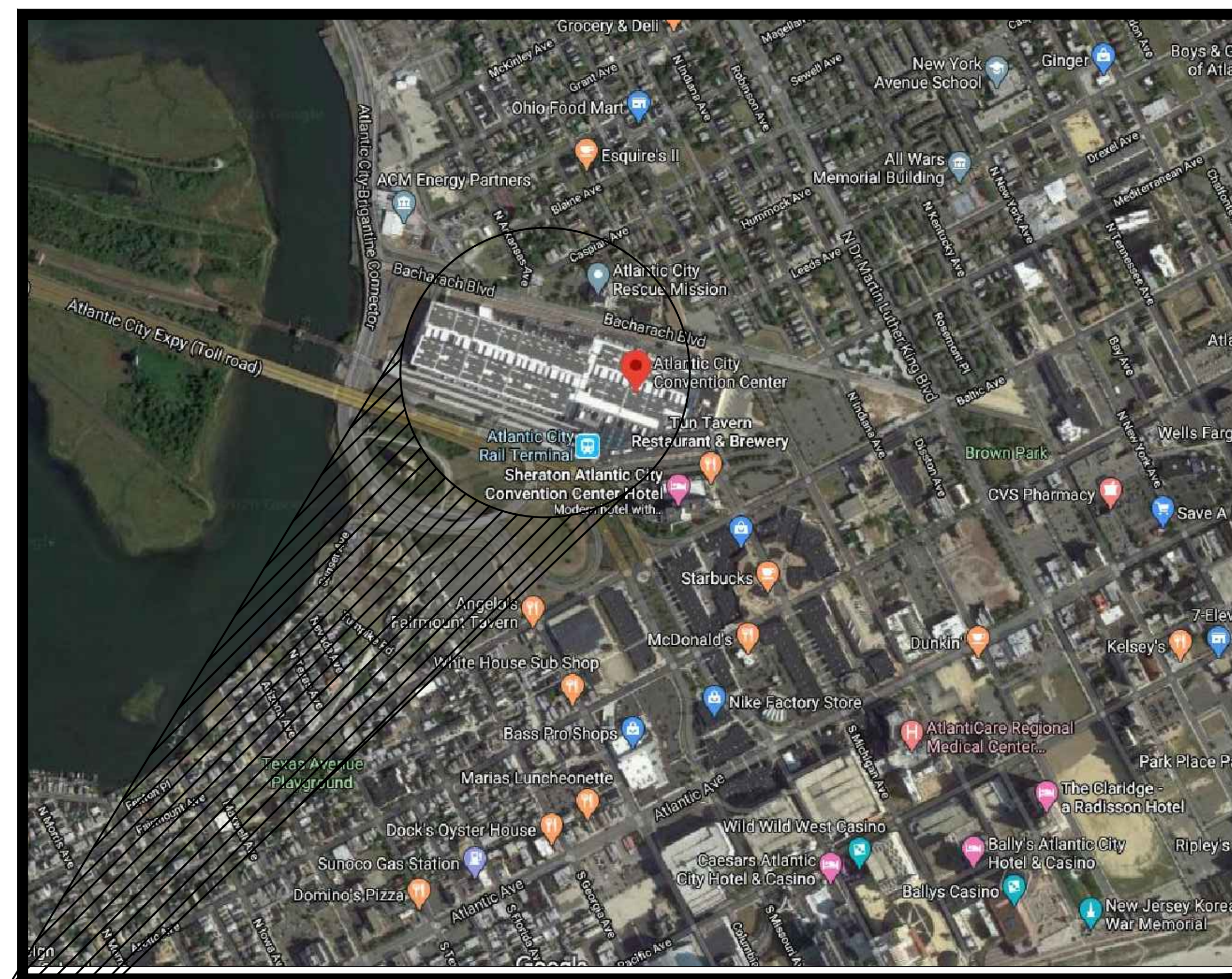


RVE
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SHEET INDEX	
SHEET #	DESCRIPTION
T-1.0	TITLE SHEET
M-1.0	MECHANICAL COVER SHEET
E-1.0	ELECTRICAL COVER SHEET
M/E-1.1	MECHANICAL/ELECTRICAL DEMOLITION GARAGE FLOOR PLAN
M/E-1.2	MECHANICAL/ELECTRICAL DEMOLITION ROOF PLAN
M/E-2.1	MECHANICAL/ELECTRICAL GARAGE FLOOR PLAN
M/E-2.2	MECHANICAL/ELECTRICAL ROOF PLAN
M/E-3.1	MECHANICAL/ELECTRICAL DETAILS
M/E-3.2	MECHANICAL/ELECTRICAL DETAILS
M/E-3.3	MECHANICAL/ELECTRICAL DETAILS



LOCATION MAP
N.T.S.

PROJECT SITE

**1 CONVENTION BOULEVARD,
ATLANTIC CITY, NJ 08401**

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[illegible]

FILE SHEET

ATLANTIC CITY CONVENTION CENTER PARKING GARAGE
VENTILATION CONTROL SYSTEM REPLACEMENT

BY: LM	DESIGN BY: TK	CHECKED BY:	SCALE: AS NOTED
DATE: 07-23-2019		SHEET No. T-1.0	
JOB No.: 3938X003			

FINAL REVIEW
NOT FOR CONSTRUCTION
DATE: 02-21-2020

[illegible]

(ALL GENERAL NOTES, SYMBOLS & ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT)





















































1. EXAMINE JOB SITE AND VERIFY ALL SITE CONDITIONS PRIOR TO SIGNING CONTRACT. BRING ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
2. THE LOCATION OF EXISTING UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES UNLESS OTHERWISE INDICATED.
3. THE DRAWINGS ARE DIAGRAMMATIC. COORDINATE IN THE FIELD, WITH THE ARCHITECT AND WITH ALL TRADES, THE EXACT LOCATION OF EQUIPMENT, FIXTURES, VALVES, THERMOSTATS, ETC. AND ROUTING OF PIPING, DUCTWORK, CONDUIT ETC.
4. PERFORM WORK IN ACCORDANCE WITH RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES HAVING JURISDICTION AND BE RESPONSIBLE FOR COMPLIANCE THEREWITH.
5. OBTAIN ALL NECESSARY APPROVALS, PERMITS AND INSPECTIONS. PAY ALL ASSOCIATED FEES.
6. GUARANTEE ALL SYSTEMS AND WORK FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. GUARANTEE REFRIGERATION COMPRESSORS FOR FIVE (5) YEARS.
7. BEFORE STARTING FABRICATION/ WORK MOVE TO ARCHITECT/ENGINEER FOR APPROVAL #3 (6) COMPLETE SETS OF SHOP DRAWINGS AND PRODUCT DATA FROM MANUFACTURERS, SUPPLIERS, ETC.
8. ALL MATERIALS SHALL BE NEW AND OF COMMERCIAL GRADE AND BEAR THE UNDERWRITER'S LABEL WHERE APPLICABLE.
9. LOCATE ALL EXISTING UTILITIES AND MAKE SERVICEABLE CONNECTIONS TO SAME.
10. COORDINATE WITH THE BUILDING OWNER'S REPRESENTATIVE PRIOR TO ANY INTERRUPTION OF BUILDING SYSTEMS. COORDINATE ACCEPTABLE WORKING HOURS WITH SAME.
11. REMOVE ALL ABANDONED EQUIPMENT, FIXTURES, DUCTWORK, PIPING, CONDUIT, ETC. CAP ALL PIPING ABANDONED IN WALLS.
12. ALL CUTTING AND PATCHING IS BY RESPECTIVE CONTRACTORS. CORE DRILL OR SAW CUT ALL MASONRY AND RESTORE ALL SURFACES TO ORIGINAL CONDITION. PAINTING AND FINISHING ARE BY THE GENERAL CONTRACTOR.
13. PIPING AND SPECIALTIES





























- a. ALL PIPING SHALL CONFORM TO THE REQUIREMENTS OF THE ANSI SAFETY CODE AND BE FREE FROM ALL DEFECTS.
 - b. PROVIDE SLEEVES FOR PIPING THROUGH MASONRY, FIRE RATED WALLS AND SMOKE PARTITIONS. SLEEVES SHALL BE 22 GAUGE OR HEAVIER STEEL, SCHEDULE 40 IN BEARING WALLS. SIZE SLEEVES TO ACCOMMODATE PIPE INSULATION WHERE APPLICABLE. PROVIDE UL LISTINGS FOR SLEEVE PACKING.
 - c. PROVIDE PIPE HANGERS TO SUPPORT PIPING FROM BUILDING STRUCTURE TO MAINTAIN REQUIRED SLOPE, PROVIDE FOR EXPANSION AND CONTRACTION, ISOLATE VIBRATION AND RELIEVE EQUIPMENT AND SPECIALTIES FROM STRAIN. SPACE HANGERS ACCORDING TO APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
 - d. IDENTIFY ALL PIPING WITH SEMIROID OR ADHESIVE PLASTIC IDENTIFICATION MARKERS, EXCEPT WITHIN INACCESSIBLE CHASERS. MARKERS FOR FLOW DIRECTION OF FLOW. MARKERS SHALL BE LOCATED NEXT TO EACH VALVE, AT EACH BRANCH, ON BOTH SIDES OF PIPE PASSAGE THROUGH WALLS AND ON ALL HORIZONTAL PIPING AT 20' MAXIMUM INTERVALS.
 - e. ROUTE ALL PIPING CONCEALED IN WALLS, ABOVE CEILING AND BELOW FLOOR UNLESS OTHERWISE NOTED. RUN PARALLEL WITH BUILDING LINES.
 - f. PROVIDE DRAIN VALVES & PLUGS AT ALL LOW POINTS SUCH THAT PIPING SYSTEMS CAN BE DRAINED. PROVIDE MANUAL AIR VENT VALVES AT ALL HIGH POINTS IN THE SYSTEM.
 - g. PROVIDE BACKFLOW PREVENTION DEVICES AT ALL EQUIPMENT AS REQUIRED BY CODE. UNLESS STATED OTHERWISE PROVIDE CHECK VALVE AND SHUT-OFF VALVE BOTH RATED FOR 250T DOWN STREAM OF BACKFLOW PREVENTER OR BACKFLOW WATER LINE FOR HYDRONIC HEATING WATER SYSTEM.
 - h. PROVIDE DIELECTRIC UNIONS AT ALL JUNCTIONS OF DISSIMILAR METALS.
 - i. ALL SHUTOFF VALVES, CONTROL VALVES, ETC. ARE FULL LINE SIZE UNLESS OTHERWISE NOTED.
 - j. INSTALL PIPING ON WARM SIDE OF BUILDING INSULATION. DO NOT INSTALL PIPING WHERE SUBJECT TO FREEZING.
 - k. ALL PIPING INSULATION SHALL BE CONTINUOUS THROUGH WALLS AND CEILING OPENINGS, SLEEVES AND PIPE HANGERS.
 - l. TEST ALL PIPING IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS, AND INSPECTOR'S REQUIREMENTS PRIOR TO INSULATION OR ENCLOSURE.
 - m. BALANCE ALL HYDRONIC DEVICES FOR FLOW RATES NOTED ON DRAWINGS. PROVIDE BALANCING REPORT TO ARCHITECT/ENGINEER.
 - n. UNLESS STATED OTHERWISE IN THE CONTRACT SPECIFICATIONS, PROVIDE A MINIMUM OF ONE (1) ONE AND A HALF (1-1/2) INCH THICK LAYER OF PREFORMED MINERAL FIBER PIPE INSULATION WITH PREFORMED MINERAL FIBER FITTINGS ON ALL DOMESTIC AND HYDRONIC HEATING SYSTEMS. PROVIDE WATER SUPPLY AND RETURN PIPING, REFRIGERANT PIPING AND CONDENSATE DRAIN PIPING. INCLUDE A FIELD APPLIED FOIL AND PVC JACKET WITH VAPOR BARRIER AS PART OF THE INSULATION ASSEMBLY.
 - o. UNLESS STATED OTHERWISE, ALL UNDERGROUND PIPING SHALL BE INSTALLED WITH POLYETHYLENE ENCASEMENT (PE) FOR CORROSION RESISTANCE.
 - p. UNLESS STATED OTHERWISE ALL FUEL GAS VENT PIPING TO BE SA-53X30R CARBON STEEL. ALL VENT PIPING TO BE MINIMUM 1/2" FINISH IN A COLOR ACCEPTABLE TO THE OWNER.
14. DUCTWORK AND SPECIALTIES
- a. ALL DUCTWORK TO BE IN ACCORDANCE WITH S.M.A.C.N.A. "H.V.A.C. DUCT CONSTRUCTION STANDARDS", LATEST EDITION. PRESSURE CLASS "B".
 - b. ALL DUCTWORK TO BE CONSTRUCTED OF GALVANIZED STEELMETAL.
 - c. PROVIDE 45 DEGREE COLLARS AT ALL BRANCH CONNECTIONS. PROVIDE TURNING VAMES AT ALL ELBOWS 12"46" OR LARGER. PROVIDE STANDARD RADIUS ELBOWS 12"46" OR LARGER. PROVIDE TURNING VAMES AT ALL ELBOWS 12"46" OR LARGER.
 - d. PROVIDE ALL VOLUME DAMPERS REQUIRED TO BALANCE THE SYSTEMS. INSTALL VOLUME DAMPERS AT BRANCH TAKE-OFFS FROM TRUNK.
 - e. PROVIDE CURTAIN TYPE FIRE DAMPERS WHEREVER DUCT PENETRATES FIRE RATED PARTITIONS. UNITS SHALL PROVIDE NOT LESS THAN 90% FREE AREA. PROVIDE ACCESS DOORS AT ALL FIRE DAMPERS.
 - f. TEST DUCT SYSTEMS FOR AIR TIGHTNESS AND ABSENCE OF AUDIBLE LEAKS BEFORE ENCLOSURE.
 - g. BALANCE ALL AIR DEVICES FOR AIR QUANTITIES NOTED ON DRAWINGS. PROVIDE BALANCING REPORT TO ARCHITECT/ENGINEER.
 - h. FLEXIBLE DUCTS: ALL FLEXIBLE DUCTS SHALL BE IN COMPLIANCE WITH THE INTERNATIONAL MECHANICAL CODE/2015.
 - i. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT PIPING DIMENSIONS BEFORE FABRICATION.
 - j. PROVIDE FIRE DAMPERS IN THE DUCTWORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND THE CONTRACT DOCUMENTS.
 - k. UNLESS STATED OTHERWISE IN THE CONTRACT SPECIFICATIONS, PROVIDE A MINIMUM OF ONE (1) TWO AND ONE HALF (2-1/2) INCH THICK LAYER OF PREFORMED MINERAL FIBER INSULATION WITH PREFORMED MINERAL FIBER FITTINGS ON ALL EXHAUST AIR, RETURN AIR AND OUTDOOR AIR DUCTWORK. INCLUDE A FIELD APPLIED PAPER AND FOIL JACKET WITH VAPOR RETARDER AS PART OF THE INSULATION ASSEMBLY.
 - l. UNLESS STATED OTHERWISE IN THE CONTRACT SPECIFICATIONS, PROVIDE A MINIMUM OF ONE (1) TWO (2) INCH THICK LAYER OF PREFORMED MINERAL FIBER INSULATION WITH PREFORMED MINERAL FIBER FITTINGS ON ALL EXHAUST AIR, RETURN AIR AND OUTDOOR AIR DUCTWORK. INCLUDE A WEATHERPROOF FIELD APPLIED 22 GAUGE MINERAL JACKET WITH VAPOR RETARDER AS PART OF THE INSULATION ASSEMBLY. COORDINATE FINISH COLOR OF EXTERIOR JACKET WITH THE OWNER.
 - m. UNLESS OTHERWISE NOTED, EXPOSED STEELWORK, RETURN AND EXHAUST AIR DUCTWORK SHALL BE PRIMED AND PAINTED. COLOR TO BE DETERMINED BY THE ENGINEER/ OWNER.



1. VERIFY ALL ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.
2. ALL MECHANICAL ELECTRICAL AND APPLIANCE INSTALLATIONS SHALL BE IN COMPLIANCE WITH INTERNATIONAL MECHANICAL CODES AND ALL U.S. LISTED MANUFACTURER'S RECOMMENDATIONS.
3. ALL ELECTRICAL POWER WIRING IS BY ELECTRICAL CONTRACTOR. ALL CONTROL WIRING IS BY RESPECTIVE CONTRACTOR.
4. PROVIDE OWNER WITH OPERATION AND MAINTENANCE MANUALS FOR INSTALLED EQUIPMENT. INCLUDE CONTRACTOR'S SUPPLIER'S AND MANUFACTURER'S NAMES, ADDRESS AND TELEPHONE NUMBERS.
5. SUPPLY STARTERS AND DISCONNECTS WITH EQUIPMENT.
6. PROVIDE CONCRETE PADS FOR FLOOR MOUNTED EQUIPMENT. PADS SHALL BE A MINIMUM 4" HIGH AND SHALL EXTEND 6" BEYOND EQUIPMENT ON ALL SIDES.
7. LABELING. ALL MECHANICAL EQUIPMENT AND APPLIANCES SHALL BEAR LABELING IN COMPLIANCE WITH THE INTERNATIONAL MECHANICAL CODE 2015.
8. UNLESS NOTED OTHERWISE, ALL HYDRONIC SYSTEMS BOILER/ CHILLED WATER SHALL BE PROVIDED WITH A NEW FILL/CHARGE EXPANSION TANK REQUIRED. TANK TO BE SIZED FOR EACH SYSTEM BASED UPON TANK MANUFACTURER'S RECOMMENDATIONS.
9. UNLESS OTHERWISE NOTED CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL PROPYLENE GLYCOL ANTIFREEZE FOR ALL HYDRONIC HEATING AND COOLING SYSTEMS. THE CONTRACTOR SHALL SUPPLY A 35% CONCENTRATION OF SOLUTION OF 65% WATER. CHILLED WATER COOLING SYSTEMS SHALL SUPPLY A 25% CONCENTRATION OF PROPYLENE GLYCOL IN SOLUTION FOR HOT WATER HEATING SYSTEMS. PROPYLENE GLYCOL ANTIFREEZE SHALL BE COMPATIBLE WITH ALL MATERIALS OF THE HYDRONIC SYSTEM (PIPING, VALVES, PUMPS, CHILLER, BOILER, ETC) AS WELL AS ALL TERMINAL EQUIPMENT.
10. AUTOMATIC TEMPERATURE AND SAFETY CONTROLS
- a. PROVIDE ALL WRING, RELAYS, CONTACTS, TRANSFORMERS, ETC. REQUIRED TO DELIVER A COMPLETE OPERABLE SYSTEM.
- b. THERMSTATS SHALL BE 24 HOUR/7 DAY PROGRAMMABLE WITH FAN "OFF/ON/AUTO" AND SYSTEM "HEAT/COOL/AUTO/OFF" SWITCHES. VERIFY OPERATION OF ALL FUNCTIONS.
11. FIRE PROTECTION
- a. THE QUANTITY AND LOCATION OF SPRINKLERS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND INTENDED FOR SCHEMATIC PURPOSES ONLY. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING AND COMMISSIONING ALL NECESSARY SPRINKLERS, PIPE, EQUIPMENT AND APPURTENANCES NECESSARY, IN FULL CONFORMANCE WITH THE NFPA AND APPROVED BY THE ENGINEER AND ALL AUTHORITIES HAVING JURISDICTION.
- b. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE DETAILED DESIGN DRAWINGS, HYDRAULIC CALCULATIONS, PIPING FITTINGS, SPRINKLERS, ALARM AND MONITORING DEVICES, SIGNAGE AND APPURTENANCES COMPLETE AND IN FULL ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND NFPA 13 & 14. ALL WRING OF DEVICES SHALL BE DONE BY ELECTRICAL CONTRACTOR.
- c. ALL SPRINKLER HEADS SHALL BE LOCATED AT THE CENTER POINT OF ALL ACUSTICAL CEILING TILES.
- d. ALL EXISTING PLUMBING, HVAC AND ELECTRICAL EQUIPMENT AND MATERIALS THAT ARE EITHER EXPOSED OR CONCEALED AND THAT ARE IN CONFLICT WITH THE NEW SYSTEMS SHALL BE REMOVED. THE SYSTEMS SHALL BE REMOVED, RELOCATED, REROUTED, OR ABANDONED. DRAWINGS GENERALLY INDICATE MAJOR ITEMS OF EXISTING MATERIALS AND EQUIPMENT THAT ARE AFFECTED. IT IS NOT POSSIBLE TO INDICATE ALL RELATED ACCESSORIES, SPECIALTIES AND OTHER RELATED ITEMS; HOWEVER, THEIR REMOVAL, RELOCATION, REROUTING AND ABANDONMENT SHALL BE REQUIRED FOR THIS WORK.
- e. EXISTING CONCEALED PLUMBING, HVAC AND ELECTRICAL EQUIPMENT AND MATERIALS THAT ARE TO REMAIN BUT BEING EXPOSED DUE TO RENOVATION WORK, SHALL BE RELOCATED AND RECONNECTED AS PART OF THIS WORK.
12. PLUMBING DRAWINGS ARE DIAGRAMATIC. ALL DEVICES & FITTINGS MAY NOT BE SHOWN ON THE DRAWINGS FOR CLARITY. PROVIDE THE GUARD TO CLEAR THE BASE OF ALL VERTICAL WASTE & STORM WATER STACKS IN ACCORDANCE WITH NSPC 2015 SECTION 5.4.4.5.
13. GUARDS SHALL BE PROVIDED WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS THAT REQUIRE SURFACE AND ROOF HATCH OPENINGS ARE LOCATED WITHIN 12 FEET OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE. BALANCE THE NEW SYSTEM WITH THE EXISTING. GUARDS SHALL BE LOCATED TO THE FLOOR, ROOF OR GRADE LEVEL. THE GUARD SHALL EXTEND NOT LESS THEN 30 INCHES BEYOND EACH END OF SUCH APPLIANCES, EQUIPMENT, FANS, COMPONENTS AND ROOF HATCH OPENINGS AND THE TOP OF THE GUARD SHALL BE LOCATED NOT LESS THEN 42 INCHES ABOVE THE SURFACE TO WHICH IT IS ADJACENT TO THE GUARD. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 2 INCH-DIAMETER SPHERE AND SHALL COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN A INTERNATIONAL BUILDING CODE 2015.
14. PROVIDE FOR ALL MECHANICAL EQUIPMENT, FAN AND MOTOR PULLEYS, SHEAVES, BELTS AND LABOR REQUIRED. BALANCE THE NEW SYSTEM WITH THE EXISTING. PROVIDE THE SPECIFIED SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR FLOWS SHOWN ON THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE OWNER. THE TESTING, ADJUSTING AND BALANCING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED PULLEYS, SHEAVES AND BELTS. ANY BELT OR PULLEY ARE TO BE REPLACED AT THE CONTRACTOR'S EXPENSE.
15. UNLESS OTHERWISE NOTED CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL CONNECTION/ TRANSITION DUCTS BETWEEN NEW HVAC EQUIPMENT (UNIT VENTILATORS, BLOWER COILS, FAN COILS, AIR HANDLERS, ETC.) AND OR EXISTING OUTSIDE AIR LOUVERS. CONTRACTOR IS ALSO RESPONSIBLE FOR REINFORCING ANY OUTSIDE AIR LOUVER

	EQUIPMENT MARK (TYPE FC, NUMBER 1)
	SECTION INDICATOR (SECTION B2 ON DWG. H1.3)
	DETAIL INDICATOR (DETAIL B2 ON DWG. H1.3)
	KEY NOTE INDICATOR (REFERS TO NOTES ON SAME SHEET)
	REVISIONS INDICATOR
	PIPE RISER (RISER HWS-11 ON DWG. H1.3)
	DUCT RISER (RISER E-1 ON DWG. H1.3)
	DIFFUSER/REGISTER/GRILLE MARK (TYPE A, 150 CFM, CONNECTION)
	DOOR UNDERCUT
	TRANSFER AIR
	DIAMETER
	CONNECTION TO EXISTING
	POINT OF DISCONNECTION
	FLAT OVAL DUCT DIMENSION
	INSIDE DUCT DIMENSION (IN INCHES, FIRST DIMENSION IS AS SHOWN)
	SOUND LINED DUCTWORK
	SUPPLY DUCT TURNED UP
	SUPPLY DUCT TURNED DOWN
	RETURN/EXHAUST DUCT TURNED UP
	RETURN/EXHAUST DUCT TURNED DOWN
	SQUARE ELBOW (WITH TURNING VANES)
	ROUND ELBOW
	SPIN-IN WITH VOLUME DAMPER FOR ROUND DUCT
	TAKE OFF WITH VOLUME DAMPER FOR RECTANGULAR DUCT
	OPEN END DUCT WORK WITH VMS
	EXISTING DUCT WORK OR EQUIPMENT
	DUCT WORK TO BE REMOVED & EXISTING DUCTWORK TO BE MOVED
	EXISTING DUCTWORK TO BE RELOCATED
	FLEXIBLE DUCTWORK (DOUBLE LINE)
	FLEXIBLE DUCTWORK (SINGLE LINE)
	SUPPLY DIFFUSER
	SUPPLY AIR DIFFUSER WITH 3 DIRECTION DISCHARGE (BLACK TRIANGLE INDICATED BLANK OFF)
	RETURN/EXHAUST REGISTER OR GRILLE
	SLOT DIFFUSER WITH PLENUMS
	EXHAUST FAN
	ELECTRIC BASEBOARD
	VOLUME DAMPER (MANUAL)
	BACKDRAFT DAMPER
	FIRE DAMPER
	MOTORIZED DAMPER
	MOTORIZED SMOKE/FIRE DAMPER
	CARBON MONOXIDE SENSOR
	THERMOSTAT
	HUMIDISTAT
	SENSOR
	DUCT DETECTOR
	BALL VALVE
	BUTTERFLY VALVE
	GATE VALVE

AF	ACCESS DOOR	LGR	LINEAR RETURN GRILLE
ADJ	ADJUSTABLE	LSP	LINEAR SUPPLY REGISTER
ABU	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
AH	AIR HANDLER UNIT	MH	MANHOLE
AP	ACCESS PANEL	MSB	MCP SERVICE BASIN
B	BOLTER	MJ	MAKE-UP AIR UNIT
BFB	BELOW FINISHED FLOOR	MV	MIXING VALVE (THERMOSTATIC)
BCF	BACKFLOW PREVENTOR	N	NORMALLY CLOSED
BD	BOTTOM OF DUCT	NO	NORMALLY OPEN
BCI	BOTTOM OF LOUVER	NPS	NOT TO SCALE
CD	CONDENSATE	OA	OUTSIDE AIR
CI	CAST IRON	P	PUMP
CD	CEILING DIFFUSER	RA	RETURN AIR
CG	CEILING EXHAUST GRILLE	RD	ROOF DRAIN
CER	CEILING EXHAUST REGISTER	RR	RADIANT HEATER
CFH	CUBIC FEET PER HOUR	RPPB	REDUCED PRESSURE BACKFLOW PREVENTOR
CFM	CUBIC FEET PER MINUTE	RW	RAIN WATER CONDUCTOR
CO	CLEANOUT	S	SINK/SANITARY PIPING
COG	CLEANOUT ON GRADE	S-02'	SLOPE
CD	CONDENSATE PIPING	SS	SUPPLY AIR
CON	CONTINUED	SD	SPLITTER DAMPER
CRG	CEILING RETURN GRILLE	SH	SHOWER
CRV	CEILING RETURN REGISTER	SP	SPRINKLER PIPING
CS	CIRCUIT SETTER VALVE	SS	SOIL STACK
CT	CEILING TOWER	ST	STORM PIPING
CTC	CEILING TOWER RETURN	STM	STEAM PIPING
CTS	COOLING TOWER SUPPLY	SV	STACK VENT
CU	CONDENSING UNIT	SW	SAFESWITE
CUH	CABINET UNIT HEATER	T	TUB
CWS	COLD WATER SUPPLY	TAG	TRANSFER AIR GRILLE
CWS/R	COLD WATER SUPPLY/RETURN	TD	TOP OF DUCT
D	DRINKING FOUNTAIN	TP	TRAP PRIMER
DFU	DRAINAGE FIXTURE UNITS	TR	TRANSITION
DN	DOWN	TWR	TEMPERED WATER RETURN
EA	EXHAUST AIR	TWS	TEMPERED WATER SUPPLY
E	ELECTRIC BASEBOARD HEATER	U	UNIT
EF	EXHAUST FAN	UH	UNIT HEATER
EF	ELECTRIC WATER COOLER	UR	URINAL
EW	ELECTRIC WATER HEATER	V	VENT
EX	EXISTING	VAV	VARIABLE AIR VOLUME
FC	FLEXIBLE CONNECTION/FAN COIL	VO	VOLUME DAMPER
FOD	FLOOR CLEANOOUT	VF	VERIFY IN FIELD
FRG	FLOOR DRAIN	VS	VENT STACK
FRG	FLOOR RETURN GRILLE	VTR	VENT THRU ROOF
FR	FLOOR RETURN REGISTER	W	WATER CLOSET
G	GAS PIPING	WC	WALL CLEANOUT
GV	GRAVITY VENTILATOR	WEG	WALL EXHAUST GRILLE
H	HOSE BIBB	WH	WALL EXHAUST REGISTER
HP	HAND DRAIN	WHAR	WATER HAMMER ARRESTOR
HB	HEAT PUMP	WHY	WALL HYDRANT
HW	HOT WATER	WMS	WREMSH SCREEN
HWC	HANDICAPPED WATER CLOSET	WR	WALL RETURN GRILLE
HW	HOT WATER GENERATOR	WRS	WALL RETURN REGISTER
HWS	HOT WATER HEATER	WSFU	WALL SUPPLY FIXTURE UNIT
HWH	HOT WATER HEATER	WSG	WALL SUPPLY GRILLE
HW	HOT WATER SUPPLY	WSR	WALL SUPPLY REGISTER
HX	HEAT EXCHANGER		
L	LOUVER		
LAV	LAVATORY		
LBG	LINEAR BAR GRILLE		
LD	LINEAR DIFFUSER		
LF	LINEAR FEET		

	PRESSURE/TEMPERATURE TEST PLUG
	PRESSURE GAUGE
	GAUGE/COCK
	THERMOMETER
	PRESSURE TEMPERATURE TAP
	EXISTING HYDRONIC CONTROL VALVE
	HOSE BIBB DRAIN VALVE
	INSULATED PIPE
	VERTICAL VALVE
	CIRCUIT SETTER
	FLOW METER (MAGNETIC)
	FLOW METER (VENTURI)
	BALL JOINT
	SUCTION DIFFUSER
	PIPE ANCHOR
	PIPE GUIDE
	UNION
	VACUUM BREAKER
	CAP AND VALVED
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER STRAIGHT INVERT
	ECCENTRIC REDUCER STRAIGHT CROWN
	METER (SEE CONNECTED PIPING FOR TYPE OF SERVICE)
	CHAIN OPERATOR
	MOTOR OPERATOR
	FLOAT
	PUMP
	CLEANOUT
	FLOOR DRAIN WITH P-TRAP
	FUNNEL DRAIN
	TRAP
	DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER
	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
	HOSE BIBB
	FROSTPROOF HOSE BIBB
	WATER HAMMER ARRESTOR
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	TEE TURN UP
	TEE TURNED DOWN
	PIPE TURNED UP
	PIPE TURNED DOWN
	KEY SWITCH
	BUSHING
	FLEXIBLE PIPE CONNECTION
	MANUAL AIR VENT
	CONCEALED SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	REFRIGERANT SUCTION ROUTE
	REFRIGERANT LIQUID ROUTE
	DOMESTIC COLD WATER PIPE

	LOCK SHIELD GATE VALVE
	GLOBE VALVE
	ANGLE GLOBE VALVE
	PLUG VALVE
	OS & Y GATE VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	PRESSURE RELIEF VALVE
	TEMPERATURE & PRESSURE RELIEF VALVE
	CALIBRATED BALANCE VALVE
	AUTOMATIC FLOW CONTROL VALVE
	SWING CHECK VALVE
	SPRING LOADED CHECK VALVE
	ALARM CHECK VALVE
	COMBINATION CHECK/BALANCE/SHUT OFF VALVE
	NEEDLE VALVE
	PRESSURE REGULATOR
	BACK PRESSURE REGULATOR
	DIAPHRAGM VALVE
	SOLENOID VALVE
	FLOW SWITCH
	PRESSURE SWITCH
	VALVE MONITOR SWITCH
	STRAINER
	BLOW-OFF STRAINER
----- DOMESTIC HOT WATER PIPE	
----- DOMESTIC HOT WATER RETURN PIPE	
— SAN —	SANITARY SEWER
— SAN — — —	SANITARY SEWER BELOW GRADE OR SLAB
— ST —	STORM SEWER
— ST — — —	STORM SEWER BELOW GRADE OR SLAB
— V — — —	PLUMBING VENT
— D —	DRAIN PIPE
— F —	FIRE PROTECTION PIPE
— CH —	CHEMICAL FEED PIPE
— EX —	EXPANSION TANK PIPE
— HHWS —	HEATING HOT WATER SUPPLY PIPE
— HHWR —	HEATING HOT WATER RETURN PIPE
— CHWS —	CHILLED WATER SUPPLY PIPE
— CHWR —	CHILLED WATER RETURN PIPE
— CWS —	CONDENSER WATER SUPPLY PIPE
— CWR —	CONDENSER WATER RETURN PIPE
— COND —	CONDENSATE WATER PIPING
— A —	COMPRESSED AIR PIPE
— VAC —	VACUUM PIPE
— G —	NATURAL GAS PIPING
— AW —	ACID WASTE PIPING
— FO —	FUEL OIL PIPING
	PIPING TO BE DEMOLISHED
	EMERGENCY BOILER SHUTOFF
	SOUND ATTENUATOR

 REDUCED PRESSURE ZONE BACKFLOW PREVENTER
 DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER

RVE

1901

**REMINGTON
& VERNICK
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	REVISION	

<div>MECHANICAL COVER SHEET</div>				SPECTRA VENUE MANAGEMENT	
				ATLANTIC CITY CONVENTION CENTER PARKING GARAGE VENTILATION CONTROL SYSTEM REPLACEMENT	
ATLANTIC CITY		ATLANTIC COUNTY		NEW JERSEY	
DRAWN BY: MM	DESIGN BY: TK	CHECKED BY:	SCALE: AS NOTED		
DATE: 07-23-2019 ECR No.: 3038X0003		SHEET No.: <div>M-1.0</div>			

**FINAL REVIEW
NOT FOR CONSTRUCTION**
DATE: 02-21-2020

ELECTRICAL SYMBOLS

(ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT)

	2'x4' LED LIGHT FIXTURE (A – INDICATES FIXTURE TYPE)
	2'x4' LED EMERGENCY LIGHT FIXTURE
	2'x2' LED LIGHT FIXTURE
	2'x2' LED EMERGENCY LIGHT FIXTURE
	1'x4' LED LIGHT FIXTURE
	1'x4' LED EMERGENCY LIGHT FIXTURE
	DOWNLIGHT LED LIGHT FIXTURE
	EMERGENCY DOWNLIGHT LED LIGHT FIXTURE
	WALL MOUNTED LED LIGHT FIXTURE
	EMERGENCY WALL MOUNTED LED LIGHT FIXTURE
	SURFACE MOUNTED LED LIGHT FIXTURE
	EMERGENCY SURFACE MOUNTED LED LIGHT FIXTURE
	SITE/PATHWAY LIGHT
	EXIT SIGN (SHADED AREA INDICATES FACE) (ARROW INDICATES DIRECTION) XW – WALL MOUNTED XC – CEILING MOUNTED
	DUAL HEAD EMERGENCY BATTERY BACKUP
	DUAL REMOTE ADJUSTABLE HEADS
	SWITCH, SINGLE POLE TOGGLE (WP – WEATHERPROOF)
	SWITCH, 3-WAY TOGGLE
	SWITCH, 4-WAY TOGGLE
	SWITCH, DIMMER
	SWITCH, KEY OPERATED
	SWITCH, PILOT LIGHT
	SWITCH, LOW VOLTAGE
	SWITCH, EMERGENCY BOILER OFF,
	FRACTIONAL HP STARTER
	OCCUPANCY SENSOR – P – PASSIVE INFRARED U – ULTRASONIC
	TIME CLOCK – D – DUAL TECHNOLOGY
	PHOTOCELL
	MOTOR
	CIRCUIT BREAKER IN ENCLOSURE
	EXPOSED RACEWAY
	LOW VOLTAGE WIRING
	CONDUIT CONCEALED IN WALLS OR CEILING
	EMERGENCY CIRCUIT
	CONDUIT CONCEALED IN OR UNDER FLOOR OR UNDERGROUND
	FLEXIBLE CONNECTION TO EQUIPMENT
	HOMERUN – CIRCUIT & PANEL AS INDICATED (2#12 + 1#12G, 3/4" C, UNLESS OTHERWISE NOTED)
	CABLE TRAY
	SURFACE RACEWAY, WIREMOLD
	FIRE ALARM PULL STATION
	FIRE ALARM STROBE LIGHT – (XXcd – CANDELLA RATING, G–GUARD.)
	FIRE ALARM HORN
	COMBINATION FIRE ALARM SPEAKER/STROBE – (XXcd – CANDELLA RATING)
	PHOTO-ELECTRIC TYPE SMOKE DETECTOR
	HEAT DETECTOR (COMBINATION FT/RR U.O.N., A–ANTICIPATOR TYPE, AC–ABOVE CEILING.)
	COMBINATION HEAT/SMOKE (G–GUARD.)
	PHOTO-ELECTRIC TYPE DUCT SMOKE DETECTOR
	HORN LOUDSPEAKER (WP – WEATHERPROOF)
	REMOTE KEY PAD
	ELECTRONIC DOOR LOCK
	REQUEST TO EXIT PUSH BUTTON
	CREDENTIAL READER
	FIRE ALARM CONTROL PANEL
	REMOTE ANNUNCIATOR PANEL
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	MAGNETIC DOOR HOLDER

ABBREVIATIONS

PERCENT	MANUF., MFR.
PHASE	MAX.
CENTIGRADE DEGREES	MB
FAHRENHEIT DEGREES	MCB
SINGLE CONDUCTOR	MCC
AIR CIRCUIT BREAKER	MCM
AMPERES INTERRUPTING CAPACITY	MDS
AUTOMATIC TEMPERATURE CONTROL	MDP
AUTOMATIC TRANSFER SWITCH	MECH.
AIR CONDITION	MET.
ALTERNATING CURRENT	MF
ADDITIONAL	MFG
AMPERE FRAME	MIN.
A–F	MISC
ABOVE FINISHED FLOOR	MTD.
ABOVE FINISHED GRADE	MTO
AIR HANDLING UNIT	N
ALUMINUM	NC
AMP.	NEC
APPROX.	NEMA
ARCH.	NO
AT	NO. #
ASY.	NOT TO SCALE
AUXILIARY	NIGHT LIGHT CIRCUIT
BELL W/ FINISHED CEILING	NF.
BREAKER	POLE
BUILDING	P
BASEMENT	P.B. P
BSMT.	P.NL
C	PORCELAIN
C. OF U	PRI.
C.T., CT	PS
CB, CIR, BKR., C/B	PAINTED
CKT., CIR, CIR	PVC
CURRENT TRANSFORMER	R
CIRCUIT BREAKER	RAP
CLOSED CIRCUIT TELEVISION	REAR.
CIRCUIT	REC.
CLOSET	RCPT.
CEILING	REQ'D
COMPANY	REQUIRED
COAXIAL CABLE	REV.
COLUMN	R.F.
COMP.	RGA
COND.	RGS
CONDUCTOR	RM
CONN.	RT
CONST.	R.T.
CONTR.	S.S.
COORD.	SEC.
CORR.	SECT.
CPU	SEP.
CT	SERV.
COPPER CONDENSING UNIT	SIG.
CONDENSING UNIT	SK.
CU	SOLID NEUTRAL
CUBIC FEET	SQ.
CLOCKWISE, COOL WHITE	SQ.
DEPTH	STA.
DEM.	SURF.
DIA.	SURP.
DISC	SUSPENDED
DIV.	SW.
DN.	SWBD
DPST	SYMMETRIC
DRAW., DWG.	TC
E.C.	TEL
E.C.F. EF	THRU
E.H.	TRANS./XFMR
E.P.R.	TRANSFORMER
E.W.	TRANSIENT VOLTAGE SURGE SUPPRESSOR
EA.	TYSS
EHT.	U
ELEC. CLO.	U.S.
ELECTRICAL CLOSET	U.S.
ELECTRIC	U.S.
ELEV./ELEV.	U.S.
EM	U.S.
EMT	U.S.
ENCL.	U.S.
ENT.	U.S.
EMERG.	U.S.
EQUIP.	U.S.
EST.	U.S.
EX.	U.S.
EXT.	U.S.
F.A.	U.S.
FACP	U.S.
F.E.	U.S.
F.O.	U.S.
FDN.	U.S.
FIG.	U.S.
FIN.	U.S.
FIXT.	U.S.
FLOOR	U.S.
FLA	U.S.
FLEX.	U.S.
F.L.M.C.	U.S.
FLUORESCENT	U.S.
FOOTCANDLE	U.S.
FEET	U.S.
FUSE/FUSED	U.S.
GA.	U.S.
GAGE/GAUGE	U.S.
GALV.	U.S.
GEN.	U.S.
GFCI	U.S.
GFI	U.S.
GROUND FAULT CIRCUIT INTERRUPTER	U.S.
GROUND FAULT INTERRUPTER	U.S.
GND., G	U.S.
H.O.A.	U.S.
H.P.S.	U.S.
HEX.	U.S.
HANDHOLE	U.S.
HORIZ.	U.S.
HORSEPOWER	U.S.
HPF	U.S.
HEIGHT	U.S.
HOT WATER HEATER	U.S.
HZ.	U.S.
HERTZ	U.S.
IMC	U.S.
INTERMEDIATE CONDUIT	U.S.
INCANDESCENT	U.S.
INSULATION/INSULATED	U.S.
ISOL.	U.S.
IAP	U.S.
INTRUSION ALARM PANEL	U.S.
INTRUSION ALARM KEYPAD	U.S.
JUNCTION BOX	U.S.
THOUSAND AMPERES INTERRUPTING CAPACITY	U.S.
KILOVOLT	U.S.
KNOCKOUT	U.S.
KILOWATT	U.S.
KW	U.S.
KILOWATT HOUR	U.S.
KMH	U.S.
KILOHERTZ	U.S.
KILOVOLT	U.S.
KV	U.S.
KILOVOLT–AMPERE	U.S.
KVA	U.S.
LENGTH	U.S.
LINEAR FEET	U.S.
LONG	U.S.
LOOKED ROTOR AMPERES	U.S.
LRA	U.S.
LT.	U.S.
LIGHTING	U.S.
L.T.G.	U.S.
M.L.O.	U.S.
M/C	U.S.

MANUF., MFR.

MAX.

MB

MCB

MCC

MCM

MDS

MDP

MECH.

MET.

MF

MFG

MIN.

MISC

MTD.

MTO

N

NC

NEC

NEMA

NO

NO. #

NOT TO SCALE

NIGHT LIGHT CIRCUIT

NF.

POLE

P

P.B. P

P.NL

PORCELAIN

PRI.

PS

PAINTED

PVC

R

RAP

REAR.

REC.

RCPT.

REQ'D

REQUIRED

REV.

R.F.

RGA

RGS

RM

RT

R.T.

S.S.

SEC.

SECT.

SEP.

SERV.

SIG.

SK.

SOLID NEUTRAL

SQ.

SQ.

STA.

SURF.

SURP.

SUSPENDED

SW.

SWBD

SYMMETRIC

TC

TEL

THRU

TRANS./XFMR

TRANSFORMER

TRANSIENT VOLTAGE SURGE SUPPRESSOR

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GENERAL NOTES

1. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, THE SPECIFICATIONS FOR GROUNDS, THE CONTRACT DRAWINGS, FEDERAL, STATE AND LOCAL CODES AND TO THE SATISFACTION OF THE ENGINEER. ALL GROUNDS CONNECTIONS TO BE MADE BY THE CADWELD PROCESS OR EQUAL.
2. ALL CONDUITS AND ELECTRICAL EQUIPMENT ARE SHOWN DIAGRAMMATICALLY AND MAY BE ALTERED TO SUIT FIELD CONDITIONS PENDING ENGINEER'S APPROVAL.
3. ALL PLANS ELEVATIONS AND CLEARANCES SHALL BE CHECKED IN THE FIELD PRIOR TO INSTALLATION TO AVOID ALL OBSTRUCTIONS.
4. ALL JUNCTION BOXES SHALL BE OF SUFFICIENT SIZE TO PROVIDE FREE SPACE FOR ALL CONDUCTORS ENCLOSED IN THE BOX AND SHALL BE SIZED WITH THE LATEST N.E.C. ARTICLE 314.
5. ALL DIMENSIONS ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
6. CONTRACTOR SHALL CHECK FOR OBSTRUCTIONS AND CLEAN OUT ALL CONDUITS PRIOR TO PULLING IN CABLES.
7. PHASING OF ALL ELECTRICAL CONDUITS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE MADE IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY REQUIREMENTS.
8. ALL HOLES THROUGH STRUCTURE TO ACCOMMODATE ELECTRICAL CONDUITS SHALL BE CORE DRILLED AND SEALED WITH NON-SHRINK GROUTING COMPOUND, WHERE RACEWAYS PASS THROUGH FLOORS AND FIRE RATED WALLS AND/OR PARTITIONS, CONTRACTOR SHALL FURNISH UL RATED FIREPROOFING MATERIAL TO BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND RESTORE ORIGINAL FIRE RATING.
9. THE CONTRACTOR SHALL FURNISH STRUCTURAL SUPPORT FOR ALL EQUIPMENT. FOR SURFACE MOUNTED EQUIPMENT, SUCH AS PANELBOARDS, STARTERS, SAFETY SWITCHES AND THE LIKE, PROVIDE "UNISTRUT" WITH CORROSION RESISTANT MOUNTING HARDWARE.
10. NO CONDUIT SMALLER THAN 3/4" SHALL BE USED UNLESS OTHERWISE SPECIFIED.
11. ALL JOINTS BETWEEN DISSIMILAR METALS SHALL BE COATED WITH A LITHIUM BASED THREAD LUBRICANT.
12. RACEWAYS SHALL BE PROVIDED WITH AN APPROVED EXPANSION-DEFLECTION FITTINGS WHERE CROSSING BUILDING CONSTRUCTION EXPANSION JOINTS AND WHERE NECESSARY TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION.
13. FURNISH AND INSTALL CONCRETE PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
14. PRIOR TO SUBMITTING PROPOSALS, BIDDERS ARE INSTRUCTED TO REVIEW PLANS AND SPECIFICATIONS AND CONDUCT A SITE INVESTIGATION OF ALL CONCURRENT WORK TO DETERMINE QUANTITIES OF LABOR AND MATERIAL NECESSARY TO INSTALL, CONNECT, AND TEST MATERIAL FURNISHED UNDER THESE SPECIFICATIONS. ANY ADDITIONAL LABOR AND MATERIAL REQUIRED DUE TO FAILURE OF THE CONTRACTOR TO FOLLOW THESE INSTRUCTIONS, SHALL BE FURNISHED AT NO ADDITIONAL COST TO THE OWNER.
15. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER CONTRACTORS EMPLOYED ON THIS PROJECT PRIOR TO ROUGHING IN. THE CONTRACTOR SHALL OBTAIN AND REVIEW APPROVED SHOP DRAWINGS OF ALL OTHER TRADES AFFECTING ALL ELECTRICAL WORK.
16. THE CONTRACTOR SHALL CHECK AND TORQUE TIGHTEN ALL CONNECTIONS, WHETHER FACTORY MADE OR MADE UNDER THIS CONTRACT, USING ACCURATELY CALIBRATED TOOLS. TORQUE SETTINGS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFIC RECOMMENDATIONS.
17. INSTALL AN 1/8" INCH POLY PROPYLENE (PULL-IN-ROPE) IN ALL SPARE CONDUITS.
18. INSULATED COPPER CONDUCTORS FOR EQUIPMENT, BE ROUNDED WITH ALL POWER CONDUCTORS.
19. CONDUCTORS USED FOR CONTROL WIRING SHALL BE AT LEAST NO. 14 AWG AND ALL POWER CONDUCTORS SHALL BE AT LEAST NO. 12 AWG UNLESS OTHERWISE SPECIFIED.
20. CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY EQUIPMENT AND EXERCISE PRECAUTIONARY PROCEDURES WHEN WORKING WITH OR NEAR ENERGIZED EQUIPMENT.
21. CONTRACTOR SHALL REMOVE ALL OBSOLETE EQUIPMENT, CONDUITS AND WIRING, EXCEPT WHERE OTHERWISE NOTED.
22. INTERRUPTION OF SERVICE SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER AND HELD TO MINIMUM IN ORDER TO MAINTAIN THE PROPER OPERATION OF THE FACILITY.
23. WHEN CONDUIT OR CABLE RUNS FOR POWER AND LIGHTING EXCEED 60 FT. FOR 120 VOLT OR 120 FT. FOR 277 VOLT TO CENTER OF LOAD, NO. 10 AWG WIRE OR LARGER SHALL BE USED AS REQUIRED FOR A MAXIMUM 2% VOLTAGE DROP AT FULL CIRCUIT CAPACITY.
24. HEAVY LINE WEIGHT SYMBOLS AND TEXT INDICATE NEW WORK UNLESS OTHERWISE NOTED. LIGHT LINE WEIGHT SYMBOLS AND ITALIZED TEXT INDICATE EXISTING CONDITIONS TO REMAIN UNLESS OTHERWISE NOTED.
25. CONTRACTOR SHALL SALVAGE ALL DEMOLISHED EQUIPMENT AND VERIFY WITH OWNER PRIOR TO DISPOSING OF THE DEMOLISHED EQUIPMENT.
26. CONTRACTOR SHALL COORDINATE THE REMOVAL AND INSTALLATION OF ALL DEVICES ASSOCIATED WITH SURVEILLANCE, COMMUNICATIONS, AND CONTROL OF THE FACILITY WITH THE OWNER.
27. CONTRACTOR IS FULLY RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS RELATIVE TO THE SCOPE OF WORK. ANY DISCREPANCIES WITHIN THE DESIGN TO THE EXISTING CONDITIONS AND/ OR EQUIPMENT SHALL BE PRESENTED TO THE ENGINEER PRIOR TO PRODUCT DATA SUBMITTAL REVIEW & INSTALLATION.

WIRE & CONDUIT SIZING SCHEDULE

WIRE SIZE (AWG/KCMIL)	NO. OF WIRES & CONDUIT SIZE IN INCHES
O.K.T. CONDUCTOR TYPE & NEUTRAL	B
1 14	2W+G 3W+G 4W+G
2 12	3/4 3/4 3/4
3 10	3/4 3/4 3/4
4 8	3/4 3/4 3/4
5 6	3/4 1 1
6 4	10 1 1-1/4 1-1/4
7 4	8 1 1-1/4 1-1/4
8 3	8 1-1/4 1-1/4 1-1/4
9 2	8 1-1/4 1-1/4 1-1/2
10 1	6 1-1/4 1-1/2 2
11 1	6 1-1/4 1-1/2 2
12 1/0	6 1-1/2 2 2
13 2/0	6 2 2 2
14 3/0	6 2 2 2-1/2
15 4/0	2 2 2-1/2 2-1/2
16 250 KCMIL	2 2 2-1/2 2-1/2
17 300 KCMIL	2 2 2-1/2 2-1/2
18 350 KCMIL	2 2 2-1/2 3
19 400 KCMIL	1/0 2 2-1/2 3
20 500 KCMIL	1/0 2-1/2 3 3-1/2
21 (2) 4/0	(2) 2 --- (2) 2 (2) 2-1/2
22 (2) 250 KCMIL	(2) 2 --- (2) 2 (2) 2-1/2
23 (2) 350 KCMIL	(2) 1 --- (2) 2-1/2 (2) 3
24 (2) 500 KCMIL	(2) 1/0 --- (2) 3 (2) 3-1/2
25 (3) 300 KCMIL	(3) 1/0 --- (3) 2-1/2 (3) 3
26 (3) 400 KCMIL	(3) 2/0 --- (3) 3 (3) 3
27 (3) 500 KCMIL	(3) 3/0 --- (3) 3 (3) 3-1/2
28 (4) 350 KCMIL	(4) 3/0 --- (4) 2-1/2 (4) 3
29 (4) 500 KCMIL	(4) 4/0 --- (4) 3 (4) 3-1/2
30 (5) 400 KCMIL	(5) 4/0 --- (5) 3 (5) 3
31 (5) 500 KCMIL	(5) 250 --- (5) 3 (5) 3-1/2
32 (6) 400 KCMIL	(6) 250 --- (6) 3 (6) 3-1/2
33 (7) 500 KCMIL	(7) 350 --- (7) 3 (7) 3-1/2
34 (8) 500 KCMIL	(8) 400 --- (8) 3 (8) 3-1/2

THE ABOVE SCHEDULE IS BASED ON 600 VOLT WIRE TYPE 90C THHN/THWN/XXHH. THE FOLLOWING IS A SAMPLE OF WIRE AND CONDUIT READOUT FROM ABOVE SCHEDULE:

$$(2A) = (2)\#12AWG, (1)\#12GRD IN 3/4" C.$$

STANDARD MOUNTING HEIGHTS

MOUNTING HEIGHTS FOR EQUIPMENT SHALL BE AS LISTED BELOW UNLESS OTHERWISE SPECIFICALLY LABELED. (UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO THE CENTERLINE OF BOXES.)	
SWITCHES	3'-8" A.F.F.
TELEPHONE – WALL TYPE	3'-8" A.F.F.
TELEPHONE – DESK TYPE	1'-6" A.F.F.</



CHRISTOPHER A. SAPONARO
PROFESSIONAL ENGINEER LIC. No. 40059



2. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
3. THIS DEMOLITION PLAN HAS BEEN PROVIDED AS A GUIDE. HOWEVER, ALL DEMOLITION REQUIREMENTS TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE AND THE CONTENTS OF THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURELY AND COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKSMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL AND COMPLETE DEMOLITION OF THE EXISTING MECHANICAL SYSTEMS, THE CONTRACTOR SHALL INFERRED THEREFROM, THE COST OF SUCH WORKSMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.
4. THE CONTRACTOR SHALL VERIFY THE EXISTING MECHANICAL EQUIPMENT WITH THE ELECTRICAL AND HVAC CONTRACTS/CONTRACTORS. SEE THE SPECIFICATIONS AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. DEMOLISH ALL ASSOCIATED CONTROL WIRING, CONDUIT, SUPPORTS, CONTROL DEVICES, AND ELECTRICAL POWER METERING EQUIPMENT.
6. CONTRACTOR TO PERFORM DEMOLITION WORK IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. COORDINATE ALL EQUIPMENT TO BE SALVAGED WITH THE OWNER PRIOR TO DISPOSAL. OWNER HAS THE RIGHT TO FIRST REFUSAL FOR ALL DEMOLISHED EQUIPMENT AND MATERIALS.
7. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND REPLACING ANY OR ALL FIXTURES AND/OR AREAS OF THE CEILING, FLOOR OR WALL DAMAGED AS A RESULT OF THE NEW/DEMOLITION WORK. REPAIRED AND REPLACED FIXTURES AND PORTIONS OF THE CEILING, FLOOR OR WALL SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR ORIGINAL CONDITION.
8. CONTRACTOR SHALL TAKE PRE-DEMOLITION AIRFLOW MEASUREMENTS FOR EACH EXISTING SUPPLY REGISTER AND SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL. PRE-DEMOLITION AIRFLOW MEASUREMENTS AND SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL.
9. THE QUANTITY AND LOCATION OF EXISTING SUPPLY REGISTERS AS SHOWN IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS IN THE FIELD.
10. LOCATION OF EXISTING GAS VALVES AND CONTRACTORS ARE APPROXIMATE.
11. CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS IN THE FIELD.

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[illegible]

SPECTRA VENUE MANAGEMENT	ATLANTIC CITY	ATLANTIC COUNTY	NEW JERSEY
ATLANTIC CITY CONVENTION CENTER PARKING GARAGE VENTILATION CONTROL SYSTEM REPLACEMENT			

DRAWN BY: JM	DESIGN BY: TJ	CHECKED BY: 	SCALE: AS NOTED
DATE: 07-23-2019		SHEET No.: 	
JOB No.: 393BX003		M/E-1.1	

**FINAL REVIEW
NOT FOR CONSTRUCTION**
DATE: 03-31-2020

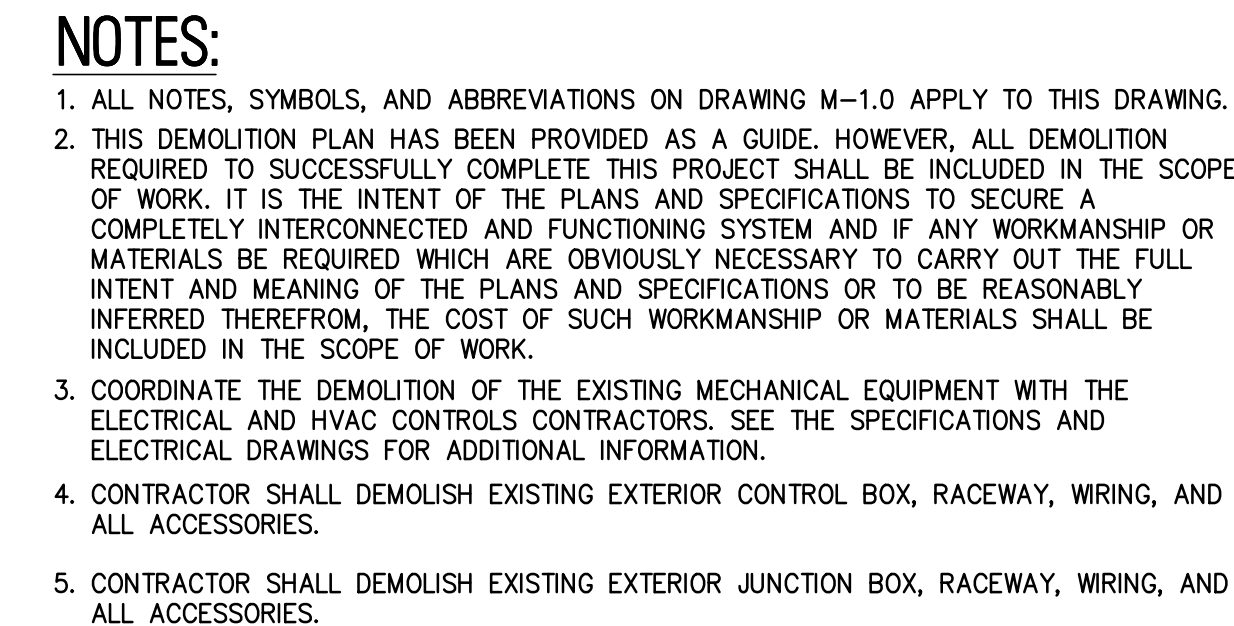
DATE: 02-21-2020



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[illegible]

BY: LM	DESIGN BY: TK	CHECKED BY:	SCALE: AS NOTED
DATE: 07-23-2019		SHEET No.: M/E-1.2	
JOB No.: 3938X003			

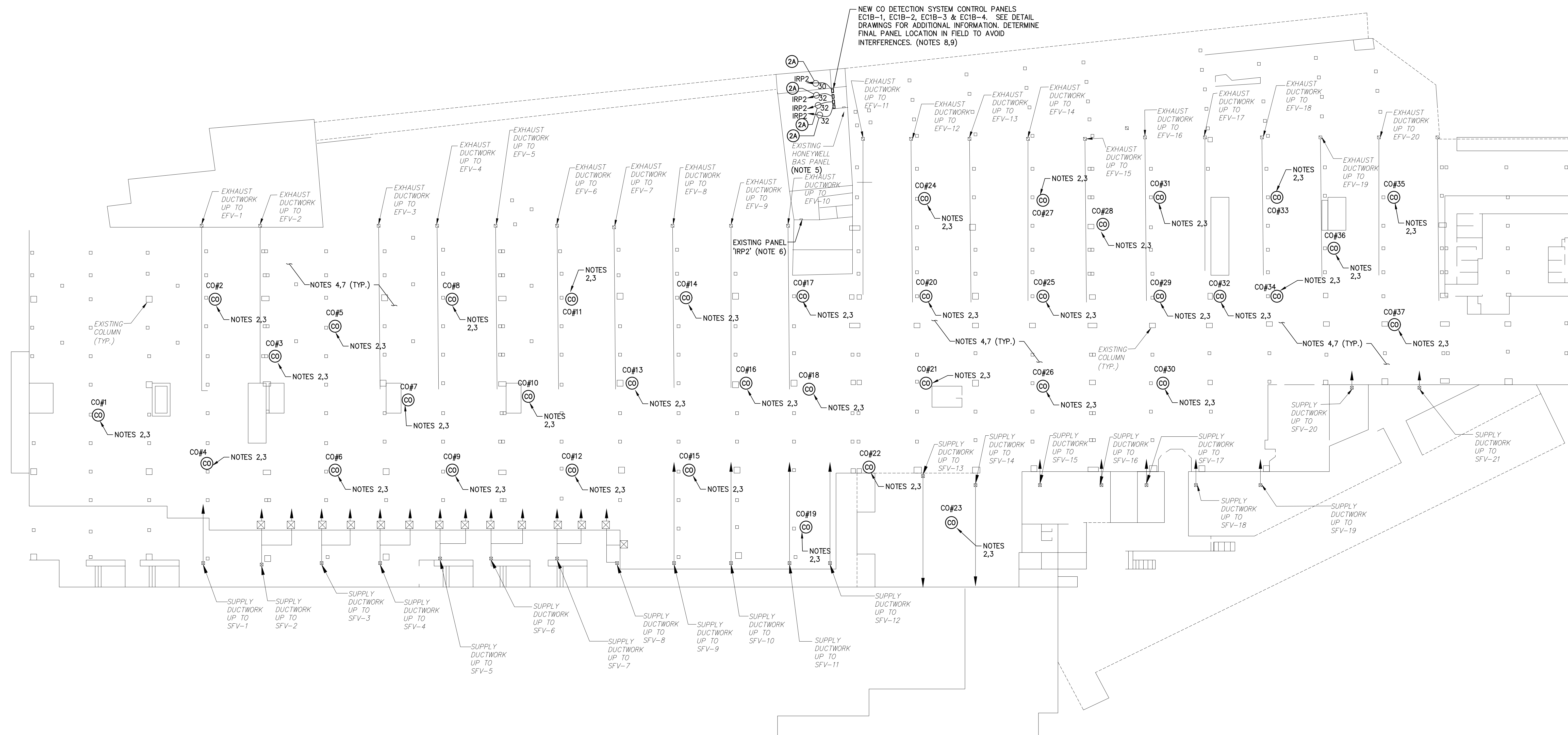


1 MECHANICAL/ELECTRICAL DEMOLITION ROOF PLAN
SCALE: 1"=50'-0"

**FINAL REVIEW
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DATE: 02-21-2020



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1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. PROVIDE NEW HONEYWELL CARBON MONOXIDE DETECTOR MODEL E33M WITH E33CO SENSOR CARTRIDGE. INSTALL SENSOR APPROX. 5'-0" ABOVE FLOOR. DETERMINE FINAL LOCATION IN CONFORMANCE WITH FINAL SEISMIC ANALYSIS AND LAYOUT TO PROVIDE GAS DETECTION COVERAGE THROUGHOUT THE ENTIRE GARAGE AREA IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE NEW CONTROL WIRING AND NEW 24V POWER WIRING FOR EACH AREA PROPOSED TO BE PROTECTED BY NEW DETECTOR. BACK TO VENTILATION SYSTEM CONTROL PANELS. SEE DETAIL SHEETS FOR ADDITIONAL INFORMATION.
4. NOT ALL VENTILATION CONTROL SYSTEM DEVICES HAVE BEEN SHOWN ON THE PLANS FOR THE PURPOSES OF PROVIDING ADDITIONAL INFORMATION. PROVIDE DETECTOR, RELAY, AND CONTROL DEVICES, WIRING, ETC. AS REQUIRED FOR SYSTEM INSTALLATION AND OPERATION EVEN IF THE COMPONENT IS NOT SPECIFICALLY SHOWN ON THE PLANS OR DETAILS.
5. PROVIDE SEAMLESS INTEGRATION OF THE NEW GAS DETECTION SYSTEM INTO THE EXISTING HONEYWELL E33M FOR MONITORING AND CONTROL. PROVIDE DETECTOR, RELAY, AND CONTROL DEVICES, ALL PROGRAMMING, WIRING, CONTROL DEVICES, SOFTWARE, PANELS, FIELD DEVICES, ETC. REQUIRED FOR SEAMLESS INTEGRATION INTO THE GAS AND CONTROL OF THE NEW GAS DETECTION SYSTEM FOR THE ENTIRE GARAGE AREA.
6. CONTRACTOR SHALL CONFIRM EXISTING SPARE BREAKERS IN EXISTING PANEL "RP2" PRIOR TO DEMOLITION AND PROVISION OF NEW WORK.
7. PROVIDE NEW FIELD RELAYS IN SIMILAR LOCATION OF EXISTING RELAY PANELS. THE APPROXIMATE LOCATION OF THE EXISTING RELAY PANELS IS SHOWN ON DRAWING M-1.1. THE LOCATION OF THE NEW RELAYS IS NOT SHOWN FOR CLARITY. CONTRACTOR SHALL REUSE EXISTING 480V FEEDERS FOR EXISTING FAN MOTORS. SEE DETAILS DRAWINGS FOR ADDITIONAL INFORMATION.
8. PROVIDE (2) NEW 20A/1P BRANCH CIRCUIT BREAKERS IN EXISTING PANEL "RP2" TO THE FEED GAS DETECTION SYSTEM. CONNECT EACH W/ (2) #AWG, (1) #2AWG GROUND IN 3/4" CONDUIT.
9. CONNECT EC1B-1 TO CIRCUIT RP2A-30 AND EC1B-2A/3A TO CIRCUIT RP2-32.

[illegible]

SPECTRA VENUE MANAGEMENT

ATLANTIC CITY CONVENTION CENTER PARKING GARAGE
VENTILATION CONTROL SYSTEM REPLACEMENT

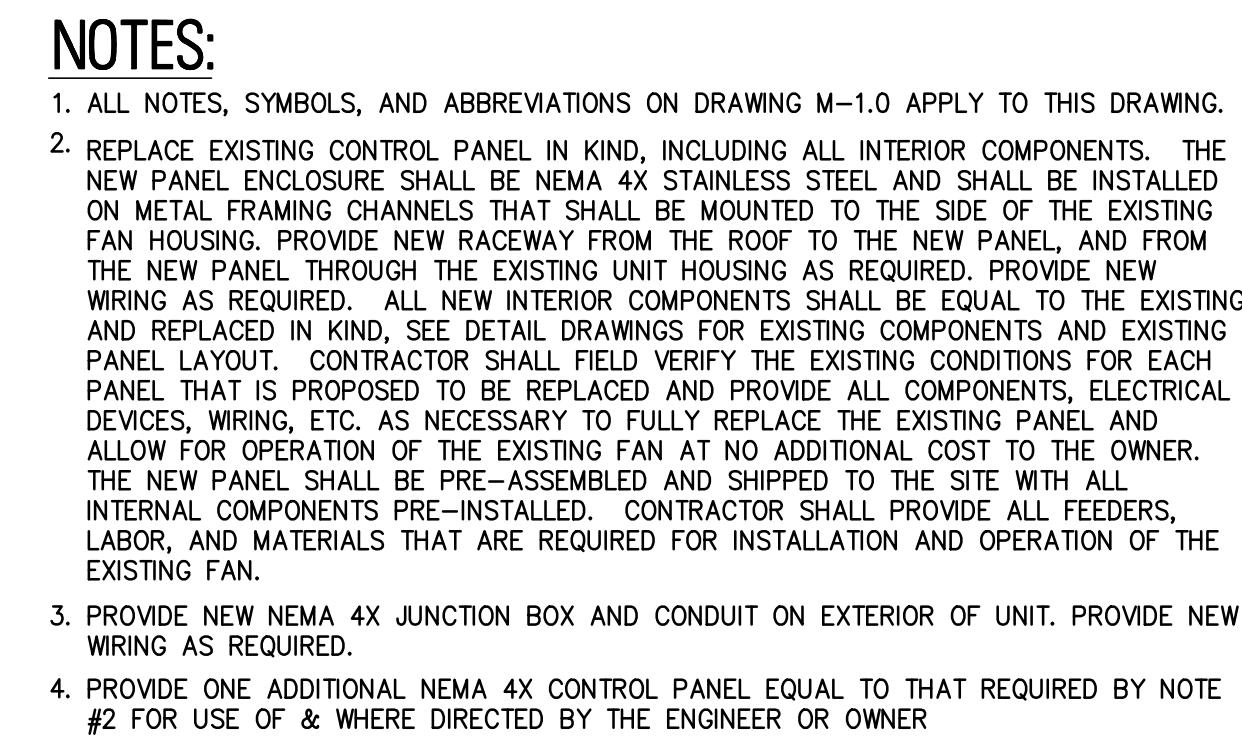
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BY: LM	DESIGN BY: TK	CHECKED BY:	SCALE: AS NOTED
DATE: 07-23-2019		SHEET No.: M/E-2.1	
JOB No.: 3938X003			

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[illegible]

SPECTRA VENUE MANAGEMENT

ATLANTIC CITY CONVENTION CENTER PARKING GARAGE
VENTILATION CONTROL SYSTEM REPLACEMENT

ATLANTIC CITY ATLANTIC COUNTY NEW JERSEY

FINAL REVIEW
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DATE: 02-21-2020

[illegible]

Sr.No.	CO Sensor tag	GARAGE VENTILATION FAN/SENSOR MATRIX																							
		SVF-10	EFV-11	SVF-12	EFV-12	SVF-13	EFV-13	SVF-14	EFV-14	SVF-15	EFV-15	SVF-16	EFV-16	SVF-17	EFV-17	SVF-18	EFV-18	SVF-19	EFV-19	SVF-20	EFV-20	SVF-21	EFV-21		
19	CO-19	X	X	X	X																				
20	CO-20			X	X	X	X																		
21	CO-21			X	X	X	X																		
22	CO-22			X	X	X	X																		
23	CO-23					X	X	X	X																
24	CO-24					X	X	X	X																
25	CO-25							X	X	X	X														
26	CO-26								X	X	X	X													
27	CO-27						X	X	X	X	X														
28	CO-28								X	X	X														
29	CO-29									X	X	X													
30	CO-30											X	X		X		X								
31	CO-31											X	X		X		X								
32	CO-32												X	X		X									
33	CO-33												X	X		X									
34	CO-34													X	X		X		X						
35	CO-35														X	X		X		X					
36	CO-36															X	X		X		X				
37	CO-37																			X	X	X	X		

N.T.S.

BY: UM	DESIGN BY: TK	CHECKED BY:	SCALE: AS NOTED
DATE: 07-23-2019		SHEET No.: M/E-3.1	
JOB No.: 3938X003			



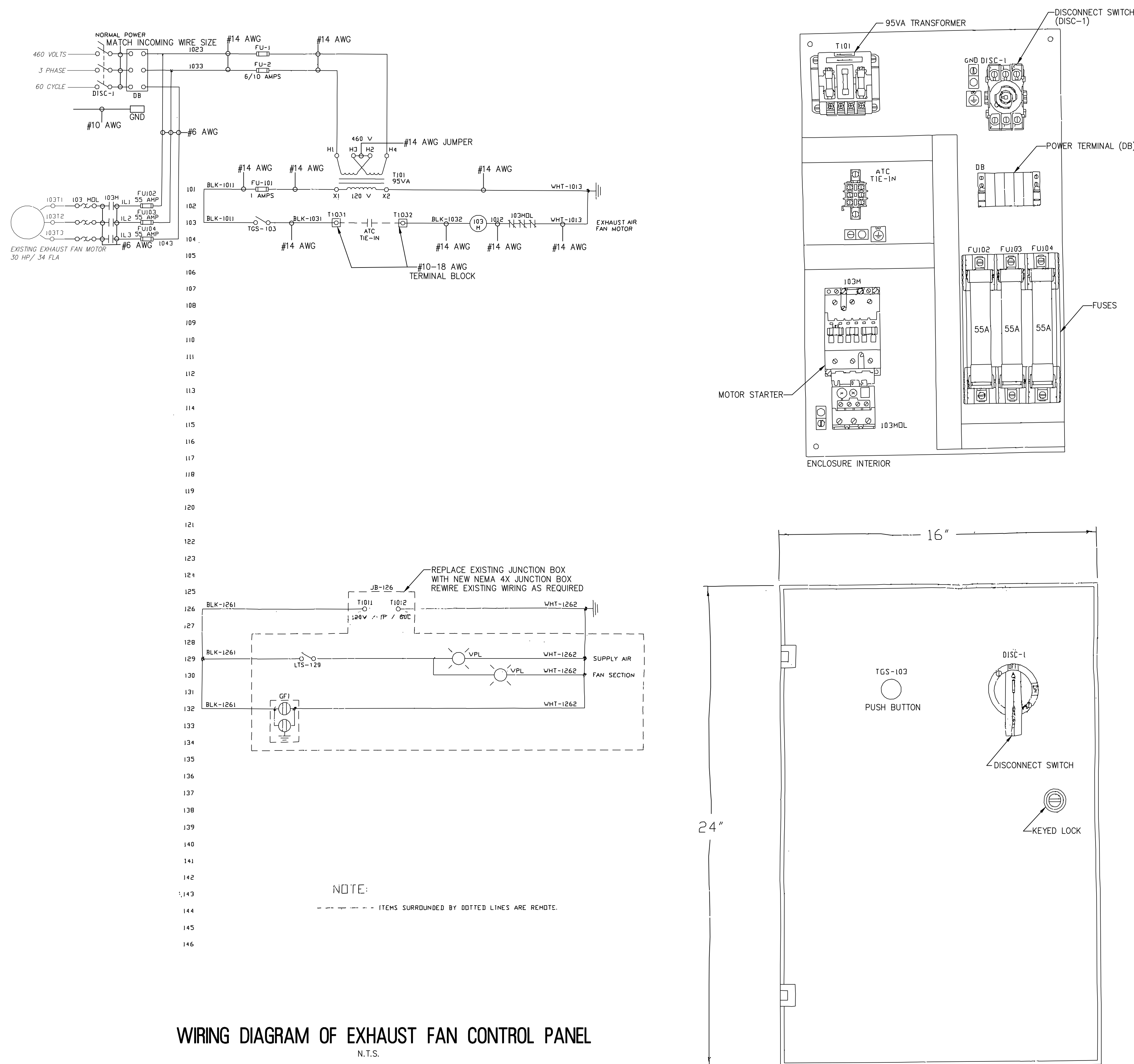
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[illegible]

MECHANICAL/ELECTRICAL DETAILS	SPECTRA VENUE MANAGEMENT
ATLANTIC CITY CONVENTION CENTER PARKING GARAGE VENTILATION CONTROL SYSTEM REPLACEMENT	ATLANTIC CITY NEW JERSEY

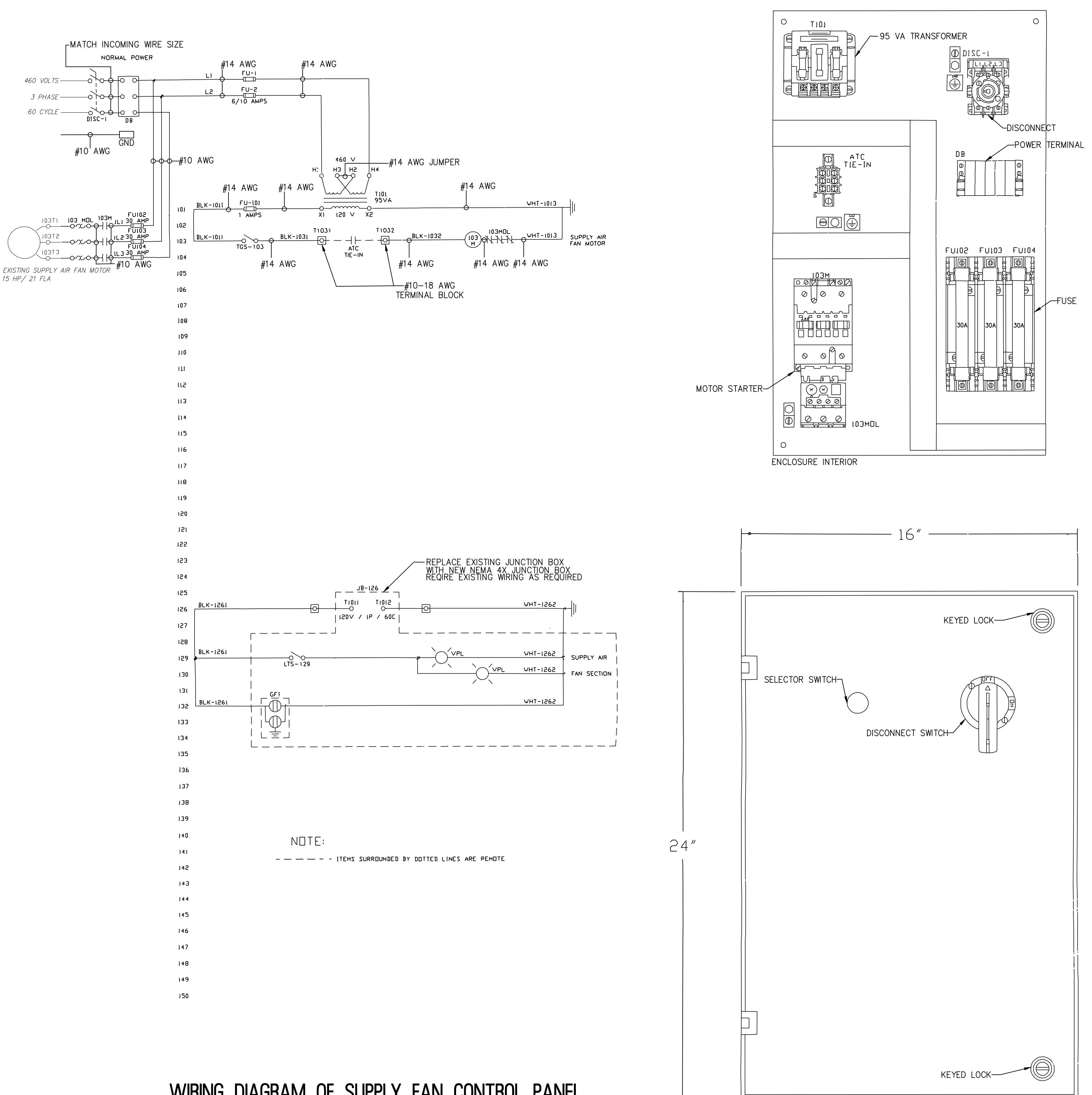
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DATE: 07-23-2019		SHEET No.: M/E-3.3	
JOB No.: 3938X003			



NEMA 4X EXHAUST FAN CONTROL PANEL ENCLOSURE
N.T.S.

EXISTING EXHAUST FAN CONTROL PANEL DETAIL (TYP. EFV-1 THRU EFV-21)

- NOTES:
1. THE EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE FOR CONVENIENCE PURPOSES AND HAVE BEEN PROVIDED FOR REFERENCE ONLY. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND PROVIDE ALL COMPONENTS NECESSARY TO REPLACE THE EXISTING PANELS IN KIND AND ALLOW FOR PROPER OPERATION OF THE EXHAUST FANS IN ACCORDANCE WITH THE SEQUENCE OF OPERATION AND ALL APPLICABLE CODES AND STANDARDS. SEE DRAWING M-2.2 FOR ADDITIONAL INFORMATION.
 2. COORDINATE WITH BAS CONTROLS CONTRACTOR/MANUFACTURER FOR COMPONENTS REQUIRED FOR BAS SYSTEM INTEGRATION.



WIRING DIAGRAM OF SUPPLY FAN CONTROL PANEL

NEMA 4X SUPPLY FAN CONTROL PANEL ENCLOSURE
N.T.S.

EXISTING SUPPLY FAN CONTROL PANEL DETAIL (TYP. SFV-1 THRU SFV-21)

- NOTES:
1. THE EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE FOR CONVENIENCE PURPOSES AND HAVE BEEN PROVIDED FOR REFERENCE ONLY. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND PROVIDE ALL COMPONENTS NECESSARY TO REPLACE THE EXISTING PANELS IN KIND AND ALLOW FOR PROPER OPERATION OF THE EXHAUST FANS IN ACCORDANCE WITH THE SEQUENCE OF OPERATION AND ALL APPLICABLE CODES AND STANDARDS. SEE DRAWING M-2.2 FOR ADDITIONAL INFORMATION.
 2. COORDINATE WITH BAS CONTROLS CONTRACTOR/MANUFACTURER FOR COMPONENTS REQUIRED FOR BAS SYSTEM INTEGRATION.

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