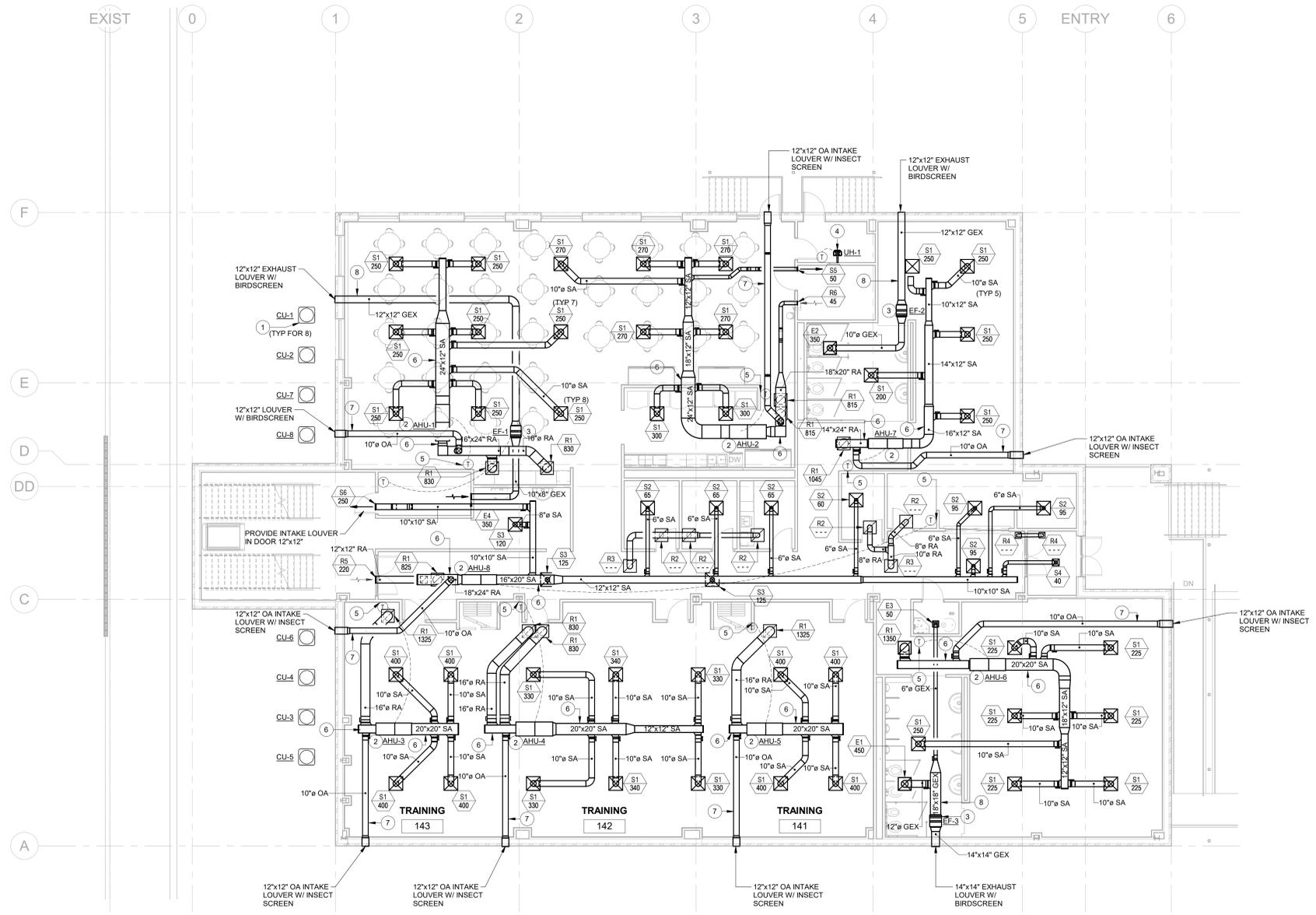


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1 MECHANICAL FIRST FLOOR PLAN
1/8" = 1'-0"



KEYED NOTES

MARK	COMMENT
1	PROVIDE AND INSTALL AIR-COOLED CONDENSING UNIT WITH R-410A REFRIGERANT, CONDENSER GUARDS, LOW AMBIENT CONTROL, AND ALL ASSOCIATED APPURTENANCES COMPLETE. MOUNT ON 4" CONCRETE HOUSEKEEPING PAD AND MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. SEE MECHANICAL SCHEDULE/DETAIL SHEETS.
2	PROVIDE AND INSTALL LP GAS FURNACE WITH DIRECT EXPANSION (DX) COOLING COIL ASSEMBLY COMPLETE WITH ALL HANGERS AND SUPPORTS. PROVIDE EMERGENCY DRAIN PAN WITH MOISTURE SENSOR BELOW COOLING COIL. SEE MECHANICAL SCHEDULE/DETAIL SHEETS.
3	PROVIDE AND INSTALL IN-LINE EXHAUST FAN COMPLETE WITH HANGERS, SUPPORTS AND ALL ASSOCIATED APPURTENANCES. SUSPEND WITH 4-POINT VIBRATION ISOLATION SPRINGS. TERMINATE AS INDICATE ON PLAN.
4	PROVIDE AND INSTALL ELECTRIC UNIT HEATER WITH UNIT-MOUNTED OR WALL-MOUNTED THERMOSTAT AS INDICATED. MOUNT APPROX. 9'-0" FROM BOTTOM OF ELECTRIC HEATER TO FINISHED FLOOR. SUSPEND FROM WALL. SEE MECHANICAL SCHEDULE/DETAIL SHEETS.
5	PROVIDE AND INSTALL WALL-MOUNTED THERMOSTAT. CONDUIT AND CONTROL WIRING COMPLETE. MOUNT 48" AFF.
6	PROVIDE AND INSTALL GALVANIZED EXTERNALLY INSULATED, LOW PRESSURE, SUPPLY/RETURN DUCTWORK COMPLETE WITH SUPPORTS, HANGERS AND ALL ASSOCIATED APPURTENANCES.
7	PROVIDE AND INSTALL GALVANIZED EXTERNALLY INSULATED, LOW PRESSURE, OUTSIDE AIR DUCTWORK COMPLETE WITH SUPPORTS, HANGERS AND ALL ASSOCIATED APPURTENANCES.
8	PROVIDE AND INSTALL UN-INSULATED GENERAL EXHAUST DUCTWORK COMPLETE WITH HANGERS, SUPPORTS AND ALL ASSOCIATED APPURTENANCES. RUN CONCEALED IN PLENUM. GENERAL EXHAUST DUCTWORK TO BE OF NON-COMBUSTIBLE GALVANIZED STEEL SHEET METAL CONSTRUCTION.



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**FRITO-LAY
LIBERTY
PLANT**

PLANT ADDITION
89 MILL ST
LIBERTY, NY 12754

Project Number: 2021-213
Drawing Date: 17 AUG 2022
Drawn: CBC
Checked: MTS
Scale: 1/8" = 1'-0"

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Revisions:

#	Revision Date	Revision Description
1	17 AUG 2022	ISSUE FOR PERMIT
2	02 SEPT 2022	OWNER REVIEW

Sheet Title:
**MECHANICAL
FIRST FLOOR PLAN**



M2.01



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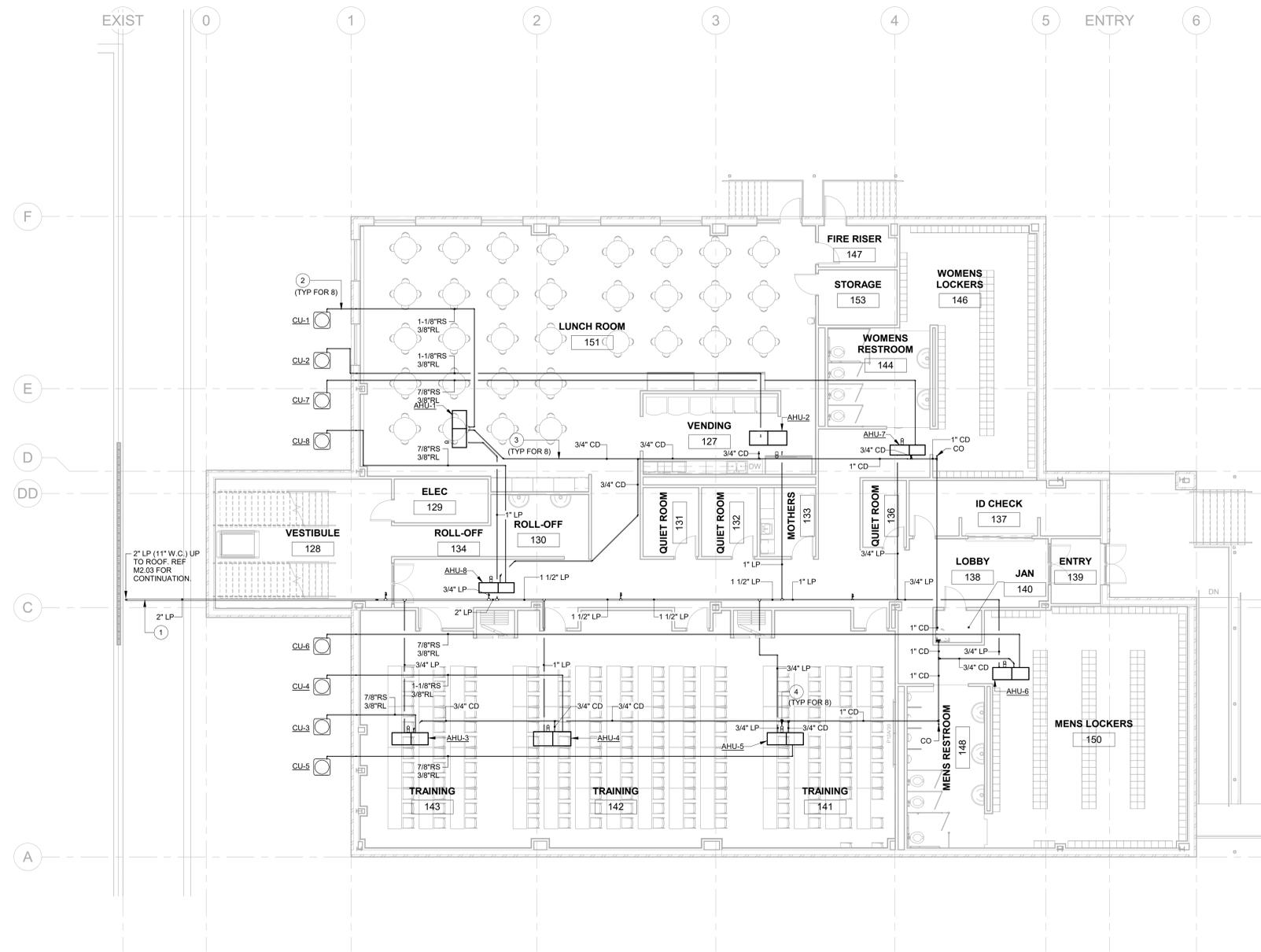
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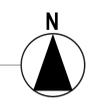
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KEYED NOTES

MARK	COMMENT
1	PROVIDE AND INSTALL LIQUID PROPANE (LP) GAS PIPING, HANGERS AND SUPPORTS COMPLETE (MAX 5'-0" O.C). PERFORM WORK SO AS NOT TO VOID EXISTING ROOF WARRANTY. ROUTE AS INDICATED. ENSURE MAINTENANCE ACCESS IS MAINTAINED.
2	PROVIDE AND INSTALL INSULATED REFRIGERANT SUCTION LINE, LIQUID LINE AND SUPPORTS COMPLETE. SIZE RS/RL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ROUTE RS/RL UP TO ABOVE CEILING SPACE THROUGH EXTERIOR WALL CAVITY AND TO ASSOCIATED AIR HANDLING UNITS.
3	PROVIDE AND INSTALL PVC CONDENSATE DRAIN PIPING AND SUPPORTS. ROUTE AS INDICATED. INTERIOR LOCATIONS SHALL BE INSULATED. PROVIDE CONDENSATE DRAIN TRAP AT COOLING COILS. SLOPE DRAINS A MINIMUM OF 1/8" PER LINEAR FOOT TOWARD DISCHARGE. TERMINATE DRAINS 2" ABOVE RIM OF SINK IN JANITOR CLOSET.
4	PROVIDE AND INSTALL CONCENTRIC FLUE VENT KIT PER MANUFACTURER'S RECOMMENDATIONS. REFERENCE ROOF PLAN FOR TERMINATION.



1 MECHANICAL PIPING FIRST FLOOR PLAN
1/8" = 1'-0"



FRITO-LAY LIBERTY PLANT

PLANT ADDITION
89 MILL ST
LIBERTY, NY 12754

Project Number: 2021-213
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Revisions:

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2	02 SEPT 2022	OWNER REVIEW

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**MECHANICAL
PIPING FIRST
FLOOR PLAN**

M2.02

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2	PROVIDE AND INSTALL 10 PSIG TO ADJUSTABLE 7" TO 11" W.C. VENTED PRESSURE REGULATOR, GAS COCK AND ISOLATION VALVES.
3	PROVIDE AND INSTALL CONCENTRIC FLUE VENT KIT PER MANUFACTURER'S RECOMMENDATIONS. REFERENCE ROOF PLAN FOR TERMINATION.



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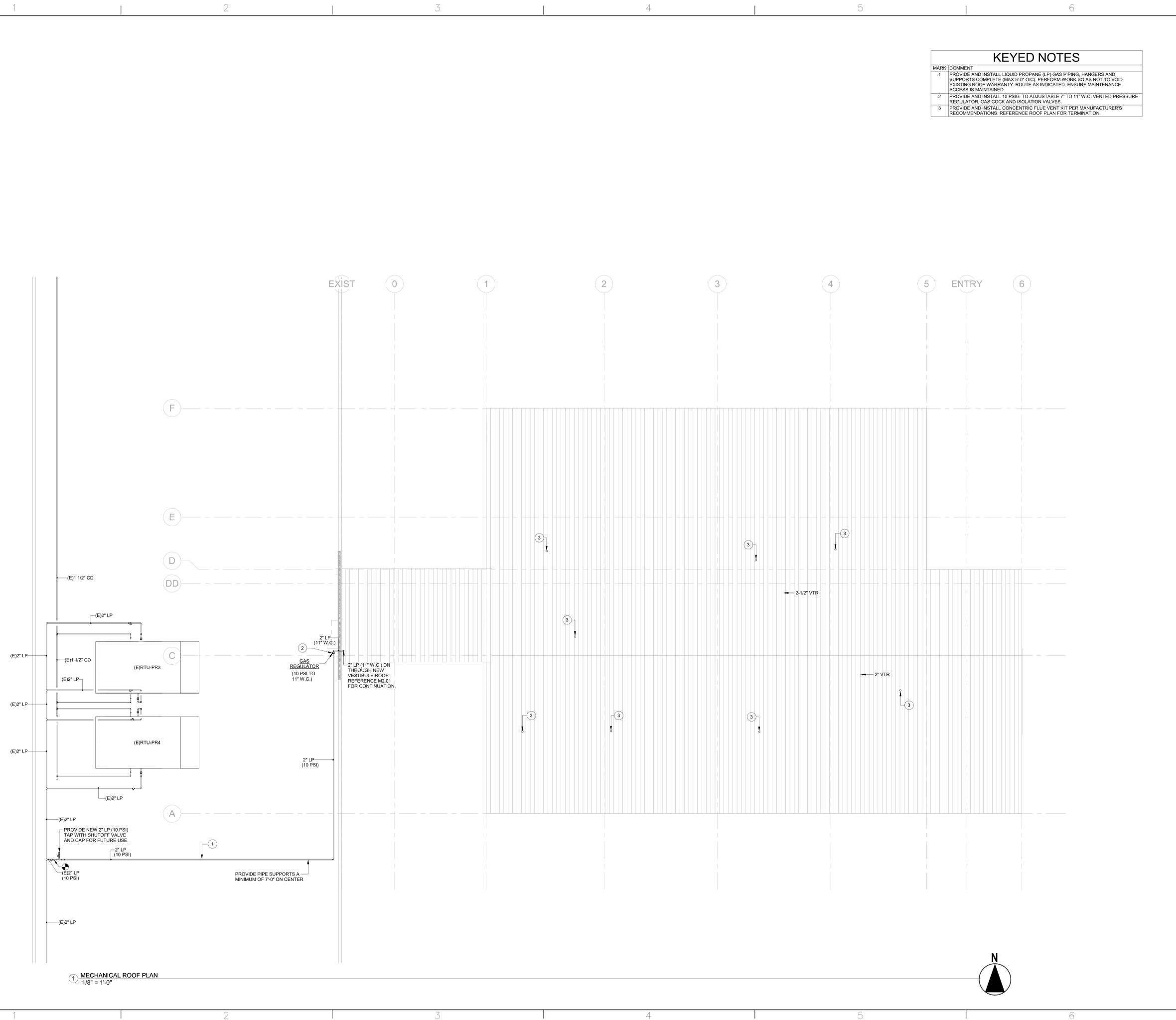
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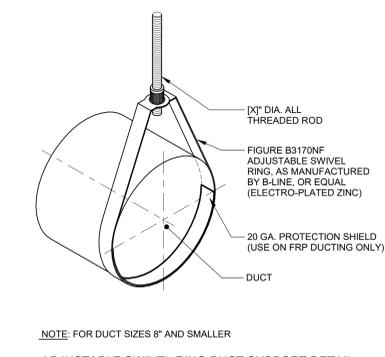
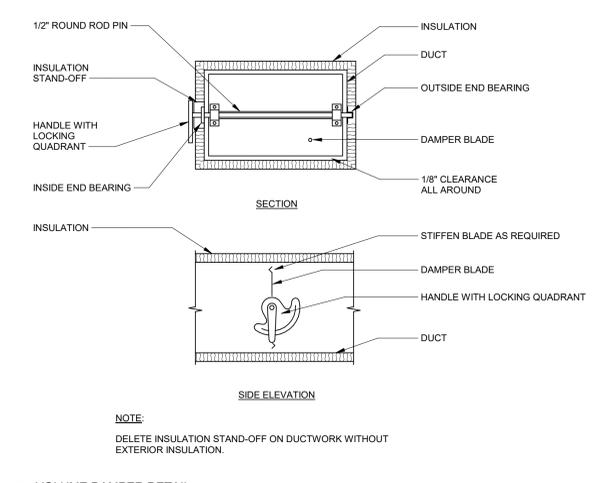
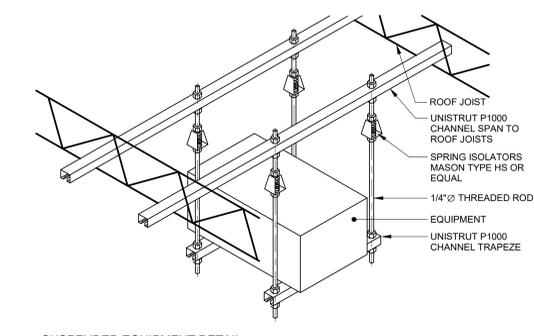
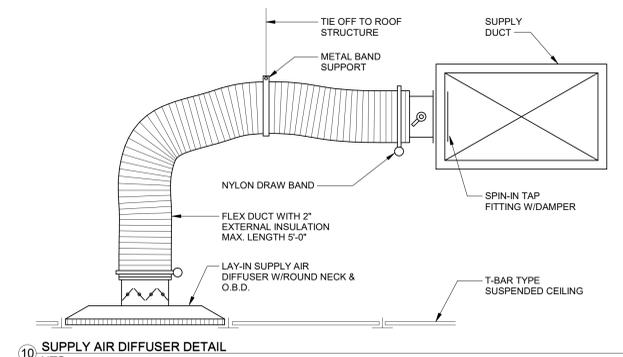
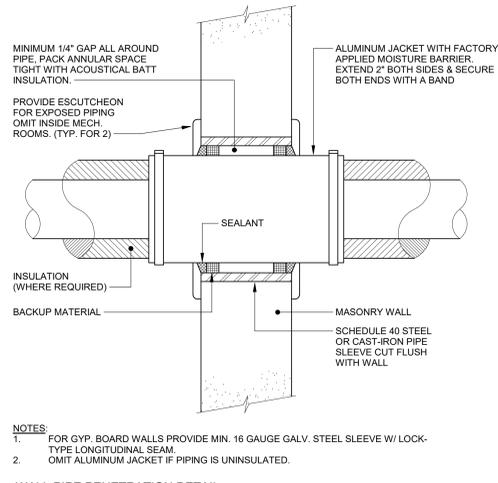
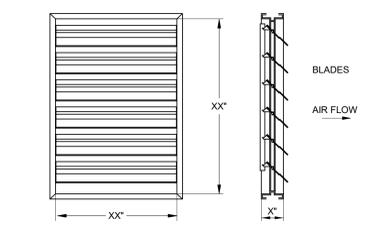
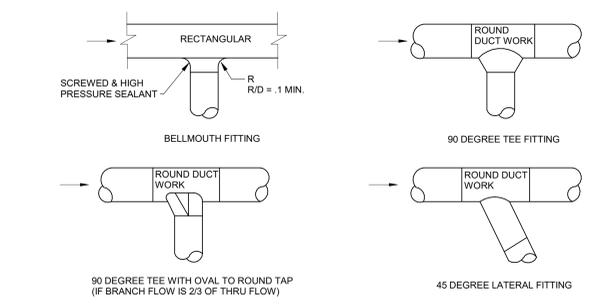
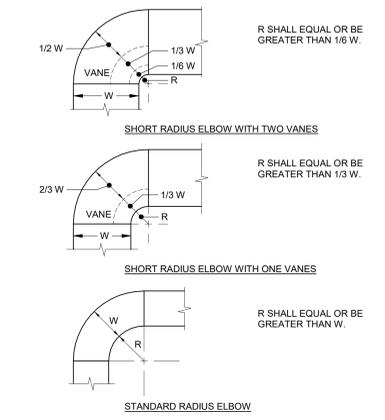
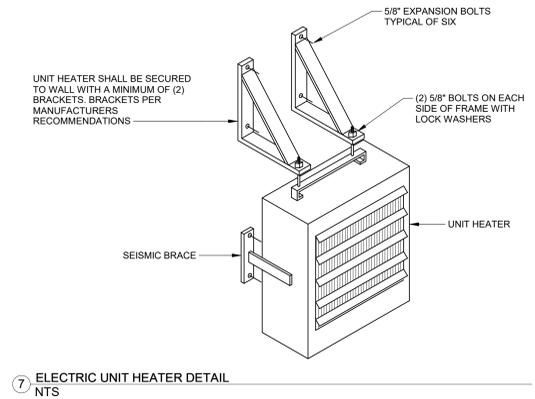
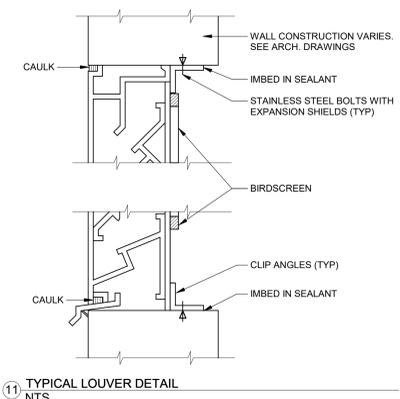
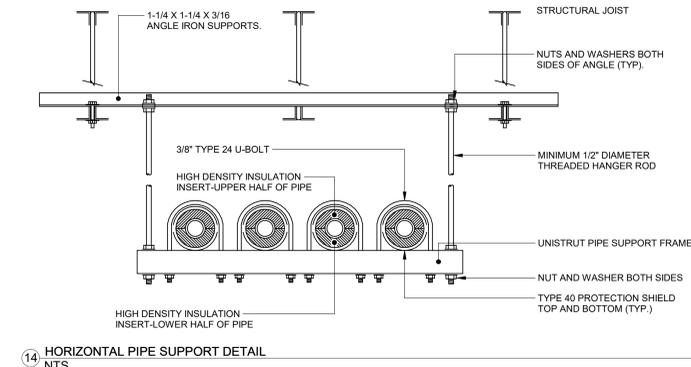
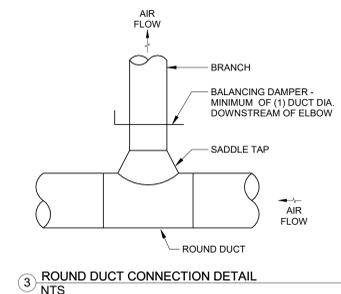
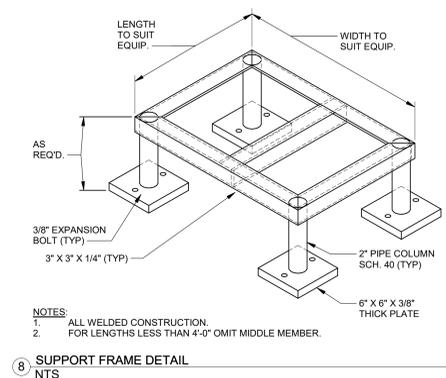
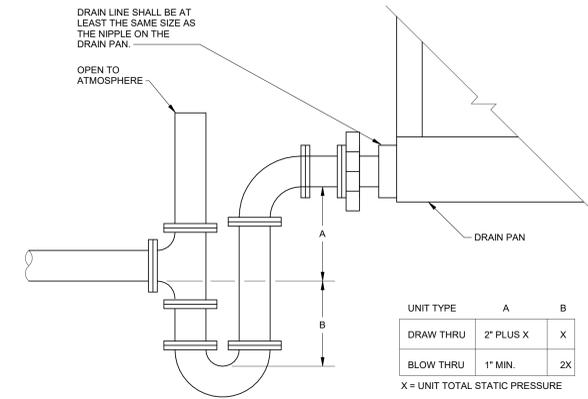
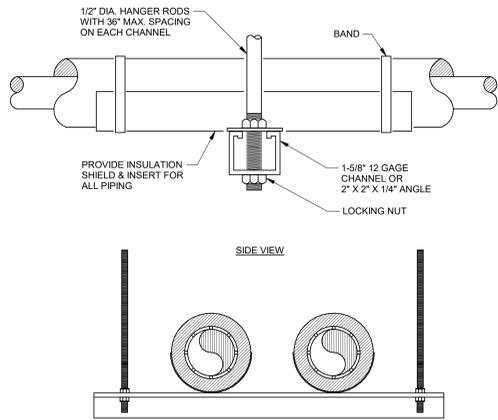
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2	02 SEPT 2022	OWNER REVIEW

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**MECHANICAL
ROOF PLAN**

M2.03



1 MECHANICAL ROOF PLAN
1/8" = 1'-0"



SPLIT SYSTEM AIR CONDITIONER SCHEDULE - (DX COOLING / LP GAS HEATING)																													
TAG	SERVES	CONDENSING UNIT										FURNACE										DX COIL				REMARKS			
		TOTAL CAP (MBH)	SENSIBLE CAP (MBH)	COOLING STAGES	REFRIGERANT SIZES (RS / RL)	WEIGHT	VOLTS	PHASE	MCA	MOCP	MODEL	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	ESP (IN WG)	INPUT MBH	OUTPUT MBH	TEMP RISE RANGE	AFUE	HEATING STAGES	FURNACE WEIGHT	VOLTS	PHASE	MCA	MOCP	MODEL		WEIGHT	MODEL	MANUFACTURER
CJ-1	LUNCH ROOM	63.0	48.5	1	1-1/8" / 3/8"	218	460	3	10.7	15	TSAD060S4	2,000	340	0.5	132	106	35-65F	80%	2	188	120	1	<12	15	EL280UH-135P60D	76	CX34-62D-6F	LENNOX	SEE NOTES
CJ-2	LUNCH ROOM/VENDING	63.0	48.5	1	1-1/8" / 3/8"	218	460	3	10.7	15	TSAD060S4	2,000	325	0.5	132	106	35-65F	80%	2	188	120	1	<12	15	EL280UH-135P60D	76	CX34-62D-6F	LENNOX	SEE NOTES
CJ-3	TRAINING WEST	50.0	40.0	1	7/8" / 3/8"	194	460	3	8.8	15	TSAD48S4	1,600	275	0.5	110	86	35-65F	80%	2	161	120	1	<12	15	EL280UH-110P48C	72	CX34-49C-6F	LENNOX	SEE NOTES
CJ-4	TRAINING MID	63.0	48.5	1	1-1/8" / 3/8"	218	460	3	10.7	15	TSAD060S4	2,000	335	0.5	132	106	35-65F	80%	2	188	120	1	<12	15	EL280UH-135P60D	76	CX34-62D-6F	LENNOX	SEE NOTES
CJ-5	TRAINING EAST	50.0	40.0	1	7/8" / 3/8"	194	460	3	8.8	15	TSAD48S4	1,600	280	0.5	110	86	35-65F	80%	2	161	120	1	<12	15	EL280UH-110P48C	72	CX34-49C-6F	LENNOX	SEE NOTES
CJ-6	MEN'S LOCKER/RR	50.0	40.0	1	7/8" / 3/8"	194	460	3	8.8	15	TSAD48S4	1,600	250	0.5	110	86	35-65F	80%	2	161	120	1	<12	15	EL280UH-110P48C	72	CX34-49C-6F	LENNOX	SEE NOTES
CJ-7	WOMEN'S LOCKER/RR	36.8	29.1	1	7/8" / 3/8"	135	460	3	7.8	15	TSAD36S4	1,200	155	0.5	88	70	35-65F	80%	2	141	120	1	<12	15	EL280UH-090P36BE	51	CX34-38B-6F	LENNOX	SEE NOTES
CJ-8	CENTRAL CORRIDOR	36.8	29.1	1	7/8" / 3/8"	135	460	3	7.8	15	TSAD36S4	1,200	155	0.5	88	70	35-65F	80%	2	141	120	1	<12	15	EL280UH-090P36BE	51	CX34-38B-6F	LENNOX	SEE NOTES

- MOUNT CONDENSING UNITS ON 4-INCH THICK CONCRETE HOUSEKEEPING PADS. MOUNT INDOOR AIR HANDLING UNITS FROM STRUCTURE ABOVE WITH SPRING ISOLATOR HANGERS.
- PROVIDE DUCT SMOKE DETECTORS IN RETURN AIR SECTION ON ALL AIR HANDLING UNITS AND TIE INTO BUILDING FIRE ALARM SYSTEM. UPON DETECTION OF SMOKE IN THE RETURN AIR, THE UNIT SHALL SHUT DOWN.
- PROVIDE MANUFACTURER'S SMART THERMOSTAT WITH AUTO-CHANGEOVER. UNIT FANS SHALL RUN CONTINUOUSLY TO PROVIDE APPROPRIATE OUTSIDE AIR TO THE SPACE. COMPRESSORS SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE SETPOINTS OF 75F COOLING AND 70F HEATING.
- MAINTAIN MANUFACTURER'S SERVICE CLEARANCES FOR CONDENSING UNITS, FURNACES AND COOLING COILS.
- PROVIDE CONCENTRIC VENT KIT FLUE DUCT FOR EACH FURNACE AND ROUTE UP THROUGH ROOF. FLASH ROOF WATER-TIGHT AT EACH ROOF PENETRATION.
- PROVIDE 2" DEEP EMERGENCY DRAIN PAN BELOW COOLING COIL. EXTEND PAN 2" ON ALL DIMENSIONS OF COOLING COIL AND PROVIDE WITH MOISTURE SENSOR TO SHUTOFF UNIT ON DETECTION OF OVERFLOW CONDENSATE.

EXHAUST FAN SCHEDULE												
TAG	LOCATION	FAN TYPE	CFM	ESP (IN WG)	DRIVE	HP	VOLTS	PHASE	BASIS OF DESIGN		REMARKS	
									MANUFACTURER	MODEL NO		
EF-1	ELECTRICAL ROOM	CENTRIFUGAL SQUARE INLINE	350	0.5	DIRECT	1/8	120	1	LOREN COOK	120SON11D OR91	SEE NOTES	
EF-2	WOMEN'S LOCKER/RR	CENTRIFUGAL SQUARE INLINE	350	0.5	DIRECT	1/8	120	1	LOREN COOK	120SON11D OR91	SEE NOTES	
EF-3	MEN'S LOCKER/RR	CENTRIFUGAL SQUARE INLINE	475	0.5	DIRECT	1/8	120	1	LOREN COOK	135SON11D OR91	SEE NOTES	

- MOUNT EXHAUST FANS FROM STRUCTURE ABOVE AND PROVIDE WITH SPRING ISOLATOR SUPPORTS.
- EF-1 SHALL BE PROVIDED WITH A ROOM THERMOSTAT TO ENERGIZE FAN ONCE SPACE TEMPERATURE REACHES 80F AND SHALL DE-ENERGIZE UPON A SPACE TEMPERATURE OF 78F.
- EF-2 AND EF-3 SHALL RUN CONTINUOUSLY.

UNIT HEATER SCHEDULE - ELECTRIC									
TAG	KW	CFM	ELECTRICAL DATA	BASIS OF DESIGN		REMARKS			
				VOLTS / PHASE	MANUFACTURER / MODEL NO				
UH-1	3.0	350	480 / 3	QMARK	MUH0341-PRO	SEE NOTES			

- MOUNT UNIT HEATER FROM WALL WITH MANUFACTURER'S WALL MOUNT.
- UNIT HEATER SHALL BE PROVIDED WITH SPACE THERMOSTAT TO MAINTAIN AT LEAST 45F.

GRILLE, REGISTER & DIFFUSER SCHEDULE									
TAG	TYPE	SERVICE	CFM RANGE	NECK SIZE	MAX PD	MANUFACTURER/ MODEL NO	DESCRIPTION	REMARKS	
S1	CEILING DUCTED	SUPPLY	AS NOTED	10"ø	0.1	PRICE / ASCD	24"x24" SQUARE CONE DIFFUSER	SEE NOTES	
S2	CEILING DUCTED	SUPPLY	AS NOTED	6"ø	0.1	PRICE / ASCD	24"x24" SQUARE CONE DIFFUSER	SEE NOTES	
S3	CEILING DUCTED	SUPPLY	AS NOTED	8"ø	0.1	PRICE / ASCD	24"x24" SQUARE CONE DIFFUSER	SEE NOTES	
S4	CEILING DUCTED	SUPPLY	40	6"ø	0.1	PRICE / ASCD	12"x12" SQUARE CONE DIFFUSER	SEE NOTES	
S5	SIDEWALL	SUPPLY	50	6"x6"	0.1	PRICE / 610	SIDEWALL LOUVERED GRILLE	SEE NOTES	
S6	SIDEWALL	SUPPLY	250	10"x10"	0.1	PRICE / 610	SIDEWALL LOUVERED GRILLE	SEE NOTES	
R1	CEILING DUCTED	RETURN	AS NOTED	10"ø	0.1	PRICE / 630	24"x24" RETURN EXHAUST LOUVERED GRILLE	SEE NOTES	
R2	CEILING DUCTED	RETURN	AS NOTED	8"ø	0.1	PRICE / 630	24"x24" RETURN EXHAUST LOUVERED GRILLE	SEE NOTES	
R3	CEILING DUCTED	RETURN	AS NOTED	10"ø	0.1	PRICE / 630	24"x24" RETURN EXHAUST LOUVERED GRILLE	SEE NOTES	
R4	CEILING DUCTED	RETURN	AS NOTED	6"ø	0.1	PRICE / 630	12"x12" RETURN EXHAUST LOUVERED GRILLE	SEE NOTES	
R5	SIDEWALL	RETURN	220	12"x12"	0.1	PRICE / 630	SIDEWALL RETURN EXHAUST LOUVERED GRILLE	SEE NOTES	
R6	SIDEWALL	RETURN	45	6"x6"	0.1	PRICE / 630	SIDEWALL RETURN EXHAUST LOUVERED GRILLE	SEE NOTES	
E1	CEILING DUCTED	EXHAUST	450	12"ø	0.1	PRICE / 630	24"x24" RETURN EXHAUST LOUVERED GRILLE	SEE NOTES	
E2	CEILING DUCTED	EXHAUST	350	10"ø	0.1	PRICE / 630	24"x24" RETURN EXHAUST LOUVERED GRILLE	SEE NOTES	
E3	CEILING DUCTED	EXHAUST	50	6"ø	0.1	PRICE / 630	12"x12" RETURN EXHAUST LOUVERED GRILLE	SEE NOTES	
E4	SIDEWALL	EXHAUST	350	10"x8"	0.1	PRICE / 630	SIDEWALL RETURN EXHAUST LOUVERED GRILLE	SEE NOTES	

- PROVIDE ALUMINUM CONSTRUCTION ON ALL GRID.
- PROVIDE OPPOSED BLADE DAMPERS ON ALL SIDEWALL GRILLES AND REGISTERS.



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FRITO-LAY
LIBERTY
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89 MILL ST
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Project Number: 2021-213
Drawing Date: 17 AUG 2022
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Sheet Title:
**MECHANICAL
SCHEDULES**

M5.00