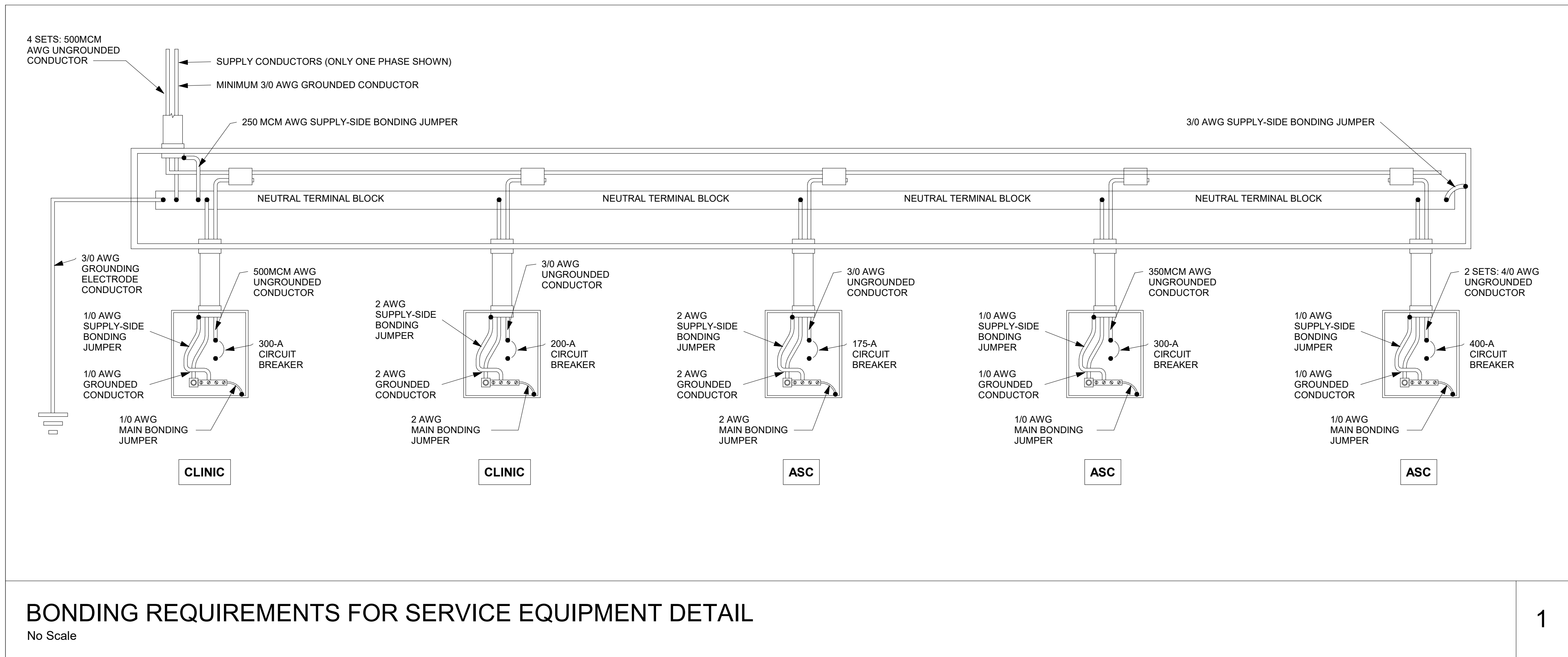




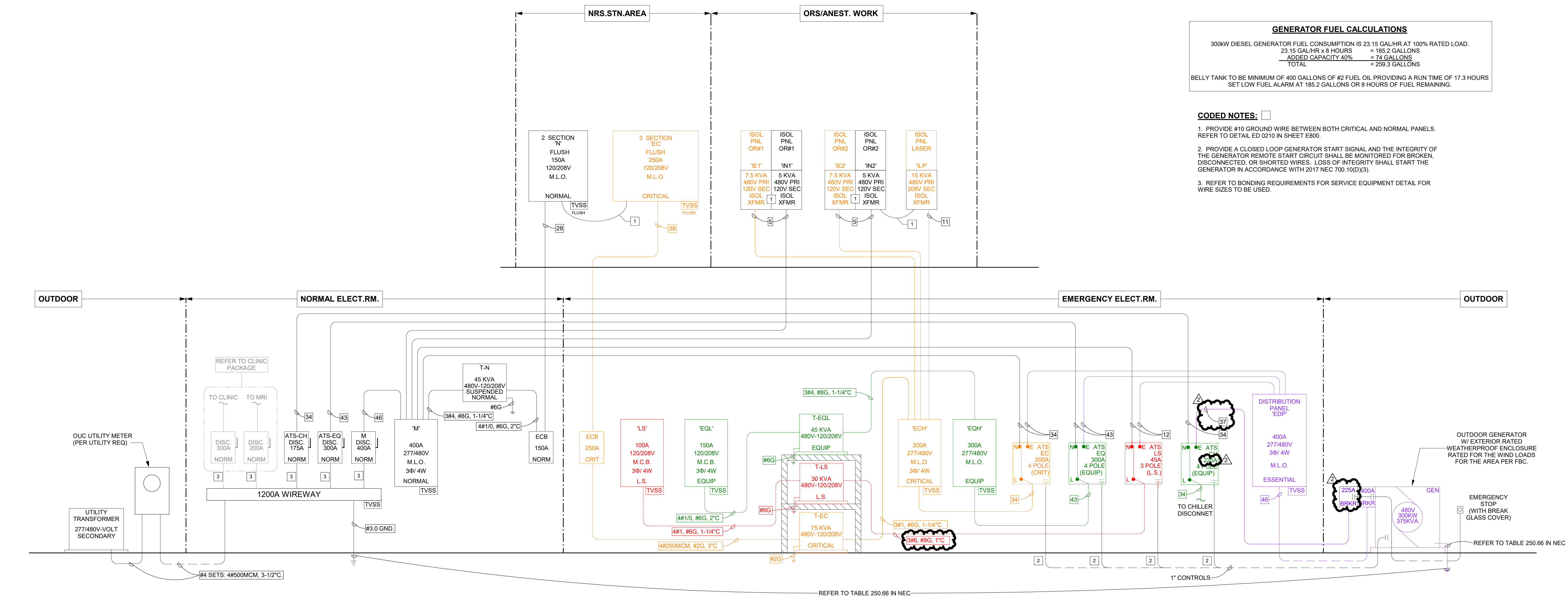
CONDUIT AND WIRE DESIGNATION SCHEDULE											
COPPER						ALUMINUM ALLOY					
WIRE/BKR	DESIG	MAX AMPS	#	DESCRIPTION	WIRE/BKR	DESIG	MAX AMPS	#	DESCRIPTION	WIRE/BKR	DESIG
20	1			2#12, 1/2"C	200	32			2#250MCM, 1#2G, 2-1/2"C	205	32
20	2			2#12, 1#12G, 1/2"C	200	33			3#250MCM, 1#2G, 2-1/2"C	205	33
20	3			3#12, 1#12G, 1/2"C	200	34			4#250MCM, 1#1G, 2-1/2"C	205	34
20	4			4#12, 1#12G, 1/2"C	230	35			2#300MCM, 1#2G, 2-1/2"C	230	35
30	5			2#10, 1#10G, 3/4"C	230	36			3#300MCM, 1#2G, 2-1/2"C	230	36
30	6			3#10, 1#10G, 3/4"C	230	37			4#300MCM, 1#2G, 3"C	230	37
30	7			4#10, 1#10G, 3/4"C	255	38			3#250MCM, 1#4G, 2-1/2"C	250	38
40	8			2#8, 1#10G, 3/4"C	255	39			4#350MCM, 1#2G, 3"C	250	39
40	9			3#8, 1#10G, 3/4"C	285	40			3#300MCM, 1#4G, 2-1/2"C	270	40
40	10			4#8, 1#10G, 3/4"C	285	41			4#300MCM, 1#4G, 3"C	270	41
55	11			2#6, 1#8G, 3/4"C	310	42			3#350MCM, 1#3G, 2-1/2"C	310	42
55	12			3#6, 1#8G, 3/4"C	310	43			4#350MCM, 1#3G, 3"C	310	43
55	13			4#6, 1#8G, 1"C	380	44			3#500MCM, 1#3G, 3"C	385	44
70	14			5#6, 1#8G, 1"C	380	45			4#500MCM, 1#3G, 3-1/2"C	385	45
70	15			3#4, 1#8G, 1"C	460	46			2 SETS, EA: 4#400MCM, 1#10G, 3"C	460	46
70	16			4#4, 1#8G, 1-1/4"C	510	47			2 SETS, EA: 4#400MCM, 1#20G, 3"C	540	47
85	17			2#3, 1#8G, 1-1/4"C	620	48			2 SETS, EA: 4#500MCM, 1#30G, 3-1/2"C	620	48
85	18			3#3, 1#8G, 1-1/4"C	760	49			2 SETS, EA: 4#750MCM, 1#30G, 4"C	770	49
85	19			4#3, 1#8G, 1-1/4"C	855	50			3 SETS, EA: 4#500MCM, 1#20G, 3"C	930	50
95	20			3#2, 1#6G, 1-1/4"C	930	51			3 SETS, EA: 4#500MCM, 1#40G, 3-1/2"C	930	51
95	21			3#2, 1#6G, 1-1/4"C	1005	52			4 SETS, EA: 4#350MCM, 1#40G, 3-1/2"C	1000	52
95	22			4#2, 1#6G, 1-1/4"C	1140	53			3 SETS, EA: 4#500MCM, 1#30G, 3-1/2"C	1240	53
130	23			2#1, 1#6G, 1-1/4"C	1240	54			4 SETS, EA: 4#500MCM, 1#40G, 3"C	1240	54
130	24			3#1, 1#6G, 1-1/4"C	1675	55			5 SETS, EA: 4#400MCM, 1#250MCMG, 3"C	1700	55
130	25			4#1, 1#6G, 1-1/2"C	1900	56			5 SETS, EA: 4#500MCM, 1#250MCMG, 3-1/2"C	1880	56
150	26			2#10, 1#6G, 1-1/2"C	2010	57			6 SETS, EA: 4#400MCM, 1#350MCMG, 3-1/2"C	2040	57
150	27			3#10, 1#6G, 1-1/2"C	2280	58			6 SETS, EA: 4#500MCM, 1#350MCMG, 3-1/2"C	2310	58
150	28			4#10, 1#6G, 2"C	2680	59			7 SETS, EA: 4#500MCM, 1#400MCMG, 4"C	2695	59
175	29			2#20, 1#6G, 1-1/2"C	3040	60			8 SETS, EA: 4#500MCM, 1#500MCMG, 3-1/2"C	3080	60
175	30			3#20, 1#6G, 1-1/2"C	4180	61			11 SETS, EA: 4#500MCM, 1#600MCMG, 3-1/2"C	4235	61
175	31			4#20, 1#6G, 2"C							

CONDUIT SIZE BASED ON THHN/THWN-90% FILL CALCULATION
WIRE SIZE BASED ON NEC 310-15 (B)(16) WITH 75°C AMPACITY TABLES

NOTE:
IN GENERAL, THE ACTUAL BREAKER AMPERAGE SHALL BE EQUAL TO OR NEXT STANDARD SIZE SMALLER THAN THE MAXIMUM WIRE AMPS. EXCEPTIONS SHALL BE MOTOR AND SPECIAL EQUIPMENT BREAKERS WHICH SHALL BE SIZED PER N.E.C. AND VENDOR REQUIREMENTS. OMIT GROUND CONDUCTORS ON SERVICE ENTRANCE FEEDERS (TYPICAL). USE #12 WIRE U.O.N. PRIOR TO ROUGH-IN. CONTRACTOR SHALL COORDINATE BREAKER AND WIRING WITH ACTUAL REQUIREMENTS OF EQUIPMENT BEING FURNISHED FOR THIS SPECIFIC PROJECT.

UNLESS NOTED OTHERWISE ALL 20A, 1P, BREAKERS TO UTILIZE #12 CONDUCTORS, EXCEPT WHERE BRANCH CIRCUIT IS IN EXCESS OF 90 LINEAR FEET CONDUCTORS TO BE #10 AND OVER 175 FEET LINEAR FEET CONDUCTORS TO BE #8.

CONDUIT SIZE BASED ON 40% FILL CALCULATION FOR TYPE XHHW INSULATION



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AIRCAC OPC PROJECT # 141494121-11912

DEUK SPINE INSTITUTE
Surgery Center at Millenia, LLC

Hunton Brady ARCHITECTS

DATE	SUBMISSION	NO
12.12.2023	CONSTRUCTION DOCUMENTS	1
05.19.26	CCD NO. 1	1
08.07.26	CCD #2R	2

ELECTRICAL RISER DIAGRAMS

PROJ. NO. H-23016.00 SHEET
DRAWN RC

E600A