

FEEDER SCHEDULE

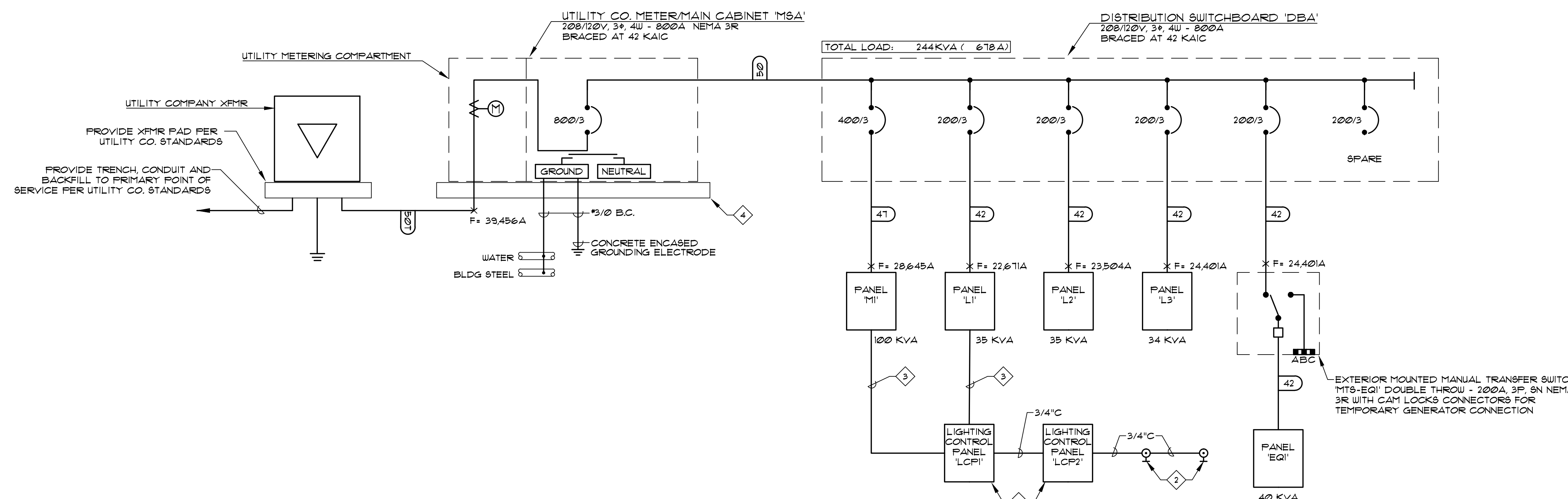
FEEDER	AMPERE	CONDUIT AND WIRE (COPPER) THWN, 3φ, 3W.	GROUND	FEEDER	AMPERE	CONDUIT AND WIRE (COPPER) THWN, 3φ, 4W.	GROUND
1	20	1/2" - 3 - #12	#12	31	20	1/2" - 4 - #12	#12
2	30	1/2" - 3 - #10	#10	32	30	3/4" - 4 - #10	#10
3	40	3/4" - 3 - #8	#8	33	40	1" - 4 - #8	#8
4	50	1" - 3 - #6	#6	34	50	1 1/4" - 4 - #6	#6
5	60	1" - 3 - #6	#6	35	60	1 1/4" - 4 - #6	#6
6	70	1 1/4" - 3 - #4	#8	36	70	1 1/4" - 4 - #4	#8
7	80	1 1/4" - 3 - #4	#8	37	80	1 1/4" - 4 - #4	#8
8	100	1 1/4" - 3 - #2	#8	38	100	1 1/2" - 4 - #2	#8
9	125	1 1/2" - 3 - #1	#6	39	125	1 1/2" - 4 - #1	#6
10	150	1 1/2" - 3 - #1/0	#6	40	150	2" - 4 - #1/0	#6
11	175	2" - 3 - #2/0	#6	41	175	2" - 4 - #2/0	#6
12	200	2" - 3 - #3/0	#6	42	200	2" - 4 - #3/0	#6
13	225	2" - 3 - #4/0	#4	43	225	2 1/2" - 4 - #4/0	#4
				43T	225	2 1/2" - 4 - #4/0	#2
14	250	3" - 3 - #250 K	#4	44	250	3" - 4 - #250 K	#4
				44T	250	3" - 4 - #250 K	#2
15	300	4" - 3 - #350 K	#4	45	300	4" - 4 - #350 K	#4
16	350	4" - 3 - #500 K	#2	46	350	4" - 4 - #500 K	#2
17	400	4" - 3 - #500 K	#2	47	400	4" - 4 - #500 K	#2
				47T	400	(2) 2" - 8 - #3/0	(2) #1/0
18	500	(2) 3" - 6 - #250 K	(2) #2	48	500	(2) 3" - 8 - #250 K	(2) #2
				48T	500	(2) 3" - 8 - #250 K	(2) #1/0
19	600	(2) 4" - 6 - #350 K	(2) #1	49	600	(2) 4" - 8 - #350 K	(2) #1
20	800	(2) 4" - 6 - #500 K	(2) #1/0	50	800	(2) 4" - 8 - #500 K	(2) #1/0
				50T	800	(3) 4" - 12 - #350 K	(3) #2/0
21	1000	(4) 4" - 12 - #250 K	(4) #2/0	51	1000	(4) 4" - 16 - #250 K	(4) #2/0
				51T	1000	(4) 4" - 16 - #250 K	(4) #2/0
22	1200	(4) 4" - 12 - #350 K	(4) #3/0	52	1200	(4) 4" - 16 - #350 K	(4) #3/0
23	1600	(5) 4" - 15 - #500 K	(5) #4/0	53	1600	(5) 4" - 20 - #500 K	(5) #4/0
				53T	1600	(5) 4" - 20 - #350 K	(5) #350 K
24	2000	(6) 4" - 18 - #500 K	(6) #250 K	54	2000	(6) 4" - 24 - #500 K	(6) #250 K
25	2500	(7) 4" - 21 - #500 K	(7) #350 K	55	2500	(7) 4" - 28 - #500 K	(7) #350 K
26	3000	(8) 4" - 24 - #500 K	(8) #400 K	56	3000	(8) 4" - 32 - #500 K	(8) #400 K
27	4000	(11) 4" - 33 - #500 K	(11) #500 K	57	4000	(11) 4" - 44 - #500 K	(11) #500 K

GENERAL NOTES:

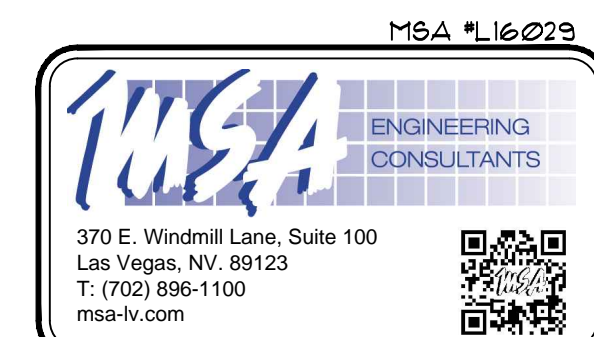
- A COORDINATION STUDY SHALL BE PROVIDED AS PART OF THE SWITCHBOARD AND PANELBOARD SUBMITTAL PACKAGE. THIS STUDY SHALL INCLUDE A SINGLE LINE DIAGRAM, PROTECTIVE DEVICE COORDINATION STUDY, AND TIME CURRENT CURVES ILLUSTRATING COORDINATION. THE STUDY SHALL BE GENERATED UTILIZING COMPUTER SOFTWARE (SKM POWER TOOLS OR APPROVED EQUAL), AND SHALL BE SEALED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER.
- AN ARC FLASH ANALYSIS SHALL BE PROVIDED IN COMPLIANCE WITH NFPA 70E BASED ON THE SINGLE LINE DIAGRAM AND APPROVED EQUIPMENT MANUFACTURER USED AS THE BASIS OF DESIGN. THIS ANALYSIS SHALL BE SEALED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER. EQUIPMENT SHALL BE CLEARLY AND UNIQUELY IDENTIFIED AND INCLUDE VOLTAGE AND RATINGS. CONTRACTOR SHALL ACQUIRE UTILITY INFORMATION FROM THE SERVING UTILITY COMPANY. RECOMMENDATIONS SHALL BE INCLUDED FOR ADJUSTABLE CIRCUIT BREAKER SETTINGS. LABELING SHALL BE PROVIDED FOR ALL ELECTRICAL PANELS AND SWITCHBOARDS, IDENTIFYING THE SAFE APPROACH BOUNDARY (NO GREATER THAN LEVEL 3) AS WELL AS THE REQUIRED PERSONAL PROTECTIVE EQUIPMENT (PPE) FOR ACCESSING EACH PANEL OR SWITCHBOARD.
- MINIMUM EQUIPMENT A.I.C. RATINGS ARE 14K A.I.C. @ 480/277V AND 10K A.I.C. @ 208/120V UNLESS OTHERWISE NOTED.
- THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS AND THE A.I.C. RATINGS INDICATED FOR EACH DEVICE ARE ADEQUATE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM.
- THE DESIGN PROFESSIONAL HAS PERFORMED ALL THE REQUIRED VOLTAGE DROP CALCULATIONS FOR ALL BRANCH CIRCUITS AND FEEDERS PER 2011 NATIONAL ELECTRICAL CODE ARTICLE 210.19(A)(1), FPN NO. 4.
- PANELBOARD LOAD SUMMARIES INCLUDE ADDITIONAL 25% OF ALL CONTINUOUS AND LARGEST MOTOR LOADS WHERE APPLICABLE.
- THIS PROJECT REQUIRES A NEW UTILITY COMPANY SERVICE. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL ELECTRICAL UTILITY COMPANY TO INSTALL A NEW THREE PHASE SERVICE AS INDICATED.

SHEET NOTES:

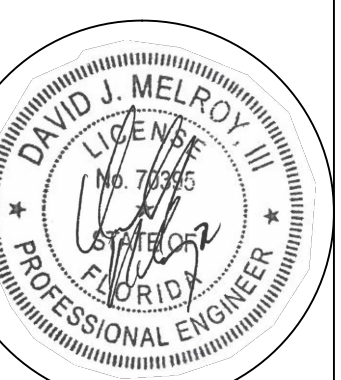
- 1 PROVIDE TWO (2) LC 4 D BLUE BOX #GR1416-NCL-DTCMOD-DV-DTCDI OR EQUIVALENT LIGHTING CONTROL PANEL.
- 2 PROVIDE LC 4 D CHELSEA DIGITAL SWITCH FOR CONTROL OF LIGHTING CIRCUIT. REFER TO SHEET E2.2 FOR LOCATIONS.
- 3 BRANCH CIRCUITS ROUTED FROM BRANCH CIRCUIT PANELS THROUGH LIGHTING CONTROL PANELS.
- 4 PROVIDE 4" CONCRETE EQUIPMENT PAD.



SINGLE LINE DIAGRAM
 EQ.1 NT5



INTERIOR TENANT IMPROVEMENT FOR:
 IMMUNOTEK BIO CENTERS, LLC
 4550 LAKE NORTH ROAD
 OFFICE DEPOT PLAZA, SUITE B-5
 LAKE WORTH, PALM BEACH COUNTY, FL 33463



AUG. 02. 2016
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proj. no. 16-002
 date: 08-02-2016
 project architect: B.A.
 project manager: A.D.
 drawn by: MSA
 file name: LAKEWORTH
 revised:
 plot scale: AS NOTED
 sheet name:
 SINGLE LINE
 DIAGRAM

sheet no.
 EO.1

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