

GENERAL NOTES:
1. PROVIDE WIDE PANEL ENCLOSURE SUITABLE FOR INSTALLATION OF CTs AND PTs FOR SUBMETERING MAIN AND BRANCH CIRCUITS FOR HVAC SYSTEMS, INTERIOR LIGHTING, EXTERIOR LIGHTING, AND RECEPTACLES SEPARATELY AS REQUIRED BY ASHRAE.

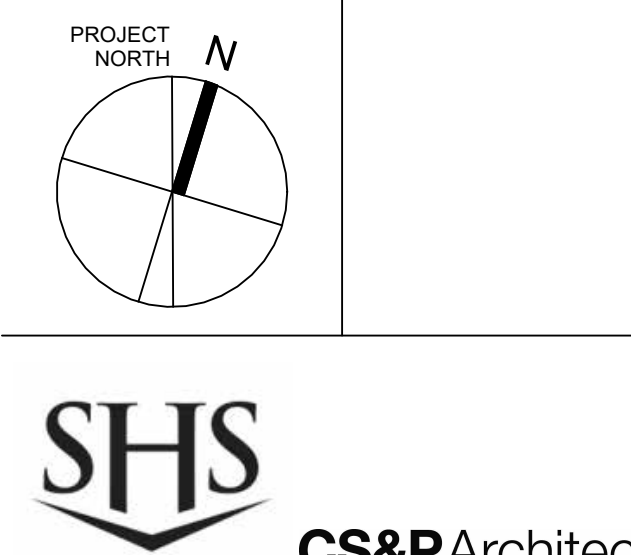
If this sheet is not 45 7/8" x 33 1/8" (1189 x 841 mm) it is a reduced print
- Read dwg. accordingly.

Contractors must check and verify all dimensions on the job and report any discrepancies to the Architect before proceeding with the work.
All prints and specifications are the property of the Architect and must be returned at the completion of the work.

Drawings should not be scaled.

No	Date	Revision/Issued
1	2025.11.05	ISSUED FOR 15% CD
2	2025.12.15	30% CONSTRUCTION DOCUMENTS
3	2025.01.30	PROGRESS SET
4	2025.03.13	ISSUED FOR BUILDING PERMIT
5	2025.04.10	75% CONSTRUCTION DOCUMENTS
6	2025.05.12	90% CONSTRUCTION DOCUMENTS
7	2025.07.08	ISSUED FOR TENDER
8	2025.07.22	ADDENDUM E01

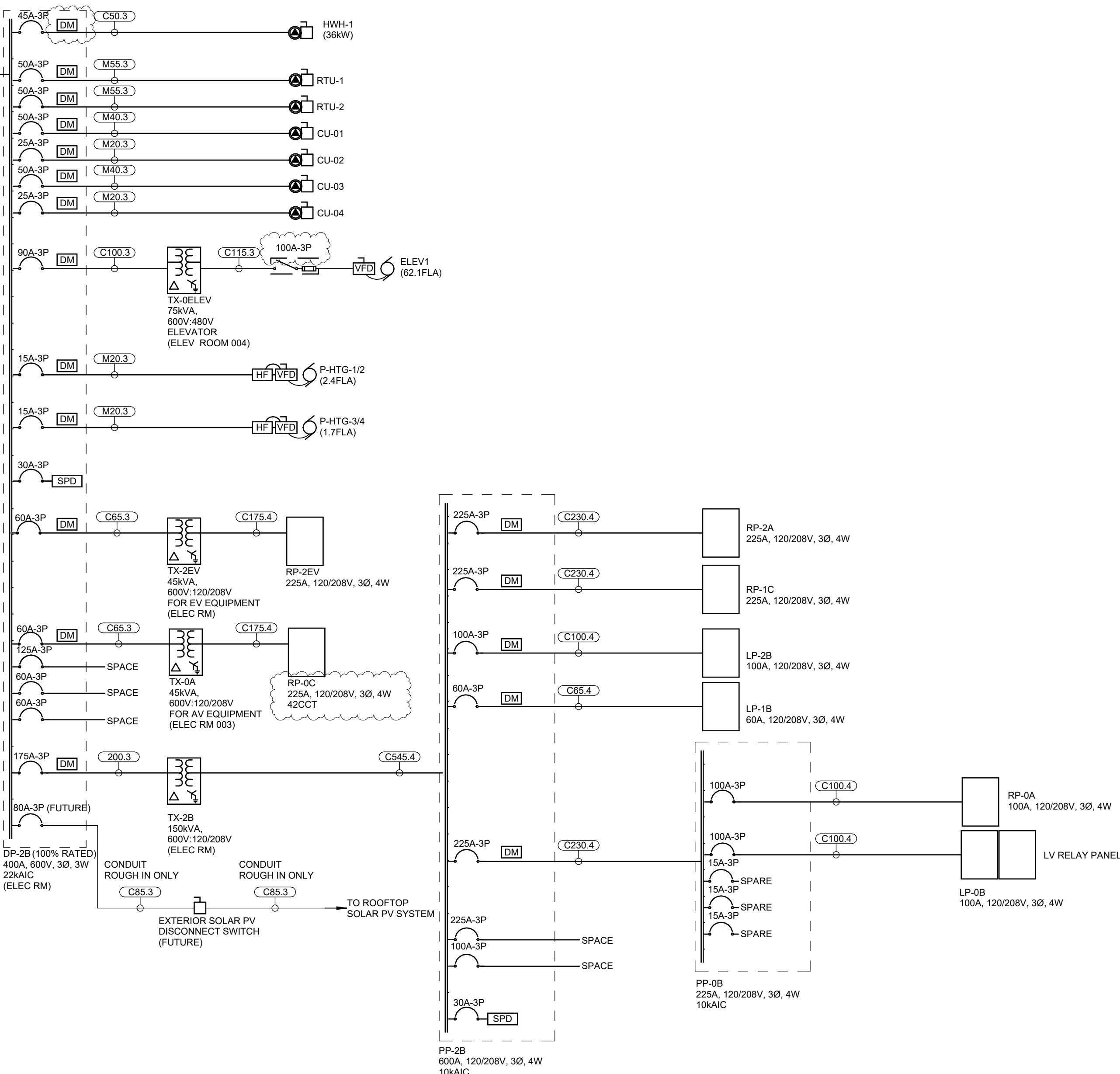
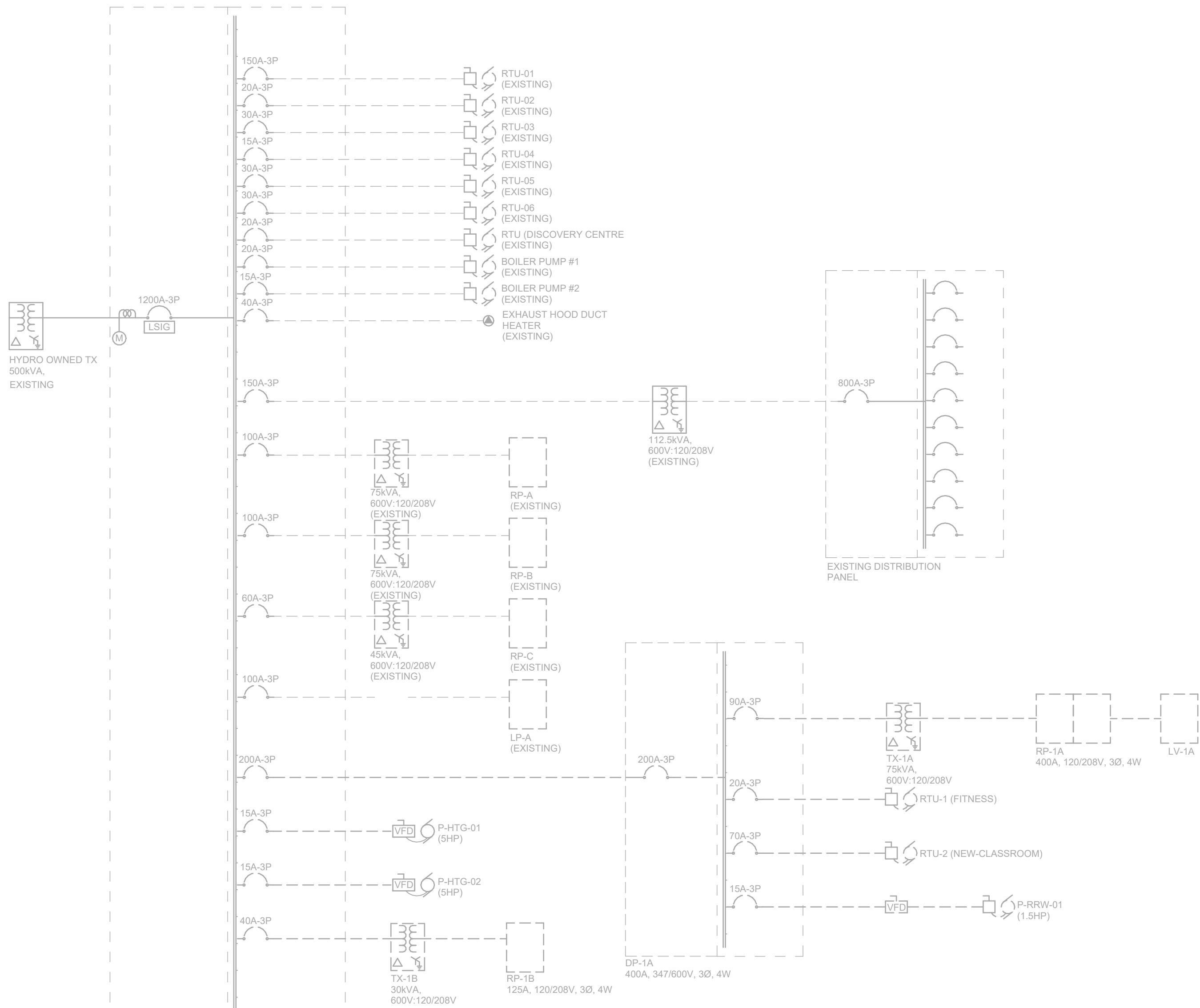
consultants	
architect	CS&P Architects Inc. 2345 Yonge St., Suite 200 Toronto, ON, M4P 2E5 Phone: 416.462.5002 Fax: 416.462.5040
civil engineer	SSS Consulting Group Ltd. 30 Centuria Drive, Suite 100 Markham, ON, L3R 8B8 Phone: 905.475.1800 Fax: 905.475.5335
structural engineer	LEA Consulting Ltd. 40 University Ave., Suite 503 Toronto, ON, M5J 1T1 Phone: 905.470.0015
mechanical engineer	Smith + Andersen 4211 Yonge Street Toronto, ON, M2P 2A8 Phone: 416.487.8151
electrical engineer	Smith + Andersen 4211 Yonge Street Toronto, ON, M2P 2A8 Phone: 416.487.8151
landscape architect	Quinn Design Associates Inc. 180 John Street Toronto, ON, M5T 1X5 Phone: 416.962.8700



STERLING HALL
99 Cartwright Avenue, Toronto, ON M6A 1V4

SINGLE LINE DIAGRAM

scale: N.T.S.
date: XX/XX/2X
drawn: RLJG
checked by: Checker
project number: 00036.010.E001
drawing number: E-200
Revision: 8



E - COPPER FEEDER SCHEDULE											
(PER TABLE 2 CEC (2022) AND RULE 4-006, 60C (FOR EQUIPMENT 100A AND BELOW), 75C AND TABLE 6B RW90XPE UNJACKETED 1000V FOR RW90 COLUMN AND TABLE 6D RW90 UNJACKETED FOR RW90 COLUMN.)											
1. SCHEDULE IS TO BE USED FOR FEEDERS AND MOTOR BRANCH WIRING ONLY. DO NOT USE FOR BRANCH WIRING FROM PANELBOARDS											
2. RW90 WIRING IS TO BE USED FOR UNDERGROUND INSTALLATIONS. CONDUIT SIZE HAS BEEN ADJUSTED TO ACCOMMODATE FOR 100V INSULATION RATING.											
3. FOR MOTORS REQUIRING FEEDERS GREATER THAN 110A, THE BONDING CONDUCTOR SHALL BE SIZED ACCORDING TO CEC RULE 10-614.											
FEEDER No.	No. OF RUNS	CONDUCTOR SIZE + BONDING CONDUCTOR SIZE AWG OR KCMIL PER RUN	FEEDER AMPACITY FOR 3 & 4 WIRE SYSTEMS	MAXIMUM CIRCUIT CAPACITY PER 75°C COLUMN (PER 60°C COLUMN FOR MOTORS)				MAXIMUM CIRCUIT CAPACITY PER 75°C COLUMN (PER 60°C COLUMN FOR MOTORS)			
				3 WIRE + BONDING CONDUCTOR CONDUIT SIZE PER RUN	4 WIRE + BONDING CONDUCTOR CONDUIT SIZE PER RUN	5 WIRE + BONDING CONDUCTOR CONDUIT SIZE PER RUN	FEEDER AMPACITY FOR 5 WIRE SYSTEMS	5 WIRE (DOUBLE NEUTRAL) + BONDING CONDUCTOR (HARMONIC MITIGATING TRANSFORMERS) CONDUIT SIZE PER RUN			
				RW90	RW90	RW90	RW90	RW90	RW90		
M20	1	#12 AWG + #12 AWG	20	21 (3/4")	21 (3/4")	N/A	N/A	N/A	N/A		
M30	1	#10 AWG + #10 AWG	30	21 (3/4")	21 (3/4")	N/A	N/A	N/A	N/A		
M40	1	#8 AWG + #8 AWG	40	21 (3/4")	21 (3/4")	N/A	N/A	N/A	N/A		
M50	1	#6 AWG + #6 AWG	55	27 (1")	35 (1-1/4")	N/A	N/A	N/A	N/A		
M60	1	#4 AWG + #4 AWG	70	35 (1-1/4")	35 (1-1/4")	N/A	N/A	N/A	N/A		
M70	1	#3 AWG + #3 AWG	85	41 (1-1/2")	41 (1-1/2")	N/A	N/A	N/A	N/A		
M85	1	#3 AWG + #6 AWG	85	35 (1-1/4")	41 (1-1/2")	N/A	N/A	N/A	N/A		
M95	1	#2 AWG + #6 AWG	95	41 (1-1/2")	41 (1-1/2")	N/A	N/A	N/A	N/A		
M110	1	#1 AWG + #6 AWG	110	53 (2")	53 (2")	N/A	N/A	N/A	N/A		
C20	1	#12 AWG + #12 AWG	20	21 (3/4")	21 (3/4")	21 (3/4")	21 (3/4")	N/A	N/A		
C30	1	#10 AWG + #12 AWG	30	21 (3/4")	21 (3/4")	21 (3/4")	27 (1")	N/A	N/A		
C40	1	#8 AWG + #10 AWG	40	21 (3/4")	27 (1")	35 (1-1/4")	35 (1-1/4")	N/A	N/A		
C50	1	#6 AWG + #8 AWG	55	27 (1")	35 (1-1/4")	35 (1-1/4")	35 (1-1/4")	N/A	N/A		
C60	1	#4 AWG + #8 AWG	70	35 (1-1/4")	35 (1-1/4")	35 (1-1/4")	41 (1-1/2")	N/A	N/A		
C70	1	#3 AWG + #8 AWG	85	35 (1-1/4")	41 (1-1/2")	41 (1-1/2")	41 (1-1/2")	N/A	N/A		
C85	1	#2 AWG + #8 AWG	95	41 (1-1/2")	41 (1-1/2")	41 (1-1/2")	53 (2")	N/A	N/A		
C110	1	#2 AWG + #6 AWG	115	41 (1-1/2")	41 (1-1/2")	41 (1-1/2")	53 (2")	N/A	N/A		
C130	1	#1 AWG + #6 AWG	130	53 (2")	53 (2")	53 (2")	53 (2")	N/A	N/A		
C150	1	#10 AWG + #6 AWG	150	53 (2")	63 (2-1/2")	63 (2-1/2")	63 (2-1/2")	C120	120	63 (2-1/2")	63 (2-1/2")
C160	1	#8 AWG + #6 AWG	160	53 (2")	63 (2-1/2")	63 (2-1/2")	63 (2-1/2")	C130	140	63 (2-1/2")	63 (2-1/2")
C200	1	#3 AWG + #4 AWG	200	63 (2-1/2")	63 (2-1/2")	63 (2-1/2")	63 (2-1/2")	C160	160	78 (3")	78 (3")
C210	1	#2 AWG + #4 AWG	225	63 (2-1/2")	63 (2-1/2")	78 (3")	78 (3")	C184	184	78 (3")	78 (3")
C220	1	#2 AWG + #4 AWG	240	63 (2-1/2")	78 (3")	78 (3")	78 (3")	C204	204	78 (3")	78 (3")
C285	1	300 KCMIL + #4 AWG	285	78 (3")	78 (3")	78 (3")	78 (3")	C228	228	91 (1-1/2")	91 (1-1/2")
C300	2	#10 AWG + #6 AWG	300	53 (2")	53 (2")	63 (2-1/2")	63 (2-1/2")	C240	240	91 (1-1/2")	91 (1-1/2")
C310	1	300 KCMIL + #3 AWG	310	78 (3")	78 (3")	91 (1-1/2")	91 (1-1/2")	C248	248	91 (1-1/2")	91 (1-1/2")
C335	1	400 KCMIL + #3 AWG	335	78 (3")	78 (3")	91 (1-1/2")	91 (1-1/2")	C268	268	103 (1-1/4")	103 (1-1/4")
C340	1	#2 AWG + #6 AWG	340	53 (2")	53 (2")	63 (2-1/2")	63 (2-1/2")	C280	280	103 (1-1/4")	103 (1-1/4")
C360	1	500 KCMIL + #3 AWG	360	91 (1-1/2")	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	C304	304	103 (1-1/4")	129 (1-1/2")
C380	1	600 KCMIL + #3 AWG	380	91 (1-1/2")	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	C320	320	129 (1-1/2")	129 (1-1/2")
C400	1	800 KCMIL + #2 AWG	400	129 (1-1/2")	129 (1-1/2")	129 (1-1/2")	129 (1-1/2")	C336	336	129 (1-1/2")	129 (1-1/2")
C420	1	1000 KCMIL + #2 AWG	420	103 (1-1/4")	103 (1-1/4")	129 (1-1/2")	129 (1-1/2")	C368	368	78 (3")	78 (3")
C440	1	#4 AWG + #4 AWG	440	63 (2-1/2")	63 (2-1/2")	78 (3")	78 (3")	C380	380	78 (3")	78 (3")
C450	1	#4 AWG + #4 AWG	450	63 (2-1/2")	78 (3")	78 (3")	78 (3")	C400	400	129 (1-1/2")	129 (1-1/2")
C460	1	250 KCMIL + #4 AWG	510	63 (2-1/2")	78 (3")	78 (3")	78 (3")	C408	408	78 (3")	91 (1-1/2")
C480	1	300 KCMIL + #1 AWG	540	129 (1-1/2")	129 (1-1/2")	156 (1-1/2")	156 (1-1/2")	C436	436	156 (1-1/2")	156 (1-1/2")
C500	1	300 KCMIL + #1 AWG	570	78 (3")	78 (3")	78 (3")	78 (3")	C456	456	129 (1-1/2")	129 (1-1/2")
C520	1	300 KCMIL + #1 AWG	600	78 (3")	78 (3")	91 (1-1/2")	91 (1-1/2")	C466	466	91 (1-1/2")	91 (1-1/2")
C540	1	300 KCMIL + #1 AWG	630	78 (3")	78 (3")	91 (1-1/2")	91 (1-1/2")	C486	486	103 (1-1/4")	103 (1-1/4")
C560	1	300 KCMIL + #1 AWG	660	78 (3")	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	C506	506	103 (1-1/4")	129 (1-1/2")
C580	1	300 KCMIL + #1 AWG	690	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C526	526	103 (1-1/4")	129 (1-1/2")
C600	1	300 KCMIL + #1 AWG	720	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C546	546	103 (1-1/4")	129 (1-1/2")
C620	1	300 KCMIL + #1 AWG	750	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C566	566	103 (1-1/4")	129 (1-1/2")
C640	1	300 KCMIL + #1 AWG	780	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C586	586	103 (1-1/4")	129 (1-1/2")
C660	1	300 KCMIL + #1 AWG	810	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C606	606	103 (1-1/4")	129 (1-1/2")
C680	1	300 KCMIL + #1 AWG	840	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C626	626	103 (1-1/4")	129 (1-1/2")
C700	1	300 KCMIL + #1 AWG	870	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C646	646	91 (1-1/2")	91 (1-1/2")
C720	1	300 KCMIL + #1 AWG	900	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C666	666	91 (1-1/2")	91 (1-1/2")
C740	1	300 KCMIL + #1 AWG	930	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C686	686	91 (1-1/2")	91 (1-1/2")
C760	1	300 KCMIL + #1 AWG	960	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C706	706	129 (1-1/2")	129 (1-1/2")
C780	1	300 KCMIL + #1 AWG	990	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C726	726	129 (1-1/2")	129 (1-1/2")
C800	1	300 KCMIL + #1 AWG	1020	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C746	746	129 (1-1/2")	129 (1-1/2")
C820	1	300 KCMIL + #1 AWG	1050	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C766	766	129 (1-1/2")	129 (1-1/2")
C840	1	300 KCMIL + #1 AWG	1080	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C786	786	129 (1-1/2")	129 (1-1/2")
C860	1	300 KCMIL + #1 AWG	1110	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C806	806	103 (1-1/4")	103 (1-1/4")
C880	1	300 KCMIL + #1 AWG	1140	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C826	826	91 (1-1/2")	91 (1-1/2")
C900	1	300 KCMIL + #1 AWG	1170	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C846	846	91 (1-1/2")	91 (1-1/2")
C920	1	300 KCMIL + #1 AWG	1200	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C866	866	91 (1-1/2")	91 (1-1/2")
C940	1	300 KCMIL + #1 AWG	1230	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C886	886	91 (1-1/2")	91 (1-1/2")
C960	1	300 KCMIL + #1 AWG	1260	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C906	906	91 (1-1/2")	91 (1-1/2")
C980	1	300 KCMIL + #1 AWG	1290	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C926	926	91 (1-1/2")	91 (1-1/2")
C1000	1	300 KCMIL + #1 AWG	1320	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C946	946	91 (1-1/2")	91 (1-1/2")
C1020	1	300 KCMIL + #1 AWG	1350	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C966	966	91 (1-1/2")	91 (1-1/2")
C1040	1	300 KCMIL + #1 AWG	1380	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C986	986	91 (1-1/2")	91 (1-1/2")
C1060	1	300 KCMIL + #1 AWG	1410	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C1006	1006	91 (1-1/2")	91 (1-1/2")
C1080	1	300 KCMIL + #1 AWG	1440	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C1026	1026	91 (1-1/2")	91 (1-1/2")
C1100	1	300 KCMIL + #1 AWG	1470	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C1046	1046	91 (1-1/2")	91 (1-1/2")
C1120	1	300 KCMIL + #1 AWG	1500	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	103 (1-1/4")	C1066	1066	91 (1-1/2")	91 (1-1/2")
C1140	1	300 KCMIL + #3 AWG	1140	91 (1-1/2")	91 (1-1/2")	103 (1-1/4")	103 (1-1/4")	C912	912	103 (1-1/4")	129 (1-1/2")
C1160	1	300 KCMIL + #3 AWG	1160	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C922	922	91 (1-1/2")	129 (1-1/2")
C1180	1	300 KCMIL + #3 AWG	1180	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C932	932	91 (1-1/2")	129 (1-1/2")
C1200	1	300 KCMIL + #3 AWG	1200	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C942	942	91 (1-1/2")	129 (1-1/2")
C1220	1	300 KCMIL + #3 AWG	1220	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C952	952	91 (1-1/2")	129 (1-1/2")
C1240	1	300 KCMIL + #3 AWG	1240	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C962	962	91 (1-1/2")	129 (1-1/2")
C1260	1	300 KCMIL + #3 AWG	1260	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C972	972	91 (1-1/2")	129 (1-1/2")
C1280	1	300 KCMIL + #3 AWG	1280	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C982	982	91 (1-1/2")	129 (1-1/2")
C1300	1	300 KCMIL + #3 AWG	1300	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C992	992	91 (1-1/2")	129 (1-1/2")
C1320	1	300 KCMIL + #3 AWG	1320	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C1002	1002	91 (1-1/2")	129 (1-1/2")
C1340	1	300 KCMIL + #3 AWG	1340	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C1012	1012	91 (1-1/2")	129 (1-1/2")
C1360	1	300 KCMIL + #3 AWG	1360	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C1022	1022	91 (1-1/2")	129 (1-1/2")
C1380	1	300 KCMIL + #3 AWG	1380	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C1032	1032	91 (1-1/2")	129 (1-1/2")
C1400	1	300 KCMIL + #3 AWG	1400	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C1042	1042	91 (1-1/2")	129 (1-1/2")
C1420	1	300 KCMIL + #3 AWG	1420	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C1052	1052	91 (1-1/2")	129 (1-1/2")
C1440	1	300 KCMIL + #3 AWG	1440	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C1062	1062	91 (1-1/2")	129 (1-1/2")
C1460	1	300 KCMIL + #3 AWG	1460	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C1072	1072	91 (1-1/2")	129 (1-1/2")
C1480	1	300 KCMIL + #3 AWG	1480	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C1082	1082	91 (1-1/2")	129 (1-1/2")
C1500	1	300 KCMIL + #3 AWG	1500	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C1092	1092	91 (1-1/2")	129 (1-1/2")
C1520	1	300 KCMIL + #3 AWG	1520	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	C1102	1102	91 (1-1/2")	129 (1-1/2")
C1540	1	300 KCMIL + #3 AWG	1540	91 (1-1/2")	91 (1-1/2")	91 (1-1/2")	91 (1-1				