

Construction Bulletin # 3

Client: Abla Griffin Partnership Project Name: Fairview Elementary Office Addition Project Number: 2023-04386-00

April 2, 2024

Requested by: <u>X</u> Owner <u>Contractor:</u> Salas O'Brien:

To: Mike Abla, Clay Griffin, AGP

This Construction Bulletin is issued to:

- ____ Offer additional information for clarification or supplemental drawings for layout assistance.
- Request cost and time impact to initiate a change to the Contract Documents. Owner approval is required, do not commence with revisions unless directed in writing. Avoid Work in areas that may be affected by proposed change until approved or rejected. Once approved, forward Change Order documentation as required by the Contract Documents.
- Direct a required change in the Contract Documents. Proceed with change(s) as indicated. Forward Change Order documentation as required by the Contract Documents.
- X Response to RFI 002.

Item No.	Description	Attachment
1	Refer to drawings for changes shown in clouds and deltas.	M000
2	Refer to drawings for changes shown in clouds and deltas.	M101
3	Refer to drawings for changes shown in clouds and deltas.	P101
4	Refer to drawings for changes shown in clouds and deltas.	P102
5	Refer to drawings for changes shown in clouds and deltas.	E401

END OF CB-03





	GRILLE, REGISTER, AND DIFFUSER SCHEDULE											
PLAN SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NO.	MATERIAL	FINISH	NOISE CRITERIA							
CDR-1	SQUARE FACE, ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, SPRING LOCK INNER CORE, FOR LAY-IN CEILING INSTALLATION.	PRICE SCD (4C)	ALUMINUM	WHITE	_							
CDR-2	SQUARE FACE, ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, SPRING LOCK INNER CORE, FOR SURFACE MOUNT INSTALLATION.	PRICE SCD (4C)	ALUMINUM	WHITE	-							
RG-1	SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"X1/2"X1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR LAY-IN CEILING INSTALLATION.	PRICE 80	ALUMINUM	WHITE	-							
<u>NOTES:</u>	SEE PLANS FOR QUANTITY AND SIZES. M.C. TO FIELD VERIFY CEILING TYPE FOR ALL GRD BEFORE PURCHASING EQUIPMENT. PROVIDE REQUIRED MOUNTING).).										

		LOW PR	ESSURE		MED.	PRESS	HIGH PRESS.			INSULA	TION		
			SEAL		МАХ		MAX						
SYSTEM	MAX. PRES.	А	В	С	PRES.	SEAL A	PRES.	SEAL A	INTERNAL	THICKNESS	EXTERNAL	THICKNESS	NOTES
SUPPLY AIR WITHIN 10' OF UNIT	2"	Х	-	_	-	-	_	-	YES	1"	NO	-	-
SUPPLY AIR BEYOND 10' OF UNIT	2"	Х	-	_	-	-	-	-	NO	-	YES	2"FSK	-
RETURN AIR WITHIN 10' OF UNIT	2"	-	X	-	-	-	-	-	YES	1"	NO	-	_
RETURN AIR BEYOND 10' OF UNIT	2"	-	X	-	-	-	-	-	NO	-	YES	2" FSK	_
OUTSIDE AIR/MIXED AIR	2"	_	Х	-	_	_	_	_	NO	_	YES	3" FSK	_

			ROOF I	HOOD SCHED	ule - Base	E DESIGI	N							
RH #	THROAT SIZE DIMENSION (IN)	THROAT AREA (FT ²)	DAMPER BDD OR MOD	CONSTRUCTION	MANUFACT	۷٥.	COMMENTS							
3	8X24	1.33	MOD	ALUMINUM	GRI	EENHECK FGI	COLOR BY ARCHITECT	1-3						
	 M.C. TO PROVIDE ROOF HOOD WITH ALUMINUM BIRDSCREEN. M.C. SHALL PROVIDE ROOF CURB. CURB INSTALLATION BY G.C. M.C. SHALL PROVIDE LOW VOLTAGE MOTORIZED DAMPER. 													
		G	AS FUR	NACE SCHE	DULE - BA	SE DES	IGN							
F #		FM MIN F.A.	EXT. S.P. HEAT EXCH		H.P. ELEC. CHAR		FILTER MERV 8 MIN.	MANUFACTURER & MODEL NO.	NOTES					
	Image: MBH MBH MBH MIN F.A. S.P. HEAT EXCH. MIL SIZE DRIVE H.P. ELEC. CHAR PILOT VENT MERV 8 MIN. MANDFACTORER & MODEL NO. HOTE 1 HORIZ 60 58 1050 300 0.6 ALUMINIZED STL 11X11 DIRECT 0.5 120/1 HOT S 3" 2" TA YORK TM9V060B12MP12C 1-4 NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSION, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT. 1. PROVIDE CONCENTRIC VENT. INSTALL PER MANUFACTURER INSTRUCTIONS. MAINTAIN MINIMUM CLEARANCES: 36" BETWEEN VENTS, 10'-0" FROM ANY FRESH AIR INTAKE. 2. PROVIDE CO2 SENSOR, INSTALLATION BY CONTROLS CONTRACTOR. INTERLOCK CO2 SENSOR WITH MOTORIZED DAMPER IN OUTSIDE AIR DUCT. 3. PROVIDE FURNACE WITH 2 STAGE HEATING. 3. DUCT SMOKE DETECTOR AND REMOTE TEST STATION PROVIDED BY AND INSTALLED BY E.C. REMOTE TEST STATION TO BE LOCATED IN OCCUPIED SPACE AND CONNECTION TO FIRE ALARM SYSTEM BY E.C. COORDINATE WITH E.C.													

				CO	NDE	NSI
				CONDENS	ING UNIT	
	NOMINAL TONNAGE	ELEC. CHAR	MCA	MOCP	S.E.E.R	WEIGHT (LBS)
1	3	208/1	21.4	35	15.5	295
2. 3. 4. 5. 6.	EQUIPMENT. E.C. TO PF M.C. TO IN TWO STAGE FOR LINE MOUNT UN INSULATE S	PONSIBLE FO ROVIDE AND I ICLUDE PRE- E COOLING. LENGTH EXCE ITS ON CONE SUCTION LINE NIT WITH HAI	INSTALL CHARGEI EEDING 5 DENSING I WITH 5	POWER D D LINE KI 50', M.C. UNIT SUF /8" AP	ISCONNEC T. INSULA MUST PR PPORTS F	CT FOR L ATE SUCT COVIDE FA RE: 10/M

 Λ

ING UNIT SCHEDULE - BASE DESIGN EVAPORATOR UNIT MAX BLOWER ELEC. MANUFACTURER& MODEL NO. CFM S.P. MOTOR CHAR MCA MANUFACTURER & MODEL NO. (1) NOTES YORK YXT36B21S | 1050 | 0.3 | - SEE FURNACE SCHEDULE - YORK XAFB36DBCN1 1-7 SSARY-DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE

UNIT. COORDINATE WITH M.C. CTION LINE.

FACTORY DESIGNED AND FACTORY OR FIELD FABRICATED REFRIGERANT PIPING.

M501 FOR MORE INFORMATION. LATION OR EQUAL. SEAL ALL JOINTS WATER TIGHT TO PREVENT CONDENSATE IN THE CEILING.

- 1. ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
- 2. THE CONTRACTOR SHALL PAY FOR ALL FEES, PERMITS, LICENSES, ETC.,
- PROPER COMPLETION OF THE WORK.
- 3. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMME
- 4. VERIFY ALL EXISTING CONDITIONS. NOTIFY ENGINEER OF ANY CONFLICTS CONTRACT DRAWINGS AND ACTUAL CONDITIONS.
- 5. EXISTING UTILITIES TO BE ABANDONED SHALL BE PROPERLY DISCONNECTED AS REQUIRED BY CODE OR LOCAL ORDINANCE.
- 6. THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. ADDIT SHALL BE FROM THE ENGINEER THROUGH WRITTEN CLARIFICATION ONLY. EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS BEFORE PROCEEDING PORTION OF ANY WORK. THE CONTRACTOR SHALL PROVIDE ALL OFFSETS TRANSITIONS REQUIRED TO MEET EXISTING CONDITIONS.
- 7. THE CONTRACTOR SHALL PERFORM WORK IN A SKILLED AND PROFESSION
- 8. ALL CONTRACTORS ARE RESPONSIBLE TO FIELD COORDINATE WORK SCHED OWNER REPRESENTATIVE.
- 9. THE CONTRACTOR SHALL WORK AND COORDINATE WITH THE OTHER TRADE
- 10. ALL EQUIPMENT SHALL BE NEW AND IN UNDAMAGED CONDITION. ANY EC DEFECTIVE SHALL BE IMMEDIATELY REMOVED FROM THE PROJECT.
- 11. PROVIDE 3 COPIES OF AN OPERATION AND MAINTENANCE MANUAL FOR AL EQUIPMENT REQUIRING SERVICE. MAJOR EQUIPMENT INCLUDES BUT IS NO COILS, FANS, AND CONTROL WIRING DIAGRAMS. EACH PIECE OF EQUIPME THE CONTRACT DATE AND THE NAME, ADDRESS AND PHONE NUMBER FO CONTRACTOR, SUBCONTRACTOR PERFORMING THE INSTALLATION, AND THE FOR SPARE PARTS. THE MANUALS SHALL CONTAIN MAINTENANCE INSTRUCT FOR THE INSTALLED EQUIPMENT. MANUALS SHALL BE BOUND IN A THRE COVER BINDER. O & M MANUALS SHALL BE SUBMITTED TO THE OWNER WALK THROUGH OF THE PROJECT.
- 12. PROVIDE 8 HOURS OF OWNER TRAINING FOR THE INSTALLED EQUIPMENT. BE HELD ONLY AFTER ALL OF THE EQUIPMENT IS INSTALLED AND PROPER VERIFIED.
- 13. CONTRACTOR SHALL SUBMIT A CERTIFIED REPORT INDICATING SYSTEM PER INCLUDING, BUT NOT LIMITED TO, VOLTAGE AND AMPERAGE MEASUREMENTS EQUIPMENT GREATER THAN 1/3 H.P. WATER BALANCE MEASUREMENTS OF AND PUMP. AIR BALANCE MEASUREMENTS OF OUTSIDE AIR DELIVERY, AIR SUPPLY, SUPPLY DIFFUSERS, EXHAUST AND RETURN GRILLES. AIR BALAN WITHIN 10% OF DESIGN CONDITIONS. THE REPORT CERTIFICATION SHALL FOLLOWS:
 - I (name) of (company) CERTIFY THAT ALL MEASUREMENTS, FIGURES AND STATEMENTS INDICATED IN THIS REPORT WERE TAKEN BY ME OR UNDER MY SUPERVISION AND ARE ACCURATE AS OF (date). DESIGN FLOWS WERE BASED UPON PLANS DATED (xx/xx/xx).

A AMP ADD ADDENDUM ADJ ADUSTABLE AFF ABOVE FINISH FLOOR AFF ABOVE FINISH FLOOR AIL ANLADS INPUT AIL ANLAG OLPUT AIL ALTERNATE AO ANLAG OLPUT AIL ALTERNATE AO ANLAG OLPUT ANLAG OLPUT MAX APPRXIMATE MAXIMUM APPRXIMATE MAX AO ANLOG OLPUT ANLOG OLPUT MAX ARCH ARCHITECT, ARCHITECTURAL MC MECH MECHAMICAL CONTRACTOR BDD BACK DRAFT DAMPER BLOG BULDING BTUH BRITSH THERMAL UNIT PER HOUR MECH MECHAMICAL CONTRACTOR CO CENTER CON CONDENSATE DM DIMUBANISON REQUIRED PLUMBING CONTRACTOR PLIS POUNDS PER SQUARE INCH DI DOIGTAL INPUT DM DOWN
I/O INPUT/OUTPUT

GENERAL MECHANICAL NOTES

NECESSARY FOR	14.	DUCT MATERIAL SHALL BE GALVANIZED OR ALUMINUM CONSTRUCTION IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARD 2005 FOR THE PRESSURE AND SEAL CLASS LISTED IN DUCTWORK/INSULATION SCHEDULE.
ENDATIONS.	15.	DUCT SIZES LISTED ON PLANS ARE THE REQUIRED CLEAR INTERIOR DIMENSIONS.
BETWEEN	16.	SUPPLY AND RETURN BRANCH DUCTS MAY BE INSULATED FLEX DUCT IF THE RUN IS LESS THAN 5 FEET IN LENGTH. ANY LENGTHS OVER 5 FEET SHALL BE RIGID DUCTWORK, DUCT SHALL BE THE SAME SIZE AS THE LISTED DIFFUSER THROAT UNLESS NOTED OTHERWISE.
ITIONAL DATA VERIFY ALL G WITH ANY AND	17.	PROVIDE VOLUME CONTROL DAMPERS WHERE INDICATED AND AT ALL TAKEOFFS, BOTH SUPPLY AND RETURN SYSTEMS, AND MAJOR DUCT RUNS. DAMPERS SHALL BE FACTORY-FABRICATED WITH ZINC-PLATED, DIE-CAST CONTROL HARDWARE. CONTROL HARDWARE SHALL INCLUDE HEAVY GAUGE DIAL AND HANDLE WITH ELEVATED PLATFORM FOR INSULATED DUCT MOUNTING.
NAL MANNER. EDULE WITH	18.	PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS CONFORMING TO SMACNA DUCT CONSTRUCTION STANDARD 2005 FIG. $4-2$ TYPE RE-3 WITH STANDARD RADIUS. WHERE SPACE PERMITS, PROVIDE RADIUSED ELBOWS IN ACCORDANCE WITH FIGURES $4-2$, TYPE RE-1.
ES. QUIPMENT FOUND		ALL RECTANGULAR MAIN TO RECTANGULAR BRANCH CONNECTIONS, BOTH CONVERGING AND DIVERGING CONFIGURATIONS, SHALL HAVE A 45 DEG. ENTRY TAP CONSTRUCTED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARD 2005 FIG. 4–6.
ALL MAJOR		DIFFUSER PATTERN 4-WAY UNLESS OTHERWISE INDICATED. PROVIDE FIBERGLASS DUCT INSULATION WITH VAPOR BARRIER AS SCHEDULED UNLESS NOTED OTHERWISE.
NOT LIMITED TO INT SHALL STATE INT THE PRIME	21.	MECHANICAL CONTRACTOR TO REPAIR ANY DAMAGE DONE TO THE FIRE PROOFING WHILE INSTALLING THE MECHANICAL TRADES. SEAL ALL PENETRATIONS THROUGH RATED STRUCTURES WITH UL LISTED FIRE SEAL DESIGNED FOR THE SPECIFIED APPLICATION.
EE RING HARD PRIOR TO FINAL	22.	THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
. TRAINING SHALL ER OPERATION IS	23.	THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OR AS OTHERWISE REQUIRED IN THE SPECIFICATIONS.
DEODMANOE	24.	MECHANICAL CONTRACTOR TO INCLUDE THE TEST AND BALANCE, AND ANY PERMIT FEES IN THEIR BID.
RFORMANCE TS OF ALL F EACH COIL R HANDLING UNIT NCE SHALL BE	25.	MECHANICAL CONTRACTOR SHALL VERIFY ALL ROOFTOP EQUIPMENT WEIGHTS, SIZES, LOCATIONS AND OPENINGS REQUIRED AND SHALL COORDINATE ANY CHANGES WITH THE ARCHITECT.
. BE AS	26.	UPON PROJECT COMPLETION, RECORD (AS-BUILT) DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE BUILDING OWNER. ALL CHANGES MADE TO EQUIPMENT, DUCTWORK, AND GENERAL DESIGN SHALL BE NOTED ON THE DRAWINGS. PROVIDE IN PDF

FORMAT OR PRINTED SET AT THE OWNER'S REQUEST.

MECHANICAL HVAC LEGEND ${ } \\$ EXHAUST AIR DUCT (DOWN) EXHAUST AIR DUCT (UP) \leq RETURN AIR DUCT (UP) RETURN AIR DUCT (DOWN) PERATURE OUTSIDE OR SUPPLY AIR OUTSIDE OR SUPPLY AIR \ge \ge EMPERATURE DUCT (UP) DUCT (DOWN) DUCT SIZE NEW DUCTWORK HOUR FRACTOR AMPS FLEX DUCT ++++++++++ EXISTING DUCTWORK \square SUPPLY AIR CEILING DEMOLITION LINETYPE \leq DIFFUSER \square \square RETURN AIR GRILLE EXHAUST AIR GRILLE $\left(\begin{array}{c} -\\ -\end{array}\right)$ SCHEDULED EQUIPMENT DIFFUSER, GRILLE, AND CALL-OU CFM REGISTER CALL-OUTS TAG PIPE PENETRATION MANUAL BALANCING RACTOR THROUGH FIRE RATED DAMPER WALL JARE INCH FIRE DAMPER SMOKE DAMPER FIRE/SMOKE DAMPER MOTORIZED DAMPER ISION MINUTE \bigcirc (H)HUMIDISTAT THERMOSTAT S \odot CARBON DIOXIDE SENSOR REMOTE SENSOR DUCT SMOKE DETECTOR $\langle S \rangle$

MECHANICAL SHEET INDEX

MECHANICAL LEGENDS AND NOTES

MECHANICAL DEMOLITION PLAN

MECHANICAL DUCTWORK PLAN

MECHANICAL ROOF PLAN

MECHANICAL DETAILS

M000

MD101

M101

M201

M501



Norman, OK 73072 Salas O'Brien Registration: CA# 7058 Expiration Date : 6/30/2025 Salas O'Brien Project Number: 2023-04386-00



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KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN MECHANICAL / ELECTRICAL



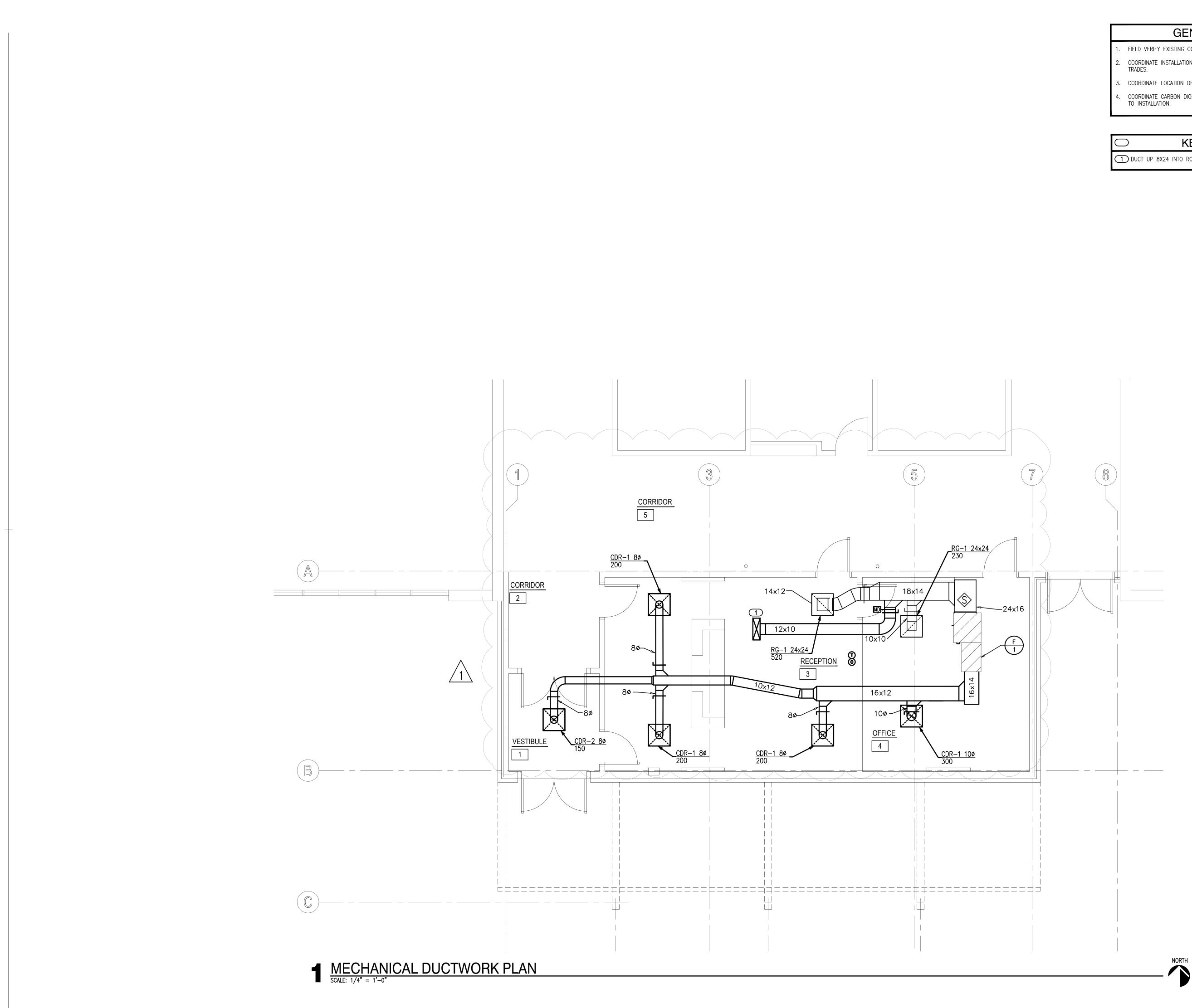
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DMG	
checked by	
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date	
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OFFICE ADDITION FAIRVIEW ELEMENTARY SCHOOL

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GENERAL NOTES

- . FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- COORDINATE INSTALLATION OF EQUIPMENT AND DUCTWORK WITH ALL TRADES.
- . COORDINATE LOCATION OF THERMOSTATS WITH E.C. ROUGH-IN BY E.C.
- . COORDINATE CARBON DIOXIDE SENSOR LOCATION WITH EARTHSMART PRIOR TO INSTALLATION.

KEYED NOTES

1 DUCT UP 8X24 INTO ROOF HOOD.



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KF drawn by DMG checked by SEPTEMBER 2023 date

1 04/02/2024 СВ 03

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MOORE PUBLIC SCHOOLS BOARD OF EDUCATION MOORE, OKLAHOMA



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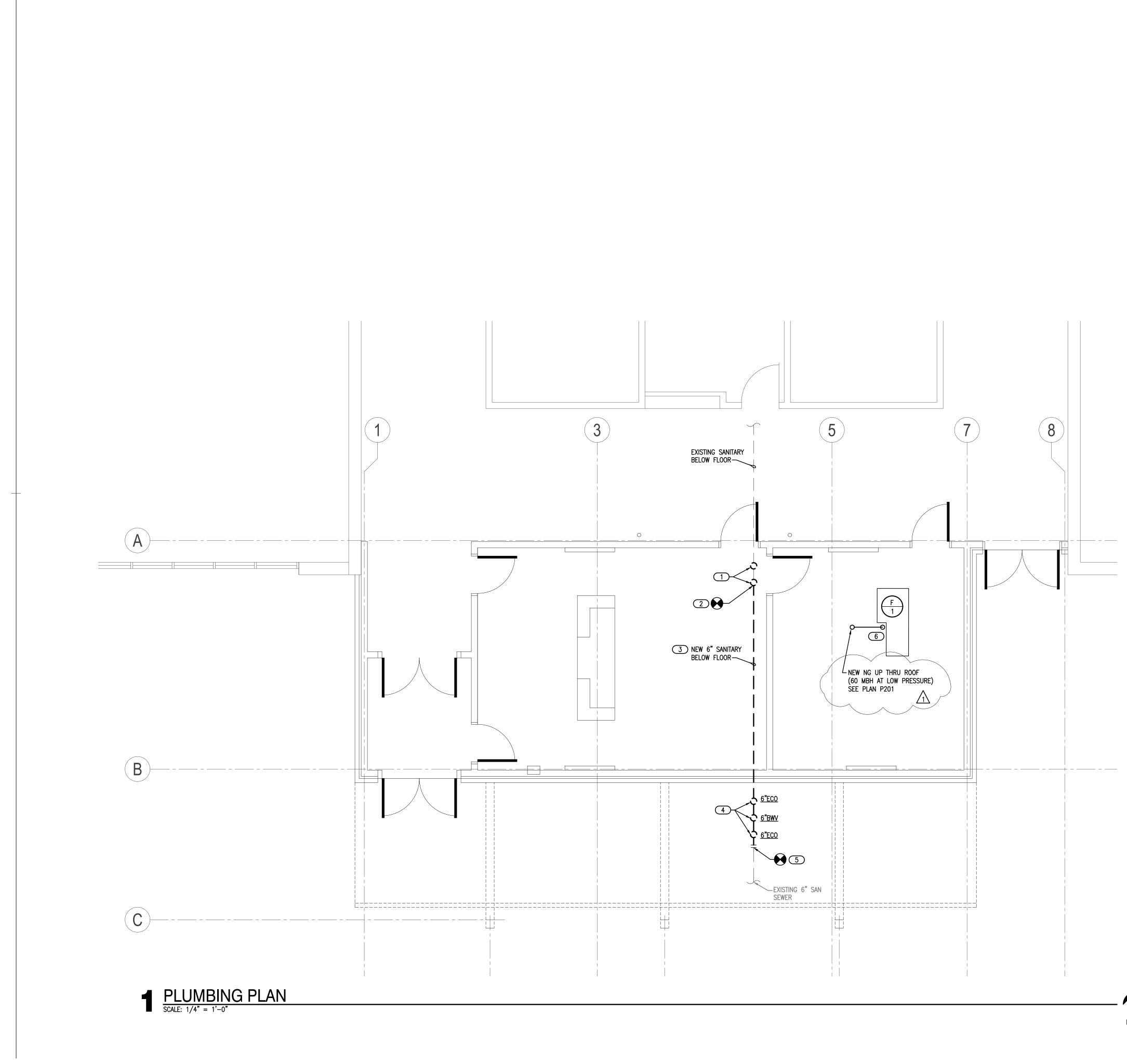
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Salas O'Brien 2600 Van Buren St., Suite 2635 Norman, OK 73072 Salas O'Brien Registration: CA# 7058 Expiration Date : 6/30/2025

Salas O'Brien Project Number: 2023-04386-00



NORTH

GENERAL NOTES

- . COORDINATE WORK WITH ALL TRADES ON SITE.
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
 COORDINATE ALL BELOW GRADE PIPE ROUTING WITH STRUCTURAL FOUNDATIONS AND REQUIRED PIPE SLEEVES THRU FOUNDATION PENETRATIONS.
- 4. FIELD VERIFY EXISTING SANITARY SEWER INVERT ELEVATIONS.
- 5. COORDINATE WITH MC FOR ROUTING FURNACE CONDENSATE DRAIN LINE TO NEAREST FLOOR SIN, MOP SINK OR SINK TAILPIECE. FIELD VERIFY LOCATION.

KEYED NOTES

- 1 MODIFY EXISTING CLEANOUT COVER HEIGHT AS REQUIRED TO BE FLUSH WITH NEW FINISHED FLOOR.
- 2 CONNECT NEW 6" SANITARY BELOW FLOOR TO EXISTING CLEANOUT
- FITTING.
 3 REMOVE EXISTING BELOW GRADE SANITARY SEWER LINE AND REPLACE
- WITH 6" SANITARY LINE RATED FOR BELOW FLOOR. PVC ASTM D2665.
- (4) INSTALL NEW EXTERIOR CLEANOUTS AND SANITARY BACKWATER VALVE WITH COVERS FLUSH WITH CONCRETE PAD. REFER TO DETAIL 1/P000.
- 5 CONNECT NEW 6" SANITARY SEWER TO EXISTING 6" SANITARY SEWER.
- 6 ROUTE NATURAL GAS (LOW PRESSURE) LINE TO FURNACE. PROVIDE BALL VALVE, DRIP LEG, AND FINAL UNIT CONNECTION. COORDINATE CONNECTION WITH MC.



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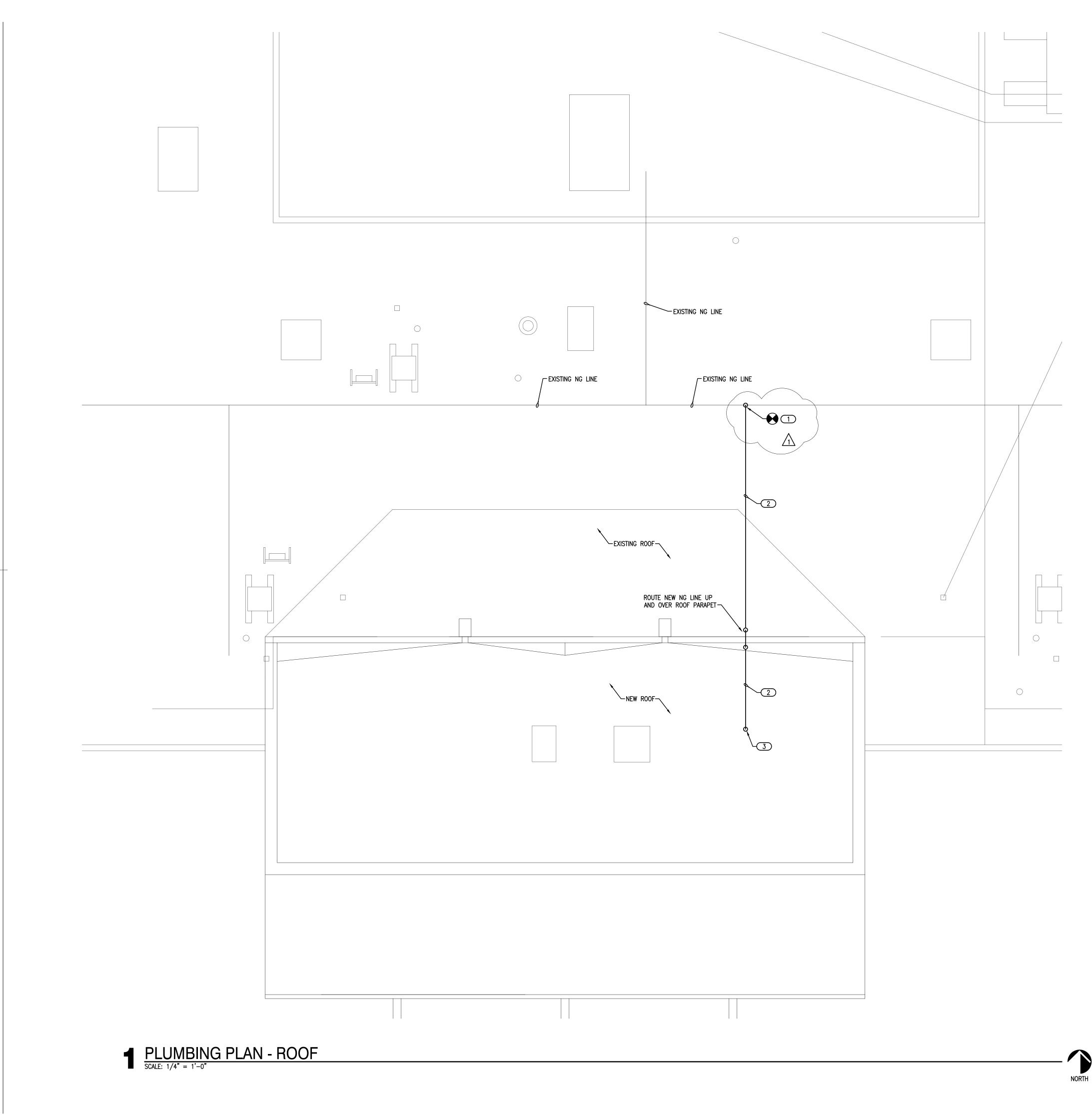
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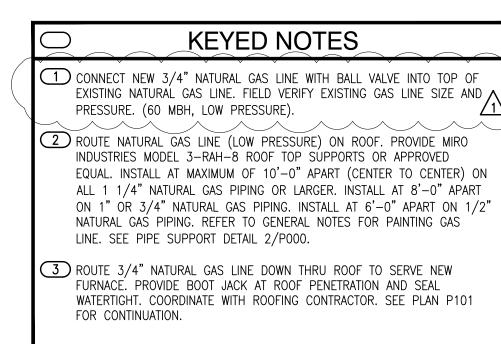


Norman, OK 73072 Salas O'Brien Registration: CA# 7058 Expiration Date : 6/30/2025 Salas O'Brien Project Number: 2023-04386-00



GENERAL NOTES

- COORDINATE WORK WITH ALL TRADES ON SITE.
- 2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- ALL ABOVE GRADE EXTERIOR NATURAL GAS PIPE SHALL BE CLEANED AND DEGREASED PRIOR TO BEING PRIMED THEN PAINTED YELLOW WITH WEATHER RESISTANT ZINC RICH PAINT.
- PIPE IDENTIFICATION SHALL BE THE WORD "NATURAL GAS" IN BLACK LETTERS AT 5 FT INTERVALS USING PLASTIC PIPE MARKERS OR STENCILED PAINTED LETTERS.
- 4. ALL GAS PIPE SHALL COMPLY WITH IFGC. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.





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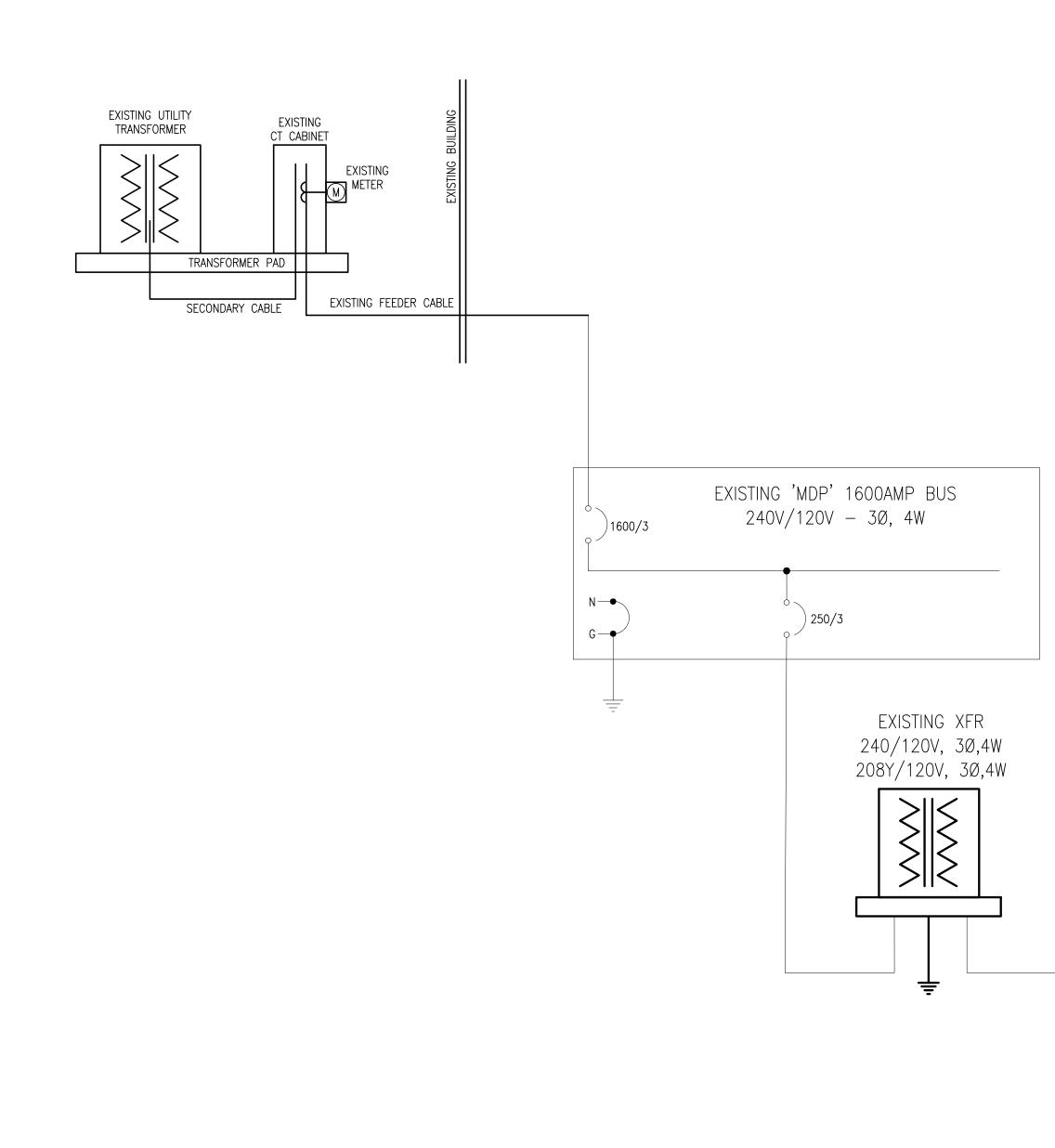
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5 Salas O'Brien.

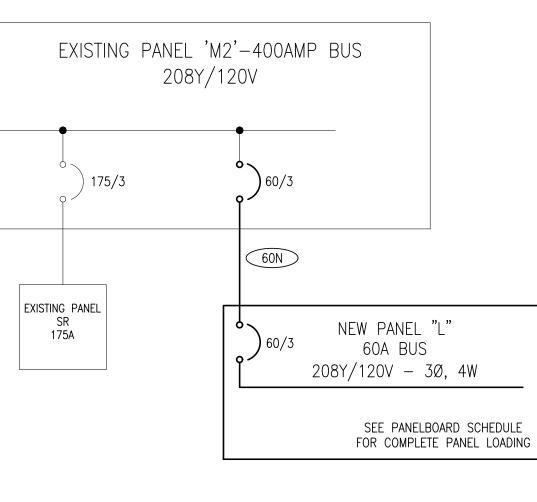
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ELECTRICAL ONE - LINE DIAGRAM NO SCALE

\wedge		_										_}	FEEDER SCHEDULE							
<u>/1</u>			Panel		FED	M CO NTING FROM E NEV	RRIDOR 5 RECESSED MDP	В	/OLTS BUS AMPS IEUTRAL	208Y/120 60 100%	V 3P 4W	AIC 6 Main B Lugs			S	AMPS	CONDUIT SIZE 4W 3/4"	CONDUIT SIZE 3W 3/4"	PHASE CONDUCTORS #12	EQUIP. GROUND CONDUCTORS #12
		C	CKT CKT # BKR	LOA	D				СК	T CKT BKR	LOAD				۱)	25	3/4" 3/4"	3/4"	#10 #10	#10 #10
		<u>#</u>		KVA			SCRIPTION				KVA	CIRCUIT DE	SCRIPTION		-))	35	1"	3/4"	#8	#10
			1 20/1 3 20/1	0.36		OM 4 RO OM 4,5∣			a 2 b 4	1 1	0.365	L, LIGHTING			2	40	1"	3/4"	#8	#10
			5 20/1	0.36	RO	OM 3 R(c 6	1 .	0	SPACE			12	45	1"	1"	#6	#10
			7 20/1	0.36		OM 3 R(a 8	1 1	0	SPACE			K	50	1"	1"	#6	#10
			9 20/1 11 20/1	0.36		OM 3 R(OM 1,3,5			c 12	20/1 20/1	0	SPACE SPACE			K	60	1 1/4"	1 1/4"	#4	#10
		1	13 20/1	0.18		ERIOR F				20/1	0	SPACE			K	70	1 1/4"	1 1/4"	#4	#8
			15 30/1	1.18	F-					20/1	0	SPACE			14	80	1 1/4"	1 1/4"	#2	#8
			17 35/2 19	3.56	CU	-1			1 1	20/1	0	SPACE SPACE			15	90	1 1/2"	1 1/4"	#2	#8
			21 20/1	0.18	RO	OF RCPT				20/1	0	SPACE			15		1 1/2"	1 1/2"	#1	#8
			23 20/1	0	SP				1 1	20/1	0	SPACE			5	(110)	2" 2"	1 1/2"	#1	#6
			25 20/1 27 20/1	0	SP.				a 26 b 28	20/1	0	SPACE SPACE			5	(125)	2"	1 1/2" 1 1/2"	#1/0 #1/0	#6 #6
			29 20/1	0	SP				c 30	20/1	0	SPACE				(175)	2"	2"	#1/0 #2/0	#6
			31 20/1	0	SP					20/1	0	SPACE				200	2"	2"	#3/0	#6
			33 20/1 35 20/1	0	SP/				b 34	20/1	0	SPACE SPACE				(225)	2 1/2"	2"	#4/0	#4
			37 20/1	0	SP					20/1	0	SPACE			2	(250)	3"	2 1/2"	250 kcmil	#4
			39 20/1	0	SP					20/1	0	SPACE			2	300	3"	3"	350 kcmil	#4
			41 20/1	0	SP	ACE			C 42	20/1	0	SPACE			2	350	3 1/2"	3"	500 kcmil	#3
							CALC KVA					DNN KVA CALO				400	(2) 2"	(2) 2"	2 SETS OF #3/0	#3
	EQUIPMENT SCHEDULE		LIGHTING LARGEST MO	DTOR	0.46 3.56		9.575 (12 9.89 (25)	25%) 2%)	REC TOT/ BAL/ PH PH	ORS EPTACLES AL LOAD ANCED 3-F ASE A ASE B ASE C	4. 3.: PHASE LOAD	24 <u>3.24</u> 9.44	(50%>	•		NEUTRAL AN 2. SOME FEED FEEDER FOR 3. CONDUITS A FOR EASE (TYPE(S) BE 4. ALL CONDU	ID 60N REFERS ER SIZES DO NO R VOLTAGE DROP RE SIZED PER N DF PULLING OR I ING INSTALLED.	TO A 60A FEEDE T MATCH BREAKE IEC TABLES FOR DOWNSIZED AS A LESS ARE SIZE	REFERS TO A 60A FI R WITH NEUTRAL. ER SIZE DUE TO UP-S THHN/THWN AND MAY LLOWED PER NEC FOR D PER 60 DEGREE LU PER NEC.	SIZING OF THE BE UPSIZED CONDUIT
CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT		WIRE CAI	LLOUT		DISCONNECT	DISC PROV BY	DISC INS BY	75	E	XISTING	LOAD	ANALYSIS	
CU-1	CONDENSING UNIT	208/120V 2P 3W		3.56	21.4	35	L-17,19		2#10,#10N	,#10G	NON-	FUSED	MC	EC	-12	EXISTING PANEL 'M	IDP' LOAD ANALYSIS:			
F-1	GAS FURNACE	120V 1P 2W	1/2 HP	1.18	12.25	30	L-15	3/4"C,1	#12,#12N	"#12G	NON-	FUSED	мс	EC	74	PEAK LOAD ASK R	EPORTED BY UTILITY:	529.4A/PHASE (220)	KVA)	
~~~									~	~~~					3	+DESIGN LOAD =	NEC 220.87) = 661 ~695.5A/PHASE(289. .1KVA) MAX ON THE	1KVA)		
																	GEN		OTES	
																DESIGN, TO PERFO LOAD IN REPORTED	EC SHALL PERFO ORMING ANY WOF ACCORDANCE WIT O TO THE ENGINE	RM A 30 DAY LC RK IN ORDER TO TH NEC 220.87 ( EER PRIOR TO B		ANEL PRIOR ING PEAK IALL BE
																			VAILABLE DATA DURING CURRENT WITH UTILITY	



 FAULT CURRENT, ARC FLASH, AND COORDINATION STUDY SHALL BE PERFORMED BY A THIRD PARTY ONCE EXACT PANEL PLACEMENT AND DISTANCES ARE DETERMINED. REFER TO SPECIFICATIONS SECTION 26 0573 FOR MORE INFORMATION.

5. PROVIDE A MINIMUM OF 10 SPARE 1P20A BREAKERS FOR EACH 120V SUB-PANEL.



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KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN MECHANICAL / ELECTRICAL



GT drawn by TVO checked by

SEPTEMBER 2023

date

04/02/2024 CB 03

MOORE PUBLIC SCHOOLS BOARD OF EDUCATION MOORE, OKLAHOMA



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