

3-D REPRESENTATION FOR ILLUSTRATIVE PURPOSES ONLY, REFER TO DRAWINGS AND DETAILS PROJECT CONTACTS

OWNER:

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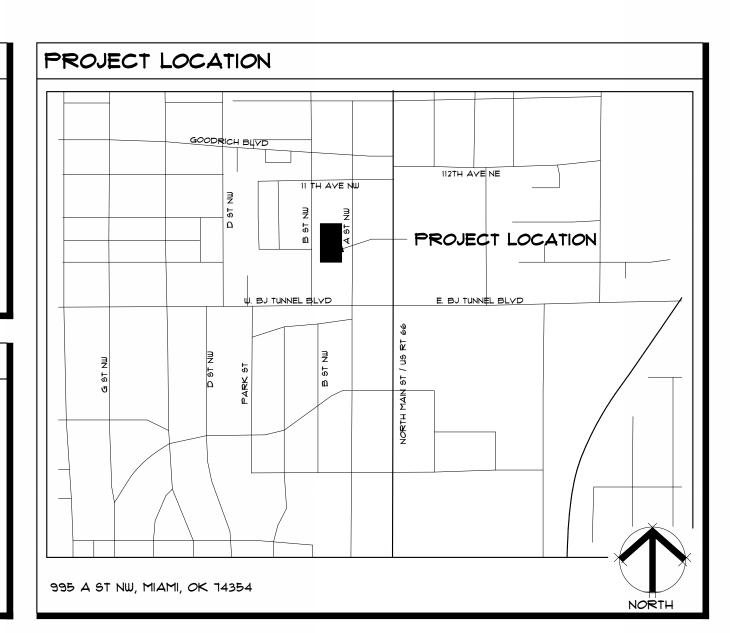
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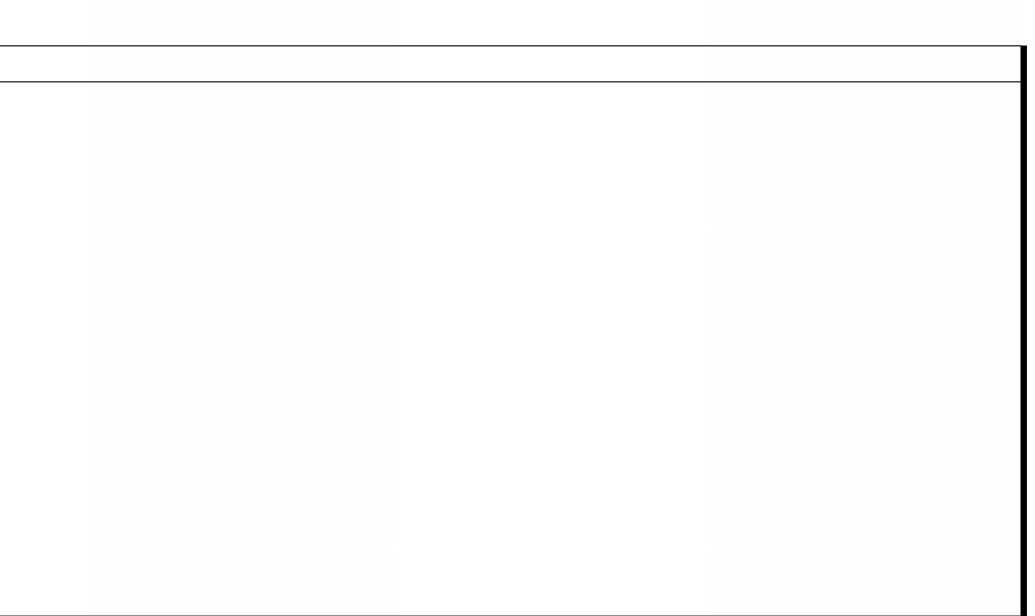
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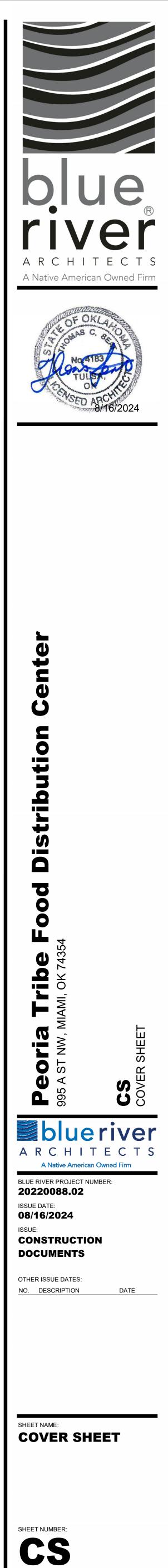
PEORIA TRIBE FOOD DISTRIBUTION CENTER - EXTERIOR ENVELOPE

CONSTRUCTION DOCUMENTS 08/16/2024



	SHEET INDEX
SHEET NUMBER	SHEET NAME
GENERAL	
CS	COVER SHEET
G001	PROJECT INFORMATION
	RAL
AD1 <i>00</i>	DEMOLITION ROOF PLAN AND EXTERIOR ELEVATIONS
A141	ROOF PLAN
A2 <i>0</i> 1	EXTERIOR ELEVATIONS \$ WINDOW ELEVATIONS
MECHANICAL	
MP001	
MIØI	MECHANICAL ROOF PLAN
M501	MECHANICAL DETAILS AND SCHEDULES
ELECTRICAL	
E001	ELECTRICAL GENERAL NOTES AND SYMBOLS
EIØI	ELECTRICAL - DEMOLITION PLAN OVERALL
E131	POWER PLAN
E132	ELECTRICAL MECHANICAL ROOF PLAN
E5 <i>0</i> 1	ELECTRICAL DETAILS
E601	ELECTRICAL ONE-LINE DIAGRAM
E611	ELECTRICAL SCHEDULES & PANELBOARDS





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VIEW TITL	$= A \frac{\text{TITLE}}{1/8" = 1'-0"}$
	1/8" = 1'-0" REF FROM: R / RIØI
	SECTION AND
BUILDING	
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PLAN OF	ED FLOOR R PLAN REFERENCE
	MATCHLINE
	SEE 1 / AIØI
LEVEL N	
DOOR T.	AG \$ RATING 101 20
WINDOW	
SIOREF	RONT TAG
MATERI	AL TAG
EQUIPM	ENT TAG
PLAN N	
GRAPH	
ELEVATION HEIGHT S	
CENTER	
ALIGN FII	
REVISION \$ TAG	
	RAL DEFINITIONS
ALIGN	TO ACCURATELY LOCATE FACE BASED ON ADJACENT ITEMS OR CONSTRUCTION.
	MINIMUM DIMENSION BETWEEN FINISHED CONDITION, SHALL BE TREATED AS A PRIORITY TO HOLD BEFORE OTHER DIMENSIONS.
	THE CONDITION MAY NOT VARY TO A DIMENSION GREATER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT.
	THE CONDITION MAY NOT VARY TO A DIMENSION SMALLER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT.
SIMILAR	NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES. DETAILS AND NOTES ARE TYPICAL. SIMILAR DETAILS AND NOTES APPLY IN SIMILAR CONDITIONS. THE WORD "SIMILAR" MEANS THAT ITEMS IN EACH CASE ARE TO BE SEPARATELY WORKED OUT TO SUIT CONDITIONS IN A MANNER LIKE OR SIMILAR TO THE EXAMPLE REFERRED TO AND DOES NOT MEAN IDENTICAL.
TYPIC AL	

TYPICAL THE CONDITION APPLIES TO THE SAME CONDITIONS THROUGHOUT UNLESS NOTED OTHERWISE.

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	GENERAL NOTES ARE TYPICAL FOR AREAS OF WORK. REFER TO COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR ALL PROJECT NOTES. THE CONTRACT DOCUMENTS IN THEIR ENTIRETY ARE THE RESPONSIBILITY OF ALL TRADES. WHERE REQUIREMENTS ARE SHOWN IN ONE SECTION OF THE SPECIFICATIONS OR DRAWINGS BUT NOT ANOTHER, THE CONTRACTOR IS NOT RELIEVED FROM PROVIDING COMPLETELY FINISHED, COORDINATED AND PROPERLY FUNCTIONING SYSTEMS. ANY MISCELLANEOUS ITEMS OR MATERIALS NOT SPECIFICALLY NOTED, BUT REQUIRED FOR THE PROPER EXECUTION, INSTALLATION, OR PERFORMANCE (
3. 4. 5. 6. 7. 8. 9. $0.$ 11. 12. 13. 14. 15. 16. 17. 18. 19. $20.$	NOTES. THE CONTRACT DOCUMENTS IN THEIR ENTIRETY ARE THE RESPONSIBILITY OF ALL TRADES. WHERE REQUIREMENTS ARE SHOWN IN ONE SECTION OF THE SPECIFICATIONS OR DRAWINGS BUT NOT ANOTHER, THE CONTRACTOR IS NOT RELIEVED FROM PROVIDING COMPLETELY FINISHED, COORDINATED AND PROPERLY FUNCTIONING SYSTEMS. ANY MISCELLANEOUS ITEMS OR MATERIALS NOT SPECIFICALLY NOTED, BUT REQUIRED FOR THE PROPER EXECUTION, INSTALLATION, OR PERFORMANCE (
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6. $1.$ 8. $9.$ $10.$ $13.$ $14.$ $15.$ $16.$ $17.$ $18.$ $19.$ $20.$	THE WORK, SHALL BE PROVIDED BY THE CONTRACTOR.
7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.	CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT AND COORDINATION OF DIMENSIONS IN THE FIELD.
8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.	THE PRESENCE OF THE ARCHITECT OR AN ARCHITECT'S REPRESENTATIVE OF THE JOB SITE DOES NOT IMPLY CONCURRENCE OR APPROVAL OF THE WORK THE CONTRACTOR SHALL CALL SPECIFIC ITEMS TO THE ATTENTION OF THE ARCHITECT IF THE CONTRACTOR WISHES TO OBTAIN THE ARCHITECT'S REVIEW
9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.	IF DISCREPANCIES OCCUR BETWEEN DRAWINGS OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, NOTIFY THE ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING.
10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.	DO NOT SCALE THE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IF CRITICAL DIMENSIONS DO NOT APPEAR ON CONSTRUCTION DOCUMENTS, OR CONFLICT WITH DIMENSIONS ON OTHER DETAILS, NOTIFY THE ARCHITECT.
11. 12. 13. 14. 15. 16. 17. 18. 19. 20.	VERIFY EQUIPMENT ROUGH-IN DIMENSIONS WITH MANUFACTURER FOR EQUIPM! THAT IS EXISTING, REUSED OR FURNISHED BY OWNER.
12. 13. 14. 15. 16. 17. 18. 19. 20.	ALL PENETRATIONS THROUGH FLOORS, WALLS AND RATED ASSEMBLIES AS W AS ALONG SLAB PERIMETERS AND SEPARATION WALL PERIMETERS, SHALL E SEALED AND PROTECTED WITH U.L. APPROVED ASSEMBLIES AND / OR PROTECTIVE DEVICES HAVING THE SAME OR GREATER TESTED RATING AS THAT REQUIRED FOR THE ASSEMBLY BEING PENETRATED. ALL PENETRATION TO BE PROTECTED TO MAINTAIN FIRE RATED ASSEMBLY INTEGRITY.
13. 14. 15. 16. 17. 18. 19. 20.	PROVIDE ELECTROLYTIC PROTECTION / ISOLATION BETWEEN ALL DISSIMILAR METALS, WHERE THEY OCCUR TO PREVENT ELECTROLYTIC REACTION AND / (CORROSION.
14. 15. 16. 17. 18. 19. 2 <i>0</i> .	PROVIDE ADEQUATE BLOCKING, BACKING OR STRUCTURAL SUPPORT AS REQUIRED TO PROPERLY INSTALL ALL MOUNTED ASSEMBLIES, INCLUDING ALL ATTACHED EQUIPMENT (CONTRACTOR FURNISHED ITEMS), ROOF-MOUNTED MECHANICAL UNITS.
15. 16. 17. 18. 19.	PROVIDE ALL TEMPORARY BRACING AND SHORING AS REQUIRED FOR CONTRACT WORK.
16. 17. 18. 19. 2 <i>0</i> .	PROTECT ALL NEWLY INSTALLED MATERIALS AND FINISHES UNTIL WORK IS FORMALLY ACCEPTED BY THE ARCHITECT OR THE OWNER'S REPRESENTATIV AND TRANSFERRED TO THE OWNER.
17. 18. 19. 2 <i>0</i> .	THE CONSTRUCTION SITE IS TO BE KEPT CLEAN AND FREE OF DEBRIS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PHASING, SECURING, HANDLING, TRANSPORTING AND DISPOSING OF DEBRIS.
18. 19. 2 <i>0</i> .	COORDINATE STAGING AND STORAGE AREAS, AND LOCATIONS OF TEMPORA FACILITIES WITH OWNER.
19. 2 <i>0</i> .	COORDINATE LOCATIONS OF CONSTRUCTION DUMPSTER ON SITE AND ACCES TO BUILDING WITH OWNER.
20.	PROVIDE DUST PROTECTION OF THE AREA OUTSIDE OF CONSTRUCTION AND DEMOLITION LIMITS.
	PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION AS REQUIRED
	LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. UTILITIES DISTURBED BY THE CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR REPAIR ACCORDING TO THE OWNER'S SPECIFICATIONS AND REQUIREMENTS AT NO COST TO THE OWNER.
	SUBMIT A REQUEST TO INTERRUPT ANY SERVICES TO OWNER, IN WRITING, 96 HOURS IN ADVANCE OF PROPOSED INTERRUPTION. REQUEST SHALL STATE REASON, DATE, EXACT TIME OF, AND APPROXIMATE DURATION OF SUCH INTERRUPTION.
	VERIFY THE EXISTENCE AND LOCATION OF UTILITIES PRIOR TO STARTING WOR
	MAINTAIN UTILITY SERVICES AND PROTECT THEM AGAINST DAMAGE DURING CONSTRUCTION OPERATIONS.
	CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE UTILITIES - KNOWN AND UNKNOWN (OVERHEAD AND BURIED) WHICH MAY OCC DUE TO THEIR ACTION OR LACK OF ACTION ON THE PROJECT SITE DURING CONSTRUCTION OPERATIONS. CONTRACTOR SHALL SEEK ASSISTANCE OF LOCAL UTILITIES IN LOCATING THE UTILITIES PRIOR TO PERFORMING OPERATIC IN ANY AREA.
	INSTALL ALL NEW MATERIALS AND EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
	ALL NEW BUILDING MATERIALS AND PRODUCTS SHALL NOT CONTAIN LEAD, CADMIUM, OR ASBESTOS.
	KEYNOTES WHERE INDICATED ARE FOR REFERENCE ONLY AND MAY NOT BE ALL LOCATIONS THAT CORRESPOND TO THAT NOTE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF MATERIALS REQUIRED FOR DEMOLITION AND NEW CONSTRUCTION.
-	REPAIR ANY DAMAGE DUE TO CONSTRUCTION TRAFFIC OR OPERATIONS. A. RETURN ALL DISTURBED LANDSCAPE AREAS DUE TO CONSTRUCTION ACTIVITY TO ORIGINAL CONDITION. B. FINAL GRADE AND SOD AREAS DISTURBED BY CONSTRUCTION.
	CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY APPROVALS, PERMITS AND INSPECTION; PAYING REQUIRED FEES AND POST ANY REQUIRED BONDS, PRIOR TO BEGINNING ANY DEMOLITION OR CONSTRUCTION.
	PROVIDE A TEMPORARY 6 FEET HIGH CHAIN LINK FENCE AROUND THE FULL PERIMETER OF THE CONSTRUCTION SITE DURING WORK, UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED.
31.	FINAL COLOR SELECTIONS TO BE MADE BY OWNER / ARCHITECT UPON RECE OF ALL MATERIAL SUBMITTALS. REVIEW CANNOT BEGIN UNTIL ALL MATERIALS HAVE BEEN RECEIVED.
32.	FINISH GRADE TO SLOPE AWAY FROM BUILDING, TYPICAL. GRADE TO FACILIT DRAINAGE.
33.	

- 34. CLEAN INTERIOR AND EXTERIOR OF ALL WINDOW GLAZING.
- 35. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS. IN THE EVENT OF CONFLICT BETWEEN THE DRAWINGS OR BETWEEN A DRAWING AND SPECIFICATION ITEM, THE DRAWING OR SPECIFICATION REQUIRING THE GREATER EXTENT, LARGER NUMBER, OR HIGHER QUALITY SHALL GOVERN. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING FOR RESOLUTION BEFORE PROCEEDING.
- 36. SAND-BLASTING IS NOT PERMITTED.
- 31. CONTRACTOR SHALL MAINTAIN A CURRENT RECORD SET OF ALL CONTRACT DOCUMENTS AND RETURNED SUBMITTALS ON SITE FOR THE DURATION OF THE PROJECT. ANY CHANGES MADE TO THE CONTRACT DOCUMENTS SHALL BE PROMPTLY INCORPORATED INTO THE CURRENT RECORD SET.
- 38. WHEN IN DOUBT, SUBMIT A REQUEST FOR INFORMATION (RFI) TO THE ARCHITECT IN WRITING FOR ALL QUESTIONS, INCLUDING BUT NOT LIMITED TO CLARIFICATIONS, INTERPRETATIONS, OR WHERE FIELD CONDITIONS MAY IMPACT DESIGN INTENT, PRIOR TO PROCEEDING WITH THE WORK.

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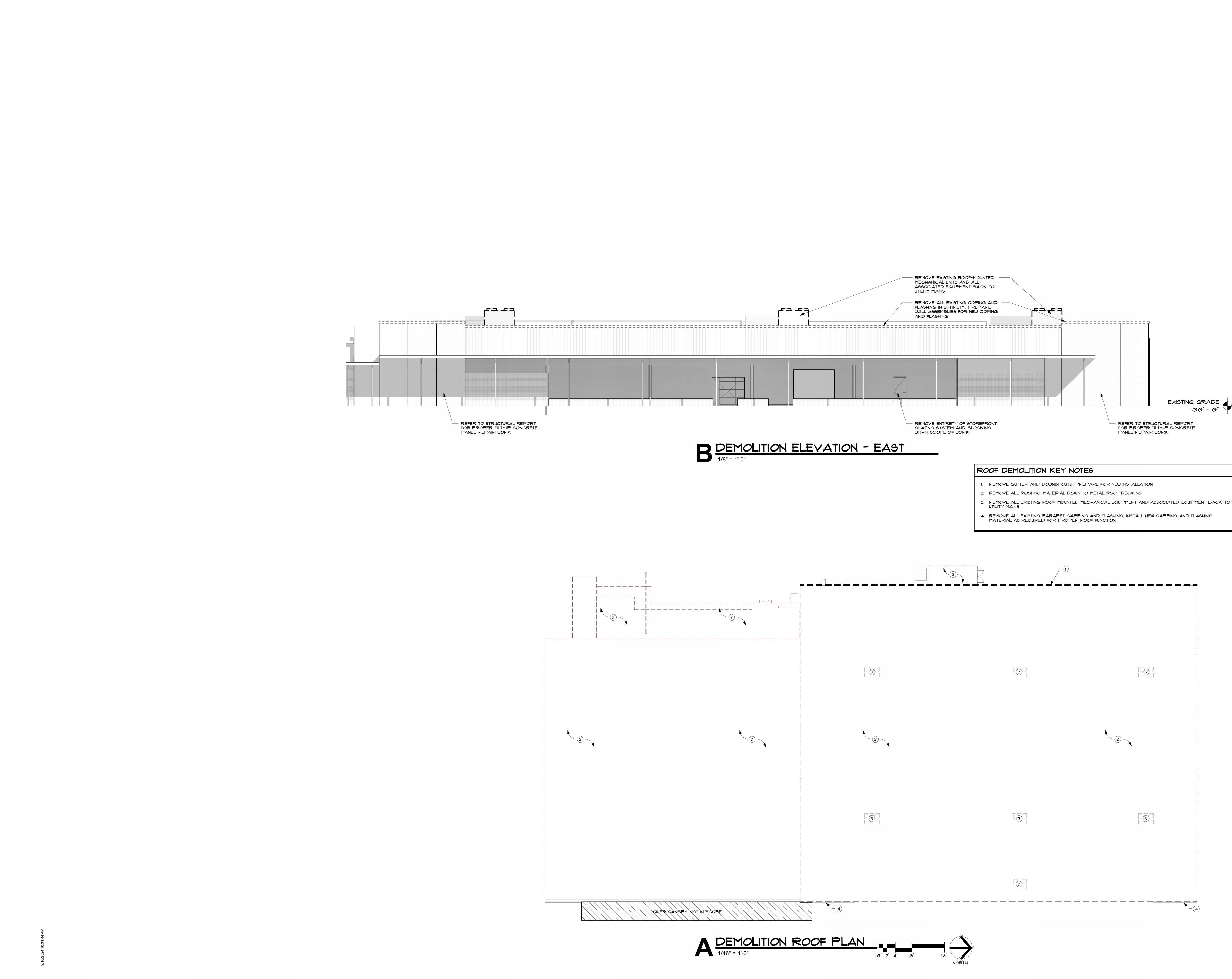
CONSTRUCTION DOCUMENTS

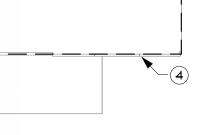
DATE

OTHER ISSUE DATES: NO. DESCRIPTION

SHEET NAME: PROJECT INFORMATION





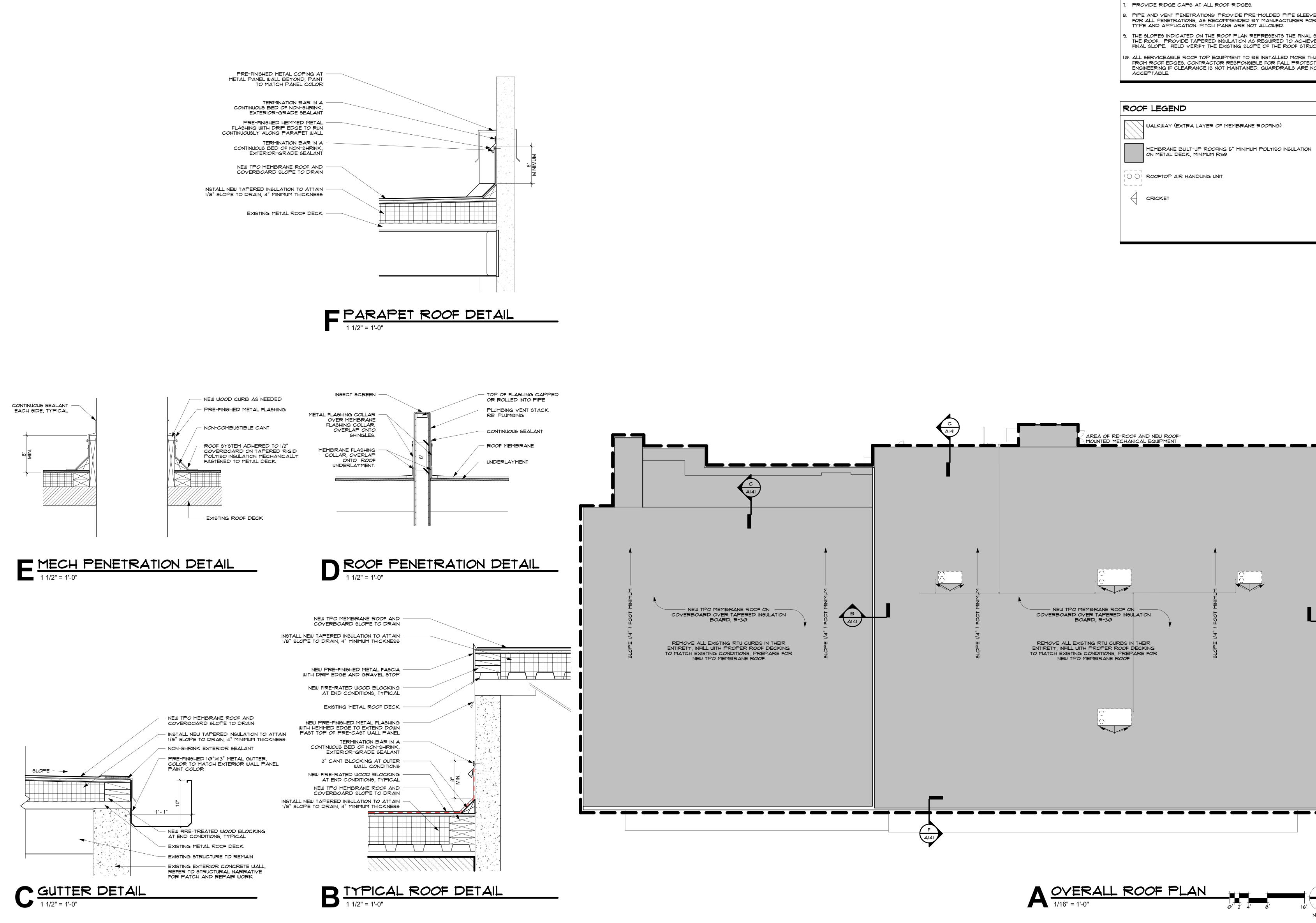






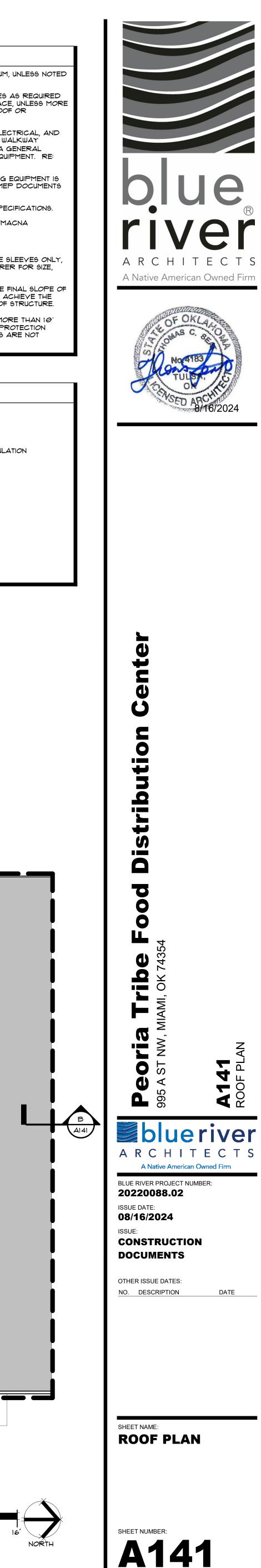
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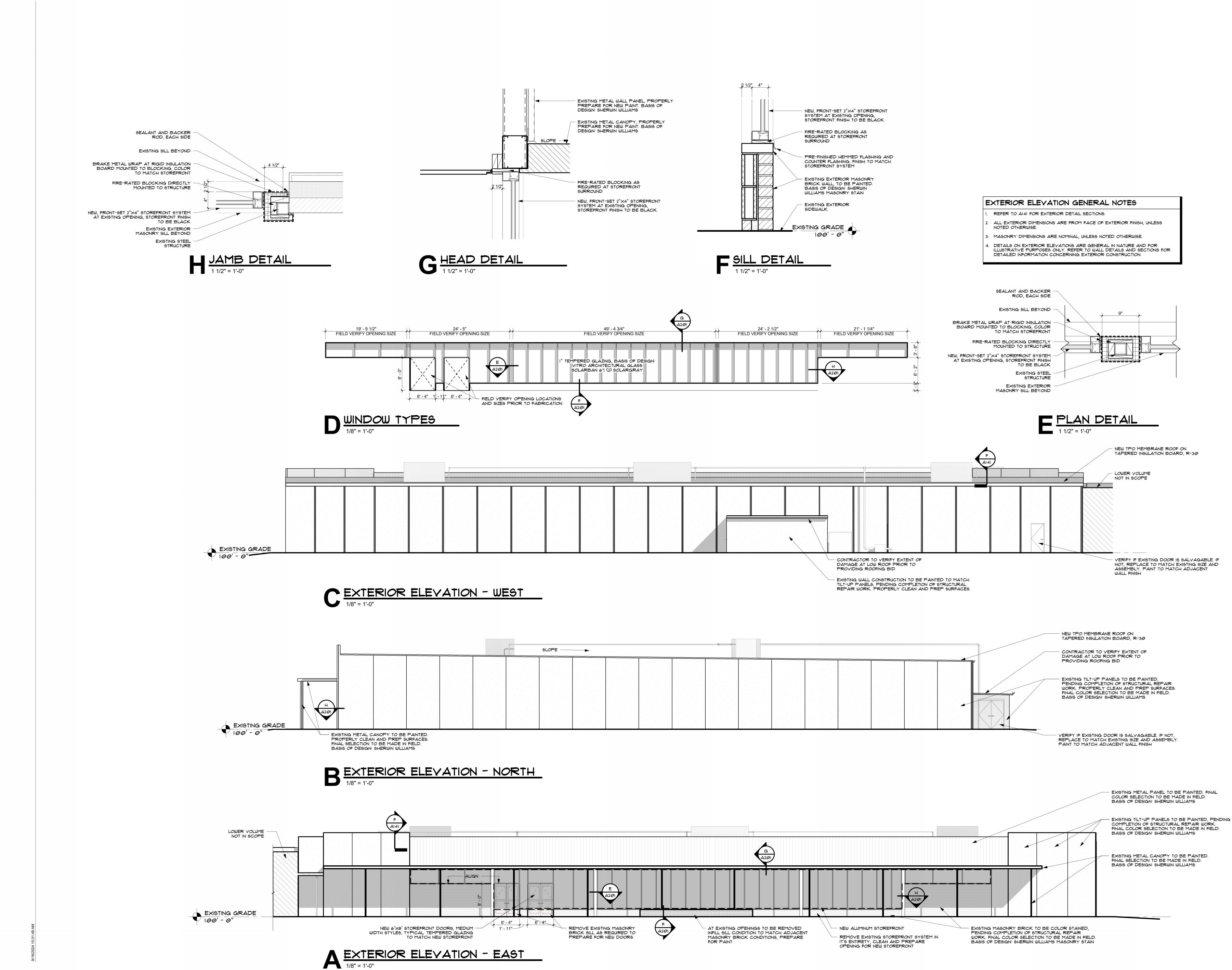




ROOF PLAN GENERAL NOTES

- ALL ROOFING SURFACES TO SLOPE 1/4 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE. PROVIDE CURB HEIGHTS FOR EQUIPMENT AND ROOF HATCHES AS REQUIRED TO MAINTAIN & INCHES MINIMUM ABOVE FINISHED ROOF SURFACE, UNLESS MORE STRINGENT CONDITIONS ARE INDICATED OR REQUIRED BY ROOF OR
- EQUIPMENT MANUFACTURER. PROVIDE WALKWAY PROTECTION TO MAJOR MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT AS REQUIRED FOR SERVICE ACCESS. WALKWAY PROTECTION MAY NOT BE INDICATED, BUT IF INDICATED IT'S A GENERAL LAYOUT AND MAY NOT SHOW ALL FINAL LOCATIONS OF ALL EQUIPMENT. RE: SPECIFICATIONS.
- . ALL ROOFTOP MECHANICAL, ELECTRICAL, AND / OR PLUMBING EQUIPMENT IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. REFERENCE MEP DOCUMENTS AND SPECIFICATIONS FOR FURTHER DESIGN INFORMATION.
- 5. INSTALL ROOFING IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- . INSTALL GUTTERS AND DOWNSPOUTS IN ACCORDANCE WITH SMACNA GUIDELINES.
- . PIPE AND VENT PENETRATIONS: PROVIDE PRE-MOLDED PIPE SLEEVES ONLY, FOR ALL PENETRATIONS, AS RECOMMENDED BY MANUFACTURER FOR SIZE, TYPE AND APPLICATION. PITCH PANS ARE NOT ALLOWED.
- THE SLOPES INDICATED ON THE ROOF PLAN REPRESENTS THE FINAL SLOPE OF THE SOOF. PROVIDE TAPERED INSULATION AS REQUIRED TO ACHIEVE THE FINAL SLOPE. FIELD VERIFY THE EXISTING SLOPE OF THE ROOF STRUCTURE.
- 10. ALL SERVICEABLE ROOF TOP EQUIPMENT TO BE INSTALLED MORE THAN 10' FROM ROOF EDGES. CONTRACTOR RESPONSIBLE FOR FALL PROTECTION ENGINEERING IF CLEARANCE IS NOT MAINTAINED. GUARDRAILS ARE NOT









	ABBREVIATIONS	GENERAL SYMBOLS	PLUMBING SYM
Ø ROUND DIAMETER ABV ABOVE	HTG HEATING IN INCH		DOMESTIC COLD WATER (CM
AC AIR CONDITIONING	INV INVERT	EXISTING COMPONENT PEN WEIGHT DEMOLITION PEN WEIGHT - COMPONENT SHADED	DOMESTIC HOT WATER (HW)
ADD ADDENDUM AFF ABOVE FINISHED FLOOR	LB / (#) POUND LB/HR POUNDS PER HOUR	ROOM	
NFMS AIRFLOW MEASURING STATION	LAT LEAVING AIR TEMPERATURE LWT LEAVING WATER TEMPERATURE	ROOM CALLOUT	BELOW GRADE WASTE (W)
LT ALTERNATE	MAT MIXED AIR TEMPERATURE	AREA NOT IN SCOPE HATCHING	VENT
RCH ARCHITECT/ARCHITECTURAL	MAX MAXIMUM MBH ONE THOUSAND BTU PER HOUR		RL RAINLEADER
FG BELOW FINISHED GRADE	MC MECHANICAL CONTRACTOR MECH MECHANICAL	 CONNECT NEW TO EXISTING - VERIFY EXACT LOCATION DISCONNECT FROM EXISTING - VERIFY EXACT LOCATION 	ORL OVERFLOW RAINLEADER
DD BOTTOM OF DUCT ELEVATION ABOVE FLOO	DR MFR MANUFACTURER	$2 \neq 2$ PIPE / DUCT CONTINUATION SYMBOL	LIQUID PROPANE
OP BOTTOM OF PIPE ELEVATION ABOVE FLOOF OS BOTTOM OF STEEL	R MIN MINIMUM MISC MISCELLANEOUS		
TU BRITISH THERMAL UNITS	MTR MOTOR NCR NOISE CRITERIA RATING	5 - DETAIL NUMBER M3.6 - SHEET NUMBER WHERE DRAWN	CD-CD-CD-CONDENSATE DRAIN
AP CAPACITY	NC NORMALLY CLOSED		D D DRAIN
M CUBIC FEET PER MINUTE CAST IRON	NO NORMALLY OPEN NTS NOT TO SCALE	B SECTION LETTER	OIL WASTE
.G CEILING	OBD OPPOSED BLADE DAMPER	M3.6	GREASE WASTE
DP COEFFICIENT OF PERFORMANCE CONSTANT AIR VOLUME	PC PLUMBING CONTRACTOR PD PRESSURE DROP	UNIQUE I.D. (FAN COIL UNIT NO. 1)	PW PRODUCTION WASTE
DECIBELS DRY BULB TEMPERATURE	PIV POST INDICATOR VALVE PLBG PLUMBING	FC-01-TYPICAL EQUIPMENT CALLOUT	SCW—SOFT COLD WATER
DIAMETER	PRESS PRESSURE	EQUIPMENT TYPE (FC=FAN COIL UNIT)	FCWFILTERED COLD WATER
MO DEMOLISH DOWN	PVC POLYVINYL CHLORIDE PIPE PSI POUNDS PER SQUARE INCH		RO-RO-REVERSE OSMOSIS WATER
DIFFERENTIAL PRESSURE	PSIG POUNDS PER SQUARE INCH GAUGE		ROR REVERSE OSMOSIS RETURN
EXISTING COMPONENT DESIGNATION EACH	PWR POWER (R) RELOCATED COMPONENT DESIGNATION	HVAC SYMBOLS	DEIONIZED WATER
ENTERING AIR TEMPERATURE ELECTRICAL CONTRACTOR	RH RELATIVE HUMIDITY RM ROOM	LOW VELOCITY SUPPLY AIR DUCT (SA)	HW 140° DOMESTIC HOT WATER HIGH
C ELECTRICAL	RPM REVOLUTIONS PER MINUTE	MEDIUM VELOCITY SUPPLY AIR DUCT (MVSA)	
EXISTING TO REMAIN P EQUIPMENT	SF SQUARE FOOT SP STATIC PRESSURE	RETURN AIR DUCT (RA)	FG-FG-FLUE GAS
ENTERING WATER TEMPERATURE	STM STEAM	EXHAUST AIR DUCT (EA)	CA-CA-COMBUSTION AIR
DEGREES FAHRENHEIT FIRE DEPARTMENT CONNECTION	TCC TEMPERATURE CONTROL CONTRACTOR TOD TOP OF DUCT ELEVATION ABOVE FLOOR	OUTDOOR AIR DUCT (OA)	CO / FCO ● CLEANOUT (FLOOR)
FIRE HOSE CABINET FLOOR	TOP TOP OF PIPE ELEVATION ABOVE FLOOR TEMP TEMPERATURE	RELIEF AIR DUCT (RLF)	2-WAY CO ●● 2-WAY CLEANOUT (FLOOR/GI
FLOW LINE	TYP TYPICAL	FLUE GAS DUCT (FG) COMBUSTION AIR DUCT (CA)	WCO I CO WALL CLEANOUT / END OF LI
G FUEL OIL GAUGE V FUEL OIL VENT	UG UNDERGROUND VAV VARIABLE AIR VOLUME		
FEET PER MINUTE FOOT/FEET	VVT VARIABLE VOLUME AND TEMPERATURE VCP VITRIFIED CLAY PIPE	FIRST SIZE IS TOP DIM.(TYP.)	
GALLON GENERAL CONTRACTOR	VEP VITRIFIED CLAY PIPE VENT VENTILATION VFD VARIABLE FREQUENCY DRIVE	24x12 (DOWN) DUCT SECTION, POSITIVE PRESSURE	PIPE SYMBO
GALLONS PER MINUTE	VTR VENT THROUGH ROOF	24x12 (UP) DUCT SECTION, NEGATIVE PRESSURE 24x12 (DOWN) DUCT SECTION, NEGATIVE PRESSURE	DIRECTION OF FLOW
HORSE POWER HOSE REEL	WB WET BULB TEMPERATURE		$C_1 + T_1 + O$ PIPE DROP / SIDE CONNECTION
		18x12 DUCT SIZE, FIRST IS SIDE SHOWN CLEAR INSIDE DIM.	BOTTOM / TOP CONNECTION, 4
COMPONENT	ABBREVIATIONS	Image: Note of the second s	ー・しー・ BOTTOM / TOP CONNECTION, 4 「一一一五」 CAP / CAPPED OUTLET
COMPONENT /	ABBREVIATIONS	Image: Strain	Image: style="text-align: center;">Image: style: style="text-align: center;">Image: style
AIR CONDITIONING UNIT	HWP-# HEATING WATER PUMP	Image: Structure Image: Structure <td< td=""><td>Image: state of the state</td></td<>	Image: state of the state
AIR CONDITIONING UNIT AREA DRAIN		Image: Strain	Image: state of the state
AIR CONDITIONING UNIT AREA DRAIN # AIR HANDLING UNIT AIR SEPARATOR	HWP-#HEATING WATER PUMPHWPP-#HEATING WATER PRIMARY PUMPHWSP-#HEATING WATER SECONDARY PUMPHRU-#HEAT RECOVERY UNIT	Image: Structure Image: Structure <td< td=""><td>Image: style="text-align: center;">Image: style="text-</td></td<>	Image: style="text-align: center;">Image: style="text-
AIR CONDITIONING UNIT AREA DRAIN <u>#</u> AIR HANDLING UNIT AIR SEPARATOR BOILER BOTTLE FILLER	HWP-#HEATING WATER PUMPHWPP-#HEATING WATER PRIMARY PUMPHWSP-#HEATING WATER SECONDARY PUMPHRU-#HEAT RECOVERY UNITIU-#INDOOR UNITL-#LOUVER	Image: Structure Image: Structure <td< td=""><td>Image: Image: Image</td></td<>	Image: Image
AIR CONDITIONING UNIT AREA DRAIN # AIR HANDLING UNIT AIR SEPARATOR BOILER BOTTLE FILLER BATH TUB	HWP-#HEATING WATER PUMPHWPP-#HEATING WATER PRIMARY PUMPHWSP-#HEATING WATER SECONDARY PUMPHRU-#HEAT RECOVERY UNITIU-#INDOOR UNITL-#LOUVERLV-#LAVATORY	18x12DUCT SIZE, FIRST IS SIDE SHOWN CLEAR INSIDE DIM. $18x12$ DUCT CHANGE OF ELEVATION RISE(R) DROP(D) $18x12$ FLEXIBLE CONNECTION RISE(R) DROP(D) $18x12$ FLEXIBLE CONNECTION $18x12$ SIDE WALL SUPPLY REGISTER $18x12$ BALANCE DAMPER - MANUAL LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY $18x12$ BALANCE DAMPER - MOTORIZED LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY $18x12$ $18x$	Image: Second state of the second s
AIR CONDITIONING UNIT AREA DRAIN # AIR HANDLING UNIT AIR SEPARATOR BOILER BOTTLE FILLER BATH TUB CHILLER C-# COMPUTER ROOM AIR CONDITIONING UNIT	HWP-#HEATING WATER PUMPHWPP-#HEATING WATER PRIMARY PUMPHWSP-#HEATING WATER SECONDARY PUMPHRU-#HEAT RECOVERY UNITIU-#INDOOR UNITL-#LOUVERLV-#LAVATORYMAU-#MAKE-UP AIR UNITMB-#MOP BASIN	18x12DUCT SIZE, FIRST IS SIDE SHOWN CLEAR INSIDE DIM. $18x12$ DUCT CHANGE OF ELEVATION RISE(R) DROP(D) $-R$ DUCT CHANGE OF ELEVATION RISE(R) DROP(D) $-R$ FLEXIBLE CONNECTION $-R$ SIDE WALL SUPPLY REGISTER $RCT: OPPOSED BLADE / ROUND: BUTTERFLY$ <td>Image: Second state of the second s</td>	Image: Second state of the second s
AIR CONDITIONING UNIT AREA DRAIN # AIR HANDLING UNIT AIR SEPARATOR BOILER BOTTLE FILLER BATH TUB CHILLER	HWP-#HEATING WATER PUMPHWPP-#HEATING WATER PRIMARY PUMPHWSP-#HEATING WATER SECONDARY PUMPHRU-#HEAT RECOVERY UNITIU-#INDOOR UNITL-#LOUVERLV-#LAVATORYMAU-#MAKE-UP AIR UNITMB-#MOP BASINMSS-#MINI SPLIT SYSTEM	18x12DUCT SIZE, FIRST IS SIDE SHOWN CLEAR INSIDE DIM. $18x12$ DUCT CHANGE OF ELEVATION RISE(R) DROP(D) $-R$ DUCT CHANGE OF ELEVATION RISE(R) DROP(D) $+R$ SIDE WALL SUPPLY REGISTER $+R$ BALANCE DAMPER - MANUAL LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY R BALANCE DAMPER - MOTORIZED LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY R <t< td=""><td>Image: Second state of the second s</td></t<>	Image: Second state of the second s
AIR CONDITIONING UNIT AREA DRAIN # AIR HANDLING UNIT AIR SEPARATOR BOILER BOTTLE FILLER BATH TUB CHILLER C-# COMPUTER ROOM AIR CONDITIONING UNIT CLEANOUT COOLING TOWER AIR COOLED CONDENSING UNIT	HWP-#HEATING WATER PUMPHWPP-#HEATING WATER PRIMARY PUMPHWSP-#HEATING WATER SECONDARY PUMPHRU-#HEAT RECOVERY UNITIU-#INDOOR UNITL-#LOUVERLV-#LAVATORYMAU-#MAKE-UP AIR UNITMB-#MOP BASINMSS-#MINI SPLIT SYSTEMORDOVERFLOW ROOF DRAINOU-#OUTDOOR UNIT	18x12DUCT SIZE, FIRST IS SIDE SHOWN CLEAR INSIDE DIM. $18x12$ DUCT CHANGE OF ELEVATION RISE(R) DROP(D) $-R$ DUCT CHANGE OF ELEVATION RISE(R) DROP(D) $-R$ SIDE WALL SUPPLY REGISTER $-R$ BALANCE DAMPER - MANUAL LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY R BALANCE DAMPER - MOTORIZED LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY R <t< td=""><td>Image: Second state of the second</td></t<>	Image: Second state of the second
AIR CONDITIONING UNIT AREA DRAIN AIR HANDLING UNIT AIR SEPARATOR BOILER BOTTLE FILLER BATH TUB CHILLER C-# COMPUTER ROOM AIR CONDITIONING UNIT CLEANOUT COOLING TOWER AIR COOLED CONDENSING UNIT AIR COOLED CONDENSING UNIT AIR COOLED WATER PUMP	HWP-#HEATING WATER PUMPHWPP-#HEATING WATER PRIMARY PUMPHWSP-#HEATING WATER SECONDARY PUMPHRU-#HEAT RECOVERY UNITIU-#INDOOR UNITL-#LOUVERLV-#LAVATORYMAU-#MAKE-UP AIR UNITMB-#MOP BASINMSS-#MINI SPLIT SYSTEMORDOVERFLOW ROOF DRAINOU-#OUTDOOR UNITPRVPRESSURE REDUCING VALVERCP-#RADIANT CEILING PANEL	18x12DUCT SIZE, FIRST IS SIDE SHOWN CLEAR INSIDE DIM. $18x12$ DUCT CHANGE OF ELEVATION RISE(R) DROP(D) $-R$ DUCT CHANGE OF ELEVATION RISE(R) DROP(D) $+R$ SIDE WALL SUPPLY REGISTER $+R$ BALANCE DAMPER - MANUAL LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY $RECT: OPPOSED BLADE / ROUND: BUTTERFLY$ $RECT: OPPOSED ROUND: R$	Image: Second state of the second
AIR CONDITIONING UNIT AREA DRAIN AIR HANDLING UNIT AIR SEPARATOR BOILER BOTTLE FILLER BATH TUB CHILLER COMPUTER ROOM AIR CONDITIONING UNIT CLEANOUT COOLING TOWER AIR COOLED CONDENSING UNIT AIR COOLED CONDENSING UNIT CABINET UNIT HEATER CHILLED WATER PUMP CHILLED WATER PRIMARY PUMP	HWP-#HEATING WATER PUMPHWPP-#HEATING WATER PRIMARY PUMPHWSP-#HEATING WATER SECONDARY PUMPHRU-#HEAT RECOVERY UNITIU-#INDOOR UNITL-#LOUVERLV-#LAVATORYMAU-#MAKE-UP AIR UNITMB-#MOP BASINMSS-#MINI SPLIT SYSTEMORDOVERFLOW ROOF DRAINOU-#OUTDOOR UNITPRVPRESSURE REDUCING VALVERCP-#RADIANT CEILING PANELRDROOF DRAIN	18x12DUCT SIZE, FIRST IS SIDE SHOWN CLEAR INSIDE DIM. $18x12$ DUCT CHANGE OF ELEVATION RISE(R) DROP(D) $-R$ DUCT CHANGE OF ELEVATION RISE(R) DROP(D) $+R$ SIDE WALL SUPPLY REGISTER $+R$ BALANCE DAMPER - MANUAL LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY $RECT: OPPOSED BLADE / ROUND: BUTTERFLY$ $RECT: OPPOSED ROUND: ROUND: BUTTERFLY$ $RECT: OPPOSED ROUND: ROUND:$	Image: Second state of the second
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 # AIR CONDITIONING UNIT # AREA DRAIN J.# AIR HANDLING UNIT # AIR SEPARATOR BOILER # BOTTLE FILLER # BATH TUB # CHILLER AC-# COMPUTER ROOM AIR CONDITIONING UNIT CLEANOUT # COOLING TOWER # AIR COOLED CONDENSING UNIT 1.# CABINET UNIT HEATER P.# CHILLED WATER PUMP PP-# CHILLED WATER PRIMARY PUMP SP-# CHILLED WATER BOOSTER PUMP BP-# DOMESTIC WATER BOOSTER PUMP # DRINKING FOUNTAIN / WATER COOLER 	HWP-#HEATING WATER PUMPHWPP-#HEATING WATER PRIMARY PUMPHWSP-#HEATING WATER SECONDARY PUMPHRU-#HEAT RECOVERY UNITIU-#INDOOR UNITL-#LOUVERLV-#LAVATORYMAU-#MAKE-UP AIR UNITMB-#MOP BASINMSS-#MINI SPLIT SYSTEMORDOVERFLOW ROOF DRAINOU-#OUTDOOR UNITPRVPRESSURE REDUCING VALVERCP-#RADIANT CEILING PANELRDROOF DRAINRF-#RETURN/RELIEF FANRH-#ROOF HOODRHD-#ROOF HYDRANT	18x12 DUCT SIZE, FIRST IS SIDE SHOWN CLEAR INSIDE DIM. Image: Provide the stress of the st	Image: Second state of the second
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-# AIR CONDITIONING UNIT -# AREA DRAIN U-# AIR HANDLING UNIT -# AIR SEPARATOR -# BOILER -# BOTTLE FILLER -# BATH TUB I-# COMPUTER ROOM AIR CONDITIONING UNIT -# COMPUTER ROOM AIR CONDITIONING UNIT -# COOLING TOWER I-# CABINET UNIT HEATER VP-# CHILLED WATER PUMP VSP-# CHILLED WATER SECONDARY PUMP VSP-# DOMESTIC WATER BOOSTER PUMP -# DOMESTIC HOT WATER CIRCULATING PUMF -# EMERGENCY EYE WASH -# EXHAUST FAN -# ELECTRIC DUCT HEATER<	HWP-#HEATING WATER PUMPHWP-#HEATING WATER PRIMARY PUMPHWSP-#HEATING WATER SECONDARY PUMPHRU-#HEAT RECOVERY UNITIU-#INDOOR UNITL-#LOUVERLV-#LAVATORYMAU-#MAKE-UP AIR UNITMB-#MOP BASINMSS-#MINI SPLIT SYSTEMORDOVERFLOW ROOF DRAINOU-#OUTDOOR UNITPRVPRESSURE REDUCING VALVERCP-#RADIANT CEILING PANELRDROOF DRAINRF-#RETURN/RELIEF FANRH-#ROOF HYDRANTPRTU-#ROOFTOP UNITSF-#SH-#SHOWERSK-#SINK	18x12 DUCT SIZE, FIRST IS SIDE SHOWN CLEAR INSIDE DIM. 18x12 DUCT CHANGE OF ELEVATION RISE(R) DROP(D) Image: Problem of the stress of the s	Image: Second state of the second
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 # AIR CONDITIONING UNIT # AREA DRAIN J.# AIR HANDLING UNIT # AIR SEPARATOR BOILER # BOTTLE FILLER # BOTTLE FILLER # BATH TUB # CHILLER AC-# COMPUTER ROOM AIR CONDITIONING UNIT CLEANOUT # COOLING TOWER # AIR COOLED CONDENSING UNIT -1.# CABINET UNIT HEATER P.# CHILLED WATER PUMP PP-# CHILLED WATER PRIMARY PUMP SP-# CHILLED WATER SECONDARY PUMP BP-# DOMESTIC WATER BOOSTER PUMP # DRINKING FOUNTAIN / WATER COOLER MP-# DOMESTIC HOT WATER CIRCULATING PUMF # EMERGENCY EYE WASH # EXHAUST FAN 1.# ELECTRIC DUCT HEATER # EMERGENCY SHOWER # EXPANSION TANK FURNACE O FLOOR CLEANOUT J.# FAN COIL UNIT # FLOOR BINK J.# FAN POWERED TERMINAL UNIT 	HWP-# HWPP-#HEATING WATER PUMPHWPP-# HWSP-#HEATING WATER SECONDARY PUMPHRU.# HEAT RECOVERY UNITU.# IU.# IDOOR UNITL.# LAVATORYMAU.# MAKE-UP AIR UNITMB.# MOP BASINMSS.# MINI SPLIT SYSTEM ORD OVERFLOW ROOF DRAIN OU.# OUTDOOR UNITPRV PRESSURE REDUCING VALVE RCP-# RADIANT CEILING PANEL RD RD ROOF DRAINRF.# RETURN/RELIEF FAN RH.# ROOF HODD RHD.# ROOF HYDRANTRTU.# SH.# SHOWER SK.# SINK SP-# SIMP PUMP ST.# STEAM TRAP TD TRENCH DRAINTMV.# THERMOSTATIC MIXING VALVE TU.# UNIT HEATER UR.# UNIT HEATER UN	18x12 DUCT SIZE, FIRST IS SIDE SHOWN CLEAR INSIDE DIM. → R DUCT CHANGE OF ELEVATION RISE(R) DROP(D) ↓ FLEXIBLE CONNECTION + SIDE WALL SUPPLY REGISTER BALANCE DAMPER - MANUAL LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY ↓ BALANCE DAMPER - MOTORIZED LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY FD+ -+ FD == FIRE DAMPER (FD) IN WALL / FLOOR SD+ -+ SD == SMOKE DAMPER (SD) IN WALL / FLOOR SD+ -+ SD == SMOKE DAMPER (SD) IN WALL / FLOOR FD+ -+ FSD == SMOKE DAMPER (SD) IN WALL / FLOOR SD+ -+ SD == SMOKE DAMPER (SD) IN WALL / FLOOR FD+ -+ FSD == SMOKE DAMPER (SD) IN WALL / FLOOR FD+ -+ FSD == COMBO FIRE/SMOKE DAMPER (FSD) IN WALL / FLOOR TO / T THERMOSTAT (TSTAT) / TEMPERATURE SENSOR (D) / H UMIDISTAT (HSTAT) / HUMIDITY SENSOR P PRESSURE SENSOR M M MOTOR - - - SB10 CONNECTION & ROW GRD CALLOUT SYMBOLS MARK IN SCHEDULE CONNECTION & RUNOUT SIZE (10"Ø) CFM SB10 ALT -> SB10-250 ALT -> SB10-250 <td< td=""><td>Image: Solution of the second sec</td></td<>	Image: Solution of the second sec
 # AIR CONDITIONING UNIT # AREA DRAIN U.# AIR HANDLING UNIT # AIR SEPARATOR BOILER # BOTTLE FILLER # BATH TUB .# CHILLER AC.# COMPUTER ROOM AIR CONDITIONING UNIT CLEANOUT # COOLING TOWER .# AIR COOLED CONDENSING UNIT H.# CABINET UNIT HEATER (P.# CHILLED WATER PUMP (PP-# CHILLED WATER PRIMARY PUMP (SP-# CHILLED WATER SECONDARY PUMP (BP-# DOMESTIC WATER BOOSTER PUMP # DRINKING FOUNTAIN / WATER COOLER WP-# DOMESTIC HOT WATER CIRCULATING PUMF # ENERGENCY EYE WASH # EXHAUST FAN H.# ELECTRIC DUCT HEATER # EMERGENCY SHOWER # EXPANSION TANK FURNACE O FLOOR CLEANOUT U.# FAN COIL UNIT # FLOOR DRAIN # FLOOR SINK J.# FAN POWERED TERMINAL UNIT # FIRE PUMP 	HWP-#HEATING WATER PUMPHWPP-#HEATING WATER PRIMARY PUMPHWSP-#HEATING WATER SECONDARY PUMPHRU.#HEAT RECOVERY UNITU.#INDOOR UNITL.#LOUVERLV#LAVATORYMAU.#MAKE-UP AIR UNITMB.#MOP BASINMSS.#MINI SPLIT SYSTEMORDOVERFLOW ROOF DRAINOU.#OUTDOOR UNITPRVPRESSURE REDUCING VALVERCP-#RADIANT CEILING PANELRDROOF DRAINRF.#RETURN/RELIEF FANRH.#ROOF HYDRANTSF.#SUPPLY AIR FANSH.#SHOWERSK.#SINKSP-#SUMP PUMPST.#STEAM TRAPTDTRENCH DRAINTMV-#THERMOSTATIC MIXING VALVETU.#UNIT HEATERUR#URINALUVULTRAVIOLET STERILE CONDITIONERWB.#WALL BOX (PLUMBING UTILITY)	18x12 DUCT SIZE, FIRST IS SIDE SHOWN CLEAR INSIDE DIM. +R DUCT CHANGE OF ELEVATION RISE(R) DROP(D) Image: Side Wall Supply REGISTER BALANCE DAMPER - MANUAL LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY Image: Side Wall Supply REGISTER Image: Side Wall Supply Regis	Image: Solution of the second seco
 # AIR CONDITIONING UNIT # AREA DRAIN J.# AIR HANDLING UNIT # AIR SEPARATOR BOILER # BOTTLE FILLER # BOTTLE FILLER # BATH TUB # CHILLER AC-# COMPUTER ROOM AIR CONDITIONING UNIT CLEANOUT # COOLING TOWER # AIR COOLED CONDENSING UNIT -1.# CABINET UNIT HEATER P.# CHILLED WATER PUMP PP-# CHILLED WATER PRIMARY PUMP SP-# CHILLED WATER SECONDARY PUMP BP-# DOMESTIC WATER BOOSTER PUMP # DRINKING FOUNTAIN / WATER COOLER MP-# DOMESTIC HOT WATER CIRCULATING PUMF # EMERGENCY EYE WASH # EXHAUST FAN -1.# ELECTRIC DUCT HEATER # EMERGENCY SHOWER # EXPANSION TANK FURNACE O FLOOR CLEANOUT J.# FAN COIL UNIT # FLOOR BRAIN # FLOOR SINK J.# FAN POWERED TERMINAL UNIT # FIRE PUMP SHADIATOR # FIN TUBE RADIATOR # GREASE INTERCEPTOR 	HWP-#HEATING WATER PUMPHWPP-#HEATING WATER PRIMARY PUMPHWSP-#HEATING WATER SECONDARY PUMPHRU-#HEAT RECOVERY UNITIU-#INDOOR UNITL-#LOUVERLV-#LAVATORYMAU-#MAKE-UP AIR UNITMB-#MOP BASINMSS-#MINI SPLIT SYSTEMORDOVERFLOW ROOF DRAINOU-#OUTDOOR UNITPRVPRESSURE REDUCING VALVERCP-#RADIANT CEILING PANELRDROOF DRAINRF.#RETURN/RELIEF FANRH-#ROOF HOODRHD-#ROOF TOP UNITSF-#SUPPLY AIR FANSH-#SHOWERSK-#SINKSP-#SUMP PUMPST-#STEAM TRAPTDTRENCH DRAINTMV-#THERMOSTATIC MIXING VALVETU-#TERMINAL UNITUH-#UNIT HEATERUR:#URINALUVULTRAVIOLET STERILE CONDITIONERWB-#WALL BOX (PLUMBING UTILITY)WC-#WATER CLOSETWH-#WATER HEATER	18x12 DUCT SIZE, FIRST IS SIDE SHOWN CLEAR INSIDE DIM. →R DUCT CHANGE OF ELEVATION RISE(R) DROP(D) →R SIDE WALL SUPPLY REGISTER →BALANCE DAMPER - MANUAL LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY →BALANCE DAMPER - MOTORIZED LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY FD → + FD ⊡ FIRE DAMPER (FD) IN WALL / FLOOR SD → + SD ⊡ SMOKE DAMPER (SD) IN WALL / FLOOR FSD → + FSD ⊡ COMBO FIRE/SMOKE DAMPER (FSD) IN WALL / FLOOR T / T THERMOSTAT (TSTAT) / TEMPERATURE SENSOR (H) / H HUMIDISTAT (HSTAT) / HUMIDITY SENSOR P PRESSURE SENSOR M MOTOR → SUPPLY FLOW ARROW / RETURN FLOW ARROW T1.1 → EQUIPMENT CALLOUT (200) → EQUIPMENT CALLOUT (200) → EQUIPMENT AIRFLOW (CFM) GRD CALLOUT SYMBOLS ROUND MARK IN SCHEDULE CONNECTION & RETANGULAR RETURN GRILLE RETURN GRILLE RB12x12 250 MARK IN SCHEDULE CONNECTION & RUNOUT SIZE (10"ø) ALT → RB12x12-250 MARK IN SCHEDULE CONNECTION & CFM	Image: Solution of the second sec
# AIR CONDITIONING UNIT # AREA DRAIN U.# AIR HANDLING UNIT # AIR SEPARATOR BOILER # # BOTTLE FILLER # BATH TUB .# CHILLER AC-# COMPUTER ROOM AIR CONDITIONING UNIT CLEANOUT # # COOLING TOWER .# AIR COOLED CONDENSING UNIT H-# CABINET UNIT HEATER (P.# CHILLED WATER PUMP (P.# CHILLED WATER SECONDARY PUMP (SP.# CHILLED WATER SECONDARY PUMP (BP-# DOMESTIC WATER BOOSTER PUMP (BP-# DOMESTIC HOT WATER CIRCULATING PUMF # EMERGENCY EYE WASH # EXHAUST FAN H.# ELECTRIC DUCT HEATER # EMERGENCY SHOWER # EXPANSION TANK • FURNACE 0 FLOOR CLEANOUT U.# FAN COIL UNIT # FLOOR SINK J.# FAN POWERED TERMINAL UNIT # FIRE PUMP	HWP-#HEATING WATER PUMPHWPP-#HEATING WATER PRIMARY PUMPHWSP-#HEATING WATER SECONDARY PUMPHRU.#HEAT RECOVERY UNITU.#INDOOR UNITL.#LOUVERLV.#LAVATORYMAU.#MAKE-UP AIR UNITMB.#MOP BASINMSS.#MINI SPLIT SYSTEMORDOVERFLOW ROOF DRAINOU.#OUTDOOR UNITPRVPRESSURE REDUCING VALVERCP-#RADIANT CEILING PANELRDROOF DRAINRF.#RETURN/RELIEF FANRH.#ROOF HYDRANTRTU.#ROOF HYDRANTSF.#SUPPLY AIR FANSH.#SHOWERSK.#SINKSP-#SUMP PUMPST.#STEAM TRAPTDTRENCH DRAINTMV-#THERMOSTATIC MIXING VALVETU.#TERMINAL UNITUH.#UNIT HEATERUR.#URINALUVULTRAVIOLET STERILE CONDITIONERWB.#WALL BOX (PLUMBING UTILITY)WC.#WATER CLOSET	18x12 DUCT SIZE, FIRST IS SIDE SHOWN CLEAR INSIDE DIM. →R DUCT CHANGE OF ELEVATION RISE(R) DROP(D) → SIDE WALL SUPPLY REGISTER → BALANCE DAMPER - MANUAL LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY → BALANCE DAMPER - MOTORIZED LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY → BALANCE DAMPER - MOTORIZED LOCKING QUADRANT RECT: OPPOSED BLADE / ROUND: BUTTERFLY FD → - + FD = - + FD = - + FD = - + SD = - SD = SMOKE DAMPER (SD) IN WALL / FLOOR SD = - SD = SMOKE DAMPER (SD) IN WALL / FLOOR FSD + FSD = COMBO FIRE/SMOKE DAMPER (FSD) IN WALL / FLOOR ① // IT THERMOSTAT (TSTAT) / TEMPERATURE SENSOR ④ // H HUMIDISTAT (HSTAT) / HUMIDITY SENSOR P PRESSURE SENSOR M MOTOR - SUPPLY FLOW ARROW / RETURN FLOW ARROW I1.1 - EQUIPMENT CALLOUT (200) - EQUIPMENT AIRFLOW (CFM) GRD CALLOUT SYMBOLS MARK IN SCHEDULE CONNECTION & RUNOUT SIZE (10"ø) CFM SUPPLY DIFFUSER - SB10 250 ALT - SB10-250 </td <td>→→→ BOTTOM / TOP CONNECTION, 4 ←→ CAP / CAPPED OUTLET → BALL VALVE / GLOBE VALVE → CONCENTRIC / ECCENTRIC RE → ANCHOR / FLEXIBLE CONNECT → BUTTERFLY VALVE → CIRCUIT SETTER → CIRCUIT SETTER → CHECK VALVE → BLIND FLANGE / FLOW METER ● → ● NACKFLOW PREVENTER (BFP) ● → ● NATER METER / IRRIGATION W → PRESSURE REDUCING VALVE / ● WATER METER / IRRIGATION W → PLUG VALVE / NEEDLE VALVE ● WATER HAMMER ARRESTOR (M ● WATER HAMMER ARRESTOR (M ● SLEEVE / EXPANSION JOINT ● NANUAL / EMERGENCY 3-WAY ● MANUAL / EMERGENCY 3-WAY</td>	→→→ BOTTOM / TOP CONNECTION, 4 ←→ CAP / CAPPED OUTLET → BALL VALVE / GLOBE VALVE → CONCENTRIC / ECCENTRIC RE → ANCHOR / FLEXIBLE CONNECT → BUTTERFLY VALVE → CIRCUIT SETTER → CIRCUIT SETTER → CHECK VALVE → BLIND FLANGE / FLOW METER ● → ● NACKFLOW PREVENTER (BFP) ● → ● NATER METER / IRRIGATION W → PRESSURE REDUCING VALVE / ● WATER METER / IRRIGATION W → PLUG VALVE / NEEDLE VALVE ● WATER HAMMER ARRESTOR (M ● WATER HAMMER ARRESTOR (M ● SLEEVE / EXPANSION JOINT ● NANUAL / EMERGENCY 3-WAY ● MANUAL / EMERGENCY 3-WAY

	IECHANICAL A	ABBREVIATIONS	GENERAL SYMBOLS	PLUN
Ø ABV	ROUND DIAMETER ABOVE	HTG HEATING IN INCH		
AC	AIR CONDITIONING	INV INVERT	EXISTING COMPONENT PEN WEIGHT	
ADD AFF	ADDENDUM ABOVE FINISHED FLOOR	LB / (#) POUND LB/HR POUNDS PER HOUR	ROOM	W
AFMS AFUE	AIRFLOW MEASURING STATION ANNUAL FUEL UTILIZATION EFFICIENCY	LAT LEAVING AIR TEMPERATURE LWT LEAVING WATER TEMPERATURE	Image: Total control in the second control in the	
ALT	ALTERNATE	MAT MIXED AIR TEMPERATURE	AREA NOT IN SCOPE HATCHING	
ARCH BFF	ARCHITECT/ARCHITECTURAL BELOW FINISHED FLOOR	MAX MAXIMUM MBH ONE THOUSAND BTU PER HOUR		RL
BFG BLW	BELOW FINISHED GRADE BELOW	MC MECHANICAL CONTRACTOR MECH MECHANICAL	CONNECT NEW TO EXISTING - VERIFY EXACT LOCATION DISCONNECT FROM EXISTING - VERIFY EXACT LOCATION	ORL G
BOD	BOTTOM OF DUCT ELEVATION ABOVE FLOOR	MFR MANUFACTURER	$\frac{1}{2} + \frac{2}{2} = \frac{1}{2} = \frac{1}$	LP
BOP BOS	BOTTOM OF PIPE ELEVATION ABOVE FLOOR BOTTOM OF STEEL	MIN MINIMUM MISC MISCELLANEOUS		CA
BTU	BRITISH THERMAL UNITS	MTR MOTOR	5 - DETAIL NUMBER M3.6 - SHEET NUMBER WHERE DRAWN	CD
BTUH CAP	BRITISH THERMAL UNITS PER HOUR CAPACITY	NCR NOISE CRITERIA RATING NC NORMALLY CLOSED	M3.0 ⁻ Sheet NOMBER WHERE DRAWN	D
CFM CI	CUBIC FEET PER MINUTE CAST IRON	NO NORMALLY OPEN NTS NOT TO SCALE	B SECTION LETTER	OW
CLG	CEILING	OBD OPPOSED BLADE DAMPER	M3.6SHEET NUMBER WHERE DRAWN	GW IW
COP CV	COEFFICIENT OF PERFORMANCE CONSTANT AIR VOLUME	PC PLUMBING CONTRACTOR PD PRESSURE DROP		PW
DB	DECIBELS	PIV POST INDICATOR VALVE	UNIQUE I.D. (FAN COIL UNIT NO. 1)	SCW
DB DIA	DRY BULB TEMPERATURE DIAMETER	PLBG PLUMBING PRESS PRESSURE	EQUIPMENT TYPE (FC=FAN COIL UNIT)	FCW
DEMO DN	DEMOLISH DOWN	PVC POLYVINYL CHLORIDE PIPE PSI POUNDS PER SQUARE INCH		RO
DP	DIFFERENTIAL PRESSURE	PSIG POUNDS PER SQUARE INCH GAUGE		
(E) EA	EXISTING COMPONENT DESIGNATION EACH	PWR POWER (R) RELOCATED COMPONENT DESIGNATION	HVAC SYMBOLS	
EAT	ENTERING AIR TEMPERATURE	ŘÍ RELATIVE HUMIDITY	LOW VELOCITY SUPPLY AIR DUCT (SA)	DIR
EC ELEC	ELECTRICAL CONTRACTOR ELECTRICAL	RM ROOM RPM REVOLUTIONS PER MINUTE	MEDIUM VELOCITY SUPPLY AIR DUCT (MVSA)	HW 140
etr Equip	EXISTING TO REMAIN EQUIPMENT	SF SQUARE FOOT SP STATIC PRESSURE	RETURN AIR DUCT (RA)	FG
EWT	ENTERING WATER TEMPERATURE	STM STEAM	EXHAUST AIR DUCT (EA)	CA
°F FDC	DEGREES FAHRENHEIT FIRE DEPARTMENT CONNECTION	TCC TEMPERATURE CONTROL CONTRACTOR TOD TOP OF DUCT ELEVATION ABOVE FLOOR	OUTDOOR AIR DUCT (OA)	CO/FCO •
FHC	FIRE HOSE CABINET	TOP OF PIPE ELEVATION ABOVE FLOOR	RELIEF AIR DUCT (RLF)	2-WAY CO ●●
FLR FL	FLOOR FLOW LINE	TEMP TEMPERATURE TYP TYPICAL	FLUE GAS DUCT (FG)	
FOG	FUEL OIL GAUGE	UG UNDERGROUND	COMBUSTION AIR DUCT (CA)	
FOV FPM	FUEL OIL VENT FEET PER MINUTE	VAV VARIABLE AIR VOLUME VVT VARIABLE VOLUME AND TEMPERATURE	UP)DUCT SECTION, POSITIVE PRESSURE- FIRST SIZE IS TOP DIM.(TYP.)	
FT GAL	FOOT/FEET GALLON	VCP VITRIFIED CLAY PIPE VENT VENTILATION	Image: Section Point Strength Pressure	PI
GC	GENERAL CONTRACTOR	VFD VARIABLE FREQUENCY DRIVE	$\square \square 24x12 (UP) DUCT SECTION, NEGATIVE PRESSURE$	
GPM HP	GALLONS PER MINUTE HORSE POWER	VTR VENT THROUGH ROOF WB WET BULB TEMPERATURE	24x12 (DOWN) DUCT SECTION, NEGATIVE PRESSURE	→
HR	HOSE REEL			сі і^ті і о
				<u> </u>
			$\frac{18 \times 12}{R} \xrightarrow{10} \text{DUCT SIZE, FIRST IS SIDE SHOWN CLEAR INSIDE DIM.}$	1Ó1 _
	OMPONENT A	BBREVIATIONS	FLEXIBLE CONNECTION	
<u>AC-#</u> <u>AD-#</u>	AIR CONDITIONING UNIT AREA DRAIN	<u>HWP-#</u> HEATING WATER PUMP HWPP-# HEATING WATER PRIMARY PUMP	BALANCE DAMPER - MANUAL LOCKING QUADRANT	<u> </u>
<u>AHU-#</u> <u>AS-#</u>	AIR HANDLING UNIT AIR SEPARATOR	HWSP-# HEATING WATER SECONDARY PUMP	RECT: OPPOSED BLADE / ROUND: BUTTERFLY	
<u>A3-#</u> <u>B-#</u>	BOILER	HRU-# HEAT RECOVERY UNIT IU-# INDOOR UNIT		
<u>BF-#</u> <u>BT-#</u>	BOTTLE FILLER BATH TUB	L-# LOUVER <u>LV-#</u> LAVATORY	$FD + - + FD \implies FIRE DAMPER (FD) IN WALL / FLOOR$	
<u>CH-#</u>	CHILLER	MAU-# MAKE-UP AIR UNIT	SD + - + SD > SMOKE DAMPER (SD) IN WALL / FLOOR	
	COMPUTER ROOM AIR CONDITIONING UNIT	MB-# MOP BASIN MSS-# MINI SPLIT SYSTEM	$FSD + - + FSD \ge COMBO FIRE/SMOKE DAMPER (FSD) IN WALL / FLOOR$	
<u>CO</u> <u>CT-#</u>	COOLING TOWER AIR COOLED CONDENSING UNIT	ORD OVERFLOW ROOF DRAIN	T THERMOSTAT (TSTAT) / TEMPERATURE SENSOR	\$↓₹
<u>CU-#</u> <u>CUH-#</u>	CABINET UNIT HEATER	OU-# OUTDOOR UNIT PRV PRESSURE REDUCING VALVE	H / H HUMIDISTAT (HSTAT) / HUMIDITY SENSOR	
<u>CWP-#</u> CWPP-#	CHILLED WATER PUMP CHILLED WATER PRIMARY PUMP	<u>RCP-#</u> RADIANT CEILING PANEL <u>RD</u> ROOF DRAIN	P PRESSURE SENSOR	
CWSP-#	CHILLED WATER SECONDARY PUMP	<u>RF-#</u> RETURN/RELIEF FAN		
<u>DWBP-#</u> <u>DF-#</u>	DOMESTIC WATER BOOSTER PUMP DRINKING FOUNTAIN / WATER COOLER	<u>RH-#</u> ROOF HOOD <u>RHD-#</u> ROOF HYDRANT		
<u>DHWP-</u> #	DOMESTIC HOT WATER CIRCULATING PUMP	RTU-# ROOFTOP UNIT	$= \frac{\underline{T1.1}}{(200)} = \underline{EQUIPMENT CALLOUT}$	_
<u>EE-#</u> <u>EF-#</u>	EMERGENCY EYE WASH EXHAUST FAN	<u>SF-#</u> SUPPLY AIR FAN <u>SH-#</u> SHOWER	GRD CALLOUT SYMBOLS	 D R
<u>EDH-#</u> <u>ES-#</u>	ELECTRIC DUCT HEATER EMERGENCY SHOWER	<u>SK-#</u> SINK <u>SP-#</u> SUMP PUMP	MARK IN SCHEDULE CONNECTION &	
<u>ES-#</u> <u>ET-#</u> <u>F-#</u> FCO	EXPANSION TANK	<u>SP-#</u> SUMP FUMP <u>ST-#</u> STEAM TRAP	ROUND SUPPLY DIFFUSER SB10 RUNOUT SIZE (10"ø)	
<u>F-#</u>	FURNACE FLOOR CLEANOUT	TD TRENCH DRAIN TMV-# THERMOSTATIC MIXING VALVE	CFM	
FCO	FAN COIL UNIT	TU-# TERMINAL UNIT	MARK IN SCHEDULE CONNECTION &	
<u>FCU-#</u>	FLOOR DRAIN FLOOR SINK	<u>UH-#</u> UNIT HEATER UR-#URINAL		-Δ, , , ,
<u>FCU-#</u>				
<u>FCU-#</u> <u>FD-#</u> <u>FS-#</u> <u>FTU-#</u>	FAN POWERED TERMINAL UNIT	UV ULTRAVIOLET STERILE CONDITIONER	CFM ALT → RB12x12-250	
<u>FCU-#</u> <u>FD-#</u> <u>FS-#</u> <u>FTU-#</u> <u>FP-#</u>		WB-# WALL BOX (PLUMBING UTILITY)		
<u>FCU-#</u> <u>FD-#</u> <u>FS-#</u> <u>FTU-#</u> <u>FTR-#</u> <u>GI-#</u>	FAN POWERED TERMINAL UNIT FIRE PUMP FIN TUBE RADIATOR GREASE INTERCEPTOR	WB-# WALL BOX (PLUMBING UTILITY) WC-# WATER CLOSET WH-# WATER HEATER	MARK IN SCHEDULE CONNECTION &	
<u>FCU-#</u> <u>FD-#</u> <u>FS-#</u> <u>FTU-#</u> <u>FP-#</u> <u>FTR-#</u>	FAN POWERED TERMINAL UNIT FIRE PUMP FIN TUBE RADIATOR	WB-# WALL BOX (PLUMBING UTILITY) WC-# WATER CLOSET		

PRESSURE CLASS SCHEDULE									
AIR SYSTEM	PRESSURE CLASS	SEAL	LEAKAG	SE CLASS					
AIR STSTEW	PRESSURE CLASS	CLASS	ROUND	RECT					
ENERAL EXHAUST	2 INCH WG (500 PA)	A	3	6					
DW-PRESSURE SUPPLY	2 INCH WG (500 PA)	A	6	12					
ETURN AND RELIEF	2 INCH WG (500 PA)	A	6	12					

HVAC DESIGN CONDITIONS

REMARKS BASED ON 2021 ASHRAE FUNDAMENTALS OF DESIGN 0.4% COOLING, 0.4% DEHUMIDIFICATION, AND 99.6% HEAT GROVE, OK. MINIMUM %RH IS NOT MAINTAINED IN THE COOL, DRY WINTER MONTHS.

	OUTDO	OR AIR	INDOOR	INDOOR	RELATIVE	
SPACE OR AREA	SUMMER DB/WB °F	WINTER DB °F	HEATING °F	COOLING °F	Humidity %Rh	
GROCERY STORE AREAS	99.3 / 75.4	12.2	70	75	60% MAX	
OFFICES	99.3 / 75.4	12.2	70	75	60% MAX	
WAREHOUSE	99.3 / 75.4	12.2	60	78	60% MAX	

MB	ING S	SYMBOLS	G
	MESTIC COLD		1. \
	MESTIC HOT W	ATER (HW) ATER RECIRC. (HWR)	
	STE (W)		2. F
	OW GRADE W	ASTE (W)	
– VEN – RAII	NLEADER		3. C
		EADER	
	URAL GAS		4. (
	JID PROPANE)	- F
	NDENSATE DR		5. E
– DRA			-
	WASTE EASE WASTE		C
	USTRIAL WAST	ſE	- 5
	DUCTION WAS		6. E
	T COLD WATE		
– REV	ERSE OSMOS	IS WATER	- E - F
		IS RETURN WATER	_ \
	ONIZED WATEI ONIZED WATEI		7. <i>F</i>
		ATER HIGH TEMP	
	MESTIC HOT W	ATER HIGH TEMP RECIRC	8. F
	E GAS //BUSTION AIR		- E
CLE	ANOUT (FLOO	R)	9. A
		(FLOOR/GRADE) / END OF LINE CLEANOUT	
vvAl			
IPF	SYN	IBOLS	12. F
		ONNECTION / PIPE RISE	NOTE
- TEE C	OUTLET DOWN	/ TEE OUTLET UP	ALL G
	OM / TOP CON CAPPED OUTL	NECTION, 45° OR 90°	DRAW
	VALVE / GLOB		
- CONC	ENTRIC / ECC	ENTRIC REDUCER OR INCREASER	2
-	IOR / FLEXIBLE ERFLY VALVE	CONNECTION	_
	JIT SETTER		_
- CHEC	K VALVE		_
• • • • •	INER / UNION FLANGE / FLC		_
			_
		NG VALVE / PLUG VALVE	_
	R METER / IRF	RIGATION WATER METER	_
- GAS (-		_
		ATING VALVE / PETE'S PLUG	_
	R HAMMER AF VE / EXPANSIC	RRESTOR (WHA)	-
			-
	PITCH DOWN /		_
	NOID VALVE / MATIC 3-WAY	CONTROL VALVE	
			-
- ELEC	ι κιυ 3-WAY / 2	2-WAY CONTROL VALVE	_
_ Manu	JAL / EMERGEN	NCY 3-WAY CONTROL VALVE	
_ THER	MOMETER / PF	RESSURE GAUGE	
- STEA	M TRAP		-
TEMP	ERATURE/PRE	SSURE RELIEF VALVE	
			7
ID	TION	5	
/IDIFICA	TION, AND 99	6% HEATING DESIGN DAYS FOR	
,	,		
DOOR OLING	RELATIVE HUMIDITY	REMARKS	
	%RH	·	
°F		*••	-1
	60% MAX	ALL	-

ENERAL DEMO. NOTES RIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. BRING ANY CREPANCIES FROM THE DRAWINGS AND NOTES TO THE ARCHITECT EDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK DIMENSIONS. ALL NOT JUSTIFY AN ADDITIONAL COST. IOVAL OF EXISTING FIXTURES AND EQUIPMENT WILL REQUIRE ISOLATING PIPING RISERS OR MAINS VIA SHUT-OFF VALVES. INSTALL NEW LATION VALVES WHERE REQUIRED FOR COMPLETION OF WORK. NTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO DTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND RIS DURING THE CONSTRUCTION WORK, AND SHALL CLEAN THE AREAS ALL CONSTRUCTION DIRT DAILY. AND UPON COMPLETION OF THE WORK. FOR LOCATIONS. ORDINATE WITH GENERAL CONTRACTOR THE REMOVAL AND PLACEMENT OF ALL EXISTING CEILINGS, WALLS, ETC. AS REQUIRED FOR CHANICAL DEMOLITION WORK. STING PIPING AND EQUIPMENT, ETC., NOT TO BE UTILIZED IN THE AND PHASING. MPLETED BUILDING SHALL BE DISCONTINUED OR REMOVED AS REQUIRED. ENDS OF DISCONTINUED PIPING SHALL BE CAPPED IN THE NEAREST LL, CEILING OR FLOOR SO THAT THEY ARE COMPLETELY CONCEALED. ENINGS LEFT IN WALLS, CEILINGS, ETC., WHERE EQUIPMENT AND PIPE, C., ARE REMOVED AND NOT REPLACED, SHALL BE PATCHED NEATLY WITH ILAR MATERIAL TO ADJACENT CONSTRUCTION. REFER TO DRAWINGS INEATING NEW WORK FOR ADDITIONAL INFORMATION REGARDING TO INSTALLATION. STEMS OR PORTIONS OF SYSTEMS WHERE USE IS TO BE DISCONTINUED. STING PIPING, FIXTURES AND EQUIPMENT THAT ARE NOT TO BE REUSED ALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE OWNER IF EY WISH TO RETAIN OWNERSHIP OF SAME. IF NOT, EQUIPMENT SHALL COME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED DM THE SITE AS SOON AS PRACTICAL AND DISPOSED OF IN ACCORDANCE H APPLICABLE LAWS AND REGULATIONS. CUTTING AND CHANNELING OF EXISTING BUILDING SHALL BE COMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE H MATERIAL SIMILAR TO ADJACENT CONSTRUCTION. RTIONS OF EXISTING SYSTEMS MAY BE SHOWN FOR CLARITY EVEN DUGH IT MAY NOT BE NECESSARY TO MODIFY OR REVISE THEM. ALL STING SYSTEMS ARE SHOWN BASED ON ORIGINAL OR REMODEL BUILDING AWINGS. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. WORK MUST BE COORDINATED AND SCHEDULED WITH THE OWNER AND CUPANTS OF THIS BUILDING SO AS TO PROVIDE THE LEAST AMOUNT OF RUPTION OF BUILDING ACTIVITIES AS POSSIBLE. MAINTAIN CONDITIONED ACE FOR ALL OWNER OCCUPIED AREAS DURING CONSTRUCTION. ACCESSIBLE ABANDONED PIPING AND DUCTWORK SHALL BE REMOVED REQUIRED.) PROPERLY DISPOSED OF. PALL EXISTING PIPING AND DUCTWORK SHOWN TO BE DISCONNECTED) NOT REUSED AT MAIN. ALL ACCESSIBLE PIPING SHALL BE REMOVED. OCATE EXISTING DUCTWORK, PIPING, ELECTRICAL CONDUITS, AND BLING AS NECESSARY TO ACCOMPLISH FINAL INSTALLATION AS SHOWN. IS SPECIFIED. RT ENGINEER TO ANY MAJOR RELOCATIONS REQUIRED. ENAMEL.

IERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER GS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON EET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

GENERAL NOTES

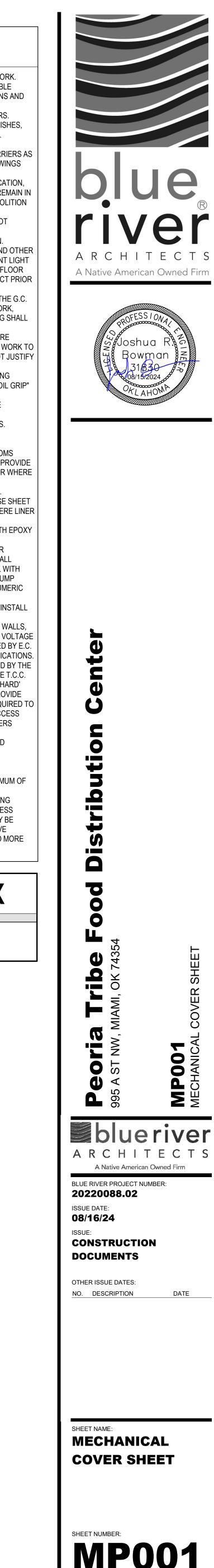
- VERIFY JOB SITE CONDITIONS AND DIMENSIONS BEFORE BEGINNING WORK. PLANS ARE SCHEMATIC IN NATURE. LAYOUT IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND
- NO PIPING, DUCTWORK, ETC. SHALL PENETRATE STRUCTURAL MEMBERS. PROVIDE MISCELLANEOUS CUTTING, PATCHING AND REPAIRING OF FINISHES,
- ROOF, WALLS, ETC., AS REQUIRED TO ACCOMMODATE THE NEW WORK. G.C. IS TO PATCH ANY OPENINGS IN CORRIDORS REQUIRED TO BE
- CONSTRUCTED TO LIMIT THE TRANSFER OF SMOKE AND IN SMOKE BARRIERS AS REQUIRED TO MEET CODE REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXACT LOCATION, CONFIGURATION AND ROUTING OF EXISTING SYSTEMS REQUIRED TO REMAIN IN OPERATION DURING THE PROJECT TO PREVENT DAMAGE DURING DEMOLITION REMOVE ALL EXISTING EQUIPMENT, DUCTWORK AND PIPING THAT IS NOT
- REQUIRED FOR A WORKING INSTALLATION.
- COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. UNLESS OTHERWISE INDICATED, INSTALL ALL SPACE THERMOSTATS AND OTHER OCCUPANT ADJUSTABLE CONTROL DEVICES SAME HEIGHT AS ADJACENT LIGHT SWITCHES, BUT IN NO CASE HIGHER THAN 48 INCHES ABOVE FINISHED FLOOR PER ADA REQUIREMENTS. COORDINATE EXACT HEIGHT WITH ARCHITECT PRIOR
- . ALL CUTTING AND PATCHING SHALL BE CLOSELY COORDINATED WITH THE G.C. 10. COORDINATE ROUTING OF PLUMBING, AND HVAC PIPING WITH DUCTWORK, LIGHTS, ARCHITECTURAL CEILING AND STRUCTURAL ELEMENTS. PIPING SHALL RISE AND DROP. JOG OR OFFSET AS REQUIRED TO AVOID CONFLICTS. DUCTWORK SHALL TAKE PRECEDENCE OVER ALL PIPING, EXCEPT WHERE GRADE MUST BE MAINTAINED FOR DRAINAGE. REWORK OF INSTALLED WORK TO RESOLVE CONFLICTS RISING FROM LACK OF COORDINATION SHALL NOT JUSTIFY AN INCREASE IN THE CONTRACT AMOUNT. I. SEAL TRANSVERSE AND LONGITUDINAL JOINTS OF ALL DUCTWORK USING
- HARDCAST DT TAPE AND FTA-20 ADHESIVE OR HARDCAST AFG-1402 "FOIL GRIP" PER MANUFACTURERS INSTRUCTIONS. 12. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE FIRE
- STOPPED BY THE TRADE MAKING THE PENETRATION. REFER TO
- ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS. 3. DO NOT ROUTE PIPING OR DUCTWORK OVER ELECTRICAL PANELS OR EQUIPMENT. PIPING OR DUCTWORK SHALL NOT BE ROUTED THROUGH ELECTRICAL ROOMS, TELECOM ROOMS OR ELEVATOR EQUIPMENT ROOMS UNLESS SPECIFICALLY SERVING THAT ROOM. COORDINATE WITH E.C. PROVIDE WATERTIGHT DRIP PAN WITH DRAIN TO NEAREST APPROVED RECEPTOR WHERE
- 14. ALL WORK IS TO CONFORM WITH APPLICABLE CODES AND STANDARDS. 15. DUCT SIZES SHOWN ARE ACTUAL INSIDE CLEAR DIMENSIONS. INCREASE SHEET METAL DIMENSIONS AS REQUIRED TO ACCOMMODATE DUCT LINER WHERE LINER
- 16. ALL EQUIPMENT SUPPORT STANDS SHALL BE PRIMED AND PAINTED WITH EPOXY
- UNDERGROUND-TYPE UTILITY MARKER: PROVIDED AND INSTALLED PER SPECIFICATION SECTIONS 220553 AND 230553 AT EVERY 100 FEET FOR ALL UNDERGROUND UTILITIES (INCLUDING HEAT PUMP WELL FIELD). LABEL WITH THE APPROPRIATE UTILITY. EACH VERTICAL GROUND SOURCE HEAT PUMP WELL/BORE SHALL BE LABELED "GCHP WELL #X WITH APPROPRIATE NUMERIC WELL NUMBER IDENTIFICATION. 8. TEMPERATURE CONTROLS CONTRACTOR (T.C.C.) SHALL FURNISH AND INSTALL
- ALL LOW VOLTAGE WIRING AND ASSOCIATED CONDUIT REQUIRED FOR MECHANICAL CONTROL SYSTEM. WIRING SHALL BE IN CONDUIT INSIDE WALLS, IN ROOMS WITH EXPOSED CEILINGS, AND ABOVE HARD CEILINGS. LINE VOLTAGE WIRING AND ASSOCIATED CONDUIT SHALL BE PROVIDED AND INSTALLED BY E.C.
- CONTROL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATIONS. 19. ALL CONTROL DAMPERS SHALL BE FURNISHED BY T.C.C. AND INSTALLED BY THE
- M.C. MOTOR OPERATORS SHALL BE FURNISHED AND INSTALLED BY THE T.C.C. 20. COORDINATE ACCESS TO EQUIPMENT AND VALVES INSTALLED ABOVE 'HARD' CEILINGS AND IN MASONRY CHASES WITH GENERAL CONTRACTOR. PROVIDE LOCKING ACCESS DOORS FOR INSTALLATION BY CONTRACTOR AS REQUIRED TO SERVICE CONCEALED DAMPERS, VALVES AND EQUIPMENT. CEILING ACCESS DOORS FOR FIRE DAMPERS, SMOKE DAMPERS AND FIRE SMOKE DAMPERS FURNISHED AND INSTALLED BY CONTRACTOR.
- I. CONTRACTOR TO INSTALL TEMPORARY FILTERS OVER ALL RETURN AND EXHAUST GRILLES IN WORK AREA DURING CONSTRUCTION.
- 2. THESE DRAWINGS ARE ACCOMPANIED BY SPECIFICATIONS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION. 3. EQUIPMENT THAT REQUIRES MAINTENANCE SHALL BE LOCATED A MINIMUM OF 10'-0" FROM THE BUILDING ROOF EDGE WHERE REQUIRED BY CODE.
- I. TERMINAL UNITS, MANUAL BALANCE DAMPERS, HYDRONIC AND PLUMBING VALVES, CIRCUIT SETTERS AND OTHER ACCESSORIES REQUIRING ACCESS SHALL BE ACCESSIBLE VIA A STANDARD LADDER SO COMPONENTS MAY BE REPLACED, REPAIRED, OR UTILIZED WITHOUT THE NEED FOR EXTENSIVE CEILING REMOVAL, SCAFFOLDING OR A MAN LIFT. WHERE POSSIBLE NO MORE THAN 48" ABOVE THE FINISHED CEILING.

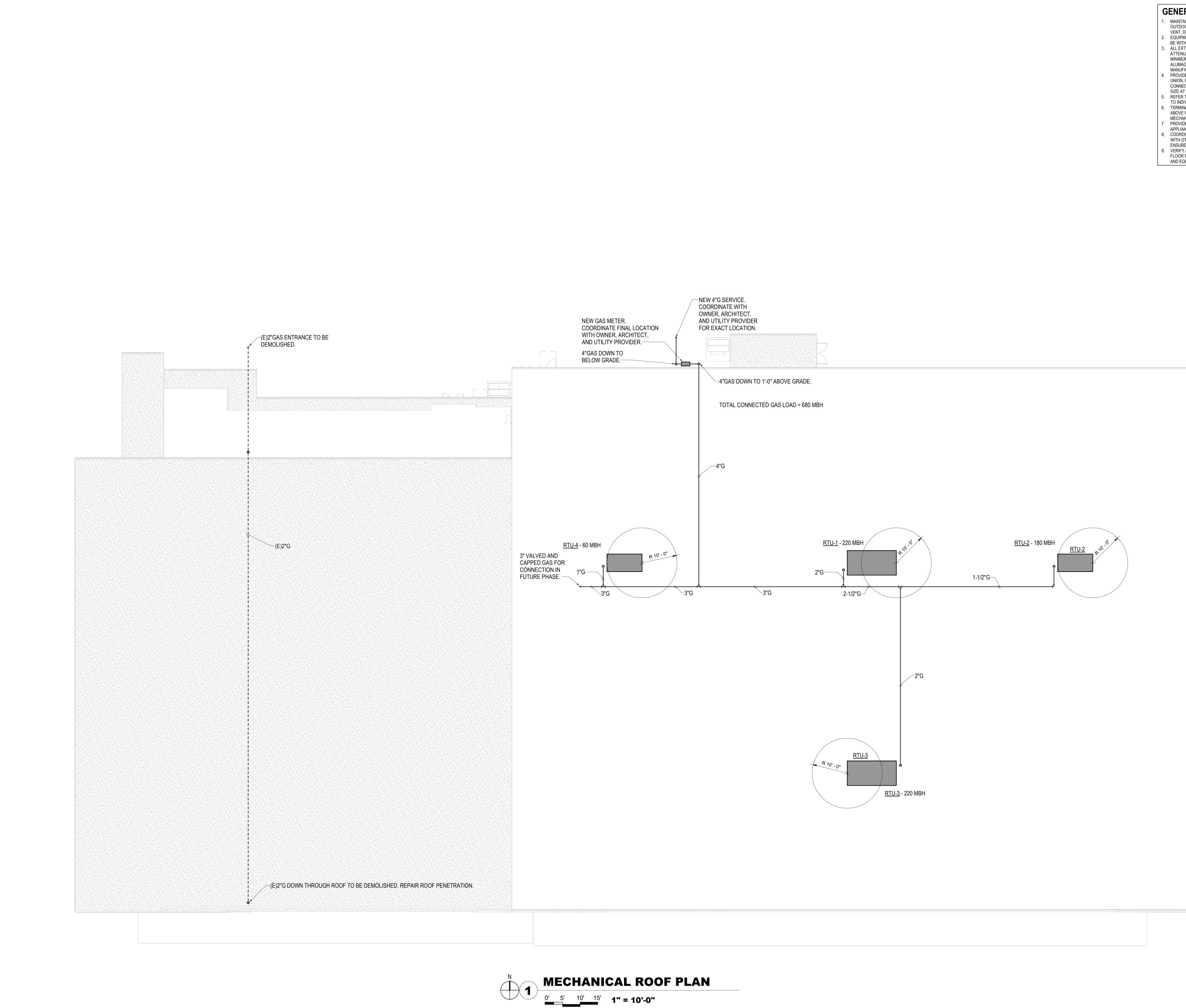
MECH SHEET INDEX

MP001 MECHANICAL COVER SHEET M101

MECHANICAL ROOF PLAN

M501 MECHANICAL DETAILS AND SCHEDULES





G	ENERAL ROOF PLAN NOTES
1.	MAINTAIN 10'-0" MINIMUM IN ANY DIRECTION FROM OUTDOOR AIR INTAKES ANY EXHAUST FAN, PLUMBING
2.	VENT, DRIVE, ALLEY OR LOADING DOCK. EQUIPMENT THAT REQUIRES MAINTENANCE SHALL NOT BE WITHIN 10' OF THE BUILDING EDGE.
3.	ALL EXTERIOR DUCTWORK INCLUDING SOUND ATTENUATORS SHALL BE INSULATED SHEETMETAL WITH MINIMUM OF 4" EXTERIOR INSULATION (R-11.2 MIN) WITH ALUMAGUARD 60 MEMBRANE INSTALLED PER
4.	MANUFACTURER'S REQUIREMENTS. PROVIDE AND INSTALL NEW LINE SIZE GAS COCK, UNION, REGULATOR, AND DIRT LEG AT ALL GAS CONNECTIONS TO ROOFTOP EQUIPMENT. REDUCE LINE SIZE AT CONNECTION.
5.	REFER TO THE EQUIPMENT SCHEDULE FOR PIPE SIZES TO INDIVIDUAL EQUIPMENT.
6.	TERMINATE PLUMBING VENTS NOT LESS THAN 12" ABOVE ROOF AND A MINIMUM OF 10'-0" FROM MECHANICAL OUTDOOR AIR INTAKES.
7.	PROVIDE ACCESSIBLE SHUT-OFF VALVES TO ALL APPLIANCES AND EQUIPMENT.
8.	COORDINATE ROUTING OF CONDENSATE DRAIN LINES WITH OTHER TRADES PRIOR TO INSTALLATION TO ENSURE SLOPE CAN BE MET.
9.	VERIFY AND REFER TO ARCHITECTURAL DIMENSIONAL FLOOR PLAN FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.







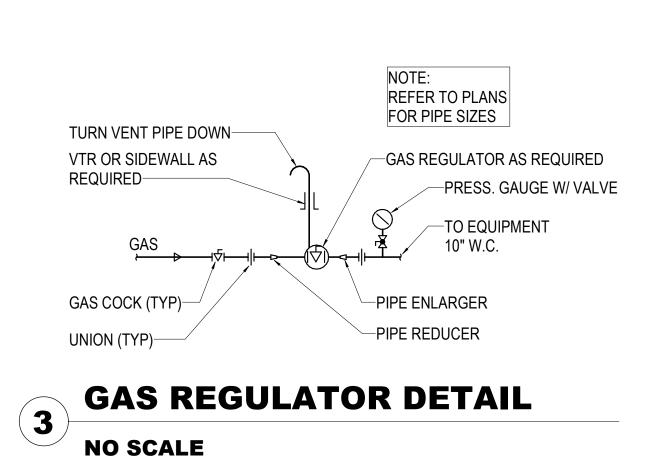


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REMARKS:

- . SCHEDULED VALUES ARE BASIS OF DESIGN. REFER TO ACCOMPANYING SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS 2. COOLING CAPACITIES ARE NET VALUES THAT INCLUDE INFILTRATION AND FAN HEAT AT SPECIFIED FLOW RATE AND STATIC.
- 1. MAXIMUM COIL FACE VELOCITY IS THE LEAST OF MANUFACTURER'S MAXIMUM RECOMMENDED MOISTURE CARRYOVER RATES OR 550 FPM. 5. UNIT WEIGHT INCLUDES CURB AND SPECIFIED ACCESSORIES.
- PROVIDE MANUFACTURER'S PACKAGED CONTROLS.
- 8. UNIT SHALL BE PROVIDED WITH HOT GAS REHEAT AND CONVENIENCE RECEPTACLE. 9. APD OVER HEAT EXCHANGER SHALL BE CALCULATED BASED ON TOTAL SUPPLY FAN AIRFLOW.

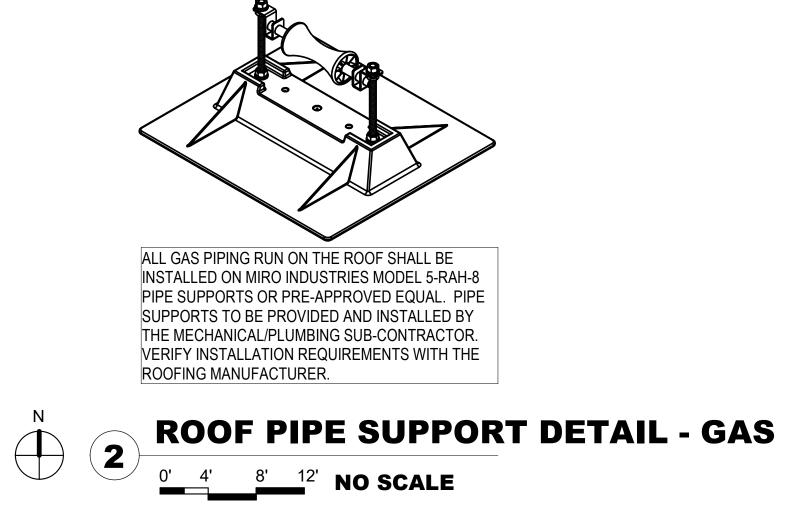
					SUPP	LY FAN		PC	WER EXHA	UST FAN			DX COOL	ING					CON	DENSER							GAS	HEAT			FILTE	र	ELECTR				
MARK	SERVES	MFR	MODEL	MIN OA	FLOW	ESP	MOTOR	FLOW	ESP	MOTOR	EAT		LAT	COC CAP	OLING Acity				COMPR	ESSOR			COND FAN	SEER2	AIRFLOW	INPUT	OUTPUT	EAT DB	LAT DB	GAS PRESSURE				MCA	MOD		REMARKS
				(CFM)	(CFM) (I	N WC)	HP BHP	(CFM)	(IN WC)	FLA QTY	DB (°F)	NB DE °F) (°F	B WB F) (°F)	TOTAL (MBH)	SENS (MBH)	(°F)	TYPE	RLA	NO F	RLA NO	CAP ST	EPS	FLA QTY	((CFM)	(MBH)	(MBH)	(°F)	(°F)	(IN WC)			TAJE		MOP		
RTU-1	WAREHOUSE	JOHNSON CONTROLS	KD25N	950	5500	2.0	10.0 6.97	5500	1.0	5.0 2	77.7	63.7 58.	1 53.9	267.6	201.8	105	SCROLL	41.0	1 4	1.0 2	VAR	2	2.00 4	(13.8)	5500	220	178.2	61.8	81.2	6"-11"	8	208	3	139.9	175	2485	ALL
RTU-2	RETAIL STORE	JOHNSON CONTROLS	KJ150N	900	4200	2.0	5.0 3.43	4200	1.0	5.5 1	80.5	5.4 58.	3 54.0	149.0	106.6	105	SCROLL	22.4	1 2	2.4 2	VAR	2	1.65 4	(15.2)	4200	180	146.0	55.5	89.3	6"-11"	8	208	3	77.4	90	1475	ALL
RTU-3	FOOD DIST CENTER	JOHNSON CONTROLS	KD25N	1545	7500	2.0	10.0 5.84	7500	1.0	5.0 2	80.0	5.1 58.	1 54.0	268.8	195.6	105	SCROLL	41.0	1 4	1.0 2	VAR	2	2.00 4	(13.8)	8850	220	178.2	56.5	78.5	6"-11"	8	208	3	139.9	175	2485	ALL
RTU-4	OFFICES	JOHNSON CONTROLS	KJ037N	100	1200	2.0	1.50 1.13	1200	0.5	5.5 1	77.0	53.3 59.	0 54.4	35.1	26.9	105	SCROLL	12.8	1		VAR		1.65 1	14.7	1200	60	49.0	63.4	101.2	6"-11"	8	208	3	22.7	30	925	ALL

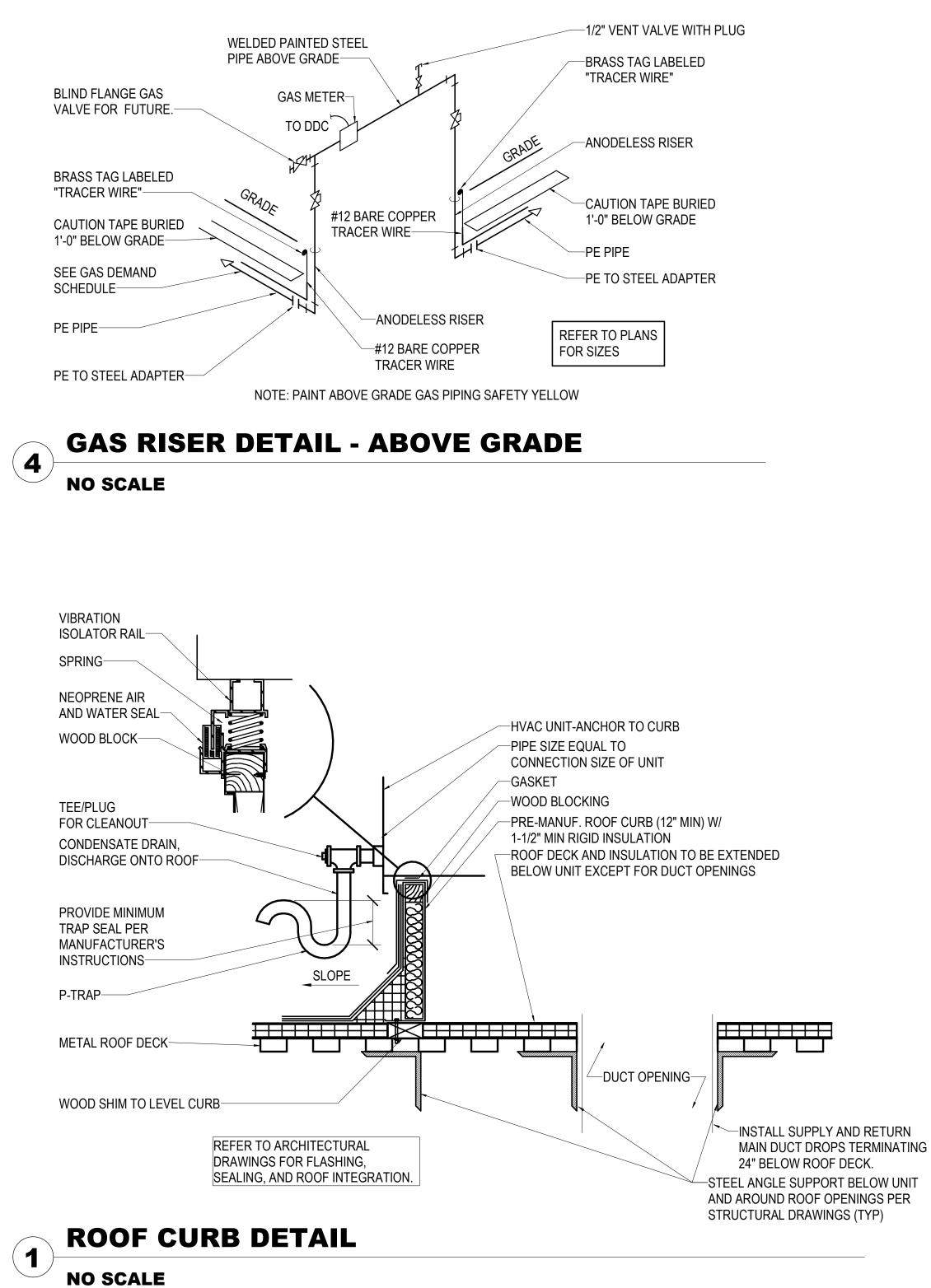


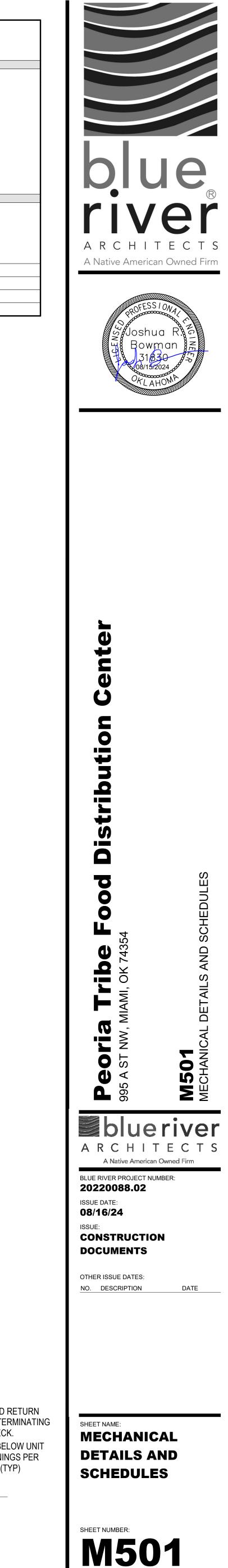
PACKAGED RTU SCHEDULE - DX COOL GAS HEAT

3. TOTAL STATIC IS BASED ON UNIT PRESSURE DROP INCLUDING FILTER PRESSURE DROP AT MIDLIFE AND WET COOLING COIL WITH DAMPERS POSITIONED IN FULL OUTSIDE AIR POSITION. TSP SHALL NOT EXCEED DESIGN TSP BY MORE THAN 10%. ANY TSP RESULTING IN AN INCREASE IN MOTOR HP SHALL BE THE RESPONSIBILITY OF THE MC TO COORDINATE WITH EC AND INCUR ANY REQUIRED COST IMPACTS.

6. ALL MOTOR SELECTIONS ARE INTENDED TO BE NON-OVERLOADING AND HP SHALL BE NO LESS THAN 20% GREATER THAN NON-OVERLOADING BHP. VOLTAGE AND PHASE LISTED ARE APPLICABLE TO BOTH MOTORS. MOTORS SHALL BE PROVIDED WITH VFDS.







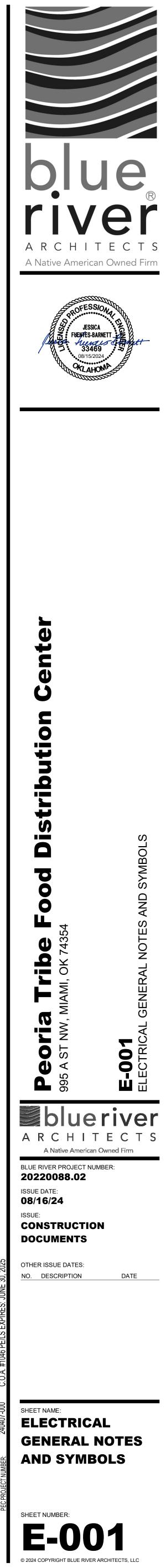
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	GENERA		NOTES
1.	ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) & THE AMERICANS WITH DISABILITIES ACT (ADA).	12.	LABEL THE FRONT OF EACH RECEPTACLE COVERPLAT WITH PANEL DESIGNATION AND CIRCUIT NUMBER USING CLEAR THERMAL TRANSFER (ELECTRONIC
2.	REFER TO RELATED ARCHITECTURAL, MECHANICAL, STRUCTURAL, TECHNOLOGY, AND CIVIL DRAWINGS FOR RELATED INFORMATION.		DYMO) LABELS WITH 1/8" HIGH BLACK LETTERS (OR CONTRASTING COLOR IF COVERPLATES ARE BLACK O BROWN). LABELS SHALL BE SUITABLE FOR INDOOR/OUTDOOR USE. LABEL THE BACK OF EACH
3.	REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.		LIGHT SWITCH COVERPLATE WITH PANEL DESIGNATIO AND CIRCUIT NUMBER USING A FINE BLACK PERMANENT MARKER.
4.	E.C. SHALL REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTION OF INTERLOCKING AND CONTROLS OF MECHANICAL UNITS AND THERMOSTAT LOCATIONS.	13.	PROVIDE 18" LONG (MIN.) CONDUIT SLEEVES THRU ALL WALLS WHERE CABLES ARE INDICATED OR REQUIRED PASS THRU WALLS. PROVIDE BUSHINGS ON BOTH END SIZE CONDUIT FOR CABLES INSTALLED. AT CABLE TRA PROVIDE ONE 4" CONDUIT SLEEVE FOR EACH 4" WIDTH
5.	COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF BRICK OR BLOCK.		CABLE TRAY. MAXIMUMS SHALL BE: 1"C. = 10 CABLES
6.	ALL MOUNTING HEIGHTS TO CENTERLINE OF ITEM UNLESS OTHERWISE NOTED. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.		2 1/2"C. = 20 CABLES 3"C. = 30 CABLES 4"C. = 50 CABLES
7.	CONDUIT RUN W/CONDUCTORS AS INDICATED & GROUND WIRE SIZED PER N.E.C. 250.122. CONDUIT SIZE AS REQUIRED.	14.	LOCATE CABLE TRAYS 6" ABOVE CEILING. OFFSET TRA UP AND OVER LIGHT FIXTURES AND DUCTWORK (FIELD VERIFY AND PROVIDE AS REQUIRED). IF PHYSICALLY
8.	WHEN INCREASED CONDUCTOR SIZES ARE SHOWN ON THE PLANS, THE LARGER CONDUCTOR SIZE SHALL BE USED THROUGHOUT THE LENGTH OF THE CIRCUIT, INCLUDING NEUTRAL AND GROUND.		IMPOSSIBLE TO RUN CABLE TRAY UP AND OVER, THEN PROVIDE CABLE SUPPORT HOOKS FROM STRUCTURE ABOVE, SIZED AND RATED FOR INSTALLED CABLES PLU 25% SPARE. ALLOW 6" OF CLEARANCE ON ALL SIDES C CABLE TRAY, UNLESS MOUNTED ON WALL.
9.	E.C. SHALL REFERENCE ARCHITECTURAL FINISH DRAWINGS FOR LOCATIONS AND HEIGHTS OF RIGID WALL COVERINGS, TILE, CHAIR RAIL, WAINSCOATING, ETC. AND ADJUST ELECTRICAL BOX ROUGH-IN HEIGHTS SO THAT COVERPLATES DO NOT PARTIALLY OVERLAP THESE ITEMS.	15.	PROVIDE DIMMER PER THE SPECIFICATIONS. COORDINATE DIMMER TYPE AND WIRING WITH ASSOCIATED LIGHT FIXTURE DIMMING REQUIREMENTS 3-WIRE, 0-10V, ELECTRONIC OR MAGNETIC LOW VOLTA ETC.) OR WITH LIGHTING CONTROL SYSTEM PROPRIET. REQUIREMENTS (I.E. LUTRON, nLIGHT, DALI, ETC.) AS NECESSARY. 3-WIRE DIMMERS SHALL BE PROVIDED W
10.	BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS WITH INDIVIDUAL NEUTRALS. A MAXIMUM OF THREE CIRCUITS (MAXIMUM OF THREE PHASE CONDUCTORS) MAY BE GROUPED IN A SINGLE CONDUIT. WHERE MULTIPLE CIRCUITS ARE LOCATED IN THE SAME RACEWAY, JUNCTION BOX OR ENCLOSURE, NEUTRALS SHALL BE MARKED OR LABELED TO INDICATE WHICH CIRCUIT THEY ARE ASSOCIATED WITH. SEE SPECIFICATION SECTION		A DEDICATED NEUTRAL FOR EACH CONTROL ZONE. 0- DIMMERS SHALL BE PROVIDED WITH DIM/ON/OFF CONTROL. COORDINATE PHASE CONTROL OF LED DRIVERS (I.E. REVERSE PHASE, FORWARD PHASE, ETC WITH LIGHT FIXTURE MANUFACTURER'S RECOMMENDATIONS. LOW VOLTAGE CONTROL WIRING NOT SHOWN ON PLANS FOR CLARITY, BUT SHALL BE PROVIDED AS REQUIRED.
	"LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES" FOR ADDITIONAL INFORMATION.	16.	"CT" INDICATED ADJACENT TO DEVICE INDICATES DEVI MOUNTED ABOVE BACKSPLASH OF COUNTER TOP.
11.	JUNCTION BOX OR RECEPTACLE FOR DRINKING FOUNTAINS SHALL BE LOCATED BEHIND THE EQUIPMENT SKIRT UNLESS OTHERWISE NOTED. COORDINATE CONNECTION TYPE AND LOCATION WITH EQUIPMENT PROVIDED.		VERIFY EXACT HEIGHT WITH ARCHITECTURAL PLANS A ELEVATIONS.
	FIRE	ALARN	Λ
F1.	THE FIRE ALARM SYSTEM SHOWN HAS BEEN DESIGNED PER THE REQUIREMENTS OF NFPA 72, 2013 EDITION. DEVICES SHOWN INDICATE DESIGN INTENT AND SHALL BE THE MINIMUM PROVIDED. SYSTEM SUPPLIER SHALL PROVIDE ANY ADDITIONAL CODE REQUIRED DEVICES OR DEVICES REQUIRED BY THE AUTHORITY HAVING JURISDICTION.	F4.	LABEL REMOTE ALARM INDICATOR FOR DUCT MOUNTED SMOKE DETECTORS (I.E. RTU-=1 SUPPLY, RTU-2 RETURN, FIRE/SMOKE DAMPER, ETC.). DUCT DETECTORS SHOULD BE LOCATED IN THE AREA BETWEEN 6 AND 10 DUCT EQUIVALENT DIAMETERS OF STRAIGHT, UNITERRUPTED DUCTWORK. DUCT DETECTORS FOR FIRE/SMOKE DAMPERS SHOULD
F2.	FIELD VERIFY LOCATIONS OF AREA SMOKE DETECTORS AND HEAT DETECTORS. DO NOT LOCATE WITHIN 36" OF A HVAC DIFFUSER (SUPPLY OR RETURN), IN A DIRECT AIR FLOW, WITHIN 36" OF A SPRINKLER HEAD, OR WITHIN 36" OF THE TIP OF A CEILING FAN BLADE. SMOKE DETECTORS FOR DOOR RELEASE SHALL BE LOCATED ON THE CENTER LINE OF THE DOOR AND A MAXIMUM OF 5 FEET FROM THE DOOR. THE MINIMUM DISTANCE FROM THE DOOR IS THE DEPTH OF THE WALL SECTION ABOVE THE DOOR, BUT NOT LESS THAN 12".	F5.	BE LOCATED BETWEEN THE LAST INLET OR OUTLET UPSTREAM OF THE DAMPER AND THE FIRST INLET OR OUTLET DOWNSTREAM OF THE DAMPER. PROVIDE 120V POWER AND FUSTAT FOR EACH FIRE/SMOKE DAMPER. INTERLOCK WITH FIRE ALARM CONTROL PANEL TO CLOSE THE FIRE/SMOKE DAMPER UPON ANY ALARM AT THE FIRE ALARM CONTROL PANE AND TO SHUTDOWN THE ASSOCIATED MECHANICAL UN
F3.			

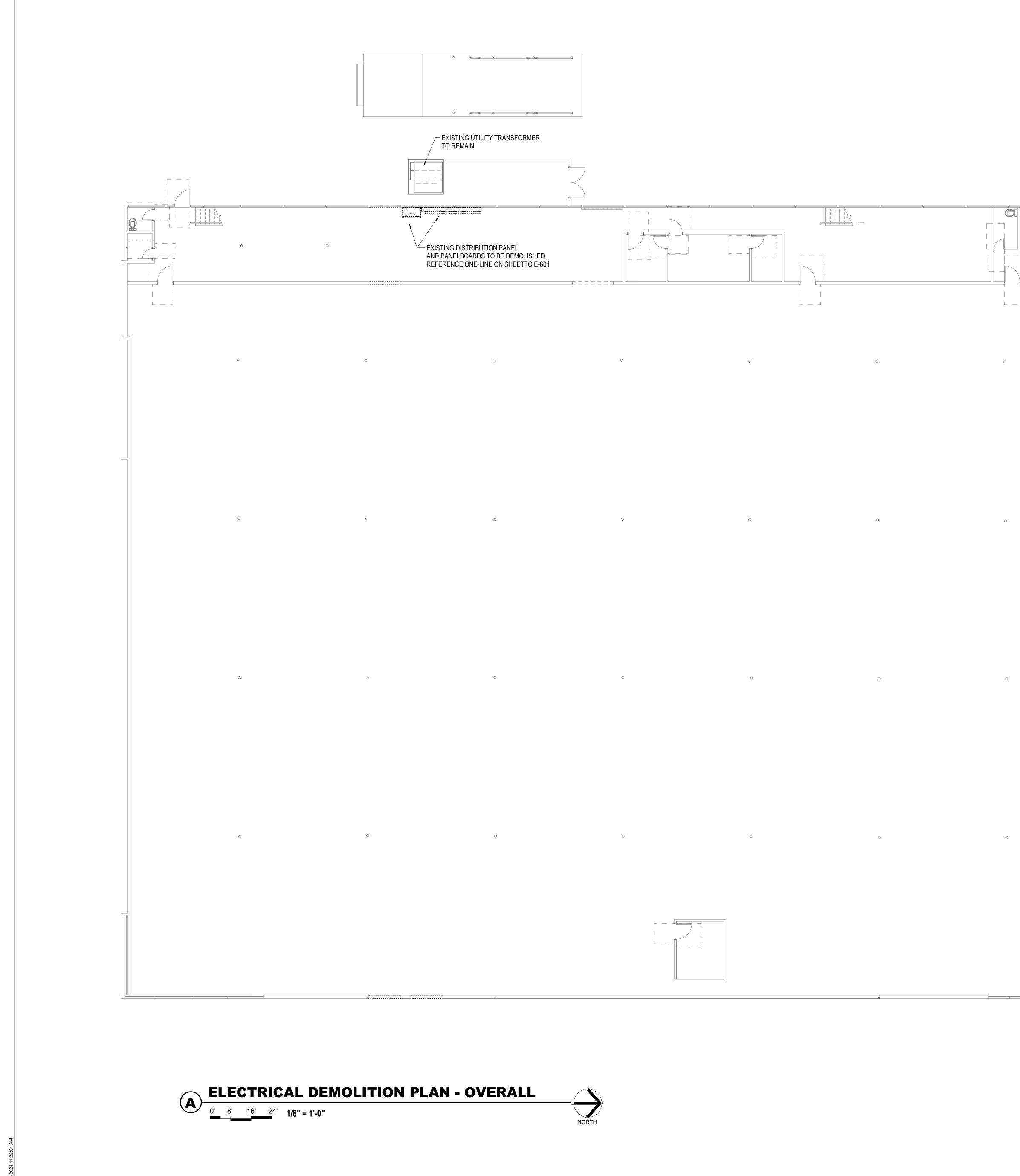
ELE	CTRICAL SHEET INDEX
SHEET NO.	SHEET TITLE
E-001	ELECTRICAL GENERAL NOTES AND SYMBOLS
E-101	ELECTRICAL DEMOLITION PLAN - OVERALL
E-131	POWER PLAN
E-132	ELECTRICAL MECHANICAL ROOF PLAN
E-501	ELECTRICAL DETAILS
E-601	ELECTRICAL ONE-LINE DIAGRAM
E-611	ELECTRICAL SCHEDULES & PANELBOARDS

	31	MBC				
SYMBOL	DESCRIPTION	MOUNTING		SYMBOL	DESCRIPTION	MOUNTING
	LIG	HTING, SWITC CLG SURF/				
	LIGHT FIXTURE & FIXTURE LETTER	RECESSED		\$ \$ 2 \$ 3 \$ 4	SWITCHES (1-POLE, 2-POLE, 3-WAY, 4-WAY)	46" AFF
юн	STRIP LIGHT FIXTURE & FIXTURE LETTER	CEILING		\$K \$P \$T	SWITCHES (KEYED, PILOT, TIMER)	46" AFF
□ _A O _A (A) ☑ _A Ø _A	LIGHT FIXTURE & FIXTURE LETTER	CLG SURF/ RECESSED		a, b, c M	INDICATES SWITCHING SCHEME 1 RELAY OCCUPANCY SENSOR SW	46" AFF
<u> </u>	LIGHT FIXTURE & FIXTURE LETTER	WALL		2M	2 RELAY OCCUPANCY SENSOR SW	46" AFF
A	EXIT SIGN (SHADING DENOTES	CLG/WALL		1D	1 RELAY OCCUPANCY SENSOR/	46" AFF
	EXIT FACE SIDE) LIGHT FIXTURE & FIXTURE LETTER	WALL			DIMMER SWITCH (GEN NOTE 15) DIMMER SWITCH (GEN NOTE 15)	46" AFF
	FIXTURE WITH SHADED LAMP(S)	CLG SURF/		Ś	LOW VOLTAGE SWITCH	46" AFF
• _A • _A	ON EMERGENCY POWER	RECESSED		\$1	ON/OFF SWITCH	46" AFF
₽₽₽ _A ₽₽₽ _A ₽₽₽₽ _A	EMERGENCY BATTERY LIGHT FIXT COMBO EXIT SIGN/EM BATTERY LIGHT	CEIL/WALL WALL		\$ 2 \$ 3	ON/OFF/0-10V DIMMING SWITCH DUAL TECH ON/OFF SENSOR	46" AFF 46" AFF
•-A •-A	LIGHT FIXTURE & FIXTURE LETTER	POLE		<u> </u>	16-SCENE WALL CONTROLLER	46" AFF
	LIGHTING TRACK, TRACK FIXTURES,	CEILING		\$ 5	DUAL TECH ON/OFF/0-10V DIM SW	46" AFF
A A	& FIXTURE LETTERS				OCCUPANCY SENSOR	CLG/WAL
PC	PHOTOCELL			LP	LIGHTING CONTROL POWER PACK UL-924 LISTED POWER PACK	
				AV	AV SYSTEM/LIGHTING INTERFACE	
				OS	DAYLIGHT SENSOR	CEILING
			OWE	R		r
 ₽	SINGLE GROUNDED RECEPTACLE DUPLEX GROUNDED RECEPTACLE	18" AFF 18" AFF		<u> </u>	BRANCH CIRCUIT PANEL AND PANEL DESIGNATION	72" TO TO
 ⊕	DUPLEX GROUNDED RECEPTACLE	CEILING			ELECTRICAL DISTRIBUTION EQUIP	
#	DOUBLE DUPLEX GROUNDED REC	18" AFF			EQUIPMENT - SEE EQUIPMENT	
 ₽	GROUND FAULT DUPLEX REC GRD FAULT DOUBLE DUPLEX REC	18" AFF 18" AFF			CONNECTION SCHEDULE CONDUIT SLEEVE (GEN NOTE 13)	
+	DUPLEX GRD REC BOTTOM SWITCHD				CABLE TRAY - WIRE BASKET,	
Ð	TAMPER-PROOF DUPLEX REC	18" AFF			LADDER (GEN NOTE 14)	
•	TAMPER-PROOF GFCI DUPLEX REC	18" AFF				
•	ELECTRICAL CONNECTION SPECIAL OUTLET (SEE			\$M	DISCONNECT SWITCH MANUAL STARTER	
$oxtimes_A oxtimes_A$	SCHEDULE OR AS NOTED)	FLOOR/WALL			CIRCUIT BREAKER	
	SPECIAL DEVICE (AS NOTED)				STARTER OR ATS (AS NOTED)	
2 1J	FEEDER DESIGNATION JUNCTION BOX - 1-GANG			 R	COMBINATION STARTER/DISC RELAY	
J	JUNCTION BOX - 2-GANG			• • ••	PUSHBUTTON (1-, 2-, 3-BUTTON)	46" AFF
F	FUSTAT BUSS #SSY	46" AFF			BOX MOUNTED TRANSFORMER	
E P	THERMOSTAT/TEMP SENSOR PLUG LOAD SENSOR	46" AFF CEILING		<u> </u> 日	CONTACTOR METER	
H	HANDICAP DOOR PUSHBUTTON	36" AFF			PLUGMOLD SURFACE RACEWAY	WALL
			-		BUSDUCT PLUG	
		ON	E-LI	NE		
LSIG	CIRCUIT BREAKER ACCESSORIES:			# 1	FUSIBLE SWITCH	
-O GFI	LSIG = LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT			А'⁄ А[]	(CIRCUIT NUMBER / SWITCH SIZE / FUSE SIZE / # OF POLES) (# OF	
	GFI = GROUND FAULT			2P	POLES IF OTHER THAN 3)	
-О К К	ST = SHUNT TRIP K = KIRK KEY INTERLOCK			# [A 7	STARTER WITH FUSIBLE SWITCH (CIRCUIT NUMBER / SWITCH	
<u> </u>	INDICATOR LIGHT (G=GREEN, R=RED)				SIZE / FUSE SIZE / # OF POLES	
	ERMS INDICATING LIGHT & SWITCH) CONTACTS (N.O., N.C.)			'1' T	/ STARTER SIZE) (# OF POLES IF OTHER THAN 3)	
	FUSE			# † # †	CIRCUIT BREAKER (MOLDED CASE	
(° لم	CIRCUIT BREAKER OVERLOADS				NON-ADJUSTABLE TRIP / ADJUSTABLE TRIP)	
<u>-), -</u> «	DRAWOUT CONTACTS			A) AF) 2P 2P	(CIRCUIT NUMBER / TRIP SIZE / #	
	DISCONNECT SWITCH (SEE EQUIP			, - ,	OF POLES) (FRAME SIZE / TRIP SIZE) (# OF POLES IF OTHER	
	CONN SCHED) (VOLTAGE / SWITCH SIZE / FUSE			~	THAN 3)	
	SIZE / # OF POLES - NOTED IF EQUIPMENT NOT SCHEDULED)			$\stackrel{{\scriptstyle (1)}}{=} \underset{\scriptstyle (1)}{\overset{\scriptstyle (2)}{\longrightarrow}}$	3Ø TRANSFORMER (DELTA PRIMARY / WYE SECONDARY)	
	STARTER (SEE EQUIP CONN SCHED)			_	1Ø TRANSFORMER	
	(VOLTAGE / STARTER SIZE / # OF POLES - NOTED IF					
	EQUIPMENT NOT SCHEDULED)			PANEL	PANELBOARD (BUILT-IN SPD)	
Ē	GROUND CONNECTION			SPD	· · · · · · · · · · · · · · · · · · ·	
0 0	LIGHTNING ARRESTOR				TRANSFER SWITCH (ATS =	
1 SPD	FEEDER DESIGNATION SURGE PROTECTIVE DEVICE			N <u>E</u> ATS	AUTOMATIC, MTS = MANUAL) (AMP SIZE / VOLTAGE / POLES	
	METER (UTILITY / PANEL MOUNTED)				/ AIC RATING / NEMA RATING) (NEMA RATING IF OTHER	
~ ~					THAN NEMA-1)	
					MOTOR STARTER [SINGLE SPEED	
	EQUIPMENT (SINGLE MOTOR / MULTI- MOTOR OR OTHER TYPE AS NOTED)			'1' _	ACROSS-THE-LINE (UON)] (NEMA SIZE /	
$\neg \square$						

	cv				ет	
				-		
SYMBOL	DESCRIPTION	MOUNTING		SYMBOL	DESCRIPTION	MOUNTING
		ABBR	EVI	ATIONS		
NL	NIGHT LIGHT - WIRE AHEAD OF			AFF	ABOVE FINISHED FLOOR	
INL	CONTROLS			AFG	ABOVE FINISHED GRADE	
EM WP	ON EMERGENCY POWER WEATHERPROOF			DF	DRINKING FOUNTAIN - SEE GENERAL NOTE 11	
CT	COUNTERTOP (SEE GEN. NOTE 16)			GAP	GENERATOR ANNUNCIATOR PANEL	
UON	UNLESS OTHERWISE NOTED			CLG	CEILING	
W	WALL			020		
		CONDUIT	ΔΝ	ID WIRING		
×	EMERGENCY CIRCUIT	CLG/WALL			CONDUIT HOME RUN, 1 CIRCUIT.	
<u>/ ~ ~</u>	MASTER/SLAVE FIXTURE WHIP				2#12 & 1#12 GRD 1/2"C.	CLG/WALL
	LOW VOLTAGE WIRING	CLG/WALL			CONDUIT HOME RUN, 2 CIRCUITS.	
	CDT RUN 2#12 & 1#12 GRD 1/2"C.	CLG/WALL			4#12 & 1#12 GRD 1/2"C.	CLG/WALL
	OR CDT RUN AS NOTED ON PLAN CDT RUN 2#12 & 1#12 GRD 3/4"C.	EARTH/		╱╫╫╼╼╼	CONDUIT HOME RUN, 3 CIRCUITS. 6#12 & 1#12 GRD 1/2"C.	CLG/WALL
	OR CDT RUN AS NOTED ON PLAN	FLOOR			CONDUIT HOME RUN, 2 CIRCUITS	CLG/WALL
<u>↓ #10</u>	CONDUIT HOME RUN, 1 CIRCUIT. 2#10 & 1#10 GRD. (GEN. NOTES 7 & 8)	CLG/WALL			- PHASE CONDUCTORS/ - NEUTRAL CONDUCTOR (#12 UON)	
					- SWITCH LEGS (#12 UON)	
$\sim \gamma$	2#12 & 1#12 GRD 1/2"C.	CLG/WALL			- GROUND CONDUCTOR (#12 UON)	
	MISC. EQUIPMENT CONNECTION					
	CONDUIT SEAL OFF					
		FIRE	AL/	ARM		
'FACP' 	FIRE ALARM CONTROL PANEL	WALL		ĒH	FIRE ALARM MANUAL STATION	46" AFF
	FIRE ALARM REMOTE ANNUNCIATOR				IONIZATION AREA SMOKE	10 / 11
	FIRE ALARM HORN	BOTTOM 80"		s,	DETECTOR (GEN NOTE F2)	
	FIRE ALARM HORN	CEILING			PHOTO ELECTRIC AREA SMOKE	
Ж.	FIRE ALARM VISUAL SIGNAL	BOTTOM 80"		s _p	DETECTOR (GEN NOTE F2)	
X	FIRE ALARM VISUAL SIGNAL	CEILING		Щ	DUCT SMOKE DETECTOR	DUCTWORK
	COMB. F.A. HORN & VISUAL SIGNAL	BOTTOM 80"		s S	(GEN NOTE F4)	DOCTWORK
	COMB. F.A. HORN & VISUAL SIGNAL	CEILING		Ц	DUCT SMOKE DETECTOR &	
S	FIRE ALARM SPEAKER	WALL		FSD		DUCTWORK
►S _C	FIRE ALARM SPEAKER	CEILING			NOTES F4 & F5)	
	COMB. F.A. SPEAKER & VIS SIGNAL	BOTTOM 80"		H	HEAT DETECTOR (GEN NOTE F2)	
	COMB. F.A. SPEAKER & VIS SIGNAL	CEILING			CARBON MONOXIDE DETECTOR	
⊒D ₀		WALL				
Œ	FIRE SPRINKLER ALARM BELL	WALL		PS	FIRE SPRINKLER PRESSURE SWITCH	
B	ELECTROMAGNETIC DOOR HOLDER	WALL		TS	FIRE SPRINKLER TAMPER SWITCH	SPRKLR RSR
R	FIRE ALARM RELAY (GEN NOTE F3)			FS	FIRE SPRINKLER WATER FLOW SW	SPRKLR RSR
СМ	FIRE ALARM CONTROL MODULE				FIRE ALARM MONITOR MODULE	
			GH	T LEGEND		
	S, LIGHT FIXTURES, ETC., DRAWN IN DA S ARE NEW TO BE INSTALLED	NRK			S, LIGHT FIXTURES, ETC., DRAWN IN DA IES ARE EXISTING TO BE REMOVED	ARK
Ф	NEW DUPLEX GROUNDED RECEPTAC	CLE		÷	DUPLEX GROUNDED REC TO BE REM	10VED
\bigcirc	NEW LIGHT FIXTURE				LIGHT FIXTURE TO BE REMOVED	
	S, LIGHT FIXTURES, ETC., DRAWN IN HA	LFTONE	1		S, LIGHT FIXTURES, ETC., DRAWN IN LIG	GHT
	EXISTING DUPLEX GROUNDED REC 1	O REMAIN			DUPLEX GROUNDED REC TO BE REL	OCATED
	EXISTING LIGHT FIXTURE TO REMAIN				LIGHT FIXTURE TO BE RELOCATED	
S)	L /MBOL LIST IS FOR REFERENCE	ONLY. ALL	ר . S		L Y NOT BE USED ON THIS PROJE	СТ
•			-			



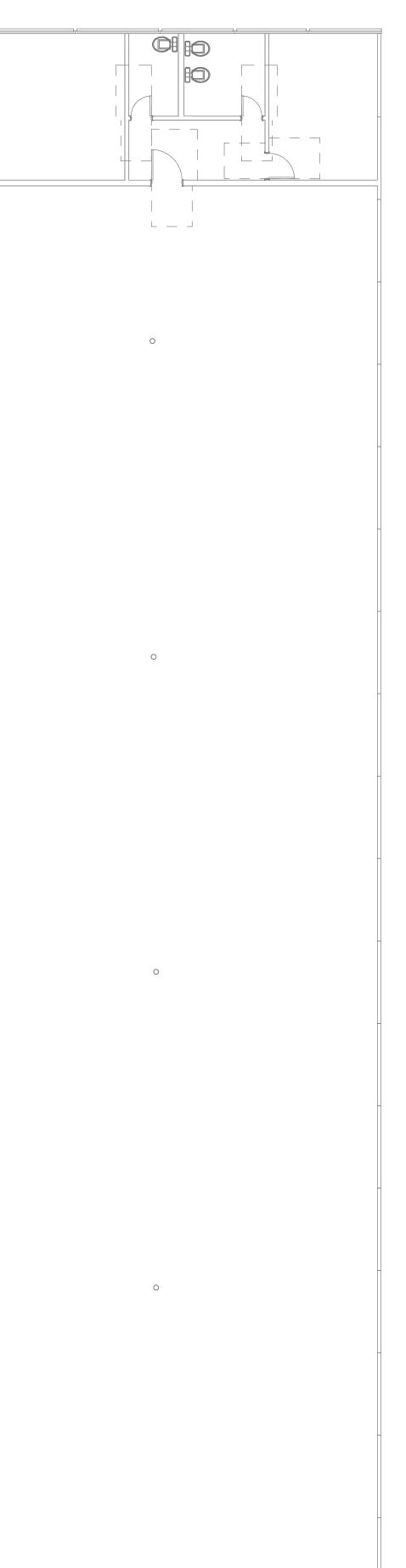


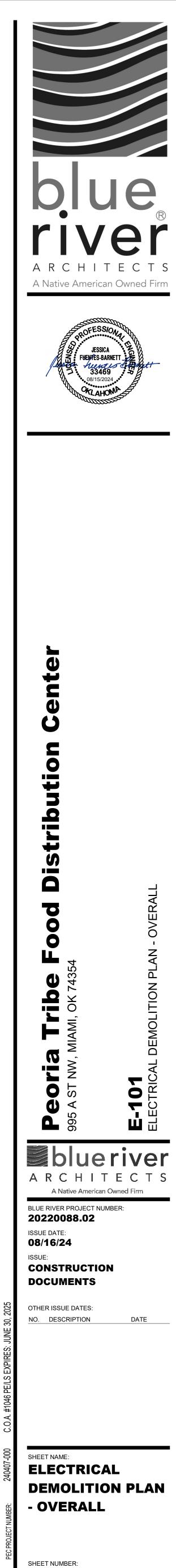


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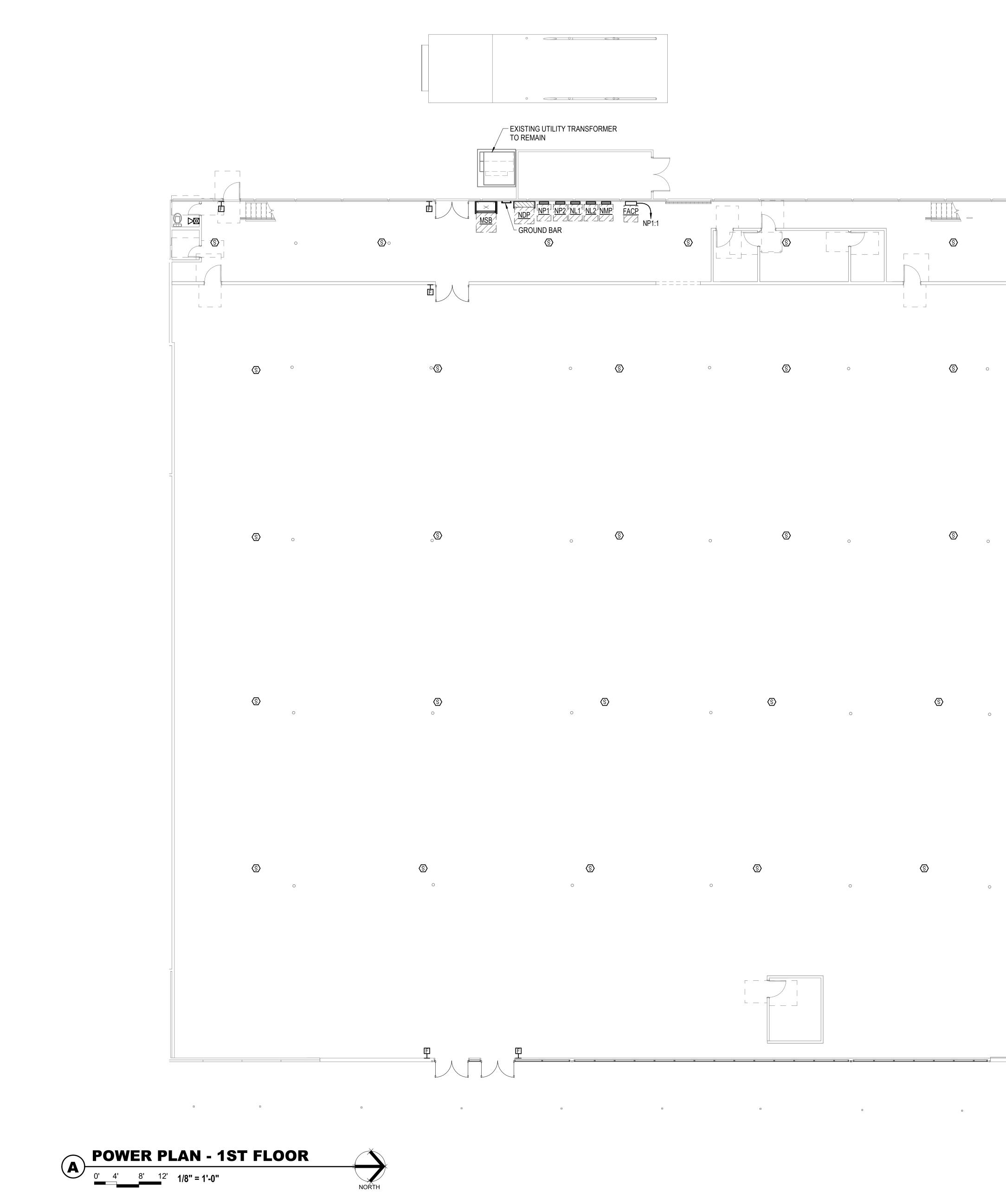
DEMOLITION GENERAL NOTES

- DEMOLITION PLANS SHOW THE GENERAL EXTENT OF THE ELECTRICAL DEMOLITION WORK. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT ELECTRICAL SERVICES TO ALL EQUIPMENT BEING REMOVED, SEE MECHANICAL PLANS. OWNER SHALL HAVE THE OPTION TO RETAIN REUSABLE ITEMS, SUCH AS COVERPLATES, RECEPTACLES, LIGHTS, PANELS, ETC. NOT BEING USED IN THE FINISHED WORK. COORDINATE WITH OWNER PRIOR TO STARTING DEMOLITION. PROPERLY AND LEGALLY DISPOSE OF ALL EQUIPMENT AND MATERIALS BEING REMOVED.
- 2. REMOVE ALL CONDUIT LEFT EXPOSED BY REMOVAL OF WALLS AND CEILINGS IN REMODELED AREAS. PLUG BOTH ENDS OF REMAINING CONDUIT IN WALL OR FLOOR WHERE CUT.
- 3. ELECTRICAL OUTLETS, ETC. POSSIBLY CONCEALED BY STORAGE SHELVING, CASEWORK, FURNITURE, ETC. ARE NOT SHOWN AND MAY REQUIRE REMOVAL.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ALL OPENINGS IN EXISTING CONSTRUCTION AFTER REMOVAL OF EQUIPMENT, RACEWAY SYSTEMS, OUTLET BOXES, ETC.
- . WHERE EQUIPMENT AND OTHER DEVICES ARE BEING REMOVED, THE CIRCUITING SHALL BE REMOVED, IF POSSIBLE, BACK TO POINT OF SUPPLY. WHERE REQUIRED, CIRCUITING SHALL BE EXTENDED TO MAINTAIN CONTINUITY OF THE CIRCUIT OR OPERATION OF THE SYSTEM.
- . ALL DEVICES SHOWN DASHED ON THE DEMOLITION PLAN(S) SHALL BE REMOVED, UNLESS NOTED OTHERWISE.
- . PROVIDE MATCHING BLANK COVERPLATES WHERE DEVICES ARE BEING REMOVED FROM FLUSH-MOUNTED OUTLET BOXES IN EXISTING WALLS TO REMAIN.
- 8. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO **BEGINNING WORK.**



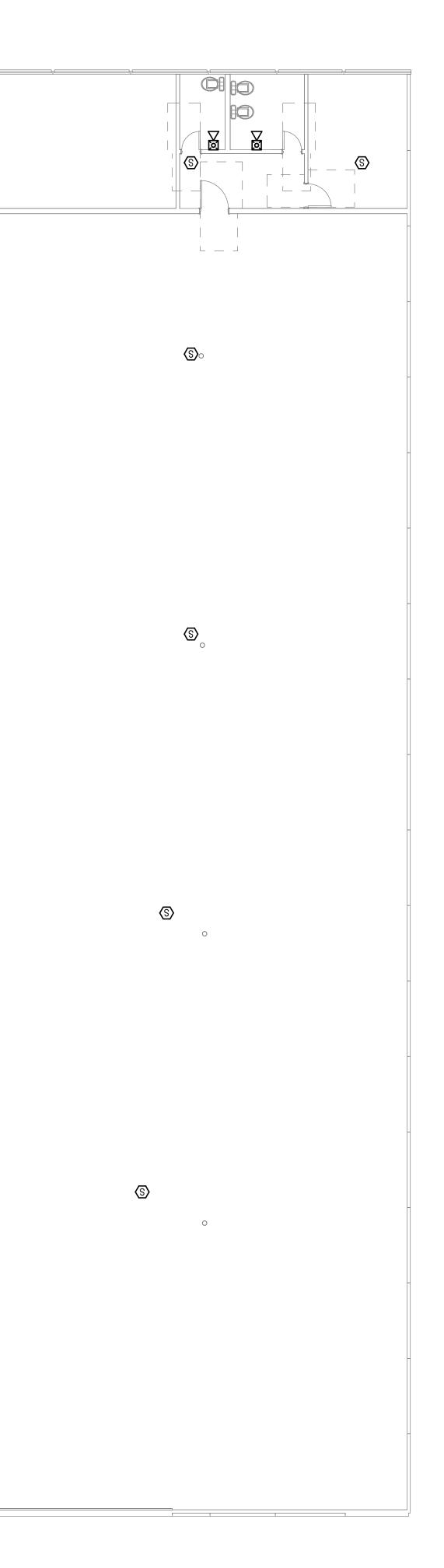


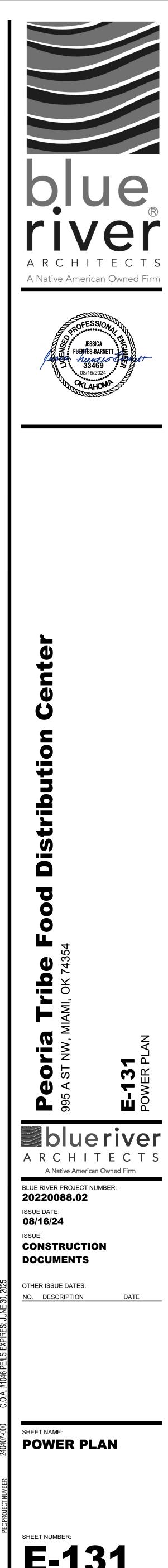
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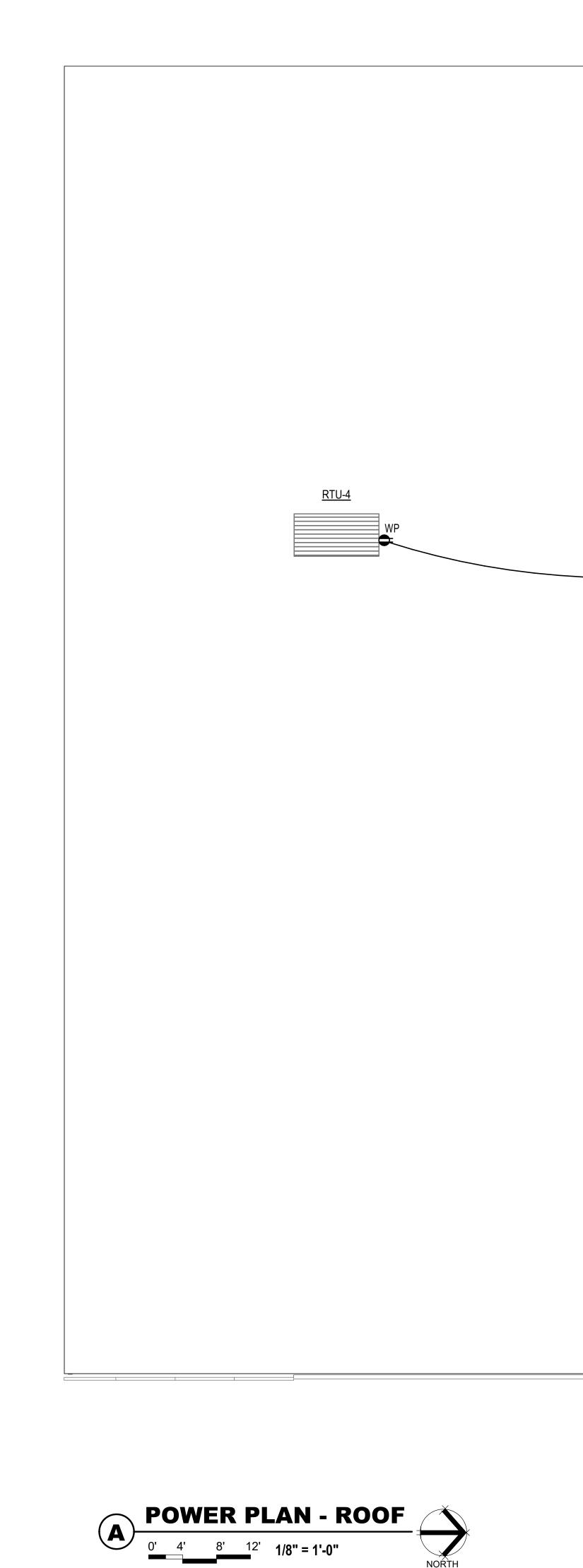
POWER GENERAL NOTES

- BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS WITH INDIVIDUAL NEUTRALS. A MAXIMUM OF THREE CIRCUITS (MAXIMUM OF THREE PHASE CONDUCTORS) MAY BE GROUPED IN A SINGLE CONDUIT. WHERE MULTIPLE CIRCUITS ARE LOCATED IN THE SAME RACEWAY, JUNCTION BOX OR ENCLOSURE, NEUTRALS SHALL BE MARKED OR LABELED TO INDICATE WHICH CIRCUIT THEY ARE ASSOCIATED WITH. SEE SPECIFICATION SECTION "LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES" FOR ADDITIONAL INFORMATION.
- A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL CONDUITS.
- 3. FOR CONNECTION REQUIREMENTS TO MECHANICAL UNITS, SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
- . REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS OF FIRE RATED WALLS AND CEILINGS AND THE ASSOCIATED U.L. ASSEMBLY NUMBERS.
- 5. FOR ALL PENETRATIONS IN FIRE RATED WALLS AND CEILINGS, PROVIDE AN ASTM E814 COMPLIANT, U.L. LISTED THROUGH PENETRATION FIRE STOPPING SYSTEM THAT IS SPECIFIC TO THE WALL OR CEILING CONSTRUCTION ASSEMBLY. INSTALL SYSTEM IN STRICT COMPLIANCE WITH THE U.L. ASSEMBLY INDICATED IN THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN FIRE RATED WALLS OR CEILINGS SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES OR PROTECTED BY OTHER MEANS ALLOWED BY THE SPECIFIC U.L. ASSEMBLY.
- . REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF STC RATED WALLS. OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) ON OPPOSITE SIDES OF STC RATED WALLS SHALL BE LIMITED TO TWO OUTLET BOXES PER STUD SPACE AND COVERED WITH "PUTTY PAD" TYPE MOLDABLE FIRE BARRIER.

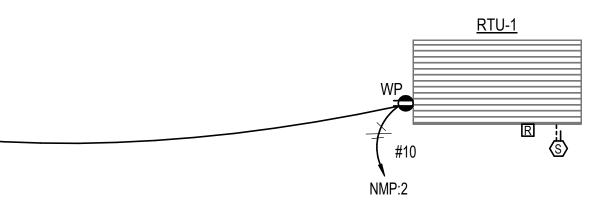


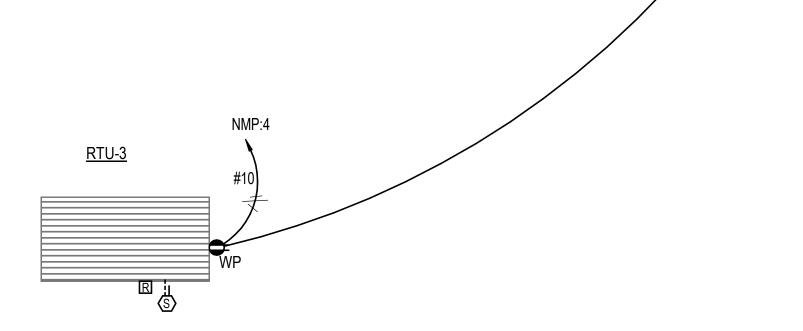


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NORTH

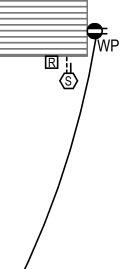


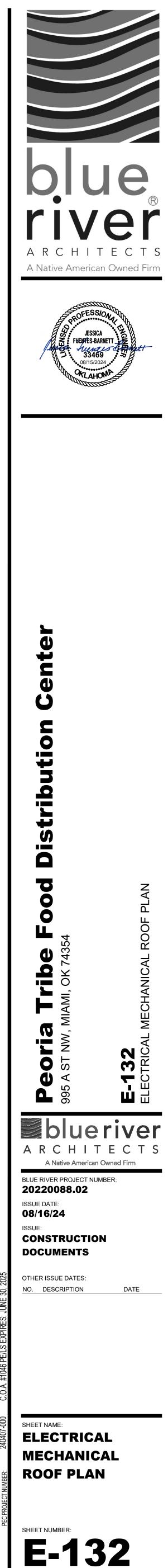


POWER GENERAL NOTES

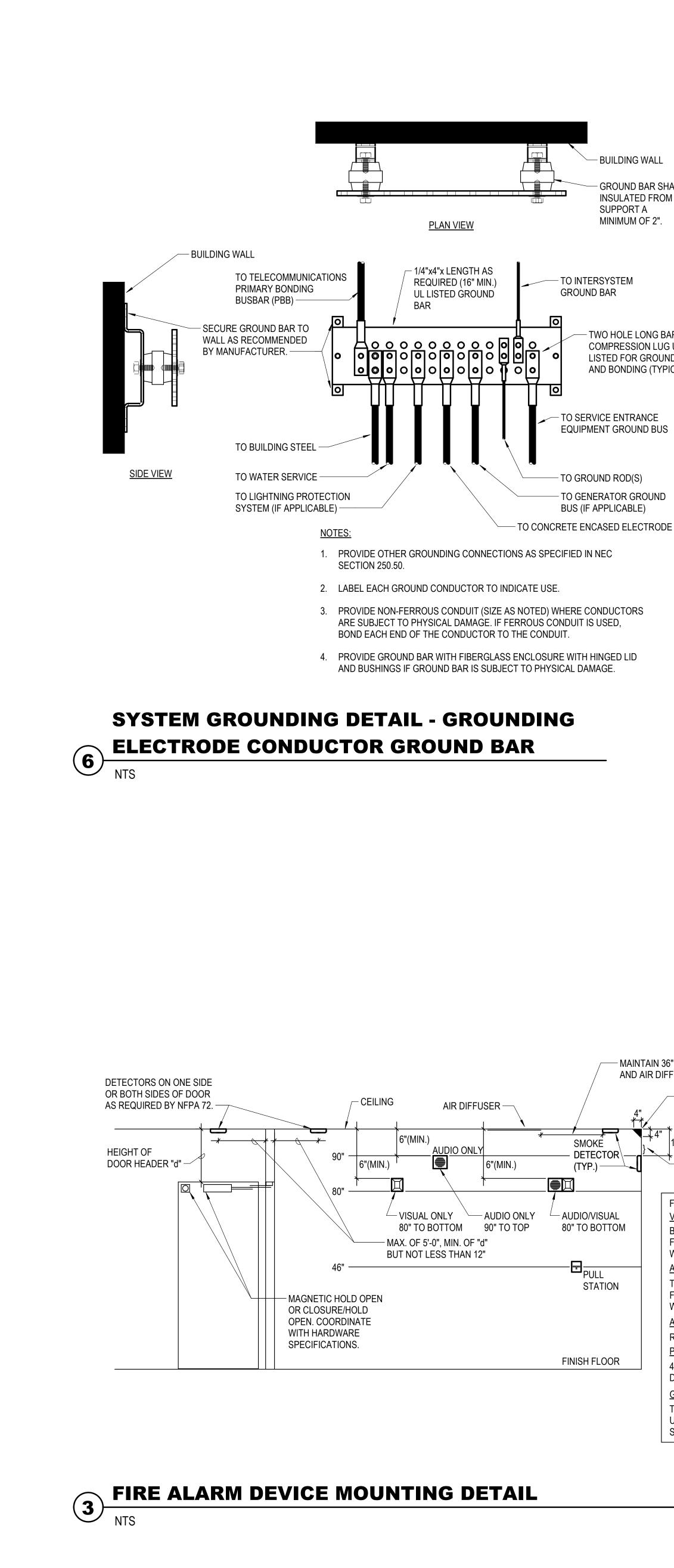
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- 8. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF STC RATED WALLS. OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) ON OPPOSITE SIDES OF STC RATED WALLS SHALL BE LIMITED TO TWO OUTLET BOXES PER STUD SPACE AND COVERED WITH "PUTTY PAD" TYPE MOLDABLE FIRE BARRIER.







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- BUILDING WALL

- GROUND BAR SHALL BE INSULATED FROM ITS SUPPORT A MINIMUM OF 2".

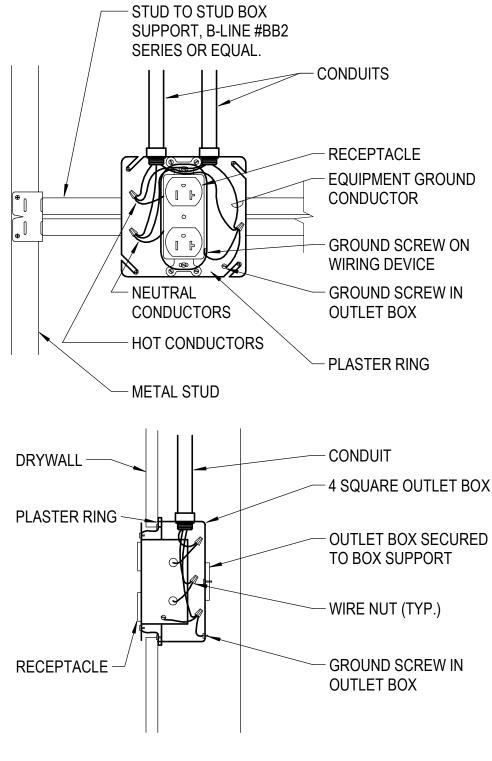
- TO INTERSYSTEM GROUND BAR

> TWO HOLE LONG BARREL COMPRESSION LUG UL LISTED FOR GROUNDING AND BONDING (TYPICAL)

TO SERVICE ENTRANCE EQUIPMENT GROUND BUS

- TO GROUND ROD(S) TO GENERATOR GROUND BUS (IF APPLICABLE)

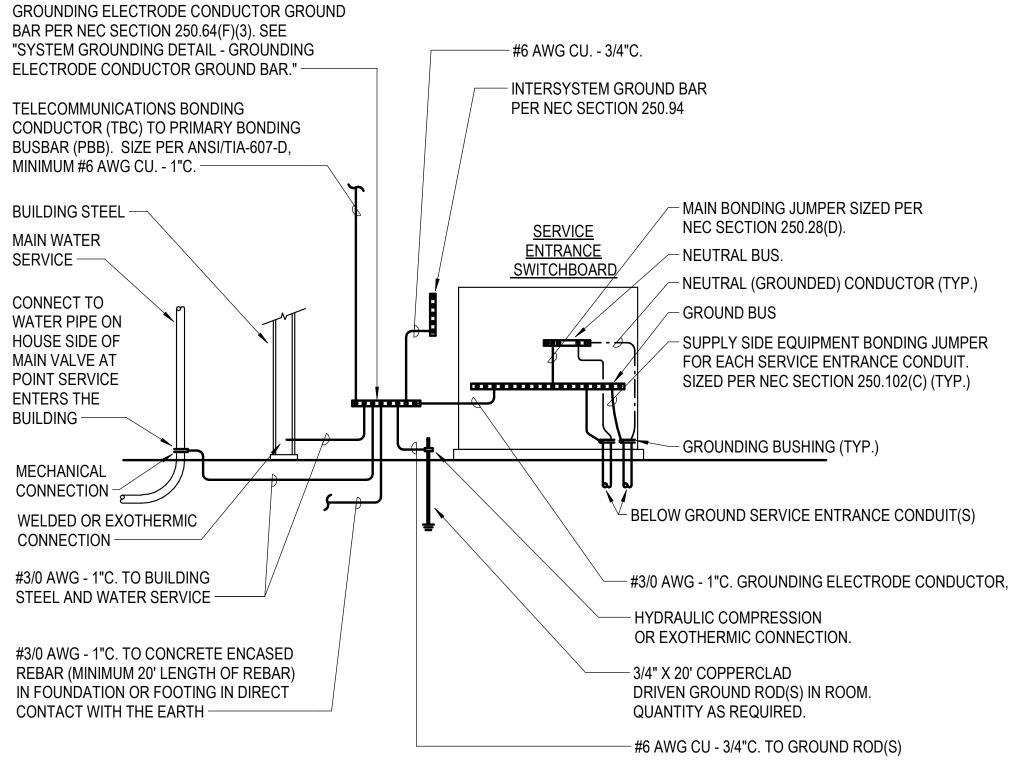
- MAINTAIN 36" BETWEEN SMOKE DETECTOR AND AIR DIFFUSER/REGISTER/GRILL DO NOT PLACE DETECTOR IN THIS AREA SMOKE 12' DETECTOR - TOP OF DETECTOR (TYP.) -ACCEPTABLE HERE FIRE ALARM DEVICE MOUNTING CRITERIA - AUDIO/VISUAL VISUAL UNIT 80" TO BOTTOM BOTTOM OF DEVICE 80" ABOVE HIGHEST FLOOR LEVEL OR 6" BELOW CEILING WHICH EVER IS LOWER. - 🖃 – PULL <u>AUDIO UNIT</u> TOP OF DEVICE 90" ABOVE HIGHEST STATION FLOOR LEVEL OR 6" BELOW CEILING WHICH EVER IS LOWER. AUDIO/VISUAL UNIT REFER TO THE VISUAL UNIT. PULL STATION FINISH FLOOR 46" AFF TO CENTERLINE, TOP OF DEVICE SHALL NOT BE MORE THAN 48" AFF GENERAL NOTE THESE GUIDELINES SHALL BE USED UNLESS MOUNTING HEIGHTS HAVE BEEN SPECIFIED OTHERWISE ON THE DRAWINGS.



TYPICAL RECEPTACLE MOUNTING DETAIL

ENTERS THE BUILDING —

NOTES:



1. PROVIDE OTHER GROUNDING CONNECTIONS AS SPECIFIED IN NEC SECTION 250.50.

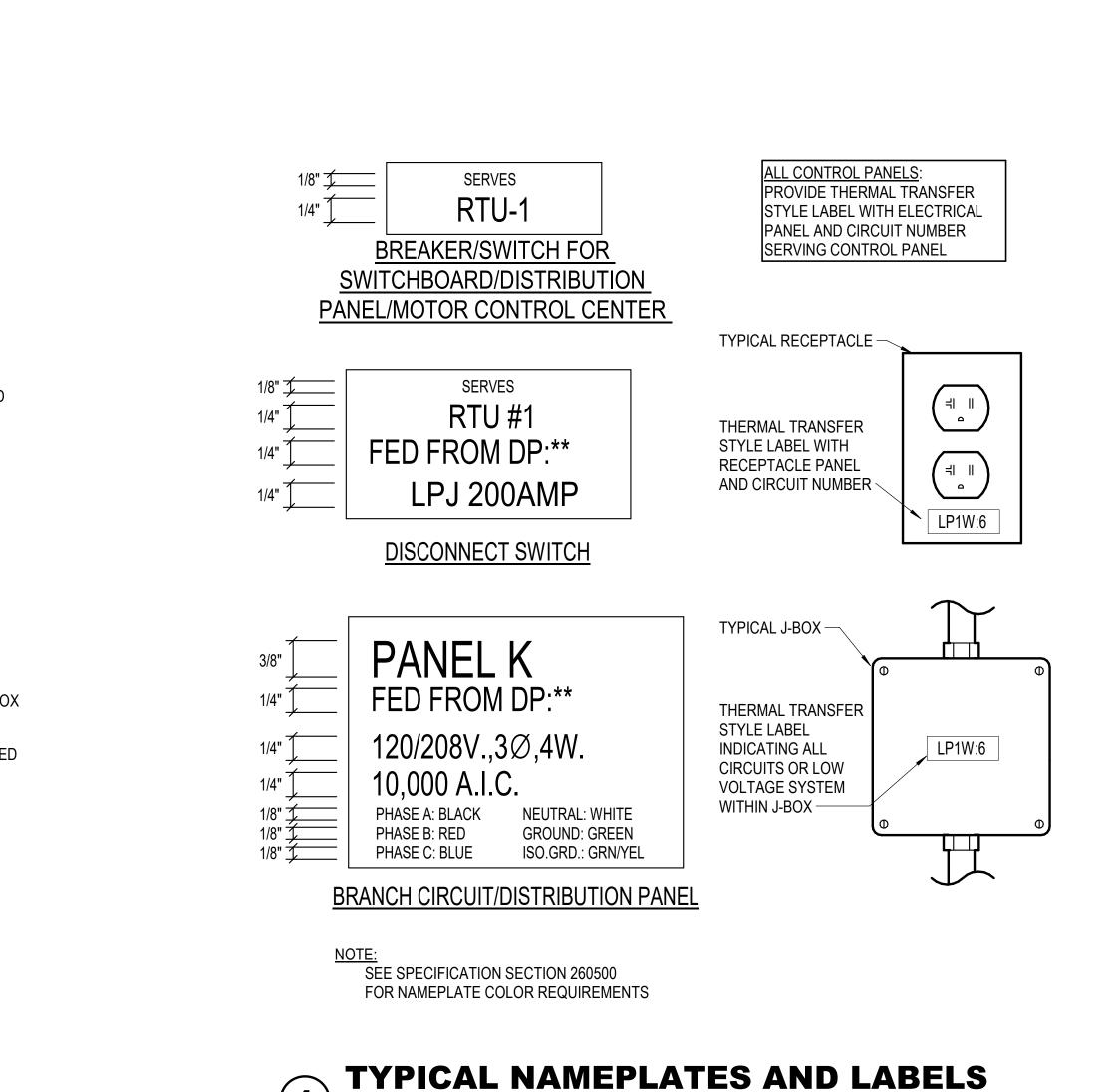
5 SYSTEM GROUNDING DETAIL

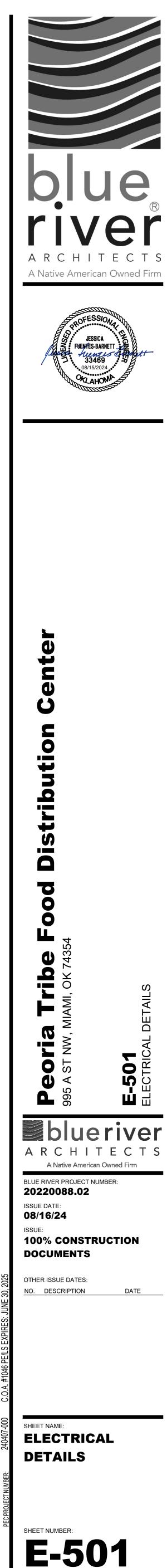
NTS

2. LABEL EACH GROUNDING ELECTRODE CONDUCTOR AND BONDING JUMPER.

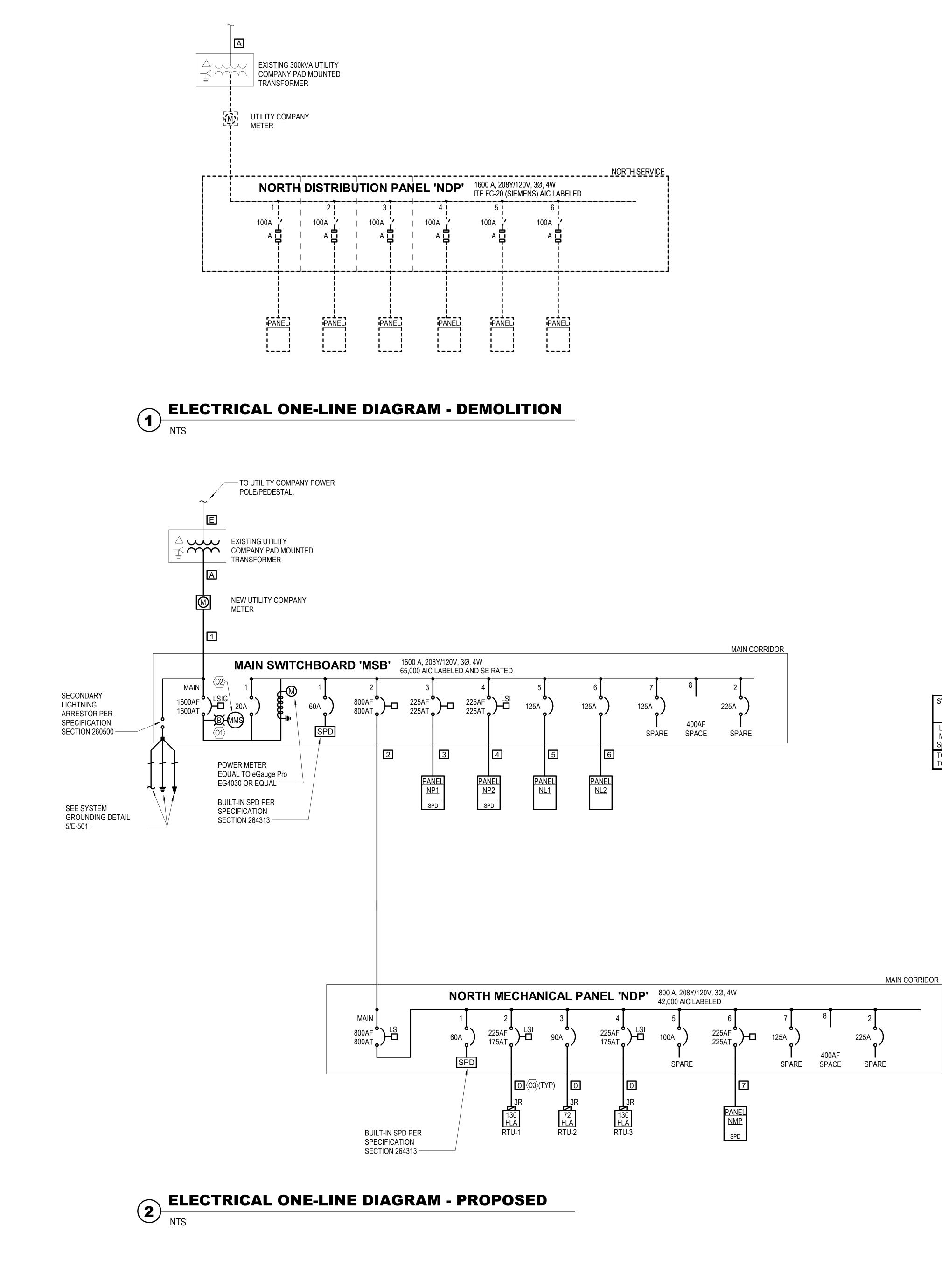
3. WHERE CONDUCTORS ARE ROUTED IN FERROUS CONDUIT, BOND BOTH ENDS

OF THE CONDUIT TO THE CONDUCTOR.





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SWITCHBOARD:	MSB										
		CONNEC	TED KV	A:	DEMA	ND	CONT.		SIZING	AMPS:	
	PH-A	PH-B	PH-C	TOTAL	FACTOR	KVA	FACT	TOTAL	PH-A	PH-B	PH-C
Largest Motor	0.0	0.0	0.0	0.0	1	0.0	0.25	10.2	10.3	10.3	10.3
Motor	43.8	42.1	42.1	127.9	1	127.9	1	355.2	364.6	350.8	350.8
Spare					0.2	25.6	1	71.0	71.1	71.1	71.1
TOTAL KVA:	43.8	42.1	42.1	127.9		153.5	TOTA	L AMPS:	PH-A	PH-B	PH-C
TOTAL AMPS:	364.6	350.8	350.8	355.1				436.4	445.9	432.1	432.1

ONE-LINE DIAGRAM GENERAL NOTES

UNLESS OTHERWISE NOTED, ALL CIRCUIT BREAKERS AND/OR SWITCHES

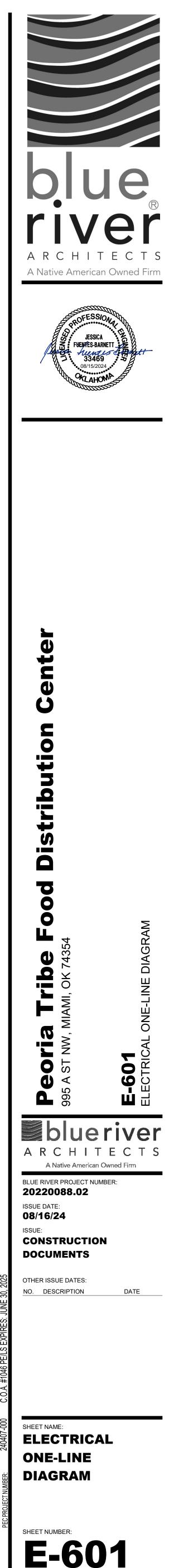
- ARE THREE POLE. ALL ELECTRICAL EQUIPMENT AND WIRING SHOWN IN A LIGHT LINE, IS
- EXISTING TO REMAIN.
- 3. ALL ELECTRICAL EQUIPMENT AND WIRING SHOWN IN A DARK LINE, IS NEW WORK UNDER THIS CONTRACT. ----
- ALL ELECTRICAL EQUIPMENT AND WIRING SHOWN IN A DARK DASHED LINE, IS TO BE REMOVED UNDER THIS CONTRACT. ------

(#) <u>KEYNOTES</u>

01 BLUE LIGHT - ILLUMINATED WHEN BREAKER IS IN MAINTENANCE MODE. LABEL MAINTENANCE MODE. 02 MAINTENANCE MODE SWITCH WITH LOCKABLE COVER: SWITCH SHALL ACTIVATE AND DEACTIVATE CIRCUIT BREAKER MAINTENANCE MODE. PROVIDE EQUAL TO SQUARE D #AMS OR ENGINEER /OWNER APPROVED EQUIVALENT. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR FEEDER O3 REQUIREMENT.

	FEE	ED	EF	R SCHED	ULE			
				CONDUCTORS	GROUND	ISOLATED		SPARE
DESIG.	EQUIPMENT SERVED	SETS	NO.	SIZE	SIZE PER SET	GROUND SIZE	SIZE PER SET	SPARE CONDUIT
1	SWITCHBOARD:MSB	5	4	#400 kcmil CU	#4/0		3-1/2"C.	
2	DISTRIBUTION PANEL:NDP	2	4	#600 kcmil CU	#1/0		4"C.	
3	PANELBOARD:NP1	1	4	#4/0 AWG CU	#4		3"C.	
4	PANELBOARD:NP2	1	4	#4/0 AWG CU	#4		3"C.	
5	PANELBOARD:NL1	1	4	#1 AWG CU	#8		2"C.	
6	PANELBOARD:NL2	1	4	#1 AWG CU	#8		2"C.	
7	PANELBOARD:NMP	1	4	#4/0 AWG CU	#4		3"C.	
Ε	EXISTING							
0	REFER RO EQUIPMENT SCHEDULE							
Α	COORDINATE WITH UTILTY COMPANY							

DISTRIBUTION P	ANEL: ND	Р									
		CONNEC	TED KV/	A:	DEMA	ND	CONT.		SIZING	AMPS:	
	PH-A	PH-B	PH-C	TOTAL	FACTOR	KVA	FACT	TOTAL	PH-A	PH-B	PH-C
Largest Motor	0.0	0.0	0.0	0.0	1	0.0	0.25	10.2	10.3	10.3	10.3
Motor	43.8	42.1	42.1	127.9	1	127.9	1	355.2	364.6	350.8	350.8
Spare					0.2	25.6	1	71.0	71.1	71.1	71.1
TOTAL KVA:	43.8	42.1	42.1	127.9		153.5	TOTA	L AMPS:	PH-A	PH-B	PH-C
TOTAL AMPS:	364.6	350.8	350.8	355.1				436.4	445.9	432.1	432.1



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				LBOARD:								/OLTS, 3 PHA /ILO, SURFACE LABELED	,	RE
	RC	LOAD	LOAD	LOAD DESCRIPTION	Р		amp Size	PHASE	amp Size		LOAD DESCRIPTION	LOAD TYPE		C N
2 1	1	200	POWR	FIRE ALARM PANEL	1	1	20	А	20	1	SPARE			
3	3			SPARE	1	1	20	В	20	1	SPARE			
5	5			SPARE	1	1	20	С	20	1	SPARE			
7	7			SPARE	1	1	20	А	20	1	SPARE			
ç)			SPARE	1	1	20	В	20	1	SPARE			Ĺ
1	1			SPARE	1	1	20	С	20	1	SPARE			Ĺ
1	3			SPARE	1	1	20	А	20	1	SPARE			ĺ
1	5			SPARE	1	1	20	В	20	1	SPARE			ĺ
1	7			SPARE	1	1	20	С	20	1	SPARE			ŕ
1	9			SPARE	1	1	20	А	20	1	SPARE			2
2	1			SPARE	1	1	20	В	20	1	SPARE			2
2	3			SPARE	1	1	20	С	20	1	SPARE			2
2	5			SPARE	1	1	20	Α	20	1	SPARE			2
2	7			SPARE	1	1	20	В	20	1	SPARE			2
2	9			SPARE	1	1	20	С	20	1	SPARE			3
3	1			SPARE	1	1	20	Α	20	1	SPARE			3
3	3			SPARE	1	1	20	В	20	1	SPARE			3
3	5			SPARE	1	1	20	С	20	1	SPARE			3
3	7			SPD	3	3	60	Α	20	1	SPARE			3
3	9					_		В	20	1	SPARE			4
4	1					_		С	20	1	SPARE			2

 41
 --- -- |
 C
 20
 1
 SPARE

 ①
 PROVIDE RED HANDLE LOCK-ON CLIP ON CIRCUIT BREAKER.

-									225 AMP MLO, S		MTD.	
			PROTECTION DEVICE, W/GRD.			ТШ			65000 AIC LABE			
CIRC NO.	LOAD V. A.		LOAD DESCRIPTION	P.	AMI SIZE	PHAS	AMP SIZE	Ρ.	LOAD DESCRIPTION	LOAD TYPE	Load V. a.	
1	7043	MOTR	RTU-4	3			20		ROOF SERVICE RECEPTACLE	RCPT	400	1
3						В	20	1	ROOF SERVICE RECEPTACLE	RCPT	400	-
5					.	С	20	1	SPARE			-
7			SPARE	3	30	Α	20	1	SPARE			
9						В	20	1	SPARE			
11						С	20	1	SPARE			
13			SPARE	3	20	Α	20	1	SPARE			
15					·	В	20	1	SPARE			
17					·	С	20	1	SPARE			
19			SPARE	2	20	А	20	1	SPARE			
21					.	В	20	1	SPARE			
23			SPARE	2	20	С	20	1	SPARE			
25					.	А			SPACE			
27			SPARE	1	20	В			SPACE			
29			SPARE	1	20	С			SPACE			
31			SPARE	1	20	А			SPACE			
33			SPARE	1	20	В			SPACE			
35			SPARE	1	20	С			SPACE			
37			SPD	3	60	А			SPACE			
39					·	В			SPACE			
41						С			SPACE			

		LBOARD: NP							208Y/120 VOLTS, 3 225 AMP MLO, SUR 22000 AIC LABELED	FACE		₹E
CIRC NO.	LOAD V. A.	LOAD DESCRIPTION	P.	amp Size	PHASE	amp Size	P.	LOAD DESCRIPTION		LOAD TYPE	Load V. a.	CIRC NO.
1		SPARE	1	20	Α	20		SPARE				2
3		SPARE	1	20	В	20	1	SPARE				4
5		SPARE	1	20	С	20	1	SPARE				6
7		SPARE	1	20	Α	20	1	SPARE				8
9		SPARE	1	20	В	20	1	SPARE				10
11		SPARE	1	20	С	20	1	SPARE				12
13		SPARE	1	20	Α	20	1	SPARE				14
15		SPARE	1	20	В	20	1	SPARE				16
17		SPARE	1	20	С	20	1	SPARE				18
19		SPARE	1	20	Α	20	1	SPARE				20
21		SPARE	1	20	В	20	1	SPARE				22
23		SPARE	1	20	С	20	1	SPARE				24
25		SPARE	1	20	Α	20	1	SPARE				26
27		SPARE	1	20	В	20	1	SPARE				28
29		SPARE	1	20	С	20	1	SPARE				30
31		SPARE	1	20	Α	20	1	SPARE				32
33		SPARE	1	20	В	20	1	SPARE				34
35		SPARE	1	20	С	20	1	SPARE				36
37		SPD	3	60	Α	20	1	SPARE				38
39		 			В	20	1	SPARE				40
41		 			С	20	1	SPARE				42

	AN RD. BUS	LBOARD: NL							208Y/120 VOLTS, 3 125 AMP MLO, SUR 65000 AIC LABELEE	FACE		₹E
circ No.		LOAD DESCRIPTION	P.	amp Size	PHASE	amp Size		LOAD DESCRIPTION		load Type	LOAD V. A.	CIRC NO.
1		SPARE	1	20	А	20	1	SPARE				2
3		SPARE	1	20	В	20	1	SPARE				4
5		SPARE	1	20	С	20	1	SPARE				6
7		SPARE	1	20	А	20	1	SPARE				8
9		SPARE	1	20	В	20	1	SPARE				10
11		SPARE	1	20	С	20	1	SPARE				12
13		SPARE	1	20	А	20	1	SPARE				14
15		SPARE	1	20	В	20	1	SPARE				16
17		SPARE	1	20	С	20	1	SPARE				18
19		SPARE	1	20	Α	20	1	SPARE				20
21		SPARE	1	20	В	20	1	SPARE				22
23		SPARE	1	20	С	20	1	SPARE				24
25		SPARE	1	20	А	20	1	SPARE				26
27		SPARE	1	20	В	20	1	SPARE				28
29		SPARE	1	20	С	20	1	SPARE				30

PAN W/GRD. BUS								208Y/120 VOLTS, 3 125 AMP MLO, SUF 22000 AIC LABELE	RFACE		RE
CIRC LOAD NO. V. A.	LOAD LOAD TYPE DESCRIPTION	P.	AMP SIZE	PHASE	AMP SIZE	P.	LOAD DESCRIPTION		LOAD TYPE	Load V. a.	CIR NO
1	SPARE	1	20	А	20	1	SPARE				2
3	SPARE	1	20	В	20	1	SPARE				4
5	SPARE	1	20	С	20	1	SPARE				6
7	SPARE	1	20	Α	20	1	SPARE				8
9	SPARE	1	20	В	20	1	SPARE				10
11	SPARE	1	20	С	20	1	SPARE				12
13	SPARE	1	20	Α	20	1	SPARE				14
15	SPARE	1	20	В	20	1	SPARE				16
17	SPARE	1	20	С	20	1	SPARE				18
19	SPARE	1	20	Α	20	1	SPARE				20
21	SPARE	1	20	В	20	1	SPARE				22
23	SPARE	1	20	С	20	1	SPARE				24
25	SPARE	1	20	Α	20	1	SPARE				26
27	SPARE	1	20	В	20	1	SPARE				28
29	SPARE	1	20	С	20	1	SPARE				30

							CHANIC	<u>AL I</u>				NT CONN			
UNIT DESIG	UNIT VOLTAGE		<u>load</u> Fla				SW. FUSE ONEMA SW. FUSE ONEMA AMPSAMPS ONE SIZE	^a BKR. T. AMPS						FEEDER DESCRIPTION OR SEE THE FEEDER SCHEDULE	REMARKS OR SEE THE INDICATED NOTES BELOW
RTU	ROOF TOF		-			· · · ·									
1 2	208/3 208/3	22.4A	71.8	25.86	NDP:3	175 90	3		100	150 3 80 3	3	NEMA-3R NEMA-3R	1	3 #2/0 AWG THWN; #6 AWG GRD; 2"C. 3 #2 AWG THWN; #8 AWG GRD; 1-1/4"C.	
3 4	208/3 208/3	41A 12.9A	129.6 19.6	46.69 7.043	NDP:4 NMP:1	175 35	3			150 3 25 3		NEMA-3R NEMA-3R	1	3 #4/0 AWG THWN; #4 AWG GRD; 2-1/2"C. 3 #8 AWG THWN; #10 AWG GRD; 3/4"C.	
G S J	R = SINGL B = JUNCT	Grou E rec Ion b	ND FA CEPTA OX	AULT (ACLE			RUPTER DUF JTLET SCHEI			EPT	ACLE				
														ED AND INSTALLED BY THE ELECTI Y OTHERS PRIOR TO ROUGH-IN.	RICAL
											-			CIATED WITH WIRING AND CONNE R CONTROLS OF MECHANICAL EC	
\smile															

