1.	ECHANICAL GENERAL NUIES	
	ALL WORK AND MATERIALS SHALL BE PURCHASED AND INSTALLED IN ACCORDANCE WITH ALL NATIONAL & NEW YORK STATE CODES AND REGULATIONS (AS WELL AS ALL APPLICABLE LOCAL CODES & REGULATIONS). THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL HVAC WORK	 CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION OF MECH EQUIPMENT AND MATERIAL RELATING TO THEIR RESPECTIVE TRADE THE CONTRACTOR SHALL REMOVE, RELOCATE, REPLACE, ADJUST
	IS PROVIDED AND INSTALLED IN STRICT ACCORDANCE WITH SEISMIC REQUIREMENTS.	MODIFY EXISTING EQUIPMENT AND/OR SYSTEMS AS REQUIRED WHE UNCOVERED AND FOUND TO INTERFERE WITH COMPLETION OF WOF CONTRACT OR OTHER CONTRACT WORK.
-	DO NOT SCALE FROM THESE DRAWINGS.	3. EXECUTE THE DEMOLITION IN CAREFUL AND ORDERLY MANNER W POSSIBLE DISTURBANCE TO THE PUBLIC, EGRESS OR THE FUNCTION
S E S H	HALL BE FIELD VERIFIED AND COORDINATED WITH ALL OTHER MECHANICAL, LECTRICAL, PLUMBING, FIRE SPRINKLER, ARCHITECTURAL AND STRUCTURAL YSTEMS. DURING SHOP DRAWINGS SUBMISSIONS, SHOW ALL MOUNTING IEIGHTS OF DUCTWORK, UNITS, ETC.	EXISTING BUILDING. 4. TAKE NECESSARY PRECAUTIONS TO PREVENT DUST AND DIRT FR WETTING DEMOLISHED DEBRIS. EXCESSIVE USE OF WATER WILL NO
V	ERIFY ALL EQUIPMENT VOLTAGES WITH THE ELECTRICAL DESIGN PRIOR TO	5. PRIOR TO DEMOLITION, CONTRACTOR SHALL REVIEW WITH OWNE TO BE REMOVED, SHOULD THE OWNER WANT TO KEEP ANY MATERIA
F	PROVIDE PHASE LOSS PROTECTION FOR ALL POLY-PHASE MOTOR DEVICES.	CONTRACTOR SHALL REMOVE AND DELIVER THE PARTS TO THE OWN WHERE SO DIRECTED. OTHERWISE ALL DEMOLISHED OR REMOVED BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMO SITE AND BE DISPOSED OF IN A LEGAL MANNER.
COMI GUID LONC "DUC	PLIANCE WITH THE LATEST EDITION OF THE ASHRAE, NFPA, AND SMACNA E RECOMMENDATIONS. ALL DUCTS TO HAVE PITTSBURGH TYPE LOCK FOR GITUDINAL SEAMS AND DRIVE SLIP / "S" SLIP FOR TRANSVERSE JOINTS. T-MATE" JOINT SYSTEM IS ACCEPTABLE IN LIEU OF PRIOR SEAM SYSTEMS.	6. DEMOLITION SHALL INCLUDE REMOVAL OF ALL PARTS AND PIECES ENTIRETY BACK TO POINTS INDICATED OR IF NOT INDICATED BACK TO THEIR POINT OF SOURCE.
SIZE: DUCI WRIT	S AS SHOWN INDICATE INSIDE CLEAR DIMENSIONS OF THE AIR PASSAGE. WORK SHALL BE FULLY INSULATED AS PER APPLICABLE CODES AND TEN SPECIFICATIONS.	7. WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, TH PORTION SHALL BE CUT FLUSH WITH THE SURROUNDING SURFACE A PLUGGED OR SEALED AND THE SURROUNDING SURFACE SHALL BE F
DU FAI CO MA TO RE	CT SIZES MUST BE VERIFIED FOR CLEARANCES AT THE JOB SITE PRIOR TO BRICATION. DIMENSIONS MAY BE CHANGED TO ACCOMMODATE INSTRUCTION AS LONG AS EFFECTIVE CROSS-SECTIONAL AREA IS INTAINED. DUCT TRANSITIONS SHALL BE CONSTRUCTED WITH A SLOPE OF 1" 4". ALL DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE INTEWED BY ENGINEER DURING THE SHOP DRAWING PROCESS.	9. DO NOT REMOVE EXISTING STRUCTURAL WORK. DO NOT REMOVE OPERATIONAL ELEMENTS AND SAFETY-RELATED COMPONENTS IN A MANNER RESULTING IN A REDUCTION OF CAPACITIES TO PERFORM I INTENDED OR RESULTING IN DECREASED OPERATIONAL LIFE, INCRE
PRO EAC BAL MIN MAI	DVIDE MANUAL BALANCING DAMPERS AS REQUIRED TO PROPERLY BALANCE CH INDIVIDUAL AIR DISTRIBUTION SYSTEM. IF THE LOCATION OF THE ANCING DAMPER IS NOT DEFINED ON THE DRAWINGS, THE FOLLOWING IMUMS STANDARDS SHALL GOVERN. ALL SUPPLY, RETURN, AND EXHAUST N BRANCHES FROM TRUNKS, EACH SPLIT AND ALL SUB- BRANCHES FROM	10. REMOVALS, DISCONNECTIONS, AND RELOCATIONS SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SI BY A CONTRACTOR LICENSED IN THE TRADE INVOLVED. ALL WORK S ACCORDANCE WITH ACCEPTED TRADE PRACTICES.
F	PROVIDE FLEXIBLE CONNECTORS AT ALL DUCT CONNECTIONS TO VIBRATING	11. PROVIDE ADEQUATE TEMPORARY SUPPORT FOR WORK TO REMA FAILURE. DO NOT ENDANGER OTHER WORK.
ET PPS	QUIPMENT. THESE CONNECTORS SHALL BE INSTALLED IN CLOSE PROXIMITY O SUCH EQUIPMENT. ROVIDE FIRE DAMPERS WITH RATED ACCESS DOORS AT ALL DUCT ENETRATIONS THROUGH FIRE RATED WALLS, SMOKE AND FIRE STOPPING, HAFT FLOORS RATED CEILINGS AND PARTITIONS AS REQUIRED TO MAINTAIN	12. PROTECTION: PROVIDE ADEQUATE PROTECTION WHERE REQUID PRESENT BUILDING AND ITS CONTENTS. TEMPORARY DUSTPROOF B BARRICADES SHALL BE ERECTED WHERE REQUIRED FOR PROTECTION PROTECTION FROM DUST AND DIRT, FOR SECURITY, FIRE AND WEATHER PROTECTIVE REASONS.
AF SF CC DF	CHITECTURAL FIRE RATINGS. REFER TO THE ARCHITECTURAL PLANS AND ECIFICATIONS FOR LOCATIONS AND FIRE RATING REQUIREMENTS. ONTRACTOR MUST FULLY REVIEW ALL ARCHITECTURAL AND ENGINEERING RAWINGS AND VISIT THE SITE PRIOR TO SUBMITTING THE BID. NO EXTRAS	13. CONTRACTOR SHALL TAKE EVERY PRECAUTION AGAINST FIRE BY DEPARTMENT TYPE HOSES AND PORTABLE FIRE EXTINGUISHERS AS OSHA AND/OR THE OWNER'S INSURANCE UNDERWRITER.
ALL	ACCESS DOORS REQUIRED IN GENERAL CONSTRUCTION ARE TO BE VIDED AND INSTALLED BY THE CONTRACTOR. IT IS THE RESPONSIBILITY THE CONTRACTOR TO IDENTIFY SIZE, TYPE AND LOCATION OF SUCH DOORS	14. BEFORE STARTING DEMOLITION OPERATIONS, PROVIDE THE NECESSARY PROTECTIVE DEVICES, WHERE REQUIRED, AND IN STRIC WITH OSHA RULES AND REGULATIONS.
FOF OTI REC FAE	R PROPER ACCESS TO ALL CONCEALED HVAC EQUIPMENT, VALVES AND HER RELATED EQUIPMENT. THE CONTRACTOR SHALL IDENTIFY THESE QUIREMENTS ON A COORDINATED SHOP DRAWING PRIOR TO SYSTEM BRICATION AND INSTALLATION.	14. USE TEMPORARY ENCLOSURES, OR OTHER SUITABLE METHODS DIRT RISING AND SCATTERING TO LOWEST PRACTICAL LEVEL. COMP GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTE
all Bui Hai Ad	- CEILING MOUNTED EQUIPMENT MUST BE SUPPORTED DIRECTLY FROM ILDING STRUCTURE WITH COMBINATION SPRING AND NEOPRENE-IN-SHEAR NGERS AND ROD. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED TO EQUATELY SUPPORT THE LOAD.	 15. FIELD VERIFY DEMOLITION REQUIREMENTS AND EXISTING CONDINOTES ARE INDICATED IN NOTE FORM. 16. CONTRACTOR SHALL ESTABLISH A PATH OF TRAVEL AND TIME SCREMOVAL OF ALL DEBRIS AND WASTE, AND HAVE THIS APPROVED B
THE C BALAN ASSO	CONTRACTOR MUST CONTRACT AN INDEPENDENT NEBB CERTIFIED AIR NCING & TESTING COMPANY TO PERFORM THE AIR BALANCING WORK AND CIATED SYSTEM AIR BALANCING REPORT. ALL WORK SHALL BE	CONTRACTOR IS TO ENSURE THAT ALL CORRIDORS AND PUBLIC ARE OF OBSTRUCTIONS, DEBRIS, AND ARE TO BE BROOM SWEPT CLEAN 17. CONTRACTOR SHALL VISIT THE SITE AND BECOME INFORMED AS OF THE PREMISES AND THE EXTENT AND CHARACTER OF WORK RE
REC BAL SUE OW RE	GULATIONS, PLANS AND WRITTEN SPECIFICATIONS. SUBMIT THE FINAL AIR ANCE REPORT TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BSTANTIAL COMPLETION OF THE PROJECT, AS DETERMINED BY THE AND VIER/CLIENT. THE AIR BALANCE REPORT MUST INCLUDE ALL SUPPLY, FURN, & EXHAUST AIR TERMINALS, FRESH AIR (OUTSIDE AIR) INTAKE AND DITUATION EXHAUST CEM PATES FOR ALL UNITS. ALSO INCLUDE ACTUAL	ADDITIONAL COMPENSATION WILL BE APPROVED DUE TO FIELD CON NYSECC ENERGY COMPLI
	SUPPLY & RETURN AIR VELOCITY & STATIC PRESSURE READINGS ALONG WITH ALL MOTOR AMPERAGES FOR ALL UNITS.	STATEMENT:
	THE CONTRACTOR IS TO INCLUDE IN THEIR BID ALL LOW VOLTAGE CONTROL WIRING, THERMOSTATS, RELAYS, TRANSFORMERS, STARTERS ETC FOR A COMPLETE OPERATING CONTROL SYSTEM AS DESCRIBED IN THE SEQUENCE OF OPERATIONS, THE CONTRACTOR IS ALSO RESPONSIBLE FOR LINE VOLTAGE CONTROL FOR EXHAUST FANS CONTROLLED FROM LIGHT SWITCH AND THERMOSTATS ALL CONTROL WIRING IN THE AREAS THAT DO NOT HAVE	PER SECTION C101.7 OF THE 2020 NYSECC HISTORIC BUILDINGS ARI THE REQUIREMENTS OF THE ENERGY CODE.
DI C(C/	ROPPED CEILINGS THE CONTRACTOR MUST PROVIDE ALL CONTROL WIRING ONDUIT. IN AREAS OF DROPPED CEILING PLENUM RATED CONTROL WIRING AN BE RUN EXPOSED ABOVE CEILING.	
	ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS/SPECIFICATIONS.	
	CODE REFERENCE	
20	NEW YORK STATE BUILDING CODE	

INFORMATION



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EXEMPT FROM

IDENTIFIER	DESCRIPTION
2 2	NEW DUCTWORK OR PIPING
<i>\$+++++++</i> \$	EXISTING DUCTWORK OR PIPING TO BE REMOVED
2	EXISTING DUCTWORK OR PIPING TO REMAIN
24X12 5 24X12 5 24X12 5 24X12 5 24X12 5 24X12	DOUBLE-LINE AND SINGLE-LINE RECTANGULAR DUCT, FIRST NUMBER INDICATES SIDE IN VIEW IN INCHES, SECOND NUMBER INDICATES SIDE IN DEPTH IN INCHES
	FLEXIBLE DUCTWORK
	REGULAR SUPPLY AIR DUCT (UP AND DOWN)
	REGULAR RETURN AIR DUCT (UP AND DOWN)
	REGULAR EXHAUST AIR DUCT (UP AND DOWN)
	REGULAR OUTSIDE AIR DUCT (UP AND DOWN)
'VD	VOLUME DAMPER
— — — BD	BACKDRAFT DAMPER
	MOTOR OPERATED DAMPER
XXX XX	— EQUIPMENT TAG — EQUIPMENT NUMBER
XXX X-XXX	 DETAIL TAG/CALL OUT TAG MECHANICAL SHEET NUMBER
T	THERMOSTAT
	EXHAUST GRILLE
(F#)	REFER TO SUPPLEMENTAL FIGURE INDICATED BY NUMBER (I.E. F2 REFERS TO FIGURE 2)

HVAC SYMBOL LIST

HVAC ABBREVIATIONS

IDENTIFIER	DESCRIPTION
AC	DIRECT EXPANSION AIR CONDITION UNIT
CFM	CUBIC FEET PER MINUTE
COND	CONDENSATE
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
DB	DRY BULB
DN	DOWN
EA	EXHAUST AIR
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EUH	ELECTRIC UNIT HEATER
EER	ENERGY EFFICIENCY RATIO
EG	EXHAUST GRILLE
FAI	FRESH AIR INTAKE
GC	GENERAL CONTRACTOR
MBH	THOUSAND BTU PER HOUR
PC	PLUMBING CONTRACTOR
RG	RETURN GRILLE
RGL	REFRIGERANT GAS LINE
RLL	REFRIGERANT LIQUID LINE
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SD	SUPPLY DIFFUSER
TYP.	TYPICAL
VIF	VERIFY IN FIELD

SCOPE OF WORK

DEMOLITION

- REMOVE TWO (2) EXISTING RANGE HOODS AS INDICATED.
- REMOVE TWO (2) EXISTING FLUES AS INDICATED. REMOVE TWO (2) EXISTING CEILING VENTILATION GRILLES AS INDICATED.
- 4. REMOVE ONE (1) EXISTING RELIEF VENT AS INDICATED.
- REMOVE TWO (2) EXISTING ROOFTOP FANS AND ASSOCIATED DUCTWORK, CONTROLS AND ACCESSORIES.

CONSTRUCTION

- PROVIDE ONE (1) NEW ROOFTOP AIR HANDLING UNIT RTU-1. PROVIDE
- DUCTWORK TO NEW SPACES AS INDICATED. 2. PROVIDE ONE (1) NEW OUTDOOR SPLIT CONDENSER AIR CONDITIONER UNIT
- AS INDICATED.
- 3. PROVIDE TWO (2) NEW CEILING RECESSED INDOOR AIR CONDITIONER UNITS AS INDICTED.
- 4. PROVIDE ONE (1) NEW PACKAGED TERMINAL AIR CONDITIONER UNIT AS INDICATED
- 5. PROVIDE ONE (1) NEW GENERAL KITCHEN/TRASH ROOM EXHAUST FAN ON ROOF AND ASSOCIATED DUCTWORK AS INDICATED.
- PROVIDE ONE (1) NEW ATTIC EXHAUST FAN AS INDICATED. 7. PROVIDE ONE (1) NEW WALL MOUNTED ELECTRIC UNIT HEATER AS
- INDICATED. 8. PROVIDE TWO (2) NEW RAIN RESISTANT LOUVERS AS INDICATED.

MECHANICAL VENTILATION SCHEDULE

SPACE DETAILS			MECH CODE REQUIREMENTS				DESIGN						
ROOM	AREA (FT²)	# PEOPLE	OA / SQ FT	OA PER PERSON	# OF FIXT (TOILET/URI NALS/SLOP SINK)	EXH CFM/SQFT	EXH CFWFIXTURE	NET OA	MIN DESIGN OA FLOW (CFM)	ACTUAL SA FLOW (CFM)	ACTUAL RA FLOW (CFM)	ACTUAL EA FLOW (CFM)	NOTES
105 KITCHEN	1347	27	0.12	7.5	-	0.7	-	9 4 3	1000	2400	1400	1000	1
102 DRY ROOM	67	-	0.12	-	-	-	-	8	100	100	-	100	1
IOTES:													

1. NEW YORK STATE MECHANICAL CODE.

NATURAL VENTILATION SCHEDULE

SPACE DE	DESIGN				
ROOM	AREA (SF)	4% FLOOR AREA (SF)	WINDOW FREE AREA (SF)	DOOR AREA (SF)	
101 SEASONAL FOOD SERVICE	343	14	-	156	
IOTES: . NEW YORK STATE MECHANICA	L CODE.				_

2. NATURAL VENTILATION OF AN OCCUPIED SPACE SHALL BE THROUGH WINDOWS, DOORS, LOUVERS, AND OTHER OPENINGS TO THE OUTDOORS. THE MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE 4 PERCENT OF THE FLOOR AREA BEING VENTILATED.

TABLE 1: ENERGY CODE ANALYSIS TABLE FOR MECHANICAL SYSTEMS

	(PER 2020 NYS ENERGY CODE)							
ITEM DESCRIPTION						CITATION		
	UNIT TAG	EQUIPMENT TYPE				onanon		
HVAC EQUIPMENT PERFORMANCE	RTU-1	SINGLE PACKAGED UNIT	SEER= 12.6	SEER=11.2	MINIMUM EFFICIENCY REQUIREMENTS: ELECTRICALLY OPERATED UNITARY AIR CONDITIONERS AND CONDENSING UNITS > 65,000 Btu/H < 135,000 Btu/h	C403.2.3(1)	MECHANICAL SCHEDULES	
HVAC EQUIPMENT PERFORMANCE	AC-1,AC-2, CU-1	SPLIT SYSTEM HEAT PUMP	HSPF = 11.2 SEER= 15.0	HSPF = 8.2 SEER= 14.0	MINIMUM EFFICIENCY REQUIREMENTS: ELECTRICALLY OPERATED UNITARY AIR CONDITIONERS AND CONDENSING UNITS < 65,000 Btu/h	C403.2.3(1)	MECHANICAL SCHEDULES	
HVAC SYSTEM CONTROLS	ALL HEATING COOLING EQUIPMENT	THERMOSTATIC CONTROLS	DIGITAL THERMOSTATS	-	THERMOSTATIC CONTROLS FOR HVAC SYSTEM	C403.2.6	MECHANICAL SCHEDULES AND PLANS	
SHUTOFF DAMPERS			GRAVITY/BACKDRAFT DAMPERS PROVIDED IN LIEU OF MOTORIZED DAMPER MOTORIZED DAMPERS PER EXCEPTIONS 1	-	BACKDRAFT DAMPER INSTALLED AT EXHAUST OPENINGS	C403.7.7	MECHANICAL SCHEDULES AND PLANS	
DUCT LEAKAGE			SMACNA HVAC DUCT LEAKAGE TEST	-	SMACNA HVAC DUCT LEAKAGE TEST	PER C403	MECHANICAL DWGS. & SPECS	

TABLE 2: ENERGY CODE COMPLIANCE INSPECTIONS FOR MECHANICAL SYSTEMS

	(IIB - MECHANICAL AND SERVICE WATER HEATING INSPECTIONS)								
	INSPECTION TEST	FREQUENCY	REFERENCE STANDARDS	INSPECTION DESCRIPTION	ECC CITATION				
IIB2	SHUT-OFF DAMPERS	AS REQUIRED DURING INSTALLATION	APPROVED CONSTRUCTION DOCUMENTS	DAMPERS FOR STAIR AND ELEVATOR SHAFT VENTS AND OTHER OUTDOOR AIR INTAKES AND EXHAUST OPENINGS INTEGRAL TO THE BUILDING ENVELOPE SHALL BE VISUALLY INSPECTED TO VERIFY THAT SUCH DAMPERS, EXCEPT WHERE PERMITTED TO BE GRAVITY DAMPERS, COMPLY WITH APPROVED CONSTRUCTION DRAWINGS. MANUFACTURER'S LITERATURE SHALL BE REVIEWED TO VERIFY THAT THE PRODUCT HAS BEEN TESTED AND FOUND TO MEET THE STANDARD.	NYSECC C403.2.4.4, C403.7.7, OR ASHRAE 90.1- 6.4.3.4				
IIB3	HVAC AND SERVICE WATER HEATING EQUIPMENT	PRIOR TO FINAL MECHANICAL AND CONSTRUCTION	APPROVED CONSTRUCTION DOCUMENTS	EQUIPMENT SIZING, EFFICIENCIES AND OTHER PERFORMANCE FACTORS OF ALL MAJOR EQUIPMENT UNITS, AS DETERMINED BY THE APPLICANT OF RECORD, AND NO LESS THAN 15% OF MINOR EQUIPMENT UNITS, SHALL BE VERIFIED BY VISUAL INSPECTION AND, WHERE NECESSARY, REVIEW OF MANUFACTURER'S DATA. POOL HEATERS AND COVERS SHALL BE VERIFIED BY VISUAL INSPECTION	NYSECC C403.2, C404.2, C404.7, C406.2				
IIB4	HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS	AFTER INSTALLATION AND PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION, EXCEPT THAT FOR CONTROLS WITH SEASONALLY DEPENDENT FUNCTIONALITY, SUCH TESTING SHALL BE PERFORMED BEFORE SIGN-OFF FOR ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY	APPROVED CONSTRUCTION DOCUMENTS INCLUDING CONTROL SYSTEM NARRATIVES	NO LESS THAN 20% OF EACH TYPE OF REQUIRED CONTROLS AND ECONOMIZERS SHALL BE VERIFIED BY VISUAL INSPECTION AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION. SUCH CONTROLS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THERMOSTATIC AND ECONOMIZER CONTROLS	NYSECC C403.2.4, C403.2.5.1, C403.2.11, C403.3, C403.4, C404.3, C404.6, C404.7				
IIB6	HVAC DUCT LEAKAGE TESTING	PRIOR TO CLOSING CEILINGS AND WALLS AND PRIOR TO FINAL CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS; NYC MECHANICAL CODE	WHERE THE AIR HANDLER AND/OR SOME DUCTWORK IS IN UNCONDITIONED SPACE, DUCT-LEAKAGE TESTING SHALL BE PERFORMED EITHER AFTER ROUGH-IN OR POST-CONSTRUCTION TO ENSURE COMPLIANCE WITH ECC R403.3.3 AND R403.3.4. NOT LESS THAN 20% OF SUCH DUCTWORK SHALL BE TESTED	NYSECC C403				

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	MECHANICAL DRAWING LIST						
SHEET NO.	SHEET NAME	REVISON NO.	REVISION DATE				
K-M-01	MECHANICAL NOTES, SYMBOLS & LEGENDS	0	-				
K-M-11	MECHANICAL 1ST FLOOR DEMOLITION PLAN	0	-				
K-M-12	MECHANICAL ROOF DEMOLITION PLAN	0	-				
K-M-21	MECHANICAL 1ST FLOOR CONSTRUCTION PLAN	0	-				
K-M-22	MECHANICAL ATTIC FLOOR CONSTRUCTION PLAN	0	-				
K-M-23	MECHANICAL ROOF CONSTRUCTION PLAN	0	-				
K-M-61	MECHANICAL SCHEDULES	0	-				
K-M-81	MECHANICAL DETAILS 1 OF 2	0	-				
K-M-82	MECHANICAL DETAILS 2 OF 2	0	-				
K-M-91	MECHANICAL CONTROLS	0	-				



ESTCHESTER COUNTY, NEW YORK ARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING

INFRASTRUCTURE REHABILITATION - PHASE 3 PLAYLAND PARK, RYE, NEW YORK **RESTAURANT KITCHEN WITH FOOD VENDING** MECHANICAL NOTES, SYMBOLS AND LEGENDS

CONTRACT NUMBER	SHEET NUMBER					
22-523	K-M-01					
DWG NO.: 549 c	of 664					
SCALE: AS INDICATED						
DATE: 08/23/2022						
DPW FILE 1-118-M-	1298-0	REV.	0			



C ONSULTANT INFORMATION

LiRo Engineers, Inc. *A LiRo Group Company* Syosset, N.Y. 516-214-8157[T]

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REVISION	TITLE	DATE	TITLE	DATE	

GENERAL NOTES:

- 1. RETURN REMOVED EXISTING EQUIPMENT TO OWNER IF IT IS IN WORKING CONDITION.
- 2. CONTRACTOR TO COORDINATE WITH FACILITY WHEN WORKING AROUND OR ABOVE THE RIDE COMPONENTS, AND PROVIDE ALL NECESSARY MEASURES TO PROTECT THESE COMPONENTS PER THE REQUIREMENTS OF THE FACILITY.

MECHANICAL DEMOLITION NOTES:

- 1 REMOVE EXISTING RANGE HOOD AND ASSOCIATED DUCTWORK AND PIPING. DEMOLISH EXISTING ANSUL FIRE PROTECTION SYSTEM AND ASSOCIATED CONTROLS. COORDINATE REMOVAL OF ANSUL SYSTEM WITH FIRE PROTECTION CONTRACTOR AND OWNER.
- (2) REMOVE EXISTING FLUE VENT FOR OVEN. COORDINATE WITH GC TO SEAL EXISTING WALL PENETRATION. PROVIDE FIRE STOPPING TO MATCH EXISTING.

③ REMOVE EXISTING CEILING VENTILATION GRILLES.

MECHANICAL FIRST FLOOR DEMOLITION PLAN	DPW FILE 1-118-M NUMBER	-1299-0 REV. 0	
PLAYLAND PARK, RYE, NEW YORK RESTAURANT KITCHEN WITH FOOD VENDING	DATE: 08/23/2022		
INFRASTRUCTURE REHABILITATION - PHASE 3	SCALE: AS INDICA	ATED	
DIVISION OF ENGINEERING	DWG NO.: 550 (of 664	
PARTMENT OF PUBLIC WORKS AND TRANSPORTATION	22-523	K-M-11	
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GENERAL NOTES:

1. RETURN REMOVED EXISTING EQUIPMENT TO OWNER IF IT IS IN WORKING CONDITION.

2. CONTRACTOR TO COORDINATE WITH FACILITY WHEN WORKING AROUND OR ABOVE THE RIDE COMPONENTS, AND PROVIDE ALL NECESSARY MEASURES TO PROTECT THESE COMPONENTS PER THE REQUIREMENTS OF THE FACILITY.

MECHANICAL DEMOLITION NOTES:

(1) DEMOLISH EXISTING EXHAUST FAN AND ASSOCIATED CONTROLS, DUCTWORK AND ACCESSORIES. COORDINATE REMOVAL OF ELECTRICAL POWER AND WIRING WITH ELECTRICAL CONTRACTOR. CONTRACTOR SHALL PATCH EXISTING ROOF PENETRATION TO MATCH EXISTING ROOF.

(2) DEMOLISH EXISTING RELIEF VENT. CONTRACTOR SHALL PATCH EXISTING ROOF PENETRATION TO MATCH EXISTING ROOF.

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING

> **INFRASTRUCTURE REHABILITATION - PHASE 3** PLAYLAND PARK, RYE, NEW YORK **RESTAURANT KITCHEN WITH FOOD VENDING** MECHANICAL ROOF DEMOLITION PLAN

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22-523	K-M-′
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DATE: 08/23/2022	

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GENERAL NOTES:

- 1. CONTRACTOR TO COORDINATE WITH FACILITY WHEN WORKING AROUND OR ABOVE THE RIDE COMPONENTS, AND PROVIDE ALL NECESSARY MEASURES TO PROTECT THESE COMPONENTS PER THE REQUIREMENTS OF THE FACILITY.
- 2. UPON COMPLETION, SYSTEM SHALL BE TESTED FOR PROPER OPERATION.

MECHANICAL CONSTRUCTION NOTES:

- 1 PROVIDE SUPPLY AND RETURN DUCTWORK FROM ROOFTOP UNIT RTU-1 AND ROUTE ALONG INDICATED PATH. PROVIDE INSULATION TO ALL SUPPLY DUCTWORK. PROVIDE VOLUME DAMPERS AND SUPPLY DIFFUSERS/GRILLES AND BALANCE TO INDICATED VALUES.
- 2 PROVIDE EXHAUST DUCTWORK FROM KITCHEN UP TO ROOFTOP EXHAUST FAN AS INDICATED.
- ③ PROVIDE NEW WALL MOUNTED ELECTRIC UNIT HEATER. COORDINATE INSTALL HEIGHT IN FIELD.
- ④ PROVIDE NEW CEILING MOUNTED INDOOR UNITS AC-1 AND AC-2 AS SHOWN. COORDINATE ELECTRICAL POWER AND WIRING WITH ELECTRICAL DRAWINGS.

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING

> **INFRASTRUCTURE REHABILITATION - PHASE 3** PLAYLAND PARK, RYE, NEW YORK **RESTAURANT KITCHEN WITH FOOD VENDING** MECHANICAL FIRST FLOOR CONSTRUCTION PLAN

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352 Wg No.:	01 004			
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MENT OF PUBLIC WORKS AND TRANSPORTATION	22-523	K-M-22			
DIVISION OF ENGINEERING	DWG NO.: 553 C	of 664			
INFRASTRUCTURE REHABILITATION - PHASE 3	SCALE: AS INDICA	TED			
PLAYLAND PARK, RYE, NEW YORK	DATE: 08/23/2022				
MECHANICAL ATTIC FLOOR CONSTRUCTION PLAN	DPW FILE 1-118-M-1	302-0	REV. NO.	0	



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REVISION		DATE	TITLE	DATE				

GENERAL NOTES:

- 1. CONTRACTOR TO COORDINATE WITH FACILITY WHEN WORKING AROUND OR ABOVE THE RIDE COMPONENTS, AND PROVIDE ALL NECESSARY MEASURES TO PROTECT THESE COMPONENTS PER THE REQUIREMENTS OF THE FACILITY.
- 2. UPON COMPLETION, SYSTEM SHALL BE TESTED FOR PROPER OPERATION.

MECHANICAL CONSTRUCTION NOTES:

PROVIDE NEW EXHAUST FAN AS SCHEDULED. COORDINATE ELECTRICAL POWER AND WIRING WITH ELECTRICAL DRAWINGS. ENSURE ALL WORK IMPACTING ROOF IS DONE IN ACCORDANCE WITH ROOFING MANUFACTURER WARRANTY.

STCH	ES	TER	СC	UN'	ΓY,	NEW	YORK
TMENT	OF	PUBLI(C W	ORKS	AND	TRANSE	PORTATION
		DIVISION	I OF	ENGIN	JEERIN	G	

INFRASTRUCTURE REHABILITATION - PHASE 3 PLAYLAND PARK, RYE, NEW YORK **RESTAURANT KITCHEN WITH FOOD VENDING** MECHANICAL ROOF CONSTRUCTION PLAN

ONTRACT JMBER	SHEET NUMBER			
2-523	K-M-23			
554 WG NO.:	01 664			
CALE: AS INDICA	TED			
ATE: 08/23/2022				
PW FILE 1-118-M-1	303-0	REV. NO.	0	

1.221 C. C. C. C. C.	MANUFACTURE	R MODEL	LOCATION	NOM. CAP.	MIN. OA	MAX. OA	AIR		Notes			DEED		LS
				(TONS)	(CFM)	(CFM)	FLOW (CFM)	ESP (IN)	BHP	TYPE 2"		TYPE	CAP (MBH	1)
VIU-1	TRANE	THC092F3RNA	ROOF	7.5	1100	-	2400	0.50	0.55	PLEAT	ED ¹³	R-410A	87.5	
. PROV . FACTO . PROV . PROV	IDE DOWNFLOW DRY CONTROLS IDE WITH MERV IDE DIGITAL CON	SUPPLY AND R TO BE PROVIDE 13 FILTERS AND TROLLER WITH	ETURN UNIT (D BY MANUF, OPTION FOR DISPLAY CAF	CONFIGURATION ACTURER. UV LIGHT FILTF PABLE OF DEMA	N, OVERSIZE RATION KIT. AND CONTRO		FAN MO		OTORIZEI			MPER, N CTOR TO	PROVIDE	
	AG (INDOOR)	ASSOCIATED OUTDOOR UN	MAN	UFACTURER	MOD	EL	LO	OITAC	N/SERVIC	E	REFRIG	ERANT		SUPPI
	AC-1	CU-1	M	ITSUBISHI	PLFY-P18	NFMU-E	SEAS	ONAL F	OOD SEF	RVICE	R41	10A		4
	AC-2	CU-1	М	ITSUBISHI	PLFY-P18	NFMU-E	SEAS	ONAL F	OOD SEF	RVICE	R41	10A		4
2. PROV 3. PROV 1. INSTA	IDE UNIT WITH W IDE ALL INDOOR LL AND SIZE REF	VIRED WALL MO UNIT WITH INTR RIGERANT PIPI	UNTED THER	MOSTAT. IDENSATE PUMI UFACTURER'S S	P BPECIFICATIO)N. S YS1	ГЕМ	HE	EAT	PUI	MP C	ON	DEN	ISI
	G (OUTDOOR)	MANUFACTUR	ER	MODEL	NOMINAL	COOLING	NC	DMINA	HEATING	3	SER	VICE		SE
	CU-1	MITSUBISHI	PUMY-	P36NKMU3-BS	(BTU/ 3600	HR) 00		(BT 42	000		SEASON			22
								F	AN S	БСН			TSP	
TAG	MANUFAC	TURER	MODEL	LOCATION	N S	ERVICE		TY	PE	DRIV	E (CF	FM)	(IN. WG)	H
EF-1 EF-2	GREENH		G-130-VG	ROOF	KITCHE	N / TRASI	HRM	CENTR	FUGAL	DIREC	CT 11	00 50	0.25	0.
PROV	IDE THERMAL ON	/ERLOAD FOR A	LL SINGLE P	HASE MOTORS.	FOR ALL FAN	S.	ANO PE	IN SEQ		- OPEK				
3. PROV 4. FAN § 5. PROV 6. PROV	IDE SALT WATER HALL BE FURNIS IDE 12" ROOF CU IDE WALL HOUSI	RESISTANT HE BED WITH NON JRBS FOR ALL F NG.	FUSED DISC	ED FANS. INCLU	JDE 1.5" INSU	JLATION	DN CURB							
3. PROV I. FAN S 5. PROV 5. PROV	IDE SALT WATER HALL BE FURNIS IDE 12" ROOF CU IDE WALL HOUSI	RESISTANT HE BED WITH NON JRBS FOR ALL F NG.			JDE 1.5" INSU									

LiRo Engineers, Inc. *A LiRo Group Company* Syosset, N.Y. 516-214-8157[T]

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REVISION NUMBER	DATE	MADE B Y	APP'D By	

IDIT	ION	lino	GU	NIT	SC	HE	DULE										
DX COC	LING	LING HEATING COMPRESSOR CONDENSER		R		E	LECTRIC	CAL	OPERATING	DIMENSIONS							
SENSIBLE CAP. (MBH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	ELEC. KW	TOTAL CAP. (MBH)	TYPE/QTY	AMB. TEMP (°F)	FAN QTY	Kw	EER	МСА	МОСР	V-PH-HZ	WEIGHT (±LBS)	LxWxH (FT)	NOTES
70.4	80.2	64.3	54.4	52.1	36.0	122.9	SCROLL/2	89	1	0.72	12.60	104	110	208-3-60	1228	7.4X4.4X3.9	1,2,3,4
t.	16			19										<u>.</u>		,	
SCONNECT,	ECON	OMIZER	, ECONO	MIZER	HOOD, B	AROMET	RIC RELIEF HOC	DD AND 14" RO	OF CUF	RB.							
SFORMER	AND P	OWER A	AS REQU	JIRED.													

TPU	JMP SC	HEDU	JLE						
Y FAN	COOLII	NG	HE	ATING	ELE	CTRICAL			
M	TOTAL/SENS. (MBH)	EAT DB/WB	мвн	EAT/LAT DB	VPHCY.	MCA	MOCP	WEIGHT	NOTES
60	18.0/18.0	81/66	20.0	68/90	208-1-60	0.50	15	31.3	1,2,3,4
60	18.0/18.0	81/66	20.0	68/90	208-1-60	0.50	15	31.3	1,2,3,4

EER	COP	VPHCY.	MCA	MOCP	WEIGHT	NOTES
2.3	4	208-1-60	29.0	44.0	271.0	1,2

		ELECT	RIC UNIT HE	ATER SCH	EDULE			
TAG	MANUFACTURER	MODEL	SERVICE	TYPE	ĸw	AMPS	V-PH-HZ	NOTES
UH-1	TRANE	UHEC-031A0C0	WATER SERVICES RM	WALL HUNG	3.3	15.9	208-1-60	1
UH-2	TRANE	UHEC051AACA	KITCHEN	WALL HUNG	5	24.1	208-1-60	1
UH-3	TRANE	UHEC051AACA	KITCHEN	WALL HUNG	5	24.1	208-1-60	1
NOTES:		ġ	12		Ů.			

1. PROVIDE UNIT MOUNTED 2 STAGE THERMOSTAT.

			~	LOU	VER SC	HEDULE		~~			
TAG	MANUFACTURER	MODEL	SERVICE	LOCATION	MATERIAL	FINISH TYPE	WIDTH (INCH)	HEIGHT (INCH)	FREE AIR VELOCITY (FPM)	PRESSURE DROP (IN. WG)	MINIMUM FREE AREA (SQUARE FEET)
LV-1	GREENHECK	ESD-635	EXHAUST	ATTIC	ALUMINUM	BAKED ENAMEL	12	12	-	-	0.19
LV-2	GREENHECK	ESD-635	EXHAUST	ATTIC	ALUMINUM	BAKED ENAMEL	12	12	263	0.05	0.19
NOTES:			1	•							

NOTES

PROVIDE WITH ALUMINUM BIRD SCREEN AND BACKDRAFT DAMPERS.
 PROVIDE WITH ALUMINUM BIRD SCREEN ONLY.

			AIR INL	ET / OI	JTLET	SCHEDU	JLE				
TAG	MANUFACTURER	MODEL	SERVICE	NECK SIZE (IN)	FACE SIZE (IN)	MOUNTING	CFM	MAX PD (wg)	MAX VELOCITY	MAX NC	NOTES
SD-1	TITUS	TMS	GENERAL SUPPLY	12	24x24	LAY-IN / GYP	321-425	0.10	600	30	1, 2, 3
RD-1	TITUS	50F	GENERAL RETURN	14X14	24x24	LAY-IN / GYP	528-732	0.05	600	30	1, 3
ED-1	TITUS	50F	GENERAL EXHAUST	6X6	24x24	LAY-IN / GYP	0-95	0.05	600	30	1, 3
ED-2	TITUS	50F	GENERAL EXHAUST	16X16	24X24	LAY-IN / GYP	732-972	0.50	600	30	1, 3
TG-1	TITUS	SG-LFF	TRANSFER	-	6X6	WALL MOUNTED	70	0.03	400	-	1
TG-1 NOTES:	TITUS	SG-LFF	TRANSFER	-	6X6	WALL MOUNTED	70	0.03	4	00	00 -

1. COORDINATE AND CONFIRM CEILING AND/OR WALL MOUNT (T-BAR, SURFACE, REINFORCEMENT, ETC) WITH ARCHITECTURAL RCP AND WALL CONSTRUCTION BEFORE ORDERING 2. PROVIDE WITH MOLDED INSULATION BLANKET.

3. INTEGRAL VOLUME DAMPERS NOT ACCEPTABLE. VOLUME DAMPERS PROVIDED BY MECHANICAL CONTRACTOR ON ALL RUN-OUTS. EXCEPTIONS REQUIRE APPROVAL WHEN REQUIRED.

	RECORD DRAWING	G CERTIFICATION	WESTCHESTER COUNTY, NEW YORK	CONTRACT SHEET NUMBER NUMBER
	AS BUILT – CHANGES AS NOTED	AS BUILT – NO CHANGES	DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	22-523 K-M-61
	-		DIVISION OF ENGINEERING	DWG NO.: 555 of 664
	C ONTRACTOR	PROJECT COORDINATOR	INFRASTRUCTURE REHABILITATION - PHASE 3	SCALE: AS INDICATED
	SIGNATURE	SIGNATURE	PLAYLAND PARK, RYE, NEW YORK RESTAURANT KITCHEN WITH FOOD VENDING	DATE: 08/23/2022
REVISION	TITLE DATE	TITLE DATE	MECHANICAL SCHEDULES	DPW FILE 1-118-M-1304-0 REV. 0 NO.

HP BHP RPM V-PH-	WEIGHT		NOTES
	Z (±LBS)	(IN)	NOTES
0.25 0.09 906 115-1-	-60 24	19x 19	1,2,3,4,5
0.07 0.00 638 115-1-		The second s	10010



	-	RECORD DRAWING	G CERTIFIC	CATION	WF
	AS BUILT – CHA	ANGES AS NOTED		AS BUILT – NO CHANGES	DEPA
	C ONTRAC	CTOR	NAME	PROJECT COORDINATOR	
REVISION	SIGNATURE	DATE	SIGNATURE	DATE	



NUMBER

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	RECORD DRAWING	G CERTIFICATION	WESTCHESTER COUNTY, NEW YORK	CONTRACT SHEET NUMBER NUMBER
	AS BUILT – CHANGES AS NOTED	AS BUILT – NO CHANGES	DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION Division of engineering	22-523 K-M-82 DWG NO.: 557 of 664
	CONTRACTOR NAME	PROJECT COORDINATOR NAME SIGNATURE	INFRASTRUCTURE REHABILITATION - PHASE 3 PLAYLAND PARK, RYE, NEW YORK RESTAURANT KITCHEN WITH FOOD VENDING	SCALE: AS INDICATED DATE: 08/23/2022
REVISION	TITLE DATE	TITLE DATE	MECHANICAL DETAILS 2 OF 2	DPW FILE 1-118-M-1306-0 REV. 0 NUMBER 0



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Themsen	REOFN RANKF. No. 090 PROFESS	EW JOP	CIMER + YC	2

REVISION NUMBER	DATE	MADE B Y	APP'D By

TS SPACE THERMOSTAT

AI AI DI UNOCCUPIED OVERRIDE

SUPPLY

- AIR 2

- CONDENSING UNIT REFRIGERANT PROVIDED BY UNIT MANUFACTURER PIPING TERMINAL BLOCK FOR INDOOR TRANSMISSION CABLE REFRIGERANT T REMOTE TEMPERATURE CONTROLLER PROVIDED BY UNIT MANUFACTURER PIPING TYPICAL PER INDOOR UNIT RETURN SUPPLY AIR (HTG/CLG ACU)
- MULTIPLE DUCTLESS SPLIT SYSTEMS HEATING AND COOLING SEQUENCE OF OPERATIONS:
- 1. UNITS SHALL BE CONTROLLED WITH UNIT PROVIDED THERMOSTATS AND CONNECTED TO CONTROLLER .
- 2. GENERATE AN ALARM AT CONTROLLER WHEN THE TEMPERATURE GOES ABOVE OR BELOW ROOM TEMPERATURE RANGE (ADJUSTABLE).





EXHAUST FAN - CONSTANT SPEED - SEQUENCE OF OPERATIONS:

INTERLOCK THE OPERATION OF THE EXHAUST FANS AND AUTOMATIC DAMPERS WITH THEIR RESPECTIVE HEATING AND COOLING EQUIPMENT, RTU-1.

- 1. OCCUPIED MODE:
- a. THE EXHAUST FAN SHALL RUN CONTINUOUSLY AND THE AUTOMATIC AIR DAMPER SHALL OPEN.
- 3. UNOCCUPIED MODE:
- a. THE EXHAUST FAN SHALL BE OFF AND THE AUTOMATIC AIR DAMPER SHALL BE CLOSED.
- 4. WARM-UP MODE: a. THE EXHAUST FAN SHALL BE OFF AND THE AUTOMATIC AIR DAMPER SHALL BE CLOSED.
- **EXHAUST FAN CONSTANT SPEED** 4



EXHAUST FAN - CONSTANT SPEED - SEQUENCE OF OPERATIONS:

GENERAL: EACH EXHAUST FAN CONSISTS OF FAN, BACKDRAFT DAMPER, AND EC MOTOR CONTROLLER

- 1. OCCUPIED MODE:
- a. THE EXHAUST FAN SHALL RUN WHEN THE RELATIVE HUMIDITY IN THE SPACE SERVED EXCEEDS 60 PERCENT.
- 3. UNOCCUPIED MODE:
- a. THE EXHAUST FAN SHALL RUN WHEN THE RELATIVE HUMIDITY IN THE SPACE SERVED EXCEEDS 60 PERCENT.
- 4. WARM-UP MODE:
- a. THE EXHAUST FAN SHALL RUN WHEN THE RELATIVE HUMIDITY IN THE SPACE SERVED EXCEEDS 60 PERCENT.



	RECORD DRAWING CERTIFICATION		WESTCHESTER COUNTY NEW YORK	CONTRACT SHEET NUMBER NUMBER
	AS BUILT – CHANGES AS NOTED	AS BUILT – NO CHANGES	DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	22-523 K-M-91
			DIVISION OF ENGINEERING	DWG NO.: 558 of 664
	CONTRACTOR	PROJECT COORDINATOR	INFRASTRUCTURE REHABILITATION - PHASE 3	SCALE: AS INDICATED
	NAMESIGNATURE	NAME	PLAYLAND PARK, RYE, NEW YORK RESTAURANT KITCHEN WITH FOOD VENDING	DATE: 08/23/2022
REVISION	TITLE DATE	TITLE DATE	MECHANICAL CONTROLS	DPW FILE 1-118-M-1307-0 REV. NO.



UNIT HEATER - ELECTRIC - SEQUENCE OF OPERATIONS:

1. ON DROP IN SPACE TEMPERATURE BELOW OCCUPIED HEATING SETPOINT, CYCLE THE FAN ON AND MODULATE (2 STAGE) ELECTRIC COIL TO MAINTAIN SPACE OCCUPIED SETPOINT, FAN SHALL HAVE DELAYED SHUT OFF AFTER VALVE CLOSES. USE 5 DEG. F (ADJUSTABLE) DEADBAND TO MINIMIZE SHORT CYCLING.

