CONSTRUCTION DOCUMENTS

ISSUE DATE: 10/16/2026

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4209 STATE ROUTE 44
ROOTSTOWN, OH 44272

PROJECT NUMBER 26028.000

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(800) 686-2511

ARCHITECT

HASENSTAB ARCHITECTS, INC.
190 N. UNION STREET, SUITE 400 - AKRON, OHIO 44304
(330) 434-4464

ELECTRICAL ENGINEER

WRIGHT ENGINEERING
190 N. UNION STREET, SUITE 303 - AKRON, OHIO 44304
(330) 606-2957

MECHANICAL ENGINEER

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ARCHITECTURAL ABBREVIATIONS

ABBREVIATIONS BELOW ARE APPLICABLE TO ALL ARCHITECTURAL SERIES DRAWINGS.

AFF	ABOVE FINISH FLOOR	FAMAB	FLUID APPLIED MEMBRANE AIR AND WATER RESISTIVE BARRIER	NA	NOT APPLICABLE
ALUM	ALUMINUM			NIC	NOT IN CONTRACT
AHU	AIR HANDLING UNIT	FBC	FURNISHED BY CONTRACTOR	NO	NUMBER
APC	ACOUSTICAL PANEL CEILING	FBO	FURNISHED BY OWNER	NTS	NOT TO SCALE
BD	BOARD	FD	FLOOR DRAIN	OC	ON CENTER
BLDG	BUILDING	FE	FIRE EXTINGUISHER	ORD	OVERFLOW ROOF DRAIN
CA	COUNTER SUPPORT ANGLE	FF	FINISHED FLOOR	PP	AUTOMATIC DOOR PUSH PLATE
C/C	CENTER TO CENTER	FEC	FIRE EXTINGUISHER CABINET	PSI	POUNDS PER SQUARE INCH
CJ	CONTROL JOINT	FIN	FINISH	R	RISER
CL	CENTER LINE	FP	FILLER PANEL	RD	ROOF DRAIN
CLR	CLEAR	FRT	FIRE RETARDANT TREATED WOOD	REQ	REQUIRED
CMU	CONCRETE MASONRY UNIT			RO	ROUGH OPENING
CO	CLEAN OUT	GA	GAUGE	SC	SHOWER CURTAIN
COL	COLUMN	GALV	GALVANIZED	SCU	SCUPPER
CONC	CONCRETE	GF	GLAZING FILM	SF	SQUARE FEET
CONT	CONTINUOUS	GYP	GYPSUM	SHT	SHEET
CR	CARD READER	HB	HOSE BIB	SIM	SIMILAR
CUH	CABINET UNIT HEATER	HC	HOSE CABINET	SPEC	SPECIFICATIONS
CY	CUBIC YARD	HT	HEIGHT	SS	SOLID SURFACE
CW	CURTAIN WALL	HM	HOLLOW METAL	SSTL	STAINLESS STEEL
DEPT	DEPARTMENT	HORIZ	HORIZONTAL	STL	STEEL
DI	DEIONIZED WATER	IBC	INSTALLED BY CONTRACTOR	STRUC	STRUCTURAL
DIA	DIAMETER	IBO	INSTALLED BY OWNER	T	TREAD
DIM	DIMENSION	IG	INSULATED GLAZING UNIT	THK	THICK
DN	DOWN	IJ	ISOLATION JOINT	TOM	TOP OF MASONRY
DWG	DRAWING	IN	INCHES	TOS	TOP OF STEEL
DS	DOWN SPOUT	LBS	POUNDS	TYP	TYPICAL
EA	EACH	MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
EJ	EXPANSION JOINT	MECH	MECHANICAL	VERT	VERTICAL
ELEC	ELECTRICAL	MEP	MECHANICAL, ELECTRICAL, & PLUMBING	VIF	VERIFY IN THE FIELD
ELEV	ELEVATION	MFR	MANUFACTURER	W	WIDE
EQ	EQUAL	MH	MANHOLE	W/	WITH
EW	EACH WAY	MIN	MINIMUM	ZVB	ZONE VALVE BOX
EWC	ELECTRIC WATER COOLER	MISC	MISCELLANEOUS		
EWS	EYE WASH STATION	MO	MASONRY OPENING		
EXIST	EXISTING				

REFER TO PROJECT MANUAL AND/OR SCHEDULES WHEN MULTIPLE TYPES OF AN ITEM OCCUR (FEC-1, FEC-2, ETC. ..).
ALL ITEMS INDICATED MAY NOT BE INCLUDED IN THE PROJECT SCOPE. REFER TO DRAWINGS FOR SPECIFIC INSTANCES.

MATERIALS LEGEND

- BRICK (PLAN / SECTION)
- CONCRETE
- CONCRETE BLOCK (PLAN / SECTION)
- EARTH
- FINISH WOOD
- GRAVEL
- GYPSUM BOARD
- PLYWOOD
- RIGID INSULATION
- MINERAL WOOL
- ROUGH WOOD
- STEEL

GENERAL NOTES

1. THE VARIOUS DRAWINGS COMPRISING THIS SET OF DRAWINGS ARE INTERDEPENDENT AND MUST BE USED JOINTLY TO EXECUTE THE WORK.
2. WHERE DISCREPANCIES OCCUR BETWEEN FLOOR PLANS, DETAILS AND LARGER SCALE PLANS, CONTRACTOR SHALL CONSULT THE ARCHITECT FOR CLARIFICATION. WHERE DISCREPANCIES OCCUR BETWEEN ARCHITECTURAL AND ALL OTHER DRAWINGS, CONTRACTOR SHALL CONSULT THE ARCHITECT FOR INTERPRETATIONS.
3. MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL WORK IS INDICATED ON THE HVAC, PLUMBING, ELECTRICAL, TECHNOLOGY AND STRUCTURAL DRAWINGS. CONTRACTORS MUST REFER TO ALL ARCHITECTURAL SERIES DRAWINGS, AS WELL AS MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL DRAWINGS, WHEN INSTALLING MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL WORK.
4. DO NOT SCALE THE DRAWINGS. IF QUESTIONS ARISE, CONTACT THE ARCHITECT FOR CLARIFICATION.
5. EXISTING BUILDING INFORMATION IS BASED ON ORIGINAL CONSTRUCTION DOCUMENTS AND IS NOT INTENDED TO REPRESENT EXISTING "AS-BUILT" CONDITIONS. CONTRACTORS SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS.

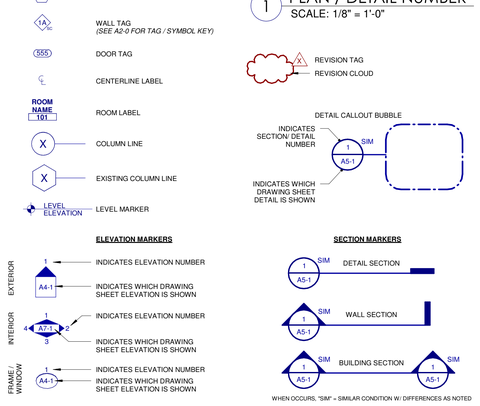
WARNING! ASBESTOS HAZARD

THIS PROJECT AREA MAY CONTAIN ASBESTOS MATERIALS USED FOR FIREPROOFING AND INSULATION.
THE CONSTRUCTION AREA HAS BEEN CLEANED OF THESE MATERIALS PRIOR TO COMMENCEMENT OF WORK.
ASBESTOS MAY BE ENCOUNTERED IN THE COURSE OF NEW WORK OR DEMOLITION ACTIVITIES.

IF ANY MATERIAL IS UNCOVERED WHICH IS SUSPECTED TO CONTAIN ASBESTOS, CEASE WORK & NOTIFY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL POST OSHA APPROVED SIGNS WHICH WILL REMAIN IN PLACE, ALERTING THE TRADESMEN TO THE HAZARDOUS CONDITION.

ARCHITECTURAL LEGEND

NOTE: REFER TO INDIVIDUAL DRAWING LEGENDS FOR ADDITIONAL SYMBOLS



WHEN OCCURS, "SIM" = SIMILAR CONDITION W/ DIFFERENCES AS NOTED

PROJECT INTENT

THE PROJECT INTENT IS TO COMPLETE ALTERATION WORK TO THE SECOND FLOOR OF THE BUILDING. THE INTENT IS TO LIMIT PRIMARY ALTERATION WORK TO THE PROJECT AREAS AS DEFINED BY THE CONSTRUCTION DOCUMENTS AND TO PROVIDE ADDITIONAL INFRASTRUCTURE IMPROVEMENTS TO AREAS OUTSIDE THE PROJECT AREA, WITH NO CHANGE IN THE USE OR CONSTRUCTION CLASSIFICATION. THERE ARE NO ADDITIONS WHICH MODIFY THE EXISTING BUILDING AREA, OCCUPANCIES, OR USES. ALL NEW WORK PERFORMED SHALL COMPLY WITH **2024 OHIO EXISTING BUILDING CODE: PRESCRIPTIVE COMPLIANCE METHOD.**

THE PROJECT SCOPE SHALL BE LIMITED TO ALTERATION WORK AS INDICATED ON THE CONSTRUCTION DOCUMENTS. ALTERATION WORK AND IMPROVEMENTS WITHIN THE PROJECT AREA INCLUDE, BUT SHALL NOT BE LIMITED TO, THE FOLLOWING SYSTEMS: HVAC, PLUMBING, FIRE SUPPRESSION, FIRE ALARM, NORMAL POWER, EMERGENCY POWER, DATA AND COMMUNICATION, LIGHTING, INTERIOR PARTITIONS, DOORS AND HARDWARE, AND INTERIOR FINISHES.

CODE INFORMATION

REGULATORY INFO

BUILDING PERMIT JURISDICTION	STATE OF OHIO
PLUMBING PERMIT JURISDICTION	STATE OF OHIO
BUILDING CODE JURISDICTION	
2024 OHIO BUILDING CODE	2021 IFGC
2024 OHIO EXISTING BUILDING CODE - PRESCRIPTIVE COMPLIANCE METHOD	2021 IECC
2024 OHIO MECHANICAL CODE	2022 NFPA 13
2024 OHIO PLUMBING CODE	2022 NFPA 72
2023 NATIONAL ELECTRIC CODE	2017 OHIO FIRE CODE
2017 ICC A117.1	
RISK CATEGORY	3
FIRE SUPPRESSION	FULL

OBC: CHAPTER 3

USE GROUP CLASSIFICATION	B

OBC: CHAPTER 5

HEIGHT

ALLOWABLE BUILDING HEIGHT (504.3)	36 FEET
ACTUAL BUILDING HEIGHT	25 FEET
ACTUAL BUILDING STORIES	2

AREA

EXISTING FLOOR AREA	12,470 SF

OBC: CHAPTER 6

CONSTRUCTION TYPE	2B	
FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS - TABLE 601	HOUR RATING	UL ASSEMBLY
PRIMARY STRUCTURAL FRAME		
COLUMNS SUPPORTING FLOORS	0	
COLUMNS SUPPORTING ONLY ROOFS	0	
MEMBERS SUPPORTING FLOORS	0	
MEMBERS SUPPORTING ONLY ROOFS	0	
BEARING WALLS		
EXTERIOR	0	
INTERIOR	0	
NONBEARING WALLS AND PARTITIONS EXTERIOR WALLS SEPARATED < XX'	0	
FLOOR CONSTRUCTION AND SECONDARY MEMBERS	0	
ROOF CONSTRUCTION AND SECONDARY MEMBERS	0	

OBC: CHAPTER 8

INTERIOR WALL AND CEILING FINISH FLAME SPREAD AND SMOKE-DEVELOPED INDEX REQUIREMENTS: TABLE 803.13

EXIT STAIRWAYS, EXIT RAMPS, & EXIT PASSAGEWAYS	CLASS B (FS: 26-75, SD: 0-450)
CORRIDORS AND ENCLOSURES FOR EXIT ACCESS STAIRWAYS AND EXIT ACCESS RAMPS	CLASS C (FS: 76-200, SD: 0-450)
ROOMS AND ENCLOSED SPACES	CLASS C (FS: 76-200, SD: 0-450)

OBC: CHAPTER 10

MAXIMUM DESIGN OCCUPANT LOAD AND REQUIREMENTS

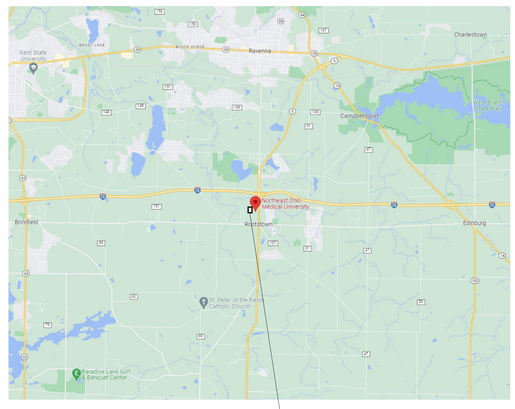
LEVEL	OCCUPANTS	EXITS REQUIRED	EXITS PROVIDED
SECOND FLOOR	125	2	3

	REQUIRED	PROVIDED
EXIT LENGTH	XX	XX
CORRIDOR WIDTH	36	60
EXIT DOOR WIDTH	36	72

DRAWING INDEX

A0-0	COVER SHEET
A0-2	LIFE SAFETY PLAN - LEVEL 2
A1-2	DEMOLITION PLAN - LEVEL 2
A2-2	FLOOR PLAN - LEVEL 2
A3-2	REFLECTED CEILING PLAN - LEVEL 2
A3-3	ACOUSTICAL BAFFLES REFLECTED CEILING PLAN
A9-1	FINISH PLAN - LEVEL 2
FP0-1	FIRE PROTECTION GENERAL INFORMATION
FP1-1	FIRE PROTECTION DEMOLITION PLAN - LEVEL 2
M3-1	MECHANICAL SCHEDULES AND DETAILS
M3-2	MECHANICAL SCHEDULES AND DETAILS
M0-1	MECHANICAL GENERAL INFORMATION
M1-1	MECHANICAL DEMOLITION PLAN - LEVEL 2
M2-1	MECHANICAL DUCTWORK PLAN - LEVEL 2
M2-2	MECHANICAL PIPING PLAN - LEVEL 2
M2-3	MECHANICAL ROOM PLAN
M2-4	MECHANICAL PIPING PLAN - LEVEL 1
E0-1	ELECTRICAL GENERAL INFORMATION
E0-2	ELECTRICAL SPECIFICATIONS
E1-1	ELECTRICAL DEMOLITION PLAN - LEVEL 2
E1-2	LIGHTING PLAN - LEVEL 2
E1-3	POWER AND SYSTEMS PLAN - LEVEL 2
E1-4	ELECTRICAL ROOM PLAN - LEVEL 2

LOCATION MAP



PROJECT LOCATION

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COVER SHEET

A0-0

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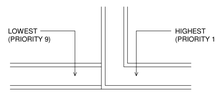


1 LIFE SAFETY PLAN - LEVEL 2
SCALE: 1/8" = 1'-0"

LEGEND

- FE — PORTABLE FIRE EXTINGUISHER LOCATION
- FEC — PORTABLE FIRE EXTINGUISHER CABINET
- EXIT
- W / X / Y / Z — W = ACTUAL CLEAR WIDTH OF LIMITING COMPONENT (INCHES). X = OCCUPANTS USING EXIT. Y = EXIT CAPACITY. Z = EGRESS WIDTH PER OCCUPANT (INCHES / OCCUPANT)
- MOST REMOTE POINT, TO DETERMINE EXIT ACCESS TRAVEL DISTANCE
- ## — DOOR FIRE RATING

FIRE ASSEMBLY CONTINUITY



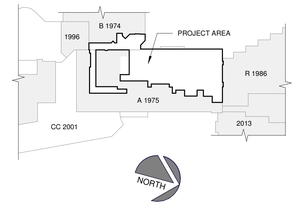
LIFE SAFETY WALL LEGEND

RATING MAY COINCIDE WITH OTHER FIRE & SMOKE PROTECTION FEATURES BELOW:

- 3 HR FIREWALL (PRIORITY 1)
- 2 HR FIREWALL (PRIORITY 1)
- 3 HR FIRE BARRIER (PRIORITY 2)
- 2 HR FIRE BARRIER (PRIORITY 2)
- 1 HR FIRE BARRIER (PRIORITY 2)
- 1 HR FIRE PARTITION (PRIORITY 3)
- SMOKE BARRIER (PRIORITY 4)
  WALL CONSTRUCTION WITH MINIMUM 1-HR FIRE RESISTANCE RATING. (FIRE PARTITIONS, FIRE BARRIERS, AND FIREWALLS MAY COINCIDE WITH SMOKE BARRIERS AND ARE IDENTIFIED BY COLOR AND HATCH INDICATED ABOVE.)
  SOLID BLACK LINE INDICATES EXTENT OF SMOKE BARRIER.
- SMOKE PARTITION (PRIORITY 5)

REFER TO WALL TYPE INFORMATION ON SHEET A2-0 FOR ADDITIONAL WALL TERMINATION AND CONSTRUCTION DETAILS.

KEY PLAN - LEVEL 2



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LIFE SAFETY PLAN - LEVEL 2

A0-2

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1 DEMOLITION PLAN - LEVEL 2
SCALE: 1/8" = 1'-0"

DEMOLITION CODED NOTES

NOTE: ALL CODED NOTES MAY NOT APPEAR ON EVERY SHEET

1	EXISTING EXPANSION JOINT
2	EXISTING LAY IN CEILING GRID AND PADS, LIGHTS, HVAC DIFFUSERS, ETC. TO BE REMOVED
3	WHERE EXISTING CEILING GRID IS TO REMAIN ON ONE SIDE OF EXISTING WALL REMOVE GRID ON 'REMAINING' SIDE AND REWORK GRID AS INDICATED ON DETAIL 3/A3-2.
4	EXISTING CARPET AND WALL BASE TO BE REMOVED
5	EXISTING ELECTRIC, WALL MOUNTED FIREPLACE TO BE REMOVED AND SALVAGED FOR RE-INSTALLATION
6	EXISTING GYPSUM BOARD CEILING TO REMAIN
7	EXISTING BUILT IN CASEWORK TO BE REMOVED
8	EXISTING WOOD 2x CHAIR RAIL TO BE REMOVED. DEMOLITION TO BE COMPLETED IN SUCH A MANNER TO ALLOW FOR ATTACHMENT OF NEW CHAIR RAIL
9	PORTION OF EXISTING LAY IN CEILING AND GRID TO BE REMOVED AS REQUIRED TO PROVIDE ACCESS TO PROPOSED ABOVE CEILING ELECTRICAL WORK. CEILING TO BE REPLACED AFTER ELECTRICAL WORK IS COMPLETE

GENERAL NOTES

7. FILL AND LEVEL ALL HOLES IN FLOORS AND WALLS AFTER REMOVAL OF PIPES, DUCTS, CONDUIT AND OTHER PENETRATING ITEMS. MAINTAIN REQUIRED FIRE RATINGS.
8. ALL DEMOLISHED ITEMS ARE TO REMAIN THE PROPERTY OF THE OWNER AT THEIR DISCRETION. ALL ITEMS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR. SEE CODED NOTES FOR SPECIFIC ITEMS TO BE REMOVED, REINSTALLED, AND/OR TURNED OVER TO THE OWNER.
9. ALL DEMOLITION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION OF NORMAL DAILY ACTIVITIES IN THE PROJECT AREA.
10. TEMPORARY PARTITIONS ARE TO BE ERECTED PRIOR TO COMMENCEMENT OF DEMOLITION WORK AND ARE TO REMAIN IN PLACE UNTIL WORK IS COMPLETED, UNO. REFER TO PROJECT MANUAL FOR REQUIREMENTS.
11. ALL STRUCTURAL MEMBERS ARE TO REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED. NOTIFY ARCHITECT PRIOR TO DEMOLITION IF ITEM INDICATED TO BE REMOVED IS SUSPECTED AS STRUCTURAL ELEMENT.
12. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL DRAWINGS FOR REQUIRED DEMOLITION AND RELATED WORK.
13. RESUPPORT EXISTING CONDUIT, PIPING AND EQUIPMENT TO REMAIN AS REQUIRED DUE TO DEMOLITION.
14. REFER TO PHASING DIAGRAMS (IF APPLICABLE) FOR INFORMATION REGARDING SEQUENCING, WORK RESTRICTIONS AND REQUIREMENTS SPECIFIC TO THE INTENDED USE OF SPACES DURING CONSTRUCTION.

GENERAL NOTES

1. **REFER TO PROJECT MANUAL, SECTION 017329, FOR INFORMATION RELATED TO CUTTING AND PATCHING. THIS INCLUDES MAINTAINING WEATHER TIGHT CONDITIONS, MAINTAINING EXISTING WARRANTIES, MATCHING EXISTING FINISHES, CONDUCTING FIELD MEASUREMENTS, PROTECTING EXISTING IN-PLACE CONSTRUCTION, FLOOR LEVELING, AND MORE.**
2. WALLS ARE GYPSUM BOARD ON METAL STUDS UNLESS NOTED OTHERWISE. REMOVE ENTIRE WALL TO UNDERSIDE OF DECK UNLESS NOTED OTHERWISE. CONFIRM EXISTING CONDITIONS.
3. REMOVE FLOORING AND BASE WHERE NEW FINISHES ARE INDICATED AND AS NOTED. PATCH AND REPAIR SUBSTRATES FOR NEW FINISHES. FLOORING/BASE TO BE REMOVED IS CARPET WITH VINYL BASE UNLESS NOTED OTHERWISE.
4. REMOVE CEILING WHERE NEW CEILINGS ARE INDICATED AND AS NOTED. REMOVE ALL UNUSED AND ABANDONED FASTENERS, SUPPORTS, BRACKETS, HANGERS, ETC., ABOVE THE CEILING. PATCH AND REPAIR WALL SURFACES FOR NEW CEILING INSTALLATION. CEILING TO BE REMOVED IS ACOUSTICAL PANEL CEILING UNLESS NOTED OTHERWISE.
5. IN DEMOLITION AREAS, REMOVE ALL MISCELLANEOUS ITEMS ON WALLS INCLUDING TACKBOARDS, TOILET ACCESSORIES, CORNER GUARDS AND OTHER WALL MOUNTED ITEMS, UNLESS NOTED OTHERWISE.
6. PATCH ALL EXISTING ADJACENT INTERIOR FINISHES TO REMAIN AS UNDISTURBED BY THE DEMOLITION TO MATCH ADJACENT SURFACES.

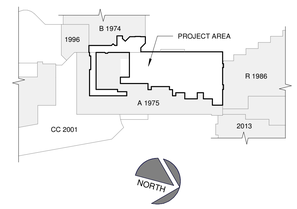
LEGEND

ALL DASHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY UNLESS OTHERWISE NOTED

EQUIPMENT TO BE REMOVED AND REMAIN THE PROPERTY OF THE OWNER AT THEIR DISCRETION

FIXTURES / DEVICES TO BE REMOVED. SEE MEP DEMO DRAWINGS FOR EXTENTS OF CAPPING, REWORK, AND RECONNECTIONS AS REQUIRED

KEY PLAN - LEVEL 2



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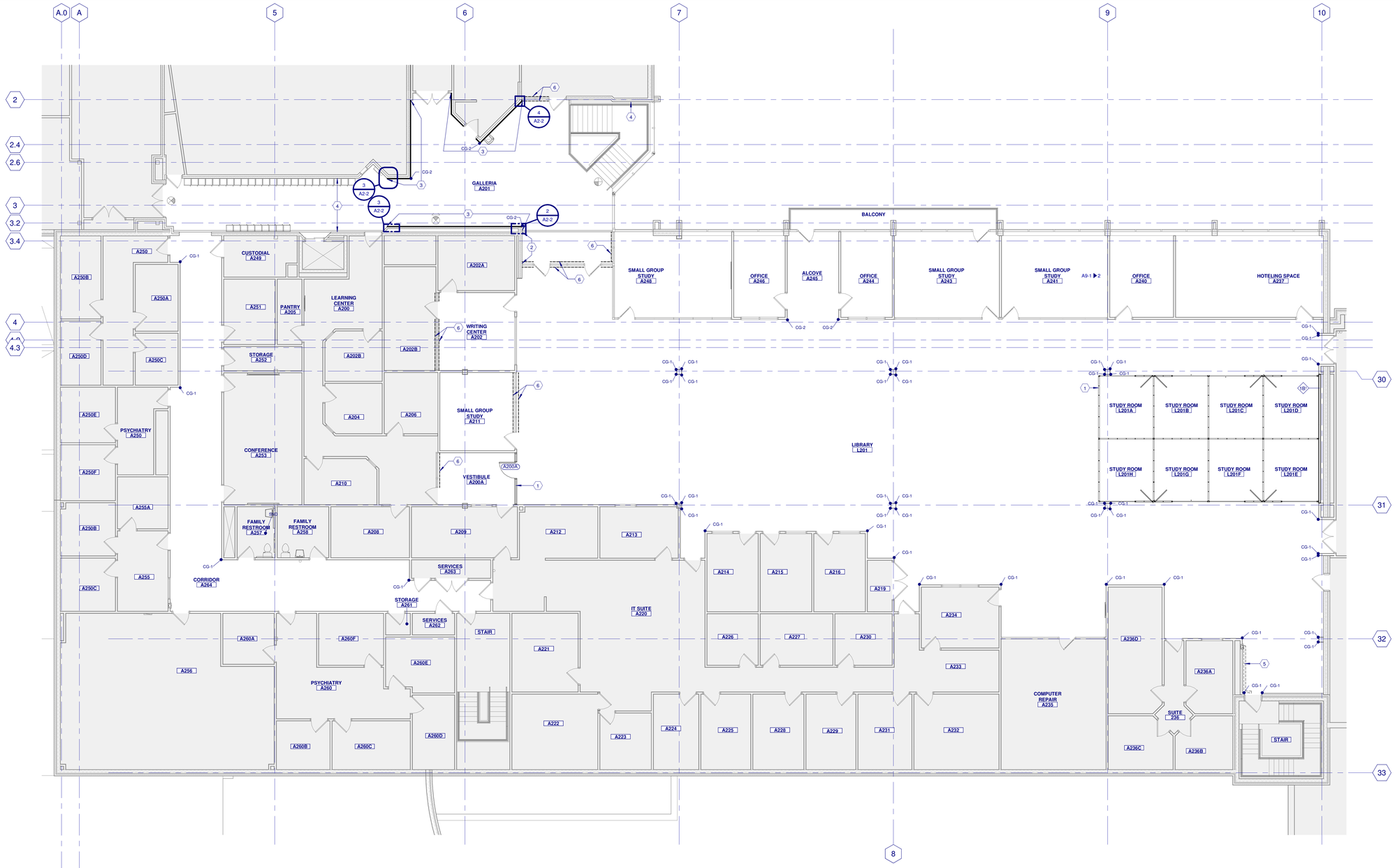
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DEMOLITION PLAN - LEVEL 2

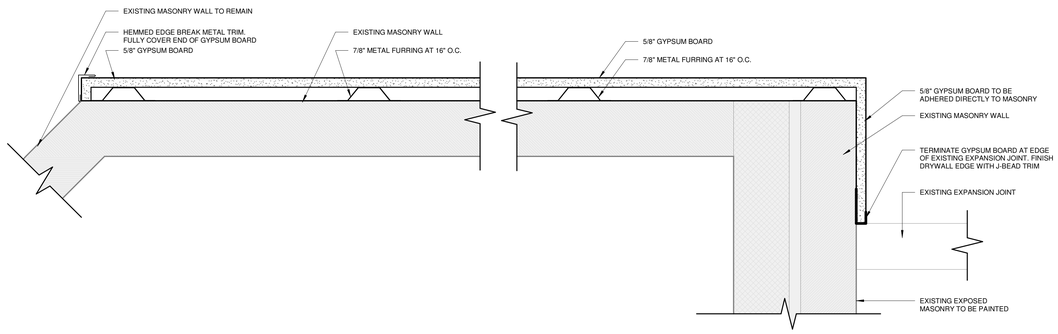
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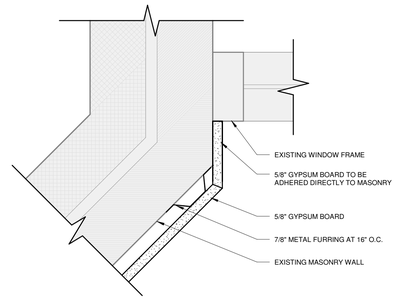


1 FLOOR PLAN - LEVEL 2
SCALE: 1/8" = 1'-0"



3 WALL FURRING DETAIL
SCALE: 3" = 1'-0"

2 WALL FURRING DETAIL
SCALE: 3" = 1'-0"



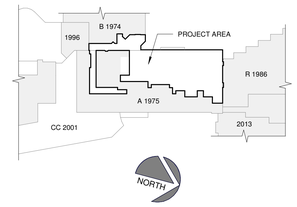
4 WALL FURRING DETAIL
SCALE: 3" = 1'-0"

FLOOR PLAN CODED NOTES

NOTE: ALL CODED NOTES MAY NOT APPEAR ON EVERY SHEET

1	GLASS /ALUMINUM PARTITION SYSTEM TO MATCH PREVIOUS QUIET STUDY PROJECT. TO BE PURCHASED AND INSTALLED BY OWNER.
2	PORTION OF EXISTING BRICK TO BE PAINTED.
3	PORTION OF EXISTING BRICK WALL TO BE FURRED OUT WITH STUDS AND DRYWALL.
4	EXISTING BRICK TO REMAIN AS IS.
5	EXISTING PIPE NEAR CEILING TO BE PAINTED TO MATCH NEW WALL COLOR
6	2x MAPLE CHAIR RAIL, MATCH THICKNESS AND HEIGHT OF EXISTING CHAIR RAIL THAT WAS REMOVED. SECURE TO ALUMINUM FRAMING UTILIZING EXISTING FASTENER LOCATIONS. COUNTERSINK ALL FASTENERS AND PRVIDE WOOD PLUGS TO MATCH. PROVIDE CLEAR SEALER TO MATCH EXISTING GALLERIA HANDRAIL

KEY PLAN - LEVEL 2



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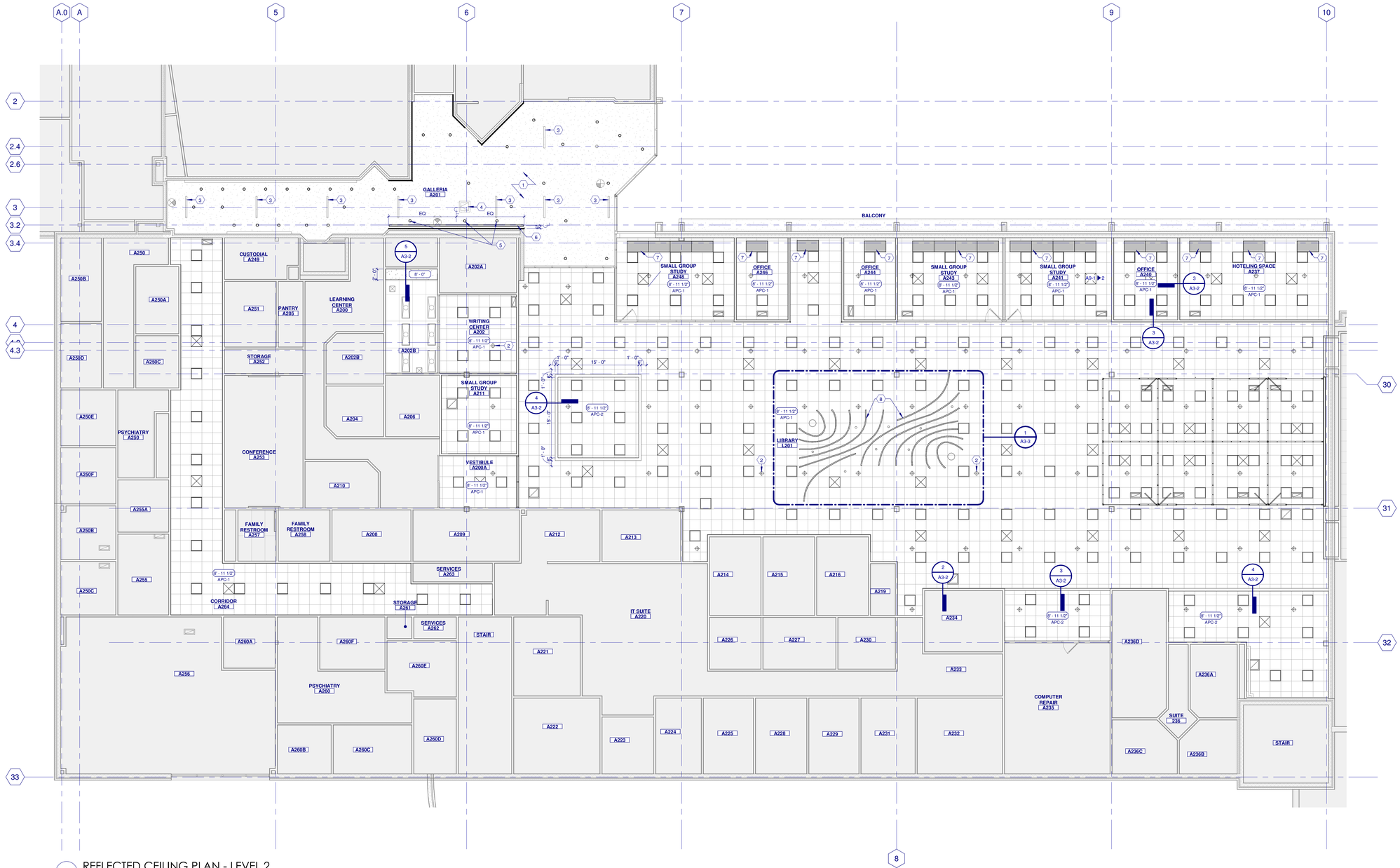
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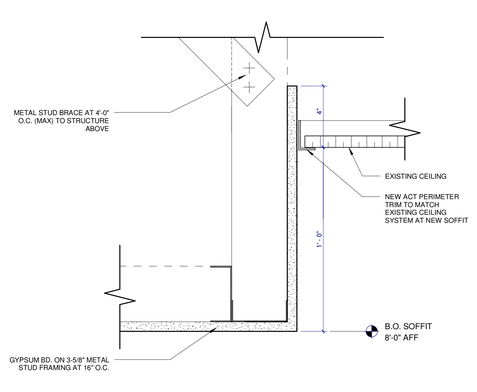
FLOOR PLAN - LEVEL 2

A2-2

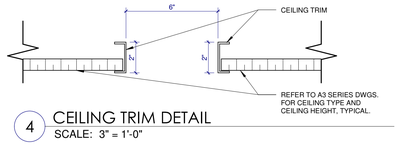
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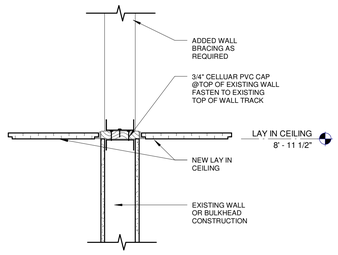
1 REFLECTED CEILING PLAN - LEVEL 2
SCALE: 1/8" = 1'-0"



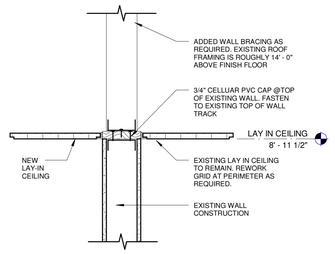
5 SOFFIT DETAIL
SCALE: 3" = 1'-0"



4 CEILING TRIM DETAIL
SCALE: 3" = 1'-0"



3 CEILING DETAIL
SCALE: 1 1/2" = 1'-0"



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

GENERAL NOTES

1. REFER TO ELECTRICAL, MECHANICAL, & FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION ABOUT LIGHTS, DIFFUSERS, SPRINKLERS, ETC.
2. CENTER ALL ENGINEER ITEMS IN CEILING TILES UNLESS NOTED OR DIMENSIONED OTHERWISE.
3. ACOUSTICAL PANEL CEILING SYSTEM IS APC-1, TYPICAL UNLESS NOTED OTHERWISE. REFER TO PROJECT MANUAL FOR TYPES.
4. TYPICAL CEILING HEIGHT IS 8'-11 1/2" +/- UNLESS NOTED OTHERWISE.
5. CENTER CEILING GRIDS IN ROOMS UNLESS NOTED OR DIMENSIONED OTHERWISE.

CODED NOTES

NOTE: ALL CODED NOTES MAY NOT APPEAR ON EVERY SHEET

1	REPLACE EXISTING CAN LIGHTS 1 FOR 1. THIS ROOM
2	MODIFY SPRINKLER HEAD LOCATION TO WORK WITH NEW LIGHT FIXTURE LAYOUT.
3	EXISTING SLOT DIFFUSER TO REMAIN.
4	EXISTING CEILING SPACE ACCESS.
5	EXISTING CAN LIGHTS TO BE REMOVED. PATCH AND PAINT EXISTING CEILING.
6	NEW FLUSH MOUNTED WALL WASH FIXTURE
7	REFER TO MECHANICAL DRAWINGS FOR RADIANT PANEL SIZE AND CONFIGURATION
8	ACOUSTICAL BAFFLE SYSTEM

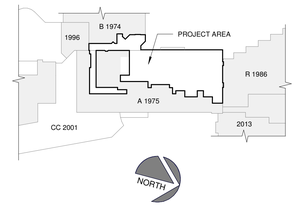
LEGEND

- ACOUSTICAL PANEL CEILING
- GYPSUM BOARD CEILING
- 8'-0" / APC-2 — CEILING HEIGHT / CEILING TYPE
- FULL TILE
- APB-X — ACOUSTICAL PANEL BAFFLE
- AIR SUPPLY GRILLE
- AIR RETURN / EXHAUST GRILLE
- LINEAR DIFFUSER
- LIGHT FIXTURE
- DOWNLIGHT
- EXIT SIGN

NOTE:

SYMBOLS FOR REFERENCE. CONFIRM CEILING MOUNTED FIXTURES W/ MEP DRAWINGS AS REQ'D.

KEY PLAN - LEVEL 2



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4	CONSTRUCTION DOCUMENTS	10/09/2026
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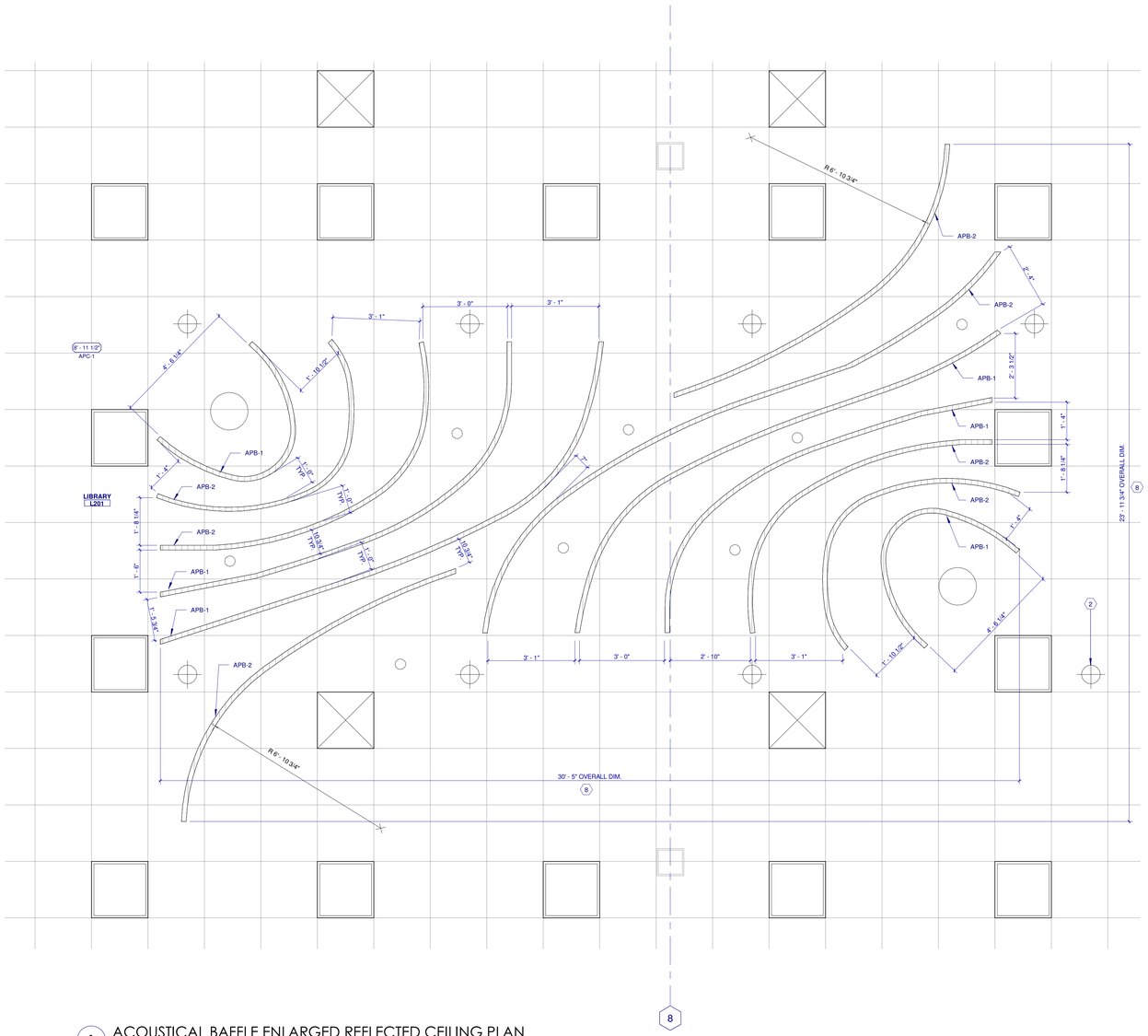
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REFLECTED CEILING PLAN - LEVEL 2

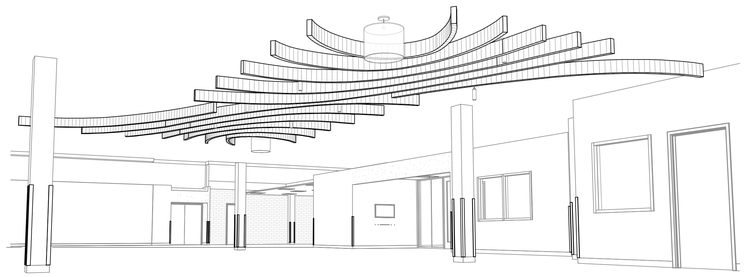
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1 ACOUSTICAL BAFFLE ENLARGED REFLECTED CEILING PLAN
SCALE: 1/2" = 1'-0"



2 3D VIEW OF ACOUSTICAL BAFFLE SYSTEM
SCALE:

GENERAL NOTES

1. REFER TO ELECTRICAL, MECHANICAL, & FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION ABOUT LIGHTS, DIFFUSERS, SPRINKLERS, ETC.
2. CENTER ALL ENGINEER ITEMS IN CEILING TILES UNLESS NOTED OR DIMENSIONED OTHERWISE.
3. ACOUSTICAL PANEL CEILING SYSTEM IS APC-1, TYPICAL UNLESS NOTED OTHERWISE. REFER TO PROJECT MANUAL FOR TYPES.
4. TYPICAL CEILING HEIGHT IS 8'-11 1/2" +/- UNLESS NOTED OTHERWISE.
5. CENTER CEILING GRIDS IN ROOMS UNLESS NOTED OR DIMENSIONED OTHERWISE.

CODED NOTES

NOTE: ALL CODED NOTES MAY NOT APPEAR ON EVERY SHEET

1	REPLACE EXISTING CAN LIGHTS 1 FOR 1. THIS ROOM
2	MODIFY SPRINKLER HEAD LOCATION TO WORK WITH NEW LIGHT FIXTURE LAYOUT.
3	EXISTING SLOT DIFFUSER TO REMAIN.
4	EXISTING CEILING SPACE ACCESS.
5	EXISTING CAN LIGHTS TO BE REMOVED. PATCH AND PAINT EXISTING CEILING.
6	NEW FLUSH MOUNTED WALL WASH FIXTURE
7	REFER TO MECHANICAL DRAWINGS FOR RADIANT PANEL SIZE AND CONFIGURATION
8	ACOUSTICAL BAFFLE SYSTEM

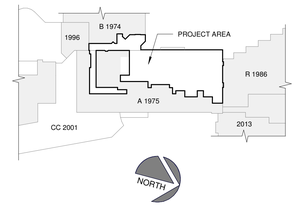
LEGEND

- ACOUSTICAL PANEL CEILING
- GYPSUM BOARD CEILING
- 8'-0" / APC-2 — CEILING HEIGHT / CEILING TYPE
- FULL TILE
- APB-X — ACOUSTICAL PANEL BAFFLE
- AIR SUPPLY GRILLE
- AIR RETURN / EXHAUST GRILLE
- LINEAR DIFFUSER
- LIGHT FIXTURE
- DOWNLIGHT
- EXIT SIGN

NOTE:

SYMBOLS FOR REFERENCE. CONFIRM CEILING MOUNTED FIXTURES W/ MEP DRAWINGS AS REQ'D.

KEY PLAN - LEVEL 2



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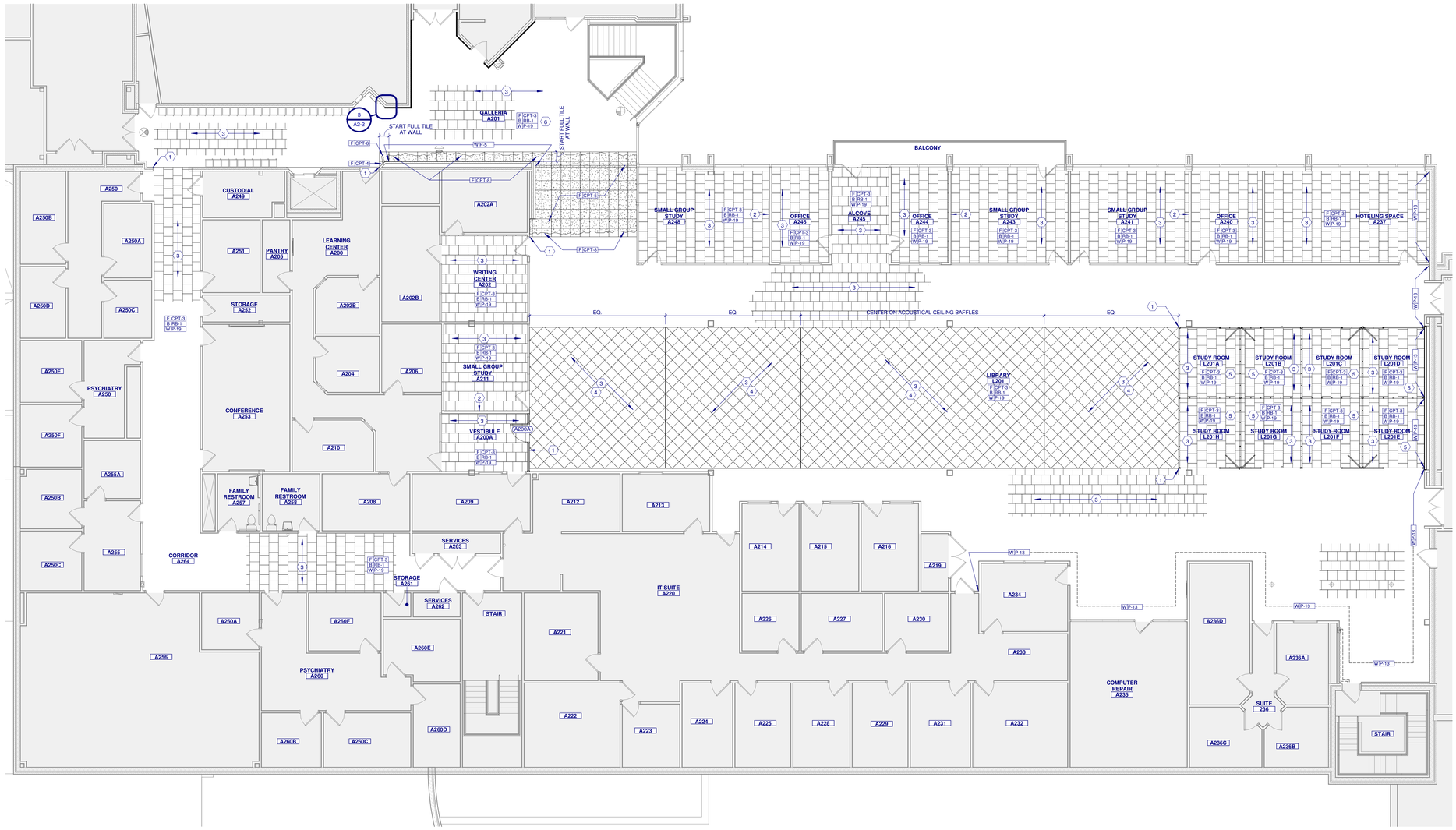
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ACOUSTICAL BAFFLES REFLECTED CEILING PLAN

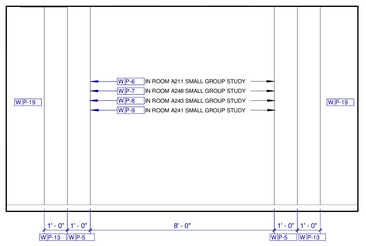
A3-3

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1 FINISH PLAN - LEVEL 2
SCALE: 1/8" = 1'-0"



SMALL GROUP STUDY FEATURE WALL ELEV.
SCALE: 3/8" = 1'-0"

FINISH PLAN CODED NOTES

NOTE: ALL CODED NOTES MAY NOT APPEAR ON EVERY SHEET

1	ALIGN WITH ARCHITECTURE.
2	REFER TO INTERIOR ELEVATION FOR FEATURE WALL PAINT ACCENT TYPES AND DIMENSIONS.
3	ARROWS INDICATE RUNNING INSTALL DIRECTION OF FLOORING.
4	CARPET TILES INSTALLED IN MONOLITHIC PATTERN AT 45 DEG ANGLE.
5	REFER TO FURNITURE DEALER PLANS AND DRAWINGS FOR LOCATIONS OF WALLS FOR START AND STOP LOCATIONS OF CARPET TILE.
6	EXISTING BRICK TO REMAIN AS IS.

TYPICAL FINISHES (UNO)

ITEM	CODE
HOLLOW METAL FRAMES	P-12
HOLLOW METAL DOORS (INTERIOR)	P-12
GYPSUM BOARD SOFFIT SURFACES & CEILINGS	P-19
EXPOSED DUCTWORK	---
GRILLES / DIFFUSERS ON EXPOSED DUCTWORK	---
EXPOSED COLUMNS	P-19
EXPOSED STRUCTURE, ROOF DECK & MEP COMPONENTS	---
ELECTRICAL DEVICE COLORS (COORD. W/ ELECTRICAL)	---

FINISH DESIGNATIONS

NOTE: NOT ALL MATERIALS / ITEMS LISTED MAY BE INCLUDED IN THE PROJECT SCOPE. REFER TO A7 SERIES FOR MILLWORK FINISHES.

CG	CORNER GUARD	RB	RUBBER BASE
CPT	CARPET TILE	RS	RESILIENT SHEET
DP	DECORATIVE PANELS	RT	RESILIENT TILE
FWP	FABRIC-WRAPPED WALL PANELS	SWP	SOUND-ABSORBING WALL PANELS
LVT	LUXURY VINYL TILE / PLANK	SSB	STAINLESS STEEL BASE
P	PAINT		

GENERAL NOTES

1. PROVIDE APPROPRIATE TRANSITION STRIPS AT EVERY LOCATION WHERE DIFFERENT FLOOR FINISHES MEET. REFER TO PROJECT MANUAL FOR PROFILES. WHEN FLOOR FINISH MATERIALS DIFFER BETWEEN ROOMS, LOCATE SEAM IN CENTER OF DOOR.
2. REFER TO PROJECT MANUAL FOR PAINT SHEENS.
3. ALL UNFINISHED GRILLE COVERS, FIRE EXTINGUISHER CABINETS, BEAMS, MISCELLANEOUS METAL & WOOD SUPPORTS, ETC. TO BE PAINTED TO MATCH THE WALL / CEILING THEY OCCUR ON.
4. CLOSETS ARE TO RECEIVE THE SAME WALL AND FLOOR FINISH AS THE ROOM THEY OPEN TO, U.N.O.
5. REFER TO "A3" SERIES DRAWINGS FOR CEILING ACCENT PAINT LOCATIONS.
6. REFER TO "A7" SERIES DRAWINGS FOR MILLWORK FINISHES AND ACCENT LOCATIONS.

NOTE: NUMBERING OF FINISH CODES ARE CONTINUOUS IN SEQUENCE FROM PREVIOUS NEOMED PROJECTS IN THE INNOVATION CENTER. NOT ALL FINISH CODES MAY OCCUR ON THIS PROJECT.

FINISH MATERIAL KEY (A) INDICATES BASIS OF DESIGN PRODUCT

CODE	MANUFACTURER	STYLE	COLOR	SIZE	REMARKS
1. FLOOR (F)					
CPT-3	MILLIKEN	LAYLINES - AMERICAS	LLN260 STORM	50 CM X 50 CM	INSTALL IN BIRCK PATTERN PER DRAWING TILE PATTERN DIRECTION U.N.O.
CPT-4	MILLIKEN	LAYLINES - AMERICAS / HORIZONTAL TRANSITION	LTH 196-260 CORNFLOWER /STORM	50 CM X 50 CM	INSTALL MONOLITHIC
CPT-5	MILLIKEN	LAYLINES - AMERICAS	LLN196 CORNFLOWER	50 CM X 50 CM	INSTALL MONOLITHIC
CPT-6	MILLIKEN	LAYLINES - AMERICAS / LEFT CORNER TRANSITION	LLC260 196 STORM / CORNFLOWER	50 CM X 50 CM	INSTALL MONOLITHIC
CPT-7	NOT USED.				
CPT-8	MILLIKEN	LAYLINES - AMERICAS / VERTICAL TRANSITION	LTV196-260 CORNFLOWER / STORM	50 CM X 50 CM	INSTALL MONOLITHIC
2. BASE (B)					
RB	ACCEPTABLE RB MANUFACTURERS; (A) JOHNSONITE/TARKETT; (B) MANNINGTON COMMERCIAL AND (C) ROPPE.				
RB-1	(A) TARKETT / JOHNSONITE	STRAIGHT BASE	20 CHARCOAL	4" H	
3. WALL (W)					
P	ACCEPTABLE MANUFACTURERS; (A) SHERWIN WILLIAMS, (B) BENJAMIN MOORE AND (C) PRATT & LAMBERT.				
P-5	(A) SHERWIN WILLIAMS		HYPER BLUE - SW 6965		
P-6	(A) SHERWIN WILLIAMS		COLOR TO MATCH PANTONE 2915C LIGHT BLUE		
P-7	(A) SHERWIN WILLIAMS		VERDANT - SW 6713		
P-8	(A) SHERWIN WILLIAMS		LOYAL BLUE - SW 6510		
P-9	(A) SHERWIN WILLIAMS		CLEMATIS - SW 6831		
P-12	(A) SHERWIN WILLIAMS		IRON ORE - SW 7069		
P-13	(A) SHERWIN WILLIAMS		KNITTING NEEDLES - SW 7672		
P-19	(A) SHERWIN WILLIAMS		EXTRA WHITE - SW 7006		
4. MISC. (M)					
CG-1	INPRO CORPORATION	STAINLESS STEEL	SATIN FINISH	1 1/2" WING X 48" H	
CG-2	INPRO CORPORATION	STAINLESS STEEL	SATIN FINISH	1 1/2" WING X 96" H	

LEGEND

DENOTES RUNNING INSTALL DIRECTION OF FLOORING

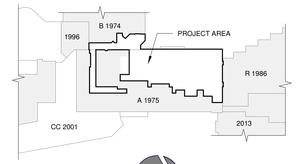
X.XXX.# DENOTES ACCENT / MULTIPLE FINISH AND EXTENT

F = FLOOR
B = BASE
W = WALL
FINISH SURFACE
MATERIAL
(SEE FINISH MATERIAL KEY)
F/C/CT.#
B/SB.#
W/P.#
DENOTES FIELD FINISH MATERIALS AND COLORS FOR LOCATION

REFER TO "A3" SERIES DRAWINGS FOR CEILING ACCENT PAINT LOCATIONS.

REFER TO "A7" SERIES DRAWINGS FOR MILLWORK FINISHES & ACCENT LOCATIONS.

KEY PLAN - LEVEL 2



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FINISH PLAN - LEVEL 2

A9-1

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FIRE PROTECTION FIRESTOP SCHEDULE

NOTE:

1. FIRESTOP ASSEMBLY TYPE (REQUIRED FIRESTOPPING MATERIALS) SHALL BE DETERMINED BY THE WALL OR FLOOR/CEILING ASSEMBLY AND PENETRATION TYPE AND SHALL BE UL LISTED AND TESTED IN ACCORDANCE WITH ASTM E814. FIRE RATING OF THE ASSEMBLY SHALL BE EQUIVALENT TO THE WALL OR FLOOR/CEILING ASSEMBLY RATING.
2. ACCEPTABLE FIRE BARRIER PRODUCTS: HILTI "FS-ONE", NELSON "FLAMESEAL" OR APPROVED EQUAL AS MANUFACTURED BY 3M.
3. IF REQUESTED, THE CONTRACTOR SHALL SHOW PROOF OF COMPLIANCE BY PROVIDING THE APPROPRIATE UL FIRESTOPPING SYSTEM NUMBER TO THE INSPECTION AUTHORITY HAVING JURISDICTION OR THE ARCHITECT/ENGINEER.

PENETRATION	RATING	U.L. SYSTEM
INSULATED METAL PIPE THROUGH GYPSUM BOARD	1 OR 2 HOUR	HILTI UL #WL5029 OR APPROVED EQUAL
INSULATED METAL PIPE THROUGH MASONRY	4 HOUR	HILTI UL #WJ5028 OR APPROVED EQUAL
INSULATED METAL PIPE THROUGH MASONRY/CONCRETE	2 HOUR	HILTI UL #CAJ5091 OR APPROVED EQUAL
INSULATED METAL PIPE THROUGH POURED CONCRETE FLOOR SLAB	2 HOUR	HILTI UL #FA5017 OR APPROVED EQUAL
METAL DUCT WITHOUT FIRE DAMPER THROUGH MASONRY/CONCRETE	1 OR 2 HOUR	HILTI UL #WJ7021 OR #WJ7022 OR APPROVED EQUAL
METAL DUCT WITHOUT FIRE DAMPER THROUGH GYPSUM BOARD	1 OR 2 HOUR	HILTI UL #WL7040 OR #WL7042 OR APPROVED EQUAL
METAL DUCT WITHOUT FIRE DAMPER THROUGH MASONRY/CONCRETE	3 HOUR	HILTI UL #CAJ7046 OR APPROVED EQUAL
METAL PIPE THROUGH GYPSUM BOARD	1 OR 2 HOUR	HILTI UL #WL1054 OR APPROVED EQUAL
METAL PIPE THROUGH MASONRY/CONCRETE	2 HOUR	HILTI UL #CAJ1291 OR APPROVED EQUAL
METAL PIPE THROUGH MASONRY/CONCRETE	3 HOUR	HILTI UL #CAJ1155 OR #CAJ1226 OR APPROVED EQUAL
METAL PIPE THROUGH POURED CONCRETE FLOOR SLAB	3 HOUR	HILTI UL #FA1017 OR APPROVED EQUAL
PLASTIC PIPE THROUGH GYPSUM BOARD	1 OR 2 HOUR	HILTI UL #WL2078 OR APPROVED EQUAL
PLASTIC PIPE THROUGH MASONRY/CONCRETE	2 HOUR	HILTI UL #CAJ2271 OR APPROVED EQUAL
PLASTIC PIPE THROUGH MASONRY/CONCRETE	3 HOUR	HILTI UL #CAJ2109 OR #CAJ2110 OR APPROVED EQUAL
PLASTIC PIPE THROUGH POURED CONCRETE FLOOR SLAB	3 HOUR	HILTI UL #FA2054 OR APPROVED EQUAL

1 - FIRE PROTECTION

1.1 GENERAL REQUIREMENTS

A. IN GENERAL, FIRE PROTECTION WORK FOR THIS PROJECT SHALL CONSIST OF DEMOLITION OF EXISTING SPRINKLER HEADS AND PIPING AND TYING INTO EXISTING SPRINKLER PIPE AND SPRINKLING REMODELED AREAS OF THE BUILDING AS INDICATED. FURNISH ALL LABOR, CONSTRUCTION EQUIPMENT AND MATERIALS NECESSARY FOR THE COMPLETE INSTALLATION OF THE FIRE PROTECTION SYSTEM AS INDICATED. ALL WORK SHALL BE IN STRICT COMPLIANCE WITH ALL GOVERNING STATE AND LOCAL CODE REQUIREMENTS, IN FULL CONFORMITY WITH THE BEST CURRENT TRADE PRACTICES AND SUBJECT TO APPROVAL OF THE ARCHITECT/ENGINEER OR HIS REPRESENTATIVE.

B. ALL WORK DETAILS NOT COVERED IN THESE SPECIFICATIONS SHALL BE GOVERNED BY THE REQUIREMENTS OF THE LATEST EDITION OF NFPA-13.

C. THE FIRE PROTECTION SYSTEM FOR THIS BUILDING IS A "WET PIPE" SYSTEM EMPLOYING AUTOMATIC SPRINKLERS ATTACHED TO A PIPING SYSTEM CONTAINING WATER AND CONNECTED TO A WATER SUPPLY SO THAT WATER DISCHARGES IMMEDIATELY FROM SPRINKLERS OPENED BY FIRE. THE SYSTEM SHALL BE DESIGNED FOR LIGHT HAZARD OCCUPANCY. STORAGE ROOMS AND OTHER AREAS DESIGNATED BY NFPA 13 SHALL BE DESIGNED FOR MORE STRINGENT OCCUPANCY.

D. INSTALLER SHALL BE LICENSED BY THE STATE OF OHIO AS A FIRE PROTECTION CONTRACTOR.

1.2 REGULATORY REQUIREMENTS

A. NFPA AND IBC COMPLIANCE: INSTALL FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH NFPA 13 "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS" AND ALL INTERNATIONAL BUILDING CODE REQUIREMENTS.

B. UL COMPLIANCE: FIRE PROTECTION SYSTEM MATERIALS AND COMPONENTS SHALL BE UNDERWRITER'S LABORATORIES LISTED AND APPROVED FOR THE APPLICATION ANTICIPATED.

C. FURNISH AND INSTALL FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH REGULATIONS REQUIRED BY THE LOCAL WATER DEPARTMENT, FIRE DEPARTMENT AND FIRE MARSHAL.

D. SYSTEM COMPONENTS SHALL MEET ALL I.R.I./F.M REQUIREMENTS.

1.3 DESIGN REQUIREMENTS

A. DESIGN SYSTEM AND PREPARE THE FIRE PROTECTION DRAWINGS AND HYDRAULIC CALCULATIONS UNDER DIRECT SUPERVISION OF A STATE CERTIFIED SPRINKLER DESIGNER. THE CONTRACTOR SHALL VERIFY HAZARD OCCUPANCY CLASSIFICATION REQUIREMENTS WITH THE OWNER.

B. PREPARE APPROVAL DRAWINGS OF FIRE PROTECTION SYSTEMS INDICATING PIPE SIZES, SPRINKLER HEAD TYPES, PIPE LOCATIONS, FITTINGS, SHUTOFFS, EQUIPMENT, ETC. SUBMIT FOR APPROVAL TO AGENCY HAVING JURISDICTION, TO THE FIRE INSPECTION AND RATING BUREAU AND TO THE OWNER'S FIRE INSURANCE UNDERWRITER. SUBMIT THREE (3) COPIES TO THE ARCHITECT FOR REVIEW BEFORE SUBMITTING TO AGENCY HAVING JURISDICTION. SUBMIT ONE APPROVED COPY TO THE ARCHITECT BEARING STAMP AND/OR SIGNATURE OF AGENCIES HAVING JURISDICTION, BEFORE PROCEEDING WITH INSTALLATION.

C. PREPARE HYDRAULIC CALCULATIONS OF FIRE PROTECTION SYSTEM. SUBMIT TO AGENCY HAVING JURISDICTION FOR APPROVAL. SUBMIT ONE COPY TO ENGINEER TO REVIEW BEFORE SUBMITTING TO AGENCY HAVING JURISDICTION, BEFORE PROCEEDING WITH INSTALLATION. THE CONTRACTOR SHALL ESTABLISH ACTUAL AVAILABILITY OF WATER FROM HISTORICAL DATA OR BY PERFORMING A FLOW TEST.

D. FACTOR OF SAFETY: PROVIDE A 10% FACTOR OF SAFETY IN ALL HYDRAULIC CALCULATIONS AS REQUIRED BY LOCAL FIRE DEPARTMENT BUT IN NO CASE LESS THAN 5 PSI MINIMUM. NO SPRINKLER PIPE SHALL BE SIZED FOR A VELOCITY GREATER THAN 20 FEET PER SECOND.

1.4 QUALITY CONTROL

A. CERTIFICATE OF INSTALLATION: SUBMIT CERTIFICATE UPON COMPLETION OF FIRE PROTECTION PIPING WORK WHICH INDICATES THAT WORK HAS BEEN TESTED IN ACCORDANCE WITH NFPA 13 AND ALSO THAT SYSTEM IS OPERATIONAL, COMPLETE AND HAS NO DEFECTS.

B. SPRINKLER PIPING FLUSHING: PRIOR TO CONNECTING SPRINKLER PIPES TO SPRINKLER MAIN, FLUSH WATER FEED MAINS, LEAD-IN CONNECTIONS AND CONTROL PORTIONS OF SPRINKLER PIPING. AFTER SPRINKLER PIPING INSTALLATION HAS BEEN COMPLETED AND BEFORE PIPING IS PLACED IN SERVICE, FLUSH ENTIRE SPRINKLER SYSTEM, AS REQUIRED TO REMOVE FOREIGN SUBSTANCES, UNDER PRESSURE AS SPECIFIED IN NFPA 13. CONTINUE FLUSHING UNTIL WATER IS CLEAR AND CHECK TO ENSURE THAT DEBRIS HAS NOT CLOGGED SPRINKLERS.

C. HYDROSTATIC TESTING: AFTER FLUSHING SYSTEM, TEST FIRE SPRINKLER PIPING HYDROSTATICALLY, FOR PERIOD OF TWO (2) HOURS, AT NOT LESS THAN 200 PSI OR AT 50 PSI IN EXCESS OF MAXIMUM STATIC PRESSURE WHEN MAXIMUM STATIC PRESSURE IS IN EXCESS OF 150 PSI. CHECK SYSTEM FOR LEAKAGE OF JOINTS. MEASURE HYDROSTATIC PRESSURE AT LOW POINT OF EACH SYSTEM OR ZONE BEING TESTED.

1. REPAIR OR REPLACE PIPING SYSTEM AS REQUIRED TO ELIMINATE LEAKAGE IN ACCORDANCE WITH NFPA STANDARDS FOR "LITTLE OR NO LEAKAGE" AND RETEST AS SPECIFIED TO DEMONSTRATE COMPLIANCE.

D. ALL FIRE PROTECTION PRESSURE TESTING AND FLUSHING SHALL BE WITNESSED BY THE OWNER'S REPRESENTATIVE. SUBMIT TEST REPORTS TO ALL AGENCIES REQUIRING SAME.

1.5 PIPING MATERIAL SCHEDULE:

A. PROVIDE PIPING MATERIALS AND FACTORY-FABRICATED PIPING PRODUCTS OF SIZES, TYPES, PRESSURE RATINGS, TEMPERATURE RATINGS AND CAPACITIES AS DETERMINED BY INSTALLER TO COMPLY WITH INSTALLATION REQUIREMENTS. PROVIDE SIZES AND TYPES MATCHING PIPING CONNECTIONS; PROVIDE FITTINGS OF MATERIALS, WHICH MATCH PIPE MATERIALS USED IN FIRE PROTECTION SYSTEMS. WHERE MORE THAN ONE TYPE OF MATERIALS OR PRODUCTS ARE INDICATED, SELECTION IS INSTALLER'S OPTION.

B. SPRINKLER PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL-THREADED OR WITH MECHANICAL JOINTS.

1.6 SPRINKLERS

A. SPRINKLERS SHALL BE UL LISTED OR FM APPROVED, WITH 175-PSIG MINIMUM PRESSURE RATING, AS MANUFACTURED BY CENTRAL SPRINKLER CORP., GLOBE FIRE SPRINKLER CORPORATION, GRINNELL FIRE PROTECTION, RELIABLE AUTOMATIC SPRINKLER CO. INC., STAR SPRINKLER INC., VICTAULIC CO. OF AMERICA OR VIKING CORP.

B. COORDINATE LAYOUT AND INSTALLATION OF SPRINKLERS WITH DUCTWORK AND EQUIPMENT ABOVE CEILINGS AND OTHER CONSTRUCTION THAT PENETRATES CEILINGS, INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, SPEAKERS, HVAC EQUIPMENT, AND PARTITION ASSEMBLIES. NO SPRINKLER PIPING SHALL BE ROUTED BENEATH AIR TERMINAL UNITS OR OTHER EQUIPMENT ABOVE ANY CEILINGS THAT MUST BE DROPPED DIRECTLY DOWN FOR SERVICE, REPAIR, OR REPLACEMENT.

C. SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF LAY IN CEILING TILES. - REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.

1.7 VALVES

A. ALL VALVES SHALL BE UL LISTED AND FM APPROVED, SUITABLE FOR INSTALLATION IN FIRE PROTECTION SYSTEMS PER NFPA REQUIREMENTS, 175PSI WOG.

1.8 VALVES INSTALLATION

A. ALL VALVES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS IN A POSITION TO ALLOW FULL STEM MOVEMENT. ON HORIZONTAL OVERHEAD RUNS, INSTALL VALVES WITH STEMS IN THE HORIZONTAL POSITION. ON HORIZONTAL RUNS NEAR THE FLOOR, INSTALL VALVES WITH STEMS IN THE VERTICAL OR 45° ANGLE POSITION.

B. IN NO CASE SHALL VALVES BE INSTALLED WITH STEMS BELOW THE HORIZONTAL POSITION.

C. PROVIDE 3/4" DRAIN VALVES WITH HOSE THREAD FITTING AND CAP WITH CHAIN AT ALL PIPING LOW POINTS, TRAPPED SECTIONS, BASES OF RISERS, AND ON EQUIPMENT SIDE OF SHUT-OFF VALVES TO PERMIT DRAINING.

D. INSTALL LISTED FIRE-PROTECTION VALVES, UNLISTED GENERAL-DUTY VALVES, SPECIALTY VALVES AND TRIM, CONTROLS, AND SPECIALTIES ACCORDING TO NFPA 13 AND 24 WHERE APPLICABLE AND AS REQUIRED BY THE INTERNATIONAL BUILDING CODE.

SPRINKLER HEAD LEGEND

SYMBOL	DESCRIPTION
	CONCEALED SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	RECESSED SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD WITH PROTECTIVE CASE

FIRE PROTECTION SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	BALL VALVE
	CHECK VALVE
	GATE VALVE
	BUTTERFLY VALVE
	GATE VALVE WITH TAMPER SWITCH
	FLOW SWITCH
	DOUBLE CHECK BACKFLOW PREVENTER WITH BYPASS METER
	POST MOUNTED SIAMESE FIRE DEPARTMENT CONNECTION
	SITE FIRE HYDRANT
FD	SANITARY FLOOR DRAIN (BY PC)
	WITHIN DARK OUTLINED AREA, THE FIRE PROTECTION CONTRACTOR SHALL REMOVE AND REWORK SPRINKLER BRANCH PIPING AND INSTALL NEW SPRINKLER HEADS AS COORDINATED WITH OTHER CONTRACTORS TO ACCOMMODATE NEW ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WORK, AND NEW CEILING LAYOUTS.

FIRE PROTECTION PIPE FITTING LEGEND

SYMBOL	DESCRIPTION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	CAP
	90° PIPE RISE OR DROP
	90° PIPE CONNECTION OUT OF BOTTOM
	90° PIPE CONNECTION OUT OF TOP
	45° PIPE CONNECTION OUT OF SIDE
	PIPING RISER DOWN
	PIPING RISER UP
	TIE-IN POINT

FIRE_PROTECTION_ABBREVIATIONS_SCHEDULE_AUTO	
ABBREVIATION	DESCRIPTION
A	AMP
FD	FLOOR DRAIN
HEAD	HEAD
IN	INCH
L	LENGTH
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PC	PLUMBING CONTRACTOR
TOP	TOP OF PIPE
UL	UNDERWRITERS LABORATORIES

FIRE PROTECTION DRAWING LIST

SHEET NUMBER	SHEET NAME
FP0-1	FIRE PROTECTION GENERAL INFORMATION
FP1-1	FIRE PROTECTION DEMOLITION PLAN - LEVEL 2

FIRE PROTECTION NEW WORK NOTES:

1. SHUT-OFF VALVES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. COORDINATE THE LOCATION OF ACCESS DOORS IN CEILINGS OR WALLS WITH THE GENERAL CONTRACTOR IF A VALVE IS REQUIRED TO BE LOCATED ABOVE AN INACCESSIBLE CEILING OR IN A WALL OR CHASE.
2. SPRINKLER HEADS SHALL BE LOCATED IN CENTER OF CEILING TILES. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATION OF SPRINKLER HEAD LOCATIONS.
3. SPRINKLER PIPING ROUTED ABOVE LAY-IN CEILINGS SHALL BE INSTALLED WITH AT LEAST 6 INCHES OF CLEARANCE FROM THE BOTTOM OF THE PIPE TO THE TOP OF THE LAY-IN SUPPORT MEMBERS FOR CEILING TILE REMOVAL.
4. CONTROL VALVES SHALL BE LABELED SO AS TO INDICATE THE AREA/ZONE THAT IS SERVICED BY THE VALVE.
5. INSPECTORS TEST VALVES SHALL BE LOCATED IN CONVENIENT LOCATIONS WITHIN 7 FEET OF THE FLOOR AND SHALL DISCHARGE INTO AN APPROVED AREA WHERE FULL FLOW UNDER FULL WORKING PRESSURE WILL NOT CAUSE WATER DAMAGE OR SAFETY HAZARDS. PROVIDE HARD PLASTIC SIGNAGE WITH METAL CHAIN HANGER BELOW CEILING TO INDICATE LOCATION OF SPRINKLER TEST VALVES.
6. PIPE LENGTHS AND SIZES INDICATED ON THIS DRAWING SET ARE DIAGRAMMATIC IN NATURE AND ARE FOR DESIGN INTENT. DO NOT SCALE THE DRAWINGS. THE FIRE PROTECTION CONTRACTOR SHALL VERIFY (BY MEANS OF HYDRAULIC CALCULATIONS) ALL FINAL PIPE LENGTHS AND SIZES BEFORE INSTALLING.
7. SEE ARCHITECTURAL DRAWINGS FOR LIFE SAFETY DRAWINGS CONTAINING WALL RATINGS AND LOCATIONS.
8. DESIGN AND INSTALL SPRINKLER SYSTEM PER NFPA13 REQUIREMENTS FOR ROOM OR AREA HAZARD. COORDINATE ALL LAYOUTS WITH OTHER TRADES AND ARCHITECTURAL FINAL CEILING LAYOUTS.

GENERAL DRAWING NOTES:

1. MATERIALS ILLUSTRATED WITH LIGHT LINES ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
2. EXISTING CONDITIONS SHOWN ARE BASED ON REVIEW OF REFERENCE DRAWINGS AND GENERAL FIELD REVIEW. NOTIFY ENGINEER IF FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN. CONTRACTOR IS RESPONSIBLE FOR FIELD MEASURING AND COORDINATING DIMENSIONS FOR TIE-IN AND INSTALLATION OF ALL NEW EQUIPMENT, DUCTWORK, PIPING AND OTHER MATERIALS PRIOR TO FABRICATION.
3. MATERIALS ILLUSTRATED WITH DARK DASHED LINES SHALL BE REMOVED. THE OWNER SHALL HAVE THE RIGHT TO RETAIN ANY MATERIALS ILLUSTRATED TO BE REMOVED. IF REQUESTED BY THE OWNER, THE CONTRACTOR SHALL REMOVE MATERIALS AND RELOCATE THEM TO THE OWNER'S SPECIFIED LOCATION OF STORAGE. ALL MATERIALS NOTED TO BE RELOCATED SHALL BE TEMPORARILY STORED AND PROTECTED DURING CONSTRUCTION BY THE CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ALL MATERIALS ASSOCIATED WITH EQUIPMENT AND DUCTWORK, INCLUDING PIPING, HANGERS, SUPPORTS, POWER, CONTROLS, INSULATION, ETC.
4. MATERIALS ILLUSTRATED WITH DARK LINES ARE NEW.
5. DO NOT INSTALL ANY MATERIALS IN A LOCATION THAT HINDERS MAINTENANCE ACCESS TO ANY MATERIAL THAT REQUIRES SERVICE OR MAINTENANCE.
6. THIS CONTRACTOR SHALL REMOVE AND RE-INSTALL EXISTING CEILING SYSTEMS WHERE NECESSARY TO ACCOMMODATE ABOVE CEILING WORK. PRIOR TO REMOVAL OF CEILINGS, CONTRACTOR SHALL PHOTOGRAPH CONDITION OF EXISTING CEILINGS AND SUBMIT PHOTO DOCUMENTATION TO OWNER AND ENGINEER. CEILING REMOVAL AND REINSTALLATION WORK SHALL BE CAREFULLY PERFORMED WITH CLEAN GLOVES TO MAINTAIN CEILING APPEARANCE. CONTRACTOR SHALL REPLACE ALL DAMAGED AND/OR DIRTY CEILING TILES TO MATCH EXISTING.
7. PATCH AND PAINT WALLS, CEILINGS AND FLOORS TO MATCH EXISTING AS REQUIRED TO ACCOMMODATE WORK.
8. AREAS OF THIS BUILDING UTILIZE A RETURN AIR PLENUM. ALL MATERIALS SHALL HAVE A MAXIMUM 25 FLAME SPREAD AND 50 SMOKE-DEVELOPED INDEX AS TESTED IN ACCORDANCE WITH ASTME 84 OR UL 723. WIRING SHALL BE PLENUM RATED PER NFPA 70.

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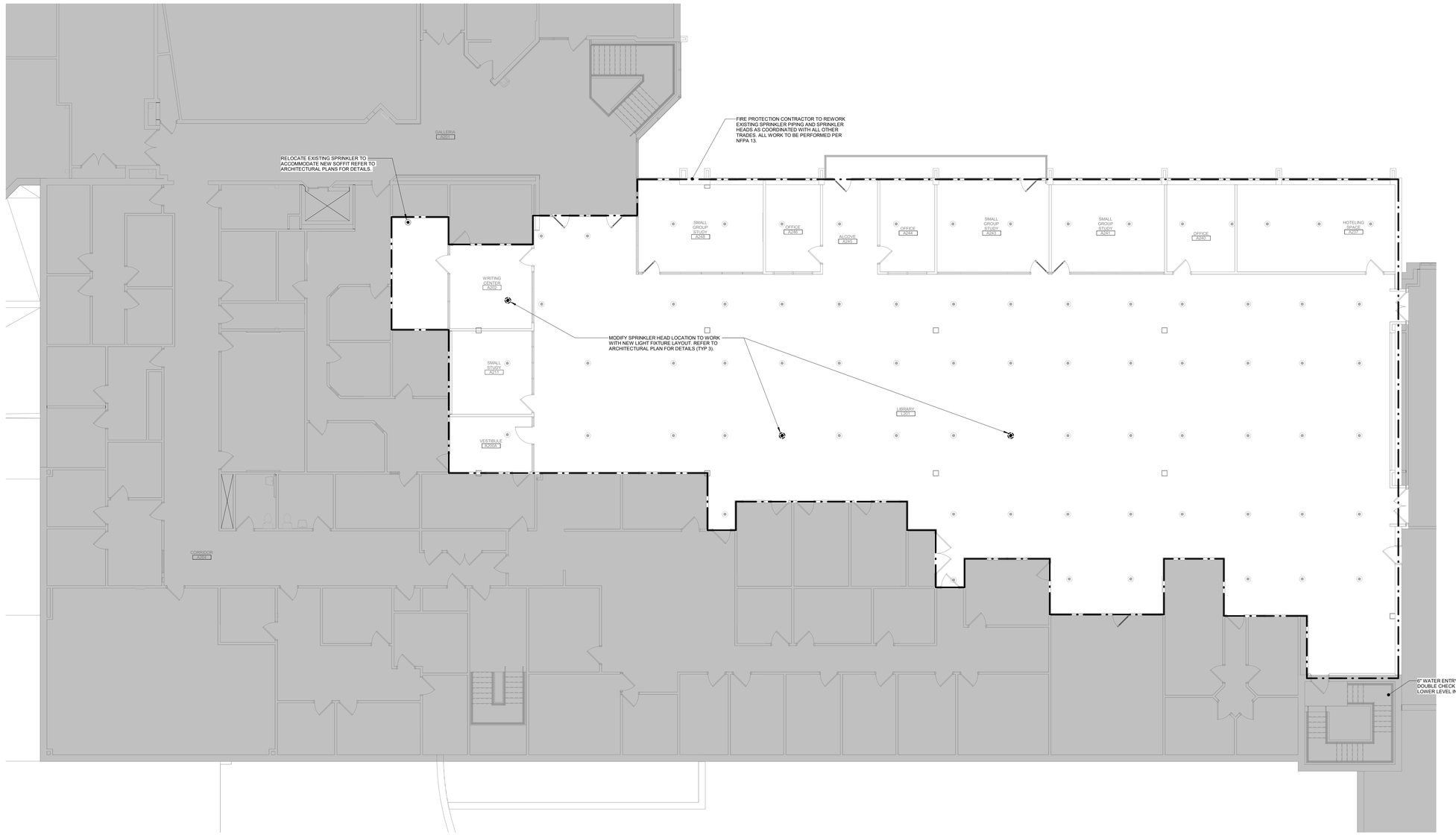
FIRE PROTECTION GENERAL INFORMATION

FP0-1

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1 FP1-1 **FIRE PROTECTION DEMOLITION PLAN - LEVEL 2**
1/8" = 1'-0"

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FIRE PROTECTION DEMOLITION PLAN - LEVEL 2

FP1-1

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CONTROL SYMBOLS LEGEND

SYMBOL	DESCRIPTION
VFD	VARIABLE FREQUENCY DRIVE
AFMS	AIRFLOW MEASURING STATION
T	SINGLE POINT TEMPERATURE SENSOR (DUCT MOUNTED)
T	ADJUSTABLE DDC THERMOSTAT (WALL MOUNTED)
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
CSR	CURRENT SENSING RELAY
	DUCT AVERAGING TEMPERATURE SENSOR
	THREE-WAY TCV
	TWO-WAY TCV
AI - X	ANALOG INPUT TO BAS
AO - X	ANALOG OUTPUT TO BAS
DI - X	DIGITAL INPUT TO BAS
DO - X	DIGITAL OUTPUT TO BAS
INT - X	INTEGRATION TO BAS

DUCTWORK FITTING LEGEND

SYMBOL	DESCRIPTION
	45° ENTRY BOOT TAKE-OFF (RECTANGULAR TO RECTANGULAR)
	90° ENTRY BOOT TAKE-OFF (CONICAL/BELLMOUTH FITTING)
	CONVERGING/DIVERGING TRANSITION
	DUCT CAP
UP	DUCT RISE (IN THE DIRECTION OF AIRFLOW)
DN	DUCT DROP (IN THE DIRECTION OF AIRFLOW)
	MITERED DUCT ELBOW WITH TURNING VANES
	RETURN, EXHAUST OR RELIEF AIR DUCT DOWN
	RETURN, EXHAUST OR RELIEF AIR DUCT UP
	SUPPLY OR OUTSIDE AIR DUCT DOWN
	SUPPLY OR OUTSIDE AIR DUCT UP
	SQUARE TO ROUND TRANSITION
	DOUBLE WALL DUCT
	INTERNALLY LINED DUCTWORK

MECHANICAL PIPING SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	AUTOMATIC PRESSURE INDEPENDENT BALANCING VALVE
	MANUAL BALANCING VALVE
	2-WAY TEMPERATURE CONTROL VALVE
	3-WAY TEMPERATURE CONTROL VALVE
	BALL VALVE
	CHECK VALVE
	GATE VALVE
	BUTTERFLY VALVE
	STRAINER WITH FULL SIZE VALVED BLOWDOWN WITH PLUGGED VALVE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	PETE'S PLUG
	TEMPERATURE WELL
	TIE-IN POINT
X-X PSI	PRESSURE GAUGE
X-X°F	THERMOMETER
	MANUAL AIR VALVE
	SPHERICAL RUBBER TYPE FLEXIBLE CONNECTOR
	WOVEN MESH TYPE FLEXIBLE CONNECTOR
	UNION
	PIPE GUIDE
	PIPE ANCHOR
	CAPPED THREADED HOSE CONNECTION

DUCTWORK ACCESSORIES LEGEND

SYMBOL	DESCRIPTION
("MARK"-"CFM") XX-XXX	4-WAY DIFFUSER
("MARK"-"CFM") XX-XXX	3-WAY DIFFUSER
("MARK"-"CFM") XX-XXX	2-WAY DIFFUSER
("MARK"-"CFM") XX-XXX	RETURN / EXHAUST GRILLE - CEILING MOUNTED
("MARK"-"CFM") XX-XXX	SUPPLY DIFFUSER - SIDEWALL MOUNTED
	TIE-IN POINT
FD	FIRE DAMPER
DD	DUCT DETECTOR
	MANUAL BALANCE DAMPER

PIPE FITTING LEGEND

SYMBOL	DESCRIPTION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	CAP
	90° PIPE RISE OR DROP
	90° PIPE CONNECTION OUT OF BOTTOM
	90° PIPE CONNECTION OUT OF TOP
SANITARY STANDARD	90° PIPE CONNECTION OUT OF SIDE
	45° PIPE CONNECTION OUT OF SIDE
	PIPING RISER DOWN
	PIPING RISER UP

VIEW SYMBOL LEGEND

X X-X	SECTION CUT
X X-X	ENLARGED PLAN
X X-X	DETAIL CALLOUT

MECHANICAL ABBREVIATIONS LEGEND

ABBREVIATION	DESCRIPTION
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
ASJ	ALL SERVICE JACKET
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
CFM	CUBIC FEET PER MINUTE
CU	CONDENSING UNIT
DD	DUCT MOUNTED DUCT DETECTOR
DDC	DIRECT DIGITAL CONTROLS
DIA	DIAMETER
DN	DOWN
EF	EXHAUST FAN
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
FD	FIRE DAMPER
FT	FEET
FTR	FINNED TUBE RADIATOR
GPM	GALLON PER MINUTE
HWP	HEATING WATER PUMP
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
IN	INCHES
L	LENGTH
LVL	LEVEL
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS
MC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
NC	NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PH	PHASE
PPM	PARTS PER MILLION
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RA	RETURN AIR
RF	RETURN FAN
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SF	SUPPLY FAN
TB	TERMINAL BOX
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TCV	TEMPERATURE CONTROL VALVE
TEMP	TEMPERATURE
TYP	TYPICAL
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
WPD	WATER PRESSURE DROP

MECHANICAL DRAWING LIST

SHEET NUMBER	SHEET NAME
M0-1	MECHANICAL GENERAL INFORMATION
M1-1	MECHANICAL DEMOLITION PLAN - LEVEL 2
M2-1	MECHANICAL DUCTWORK PLAN - LEVEL 2
M2-2	MECHANICAL PIPING PLAN - LEVEL 2
M2-3	MECHANICAL ROOM PLAN
M2-4	MECHANICAL PIPING PLAN - LEVEL 1
M3-1	MECHANICAL SCHEDULES AND DETAILS
M3-2	MECHANICAL SCHEDULES AND DETAILS

GENERAL DRAWING NOTES:

1. MATERIALS ILLUSTRATED WITH LIGHT LINES ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
2. EXISTING CONDITIONS SHOWN ARE BASED ON REVIEW OF REFERENCE DRAWINGS AND GENERAL FIELD REVIEW. NOTIFY ENGINEER IF FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN. CONTRACTOR IS RESPONSIBLE FOR FIELD MEASURING AND COORDINATING DIMENSIONS FOR TIE-IN AND INSTALLATION OF ALL NEW EQUIPMENT, DUCTWORK, PIPING AND OTHER MATERIALS PRIOR TO FABRICATION.
3. MATERIALS ILLUSTRATED WITH DARK DASHED LINES SHALL BE REMOVED. THE OWNER SHALL HAVE THE RIGHT TO RETAIN ANY MATERIALS ILLUSTRATED TO BE REMOVED. IF REQUESTED BY THE OWNER, THE CONTRACTOR SHALL REMOVE MATERIALS AND RELOCATE THEM TO THE OWNER'S SPECIFIED LOCATION OF STORAGE. ALL MATERIALS NOTED TO BE RELOCATED SHALL BE TEMPORARILY STORED AND PROTECTED DURING CONSTRUCTION BY THE CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ALL MATERIALS ASSOCIATED WITH EQUIPMENT AND DUCTWORK, INCLUDING PIPING, HANGERS, SUPPORTS, POWER, CONTROLS, INSULATION, ETC.
4. MATERIALS ILLUSTRATED WITH DARK LINES ARE NEW.
5. DO NOT INSTALL ANY MATERIALS IN A LOCATION THAT HINDERS MAINTENANCE ACCESS TO ANY MATERIAL THAT REQUIRES SERVICE OR MAINTENANCE.
6. THIS CONTRACTOR SHALL REMOVE AND RE-INSTALL EXISTING CEILING SYSTEMS WHERE NECESSARY TO ACCOMMODATE ABOVE CEILING WORK. PRIOR TO REMOVAL OF CEILINGS, CONTRACTOR SHALL PHOTOGRAPH CONDITION OF EXISTING CEILINGS AND SUBMIT PHOTO DOCUMENTATION TO OWNER AND ENGINEER. CEILING REMOVAL AND REINSTALLATION WORK SHALL BE CAREFULLY PERFORMED WITH CLEAN GLOVES TO MAINTAIN CEILING APPEARANCE. CONTRACTOR SHALL REPLACE ALL DAMAGED AND/OR DIRTY CEILING TILES TO MATCH EXISTING.
7. PATCH AND PAINT WALLS, CEILINGS AND FLOORS TO MATCH EXISTING AS REQUIRED TO ACCOMMODATE WORK.
8. DUCT RUNOUT SIZES TO TERMINAL EQUIPMENT (VAV BOXES, DIFFUSERS, GRILLES, ETC.) SHALL MATCH THE EQUIPMENT CONNECTION SIZE UNLESS NOTED OTHERWISE.
9. PIPING RUNOUTS TO TERMINAL EQUIPMENT (RE-HEAT COILS, FINNED TUBE RADIATION, UNIT HEATERS, CABINET UNIT HEATERS, ETC.) SHALL BE ¾" UNLESS NOTED OTHERWISE.
10. AREAS OF THIS BUILDING UTILIZE A RETURN AIR PLENUM. ALL MATERIALS SHALL HAVE A MAXIMUM 25 FLAME SPREAD AND 50 SMOKE-DEVELOPED INDEX AS TESTED IN ACCORDANCE WITH ASTME 84 OR UL 723. WIRING SHALL BE PLENUM RATED PER NFPA 70.
11. DUCT SIZES NOTED REPRESENT THE ACTUAL SHEET METAL SIZE. WHERE INTERIOR DUCT LINING IS USED, DUCT SIZES HAVE ALREADY ACCOUNTED FOR THE LINING.
12. REMOVE DUCTWORK AND PIPING BACK TO CAPPED LOCATIONS WHERE INDICATED. INSULATE CAPPED DUCTS AND PIPES THE SAME AS NEW.
13. SHUT-OFF VALVES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. COORDINATE THE LOCATION OF ACCESS DOORS IN CEILINGS OR WALLS WITH THE GENERAL CONTRACTOR IF A VALVE IS REQUIRED TO BE LOCATED ABOVE AN INACCESSIBLE CEILING OR IN A WALL OR CHASE.
14. PROVIDE ESCUTCHEONS FOR ALL PIPING PENETRATIONS OF CEILINGS IN OCCUPIED AREAS.
15. FIRESTOP ALL PENETRATIONS OF RATED CEILINGS WITH APPROPRIATE FIRESTOPPING MATERIAL. REQUIRED MATERIALS ARE INDICATED IN THE SPECIFICATIONS.

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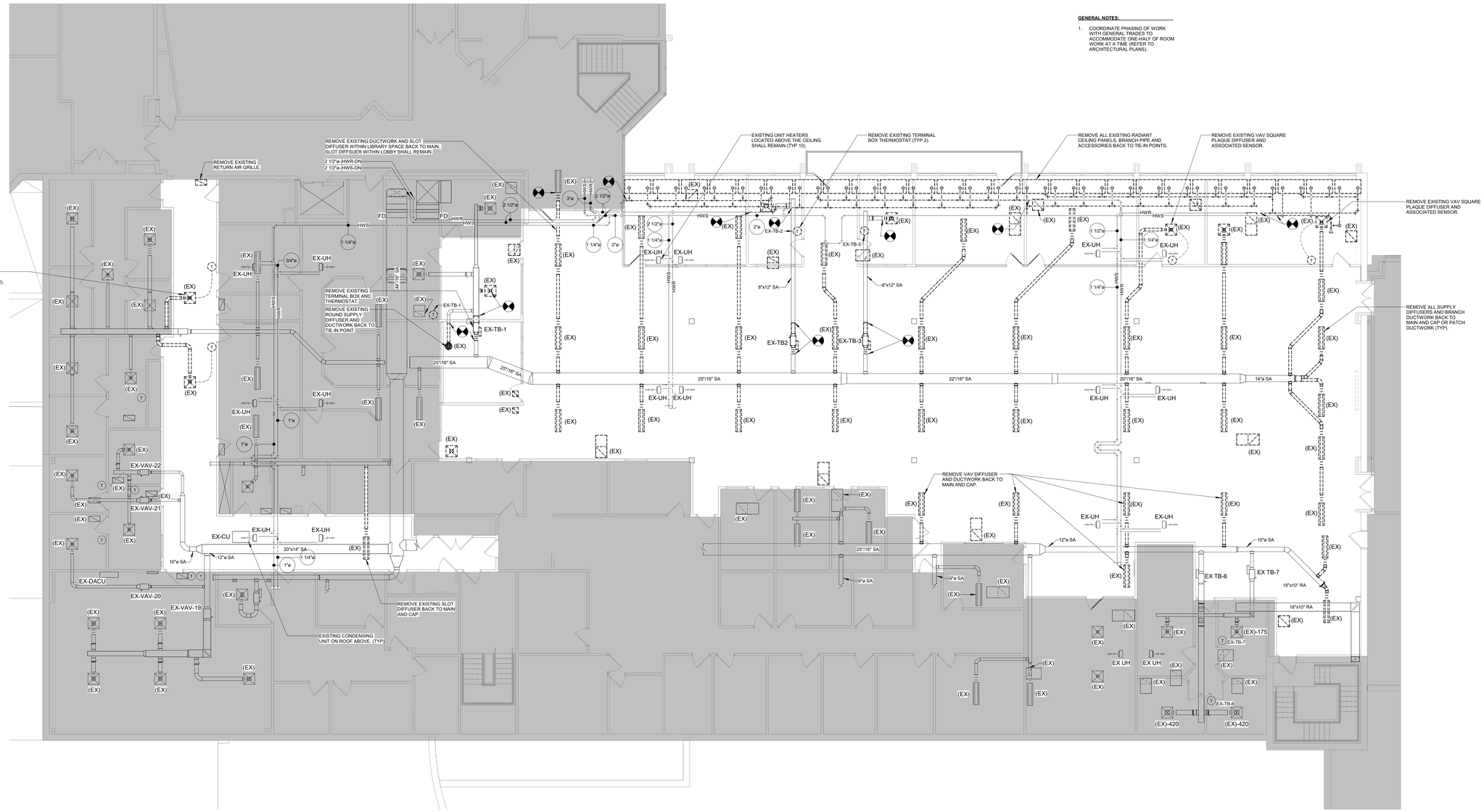
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GENERAL NOTES:

1. COORDINATE PHASING OF WORK WITH GENERAL TRADES TO ACCOMMODATE ONE-HALF OF ROOM WORK AT A TIME (REFER TO ARCHITECTURAL PLANS).

1 M1-1 **MECHANICAL DEMOLITION PLAN - LEVEL 2**
1/8" = 1'-0"

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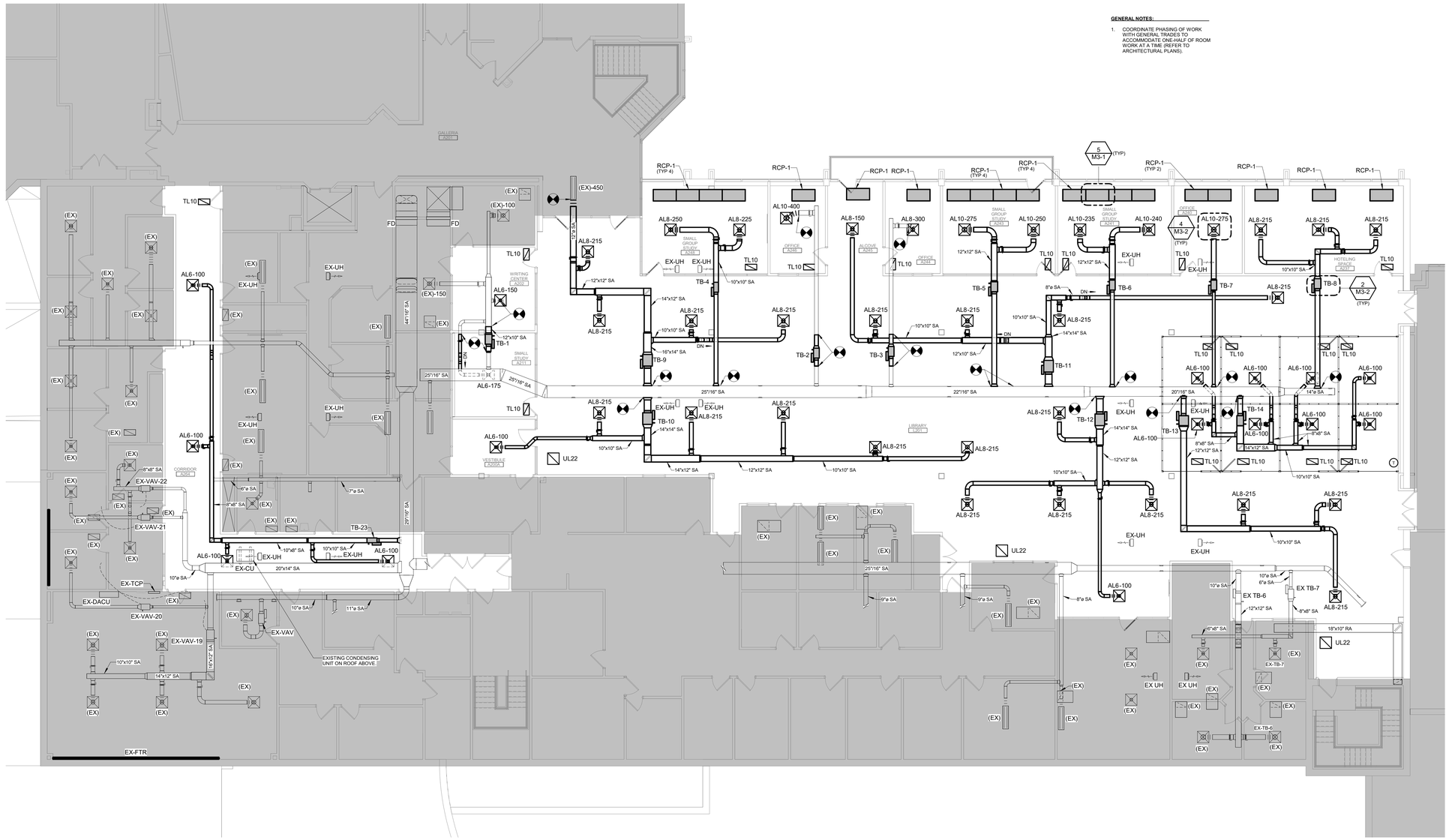
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MECHANICAL DEMOLITION PLAN - LEVEL 2

M1-1

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1 M2-1 **MECHANICAL DUCTWORK PLAN - LEVEL 2**
1/8" = 1'-0"

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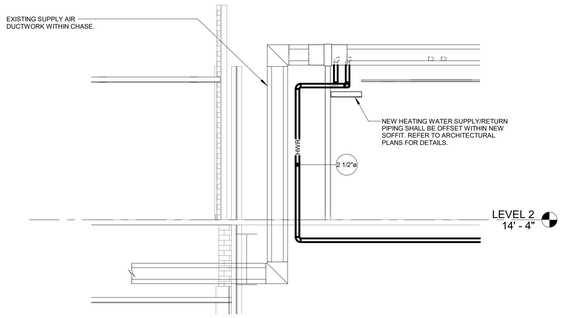
MECHANICAL DUCTWORK PLAN - LEVEL 2

M2-1

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2 / M2-2 HEATING WATER CHASE SECTION
1/4" = 1'-0"

GENERAL NOTES:

1. COORDINATE PHASING OF WORK WITH GENERAL TRADES TO ACCOMMODATE ONE-HALF OF ROOM WORK AT A TIME (REFER TO ARCHITECTURAL PLANS).

OFFSET NEW HEATING WATER PIPING WITHIN NEW SOFFIT SPACE. REFER TO ARCHITECTURAL PLANS FOR SOFFIT LOCATION AND SIZE.

COORDINATE EXTENSION OF NEW HEATING WATER MAINS THROUGH CHASE WITH OTHER TRADES AS REQUIRED TO GAIN ACCESS (CEILING ACCESS, CHASE WALL PATCHING, ETC.)

NEW RADIANT CEILING PANELS TO FIT WITHIN NEW ARCHITECTURAL CEILING PLAN UP TO EXTENTS OF NEW WALL. COORDINATE EXACT DIMENSIONS WITH ARCHITECTURAL PLANS AND FIELD CONDITIONS. REWORK PIPING AND CONTROLS TO ACCOMMODATE (TYP)

BALL VALVE (TYP).

PROVIDE BYPASS BALANCE VALVE WITH ISOLATION VALVES. BALANCE TO 20 GPM UNDER DAY 1 CONDITIONS FOR STABLE PUMP CONTROL. NOTE 2"Ø BYPASS LOCATED FOR FUTURE RENOVATIONS / EXTENSION OF HWS/R PIPING TO NEIGHBORING AREAS.

PIPE GUIDE (TYP).

HWS/R EXPANSION LOOP. 2'-0" WIDE & 3'-4" DEEP. CENTER BETWEEN PIPE GUIDES 12' APART AND PIPE ANCHORS 100' APART.

PIPE ANCHOR (TYP)

VALVE AND CAP 2" HWS/R FOR FUTURE.

1 / M2-2 MECHANICAL MECHANICAL PIPING PLAN - LEVEL 2
1/8" = 1'-0"

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ERIC J. WRIGHT — STATE OF OHIO — REGISTERED PROFESSIONAL ENGINEER

ISSUE / REVISION		DATE
1	SD SET	07/10/2026
2	DD SET	08/14/2026
3	OWNER REVIEW SET	09/10/2026
4	CONSTRUCTION DOCUMENTS	10/09/2026
5	BID AND PERMIT	10/16/2026

PROJECT NO. 26028.000

MECHANICAL PIPING PLAN - LEVEL 2

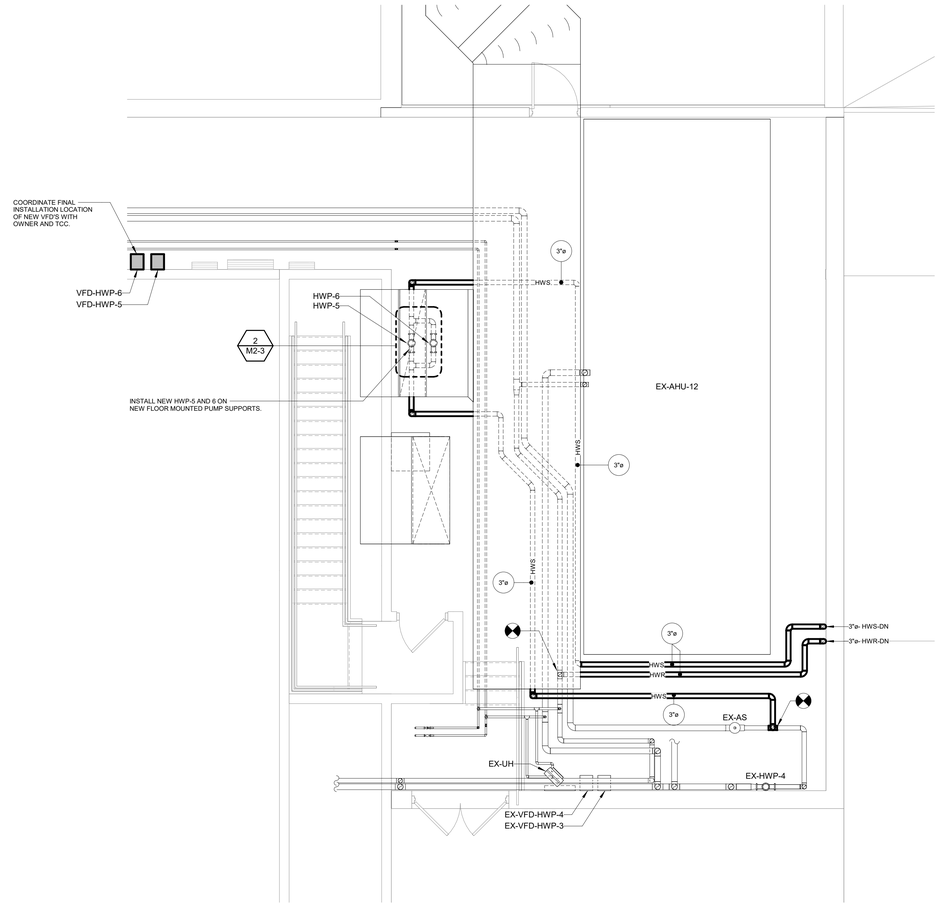
M2-2

NO.

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2 M2-3 **PUMP LOCATION DETAIL**
NTS



1 M2-3 **MECHANICAL ROOM PLAN - LEVEL 2**
1/4" = 1'-0"

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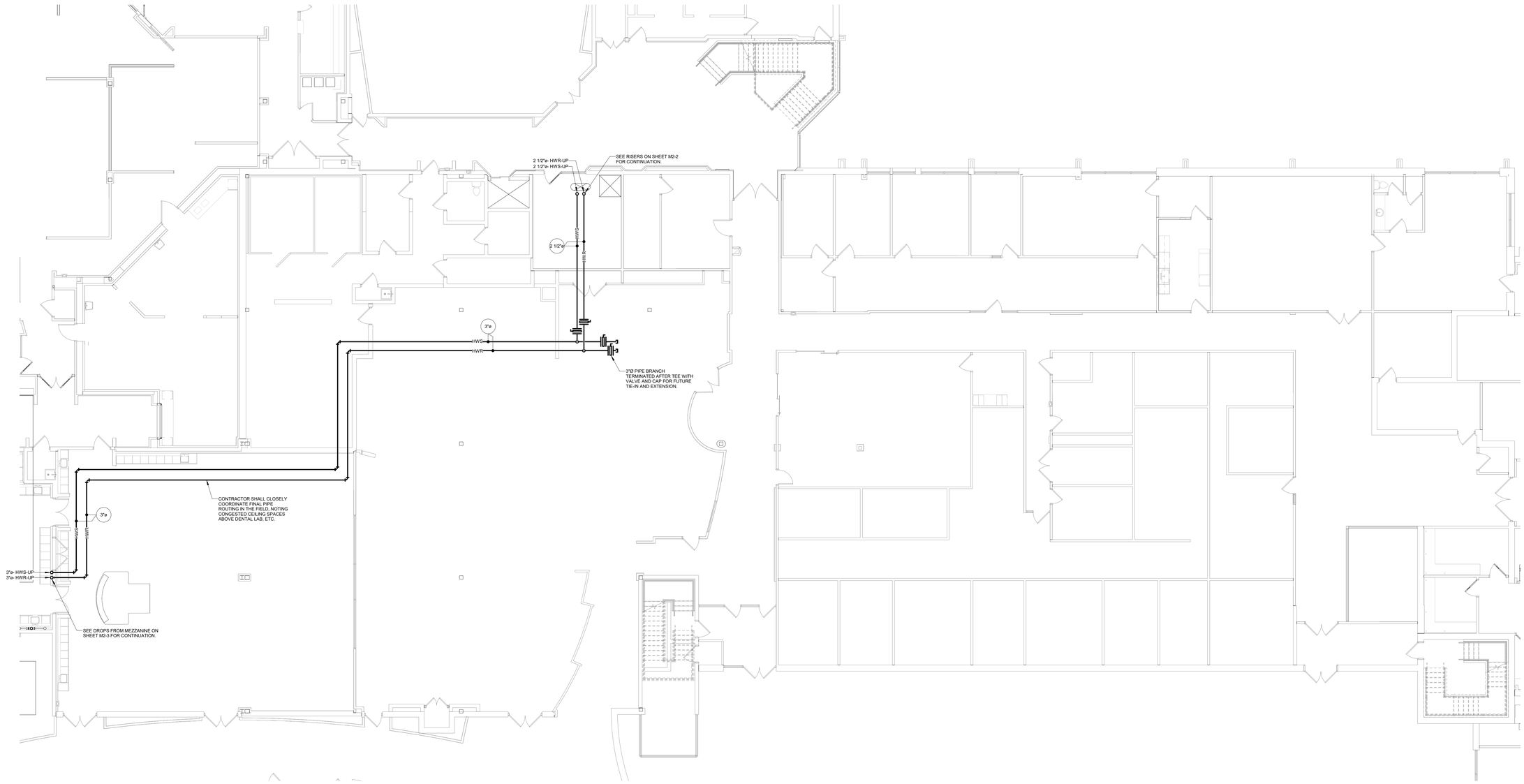
MECHANICAL ROOM PLAN

M2-3

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1 M2-4 **MECHANICAL PIPING PLAN - LEVEL 1**
1/8" = 1'-0"

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MECHANICAL PIPING PLAN - LEVEL 1

M2-4

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RADIANT CEILING PANEL SCHEDULE

REMARKS:
1. COORDINATE FINAL FINISH/COLOR WITH ARCHITECT.
2. PROVIDE NOTCHES/CUTOUTS IN PANELS AS NECESSARY TO ACCOMMODATE (COULMN) PROTRUSIONS.
3. MANUFACTURER REPRESENTATIVE SHALL LAYOUT PANEL SEGMENTS AND CONNECTION POINTS AS REQUIRED FOR PRODUCT. MC SHALL COORDINATE PIPING WITH FINAL LAYOUT.

MARK	MANUFACTURER	MODEL	TRUE PASSES	FLUID	GPM	EWT	LWT	CAPACITY (BTU / HR PER FT)	DIMENSIONS		CONTROL VALVE	REMAKRS
									DEPTH (IN)	LENGTH (IN)		
RCP-1	RITTLING	RCP	8	H2O	0.5	140	110	226	24	SEE FLOOR PLANS	TWO-WAY	ALL

HYDRONIC PUMP SCHEDULE

REMARKS:
1. PUMPS CONTROLLED VIA VFD SHALL BE FURNISHED WITH MAXIMUM NON-OVERLOADING IMPELLER DIAMETER AND GROUNDING RINGS.
2. NOTE PUMPS ARE SIZED FOR FUTURE CAPACITY VIA EXTENSION OF HEATING WATER MAINS. UPON COMPLETION OF THIS WORK SCOPE, BALANCER SHALL SET PUMPS TO 35 GPM (15.5 GPM CONNECTED WITH 20 GPM BYPASS).

MARK	MANUFACTURER	MODEL	TYPE	FLUID	SERVICE	GPM	HEAD (FT)	RPM	BHP	MHP	ELECTRICAL			REMARKS
											VOLTS/PH	DISCONNECT	STARTER	
HWP-5	TACO	KV-1509	INLINE	H20	HEATING WATER SYSTEM	75	80	1,760	4.25	5	208/3	HWP-VFD-5	HWP-VFD-5	ALL
HWP-6	TACO	KV-1509	INLINE	H20	HEATING WATER SYSTEM	75	80	1,760	4.25	5	208/3	HWP-VFD-6	HWP-VFD-6	ALL

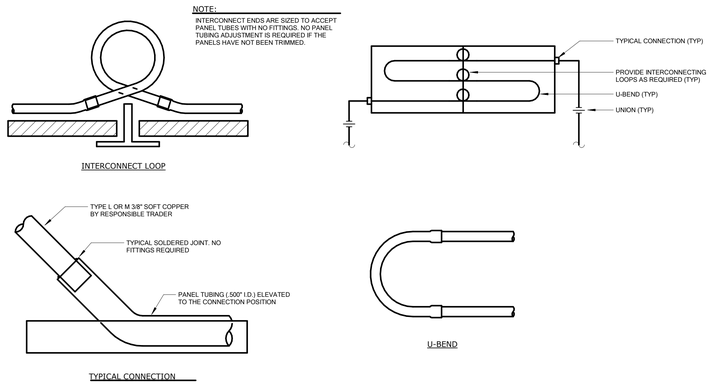
VARIABLE FREQUENCY DRIVE SCHEDULE

REMARKS:
1. VFDS SHALL BE FURNISHED BY THE TCC AND INSTALLED BY THE EC UNLESS NOTED OTHERWISE.

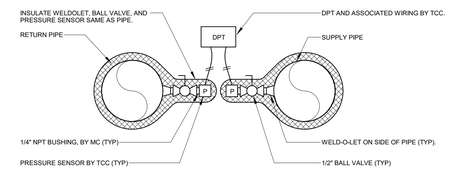
MARK	MANUFACTURER	MODEL	ELECTRICAL			BYPASS	PULSE	REMARKS
			VOLTS/PH	HP	DISCONNECT BY			
VFD-HWP-5	ABB	ACH580-VCR-017A-2+F267	208/3	5	MFR CIRCUIT BREAKER	YES	6	1
VFD-HWP-6	ABB	ACH580-VCR-017A-2+F267	208/3	5	MFR CIRCUIT BREAKER	YES	6	1

HEATING WATER PUMP CONTROL POINTS LIST

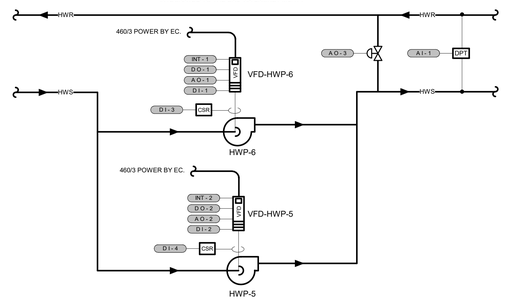
POINT	DESCRIPTION
AO-1	HWP-6 SPEED MODULATION
AO-2	HWP-5 SPEED MODULATION
AO-3	BY-PASS CONTROL VALVE MODULATION
AI-1	DIFFERENTIAL PRESSURE TRANSDUCER
DO-1	HWP-6 START/STOP
DO-2	HWP-5 START/STOP
DI-1	HWP-6 VFD ALARM
DI-2	HWP-5 VFD ALARM
DI-3	HWP-6 STATUS
DI-4	HWP-5 STATUS
INT-1	HWP-6 INTEGRATION
INT-2	HWP-5 INTEGRATION



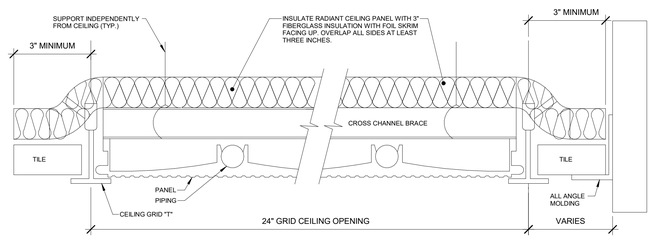
7 / M3-1 HYDRONIC RADIANT CEILING PANEL PIPING COMPONENTS
12" = 1'-0"



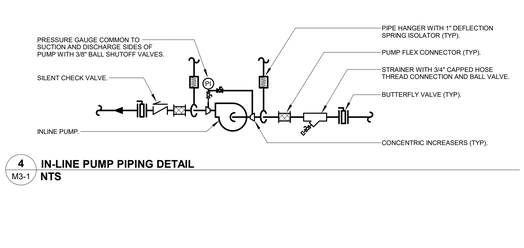
3 / M3-1 DIFFERENTIAL PRESSURE TRANSMITTER INSTALLATION DETAIL
NTS



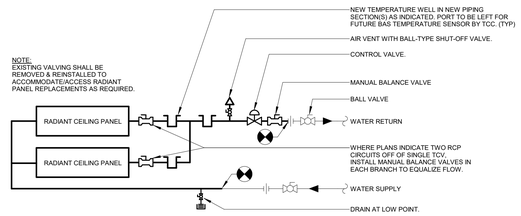
1 / M3-1 HWP-5 AND 6 CONTROL DETAIL
NTS



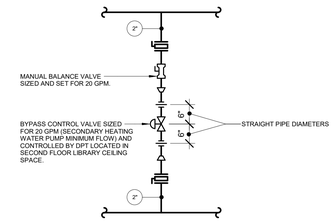
5 / M3-1 RADIANT CEILING PANEL - LAY IN CEILING
NTS



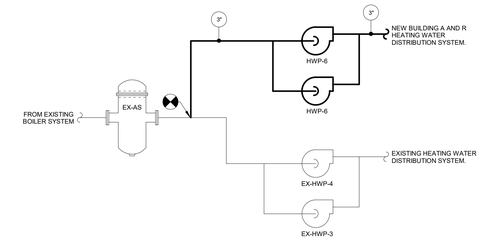
4 / M3-1 IN-LINE PUMP PIPING DETAIL
NTS



6 / M3-1 HYDRONIC RADIATION PANEL PIPING DETAIL
NTS



8 / M3-1 HEATING WATER BYPASS PIPING DETAIL
NTS



2 / M3-1 BUILDING A & R HEATING WATER DISTRIBUTION PIPING DETAIL
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MECHANICAL SCHEDULES AND DETAILS

M3-1

NO.

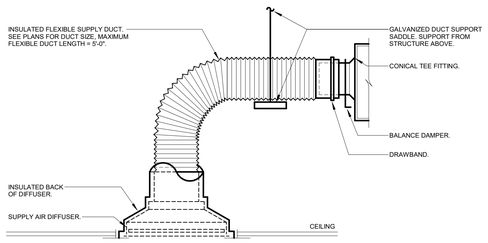
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GRILLE AND DIFFUSER SCHEDULE

REMARKS:
1. FINISH SHALL BE WHITE, UNLESS NOTED OTHERWISE.
2. FURNISH ALL DIFFUSERS WITH FACTORY INSULATED R-6 FOIL-BACKED INSULATION.
3. BALANCE ALL EXISTING GRILLES AND DIFFUSERS TAGGED "EX" TO THE AIRFLOW INDICATED ON THE PLANS.
4. FURNISH WITH PRICE RETURN AIR CANOPY (RAC) OR APPROVED EQUAL.

MARK	MANUFACTURER	MODEL	SERVICE	MOUNTING	INLET SIZE	OVERALL SIZE	MAX AIRFLOW (CFM) EACH	THROW PATTERN	MAX NC	REMARKS
AL6	PRICE	SPD	SUPPLY	LAY-IN	6" DIA	24"x24"	100	4-WAY	25	1, 2
AL8	PRICE	SPD	SUPPLY	LAY-IN	8" DIA	24"x24"	215	4-WAY	25	1, 2
AL10	PRICE	SPD	SUPPLY	LAY-IN	10" DIA	24"x24"	400	4-WAY	25	1, 2
TL10	PRICE	80	RETURN	LAY-IN	22"x10"	24"x12"	1650	N/A	25	1, 4
UL22	PRICE	80	RETURN	LAY-IN	22"x22"	24"x24"	2250	N/A	25	1, 4
EX	-	-	-	-	-	-	-	EXISTING	-	3

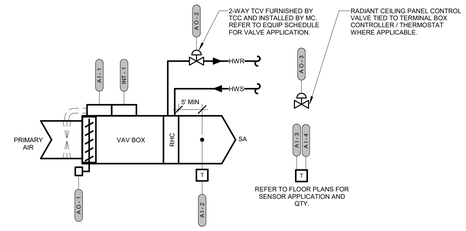


4 / M3-2 TYPICAL DUCT/DIFFUSER CONNECTION DETAIL
NTS

TERMINAL BOX SCHEDULE

REMARKS:
1. RE-HEAT COIL WPD SHALL NOT EXCEED 10FT W.C. HEAD PRESSURE.
2. RE-HEAT COIL CAPACITY SHALL BE BASED ON THE MINIMUM AIRFLOW.
3. ASSEMBLY PRESSURE DROP SHALL NOT EXCEED 0.25" W.C. AT MAX AIRFLOW (INCLUDING RE-HEAT COIL).
4. FURNISH WITH OVERSIZED CASING.
5. REBALANCE EXISTING-TO-REMAIN UNITS PER NEW HYDRONIC PIPING HOOKUPS.

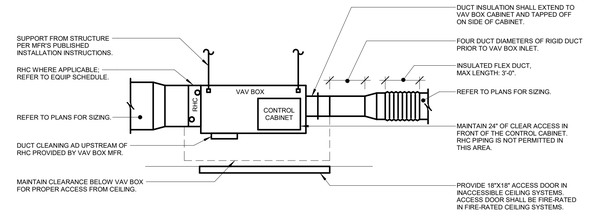
							RE-HEAT COIL					
MARK	SERVICE	MANUFACTURER	MODEL	MAX AIRFLOW	MIN AIRFLOW	INLET SIZE	MBH	EWT	LWT	GPM	CONTROL VAVLE TYPE	REMARKS
TB-1	WRITING CENTER A202	PRICE	SDV	575	350	10	14.3	140	104	0.8	TWO-WAY	1, 2, 3, 4
TB-2	OFFICE A246	PRICE	SDV	400	250	8	11.0	140	118	1.1	TWO-WAY	1, 2, 3, 4
TB-3	OFFICE A244	PRICE	SDV	300	200	8	9.1	140	112	0.7	TWO-WAY	1, 2, 3
TB-4	SMALL GROUP STUDY A248	PRICE	SDV	475	350	8	15.9	140	115	1.4	TWO-WAY	1, 2, 3, 4
TB-5	SMALL GROUP STUDY A243	PRICE	SDV	525	400	10	17.8	140	117	1.6	TWO-WAY	1, 2, 3
TB-6	SMALL GROUP STUDY A241	PRICE	SDV	475	350	8	16.0	140	116	1.4	TWO-WAY	1, 2, 3, 4
TB-7	OFFICE A240	PRICE	SDV	275	200	6	9.5	140	115	0.8	TWO-WAY	1, 2, 3, 4
TB-8	HOTELING SPACE A237	PRICE	SDV	650	500	10	23.8	140	119	2.4	TWO-WAY	1, 2, 3, 4
TB-9	LIBRARY L201	PRICE	SDV	1300	750	12	31.3	140	110	2.1	TWO-WAY	1, 2, 3, 4
TB-10	LIBRARY L201	PRICE	SDV	1200	700	12	29.4	140	109	1.9	TWO-WAY	1, 2, 3, 4
TB-11	LIBRARY L201	PRICE	SDV	1050	650	12	26.7	140	106	1.6	TWO-WAY	1, 2, 3, 4
TB-12	LIBRARY L201	PRICE	SDV	960	550	12	25.0	140	109	1.6	TWO-WAY	1, 2, 3, 4
TB-13	LIBRARY L201	PRICE	SDV	650	450	10	19.3	140	110	1.3	TWO-WAY	1, 2, 3, 4
TB-14	STUDY ROOMS	PRICE	SDV	800	450	10	19.3	140	110	1.3	TWO-WAY	1, 2, 3, 4
TB-23	CORRIDOR A260	PRICE	SDV	400	300	8	12.6	140	108	0.8	TWO-WAY	1, 2, 3, 4
EX-VAV-19	EXISTING	EXISTING	EXISTING	1300	650	EXISTING	50	140	110	3.3	TWO-WAY	5
EX-VAV-20	EXISTING	EXISTING	EXISTING	100	75	EXISTING	4	140	113	0.3	TWO-WAY	5
EX-VAV-21	EXISTING	EXISTING	EXISTING	100	75	EXISTING	4	140	113	0.3	TWO-WAY	5
EX-VAV-22	EXISTING	EXISTING	EXISTING	200	100	EXISTING	8	140	108	0.5	TWO-WAY	5



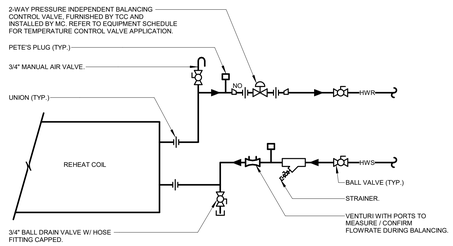
1 / M3-2 TERMINAL BOX CONTROLS DIAGRAM (HYDRONIC REHEAT)
NTS

TERMINAL BOX CONTROL POINTS LIST (HYDRONIC REHEAT)

POINT	DESCRIPTION
AO-1	VAV BOX DAMPER MODULATION
AO-2	RHC TCV MODULATION
AO-3	RCP CONTROL VALVE MODUALTION
AI-1	AIRFLOW (CFM)
AI-2	VAV BOX DISCHARGE TEMP
AI-3	SPACE TEMP
AI-4	SPACE TEMPERATURE SETPOINT
INT-1	BACNET



2 / M3-2 TERMINAL BOX INSTALLATION DETAIL
NTS



NOTE:

1. PROVIDE 8" OF CLEARANCE AT PETE'S PLUG FOR INSERTION OF TEST DEVICES.
2. SHUT-OFF VALVES, STRAINERS, AND UNIONS OR FLANGES SHALL BE FULL PIPE SIZE. PIPING TO COIL CONNECTIONS SHALL NOT BE SMALLER THAN COIL CONNECTION SIZE.
3. SEE FLOOR PLAN DRAWINGS FOR SIZES OF BRANCH PIPING TO HEATING COILS.
4. THIS DETAIL APPLIES TO TERMINAL BOXES WITH HYDRONIC REHEAT, CABINET UNIT HEATERS AND UNIT HEATERS CONTROLLED VIA TWO-WAY VALVES.
5. HEATING WATER SUPPLY SHALL BE PIPED TO THE LEAVING AIR SIDE OF THE COIL.
6. FACTORY MOUNTED PIPING PACKAGES ARE AN ACCEPTABLE OPTION IN LIEU OF FIELD INSTALLED COIL HOOKUPS. WHERE FACTORY MOUNTED PIPING PACKAGES ARE PROVIDED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING REQUIRED CLEARANCES PRIOR TO ORDERING AND SHALL BEAR ANY COST WITH MODIFYING FACTORY MOUNTED PIPING PACKAGES WHERE SUFFICIENT CLEARANCE IS NOT ACHIEVABLE DUE TO FIELD CONDITIONS.

3 / M3-2 HEATING COIL PIPING DIAGRAM (TWO-WAY)
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MECHANICAL SCHEDULES AND DETAILS

M3-2

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LIGHTING FIXTURE SCHEDULE

MARK	VOLTAGE	WATTAGE	LUMENS	COLOR TEMP	MOUNTING	DIMMING	FINISH	DIMENSION (W X L X H)	DESCRIPTION	MANUFACTURER
A1	120/277V	27	3200	4000K	LAY-IN	0-10V	WHITE	24" X 24" X 3-1/4"	RECESSED LED LIGHT FIXTURE WITH ACRYLIC DIFFUSER, ALUMINUM FRAME, AND FRAME FOR MOUNTING IN LAY-IN TEE BAR CEILING.	METALUX #22CZ2 SERIES HUBBELL #LCAT SERIES LITHONIA #BLT SERIES HE WILLIAMS #PT SERIES DAYBRITE #2FGX SERIES
A2	120/277V	32	4000	4000K	LAY-IN	0-10V	WHITE	24" X 24" X 3-1/4"	RECESSED LED LIGHT FIXTURE WITH ACRYLIC DIFFUSER, ALUMINUM FRAME, AND FRAME FOR MOUNTING IN LAY-IN TEE BAR CEILING.	METALUX #22CZ2 SERIES HUBBELL #LCAT SERIES LITHONIA #BLT SERIES HE WILLIAMS #PT SERIES DAYBRITE #2FGX SERIES
AE	120/277V	27	3300	4000K	LAY-IN	0-10V	WHITE	24" X 24" X 3-1/4"	RECESSED LED LIGHT FIXTURE WITH ACRYLIC DIFFUSER, ALUMINUM FRAME, FRAME FOR MOUNTING IN LAY-IN TEE BAR CEILING, AND INTEGRAL BATTERY BACK-UP WITH SELF DIAGNOSTIC.	METALUX #22CZ2 SERIES HUBBELL #LCAT SERIES LITHONIA #BLT SERIES HE WILLIAMS #PT SERIES DAYBRITE #2FGX SERIES LITHONIA #BLT SERIES HE WILLIAMS #PT SERIES DAYBRITE #2FGX SERIES
B1	120/277V	4/FT	400/FT	4000K	RECESSED	0-10V	ARCHITECT TO SELECT	300" X 4" X 6"	RECESSED LINEAR LED, WALL GRAZE DISTRIBUTION, AND SPOTLESS FROSTED ACRYLIC LENS CONTINIOUS FULL LENGTH (NO BREAKS).	MARK #S4CD SERIES OR APPROVED EQUAL
C1	120/277V	15	1500	4000K	RECESSED	0-10V	WHITE	6" X 6"	RECESSED LED DOWNLIGHT WITH HAZE SEMI-SPECULAR SELF-FLANGED REFLECTOR, MEDIUM BEAM, AND FRAME FOR MOUNTING IN DRYWALL CEILING.	HALO COMMERCIAL #HC6 SERIES PRESCOLITE #LBRP SERIES LITHONIA #LDN6 SERIES HE WILLIAMS #6DR SERIES LIGHTOLIER #P6R SERIES
C2	120/277V	6	500	4000K	RECESSED	0-10V	WHITE	6" X 6"	RECESSED LED DOWNLIGHT WITH HAZE SEMI-SPECULAR SELF-FLANGED REFLECTOR, MEDIUM BEAM, AND FRAME FOR MOUNTING IN DRYWALL CEILING.	HALO COMMERCIAL #HC6 SERIES PRESCOLITE #LBRP SERIES LITHONIA #LDN6 SERIES HE WILLIAMS #6DR SERIES LIGHTOLIER #P6R SERIES
CE1	120/277V	15	1500	4000K	RECESSED	0-10V	WHITE	6" X 6"	RECESSED LED DOWNLIGHT WITH HAZE SEMI-SPECULAR SELF-FLANGED REFLECTOR, MEDIUM BEAM, FRAME FOR MOUNTING IN DRYWALL CEILING, AND INTEGRAL BATTERY BACK-UP WITH SELF DIAGNOSTIC.	HALO COMMERCIAL #HC6 SERIES PRESCOLITE #LBRP SERIES LITHONIA #LDN6 SERIES HE WILLIAMS #6DR SERIES LIGHTOLIER #P6R SERIES
CE2	120/277V	22.5	2000	4000K	RECESSED	0-10V	WHITE	4" X 6"	RECESSED LED DOWNLIGHT WITH HAZE SEMI-SPECULAR SELF-FLANGED REFLECTOR, MEDIUM BEAM, FRAME FOR MOUNTING IN DRYWALL CEILING, AND INTEGRAL BATTERY BACK-UP WITH SELF DIAGNOSTIC.	HALO COMMERCIAL #HC6 SERIES PRESCOLITE #LBRP SERIES LITHONIA #LDN6 SERIES HE WILLIAMS #6DR SERIES LIGHTOLIER #P6R SERIES
D1	120/277V	21	1598	4000K	SUSPEND AT 8'AFF	0-10V	ARCHITECT TO SELECT	14" X 34" DIA	LED ACOUSTIC DRUM FIXTURE, 0-10V DIMMING, AND SUSPENSION MOUNT	LUMETTA #L411-LED SERIES OR APPROVED
F1	120/277V	26.5	1285	4000K	SUSPEND AT 8'AFF	0-10V	ARCHITECT TO SELECT	5 5/8" X 3" DIA	LED PENDANT FIXTURE, 0-10V DIMMING, BASE LUMEN OUTPUT, AND 42 DEGREE OPTIC	SYSTEMALUX #CP-1770 SERIES OR APPROVED
X1	120/277V	2	--	--	WALL MOUNT ABOVE DOOR	--	WHITE	13" X 3" X 7-1/2"	LED EXIT SIGN WITH THERMOPLASTIC HOUSING AND CANOPY, RED LETTERS, NICKEL CADMIUM BATTERY WITH SELF DIAGNOSTICS AND CHARGING CIRCUITRY. ARROWS SHALL BE AS INDICATED ON THE DRAWINGS.	SURE-LITES #LPX-7SD SERIES COMPASS #CE SERIES LITHONIA #LQM-ELN-SD SERIES EMERGI-LITE #ELXN SERIES CHLORIDE #VE SERIES

ALA

SERVICE ENTRANCE RATED: NO

BUS RATING: 225 A
VOLTAGE: 208Y/120V, 3Ø, 4W
GFP: NO
SCCR Rating: 10,000 A
NEMA ENCLOSURE: 1

MAINS TYPE: MAIN LUGS ONLY
MAINS RATING: 225 A
FEED: TOP
MOUNTING: SURFACE
EXISTING? YES

CCT	LOAD TYPE	BREAKER	LOAD (VA)	WIRE SIZE	DESCRIPTION	PHASE	CCT	LOAD TYPE	BREAKER	LOAD (VA)	WIRE SIZE	DESCRIPTION
1	R	20*	1,200	2#10, #10G	RECEPTACLES SYSTEMS FURNITURE 1	A	2	L	20/1	1,180	2#10, #10G	LIGHTING CORRIDORS
3	R	/2	1,200			B	4	L	20/1	1,216	2 #12, #12G	LIGHTING ROOMS WEST OF LIBRARY
5	R	20*	1,200	2#10, #10G	RECEPTACLES SYSTEMS FURNITURE 2	C	6	L	20/1	1,188	2#10, #10G	LIGHTING LIBRARY WEST
7	R	/2	1,200			A	8	L	20/1	1,200	(E)	LIGHTING ROOMS 226, 227
9	L	20/1	1,473	2#10, #10G	LIGHTING LIBRARY EAST 1	B	10	L	20/1	1,200	(E)	LIGHTING LIBRARY
11	L	20/1	1,242	2#10, #10G	LIGHTING LIBRARY EAST 2	C	12	L	20/1	1,200	(E)	LIGHTING LIBRARY
13	E	20/1	500	2 #12, #12G	VAV TERMINAL BOX POWER LIBRARY WEST	A	14	E	20/1	500	2#10, #10G	VAV TERMINAL BOX POWER LIBRARY EAST
15	E	20/1	500	2 #12, #12G	RADIANT PANEL CONTROL POWER LIBRARY WEST	B	16	E	20/1	500	2#10, #10G	RADIANT PANEL CONTROL POWER LIBRARY EAST
17	L	20/1	1,200	(E)	LIGHTING LUMINOUS CEILING	C	18	L	20/1	1,200	(E)	LIGHTING LUMINOUS CEILING
19	L	20/1	1,200	(E)	LIGHTING LUMINOUS CEILING	A	20	L	20/1	1,200	(E)	LIGHTING LUMINOUS CEILING
21	L	20/1	1,200	(E)	LIGHTING ROOMS 216, 217, 218	B	22	R	20/1	1,200	(E)	RECEPTACLES ROOMS 227, 226
23	L	20/1	1,200	(E)	LIGHTING ROOM 219	C	24	L	20/1	1,200	(E)	LIGHTING ROOM 211
25	L	20/1	1,200	(E)	LIGHTING ROOM 211	A	26	L	20/1	1,200	(E)	LIGHTING ROOM 211, MAIN AREA L211
27	L	20/1	1,200	(E)	LIGHTING ROOM 211, MAIN AREA L2H	B	28	L	20/1	1,200	(E)	LIGHTING ROOM 211, MAIN AREA L211
29	L	20/1	1,200	(E)	LIGHTING ROOM 211	C	30	L	20/1	1,200	(E)	LIGHTING MICRO COMPUTER LAB
31	L	20/1	1,200	(E)	LIGHTING BULL PEN L211	A	32	L	20/1	1,200	(E)	LIGHTING MICRO COMPUTER LAB
33	L	20/1	1,200	(E)	LIGHTING MICRO COMPUTER LAB	B	34	L	20/1	1,200	(E)	LIGHTING ROOM 225
35	L	20/1	1,200	(E)	LIGHTING ROOM 209, MICRO COMPUTER LAB	C	36	L	20/1	1,200	(E)	LIGHTING ROOM 222
37	L	20/1	1,200	(E)	LIGHTING ROOMS 211, 212	A	38	L	20/1	1,200	(E)	LIGHTING ROOMS 220, 221
39	R	20/1	1,200	(E)	RECEPTACLES COMPUTER	B	40	E	20/1	1,200	(E)	4 NEW OFFICES
41	E	15/1	900	(E)	EXISTING LOAD	C	42	E	20/1	1,200	(E)	4 NEW OFFICES

DEMAND LOAD BY TYPE:		TOTAL:	
RECEPTACLE (R) : 10KVA@	100%	7,200	VA
REMAINDER@	50%		
MOTOR (M) :	100%	0	VA
LARGEST MOTOR (LM) :	125%	0	VA
LIGHTING (L):	125%	43,874	VA
EQUIPMENT (E) :	100%	5,300	VA
KITCHEN EQUIPMENT (KE) :	100%	0	VA
CONTINUOUS (C) :	125%	0	VA
DWELLING UNIT (DU) :	220.82(B)	0	VA
DWELLING UNITS:		0	UNITS
DISTRIBUTION (DS) :	100%	AS STATED	

CONNECTED LOAD (VA):	
PHASE A:	15,380
PHASE B:	15,689
PHASE C:	16,530
TOTAL:	47,599

DEMAND LOAD:	
TOTAL (VA):	56,374
TOTAL (A):	156

NOTES:
-ALL CONDUIT RUNS SHALL HAVE A DEDICATED GROUND SIZED IN ACCORDANCE WITH NEC TABLE 250-122
-ALL SINGLE POLE CIRCUITS SHALL HAVE A DEDICATED FULL SIZE NEUTRAL ROUTED WITH THE PHASE CONDUCTOR
-CONDUITS SHALL BE SIZED PER THE NEC FILL LIMITS.
-CIRCUITS MAY BE ROUTED IN COMMON CONDUITS AS APPROPRIATE.
-WHERE WIRE SIZES ARE NOTED, INDICATES WIRING INSTALLED UNDER THIS PROJECT.

"-GFCI" INDICATES 5mA GFCI CIRCUIT BREAKER (PERSONNEL PROTECTION).
"-GFP" INDICATES 30mA GFCI CIRCUIT BREAKER (EQUIPMENT PROTECTION).
"-AFCI" INDICATES ARC FAULT CIRCUIT INTERRUPTER PROTECTION
"-GFAF" INDICATES COMBINED ARC FAULT CIRCUIT INTERRUPTER AND GFCI PROTECTION
*INDICATES BREAKERS FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

SLM

SERVICE ENTRANCE RATED: NO

BUS RATING: 225 A
VOLTAGE: 208Y/120V, 3Ø, 4W
GFP: NO
SCCR Rating: 22,000 A
NEMA ENCLOSURE: 1

MAINS TYPE: CIRCUIT BREAKER
MAINS RATING: 150 A
FEED: TOP
MOUNTING: SURFACE
EXISTING? YES

CCT	LOAD TYPE	BREAKER	LOAD (VA)	WIRE SIZE	DESCRIPTION	PHASE	CCT	LOAD TYPE	BREAKER	LOAD (VA)	WIRE SIZE	DESCRIPTION
1	E	20/1	1,200	(E)	ST-1B GEN CNTL POWER	A	2	M	20/1	1,000	(E)	EF-9 SIM LAB AC 128
3	E	20/1	1,200	(E)	ST-2B GEN CNTL POWER	B	4	M	15/1	1,000	(E)	EF-10 SOILED DC 122
5		20/1			SPARE	C	6	M	15/1	1,000	(E)	EF-2 SENS OPERATORY
7		20/1			SPARE	A	8	M	15/1	1,000	(E)	EF-11 WTLAB DC 126
9	R	20/1	480	(E)	RACK RETURN STERILIZATION	B	10	M	15/1	1,000	(E)	EF-3 PATIENT TOILET
11		20/1			SPARE	C	12	E	20/1	500	(E)	EM GAS SHUT OFF
13	R	20/1	360	(E)	SINK GFI STERILIZATION	A	14		20/1			SPARE
15		20/1			SPARE	B	16	R	20/1	1260	(E)	CABINET OUTLETS DENTISTRY
17		20/1			SPARE	C	18	E	20/1	1,200	(E)	XRAY-DENTAL CLINIC
19		20/1			SPARE	A	20	E	20/1	1,200	(E)	XRAY-DENTAL CLINIC
21		20/1			SPARE	B	22		20/1			SPARE
23		20/1			SPARE	C	24		20/1			SPARE
25		20/1			SPARE	A	26	M	35*	2,101		
27		20/1			SPARE	B	28	M	/	2,101	3#8, #10G	VFD-HWP-5
29		20/1			SPARE	C	30	M	3	2,101		
31		20/1			SPARE	A	32	LM	35*	2,101		
33	M	20	500	(E)	COIL DOOR - STERILE	B	34	LM	/	2,101	3#8, #10G	VFD-HWP-6
35	M	/2	500			C	36	LM	3	2,101		
37	M	20	1,500			A	38	M	20	1,500		
39	M	/	1,500	(E)	ST-1 VAC PUMP	B	40	M	/	1,500	(E)	ST-2 VAC PUMP
41	M	3	1,500			C	42	M	3	1,500		

DEMAND LOAD BY TYPE:		TOTAL:	
RECEPTACLE (R) : 10KVA@	100%	2,100	VA
REMAINDER@	50%		
MOTOR (M) :	100%	21,303	VA
LARGEST MOTOR (LM) :	125%	7,879	VA
LIGHTING (L):	125%	0	VA
EQUIPMENT (E) :	100%	5,300	VA
KITCHEN EQUIPMENT (KE) :	100%	0	VA
CONTINUOUS (C) :	125%	0	VA
DWELLING UNIT (DU) :	220.82(B)	0	VA
DWELLING UNITS:		0	UNITS
DISTRIBUTION (DS) :	100%	AS STATED	

CONNECTED LOAD (VA):	
PHASE A:	11,962
PHASE B:	12,642
PHASE C:	10,402
TOTAL:	35,006

DEMAND LOAD:	
TOTAL (VA):	36,582
TOTAL (A):	102

NOTES:
-ALL CONDUIT RUNS SHALL HAVE A DEDICATED GROUND SIZED IN ACCORDANCE WITH NEC TABLE 250-122
-ALL SINGLE POLE CIRCUITS SHALL HAVE A DEDICATED FULL SIZE NEUTRAL ROUTED WITH THE PHASE CONDUCTOR
-CONDUITS SHALL BE SIZED PER THE NEC FILL LIMITS.
-CIRCUITS MAY BE ROUTED IN COMMON CONDUITS AS APPROPRIATE.
-WHERE WIRE SIZES ARE NOTED, INDICATES WIRING INSTALLED UNDER THIS PROJECT.

"-GFCI" INDICATES 5mA GFCI CIRCUIT BREAKER (PERSONNEL PROTECTION).
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"-GFAF" INDICATES COMBINED ARC FAULT CIRCUIT INTERRUPTER AND GFCI PROTECTION
*INDICATES BREAKERS FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

ELECTRICAL DRAWING LIST

SHEET NUMBER	SHEET NAME
E0-1	ELECTRICAL GENERAL INFORMATION
E0-2	ELECTRICAL SPECIFICATIONS
E1-1	ELECTRICAL DEMOLITION PLAN - LEVEL 2
E1-2	LIGHTING PLAN - LEVEL 2
E1-3	POWER AND SYSTEMS PLAN - LEVEL 2
E1-4	ELECTRICAL ROOM PLAN - LEVEL 2

GENERAL DRAWING NOTES:

1. MATERIALS ILLUSTRATED WITH LIGHT LINES ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
2. EXISTING CONDITIONS SHOWN ARE BASED ON REVIEW OF REFERENCE DRAWINGS AND GENERAL FIELD REVIEW. NOTIFY ENGINEER IF FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN.
3. MATERIALS ILLUSTRATED WITH DARK DASHED LINES SHALL BE REMOVED. THE OWNER SHALL HAVE THE RIGHT TO RETAIN ANY MATERIALS ILLUSTRATED TO BE REMOVED. IF REQUESTED BY THE OWNER, THE CONTRACTOR SHALL REMOVE MATERIALS AND RELOCATE THEM TO THE OWNER'S SPECIFIED LOCATION OF STORAGE. ALL MATERIALS NOTED TO BE RELOCATED SHALL BE TEMPORARILY STORED AND PROTECTED DURING CONSTRUCTION BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
4. MATERIALS ILLUSTRATED WITH DARK LINES ARE NEW.
5. THE ELECTRICAL INSTALLATION MUST MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND ANY APPLICABLE STATE OR LOCAL CODES.
6. PATCH AND PAINT WALLS, CEILINGS, AND FLOORS TO MATCH EXISTING AS REQUIRED TO ACCOMMODATE WORK.
7. ALL WORK IN AREAS OUTSIDE OF DESIGNATED CONSTRUCTION AREAS SHALL BE SCHEDULED IN ADVANCE WITH THE OWNER. THE WORK SHALL BE PERFORMED AT TIMES AND DAYS AS DICTATED BY THE OWNER.
8. ALL CONDUITS SHALL BE CONCEALED, EXCEPT IN ELECTRICAL OR MECHANICAL ROOMS.
9. PROVIDE 24" MINIMUM HORIZONTAL SEPARATION BETWEEN OUTLET BOXES INSTALLED ON OPPOSITE SIDES OF A COMMON WALL SO TO MAINTAIN ACOUSTICAL INTEGRITY OF WALL AND FIRE RATING.
10. PROVIDE UL LISTED FIRE RATED SEALS FOR ALL RACEWAY PENETRATIONS THRU FIRE RATED WALLS, SLABS, AND CEILINGS IN ACCORDANCE WITH NEC 300.21.
11. ALL SINGLE POLE BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS.
12. MC TYPE CABLE MAY BE USED FOR BRANCH CIRCUIT WIRING CONCEALED ABOVE CEILINGS AND IN STUD WALLS, AND FINAL CONNECTIONS TO RECESSED LIGHT FIXTURES. ALL BRANCH CIRCUIT HOMERUNS SHALL BE INSTALLED IN CONDUIT (MC CABLING SHALL NOT ENTER INTO PANELBOARDS). ALL BRANCH CIRCUIT WIRING INSTALLED EXPOSED IN UNFINISHED SPACES SHALL BE IN CONDUIT.

SYMBOLS SCHEDULE:

- RECESSED LIGHT FIXTURE. REFER TO FIXTURE SCHEDULE FOR DESCRIPTION.
- CEILING MOUNTED EXIT SIGN. REFER TO FIXTURE SCHEDULE FOR DESCRIPTION.
- SHADE INDICATED FIXTURE WITH INTEGRAL BATTERY PACK FOR USE AS EGRESS LIGHT.
- WALL MOUNTED LINE VOLTAGE, DUAL TECHNOLOGY (PIR/ULTRASONIC) OCCUPANCY/VACANCY SENSOR 0-10V DIMMER SWITCH WITH ENGRAVED BUTTONS INDICATING FUNCTION AND FINISH AS DIRECTED BY THE ARCHITECT. SUBSCRIPT IDENTIFIES CONTROL ZONE WHERE APPLICABLE. MOUNT FLUSH IN WALL AT 44" AFF TO BOTTOM. PROVIDE SELF LAMINATING LABEL (CLEAR W/BLACK LETTERS) ON COVER TO IDENTIFY BRANCH PANEL AND CIRCUIT NUMBER. SENSOR SWITCH #sPODMA-D SERIES.
- LOW-VOLTAGE SINGLE CHANNEL, 2-BUTTON ON/OFF WALL STATION, AND FINISH AS DIRECTED BY THE ARCHITECT. SUBSCRIPT IDENTIFIES CONTROL ZONE WHERE APPLICABLE. MOUNT FLUSH IN WALL AT 44" AFF TO BOTTOM. STUB A 1"C FROM BOX TO CEILING PLENUM FOR CABLE INSTALLATION. FURNISH WITH NETWORKING CABLE FOR COMPLETE STANDALONE ROOM CONTROL NETWORK. NLIGHT #NPODMA SERIES.
- LOW VOLTAGE, SINGLE-CHANNEL, 3-BUTTON ON/OFF AND RAISE/LOWER DIMMING WALL STATION WITH ENGRAVED BUTTONS INDICATING FUNCTION AND FINISH AS DIRECTED BY THE ARCHITECT. SUBSCRIPT IDENTIFIES CONTROL ZONE WHERE APPLICABLE. MOUNT FLUSH IN WALL AT 44" AFF TO BOTTOM. STUB A 1"C FROM BOX TO CEILING PLENUM FOR CABLE INSTALLATION. FURNISH WITH NETWORKING CABLE FOR COMPLETE STANDALONE ROOM CONTROL NETWORK. NLIGHT #NPODMA-DX SERIES.
- LOW VOLTAGE, 4-CHANNEL, 8-BUTTON ON/OFF AND RAISE LOWER DIMMING WALL STATION WITH ENGRAVED BUTTONS INDICATING FUNCTION AND FINISH AS DIRECTED BY THE ARCHITECT. SUBSCRIPT IDENTIFIES CONTROL ZONE WHERE APPLICABLE. MOUNT FLUSH IN WALL AT 44" AFF TO BOTTOM. STUB A 1"C FROM BOX TO CEILING PLENUM FOR CABLE INSTALLATION. FURNISH WITH NETWORKING CABLE FOR COMPLETE STANDALONE ROOM CONTROL NETWORK. NLIGHT #NPODMA-4SB-DX SERIES.
- LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY PIR/ULTRASONIC OCCUPANCY/VACANCY SENSOR WITH EXTENDED RANGE (2000 SQ-FT), 360 DEGREE SENSOR, LOW VOLTAGE AUXILIARY CONTACT FOR BAS INTEGRATION, NETWORKING PORT, AND FINISH AS DIRECTED BY THE ARCHITECT. SUBSCRIPT IDENTIFIES CONTROL ZONE WHERE APPLICABLE. FURNISH WITH NETWORKING CABLE FOR COMPLETE STANDALONE ROOM CONTROL NETWORK. MOUNT OVER FLUSH OCTAGONAL OUTLET BOX IN CEILING. ADJUST TIME DELAY TO 20 MINUTES AND SET SENSOR TO MANUAL-ON MODE (VACANCY SENSING). NLIGHT #NCM-PDT-10 SERIES.
- 16 AMP POWER/RELAY PACK. SUBSCRIPT IDENTIFIES CONTROL ZONE WHERE APPLICABLE. MOUNT TO JUNCTION BOX ABOVE ACCESSIBLE CEILING. INSTALL SELF-LAMINATED LABEL (WHITE WITH BLACK LETTERS) IDENTIFYING BRANCH PANEL AND CIRCUIT NUMBER. FURNISH WITH NETWORKING CABLE FOR COMPLETE STANDALONE ROOM CONTROL NETWORK. NLIGHT #NPP16 SERIES.
- 16 AMP POWER/RELAY PACK WITH 0-10V DIMMING CAPABILITIES. SUBSCRIPT IDENTIFIES CONTROL ZONE WHERE APPLICABLE. MOUNT TO JUNCTION BOX ABOVE ACCESSIBLE CEILING. INSTALL SELF-LAMINATED LABEL (WHITE WITH BLACK LETTERS) IDENTIFYING BRANCH PANEL AND CIRCUIT NUMBER. FURNISH WITH NETWORKING CABLE FOR COMPLETE STANDALONE ROOM CONTROL NETWORK. NLIGHT #NPP16-D SERIES.
- EXISTING WIRELESS ACCESS POINT TO REMAIN. PROTECT AND MAINTAIN THROUGHOUT CONSTRUCTION.
- EXISTING SECURITY CAMERA TO REMAIN. PROTECT AND MAINTAIN THROUGHOUT CONSTRUCTION.
- EXISTING FIRE ALARM SPEAKER STROBE TO REMAIN. PROTECT AND MAINTAIN THROUGHOUT CONSTRUCTION.
- FIRE ALARM SYSTEM VISUAL ONLY NOTIFICATION DEVICE. REFER TO SPECIFICATIONS FOR DESCRIPTION. CEILING MOUNT OVER 4" X 1-1/2" DEEP TWO-GANG BOX WITH SINGLE GANG PLASTER RING. PROVIDE CABLING AS REQUIRED BY THE MANUFACTURER.
- FIRE ALARM SYSTEM AUDIO/VISUAL NOTIFICATION DEVICE. REFER TO SPECIFICATIONS FOR DESCRIPTION. CEILING MOUNT OVER RECESSED 4" X 1-1/2" DEEP TWO-GANG BOX WITH SINGLE GANG PLASTER RING. PROVIDE CABLING AS REQUIRED BY THE MANUFACTURER.
- JUNCTION BOX WITH BLANK SCREW COVER CONCEALED ABOVE ACCESSIBLE CEILING FOR VAV TERMINAL BOX CONTROL POWER OR RADIANT CEILING PANEL CONTROL POWER. SIZE AS REQUIRED BY THE NEC. LABEL COVER WITH PANEL/BRANCH CIRCUIT NUMBER. REFER TO DETAIL ON FLOORPLANS FOR REQUIREMENTS.
- TERMINAL CONNECTION ON EQUIPMENT FURNISHED AND SET BY OTHERS. LINE CONNECTIONS BY THE ELECTRICAL CONTRACTOR.
- VFD VARIABLE FREQUENCY DRIVE FURNISHED BY THE MECHANICAL CONTRACTOR. SET AND WIRED BY THE ELECTRICAL CONTRACTOR. FURNISH AND INSTALL ENGRAVED NAMEPLATE ON FRONT TRIM TO IDENTIFY LOAD SERVED.
- 208/120V, 3Ø, 4W PANELBOARD. REFER TO PANELBOARD SCHEDULES AND SPECIFICATIONS FOR DESCRIPTION.
- 480/277V, 3Ø, 4W PANELBOARD. REFER TO PANELBOARD SCHEDULES AND SPECIFICATIONS FOR DESCRIPTION.

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ISSUE / REVISION		DATE
1	SD SET	07/10/2026
2	DD SET	08/14/2026
3	OWNER REVIEW SET	09/10/2026
4	CONSTRUCTION DOCUMENTS	10/09/2026
5	BID AND PERMIT	10/16/2026

PROJECT NO. 26028.000

ELECTRICAL GENERAL INFORMATION

E0-1

NO.

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1.1 GENERAL REQUIREMENTS
A. RELATED DOCUMENTS
1. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND GENERAL DIVISION SPECIFICATION SECTIONS, APPLY TO THIS SECTION.
B. SCOPE
1. THE WORK SHALL INCLUDE THE FURNISHING OF SYSTEMS, EQUIPMENT, AND MATERIALS SPECIFIED IN THIS DIVISION AND AS CALLED FOR ON THE DRAWINGS, TO INCLUDE: SUPERVISION, OPERATIONS, METHODS, AND LABOR FOR THE FABRICATION, INSTALLATION, START-UP, AND TESTS FOR THE COMPLETE ELECTRICAL INSTALLATION.
2. DRAWINGS FOR THE WORK ARE DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF THE WORK AND TO INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS CONDUIT FITTINGS, ACCESS PANELS, SLEEVES, PULL AND JUNCTION BOXES MAY NOT BE SHOWN. WHERE SUCH ITEMS ARE REQUIRED BY CODE OR BY OTHER SECTIONS, OR WHERE THEY ARE REQUIRED FOR PROPER INSTALLATION OF THE WORK, SUCH ITEMS SHALL BE INCLUDED.
3. EQUIPMENT SPECIFICATIONS MAY NOT CALL OUT INDIVIDUALLY WITH MINUTE ITEMS SUCH AS COMPONENTS, PARTS, CONTROLS AND DEVICES WHICH MAY BE REQUIRED TO PRODUCE THE EQUIPMENT PERFORMANCE SPECIFIED OR AS REQUIRED TO MEET THE EQUIPMENT WARRANTIES. WHERE SUCH ITEMS ARE REQUIRED, THEY SHALL BE INCLUDED BY THE SUPPLIER OF THE EQUIPMENT, WHETHER OR NOT SPECIFICALLY CALLED FOR.
C. ELECTRICAL REFERENCE SYMBOLS
1. SYMBOLS USED ON THE FLOOR PLANS ARE DEFINED IN THE ELECTRICAL SYMBOLS SCHEDULE ON THE DRAWINGS. NOT NECESSARILY WILL ALL SYMBOLS SCHEDULED BE REQUIRED FOR THE PROJECT.
D. PERMITS, INSPECTIONS, AND CODES
1. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES FOR THE PROSECUTION OF THE ELECTRICAL WORK. ALL PERMITS AND CERTIFICATES OF INSPECTION AND APPROVAL SIGNED BY THE CONTROLLING BUILDING DEPARTMENT SHALL BECOME THE PROPERTY OF THE OWNER.
2. ALL WIRING SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE, APPLICABLE STATE AND CITY REGULATIONS, AND OSHA. IN CASES OF CONFLICT BETWEEN CODE AND SPECIFICATIONS, THE MORE RESTRICTIVE REQUIREMENTS SHALL GOVERN.
E. VISIT TO THE SITE.
1. THE ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO VISIT THE SITE OF THE WORK AND FAMILIARIZE HIMSELF WITH ALL SUCH CONDITIONS AFFECTING THE WORK. THE SUBMISSION OF HIS BID PROPOSAL SHALL PRESUPPOSE HIS KNOWLEDGE OF ALL SUCH CONDITIONS.
F. WORKMANSHIP
1. EMPLOY ONLY EXPERIENCED CRAFTSMEN UNDER DIRECT SUPERVISION OF A FULL TIME COMPETENT FOREMAN.
2. KEEP FULLY INFORMED AS TO PROGRESS OF WORK, SO THAT WORK OF THIS DIVISION MAY BE BUILT INTO PLACE IN SUFFICIENT TIME TO INSURE AGAINST DELAY TO OTHER TRADES, AND TO PREVENT MISALIGNMENTS OR DAMAGE TO ELECTRICAL WORK.
3. ALL WORK SHALL BE COMPLETED IN A NEAT AND WORKMANLIKE MANNER AS DESCRIBED AND ILLUSTRATED IN THE MOST CURRENT EDITION OF THE ANSI STANDARDS PUBLICATION "NECA STANDARD PRACTICES FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING".
G. COORDINATION, CONDUCT, AND SCHEDULING OF WORK
1. ARCHITECTURAL AND ELECTRICAL SUPERSEDE ELECTRICAL DRAWINGS. DETERMINE THAT WORK OF THIS DIVISION CAN BE ACCOMMODATED WITHIN SPACES PROVIDED. NOTIFY CONSTRUCTION MANAGER AND/OR ARCHITECT OF ANY INTERFERENCES BEFORE STARTING INSTALLATION.
2. COOPERATE WITH MECHANICAL TRADES IN PREPARING INTERFERENCE DRAWINGS FOR POINTS WHERE THERE IS POSSIBILITY OF INTERFERENCE BETWEEN TRADES. DUCTS, CONDUIT BASED ON FIELD MEASUREMENTS WITH FINAL ARRANGEMENT TO BE DETERMINED BY INTRA-TRADE AGREEMENTS SUBJECT TO CONSTRUCTION MANAGER'S AND/OR ARCHITECT'S REVIEW.
3. ENGINEER RESERVES THE RIGHT TO MAKE REASONABLE CHANGES IN INDICATED LOCATIONS WITHOUT EXTRA COST TO THE OWNER.
4. DRAWINGS OTHER THAN ELECTRICAL DRAWINGS, AND OTHER SECTIONS OF THIS SPECIFICATION, MAY SHOW OR SPECIFY ELECTRICALLY OPERATED EQUIPMENT, WIRING DIAGRAMS, ETC. THE CONTRACTOR SHALL EXAMINE ALL SUCH DRAWINGS AND SPECIFICATION SECTIONS AND BECOME FAMILIAR WITH THE CHARACTERISTICS AND REQUIRED CONNECTIONS FOR ALL EQUIPMENT.
H. MATERIALS
1. THE NATIONAL ELECTRICAL CODE (NEC) OF THE NATIONAL FIRE PROTECTION ASSOCIATION, AND PUBLICATIONS AND STANDARDS OF THE ORGANIZATIONS LISTED BELOW ARE REFERENCED HEREIN BY THE ABBREVIATIONS NOTED IN PARENTHESES, WITH OR WITHOUT ADDITIONAL IDENTIFYING SYMBOLS. UNLESS OTHERWISE SPECIFIED, ALL WORK SHALL BE MANUFACTURED, TESTED AND INSTALLED IN ACCORDANCE WITH SUCH REFERENCE STANDARDS.
a. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
b. UNDERWRITERS' LABORATORIES, INC. (UL)
c. INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
d. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
e. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
f. AMERICAN NATIONAL STANDARDS INSTITUTE, INC. (ANSI)
g. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
I. GUARANTEE
1. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE FOR A PERIOD OF ONE YEAR THAT ALL WORK AND EQUIPMENT WILL REMAIN FREE FROM ALL DEFECTS IN WORKMANSHIP AND MATERIALS, AND THAT IT WILL COMPLY WITH ALL THE SPECIFIC REQUIREMENTS OF THE SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS GOVERNING THE WORK.
2. ALL WORK FOUND TO BE DEFECTIVE WILL BE REPLACED WITH NEW WORK MEETING ALL THE REQUIREMENTS OF THE CONTRACT. THE ELECTRICAL CONTRACTOR WILL BEAR ALL COSTS OF SUPPLYING SUCH NEW WORK, AND INSTALLING AND FINISHING SAME, AND WILL ASSUME ALL COSTS FOR REPLACING OTHER WORK DAMAGED BY THE REMOVAL AND REPLACEMENT OF ANY OF THE WORK. THE ELECTRICAL CONTRACTOR WILL BEAR ALL COSTS FOR FREIGHT, DRAYAGE AND DEMURRAGE, AND ALL LABOR IN CONNECTION THEREWITH.
J. SUBMITTALS
1. THIS CONTRACTOR SHALL PREPARE OR OBTAIN FROM THE MANUFACTURER CERTIFIED SHOP OR ERECTION DRAWINGS OF THE ITEMS LISTED BELOW. AFTER CONTRACTOR'S REVIEW AND APPROVAL OF THE PROPOSED SUBMITTAL, ELECTRONIC COPIES OF EACH SHALL BE STAMPED AND SUBMITTED TO THE ARCHITECT FOR APPROVAL BEFORE PROCEEDING WITH INSTALLATION OR CONSTRUCTION.
a. SUBMITTAL DRAWINGS FOR ALL ELECTRICAL EQUIPMENT SHALL CONSIST OF FACTORY GENERATED CUTSHEETS CLEARLY INDICATING ALL ACCESSORIES AND OPTIONS BEING FURNISHED WITH THE EQUIPMENT.
2. ELECTRONIC SUBMITTALS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
a. ELECTRONIC SUBMITTALS SHALL BE IN PORTABLE DOCUMENT FORMAT (.PDF)
b. ELECTRONIC SUBMITTALS SHALL INCLUDE A TRANSMITTAL
c. ALL PORTIONS OF THE ELECTRONIC SUBMITTAL SHALL BE BOUND IN A SINGLE .PDF FILE.
d. ALL CONTENT OF THE SUBMITTAL SHALL BE VISIBLE/READABLE
e. SUBMITTALS SHALL INCLUDE A SPECIFIC NOTICE OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS.
f. ELECTRONIC SUBMITTALS SHALL INCLUDE A CONTRACTOR REVIEW STAMP THAT INDICATES REVIEW AND APPROVAL BY THE CONTRACTOR PRIOR TO SUBMISSION.
g. FAILURE TO CONFORM TO THE REQUIREMENTS ABOVE MAY RESULT IN REJECTION.
h. THE REVIEWER SHALL RETURN THE SUBMITTALS IN A FORMAT AND METHOD APPROPRIATE FOR THE PROJECT AND THE RESPONSE.
K. ENGINEER'S REVIEW
1. SHOP DRAWINGS SHALL BE REVIEWED FOR GENERAL COMPLIANCE. THE REVIEWER WILL MAKE REASONABLE EFFORTS TO DETECT AND CORRECT ERRORS, OMISSIONS AND INACCURACIES BUT SHALL NOT BE RESPONSIBLE FOR FAILURE TO DETECT ERRORS, OMISSIONS, OR INACCURACIES. FAILURE TO DETECT ERRORS, OMISSIONS, AND INACCURACIES SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR THE PROPER AND COMPLETE INSTALLATION IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS.
2. THE ENGINEER SHALL MARK THE SHOP DRAWINGS IN ONE OF THE WAYS OUTLINED BELOW. SEE EACH DESCRIPTION FOR INTERPRETATION OF ENGINEERS MARKS AND CONTRACTOR RESPONSIBILITIES ASSOCIATED WITH EACH.
a. NO EXCEPTIONS: THE SUBMITTAL COMPLIES WITH THE REQUIREMENTS OF THE SPECIFICATIONS.
b. MAKE CORRECTIONS NOTED: THE SUBMITTAL GENERALLY COMPLIES WITH THE REQUIREMENTS OF THE SPECIFICATIONS BUT SOME NON-CRITICAL ITEMS WHICH NEED TO BE CORRECTED/COORDINATED ARE NOTED. THE CORRECTIONS SHALL BE CHANGED ON THE SHOP DRAWINGS SUBMITTED FOR INCLUSION IN THE OPERATIONS AND MAINTENANCE MANUAL. RE-SUBMITTAL IS NOT REQUIRED UNLESS NOTED OTHERWISE.
c. REVISE AND RESUBMIT: THE SUBMITTAL GENERALLY COMPLIES WITH THE REQUIREMENTS OF THE SPECIFICATIONS BUT SOME CRITICAL ITEMS WHICH NEED TO BE CORRECTED/COORDINATED ARE NOTED. THE SUBMITTAL MUST BE REVISED AND RESUBMITTED WITH ALL COMMENTS ADDRESSED.
d. REJECTED: THE SUBMITTAL DOES NOT COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATIONS. THE SUBMITTAL MUST BE REVISED AND RESUBMITTED.
3. REVIEW OF SUBMITTAL ITEMS SHALL NOT ELIMINATE THE ENGINEERS RIGHT TO REJECT THOSE ITEMS IF DEFECTS ARE DISCOVERED PRIOR TO FINAL ACCEPTANCE OF THE COMPLETED WORK.
L. PROJECT CLOSE-OUT
1. THE INSTALLING CONTRACTOR SHALL CONTACT THE ENGINEERS' OFFICE UPON COMPLETION OF THE INSTALLATION TO REQUEST FINAL INSPECTION. AT THAT TIME THE FOLLOWING DOCUMENTS SHALL BE ASSEMBLED AND PROVIDED FOR REVIEW AT THE JOB SITE:
a. COPIES OF ALL BRANCH PANEL SCHEDULES.
b. "AS-BUILT" PRINT SET.
M. CLEANING AND PAINTING
1. TOUCH UP AND REPAIR ANY DAMAGED FACTORY FINISHES ON EQUIPMENT AND MATERIALS FURNISHED. OTHER PAINTING WILL BE DONE UNDER THE PAINTING DIVISION OF THE SPECIFICATIONS.
2. REMOVE ANY RUST SPOTS AND PRIME WITH RUST INHIBITIVE PAINT ANY METAL SURFACES OF ELECTRICAL DEVICES NOT PROVIDED WITH RUST INHIBITIVE COATINGS. THEN APPLY ONE COAT OF PAINT IN COLOR AS DIRECTED BY ARCHITECT.
N. NAMEPLATES AND LABELS
1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A SYSTEM OF NAMEPLATES DESIGNED TO IDENTIFY EACH PIECE OF EQUIPMENT, CONTROL UNIT THEREON, AND MAJOR DISTRIBUTION POINTS. NAMEPLATES SHALL BE ENGRAVED MICARTA AND COLOR CODED TO IDENTIFY VOLTAGE SYSTEMS AS FOLLOWS:
a. 208/120V (NORMAL) - WHITE BACKGROUND, BLACK LETTERS.
2. CONTRACTOR SHALL FURNISH THE NECESSARY TRAINED PERSONNEL TO PERFORM THE DEMONSTRATIONS AND INSTRUCTION, AND SHALL ARRANGE TO HAVE THE MANUFACTURER'S REPRESENTATIVES PRESENT TO ASSIST WITH THE DEMONSTRATIONS.
a. SWITCHBOARD, DISTRIBUTION PANELBOARD, BRANCH CIRCUIT PANELBOARD, AND MOTOR CONTROL CENTER NAMEPLATES SHALL IDENTIFY PANEL DESIGNATION, VOLTAGE, AND DESIGNATION OF UPSTREAM SOURCE:
3. CONTRACTOR SHALL COORDINATE DATES AND TIMES FOR PERFORMING ALL DEMONSTRATIONS WITH THE OWNER.

1.2 SELECTIVE DEMOLITION FOR ELECTRICAL
A. PREPARATION
1. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS TO BE REMOVED.
2. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
B. DEMOLITION AND EXTENSION OF EXISTING ELECTRICAL WORK
1. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
2. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
3. REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.
4. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS THAT ARE NOT REMOVED.
5. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.
6. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.
7. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
8. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS THAT REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

1.3 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
A. CONDUCTOR AND CABLE GENERAL REQUIREMENTS
1. PROVIDE COPPER CONDUCTORS. SUBSTITUTION OF ALUMINUM CONDUCTORS FOR COPPER IS NOT PERMITTED.
B. MINIMUM CONDUCTOR SIZE:
1. BRANCH CIRCUITS: 12 AWG.
a. 20 A, 120 V CIRCUITS LONGER THAN 75 FEET (23 M): 10 AWG, FOR VOLTAGE DROP.
b. 20 A, 20 V CIRCUITS LONGER THAN 150 FEET (46 M): 8 AWG, FOR VOLTAGE DROP.
c. CONTROL CIRCUITS: 14 AWG.
2. CONDUCTOR COLOR CODING
a. COLOR CODING METHOD: INTEGRALLY COLORED INSULATION.
b. 208Y/120 V, 3 PHASE, 4 WIRE SYSTEM: PHASE A - BLACK, PHASE B - RED, PHASE C - BLUE, NEUTRAL/GROUNDED - WHITE.
c. EQUIPMENT GROUND, ALL SYSTEMS: GREEN.
3. SINGLE CONDUCTOR BUILDING WIRE
a. SIZE 10 AWG AND SMALLER: SOLID.
b. SIZE 8 AWG AND LARGER: STRANDED.
c. INSULATION VOLTAGE RATING: 1000 V.
d. INSULATION: COPPER BUILDING WIRE: TYPE THHN/THWN OR THHN/THWN-2, EXCEPT AS INDICATED BELOW.
4. VARIABLE-FREQUENCY DRIVE CABLE
a. DESCRIPTION: FLEXIBLE MOTOR SUPPLY CABLE LISTED AND LABELED AS COMPLYING WITH UL 2277 IN ACCORDANCE WITH NFPA 79; SPECIFICALLY DESIGNED FOR USE WITH VARIABLE FREQUENCY DRIVES AND ASSOCIATED NONLINEAR POWER DISTORTIONS.
b. GROUNDING: FULL-SIZE INTEGRAL EQUIPMENT GROUNDING CONDUCTOR OR SYMMETRICAL ARRANGEMENT OF MULTIPLE CONDUCTORS OF EQUIVALENT SIZE.
c. PROVIDE 2 #14 AWG VFD DISABLE CONTACT WIRING WHERE A DISCONNECT SWITCH IS INSTALLED ON THE LOAD SIDE OF A VFD.
d. JACKET: PVC, CHLORINATED POLYETHYLENE (CPE), OR CROSS LINKED POLYETHYLENE CABLE (XLPE).
5. INSTALLATION
a. WHEN CIRCUIT DESTINATION IS INDICATED WITHOUT SPECIFIC ROUTING, DETERMINE EXACT ROUTING REQUIRED.
b. ARRANGE CIRCUITING TO MINIMIZE SPLICES.
c. CIRCUITING ADJUSTMENTS: UNLESS OTHERWISE INDICATED, WHEN BRANCH CIRCUITS ARE INDICATED AS SEPARATE, COMBINING THEM TOGETHER IN A SINGLE RACEWAY IS NOT PERMITTED.
d. PROVIDE NO MORE THAN EIGHT CURRENT-CARRYING CONDUCTORS IN A SINGLE RACEWAY. DEDICATED NEUTRAL CONDUCTORS ARE CONSIDERED CURRENT-CARRYING CONDUCTORS.
e. INCREASE SIZE OF CONDUCTORS AS REQUIRED TO ACCOUNT FOR AMPACITY DERATING.
f. COMMON NEUTRALS: UNLESS OTHERWISE INDICATED, SHARING OF NEUTRAL/GROUNDED CONDUCTORS IN THE SAME RACEWAY IS NOT PERMITTED. PROVIDE DEDICATED NEUTRAL/GROUNDED CONDUCTOR FOR EACH INDIVIDUAL BRANCH CIRCUIT.
g. VARIABLE-FREQUENCY DRIVE CABLE: TERMINATE SHIELDING AT BOTH VARIABLE-FREQUENCY MOTOR CONTROLLER AND ASSOCIATED MOTOR USING GLANDS OR TERMINATION KITS RECOMMENDED BY MANUFACTURER.

1.4 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
A. GROUNDING AND BONDING REQUIREMENTS
1. UNLESS SPECIFICALLY INDICATED TO BE EXCLUDED, PROVIDE ALL REQUIRED COMPONENTS, CONDUCTORS, CONNECTORS, CONDUIT, BOXES, FITTINGS, SUPPORTS, ACCESSORIES, ETC. AS NECESSARY FOR A COMPLETE GROUNDING AND BONDING SYSTEM.
2. WHERE CONDUCTOR SIZE IS NOT INDICATED, SIZE TO COMPLY WITH NFPA 70 BUT NOT LESS THAN APPLICABLE MINIMUM SIZE REQUIREMENTS SPECIFIED.
3. BONDING AND EQUIPMENT GROUNDING.
a. PROVIDE BONDING FOR EQUIPMENT GROUNDING CONDUCTORS, EQUIPMENT GROUND BUSSES, METALLIC EQUIPMENT ENCLOSURES, METALLIC RACEWAYS AND BOXES, DEVICE GROUNDING TERMINALS, AND OTHER NORMALLY NON-CURRENT-CARRYING CONDUCTIVE MATERIALS ENCLOSING ELECTRICAL CONDUCTORS/EQUIPMENT OR LIKELY TO BECOME ENERGIZED AS INDICATED AND IN ACCORDANCE WITH NFPA 70.
b. PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN EACH FEEDER AND BRANCH CIRCUIT RACEWAY. DO NOT USE RACEWAYS AS SOLE EQUIPMENT GROUNDING CONDUCTOR.
c. WHERE CIRCUIT CONDUCTOR SIZES ARE INCREASED FOR VOLTAGE DROP, INCREASE SIZE OF EQUIPMENT GROUNDING CONDUCTOR PROPORTIONALLY IN ACCORDANCE WITH NFPA 70.
d. TERMINATE GROUNDING CIRCUIT EQUIPMENT GROUNDING CONDUCTORS TO SOLIDLY BONDED EQUIPMENT GROUND BUS ONLY. DO NOT TERMINATE ON NEUTRAL (GROUNDED) OR ISOLATED/INSULATED GROUND BUS.
e. PROVIDE BONDING JUMPER ACROSS EXPANSION OR EXPANSION/DEFLECTION FITTINGS PROVIDED TO ACCOMMODATE CONDUIT MOVEMENT.
B. INSTALLATION
1. MAKE GROUNDING AND BONDING CONNECTIONS USING SPECIFIED CONNECTORS.
a. REMOVE APPROPRIATE AMOUNT OF CONDUCTOR INSULATION FOR MAKING CONNECTIONS WITHOUT CUTTING, NICKING OR DAMAGING CONDUCTORS. DO NOT REMOVE CONDUCTOR STRANDS TO FACILITATE INSERTION INTO CONNECTOR.
b. REMOVE NONCONDUCTIVE PAINT, ENAMEL, OR SIMILAR COATING AT THREADS, CONTACT POINTS, AND CONTACT SURFACES.

1.5 RACEWAYS
A. FURNISH AND INSTALL CONDUIT, SUPPORTS, BOXES, WIRE, AND NECESSARY FITTINGS AND ACCESSORIES AS REQUIRED TO MAKE A COMPLETE INSTALLATION OF THE WIRING SYSTEM INDICATED ON THE DRAWINGS.
B. ALL WIRING SHALL BE INSTALLED IN CONDUIT, FLEXIBLE METALLIC CONDUIT, OR LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT AS INDICATED ON PLANS.
1. CONDUIT: RIGID STEEL OR INDOORS SHALL BE ELECTRICAL METALLIC TUBING GALVANIZED INSIDE AND OUT WITH A CLEAR TOP COAT TO RESIST ABRASION AND AN INTERIOR ORGANIC COATING TO PROVIDE LUBRICATION.
2. CONDUITS SHALL BE OF THE SIZE INDICATED OR REQUIRED BY THE NATIONAL ELECTRIC CODE FOR THE NUMBER AND SIZE CONDUCTORS INVOLVED. JOINTS SHALL BE CUT SQUARE, REAMED SMOOTH AND PULLED UP TIGHT. CONDUITS SHALL NOT BE SMALLER THAN 3/4", UNLESS NOTED OTHERWISE.
3. EMT CONDUIT FITTINGS SHALL BE SET SCREW TYPE GALVANIZED STEEL, CONCRETE TIGHT. DIE CAST TYPE INDENTOR FITTINGS ARE NOT ACCEPTABLE.
C. RACEWAYS IN GENERAL SHALL BE INSTALLED CONCEALED ABOVE FINISHED CEILINGS, IN WALLS, IN ACCESSIBLE FLOOR PLENUMS, AND EXPOSED ELSEWHERE AS SHOWN ON PLANS.
1. PVC CONDUIT AND LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT SHALL NOT BE USED IN ENVIRONMENTAL AIR PLENUMS.
2. WHERE CONDUITS ARE ROUTED THROUGH AREAS OF DIFFERING TEMPERATURES OR AIR PRESSURES (AIR HANDLERS, EXTERIOR WALLS, ETC.), THE PENETRATION AROUND THE CONDUIT SHALL BE ADEQUATELY SEALED. THE INTERIOR OF THESE CONDUITS SHALL BE SEALED AT THE FIRST BOX OR FITTING ADJACENT TO THE PENETRATION TO PREVENT AIR MIGRATION BETWEEN THE SPACES.
D. ALL EXPOSED CONDUITS SHALL BE RUN IN A NEAT MANNER, PARALLEL WITH OR AT RIGHT ANGLES TO BUILDING LINES. EXPOSED CONDUITS SHALL BE ADEQUATELY SUPPORTED WITH BEAM CLAMPS, ONE HOLE STRAPS, ETC.
1. WHERE ENCOUNTERED, STEEL FIREPROOFING SHALL BE REPAIRED BY THE ELECTRICAL CONTRACTOR WHERE SUPPORTS ARE INSTALLED ON EXISTING STEEL STRUCTURES.
E. WHERE NEW WIRE IS TO BE PULLED INTO EXISTING RACEWAYS, THE OLD WIRE SHALL BE REMOVED AND THE CONDUITS CLEANED OF ALL OBSTRUCTIONS PRIOR TO PULLING IN THE NEW WIRE. LOCATIONS OF EXISTING CONDUIT RUNS SHOWN ON THE PLANS ARE APPROXIMATE. THE EXACT LOCATION SHALL BE ASCERTAINED BY THE ELECTRICAL CONTRACTOR.
F. ALL ELECTRICAL SYSTEMS, RACEWAYS, JUNCTION BOXES, CABLES, AND ALL FLEXIBLE WIRING SYSTEMS SHALL BE SUPPORTED INDEPENDENT OF THE SUSPENDED TEE-BAR CEILING SYSTEM AND INDEPENDENT OF HANGER WIRES USED TO SUPPORT THE CEILING SYSTEM, IN FULL COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.
G. RACEWAYS THAT ARE INSTALLED EXPOSED TO DIRECT SUNLIGHT ON ROOFTOPS SHALL HAVE 60°F ADDED TO THE OUTDOOR AMBIENT TEMPERATURE USED TO CALCULATE THE CONDUCTOR DERATING FACTOR IN COMPLIANCE WITH NEC ARTICLE 310.15(B).

1.6 CUTTING, PATCHING, AND FIRESTOPPING
A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING ALL HOLES REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. HOLES SHALL BE CUT IN A NEAT MANNER SATISFACTORY TO THE ENGINEER.
B. THE LOCATION OF ALL CONDUIT AND BOXES SHALL BE PREDETERMINED BY THIS CONTRACTOR WHO SHALL BE RESPONSIBLE FOR THE INSTALLATION OF SAME IN WALLS AND CEILINGS.
C. ALL HOLES OR DAMAGE CAUSED BY THE REMOVAL OR EXISTING WORK OR THE INSTALLATION OF NEW WORK SHALL BE PROPERLY PATCHED BY THIS CONTRACTOR. HOLES SHALL BE NEATLY PATCHED WITH SUITABLE MATERIAL TO MATCH EXISTING SURFACES. HOLES THROUGH FLOORS OR FIRE WALLS SHALL BE SEALED WITH THE APPROPRIATE INTUMESCENT CAULK, PUTTY, STRIP, BLOCK, SPONGE, OR SHEET TYPE FIRE BARRIER PRODUCT; HILTI "FS-ONE", NELSON "FLAMESEAL"; SPECIFIED TECHNOLOGIES GROUP "SPEC SEAL"; INTERNATIONAL PROTECTIVE COATINGS "FLAMESAFE"; CSD SEALING SYSTEMS, OR APPROVED EQUAL AS MANUFACTURED BY 3M.
D. FIRESTOPPING MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH ALL U.L. SYSTEM REQUIREMENTS FOR THE TYPE OF PENETRATION AND FIRESTOPPING SYSTEM USED. FIRESTOPPING MATERIALS SHALL BE HILTI INC. OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE LISTING FOR THE FURNISHED MANUFACTURER AND PENETRATING COMPONENT.
E. "F" RATING - 1 OR 2 HOURS
1. METAL PIPE THROUGH GYPSUM BOARD - HILTI #W-L-1054
2. METAL PIPE THROUGH WOOD FLOOR/CEILING ASSEMBLY - HILTI #F-C-1059
3. PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY - HILTI #W-L-2251
4. PLASTIC PIPE THROUGH WOOD FLOOR/CEILING ASSEMBLY - HILTI #F-C-2127
5. CABLE THROUGH GYPSUM BOARD - HILTI #W-L-3065
6. CABLE/CABLE BUNDLE THROUGH WOOD FLOOR/CEILING ASSEMBLY - HILTI #F-C-3012
7. CABLE TRAY THROUGH GYPSUM BOARD - HILTI #W-L-4011, #W-L-4019
8. CABLE TRAY THROUGH GYPSUM WALL ASSEMBLY - HILTI #W-L-4011
F. "F" RATING - 3 HOURS
1. METAL PIPE THROUGH MASONRY/CONCRETE FLOOR OR WALL - HILTI #C-AJ-1155, #C-AJ-1226
2. METAL PIPE THROUGH POURED CONCRETE FLOOR SLABS - HILTI #F-A-1017
3. PLASTIC PIPE THROUGH MASONRY/CONCRETE FLOOR OR WALL - HILTI #C-AJ-2109
4. CABLE THROUGH MASONRY/CONCRETE FLOOR OR WALLS - HILTI #C-AJ-3095
5. CABLE THROUGH POURED CONCRETE FLOOR SLABS - HILTI #F-A-3007
6. CABLE TRAY THROUGH MASONRY/CONCRETE FLOOR OR WALL - HILTI #C-AJ-4035
7. MULTIPLE CABLE TRAYS THROUGH MASONRY/CONCRETE FLOOR OR WALL - HILTI #C-AJ- 4017

1.7 OUTLET BOXES
A. CONCEALED OUTLET BOXES FOR LIGHTING FIXTURES IN SUSPENDED CEILING AREAS SHALL BE 4" OCTAGON BY 1-1/2" DEEP. WHERE NUMBER OF WIRES REQUIRES A LARGER BOX, USE 4-11/16" OR 4" SQUARE BY 2-1/8" DEEP. BOXES SHALL BE PROVIDED WITH ROUND OPENING PLASTER COVERS TO FINISH FLUSH WITH CEILING. PROVIDE 3/8" FIXTURE STUDS.
B. OUTLET BOXES LOCATED ABOVE ACCESSIBLE CEILINGS FOR LIGHTING FIXTURES SHALL BE PROVIDED WITH BLANK COVERS. WIRING SHALL BE EXTENDED TO FIXTURES IN FLEXIBLE METAL CONDUIT WITH GROUND WIRE.
C. OUTLET BOXES FOR WIRING DEVICES SHALL BE 4" SQUARE BY 1-1/2" DEEP. WHERE NUMBER OF WIRES REQUIRES A LARGER BOX, USE 4" SQUARE BY 2-1/8" DEEP. PROVIDE ONE OR TWO GANG ADAPTERS AS REQUIRED, TO FINISH FLUSH WITH WALL. WHERE THREE OR MORE DEVICES ARE SET AT ONE POINT, USE GANG TYPE BOXES.
D. JUNCTION BOXES SHALL BE BONDED TO THE EQUIPMENT GROUND CONDUCTORS CONTAINED WITHIN, WHENEVER SAID CONDUCTORS ARE "SPLICED" OR "TERMINATED" WITHIN THE BOX, IN FULL COMPLIANCE WITH NEC ARTICLE 250.148.
E. ALL BOXES SHALL BE RIGIDLY SUPPORTED FROM THE BUILDING STRUCTURE INDEPENDENT OF THE CONDUIT SYSTEM.
F. ELECTRICAL CONTRACTOR SHALL PROVIDE PRE-PAINTED RED, SPRAY PAINTED RED, OR RED COLORED STICK-ON LABELS FOR ALL FIRE ALARM SYSTEM JUNCTION BOXES AND COVERS.

1.8 WIRING DEVICES AND COVERPLATES
A. WIRING DEVICES SHALL BE FURNISHED AS DESCRIBED IN THE SYMBOL SCHEDULE AND INSTALLED AT LOCATIONS SHOWN ON THE DRAWINGS. WIRING DEVICES TO BE COOPER "INDUSTRIAL SPEC GRADE", HUBBELL "HBL" SERIES, LEVITON "LEV-SPEC", OR PASS & SEYMOUR "INDUSTRIAL SPEC GRADE".
1. DEVICES SHALL HAVE ONE-PIECE BRASS MOUNTING STRAP.
B. COVERPLATES FOR FLUSH-MOUNTED AND SURFACE MOUNTED DEVICES IN WIREMOLD BOXES SHALL BE 0.04" THICK BRUSHED FINISH, STAINLESS STEEL. WHERE TWO OR MORE DEVICES ARE SET AT ONE POINT, THEY SHALL BE COVERED WITH A COMMON PLATE.
C. COVERPLATES FOR DEVICES SHALL BE SMOOTH NYLON NON-BREAKABLE TYPE. WHERE TWO OR MORE DEVICES ARE SET AT ONE POINT, THEY SHALL BE COVERED WITH A COMMON PLATE.
D. WHERE DECORATIVE SCREW-LESS COVERPLATE SWITCHES OR DIMMERS ARE LOCATED ADJACENT TO STANDARD TOGGLE SWITCHES, THEY SHALL BE INSTALLED IN SEPARATE BOXES.
E. COVERPLATES FOR SURFACE MOUNTED DEVICES IN CAST FS BOXES SHALL BE HEAVY-GAUGE GALVANIZED STAMPED SHEET STEEL, CROUSE HINDS TYPE "DS" OR APPLETON TYPE "FSK".
F. INSTALLATION
1. COORDINATE LOCATIONS OF OUTLET BOXES AS REQUIRED FOR INSTALLATION OF WIRING DEVICES PRIOR TO ROUGH-IN.
2. MOUNTING HEIGHTS: UNLESS OTHERWISE INDICATED, AS FOLLOWS:
3. WALL SWITCHES: 48 INCHES (1200 MM) ABOVE FINISHED FLOOR.
4.
5. ORIENT OUTLET BOXES FOR VERTICAL INSTALLATION OF WIRING DEVICES UNLESS OTHERWISE INDICATED.
6. WHERE MULTIPLE RECEPTACLES, WALL SWITCHES, OR WALL DIMMERS ARE INSTALLED AT THE SAME LOCATION AND AT THE SAME MOUNTING HEI



1 E1-1 **ELECTRICAL DEMOLITION PLAN - LEVEL 2**
1/8" = 1'-0"

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ISSUE / REVISION		DATE
1	SD SET	07/10/2026
2	DD SET	08/14/2026
3	OWNER REVIEW SET	09/10/2026
4	CONSTRUCTION DOCUMENTS	10/09/2026
5	BID AND PERMIT	10/16/2026

PROJECT NO. **26028.000**

ELECTRICAL DEMOLITION PLAN - LEVEL 2

E1-1

NO.

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PLAN NOTES:

1. CENTER C1 FIXTURE IN SOFFIT, CIRCUIT TO EXISTING LOCAL LIGHTING CIRCUIT AND CONTROLS.



1 / E1-2 **LIGHTING PLAN - LEVEL 2**
1/8" = 1'-0"

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LIGHTING PLAN - LEVEL 2

E1-2

NO.

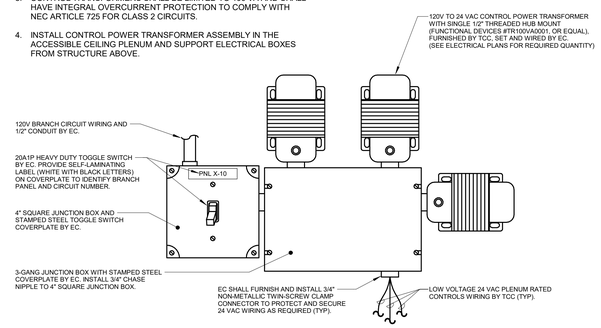
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PLAN NOTES:

1. SYSTEMS FURNITURE POWER IN-FEED CONNECTION IN JUNCTION BOX LOCATED ABOVE CEILING. SYSTEM FURNITURE CONNECTION SHALL UTILIZE CIRCUITS ALA-1/3,5/7. COORDINATE EXACT LOCATION WITH SYSTEM FURNITURE PROVIDER.
2. VAV TERMINAL BOX CONTROL POWER JUNCTION BOX. REFER TO DETAIL ON THIS SHEET FOR REQUIREMENTS.
3. RADIANT CEILING PANEL CONTROL POWER JUNCTION BOX. REFER TO DETAIL ON THIS SHEET FOR REQUIREMENTS.

NOTES:

1. EC SHALL COORDINATE LOCATION OF TEMPERATURE CONTROL POWER DISTRIBUTION WITH TCC. LOCATIONS SHALL BE DOCUMENTED ON RED-LINED AS-BUILT ELECTRICAL DRAWINGS.
2. EC SHALL INSTALL A COLORED STICK-ON DOT ON THE UNDERSIDE OF THE CEILING BELOW THE TRANSFORMERS TO IDENTIFY THE TOGGLE SWITCH LOCATION IN THE FIELD.
3. CONTROL TRANSFORMERS SHALL BE LIMITED TO 100 VA AND SHALL HAVE INTEGRAL OVERCURRENT PROTECTION TO COMPLY WITH NEC ARTICLE 725 FOR CLASS 2 CIRCUITS.
4. INSTALL CONTROL POWER TRANSFORMER ASSEMBLY IN THE ACCESSIBLE CEILING PLENUM AND SUPPORT ELECTRICAL BOXES FROM STRUCTURE ABOVE.



3 / E1-3 **TEMPERATURE CONTROL POWER DETAIL**
NTS



1 / E1-3 **POWER AND SYSTEMS PLAN - LEVEL 2**
1/8" = 1'-0"

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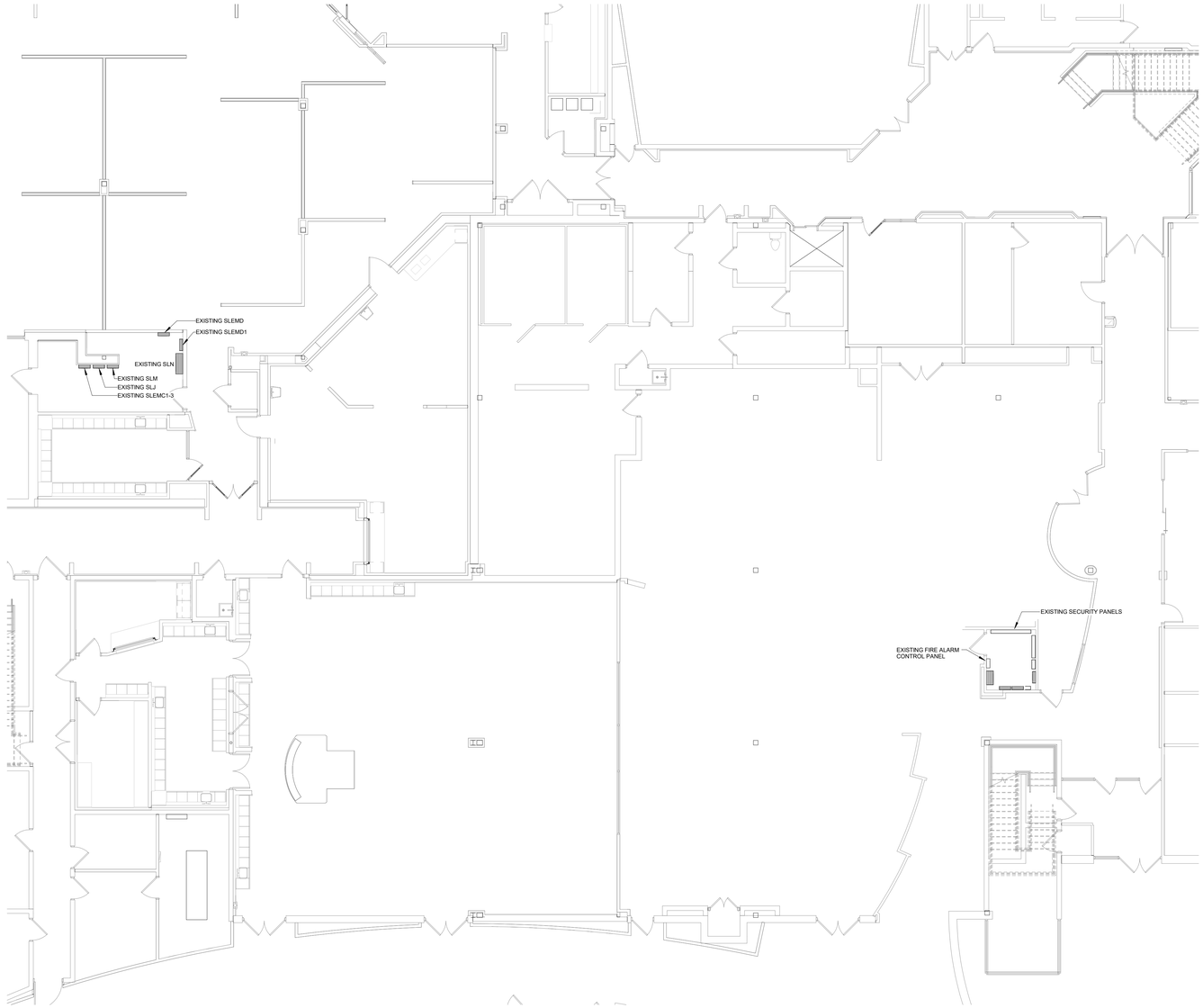
POWER AND SYSTEMS PLAN - LEVEL 2

E1-3

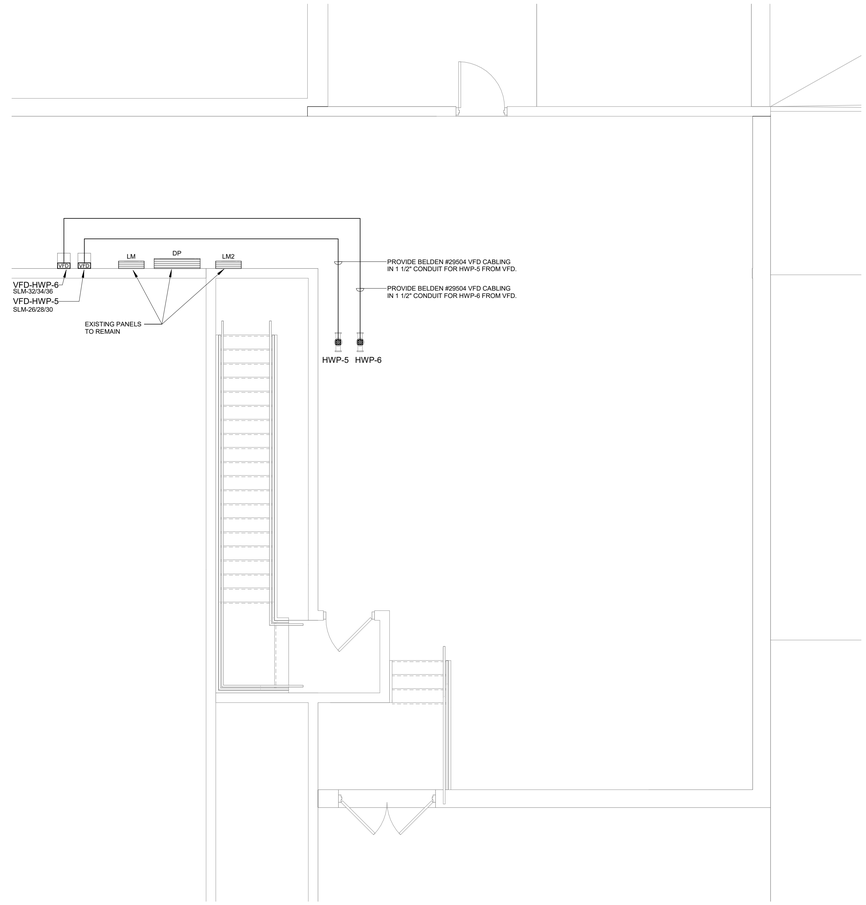
NO.

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MECHANICAL EQUIPMENT SCHEDULE (FURNISHED AND SET BY MECHANICAL TRADES, WIRED BY ELECTRICAL TRADES)						
MARK	DESCRIPTION	VOLTAGE	PHASE	LOAD (A)	MOCP	REMARKS
HWP-5	HEATING WATER PUMP 5	208	3	17.5	35	MANUFACTURER FURNISHED VFD WITH INTEGRAL DISCONNECT
HWP-6	HEATING WATER PUMP 6	208	3	17.5	35	MANUFACTURER FURNISHED VFD WITH INTEGRAL DISCONNECT



2 E1-4 **ELECTRICAL EQUIPMENT LOCATION PLAN - LEVEL 1**
1/8" = 1'-0"



1 E1-4 **MECHANICAL ROOM PLAN - LEVEL 2 ELECTRICAL PLAN**
1/4" = 1'-0"

FILE: Autodesk Docs://02 - NEOMED R26/351-25-02 MEP R26.rvt
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STATE OF OHIO
ROGER T MCMANUS 82327
REGISTERED PROFESSIONAL ENGINEER

ISSUE / REVISION		DATE
1	SD SET	07/10/2026
2	DD SET	08/14/2026
3	OWNER REVIEW SET	09/10/2026
4	CONSTRUCTION DOCUMENTS	10/09/2026
5	BID AND PERMIT	10/16/2026

PROJECT NO. **26028.000**

ELECTRICAL ROOM PLAN - LEVEL 2

E1-4

NO.

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