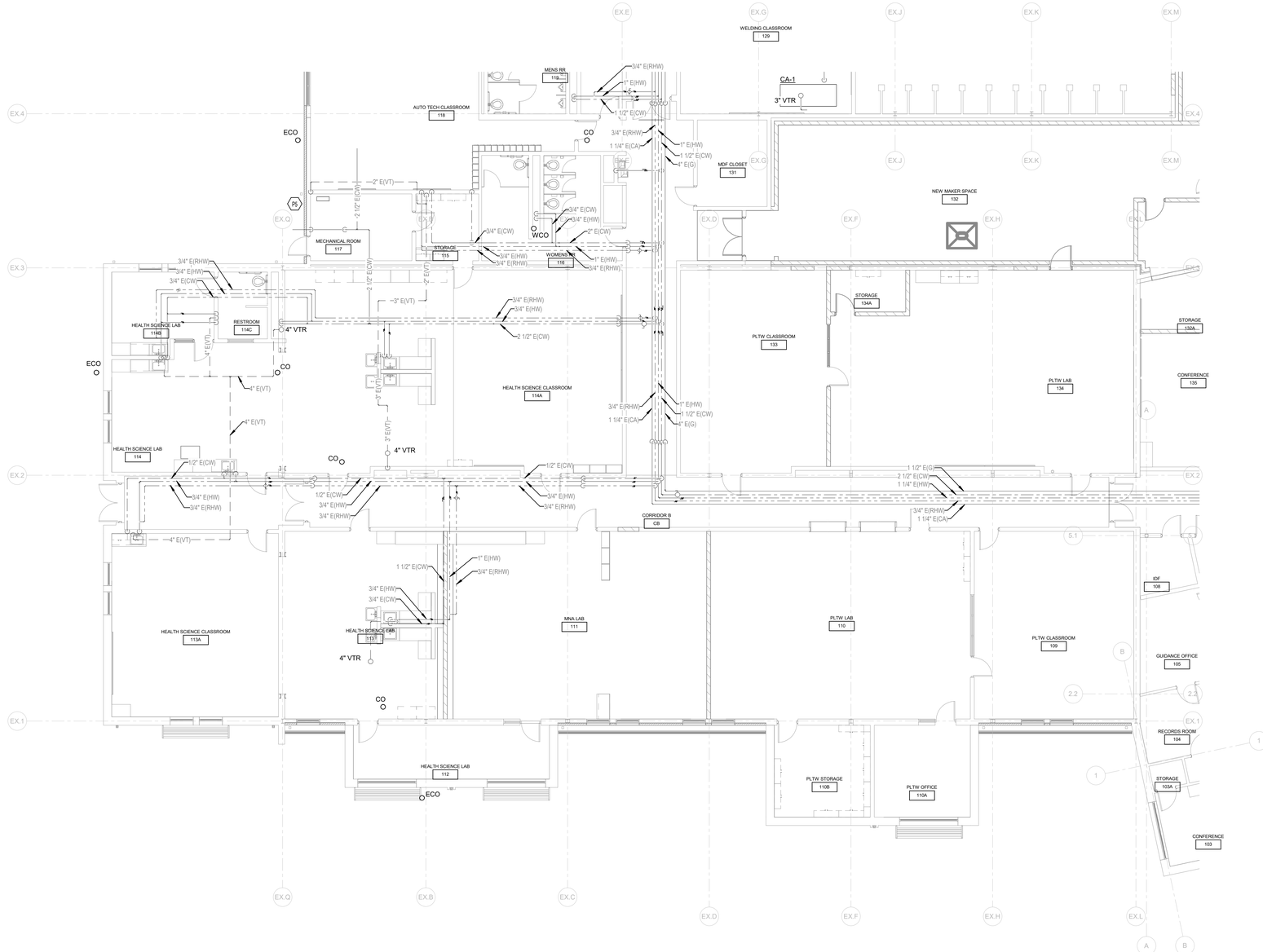

PLUMBING PLAN - AREA B
1/8" = 1'-0"

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TAGGED NOTES

P5 PROVIDE NEW GAS METER.

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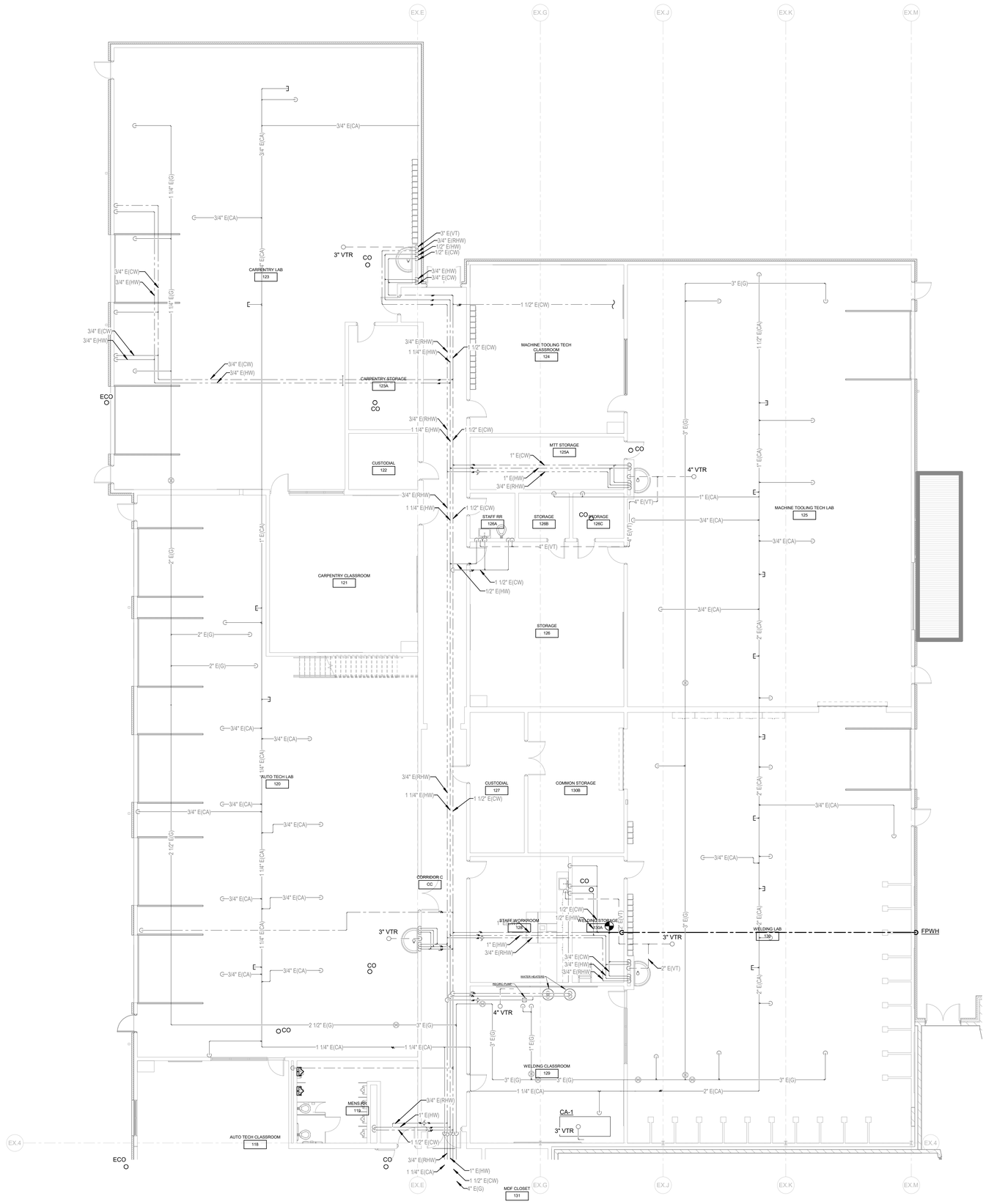

PLUMBING PLAN - AREA C
1/8" = 1'-0"
1 / P2.6

TAGGED NOTES

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PLUMBING PLAN - AREA C

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MECHANICAL GENERAL NOTES

A COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC.; PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.

B THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

C WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.

D ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.

E COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.

F PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.

G OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)

H CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.

I IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB. CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.

J WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.

K ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.

L ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.

M ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.

N INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS.

O LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.

P ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.

Q COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.

R INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.

S SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.

T SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL, IRONGRIP 601 OR EQUAL WATER BASED SEALANT.

U ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.

V THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.

W WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.

X DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.

Y ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.

Z DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

AA VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.

AB ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.

AC PIPING SHALL NOT BE LOCATED UNDER A FOOTER OR IN THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.

AD THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND 2009 IECC.

AE THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND ASHRAE 90.1-2007.

AF WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

ABBREVIATIONS

AC	ALTERNATING CURRENT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE (AMP, AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APD	AIR PRESSURE DROP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS
ATU	AIR TERMINAL UNIT
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
C.I.	CAST IRON
CLG	CEILING
CLR	CLEAR
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COND	CONDENS (-ER, -ING, -ATION, -ATE)
CONT	CONTINU (-ED, -OUS)
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CV	VALVE FLOW COEFFICIENT
dB	DECIBEL
DB	DRY BULB
DBT	DRY BULB TEMPERATURE
DC	DIRECT CURRENT
DD	DUCT SMOKE DETECTOR
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE (-S)
DIA	DIAMETER (-S)
DN	DOWN
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVA (-TION, -TOR)
ENGR	ENGINEER
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EVAP	EVAPORAT (-E, -ING, -ED, -OR, -ION)
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTERIOR
FA	FREE AREA

ABBREVIATIONS (CONTINUED)

FD	FIRE DAMPER
FL	FLOOR
FLA	FULL LOAD AMPS
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET **OR** FOOT
FUT	FUTURE
FV	FACE VELOCITY
GA	GAGE/GAUGE
GAL	GALLON (-S)
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
H	HUMIDITY
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	H (-ORSEPOWER, -EAT PUMP)
HR	HOUR (-S)
HVAC	HEATING, VENTILATING, & AIR-CONDITIONING
Hz	HERTZ
ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)
IN	INCH (-ES)
INSUL	INSULAT (-ED, -ION)
INT	INTER (-IOR, -ERVAL)
IPS	IRON PIPE SIZE
kW	KILOWATT
kWh	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET/FOOT
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU PER HOUR [THOUSANDS]
MCA	MINIMUM CIRCUIT AMPS
MFG	MANUFACTURER
MIN	MIN (-IMUM, -UTE)
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION [AMPS]
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA **OR** NORMALLY CLOSED
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NIC	NOT IN CONTRACT

ABBREVIATIONS (CONTINUED)

NO	NORMALLY OPEN **OR** NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DI (-AMETER, -MENSION)
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OR	OPEN RECEPTACLE
OZ	OUNCE (-S)
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE [ELECTRICAL]
PLBG	PLUMBING
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PPSI GAUGE
RH	RELATIVE HUMIDITY [%]
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SQ	SQUARE
SQ FT	SQUARE FEET **OR** FOOT
SQ IN	SQUARE INCH **OR** INCHES
TAB	TESTING AND BALANCING
TBD	TO BE DETERMINED
TE	TOP ELEVATION
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT (-AGE, -S)
VAR	VARI (-ABLE, -IES)
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FEQUENCY DRIVE
W	WATT (-AGE, -S)
WB	WET BULB
WBT	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP
WT	WEIGHT
W/	WITH
W/O	WITHOUT
%	PERCENT
ΔP	DIFFERENTIAL PRESSURE
ΔT	TEMPERATURE DIFFERENCE
℄	CENTERLINE

GENERAL SYMBOLS

(#)	TAGGED NOTE DESIGNATOR
	REVISION TRIANGLE
ROOM NAME (SEE 2)	ROOM TAG
TAG XXX-# INSTANCE XXXX	EQUIPMENT TAG
	POINT OF CONNECTION / CONNECT TO EXISTING
	POINT OF DEMOLITION

HVAC LEGEND

	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	EXHAUST AIR DIFFUSER
	TRANSFER AIR DIFFUSER W/ SOUND ATTENUATING BOOT
	SIDEWALL DIFFUSER/GRILLE
	SIDEWALL DIFFUSER/GRILLE
TAG (XXX) AIRFLOW #,###	AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER,LOUVER)
##x##	RECTANGULAR DUCT
#ø	ROUND/SPIRAL DUCT
##/##	FLAT OVAL DUCT
SA	SUPPLY AIR DUCT
RA	RETURN AIR DUCT
EA	EXHAUST AIR DUCT
OA	OUTSIDE AIR DUCT
TA	TRANSFER AIR DUCT
CAE	COMBUSTION AIR EXHAUST DUCT
CAI	COMBUSTION AIR INTAKE DUCT
SA	SA AIR DUCT TURNING UP
SA	SA AIR DUCT TURNING DOWN
RA	RA AIR DUCT TURNING UP
RA	RA AIR DUCT TURNING DOWN
EA	EA AIR DUCT TURNING UP
EA	EA AIR DUCT TURNING DOWN
E(XXX)	EXISTING DUCT - (XXX) DENOTES SYSTEM
D(XXX)	DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
A(XXX)	DUCT TO BE ABANDONED IN PLACE - (XXX) DENOTES SYSTEM
	MITERED ELBOW WITH TURNING VANES
	FLEXIBLE DUCT
T	THERMOSTAT
T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
C	CARBON DIOXIDE SENSOR
T/C	TEMPERATURE & CARBON DIOXIDE SENSOR
VERT. HORIZ.	MANUAL BALANCING/VOLUME DAMPER
VERT. HORIZ.	MOTORIZED DAMPER
VERT. HORIZ.	FIRE DAMPER
VERT. HORIZ.	SMOKE DAMPER
VERT. HORIZ.	COMBINATION FIRE & SMOKE DAMPER

MECHANICAL PIPING LEGEND

	PIPE ELBOW TURNING UP
	PIPE ELBOW TURNING DOWN
	PIPE TEE; CONNECTION ON TOP
	PIPE TEE; CONNECTION ON BOTTOM
	PIPE CAP
BFW	BOILER FEEDWATER
CAI/E	COMBUSTION AIR INTAKE/EXHAUST
CBS/R	CHILLED BEAM SUPPLY/RETURN
CD	CONDENSATE DRAIN
CHWS/R	CHILLED WATER SUPPLY/RETURN
CST	CLEAN STEAM PIPING
CWS/R	CONDENSER WATER SUPPLY/RETURN
DTS/R	DUAL TEMP. WATER SUPPLY/RETURN
GS/R	GEOTHERMAL WATER SUPPLY/RETURN
HPC	HIGH PRESSURE STEAM CONDENSATE
HPS(#)	HIGH PRESSURE STEAM; (#) DENOTES PRESSURE
HPS/R	HEAT PUMP WATER SUPPLY/RETURN
HRS/R	HEAT RECOVERY SUPPLY/RETURN PIPING
HWS/R	HEATING WATER SUPPLY/RETURN
LPC	LOW PRESSURE STEAM CONDENSATE
LPS(#)	LOW PRESSURE STEAM; (#) DENOTES PRESSURE
MPC	MEDIUM PRESSURE STEAM RETURN
MPS(#)	MEDIUM PRESSURE STEAM; (#) DENOTES PRESSURE
SPD	STEAM CONDENSATE PUMPED DISCHARGE
SVT	STEAM VENT PIPING
D(XXX)	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
E(XXX)	EXISTING PIPING - (XXX) DENOTES SYSTEM
A(XXX)	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	AUTOMATIC AIR VENT (AAV)
	MANUAL AIR VENT (MAV)
	MANUAL BALANCING VALVE (BV)
	BALL VALVE
	BUTTERFLY VALVE
	TRIPLE DUTY VALVE (TDV)
	STRAINER
	MANUAL ISOLATION VALVE
	GLOBE VALVE
	OS&Y (GATE) VALVE
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
	AUTO-FLOW CONTROL VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY
	FLEXIBLE PIPE CONNECTION
	FLOW METER (VENTURI)
	PIPING UNION
FS	FLOW SWITCH
PS	PRESSURE SWITCH
TS	TAMPER SWITCH
	THERMOMETER
	PETE'S PLUG; TEMPERATURE/PRESSURE PORT

MECHANICAL DEMOLITION NOTES

A THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELED VERIFY EXACT REQUIREMENTS.

B DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.

C ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.

D ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.

E HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (UON) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

F COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

G ALL OUTAGES SHALL BE SCHEDULED THROUGH THE UK CPMD PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.

H ALL DUCTWORK, PIPING, CONDUIT, ETC. SHALL BE INSTALLED A MINIMUM OF 4" ABOVE THE TOP OF THE CEILING GRID PER UK STANDARDS.

MECHANICAL PHASING NOTES

A THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

MECHANICAL HAZARDOUS MATERIALS NOTES

A THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.

B CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.

C IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY.

D THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.

E THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

APPLICABLE BUILDING CODES

APPLICABLE BUILDING CODES	DOCUMENT	YEAR
ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	ANSI A117.1	2009
FIRE SPRINKLER CODE	NFPA 13	2013
INTERNATIONAL BUILDING CODE (IBC)	STATE EDITION	2015
INTERNATIONAL ENERGY CONSERVATION CODE (IECC)	STATE EDITION	2012
INTERNATIONAL FIRE CODE (IFC)	STATE EDITION	2015
INTERNATIONAL FUEL GAS CODE (IFGC)	STATE EDITION	2015
INTERNATIONAL MECHANICAL CODE (IMC)	STATE EDITION	2015
INTERNATIONAL PLUMBING CODE (IPC)	STATE EDITION	2015
INTERNATIONAL EXISTING BUILDING CODE (IEBC)	STATE EDITION	2009
NATIONAL ELECTRIC CODE (NEC)	NFPA 70	2017
NATIONAL FIRE ALARM & SIGNALING CODE	NFPA 72	2013
UNIFORM STATEWIDE BUILDING CODE		2018

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT

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MECHANICAL LEGEND
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No: 25015/XMTC25
Drawn By: NRG
Rev'd By: BDH

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MECHANICAL LEGEND

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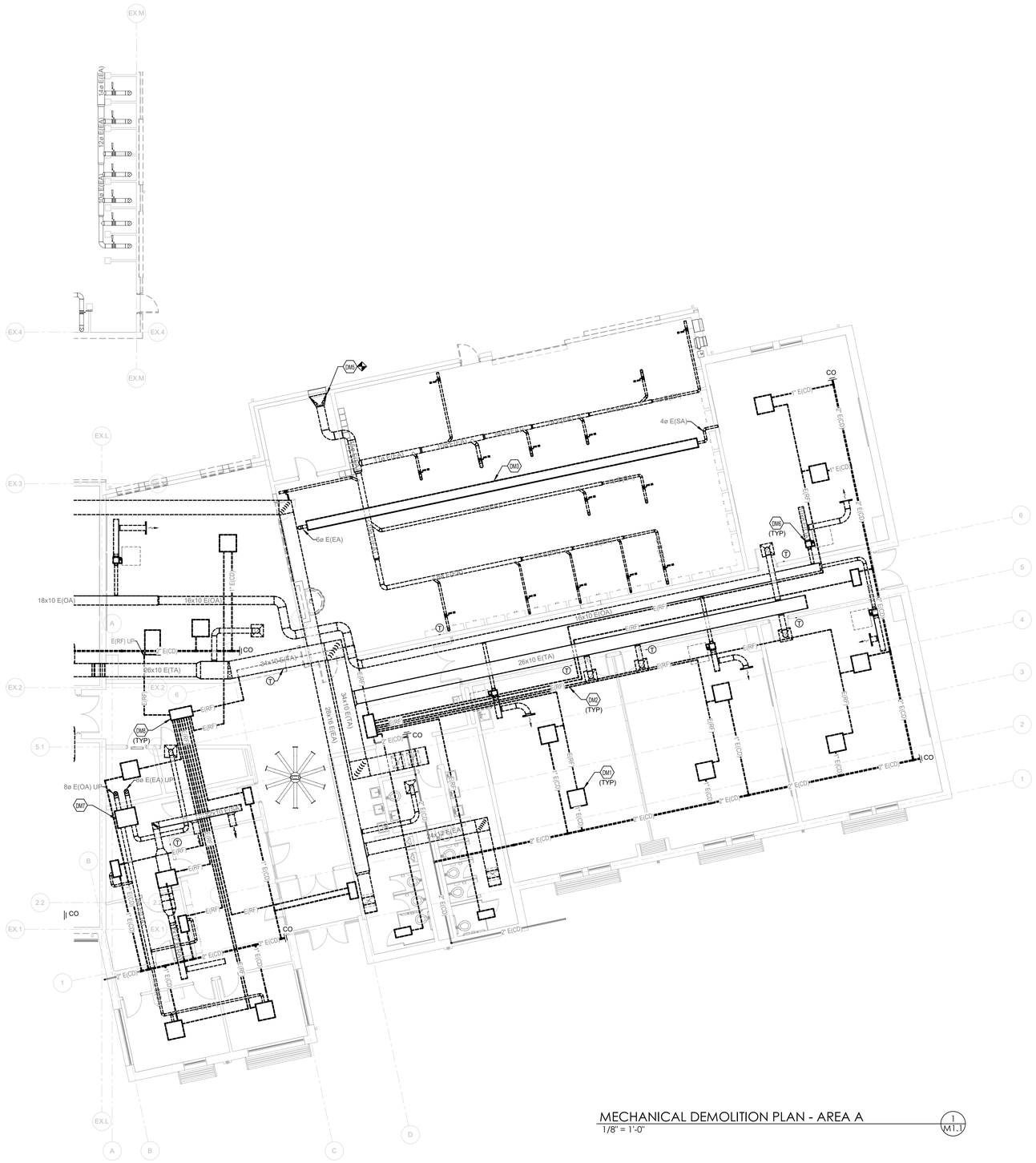


MECHANICAL DEMOLITION PLAN - AREA A
1/8" = 1'-0"

1 M1.1

TAGGED NOTES

DM1 DEMOLISH EXISTING VRF CASSETTE. REFER TO THE SPECIFICATIONS FOR INFORMATION REGARDING PROPER REFRIGERANT RECOVERY.

DM2 DEMOLISH EXISTING REFRIGERANT PIPING. REFER TO THE SPECIFICATIONS FOR INFORMATION REGARDING PROPER REFRIGERANT RECOVERY.

DM3 DEMOLUSH EXISTING GAS FIRED RADIANT HEATER.

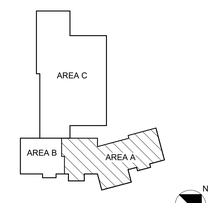
DM5 DEMOLISH EXISTING DUST COLLECTION DUCTWORK THAT IS NO LONGER IN USE. REMOVE DUCTWORK UP TO THE EXISTING LOUVER AND BLANK OFF THE LOUVER.

DM6 DEMOLISH EXISTING VAV BOX AND ASSOCIATED DUCTWORK, CONTROLS AND DIFFUSER.

DM7 DEMOLISH EXISTING ENERGY RECOVERY VENTILATOR AND ALL ASSOCIATED CONTROL WIRING, DUCTWORK AND SUPPORTS. SEAL ROOF PENETRATIONS AIR AND WATER TIGHT.

DM8 DEMOLISH EXISTING VRF BRANCH CONTROL BOX AND ALL ASSOCIATED PIPING, ELECTRICAL, CONTROLS, ETC. REFER TO THE SPECIFICATIONS FOR INFORMATION REGARDING PROPER REFRIGERANT RECOVERY.

KEY PLAN



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FOR:
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LEBANON, KENTUCKY

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Structural Engineer:
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BG 25-341

Project No: 25015/XMTC25
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Rev'd By: BDH

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MECHANICAL DEMOLITION PLAN - AREA A
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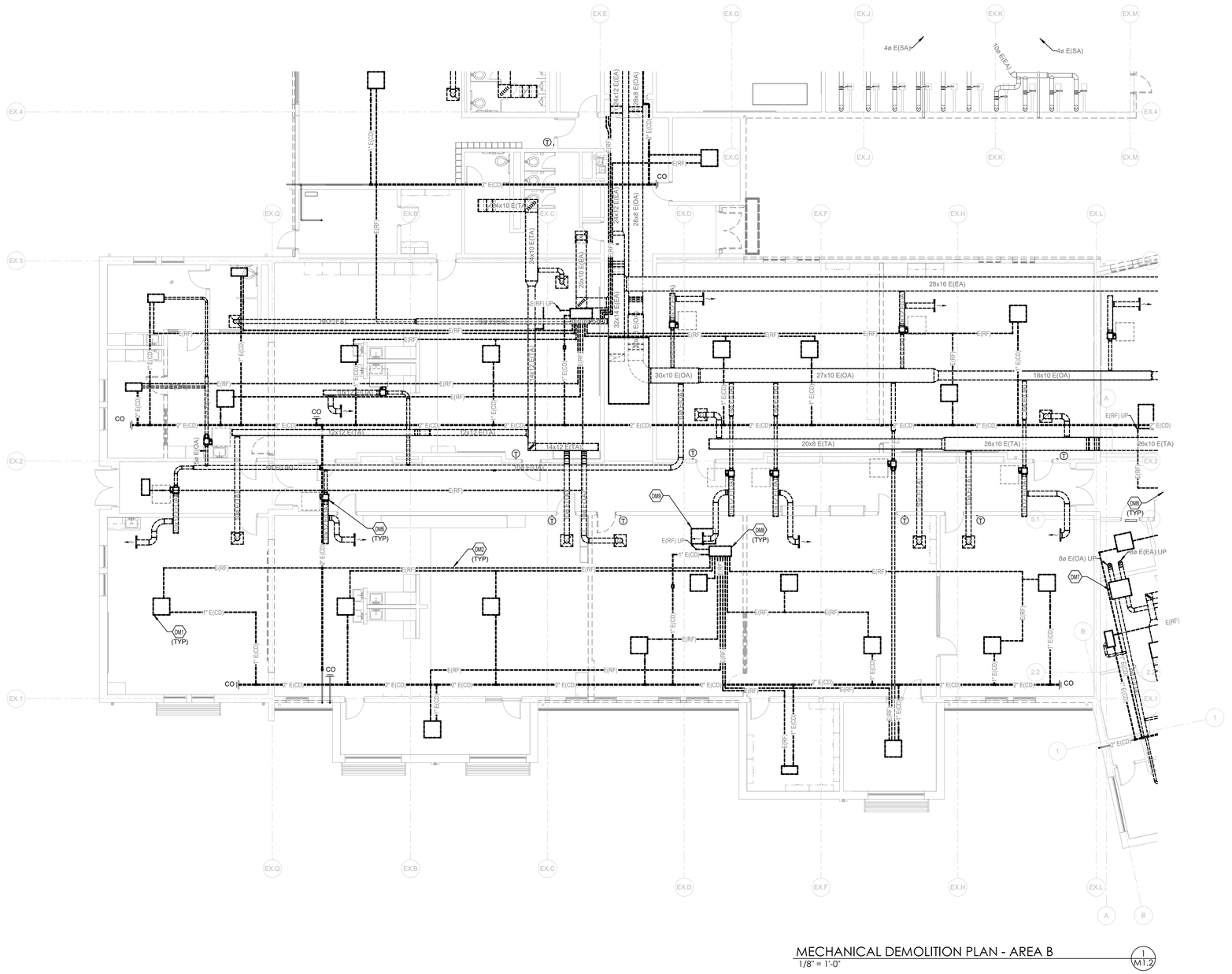


MECHANICAL DEMOLITION PLAN - AREA B

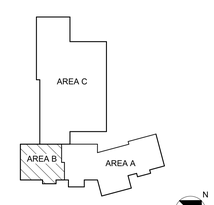
1/8" = 1'-0"

1 / M1.2

TAGGED NOTES

DM1	DEMOLISH EXISTING VRF CASSETTE. REFER TO THE SPECIFICATIONS FOR INFORMATION REGARDING PROPER REFRIGERANT RECOVERY.
DM2	DEMOLISH EXISTING REFRIGERANT PIPING. REFER TO THE SPECIFICATIONS FOR INFORMATION REGARDING PROPER REFRIGERANT RECOVERY.
DM6	DEMOLISH EXISTING VAV BOX AND ASSOCIATED DUCTWORK, CONTROLS AND DIFFUSER.
DM7	DEMOLISH EXISTING ENERGY RECOVERY VENTILATOR AND ALL ASSOCIATED CONTROL WIRING, DUCTWORK AND SUPPORTS. SEAL ROOF PENETRATIONS AIR AND WATER TIGHT.
DM8	DEMOLISH EXISTING VRF BRANCH CONTROL BOX AND ALL ASSOCIATED PIPING, ELECTRICAL, CONTROLS, ETC. REFER TO THE SPECIFICATIONS FOR INFORMATION REGARDING PROPER REFRIGERANT RECOVERY.
DM9	DEMOLISH EXISTING VRF HEAT PUMP AND ALL ASSOCIATED PIPING, ELECTRICAL, CONTROLS, ETC. REFER TO THE SPECIFICATIONS FOR INFORMATION REGARDING PROPER REFRIGERANT RECOVERY. SEAL ANY EXTERIOR PENETRATIONS AIR AND WATER TIGHT.

KEY PLAN



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MECHANICAL DEMOLITION PLAN - AREA B

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:

MARION COUNTY BOARD OF EDUCATION

LEBANON, KENTUCKY

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BG 25-341

Project No:	25015/XMTC25
Drawn By:	NRG
Rev'd By:	BDH

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MECHANICAL DEMOLITION PLAN - AREA B

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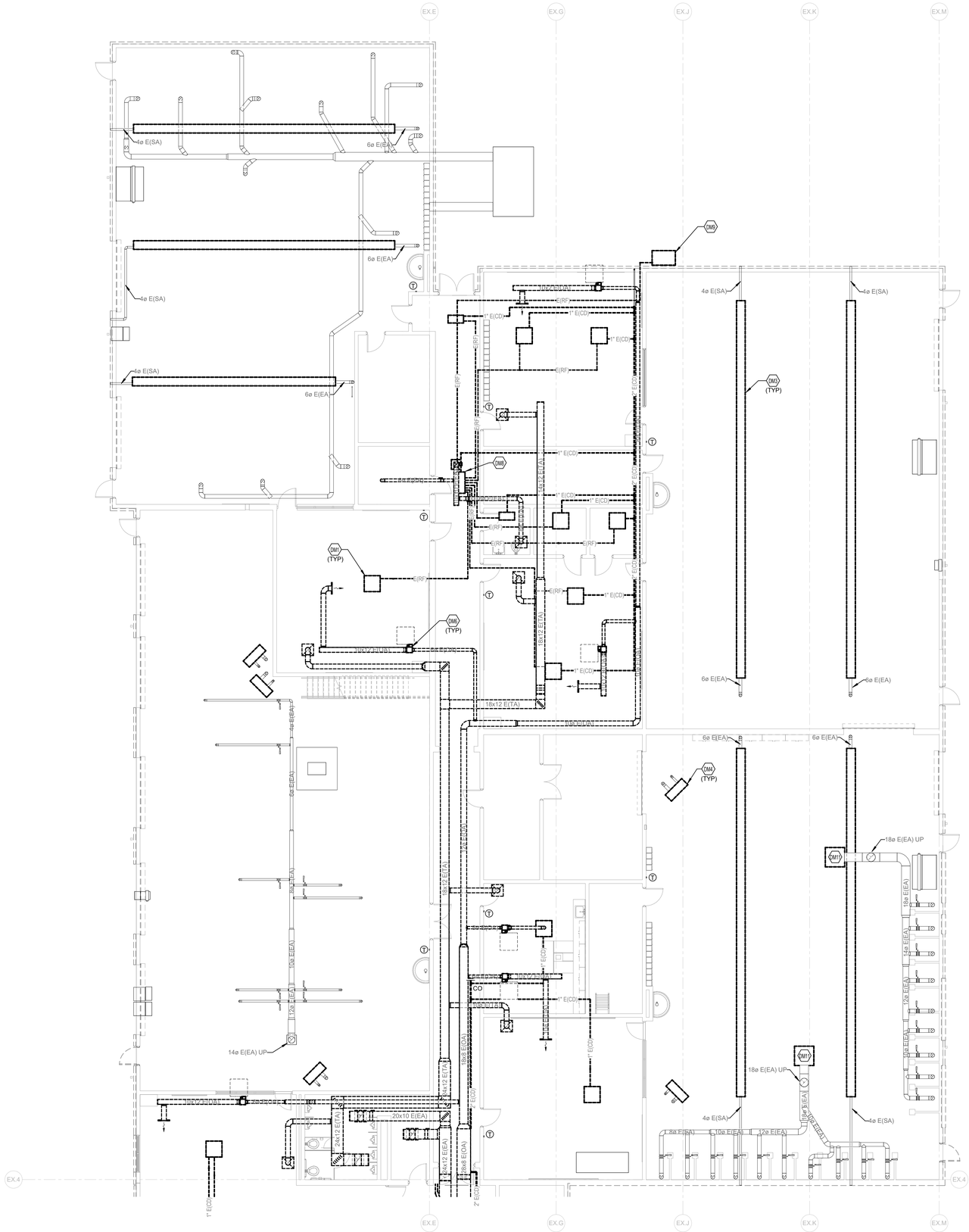


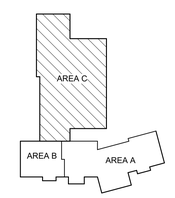
MECHANICAL DEMOLITION PLAN - AREA C
1/8" = 1'-0"

1 M1.3

TAGGED NOTES

DM1	DEMOLISH EXISTING VRF CASSETTE. REFER TO THE SPECIFICATIONS FOR INFORMATION REGARDING PROPER REFRIGERANT RECOVERY.
DM3	DEMOLUSH EXISTING GAS FIRED RADIANT HEATER.
DM4	DEMOLISH EXISTING GAS FIRED UNIT HEATER.
DM6	DEMOLISH EXISTING VAV BOX AND ASSOCIATED DUCTWORK, CONTROLS AND DIFFUSER.
DM8	DEMOLISH EXISTING VRF BRANCH CONTROL BOX AND ALL ASSOCIATED PIPING, ELECTRICAL, CONTROLS, ETC. REFER TO THE SPECIFICATIONS FOR INFORMATION REGARDING PROPER REFRIGERANT RECOVERY.
DM9	DEMOLISH EXISTING VRF HEAT PUMP AND ALL ASSOCIATED PIPING, ELECTRICAL, CONTROLS, ETC. REFER TO THE SPECIFICATIONS FOR INFORMATION REGARDING PROPER REFRIGERANT RECOVERY. SEAL ANY EXTERIOR PENETRATIONS AIR AND WATER TIGHT.
DM11	REMOLISH EXISTING ROOF MOUNTED WELDING EXHAUST FAN.

KEY PLAN



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MECHANICAL DEMOLITION PLAN - AREA C
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
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LEBANON, KENTUCKY

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Project No:	25015/XMTC25
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MECHANICAL DEMOLITION PLAN - AREA C
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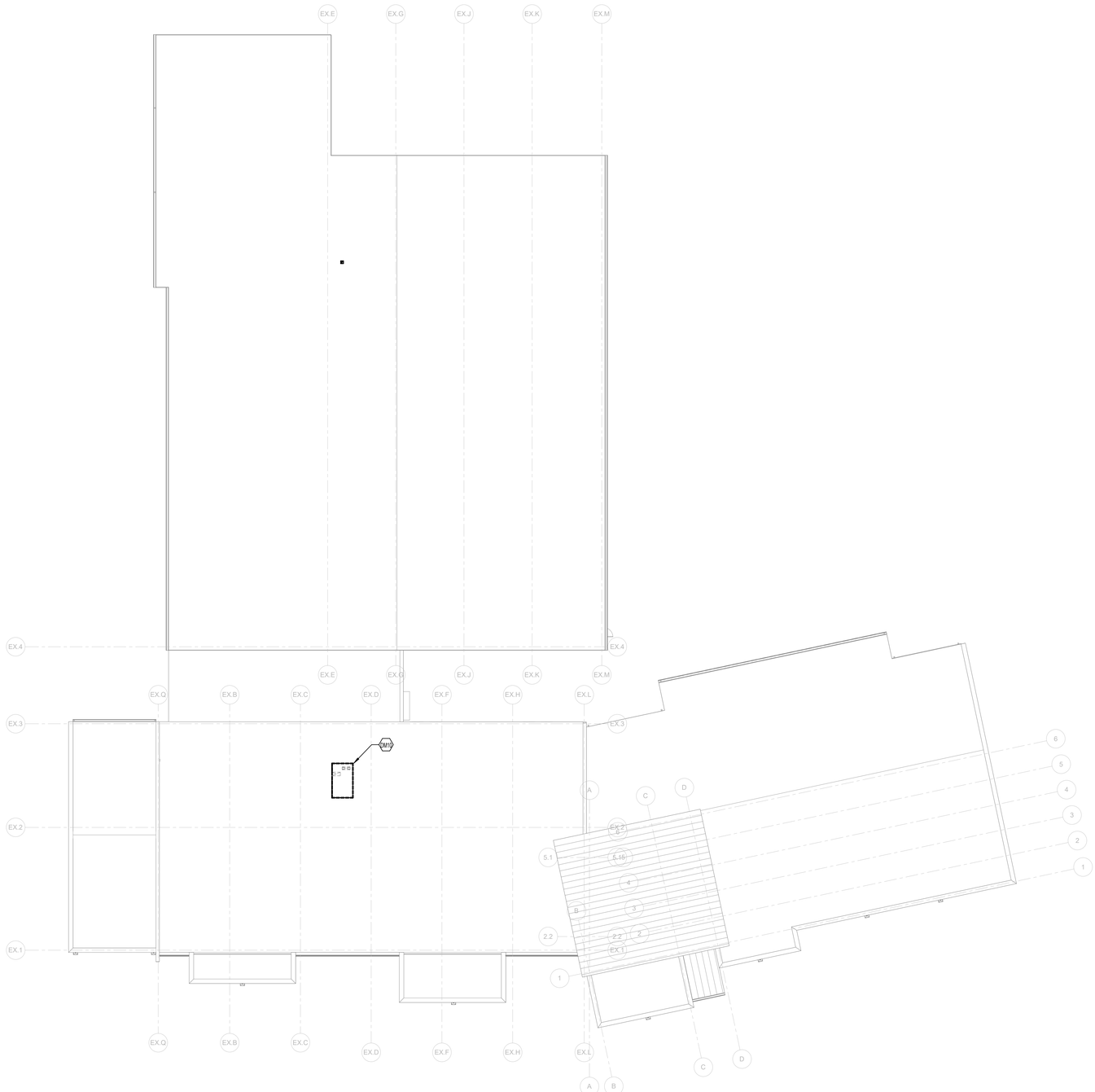
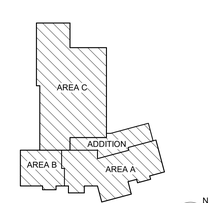


MECHANICAL DEMOLITION PLAN - ROOF
1/16" = 1'-0"
1 / M1.4

TAGGED NOTES

DM10 DEMOLISH EXISTING ENERGY RECOVERY VENTILATOR AND ALL ASSOCIATED CONTROL WIRING, ELECTRICAL, AND DUCTWORK. EXISTING ROOF CURB SHALL REMAIN.

KEY PLAN



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MECHANICAL DEMOLITION PLAN - ROOF
MARION COUNTY ATC - RENOVATION & ADDITION
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MECHANICAL DEMOLITION PLAN - ROOF
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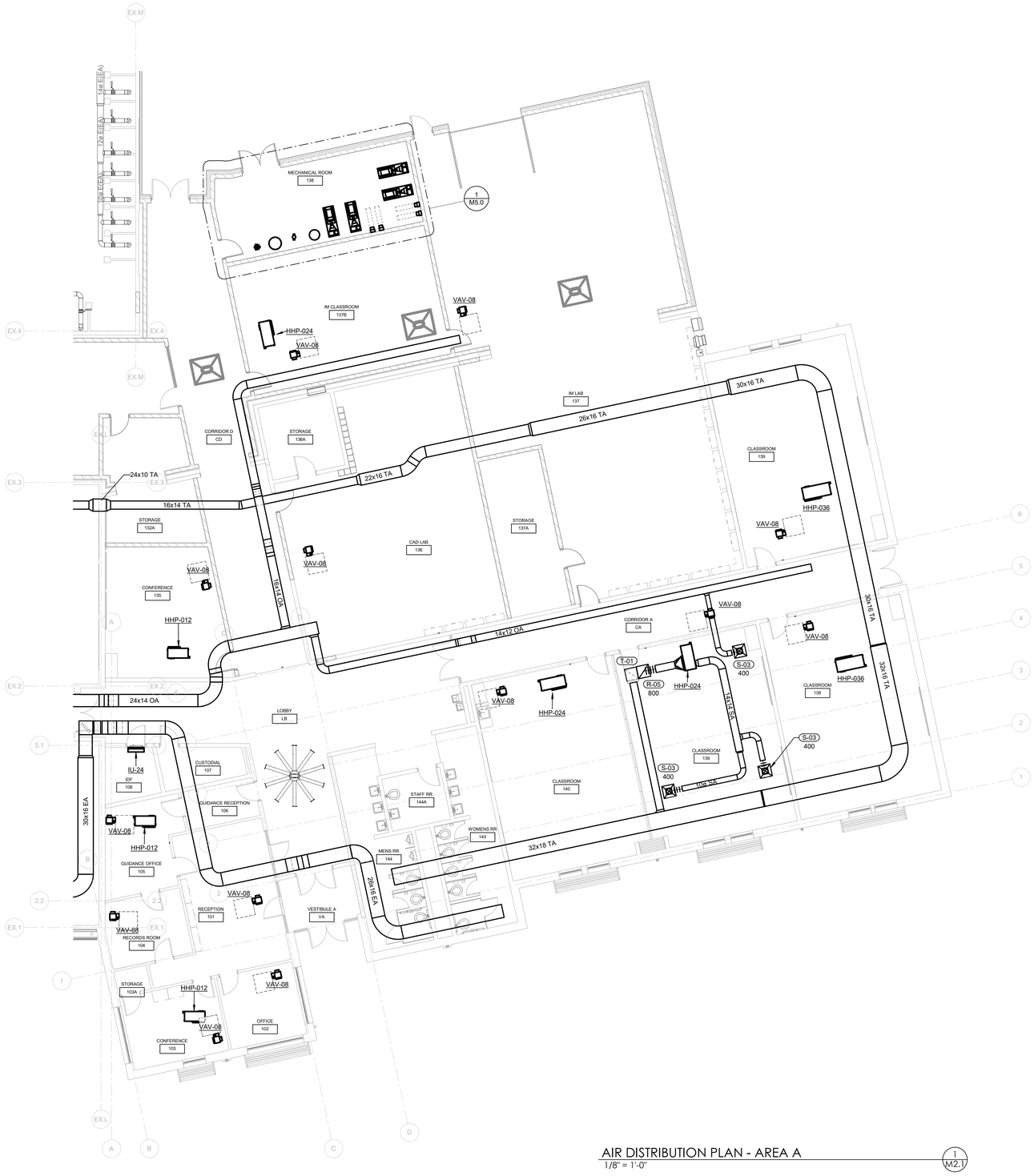
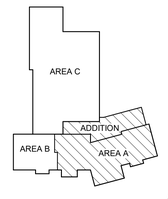


AIR DISTRIBUTION PLAN - AREA A
1/8" = 1'-0"
1 M2.1

TAGGED NOTES

KEY PLAN



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AIR DISTRIBUTION PLAN - AREA A

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892
Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG 25-341

Project No:	25015/XMTC25
Drawn By:	NRG
Rev'd By:	BDH

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AIR DISTRIBUTION PLAN - AREA A

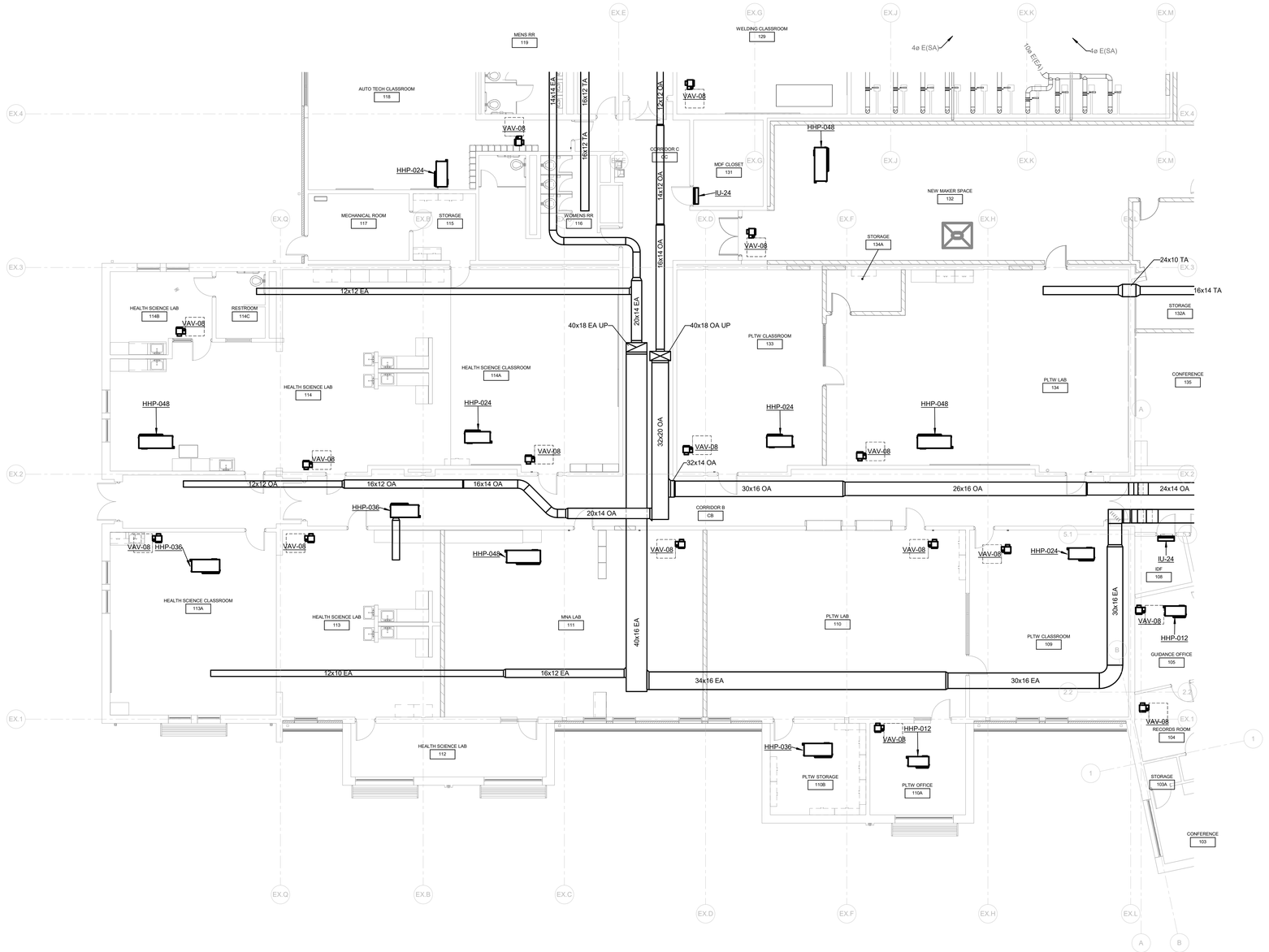
DATE ISSUED:
12/04/2025

REVISIONS

#	DATE	DESCRIPTION

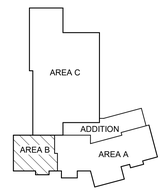
TAGGED NOTES

##



AIR DISTRIBUTION PLAN - AREA B
1/8" = 1'-0"
1 M2.2

KEY PLAN



SCALE: NTS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

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AIR DISTRIBUTION PLAN - AREA B
MARION COUNTY ATC - RENOVATION & ADDITION
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AIR DISTRIBUTION PLAN - AREA B

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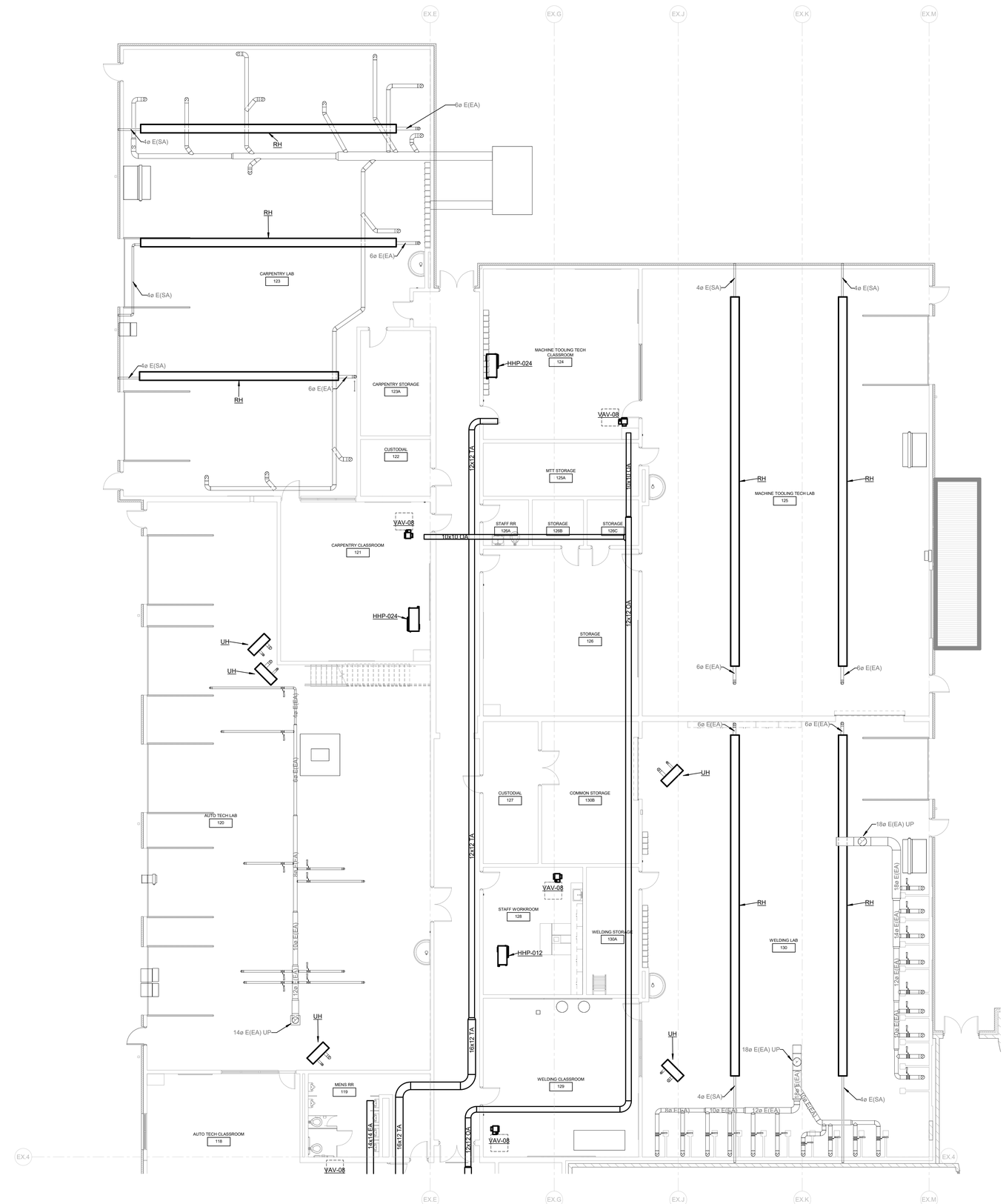
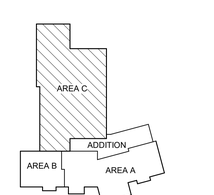


AIR DISTRIBUTION PLAN - AREA C
1/8" = 1'-0"
1 / M2.3

TAGGED NOTES

KEY PLAN



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AIR DISTRIBUTION PLAN - AREA C
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AIR DISTRIBUTION PLAN - AREA C
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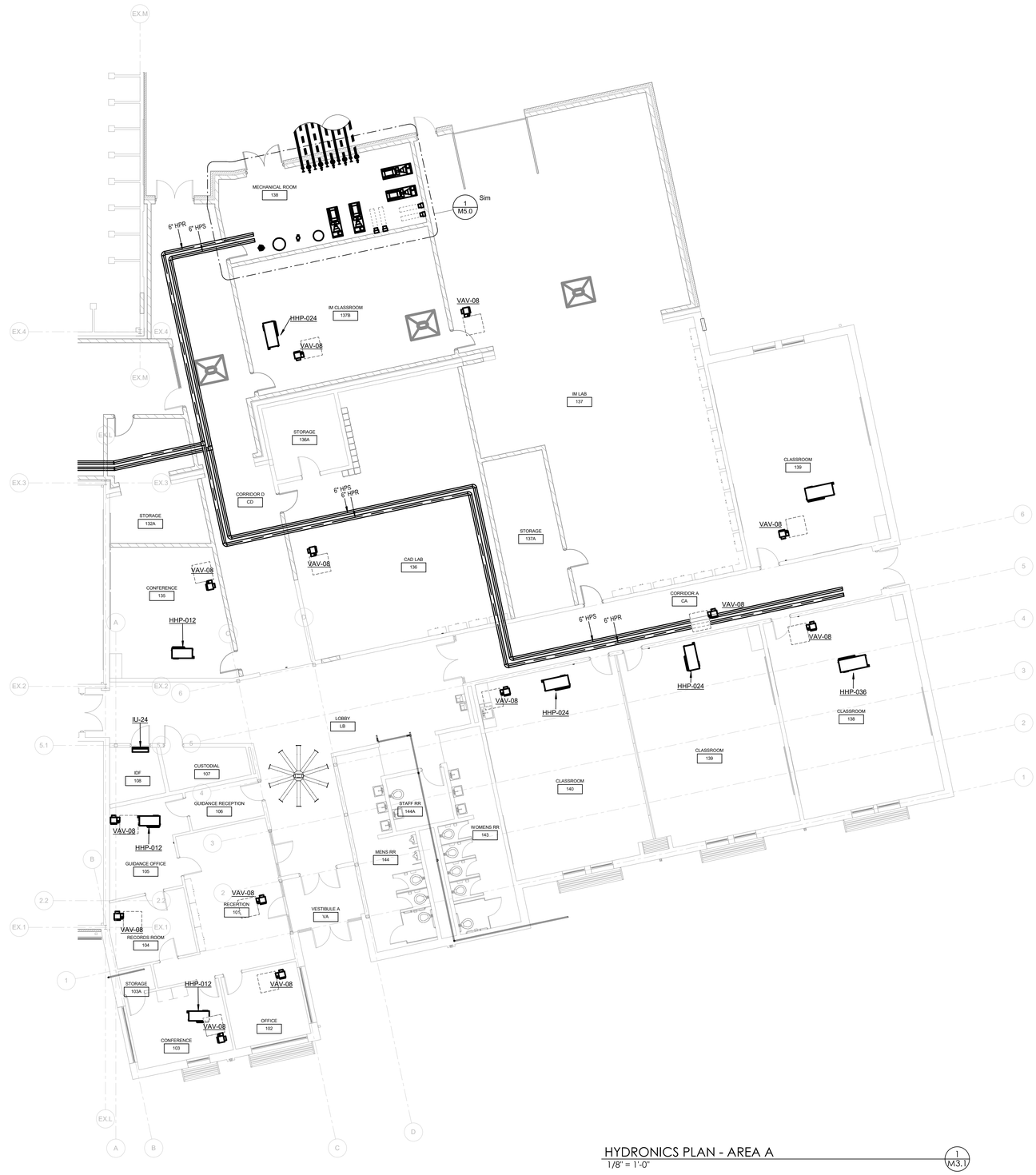


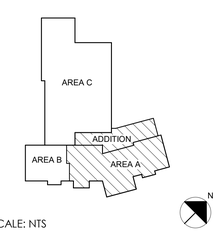
HYDRONICS PLAN - AREA A

1/8" = 1'-0"

1
M3.1

TAGGED NOTES

KEY PLAN



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HYDRONICS PLAN - AREA A

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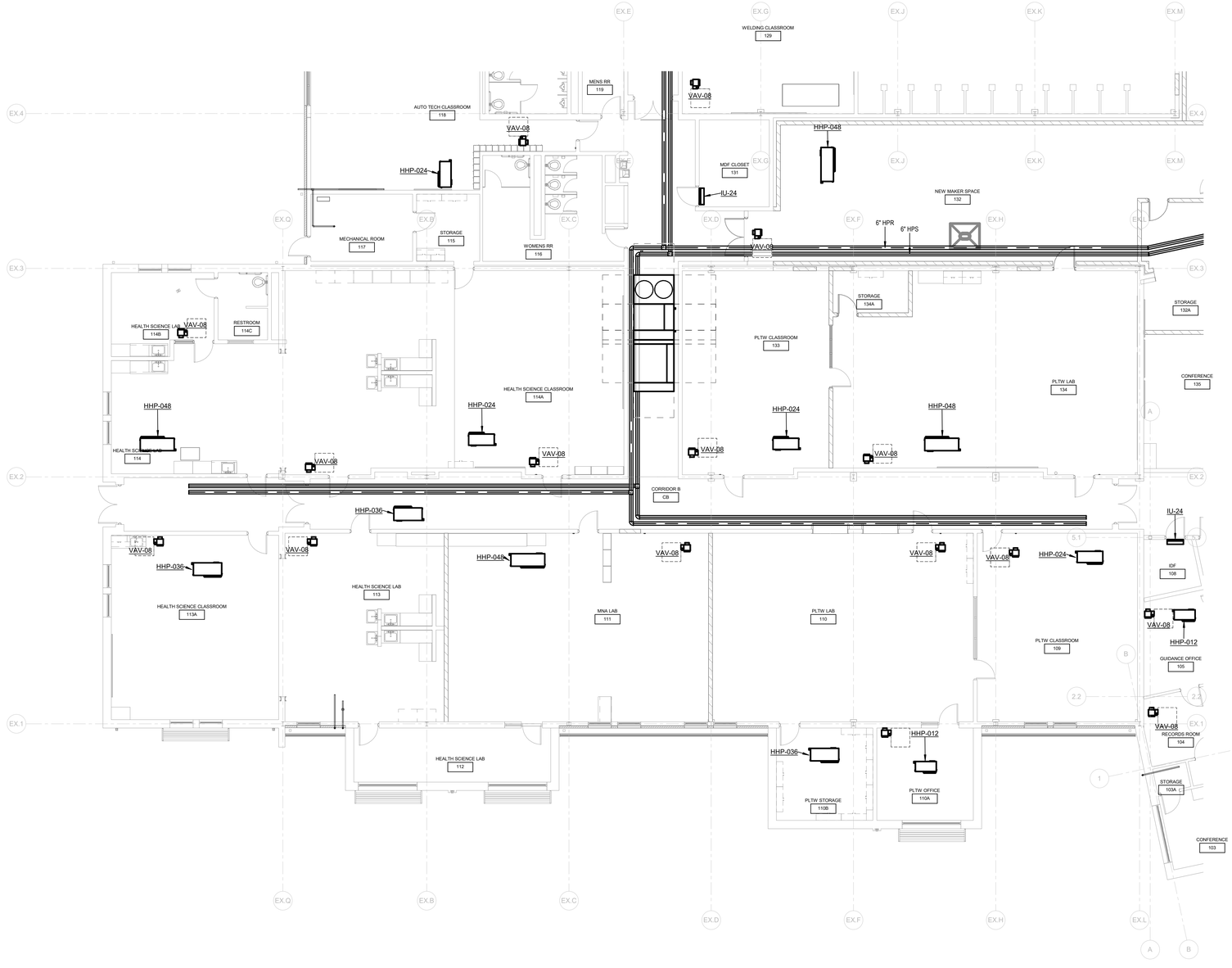
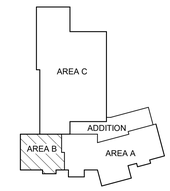


HYDRONICS PLAN - AREA B
1/8" = 1'-0"
1 / M3.2

KEY PLAN



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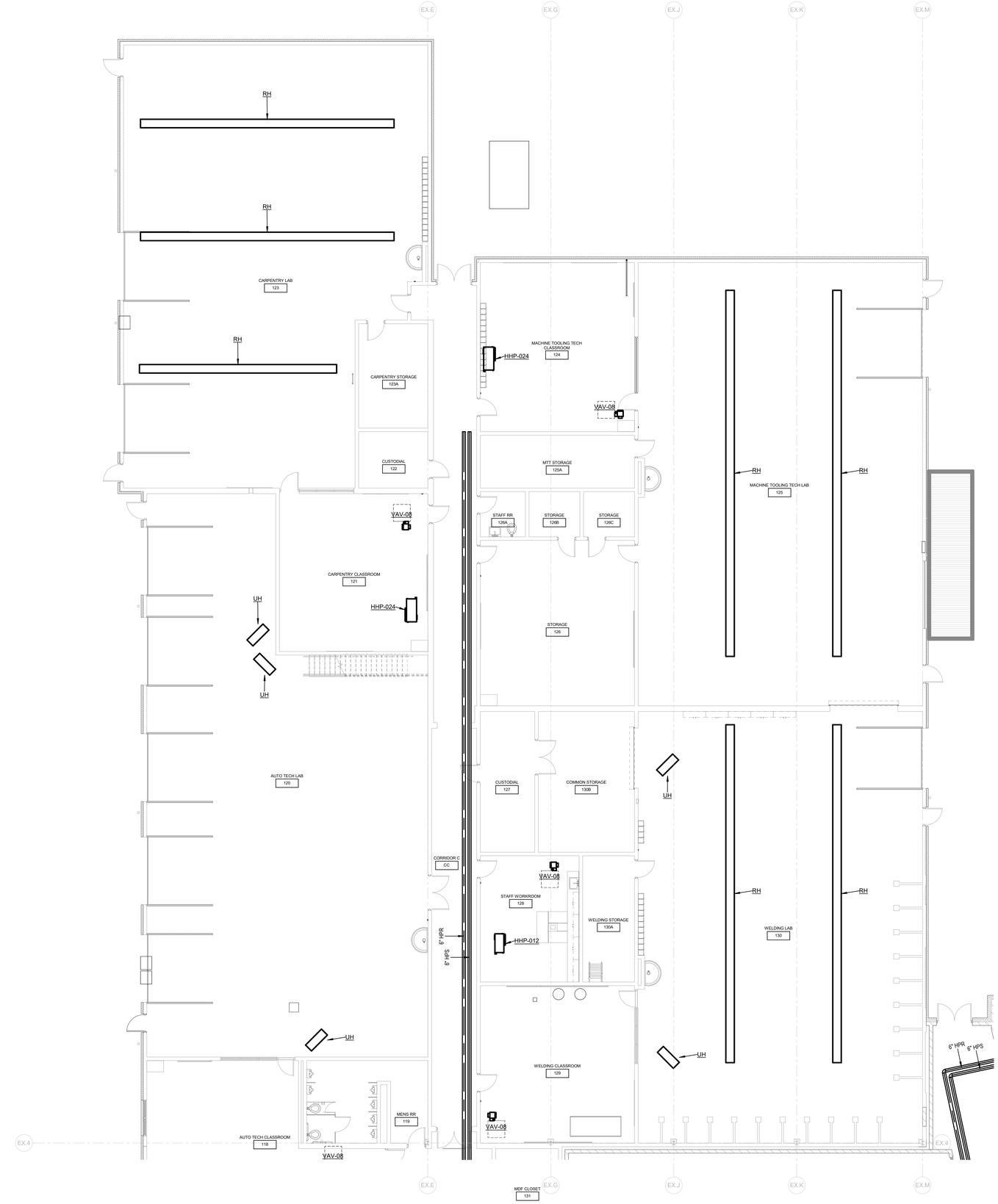

HYDRONICS PLAN - AREA C

1/8" = 1'-0"

1 / M3.3

TAGGED NOTES

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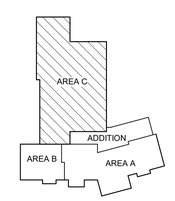
KEY PLAN



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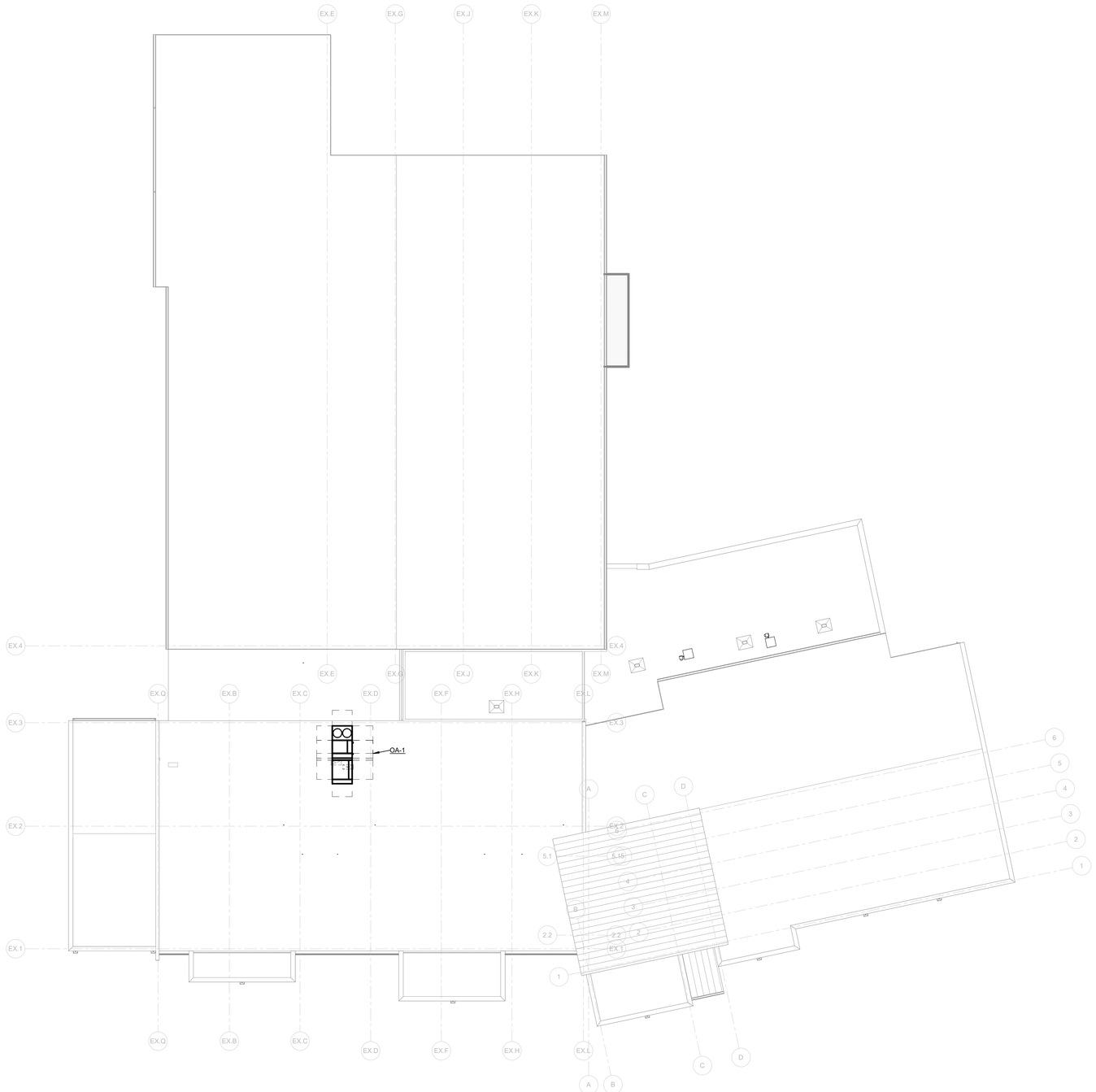


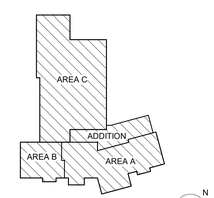
1 MECHANICAL PLAN - ROOF

SCALE: 1/16" = 1'-0"

0 4' 8' 16' 32' 48' 64'

TAGGED NOTES

KEY PLAN



SCALE: NTS

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MECHANICAL ROOF PLAN

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MECHANICAL ROOF PLAN

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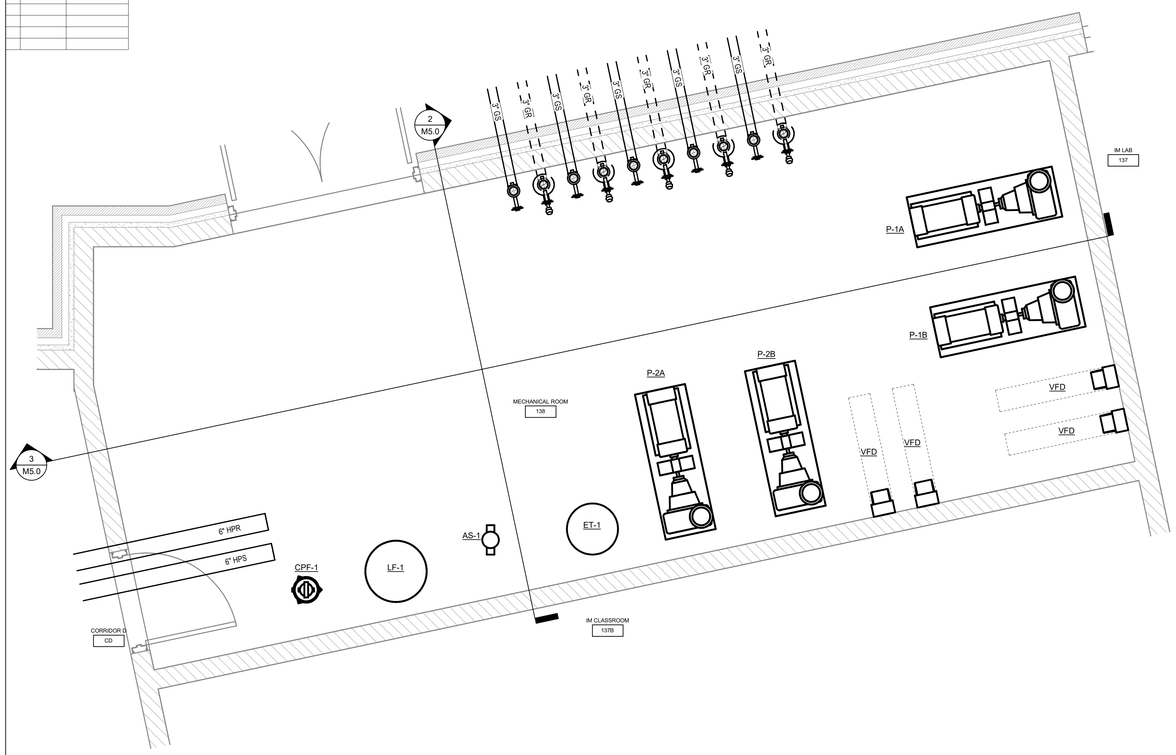
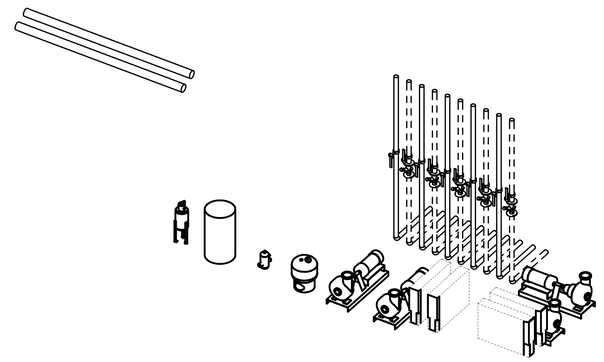
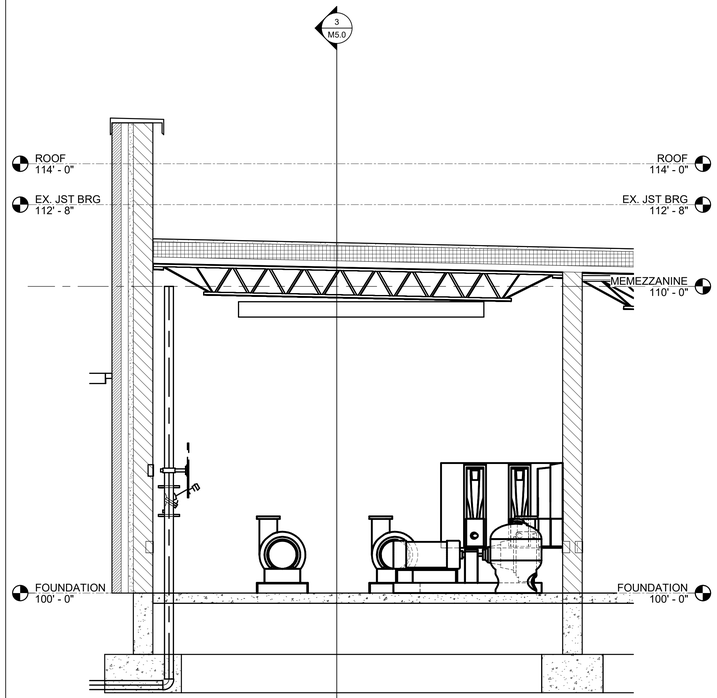


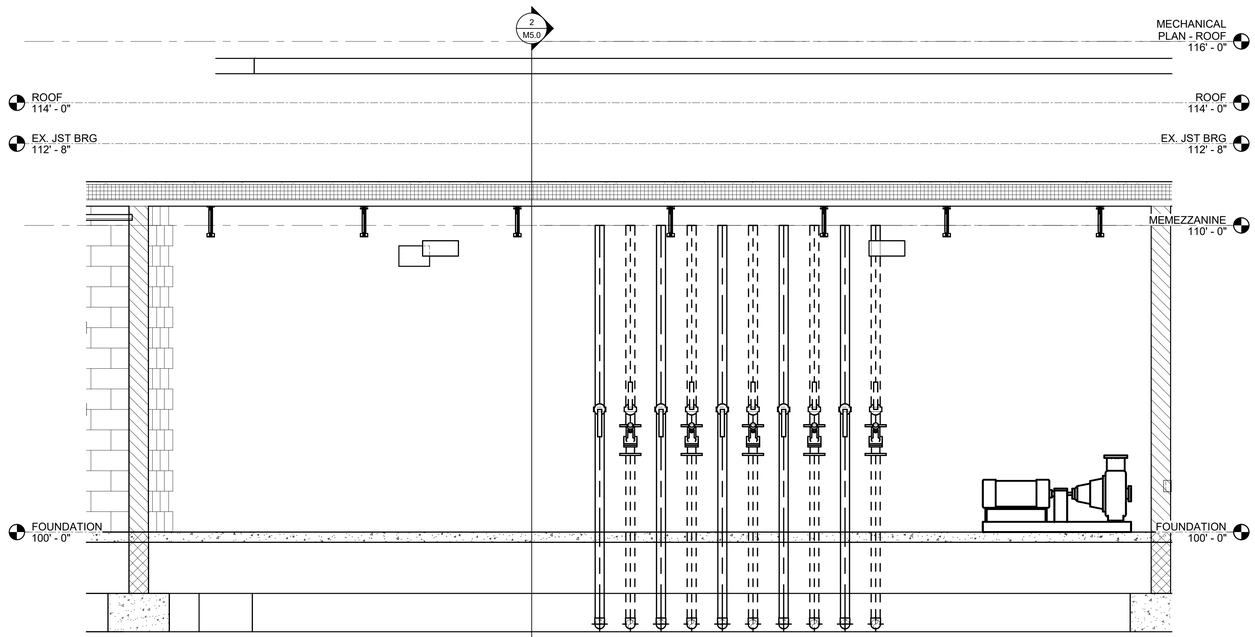
MECHANICAL ROOM 138 ENLARGED MECHANICAL PLAN
1/2" = 1'-0"
1 M5.0



MECHANICAL ROOM ISO #1
4 M5.0



MECHANICAL ROOM 138 SECTION VIEW 1
1/2" = 1'-0"
2 M5.0



MECHANICAL ROOM 138 SECTION VIEW 2
1/2" = 1'-0"
3 M5.0

TAGGED NOTES

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ENLARGED MECHANICAL PLANS
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ENLARGED MECHANICAL PLANS
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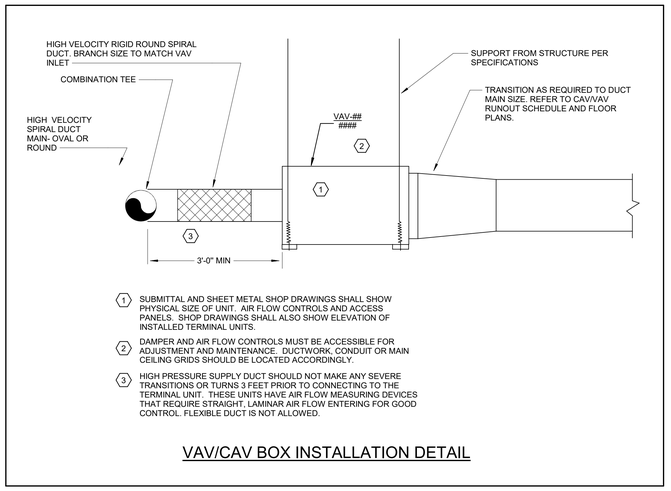
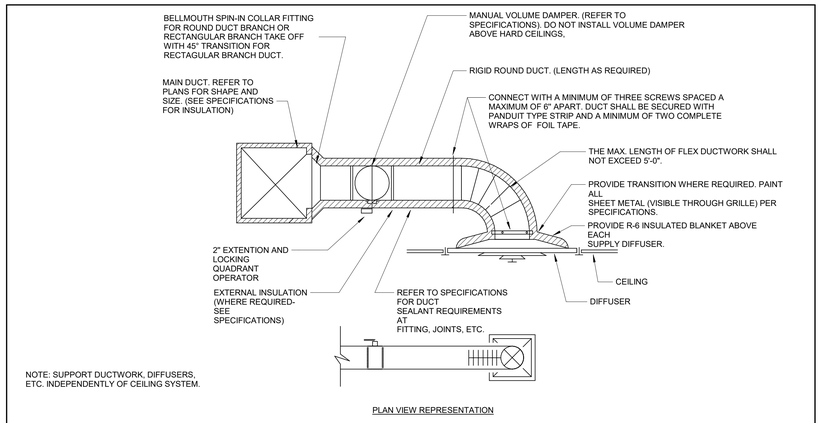


1. SUBMITTAL AND SHEET METAL SHOP DRAWINGS SHALL SHOW PHYSICAL SIZE OF UNIT. AIR FLOW CONTROLS AND ACCESS PANELS. SHOP DRAWINGS SHALL ALSO SHOW ELEVATION OF INSTALLED TERMINAL UNITS.
2. DAMPER AND AIR FLOW CONTROLS MUST BE ACCESSIBLE FOR ADJUSTMENT AND MAINTENANCE. DUCTWORK, CONDUIT OR MAIN CEILING GRIDS SHOULD BE LOCATED ACCORDINGLY.
3. HIGH PRESSURE SUPPLY DUCT SHOULD NOT MAKE ANY SEVERE TRANSITIONS OR TURNS 3 FEET PRIOR TO CONNECTING TO THE TERMINAL UNIT. THESE UNITS HAVE AIR FLOW MEASURING DEVICES THAT REQUIRE STRAIGHT, LAMINAR AIR FLOW ENTERING FOR GOOD CONTROL. FLEXIBLE DUCT IS NOT ALLOWED.

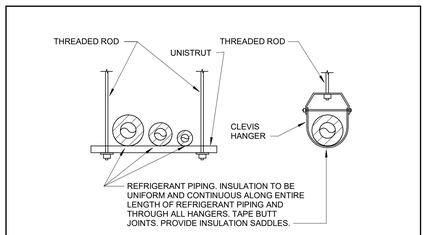
VAV/CAV BOX INSTALLATION DETAIL



NOTE: SUPPORT DUCTWORK, DIFFUSERS, ETC. INDEPENDENTLY OF CEILING SYSTEM.

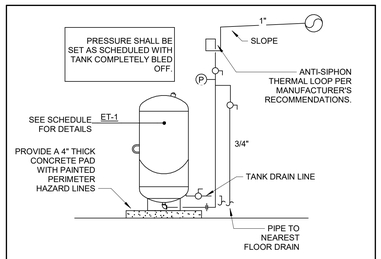
PLAN VIEW REPRESENTATION

SUPPLY AIR, OUTSIDE AIR, RETURN AIR, AND EXHAUST AIR BRANCH DUCT RUNOUT DETAIL

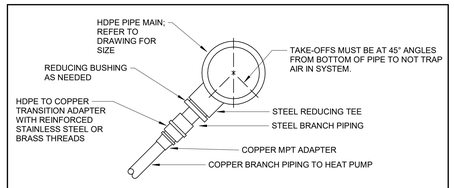


REFRIGERANT PIPING INSULATION DETAIL

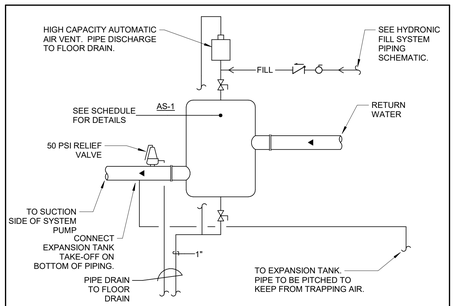
NOT TO SCALE



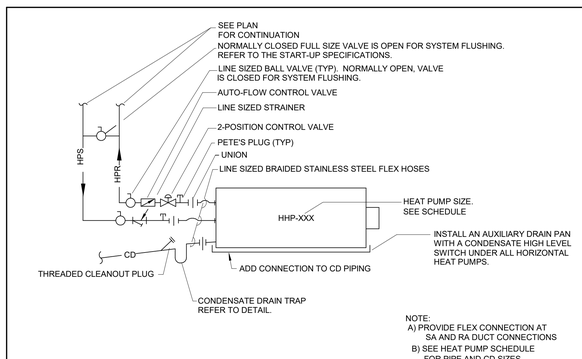
EXPANSION TANK PIPING DETAIL



GEOTHERMAL PIPE TAP DETAIL



AIR SEPERATOR PIPING DETAIL

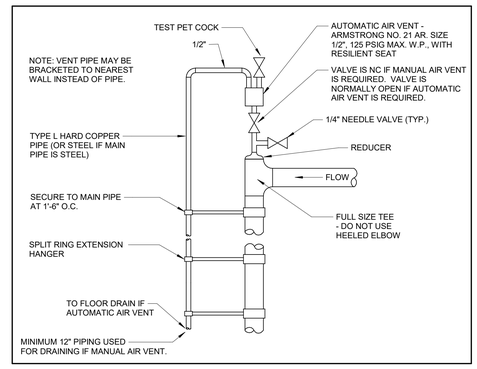


NOTE:
A) PROVIDE FLEX CONNECTION AT SA AND RA DUCT CONNECTIONS
B) SEE HEAT PUMP SCHEDULE FOR PIPE AND CD SIZES.

HORIZONTAL WATER SOURCE HEAT PUMP INSTALLATION DETAIL

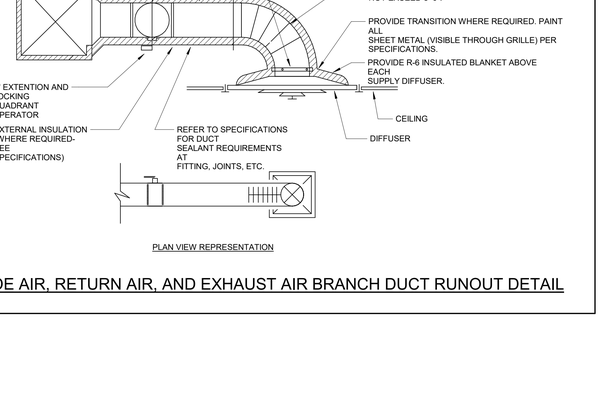
10 NON-RATED DUCT PENETRATION DETAIL

SCALE: NONE



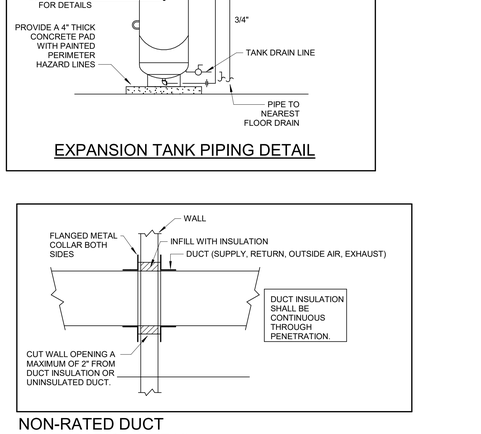
11 AUTOMATIC/MANUAL AIR VENT DETAIL - 3" & SMALLER

SCALE: NONE



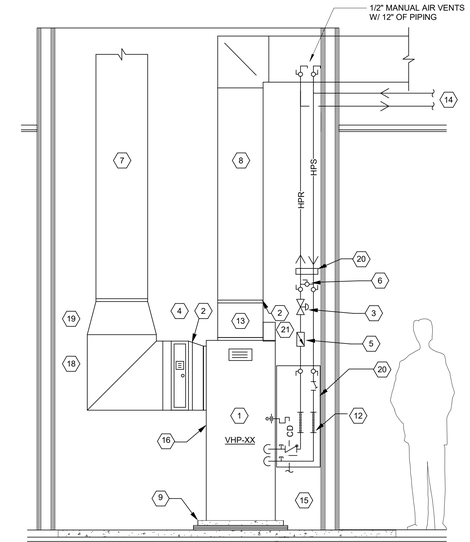
NOTE: ALL FIRE DAMPERS SHALL BE INSTALLED PER APPROVED UL-LISTED DETAIL

FIRE DAMPER DETAIL



12 AUTOMATIC AIR VENT DETAIL - 4" AND LARGER

SCALE: NONE



VERTICAL WATER SOURCE HEAT PUMP INSTALLATION DETAIL

HEAT PUMP DETAIL TAG NOTES: (X)

1. VERTICAL HEAT PUMP UNIT. DO NOT BLOCK ACCESS PANEL FOR HEAT PUMP UNIT WITH ANY OBJECT.
2. PROVIDE FLEXIBLE CANVAS CONNECTIONS AT UNIT CONNECTION. TRANSITION DUCTWORK TO UNIT OPENING AS NEEDED.
3. PROVIDE TWO-POSITION CONTROL VALVE.
4. SIDE ACCESS FILTER SECTION. PROVIDE 2" FILTER RACK WITH AIR TIGHT DOOR AND CAM LOCKS FOR 2" MERV 13 FILTER.
5. PROVIDE AUTO-FLOW CONTROL VALVE.
6. PROVIDE FULLSIZE BYPASS CONNECTION FROM SUPPLY TO RETURN PIPING FOR FLUSHING AND AIR REMOVAL. CLOSE BYPASS VALVE UPON COMPLETION OF FLUSHING AND PURGING. FLUSH PRIOR TO OPERATION. DO NOT CONNECT ANY UNITS UNTIL FLUSHING IS COMPLETE.
7. RETURN DUCTWORK. REFER TO DRAWINGS FOR DUCT SIZE.
8. SUPPLY DUCTWORK. REFER TO DRAWINGS FOR DUCT SIZE.
9. MOUNT UNIT ON 4" TALL CONCRETE HOUSEKEEPING PAD.
12. FLEXIBLE HOSE KITS, HOSE KITS SIZE SHALL MATCH PIPE RUN OUT SIZE SCHEDULED. TRANSITION DOWN AT UNIT AS REQUIRED. REFER TO SPECIFICATION FOR FURTHER REQUIREMENTS.
13. TRANSITION FROM FULL SIZE OF UNIT OUTLET TO DUCT SIZE INDICATED ON THE DRAWINGS.
14. REFER TO DRAWINGS FOR CONTINUATION OF PIPING. REFER TO THE PIPING RUNOUT SCHEDULE FOR SIZING.
15. ROUTE CONDENSATE TO ABOVE GRADE CONDENSATE SYSTEM ROUTING TO ABOVE CEILING SPACE ON LEVEL 1, UNTIL ROUTING UNDER GRADE. REFER TO M2.X SERIES SHEETS FOR CONDENSATE SYSTEM ROUTING.
16. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE ON SIDE OF HEAT PUMP TO ALLOW FOR MAINTENENCE ACCESS.
18. PROVIDE TRANSITION ELBOW WITH VANES FROM SIDE ACCESS FILTER TO RETURN DUCT DEPTH.
19. TRANSITION DUCT FROM ELBOW TO DUCT SIZE INDICATED ON PLANS.
20. SECURELY SUPPORT PIPING FROM WALL. UTILIZE VIBRATION ISOLATION SUPPORTS AT PIPING SUPPORT.
21. PROVIDE FACTORY MOUNTED DISCONNECT.

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MECHANICAL DETAILS

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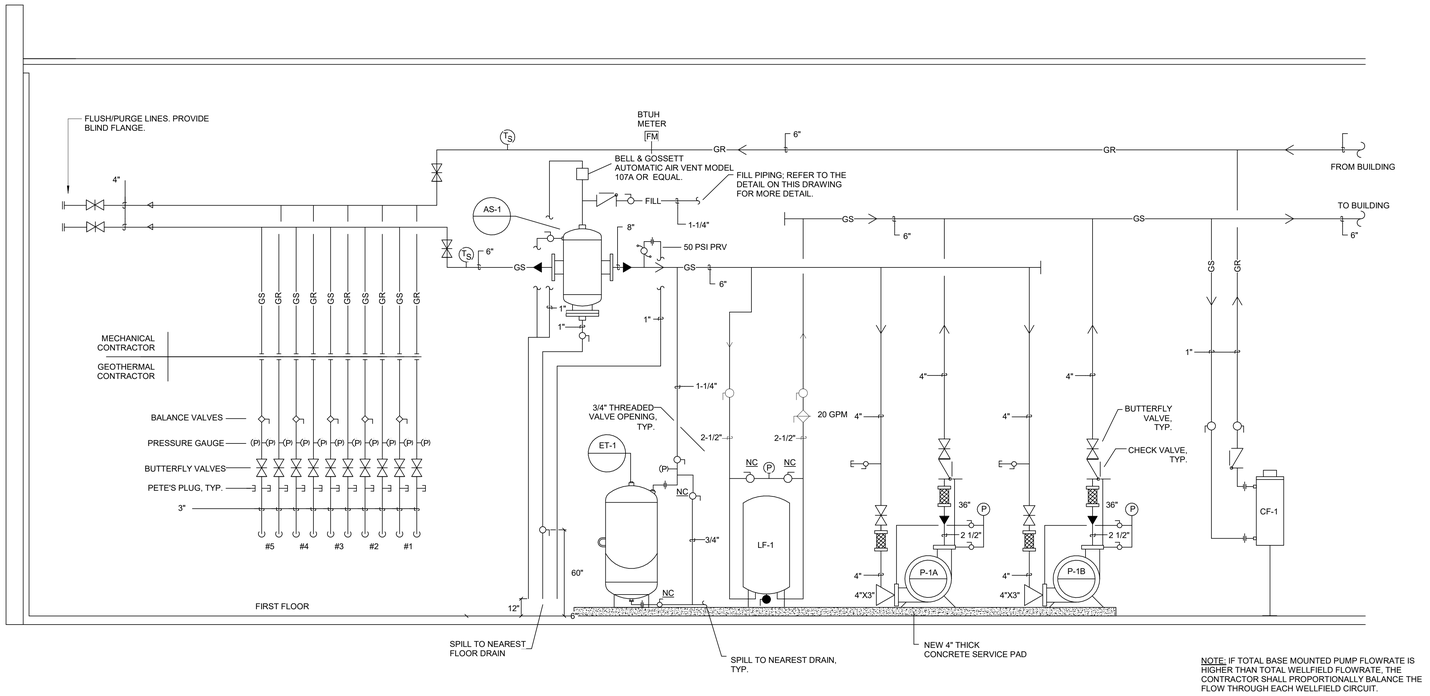
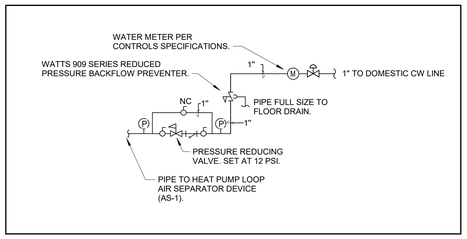


NOTE: IF TOTAL BASE MOUNTED PUMP FLOWRATE IS HIGHER THAN TOTAL WELLFIELD FLOWRATE, THE CONTRACTOR SHALL PROPORTIONALLY BALANCE THE FLOW THROUGH EACH WELLFIELD CIRCUIT.

1 GEOTHERMAL PIPING SCHEMATIC - MECHANICAL ROOM HEADER

SCALE: NONE



2 HYDRONIC FILL SCHEMATIC

SCALE: NONE

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

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MECHANICAL SCHEMATICS

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:

MARION COUNTY BOARD OF EDUCATION

LEBANON, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
Lexington, KY Office
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BG 25-341

Project No: 25015/XMTC25
Drawn By: NRG
Rev'd By: BDH

SHEET RELEASE

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MECHANICAL SCHEMATICS

DATE ISSUED:
12/04/2025

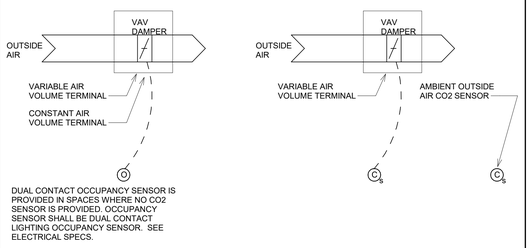
REVISIONS

#	DATE	DESCRIPTION

MECHANICAL CONTROL LEGEND

AFF	ABOVE FINISHED FLOOR	(Ts)	TEMPERATURE SENSOR
BAS	BUILDING AUTOMATION SYSTEM	(H)	HUMIDITY SENSOR
CO_2	CARBON DIOXIDE	(LL)	LOW LIMIT TEMPERATURE SENSOR
TCC	TEMPERATURE CONTROL CONTRACTOR	(P)	PRESSURE SENSOR
DP	DEWPOINT	(DP)	DUCT STATIC PRESSURE
EA	EXHAUST AIR PATH	DPSW	DIFFERENTIAL PRESSURE SWITCH
RA	RETURN AIR PATH	(DPS)	DIFFERENTIAL PRESSURE SENSOR
SA	SUPPLY AIR PATH	C	START/STOP COMMAND
HPS/R	HEAT PUMP WATER SUPPLY/RETURN	M	MOTORIZED DAMPER
NC	NORMALLY CLOSED	F	FLOW METER (MAINTAIN MANUFACTURER'S RECOMMENDED STRAIGHT LENGTH OF PIPE WHERE INSTALLED.)
OA	OUTSIDE AIR PATH		
OCC	OCCUPANCY	CS	CURRENT SENSOR
PRESS	PRESSURE	SD	DUCT SMOKE DETECTOR
DI	DIGITAL INPUT	COS	CONDENSATE OVERFLOW SENSOR
DO	DIGITAL OUTPUT	DSP-HL	DUCT STATIC PRESSURE - HIGH LIMIT
AI	ANALOG INPUT	DSP-LL	DUCT STATIC PRESSURE - LOW LIMIT
AO	ANALOG OUTPUT	ZN-DP	ZONE DEW POINT
VFD	VARIABLE FREQUENCY DRIVE	ZN-CO2	ZONE CARBON DIOXIDE SENSOR
RH	RELATIVE HUMIDITY	ZN-OCC	ZONE OCCUPANCY SENSOR
MAU	MAKE-UP AIR UNIT	ZN-T	ZONE TEMPERATURE SENSOR
O/H	OCCUPIED HEATING SETPOINT	CO2	AVERAGING TEMPERATURE SENSOR
O/C	OCCUPIED COOLING SETPOINT		CENTRIFUGAL FAN
U/H	UNOCCUPIED HEATING SETPOINT	AFS	AIR FLOW MONITORING STATION
U/C	UNOCCUPIED COOLING SETPOINT	VFD	VARIABLE FREQUENCY DRIVE
(K)	EMERGENCY HVAC/VENTILATION KILL BUTTON		
(Ta)	AVERAGING TEMPERATURE SENSOR		

ALL SPACES SERVED BY VARIABLE AIR VOLUME TERMINAL OR CONSTANT AIR VOLUME TERMINAL



DUAL CONTACT OCCUPANCY SENSOR IS PROVIDED IN SPACES WHERE NO CO2 SENSOR IS PROVIDED. OCCUPANCY SENSOR SHALL BE DUAL CONTACT LIGHTING OCCUPANCY SENSOR. SEE ELECTRICAL SPECS.

DEMAND CONTROL VENTILATION WITH CO2 SENSORS

1. DEMAND CONTROL VENTILATION SEQUENCE OF OPERATION

1.0 OCCUPIED MODE:

1.1. BMS shall monitor CO2 levels in each zone.

1.2. BMS shall compare the CO2 levels in each zone with OA CO2. A differential CO2 signal shall be sent to the BMS. The signal shall be a 0-10 VDC signal where 0 VDC represents 200 PPM differential, 5 VDC represents 500 PPM and 10 VDC represents 800 PPM differential.

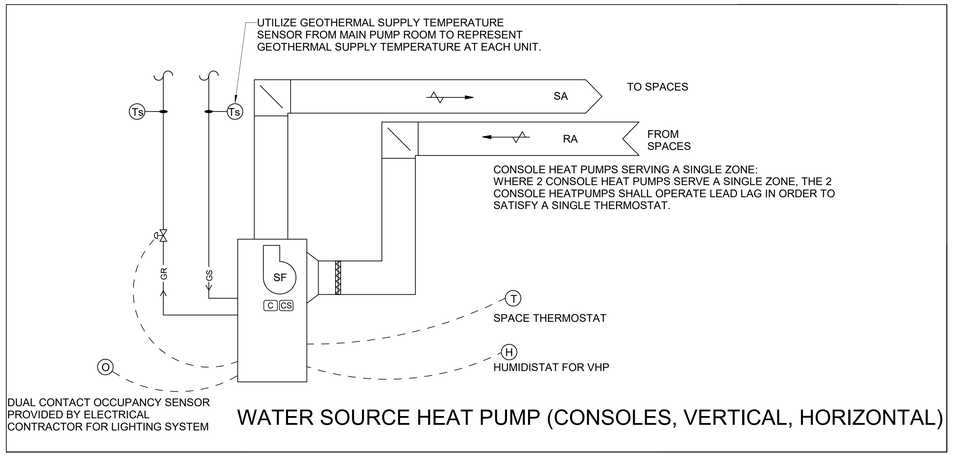
1.3. The VAV box controller shall modulate the VAV box damper to maintain as follows: 200 PPM (adj.) damper is closed, 500 PPM damper is half open (adj.)(half of maximum connected flow indicated on drawings), and 800 PPM (adj.) damper is full open(full open means equal to total connected flow listed on drawings). All VAV boxes controlled by CO2 sensors shall operate from 0 CFM to the max CFM value which is equal to the connected CFM on the drawings or total CFM provided by an individual box as shown on the drawings. If box requires a minimum input for proper operation when it begins modulating this value will be equal to the minimum CFM recommended by the manufacturer that allows the box to control.

1.4. Controls contractor is responsible for providing field mounted VAV box controller to accomplish sequence and achieve all listed control points.

1.5 If a space is not provided with a CO2 sensor, VAV box shall respond to occupancy sensor. During occupied hours the VAV box shall have an occupied standby CFM setting of 0 CFM when NO occupancy is detected in all spaces served by VAV box and an occupied CFM setting that will enable when occupancy is detected equal to the total of all CFM served by the VAV box on drawings. If VAV box serves more than one space then all space occupancy sensors must detect NO occupancy before VAV box is allowed to enable occupied standyby CFM setting. Box will operate at one of two fixed values. 0 CFM or Max CFM.

DEMAND CONTROL VENTILATION WITH CENTRALIZED CO2 SENSOR

PROJECT DESCRIPTION	POINT NAME	BI	BO	BV	AI	AO	AV	ALARM TYPE	GRAPHIC
OCCUPIED SCHEDULE	OCC_SCHED						X		YES
UNOCCUPIED SCHEDULE	UNOCC_SCHED						X		YES
VAV SET POINT MINIMUM OCCUPIED	VAV_SP_MIN_OCC					X			YES
VAV SET POINT MAXIMUM OCCUPIED	VAV_SP_MAX_OCC					X			YES
VAV SET POINT STANDBY OCCUPIED	VAV_SP_STBY_OCC					X			YES
VAV SET POINT UNOCCUPIED	VAV_SP_UNOCC					X			YES
VAV OCC SENSOR OCCUPIED	VAV_OCCS_OCC	X							
VAV OCC SENSOR UNOCCUPIED	VAV_OCCS_UNOCC	X							
VAV CFM ACTUAL	VAV_CFM_ACTUAL				X				YES
VAV DAMPER %OPEN	VAV_DAM_%				X				YES
ZONE CO2 LEVEL (PPM)	CO2_PPM				X				YES
ZONE CO2 SET POINT	CO2_SP					X			YES
CHANGE CO2 SENSOR ALARM	CO2_S_ALARM	X						BOOLEAN COMMAND FAIL	YES



WATER SOURCE HEAT PUMP (CONSOLES, VERTICAL, HORIZONTAL)

SINGLE STAGE AND TWO STAGE WATER SOURCE HEAT PUMP

Sequence of Operations
SINGLE STAGE AND TWO STAGE WATER SOURCE HEAT PUMPS

Building Automation System Interface:
The Building Automation System (BAS) shall send the **FACTORY MOUNTED CONTROLLER** Occupied Bypass, Morning Warm-up / Pre-Cool, Occupied / Unoccupied and Heat / Cool modes. If a BAS is not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints.

Occupied Mode:
During occupied periods, the supply fan shall run when temperature drifts outside the 2 degree setpoint offset and thusly there is a call for heating/cooling until thermostat setpoint is satisfied. The DX heating and cooling shall stage to maintain the occupied space temperature setpoint.

Unoccupied Mode:
When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan shall start and the DX heating shall be enabled. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop and the DX heating shall be disabled.
When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan shall start and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F (adj.) minus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop, the DX cooling shall be disabled.

Optimal Start:
The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

Morning Warm-Up Mode:
During optimal start, if the space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating and supply fan. When the space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

Pre-Cool Mode:
During optimal start, if the space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the fan and cooling. When the space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

Optimal Stop:
The BAS shall monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller shall maintain the space temperature to the space temperature offset setpoint.

Occupied Bypass:
The BAS shall monitor the status of the “on” and “cancel” buttons of the space temperature sensor. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

Cooling Mode:
The unit controller shall use space temperature and space temperature setpoint to determine when to stage the cooling. When the space temperature rises above the setpoint, the unit controller shall stage the DX cooling as required to maintain the space temperature setpoint. When the space temperature falls below the setpoint the controller shall disable DX cooling.

Heating Mode:
The unit controller shall use the space temperature and space temperature setpoint to determine when to initiate requests for heat. When the space temperature drops below the setpoint, the unit controller shall enable DX heating to maintain the space temperature setpoint. Once the space temperature rises above the setpoint the DX heating shall be disabled.

Supply Fan:
The supply fan shall be enabled while in the occupied mode and when temperature set point is not satisfied. A differential pressure switch shall monitor the differential pressure across the fan. If the switch does not open within 30 seconds (adj.) after a request for fan operation a fan failure alarm shall be annunciated at the BAS, the unit shall stop, requiring a manual reset.

Filter Timer:
The fan-run time (hrs) shall be compared to the filter maintenance timer setpoint. Once the setpoint is reached a filter timer alarm diagnostic shall be annunciated at the BAS. When the diagnostic is cleared, the filter-maintenance timer is reset to zero, and the timer begins accumulating fan-run time again.

Two-Way Valve Operation for GS/GR Water:
Each WSHP shall have a two-way two position valve that shall be controlled by the heat pump. The two-way valve shall be open prior to compressor operating due to any mode of operation listed above.

BACnet Integration:
These units shall be provided with factory mounted controls and all factory accessories required for BACnet integration. The units shall operate under their own controls.

VARIABLE SPEED WATER SOURCE HEAT PUMP

Sequence of Operations
VARIABLE SPEED WATER SOURCE HEAT PUMPS

Building Automation System Interface:
The Building Automation System (BAS) shall send the **FACTORY MOUNTED CONTROLLER** Occupied Heat / Cool modes. If a BAS is not present, or communication is lost with the BAS, the controller shall operate using default modes and setpoints.

Occupied Mode:
During occupied periods, the supply fan shall run when temperature drifts outside the 2 degree setpoint offset and thusly there is a call for heating/cooling until thermostat setpoint is satisfied. The DX heating and cooling shall modulate to maintain the occupied space temperature setpoint.

Unoccupied Mode:
When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan shall start and the DX heating shall be enabled. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop and the DX heating shall be disabled.
When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan shall start and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F (adj.) minus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop, the DX cooling shall be disabled.

Cooling Mode:
The unit controller shall use space temperature and space temperature setpoint to determine when to variably stage the cooling. When the space temperature rises above the setpoint, the unit controller shall variably stage the DX cooling as required to maintain the space temperature setpoint. When the space temperature falls below the setpoint the controller shall disable DX cooling.

Heating Mode:
The unit controller shall use the space temperature and space temperature setpoint to determine when to initiate requests for heat. When the space temperature drops below the setpoint, the unit controller shall enable DX heating to maintain the space temperature setpoint. Once the space temperature rises above the setpoint the DX heating shall be disabled.

Supply Fan:
The supply fan shall be enabled when temperature set point is not satisfied. A differential pressure switch shall monitor the differential pressure across the fan. If the switch does not open within 30 seconds (adj.) after a request for fan operation a fan failure alarm shall be annunciated at the BAS, the unit shall stop, requiring a manual reset.

Filter Timer:
The fan-run time (hrs) shall be compared to the filter maintenance timer setpoint. Once the setpoint is reached a filter timer alarm diagnostic shall be annunciated at the BAS. When the diagnostic is cleared, the filter-maintenance timer is reset to zero, and the timer begins accumulating fan-run time again.

Two-Way Valve Operation for GS/GR Water:
Each Variable Speed WSHP shall have a factory provided two-way modulating valve that shall be controlled by the variable speed heat pump controller. The two-way valve shall be open prior to compressor operating due to any mode of operation listed above.

BACnet Integration:
These units shall be provided with factory mounted controls and all factory accessories required for BACnet integration. The units shall operate under their own controls.

AVERAGING THERMOSTATS APPLIES TO ALL HEAT PUMPS SERVING MORE THAN ON THERMOSTAT:
WHERE 2 THERMOSTATS ARE SERVED BY ONE HEAT PUMP UNIT, THE THERMOSTATS SHALL AVERAGE THE TEMPERATURE SETPOINTS AND WORK TO SATISFY THE AVERAGED SETPOINT. EACH CLASSROOM WILL BE PROVIDED A DIGITAL THERMOSTAT THAT IS ADJUSTABLE AND WILL REFLECT THE LOCAL SETPOINT AND NOT THE AVERAGED SETPOINT. THE CONTROLS CONTRACTOR WILL BE RESPONSIBLE FOR ACHIEVING THIS CONTROL SEQUENCE. HE MAY AT HIS OPTION USE A MANUFACTURER PROVIDED THERMOSTAT OR CONTROLS CONTRACTOR PROVIDED THERMOSTAT. COORDINATE SEQENCE WITH HEAT PUMP MANUFACTURER.

SINGLE STAGE WATER SOURCE HEAT PUMP CONTROLS POINTS

POINT DESCRIPTION	POINT NAME	BI	BO	BV	AI	AO	AV	ALARM TYPE	GRAPHIC
TWO-WAY VALVE OPEN/CLOSE	TWV_OPEN_CLOSE_C		X						YES
TWO-WAY VALVE OVERIDE	TWV_C_OVRD			X					YES
TWO-WAY VALVE STATUS	TWV_OPERATING_ST	X						BOOLEAN COMMAND FAIL	YES
DISCHARGE AIR TEMPERATURE LOCAL	SA_T				X			OUT OF RANGE	YES
ENTERING WATER TEMPERATURE LOCAL	EWT_T				X				YES
LEAVING WATER TEMPERATURE LOCAL	LWT_T				X				YES
SPACE TEMPERATURE LOCAL	ST_LOCAL				X				YES
SPACE TEMPERATURE SETPOINT LOCAL	ST_STP_LOCAL				X				YES
COMPRESSOR 1 STATUS	COMP_S	X							YES
CONDENSATE OVERFLOW DETECTION LOCAL	COND_ALM	X						BOOLEAN CHANGE OF STATUS	YES
SUPPLY FAN STATUS LOCAL OPEN	SA_FAN_S	X						BOOLEAN COMMAND FAIL	YES
COMPRESSOR 1 START/STOP	COMP_C		X						YES
SUPPLY FAN START/STOP	SA_FAN_C		X						YES
OCCUPANCY SCHEDULE	OCC_SCHD						X		YES
OCCUPIED COOLING SETPOINT	OCC_CLG_STP						X		YES
OCCUPIED HEATING SETPOINT	OCC_HTG_STP						X		YES
OCCUPIED STANDBY COOLING SETPOINT	OCC_STBY_CLG_STP						X		YES
OCCUPIED STANDBY HEATING SETPOINT	OCC_STBY_HTG_STP						X		YES
UNOCCUPIED COOLING SETPOINT	UNOCC_CLG_STP						X		YES
UNOCCUPIED HEATING SETPOINT	UNOCC_HTG_STP						X		YES
OCCUPIED BYPASS TIMER	OCC_BYP_OVRD						X		YES
SETPOINT OFFSET	STP_T_OFFSET						X		YES
COMPRESSOR ENABLE	COMP_ENBL						X		YES
HEAT/COOL MODE	HEAT_COOL_M						X		YES
FAN MODE COMMAND	FAN_MODE						X		YES
APPLICATION MODE	APP_MODE						X		YES
EFFECTIVE OCCUPANCY	EFF_OCC						X		YES
EFFECTIVE HEAT/COOL MODE	EFF_HTG_CLG_MODE						X		YES
EFFECTIVE SPACE TEMPERATURE	EFF_SPACE_T						X		YES
EFFECTIVE SPACE SETPOINT	EFF_SPACE_STP						X		YES
LOCAL SETPOINT	LOC_STP						X		YES
HEAT OUTPUT	HTG_OP						X		YES
COOL OUTPUT	CLG_OP						X		YES
ALARM	ALARM						X		YES
SPACE HEATING/COOLING SETPOINT	SPACE_HTG_CLG_STP						X		YES
MAINTENANCE REQUIRED	MAINT_REQ_ALARM						X		YES

TWO STAGE WATER SOURCE HEAT PUMP CONTROLS POINTS

POINT DESCRIPTION	POINT NAME	BI	BO	BV	AI	AO	AV	ALARM TYPE	GRAPHIC
TWO-WAY VALVE OPEN/CLOSE	TWV_OPEN_CLOSE_C		X						YES
TWO-WAY VALVE OVERIDE	TWV_C_OVRD			X					YES
TWO-WAY VALVE STATUS	TWV_OPERATING_ST	X						BOOLEAN COMMAND FAIL	YES
DISCHARGE AIR TEMPERATURE LOCAL	SA_T				X			OUT OF RANGE	YES
ENTERING WATER TEMPERATURE LOCAL	EWT_T				X				YES
LEAVING WATER TEMPERATURE LOCAL	LWT_T				X				YES
SPACE TEMPERATURE LOCAL	ST_LOCAL				X				YES
SPACE TEMPERATURE SETPOINT LOCAL	ST_STP_LOCAL				X				YES
COMPRESSOR 1 STATUS	COMP_S1	X							YES
COMPRESSOR 2 STATUS	COMP_S2	X							YES
CONDENSATE OVERFLOW DETECTION LOCAL	COND_ALM	X						BOOLEAN CHANGE OF STATUS	YES
SUPPLY FAN STATUS LOCAL OPEN	SA_FAN_S	X						BOOLEAN COMMAND FAIL	YES
COMPRESSOR 1 START/STOP	COMP_C1		X						YES
COMPRESSOR 2 START/STOP	COMP_C2		X						YES
REVERSING VALVE	REV_V_C		X						YES
SUPPLY FAN START/STOP	SA_FAN_C		X						YES
OCCUPANCY	OCC_STP						X		YES
OCCUPIED COOLING SETPOINT	OCC_CLG_STP						X		YES
OCCUPIED HEATING SETPOINT	OCC_HTG_STP						X		YES
OCCUPIED STANDBY COOLING SETPOINT	OCC_STBY_CLG_STP						X		YES
OCCUPIED STANDBY HEATING SETPOINT	OCC_STBY_HTG_STP						X		YES
UNOCCUPIED COOLING SETPOINT	UNOCC_CLG_STP						X		YES
UNOCCUPIED HEATING SETPOINT	UNOCC_HTG_STP						X		YES
OCCUPIED BYPASS TIMER	OCC_BYP_OVRD						X		YES
SETPOINT OFFSET	STP_T_OFFSET						X		YES
COMPRESSOR ENABLE	COMP_ENBL						X		YES
HEAT/COOL MODE							X		
FAN MODE COMMAND	FAN_MODE						X		
APPLICATION MODE	APP_MODE						X		
EFFECTIVE OCCUPANCY	EFF_OCC						X		YES
EFFECTIVE HEAT/COOL MODE	EFF_HTG_CLG_MODE						X		YES
EFFECTIVE SPACE TEMPERATURE	EFF_SPACE_T						X		YES
EFFECTIVE SPACE SETPOINT	EFF_SPACE_STP						X		
LOCAL SETPOINT	LOC_STP						X		
HEAT OUTPUT	HTG_OP						X		YES
COOL OUTPUT	CLG_OP						X		YES
ALARM	ALARM						X		YES
SPACE HEATING/COOLING SETPOINT	SPACE_HTG_CLG_STP						X		YES
MAINTENANCE REQUIRED	MAINT_REQ_ALARM						X		
BAS COMMUNICATION STATE							X		YES

VARIABLE SPEED WATER SOURCE HEAT PUMP CONTROLS POINTS

POINT DESCRIPTION	POINT NAME	BI	BO	BV	AI	AO	AV	ALARM TYPE	GRAPHIC
TWO-WAY VALVE OPEN/CLOSE	TWV_OPEN_CLOSE_C					X			YES
TWO-WAY VALVE OVERIDE	TWV_C_OVRD						X		YES
TWO-WAY VALVE STATUS	TWV_OPERATING_ST				X			BOOLEAN COMMAND FAIL	YES
DISCHARGE AIR TEMPERATURE LOCAL	SA_T				X			OUT OF RANGE	YES
ENTERING WATER TEMPERATURE LOCAL	EWT_T				X				YES
LEAVING WATER TEMPERATURE LOCAL	LWT_T				X				
SPACE TEMPERATURE LOCAL	ST_LOCAL				X				YES
SPACE TEMPERATURE SETPOINT LOCAL	ST_STP_LOCAL				X				YES
COMPRESSOR 1 STATUS	COMP_S	X							YES
CONDENSATE OVERFLOW DETECTION LOCAL	COND_ALM	X						BOOLEAN CHANGE OF STATUS	YES
SUPPLY FAN STATUS LOCAL OPEN	SA_FAN_S	X						BOOLEAN COMMAND FAIL	YES
COMPRESSOR 1 START/STOP	COMP_C		X						YES
ISOLATION VALVE COMMAND			X						YES
REVERSING VALVE			X						YES
SUPPLY FAN START/STOP	SA_FAN_C		X						YES
OCCUPANCY							X		
OCCUPIED COOLING SETPOINT	OCC_CLG_STP						X		
OCCUPIED HEATING SETPOINT	OCC_HTG_STP						X		
OCCUPIED STANDBY COOLING SETPOINT	OCC_STBY_CLG_STP						X		
OCCUPIED STANDBY HEATING SETPOINT	OCC_STBY_HTG_STP						X		
UNOCCUPIED COOLING SETPOINT	UNOCC_CLG_STP						X		
UNOCCUPIED HEATING SETPOINT	UNOCC_HTG_STP						X		
OCCUPIED BYPASS TIMER	OCC_BYP_OVRD						X		
SETPOINT OFFSET	STP_T_OFFSET						X		
COMPRESSOR ENABLE	COMP_ENBL						X		
HEAT/COOL MODE							X		
FAN MODE COMMAND	FAN_MODE						X		
APPLICATION MODE	APP_MODE						X		
EFFECTIVE OCCUPANCY	EFF_OCC						X		YES
EFFECTIVE HEAT/COOL MODE	EFF_HTG_CLG_MODE						X		YES
EFFECTIVE SPACE TEMPERATURE	EFF_SPACE_T						X		YES
EFFECTIVE SPACE SETPOINT	EFF_SPACE_STP						X		
LOCAL SETPOINT	LOC_STP						X		
HEAT OUTPUT	HTG_OP						X		YES
COOL OUTPUT	CLG_OP						X		YES
ALARM	ALARM						X		YES
SPACE HEATING/COOLING SETPOINT	SPACE_HTG_CLG_STP						X		YES
MAINTENANCE REQUIRED	MAINT_REQ_ALARM						X		
BAS COMMUNICATION STATE							X		YES

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NOT FOR CONSTRUCTION

MECHANICAL CONTROLS
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
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Structural Engineer:
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BG 25-341

Project No: 25015/XMTC25
Drawn By: NRG
Rev'd By: BDH

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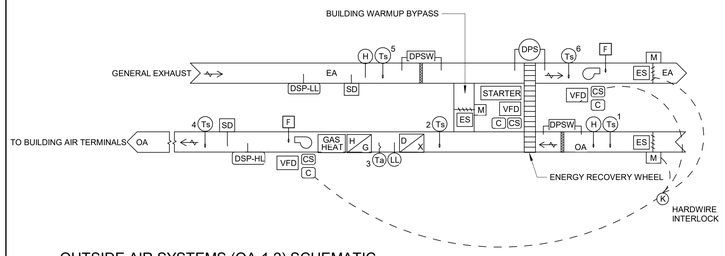
MECHANICAL CONTROLS

DATE ISSUED:
12/04/2025

REVISIONS

#	DATE	DESCRIPTION



OUTSIDE AIR SYSTEMS (OA-1,2) SCHEMATIC

NOT TO SCALE

OA-1 POINTS LIST

POINT DESCRIPTION	POINT NAME	BI	BO	BV	AI	AO	AV	ALARM TYPE	GRAPHIC
DEHUMIDIFICATION SETPOINT	OA_DHUM_SPT						X		YES
OA INTAKE HUMIDITY SENSOR 1	OA_HUM_S_1				X				YES
EA DISCHARGE HUMIDITY SENSOR 2	EA_HUM_S_2				X				YES
OA_EA BYPASS DAMPER	OA_EA_BYP_DAMP_C					X		BOOLEAN COMMAND FAIL	
OA_EA BYPASS DAMPER STATUS	OA_EA_BYP_DAMP_ST	X							YES
OA_EA BYPASS DAMPER OVERIDE	OA_EA_BYP_DAMP_OVRD						X		
OA INTAKE DAMPER	OA_INT_DAMP_C					X		BOOLEAN COMMAND FAIL	
OA INTAKE DAMPER STATUS	OA_INT_DAMP_ST	X							YES
OA INTAKE DAMPER OVERIDE	OA_INT_DAMP_OVRD						X		
EA RELIEF DAMPER	EA_INT_DAMP_C					X		BOOLEAN COMMAND FAIL	
EA RELIEF DAMPER STATUS	EA_INT_DAMP_ST	X							YES
EA RELIEF DAMPER OVERIDE	EA_INT_DAMP_OVRD						X		
OUTSIDE AIR TEMPERATURE SENSOR 1	OA_TEMP_S_1				X				YES
OUTSIDE AIR TEMPERATURE SENSOR 2	OA_TEMP_S_2				X				YES
OUTSIDE AIR DX TEMPERATURE SENSOR 3 SERPENTINE ACROSS COILS	OA_TEMP_S_3				X				YES
OUTSIDE AIR TEMPERATURE SENSOR 4 DAT	OA_TEMP_S_4				X				YES
OA PREFILTER STATUS	OA_FLTR_DP_S				X			OUT OF RANGE	YES
SCHEDULE	OCC_S			X					YES
OA FANS START/STOP	OAFAN_RUN_C		X					BOOLEAN COMMAND FAIL	YES
OA FANS START/STOP OVERRIDE	OAFAN_RUN_OVRD			X				BOOLEAN COMMAND FAIL	YES
OA FANS STATUS	OAFAN_RUN_ST	X						BOOLEAN COMMAND FAIL	YES
OA FANS VFD FAULT	OAFAN_VFDFLT_S	X						BOOLEAN CHANGE OF STATUS	YES
OA FANS VFD SPEED	OAFAN_VFD_SPD_C					X			YES
OA FANS VFD SPEED OVERRIDE	OAFAN_VFD_SPD_OVRD						X		YES
FAN 1 OA AIR CFM	OAFAN1_AF_CFM				X				YES
OA SMOKE DETECTOR	OA_SMOKE_DET	X						BOOLEAN CHANGE OF STATUS	YES
OA STATIC PRESSURE	OA_SP_S				X				YES
OA STATIC PRESSURE SETPOINT	OA_SP_SETP						X		YES
OA STATIC PRESSURE RESET SETPOINT	OA_SP_RESET_SETP						X		YES
OCCUPIED COOLING SETPOINT	OCC_CLG_SETP						X		YES
OCCUPIED HEATING SETPOINT	OCC_HTG_SETP						X		YES
DUCT STATIC PRESSURE HIGH LIMIT	OA_DSP_HL	X						OUT OF RANGE	YES
DUCT STATIC PRESSURE LOW LIMIT	EA_DSP_LL	X						OUT OF RANGE	YES
UNOCCUPIED BUILDING WARMUP HEATING SETPOINT	UNOCC_WARMUP_HTG_SETP						X		YES
EA SMOKE DETECTOR	EA_SMOKE_DET	X						BOOLEAN COMMAND FAIL	YES
EXHAUST AIR TEMPERATURE SENSOR 5	EA_TEMP_S_5				X				YES
EXHAUST AIR TEMPERATURE SENSOR 6	EA_TEMP_S_6				X				YES
EA PREFILTER STATUS	EA_FLTR_DP_S				X			OUT OF RANGE	YES
ENERGY RECOVERY WHEEL DIFF. PRESS. SENSOR	ERW_DP_S				X			OUT OF RANGE	YES
ENERGY RECOVERY WHEEL START/STOP	ERW_RUN_C		X					BOOLEAN COMMAND FAIL	YES
ENERGY RECOVERY WHEEL START/STOP OVERIDE	ERW_RUN_OVRD			X				BOOLEAN COMMAND FAIL	YES
ENERGY RECOVERY WHEEL STATUS	ERW_RUN_ST	X						BOOLEAN COMMAND FAIL	YES
ENERGY RECOVERY WHEEL FREEZE CONTROL	ERW_FRZ_C			X					
EA FANS START/STOP	EAFAN_RUN_C		X					BOOLEAN COMMAND FAIL	YES
EA FANS START/STOP OVERRIDE	EAFAN_RUN_OVRD			X				BOOLEAN COMMAND FAIL	YES
EA FANS STATUS	EAFAN_RUN_ST	X						BOOLEAN COMMAND FAIL	YES
EA FANS VFD FAULT	EAFAN_VFDFLT_S	X						BOOLEAN CHANGE OF STATUS	YES
EA FANS VFD SPEED	EAFAN_VFD_SPD_C					X			YES
EA FANS VFD SPEED OVERRIDE	EAFAN_VFD_SPD_OVRD						X		YES
FAN 1 EA AIR CFM	EAFAN1_AF_CFM				X				YES
UNOCCUPIED SCHEDULE	UNOCC_S			X					YES

OUTSIDE AIR SYSTEMS:

1. ALL OF THE FOLLOWING CONTROL SEQUENCES PRETAIN TO OA-1
2. THE SYSTEM SHALL OPERATE UNDER THE CONTROL OF A LOCAL, STAND-ALONE MICROPROCESSOR BASED DDC CONTROLLER.
3. THE SYSTEM SHALL BE PLACED INTO THE OCCUPIED/UNOCCUPIED MODE BASED UPON THE USER ADJUSTABLE SCHEDULE AT THE NETWORK CONTROLLER. THESE SYSTEMS SHALL BE IN THE OCCUPIED MODE DURING REGULAR SCHOOL HOURS ONLY (8:00AM to 3:00PM)
4. IF COMMUNICATION IS LOST BETWEEN THE NETWORK CONTROLLER AND THE OUTISDE AIR SYSTEM CONTROLLER, THEN THE OUSIDE AIR SYSTEM SHALL BE PLACED INTO THE UNOCCUPIED MODE UNTIL COMMUNICATION IS RESTORED.
5. THE SYSTEM WILL BE PLACED INTO A MODE OF OPERATION BASED UPON THE FOLLOWING ADJUSTABLE TERMPERATURE SCHEDULE:

OUTSIDE AIR TEMPERATURE	MODE OF OPERATION
81 DEG F OR GREATER (ADJ.)	COOLING MODE
BETWEEN 50 DEG F AND 81 DEG F (ADJ.)	WHEEL ONLY MODE
50 DEG F OR LESS (ADJ.)	HEATING MODE

6. IN THE UNOCCUPIED MODE WHICH OCCURS DURRING NON SCHOOL HOURS.

- THE SUPPLY FAN AND EXHAUST SHAL BE OFF,
- THE ENERGY RECOVERY WHEEL SHALL BE OFF,
- THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL BE FULLY CLOSED,
- FACE AND BYPASS DAMPER SHALL BE IN FULL FACE POSITION.
- MORNING WARM-UP DAMPER SHALL BE CLOSED.

7. WHEN PLACED INTO THE OCCUPIED MODE, THE FOLLOWING SHALL OCCUR IN SEQUENTIAL ORDER:

- THE ENERGY RECOVERY WHEEL SHALL START AND OPERATION SHALL BE PROVED VIA CURRENT SWITCH,
- THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL FULLY OPEN AND BE PROVED VIA END SWITCH.
- THE SUPPLY FAN/VFD AND EXHAUST FAN/VFD SHALL START AND OPERATION SHALL BE PROVED VIA CURRENT SWITCH.
- THE SYSTEM SHALL NOT START IF ANY ONE COMPONENT DOES NOT PROVE OPERATION.

8. IN THE OCCUPIED MODE, THE DX SYSTEM OR GAS FIRED HEATER SHALL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE (ADJ.) BASED UPON THE FOLLOWING SCHEDULE:

DISCHARGE AIR TEMPERATURE	MODE OF OPERATION
68 DEG F (ADJ.)	COOLING MODE
VARIES	WHEEL ONLY MODE
65 DEG F (ADJ.)	HEATING MODE

9. COOLING MODE: IF THE OUTSIDE AIR TEMPERATURE IS 81 DEG F (ADJ.) OR GREATER, COOLING MODE SHALL BE ENABLED. THE ENERGY RECOVERY WHEEL SHALL BE ACTIVE. THE DX HEAT PUMP SYSTEM SHALL BE ACTIVE. THE DX COIL CAPACITY SHALL MODULATE WITH THE HOT GAS REHEAT COIL OPERATIONAL TO DISCHARGE 68 DEG F (ADJ.) DISCHARGE TEMPERATURE SETPOINT. SUPPLY FAN SHALL OPERATE AT CONSTANT VOLUME TO MAINTAIN REQUIRED VENTILATION AIRFLOW. EXHAUST FAN SHALL TRACK SUPPLY FAN WITH AN OFFSET AS FOLLOWS: OA-1 OFFSET = 800 CFM, OA-2 OFFEST = 650 CFM.

10. WHELL ONLY MODE: IF THE OUTSIDE AIR TEMPERATURE IS BETWEEN 50 AND 81 DEG F (ADJ.), WHEEL ONLY MODE SHALL BE ENABLED. THE ENERGY RECOVERY WHEEL SHALL BE ACTIVE. THE HEAT PUMP SYSTEM SHALL BE OFF. THE GAS HEATER SHALL BE OFF. THE DISCHARGE TEMPERATURE SHALL VARY. SUPPLY FAN SHALL OPERATE CONSTANT VOLUME TO MAINTAIN REQUIRED VENTILATION. EXHAUST FAN SHALL TRACK SUPPLY FAN WITH AN OFFSET AS FOLLOWS: OA-1 OFFSET = 800 CFM, OA-2 OFFEST = 650 CFM.

11. HEATING MODE: IF THE OUTSIDE AIR TEMPERATURE IS BELOW 50 DEG F (ADJ.), HEATING MODE SHALL BE ENABLED. THE ENERGY RECOVERY WHEEL SHALL BE ACTIVE. THE HEAT PUMP SYSTEM SHALL BE ACTIVE FOR FIRST STAGE OF HEATING WHEN ABOVE MANUFACTURER'S RECOMMENDED AMBIENT TEMPERATURE. THE MODULATING GAS HEATER SHALL OPERATE AS THE SECOND STAGE OF HEATING IF AMBIENT TEMPERATURE IS TOO COLD PER MANUFACTURER'S REQUIREMENTS. THE DISCHARGE TEMPERATURE SHALL BE 65 DEG. F (ADJ.) SUPPLY FAN SHALL OPERATE TO MAINTAIN REQUIRED VENTILATION AIRFLOW. EXHAUST FAN SHALL TRACK SUPPLY FAN WITH AN OFFSET AS FOLLOWS: OA-1 OFFSET = 800 CFM, OA-2 OFFEST = 650 CFM.

12. DEHUMIDIFICATION MODE: WHEN THE DUCT-MOUNTED EXHAUST AIR RELATIVE HUMIDITY SENSOR READS 65% THE OUTSIDE AIR SYSTEM SHALL OPERATE IN COOLING MODE UNTIL EXHAUST AIR RELATIVE HUMIDITY IS BELOW 60% AT WHICH TIME THE OUTSIDE AIR SYSTEM WILL RETURN TO NORMAL OPERATING SEQUENCES.

13. THE SUPPLY FAN SHALL BE CONTROLLED BY THE VFD. THE SUPPLY FAN SHALL BE SET TO A CONSTANT VOLUME WITH THE VFD PER OA UNIT SCHEDULE. DETERMINE IN THE FIELD WITH THE TAB CONTRCTOR THE VFD SETPOINT TO OBTAIN ACCEPTABLE AIRFLOW AS DESIGNED.

14. HARDWARE INTERLOCK SUPPLY FAN, EXHAUST FAN, AND ISOLATION DAMPERS WITH EMERGENCY HVAC/VENTILATION KILL BUTTON.

15. THE EXHAUST FAN SHALL TRACK THE OUTSIDE AIR FAN VIA AIRFLOW STATION AND SHALL MAINTAIN AN OFFSET AS FOLLOWS: OA-1 OFFSET = 800 CFM, OA-2 OFFEST = 650 CFM TO MAINTAIN A POSITIVE BUILDING PRESSURIZATION. THE VFD SHALL BE UTILIZED TO BALANCE EXHAUST FAN AND TO ALLOW APPROPRIATE TRACKING PER ABOVE.

16. THE COOLING COIL IS A DX REFRIGERANT COIL WITH HOT GAS REHEAT COIL FOR TEMPERATURE CONTROL. LOW TEMPERATURE CUTOUT IS LOCATED ON THE DISCHARGE OF THE COIL AND SHALL ACTIVATE WHEN THE LEAVING AIR TEMPERATURE FALLS BELOW 35 DEG F. THE SUPPLY AND EXHAUST FANS SHALL STOP, OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL CLOSE. NOTE: THIS COIL DOES NOT HAVE A FREEZE CONDITION THIS IS FOR OCCUPANT COMFORT.

17. A SMOKE DETECTOR SHALL BE LOCATED IN EACH AIR SYSTEM. IF SMOKE IS DETECTED, THEN THE SYSTEM SHALL SHUTOFF AND AN AUDIO/VISUAL ALARM SHALL ACTIVATE, UPON CORRECTION OF PROBLEM, THE SYSTEM SHALL BE RESET AND SHALL RETURN TO NORMAL OPERATION. COORDINATE WITH FIRE ALARM SYSTEM. ANY ACTIVATION OF THE BUILDING'S FIRE ALARM SYSTEM SHALL SHUTDOWN THE OA UNITS COMPLETELY.

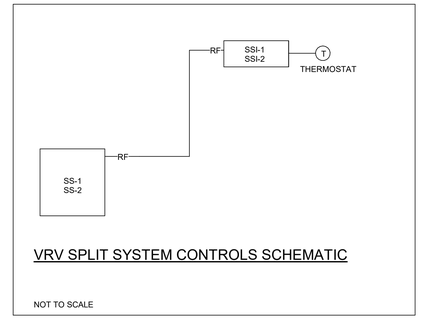
18. THE UNIT SHALL BE PROVIDED WITH A BUILDING WARM UP/COOL DOWN BYPASS DUCT. THIS BYPASS SHALL CREATE A 100% RECIRCULATING SYSTEM AND NOT USE ANY FRESH AIR SINCE THE BUILDING IS UNOCCUPIED. WHEN THE INDOOR UNOCCUPIED SETBACK TEMPERATURE HAS FALLEN BELOW 62 DEG F. (ADJ.) THE FANS SHALL BE ENGAGED AND THE UNIT SHALL DISCHARGE 95 DEG F (ADJ.) 1 HOUR PRIOR TO OCCUPANCY UNTIL EITHER BUILDING TEMPERATURE IS 68 DEG F (ADJ.) OR OCCUPIED TIME IS REACHED. DURRING WARM UP/COOL DOWN MODE THE UNNIT SHALL OPERATE AT NORMAL CONSTANT VOLUME CFM SETTING TO BOOST TEMPERATURE.

19. WHERE INDICATED ON CONTROLS DIAGRAM A FILTER PRESSURE DIFFERENTIAL SENSOR SHALL MONITOR FILTER STATIC PRESSURE AND SHALL ALARM IF PRESSURE DROP EXCEEDS 0.6" W.G. (ADJ.)

21. A STATIC PRESSURE SENSOR (DSP-HL) SHALL BE LOCATED AT OA-1 SUPPLY AIR OUTLET IN THE DISCHARGE PLENUM. IF PRESSURE IN THE SUPPLY PLENUM EXCEEDS 4.0" W.G. (ADJ.) THE FANS SHALL BE SHUT DOWN. UPON CORRECTION OF THE PROBLEM, THE SYSTEM SHALL BE RESET AND UNIT SHALL RETURN TO NORMAL OPERATION. THIS SHALL BE A MANUAL RESET.

22. A STATIC PRESSURE SENSOR (DSP-LL) SHALL BE LOCATED AT OA-1 EXHAUST AIR INLET IN THE EXHAUST PLENUM. IF PRESSURE IN THE SUPPLY PLENUM EXCEEDS -4.0" W.G. (ADJ.) THE FANS SHALL BE SHUT DOWN. UPON CORRECTION OF THE PROBLEM, THE SYSTEM SHALL BE RESET AND UNIT SHALL RETURN TO NORMAL OPERATION. THIS SHALL BE A MANUAL RESET.

23. VFD DEFROST CONTROL-WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 5 DEGREES F (ADJ.). THE ENERGY WHEEL SHALL SLOW TO 25% OF DESIGN SPEED FOR A PERIOD OF 3 MINUTES, IT SHALL DO THIS EVERY 60 MINUTES.



VRV SPLIT SYSTEM CONTROLS SCHEMATIC

NOT TO SCALE

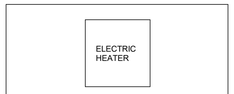
1. SPLIT SYSTEM SS-#/SSI-#

1.1. These units shall be provided with factory controls. The DDC system shall monitor space temperature and provide a high temperature alarm. Provide all necessary wiring conduit, etc. as required to interlock the DDC thermostat with unit and condensing unit. Rooms shall have space temperature and the split system shall control to maintain space a minimum of 72°F (adj.).

1.2. The DDC system shall have the ability to start and stop the split system. These shall be provided with a BACnet over MSTP communication and all points shall be available to the DDC system.

VRV SPLIT SYSTEM HEAT PUMP CONTROLS POINTS

POINT DESCRIPTION	POINT NAME	BI	BO	BV	AI	AO	AV	ALARM TYPE	GRAPHICS
ROOM TEMPERATURE ACTUAL	VRW_ROOM_T				X			OUT OF RANGE	YES
TEMPERATURE SETTING	VRW_TS					X			YES
HEATING_COOL MODE	VRW_H_C					X			YES
OCCUPIED SCHEDULE	OCC_S						X		YES
UNOCCUPIED SCHEDULE	UNOCC_S						X		YES



ELECTRIC HEATER

NOT TO SCALE

1. All electric heaters shall be set to 65 degrees F.
2. All electric heaters shall be scheduled on and off based on classroom occupied and unoccupied times.
3. Provide all electric heaters with temperature sensors tied to electric heater and set through the BMS headend. Controls contractor will be responsible for coordinating with electric heater proivded and ensuring electric heater can be controlled by a temperature sensor.

ELECTRIC HEATERS CONTROLS POINTS

DISPLAY NAME	POINT NAME	BI	BO	BV	AI	AO	AV	ALARM TYPE	GRAPHIC
START/STOP	EH_C		X					BOOLEAN COMMAND FAIL	YES
START/STOP OVERRIDE	EH_C_OVRD			X				BOOLEAN COMMAND FAIL	YES
STATUS	EH_S	X						BOOLEAN COMMAND FAIL	YES
SCHEDULE	OCC_S			X					
SPACE TEMPERATURE	EH_SPT				X				

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MECHANICAL CONTROLS
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

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BG 25-341

Project No: 25015/XMTC25
Drawn By: NRG
Rev'd By: BDH

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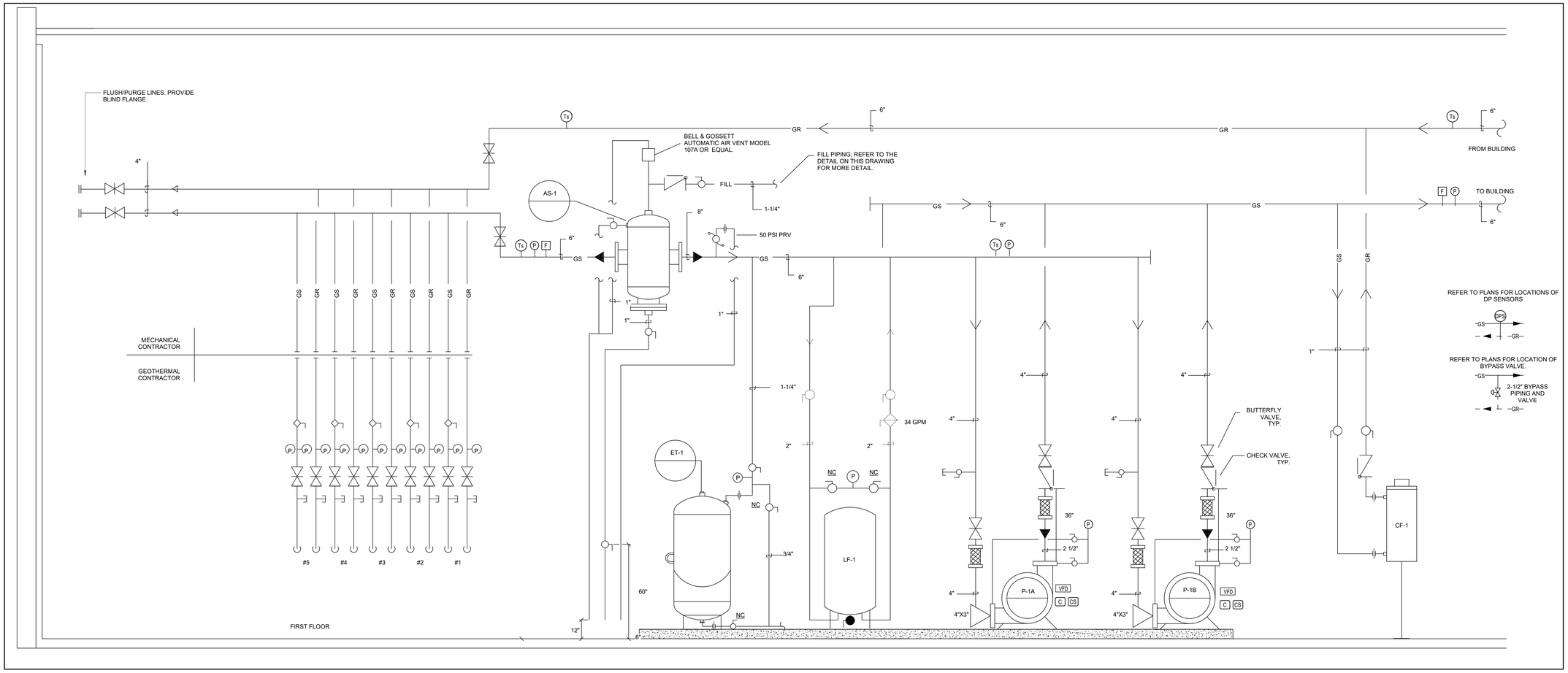
MECHANICAL CONTROLS

DATE ISSUED:
12/04/2025

REVISIONS

#	DATE	DESCRIPTION



1 GEOTHERMAL HYDRONIC CONTROLS SCHEMATIC

SCALE: NONE

Geothermal Hydronics controls sequences (BUILDING LOOP PUMPS P-1A AND P-1B) GS AND GR:

OCCUPIED Conditions:

1. An adjustable building occupancy schedule will indicate when the building loop pump system GS and GR pumps P-1A and P-1B is in occupied mode.
2. When the building loop system is in occupied mode the GS and GR pumps P-1A and P-1B shall operate lead/standby to satisfy differential pressure sensors located 2/3 the way out in the system and located in 1 location. The pumps shall satisfy the differential pressure sensor setting (adj.). The differential pressure sensor setpoint (adj.) shall be set by the balancing contractor such that the pumps can satisfy flow through all pieces of watersource equipment in the building. The DP setpoint shall be set at 10 PSI (adj.) unless a different differential pressure is determined to be required by the balancing contractor; if so determined, the DP setpoint may be adjusted higher or lower.
3. If actual pressure measured at DP sensor is measured 5 PSI (adj.) higher than DP setpoint then the minimum flow bypass valve shall be opened until 5 watersource units are polled to be active. Upon polling watersource equipment and finding 5 active units the Bypass Valve shall close.
4. GS/GR pumps shall operate lead/standby. Lead pump shall alternate on an adjustable time schedule. Initial rotation set to a month.

UNOCCUPIED Conditions:

1. An adjustable building occupancy schedule will indicate when the building loop pump system GS and GR pumps P-1A and P-1B is in unoccupied mode.
2. When the building loop system is in unoccupied mode the GS and GR pumps P-1A and P-1B shall be off.
3. If durring unoccupied mode 1 or more (adj.) water source units become acitve, the GS and GR pumps shall become occupied until 1 or fewer water source units are active. Upon polling water souce units and finding one or fewer (adj.) active during unoccupied hours the pumps shall deenergize.
4. GS/GR pumps shall operate lead/standby.

ALARMS:

1. If GS/GR loop temps are above 105 degrees an alarm shall be sent to BAS headend.
2. If GS/GR loop temps are below 32 degrees an alarm shall be sent to BAS headend.
3. If GS and GR loop temps exceed 105 degrees the system pumps P-1A and P-1b shall stop and all heat pumps in the building shall be placed in unoccupied mode so heat rejection stops.
4. If GS and GR loop temps drop below 32 degrees the system pumps P-1A and P-1b shall stop and all heat pumps in the building shall be placed in unoccupied mode so heat absorption stops.

Geothermal Fill Line controls sequences:

1. The fill line flow meter shall calculate the amount of gallons supplied to the hydronic line. The calculation shall start upon the flow meter sending a signal due to fill line operation and stop upon the signal ceasing due to fill line operation stopping. The amount of time the fill line operated shall also be calculated. Upon the fill line ceasing operation the gallons measured and time measured shall be reset to zero.
2. If the fill line operates continuosly for a period of ten minutes (ADJ.) an alarm shall be signaled to the BAS headend and an email alert shall be sent to the appropriate authorities.
3. If the fill line operates continuosly and a measured gallons supplied reaches 10 gallons (ADJ.) in a continuous operation an alarm shall be sent to the BAS headend and an email alert shall be sent to the appropriate authorities.

NOTE: Refer to mechanical details for sensor requirements and piping schematic of fill line sheet M6.2.

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MECHANICAL CONTROLS

DATE ISSUED:
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#	DATE	DESCRIPTION

DEDICATED OUTDOOR AIR SYSTEM SCHEDULE

MARK	MANUFACTURER	MODEL #	SERVICE	LOCATION	PHYSICAL DATA WIDTH (IN.)	PHYSICAL DATA LENGTH (IN.)	PHYSICAL DATA HEIGHT (IN.)	PHYSICAL DATA WEIGHT (LBS)	SUPPLY FAN TOTAL SA CFM	SUPPLY FAN MOTOR TYPE	SUPPLY FAN # OF FANS	SUPPLY FAN RPM	SUPPLY FAN E.S.P. (" WC)	SUPPLY FAN T.S.P. (" WC)	SUPPLY FAN RATED H.P. (PER FAN)	SUPPLY FAN B.H.P. (PER FAN)	SUPPLY FAN VOLT.	SUPPLY FAN PH.	SUPPLY FAN OP. FREQ.	RETURN FAN TOTAL EA CFM	RETURN FAN MOTOR TYPE	RETURN FAN # OF FANS	RETURN FAN RPM	RETURN FAN E.S.P. (" WC)	RETURN FAN T.S.P. (" WC)	RETURN FAN RATED H.P. (PER FAN)	RETURN FAN B.H.P. (PER FAN)	RETURN FAN VOLT.	RETURN FAN PH.	RETURN FAN MCA	RETURN FAN MOCP	RETURN FAN OP. FREQ.	REMARKS
OA-1	DAIKIN			ROOF					7500																							

DEDICATED OUTDOOR AIR SYSTEM SCHEDULE - DX COIL AND GAS HEAT

MARK	NO. OF ROWS	FIN SPACING (FINS/IN)	DX COIL COOLING PERFORMANCE TOTAL (MBH)	SENSIBLE (MBH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	FACE VELOCITY (FPM)	APD (IN. WG.)	GAS HEAT HEAT CAPACITY INPUT (MBH)	TOTAL OUTPUT (MBH)	EAT (°F)	LAT (°F)	FLA	APD (IN. WG.)
OA-1																

DEDICATED OUTDOOR AIR SYSTEM SCHEDULE - ENERGY RECOVERY WHEELS

MARK	ENERGY RECOVERY WHEEL PERFORMANCE: WINTER OPERATION AIR STREAM 1 EAT DB (°F)	AIR STREAM 1 EAT WB (°F)	AIR STREAM 1 LAT DB (°F)	AIR STREAM 1 LAT WB (°F)	AIR STREAM 2 EAT DB (°F)	AIR STREAM 2 EAT WB (°F)	AIR STREAM 2 LAT DB (°F)	AIR STREAM 2 LAT WB (°F)	TOTAL CAPACITY (MBH)	TOTAL EFFECTIVENESS	SUMMER OPERATION AIR STREAM 1 EAT DB (°F)	AIR STREAM 1 EAT WB (°F)	AIR STREAM 1 LAT DB (°F)	AIR STREAM 1 LAT WB (°F)	AIR STREAM 2 EAT DB (°F)	AIR STREAM 2 EAT WB (°F)	AIR STREAM 2 LAT DB (°F)	AIR STREAM 2 LAT WB (°F)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	TOTAL EFFECTIVENESS	APD AIR STREAM 1 (IN WG)	APD AIR STREAM 2 (IN WG)
OA-1																							

REMARKS:

1. ENTIRE UNIT SHALL BE DOUBLE WALL CONSTRUCTION.
2. SUPPLY STAINLESS STEEL IAQ CONDENSATE DRAIN PAN. ENTIRE PAN SHALL BE PITCHED TO OUTLET.
3. PROVIDE WITH HIGH EFFICIENCY OUTSIDE AIR AND EXHAUST AIR FAN MOTORS.
4. PROVIDE OUTSIDE AIR DISCHARGE PLENUM. FACTORY CUT OPENING SAME SIZE AS DISCHARGE AIR DUCT.
5. ACCEPTABLE MANUFACTURERS INCLUDE DAIKIN, TRANE, AND YORK.

WATER SOURCE HEAT PUMP SCHEDULE

MARK	MANUFACTURER	MODEL #	TYPE	NOM. CFM.	ESP (IN WG.)	GPM	WATER PD (FT. H20)	BLOWER MOTOR HP	STAGES	WEIGHT (LB)	DIMENSIONS (IN) LENGTH	WIDTH	HEIGHT	HEATING CAPACITY (MBH)	HEATING EAT (DB) (°F)	HEATING EWT (°F)	HEATING HEAT OF ABSORPTION (MBH)	HEATING COP @ ARI	COOLING TOTAL CAPACITY (MBH)	COOLING SENSIBLE CAPACITY (MBH)	COOLING EAT (DB)	COOLING EAT (WB)	COOLING EWT (°F)	COOLING HEAT OF REJECTION (MBH)	COOLING EER @ ARI	HPS/HPR PIPE SIZE	CONDENSATE PIPE SIZE	ELECTRICAL VOLTAGE	ELECTRICAL HZ	ELECTRICAL PHASE	ELECTRICAL MCA	ELECTRICAL MOCP	REMARKS	COUNT
HHP-012	DAIKIN																										208 V						5
HHP-024	DAIKIN																										280 V						9
HHP-036	DAIKIN																										208 V						5
HHP-048	DAIKIN																										208 V						4

REMARKS:

1. COOLING PERFORMANCE IS BASED ON 80°DB/67°WB ENTERING AIR, 85° E.F.T. AT ARI/ISO STANDARD 13256-1.
2. HEATING PERFORMANCE IS BASED ON 70°F ENTERING AIR, 40°F E.F.T. AT ARI/ISO STANDARD 13256-1.
3. EER AND COP BASED ON AHRI GROUND LOOP CONDITIONS.
4. PROVIDE WITH HIGH EFFICIENCY ECM MOTOR.
5. ACCEPTABLE MANUFACTURERS INCLUDE CLIMATEMASTER, DAIKIN, AND WATER FURNACE.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL #	SERVICE	TYPE	AIRFLOW (CFM)	E.S.P.	DRIVE	RPM	HP	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	ELECTRICAL DATA HZ	MAX DB	REMARKS

REMARKS:

1. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.
2. PROVIDE WITH NEC DISCONNECT.
3. PROVIDE WITH UNIT MOUNTED SPEED CONTROL FOR BALANCING PURPOSES.
4. ACCEPTABLE MANUFACTURERS INCLUDE GREENHECK, LOREN-COOK, TWIN CITY OR EQUAL.

REGISTERS, GRILLES, AND DIFFUSERS SCHEDULE

MARK	MANUFACTURER	MODEL #	TYPE	GRILLE SIZE	DUCT INLET SIZE	DUCT BRANCH SIZE	MAX CFM	P.D.	NOISE CRITERIA	THROW PATTERN	REMARKS
R-05											
S-03											
T-01											

REMARKS:

1. COLOR SHALL BE SELECTED BY ARCHITECT.
2. COORDINATE MOUNTING TYPE (LAY-IN, GYP BOARD, ETC.) WITH ARCHITECTURAL DRAWINGS.
3. PROVIDE AIR ADJUSTER FLAPS/AIR PATTERN DEFLECTORS.
4. SUBMIT THROW DATA WITH SHOP DRAWINGS.
5. PROVIDE WITH FILTER RACK AND 2"X20"X20" MERV 8 PLEATED DISPOSABLE FILTER.
6. ACCEPTABLE MANUFACTURERS INCLUDE PRICE, METALLAIRE, KRUEGAR, OR APPROVED EQUAL.

ELECTRIC UNIT HEATER SCHEDULE

MARK	MANUFACTURER	MODEL #	TYPE	DIMENSIONS (IN) LENGTH	DIMENSIONS (IN) WIDTH	DIMENSIONS (IN) HEIGHT	KW	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	REMARKS

REMARKS:

1. UL LISTED AND NEC COMPLIANT POWER INTEGRAL DISCONNECT MEANS.
2. PROVIDE WITH THERMAL OVERLOAD PROTECTION.
3. PROVIDE INTEGRAL CONCEALED THERMOSTAT.
4. ACCEPTABLE MANUFACTURER'S INCLUDE QMARK, MARKEL, RUSKIN, AND CHROMALOX.

SPLIT SYSTEM INDOOR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL #	TYPE	DIMENSIONS (IN.) LENGTH	DIMENSIONS (IN.) WIDTH	DIMENSIONS (IN.) HEIGHT	WEIGHT (LBS)	AIRFLOW (CFM)
IU-24								

REMARKS:

1. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.
2. HEAT CAPACITY IS BASED ON 70°F DB INDOOR AIR TEMPERATURE. COOLING CAPACITY IS BASED ON 80°F DB/67°F WB INDOOR AIR TEMPERATURE AND 95°F DB AMBIENT.
3. PROVIDE SINGLE POINT ELECTRICAL CONNECTION FOR INDOOR AND OUTDOOR UNIT.
4. PROVIDE LOW AMBIENT COOLING TO 0°F.
5. SIZE ALL REFRIGERANT PIPING PER MANUFACTURER'S INSTRUCTIONS. REVIEW PIPING RUNS WITH MANUFACTURER. PROVIDE ALL COMPONENTS NECESSARY FOR PROPER OPERATION.
6. PROVIDE WITH HAIL GUARD KIT.
7. ACCEPTABLE MANUFACTURER'S INCLUDE DAIKIN, PANASONIC, AND LG.

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL #	DIMENSIONS (IN.) LENGTH	DIMENSIONS (IN.) WIDTH	DIMENSIONS (IN.) HEIGHT	WEIGHT (LBS)	TOTAL COOLING (MBH)	RATED COOLING CAPACITY (MBH)	SENSIBLE COOLING (MBH)	MINIMUM SEER	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	REMARKS

HVAC EXPANSION TANK SCHEDULE

MARK	MANUFACTURER	MODEL #	TYPE	SERVICE	PHYSICAL SIZE (IN) DIAMETER	PHYSICAL SIZE (IN) HEIGHT	CAPACITY TANK VOLUME (GALS)	CAPACITY ACCEPTANCE VOLUME (GALS)	CAPACITY AIR CHARGE PRESSURE	REMARKS
ET-1										

REMARKS:

1. ACCEPTABLE MANUFACTURER'S INCLUDE BELL & GOSSETT, ARMSTRONG, TACO, OR APPROVED EQUAL.

HYDRONIC PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	SERVICE	GPM	PRESSURE (FEET HEAD)	VFD	MINIMUM EFFICIENCY (%)	RPM	ELECTRICAL DATA HZ	ELECTRICAL DATA HP	ELECTRICAL DATA BRAKE HP	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	REMARKS
P-1A															
P-1B															
P-2A															
P-2B															

REMARKS:

1. PROVIDE MOTOR STARTER WITH INTEGRAL PHASE LOSS PROTECTION.
2. PROVIDE UL LISTED NEC COMPLIANT DISCONNECT MEANS.
3. NON-OVERLOADING MOTOR SELECTION.
4. FLOW PERFORMANCE IS BASED ON WATER AS THE WORKING FLUID.
5. PROVIDE WITH MANUFACTURER'S RECOMMENDED FLOOR MOUNTED STAND.
6. ACCEPTABLE MANUFACTURER'S INCLUDE BELL & GOSSETT, ARMSTRONG, TACO, OR APPROVED EQUAL.

VAV/CAV BOX SCHEDULE

MARK	MANUFACTURER	MODEL #	BOX TYPE	DIMENSIONS (IN) LENGTH	DIMENSIONS (IN) WIDTH	DIMENSIONS (IN) HEIGHT	INLET SIZE	INLET STATIC PRESS. @ MAX CFM (" WG)	MIN. CFM	MAX. CFM	PRESSURE INDEPENDENT CONTROLS	LEAKAGE RATE @ 2.0" (%)	REMARKS
VAV-08	NAILOR												

REMARKS:

1. MAXIMUM N.C. VALUE OF 25.
2. PROVIDE DUAL WALL BOX WITH 1" INSULATION.
3. AIR VOLUME BOX SHALL INCLUDE CFM READINGS WITH +/- 5% ACCURACY.
4. FACTORY MOUNTED CONTROLLER PROVIDED BY DDC CONTRACTOR.
5. ACCEPTABLE MANUFACTURERS INCLUDE JOHNSON CONTROLS, NAILOR, AND TITUS.

AIR/DIRT SEPARATOR SCHEDULE

MARK	MANUFACTURER	MODEL #	SERVICE	INLET PIPE SIZE	OUTLET PIPE SIZE	WATER FLOW RATE (GPM)	REMARKS
AS-1							

REMARKS:

1. PROVIDE WITH AUTOMATIC AIR ELIMINATOR.
2. PROVIDE WITHOUT INTEGRAL STRAINER.
3. EQUIPMENT SHALL BE ASME RATED.
4. PROVIDE WITH HIGH POWER SWITCHABLE ON/OFF STYLE MAGNET.
5. ACCEPTABLE MANUFACTURER'S INCLUDE BELL & GOSSETT, ARMSTRONG, TACO, OR APPROVED EQUAL.

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NOT FOR CONSTRUCTION

MECHANICAL SCHEDULES
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

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BG 25-341

Project No: 25015/XMTC25
Drawn By: NRG
Rev'd By: CRK

SHEET RELEASE

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MECHANICAL SCHEDULES

DATE ISSUED:
12/04/2025

REVISIONS		
#	DATE	DESCRIPTION

DESCRIPTION

LIGHTING CONTROLS	MOUNTING HEIGHT	SYMBOL
LIGHT SWITCH: LOW VOLTAGE (WHEN PRESENT, # INDICATES QUANTITY OF CHANNELS)	46"	$ #
EXAM LIGHT SWITCH	46"	$ X
NIGHT LIGHT SWITCH WITH CONSTANTLY ILLUMINATED HANDLE	46"	$ N
SURGICAL LIGHT INTENSITY CONTROL	46"	$ SL
LOW VOLTAGE DIMMER SWITCH (WHEN PRESENT, # INDICATES QUANTITY OF CHANNELS)	46"	$ D#
GRAPHIC TOUCHSCREEN CONTROL STATION	46"	$ G
LINE VOLTAGE SWITCH	46"	$ LV
LINE VOLTAGE THREE-WAY, FOUR-WAY SWITCH	46"	$ LV3 $ LV4
LINE VOLTAGE THREE-WAY, FOUR-WAY DIMMER SWITCH	46"	$ LV3D $ LV4D
KEYED SWITCH	46"	$ K
OCCUPANCY OR VACANCY SENSOR SWITCH	46"	$ OS $ VS
OCCUPANCY OR VACANCY SENSOR SWITCH WITH DIMMING	46"	$ DOS
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	46"	$ U
ILLUMINATED HANDLE LIGHT SWITCH (ILLUMINATED WHEN LOAD IS OFF)	46"	$ IL
PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)	46"	$ PL
TIMER SWITCH	46"	$ T
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CLG	OS VS
OCCUPANCY SENSOR, CORNER MOUNT	CLG	OS
DAYLIGHT SENSOR	AS NOTED	DS
PHOTOCELL	AS NOTED	PC
LIGHTING RELAY	AS NOTED	LR
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAIL)	CLG	ER
POWER OUTLETS		
SIMPLEX RECEPTACLE (WHERE PRESENT, TEXT INDICATES RECEPTACLE TYPE)	1'-6"	
DUPLEX RECEPTACLE	1'-6"	
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH (WHERE PRESENT, TEXT INDICATES RECEPTACLE TYPE)		
'G' INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI)	1'-6"	
DEAD FRONT GFCI DEVICE, LABEL AND INSTALL IN READILY ACCESSIBLE LOCATION		
DUPLEX RECEPTACLE WITH TWO INTEGRAL USB CHARGING PORTS	1'-6"	
USB CHARGING OUTLET WITH FOUR INTEGRAL USB PORTS	1'-6"	
GANG RECEPTACLE IN COMBINATION WITH SWITCH (PROVIDE DIVIDER IF LIGHTING CIRCUIT IS 277V)	46"	C/S
DUPLEX RECEPTACLE, CEILING MOUNTED	CLG	
QUADRUPLEX RECEPTACLE	1'-6"	
JUNCTION BOX, CEILING OR WALL		
VOLTAGE/2 POLE RECEPTACLE, TEXT INDICATES NEMA TYPE	1'-6"	
VOLTAGE/3 POLE RECEPTACLE, TEXT INDICATES NEMA TYPE	1'-6"	
'T' INDICATES SAFETY TYPE, TAMPER RESISTANT OUTLET(S)		
SS INDICATES SURGE SUPPRESION TYPE OUTLET(S)		
GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS	2'-2"	WP
DUPLEX FOR ELECTRIC WATER COOLER: COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET BEHIND COOLER, PROVIDE READILY ACCESSIBLE GFI DEVICE AT 18" ADJACENT TO WATER COOLER		EWC
BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKBOX/WIREMOLD		
CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB UP CONDUIT		
FIRE ALARM		
MAIN CONTROL PANEL CENTRAL PROCESSING UNIT (CPU)	6'-6" TO TOP	FACP
REMOTE L.C.D. FIRE ALARM ANNUNCIATOR	54"	FAA
REMOTE FIRE ALARM ANNUNCIATOR W/ MICROPHONE	54"	FAAM
LOCAL OPERATOR CONSOLE	54"	LOC
SMOKE EVACUATION CONTROL PANEL	54"	SECP
POWER SUPPLY/CONTROL FOR AUDIO/VISUAL DEVICES	46"	NAC
TRANSPONDER CABINET	46"	TRAN
GRAPHICS DISPLAY TERMINAL		GDT
FIRE ALARM CONTROL EXTENDER		EXT
POST INDICATOR VALVE		PIV
PULL STATION : DOUBLE ACTION	46" TO LEVER	F
KEYED, LOCKED PULL STATION : DOUBLE ACTION. STATION SHALL ONLY BE OPERABLE VIA KEY IN POSSESSION OF STAFF.	46" TO LEVER	F K
AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL, CLG	F
AUDIO-ONLY NOTIFICATION APPLIANCE	WALL, CLG	A
VISUAL-ONLY NOTIFICATION APPLIANCE	WALL, CLG	V
BELL / LIGHT	80"	BL
BELL ONLY	80"	B
PHOTO-ELECTRIC SMOKE DETECTOR	CLG	SD
PHOTO-ELECTRIC SMOKE DETECTOR FOR PATIENT ROOM MONITORING (SEE RISER)	CLG	SD P
PROJECTED BEAM SMOKE DETECTOR; EMITTER (BE) AND RECEIVER (BR)		BE BR
HEAT DETECTOR	CLG	HD
CARBON MONOXIDE DUCT DETECTOR	ABOVE CEILING	CD
CARBON MONOXIDE ALARM: SINGLE STATION W/SOUNDER BASE	CLG	CM
CARBON MONOXIDE AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL	F CM
DOOR HOLDER : WALL TYPE	WALL	DH
DOOR HOLDER : CLOSURE TYPE	ABV DOOR	DH C
DUCT SMOKE DETECTOR	ABV CLG	DD
CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE MODULE		FS
CONNECTION TO SPRINKLER TAMPER SWITCH WITH ADDRESSABLE MODULE		TS
PRESSURE SWITCH		PS
ISOLATION MODULE	WALL	I
ZONE ADDRESSABLE MODULE		Z
H.V.A.C. SMOKE DAMPER CONNECTION		SM
FLUSH MOUNTED REMOTE ALARM INDICATING STATION/TEST SWITCH	7'-6"	RI
FIREMAN'S PHONE JACK	4'-6"	FP
FIREMAN'S KNOX BOX CONNECTION		KB
ADDRESSABLE RELAY MODULE		R
INDICATES VANDAL-PROOF POLYCARBONATE COVER, VANDAL PROOF COVERS SHALL BE UL LISTED FOR USE WITH THE SPECIFIC DEVICE THEY ARE PROTECTING		VR
INDICATES CHIME AUDIBLE NOTIFICATION		CH
DEVICE USED FOR ELEVATOR CONTROL		EL

DESCRIPTION

LIGHTING FIXTURES AND EQUIPMENT	MOUNTING HEIGHT	SYMBOL
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE OR SUSPENDED CEILING FIXTURE		
RECESSED CEILING FIXTURE		
POLE MOUNTED AREA LIGHT WITH CONCRETE BASE		
LIGHTED BOLLARD WITH CONCRETE BASE		
EMERGENCY BATTERY WALL-PACK		
WALL MOUNT FIXTURE		
TRACK COMPLETE WITH POWER SUPPLIES AND FIXTURE HEADS		
FLOODLIGHT		
EXIT LIGHT (CEILING, END, WALL MOUNT) WITH OR WITHOUT DIRECTIONAL ARROWS, WITH OR WITHOUT EGRESS HEADS		
STRIP FIXTURE		
PARALLEL-HATCHING INDICATES LIGHT IS EMERGENCY LIFE SAFETY W/ BATTERY		
REMOTE LIGHT FIXTURE DRIVER	AS NOTED	RD
REMOTE BATTERY BACKUP	AS NOTED	RB
CENTRAL BATTERY INVERTER	AS NOTED	INV
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS: HASHMARKS INDICATE # OF CONDUCTORS.		PHASE NEUTRAL GROUND
NON-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED	$ M
MOMENTARY CONTACT SWITCH	46"	$ MC
HAND-OFF-AUTO 3-POSTION SWITCH	46"	$ HOA
DISCONNECT SWITCH	5'-0"	
MAGNETIC STARTER	5'-0"	
MAGNETIC COMBINATION STARTER	5'-0"	
VARIABLE FREQUENCY DRIVE	5'-0"	
ENCLOSED FLUSH MTD. CIRCUIT BREAKER	5'-0"	
MUSHROOM SWITCH	46"	
PUSHBUTTON STATION WITH 1, 2, OR 3 BUTTONS.	46"	
PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP	
TRANSFORMER	AS NOTED	
EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		
KITCHEN EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE		
PLUMBING FIXTURE SOLENOID VALVE/ELECTRIC EYE SENSOR CONNECTION. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER.		
PLUMBING FIXTURE ELECTRIC EYE TRANSFORMER CONNECTION. TRANSFORMER SHALL BE 120V-24V. MOUNT ABOVE SUSPENDED ACCESSIBLE CEILING IN J-BOX. PROVIDE ADDITIONAL TRANSFORMERS OF SAME TYPE AS/IF NEEDED		
PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL SPECIFICATIONS)	VERIFY WITH ARCHITECT	
SURGE PROTECTION DEVICE (SURFACE OR FLUSH MOUNTED)		SPD
GENERATOR ANNUNCIATOR PANEL (SURFACE OR FLUSH MOUNTED) - SEE SPECIFICATIONS	46"	GEN-A
CONDUIT UP		
CONDUIT DOWN		
FLEXIBLE CONDUIT		
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	
BUS DUCT, AMPERAGES AS NOTED	AS SHOWN	
WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN	
TRENCH DUCT (SIZE AS NOTED)	AS SHOWN	
WIRE BASKET CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN	
SOLID BOTTOM CABLE TRAY, SIZE AS NOTED	AS SHOWN	
J-HOOK PATHWAY		
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		EQUIP-#
MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)		EQUIP-#
TAGGED NOTE		
REVISION TAG		
PANEL FURNITURE		
PANEL FURNITURE DUPLEX RECEPTACLE. PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNER'S PANEL FURNITURE VENDOR		
PANEL FURNITURE QUADRUPLEX RECEPTACLE. PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNER'S PANEL FURNITURE VENDOR		
PANEL FURNITURE DATA/VOICE OUTLET. PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNER'S PANEL FURNITURE VENDOR		2D
POWER CONNECTION TO PANEL FURNITURE, PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE, PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR	1'-6"	FP
COMBINATION POWER AND LOW VOLTAGE CONNECTION TO PANEL FURNITURE, PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE, PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR	1'-6"	FF
ABBREVIATIONS		
UNLESS OTHERWISE NOTED		UON
OWNER FURNISHED CONTRACTOR INSTALLED		OFCI
OWNER FURNISHED OWNER INSTALLED		OFOI
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFCI
CONTRACTOR FURNISHED OWNER INSTALLED		CFOI
INDICATES EMERGENCY POWER		EM
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		WG
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.		WP
EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION.		XP

DESCRIPTION

SPECIAL OUTLETS	MOUNTING HEIGHT	SYMBOL
FLOORBOX, AS SCHEDULED	FLOOR	FB#
POKE-THRU, AS SCHEDULED	FLOOR	P#
WALLBOX, AS SCHEDULED	WALL	WB#
AUDIO/VISUAL SYSTEM OUTLET WITH DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	AV
COMBINATION POWER AND DATA OUTLET LOCATION, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	
COMBINATION POWER AND DATA OUTLET LOCATION, GFCI DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	
OVERHEAD PROJECTOR: PROVIDE DUPLEX RECEPTACLE, ONE DATA, HDMI, 3.5mm AUDIO, AND VGA OUTLET ON (3) PLATES	CLG	
SPECIAL VIDEO SYSTEM SIGNAL INPUT		-NA-
SURFACE PLUG-MOLD		
SURFACE WIRE-MOLD		
POWER POLE AS NOTED		PP
LIGHTNING PROTECTION		
AIR TERMINAL: LENGTH, MATERIAL, AND TYPE OF TIP PER SPECIFICATIONS.	REFER TO DETAILS	
LIGHTNING PROTECTION SYSTEM COPPER GROUND ROD: LENGTH, DIAMETER PER SPECIFICATIONS.	REFER TO DETAILS	
LIGHTINING PROTECTION SYSTEM CONDUCTOR: TYPE AND MATERIAL PER SPECIFICATIONS.	REFER TO DETAILS	
TELEVISION		
TELEVISION HEADEND (SPLITTERS/AMPLIFIERS/DISTRIBUTION)	46"	TV
TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE, COORDINATE LOCATION WITH WALL BRACKET WHERE APPLICABLE	7'-0"	T
OVERHEAD PAGING		
PAGING SPEAKER: CEILING	CLG	S
PAGING SPEAKER W/ VOLUME CONTROL	CLG	SV
PAGING SPEAKER: WALL	8'-0"	S
RECESSED WALL MOUNTED PAGING SPEAKER DUKANE 5A606 SPEAKER. ATLAS 417-8WD	8'-0"	RS
VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER. QUAM VP1	SEE FLOOR PLANS	VS V
EXTERIOR VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER, SHALL BE PAINTED COLOR SELECTED BY ARCHITECT/OWNER. QUAM VP6	SEE FLOOR PLANS	S WP
WALL MOUNTED PAGING HORN	9'-0"	H
CALL INITIATION STATION	46"	C
WALL VOLUME CONTROL	46"	V
PAGING MICROPHONE	1'-6"	M
PANIC BUTTON (MOUNTING PER DRAWINGS)	46", UNDER DESK	PB PB
NOTIFICATION LIGHT (MOUNTING PER DRAWINGS)	7'-6", CLG	NL PB
LCD WALL DISPLAY		LCD
PAGING SYSTEM HEADEND	46"	PA
CLOCKS		
TYPICAL CLOCK MOUNTING HEIGHTS: FOR CEILING HEIGHTS < 9'-8" : MOUNT CENTER OF BACKBOX AT 8" BELOW CEILING. FOR CEILING HEIGHTS >= 9'-8" : MOUNT CENTER OF BACKBOX AT 9'-0" AFF.		
ANALOG CLOCK: SINGLE FACE	SEE ABOVE	
ANALOG CLOCK: DUAL FACE	SEE ABOVE	
DIGITAL CLOCK: SINGLE FACE	SEE ABOVE	DC
DIGITAL CLOCK: DUAL FACE	SEE ABOVE	2DC
CLOCK SYSTEM HEAD END	84"	CLOCK
AV SYSTEMS		
PROJECTOR WITH MOUNT (CEILING OR WALL AS INDICATED)	REFER TO DRAWINGS	P P
LOCAL SOUND SPEAKER: CEILING	CLG	LS
WIRELESS MICROPHONE ANTENNA	CLG	MA
LOCAL SOUND SPEAKER: WALL	REFER TO SPECS.	LS
MICROPHONE INPUT: # INDICATES NUMBER OF INPUTS (MOUNTING PER DRAWINGS)	1'-6", CLG	M M
WIRELESS MICROPHONE ANTENNA, WALL MOUNT	REFER TO SPECS.	MA
AV INPUT (OR OUTPUT) WALL PLATE. REFER TO DRAWINGS AND SPECIFICATIONS FOR TYPE AND QUANTITY OF CONNECTIONS.	1'-6"	AV
BLUETOOTH INPUT MODULE	1'-6"	BT
AV TOUCHSCREEN CONTROL STATION	46"	CS
LOCAL SOUND SYSTEM HEADEND	REFER TO SPECS.	LS
LINETYPE LEGEND		
	EXISTING	
	DEMOLISHED	
	NEW	

DESCRIPTION

SECURITY PANIC ALARM	MOUNTING HEIGHT	SYMBOL
PANIC ALARM BUTTON	SEE DRAWINGS	PB
PANIC ALARM ANNUNCIATOR	46"	PA
PANIC ALARM STROBE - REFER TO SPECIFICATIONS FOR LENS AND HOUSING COLOR	SAME AS FIRE ALARM	PS PS
PANIC ALARM POWER SUPPLY CABINET	5'-0"	SEC-P
SECURITY INTERCOM		
AUDIO/VIDEO INTERCOM STATION: MASTER WITH SELECTIVE DOOR CONTROLS, POWER SUPPLIES & DOOR RELAY CONTACTS AS REQUIRED FOR OPERATION OF ANY DOOR IN THE SYSTEM AND VIEWING OF ANY AUDIO/VIDEO INTERCOM REMOTE ON THE SYSTEM. AIPHONE#IX-MV W/DESK STAND - COLOR BY ARCHITECT.	DESK MOUNT	IM
AUDIO/VIDEO INTERCOM STATION: REMOTE WITH FLUSH-MTD S.S. ENCLOSURE. AIPHONE #IX-DVF.	46"	IR
SECURITY ACCESS CONTROL		
DOOR ALARM	DOOR FRAME	DA DA
DOOR POSITION SWITCH	DOOR FRAME	DP
MAGNETIC LOCK(S)	ABV DOOR	ML
ELECTRIC LOCKSET	AT LATCH	EL
DOOR DELAYED EGRESS/ELECTRIFIED PANIC MECHANISM	ABV DOOR	DE
ELECTRIC STRIKE	AT LATCH	ES
AUTOMATIC DOOR CONNECTION (MAY ALSO HAVE ELECTRIC STRIKE/MAG-LOCK/ELECTRIFIED PANIC CONNECTION - SEE ARCHITECTURAL HARDWARE SPECIFICATIONS)	CLG	AD
DOOR RELEASE PUSH-PLATE / INFRA-RED OPERATOR STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	PP
DOOR RELEASE KEYSWITCH STATION	6'-0"	KS
DOOR RELEASE KEYPAD STATION	46"	KP
DOOR RELEASE PROXIMITY READER STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	PR
SAME AS "PR" EXCEPT MULLION MOUNT	46"	PR M
MOTION SENSOR DOOR CONTROL	CLG	MS MS
PUSH-TO-EXIT BUTTON	46"	PE
REMOTE DOOR RELEASE PUSH-BUTTON	8" ACT	RR
RECESSED JUNCTION BOX	SEE DRAWINGS	JB JB
ACCESS CONTROL HEADEND	5'-0"	SEC-A
SECURITY CCTV VIDEO SURVEILLANCE		
CCTV CAMERA: CEILING MOUNT DOME (TEXT INDICATES TYPE) REFER TO SCHEDULE FOR TYPES	CLG	###
CCTV CAMERA: WALL MOUNT DOME (TEXT INDICATES TYPE) REFER TO SCHEDULE FOR TYPES	WALL	###
INDICATES EXTERIOR CAMERA RATED FOR CONDITIONS, WET LOCATION LISTED, WITH AUXILLARY HEATER		WP
INDICATES CAMERA WITH PAN/TILT/ZOOM FUNCTION		PTZ
CCTV HEAD END	SEE DRAWINGS	SEC-C
SECURITY INTRUSION DETECTION		
MOTION DETECTOR (WALL OR CEILING MOUNT)	CLG	MD MD
GLASS BREAK SENSOR (WALL OR CEILING MOUNT)	CLG	GB GB
LOCAL SOUNDER	SEE DRAWINGS	LS LS
INTRUSION DETECTION KEYPAD CONTROLLER	46"	ID
SECURITY SYSTEM HEAD END	5'-0"	SEC
DATA / VOICE		
DATA OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS. NO NUMBER INDICATES 1 JACK.	1'-6"	2D
VOICE OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF VOICE JACKS. NO NUMBER INDICATES 1 JACK.	1'-6"	
COMBINATION OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA/VOICE JACKS	1'-6"	2D/1V
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH		
OUTLET (VOICE ONLY) : PAYPHONE TYPE	AS REQ'D.	PAY
DATA RACK: TWO POST. REFER TO COMMUNICATIONS RISERS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.		
DATA RACK: FOUR POST. REFER TO COMMUNICATIONS RISERS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.		
TELECOMMUNICATIONS SYSTEM BACKBOARD. PROVIDE 96"H x 3/4"D FIRE-RETARDENT PLYWOOD BACKBOARD WITH TWO (2) COATS OF NON-CONDUCTIVE, FIRE-RETARDANT LIGHT GRAY PAINT, #3/0 TO GROUND BAR AT MAIN SERVICE SWITCHBOARD, 30-PT GROUND BAR AND A 6'-0", #3 AWG PIGTAIL AT BACKBOARD. INSTALL BOARD AT 2' AFF. (LENGTH OF BOARD AS INDICATED ON FLOOR PLAN)		
WIRELESS ACCESS POINT OUTLET WITH PROVISIONS FOR (2 DATA OUTLET FOR ANTENNA. PROVIDE A COMPLETE DATA OUTLET WITH FACEPLATE ABOVE CEILING, MOUNTED AT AN ACCESSIBLE HEIGHT NO MORE THAN 24" ABOVE CEILING. AT EACH OUTLET, PROVIDE A 20' COIL OF CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH THE OWNER AND ADJUST OUTLET LOCATIONS AT SUBSTANTIAL COMPLETION TO ACCOMMODATE OWNER'S WAP LOCATIONS.	CEILING WALL	WAP WAP

ELECTRICAL GENERAL NOTES

A EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.

B ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR 'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.

C WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72, INTERNATIONAL BUILDING CODES, ETC.

D CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

E ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER 'S DISCRETION.

F INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER.

G ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.

H WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.

I DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.

J OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).

K MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UON. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UON.

L INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER 'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.

M DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.

N THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.

O ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER

P ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.

Q UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT.

R WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.

S THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.).

T COORDINATE WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF ADDITIONAL RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC.

U CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2'X4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION.

V ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.

W CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.

X PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT

Y DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

Z THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.

AA WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.

AB WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.

AC COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).

AD ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.

AE ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INSOFAR AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.

AF NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.

AG ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

AH ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.

AI WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED.

AJ REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND EQUIPMENT. IF IN DOUBT, CONTACT ENGINEER FOR DIRECTION PRIOR TO ROUGH IN.

AK FLUSH OR PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.

AL AS APPLICABLE, REFER TO ARCHITECTURAL PHASING PLANS AND PHASING BOUNDARIES ON THESE DRAWINGS FOR SEQUENCING OF WORK, FULL EXTENT OF AREAS INVOLVED, EXTENT OF CEILING WORK, ETC. PROVIDE TEMPORARY CONNECTIONS FOR CIRCUITS AND WORK AS REQUIRED TO MAINTAIN SEQUENCE OF THE WORK FROM PHASE TO PHASE.

AM THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK.

AN ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.

AO INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.

AP WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE SOUND-INSULATING PUTTY AROUND BOXES AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM.

AQ JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36 " ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.

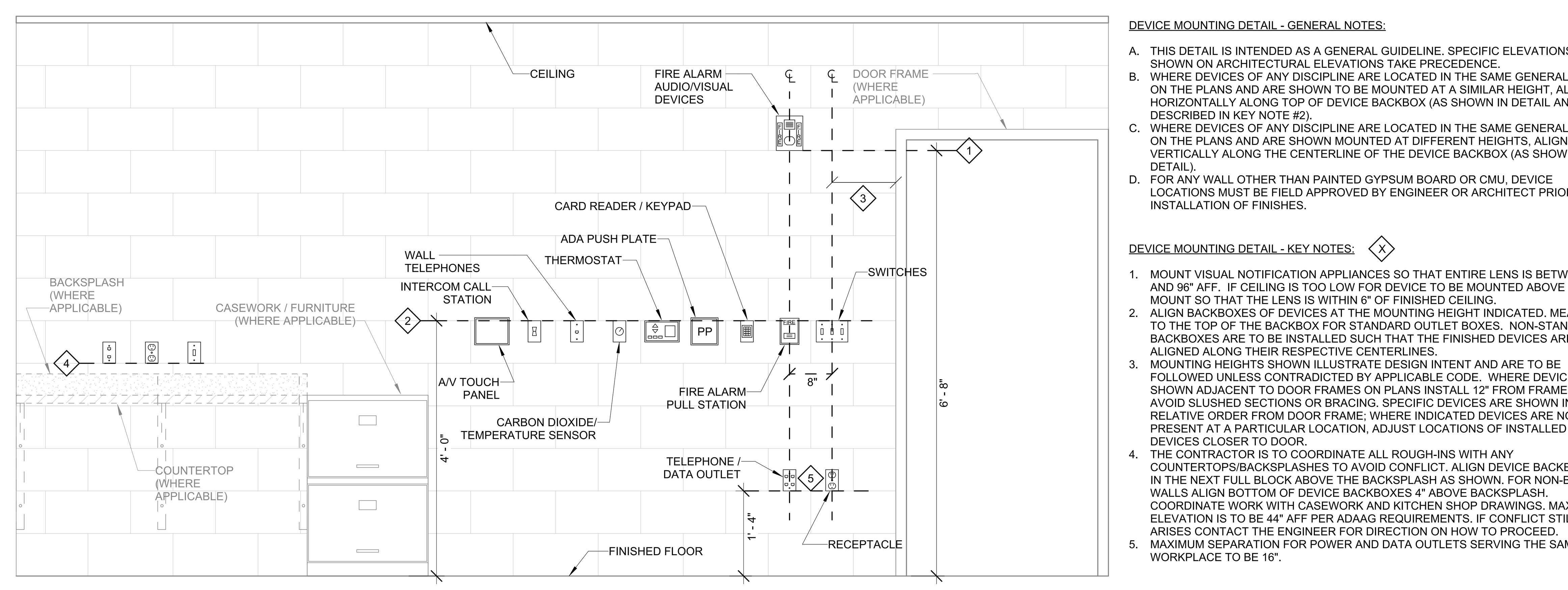
AR ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.

AS DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.

AT NOISY WORK, WORK OUTSIDE CONSTRUCTION BARRIERS, WORK IN OCCUPIED AREAS, ETC. SHALL BE PERFORMED AFTER HOURS OR ON WEEKENDS. COORDINATE EXACT SCHEDULING WITH FACILITY PRIOR TO CONSTRUCTION.

AU ALL ITEMS HAVING KEYED LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYING SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.

AV REFER TO ARCHITECTURAL PLANS FOR PHASING REQUIREMENTS. WORK SHALL BE COMPLETED IN PHASES PER THE PHASING PLAN AND AS COORDINATED WITH OWNER AND GENERAL CONTRACTOR. PROVIDE ALL REQUIRED INCREMENTAL INSPECTIONS, CERTIFICATIONS, ETC. AND ALL TEMPORARY SERVICES AS REQUIRED BY OWNER TO ACCOMPLISH THE PHASING PLAN.



1 TYPICAL WALL DEVICE MOUNTING DETAIL
SCALE: NONE

DEVICE MOUNTING DETAIL - GENERAL NOTES:

A. THIS DETAIL IS INTENDED AS A GENERAL GUIDELINE. SPECIFIC ELEVATIONS SHOWN ON ARCHITECTURAL ELEVATIONS TAKE PRECEDENCE.
B. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN TO BE MOUNTED AT A SIMILAR HEIGHT, ALIGN HORIZONTALLY ALONG TOP OF DEVICE BACKBOX (AS SHOWN IN DETAIL AND DESCRIBED IN KEY NOTE #2).
C. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN MOUNTED AT DIFFERENT HEIGHTS, ALIGN VERTICALLY ALONG THE CENTERLINE OF THE DEVICE BACKBOX (AS SHOWN IN DETAIL).
D. FOR ANY WALL OTHER THAN PAINTED GYPSUM BOARD OR CMU, DEVICE LOCATIONS MUST BE FIELD APPROVED BY ENGINEER OR ARCHITECT PRIOR TO INSTALLATION OF FINISHES.

DEVICE MOUNTING DETAIL - KEY NOTES: (X)

1. MOUNT VISUAL NOTIFICATION APPLIANCES SO THAT ENTIRE LENS IS BETWEEN 80" AND 96" AFF. IF CEILING IS TOO LOW FOR DEVICE TO BE MOUNTED ABOVE 80", MOUNT SO THAT THE LENS IS WITHIN 6" OF FINISHED CEILING.
2. ALIGN BACKBOXES OF DEVICES AT THE MOUNTING HEIGHT INDICATED. MEASURE TO THE TOP OF THE BACKBOX FOR STANDARD OUTLET BOXES. NON-STANDARD BACKBOXES ARE TO BE INSTALLED SUCH THAT THE FINISHED DEVICES ARE ALIGNED ALONG THEIR RESPECTIVE CENTERLINES.
3. MOUNTING HEIGHTS SHOWN ILLUSTRATE DESIGN INTENT AND ARE TO BE FOLLOWED UNLESS CONTRADICTED BY APPLICABLE CODE. WHERE DEVICES ARE SHOWN ADJACENT TO DOOR FRAMES ON PLANS INSTALL 12" FROM FRAME TO AVOID SLUSHED SECTIONS OR BRACING. SPECIFIC DEVICES ARE SHOWN IN RELATIVE ORDER FROM DOOR FRAME; WHERE INDICATED DEVICES ARE NOT PRESENT AT A PARTICULAR LOCATION, ADJUST LOCATIONS OF INSTALLED DEVICES CLOSER TO DOOR.
4. THE CONTRACTOR IS TO COORDINATE ALL ROUGH-INS WITH ANY COUNTERTOPS/BACKSPLASHES TO AVOID CONFLICT. ALIGN DEVICE BACKBOXES IN THE NEXT FULL BLOCK ABOVE THE BACKSPLASH AS SHOWN. FOR NON-BLOCK WALLS ALIGN BOTTOM OF DEVICE BACKBOXES 4" ABOVE BACKSPLASH. COORDINATE WORK WITH CASEWORK AND KITCHEN SHOP DRAWINGS. MAXIMUM ELEVATION IS TO BE 44" AFF PER ADAAG REQUIREMENTS. IF CONFLICT STILL ARISES CONTACT THE ENGINEER FOR DIRECTION ON HOW TO PROCEED.
5. MAXIMUM SEPARATION FOR POWER AND DATA OUTLETS SERVING THE SAME WORKPLACE TO BE 16".

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ELECTRICAL LEGEND
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FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

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CMTA, Inc.
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Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG

Project No: 25015/XMTC25
Drawn By: TSW
Rev'd By: GMB

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ELECTRICAL LEGEND

DATE ISSUED:
12/04/2025

REVISIONS

#	DATE	DESCRIPTION

ELECTRICAL DEMOLITION NOTES

A DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND SOLID HALFTONE LINES INDICATE EXISTING ITEMS TO REMAIN.

B THE CONTRACTOR SHALL MAINTIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE- DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.

C LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.

D REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).

E COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.

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K CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.

L DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED. REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.

M ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.

N CONTRACTOR TO VERIFY THAT THERE ARE NO ELECTRICAL CIRCUITS IN CHASES BEING REMOVED UNDER DEMOLITION WHICH REMAIN IN SERVICE AND CANNOT BE REMOVED. SHOULD SUCH CIRCUITS BE ENCOUNTERED, THE CONTRACTOR IS TO REROUTE AND RECONNECT AS REQUIRED TO MAINTAIN SERVICE.

TAGGED NOTES

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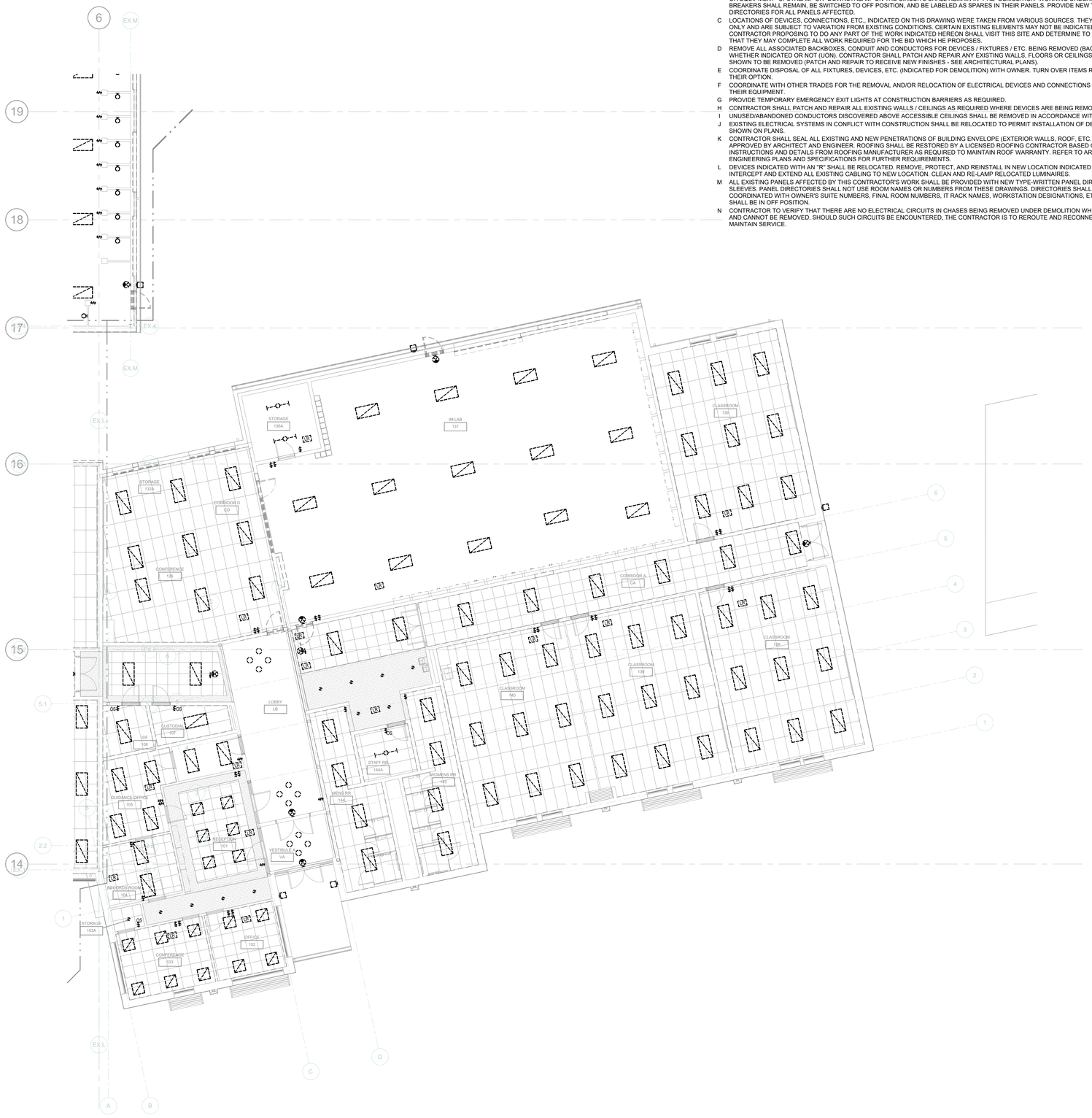

1 E2.1 **LIGHTING - FIRST FLOOR AREA A DEMOLITION**
1/8" = 1'-0"

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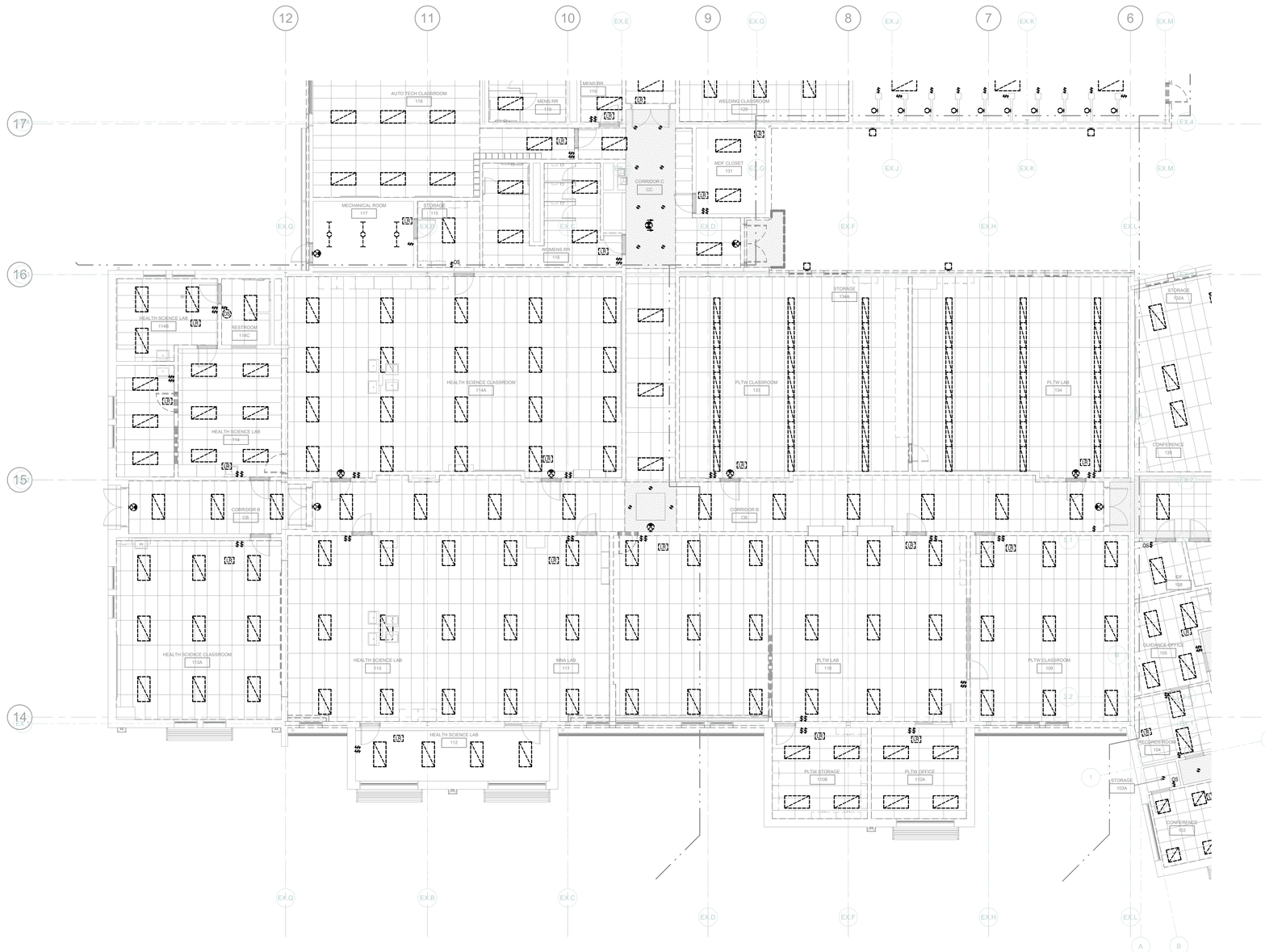

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MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG

Project No: 25015/XMTC25
Drawn By: TSW
Rev'd By: GMB

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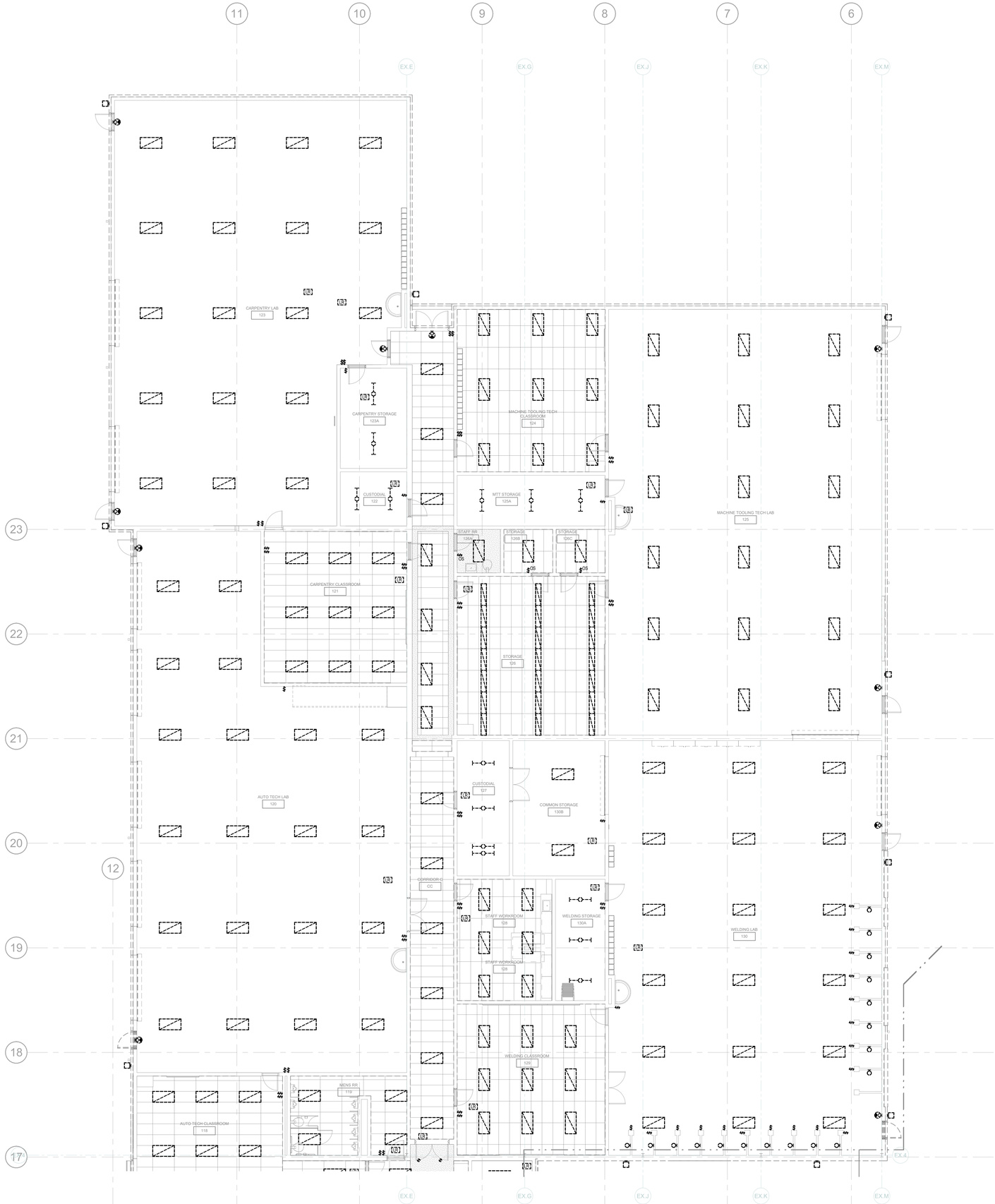
LIGHTING - FIRST FLOOR AREA B DEMOLITION
DATE ISSUED:
12/04/2025

REVISIONS

#	DATE	DESCRIPTION



1 E2.3 **LIGHTING - FIRST FLOOR AREA C DEMOLITION**
1/8" = 1'-0"

TAGGED NOTES

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ELECTRICAL DEMOLITION NOTES

A DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND SOLID HALFTONE LINES INDICATE EXISTING ITEMS TO REMAIN.

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C LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.

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rosstarrant architects
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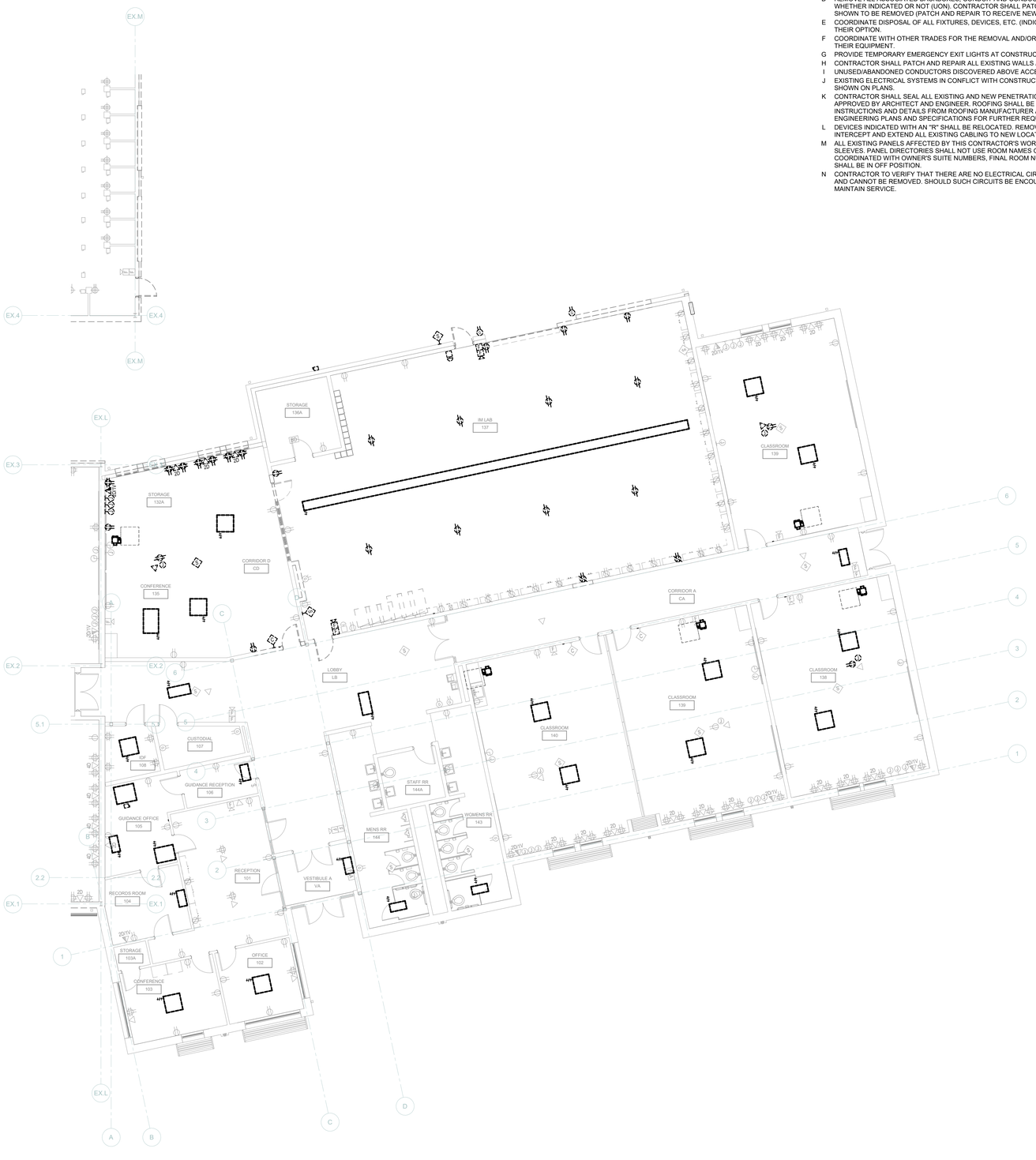

POWER/SYSTEMS - FIRST FLOOR AREA A DEMOLITION

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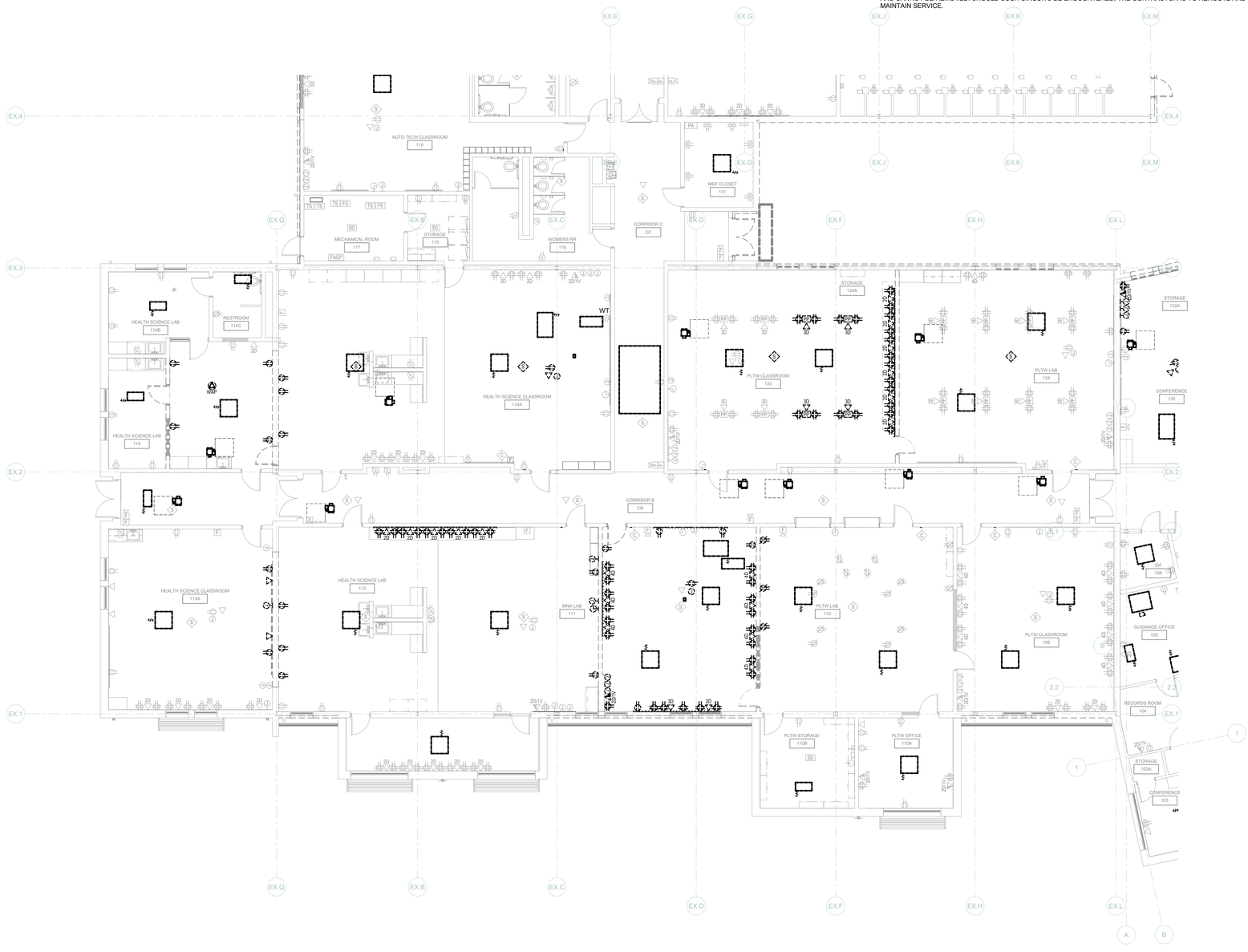

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LIGHTING - FIRST FLOOR PLAN - AREA A

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ELECTRICAL LIGHTING NOTES

A REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.

E LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.

F LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.

G ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.

H RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.

I CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

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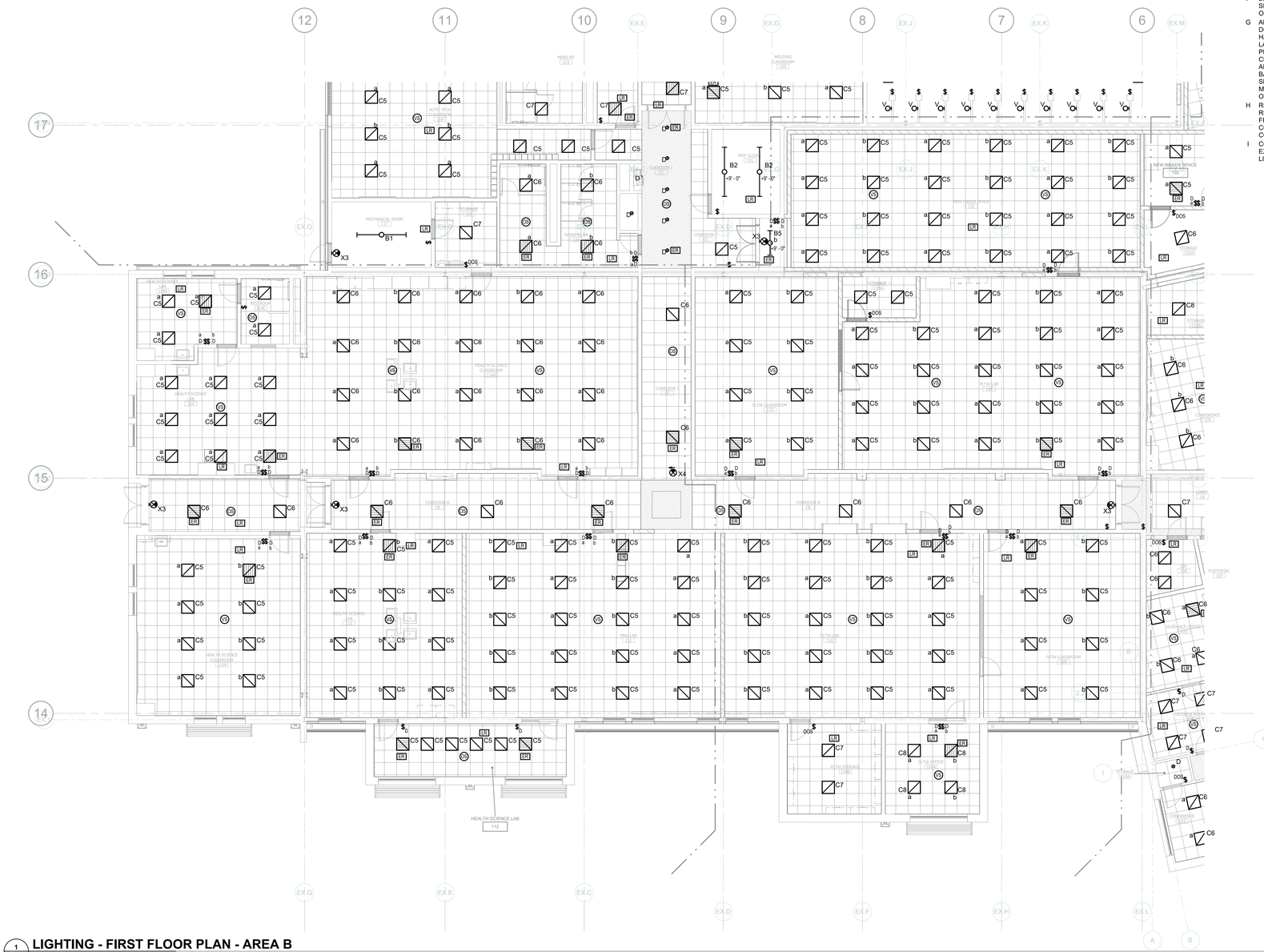

1 E4.2 **LIGHTING - FIRST FLOOR PLAN - AREA B**
1/8" = 1'-0"

ELECTRICAL LIGHTING NOTES

A REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT, SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.

E LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.

F LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.

G ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.

H RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.

I CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

TAGGED NOTES

(##)

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

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LIGHTING - FIRST FLOOR AREA B

MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
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Structural Engineer:
Structural Design Group, Inc.
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Project No: 25015/XMTC25
Drawn By: TSW
Rev'd By: GMB

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LIGHTING - FIRST FLOOR AREA B

DATE ISSUED:
12/04/2025

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TAGGED NOTES

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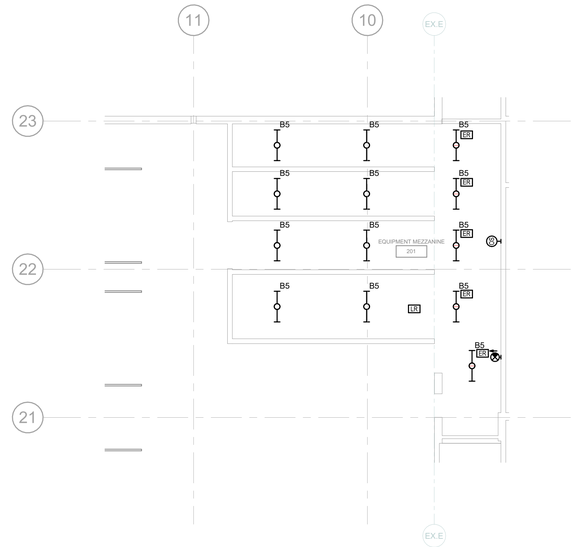
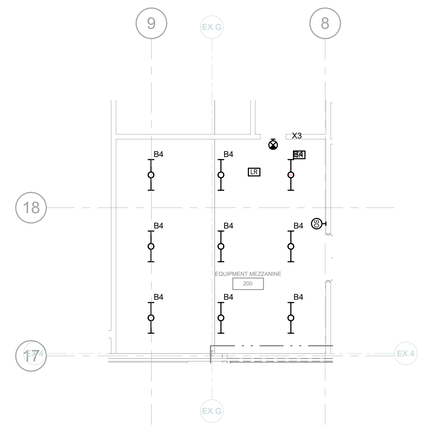
1 E4.3 **LIGHTING - FIRST FLOOR PLAN - AREA C**
1/8" = 1'-0"



2 E4.3 **LIGHTING - AUTO PLATFORM RCP**
1/8" = 1'-0"



3 E4.3 **LIGHTING - MEZZANINE RCP**
1/8" = 1'-0"

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LIGHTING - FIRST FLOOR AREA C
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
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Lexington, KY Office
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Structural Engineer:
Structural Design Group, Inc.
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Project No: 25015/XMTC25
Drawn By: TSW
Rev'd By: GMB

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LIGHTING - FIRST FLOOR AREA C

DATE ISSUED:
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REVISIONS

#	DATE	DESCRIPTION

ELEC - LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	BASIS OF DESIGN	EQUALS	LAMPS / CCT	DRIVER	MINIMUM LUMENS	MOUNTING	MAXIMUM WATTAGE	VOLTAGE	REMARKS
A1	8' LOW BAY	LITHONIA MLX - MLX L8 20000LMHE 90CRI 35K WGDL MVOLT		90CRI/3500K	LED	20000	SUSPENDED	126	277	
A2	8' LOW BAY	LITHONIA MLX - MLX L8 15000LMHE 90CRI 35K WGDL MVOLT		90CRI/3500K	LED	15000	SUSPENDED	91	277	
A3	4' LOW BAY	LITHONIA MLX - MLX L8 10000LMHE 90CRI 35K WGDL MVOLT		90CRI/3500K	LED	5000	SUSPENDED	58	277	
B1	8' LED LINEAR	LITHONIA CLX - L96 14000LM HEF FDL MVOLT 35K 90CRI		90CRI/3500K	LED	14000	CEILING	88	277	SUSPENDED B1 FIXTURES SHALL INCLUDE A MOUNTING HEIGHT ON LIGHTING DRAWINGS.
B2	8' LED LINEAR	LITHONIA CLX - L96 10000LM HEF FDL MVOLT 35K 90CRI		90CRI/3500K	LED	10000	CEILING	64	277	SUSPENDED B2 FIXTURES SHALL INCLUDE A MOUNTING HEIGHT ON LIGHTING DRAWINGS.
B3	8' LED LINEAR	LITHONIA CLX - L96 8000LM HEF FDL MVOLT 35K 90CRI		90CRI/3500K	LED	8000	CEILING	51	277	SUSPENDED B3 FIXTURES SHALL INCLUDE A MOUNTING HEIGHT ON LIGHTING DRAWINGS.
B3W	8' LED LINEAR	LITHONIA CLX - L96 8000LM HEF FDL MVOLT 35K 90CRI		90CRI/3500K	LED	8000	WALL	51	277	
B4	4' LED LINEAR	LITHONIA CLX - L48 7000LM HEF FDL MVOLT 35K 90CRI		90CRI/3500K	LED	7000	CEILING	44	277	SUSPENDED B4 FIXTURES SHALL INCLUDE A MOUNTING HEIGHT ON LIGHTING DRAWINGS.
B5	4' LED LINEAR	LITHONIA CLX - L48 5000LM HEF FDL MVOLT 35K 90CRI		90CRI/3500K	LED	5000	CEILING	32	277	SUSPENDED B5 FIXTURES SHALL INCLUDE A MOUNTING HEIGHT ON LIGHTING DRAWINGS.
C1	2X4 TROFFER	LITHONIA 2VTL4 - 2VTL4 72L ADP MVOLT LP935		90CRI/3500K	LED	7200	RECESSED	59	277	
C3	2X4 TROFFER	LITHONIA 2VTL4 - 2VTL4 48L ADP MVOLT LP935		90CRI/3500K	LED	4800	RECESSED	38	277	
C4	2X4 TROFFER	LITHONIA 2VTL4 - 2VTL4 40L ADP MVOLT LP935		90CRI/3500K	LED	4000	RECESSED	31	277	
C5	2X2 TROFFER	LITHONIA 2VTL2 - 2VTL2 72L ADP MVOLT LP935		90CRI/3500K	LED	7200	RECESSED	56	277	
C6	2X2 TROFFER	LITHONIA 2VTL2 - 2VTL2 60L ADP MVOLT LP935		90CRI/3500K	LED	6000	RECESSED	49	277	
C7	2X2 TROFFER	LITHONIA 2VTL2 - 2VTL2 48L ADP MVOLT LP935		90CRI/3500K	LED	4800	RECESSED	38	277	
C8	2X2 TROFFER	LITHONIA 2VTL2 - 2VTL2 33L ADP MVOLT LP935		90CRI/3500K	LED	3300	RECESSED	26	277	
D	6" DOWNLIGHT	LITHONIA LDN4CYL - 35/15 LO4AR LD MVOLT		90CRI/3500K	LED	1500	RECESSED	18	277	
E	ROUND HIGH BAY	LITHONIA JCBL - 24000LM ACFR ACRFGL MVOLT 35K 90CRI PM		90CRI/3500K	LED	24000	SUSPENDED	160	277	
U	LED SITE LIGHT	LITHONIA RSX2 - RSX2 LED P3 40K R3 MVOLT		4000K	LED	20000	4" 20' STEEL POLE	150	277	
V	VAPOR TIGHT JAR LIGHT	LITHONIA UTILITY VAPOR TIGHTS - VW150IM12		80CRI/3500K	LED	6000	WALL	150	120	
W	EXTERIOR WALL PACK	LITHONIA WDGE2 - WDGE2 LED P4 35K 80CRI TFTM MVOLT		3500K	LED	4200	WALL	35	277	
X1	SINGLE FACE EXIT SIGN	LITHONIA LQM - LQM S W 3 G 120/277 M6			LED		CEILING	2	277	
X2	DOUBLE FACE EXIT SIGN	LITHONIA LQM - LQM S W 3 G 120/277 M6			LED		CEILING	2	277	
X3	WALL MOUNTED EXIT SIGN	LITHONIA LQM - LQM S W 3 G 120/277 M6			LED		WALL	2	277	
X4	SINGLE FACE EXIT SIGN W/ ARROW	LITHONIA LQM - LQM S W 3 G 120/277 M6			LED		CEILING	2	277	
X5	SINGLE FACE EXIT SIGN (END MOUNT)	LITHONIA LQM - LQM S W 3 G 120/277 M6			LED		WALL	2	277	

rosstarrant architects
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LIGHT FIXTURE SCHEDULE

MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG

Project No: 25015/XMTC25
Drawn By: TSW
Rev'd By: GMB

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LIGHT FIXTURE SCHEDULE

DATE ISSUED:
12/04/2025

REVISIONS

#	DATE	DESCRIPTION

1 POWER - FIRST FLOOR AREA A

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16' 24' 32'

ELECTRICAL POWER NOTES

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TAGGED NOTES

(##)

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101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

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POWER - FIRST FLOOR AREA A

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:

MARION COUNTY BOARD OF EDUCATION

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POWER - FIRST FLOOR AREA A

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E1 ROOFTOP EQUIPMENT

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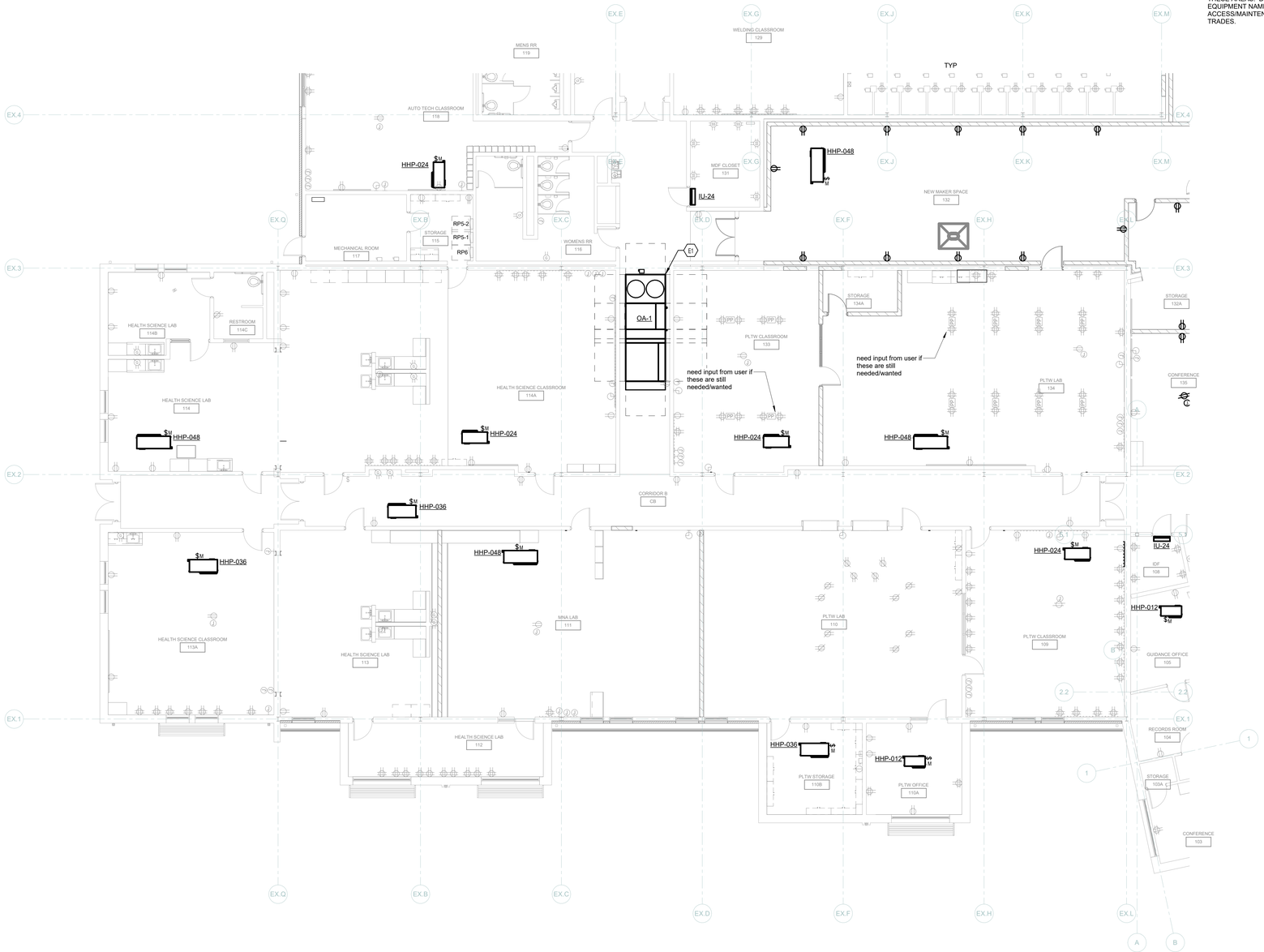

1 POWER - FIRST FLOOR AREA B

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16' 24' 32'

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POWER - FIRST FLOOR AREA B

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FOR:

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POWER - FIRST FLOOR AREA B

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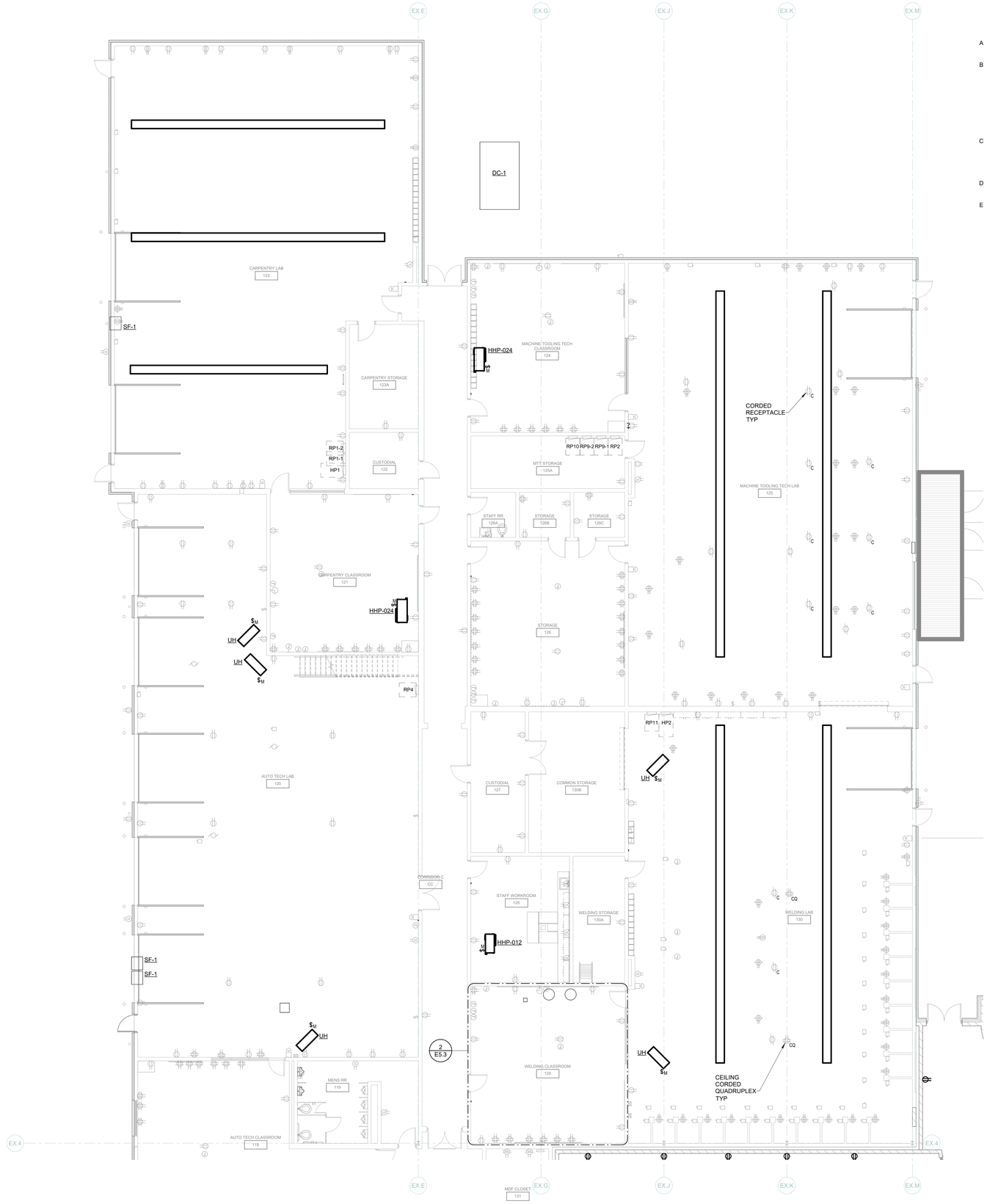

1 POWER - FIRST FLOOR AREA C
SCALE: 1/8" = 1'-0"
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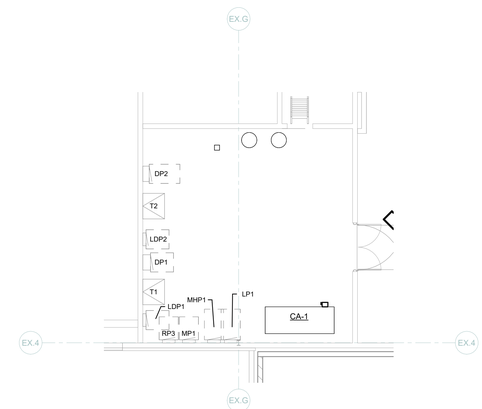

2 E5.3 POWER - MEZZANINE
1/8" = 1'-0"

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POWER - FIRST FLOOR AREA C

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E5.3

POWER - FIRST FLOOR AREA C

DATE ISSUED:
12/04/2025

REVISIONS

#	DATE	DESCRIPTION

ELECTRICAL SYSTEMS NOTES

A REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

C THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

D CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

TAGGED NOTES

(##)

1 E7.1 **SYSTEMS - FIRST FLOOR PLAN - AREA A**
1/8" = 1'-0"

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

NOT FOR CONSTRUCTION

SYSTEMS - FIRST FLOOR AREA A

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:

MARION COUNTY BOARD OF EDUCATION

LEBANON, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG

Project No: 25015/XMTC25
Drawn By: TSW
Rev'd By: GMB

SHEET RELEASE		
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E7.1

SYSTEMS - FIRST FLOOR AREA A

DATE ISSUED:
12/04/2025

REVISIONS

#	DATE	DESCRIPTION

ELECTRICAL SYSTEMS NOTES

A REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

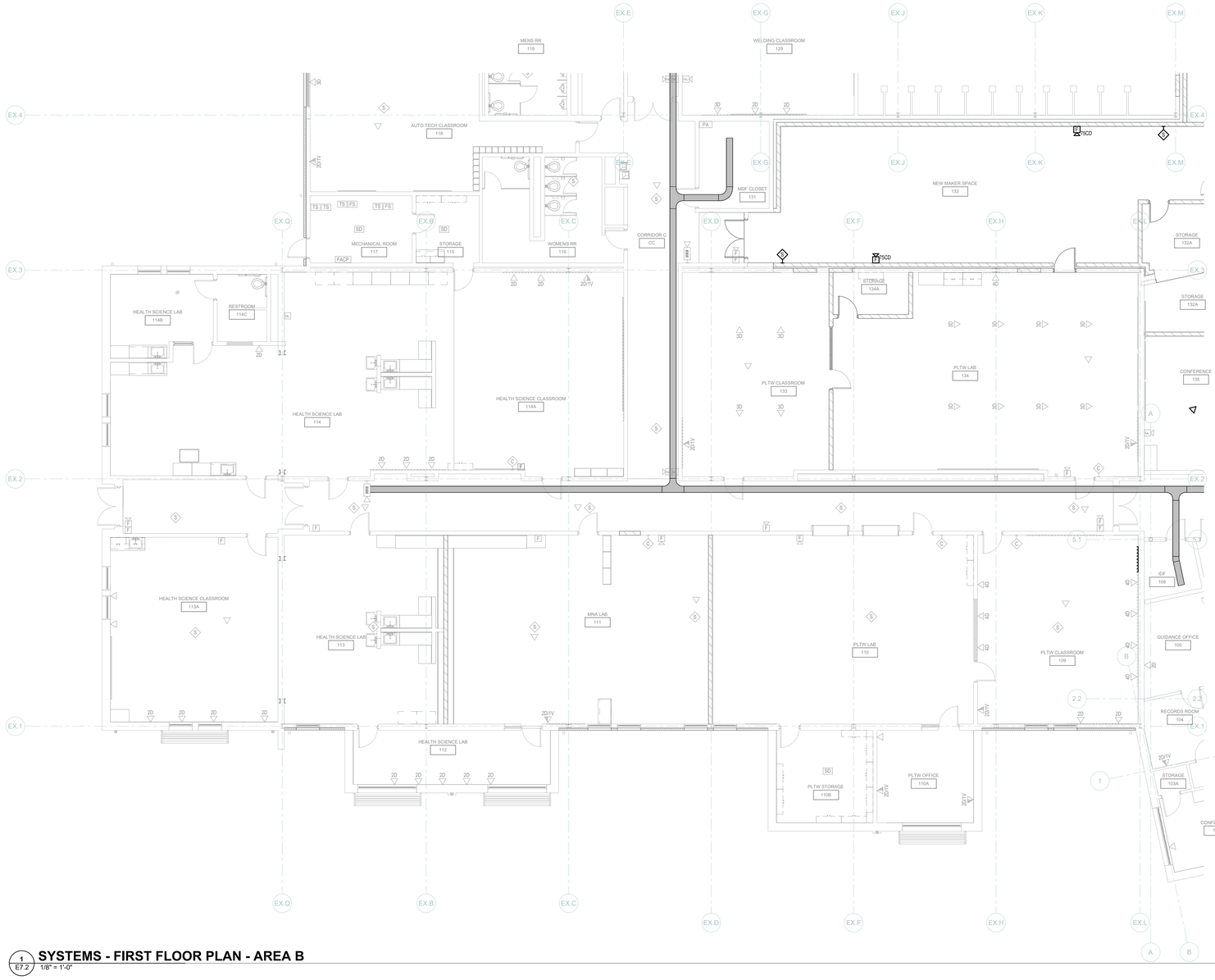
B REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

C THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

D CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

TAGGED NOTES

(##)



1 E7.2 **SYSTEMS - FIRST FLOOR PLAN - AREA B**
1/8" = 1'-0"

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

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SYSTEMS - FIRST FLOOR AREA B

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:

MARION COUNTY BOARD OF EDUCATION

LEBANON, KENTUCKY

M.E.&P. Engineer:
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Lexington, KY Office
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BG

Project No: 25015/XMTC25
Drawn By: TSW
Rev'd By: GMB

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SYSTEMS - FIRST FLOOR AREA B

DATE ISSUED:
12/04/2025

REVISIONS

#	DATE	DESCRIPTION

1 E7.3 **SYSTEMS - FIRST FLOOR PLAN - AREA C**
1/8" = 1'-0"

ELECTRICAL SYSTEMS NOTES

A REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

C THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

D CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

TAGGED NOTES

(##)

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

NOT FOR CONSTRUCTION

SYSTEMS - FIRST FLOOR AREA C

MARION COUNTY ATC - RENOVATION & ADDITION

FOR:

MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

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SYSTEMS - FIRST FLOOR AREA C

DATE ISSUED:
12/04/2025

REVISIONS

#	DATE	DESCRIPTION

PANELBOARD AND WIRING SCHEDULE

PANEL: HP1 **MAINS TYPE:** MCB **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: None,Not ComputedP,Not ComputedW **SPD:** **LOCATION:** CARPENTRY LAB 123
AMPERES: 225 A **MOUNTING:** SURFACE **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	2.5	2.5					2					
	ROBOT	--	20	3	3			2.5	2.5			4	3	20	--	ROBOT	
					5					2.5	2.5	6					
	ROBOT (CONFIRM THIS)	--	20	1	7	2.5	--					8	1	--	--	SPACE	
	ROBOT (CONFIRM THIS)	--	20	1	9			2.5	--			10	1	--	--	SPACE	
	ROBOT (CONFIRM THIS)	--	20	1	11					2.5	--	12	1	--	--	SPACE	
	SPACE	--	--	1	13	--	--					14	1	--	--	SPACE	
	SPACE	--	--	1	15			--	--			16	1	--	--	SPACE	
	SPACE	--	--	1	17					--	--	18	1	--	--	SPACE	
	SPACE	--	--	1	19	--	--					20	1	--	--	SPACE	
	SPACE	--	--	1	21			--	--			22	1	--	--	SPACE	
	SPACE	--	--	1	23					--	--	24	1	--	--	SPACE	
	SPACE	--	--	1	25	--	--					26	1	--	--	SPACE	
	SPACE	--	--	1	27			--	--			28	1	--	--	SPACE	
	SPACE	--	--	1	29					--	--	30	1	--	--	SPACE	
					31	0.0	0.0					32					
	SPARE (CONFIRM THIS)	--	20	3	33			0.0	0.0			34	3	70	--	SPARE (CONFIRM THIS)	
					35					0.0	0.0	36					
	SPACE	--	--	1	37	--	--					38	1	--	--	SPACE	
	SPACE	--	--	1	39			--	--			40	1	--	--	SPACE	
	SPACE	--	--	1	41					--	--	42	1	--	--	SPACE	
						7.5 kVA		7.5 kVA		7.5 kVA							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Spare	22500 VA	100.00%	22500 VA	TOTAL CONNECTED LOAD:	22500 VA
				TOTAL ESTIMATED DEMAND:	22500 VA
				TOTAL CONNECTED CURRENT:	Not Computed
				TOTAL ESTIMATED DEMAND CURRENT:	Not Computed
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: HP2 **MAINS TYPE:** MCB **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: None,Not ComputedP,Not ComputedW **SPD:** **LOCATION:** WELDING LAB 130
AMPERES: 225 A **MOUNTING:** SURFACE **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	0.0	0.0					2					
	WELDER DROP 1	--	50	3	3			0.0	0.0			4	3	50	--	WELDER DROP 2	
					5					0.0	0.0	6					
					7	0.0	0.0					8					
	WELDER DROP 3	--	50	3	9			0.0	0.0			10	3	50	--	WELDING RECP GARAG DR	
					11					0.0	0.0	12					
	SPACE	--	--	1	13	--	0.0					14					
	SPACE	--	--	1	15			--	0.0			16	3	20	--	METAL SAW	
	SPACE	--	--	1	17					--	0.0	18					
	SPACE	--	--	1	19	--	--					20	1	--	--	SPACE	
	SPACE	--	--	1	21			--	--			22	1	--	--	SPACE	
	SPACE	--	--	1	23					--	--	24	1	--	--	SPACE	
	SPACE	--	--	1	25	--	--					26	1	--	--	SPACE	
	SPACE	--	--	1	27			--	--			28	1	--	--	SPACE	
	SPACE	--	--	1	29					--	--	30	1	--	--	SPACE	
	SPARE	--	20	1	31	0.0	0.0					32	1	20	--	SPARE	
	SPARE	--	20	1	33			0.0	0.0			34	1	20	--	SPARE	
	SPARE	--	20	1	35					0.0	0.0	36	1	20	--	SPARE	
	SPACE	--	--	1	37	--	--					38	1	--	--	SPACE	
	SPACE	--	--	1	39			--	--			40	1	--	--	SPACE	
	SPACE	--	--	1	41					--	--	42	1	--	--	SPACE	
						0.0 kVA		0.0 kVA		0.0 kVA							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	Not Computed
				TOTAL ESTIMATED DEMAND CURRENT:	Not Computed
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: LP2 **MAINS TYPE:** MCB **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: None,Not ComputedP,Not ComputedW **SPD:** **LOCATION:** CAD LAB 136
AMPERES: 125 A **MOUNTING:** SURFACE **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	LIGHTING CARP. LAB	--	20	1	1	0.0	0.0					2	1	20	--	LIGHTING 138, 139	
	LIGHTING CARP. LAB, 134	--	20	1	3			0.0	0.0			4	1	20	--	LIGHTING OFFICE AREA	
	LIGHTING HALL & RR	--	20	1	5					0.0	0.0	6	1	20	--	LIGHTING 136, 137	
	EXTERIOR WALL LIGHTS	--	20	1	7	0.0	0.0					8	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	9			0.0	0.0			10	1	20	--	LIGHTING VESTIBULE	
	SPACE	--	--	1	11					--	--	12	1	--	--	SPACE	
	SPACE	--	--	1	13	--	--					14	1	--	--	SPACE	
	SPACE	--	--	1	15			--	--			16	1	--	--	SPACE	
	SPACE	--	--	1	17					--	--	18	1	--	--	SPACE	
	SPACE	--	--	1	19	--	--					20	1	--	--	SPACE	
	SPACE	--	--	1	21			--	--			22	1	--	--	SPACE	
	SPACE	--	--	1	23					--	--	24	1	--	--	SPACE	
	SPACE	--	--	1	25	--	--					26	1	--	--	SPACE	
	SPACE	--	--	1	27			--	--			28	1	--	--	SPACE	
	SPACE	--	--	1	29					--	--	30	1	--	--	SPACE	
	POLE LIGHTS	--	20	1	31	0.0	0.0					32	1	20	--	SPARE (CONFIRM THIS ONE)	
	POLE LIGHTS	--	20	1	33			0.0	0.0			34	1	20	--	SPARE (CONFIRM THIS ONE)	
	POLE LIGHTS	--	20	1	35					0.0	0.0	36	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPACE	--	--	1	37	--	--					38	1	--	--	SPACE	
	SPACE	--	--	1	39			--	--			40	1	--	--	SPACE	
	SPACE	--	--	1	41					--	--	42	1	--	--	SPACE	
						0.0 kVA		0.0 kVA		0.0 kVA							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	Not Computed
				TOTAL ESTIMATED DEMAND CURRENT:	Not Computed
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: MHP2 **MAINS TYPE:** MCB **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: None,Not ComputedP,Not ComputedW **SPD:** **LOCATION:** CAD LAB 136
AMPERES: 1 A **MOUNTING:** SURFACE **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	0.0	0.0					2					
	RTU HP-4A	--	30	3	3			0.0	0.0			4	3	45	--	DUST COLLECTOR	
					5					0.0	0.0	6					
					7	0.0	--					8	1	--	--	SPACE	
	RTU HP-4B	--	30	3	9			0.0	--			10	1	--	--	SPACE	
					11					0.0	--	12	1	--	--	SPACE	
	SPACE	--	--	1	13	--	--					14	1	--	--	SPACE	
	SPACE	--	--	1	15			--	--			16	1	--	--	SPACE	
	SPACE	--	--	1	17					--	--	18	1	--	--	SPACE	
	SPACE	--	--	1	19	--	--					20	1	--	--	SPACE	
	SPACE	--	--	1	21			--	--			22	1	--	--	SPACE	
	SPACE	--	--	1	23					--	--	24	1	--	--	SPACE	
	SPACE	--	--	1	25	--	--					26	1	--	--	SPACE	
	SPACE	--	--	1	27			--	--			28	1	--	--	SPACE	
	SPACE	--	--	1	29					--	--	30	1	--	--	SPACE	
					31	0.0	0.0					32					
	SPARE	--	30	3	33			0.0	0.0			34	3	30	--	SPARE	
					35					0.0	0.0	36					
	SPACE	--	--	1	37	--	--					38	1	--	--	SPACE	
	SPACE	--	--	1	39			--	--			40	1	--	--	SPACE	
	SPACE	--	--	1	41					--	--	42	1	--	--	SPACE	
						0.0 kVA		0.0 kVA		0.0 kVA							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	Not Computed
				TOTAL ESTIMATED DEMAND CURRENT:	Not Computed
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: MP2 **MAINS TYPE:** MCB **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: None,Not ComputedP,Not ComputedW **SPD:** **LOCATION:** CAD LAB 136
AMPERES: 125 A **MOUNTING:** SURFACE **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	FCU 134	--	20	2	1	0.0	0.0					2	2	20	--	FCU 105	
					3			0.0	0.0			4					
	FCU OFFICE AREA	--	20	2	5					0.0	0.0	6	2	20	--	FCU RR	
					7	0.0	0.0					8					
	FCU 138, 139	--	20	2	9			0.0	0.0			10	2	20	--	ENERGY RECOVERY UNIT 2	
					11					0.0	0.0	12					
	LOBBY CEILING FAN	--	20	1	13	0.0	0.0					14	1	20	--	HEATER CARP. LAB	
	FCU 136, 137	--	20	2	15			0.0	0.0			16	1	20	--	SUPPLY FAN CARP. LAB	
					17					0.0	--	18	1	--	--	SPACE	
	SPACE	--	--	1	19	--	--					20	1	--	--	SPACE	
	SPACE	--	--	1	21			--	--			22	1	--	--	SPACE	
	SPARE (CONFIRM THIS ONE)	--	20	1	23					0.0	--	24	1	--	--	SPACE	
	SPACE	--	--	1	25	--	--					26	1	--	--	SPACE	
	SPACE	--	--	1	27			--	--			28	1	--	--	SPACE	
	SPACE	--	--	1	29					--	--	30	1	--	--	SPACE	
	SPARE (CONFIRM THIS ONE)	--	20	1	31	0.0	0.0					32	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	33			0.0	0.0			34	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	35					0.0	--	36	1	--	--	SPACE	
	SPACE	--	--	1	37	--	--					38	1	--	--	SPACE	
	SPACE	--	--	1	39			--	--			40	1	--	--	SPACE	
	SPACE	--	--	1	41					--	--	42	1	--	--	SPACE	
						0.0 kVA		0.0 kVA		0.0 kVA							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	Not Computed
				TOTAL ESTIMATED DEMAND CURRENT:	Not Computed
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RP1-1 **MAINS TYPE:** MCB **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W **SPD:** **LOCATION:** CARPENTRY LAB 123
AMPERES: 225 A **MOUNTING:** SURFACE **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	RECEPTACLE IM LAB	--	20	1	1	0.4	1.2					2	2	30	--	208V RECEPTACLE IM LAB	
	RECEPTACLE IM LAB	--	20	1	3			0.4	1.2			4					
	RECEPTACLE IM LAB	--	20	1	5					0.4	1.2	6	2	30	--	208V RECEPTACLE IM LAB	
	RECEPTACLE IM LAB	--	20	1	7	0.5	1.2					8					
	RECEPTACLE IM LAB	--	20	1	9			0.4	1.2			10	2	30	--	208V RECEPTACLE IM LAB	
	RECEPTACLE IM LAB	--	20	1	11					0.4	1.2	12					
	208V RECEPTACLE IM LAB	--	30	2	13	1.2	0.4					14	1	20	--	RECEPTACLE IM LAB	
					15			1.2	0.4			16	1	20	--	RECEPTACLE IM LAB	
	208V RECEPTACLE IM LAB	--	30	2	17					1.2	0.4	18	1	20	--	RECEPTACLE IM LAB	
					19	1.2	1.2					20	2	30	--	208V RECEPTACLE IM LAB	
	208V RECEPTACLE IM LAB	--	30	2	21			1.2	1.2			22					
					23					1.2	0.4	24	1	20	--	RECEPTACLE IM LAB	
	208V RECEPTACLE IM LAB	--	30	2	25	1.2	4.8					26					
					27			1.2	4.8			28	3	60	--	INJECTION MOLDING MACHN	
					29					1.8	4.8	30					
	INJECTION MOLDING MACHINE	--	40	3	31	1.8	1.0					32	2	30	--	INJECTION MOLDING MACHN	
					33			1.8	1.0			34					
	KILL SWITCH IM LAB	--	20	1	35					0.2	0.0	36	1	20	--	SPARE	
					37	1.2	1.2					38					
	IM LAB RECP	--	30	3	39			1.2	1.2			40	3	30	--	IM LAB RECP	
					41					1.2	1.2	42					
						18.5 kVA		18.4 kVA		15.6 kVA							
						158 A		157 A		130 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Spare	52480 VA	100.00%	52480 VA	TOTAL CONNECTED LOAD:	52480 VA
				TOTAL ESTIMATED DEMAND:	52480 VA
				TOTAL CONNECTED CURRENT:	146 A
				TOTAL ESTIMATED DEMAND CURRENT:	146 A
				25 % ADDITIONAL CAPACITY:	36 A
				TOTAL PANEL CURRENT:	182 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RP1-2 **MAINS TYPE:** MCB **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W **SPD:** **LOCATION:** CARPENTRY LAB 123
AMPERES: 225 A **MOUNTING:** SURFACE **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	SHAPER	--	--	1	1	--	0.0					2	1	20	--	CONTROL CIRCUIT	
					3			0.0	0.0			4					
	SHAPER	--	20	3	5					0.0	0.0	6	3	40	--	SLIDING SAW	
					7	0.0	0.0					8					
					9			0.0	--			10	1	--	--	SLIDING SAW	
	SLIDING SHAPER	--	30	3	11					0.0	0.0	12					
					13	0.0	0.0					14	3	80	--	PLANER	
	SANDER	--	--	1	15			--	0.0			16					
					17					0.0	0.0	18					
	SANDER	--	80	3	19	0.0	0.0					20	3	20	--	TABLE SAW	
					21			0.0	0.0			22					
	SPACE	--	--	1	23					--	--	24	1	--	--	SPACE	
	SPACE	--	--	1	25	--	--					26	1	--	--	SPACE	
	SPACE	--	--	1	27			--	--			28	1	--	--	SPACE	
	SPACE	--	--	1	29					--	--	30	1	--	--	SPACE	
					31	0.0	0.0					32	1	20	--	CONTROL CIRCUIT	
	SPARE (CONFIRM THIS)	--	20	3	33			0.0	0.0			34	1	20	--	CORD REELS	
					35					0.0	0.0	36	1	20	--	OUTSIDE GFI	
	SPACE	--	--	1	37	--	--					38	1	--	--	SPACE	
	SPACE	--	--	1	39			--	--			40	1	--	--	SPACE	
	SPACE	--	--	1	41					--	--	42	1	--	--	SPACE	
						0.0 kVA		0.0 kVA		0.0 kVA							
						0 A		0 A		0 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT:	0 A
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RP2 **MAINS TYPE:** MCB **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W **SPD:** **LOCATION:** MTT STORAGE 125A
AMPERES: 125 A **MOUNTING:** SURFACE **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	RECEPTACLE 126	--	20	1	1	0.0	0.0					2	1	20	--	RECEPTACLE 125A, 126A	
	RECEPTACLE 126	--	20	1	3			0.0	0.0			4	1	20	--	RECEPTACLE 125A, 126A	
	RECEPTACLE 126	--	20	1	5					0.0	0.0	6	1	20	--	RECEPTACLE 125A, 126A	
	RECEPTACLE 126	--	20	1	7	0.0	0.0					8	1	20	--	RECEPTACLE 125A, 126A	
	RECEPTACLE 126	--	20	1	9			0.0	0.0			10	1	20	--	RECEPTACLE 125A, 126A	
	RECEPTACLE 126	--	20	1	11					0.0	0.0	12	1	20	--	RECEPTACLE 125A, 126A	
	RECEPTACLE 126	--	20	1	13	0.0	0.0					14	1	20	--	RECEPTACLE 125A, 126A	
	RECEPTACLE 126	--	20	1	15			0.0	0.0			16	1	20	--	RECEPTACLE 125A, 126A	
	RECEPTACLE 126	--	20	1	17					0.0	0.0	18	1	20	--	RECEPTACLE 122, 123A	
	RECEPTACLE 124	--	20	1	19	0.0	0.0					20	1	20	--	HALLWAY RECEPTACLE	
	RECEPTACLE 124	--	20	1	21			0.0	0.0			22	1	20	--	RECEPTACLE 125A, 126C	
	RECEPTACLE 124	--	20	1	23					0.0	0.0	24	1	20	--	SPARE (CONFIRM THIS ONE)	
	RECEPTACLE 124	--	20	1	25	0.0	--					26	1	--	--	SPACE	
	RECEPTACLE 124	--	20	1	27			0.0	--			28	1	--	--	SPACE	
	SPACE	--	--	1	29					--	--	30	1	--	--	SPACE	
	KILL SWITCH MTT LAB	--	20	1	31	0.0	0.0					32	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	33			0.0	0.0			34	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	35					0.0	0.0	36	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPACE	--	--	1	37	--	--					38	1	--	--	SPACE	
	SPACE	--	--	1	39			--	--			40	1	--	--	SPACE	
	SPACE	--	--	1	41					--	--	42	1	--	--	SPACE	
						0.0 kVA		0.0 kVA		0.0 kVA							
						0 A		0 A		0 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT:	0 A
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RP4 **MAINS TYPE:** MCB **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W **SPD:** **LOCATION:** AUTO TECH LAB 120
AMPERES: 100 A **MOUNTING:** SURFACE **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	RCP AUTO MECH LAB	--	20	1	1	0.4	0.4					2	1	20	--	RCP AUTO MECH LAB	
	RCP AUTO MECH LAB	--	20	1	3			0.4	0.4			4	1	20	--	RCP AUTO MECH LAB	
	RCP AUTO MECH LAB	--	20	1	5					0.4	0.8	6	1	20	--	RCP AUTO MECH LAB	
	RCP AUTO MECH LAB	--	20	1	7	0.4	0.6					8	1	20	--	RCP AUTO MECH LAB	
	RCP AUTO MECH LAB	--	20	1	9			0.6	0.8			10	1	20	--	RCP AUTO MECH LAB	
	RCP AUTO MECH LAB	--	20	1	11					0.8	0.8	12	1	20	--	RCP AUTO MECH LAB	
	RCP AUTO MECH LAB	--	20	1	13	0.8	0.5					14	1	20	--	RCP AUTO MECH LAB	
	2 POST AUTO LIFT	--	20	2	15			1.2	1.7			16	2	35	--	4 POST AUTO LIFT	
					17					1.2	1.7	18					
	SISSOR LIFT	--	20	2	19	1.2	2.0					20					
					21			1.2	2.0			22	3	30	--	RCP AUTO MECH LAB	
					23					2.0	2.0	24					
	RCP AUTO MECH LAB	--	30	3	25	2.0	1.0					26					
					27			2.0	1.0			28	3	20	--	RCP AUTO MECH LAB	
	RCP EXT	--	20	1	29					0.7	1.0	30					
	SPARE	--	20	1	31	0.0	0.2					32	1	20	--	RCP AUTO MECH PLATFORM	
	SPARE	--	20	1	33			0.0	0.0			34	1	20	--	SPARE	
	SPARE	--	20	1	35					0.0	0.0	36	1	20	--	SPARE	
	SPACE	--	--	1	37	--	--					38	1	--	--	SPACE	
	SPACE	--	--	1	39			--	--			40	1	--	--	SPACE	
	SPACE	--	--	1	41					--	--	42	1	--	--	SPACE	
						9.5 kVA		11.3 kVA		11.4 kVA							
						79 A		97 A		98 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Spare	32200 VA	100.00%	32200 VA	TOTAL CONNECTED LOAD:	32200 VA
				TOTAL ESTIMATED DEMAND:	32200 VA
				TOTAL CONNECTED CURRENT:	89 A
				TOTAL ESTIMATED DEMAND CURRENT:	89 A
				25 % ADDITIONAL CAPACITY:	22 A
				TOTAL PANEL CURRENT:	112 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RP5-1 **MAINS TYPE:** MCB **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W **SPD:** **LOCATION:** STORAGE 115
AMPERES: 125 A **MOUNTING:** SURFACE **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	RECEPTACLE 133	--	20	1	1	0.0	0.0					2	1	20	--	RECEPTACLE 109	
	RECEPTACLE 133	--	20	1	3			0.0	0.0			4	1	20	--	RECEPTACLE 109	
	RECEPTACLE 133	--	20	1	5					0.0	0.0	6	1	20	--	RECEPTACLE 109	
	RECEPTACLE 133	--	20	1	7	0.0	0.0					8	1	20	--	RECEPTACLE 109	
	RECEPTACLE 133	--	20	1	9			0.0	0.0			10	1	20	--	RECEPTACLE 109	
	RECEPTACLE 133	--	20	1	11					0.0	0.0	12	1	20	--	RECEPTACLE 109	
	RECEPTACLE 133	--	20	1	13	0.0	0.0					14	1	20	--	RECEPTACLE 109	
	RECEPTACLE 133	--	20	1	15			0.0	0.0			16	1	20	--	RECEPTACLE 109	
	RECEPTACLE 133	--	20	1	17					0.0	0.0	18	1	20	--	RECEPTACLE 109	
	RECEPTACLE 133	--	20	1	19	0.0	0.0					20	1	20	--	RECEPTACLE 109	
	RECEPTACLE 133	--	20	1	21			0.0	0.0			22	1	20	--	RECEPTACLE 109	
	ISLAND RECEPTACLE 110	--	20	1	23					0.0	0.0	24	1	20	--	RECEPTACLE 110B, 110A	
	ISLAND RECEPTACLE 110	--	20	1	25	0.0	0.0					26	1	20	--	RECEPTACLE 110B, 110A	
	ISLAND RECEPTACLE 110	--	20	1	27			0.0	0.0			28	1	20	--	RECEPTACLE 110B, 110A	
	RECEPTACLE 110	--	20	1	29					0.0	0.0	30	1	20	--	SPARE (CONFIRM THIS ONE)	
	MENS HAND DRYER	--	20	1	31	0.0	0.0					32	1	20	--	SPARE (CONFIRM THIS ONE)	
	MENS HAND DRYER	--	20	1	33			0.0	0.0			34	1	20	--	SPARE (CONFIRM THIS ONE)	
	WOMENS HAND DRYER	--	20	1	35					0.0	0.0	36	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPACE	--	--	1	37	--	--					38	1	--	--	SPACE	
	SPACE	--	--	1	39			--	--			40	1	--	--	SPACE	
	SPACE	--	--	1	41					--	--	42	1	--	--	SPACE	
						0.0 kVA		0.0 kVA		0.0 kVA							
						0 A		0 A		0 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT:	0 A
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RP5-2 **MAINS TYPE:** MCB **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W **SPD:** **LOCATION:** STORAGE 115
AMPERES: 225 A **MOUNTING:** SURFACE **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	RECEPTACLE 132	--	20	1	1	0.0	0.0					2	1	20	--	RECEPTACLE 132	
	RECEPTACLE 132	--	20	1	3			0.0	0.0			4	1	20	--	RECEPTACLE 132	
	RECEPTACLE 132	--	20	1	5					0.0	0.0	6	1	20	--	RECEPTACLE 132	
	RECEPTACLE 132	--	20	1	7	0.0	0.0					8	1	20	--	RECEPTACLE 132	
	RECEPTACLE 132	--	20	1	9			0.0	0.0			10	1	20	--	RECEPTACLE 132	
	RECEPTACLE 132	--	20	1	11					0.0	0.0	12	1	20	--	RECEPTACLE 132	
	RECEPTACLE 132	--	20	1	13	0.0	0.0					14	1	20	--	RECEPTACLE 132	
	RECEPTACLE 132	--	20	1	15			0.0	0.0			16	1	20	--	RECEPTACLE 132	
	RECEPTACLE 132	--	20	1	17					0.0	0.0	18	1	20	--	RECEPTACLE 132	
	RECEPTACLE 132	--	20	1	19	0.0	0.0					20	1	20	--	RECEPTACLE 132	
	RECEPTACLE 132	--	20	1	21			0.0	0.0			22	1	20	--	RECEPTACLE 132	
	RECEPTACLE 132	--	20	1	23					0.0	0.0	24	1	20	--	RECEPTACLE 132	
	RECEPTACLE 132	--	20	1	25	0.0	0.0					26	1	20	--	RECEPTACLE 132	
	RECEPTACLE 132	--	20	1	27			0.0	0.0			28	1	20	--	RECEPTACLE 113	
	RECEPTACLE 132, 133	--	20	1	29					0.0	0.0	30	1	20	--	RECEPTACLE 113	
	RECEPTACLE 133	--	20	1	31	0.0	0.0					32	1	20	--	RECEPTACLE 113	
	SPARE (CONFIRM THIS ONE)	--	20	1	33			0.0	0.0			34	1	20	--	RECEPTACLE 113	
	SPARE (CONFIRM THIS ONE)	--	20	1	35					0.0	0.0	36	1	20	--	RECEPTACLE 113	
	SPACE	--	--	1	37	--	--					38	1	--	--	SPACE	
	SPACE	--	--	1	39			--	--			40	1	--	--	SPACE	
	SPACE	--	--	1	41					--	--	42	1	--	--	SPACE	
						0.0 kVA		0.0 kVA		0.0 kVA							
						0 A		0 A		0 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT:	0 A
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RP6 **MAINS TYPE:** MCB **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W **SPD:** **LOCATION:** STORAGE 115
AMPERES: 125 A **MOUNTING:** SURFACE **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	RECEPTACLE 112	--	20	1	1	0.0	0.0					2	1	20	--	RECEPTACLE 115	
	RECEPTACLE 112B	--	20	1	3			0.0	0.0			4	1	20	--	RECEPTACLE 115	
	RECEPTACLE 112B	--	20	1	5					0.0	0.0	6	1	20	--	RECEPTACLE 115	
	RECEPTACLE 112B	--	20	1	7	0.0	0.0					8	1	20	--	RECEPTACLE 115	
	RECEPTACLE 112B	--	20	1	9			0.0	0.0			10	1	20	--	RECEPTACLE 115	
	RECEPTACLE 112B	--	20	1	11					0.0	0.0	12	1	20	--	RECEPTACLE 115	
	RECEPTACLE 112	--	20	1	13	0.0	0.0					14	1	20	--	RECEPTACLE 115	
	RECEPTACLE 112	--	20	1	15			0.0	0.0			16	1	20	--	RECEPTACLE 115	
	RECEPTACLE 112	--	20	1	17					0.0	0.0	18	1	20	--	RECEPTACLE 115	
	RECEPTACLE 114	--	20	1	19	0.0	0.0					20	1	20	--	RECEPTACLE 115	
	RECEPTACLE 114	--	20	1	21			0.0	0.0			22	1	20	--	RECEPTACLE 118	
	RECEPTACLE 114	--	20	1	23					0.0	0.0	24	1	20	--	RECEPTACLE 118	
	RECEPT. MENS/WOMENS RR	--	20	1	25	0.0	0.0					26	1	20	--	RECEPTACLE 118	
	HALLWAY WATER FOUNTAIN	--	20	1	27			0.0	0.0			28	1	20	--	RECEPTACLE 118	
	CLOTHES DRYER	--	20	1	29					0.0	0.0	30	1	20	--	RECEPTACLE 118	
	CLOTHES DRYER	--	20	1	31	0.0	0.0					32	1	20	--	RECEPTACLE 118	
	RECEPTACLE HALLWAY	--	20	1	33			0.0	0.0			34	1	20	--	CLOTHES WASHER	
	HALLWAY WATER FOUNTAIN	--	20	1	35					0.0	0.0	36	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	37	0.0	0.0					38	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPACE	--	--	1	39			--	--			40	1	--	--	SPACE	
	SPACE	--	--	1	41					--	--	42	1	--	--	SPACE	
						0.0 kVA		0.0 kVA		0.0 kVA							
						0 A		0 A		0 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT:	0 A
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

NOT FOR CONSTRUCTION

PANEL SCHEDULES
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M,E,&P Engineer:
CMTA, Inc.
Lexington, KY Office
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG

Project No: 25015/XMTC25
Drawn By: TSW
Rev'd By: GMB

SHEET RELEASE

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PANEL SCHEDULES

DATE ISSUED: 12/04/2025

REVISIONS		
#	DATE	DESCRIPTION

PANELBOARD AND WIRING SCHEDULE

PANEL: RP7-1 | **MAINS TYPE:** MCB | **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W | **SPD:** | **LOCATION:** CAD LAB 136
AMPERES: 125 A | **MOUNTING:** SURFACE | **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	RECEPTACLE 137	--	20	1	1	0.0 0.0			2	1	20	--	RECEPTACLE 136	
	RECEPTACLE 137	--	20	1	3		0.0 0.0		4	1	20	--	RECEPTACLE 136	
	RECEPTACLE 137	--	20	1	5			0.0 0.0	6	1	20	--	RECEPTACLE 136	
	RECEPTACLE 137	--	20	1	7	0.0 0.0			8	1	20	--	RECEPTACLE 136	
	RECEPTACLE 137	--	20	1	9		0.0 0.0		10	1	20	--	RECEPTACLE 134	
	RECEPTACLE 138	--	20	1	11			0.0 0.0	12	1	20	--	RECEPTACLE 134	
	RECEPTACLE 138	--	20	1	13	0.0 0.0			14	1	20	--	RECEPTACLE 134	
	RECEPTACLE 138	--	20	1	15		0.0 0.0		16	1	20	--	RECEPTACLE 134	
	RECEPTACLE 138	--	20	1	17			0.0 0.0	18	1	20	--	RECEPTACLE 134	
	RECEPTACLE 138	--	20	1	19	0.0 0.0			20	1	20	--	RECEPTACLE 134	
	RECEPTACLE 139	--	20	1	21		0.0 0.0		22	1	20	--	RECEPTACLE GUIDANCE OFF.	
	RECEPTACLE 139	--	20	1	23			0.0 0.0	24	1	20	--	RECEPTACLE CUSTODIAL CLST	
	RECEPTACLE 139	--	20	1	25	0.0 0.0			26	1	20	--	RECEPTACLE RECORDS ROOM	
	RECEPTACLE 139	--	20	1	27		0.0 0.0		28	1	20	--	RECEPTACLE RECEPT AREA	
	RECEPTACLE 139	--	20	1	29			0.0 0.0	30	1	20	--	RECEPTACLE RECEPT AREA	
	SPARE (COINFIRM THIS ONE)	--	20	1	31	0.0 0.0			32	1	20	--	RECEPTACLE CONFERENCE RM	
	SPARE (CONFIRM THIS ONE)	--	20	1	33		0.0 0.0		34	1	20	--	RECEPTACLE OFFICE 102	
	RECEPTACLE RR	--	20	1	35			0.0 0.0	36	1	20	--	HALLWAY WATER FOUNTAIN	
	SPACE	--	--	1	37	-- --			38	1	--	--	SPACE	
	SPACE	--	--	1	39		-- --		40	1	--	--	SPACE	
	SPACE	--	--	1	41			-- --	42	1	--	--	SPACE	
						0.0 kVA	0.0 kVA	0.0 kVA						
						0 A	0 A	0 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT:	0 A
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RP7-2 | **MAINS TYPE:** MCB | **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W | **SPD:** | **LOCATION:** CAD LAB 136
AMPERES: 225 A | **MOUNTING:** SURFACE | **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	SPARE	--	20	1	1	0.0 0.0			2	1	20	--	SPARE	
	SPACE	--	--	1	3		-- 0.0		4	1	20	--	SPARE	
	SPACE	--	--	1	5			-- 0.0	6	1	20	--	SPARE	
	SPACE	--	--	1	7	-- 0.0			8					
	SPACE	--	--	1	9		-- 0.0		10	3	40	--	SPARE	
	SPACE	--	--	1	11			-- 0.0	12					
					13	0.0 --			14	1	--	--	SPACE	
	SPARE	--	40	3	15		0.0 --		16	1	--	--	SPACE	
					17			0.0 --	18	1	--	--	SPACE	
	SPACE	--	--	1	19	-- --			20	1	--	--	SPACE	
	SPACE	--	--	1	21		-- --		22	1	--	--	SPACE	
					23			0.0 --	24	1	--	--	SPACE	
	SPARE	--	60	3	25	0.0 --			26	1	--	--	SPACE	
					27		0.0 --		28	1	--	--	SPACE	
	SPARE	--	20	2	29			0.0 --	30	1	--	--	SPACE	
					31	0.0 --			32	1	--	--	SPACE	
	SPACE	--	--	1	33		-- --		34	1	--	--	SPACE	
	SPACE	--	--	1	35			-- 0.0	36	2	20	--	SPARE	
	SPACE	--	--	1	37	-- 0.0			38					
	SPACE	--	--	1	39		-- --		40	1	--	--	SPACE	
	SPACE	--	--	1	41			-- --	42	1	--	--	SPACE	
						0.0 kVA	0.0 kVA	0.0 kVA						
						0 A	0 A	0 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT:	0 A
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RP8 | **MAINS TYPE:** MCB | **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W | **SPD:** | **LOCATION:** CAD LAB 136
AMPERES: 125 A | **MOUNTING:** SURFACE | **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	CORD REEL	--	20	1	1	0.0 0.0			2	1	20	--	CORD REEL	
	CORD REEL	--	20	1	3		0.0 0.0		4	1	20	--	CORD REEL	
	RECEPTACLE CARPENTRY LAB	--	20	1	5			0.0 0.0	6	1	20	--	RECEPTACLE CARPENTRY LAB	
	RECEPTACLE CARPENTRY LAB	--	20	1	7	0.0 0.0			8	1	20	--	RECEPTACLE CARPENTRY LAB	
	RECEPTACLE CARPENTRY LAB	--	20	1	9		0.0 0.0		10	1	20	--	RECEPTACLE CARPENTRY LAB	
	RECEPTACLE CARPENTRY LAB	--	20	1	11			0.0 0.0	12	1	20	--	RECEPTACLE CARPENTRY LAB	
	RECEPTACLE CARPENTRY LAB	--	20	1	13	0.0 0.0			14	1	20	--	RECEPTACLE CARPENTRY LAB	
	RECEPTACLE CARPENTRY LAB	--	20	1	15		0.0 0.0		16	1	20	--	RECEPTACLE CARPENTRY LAB	
	RECEPTACLE CARPENTRY LAB	--	20	1	17			0.0 0.0	18	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	19	0.0 0.0			20	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	21		0.0 0.0		22	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	23			0.0 0.0	24	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	25	0.0 0.0			26	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	27		0.0 0.0		28	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	29			0.0 0.0	30	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	31	0.0 0.0			32	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	33		0.0 0.0		34	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	35			0.0 0.0	36	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPACE	--	--	1	37	-- 0.0			38	2	40	--	CONVEYOR OVEN	
	SPACE	--	--	1	39		-- 0.0		40					
	SPACE	--	--	1	41			-- --	42	1	--	--	SPACE	
	SPACE	--	--	1	43	-- --			44	1	--	--	SPACE	
	SPACE	--	--	1	45		-- --		46	1	--	--	SPACE	
	E-STOP	--	--	1	47			-- --	48	1	--	--	SPACE	
					49	0.0 --			50	1	--	--	N/A	
	E-STOP	--	100	3	51		0.0 --		52	1	--	--	N/A	
					53			0.0 --	54	1	--	--	N/A	
						0.0 kVA	0.0 kVA	0.0 kVA						
						0 A	0 A	0 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT:	0 A
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RP9-1 | **MAINS TYPE:** MCB | **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W | **SPD:** | **LOCATION:** MTT STORAGE 125A
AMPERES: 1 A | **MOUNTING:** SURFACE | **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	0.0 0.0			2					
	LATHE 8	--	30	3	3		0.0 0.0		4	3	30	--	LATHE 7	
					5			0.0 0.0	6					
					7	0.0 0.0			8					
	LATHE 5	--	30	3	9		0.0 0.0		10	3	30	--	LATHE 6	
					11			0.0 0.0	12					
					13	0.0 0.0			14					
	LATHE 3	--	30	3	15		0.0 0.0		16	3	30	--	LATHE 4	
					17			0.0 0.0	18					
					19	0.0 0.0			20					
	LATHE 1	--	30	3	21		0.0 0.0		22	3	30	--	LATHE 2	
					23			0.0 0.0	24					
					25	0.0 0.0			26					
	MILLING MACHINE 7	--	20	3	27		0.0 0.0		28	3	20	--	MILLING MACHINE 6	
					29			0.0 0.0	30					
	SPARE (CONFIRM THIS ONE)	--	20	1	31	0.0 0.0			32	1	20	--	MEASURING MACHING	
	SPARE (CONFIRM THIS ONE)	--	20	1	33		0.0 0.0		34	1	20	--	SPARE (CONFIRM THIS ONE)	
	SPARE (CONFIRM THIS ONE)	--	20	1	35			0.0 0.0	36	1	20	--	SPARE (CONFIRM THIS ONE)	
					37	0.0 0.0			38					
	SPARE (CONFIRM THIS ONE)	--	20	3	39		0.0 0.0		40	3	20	--	SPARE (CONFIRM THIS ONE)	
					41			0.0 0.0	42					
						0.0 kVA	0.0 kVA	0.0 kVA						
						0 A	0 A	0 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT:	0 A
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RP9-2 | **MAINS TYPE:** MCB | **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W | **SPD:** | **LOCATION:** MTT STORAGE 125A
AMPERES: 1 A | **MOUNTING:** SURFACE | **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	0.0 0.0			2					
	MILLING MACHINE 5	--	20	3	3		0.0 0.0		4	3	20	--	MILLING MACHINE 4	
					5			0.0 0.0	6					
					7	0.0 0.0			8					
	MILLING MACHINE 3	--	20	3	9		0.0 0.0		10	3	20	--	MILLING MACHINE 2	
					11			0.0 0.0	12					
					13	0.0 0.0			14	2	20	--	SPARE	
	MILLING MACHINE 1	--	20	3	15		0.0 0.0		16					
					17			0.0 0.0	18	2	20	--	SPARE	
					19	0.0 0.0			20					
	JOURNEYMAN 350 TREE	--	60	3	21		0.0 0.0		22					
					23			0.0 0.0	24	3	20	--	HAAS HL-2 CC MILL	
					25	0.0 0.0			26					
	HAAS VF-1 CC MILL	--	60	3	27		0.0 0.0		28	1	20	--	SPARE	
					29			0.0 0.0	30	1	20	--	SPARE	
	SPARE	--	20	1	31	0.0 0.0			32	1	20	--	SPARE	
	SPARE	--	20	1	33		0.0 0.0		34	1	20	--	SPARE	
	SPARE	--	20	1	35			0.0 0.0	36	1	20	--	SPARE	
					37	0.0 0.0			38					
	SMALL GRINDER	--	20	3	39		0.0 0.0		40	3	20	--	BAND SAW	
					41			0.0 0.0	42					
						0.0 kVA	0.0 kVA	0.0 kVA						
						0 A	0 A	0 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT:	0 A
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RP10 | **MAINS TYPE:** MCB | **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W | **SPD:** | **LOCATION:** MTT STORAGE 125A
AMPERES: 225 A | **MOUNTING:** SURFACE | **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	0.0 0.0			2					
	DRILL PRESS	--	30	3	3		0.0 0.0		4	3	30	--	DRILL PRESS	
					5			0.0 0.0	6					
					7	0.0 0.0			8					
	BAND SAW	--	30	3	9		0.0 0.0		10	3	30	--	BAND SAW	
					11			0.0 0.0	12					
	RECEPTACLE MTT LAB	--	20	1	13	0.0 0.0			14	1	20	--	RECEPTACLE MTT LAB	
	RECEPTACLE MTT LAB	--	20	1	15		0.0 0.0		16	1	20	--	SANDER	
	RECEPTACLE MTT LAB	--	20	1	17			0.0 0.0	18	1	20	--	SANDER	
	RECEPTACLE MTT LAB	--	20	1	19	0.0 --			20	1	--	--	SPACE	
	SPACE	--	--	1	21		-- --		22	1	--	--	SPACE	
	SPACE	--	--	1	23			-- --	24	1	--	--	SPACE	
	SPACE	--	--	1	25	-- --			26	1	--	--	SPACE	
	SPACE	--	--	1	27		-- --		28	1	--	--	SPACE	
	SPACE	--	--	1	29			-- --	30	1	--	--	SPACE	
	CORD REELS	--	20	1	31	0.0 0.0			32	1	20	--	SPARE (CONFIRM THIS)	
	SPARE (CONFIRM THIS)	--	20	1	33		0.0 0.0		34	1	20	--	SPARE (CONFIRM THIS)	
	SPARE (CONFIRM THIS)	--	20	1	35			0.0 0.0	36	1	20	--	SPARE (CONFIRM THIS)	
	SPACE	--	--	1	37	-- --			38	1	--	--	SPACE	
	SPACE	--	--	1	39		-- --		40	1	--	--	SPACE	
	SPACE	--	--	1	41			-- --	42	1	--	--	SPACE	
						0.0 kVA	0.0 kVA	0.0 kVA						
						0 A	0 A	0 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT:	0 A
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RP11 | **MAINS TYPE:** MCB | **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W | **SPD:** | **LOCATION:** WELDING LAB 130
AMPERES: 225 A | **MOUNTING:** SURFACE | **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	0.0 0.0			2					
	PANEL CUTTER	--	100	3	3		0.0 0.0		4	3	20	--	DRILL PRESS	
					5			0.0 0.0	6					
					7	0.0 0.0			8	1	20	--	RECEPTACLE WELDING LAB	
	METAL SHEER	--	60	3	9		0.0 0.0		10	1	20	--	RECEPTACLE WELDING LAB	
					11			0.0 0.0	12	1	20	--	RECEPTACLE WELDING LAB	
	RECEPTACLE WELDING LAB	--	20	1	13	0.0 0.0			14	2	80	--	WELDER	
	WELDER	--	70	2	15		0.0 0.0		16					
					17			0.0 0.0	18					
					19	0.0 0.0			20	3	20	--	BAND SAW	
	IRON WORKER	--	20	3	21		0.0 0.0		22					
					23			0.0 0.0	24	2	60	--	WELDER	
	SPACE	--	--	1	25	-- 0.0			26					
	SPACE	--	--	1	27		-- --		28	1	--	--	SPACE	
	SPACE	--	--	1	29			-- --	30	1	--	--	SPACE	
	SPARE	--	20	1	31	0.0 0.0			32	1	20	--	SPARE	
	SPARE	--	20	1	33		0.0 0.0		34	1	20	--	SPARE	
	CORD REELS	--	20	1	35			0.0 0.0	36	1	20	--	SPARE	
	SPACE	--	--	1	37	-- --			38	1	--	--	SPACE	
	SPACE	--	--	1	39		-- --		40	1	--	--	SPACE	
	SPACE	--	--	1	41			-- --	42	1	--	--	SPACE	
						0.0 kVA	0.0 kVA	0.0 kVA						
						0 A	0 A	0 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT:	0 A
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: LP1 | **MAINS TYPE:** MCB | **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: None,Not ComputedP,Not ComputedW | **SPD:** | **LOCATION:** EQUIPMENT MEZZANINE 200
AMPERES: 1 A | **MOUNTING:** SURFACE | **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	LTG RM 132-133	--	20	1	1	0.0 0.0			2	1	20	--	LTG RM 109-111	
	LTG 112, 115	--	20	1	3		0.0 0.0		4	1	20	--	LTG RM 115C, 116-119, 128-131	
	LTG RM 130	--	20	1	5			0.0 0.0	6	1	20	--	LTG RM 130	
	LTG RM 125	--	20	1	7	0.0 0.0			8	1	20	--	LTG RM 125	
	LTG RM 120	--	20	1	9		0.0 0.0		10	1	20	--	LTG RM 120	
	LTG RM 125-127, 130B	--	20	1	11			0.0 0.0	12	1	20	--	LTG RM 121, 122, 123A, 124, 125A	
	LTG RM 123	--	20	1	13	0.0 0.0			14	1	20	--	LTG RM 123	
	LTG CORR CB, CC	--	20	1	15		0.0		16					
	ALT LTG RM 113-114	--	20	1	17			0.0 0.0	18	1	20	--	LTG EXTERIOR	
	LTG AUTO PLATFORM	--	20	1	19	0.0 0.0			20	1	20	--	LTG MEZZANINE	
	LTG EXTERIOR	--	20	1	21		0.0 0.0		22	1	20	--	LTG EXTERIOR	
					23				24					
					25				26					
					27				28					
					29				30					
	SPARE	--	20	1	31	0.0 0.0			32	1	20	--	SPARE	
	SPARE	--	20	1	33		0.0 0.0		34	1	20	--	SPARE	
	SPARE	--	20	1	35			0.0 0.0	36	1	20	--	SPARE	
	SPACE	--	--	1	37	-- --			38	1	--	--	SPACE	
	SPACE	--	--	1	39		-- --		40	1	--	--	SPACE	
	SPACE	--	--	1	41			-- --	42	1	--	--	SPACE	
						0.0 kVA	0.0 kVA	0.0 kVA						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	Not Computed
				TOTAL ESTIMATED DEMAND CURRENT:	Not Computed
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: MHP1 | **MAINS TYPE:** MCB | **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: None,Not ComputedP,Not ComputedW | **SPD:** | **LOCATION:** EQUIPMENT MEZZANINE 200
AMPERES: 1 A | **MOUNTING:** SURFACE | **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	0.0 0.0			2					
	HP-1	--	20	3	3		0.0 0.0		4	3	20	--	HP-3A	
					5			0.0 0.0	6					
					7	0.0 0.0			8					
	HP-2A	--	20	3	9		0.0 0.0		10	3	20	--	HP-3B	
					11			0.0 0.0	12					
					13	0.0 0.0			14					
	HP-2B	--	20	3	15		0.0 0.0		16	3	20	--	CA-1	
					17			0.0 0.0	18					
					19	0.0 0.0			20					
	VE-1	--	20	3	21		0.0 0.0		22	3	20	--	WE-1	
					23			0.0 0.0	24					
					25	0.0 0.0			26					
	ERV-1	--	20	3	27		0.0 0.0		28	3	20	--	WE-1	
					29			0.0 0.0	30					
	SPARE	--	20	1	31	0.0 0.0			32	1	20	--	SPARE	
	SPARE	--	20	1	33		0.0 0.0		34	1	20	--	SPARE	
	SPARE	--	20	1	35			0.0 0.0	36	1	20	--	SPARE	
	SPACE	--	--	1	37	-- --			38	1	--	--	SPACE	
	SPACE	--	--	1	39		-- --		40	1	--	--	SPACE	
	SPACE	--	--	1	41			-- --	42	1	--	--	SPACE	
						0.0 kVA	0.0 kVA	0.0 kVA						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	Not Computed
				TOTAL ESTIMATED DEMAND CURRENT:	Not Computed
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: MP1 | **MAINS TYPE:** MCB | **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W | **SPD:** | **LOCATION:** EQUIPMENT MEZZANINE 200
AMPERES: 1 A | **MOUNTING:** SURFACE | **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1				2					
					3				4					
					5				6					
					7				8					
					9				10					
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
					31				32					
					33				34					
					35				36					
					37				38					
					39				40					
					41				42					
						0.0 kVA	0.0 kVA	0.0 kVA						
						0 A	0 A	0 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT:	0 A
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RP3 | **MAINS TYPE:** MCB | **PANEL INTERRUPTING RATING:** <ENGINEER TO SPECIFY>
VOLTAGE: 208Y/120V,3P,4W | **SPD:** | **LOCATION:** EQUIPMENT MEZZANINE 200
AMPERES: 1 A | **MOUNTING:** SURFACE | **SUPPLY FROM:**

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	RCPT RM 129	--	20	1	1	0.0 0.0			2	1	20	--	MDF RACKS	
	RCPT RM 129	--	20	1	3		0.0 0.0		4	1	20	--	MDF RACKS	
	RCPT RM 129	--	20	1	5			0.0 0.0	6	1	20	--	MDF RACKS	
	RCPT RM 129	--	20	1	7	0.0 0.0			8	1	20	--	MDF RACKS	
	RCPT RM 129	--	20	1	9		0.0 0.0		10	1	20	--	MDF RACKS	
	RCPT RM 128	--	20	1	11			0.0 0.0	12	1	20	--	CORRIDOR RCPT	
	RCPT RM 128	--	20	1	13	0.0 0.0			14	1	20	--	RCPT	
	COPIER RCPT RM 128	--	20	1	15		0.0 0.0		16	2	20	--	AC-1	
	RCPT RM 128	--	20	1	17			0.0 0.0	18					
	MDF RCPT RM 131	--	20	1	19	0.0 0.0			20	1	20	--	FIRE ALARM CONTROL PANEL	
	MDF RCPT RM 131	--	20	1	21		0.0		22					
	MDF RCPT RM 131	--	20	1	23			0.0	24					
	WELDING LTG RM 130	--	20	1	25	0.0			26					
					27				28					
					29				30					
	SPARE	--	20	1	31	0.0 0.0			32	1	20	--	SPARE	
	SPARE	--	20	1	33		0.0 0.0		34	1	20	--	SPARE	
	SPARE	--	20	1	35			0.0 0.0	36	1	20	--	SPARE	
	SPACE	--	--	1	37	-- --			38	1	--	--	SPACE	
	SPACE	--	--	1	39		-- --		40	1	--	--	SPACE	
	SPACE	--	--	1	41			-- --	42	1	--	--	SPACE	
						0.0 kVA	0.0 kVA	0.0 kVA						
						0 A	0 A	0 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT:	0 A
				25 % ADDITIONAL CAPACITY:	0 A
				TOTAL PANEL CURRENT:	0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

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PANEL SCHEDULES
MARION COUNTY ATC - RENOVATION & ADDITION
FOR:
MARION COUNTY BOARD OF EDUCATION
LEBANON, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
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Structural Engineer:
Structural Design Group, Inc.
p 615.255.5537

BG

Project No: 25015/XMTC25
Drawn By: TSW
Rev'd By: GMB

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PANEL SCHEDULES

DATE ISSUED:
12/04/2025

REVISIONS

#	DATE	DESCRIPTION

ONE-LINE DIAGRAM LINETYPE LEGEND

- NEW
- NEW ENCLOSURE
- EXISTING
- EXISTING ENCLOSURE
- DEMOLITION

THREE PHASE DRY TYPE TRANSFOMER SCHEDULE

GENERAL NOTES:
A. UTILIZE PRIMARY AND SECONDARY FEEDER SIZES BELOW UNLESS OTHERWISE NOTED ON RISER DIAGRAM.
B. CONFIRM / COORDINATE TRANSFORMER AND TERMINAL BREAKERS' LUG SIZES WITH CONDUCTOR SIZES INDICATED.
C. COMPLY WITH NEC 240.87 FOR BREAKERS 1200A AND LARGER.
D. TRANSFORMER SECONDARY CONDUCTORS ARE ADJUSTED TO REFLECT THE NEUTRAL CONDUCTOR AS A CURRENT-CARRYING CONDUCTOR.

NOTES:
1. CONNECT GROUNDING ELECTRODE CONDUCTOR FROM TRANSFORMER X0 TERMINAL TO BUILDING STEEL IF AVAILABLE, OR TO OTHER BUILDING GROUND SYSTEM AS DESIGNATED.
2. CONDUCTOR SIZING BASED ON INDICATED TERMINAL BREAKER. REFER TO PANEL SCHEDULES AND/OR ONE-LINE DIAGRAM FOR FINAL SELECTION.
3. GROUNDING CONDUCTOR FROM TRANSFORMER TO PRIMARY OVERCURRENT DEVICE SIZED AS AN EQUIPMENT GROUNDING CONDUCTOR PER NEC TABLE 250.122.
4. BONDING CONDUCTOR FROM TRANSFORMER TO SECONDARY OVERCURRENT DEVICE SIZED AS A SEPARATELY DERIVED SYSTEM SUPPLY SIDE BONDING JUMPER PER NEC TABLE 250.66.

	PRIMARY - 480 DELTA			SECONDARY - 208Y/120V			
RATED KVA	**TERMINAL BREAKER (NOTE 2)**	**COPPER CONDUCTOR SIZE (NOTE 3)**	**CONDUIT SIZE**	**COPPER CONDUCTOR SIZE (NOTE 4)**	**CONDUIT SIZE**	**GROUNDING ELECTRODE CONDUCTOR SIZE (NOTE 1)**	**TERMINAL BREAKER (NOTE 2)**
9	20A/3P	3#12, #12G	3/4"	4#8, #8G	1"	#8	35A/3P
15	30A/3P	3#10, #10G	3/4"	4#6, #8G	1"	#8	60A/3P
30	50A/3P	3#8, #10G	3/4"	4#2, #8G	1 1/2"	#8	100A/3P
45	80A/3P	3#4, #8G	1"	4#2/0, #4G	2"	#4	175A/3P
75	150A/3P	3#1/0, #6G	1 1/2"	4 - 300KCMIL, #2G	2 1/2"	#2	250A/3P
112.5	250A/3P	3 - 250 KCMIL, #4G	2 1/2"	4#4/0, #2/0G (2 SETS)	2 1/2"	#2/0	400A/3P
150	300A/3P	3 - 300 KCMIL, #4G	2 1/2"	4 - 400 KCMIL, #2/0G (2 SETS)	3"	#2/0	600A/3P
225	400A/3P	3 - 500 KCMIL, #3G	3"	4 - 350 KCMIL, #2/0G (3 SETS)	3"	#2/0	800A/3P
300	500A/3P	3#4/0, #2G (2 SETS)	2"	4 - 400 KCMIL, #3/0G (4 SETS)	3"	#3/0	1200A/3P

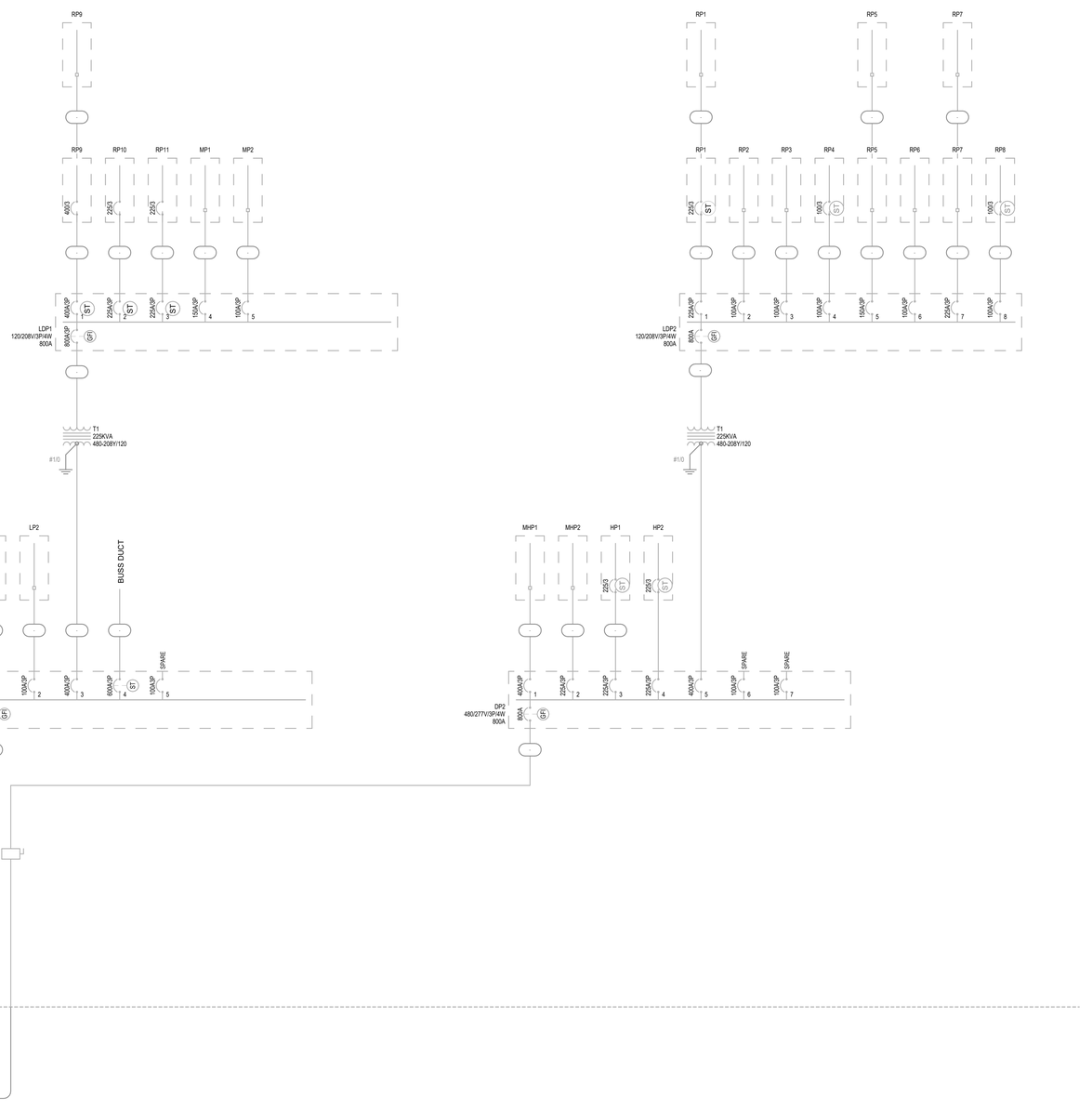
ONE-LINE FEEDER SCHEDULE (COPPER)

NOTES:
• TAGS WITH SUFFIX "-3W" ARE THREE-WIRE, NO NEUTRAL.

TAG	OCPD SETTING	WIRE SIZE	EQUIP. GROUND SIZE	CONDUIT SIZE
-	-	-	-	-
1	20/3 (4W)	(4) #12	(1) #12	3/4"
11	20/3 (4W)	(4) #12	(1) #12	3/4"
20	20/3 (4W)	(4) #12	(1) #12	3/4"
30	30/3 (4W)	(4) #10	(1) #10	3/4"
50	40/3 OR 50/3 (4W)	(4) #8	(1) #10	1"
60	60/3 (4W)	(4) #6	(1) #10	1"
80	70/3 OR 80/3 (4W)	(4) #4	(1) #8	1-1/4"
100	90/3 OR 100/3 (4W)	(4) #3	(1) #8	1-1/4"
110	110/3 (4W)	(4) #2	(1) #6	1-1/2"
125	125/3 (4W)	(4) #1	(1) #6	1-1/2"
150	150/3 (4W)	(4) #1/0	(1) #6	2"
175	175/3 (4W)	(4) #2/0	(1) #6	2"
200	200/3 (4W)	(4) #3/0	(1) #6	2"
225	225/3 (4W)	(4) #4/0	(1) #4	2-1/2"
250	250/3 (4W)	(4) #250 KCMIL	(1) #4	3"
300	300/3 (4W)	(4) #350 KCMIL	(1) #4	3"
350	350/3 (4W)	(4) #500 KCMIL	(1) #3	3-1/2"
400	400/3 (4W)	(4) #500 KCMIL	(1) #3	3-1/2"
500	500/3 (4W)	2 RUNS OF (4) - #250 KCMIL/PHASE	(1) #2	3"
600	600/3 (4W)	2 RUNS OF (4) - #350 KCMIL/PHASE	(1) #1	3"
700	700/3 (4W)	2 RUNS OF (4) - #500 KCMIL/PHASE	(1) #1/0	3-1/2"
800	800/3 (4W)	2 RUNS OF (4) - #500 KCMIL/PHASE	(1) #1/0	3-1/2"
1000	1000/3 (4W)	3 RUNS OF (4) - #500 KCMIL/PHASE	(1) #2/0	3-1/2"
1200	1200/3 (4W)	4 RUNS OF (4) - #350 KCMIL/PHASE	(1) #3/0	3-1/2"
1600	1600/3 (4W)	5 RUNS OF (4) - #500 KCMIL/PHASE	(1) #4/0	3-1/2"
2000	2000/3 (4W)	6 RUNS OF (4) - #500 KCMIL/PHASE	(1) #250 KCMIL	3-1/2"
3000	3000/3 (4W)	8 RUNS OF (4) - #500 KCMIL/PHASE	(1) #400 KCMIL	3-1/2"
4000	4000/3 (4W)	11 RUNS OF (4) - #500 KCMIL/PHASE	(1) #500 KCMIL	3-1/2"
EX	EXISTING TO REMAIN			

TAGGED NOTES

(##)



1 ONE-LINE DIAGRAM
SCALE: NONE

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ONE-LINE DIAGRAM
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ONE-LINE DIAGRAM

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