

ADDENDUM 01

USM Brooks Center eSports Improvements

Date: October 11, 2024

To: Prospective Bidders

*From: University of Maine System
by and through
University of Southern Maine
PO Box 9300
Portland, ME 04104*

This Addendum forms a part of the Contract Documents and modifies the original Bid Documents and Specifications dated September 17, 2024. Portions of the bid and contract documents not altered by this Addendum remain in full force.

Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum may consist of the following:

- Questions with Response*
- Specification Changes*
- Drawing Changes*
- Non-Mandatory Pre-Bid Attendance List*
- Photographs*

QUESTIONS with RESPONSE:

RFI response list is attached

SPECIFICATION CHANGES

Section 000000 – Removed “-00” suffix from project number.

DRAWING CHANGES

GL101 – Add dimensions showing existing egress door remoteness per SFMO request

A121 – Relocate exit signs to align with electrical drawings

EL101 – Remove cove light at soffit between upper and lower level lounges

EP101 – CU-1 updated fuse size, Added EDH-1 disconnect, BC-1 disconnect removed

EP601 – Panel schedule updated, equipment added to panel and loads balanced

M-601 – Added electric duct heater schedule. Adjusted VRF outdoor and indoor schedules to reflect a heat pump VRF system instead of a heat recovery VRF system.

M-651 – Added electric duct heater sequence of operations. Adjusted VRF system sequence to reflect heat pump system instead of heat recovery. Adjusted VRF piping diagram to reflect new equipment selections and piping layout.

MH101 – Added electric duct heater in outside air duct serving FCU-1.

MP101 – Adjusted pipe routing to show a heat pump VRF system instead of a heat recovery VRF system.

Removed branch circuit controller because heat pump system does not use a branch circuit controller.

PL101 – Removed condensate drainage line serving branch circuit controller from mechanical room.

NON-MANDATORY PRE-BID ATTENDANCE LIST:

Non-Mandatory Pre-Bid Attendance List is attached.

OTHER:

2024 Minimum Wage Rates are attached

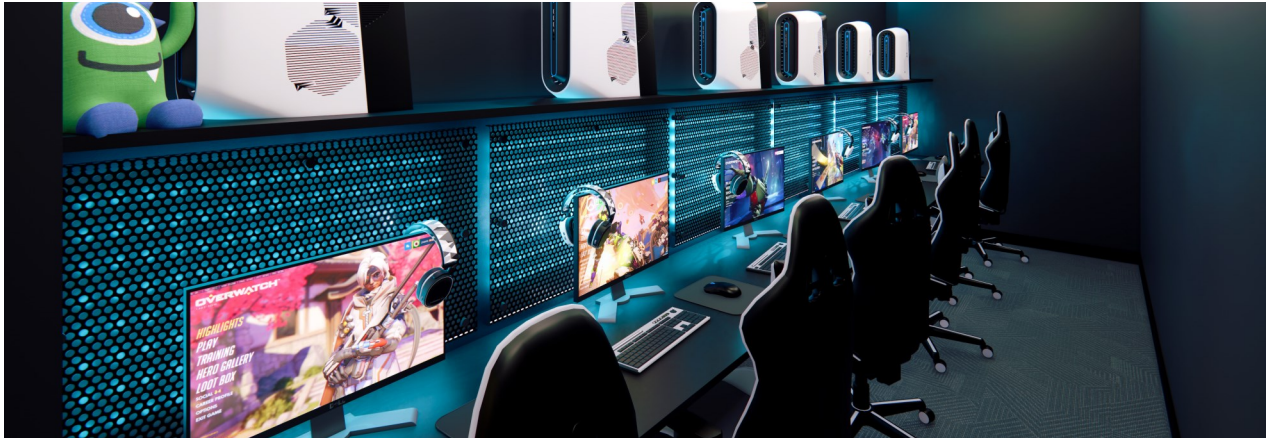
Photos of existing conditions per request:

(3) Ground Floor storage space (location of telecom sleeves);

(11) Basement Mechanical/Electrical Room (location of anticipated feeder run)

END OF ADDENDUM 01

PROJECT: USM eSports Improvements						
TYPE: Bidder RFIs and Responses						
DATE: 10/11/2024 Addendum 1						
SMRT Proj. # 23101						
ID #	Spec/Dwg Reference	Discipline	Question	Response	From	Issued In
1		Owner	Improvements on Construction Summary Reports for the University of Southern Maine Brooks Center eSports Improvements does not call for sprinkler in the description. My understanding is that previously sprinkler has been called for in this project—is there now a limited scope, or just a limited description.	See documents for sprinkler scope	Matt McCammon (SMRT)	Addendum 01
2		Arch	Alternate says Private PC Room 103? Where is this room?	Intended to read "PC ROOM 102"	Matt McCammon (SMRT)	Addendum 01
3		Arch	Wall that louvers are being installed in is it a bearing wall?	Appears this particular wall was added post 1968, when the original building was built. Based on existing drawings and current photos, the 'stone' shown within the existing mechanical room was originally the exterior finish. SMRT has confirmed with USM that this is not a bearing wall and is stud framing with unfinished drywall at the interior and a stucco finish on the exterior.	Matt McCammon (SMRT)	Addendum 01
4		Fire Protection	As I'm reading the Demolition plans, half of the existing sprinkler system (PC, and Gaming Lounge) is getting demoed out and rebuilt (am I incorrect?); the other half is existing and remaining and just getting new heads (but possibly also needing to extend above and below coverage around the new ductworks). Do I have that correct?	In PC 102 and Gaming Lounge 101, we anticipate the existing system will require an extensive amount of re-work given the amount of new HVAC going into the space. In the Mechanical 110, we might need an additional head or 2 to accommodate new HVAC and obstructions to the sprinkler system in can might create. Yes, sprinkler heads are required above and below ceilings in Gorham.	Kerry Dineen (SMRT)	Addendum 01
5			Are you able to confirm the Architect's Project No. as the cover page of the bid specs outlines 23101-00 and the remainder of the specs details just 23101.	"-00" is an internal tracking number for accounting purposes. 23101 is the overall project. Update cover sheet issued for clarity	Matt McCammon (SMRT)	Addendum 01
6			<ol style="list-style-type: none"> 1. What is the proposed budget for this project? 2. What is the anticipated project schedule? Is there a substantial and final completion date? 3. When is the anticipated award date for this project? 4. What testing does the contractor own? 5. Is builders risk required? 6. Specs show the 2021 Fair Minimum Wage Rates. Please provide updated wage rates for 2024. 7. Will any work be done off hours? 8. Are we able to schedule a site walkthrough for subcontractors? 9. Are there any photos on the lower level where the 400a feeder is to be run and the 4" telecom sleeves? 10. What is the deck height for this project? 11. The specs call for Coordination drawings or BIM model for sprinkler, HVAC, electrical and plumbing. Is this going to be required? Can an allowance be provided? 	<ol style="list-style-type: none"> 1. Range \$500k to \$1M 2. Refer to Section 01 100-2 3. TBD by Bid Results, but no sooner than 5 business days. 4. See specifications 5. No 6. See Attached 7. Generally not, but exceptions may arise for coordinated outages or prolonged interruptions. 8. No. Refer to Section 00 11 13-1 9. See attached, provided by USM. 10. Per existing drawings provided by USM, Upper Level to Level above is roughly 12'-0" slab to slab with what appears to be 3" slab supported by 24" deep joists 11. Yes. No. 	Matt McCammon (SMRT), Tom Blanchard (USM)	Addendum 01



Issued for Bid/Construction Specification Manual

USM - Brooks Center eSports Improvements

Gorham, ME



Submitted by:
SMRT Architects and Engineers
September 17, 2024
Project # 23101
smrtinc.com

State of Maine Department of Labor - Bureau of Labor Standards
Augusta, Maine 04333-0045 - Telephone (207) 623-7906

Wage Determination - In accordance with 26 MRS §1301 et. seq., this is a determination by the Bureau of Labor Standards, of the fair minimum wage rate to be paid to laborers and workers employed on the below titled project.

2024 Fair Minimum Wage Rates -- Building 2 Cumberland County (other than 1 or 2 family homes)

Occupational Title	Minimum Wage	Minimum Benefit	Total
Brickmasons And Blockmasons	\$34.00	\$4.49	\$38.49
Bulldozer Operator	\$31.50	\$7.53	\$39.03
Carpenter	\$28.23	\$19.37	\$47.60
Cement Masons And Concrete Finisher	\$23.00	\$2.82	\$25.82
Commercial Divers	\$30.00	\$4.62	\$34.62
Construction And Maintenance Painters	\$31.11	\$4.74	\$35.85
Construction Laborer	\$24.33	\$2.66	\$26.99
Crane And Tower Operators	\$40.00	\$10.86	\$50.86
Crushing Grinding And Polishing Machine Operators	\$23.00	\$4.94	\$27.94
Drywall And Ceiling Tile Installers	\$28.23	\$19.37	\$47.60
Earth Drillers - Except Oil And Gas	\$22.31	\$6.19	\$28.50
Electrical Power - Line Installer And Repairers	\$38.93	\$8.91	\$47.84
Electricians	\$38.51	\$6.97	\$45.48
Elevator Installers And Repairers	\$68.38	\$45.29	\$113.67
Excavating And Loading Machine And Dragline Operators	\$26.00	\$7.18	\$33.18
Excavator Operator	\$31.38	\$5.91	\$37.29
Fence Erectors	\$26.75	\$4.05	\$30.80
Flaggers	\$20.00	\$0.38	\$20.38
Floor Layers - Except Carpet/Wood/Hard Tiles	\$27.25	\$6.59	\$33.84
Glaziers	\$33.78	\$16.35	\$50.13
Grader/Scraper Operator	\$23.00	\$1.99	\$24.99
Hazardous Materials Removal Workers	\$21.50	\$1.99	\$23.49
Heating And Air Conditioning And Refrigeration Mechanics And Installers	\$33.10	\$5.86	\$38.96
Heavy And Tractor - Trailer Truck Drivers	\$23.38	\$2.11	\$25.49
Highway Maintenance Workers	\$20.00	\$0.00	\$20.00
Industrial Machinery Mechanics	\$31.25	\$1.01	\$32.26
Industrial Truck And Tractor Operators	\$29.25	\$4.06	\$33.31
Insulation Worker - Mechanical	\$23.00	\$3.59	\$26.59
Ironworker - Ornamental	\$30.83	\$24.97	\$55.80
Light Truck Or Delivery Services Drivers	\$23.34	\$1.67	\$25.01
Millwrights	\$33.75	\$8.78	\$42.53
Mobile Heavy Equipment Mechanics - Except Engines	\$27.75	\$4.89	\$32.64
Operating Engineers And Other Equipment Operators	\$24.00	\$2.38	\$26.38
Paver Operator	\$27.03	\$6.49	\$33.52
Pile-Driver Operators	\$32.75	\$1.95	\$34.70
Pipelayers	\$28.50	\$4.89	\$33.39
Plumbers Pipe Fitters And Steamfitters	\$29.50	\$5.56	\$35.06
Pump Operators - Except Wellhead Pumps	\$31.49	\$32.08	\$63.57
Radio Cellular And Tower Equipment Installers	\$26.00	\$3.77	\$29.77
Reclaimer Operator	\$27.03	\$7.68	\$34.71
Reinforcing Iron And Rebar Workers	\$30.83	\$24.97	\$55.80
Riggers	\$29.25	\$7.79	\$37.04
Roofers	\$24.00	\$2.97	\$26.97
Screed/Wheelman	\$29.25	\$4.94	\$34.19
Sheet Metal Workers	\$25.00	\$4.71	\$29.71
Structural Iron And Steel Workers	\$30.83	\$24.97	\$55.80
Tapers	\$32.63	\$0.00	\$32.63
Telecommunications Equipment Installers And Repairers - Except Line Installers	\$28.23	\$19.37	\$47.60
Telecommunications Line Installers And Repairers	\$36.29	\$21.31	\$57.60
Tile And Marble Setters	\$27.75	\$6.73	\$34.48

Welders are classified as the trade to which welding is incidental (e.g. welding structural steel is Structural Iron and Steel Worker)


Apprentices – The minimum wage rates for registered apprentices are the rates recognized in the sponsorship agreement for registered apprentices working in the pertinent classification.

For any other specific trade on this project not listed above, contact the Bureau of Labor Standards for further clarification.

Title 26 §1310 requires that a clearly legible statement of all fair minimum wage and benefits rates to be paid the several classes of laborers, workers and mechanics employed on the construction on the public work must be kept posted in a prominent and easily accessible place at the site by each contractor and subcontractor subject to sections 1304 to 1313.

Appeal – Any person affected by the determination of these rates may appeal to the Commissioner of Labor by filing a written notice with the Commissioner stating the specific grounds of the objection within ten (10) days from the filing of these rates.

A true copy

Attest: 

**Scott R. Cotnoir
Wage & Hour Director
Bureau of Labor Standards**

**Expiration Date: 12-31-2024
Revision Date: 3-1-2024**



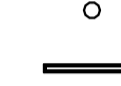






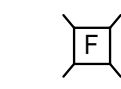


CEILING PRODUCT LEGEND

ACOUSTIC CEILING TILE
 ACT-1 ARMSTRONG, CALLA SQUARE TEGULAR, 24" X 24", 15'16"
 GRID SYSTEM, COLOR: BLACK (BK), GRID COLOR TO
 MATCH

CEILING PLAN NOTES:

1. REFER TO 0002 FOR GENERAL PROJECT NOTES.
2. REFER TO 0002 FOR LEGENDS, ABBREVIATIONS, AND TYPICAL MOUNTING HEIGHTS.
3. REFER TO A101 FOR ACCESSORY LEGEND.
4. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
5. WHERE CEILING HEIGHTS INDICATE A CHANGE IN HEIGHT OR TYPE, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A CEILING TRANSITION. REFER TO CEILING DETAILS FOR TYPICAL TRANSITIONS.
6. ALIGN CEILING ITEMS AS SHOWN WITH COMMON CENTERLINES TYPICALLY. CENTER ITEMS IN CEILING, OR IN AREAS UNLESS INDICATED OTHERWISE.
7. WHERE TEGULAR OR BEVELED TILE IS USED, PAINT ALL CUT EDGES TO MATCH.
8. CAULK JOINT BETWEEN CEILING GRID (WALL ANGLE) AND WALL WHERE GAPS ARE LARGER THAN 1/8" OR GREATER.
9. FIRE SPRINKLERS SHALL BE CENTERED IN CEILING TILE OR HALF TILE. FIRE SPRINKLERS SHALL BE LOCATED IN ALIGNMENT WITH OTHER CEILING ITEMS AND SHALL BE PLACED IN COORDINATION WITH LIGHT FIXTURE POSITIONS INDICATED, TYPICAL. FINAL LOCATIONS TO BE COORDINATED WITH DESIGN TEAM.
10. WHERE ARCHITECTURAL DRAWINGS DEPICT MECHANICAL OR ELECTRICAL ITEMS OR EQUIPMENT (LIGHTS, DIFFUSERS, ETC.) INSTALLATION OF SUCH ITEMS SHALL BE COORDINATED WITH EACH RESPECTIVE TRADE SUB-CONTRACTOR.
11. WHERE DRAWINGS DO NOT ADDRESS INSTALLATION METHODOLOGY, THE CONTRACTOR SHALL BE BOUND TO PERFORM IN STRICT COMPLIANCE WITH THE MANUFACTURER'S SPECIFICATIONS, AND STANDARD INDUSTRY STANDARDS.
12. CONTRACTORS TO COORDINATE ANY BLOCKING OR STRUCTURAL SUPPORT ABOVE THE CEILING FOR OWNER PROVIDED EQUIPMENT.

CEILING LEGEND:

-  24" x 24" CEILING TILE AND GRID
-  GWB CEILING
-  DOWNLIGHT
-  LINEAR LIGHT FIXTURE
-  4' x 48" LIGHT FIXTURE
-  SUPPLY DIFFUSER
-  RETURN DIFFUSER
-  EXHAUST DIFFUSER
-  OCCUPANCY SENSOR
-  EXIT SIGN
-  AUDIBLE FIRE ALARM
-  VISUAL FIRE ALARM



1 REFLECTED CEILING PLAN
 1/4" = 1'-0"

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**USM BROOKS CENTER
 eSPORTS IMPROVEMENTS**

GORHAM, MAINE

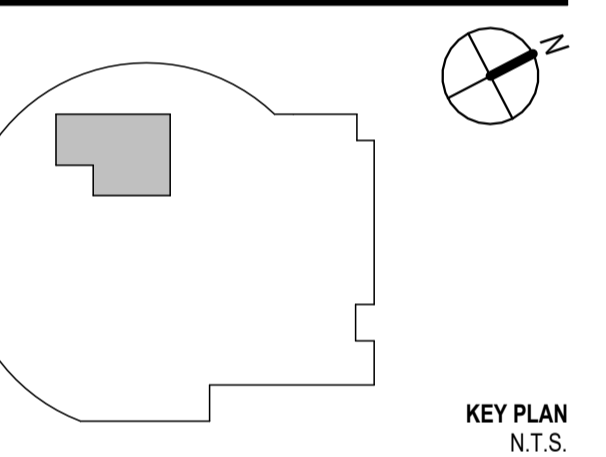


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#	Description	Date
1	ADDENDUM #1	10/11/24

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SEPTEMBER 17, 2024

SHEET TITLE:

REFLECTED CEILING PLAN

Original drawing is 36" x 48". DO NOT SCALE CONTENTS OF THIS DRAWING.
 DIMENSIONS SHOWN IN PINK COLOR.

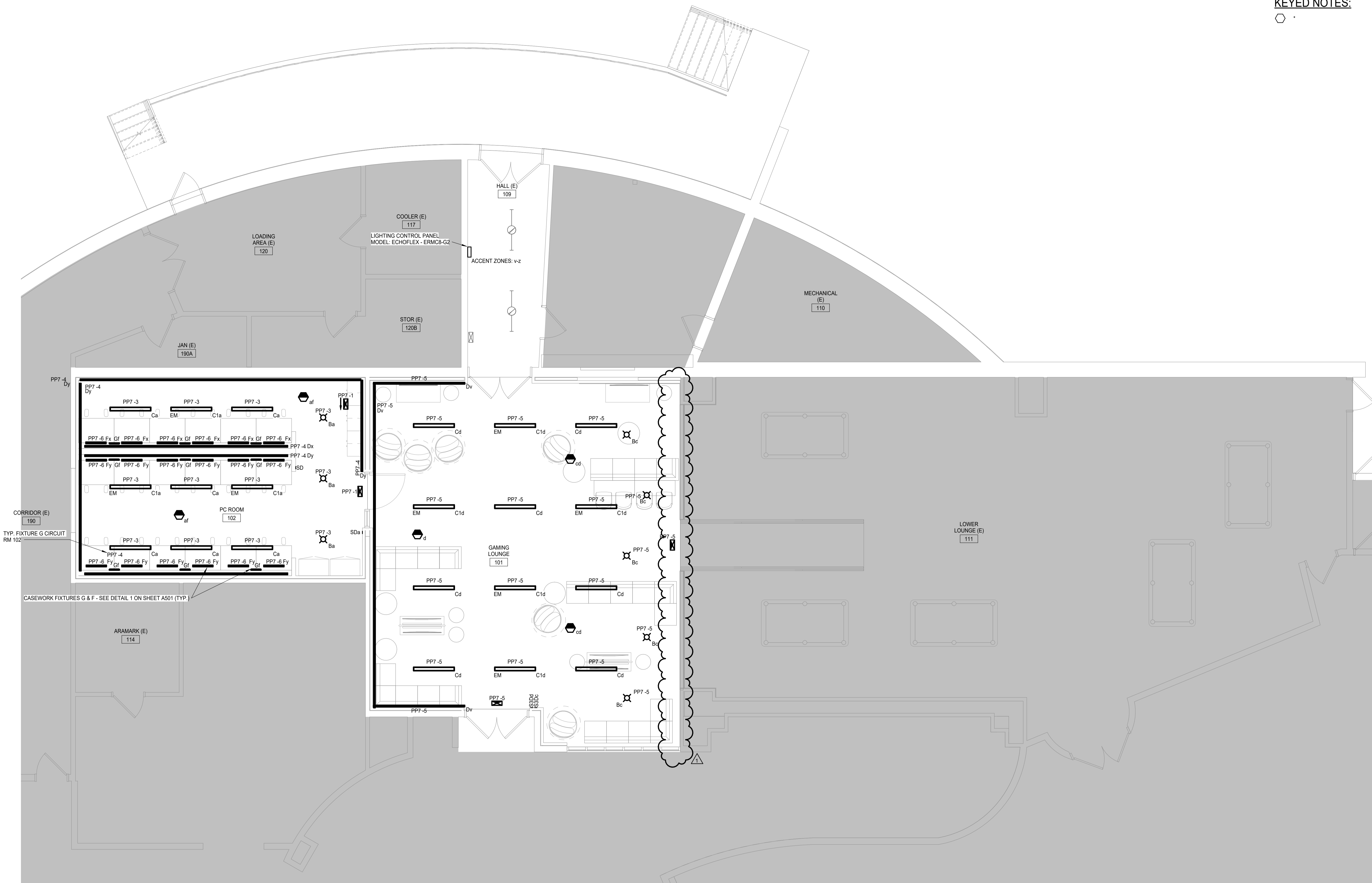
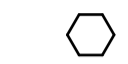
SCALE: AS INDICATED DESIGNED BY: MM
 SMRT PROJECT #: 23101 DRAWN BY: CBM

A121

NOTES:

1. SEE SHEET E-001 FOR LEGEND AND GENERAL NOTES.

KEYED NOTES:



LEVEL 1 LIGHTING PLAN 1
1/4" = 1'-0"

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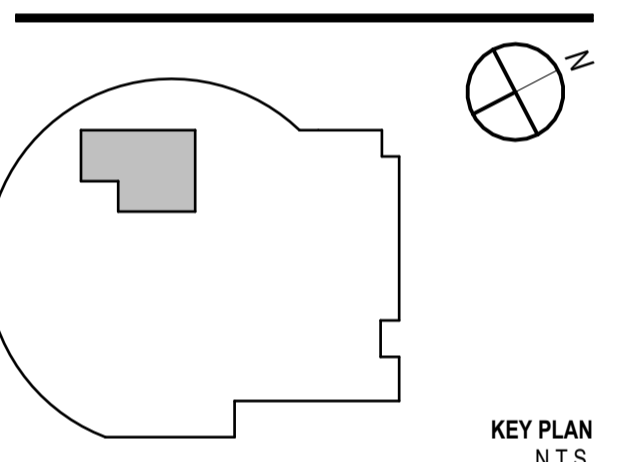


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#	Description	Date
1	ADDENDUM 1	10-11-2024

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SEPTEMBER 17, 2024

SHEET TITLE:

LIGHTING PLAN

Original drawing is 36" x 48" - DO NOT SCALE CONTENTS OF THIS DRAWING.
SCALE: AS INDICATED DESIGNED BY: LJW
SMRT PROJECT #: 23101 DRAWN BY: PCS

EL101

NOTES:

1. SEE SHEET E-001 FOR LEGEND AND GENERAL NOTES.

KEYED NOTES:

○



LEVEL 1 POWER PLAN 1
1/4" = 1'-0"

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KEY PLAN
N.T.S.

STATE OF MAINE
LURA WARD
LICENSED PROFESSIONAL ENGINEER
18777 24

#	Description	Date
1	ADDENDUM 1	10-11-2024

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SEPTEMBER 17, 2024

SHEET TITLE:
POWER PLAN

Original drawing is 36" x 48" - DO NOT SCALE CONTENTS OF THIS DRAWING.
SCALE: AS INDICATED DESIGNED BY: LJW
SMRT PROJECT #: 23101 DRAWN BY: PCS

EP101

CKT NO.	DIRECTORY	BKR AMPS	POLES	A	B	C	A	B	C	POLES	BKR AMPS	DIRECTORY	CKT NO.	
1	LIGHTS RM 102	20 A	1	0.0 kVA			1.4 kVA				1	20 A	RECEPTACLES RM 102	2
3	LIGHTS RM 102	20 A	1		0.3 kVA			0.9 kVA			1	20 A	ACCENT LIGHTS RM 102	4
5	LIGHTS RM 101	20 A	1			0.8 kVA			1.4 kVA		1	20 A	ACCENT LIGHTS RM 102	6
7	DOOR ACTUATOR	20 A	1	0.5 kVA			1.4 kVA				1	20 A	RECEPTACLES RM 102	8
9	RECEPTACLES RM 102	20 A	1		0.7 kVA			1.4 kVA			1	20 A	RECEPTACLES RM 102	10
11	RECEPTACLES RM 102	20 A	1			1.4 kVA			1.5 kVA		1	20 A	RECEPTACLES RM 102	12
13	RECEPTACLES RM 102	20 A	1	1.1 kVA			0.2 kVA				1	20 A	FLOOR RECEPTACLES RM 101	14
15	RECEPTACLES RM 102	20 A	1		1.6 kVA			1.4 kVA			1	20 A	RECEPTACLES RM 102	16
17	FLOOR RECEPTACLES RM 101	20 A	1			0.2 kVA			1.3 kVA		1	20 A	RECEPTACLES RM 101	18
19	SECURITY DEVICES	20 A	1	0.5 kVA			1.1 kVA				1	20 A	RECEPTACLES RM 101	20
21	RECEPTACLES RM 101	20 A	1		1.1 kVA			0.3 kVA			2	15 A	FCU-2B	22
23	RECEPTACLES RM 102	20 A	1			1.4 kVA			0.3 kVA		--	--	--	24
25	RECEPTACLES RM 102	20 A	1	1.4 kVA			0.4 kVA				2	15 A	ERV -1	26
27	FCU-1	15 A	2		0.2 kVA			0.4 kVA			--	--	--	28
29	--	--	--	--	--	--	--	--	--	--	--	--	--	30
31	CJ-1	50 A	3	5.7 kVA			0.3 kVA				2	15 A	FCU-2A	32
33	--	--	--	--	--	--	--	--	--	--	--	--	--	34
35	--	--	--	--	--	--	--	--	--	--	--	--	--	36
37	--	--	--	--	--	--	1.5 kVA				2	20 A	EDH-1	38
39	--	--	--	--	--	--	--	--	--	--	--	--	--	40
41	--	--	--	--	--	--	--	--	--	--	--	--	--	42
43	--	--	--	--	--	--	--	--	--	--	--	--	--	44
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57	--	--	--	--	--	--	--	--	--	--	--	--	--	58
59	--	--	--	--	--	--	--	--	--	--	--	--	--	60

VOLTAGE: 120/208 Wye	3 PHASE	4 WIRE	AMP BUS	TOTAL KVA	A	15.3	PANEL NO.	PP7
MAIN BREAKER			400 A AMP TRIP	TOTAL KVA	B	15.6	LOCATION	HALL (E) 109
MOUNTING Surface				TOTAL KVA	C	14.7		
SC RATING				TOTAL KVA		45.6		

Notes:
60 POLE PANEL - COPPER BUS

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1	ADDENDUM 1	10-11-2024
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ISSUED FOR BID/CONSTRUCTION

SEPTEMBER 17, 2024

SHEET TITLE:

PANEL SCHEDULES

Original drawing is 36" x 48" - DO NOT SCALE CONTENTS OF THIS DRAWING.
DRAWING IS PRINTED IN COLOR.

SCALE: AS INDICATED | DESIGNED BY: LJW
SMRT PROJECT #: 23101 | DRAWN BY: PCS

EP601

LIFE SAFETY LEGEND

- Path ID
Travel Distance
- EGRESS DOOR
- CIRCULATION PATH
- MOST REMOTE POINT
- FIRE EXTINGUISHER CABINET
- ACCESSIBLE ENTRY/EXIT

CODE COMPLIANCE:

PROJECT	UNIVERSITY OF SOUTHERN MAINE ESPORTS RENOVATION
PROJECT DESCRIPTION	THE PROJECT CONSISTS OF THE RENOVATION OF ROUGHLY 2,000 SF OF EXISTING STORAGE AND LOUNGE AREA WITHIN USM'S GORHAM CAMPUS AT BROOKS DINING HALL TO A NEW ESPORTS ARENA PROGRAM. THE PROJECT SCOPE WILL REQUIRE SELECTIVE DEMOLITION AND RECONSTRUCTION OF GENERAL ARCHITECTURAL AND INTERIOR ELEMENTS, A RETROFITTING OF THE EXISTING MECHANICAL SYSTEM TO SPECIFICALLY SERVE THE UPPER LEVEL OF THE FC ROOM. THE ARCHITECTURAL LAYOUT WORK IS LIMITED TO AESTHETICS ONLY. NO CHANGE IN EGRESS.
APPLICABLE CODES	MAINE UNIFORM BUILDING AND ENERGY CODE (MUREC) 2015 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC 2015) 2015 EDITION OF THE INTERNATIONAL EXISTING BUILDING CODE (IEBC 2015) 2015 EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC 2015) 2015 EDITION OF THE INTERNATIONAL MECHANICAL CODE (IMC 2015) 2015 EDITION OF THE UNIFORM PLUMBING CODE 2016 ASHRAE 62.1, 62.2 & 90.1 2018 EDITION OF NFPA 1 2018 EDITION OF NFPA 101 2010 EDITION OF THE FEDERAL ADA STANDARDS FOR ACCESSIBLE DESIGN 2009 EDITION OF ANSIA117.1 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
OCCUPANCY CLASSIFICATION	A-3 (15 NET)
BUILDING CONSTRUCTION	NO CHANGE
SPRINKLER REQUIREMENT	YES (NO CHANGE), REVISED TO ACCOMMODATE NEW LAYOUT
MEANS OF EGRESS	
EXIT ACCESS TRAVEL DISTANCE	250'
COMMON MEANS OF EGRESS	75'
DEAD END	20'

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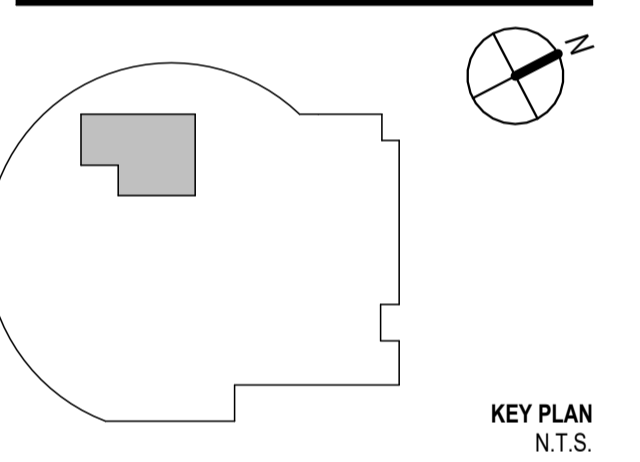
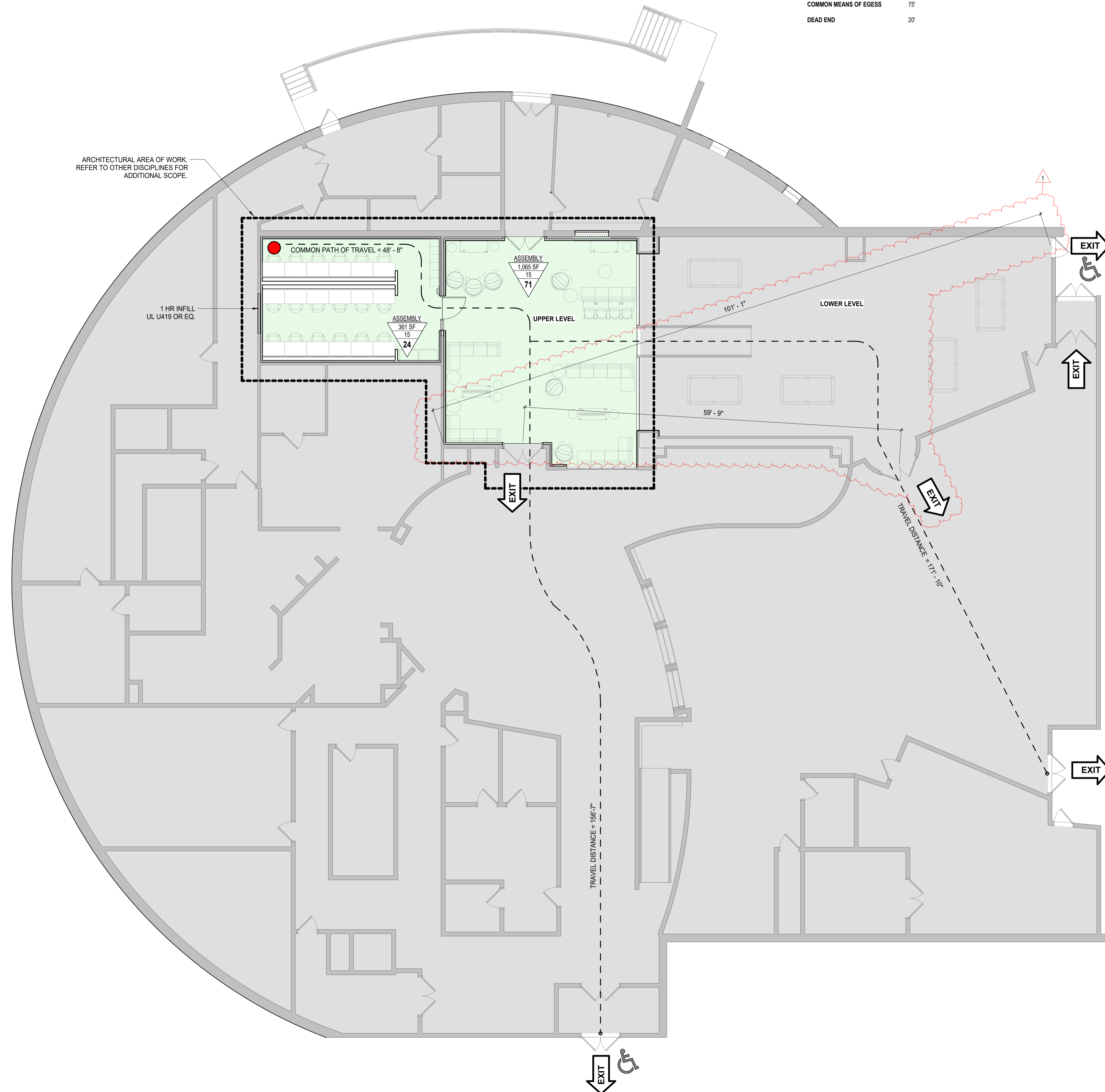
GORHAM, MAINE



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#	Description	Date
1	ADDENDUM #1	10/11/24

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SHEET TITLE:
CODE COMPLIANCE PLAN

Original drawing is 36" x 48" - DO NOT SCALE CONTENTS OF THIS DRAWING.
SCALE: AS INDICATED DESIGNED BY: MM
SMRT PROJECT #: 23101 DRAWN BY: CBM

GL100

1 CODE COMPLIANCE PLAN
1/8" = 1'-0"

VARIABLE REFRIGERANT FLOW AIR-CONDITIONING UNIT SCHEDULE - HEAT PUMP SYSTEMS

OUTDOOR TAG NUMBER	MODEL NUMBER	TYPE	LOCATION	DESIGN HEATING OUTDOOR AIR DB (F)	DESIGN AMBIENT TEMP (F)	COMBINATION RATIO (%)	CORRECTED COOLING CAPACITY (MBH)	REQUIRED HEATING CAPACITY (MBH)	ELECTRIC (OUTDOOR)					MINIMUM EFFICIENCY (EER)	NOTES
									W/HP	W/HP	W/HP	W/HP	W/HP		
CU-1	DAIKIN RXYD144ATJB	R-410A	ON GRADE	-5.0	84.0	120.8	155	102	47.8	50	60	208	3	11.5	SEE BELOW

NOTES:

- PROVIDE CENTRALIZED CONTROLLER WITH BACNET TO COMMUNICATE WITH DDC SYSTEM. THE CENTRAL CONTROLLER REQUIRES AN ADDITIONAL 24 VAC POWER SUPPLY.
- SEE VRF INDOOR UNIT SCHEDULE FOR PERFORMANCE REQUIREMENTS.
- ALL INDOOR AND OUTDOOR REFRIGERANT LINES SHALL BE INSULATED AND ALL OUTDOOR REFRIGERANT LINES SHALL BE PROTECTED BY A UV RESISTANT MATERIAL.
- PROVIDE REFRIGERANT CHARGE FOR SYSTEM PER MANUFACTURER'S RECOMMENDATIONS AND BASED ON ACTUAL INSTALLED PIPE LENGTHS.
- VRF MANUFACTURER SUBMITTAL SHALL HAVE CORRECTED TOTAL SENSIBLE COOLING CAPACITIES AND HEATING CAPACITIES TAKING INTO ACCOUNT FOR DISTANCE LOSSES FOR FCUs.
- CONDENSING UNIT TO BE PROVIDED WITH FIELD INSTALLED WIND BAFFLES AND TOP HOOD FOR LOW AMBIENT OPERATION DOWN TO -4°F.
- CONDENSING UNIT TO BE MOUNTED ON 24" STANDS PROVIDED BY MECHANICAL CONTRACTOR TO BE SET ON CONCRETE EQUIPMENT PAD. PROVIDE WITH SPRING ISOLATORS.
- CONDENSING UNIT MUST BE FURNISHED WITH PROTECTIVE COIL COATING TO WITHSTAND ASTM B117 SALT SPRAY TEST FOR A MINIMUM OF 1000 HOURS.
- PROVIDE ALL MANUFACTURER RECOMMENDED SNOWHAIL GUARDS ON UNIT.

VRF SYSTEM - INDOOR UNIT PERFORMANCE DATA

TAG NUMBER	SERVES	DAIKIN MODEL #	INDOOR TYPE	NOMINAL TONNAGE	ESP (IN W.C.)	HEATING (AT -5 DEG F)		COOLING			INDOOR SECTION				NOTES
						TOTAL CAPACITY MBH	SENSIBLE CAPACITY	CFM (DRY) HI-SPEED	MCA	MOP	WPHWZ				
FCU-1	GAMING LOUNGE 101	FXS201TBVJU	DUCTED CONCEALED	2.5	0.6	35.2	29.2	19.1	810	1.8	15	208/180	SEE BELOW		
FCU-2A	PC ROOM 102	FXS204TBVJU	DUCTED CONCEALED	4	1.1	56.0	46.7	29.3	1305	2.8	15	208/180	SEE BELOW		
FCU-2B	PC ROOM 102	FXS204TBVJU	DUCTED CONCEALED	4	1.1	56.0	46.7	29.3	1305	2.8	15	208/180	SEE BELOW		
FCU-2C	PC ROOM 102	FXS204TBVJU	DUCTED CONCEALED	4	1.1	56.0	46.7	29.3	1305	2.8	15	208/180	SEE BELOW		

NOTES:

- PROVIDE SYSTEM WITH VARIABLE SPEED INVERTER DRIVEN COMPRESSOR.
- PROVIDE INDOOR UNIT WITH INTEGRATED CONDENSATE PUMP HAVING RESERVOIR AND SENSOR. PROVIDE WITH UL508 CONDENSATE OVERFLOW SWITCH.
- PROVIDE INSULATED LINE SET BETWEEN INDOOR UNITS AND OUTDOOR UNIT THAT INCLUDES WEATHER AND UV PROTECTIVE COATING.
- PROVIDE FIELD INSTALLED MERV 8 FILTER RACK PER INDOOR UNIT.
- INDOOR UNITS SHALL BE SERVED BY OUTDOOR CONDENSING UNIT, CU-1.

ENERGY VENTILATOR UNIT SCHEDULE CONT.

TAG	WINTER CONDITIONS								SUMMER CONDITIONS								NOTES	
	ENTERING CONDITIONS				LEAVING CONDITIONS				ENTERING CONDITIONS				LEAVING CONDITIONS					
	OUTSIDE AIR DB °F	RETURN AIR WB °F	DB °F	WB °F	SUPPLY AIR DB °F	SUPPLY AIR WB °F	ENERGY RECOVERY @ WINTER DESIGN	EFFECTIVENESS @ WINTER DESIGN	OUTSIDE AIR DB °F	RETURN AIR WB °F	DB °F	WB °F	SUPPLY AIR DB °F	SUPPLY AIR WB °F	ENERGY RECOVERY @ SUMMER DESIGN	EFFECTIVENESS @ SUMMER DESIGN		
ERV-1	-5	-6	70	51.5	50.1	39.2	43.803	71.6	69.9	71.3	75	62.5	78.4	66.8	11.329	71.6	54	1-3

NOTES:

- PROVIDE (2) 1 HP ECM MOTORS (460/3), FUSED DISCONNECT, DOUBLE WALL CONSTRUCTION, AND (2) FACTORY MOUNTED FILTER ALARMS.
- PROVIDE ONE MOTORIZED DAMPER ON THE INTAKE AND ONE BACKDRAFT DAMPER ON THE RELIEF.
- PROVIDE WITH ENHANCED CONTROLS FOR BACNET MS/TP COMMUNICATION TO BMS.

ENERGY RECOVERY VENTILATOR SCHEDULE

TAG	LOCATION	AREA SERVED	OA/SA (CFM)	RA/EA (CFM)	SUPPLY FAN		EXHAUST FAN		OPERATING WEIGHT (LBS)	SUPPLY FILTER	EXHAUST FILTER	ELECTRICAL REQUIREMENTS		MODEL NO.	NOTES		
					E.S.P. (IN WC)	WATTS	RPM	E.S.P. (IN WC)				WATTS	RPM			V/PH	MCA
ERV-1	MECHANICAL ROOM	PC ROOM & GAMING LOUNGE	675	675	1.25	341	2480	1.25	326	2446	275	MERV 8	MERV 8	208/1	3.9	RENEWAIRE HET10UNV	1-3

NOTES:

- PROVIDE (2) 1 HP ECM MOTORS (460/3), FUSED DISCONNECT, DOUBLE WALL CONSTRUCTION, AND (2) FACTORY MOUNTED FILTER ALARMS.
- PROVIDE ONE MOTORIZED DAMPER ON THE INTAKE AND ONE BACKDRAFT DAMPER ON THE RELIEF.
- PROVIDE WITH ENHANCED CONTROLS FOR BACNET MS/TP COMMUNICATION TO BMS.

ELECTRIC DUCT HEATER SCHEDULE

TAG	SERVING	DUCT SIZE (IN)	CFM	ELECTRIC HEATING COIL					MAX WEIGHT (LBS)	CONFIGURATION	MODEL NUMBER	NOTES	
				KW	EAT °F	LAT °F	VOLTAGE/PH/ASE	LINE AMPS					FUSE AMPS
EDH-1	FCU-1	10	335	3	50.1	78.3	208/1	14.4	20	20	RHW3208-10	RENEWAIRE ZON-10-3208	1

NOTES:

- PROVIDE WITH SCR CONTROL.

LOUVER SCHEDULE

TAG	SERVICE	TYPE	AIRFLOW	APD	SIZE (IN) WxH	VELOCITY	FREE AREA	MATERIAL	TYP. UNIT MFG. & MODEL NO.	NOTES
LVR-1	ERU-1	EXHAUST AIR	675	0.04	32 X 16	478	42.4%	ALUMINUM	GREENHECK ESD-403	1-4
LVR-2	ERU-1	OUTSIDE AIR	675	0.01	40 X 24	200	47.8%	ALUMINUM	GREENHECK ESD-403	1-4

NOTES:

- PROVIDE LOUVER WITH INSECT SCREEN.
- PROVIDE WITH EXTENDED SILL AND KYNAR FINISH (COLOR BY ARCHITECT)
- LOUVERS SHALL HAVE STANDARD FRAME CONSTRUCTION.
- COORDINATE RADIUS/CURVE OF THE LOUVER WITH ARCHITECTURAL.

REGISTER, DIFFUSER & GRILLE SCHEDULE

TAG	MAX CFM	NECK SIZE	TYPE	DELTA - P	MAX NC	MODEL NO.	NOTES
S-1	175	6" Ø	PLAQUE DIFFUSER	0.05	<20	PRICE SPD	1.2.3.6
S-2	280	8" Ø	PLAQUE DIFFUSER	0.04	<20	PRICE SPD	1.2.3.6
S-3	435	10" Ø	PLAQUE DIFFUSER	0.04	22	PRICE SPD	1.2.3.6
S-4	550	12" Ø	PLAQUE DIFFUSER	0.03	21	PRICE SPD	1.2.3.6
S-5	745	14" Ø	PLAQUE DIFFUSER	0.03	23	PRICE SPD	1.2.3.6
S-6	1040	15" Ø	PLAQUE DIFFUSER	0.05	30	PRICE SPD	1.2.3.6
R-1	185	10"x8"	LOUVERED RETURN	0.06	<20	PRICE 635	1.2.3.4.6
R-2	240	12"x8"	LOUVERED RETURN	0.06	<20	PRICE 635	1.2.3.4.6
R-3	365	16"x10"	LOUVERED RETURN	0.06	<20	PRICE 635	1.2.3.4.6
R-4	720	18"x16"	LOUVERED RETURN	0.06	22	PRICE 635	1.2.3.4.6
R-5	1330	24"x20"	LOUVERED RETURN	0.10	26	PRICE 635	1.2.3.4.6
R-6	1450	36"x18"	LOUVERED RETURN	0.05	20	PRICE 635	1.2.3.4.6
R-7	1885	42"x20"	LOUVERED RETURN	0.05	22	PRICE 635	1.2.3.4.6
E-1	195	8"x8"	LOUVERED EXHAUST	0.10	22	PRICE 635	1.2.3.6
E-2	250	10"x10"	LOUVERED EXHAUST	0.05	22	PRICE 635	1.2.3.6
E-3	1115	24"x18"	LOUVERED EXHAUST	0.05	22	PRICE 635	1.2.3.6

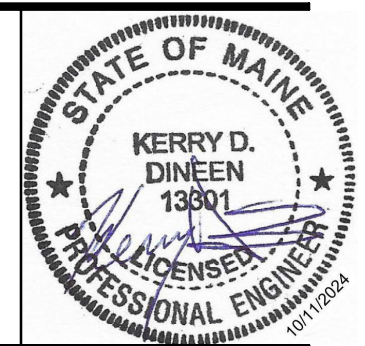
NOTES:

- COORDINATE MOUNTING TYPE WITH INSTALLATION CONDITIONS.
- ALUMINUM CONSTRUCTION.
- PROVIDE CROSS NOTCH FOR STRADDLING T-BAR
- OPPOSED BLADE DAMPER
- PROVIDE INTEGRAL AIR SCOOP WHERE VOLUME DAMPER IS NOT SHOWN ON PLANS.
- RGDS TO HAVE CUSTOM COLOR (RE: ARCHITECTURAL)

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NOTES:
1. SEE SHEETS M-001 AND M-002 FOR LEGEND AND GENERAL NOTES.



1	ADDENDUM 1	10/11/2024
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SEPTEMBER 17, 2024

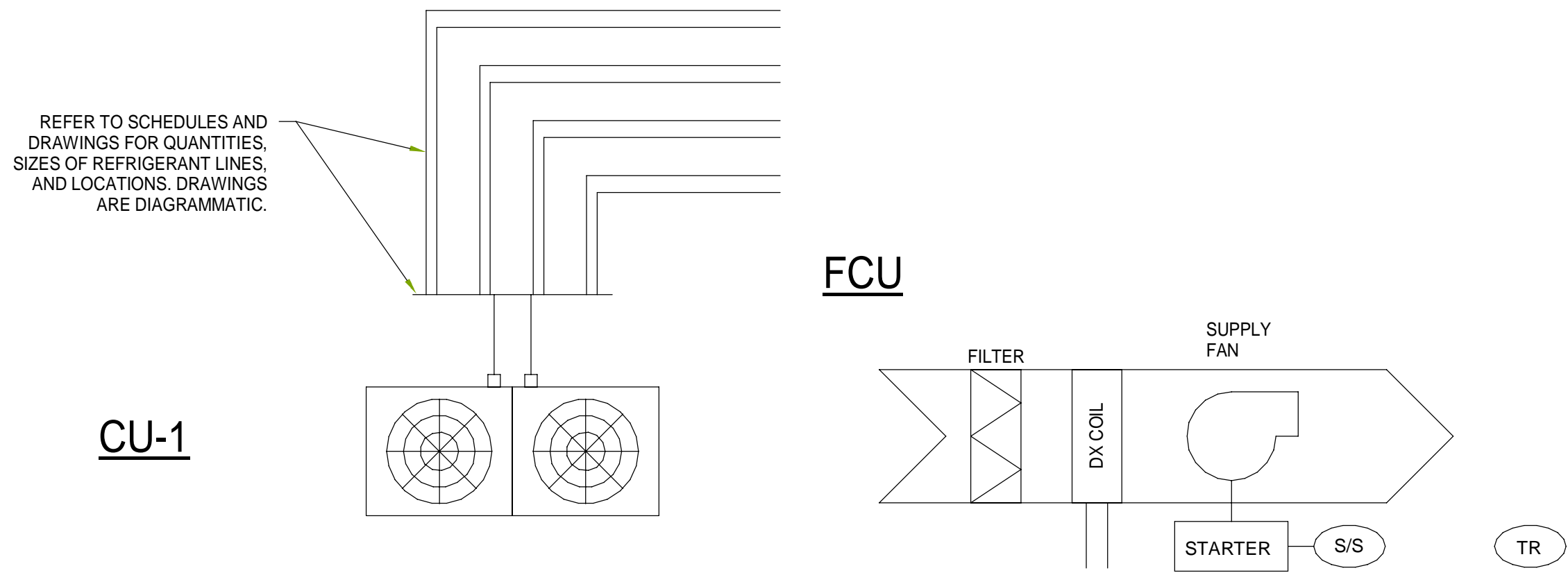
SHEET TITLE:
MECHANICAL SCHEDULES

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M-601

NOTES:

- SEE SHEET M-650 FOR LEGEND AND GENERAL NOTES.



FCU-1 THROUGH FCU-2C W/ CU-1

HEAT PUMP VRF SYSTEM CONTROLS GENERAL:

- ALL NEW UNIT VRF SYSTEMS SHALL BE CONTROLLED BY A COMBINATION OF THE MANUFACTURER'S PROVIDED CONTROLS. ATC CONTRACTOR SHALL INTERFACE ALL NEW FCUS, CUS, AND THERMOSTATS TO MANUFACTURER'S CENTRALIZED CONTROLLER.
 - ANTI-RECYCLE TIME DELAYS AND SAFETIES ON COMPRESSORS SHALL BE PROVIDED BY THE MANUFACTURER.
 - ATC CONTRACTOR SHALL WIRE 3RD PARTY THERMOSTAT AND TEST UNIT MANUFACTURER'S CONTROLS. 3RD PARTY THERMOSTAT SHALL HAVE 2H/2C CAPABLE OF CONTROLLING THE BASEBOARD RADIATION OR RADIANT HEAT (WHERE APPLICABLE) AS THE 1ST MEANS OF HEATING AND THE FCU AS THE SECOND MEANS OF HEAT. PROVIDE MANUFACTURER'S 3RD PARTY THERMOSTAT ADAPTER FOR THESE LOCATIONS. AREAS ONLY SERVED BY FCUS SHALL BE CONTROLLED VIA MANUFACTURER'S THERMOSTAT.
 - DURING SCHEDULED OCCUPIED HOURS, THE HEATING SETPOINT SHALL BE 70°F(ADJ.) AND THE COOLING SETPOINT SHALL BE 5°F (ADJ.) WARMER THAN THE HEATING SETPOINT.
 - COORDINATE OCCUPIED/UNOCCUPIED SCHEDULE (ADJ.) WITH OWNER.
 - PROVIDE 2 HOUR (ADJ.) UNOCCUPIED OVERRIDE TO START THE UNITS IN OCCUPIED MODE. THE UNITS SHALL RETURN TO UNOCCUPIED AFTER OVERRIDE IS FINISHED.
- COOLING CONTROL:**
- UPON RISE IN ROOM TEMPERATURE ABOVE THE ROOM COOLING SETPOINT, THE FAN COIL UNIT SHALL BE ENERGIZED TO MAINTAIN COOLING SET POINT. THE SUPPLY FAN SHALL ADJUST SPEED (LOW - MEDIUM - HIGH) AS REQUIRED TO MAINTAIN SET POINT.
- UNOCCUPIED COOLING CONTROL:**
- THE AIR CONDITIONING SYSTEM SHALL BE DE-ENERGIZED.
- HEATING CONTROL - VRF:**
- UPON A DROP IN ROOM TEMPERATURE BELOW THE ROOM HEATING SETPOINT, THE FAN COIL UNIT SHALL BE ENERGIZED TO MAINTAIN SET POINT. THE SUPPLY FAN SHALL ADJUST SPEEDS (LOW - MEDIUM - HIGH) AS REQUIRED TO MAINTAIN SETPOINT.
- UNOCCUPIED HEATING CONTROL:**
- IF WHEN THE UNIT IS OFF ANY ROOM TEMPERATURE SENSOR DROPS BELOW 55°F (ADJ.) THE FCU AND CU SHALL BE ENERGIZED TO MAINTAIN SETPOINT. WHEN ALL ROOMS RISE ABOVE 59°F (ADJ.) THE FCU AND CU SHALL SHUT DOWN.
 - PROVIDE 2 HOUR (ADJ.) UNOCCUPIED OVERRIDE TO START THE UNITS IN OCCUPIED MODE. THE UNITS SHALL RETURN TO UNOCCUPIED AFTER OVERRIDE IS FINISHED.
- WARM-UP/COOL-DOWN CONTROL:**
- PROVIDE OPTIMAL START CAPABILITY AND WARM-UP/ COOL-DOWN CONTROL. THE UNITS SHALL BE ENERGIZED BETWEEN 5-60 MINUTES (ADJ.) BEFORE SCHEDULED OCCUPIED MODE BASED ON OPERATIONAL DATA HISTORY IN ORDER TO REACH THE SCHEDULED TEMPERATURE SETPOINT.

2 VRF SYSTEM SEQUENCE
NOT TO SCALE

DEDICATED OUTSIDE AIR HANDLER WITH ENERGY RECOVERY SEQUENCE OF OPERATION

- DDC CONTROLLER:**
- CONTROLLER WITH INTEGRAL LCD READOUT FOR CHANGING SET POINTS AND MONITORING UNIT OPERATION.
 - PROVIDED WITH REQUIRED SENSORS AND PROGRAMMING.
 - FACTORY PROGRAMMED, MOUNTED, AND TESTED.
 - INTEGRAL USB AND ETHERNET PORTS FOR UPDATING PROGRAMS AND RETRIEVING LOG FILES.

BMS INTERFACE:

- BACnet MS/TP

GENERAL OPERATION

POWER UP:

- WHEN THE UNIT MAIN DISCONNECT IS CLOSED A DELAY OF 10 SECONDS (ADJ.) OCCURS FOR THE CONTROLLER TO COME ONLINE.

ERV UNIT START COMMAND:

- AN INPUT SIGNAL IS REQUIRED TO ENABLE THE UNIT OPERATION. THE UNIT WILL BE COMMANDED ON BY:
 - ENABLE VIA CONTROLLER DISPLAY
 - ALL TYPES OF INPUT THAT ARE ENABLED MUST BE TRUE BEFORE THE UNIT WILL START.
 - THE EXHAUST FAN STARTS AFTER A 3 SECOND DELAY (ADJ.). THE EXHAUST FAN WILL NOT START UNTIL THE DAMPER ACTUATOR END SWITCH CLOSES.
 - THE SUPPLY FAN STARTS AFTER A 8 SECOND DELAY (ADJ.). THE SUPPLY FAN WILL NOT START UNTIL THE DAMPER ACTUATOR END SWITCH CLOSES.
 - THE SUPPLY FAN, EXHAUST FAN ARE CONTROLLED BASED ON THE CHOSEN UNIT OPERATING MODES AND AIR CONDITIONS.

ERV UNIT STOP COMMAND:

- THE UNIT CAN THEN BE COMMANDED OFF BY:
 - DISABLE VIA CONTROLLER DISPLAY
 - SUPPLY FAN AND EXHAUST FAN ARE DE-ENERGIZED
 - ALL DAMPERS ARE UNPOWERED AND SPRING RETURN TO THEIR DEFAULT POSITION AFTER A 10 SECOND DELAY (ADJ.).

SUPPLY FAN OPERATION:

- THE SUPPLY FAN SPEED WILL BE CONTROLLED FOR:
 - FIXED PERCENTAGE OF MAX SPEED (0-100%)
 - THE UNIT WILL ATTEMPT TO START THE SUPPLY FAN WHEN THE SUPPLY FAN DELAY TIMER EXPIRES. WHEN THE SUPPLY FAN STARTS THE SUPPLY FAN ADJUSTABLE CURRENT SWITCH SHOULD CLOSE AND REMAIN CLOSED UNTIL THE FAN IS TURNED OFF.

FIXED FAN SPEED OPTION:

- THE ANALOG VOLTAGE COMMAND TO THE SUPPLY FAN ECM CAN BE SET FROM THE UNIT CONTROLLER DISPLAY OR PROVIDED BY THE BMS. THE ADJUSTABLE RANGE OF 0% TO 100% CORRESPOND TO THE MINIMUM AND MAXIMUM FAN OPERATING SPEED. THIS SUPPLY FAN OPERATION MODE CAN BE USED TO FIELD BALANCE THE SUPPLY AIR FLOW RATE.

EXHAUST FAN OPERATION:

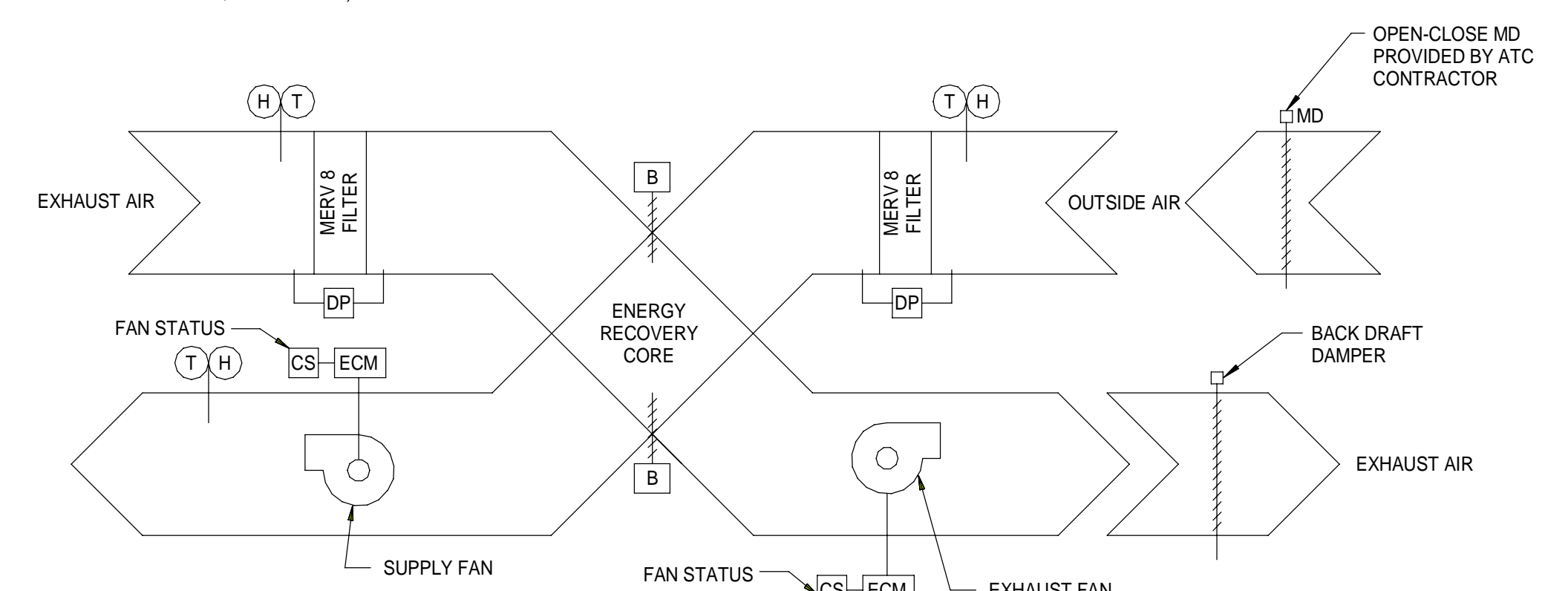
- THE EXHAUST FAN SPEED WILL BE CONTROLLED FOR:
 - FIXED PERCENTAGE OF MAX SPEED (0-100%)
 - THE UNIT WILL ATTEMPT TO START THE EXHAUST FAN WHEN THE EXHAUST FAN DELAY TIMER EXPIRES. WHEN THE EXHAUST FAN STARTS THE EXHAUST FAN ADJUSTABLE CURRENT SWITCH SHOULD CLOSE AND REMAIN CLOSED UNTIL THE FAN IS TURNED OFF.

EXHAUST FAN STATUS:

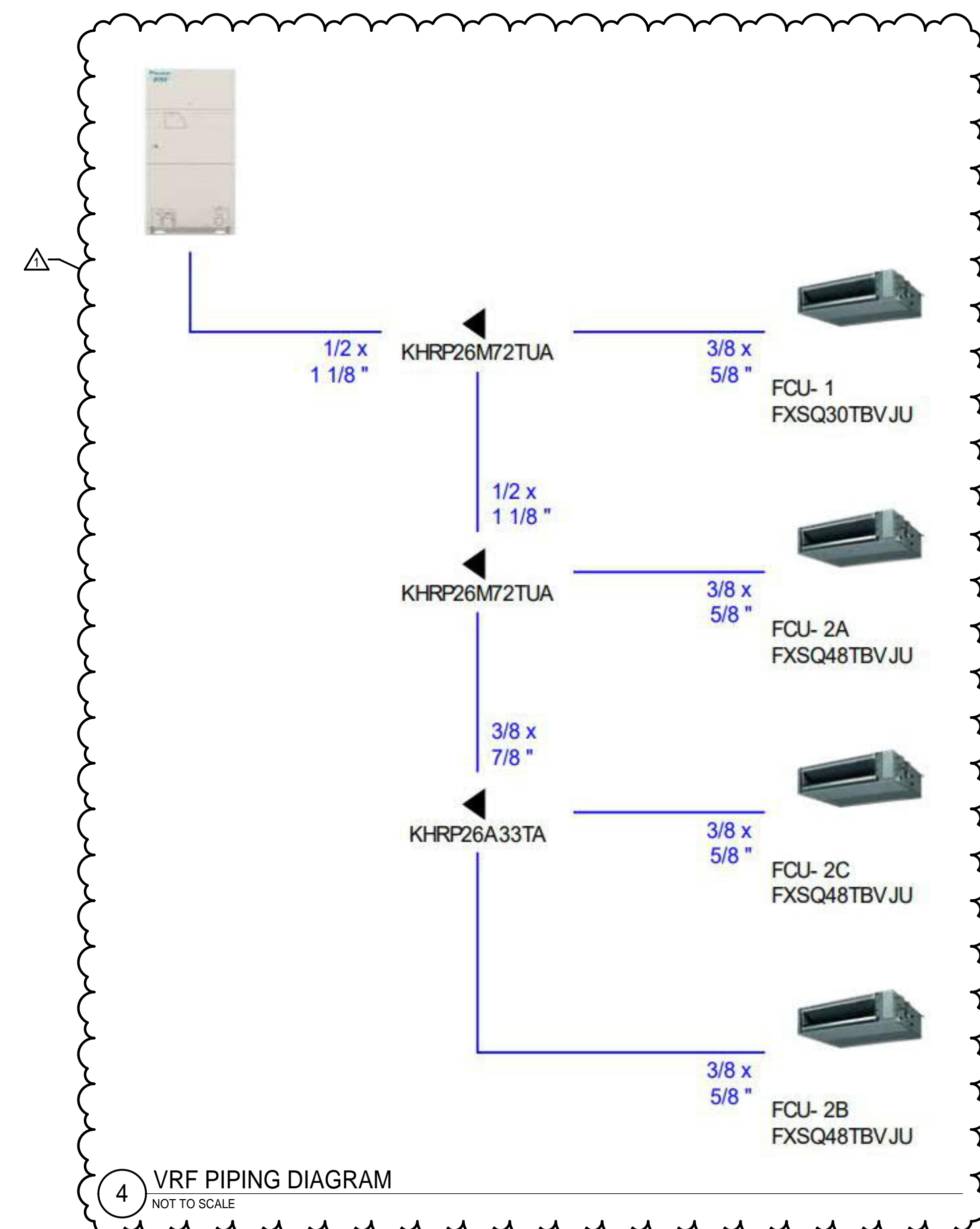
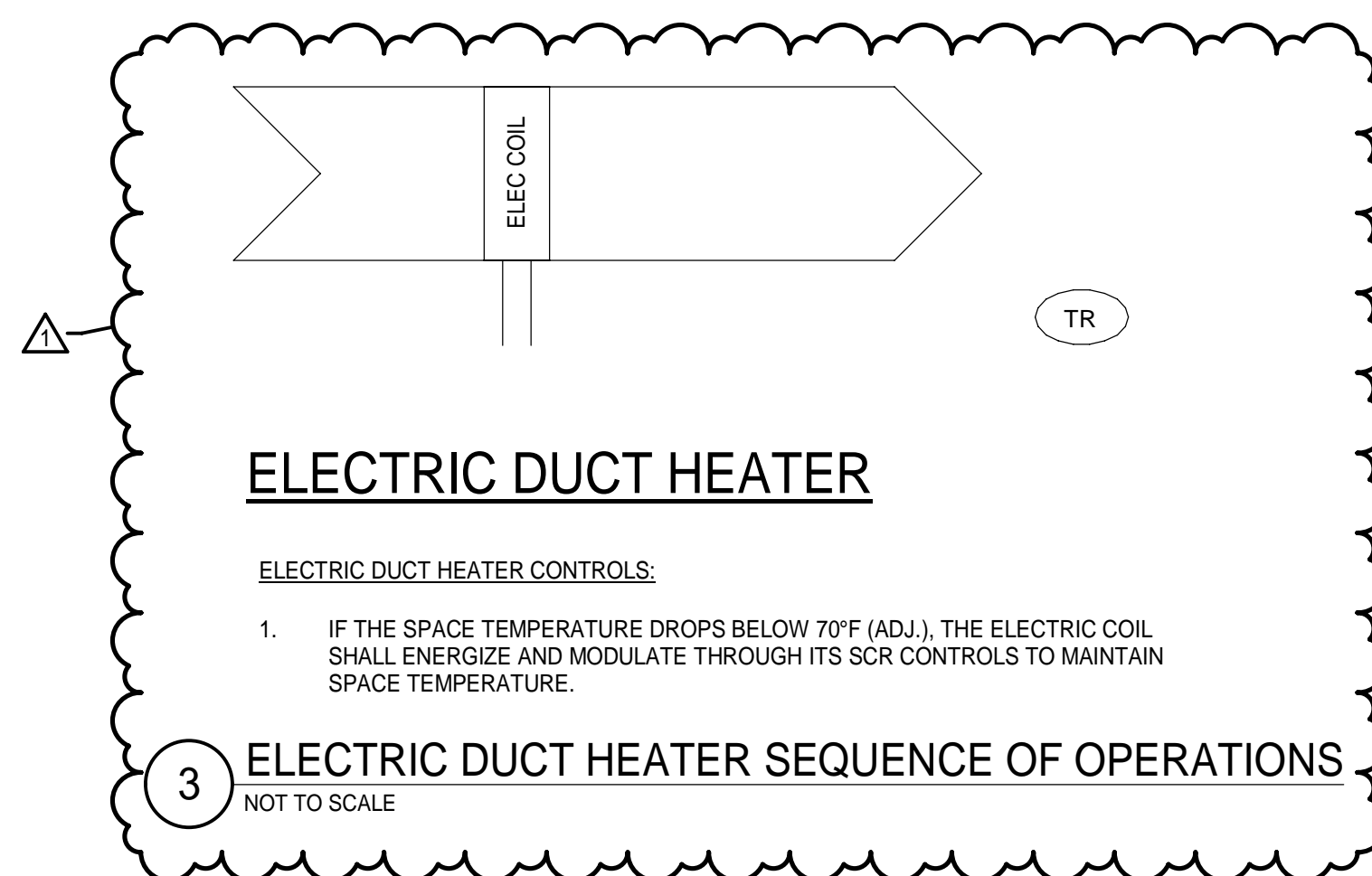
- AFTER A DELAY OF 90 SECONDS (ADJ.) FROM EXHAUST FAN START SIGNAL, IF EXHAUST FAN CURRENT SWITCH IS STILL OPEN THE EXHAUST FAN ALARM SHOULD BE SET TO TRUE. THE EXHAUST FAN STATUS SHALL BE SET TO TRUE ONLY WHEN THE EXHAUST FAN OUTPUT IS ON AND EXHAUST FAN CURRENT SWITCH IS CLOSED. THE EXHAUST FAN STATUS SHALL BE FALSE IN ALL OTHER CIRCUMSTANCES.

FIXED SPEED OPTION:

- THE ANALOG VOLTAGE COMMAND TO THE EXHAUST FAN ECM CAN BE SET FROM THE UNIT CONTROLLER DISPLAY OR PROVIDED BY THE BMS. THE ADJUSTABLE RANGE OF 0% TO 100% CORRESPOND TO THE MINIMUM AND MAXIMUM FAN OPERATING SPEED (0 VDC MINIMUM TO 10 VDC MAXIMUM, ADJUSTABLE). THIS EXHAUST FAN OPERATION MODE CAN BE USED TO FIELD BALANCE AIR FLOW RATE.



1 ERU SEQUENCE
NOT TO SCALE



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SHEET TITLE:

MECHANICAL SEQUENCE OF OPERATIONS

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M-651

NOTES:

- SEE SHEETS M-001 AND M-002 FOR LEGEND AND GENERAL NOTES.
- PROVIDE VOLUME DAMPERS DOWN STREAM OF VAV BOXES. AT EACH BRANCH FROM MAIN DUCTWORK AND DUCT RUN OUTS. PROVIDE OPPOSED BLADE DAMPERS AT EACH NECK TO AN INDIVIDUAL REGISTER OR DIFFUSER IN SUPPLY, RETURN AND EXHAUST DUCTS IRRESPECTIVE OF WHETHER OR NOT A DAMPER IS INDICATED ON THE PLANS. PROVIDE CABLE OPERATED EMOTE CONTROLLED VOLUME DAMPERS IN BRANCH DUCTS LOCATED ABOVE INACCESSIBLE CEILINGS. LOCATE CABLE TERMINATION IN ACCESSIBLE LOCATION ABOVE ACCESSIBLE CEILING. PROVIDE BLOCKING AS REQUIRED.

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KEYNOTES

KEYNOTE	KEYNOTE DESCRIPTION
1	6" DIA OUTSIDE AIR FROM ERV-1 DUCTED INTO THE RETURN DUCT OF FCU-2A. BALANCE TO 80 CFM.
2	6" DIA OUTSIDE AIR FROM ERV-1 DUCTED INTO THE RETURN DUCT OF FCU-2B. BALANCE TO 80 CFM.
3	6" DIA OUTSIDE AIR FROM ERV-1 DUCTED INTO THE RETURN DUCT OF FCU-2C. BALANCE TO 80 CFM.
4	10" DIA OUTSIDE AIR FROM ERV-1 DUCTED INTO THE RETURN DUCT OF FCU-1. BALANCE TO 335 CFM.
5	SUPPLY DUCT MAIN TO SUPPLY DUCT CONNECTION ON ERV-1.
6	CONTRACTOR TO INSTALL LVR-1 MINIMUM 10' ABOVE ADJOINING GRADE AND MINIMUM 10' AWAY FROM NEW OUTSIDE AIR LOUVER.
7	MOUNT ON CONCRETE EQUIPMENT PAD WITH 24" EQUIPMENT STANDS IN ACCORDANCE WITH MANUFACTURERS STANDARDS AND REQUIREMENTS.
8	OUTSIDE AIR PLENUM OFF NEW LOUVER SHALL BE 40"x24"x8" (WxHxD). PROVIDE DRAIN AND VALVE IN THE OUTSIDE AIR PLENUM AND PITCH TOWARDS LOUVER.
9	EXHAUST AIR PLENUM OFF NEW LOUVER SHALL BE 32"x16"x20" (WxHxD). PROVIDE DRAIN AND VALVE IN THE EXHAUST AIR PLENUM AND PITCH TOWARDS LOUVER.

KEY PLAN
 N.T.S.

STATE OF MAINE
 KERRY D. DINEEN
 1987
 PROFESSIONAL ENGINEER

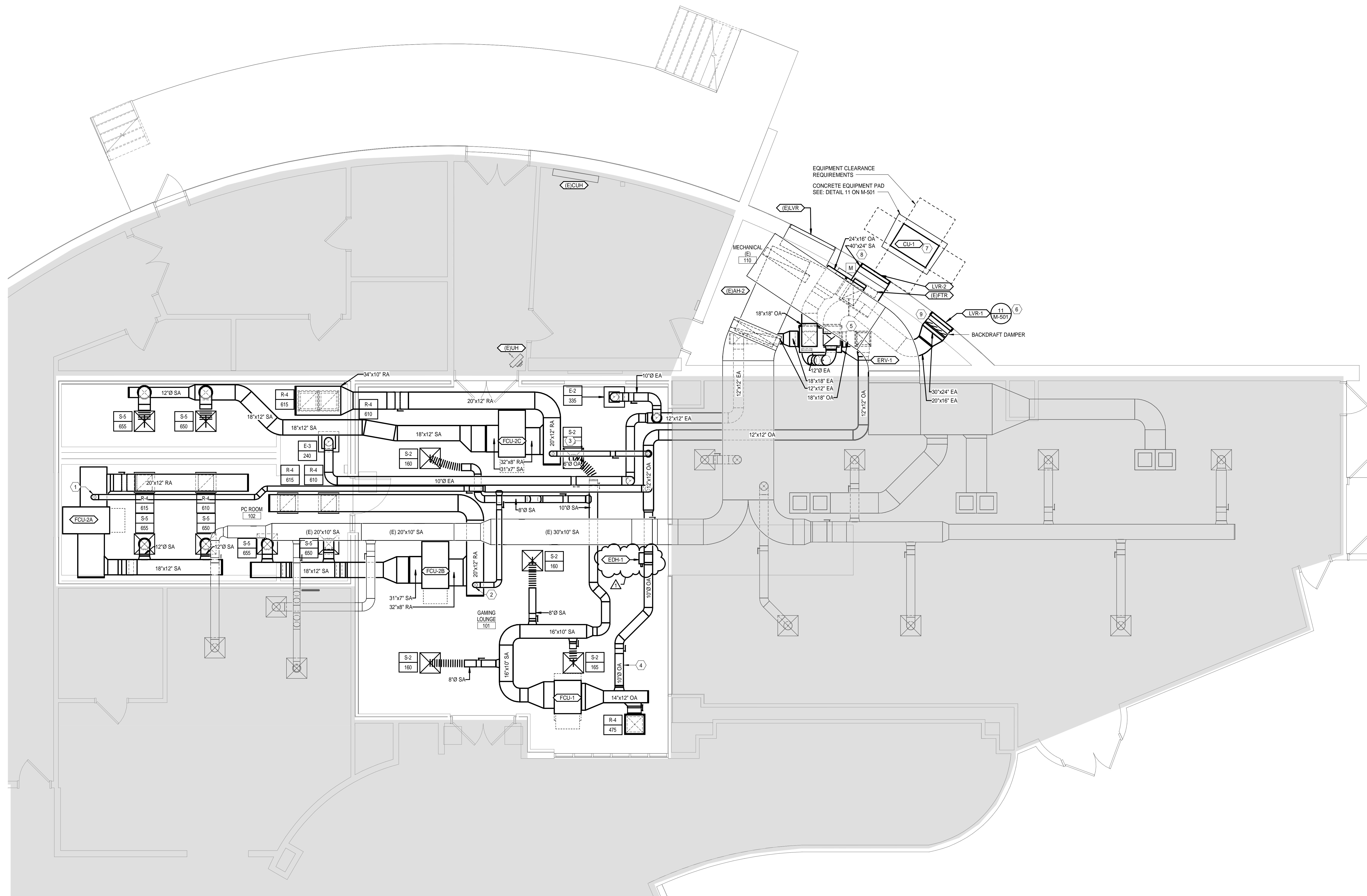
#	Description	Date
1	ADDENDUM 1	10/11/2024

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SHEET TITLE:
HVAC DUCTWORK PLAN

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MH101



1 LEVEL 1 - HVAC NEW DUCTWORK PLAN
 1/4" = 1'-0"

NOTES:

1. SEE SHEETS M-001 AND M-002 FOR LEGEND AND GENERAL NOTES.
2. LOCATE AND COORDINATE WITH THE GENERAL CONTRACTOR THE INSTALLATION OF ACCESS PANELS FOR ALL CONCEALED VALVES INCLUDING BUT NOT LIMITED TO VALVES ABOVE HARD CEILINGS AND WITHIN SOFFITS.
3. PROVIDE LABELING ON CEILING GRID FOR ALL ABOVE CEILING EQUIPMENT.
4. FINAL PIPE SIZES FOR VRF SYSTEM TO BE BASED ON MANUFACTURER'S RECOMMENDATIONS BASED ON APPROVED EQUIPMENT SUBMITTAL, REF. LINE LENGTHS, AND FIELD CONDITIONS.

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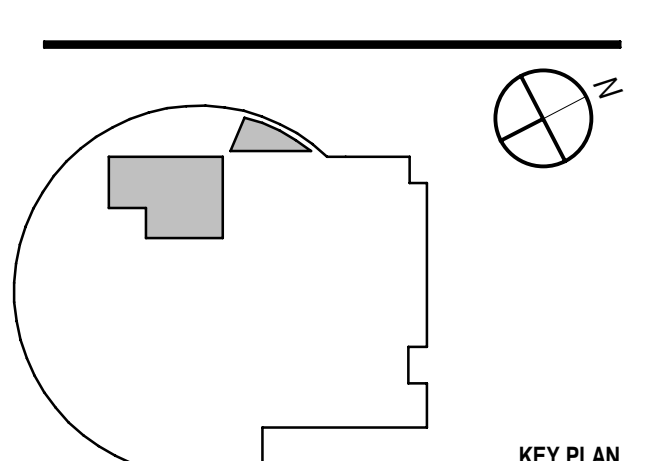
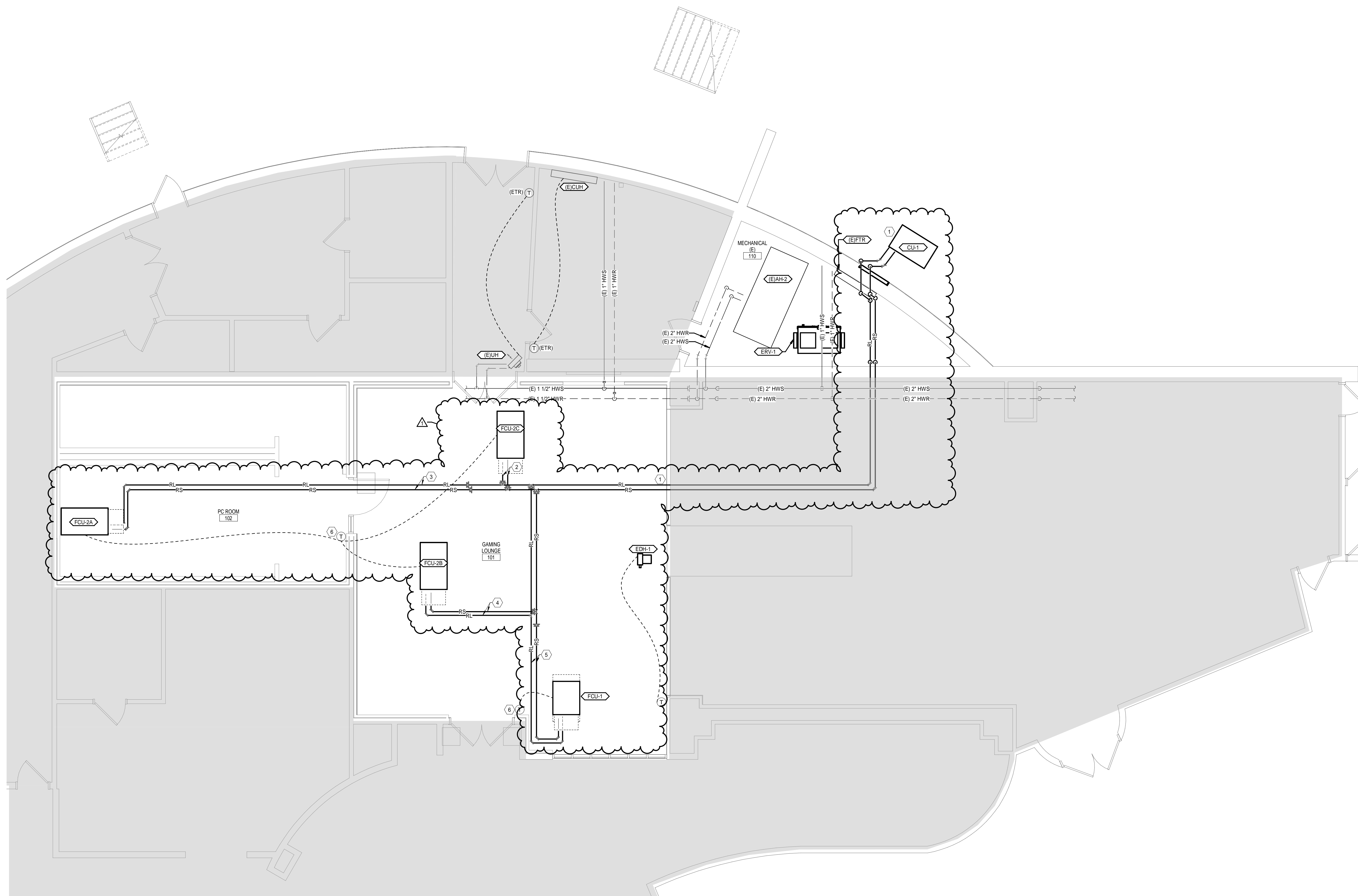
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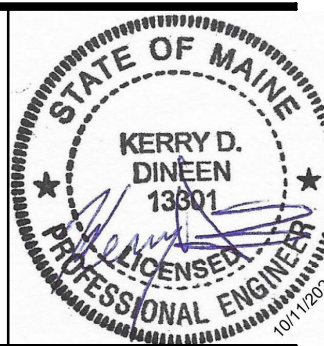
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KEYNOTES

KEYNOTE	KEYNOTE DESCRIPTION
1	REFRIGERANT LINE SIZES: 1/2" (LIQUID) X 1 1/8" (GAS)
2	REFRIGERANT LINE SIZES FOR FCU-2A: 3/8" (LIQUID) X 5/8" (GAS)
3	REFRIGERANT LINE SIZES FOR FCU-2B: 3/8" (LIQUID) X 5/8" (GAS)
4	REFRIGERANT LINE SIZES FOR FCU-1: 3/8" (LIQUID) X 5/8" (GAS)
5	REFRIGERANT LINE SIZES FOR FCU-1: 3/8" (LIQUID) X 5/8" (GAS)
6	PRIOR TO INSTALLING VRF TEMPERATURE SENSORS, COORDINATE WITH GC, ARCHITECT, AND MECHANICAL ENGINEER FOR FINAL APPROVED LOCATIONS (TYP. FOR ALL).



KEY PLAN
N.T.S.



#	Description	Date
1	ADDENDUM 1	10/11/2024

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SHEET TITLE:
HVAC PIPING PLAN

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MP101

1 LEVEL 1 - HVAC NEW PIPING PLAN
1/4" = 1'-0"

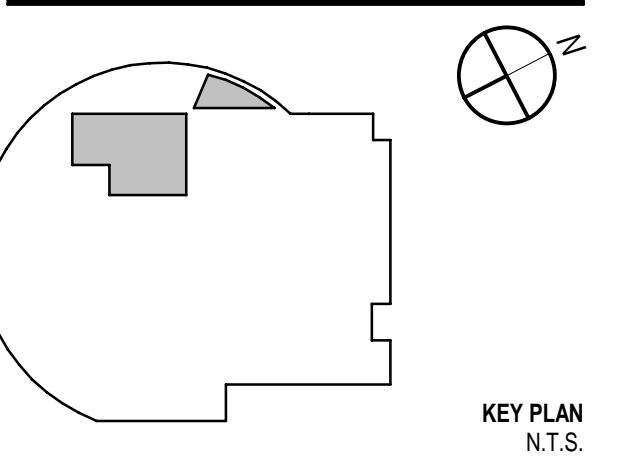
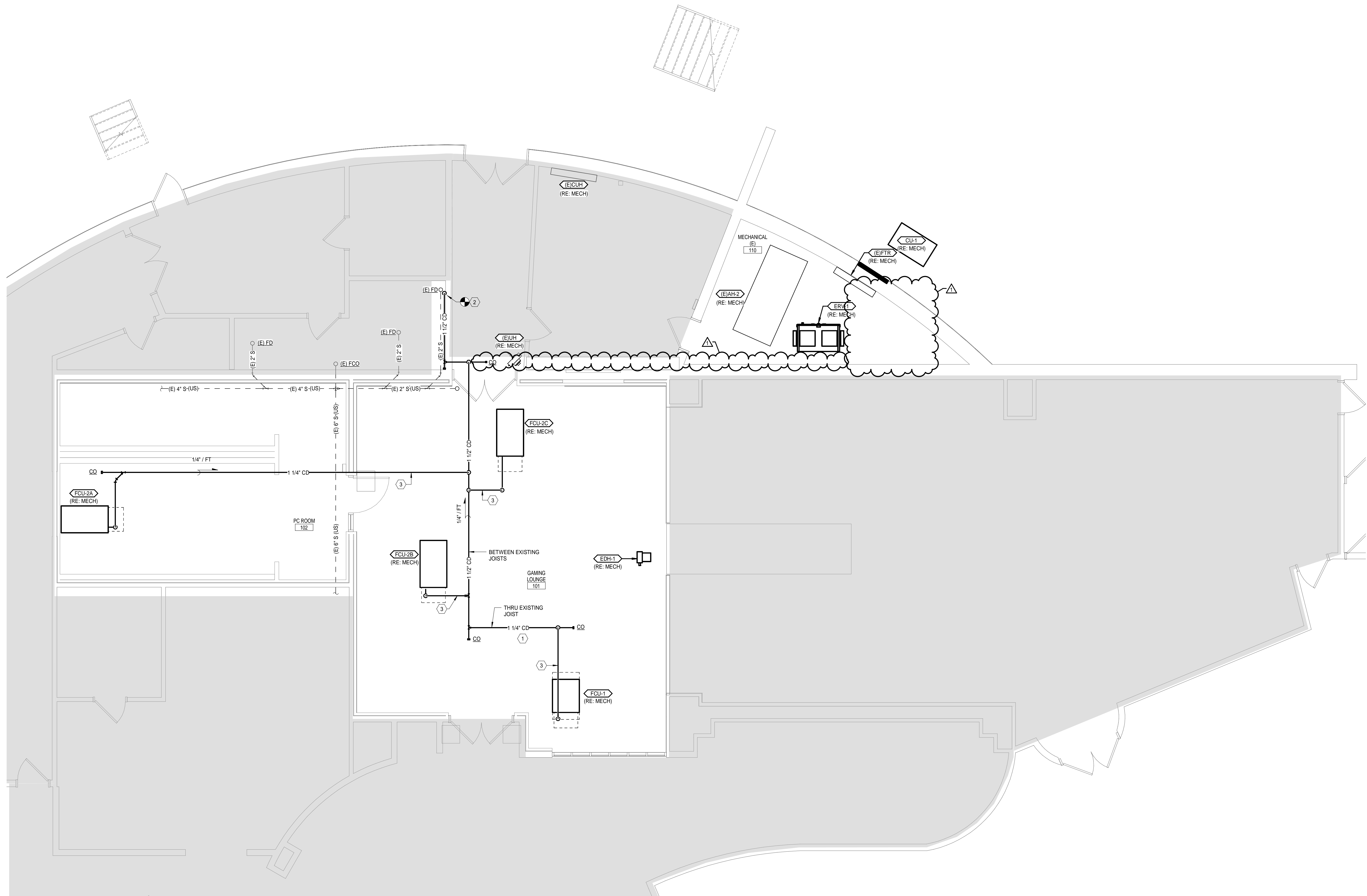


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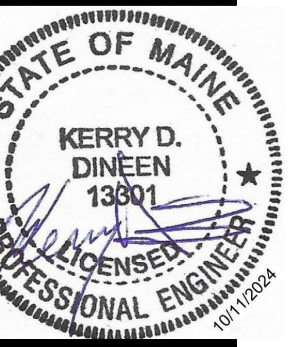
- SEE SHEET P-001 AND P-002 FOR LEGEND AND GENERAL NOTES.

KEYNOTES

KEYNOTE	KEYNOTE DESCRIPTION
1	CONTRACTOR TO NOTIFY OWNER ABOUT CEILING DEMOLITION SCHEDULE.
2	1 1/2" CD DN ALONG WALL. SPILL INTO EXISTING FUNNEL DRAIN. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND COORDINATE EXACT TIE-IN POINT DURING CONSTRUCTION.
3	CONDENSATE DISCHARGE FROM INTEGRAL PUMP IN FAN COIL UNIT (SAME SIZE AS UNIT CONNECTION). LOCATE IN JOISTS SPACE TIGHT TO BOTTOM OF DECK.



KEY PLAN
N.T.S.



#	Description	Date
1	ADDENDUM 1	10/11/2024

ISSUED FOR BID/CONSTRUCTION

SEPTEMBER 17, 2024

SHEET TITLE:

PLUMBING DWV PIPING PLAN

Original drawing is 36" x 48" - DO NOT SCALE CONTENTS OF THIS DRAWING.
Sheet is intended to be printed in color.
SCALE: AS INDICATED | DESIGNED BY: KDD
SMRT PROJECT #: 23101 | DRAWN BY: ERB

PL101

1 LEVEL 1 - PLUMBING PLAN
1/4" = 1'-0"

PRE-BID VISIT SIGN IN SHEET

USM Esports Arena | 09/25/24

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Exterior access to Mech/Elec Room - Basement













Interior views of Mech/Elec Room



Interior view of Corridor to Storage Room – Ground Floor





Interior views of Storage Room – Ground Floor