

MECHANICAL DEMOLITION NOTES

- [illegible]

HVAC SYMBOL LIST

SERIES	DESCRIPTION
	NEW DUCTWORK OR PIPING
	EXISTING DUCTWORK OR PIPING
	RETURN TO ROOM
	RECTANGULAR DUCT (FIRST VIEW)
	CIRCULAR DUCT (FIRST VIEW)
	DUCT SIZE IN INCHES
	DUCT DEPTH IN INCHES
	FLEXIBLE DUCTWORK
	SUPPLY AND RETURN AIR DUCT
	SUPPLY AIR DUCT
	RETURN AIR DUCT
	SUPPLY AND EXHAUST AIR DUCT
	EXHAUST AIR DUCT
	VOLUME DAMPER
	MOTOR OPERATED DAMPER
	EQUIPMENT TAG
	DETAIL TAG
	MECHANICAL SHEET NUMBER
	THERMOSTAT
	EXHAUST GRILLE
	REFER TO SUPPLEMENTAL SHEET (1E 2 REFERS TO PAGE 2)

HVAC ABBREVIATIONS

[illegible]

NYSECC ENERGY COMPLIANCE

PER SECTION C101.7 OF THE 2020 NYSECC HISTORIC BUILDINGS ARE EXEMPT FROM THE REQUIREMENTS OF THE ENERGY CODE.

SCOPE OF WORK

DESTRUCTION	- REMOVE TWO (2) EXISTING REAR FLOODS AS INDICATED. - REMOVE TWO (2) EXISTING REAR VENTILATION GRILLES AS INDICATED. - REMOVE TWO (2) EXISTING ROOF FANS AS INDICATED. - REMOVE TWO (2) EXISTING ROOF FANS AND ASSOCIATED DUCTWORK, CONTROLS AND ACCESSORIES.
CONSTRUCTION	- PROVIDE ONE (1) NEW ROOF AIR HANDLING UNIT (FUTU-1) PROVIDE ONE (1) NEW DUCTWORK AS INDICATED. - PROVIDE ONE (1) NEW OUTDOOR SPILT CONDENSER AIR CONDITIONER UNIT AS INDICATED. - PROVIDE TWO (2) NEW CEILING RECESSED ROOM AIR CONDITIONER UNITS AS INDICATED. - PROVIDE ONE (1) NEW CARRIER TERMINAL AIR CONDITIONER UNIT AS INDICATED. - PROVIDE ONE (1) NEW GENERAL KITCHEN TRASH ROOF EXHAUST FAN ON ROOF AND ASSOCIATED DUCTWORK AS INDICATED. - PROVIDE ONE (1) NEW WALL MOUNTED ELECTRIC UNIT HEATER AS INDICATED. - PROVIDE TWO (2) NEW KIRAN RESISTANT COVERS AS INDICATED.

MECHANICAL VENTILATION SCHEDULE

SPACE DETAILS			MECH CODE REQUIREMENTS					DESIGN			NOTES	
ROOM	AREA (FT ²)	# PEOPLE	# OA/SQ FT	# OF TUBS OR TALESTRI UNIT	EXH CFM/FIXTURE	NET OA FLOW (CFM)	MIN DESIGN OA FLOW (CFM)	ACTUAL OA FLOW (CFM)	ACTUAL EX FLOW (CFM)			
105 KITCHEN	1347	27	0.12	7.5	-	0.7	943	1000	2400	1400	1000	1
102 DRY ROOM	67	-	0.12	-	-	-	8	100	100	-	100	1

NOTES: 1. ROOM GRAVE MECHANICAL ZONE

NATURAL VENTILATION SCHEDULE

SPACE DETAILS				DESIGN		NOTES
ROOM	AREA (SF)	4% FLOOR FREE AREA (SF)	WINDOW	DOOR AREA (SF)	TOTAL OPERABLE AREA (SF)	
101 SEASONAL FOOD SERVICE	343	14	.	156	156	1,2

NOTES:

1. NEW YORK STATE MECHANICAL CODE
2. NATURAL VENTILATION OF AN OCCUPIED SPACE SHALL BE THROUGH WINDOWS, DOORS, LOUVERS AND OTHER MEANS OF PROVIDING A MINIMUM OF PENETRATING AIR TO THE OUTDOORS SHALL PERCENT OF THE SPACE BEING VENTILATED.

TABLE 1: ENERGY CODE ANALYSIS TABLE FOR MECHANICAL SYSTEMS

FPM 2020 VHS ENERGY COUNCIL							
ITEM DESCRIPTION		EQUIPMENT TYPE	PROPOSED VALUE	MINIMUM EFFICIENCY	CODE PRESCRIBED VALUE AND CITATION	CITATION	SUPPORTING DOCUMENTATION
UNIT TAG							
HVAC EQUIPMENT PERFORMANCE	RTU-1	SINGLE PACKAGED UNIT	SEER= 12.6	SEER=11.2	MINIMUM EFFICIENCY REQUIREMENTS FOR ELECTRICALLY GENERATED UNITARY AIR-CONDITIONING AND CONDENSING UNITS = 16.0000	CA03.2.3(1)	MECHANICAL SCHEDULES
HVAC EQUIPMENT PERFORMANCE	AC-1 AC2-1, DL-1	SPLIT SYSTEM HEAT PUMP	HSPF= 11.3 HSPF= 14.0	HSPF= 8.2 HSPF= 14.0	MINIMUM EFFICIENCY REQUIREMENTS FOR ELECTRICALLY GENERATED UNITARY AIR-CONDITIONING AND CONDENSING UNITS = 16.0000	CA03.2.3(1)	MECHANICAL SCHEDULES
HVAC SYSTEM CONTROLS	ALL HEATING COOLING EQUIPMENT	TEHERMOSTATIC CONTROLS	DIGITAL THERMOSTATS	-	TEHERMOSTATIC CONTROLS FOR HVAC SYSTEM	CA03.2.6	MECHANICAL SCHEDULES AND PLANS
	SHUT/OFF DAMPERS		GRAVITY THERMOSTATS (DAMPERS PROVIDED IN LIEU OF MOTORIZED DAMPERS)	-	BACKDRIFT DAMPERS INSTALLED AT EXHAUST OPENING	CA03.7.7	MECHANICAL SCHEDULES AND PLANS
	DRIFT LEAKAGE		SIMON VMC DUCT LEAKAGE TEST	-	SIMON VMC DUCT LEAKAGE TEST	PER CA03.9	MECHANICAL DETAILS & SPECS

TABLE 2: ENERGY CODE COMPLIANCE INSPECTIONS FOR MECHANICAL SYSTEMS

	INSPECTION TEST	FREQUENCY	REFERENCE STANDARDS	INSPECTION DESCRIPTION	EGC CITATION
100	SHUT OFF DAMPERS	AS REQUIRED DURING INSTALLATION	APPROVED CONSTRUCTION DOCUMENTS	DAMPERS FOR AIR AND ELEVATOR SHAFT VENTS AND OTHER VENTS LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE VISUALLY INSPECTED TO VERIFY THAT SUCH DAMPERS, EXCEPT WHERE PERMITTED TO BE GRANTY, ARE PROPERLY INSTALLED. MANUFACTURER LITERATURE SHALL BE REVIEWED TO VERIFY THAT THE PRODUCT HAS BEEN TESTED AND FOUND TO MEET THE	NVSECC CAD30.2.4, CAD30.7.1, ON ASHRAE 90.1-6.4.3.4
101	HVAC AND SERVICE WATER HEATING EQUIPMENT	PRIOR TO FINAL MECHANICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	EQUIPMENT SIZING, EFFICIENCIES AND OTHER PERFORMANCE FACTORS OF ALL MAJOR EQUIPMENT, AS DETERMINED BY THE DESIGNER, SHALL BE REVIEWED BY VISUAL INSPECTION AND, WHERE NECESSARY, REVIEW OF MANUFACTURER'S DATA. POOL HEATERS AND COVERS SHALL BE VERIFIED BY VISUAL INSPECTION	NVSECC CAD30.2.4, CAD30.7.1, CAD30.7.2, CAD30.7.3, CAD30.7.4
102	HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS	AFTER ELECTRICAL AND PRIOR TO FINAL MECHANICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	NO LESS THAN 20% OF EACH TYPE OF REQUIRED CONTROLS AND EQUIPMENT SHALL BE VERIFIED BY VISUAL INSPECTION. SYSTEM CONTROLS SHALL INCLUDE, BUT NOT BE LIMITED TO, THERMOSTATIC AND EXHAUSTOR CONTROL	NVSECC CAD30.2.4, CAD30.2.5.1, CAD30.2.11, CAD30.2.12, CAD30.2.13, CAD30.2.14
103	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 FLEXIBLE AND/OR SOFT DUCTWORK IS IN EXCESS OF 1000 LINEAL FEET, LEAKAGE TESTING SHALL BE PERFORMED EITHER AFTER INSTALLATION OR POST CONSTRUCTION	NVSECC CAD30

CONSULTANT SEAL		RECORD DRAWING CERTIFICATION		WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	
		☐ AS BUILT - CHANGES AS NOTED ☐ AS BUILT - NO CHANGES		DIVISION OF ENGINEERING	
		CONTRACTOR NAME _____ ADDRESS _____ CITY _____ STATE _____ ZIP _____		PROJECT COORDINATOR NAME _____ ADDRESS _____ CITY _____ STATE _____ ZIP _____	
LIRo Engineers, Inc. 4 Lirco Group Companies 516-214-6171 Yonkers, N.Y.		REVISION NUMBER _____	DATE _____	REVISION _____	DATE _____
CONTRACT NUMBER 22-523		PROJECT NUMBER 549 of 664		SCALE AS INDICATED	
DATE 06/22/2022		PROJECT INFRASTRUCTURE REHABILITATION - PHASE 3 PLAY AND PARK, RYE, NEW YORK RESTAURANT KITCHEN WITH FOOD VENDING MECHANICAL NOTES, SYMBOLS AND LEGENDS		TOTAL NUMBER OF SHEETS 1-1184-2368-0	