

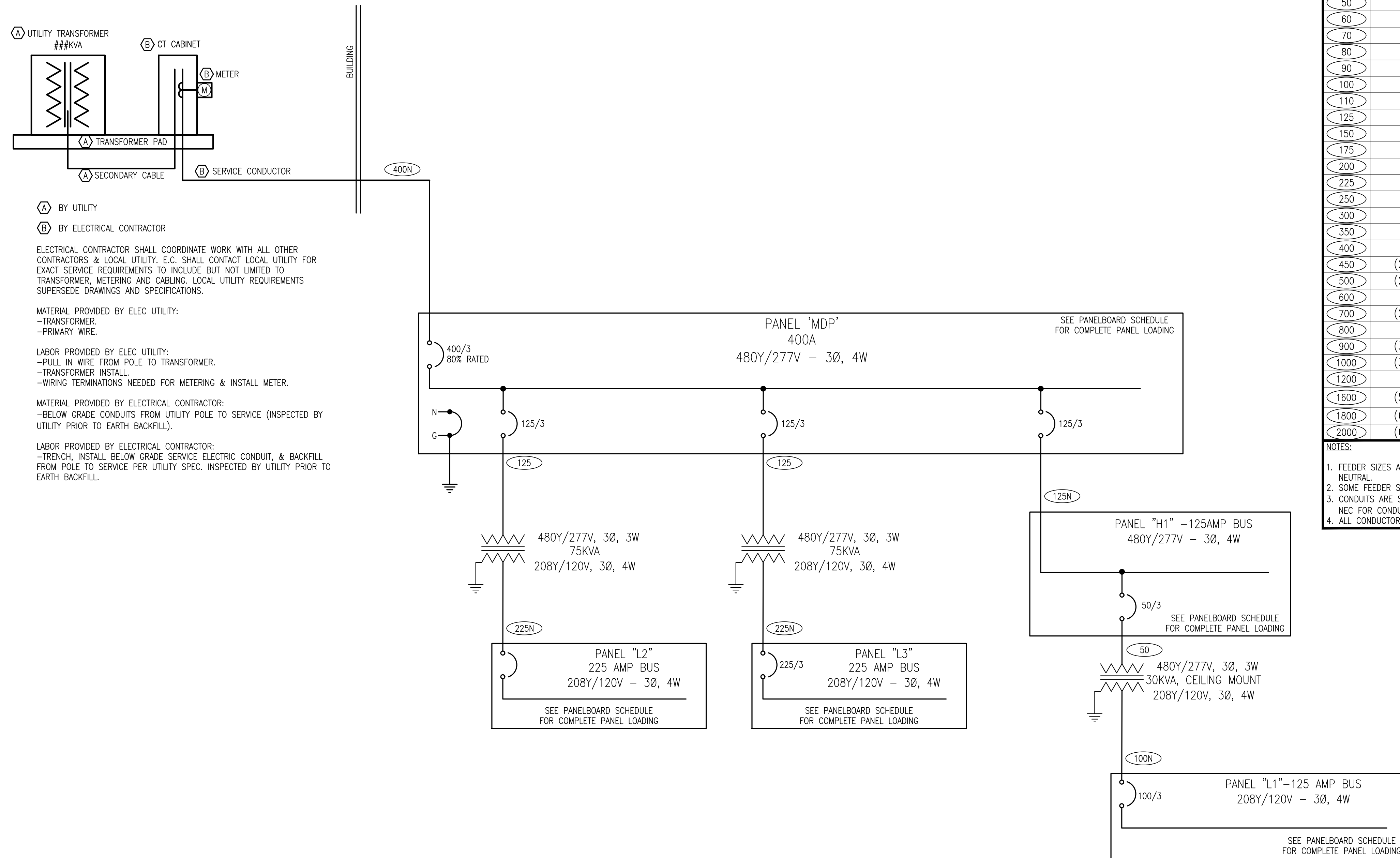
GENERAL NOTES

- 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.

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"	#1	#8
110	2"	1 1/2"	#2	#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

- 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.



(A) BY UTILITY
 (B) BY ELECTRICAL CONTRACTOR

ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY. E.C. SHALL CONTACT LOCAL UTILITY FOR EXACT SERVICE REQUIREMENTS TO INCLUDE BUT NOT LIMITED TO TRANSFORMER, METERING AND CABLING. LOCAL UTILITY REQUIREMENTS SUPERSEDE DRAWINGS AND SPECIFICATIONS.

MATERIAL PROVIDED BY ELEC UTILITY:
 -TRANSFORMER.
 -PRIMARY WIRE.

LABOR PROVIDED BY ELEC UTILITY:
 -PULL IN WIRE FROM POLE TO TRANSFORMER.
 -TRANSFORMER INSTALL.
 -WIRING TERMINATIONS NEEDED FOR METERING & INSTALL METER.

MATERIAL PROVIDED BY ELECTRICAL CONTRACTOR:
 -BELOW GRADE CONDUITS FROM UTILITY POLE TO SERVICE (INSPECTED BY UTILITY PRIOR TO EARTH BACKFILL).

LABOR PROVIDED BY ELECTRICAL CONTRACTOR:
 -TRENCH, INSTALL BELOW GRADE SERVICE, ELECTRIC CONDUIT, & BACKFILL FROM POLE TO SERVICE PER UTILITY SPEC. INSPECTED BY UTILITY PRIOR TO EARTH BACKFILL.

1 ELECTRICAL ONE-LINE DIAGRAM
 NO SCALE



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KFC ENGINEERING
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SALAS O'BRIEN
 MECHANICAL / ELECTRICAL



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TVO
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JUNE 2022
 date

revisions

MOORE PUBLIC SCHOOLS
 BOARD OF EDUCATION
 MOORE, OKLAHOMA



CLASSROOM ADDITION
 SOUTHRIDGE
 JUNIOR HIGH SCHOOL

sheet no:
E401

Salas O'Brien

2600 Van Buren St., Suite 2635
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 Salas O'Brien Registration: CA# 7058
 Expiration Date: 6/30/2025
 Salas O'Brien Project Number: 2023-02792-00

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