GEOLOGICAL SURVEY REPLACEMENT OF HVAC AND UPGRADE LIGHTING BUEHLER & ANNEX BUILDINGS ROLLA, MISSOURI

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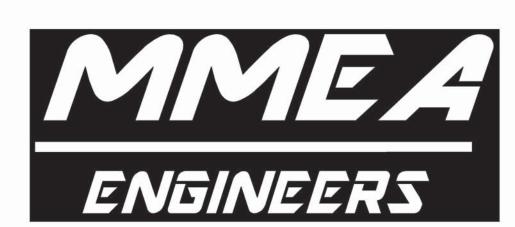


OWNER:

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR
DEPARTMENT OF
NATURAL RESOURCES

PROJECT
MANAGEMENT:

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION MECH / ELEC ENGINEER:



MID MISSOURI ENGINEERING ALLIANCE 203 Eastland Dr., Jefferson City, MO 65101 PHONE: 573.636.2116 EMAIL: WAYNE@MMEAENG.COM Missouri Certificate of Authority Number: 2018019632



Wayne A. Strope

The Engineer, whose signature appears on the mechanical, plumbing, & electrical drawings, assumes responsibility only for what appears on the drawings, and disclaims (pursuant to Section 327.11 RsMo) any responsibility for all other plans, specifications, estimates, reports, or other documents or instruments not sealed by the above Engineer relating to, or intended to be used for, any part or parts of the project to which these drawings refer.

SHEET INDEX

G-001	COVER SHEET
ME-101 ME-102 ME-103 ME-104	BASEMENT HVAC / POWER DEMOLITION 1ST FLOOR HVAC / POWER DEMOLITION HVAC / POWER DEMOLITION BASEMENT HVAC / POWER RENOVATION
ME-105 ME-106 ME-107 M-201	1ST FLOOR HVAC / POWER RENOVATION HVAC / POWER RENOVATION HVAC / POWER RENOVATION / DEMOLITION ROOF PLAN HVAC EQUIPMENT SCHEDULES
E -101 E -102 E -103 E -104 E -105 E -106	BASEMENT LIGHTING DEMOLITION 1ST FLOOR LIGHTING DEMOLITION LIGHTING DEMOLITION BASEMENT LIGHTING RENOVATION 1ST FLOOR LIGHTING RENOVATION LIGHTING RENOVATION
E - 201 ENGINE	EER: MID MO ENGINEERING ALLIANCE

PROJECT NUMBER: W2401-01

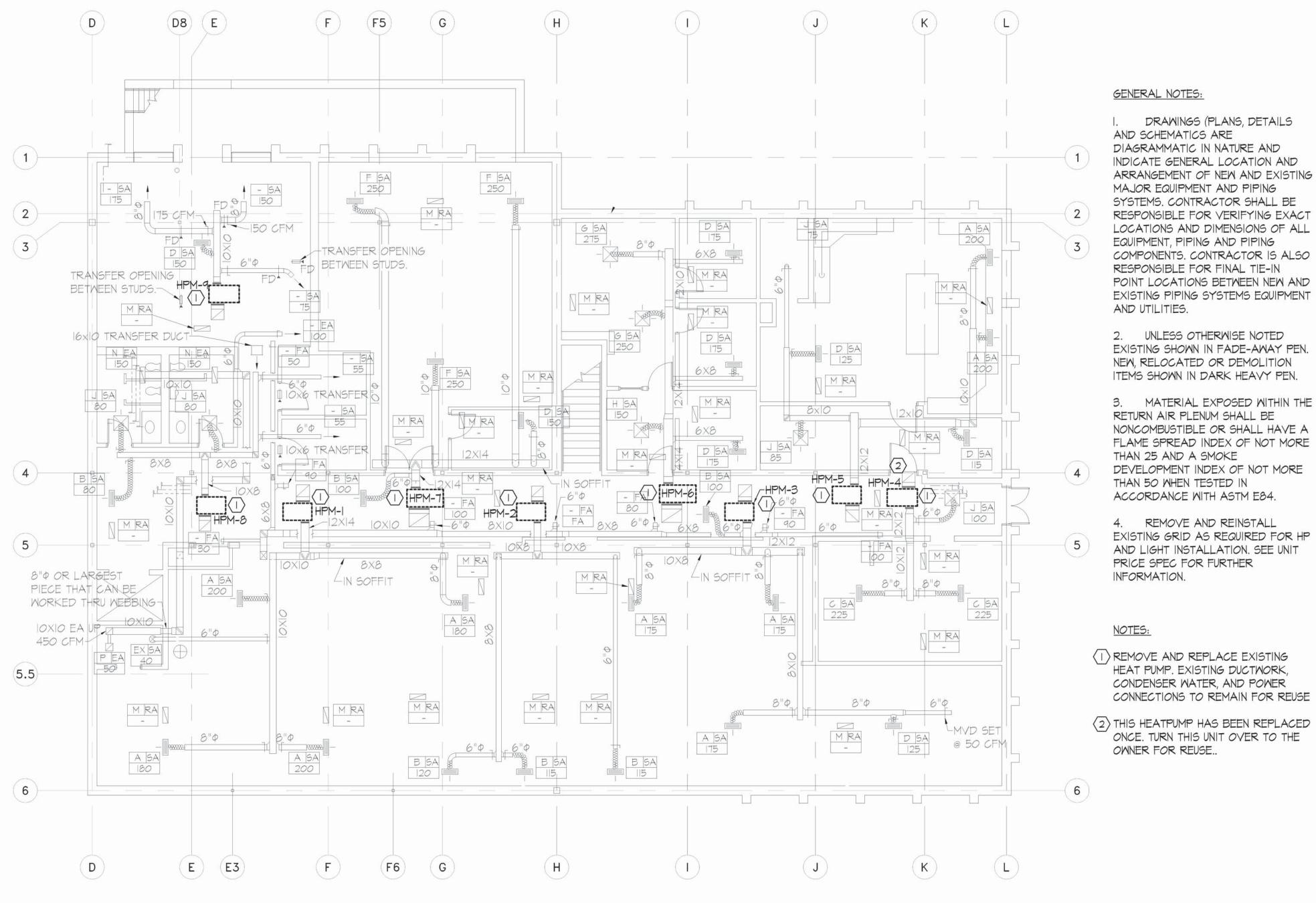
SITE NUMBER: 5001 ASSET NUMBER: 7815001007 ASSET NUMBER: 7815001008

SHEET NUMBER:

G-001

1 OF 16 SHEETS

AUGUST 14, 2025



MECHANICAL / ELECTRICAL DEMOLITION MAIN BASEMENT FLOOR PLAN SCALE: 1/8"=1'-0"

■ STATE OF MISSOURI MIKE KEHOE, **GOVERNOR**



CONSTRUCTION **DOCUMENTS**



203 Eastland Dr., Jefferson City, MO 65101 573.636.2116 WAYNE@MMEAENG.COM Missouri Certificate of Authority Number: 2018019632

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION **DEPARTMENT OF** NATURAL RESOURCES

GEOLOGICAL SURVEY -REPLACEMENT OF HVAC AND **UPGRADE LIGHTING BUEHLER & ANNEX BUILDINGS**

ROLLA, MISSOURI

PROJECT: W2401-01 SITE: 5001 ASSET: 7815001007

REVISION	DATE

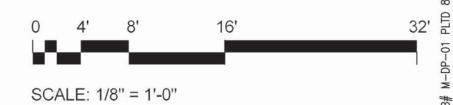
CAD DWG FILE: 24005 DRAWN BY: CHECKED BY: WS
DESIGNED BY: WS

SHEET TITLE: **BASEMENT** HVAC / POWER **DEMOLITION**

SHEET NUMBER:

ME-101

SHEET 2 OF 16 ISSUE DATE: AUGUST 14, 2025



DRAWINGS (PLANS, DETAILS

MATERIAL EXPOSED WITHIN THE

REMOVE AND REINSTALL

DIAGRAMMATIC IN NATURE AND INDICATE GENERAL LOCATION AND ARRANGEMENT OF NEW AND EXISTING MAJOR EQUIPMENT AND PIPING SYSTEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT LOCATIONS AND DIMENSIONS OF ALL EQUIPMENT, PIPING AND PIPING COMPONENTS. CONTRACTOR IS ALSO RESPONSIBLE FOR FINAL TIE-IN POINT LOCATIONS BETWEEN NEW AND EXISTING PIPING SYSTEMS EQUIPMENT IN ACCORDANCE WITH ASTM E84. AND UTILITIES.

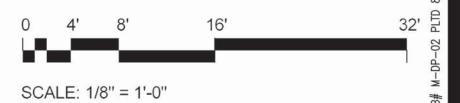
DRAWINGS (PLANS, DETAILS AND SCHEMATICS ARE 2. UNLESS OTHERWISE NOTED EXISTING SHOWN IN FADE-AWAY PEN. NEW, RELOCATED OR DEMOLITION ITEMS SHOWN IN DARK HEAVY PEN.

> MATERIAL EXPOSED WITHIN THE RETURN AIR PLENUM SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT INDEX OF NOT MORE THAN 50 WHEN TESTED

REMOVE AND REINSTALL EXISTING GRID AS REQUIRED FOR HP AND LIGHT INSTALLATION. SEE UNIT PRICE SPEC FOR FURTHER INFORMATION.



MECHANIACAL / ELECTRICAL DEMOLITION MAIN IST FLOOR PLAN



WHEN REPLACING IT.

STATE OF MISSOURI MIKE KEHOE, **GOVERNOR**



CONSTRUCTION **DOCUMENTS**



Jefferson City, MO 65101 573.636.2116 WAYNE@MMEAENG.COM Missouri Certificate of Authority Number 2018019632

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION **DEPARTMENT OF** NATURAL RESOURCES

GEOLOGICAL SURVEY -REPLACEMENT OF HVAC AND UPGRADE LIGHTING **BUEHLER & ANNEX BUILDINGS**

ROLLA, MISSOURI

PROJECT: W2401-01 SITE: 5001 ASSET: 7815001007

REVISION	DATE

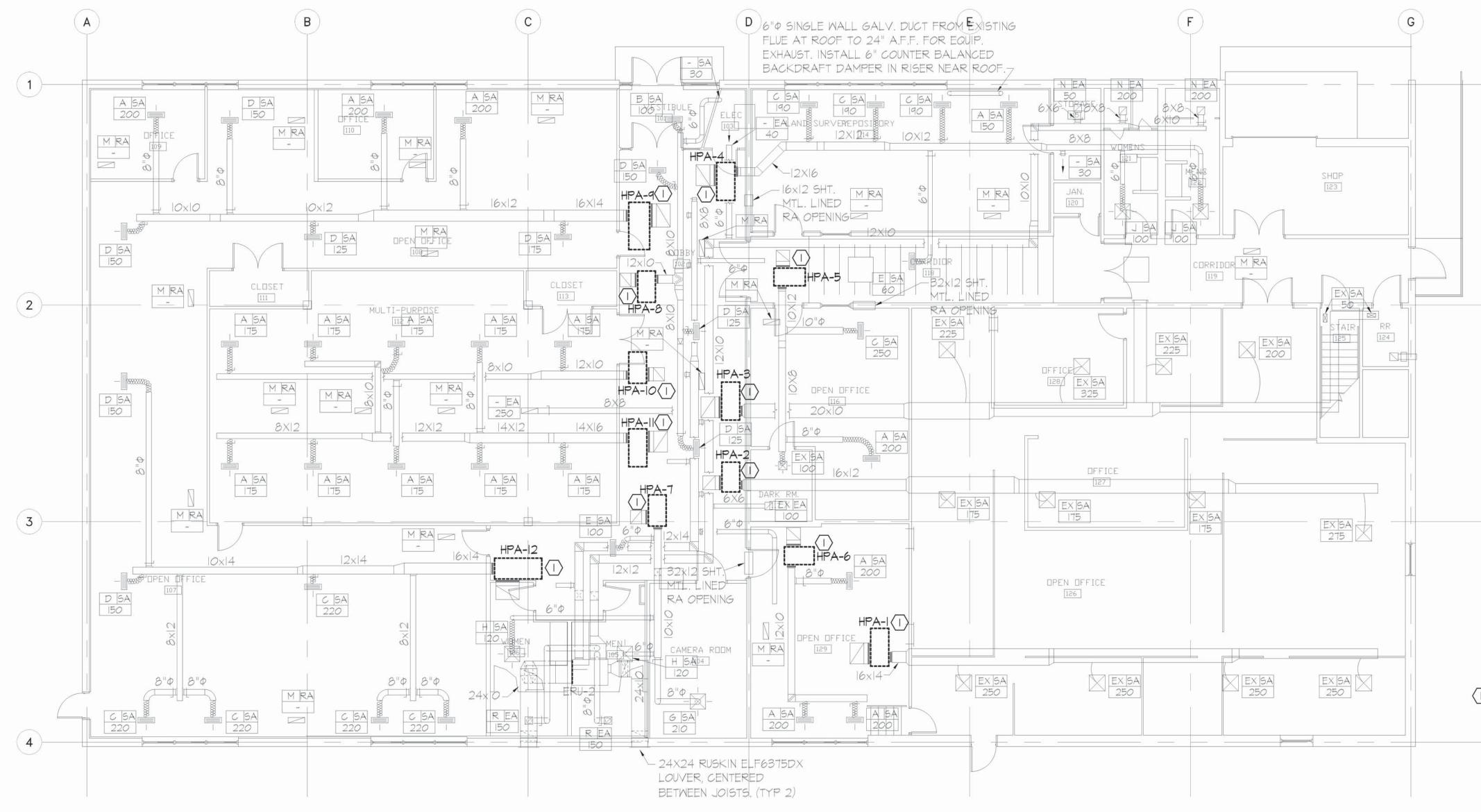
CAD DWG FILE: 24005 DRAWN BY: JS CHECKED BY: WS
DESIGNED BY: WS

SHEET TITLE: 1ST FLOOR HVAC / POWER **DEMOLITION**

SHEET NUMBER:

ME-102

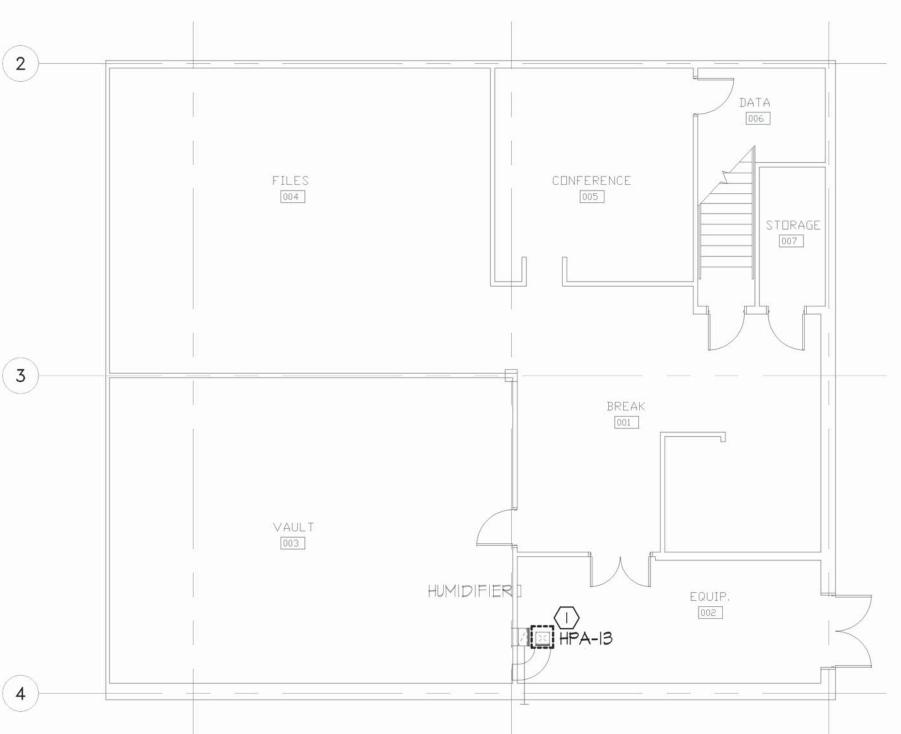
SHEET 3 OF 16 ISSUE DATE: AUGUST 14, 2025



MECHANICAL / ELECTRICAL DEMOLITION

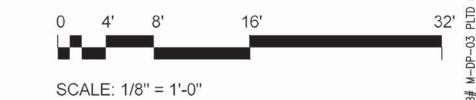
ANNEX IST FLOOR PLAN

SCALE: 1/8"=1'-0"



MECHANICAL / ELECTRICAL DEMOLITION
O2 ANNEX BASEMENT FLOOR PLAN

SCALE: 1/8"=1'-0"



GENERAL NOTES:

I. DRAWINGS (PLANS, DETAILS AND SCHEMATICS ARE DIAGRAMMATIC IN NATURE AND INDICATE GENERAL LOCATION AND ARRANGEMENT OF NEW AND EXISTING MAJOR EQUIPMENT AND PIPING SYSTEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT LOCATIONS AND DIMENSIONS OF ALL EQUIPMENT, PIPING AND PIPING COMPONENTS. CONTRACTOR IS ALSO RESPONSIBLE FOR FINAL TIE-IN POINT LOCATIONS BETWEEN NEW AND EXISTING PIPING SYSTEMS EQUIPMENT AND UTILITIES.

2. UNLESS OTHERWISE NOTED EXISTING SHOWN IN FADE-AWAY PEN. NEW, RELOCATED OR DEMOLITION ITEMS SHOWN IN DARK HEAVY PEN.

3. MATERIAL EXPOSED WITHIN THE RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84.

4. REMOVE AND REINSTALL EXISTING GRID AS REQUIRED FOR HP AND LIGHT INSTALLATION. SEE UNIT PRICE SPEC FOR FURTHER INFORMATION.

NOTES:

REMOVE AND REPLACE EXISTING
HEAT PUMP. EXISTING DUCTWORK,
CONDENSER WATER, AND POWER
CONNECTIONS TO REMAIN FOR REUSE.

STATE OF MISSOURI MIKE KEHOE, GOVERNOR



CONSTRUCTION DOCUMENTS



203 Eastland Dr., Jefferson City, MO 65101 573.636.2116 WAYNE@MMEAENG.COM Missouri Certificate of Authority Number: 2018019632

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN
AND CONSTRUCTION
DEPARTMENT OF
NATURAL RESOURCES

GEOLOGICAL SURVEY REPLACEMENT OF HVAC AND
UPGRADE LIGHTING
BUEHLER & ANNEX BUILDINGS

ROLLA, MISSOURI

PROJECT: W2401-01 SITE: 5001 ASSET: 7815001008

REVISION	DATE

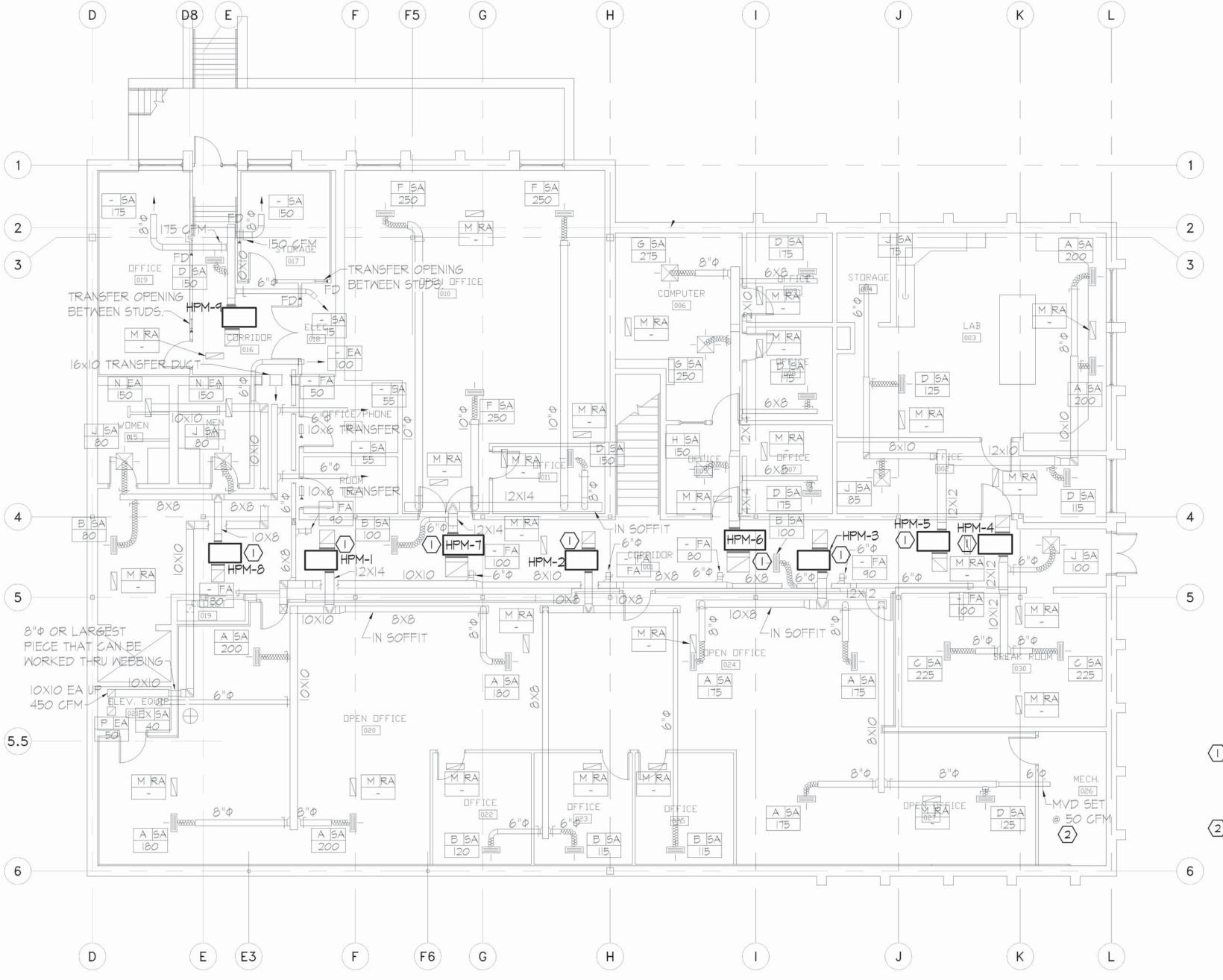
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DRAWN BY: JS
CHECKED BY: WS
DESIGNED BY: WS

SHEET TITLE:
ANNEX
HVAC / POWER
DEMOLITION

SHEET NUMBER:

ME-103

SHEET 4 OF 16 ISSUE DATE: AUGUST 14, 2025



MECHANICAL RENOVATION

SCALE: 1/8"=1'-0"

MAIN BASEMENT FLOOR PLAN

GENERAL NOTES:

I. DRAWINGS (PLANS, DETAILS AND SCHEMATICS ARE DIAGRAMMATIC IN NATURE AND INDICATE GENERAL LOCATION AND ARRANGEMENT OF NEW AND EXISTING MAJOR EQUIPMENT AND PIPING SYSTEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT LOCATIONS AND DIMENSIONS OF ALL EQUIPMENT, PIPING AND PIPING COMPONENTS. CONTRACTOR IS ALSO RESPONSIBLE FOR FINAL TIE-IN POINT LOCATIONS BETWEEN NEW AND EXISTING PIPING SYSTEMS EQUIPMENT AND UTILITIES.

2. UNLESS OTHERWISE NOTED EXISTING SHOWN IN FADE-AWAY PEN. NEW, RELOCATED OR DEMOLITION ITEMS SHOWN IN DARK HEAVY PEN.

- 3. MATERIAL EXPOSED WITHIN THE RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84.
- 4. REMOVE AND REINSTALL EXISTING GRID AS REQUIRED FOR HP AND LIGHT INSTALLATION. SEE UNIT PRICE SPEC FOR FURTHER INFORMATION.

NOTES:

- CONNECT NEW HEAT PUMP TO EXISTING DUCTWORK, CONDENSER WATER, AND POWER. MODIFY EXISTING DUCTWORK AS NEEDED.
- 2 REPLACE EXISTING 2" PRESSURE
 MAINTAINING BALL CONTROL VALVE
 W/ A NEW 2" CHARACTERIZED BALL
 CONTROL VALVE TO MAINTAIN
 PRESSURE ON OUTLET SIDE OF HEAT
 EXCHANGER @ IO PSI. ON WELL SIDE
 OF HX.

REVISION DATE

■ STATE OF MISSOURI

EXPIRES: 12-31-25

CONSTRUCTION

ENGINEERS

MID MISSOURI ENGINEERING ALLIANCE

Missouri Certificate of Authority Number

ADMINISTRATION

DEPARTMENT OF

GEOLOGICAL SURVEY -

UPGRADE LIGHTING

ROLLA, MISSOURI

SITE: 5001

PROJECT: W2401-01

ASSET: 7815001007

DIVISION OF FACILITIES

MANAGEMENT, DESIGN

AND CONSTRUCTION

NATURAL RESOURCES

REPLACEMENT OF HVAC AND

BUEHLER & ANNEX BUILDINGS

DOCUMENTS

203 Eastland Dr.,

573.636.2116

2018019632

OFFICE OF

Jefferson City, MO 65101

WAYNE@MMEAENG.COM

MIKE KEHOE,

GOVERNOR

CAD DWG FILE: 24005
DRAWN BY: JS
CHECKED BY: WS
DESIGNED BY: WS

SHEET TITLE:
BASEMENT
HVAC / POWER
RENOVATION

SHEET NUMBER:

ME-104

SHEET 5 OF 16 ISSUE DATE: AUGUST 14, 2025

0 4' 8' 16' 32'

SCALE: 1/8" = 1'-0"

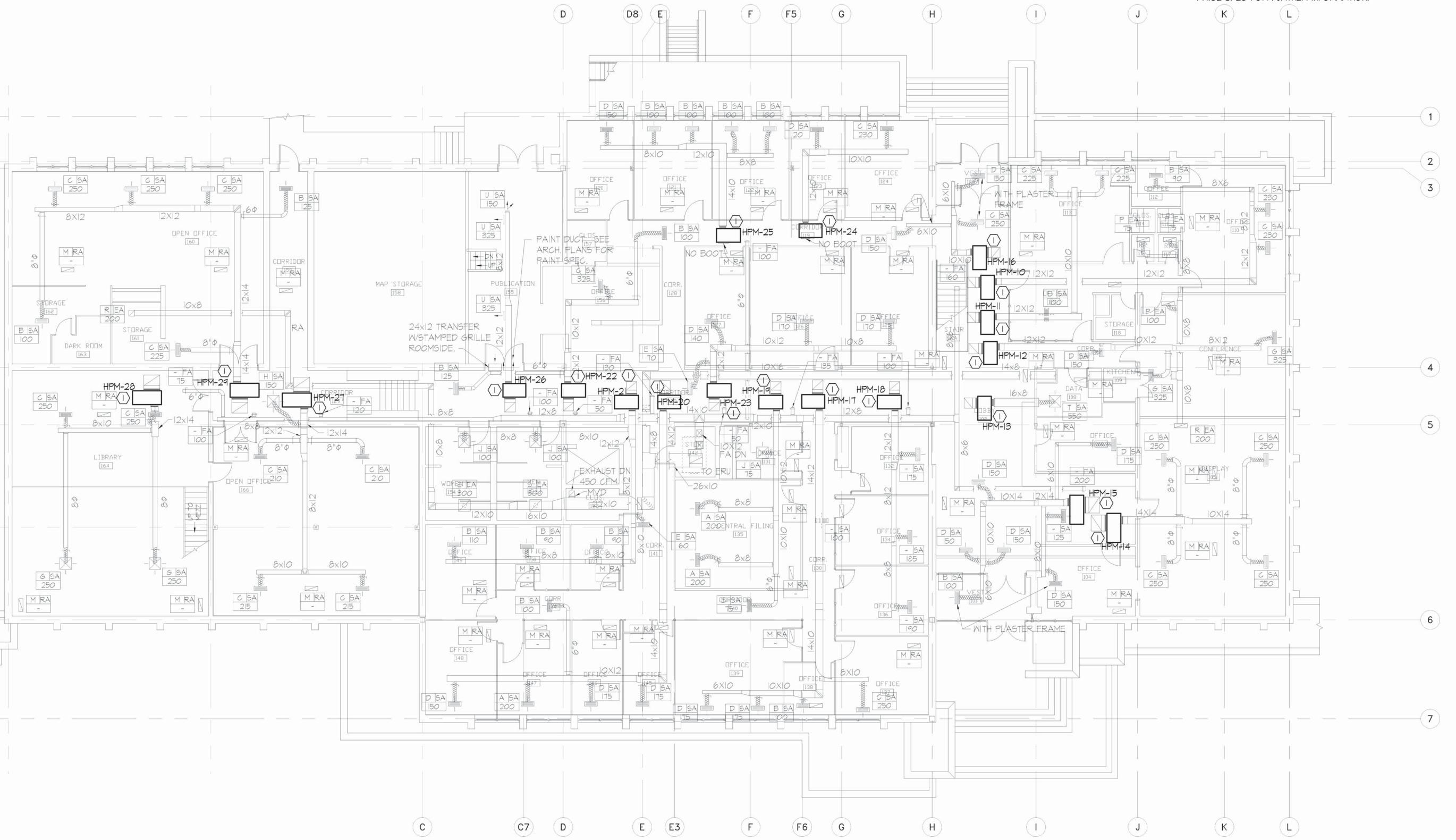
GENERAL NOTES:

DIAGRAMMATIC IN NATURE AND INDICATE GENERAL LOCATION AND ARRANGEMENT OF NEW AND EXISTING MAJOR EQUIPMENT AND PIPING SYSTEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT LOCATIONS AND DIMENSIONS OF ALL EQUIPMENT, PIPING AND PIPING COMPONENTS. CONTRACTOR IS ALSO RESPONSIBLE FOR FINAL TIE-IN POINT LOCATIONS BETWEEN NEW AND EXISTING PIPING SYSTEMS EQUIPMENT IN ACCORDANCE WITH ASTM E84. AND UTILITIES.

DRAWINGS (PLANS, DETAILS AND SCHEMATICS ARE 2. UNLESS OTHERWISE NOTED EXISTING SHOWN IN FADE-AWAY PEN. NEW, RELOCATED OR DEMOLITION ITEMS SHOWN IN DARK HEAVY PEN.

> MATERIAL EXPOSED WITHIN THE RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT INDEX OF NOT MORE THAN 50 WHEN TESTED

4. REMOVE AND REINSTALL EXISTING GRID AS REQUIRED FOR HP AND LIGHT INSTALLATION. SEE UNIT PRICE SPEC FOR FURTHER INFORMATION.



NOTES:

CONNECT NEW HEAT PUMP TO EXISTING DUCTWORK, CONDENSER WATER, AND POWER. MODIFY EXISTING DUCTWORK AS NEEDED.

SCALE: 1/8" = 1'-0"

STATE OF MISSOURI MIKE KEHOE, **GOVERNOR**



CONSTRUCTION **DOCUMENTS**



Jefferson City, MO 65101 573.636.2116 WAYNE@MMEAENG.COM Missouri Certificate of Authority Number: 2018019632

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION **DEPARTMENT OF** NATURAL RESOURCES

GEOLOGICAL SURVEY -REPLACEMENT OF HVAC AND UPGRADE LIGHTING **BUEHLER & ANNEX BUILDINGS**

ROLLA, MISSOURI

PROJECT: W2401-01 SITE: 5001 ASSET: 7815001007

REVISION	DATE

CAD DWG FILE: 24005 DRAWN BY: JS CHECKED BY: WS
DESIGNED BY: WS

SHEET TITLE: 1ST FLOOR HVAC / POWER RENOVATION

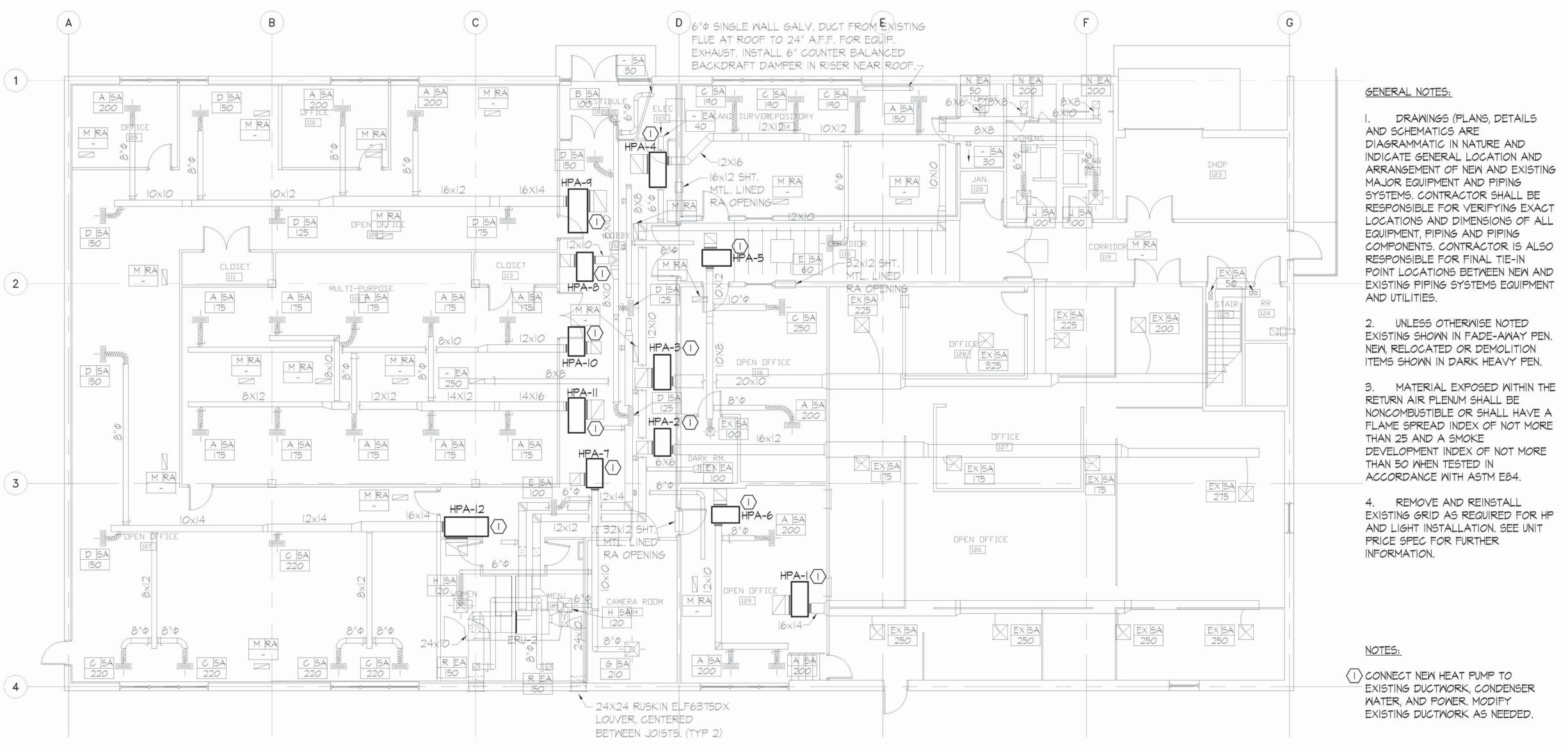
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ME-105

SHEET 6 OF 16 ISSUE DATE: AUGUST 14, 2025

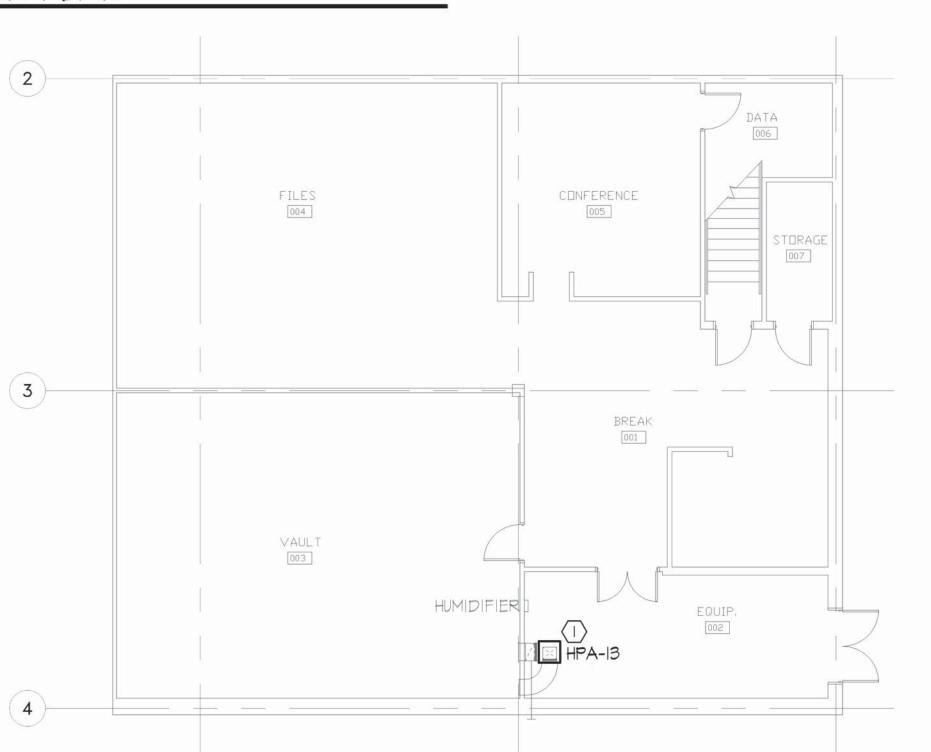
MECHANICAL / ELECTRICAL RENOVATION MAIN IST FLOOR PLAN

5.5



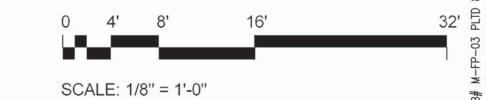
MECHANICAL / ELECRICAL RENOVATION
OI ANNEX IST FLOOR PLAN

SCALE: 1/8"=1'-0"



MECHANICAL / ELECTRICAL RENOVATION
O2 ANNEX BASEMENT FLOOR PLAN

SCALE: 1/8"=1'-0"



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



CONSTRUCTION DOCUMENTS



MID MISSOURI ENGINEERING ALLIAN 203 Eastland Dr., Jefferson City, MO 65101 573.636.2116 WAYNE@MMEAENG.COM Missouri Certificate of Authority Number: 2018019632

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN
AND CONSTRUCTION
DEPARTMENT OF
NATURAL RESOURCES

GEOLOGICAL SURVEY -REPLACEMENT OF HVAC AND UPGRADE LIGHTING BUEHLER & ANNEX BUILDINGS

ROLLA, MISSOURI

PROJECT: W2401-01 SITE: 5001 ASSET: 7815001008

REVISION	DATE

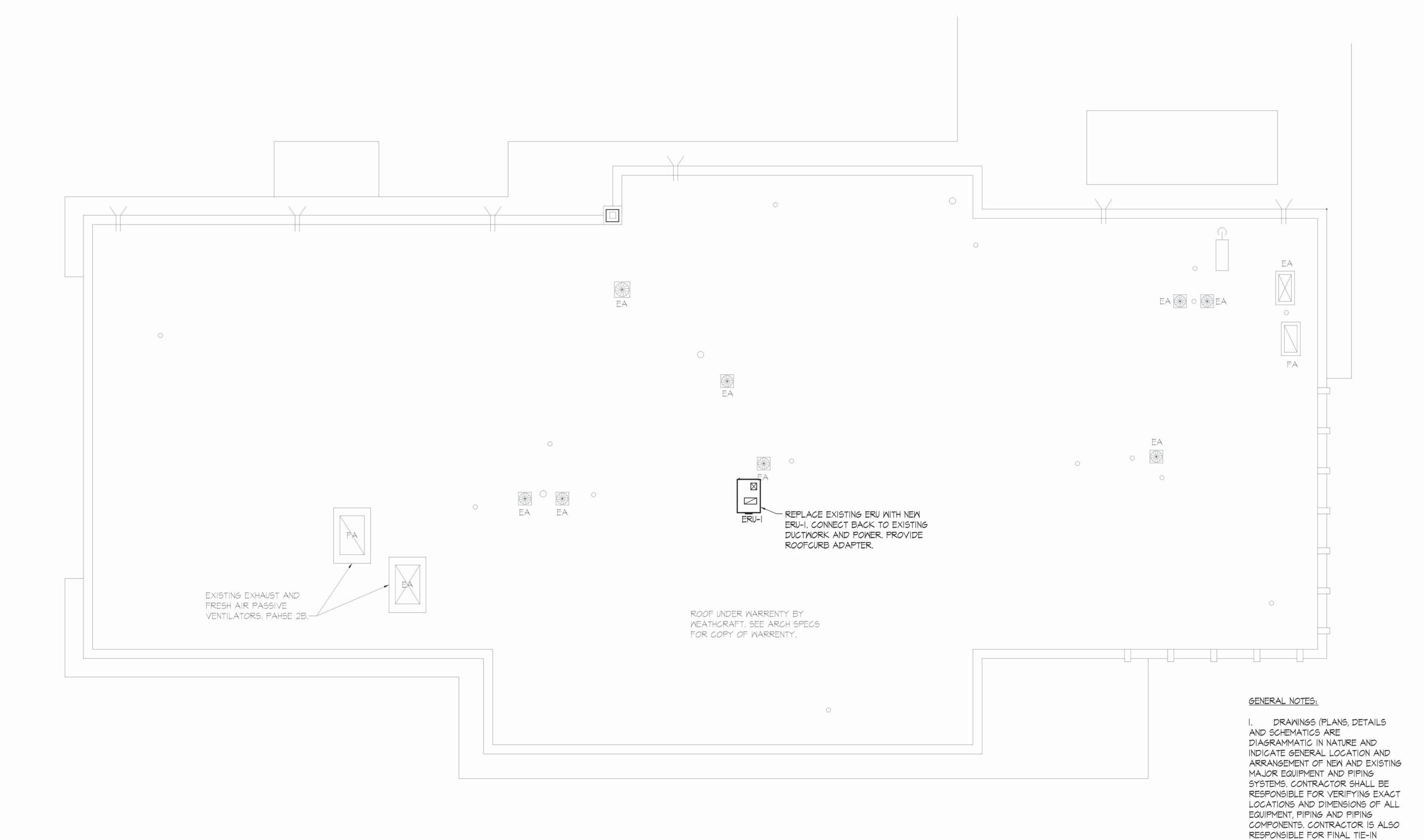
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DRAWN BY: JS
CHECKED BY: WS
DESIGNED BY: WS

SHEET TITLE:
ANNEX
HVAC / POWER
RENOVATION

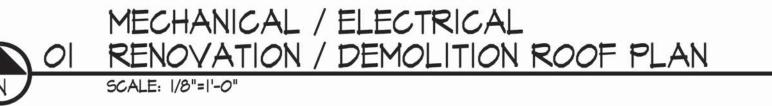
SHEET NUMBER:

ME-106

SHEET 7 OF 16 ISSUE DATE: AUGUST 14, 2025



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







CONSTRUCTION DOCUMENTS



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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION **DEPARTMENT OF** NATURAL RESOURCES

GEOLOGICAL SURVEY -REPLACEMENT OF HVAC AND **UPGRADE LIGHTING BUEHLER & ANNEX BUILDINGS**

ROLLA, MISSOURI

PROJECT: W2401-01 SITE: 5001 ASSET: 7815001007

REVISION	DATE

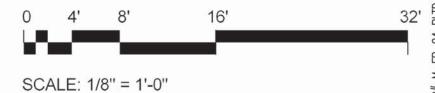
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DESIGNED BY: WS

SHEET TITLE: HVAC / POWER **ROOF** RENOVATION / **DEMOLITION**

SHEET NUMBER:

ME-107

SHEET 8 OF 16 ISSUE DATE: AUGUST 14, 2025



POINT LOCATIONS BETWEEN NEW AND EXISTING PIPING SYSTEMS EQUIPMENT

3. MATERIAL EXPOSED WITHIN THE

NONCOMBUSTIBLE OR SHALL HAVE A

FLAME SPREAD INDEX OF NOT MORE

DEVELOPMENT INDEX OF NOT MORE

2. UNLESS OTHERWISE NOTED EXISTING SHOWN IN FADE-AWAY PEN. NEW, RELOCATED OR DEMOLITION ITEMS SHOWN IN DARK HEAVY PEN.

RETURN AIR PLENUM SHALL BE

THAN 25 AND A SMOKE

THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84.

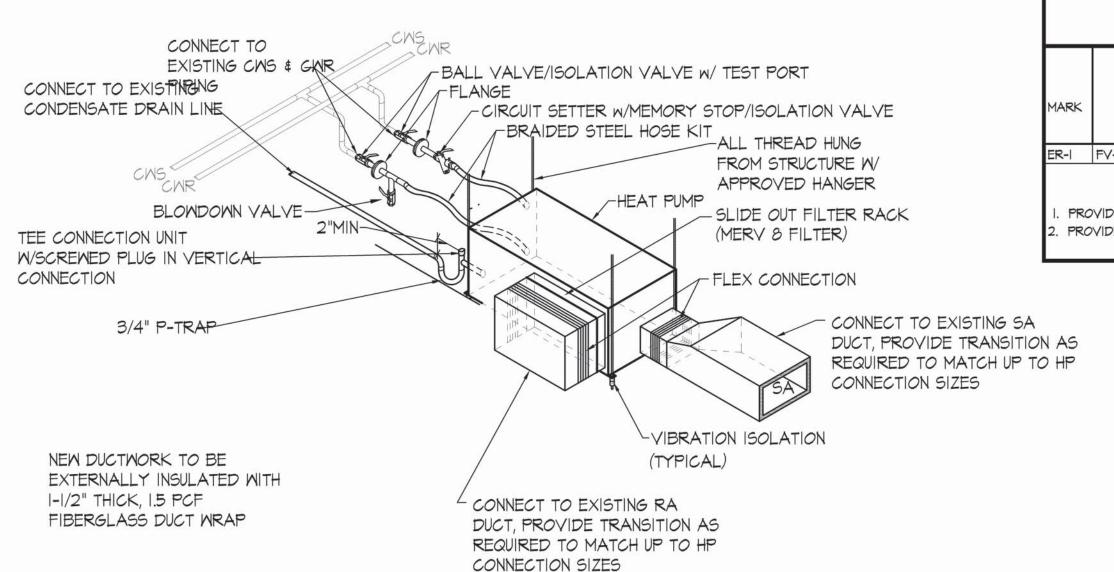
AND UTILITIES.

HEAT PUMP UNIT SCHEDULE COOLING HEATING ELECTRICAL WATER B\$G CFM ESP ELECTRONIC MARK MANUFACTURER MODEL CONFIGURATION CAPACITY (MBH) HEAT EAT (°F) EMT LMT EER CAP. TOTAL HEAT OF EAT EMT LMT COP GPM FT PIPING MCA MAX REJECTION NUMBER IN W.C. FILTER SIZE TOTAL SENSIBLE DB (° F) (° F) (MBH) ABSORBTION | DB (°F) ORIEN. / RETURN MB 78 HPM-I WATERFURNACE V5AH024 800 0.30 HORZ. / L.H. 20x20x1 23,715 18,787 28,959 64 73 85.1 15.4 24,322 70 50 42.4 3.9 4.8 3/4" N/A 90 208 14.7 20 18,143 WATERFURNACE 0.59 10,590 78 64 73 9,950 70 50 V5AH009 350 HORZ. / L.H. 20x20x1 8,552 12,750 85.8 7,418 2.0 N/A 45 6.6 HPM-3 WATERFURNACE V5AH024 800 0.30 HORZ. / L.H. 20×20×1 23,715 18,787 28,959 78 64 73 15.4 24,322 18,143 70 50 4.8 N/A 90 14.7 20 DE-SUPER HEATER (HR002) 5,700 BTH 73 83.9 9.2 HPM-4 WATERFURNACE V5AHO18 550 HORZ. / L.H. 20x20x1 16,592 13,234 19,694 78 64 18.3 14,951 11,532 70 50 3.6 N/A 50 0.41 73 20 HPM-5 WATERFURNACE V5AH024 800 0.30 HORZ. / R.H. 20x20x1 23,715 18,787 28,959 78 64 15.4 24,322 18,143 70 50 4.8 N/A 50 14.7 73 TWO 18x20x1 33,373 78 64 84.3 32,699 70 50 15.2 20 DE-SUPER HEATER (HROO2) 8,575 BTH HPM-6 WATERFURNACE **V5AH036** 1,200 0.43 HORZ. / L.H. 26,951 40,634 15.7 24,930 N/A 1,000 73 14.7 20 HPM-7 WATERFURNACE V5AH030 HORZ. / L.H. 27,246 22,004 32,787 78 83.9 16.8 26,215 20,473 70 50 6.0 N/A 100 208 0.48 TWO 18x20x1 4.6 HPM-8 WATERFURNACE 350 0.59 HORZ. / L.H. 20x20x1 10,590 8,552 12,750 78 64 73 85.8 16.7 9,950 7,418 70 50 14.7 V5AH009 N/A 73 83.9 18.3 11,532 9.2 HPM-9 WATERFURNACE V5AHO18 550 0.41 HORZ. / L.H. 20x20x1 16,592 13,234 19,694 78 64 14,951 70 50 3.6 N/A 50 73 18.3 11,532 70 9.2 HPM-10 WATERFURNACE V5AHO18 550 HORZ. / L.H. 20x20x1 16,592 13,234 19,694 78 64 83.9 14,951 50 3.6 N/A 0.41 HPM-II WATERFURNACE V5AHO18 HORZ. / L.H. 20×20×1 16,592 13,234 19,694 78 64 73 83.9 18.3 14,951 70 50 N/A 20 208 9.2 0.41 3.6 4.1 WATERFURNACE V5AH024 800 0.30 HORZ. / L.H. 20x20x1 23,715 18,787 28,959 78 64 73 15.4 24,322 18,143 70 50 4.8 3/4" N/A 14.7 20 HPM-13 WATERFURNACE 550 HORZ. / L.H. 20x20x1 16,592 13,234 19,694 78 73 83.9 18.3 14,951 11,532 70 50 9.2 V5AHO18 0.41 64 4.4 3.6 N/A 208 HPM-14 WATERFURNACE **V5AH030** HORZ. / L.H. TWO 18x20x1 27,246 22,004 32,787 78 73 83.9 26,215 20,473 70 208 14.7 20 1,000 0.48 64 16.8 50 6.0 4.6 N/A 160 4.6 27,246 70 HPM-15 WATERFURNACE **V5AH030** 1,000 HORZ. / R.H. TWO 18x20x1 22,004 32,787 78 73 83.9 16.8 26,215 20,473 50 40 208 14.7 20 0.48 64 4.6 6.0 4.6 N/A HPM-16 WATERFURNACE V5AHO18 0.41 HORZ. / R.H. 20x20x1 16,592 13,234 19,694 78 64 73 83.9 18.3 14,951 11,532 70 50 3.6 N/A 9.2 24,322 HPM-IT 0.30 HORZ. / L.H. 23,715 18,787 28,959 78 73 85.1 70 50 14.7 20 WATERFURNACE V5AH024 800 20x20x1 64 15.4 18,143 4.8 3/4" N/A 100 78 73 70 9.2 HPM-18 WATERFURNACE 550 HORZ. / L.H. 20x20x1 16,592 13,234 19,694 83.9 18.3 14,951 11,532 50 100 V5AHO18 0.41 3.6 16,592 73 83.9 11,532 70 35 9.2 HPM-19 WATERFURNACE V5AHO18 550 HORZ. / L.H. 20x20x1 13,234 19,694 78 18.3 14,951 50 3.6 0.41 N/A HPM-20 23,715 24,322 70 20 WATERFURNACE V5AH024 800 0.30 HORZ. / R.H. 20×20×1 18,787 28,959 78 64 73 15.4 18,143 70 50 3.9 4.8 3.1 3/4" N/A 14.7 HPM-2 HORZ. / L.H. 16,592 73 83.9 18.3 14,951 11,532 70 9.2 WATERFURNACE V5AHO18 550 0.41 20×20×1 13,234 19.694 78 64 50 3.6 N/A HPM-22 WATERFURNACE V5AHO18 550 HORZ. / L.H. 16,592 13,234 78 64 73 83.9 18.3 11,532 70 50 3.6 50 9.2 0.41 20x20x1 19,694 14,951 N/A 4.4 HPM-23 WATERFURNACE V5AHOI8 550 HORZ. / L.H. 16,592 13,234 78 64 73 83.9 18.3 11,532 70 50 50 9.2 0.41 20x20x1 19,694 14,951 3.6 N/A 4.1 HORZ. / L.H. HPM-24 WATERFURNACE V5AH009 350 0.59 20x20x1 10,590 8,552 12,750 78 64 73 85.8 16.7 9,950 7,418 70 50 3.9 2.0 3.7 3/4" N/A 40 14.7 73 83.9 9.2 HPM-25 WATERFURNACE V5AHO18 550 0.41 HORZ. / L.H. 20x20x1 16,592 13,234 19,694 78 64 18.3 14,951 11,532 70 50 3.6 N/A 60 HPM-26 WATERFURNACE HORZ. / L.H. 20x20x1 23,715 18,787 28,959 78 64 73 24,322 70 50 3/4" 14.7 V5AH024 800 0.30 15.4 18,143 4.8 3.1 N/A 100 WATERFURNACE 27,246 78 64 73 83.9 20,473 50 14.7 20 **V5AH030** 1,000 0.48 HORZ. / L.H. TWO 18x20x1 22,004 32,787 16.8 26,215 70 6.0 N/A 120 4.6 70 TWO 18x20x1 HPM-28 WATERFURNACE **V5AH030** 1,000 0.48 HORZ. / L.H. 27,246 22,004 32,787 78 64 73 83.9 26,215 20,473 50 4.6 | 6.0 | 4.6 N/A 75 14.7 20 32,699 15.2 HPM-29 WATERFURNACE **V5AH036** 1,200 0.43 HORZ. / L.H. TWO 18x20x1 33,373 26,951 40,634 78 64 73 84.3 15.7 24,930 70 50 43.1 4.2 7.2 6.3 N/A 100 HPA-I WATERFURNACE V5AH030 HORZ. / R.H. TWO 18x20x1 26,194 20,976 32,339 85 95.0 24,870 19,203 70 6.5 5.3 PL-36 100 16.5 1,000 0.48 23,255 85 94.7 23,613 HPA-2 WATERFURNACE V5AH024 800 0.30 HORZ. / R.H. 20x20x1 17,994 28,960 78 13.9 17,488 70 46 6.0 PL-36 110 16.5 1,200 32,486 78 64 85 94.5 13.9 31,466 23,745 70 8.5 208 22.5 WATERFURNACE **V5AH036** 0.43 HORZ. / R.H. TWO 18x20x1 25,779 40,446 46 8.4 PL-36 100 30 DE-SUPER HEATER (HROO2) 8,575 BTH HPA-4 32,339 78 14.5 6.5 5.3 16.5 WATERFURNACE **V5AH030** 1,000 HORZ. / L.H. TWO 18x20x1 26,194 20,976 64 85 95.0 24,870 19,203 70 PL-36 120 0.48 46 4.4 WATERFURNACE V5AHO18 HORZ. / R.H. 20x20x1 15,413 12,158 18,880 78 64 85 94.4 14,332 10,951 70 4.0 4.9 PL-36 100 11.0 15 DE-SUPER HEATER (HROOI) 4,280 BTH 0.41 46 HPA-6 WATERFURNACE V5AH024 0.30 HORZ. / R.H. 20x20x1 23,255 17,994 28,960 78 13.9 23,613 17,488 70 3.9 | 6.0 | 4.6 PL-36 100 16.5 46 40.5 | 4.2 | 4.0 | 4.9 | 1" | PL-36 | 120 | 208 | 1 WATERFURNACE V5AHOI8 550 0.41 HORZ. / R.H. 20×20×1 15,413 12,158 18,880 78 64 14,332 10,951 70 46 11.0 15.2 HPA-8 0.41 HORZ. / L.H. 20x20x1 15,413 12,158 18,880 78 64 85 94.4 15.2 14,332 10,951 70 4.2 | 4.0 | 4.9 | I" | PL-36 | 120 | 208 11.0 WATERFURNACE V5AHO18 46 WATERFURNACE **V5AH036** 0.43 HORZ. / R.H. TWO 18x20x1 32,486 25,779 40,446 78 64 85 13.9 31,466 23,745 70 46 40.4 4.1 8.5 8.4 I" | PL-36 | 100 208 22.5 HPA-10 15,413 12,158 14,332 10,951 70 4.2 | 4.0 | 4.9 WATERFURNACE V5AHO18 550 0.41 HORZ. / L.H. 20x20x1 18,880 78 85 15.2 40.5 I" | PL-36 | 100 208 11.0 64 46 23,773 70 HPA-II WATERFURNACE HORZ. / R.H. TWO 18x20x1 32,546 25,795 78 31,498 22.5 30 **V5AH036** 0.43 40,499 64 85 94.4 14.0 46 4.1 8.6 8.6 PL-36 110 208 HPA-12 WATERFURNACE V5AH042 1,400 0.42 HORZ. / L.H. TWO 18x20x1 38,756 30,233 47,989 85 94.6 14.3 38,151 29,314 70 10.0 7.7 PL-36 100 25.7 35 64 46 4.3 14,332 HPA-13 WATERFURNACE 15,413 12,158 18,880 78 85 70 PL-30 30 11.0 V5AVOI8 550 0.41 VERT. 20x20x1 64 94.4 10,951 4.2 | 4.0 | 4.9 | 1" 208 15 HOT GAS REHEAT (75% OF SENS. CAP.)

PL-36 PUMPS TO BE 208V, IP, C.I. BODY, CAPABLE OF IO GPM @ 30' HEAD. PL-30 PUMP TO BE 208V, IP, C.I. BODY, CAPABLE OF 4 GPM @ 20' HEAD.

2. ALL HEAT PUMPS SUPPLIED WITH WATER LEVEL CUT-OFF (OVERFLOW) SWITCH IN EVAPORATOR COIL DRAIN PAN.

3. ALL HEAT PUMPS SUPPLIED WITH NEW SHUT-OFF BALL VALVES, MANUAL CIRCUIT SETTER, AND FLEX HOSE CONNECTORS.



ENERGY RECOVERY UNIT SCHEDULE																									
		FRESH AIR CON	IDITIONS		,	RETU	IRN AIR STRE	AM		T			SUP	PLY AIR STRE	EAM				1	ELECTR	ICAL				
					SUMMER	SUMMER	WINTER	WINTER			AIRFLOW	SUMMER	SUMMER	WINTER	WINTER										
MARK	MODEL	SUMMER	WINTER	AIRFLOW	EAT	LAT	EAT	LAT	E.S.P.	BLOWER		EAT	LAT	EAT	LAT	E.S.P.	BLOWER	VOLTS	PH	FLA	MCA	DISC.	BRKR.	AREA	REMARKS
		(DB/WB)	(DB/WB)	(CFM)	(DB/WB)	(DB/MB)	(DB/MB)	(DB/MB)	(IN M.C.)	(HP)	(CFM)	(DB/MB)	(DB/WB)	(DB/MB)	(DB/MB)	(IN M.C.)	(HP)					FUSE	SIZE	SERVED	
ER-I	FV-2000H	95/78	0/-0.5	1,700	75/63.5	90.3/74.7	70/51.1	16.3/14.3	0.55	2.0	1,900	95/77.6	81.3/68.4	0/-0.2	48.1/38.3	0.60	2.0	208	3	16.6	18.5	20	20	MAIN BLDG	NOTES 1,2

PROVIDE WITH ROOF CURB ADAPTER AND WP DISCONNECT WUNIT.

PROVIDE WITH STOP JOG ECONOMIZER CONTROLS, MOTORIZED OUTSIDE AIR DAMPER, GRAVITY BACKDRAFT EXHAUST DAMPER, AND I" THICK MERY & FILTERS.

0 4' 8' 16' 32' HE TO HE SCALE: 1/8" = 1'-0"

STATE OF MISSOURI MIKE KEHOE, GOVERNOR



CONSTRUCTION DOCUMENTS



Jefferson City, MO 65101 573.636.2116 WAYNE@MMEAENG.COM Missouri Certificate of Authority Number: 2018019632

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION DEPARTMENT OF NATURAL RESOURCES

GEOLOGICAL SURVEY REPLACEMENT OF HVAC AND
UPGRADE LIGHTING
BUEHLER & ANNEX BUILDINGS

ROLLA, MISSOURI

PROJECT: W2401-01 SITE: 5001 ASSET: 7815001007 ASSET: 7815001008

REVISION	DATE

CAD DWG FILE: 24005
DRAWN BY: JS
CHECKED BY: WS
DESIGNED BY: WS

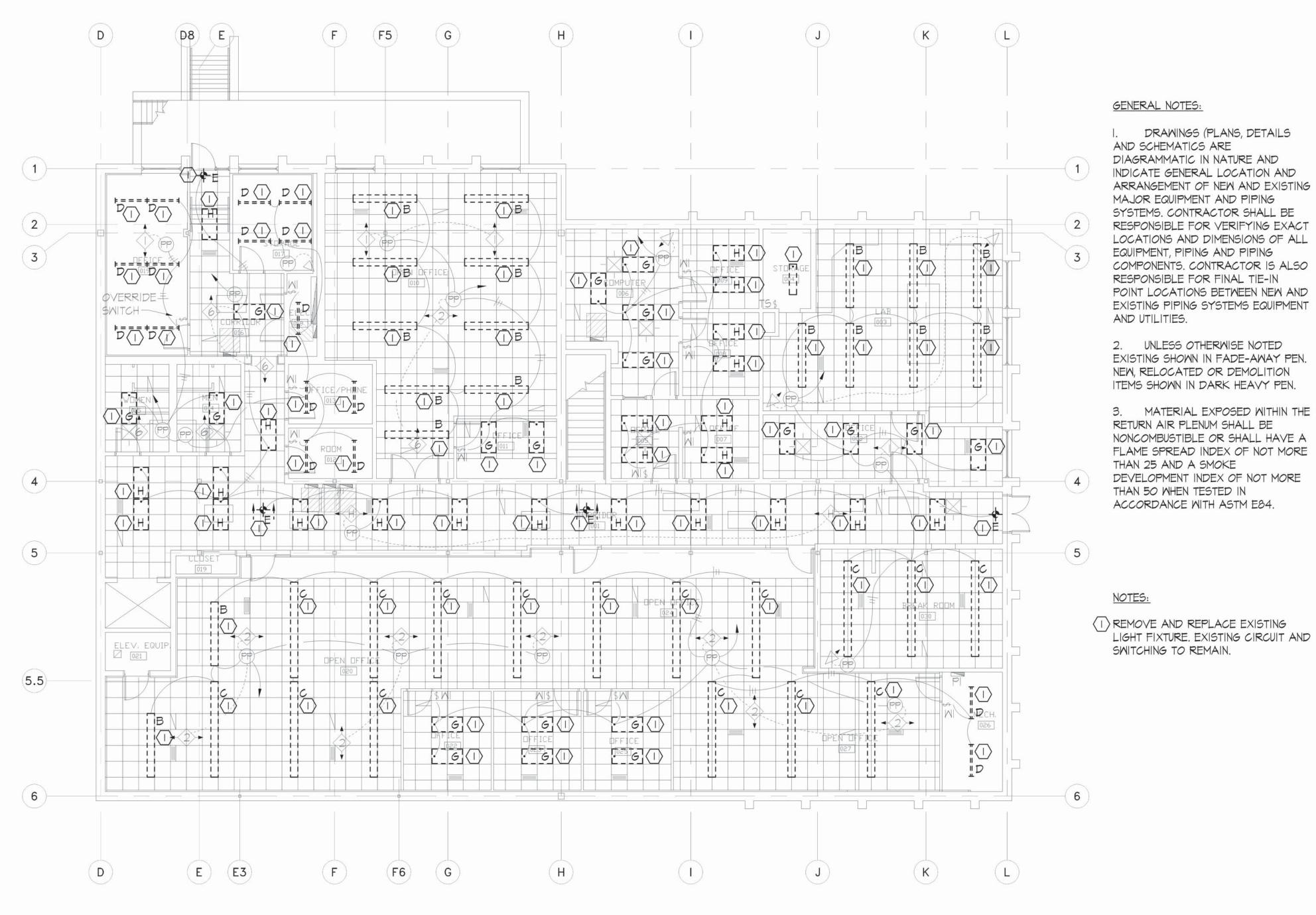
SHEET TITLE:
HVAC SCHEDULES

SHEET NUMBER:

M-201

SHEET 9 OF 16 ISSUE DATE: AUGUST 14, 2025

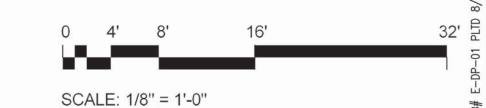
01 HEAT PUMP CONNECTION DETAIL



LIGHTING DEMOLITION MAIN BASEMENT FLOOR PLAN SCALE: 1/8"=1'-0"

OCCUPANCY/CONTROLS SENSOR SCHEDULE 6>► WT-600 SMS MS-120/277 ✓ I>>> WT-1100 SMA MA-100 **→**2>**→** MT-2205 \$WI WI-200 ◆H→ MT-2250 \$TS TS-SERIES THONEYWELL THOOE STAT * LS-100X/LS-30 W/Q7100E <>→ DT-200 SUBBASE CX-100 SERIES CT CURRENT TRANS. RELAY (PP) POWER PACK (HS) HUMIDITY SP) SLAVE PACK SCHEDULE * ALL OCCUPANCY SENSORS MODEL #'S BASED ON WATTSTOPPER

NOTE: ALL SENSORS SHALL BE SET FOR 30 MINUTES.



DRAWINGS (PLANS, DETAILS

MATERIAL EXPOSED WITHIN THE

STATE OF MISSOURI MIKE KEHOE, **GOVERNOR**



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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION **DEPARTMENT OF** NATURAL RESOURCES

GEOLOGICAL SURVEY -REPLACEMENT OF HVAC AND UPGRADE LIGHTING **BUEHLER & ANNEX BUILDINGS**

ROLLA, MISSOURI

PROJECT: W2401-01 SITE: 5001 ASSET: 7815001007

DATE

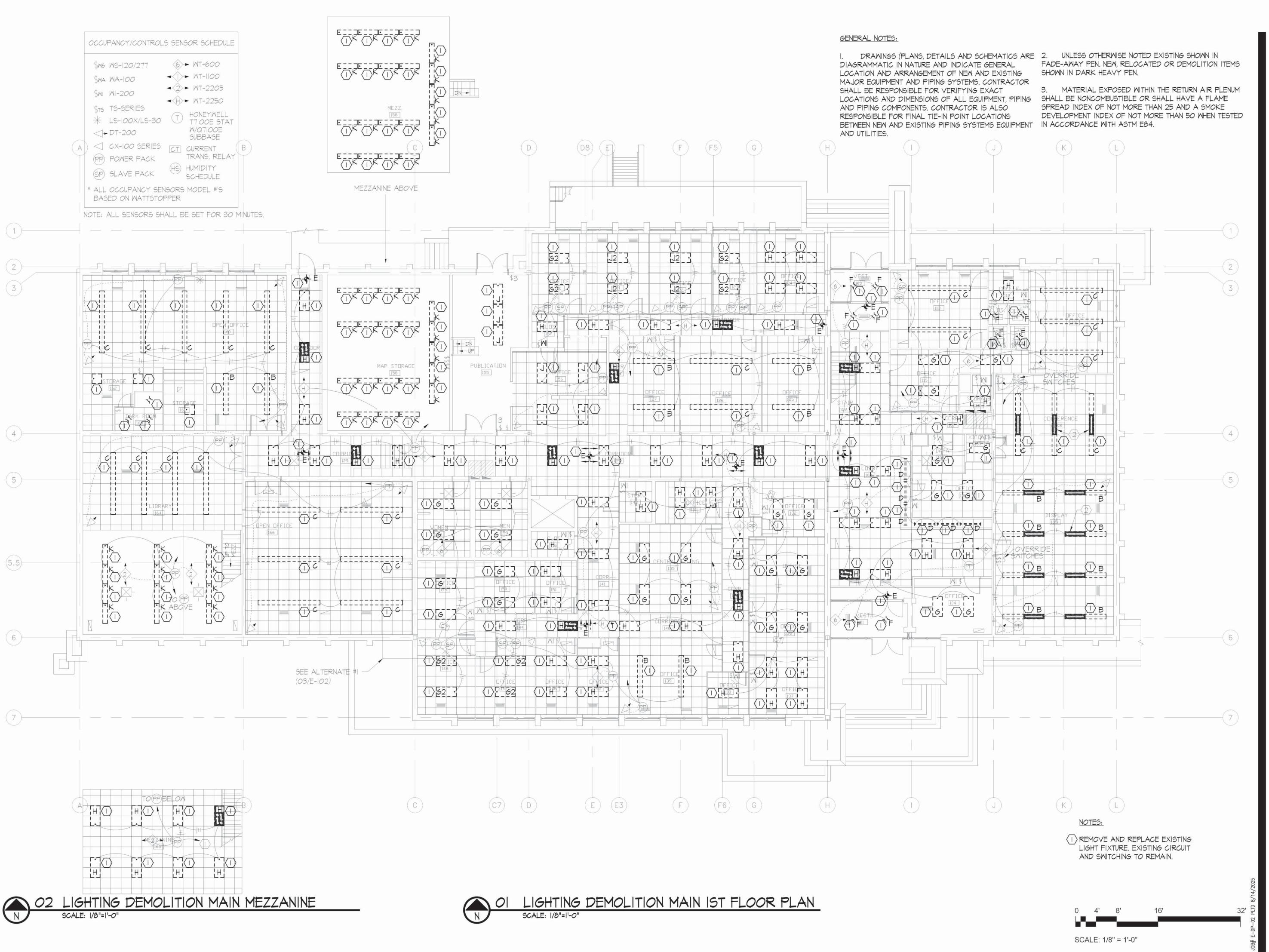
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SHEET TITLE: **BASEMENT** LIGHTING **DEMOLITION**

SHEET NUMBER:

E-101

SHEET 10 OF 16 ISSUE DATE: AUGUST 14, 2025



STATE OF MISSOURI MIKE KEHOE, GOVERNOR



CONSTRUCTION DOCUMENTS



Jefferson City, MO 65101 573.636.2116 WAYNE@MMEAENG.COM Missouri Certificate of Authority Number: 2018019632

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GEOLOGICAL SURVEY -REPLACEMENT OF HVAC AND UPGRADE LIGHTING BUEHLER & ANNEX BUILDINGS

ROLLA, MISSOURI

PROJECT: W2401-01 SITE: 5001 ASSET: 7815001007

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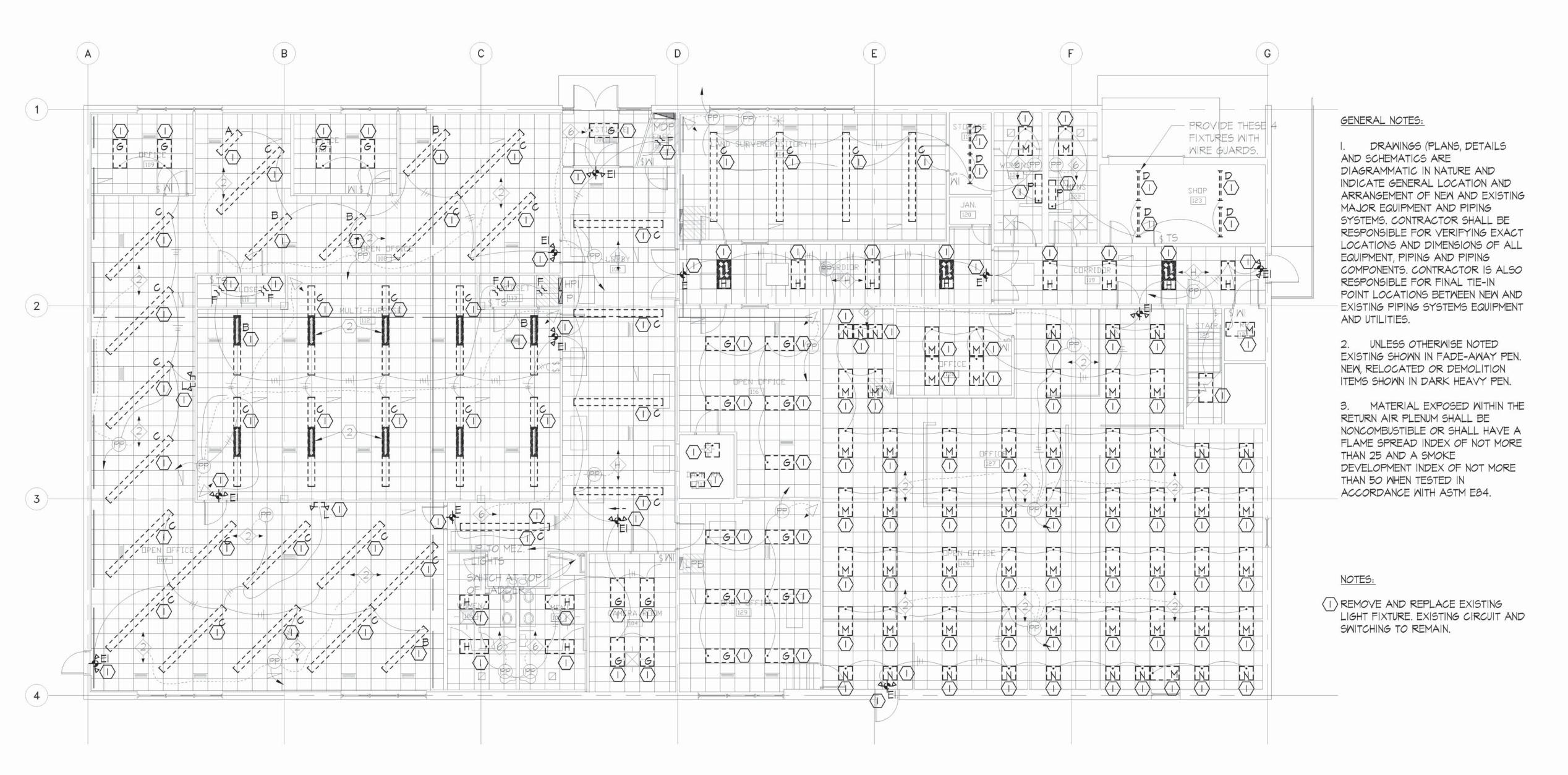
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DRAWN BY: JS
CHECKED BY: WS
DESIGNED BY: WS

SHEET TITLE:
1ST FLOOR
LIGHTING
DEMOLITION

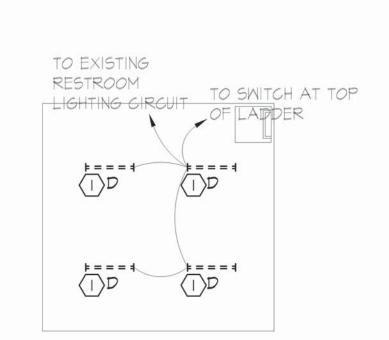
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E-102

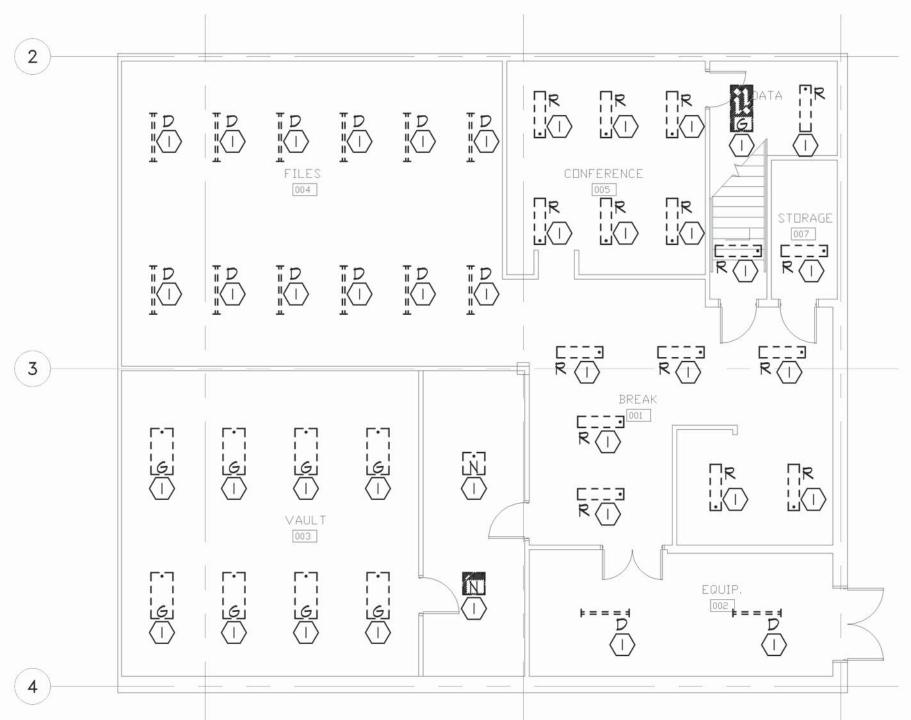
SHEET 11 OF 16 ISSUE DATE: AUGUST 14, 2025



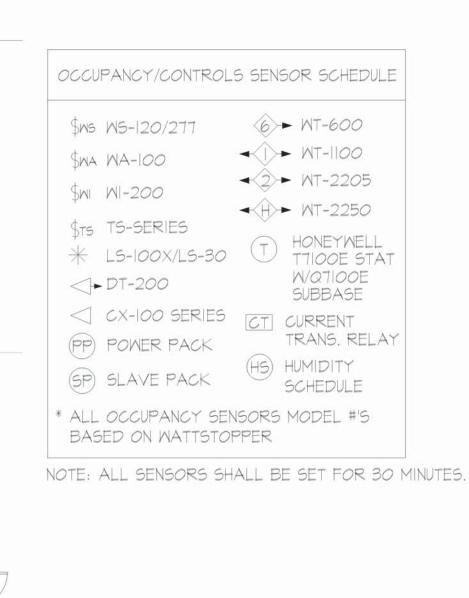




LIGHTING DEMOLITION
O2 ANNEX MEZZANINE FLOOR PLAN
SCALE: 1/8"=1'-0"



LIGHTING DEMOLITION
O3 ANNEX BASEMENT FLOOR PLAN
SCALE: 1/8"=1'-0"



SCALE: 1/8" = 1'-0"

STATE OF MISSOURI MIKE KEHOE, GOVERNOR



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GEOLOGICAL SURVEY -REPLACEMENT OF HVAC AND UPGRADE LIGHTING BUEHLER & ANNEX BUILDINGS

ROLLA, MISSOURI

PROJECT: W2401-01 SITE: 5001 ASSET: 7815001008

REVISION	DATE

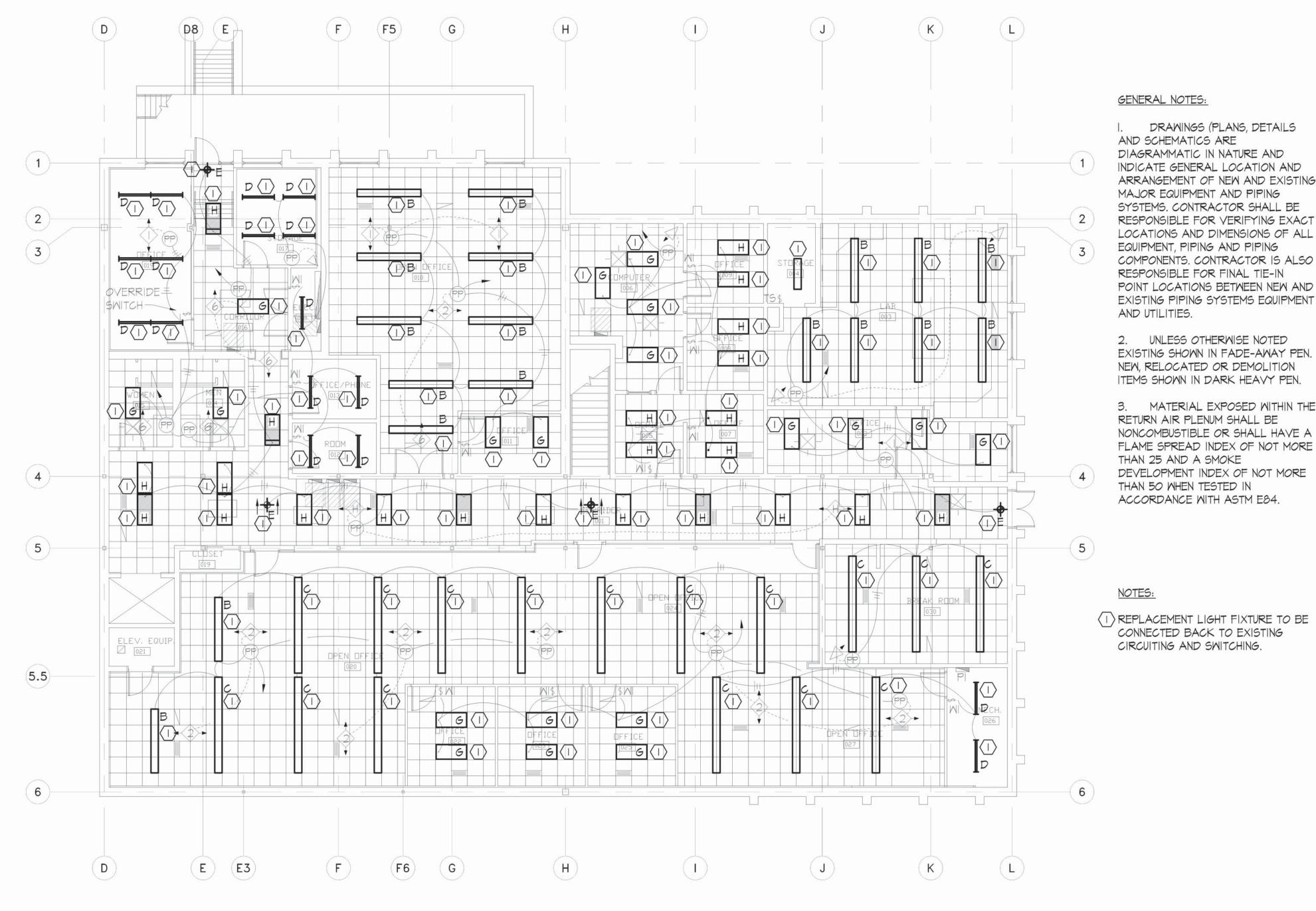
CAD DWG FILE: 24005
DRAWN BY: JS
CHECKED BY: WS
DESIGNED BY: WS

SHEET TITLE:
ANNEX
LIGHTING
DEMOLITION

SHEET NUMBER:

E-103

SHEET 12 OF 16 ISSUE DATE: AUGUST 14, 2025



LIGHTING RENOVATION MAIN BASEMENT FLOOR PLAN SCALE: 1/8"=1'-0"

OCCUPANCY/CONTROLS SENSOR SCHEDULE 6> ► WT-600 \$MS MS-120/277 ✓ I>>> WT-1100 \$MA MA-100 ✓2>► MT-2205 \$MI MI-200 ◆H > WT-2250 \$TS TS-SERIES HONEYWELL TTIOOE STAT * LS-100X/LS-30 W/QTIOOE <>> DT-200 SUBBASE CX-100 SERIES CT CURRENT TRANS. RELAY (PP) POWER PACK (HS) HUMIDITY SP) SLAVE PACK SCHEDULE * ALL OCCUPANCY SENSORS MODEL #'S BASED ON WATTSTOPPER

SCALE: 1/8" = 1'-0"

DRAWINGS (PLANS, DETAILS

UNLESS OTHERWISE NOTED

MATERIAL EXPOSED WITHIN THE

STATE OF MISSOURI MIKE KEHOE, **GOVERNOR**



CONSTRUCTION **DOCUMENTS**



203 Eastland Dr., Jefferson City, MO 65101 573.636.2116 WAYNE@MMEAENG.COM Missouri Certificate of Authority Number: 2018019632

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION **DEPARTMENT OF** NATURAL RESOURCES

GEOLOGICAL SURVEY -REPLACEMENT OF HVAC AND **UPGRADE LIGHTING BUEHLER & ANNEX BUILDINGS**

ROLLA, MISSOURI

PROJECT: W2401-01 SITE: 5001 ASSET: 7815001007

REVISION	DATE

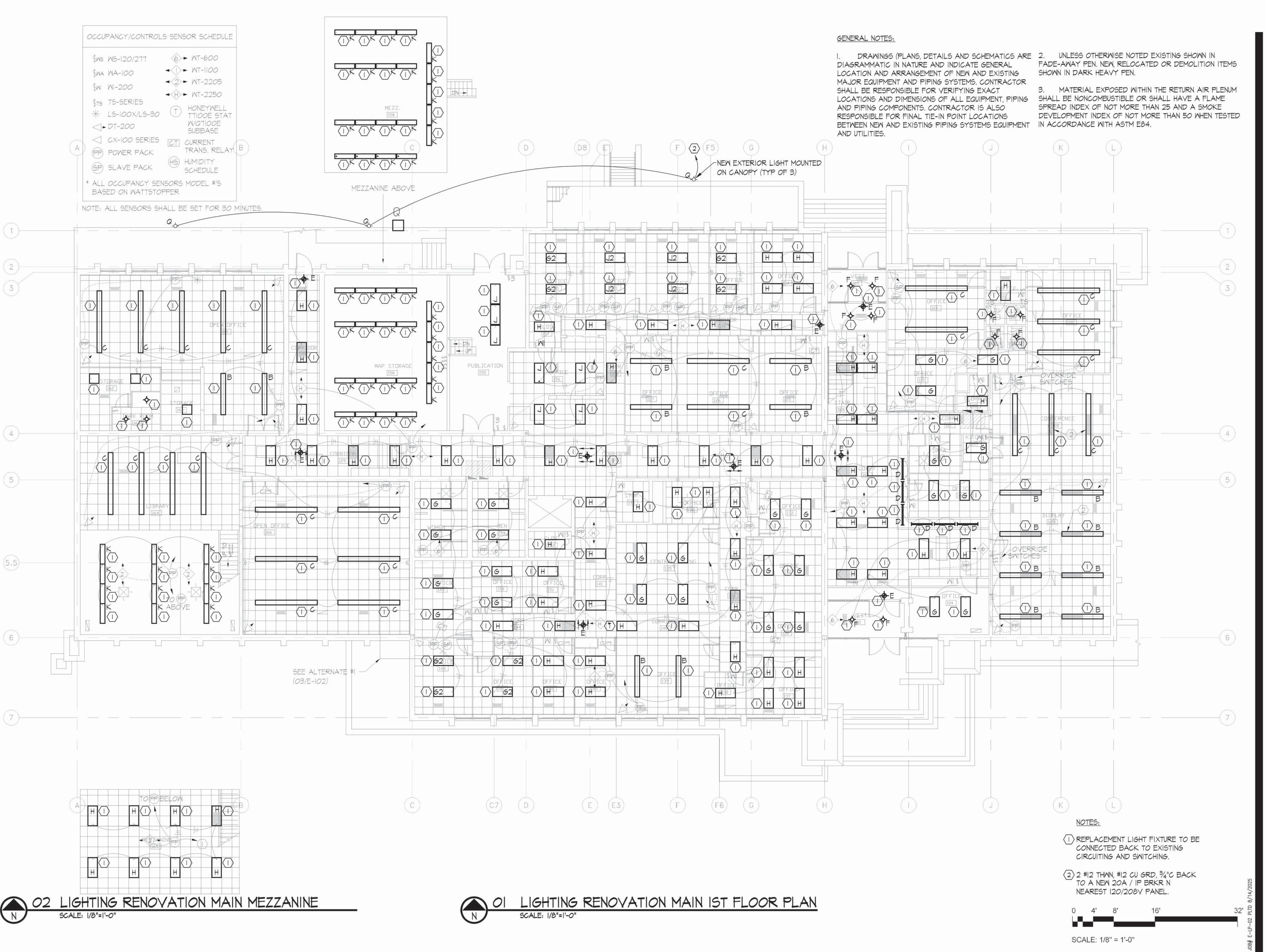
CAD DWG FILE: 24005 DRAWN BY: CHECKED BY: ws DESIGNED BY: ws

SHEET TITLE: **BASEMENT** LIGHTING RENOVATION

SHEET NUMBER:

SHEET 13 OF 16 ISSUE DATE: AUGUST 14, 2025

NOTE: ALL SENSORS SHALL BE SET FOR 30 MINUTES.



STATE OF MISSOURI MIKE KEHOE, GOVERNOR



CONSTRUCTION DOCUMENTS



Jefferson City, MO 65101 573.636.2116 WAYNE@MMEAENG.COM Missouri Certificate of Authority Number: 2018019632

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NATURAL RESOURCES

GEOLOGICAL SURVEY REPLACEMENT OF HVAC AND
UPGRADE LIGHTING
BUEHLER & ANNEX BUILDINGS

ROLLA, MISSOURI

PROJECT: W2401-01 SITE: 5001 ASSET: 7815001007

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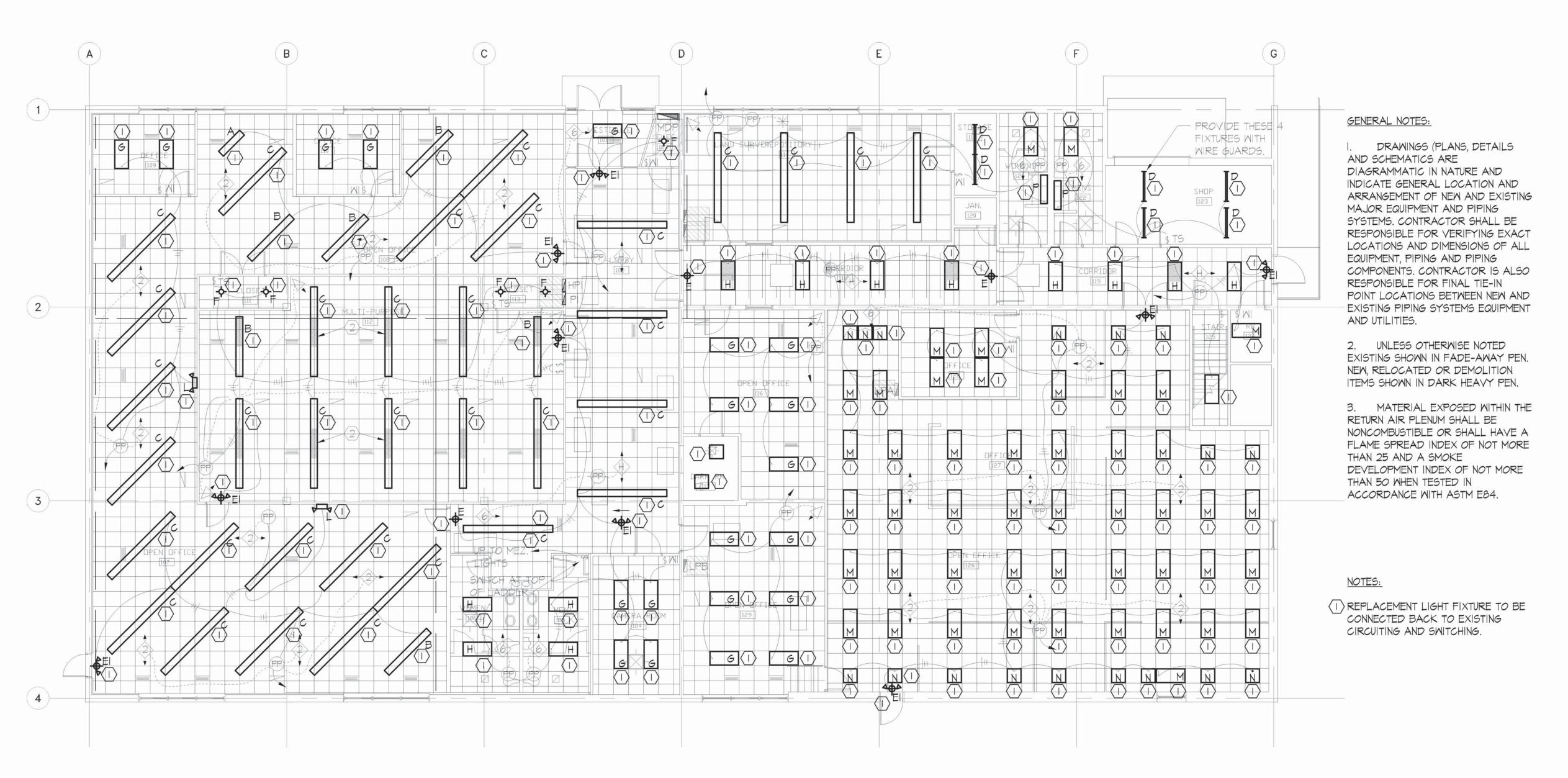
CAD DWG FILE: 24005
DRAWN BY: JS
CHECKED BY: WS
DESIGNED BY: WS

SHEET TITLE:
1ST FLOOR
LIGHTING
RENOVATION

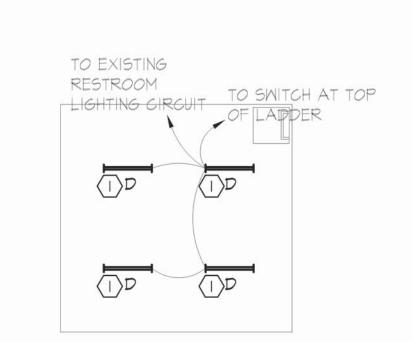
SHEET NUMBER:

E-105

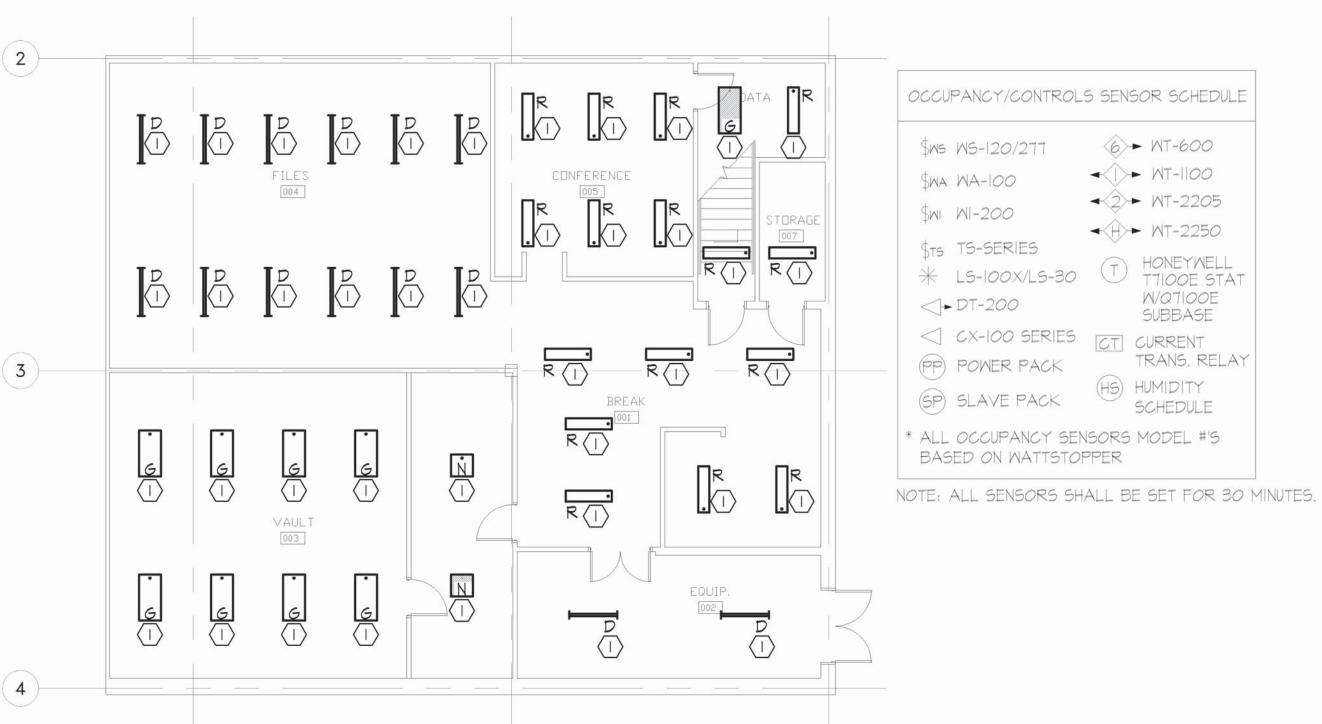
SHEET 14 OF 16 ISSUE DATE: AUGUST 14, 2025



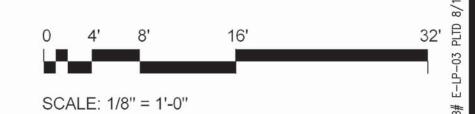




LIGHTING RENOVATION 02 ANNEX MEZZANINE FLOOR PLAN SCALE: 1/8"=1'-0"



LIGHTING RENOVATION ANNEX BASEMENT FLOOR PLAN SCALE: 1/8"=1'-0"



6>► WT-600

✓ |>> WT-||00

42>► WT-2205

→ H> WT-2250

(HS) HUMIDITY

HONEYWELL TILOOE STAT

M/Q7100E SUBBASE

SCHEDULE

TRANS. RELAY

SMS MS-120/277

SWA WA-100

\$MI MI-200

\$TS TS-SERIES

→ DT-200

* LS-100X/LS-30

SP) SLAVE PACK

BASED ON WATTSTOPPER

CX-100 SERIES CT CURRENT

■ STATE OF MISSOURI MIKE KEHOE, **GOVERNOR**



CONSTRUCTION DOCUMENTS



Jefferson City, MO 65101 573.636.2116 WAYNE@MMEAENG.COM Missouri Certificate of Authority Number: 2018019632

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GEOLOGICAL SURVEY -REPLACEMENT OF HVAC AND UPGRADE LIGHTING **BUEHLER & ANNEX BUILDINGS**

ROLLA, MISSOURI

PROJECT: W2401-01 SITE: 5001 ASSET: 7815001008

REVISION	DATE

CAD DWG FILE: 24005 DRAWN BY: JS CHECKED BY: WS DESIGNED BY: WS

SHEET TITLE: **ANNEX** LIGHTING RENOVATION

SHEET NUMBER:

E-106

SHEET 15 OF 16 ISSUE DATE: AUGUST 14, 2025

	LECTRICAL SYMBOL SCHEDULE ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS			
HOME RUN CIRCUIT TO PANEL PI, BREAKER SPACES 12,14				
PI-12,14 EACH ARROW INDICATES ONE CIRCUIT				
*	SHORT HATCH MARKS INDICATE # OF PHASE CONDUCTORS			
LONG HATCH MARKS INDICATE # OF NEUTRAL CONDUCTORS				
NO HATCH MARKS INDICATE TWO CONDUCTORS				
	ADDITIONALLY, EVERY CIRCUIT TO INCLUDE CODE SIZED GROUND			
•	TIE TO EXISTING			
φ #	RECEPTACLE OUTLET (DUPLEX - QUADRUPLEX)			
	FLOOR DUPLEX RECEPTACLE - FLOOR QUADRUPLEX RECEPTACLE			
#	SPECIAL POWER			
GFI MP	GROUND FAULT CIRCUIT INTERRUPT - WEATHER PROOF			
J P JA	JUNCTION BOX - PULL BOX - JUNCTION BOX ABOVE CEILING			
CDSF	CONTACTOR - DISCONNECT - STARTER - FUSED DISCONNECT			
<i>\(</i>	ELECTRIC MOTOR			
	ELECTRIC PANEL			
₩3 ₩T ₩D	**WALL SWITCH SINGLE POLE (THREE POLE - TIMER SWITCH - DIMMER SWITCH)			
ф ф	LIGHT FIXTURE (CEILING MOUNTED - WALL MOUNTED)			
	FLUORESCENT LIGHT FIXTURE (ENCLOSED - STRIP)			
→	BATTERY PACK WITH EMERGENCY LIGHTS - EMERGENCY EXIT SIGN			
40	EMERGENCY EXIT WITH DUAL EMERGENCY LIGHTS			
+	LIGHT FIXTURES WITH EMERGENCY BATTERY PACK			
E	*J-BOX WITH BLANK FACE PLATE			
 0 - 00 ₹	*COMPUTER DATA - FLOOR RECESSED COMPUTER DATA - DATA & COMMUNICATION			
FS	FLOW SWITCH			
AVA V HA	AUDIO VISUAL ALARM - VISUAL ALARM - AUDIO ALARM			
(P)	MANUAL PULL STATION			
TS	TAMPER SWITCH			
D D D	DUCT MOUNTED SMOKE DETECTOR - HEAT DETECTOR - SMOKE DETECTOR			
FACP DIAL	FIRE ALARM CONTROL PANEL - TELEPHONE DIALER			
MF	WATER FLOW INDICATOR			
R	INTERLOCK RELAY			

	LIGHT FIXTURE 9	LIGHT FIXTURE SCHEDULE				
MARK	MANUFACTURER & MODEL NUMBER	TYPE		LAMPS	MOUNTING	REMARKS
1 1/ 31 313	MANOL ACTORER & MODEL NOMBER	11112	#			
Α	HEW MX4UD-4'00-L12/840U/L12/840D-S-A/F-ACFS/D96-S9658/W-DIM-UNV	LED	1-1	NOTE I	PENDANT	
В	HEW MX4UD-8'00-L12/840U/L12/840D-S-A/F-ACFS/D96-S9658/W-DIM-UNV	LED		NOTE I	PENDANT	
C	HEW MX4UD-12'00-L12/840U/L12/840D-S-A/F-ACFS/D96-S9658/W-DIM-UNV	LED		NOTE I	PENDANT	
D	HEW 75R-4-L50/840(2)VBY-2/PWU-DIM-UNV	LED		NOTE I	PENDANT	
E	HEW EXIT-R-EM-WHT-D	LED			SURFACE	
ΕI	HEW EXIT/EM/LED-R-WHT-D	LED			SURFACE	
F	HEW 6DR-TL-L20/840-DIMI-UNV-OM-OF-CS-N-FI	LED		NOTE	CAN	
G	HEW BP-24-LS/8CS-WS-DIM-UNV	LED		NOTE I	RECESSED	
G2	HEW BP-24-LS/8CS-WS-DIM-UNV			NOTE I	RECESSED	
Н	HEW BP-24-LS/8CS-WS-DIM-UNV	LED		NOTE	RECESSED	
J	HEW BP-24-LS/8CS-WS-DIM-UNV	LED		NOTE	RECESSED	
J2	HEW BP-24-LS/8CS-WS-DIM-UNV	LED		NOTE I	RECESSED	
K	HEW ASM-4-L46/840-S-S-S-DIM-UNV	LED		NOTE I	SURFACE	
L	HEW EMER/LED-WHT-D	LED			SURFACE	
М	HEW LT-24-L52/840-AF-(4)EQ CLIPS-DIM-UNV	LED		NOTE I	RECESSED	
N	HEW BP-22-LS/8CS-WS-DIM-UNV	LED		NOTE I	RECESSED	
P	HEW WMAUD-4-L40/840U/L40/840D-AF-DIMU/DIMD-UNV	LED		NOTE		
Q	HEW BP-24-LS/8CS-WS-DIM-UNV	LED		NOTE I	WALL	
R	HEW II-4-L52-840-F-AFI2I25-DIM-UNV	LED		NOTE I	SURFACE	-

NOTES:

I. COLOR TEMPERATURE ON ALL FIXTURES TO BE SET AT 4000K.

2. SHADED FIXTURES ON DRAWINGS TO BE PROVIDED WITH EMERGENCY BATTERY BACKUP. CIRCUIT TO UNSWITCHED HOT.

STATE OF MISSOURI MIKE KEHOE, GOVERNOR



CONSTRUCTION DOCUMENTS



MID MISSOURI ENGINEERING ALLIANCE 203 Eastland Dr., Jefferson City, MO 65101 573.636.2116 WAYNE@MMEAENG.COM Missouri Certificate of Authority Number: 2018019632

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<u>, , , , , , , , , , , , , , , , , , , </u>	

CAD DWG FILE: 24005
DRAWN BY: JS
CHECKED BY: WS
DESIGNED BY: WS

SHEET TITLE:
ELECTRICAL
SCHEDULES

SHEET NUMBER:

E-201

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0 4' 8' 16' 32 SCALE: 1/8" = 1'-0"