

Construction Bulletin # 3

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

April 2, 2024

Requested by: Owner
 Contractor:
 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.
- 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

GENERAL NOTES

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

KEYED NOTES

- ① DUCT UP 8X24 INTO ROOF HOOD.

AGP
the Abla Griffin
Partnership L.L.C.

201 N. BROADWAY
SUITE 210
MOORE, OK. 73160
405.735.3477
AGP@theAGP.net
www.theAGP.net

KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL



KF
drawn by
DMG
checked by
SEPTEMBER 2023
date
revisions
① 04/02/2024 CB 03

MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA

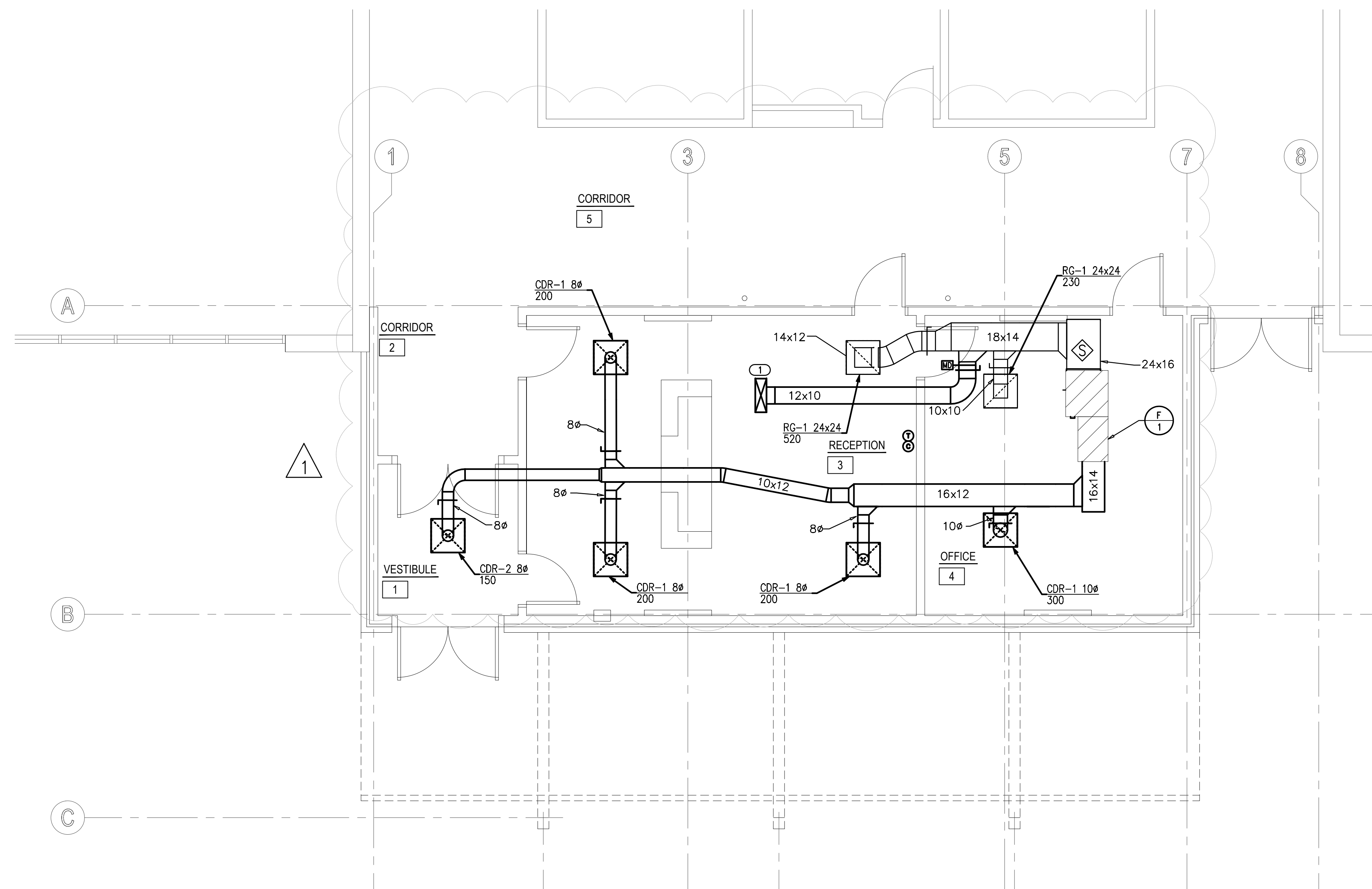


OFFICE ADDITION
FAIRVIEW
ELEMENTARY SCHOOL

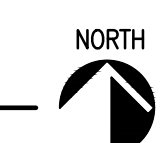
sheet no:

M101

OWNERSHIP USE OF DOCUMENTS:
AGP EXPRESSLY RESERVES ITS
COPYRIGHT AND OTHER PROPERTY
RIGHTS OF ALL PLANS AND DRAWINGS
DESIGNED AND/OR PRODUCED. PLANS
AND DRAWINGS ARE NOT TO BE
REPRODUCED IN ANY FORM OR MANNER
WITHOUT THE EXPRESSED WRITTEN
CONSENT OF AGP.



1 MECHANICAL DUCTWORK PLAN
SCALE: 1/4" = 1'-0"



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

GENERAL NOTES	
1.	COORDINATE WORK WITH ALL TRADES ON SITE.
2.	FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
3.	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.

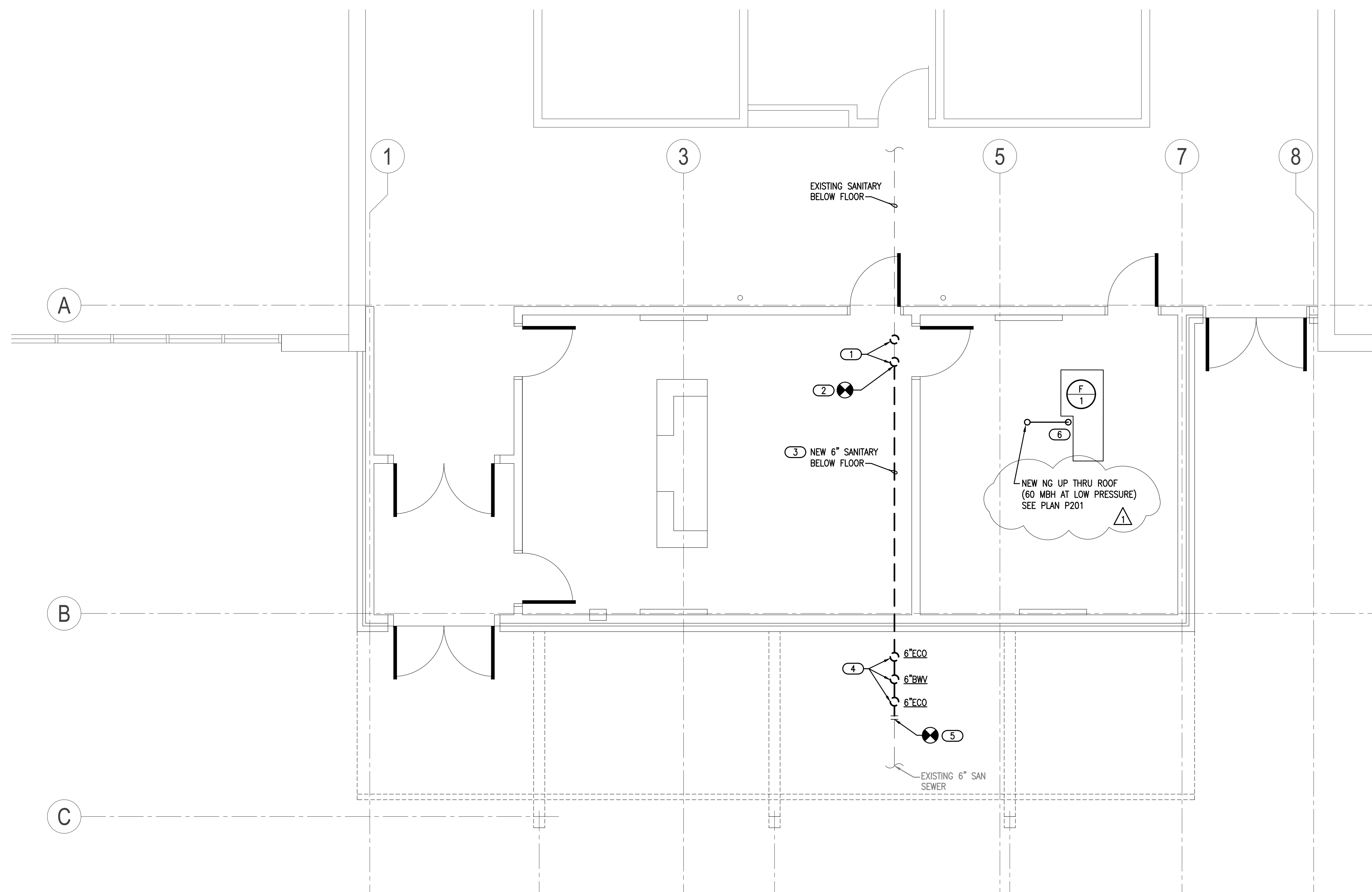
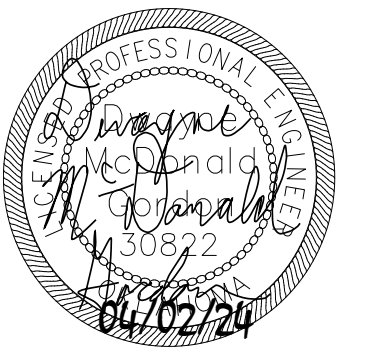
KEYED NOTES	
①	MODIFY EXISTING CLEANOUT COVER HEIGHT AS REQUIRED TO BE FLUSH WITH NEW FINISHED FLOOR.
②	CONNECT NEW 6" SANITARY BELOW FLOOR TO EXISTING CLEANOUT FITTING.
③	REMOVE EXISTING BELOW GRADE SANITARY SEWER LINE AND REPLACE WITH 6" SANITARY LINE RATED FOR BELOW FLOOR. PVC ASTM D2665.
④	INSTALL 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.

KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN

MECHANICAL / ELECTRICAL



KC

drawn by

KP

checked by

SEPTEMBER 2023

date

revisions

MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA



OFFICE ADDITION
FAIRVIEW
ELEMENTARY SCHOOL

sheet no:

P101

1 PLUMBING PLAN

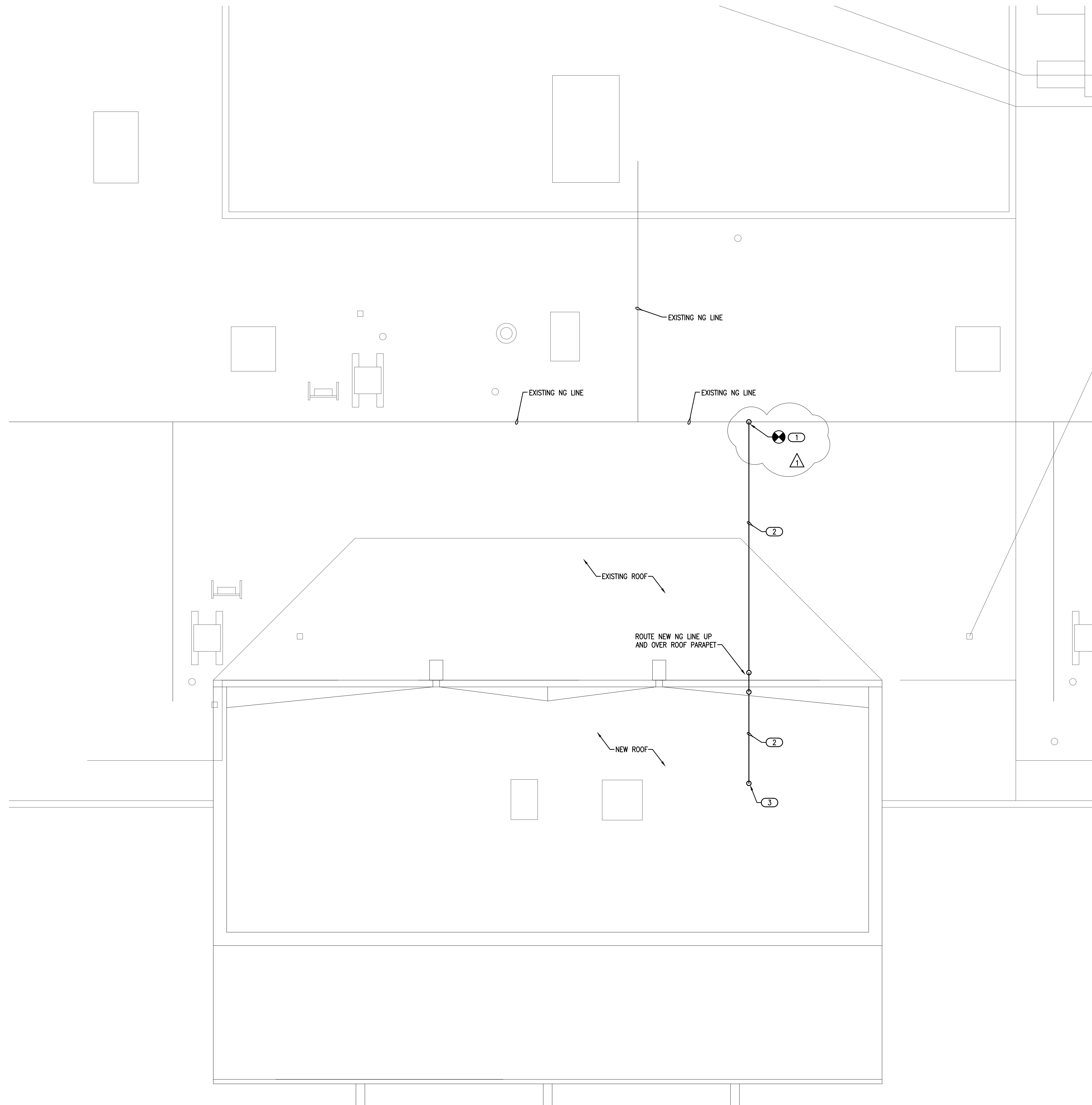
SCALE: 1/4" = 1'-0"



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

OWNERSHIP USE OF DOCUMENTS:

AGP EXPRESSLY RESERVES ITS COPYRIGHT AND OTHER PROPERTY RIGHTS OF ALL PLANS AND DRAWINGS DESIGNED AND/OR PRODUCED. PLANS AND DRAWINGS ARE NOT TO BE REPRODUCED IN ANY FORM OR MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF AGP.



- GENERAL NOTES**
- COORDINATE WORK WITH ALL TRADES ON SITE.
 - 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.
 - ALL GAS PIPE SHALL COMPLY WITH IFGC. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.

- KEYED NOTES**
- CONNECT NEW 3/4" NATURAL GAS LINE WITH BALL VALVE INTO TOP OF EXISTING NATURAL GAS LINE. FIELD VERIFY EXISTING GAS LINE SIZE AND PRESSURE. (60 MBH, LOW PRESSURE).
 - ROUTE NATURAL GAS LINE (LOW PRESSURE) ON ROOF. PROVIDE MIRO INDUSTRIES MODEL 3-RAH-8 ROOF TOP SUPPORTS OR APPROVED EQUAL. INSTALL AT MAXIMUM OF 10'-0" APART (CENTER TO CENTER) ON ALL 1 1/4" NATURAL GAS PIPING OR LARGER. INSTALL AT 8'-0" APART ON 1" OR 3/4" NATURAL GAS PIPING. INSTALL AT 6'-0" APART ON 1/2" NATURAL GAS PIPING. REFER TO GENERAL NOTES FOR PAINTING GAS LINE. SEE PIPE SUPPORT DETAIL 2/P000.
 - ROUTE 3/4" NATURAL GAS LINE DOWN THRU ROOF TO SERVE NEW FURNACE. PROVIDE BOOT JACK AT ROOF PENETRATION AND SEAL WATERTIGHT. COORDINATE WITH ROOFING CONTRACTOR. SEE PLAN P101 FOR CONTINUATION.

AGP
the Abla Griffin
Partnership L.L.C.

201 N. BROADWAY
SUITE 210
MOORE, OK. 73160
405.735.3477
AGP@theAGP.net
www.theAGP.net

KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL



KC
drawn by

KP
checked by

SEPTEMBER 2023
date

revisions

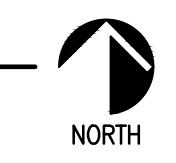
MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA



OFFICE ADDITION
FAIRVIEW
ELEMENTARY SCHOOL

sheet no:
P201

1 PLUMBING PLAN - ROOF
SCALE: 1/4" = 1'-0"



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

OWNERSHIP USE OF DOCUMENTS:
AGP EXPRESSLY RESERVES ITS COPYRIGHT AND OTHER PROPERTY RIGHTS OF ALL PLANS AND DRAWINGS DESIGNED AND/OR PRODUCED. PLANS AND DRAWINGS ARE NOT TO BE REPRODUCED IN ANY FORM OR MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF AGP.



GT
drawn by
TVO
checked by
SEPTEMBER 2023
date
04/02/2024 CB 03
TVO

MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA



OFFICE ADDITION
FAIRVIEW
ELEMENTARY SCHOOL

sheet no:

E401

OWNERSHIP USE OF DOCUMENTS:
AGP EXPRESSLY RESERVES ITS COPYRIGHT AND OTHER PROPERTY RIGHTS OF ALL PLANS AND DRAWINGS DESIGNED AND/OR PRODUCED. PLANS AND DRAWINGS ARE NOT TO BE REPRODUCED IN ANY FORM OR MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF AGP.

FEEDER SCHEDULE

AMPS	CONDUIT SIZE 4W	CONDUIT SIZE 3W	PHASE CONDUCTORS	EQUIP. GROUND CONDUCTORS
20	3/4"	3/4"	#12	#12
25	3/4"	3/4"	#10	#10
30	3/4"	3/4"	#10	#10
35	1"	3/4"	#8	#10
40	1"	3/4"	#8	#10
45	1"	1"	#6	#10
50	1"	1"	#6	#10
60	1 1/4"	1 1/4"	#4	#10
70	1 1/4"	1 1/4"	#4	#8
80	1 1/4"	1 1/4"	#2	#8
90	1 1/2"	1 1/4"	#2	#8
100	1 1/2"	1 1/2"	#1	#8
110	2"	1 1/2"	#1	#6
125	2"	1 1/2"	#1/0	#6
150	2"	1 1/2"	#1/0	#6
175	2"	2"	#2/0	#6
200	2"	2"	#3/0	#6
225	2 1/2"	2"	#4/0	#4
250	3"	2 1/2"	250 kcmil	#4
300	3"	3"	350 kcmil	#4
350	3 1/2"	3"	500 kcmil	#3
400	(2) 2"	(2) 2"	2 SETS OF #3/0	#3

NOTES:

- FEEDER SIZES ARE ON THE PLAN WHERE 60 REFERS TO A 60A FEEDER WITHOUT NEUTRAL AND 60N REFERS TO A 60A FEEDER WITH NEUTRAL.
- SOME FEEDER SIZES DO NOT MATCH BREAKER SIZE DUE TO UP-SIZING OF THE FEEDER FOR VOLTAGE DROP.
- CONDUITS ARE SIZED PER NEC TABLES FOR THHN/THWN AND MAY BE UPSIZED FOR EASE OF PULLING OR DOWNSIZED AS ALLOWED PER NEC FOR CONDUIT TYPE(S) BEING INSTALLED.
- ALL CONDUCTORS 100A AND LESS ARE SIZED PER 60 DEGREE LUGS, EC MAY SIZE CONDUCTORS FOR ACTUAL RATING OF LUGS PER NEC.

EXISTING LOAD ANALYSIS

EXISTING PANEL 'MDP' LOAD ANALYSIS:

PEAK LOAD ASK REPORTED BY UTILITY: 529.4A/PHASE (220KVA)
529.4A*1.25 (PER NEC 220.87) = 661.75A/PHASE (274.8KVA)
+DESIGN LOAD = ~695.5A/PHASE(289.1KVA)
-> ~695.5A (289.1KVA) MAX ON THE PANEL 'MDP' 1600A.

GENERAL NOTES

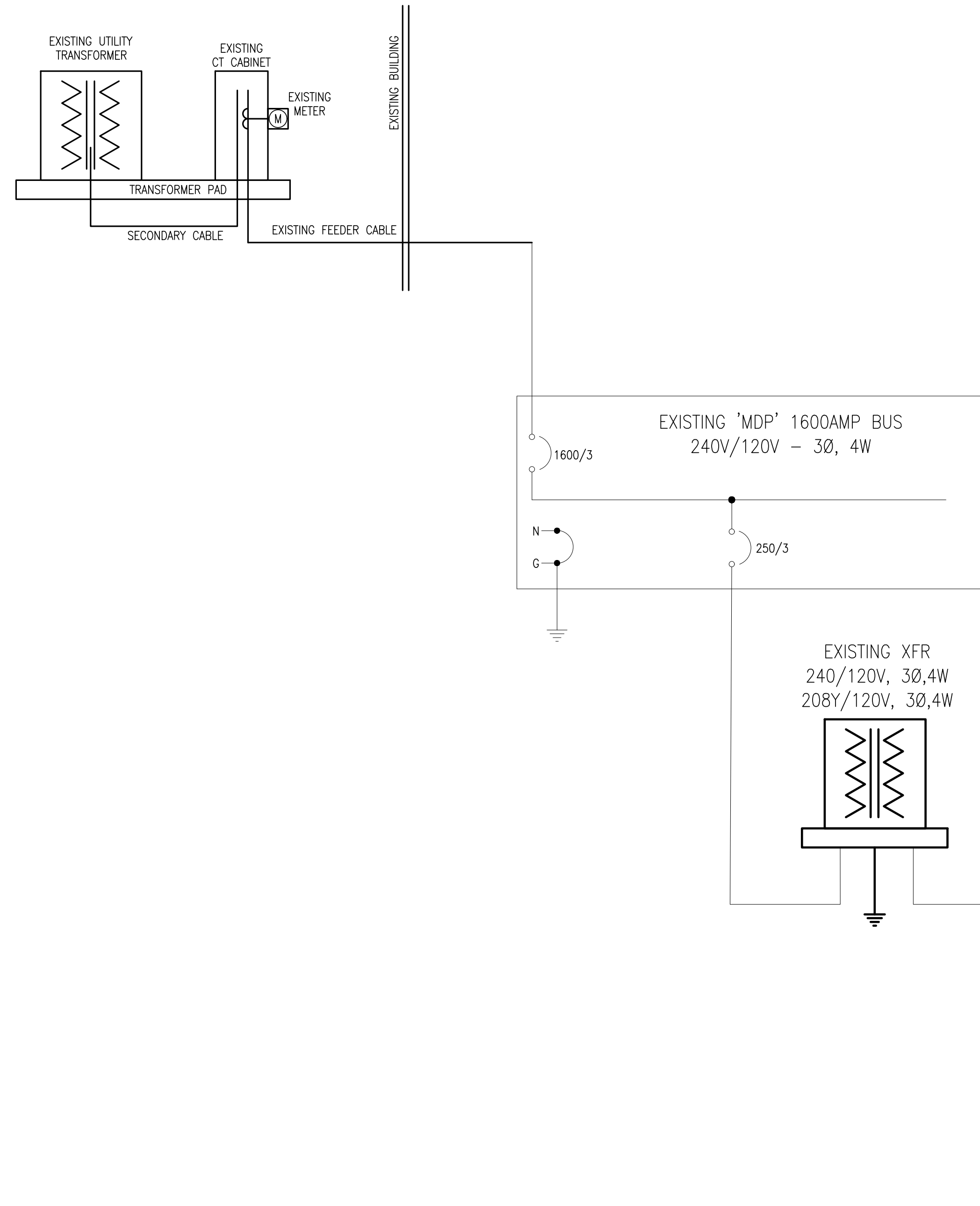
- THE EXISTING LOAD FOR PANEL 'M2' WAS UNABLE TO BE VERIFIED DURING DESIGN, EC SHALL PERFORM A 30 DAY LOAD STUDY ON THE PANEL PRIOR TO PERFORMING ANY WORK IN ORDER TO DETERMINE THE EXISTING PEAK LOAD IN ACCORDANCE WITH NEC 220.87 (1). FINAL RESULTS SHALL BE REPORTED TO THE ENGINEER PRIOR TO BEGINNING WORK.
- AIC RATINGS ARE ESTIMATED BASED ON AVAILABLE DATA DURING DESIGN. CONTRACTOR TO VERIFY AVAILABLE FAULT 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.
- PROVIDE A MINIMUM OF 10 SPARE 1P20A BREAKERS FOR EACH 120V SUB-PANEL.

Panel		ROOM	CORRIDOR 5	VOLTS	208Y/120V 3P 4W	AIC	65,000
MOUNTING		RECESSED		BUS AMPS	60	MAIN BKR	60
FED FROM		MDP		NEUTRAL	100%	LUGS	STANDARD
NOTE	NEW						
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.36	ROOM 4 RCPT	a 2	20/1	0.365	L LIGHTING
3	20/1	0.72	ROOM 4,5 RCPT	b 4	20/1	0.095	LIGHTING
5	20/1	0.36	ROOM 3 RCPT	c 6	20/1	0	SPACE
7	20/1	0.36	ROOM 3 RCPT	d 8	20/1	0	SPACE
9	20/1	0.36	ROOM 3 RCPT	e 10	20/1	0	SPACE
11	20/1	0.72	ROOM 1,3,5 RCPT	f 12	20/1	0	SPACE
13	20/1	0.18	EXTERIOR RCPT	g 14	20/1	0	SPACE
15	30/1	1.18	F-1	h 16	20/1	0	SPACE
17	35/2	3.56	CU-1	i 18	20/1	0	SPACE
19	1			j 20	20/1	0	SPACE
21	20/1	0.18	ROOF RCPT	k 22	20/1	0	SPACE
23	20/1	0	SPACE	l 24	20/1	0	SPACE
25	20/1	0	SPACE	m 26	20/1	0	SPACE
27	20/1	0	SPACE	n 28	20/1	0	SPACE
29	20/1	0	SPACE	o 30	20/1	0	SPACE
31	20/1	0	SPACE	p 32	20/1	0	SPACE
33	20/1	0	SPACE	q 34	20/1	0	SPACE
35	20/1	0	SPACE	r 36	20/1	0	SPACE
37	20/1	0	SPACE	s 38	20/1	0	SPACE
39	20/1	0	SPACE	t 40	20/1	0	SPACE
41	20/1	0	SPACE	u 42	20/1	0	SPACE

	CONN KVA	CALC KVA		CONN KVA	CALC KVA
LIGHTING	0.46	0.575	(125%)	MOTORS	4.74
LARGEST MOTOR	3.56	0.89	(25%)	RECEPTACLES	3.24
				TOTAL LOAD	9.44
				BALANCED 3-PHASE LOAD	26.2 A
				PHASE A	110%
				PHASE B	86.5%
				PHASE C	104%

MECHANICAL EQUIPMENT SCHEDULE

CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
CU-1	CONDENSING UNIT	208/120V 2P 3W		3.56	21.4	35	L-17,19	3/4"C,2#10,#10N,#10G	NON-FUSED	MC	EC
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	MC	EC



1 ELECTRICAL ONE - LINE DIAGRAM

NO SCALE



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