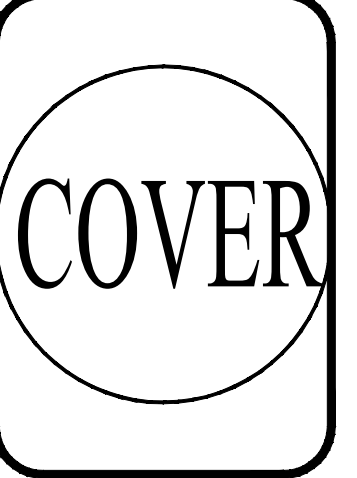


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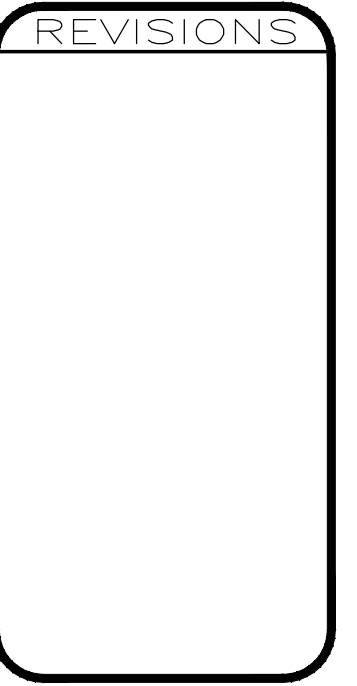
MECHANICAL RENOVATIONS TO MYRTLE BEACH HIGH SCHOOL

HORRY COUNTY SCHOOL DISTRICT

3302 ROBERT M GRISSOM PARKWAY
MYRTLE BEACH, SC 29577

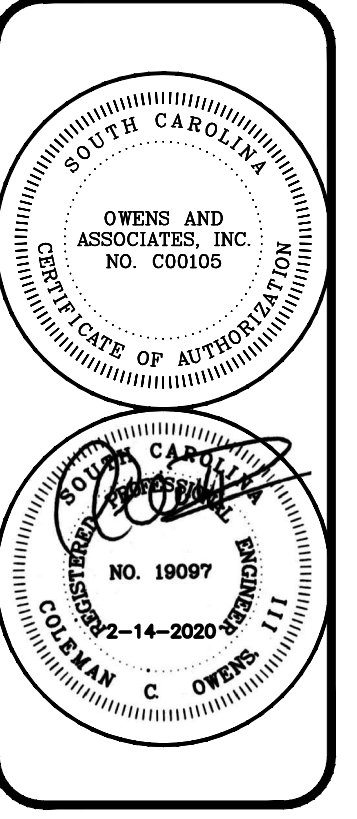
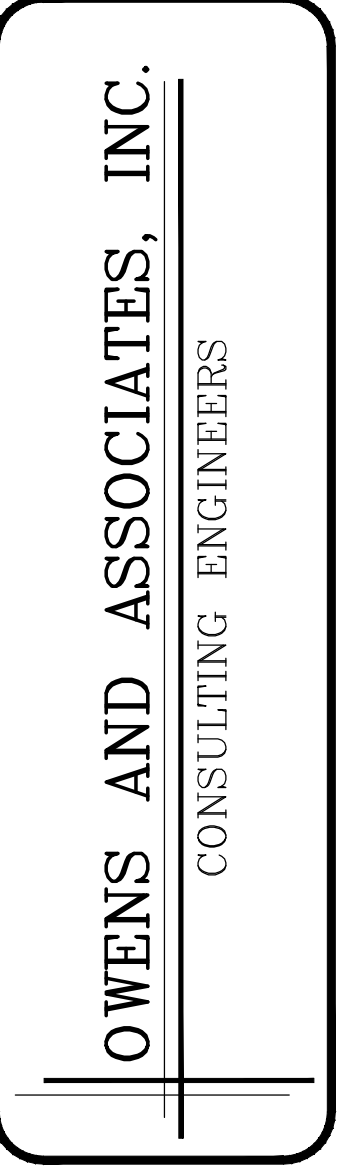


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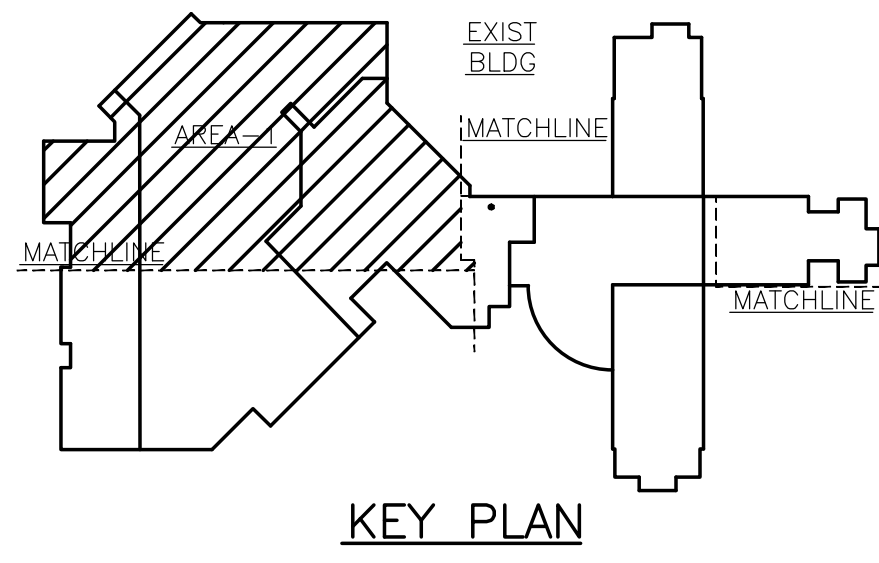
project:
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RENOVATIONS TO
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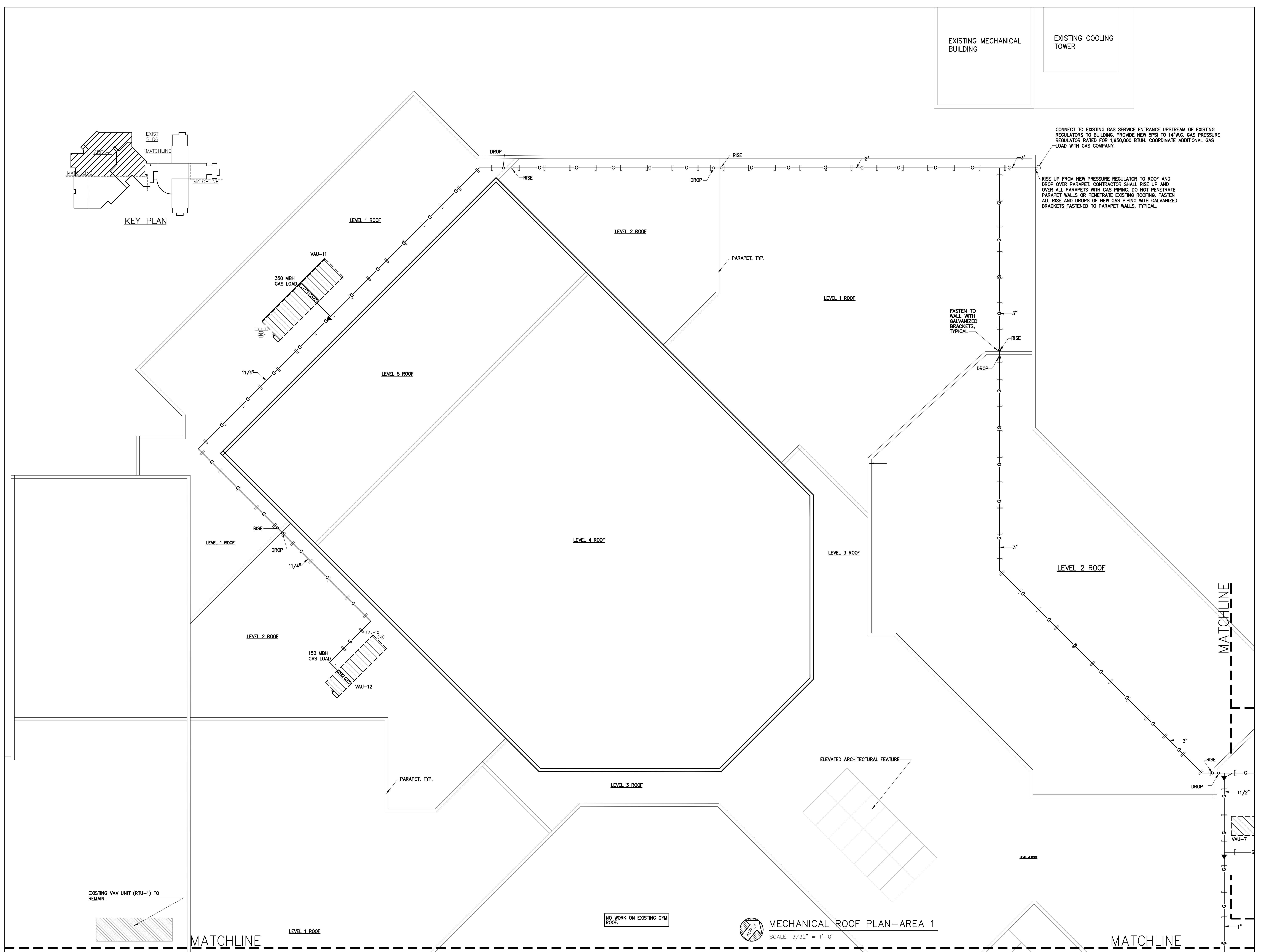


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KEY PLAN



EXISTING VAV UNIT (RTU-1) TO REMAIN.

NO WORK ON EXISTING GYM ROOF.

MECHANICAL ROOF PLAN-AREA 1
SCALE: 3/32" = 1'-0"

CONNECT TO EXISTING GAS SERVICE ENTRANCE UPSTREAM OF EXISTING REGULATORS TO BUILDING. PROVIDE NEW 5PSI TO 14"W.G. GAS PRESSURE REGULATOR RATED FOR 1,950,000 BTUH. COORDINATE ADDITIONAL GAS LOAD WITH GAS COMPANY.

RISE UP FROM NEW PRESSURE REGULATOR TO ROOF AND DROP OVER PARAPET. CONTRACTOR SHALL RISE UP AND OVER ALL PARAPETS WITH GAS PIPING. DO NOT PENETRATE PARAPET WALLS OR PENETRATE EXISTING ROOFING. FASTEN ALL RISE AND DROPS OF NEW GAS PIPING WITH GALVANIZED BRACKETS FASTENED TO PARAPET WALLS, TYPICAL.

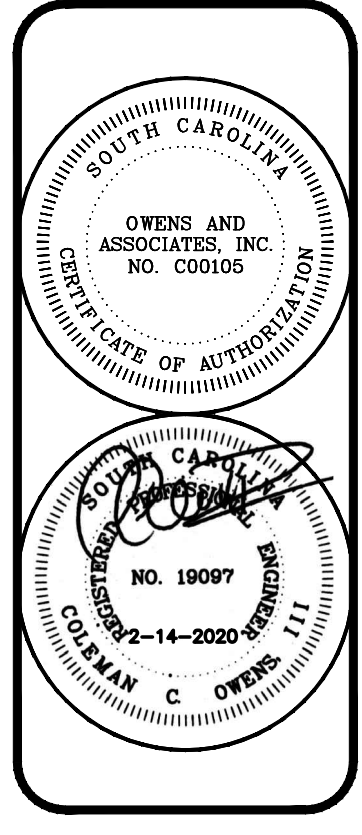
FASTEN TO WALL WITH GALVANIZED BRACKETS, TYPICAL.

MATCHLINE

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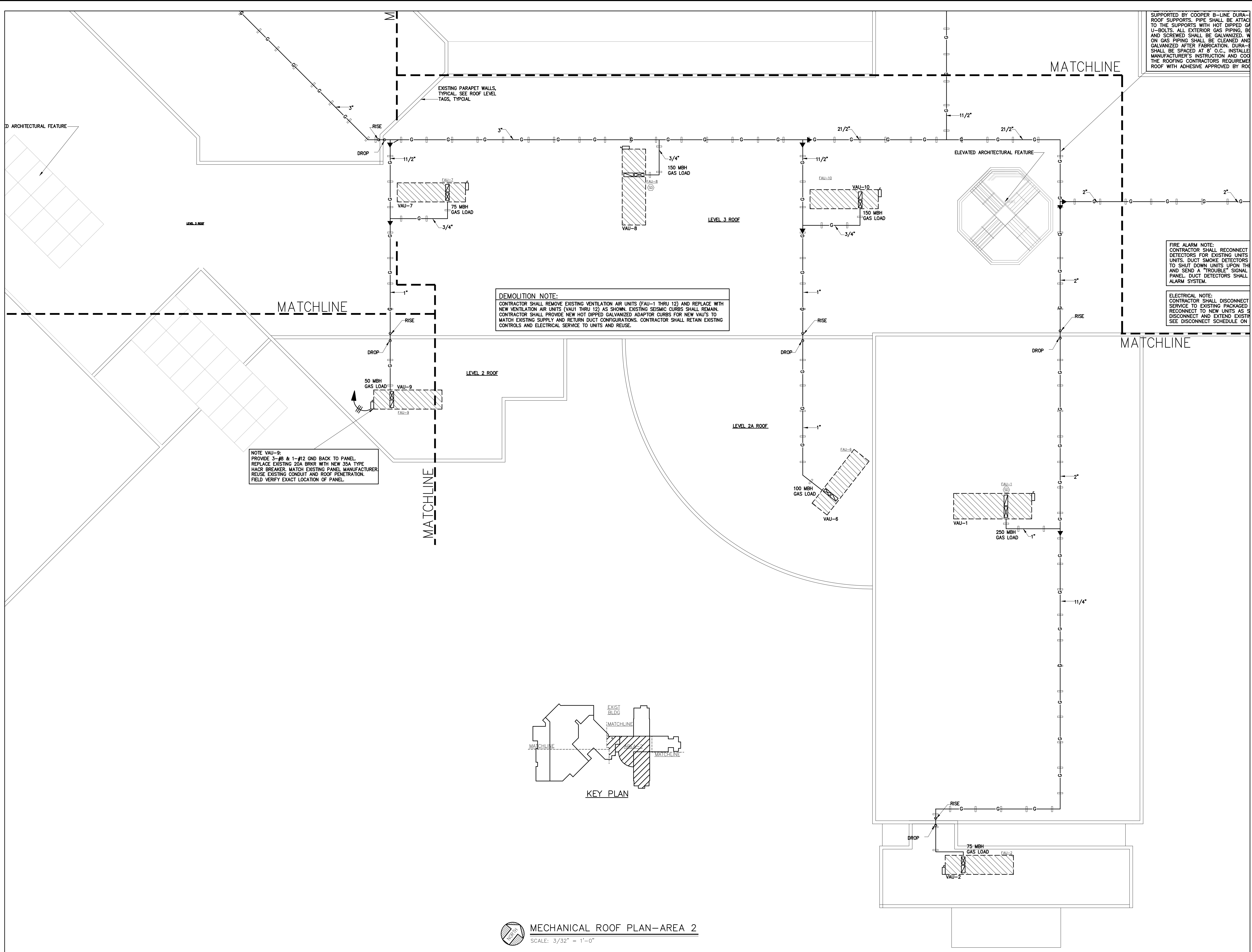
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date: 2-14-2020

M-101

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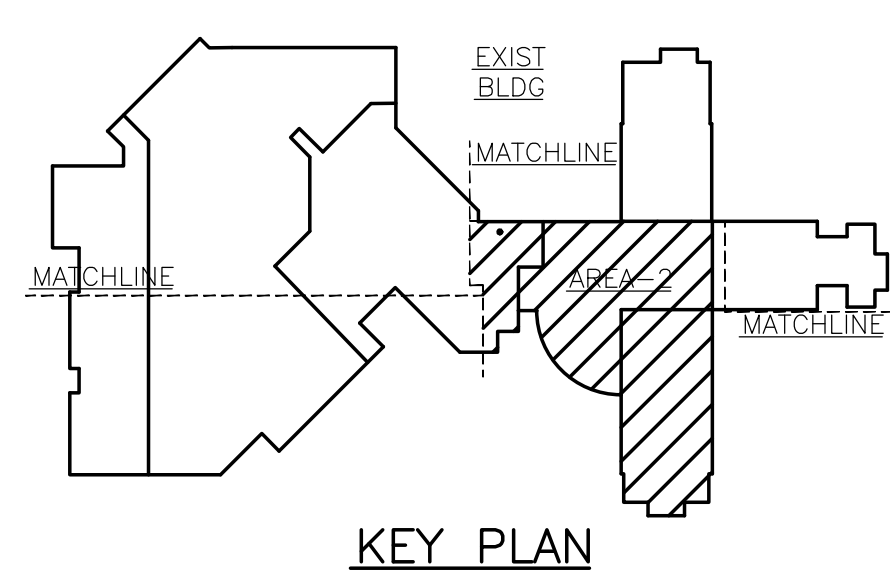
DEMOLITION NOTE:
CONTRACTOR SHALL REMOVE EXISTING VENTILATION AIR UNITS (FAU-1 THRU 12) AND REPLACE WITH NEW VENTILATION AIR UNITS (VAU1 THRU 12) AS SHOWN. EXISTING SEISMIC CURBS SHALL REMAIN. CONTRACTOR SHALL PROVIDE NEW HOT DIPPED GALVANIZED ADAPTOR CURBS FOR NEW VAU'S TO MATCH EXISTING SUPPLY AND RETURN DUCT CONFIGURATIONS. CONTRACTOR SHALL RETAIN EXISTING CONTROLS AND ELECTRICAL SERVICE TO UNITS AND REUSE.

NOTE VAU-9:
PROVIDE 3-#6 & 1-#12 GND BACK TO PANEL.
REPLACE EXISTING 20A BRKR WITH NEW 35A TYPE HACR BREAKER. MATCH EXISTING PANEL MANUFACTURER.
REUSE EXISTING CONDUIT AND ROOF PENETRATION.
FIELD VERIFY EXACT LOCATION OF PANEL.

SUPPORTED BY COOPER B-LINE DURA-ROOF SUPPORTS. PIPE SHALL BE ATTACHED TO THE SUPPORTS WITH HOT DIPPED GALVANIZED U-BOLTS. ALL EXTERIOR GAS PIPING, BE AND SCREWED SHALL BE GALVANIZED. WORK ON GAS PIPING SHALL BE CLEANED AND GALVANIZED AFTER FABRICATION. DURA-ROOF SHALL BE SPACED AT 8" O.C., INSTALLER SHALL FOLLOW MANUFACTURER'S INSTRUCTION AND COORDINATE WITH THE ROOFING CONTRACTORS REQUIREMENTS. ROOF WITH ADHESIVE APPROVED BY ROOFING CONTRACTOR.

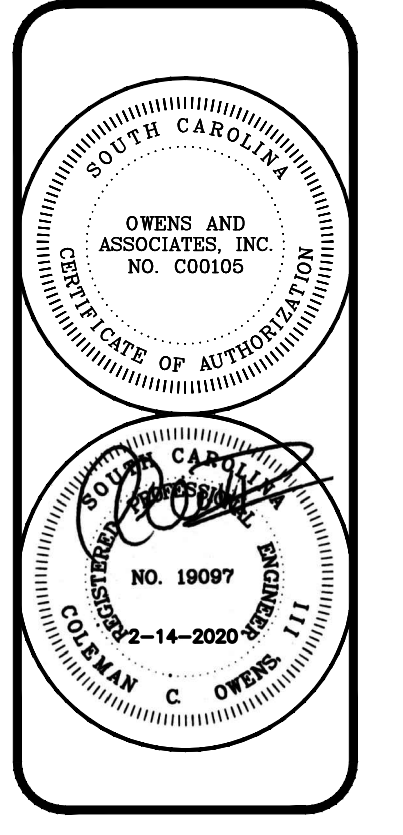
FIRE ALARM NOTE:
CONTRACTOR SHALL RECONNECT DETECTORS FOR EXISTING UNITS. DUCT SMOKE DETECTORS TO SHUT DOWN UNITS UPON THE AND SEND A "TROUBLE" SIGNAL PANEL. DUCT DETECTORS SHALL ALARM SYSTEM.

ELECTRICAL NOTE:
CONTRACTOR SHALL DISCONNECT SERVICE TO EXISTING PACKAGED UNITS. RECONNECT TO NEW UNITS AS SHOWN. DISCONNECT AND EXTEND EXISTING SERVICE TO UNITS AND REUSE. SEE DISCONNECT SCHEDULE ON SHEET M-101.



KEY PLAN

MECHANICAL ROOF PLAN-AREA 2
SCALE: 3/32" = 1'-0"



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REVISIONS

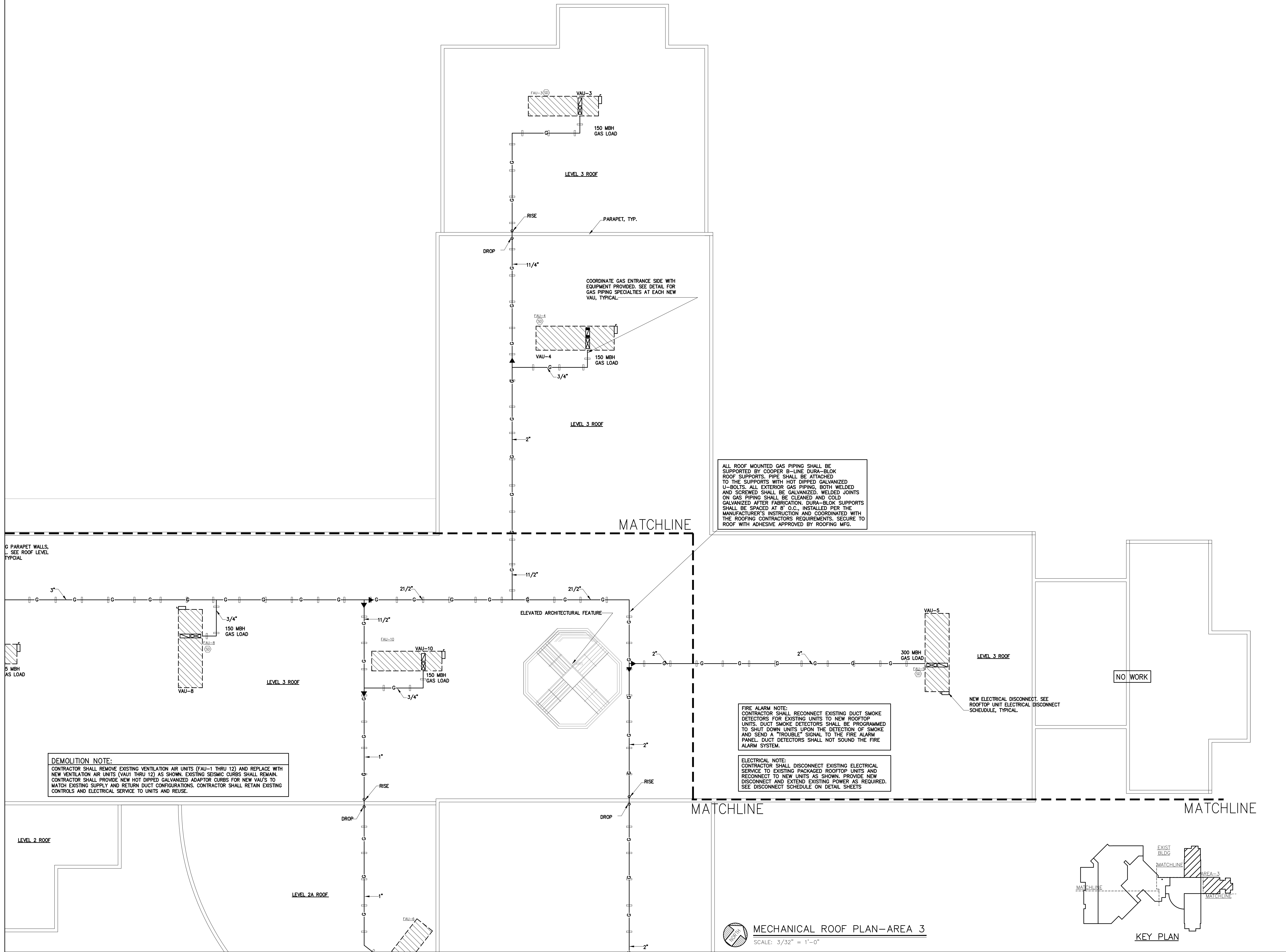
NO.	DESCRIPTION
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project: 1915
date: 2-14-2020

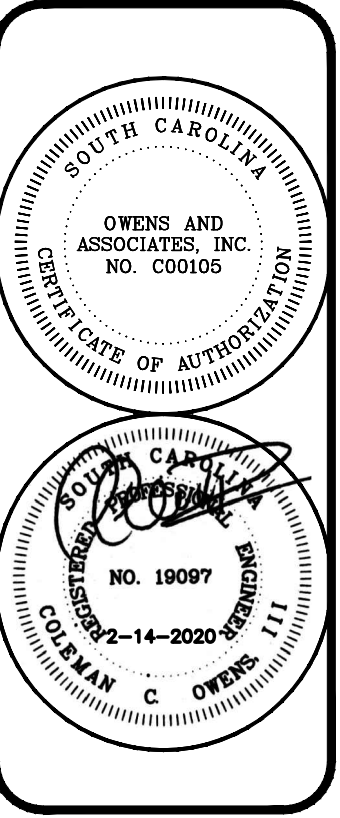
M-102

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Mt. Pleasant, South Carolina

project:
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REVISIONS

project: 1915
date: 2-14-2020

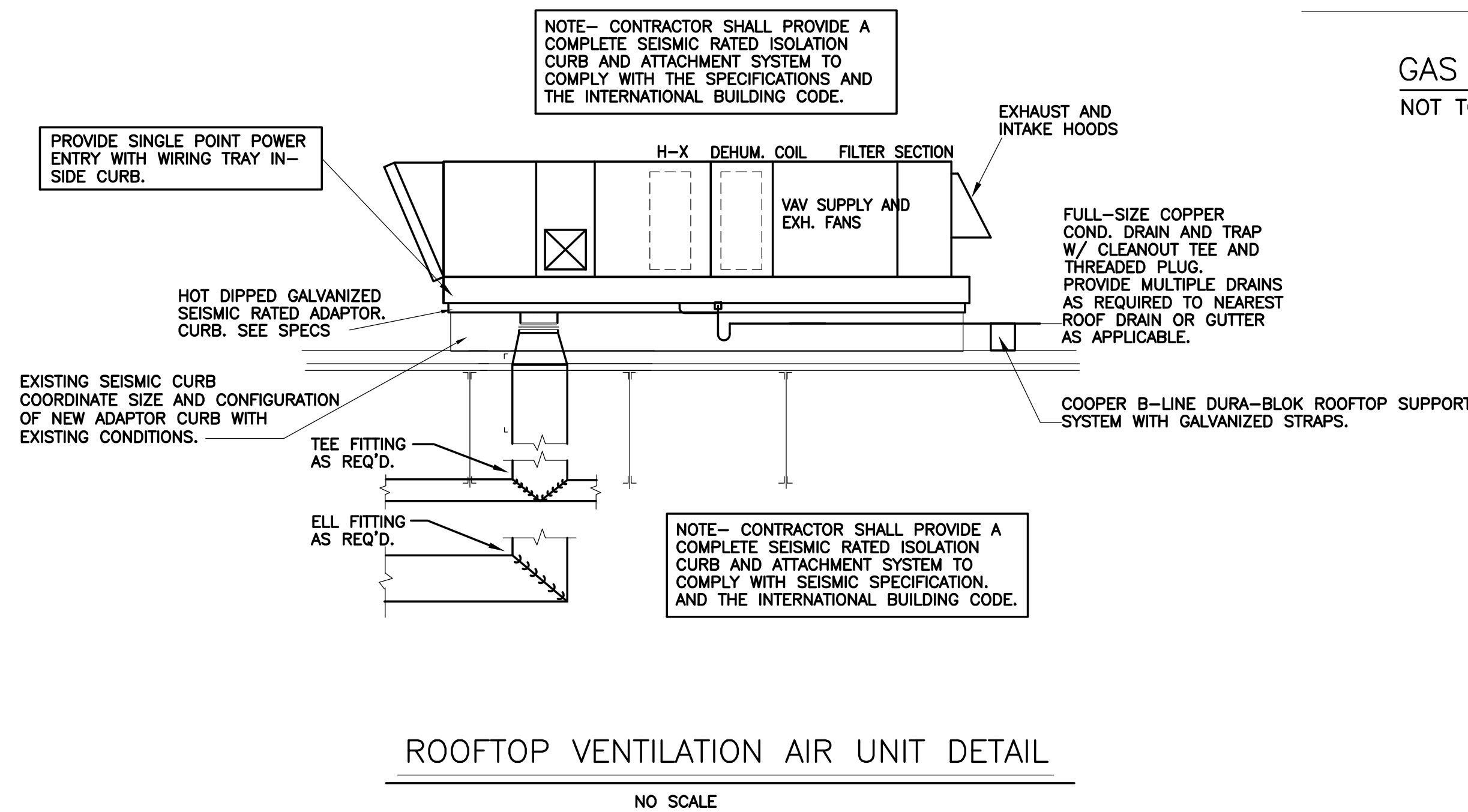
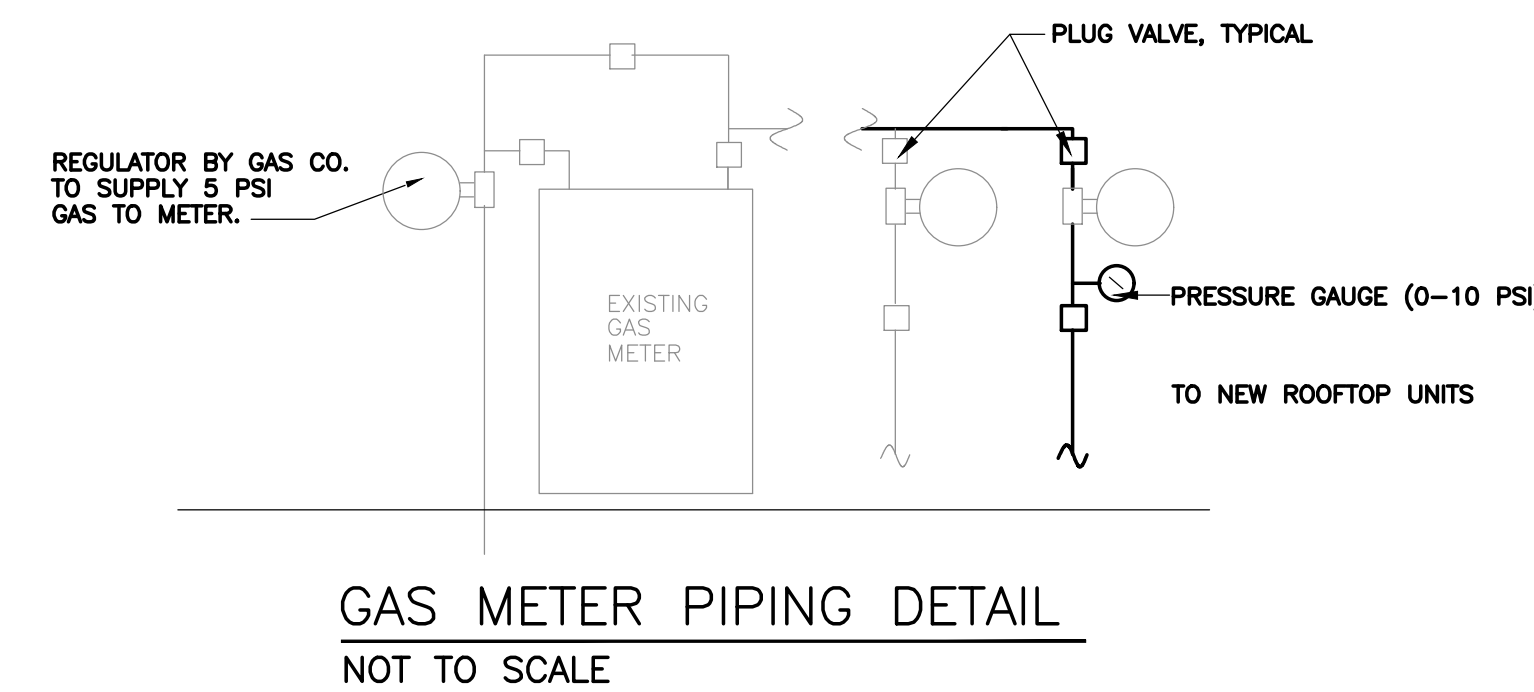
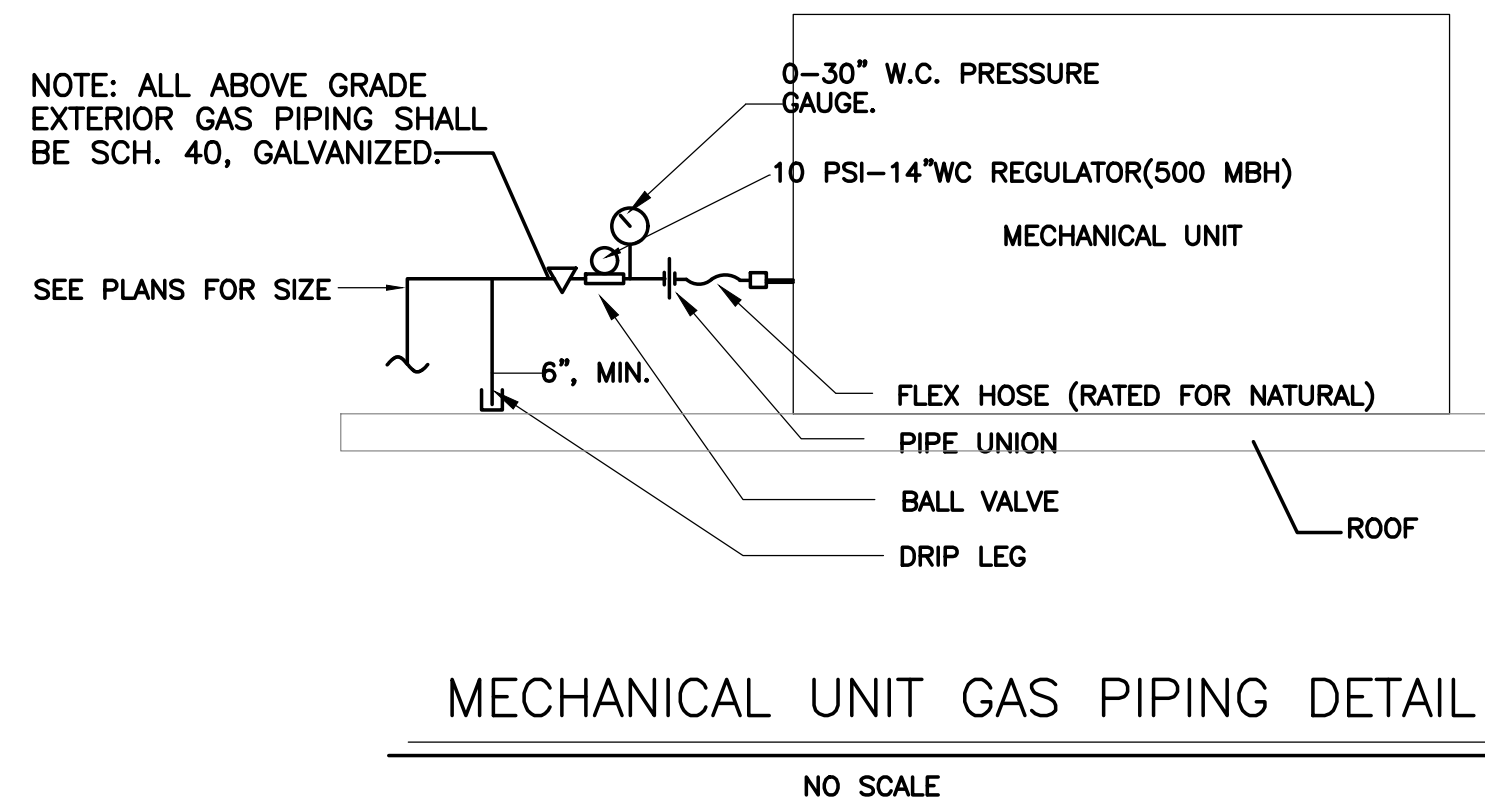
M-103

GENERAL MECHANICAL NOTES:

- SEE ARCHITECTURAL PLANS AND GENERAL SECTIONS OF SPECIFICATIONS FOR DESCRIPTIONS OF ALTERNATES.
- DUCTS TO ROOF MOUNTED EXHAUST FANS SHALL BE ROUTED FULL-SIZE OF EXHAUST GRILLE, WHERE APPLICABLE. COORDINATE INSTALLATION WITH ALL STRUCTURAL MEMBERS. PROVIDE DUCT EASEMENTS AS REQUIRED.
- REFER TO ROOF PLANS. COORDINATE EXACT LOCATIONS FOR ROOF-TOP EQUIPMENT WITH STRUCTURAL PLANS AND GENERAL CONTRACTOR. HEIGHT OF ALL MECHANICAL ROOF CURBS SHALL BE COORDINATED WITH THE MINIMUM HEIGHT REQUIREMENTS OF THE ROOFING BOND. SEE ARCHITECTURAL PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL FURNISH TO OWNER AT COMPLETION OF PROJECT, A COMPLETE SET OF WRITTEN OPERATING INSTRUCTIONS FOR ALL SYSTEMS. REFER TO REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING PLANS TO COORDINATE CEILING AIR DEVICE LOCATIONS.
- PROVIDE 2-1/2"x2-1/2"x1/4" GALVANIZED STEEL ANGLES, 3/8" THREADED HANGER ROD, AND OTHER SUPPLEMENTAL STEEL AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT FROM THE STRUCTURE, DUCTWORK, UNIT HEATERS, EXHAUST FANS, ETC.
- ALL RETURN DUCT CONNECTIONS TO AIR DEVICES SHALL BE RECTANGULAR UNLESS OTHERWISE INDICATED ON PLANS. USE OF FLEXIBLE DUCT FOR RETURN IS NOT PERMISSIBLE.
- REFER TO FLOOR PLANS FOR LOCATIONS OF FIRE-RATED ASSEMBLIES. CONTRACTOR SHALL COMPLETELY FILL AROUND ALL OPENINGS REQUIRED FOR HIS WORK IN ACCORDANCE WITH DETAILS WITH APPROVED FIRE-PROOF MATERIALS.
- CEILING AIR DEVICE INSTALLATIONS SHALL CONFORM TO THE APPROPRIATE UL ASSEMBLY NUMBER PER THE CODE ANALYSIS DATA FOR THIS PROJECT. CONTRACTOR SHALL SEAL ALL DUCTWORK WITH DUCT SEALANT PER SPECIFICATIONS. DUCT TAPE SHALL NOT BE USED TO SEAL DUCTWORK.
- THE CONTRACTOR IS INSTRUCTED TO VISIT THE SITE PRIOR TO SUBMITTING A BID TO FAMILIARIZE HIMSELF WITH ALL WORK TO BE ENCOUNTERED. NO EXTRA CHARGE WILL BE APPROVED AFTER START OF CONSTRUCTION FOR FAILURE TO FOLLOW THESE INSTRUCTIONS.
- CONTRACTOR SHALL PROVIDE THREADED RODS, 1/4", OR OTHER APPROVED MEANS TO LATERALLY SUPPORT ALL SUSPENDED MECHANICAL EQUIPMENT, DUCTS, ETC. IN ACCORDANCE WITH THE SEISMIC DESIGN REQUIREMENTS IN CHAPTER 16 OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION.

DESIGN CONDITIONS		
	COOLING	HEATING
OUTSIDE	94F DB, 78F WB	20F DB
INSIDE	75F DB, 62.5F WB	72F DB

SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
Ⓢ	THERMOSTAT WITH LOCK COVER
Ⓡ	EXHAUST FAN
TR GR/EX GR	TRANSFER GRILLE / EXHAUST GRILLE
↔	AIR TURNING VANE
↔ S	SPLITTER DAMPER
FD/-	FIRE DAMPER / HOUR RATING
▨	INDICATION OF ROOF MOUNTED EQUIPMENT
⊘	GATE VALVE
⊘	GLOBE VALVE
⊘	FLOW STATION
⊘	CHECK VALVE
⊘	STRAINER
⊘	UNION/FLANGE
⊘	PRESSURE GAUGE WITH PETCOCK
⊘	THERMOMETER
⊘	CIRCUIT SETTER
⊘	PRESSURE REDUCING VALVE
⊘	PRESSURE RELIEF VALVE
⊘	MANUAL AIR VENT
⊘	FLEXIBLE CONNECTION



PACKAGED ROOFTOP VENTILATION AIR UNIT WITH ENERGY RECOVERY SCHEDULE																										
SYM.	SUPPLY AIR				EXHAUST AIR				T.E. WHEEL SUMMER		T.E. WHEEL WINTER		WHEEL EFF. EFF. %	COOLING COIL				HOT GAS REHEAT COIL				NATURAL GAS HEAT		ELECTRICAL		REMARKS/MANUFACTURER
	CFM	ESP	FAN HP	HP	CFM	ESP	FAN HP	HP	E.A.T. (db/wb)	CAPACITY (db/wb)	L.A.T. (db)	E.A.T. (db)		CAPACITY MBH	L.A.T. (db)	E.A.T. (db/wb)	CAPACITY MBH	L.A.T. (db)	E.A.T. (db/wb)	CAPACITY MBH	L.A.T. (db)	E.A.T. (db)	MBH IN. (4:1 TD)	L.A.T. (db)	VOLTS	
VAU-1	4650	1.0	5.0	3953	1.0	3.0	95/80	212	81.2/68.9	20	281	54.4	78%	81.2/68.9	310	46.5/46.2	46.5/46.2	108	68.0/55.6	54.4	250	94.2	480	3	90	TRANE HORIZON W/ SUPPLY AND RETURN VFD.
VAU-2	1200	2.5	1020	2.5	53	81.5/69.3		71	53.7		81.5/69.3	86	44.8/44.8	44.8/44.8	59	90.8/63.6	53.6	75	100						35	
VAU-3	2200	1.5	1870	1.0	98	81.5/69.2		131	53.9		81.5/69.2	160	44.1/44.1	44.1/44.1	80	77.7/58.6	53.9	150	104						50	
VAU-4	3000	2.0	2550	1.0	137	81.2/68.9		182	54.5		81.2/68.8	213	44.5/44.2	44.5/44.2	98	74.7/57.4	54.5	150	91.5						50	
VAU-5	5200	5.0	4420	3.0	229	81.5/69.3		307	53.7		81.5/69.3	359	45.8/45.8	45.8/45.8	84	60.8/52.6	53.7	300	96.4						80	
VAU-6	1400	2.5	1190	2.5	63.5	81.3/68.9		85	54.3		81.3/68.9	91	47.1/46.9	47.1/46.9	63	89.0/63.7	54.3	100	107						35	
VAU-7	1245	2.5	1058	2.5	57	81.2/68.8		76	54.6		81.2/68.8	88	44.4/44.4	44.4/44.4	61	89.8/63.1	54.6	75	99.2						35	
VAU-8	2650	1.5	2252	1.0	119	81.4/69.1		158	54.0		81.4/69.1	188	45.0/44.7	45.0/44.7	89	76.1/58.2	54.0	150	95.9						50	
VAU-9	1000	2.5	850	2.5	45	81.3/69.0		60	54.2		81.3/69.0	73	43.8/43.5	43.8/43.5	51	90.9/63.0	54.2	50	91.2						35*	SEE NOTE 5
VAU-10	1540	1.0	1309	1.0	71	81.1/68.7		95	54.8		81.1/68.7	109	44.3/44.0	44.3/44.0	43	68.2/54.9	54.8	150	127						30	
VAU-11	6000	5.0	5100	3.0	258	81.7/69.6		346	53.2		81.7/69.6	435	44.8/44.8	44.8/44.8	102	60.5/52.0	53.2	350	96.4						110	
VAU-12	2000	1.0	1700	1.0	86	82.0/69.6		115	52.6		82.0/69.6	138	46.5/46.3	46.5/46.3	70	79.2/60.0	52.6	150	108						40	

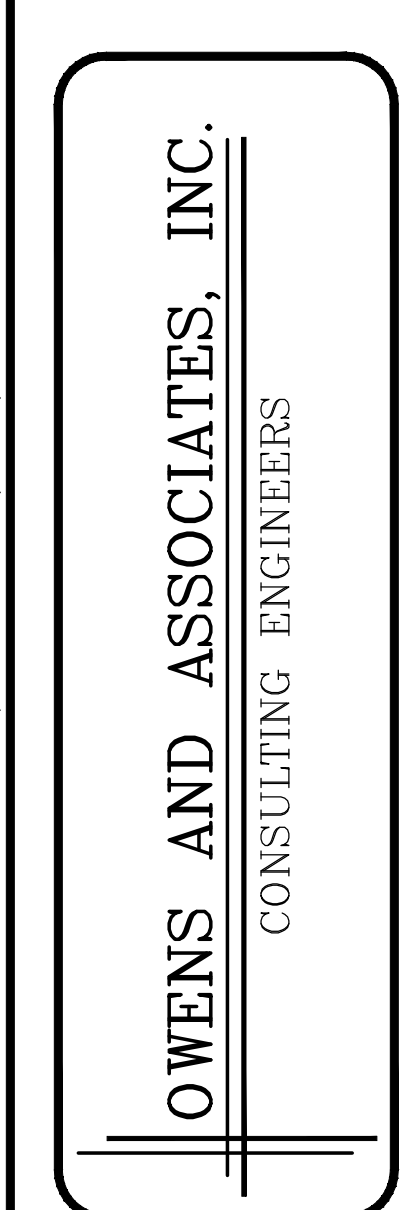
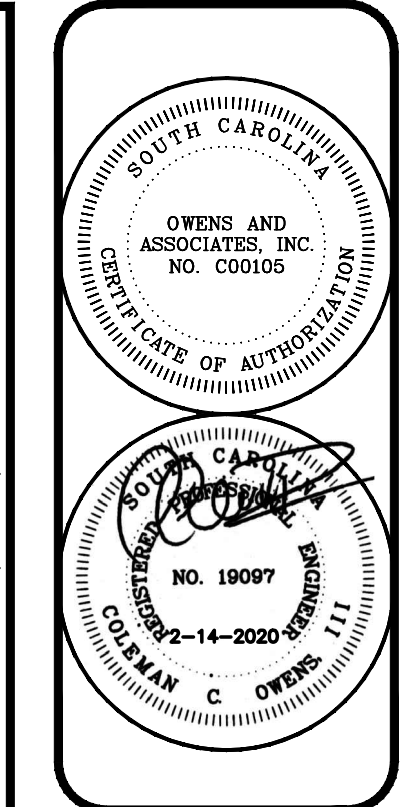
- NOTES:
- PROVIDE VENTILATION AIR UNITS WITH SUPPLY AND RETURN FAN VFD'S AND SUPPLY AIR CARBON MONOXIDE SENSORS.
 - PROVIDE VENTILATION AIR UNITS WITH 120 V CONVENIENCE OUTLETS.
 - VENTILATION AIR UNITS SHALL BE AS MANUFACTURED BY TRANE HORIZON AS SPECIFIED OR PRIOR APPROVED EQUAL. SEE SPECIFICATIONS.
 - VENTILATION AIR UNITS SHALL BE CAPABLE OF 100% ECONOMIZER OPERATION. UNIT NORMAL OPERATION IS 17,000 CFM SUPPLY AIR WITH 10,625 CFM RECIRCULATED AIR/6375 CFM OUTSIDE AIR. UNITS SHALL DEMAND VENTILATE BASED ON SPACE CO2 LEVELS. DURING NORMAL COOLING MODE, UNIT SHALL DELIVER 50°F SUPPLY AIR FROM THE COIL AND REHEAT AS REQUIRED TO MAINTAIN SPACE HUMIDITY LEVELS AT 50% RH AND COOLING SETPOINT AT 74°F. HEATING SETPOINT SHALL BE 70°F.
 - REPLACE EXISTING 20A, 3 POLE BREAKER SERVING EXISTING FAU-9 WITH 35A, 3 POLE HACR BREAKER WITH 3-#8 AND 1-#12 GND BACK TO EXISTING PANEL. MATCH EXISTING BREAKER MANUFACTURER AND FIELD VERIFY LOCATION.

GENERAL ELECTRICAL NOTES:

- DUE TO THE NATURE OF WORK COVERED UNDER THESE PLANS AND SPECIFICATIONS, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING VISITED THE SITE TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
- ALL CONDUIT PENETRATIONS OF FIRE RATED WALLS AND/OR CEILINGS SHALL BE FIRESTOPPED AS PER UL STANDARDS.
- ALL CONDUIT PENETRATIONS OF EXTERIOR WALLS SHALL BE SEALED AND MADE WEATHERPROOF.
- CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING CEILING TILES AS NECESSARY FOR THE INSTALLATION OF NEW CONDUITS AND DEVICES. CONTRACTOR SHALL REPLACE ANY TILE DAMAGED BY THIS WORK. NEW CEILING TILES TO MATCH EXISTING.
- ALL CONDUIT RUNS SHOWN ON THESE DRAWINGS ARE APPROXIMATE. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LENGTH AND LOCATION.
- ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS AND THE SPECIFICATIONS, FOR ALL BID ALTERNATES AND ALL PHASING INFORMATION, PRIOR TO SUBMITTING HIS BID.
- ALL BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE.
- THE MECHANICAL EQUIPMENT BASIS OF DESIGN IS AS INDICATED ON THE MECHANICAL DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE ELECTRICAL REQUIREMENTS OF THE MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO ORDERING MATERIALS. MODIFICATIONS TO ANY ELECTRICAL SYSTEM REQUIRED FOR MECHANICAL EQUIPMENT WHICH DIFFERS FROM THE MECHANICAL BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE MECHANICAL AND ELECTRICAL CONTRACTORS. IN NO CASE SHALL SUBSTITUTION OF MECHANICAL EQUIPMENT RESULT IN ADDITIONAL COSTS TO THE OWNER.
- ELECTRICAL CONTRACTOR SHALL USE LOCATOR SERVICE TO IDENTIFY ALL UNDERGROUND UTILITIES. DAMAGE TO ANY EXISTING UTILITIES RESULTING FROM INSTALLATION OF NEW ELECTRICAL UTILITIES SHALL BE REPAIRED BY THE ELECTRICAL CONTRACTOR.
- ALL FEEDERS SHALL BE ROUTED CONCEALED. ELECTRICAL CONTRACTOR SHALL SAW CUT AND PATCH EXISTING CONCRETE AS NECESSARY TO ROUTE UNDERGROUND CONDUITS. ABOVE CEILING CONDUITS SHALL BE ROUTED CONCEALED.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR BRINGING THE SITE BACK TO ORIGINAL CONDITIONS AFTER THE COMPLETION OF UNDERGROUND ELECTRICAL WORK. THIS IS INCLUSIVE OF SAW CUT ASPHALT AND CONCRETE SURFACES, EXISTING VEGETATION, GRASS, SITE GRADING ETC. THIS CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE SITE/FACILITY CAUSED BY ELECTRICAL CONSTRUCTION.
- ELECTRICAL CONTRACTOR SHALL SAW CUT EXISTING CONCRETE AND ASPHALT DRIVES AS REQUIRED TO INSTALL BELOW GRADE CONDUITS. AFTER INSTALLATION OF WORK, CONTRACTOR SHALL BACKFILL AND BRING SOIL TO INITIAL COMPACTION LEVELS AND REPAIR SAW CUT AREAS OF CONCRETE AND ASPHALT DRIVES. PATCHING SHALL MATCH EXISTING WITH REGARD TO REINFORCING AND THICKNESS. ALL SAW CUT TRENCHES SHALL BE MADE IN A WORKMANLIKE FASHION.
- ANY EXISTING ELECTRICAL EQUIPMENT NOT BEING REMOVED OR RELOCATED BUT ON THE SAME CIRCUIT AS ANY ELECTRICAL EQUIPMENT BEING REMOVED OR RELOCATED SHALL BE RECONNECTED TO ALLOW FOR NORMAL OPERATION UNLESS SHOWN OTHERWISE ON THE NEW WORK DRAWINGS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS AND LABOR FOR THE RECONNECTION OF SAID DEVICES.
- ELECTRICAL CONTRACTOR SHALL RELOCATE ANY EXISTING ELECTRICAL EQUIPMENT, CIRCUITRY, OR CONDUIT THAT INTERFERES WITH DEMOLITION OR INSTALLATION WORK AND PROVIDE ALL NECESSARY MATERIALS AND LABOR NEEDED TO RETURN THE RELOCATED EQUIPMENT TO A SAFE AND OPERATING CONDITION THAT CONFORMS TO THE CURRENT EDITION OF THE N.E.C. AND ALL LOCAL REGULATIONS. COORDINATE ALL WORK WITH THE OWNER'S REPRESENTATIVE AND ALL OTHER TRADES.
- ANY DEVICE INTERFERING WITH DEMOLITION OR INSTALLATION, NOT BEING REMOVED OR RELOCATED, SHALL NOT BE MOVED WITHOUT WRITTEN CONSENT FROM THE OWNER'S REPRESENTATIVE.
- ALL WORK SHALL BE IN COMPLIANCE WITH THE CODES AND STANDARDS LISTED IN THE ARCHITECTURAL CODE ANALYSIS FOUND ELSEWHERE IN THESE CONTRACT DOCUMENTS.

ROOFTOP UNIT ELECTRICAL FUSED DISCONNECT SCHEDULE									
SYM.	DISCONNECT (AMPS)	FUSE (AMPS)	VOLTAGE	PHASE	REQUIREMENTS				
VAU-1	100	90	480	3	1" C.-3#3 AND 1#6 GROUND				
VAU-2	60	35	480	3	3/4" C.-3#8 AND 1#12 GROUND				
VAU-3	60	50	480	3	3/4" C.-3#8 AND 1#12 GROUND				
VAU-4	60	50	480	3	1" C.-3#6 AND 1#10 GROUND				
VAU-5	100	80	480	3	1" C.-3#4 AND 1#8 GROUND				
VAU-6	60	35	480	3	3/4" C.-3#8 AND 1#12 GROUND				
VAU-7	60	35	480	3	3/4" C.-3#8 AND 1#12 GROUND				
VAU-8	60	50	480	3	3/4" C.-3#8 AND 1#12 GROUND				
VAU-9*	60	35	480	3	3/4" C.-3#8 AND 1#12 GROUND (NEW CIRCUIT)				
VAU-10	60	30	480	3	3/4" C.-3#8 AND 1#12 GROUND				
VAU-11	200	110	480	3	2" C.-3#2/0 AND 1#3 GROUND				
VAU-12*	60	40	480	3	3/4" C.-3#8 AND 1#12 GROUND				

- NOTES: FUSE NEW DISCONNECTS TO THE M.O.C.P. OF EQUIPMENT PROVIDED. DISCONNECTS SHALL BE NEMA 3R BY SQUARE-D OR APPROVED EQUAL. *PROVIDE NEW WIRE AND TYPE HACR BREAKERS FOR VAU-9 AND REUSE EXISTING CONDUIT. MATCH EXISTING PANEL MANUFACTURER, TYP.



Owens and Associates, Inc., consulting engineers Mt. Pleasant, South Carolina

MECHANICAL RENOVATIONS TO MYRTLE BEACH HIGH SCHOOL

REVISIONS

project: 1915 date: 2-14-2020

