

**1 EXISTING PARTIAL ELECTRICAL ONE-LINE DIAGRAM**  
Scale: N.T.S.

FEEDER SCHEDULE				
AMPS	CONDUIT SIZE 4W	CONDUIT SIZE 3W	PHASE CONDUCTORS	EQUIPMENT GROUND CONDUCTOR
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"	#3	#8
90	1 1/2"	1 1/4"	#2	#8
100	1 1/2"	1 1/4"	#2	#8
110	2"	1 1/2"	#1	#6
125	2"	1 1/2"	#1	#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
450	(2) 2 1/2"	(2) 2"	2 SETS OF #4/0	#2
500	(2) 2 1/2"	(2) 2 1/2"	2 SETS OF 250 kcmil	#2
600	(2) 3"	(2) 3"	2 SETS OF 350 kcmil	#1
700	(2) 3 1/2"	(2) 3"	2 SETS OF 500 kcmil	#1/0
800	(3) 3"	(3) 2 1/2"	3 SETS OF 300 kcmil	#1/0
900	(3) 3 1/2"	(3) 3"	3 SETS OF 400 kcmil	#2/0
1000	(3) 3 1/2"	(3) 3"	3 SETS OF 500 kcmil	#2/0
1200	(4) 3"	(4) 3"	4 SETS OF 350 kcmil	#3/0
1600	(5) 3 1/2"	(5) 3"	5 SETS OF 500 kcmil	#4/0
1800	(6) 3 1/2"	(6) 3"	6 SETS OF 400 kcmil	250 kcmil
2000	(6) 3 1/2"	(6) 3"	6 SETS OF 500 kcmil	250 kcmil
2500	(7) 3 1/2"	(7) 3"	7 SETS OF 500 kcmil	350 kcmil

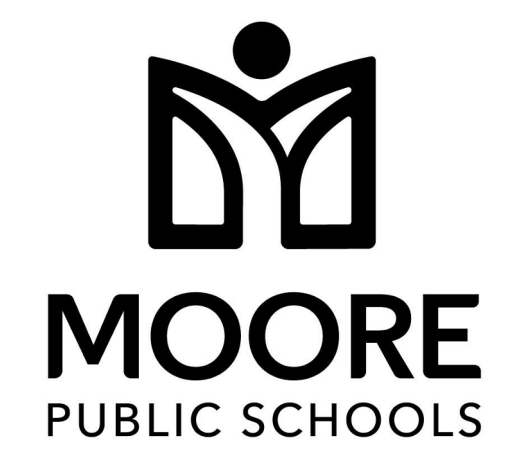
NOTES:  
 1. FEEDER SIZES ARE ON THE PLAN WHERE 60 REFERS TO A 60A FEEDER WITHOUT NEUTRAL AND 60N REFERS TO A 60A FEEDER WITH NEUTRAL.  
 2. SOME FEEDER SIZES DO NOT MATCH BREAKER SIZE DUE TO UP-SIZING OF THE FEEDER FOR VOLTAGE DROP.  
 3. CONDUITS ARE SIZED PER NEC TABLES FOR THIN/THWN AND MAY BE UPSIZED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

KEYED NOTES	
1	PROVIDE REPLACEMENT 300A 3P BREAKER AS REQUIRED TO FEED THE NEW UNIT. EXISTING 400A 3P BREAKER AND WIRE MAY BE REUSED WHERE IN SERVICEABLE CONDITION AND ADDITIONAL OVERCURRENT PROTECTION SIZED TO 300A IS PROVIDED AT THE UNIT.
2	PROVIDE REPLACEMENT 350A 3P BREAKER AS REQUIRED TO FEED THE NEW UNIT. EXISTING 400A 3P BREAKER AND WIRE MAY BE REUSED WHERE IN SERVICEABLE CONDITION AND ADDITIONAL OVERCURRENT PROTECTION SIZED TO 350A IS PROVIDED AT THE UNIT.



DWG  
drawn by  
TVO  
checked by  
MARCH 2026  
date

REVISIONS		
Δ	DESCRIPTION	DATE



**SOUTHMOORE HIGH SCHOOL HVAC REPLACEMENT**

sheet no:

**E401**

**Salas O'Brien**  
Salas O'Brien, Inc. - Oklahoma City  
2900 S. Telephone Road, Suite 120  
Moore, OK 73160  
CA# 9820 Expiration Date: 06/30/2027  
Salas O'Brien Project Number: 2550-02191-00

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