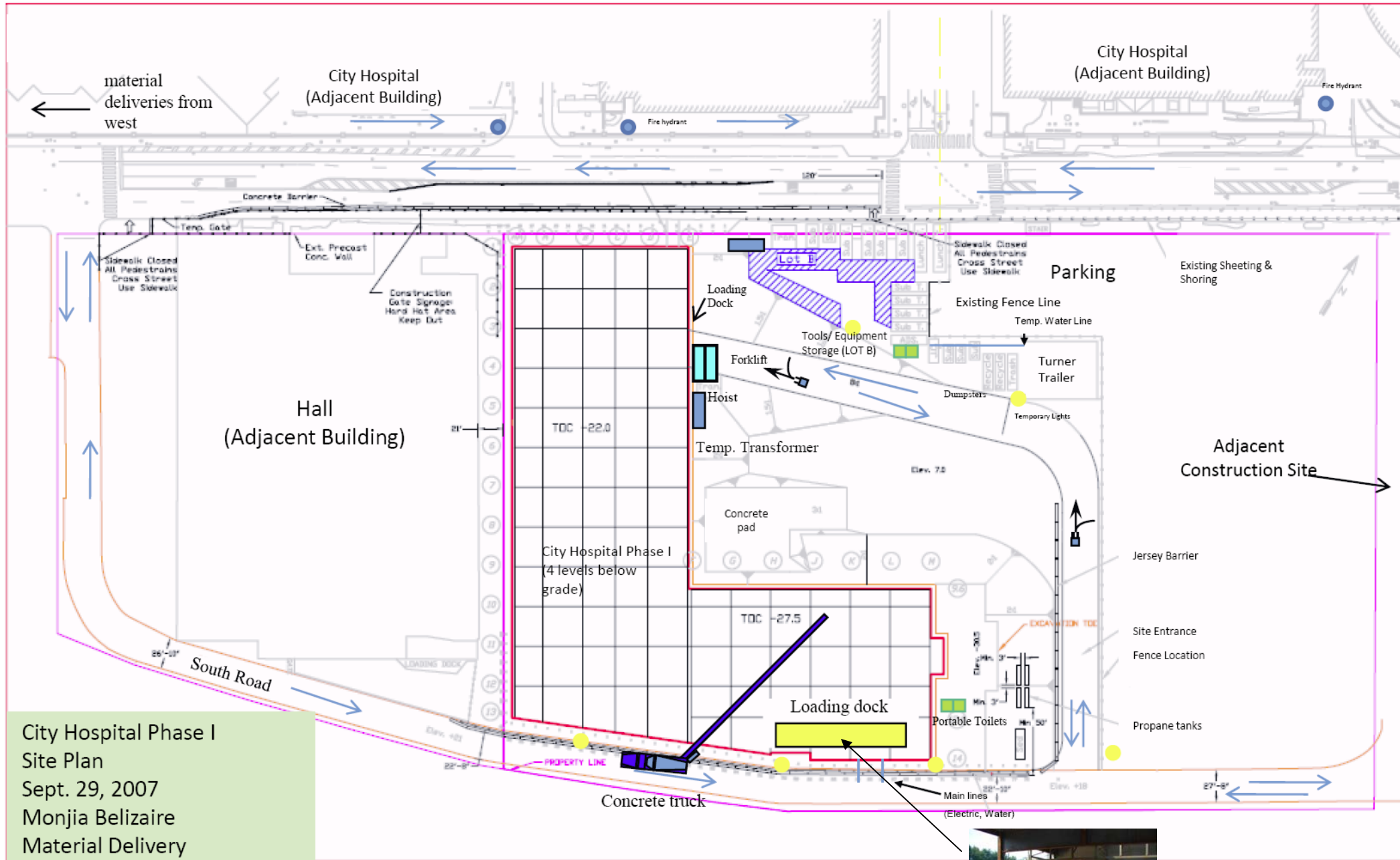


APPENDIX A : SITE PLAN



City Hospital Phase I
 Site Plan
 Sept. 29, 2007
 Monjia Belizaire
 Material Delivery



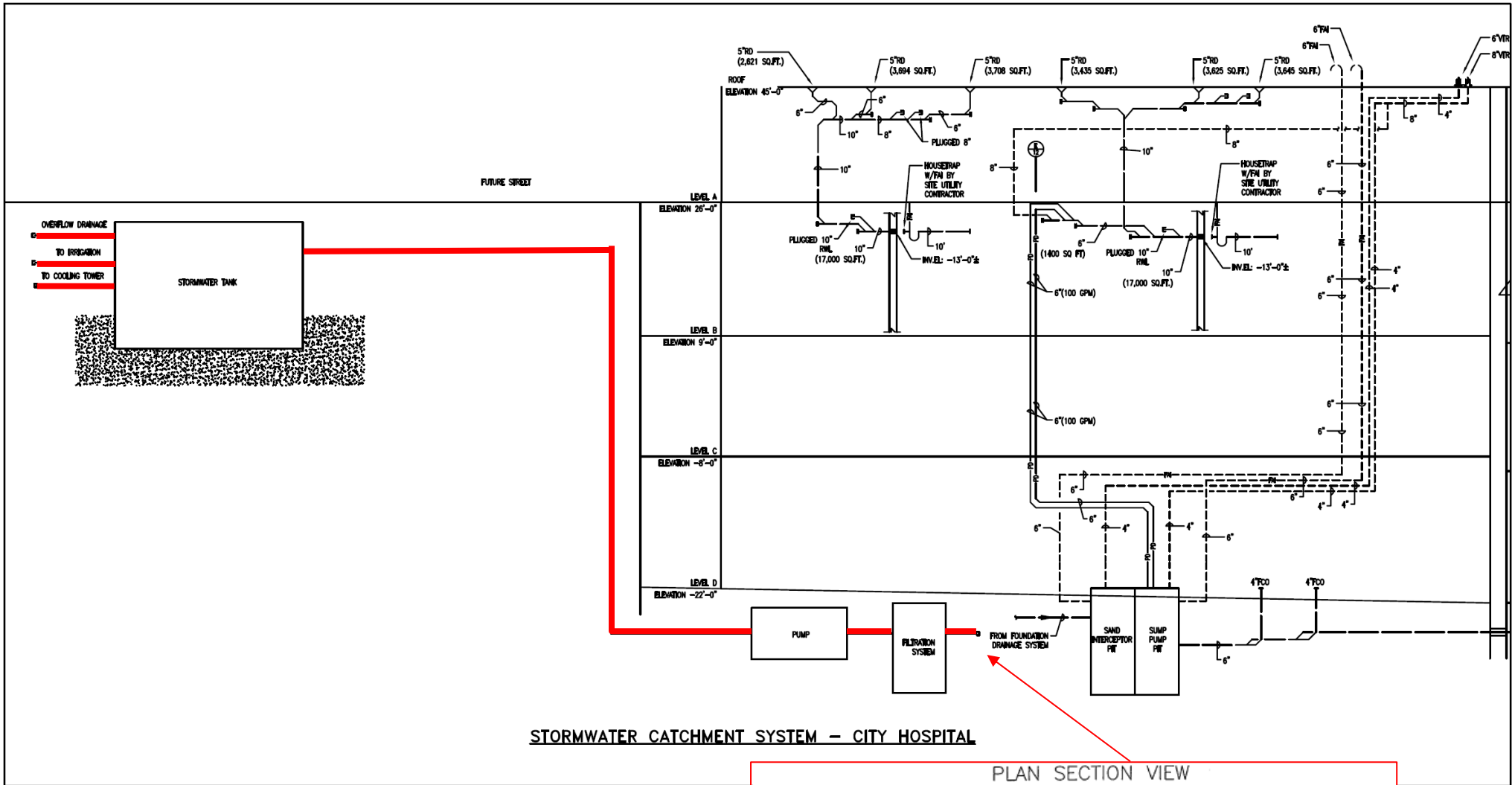
APPENDIX B : PROJECT SCHEDULE

City Hospital
Project Schedule

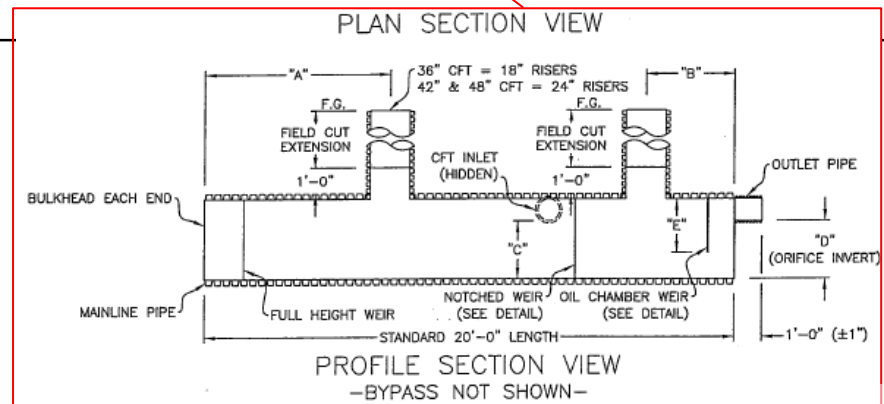
ID	Task Name	Duration	Start	Finish	2005					2006					2007								
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov
1	Design Development	210 days	Mon 12/13/04	Fri 9/30/05																			
2	Procurement of Services	664 days	Thu 3/31/05	Thu 10/11/07																			
3	Site work	602 days	Thu 5/5/05	Tue 8/21/07																			
4	Contract Awarded (Phase1)	1 day	Thu 3/2/06	Thu 3/2/06																			
5	Concrete	1 day	Tue 2/28/06	Tue 2/28/06																			
6	Foundations	176 days	Tue 2/28/06	Mon 10/30/06																			
7	Slab on Grade	110 days	Tue 7/11/06	Thu 12/7/06																			
8	Prep & Pour Concrete on Deck	204 days	Tue 8/29/06	Tue 6/5/07																			
9	Prep & Pour Walls	20 days	Mon 1/29/07	Fri 2/23/07																			
10	Steel & Metals	1 day	Thu 7/27/06	Thu 7/27/06																			
11	Erect Steel & Metal Deck	185 days	Thu 7/27/06	Fri 4/6/07																			
12	Steel Stairs	78 days	Tue 3/13/07	Thu 6/28/07																			
13	AHU Grating Platform- (CUP)	15 days	Thu 7/5/07	Wed 7/25/07																			
14	Thermal/Moisture Protection	1 day	Wed 8/2/06	Wed 8/2/06																			
15	Spray on Fire Proofing (CUP)	126 days	Wed 8/2/06	Mon 1/22/07																			
16	Waterproofing Foundation Walls (CUP)	174 days	Mon 10/30/06	Tue 6/26/07																			
17	Waterproofing Foundation Walls (Research)	178 days	Wed 11/8/06	Wed 7/11/07																			
18	Spray on Fire Proofing (Research)	66 days	Sat 1/27/07	Fri 4/27/07																			
19	Roofing (CUP)	102 days	Tue 2/6/07	Wed 6/27/07																			
20	Temporary Roofing (research)	47 days	Tue 4/24/07	Wed 6/27/07																			
21	Waterproofing (Loading Dock)- CUP	37 days	Mon 5/7/07	Tue 6/26/07																			
22	Building Weathertight	1 day	Wed 6/6/07	Wed 6/6/07																			
23	Masonry	1 day	Thu 12/7/06	Thu 12/7/06																			
24	Mobilize Masonry & Set up Scaffold	6 days	Thu 12/7/06	Thu 12/14/06																			
25	Exterior Skin Start	1 day	Fri 12/15/06	Fri 12/15/06																			
26	Masonry (Exterior)- (C.U.P.)	118 days	Mon 12/18/06	Tue 5/29/07																			
27	Masonry (Interior)- (CUP)	135 days	Thu 12/21/06	Tue 6/26/07																			
28	Masonry (Interior)-(Research)	82 days	Wed 3/7/07	Thu 6/28/07																			
29	Masonry (Exterior)- (Research)	70 days	Mon 4/9/07	Fri 7/13/07																			
30	Exterior walls	65 days	Mon 7/16/07	Fri 10/12/07																			
31	Plumbing	1 day	Fri 10/13/06	Fri 10/13/06																			
32	Domestic Water Hangers/Rough-ins (CUP)	188 days	Fri 10/13/06	Fri 6/29/07																			
33	Natural Gas Piping/Equip./Connections (CUP)	78 days	Mon 1/15/07	Tue 5/1/07																			
34	Sanit./ Storm & Acid Waste Hangers/Rough-in (Research)	76 days	Mon 3/19/07	Mon 7/2/07																			
35	In Wall Plumbing Rough-in (Research)	90 days	Mon 3/26/07	Fri 7/27/07																			
36	Process Chilled Water Hangers/ Rough-in (Research)	59 days	Wed 4/4/07	Mon 6/25/07																			
37	Domestic Water Hangers/ Rough-in (Research)	52 days	Thu 4/19/07	Fri 6/29/07																			
38	Medical Gas Hangers/ Rough-in (Research)	63 days	Thu 4/19/07	Mon 7/16/07																			
39	In-Wall Plumbing Rough-in (Research)	48 days	Mon 5/14/07	Wed 7/18/07																			
40	Domestic Water Fixtures/ Finishes (Research)	29 days	Fri 8/3/07	Wed 9/12/07																			
41	Install & Pipe Dom. Hot Water Generator (CUP)	15 days	Thu 8/9/07	Wed 8/29/07																			
42	Medical Gas Outlets/ Finishes (Research)	29 days	Tue 8/21/07	Fri 9/28/07																			
43	Install & Pipe Service Air & Vacuum Equip. (CUP)	20 days	Thu 8/30/07	Wed 9/26/07																			
44	Piping Insulation (CUP)	15 days	Fri 9/14/07	Thu 10/4/07																			
45	H.V.A.C.	1 day	Wed 11/29/06	Wed 11/29/06																			

Date: Sat 4/5/08	Task		Summary		Rolled Up Progress		Project Summary	
	Critical Activity		Rolled Up Task		Split		Group By Summary	
	Milestone		Milestone		External Tasks		Deadline	

APPENDIX C : LEED® POINT EXECUTION



STORMWATER CATCHMENT SYSTEM - CITY HOSPITAL



PROFILE SECTION VIEW
-BYPASS NOT SHOWN-

APPENDIX D : ELECTRICAL PROPOSAL

NEC Table 310-16

Ampacities of Insulated Conductors Rated 0-2000 Volts, 60° to 90°C

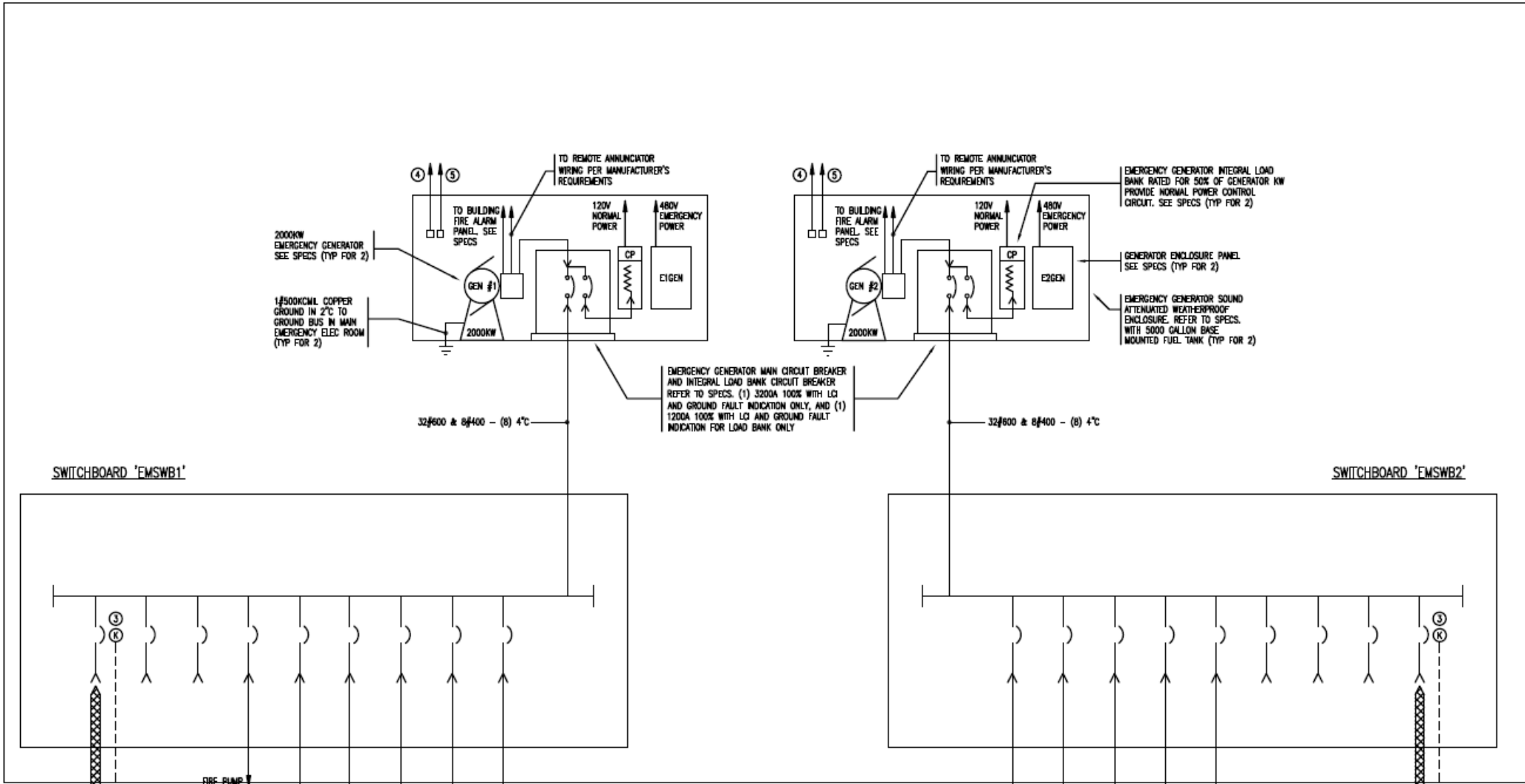
Not more than three conductors in raceway or cable or earth (directly buried).

Based on ambient temperature of 30°C (86°F)

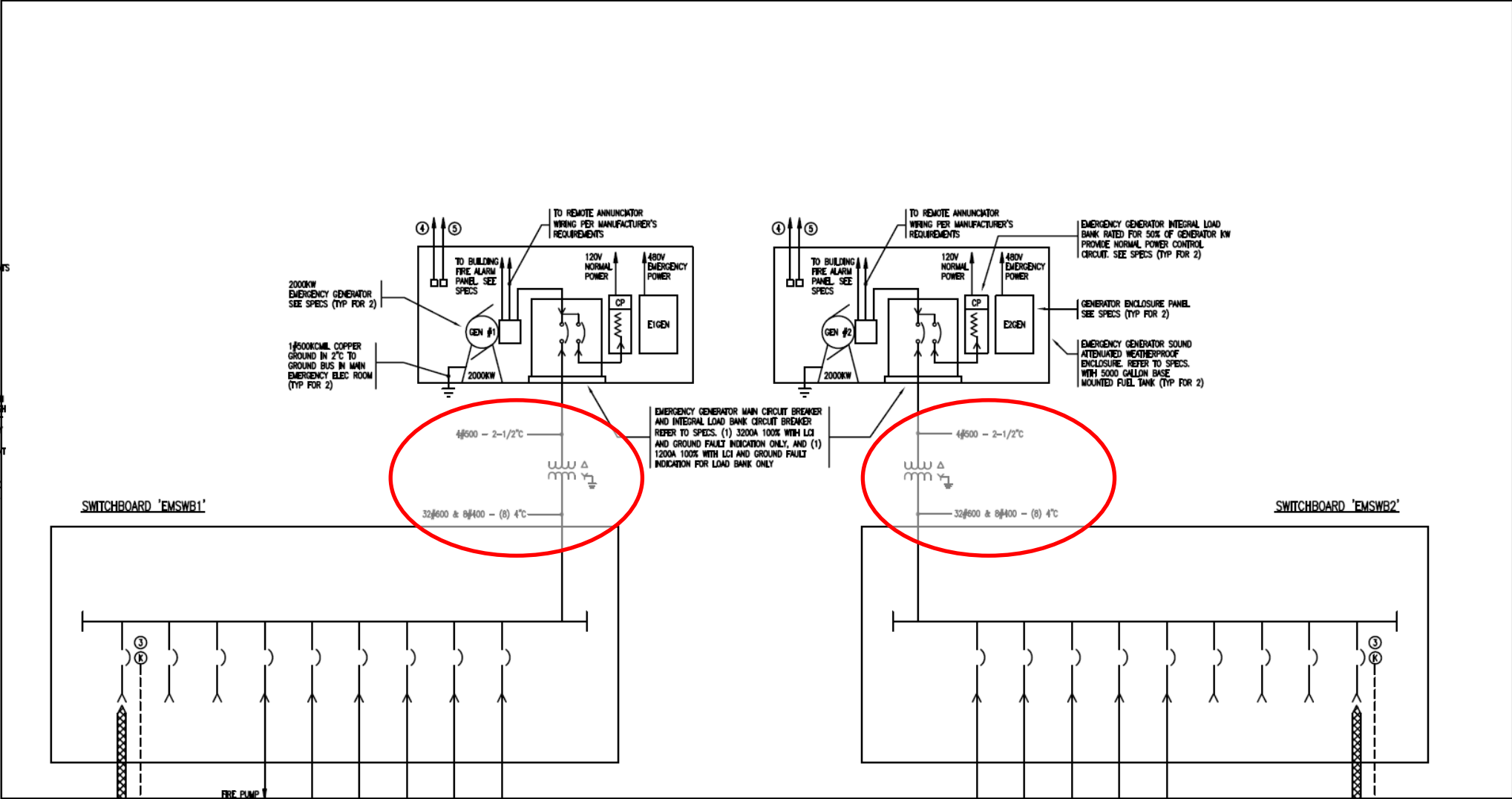
Size	Temperature Rating of Conductor						Size
AWG	60°C (140°F)	75°C (167°F)	90°C (194°F)	60°C (140°F)	75°C (167°F)	90°C (194°F)	AWG
	Types	Types	Types	Types	Types	Types	
	T TW UF	THW THWN XHHW USE	RHH THHN XHHW	T TW UF	THW THWN XHHW USE	RHH THHN XHHW	
	Copper			Aluminum			
14	20	20	25	----	----	----	----
12	25	25	30	20	20	25	12
10	30	35	40	25	30	35	10
8	40	50	55	30	40	45	8
6	55	65	75	40	50	60	6
4	70	85	95	55	65	75	4
3	85	100	110	65	75	85	3
2	95	115	130	75	90	100	2
1	110	130	150	85	100	115	1
0	125	150	170	100	120	135	0
00	145	175	195	115	135	150	00
000	165	200	225	130	155	175	000
0000	195	230	260	150	180	205	0000
250	215	255	290	170	205	230	250
300	240	285	320	190	230	255	300
350	260	310	350	210	250	280	350
400	280	335	380	225	270	305	400
500	320	380	430	260	310	350	500
600	355	420	475	285	340	385	600
700	385	460	520	310	375	420	700
750	400	475	535	320	385	435	750
800	410	490	555	330	395	450	800
900	435	520	585	355	425	480	900
1000	455	545	615	375	445	500	1000

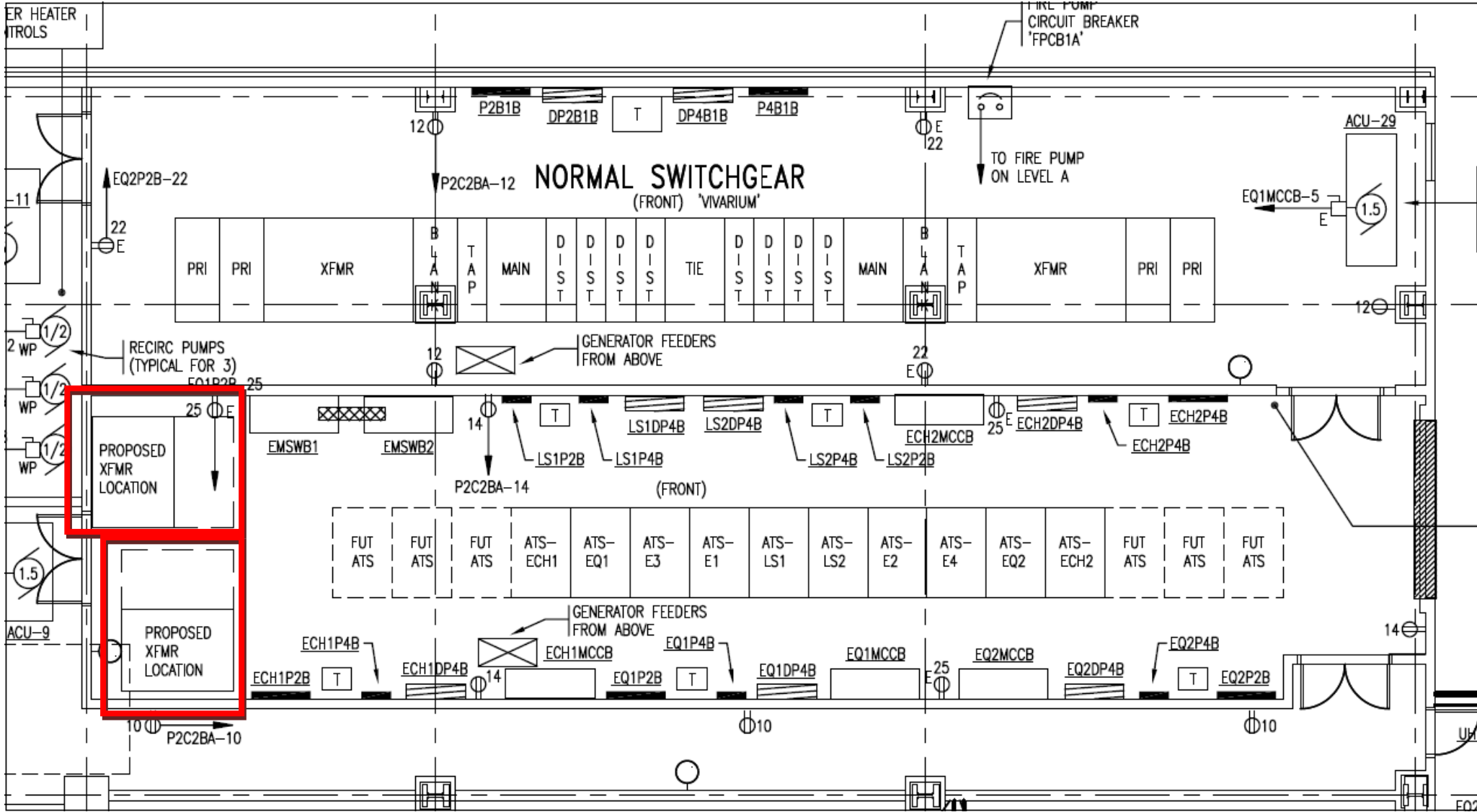
http://www.mc2-ice.com/support/estref/popular_conversion_files/electrical/insulated_conductors.html

Existing System



Proposed System





Dry-Type Transformers

Product Offering

- VPI, VPE, RESIBLOC®, Cast
- 113 kVA – 25 MVA
- Up to 46 kV, 150 kV BIL primary
- Up to 15 kV secondary

Standards

- ANSI C57.12.01/C57.12.91
- UL® available
- Seismic Zone 4 certification

Industry Applications

- Commercial and institutional
- Industrial users (petrochemical, oil & gas, pulp & paper/forest)
- Utilities



General Description

VPI/VPE Dry-Type Transformers

Application

The Eaton's Cutler-Hammer VPI and VPE transformers are custom designed dry-type power transformers which give environmental protection, for both indoor and outdoor applications. The transformers are explosion resistant, fire resistant, non-polluting to the environment, and ideally suitable for use in coordinated unit substations. Typical applications of VPI/VPE transformers are:

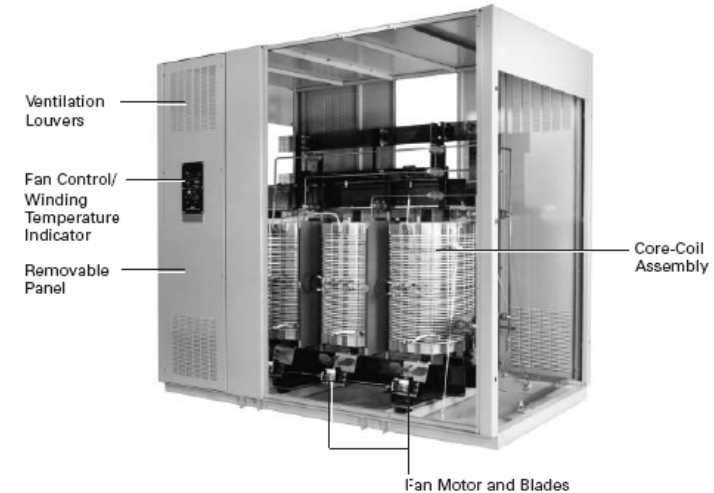
- Schools, hospitals, shopping centers.
- High-rise buildings.
- Industrial environments.

Benefits

- Custom design flexibility to meet special customer needs and applications.
- Computerized loss-evaluated designs for specific customer load and evaluation criteria.
- Environmental protection.
- Low maintenance.
- High short circuit strength.
- ANSI short time overload capability.
- Aluminum or copper windings.
- Available in NEMA 1, 2 and 3R enclosures.
- Economical.

Ratings

- 112.5 kVA – 3,750 kVA.
- Primary voltages: 600 V – 35 kV.
- Primary BIL: up to 150 kV.
- Secondary voltages: 120 V – 15 kV.
- Secondary BIL: up to 75 kV.
- Temperature rise: 80/115/150°C.



Dry-Type Substation Transformer

Design and Technology

The dry-type transformers are custom designed and manufactured with coils insulated with 220°C Class H Nomex®, insulation system. Environmental protection is provided by vacuum pressure impregnation with polyester resin (VPI). Enhanced environmental protection is available through the use of silicone resin encapsulation (VPE). The VPE process provides 4-cycle enhanced environmental protection. The entire core and coil assembly is vacuum pressure encapsulated with a silicone resin per MIL-1-24092. Both systems are superior to the conventional dry-type technology known as "Dip and Bake." Both resin types, and Nomex, insulation system are 220°C Class H rated. Transformers with Class H insulation are suitable for use up to 150°C average rise over a maximum ambient temperature of 40°C, not to exceed 30°C average for any 24-hour period. Other temperature rise options are 80°C and 115°C, which allow the transformer to be overloaded up to 150°C rise.

Taps are provided on the central section of the HV coil face. Taps are accessed by removing enclosure panels, and taps are changed by moving the flexible bolted links from one connecting point to the other. To simplify these changes, the connection points are clearly identified.

Material used for cores is non-aging, cold rolled, high permeability, grain-oriented silicone steel. Cores are constructed with step lap mitered joints and are rigidly braced to reduce sound levels and losses in the finished product.

To reduce the transfer of noise to the case, the core is mounted on neoprene rubber vibration dampeners. The core is electrically grounded by means of a flexible ground braid.

The enclosure has removable panels for access to taps and for core and coil inspection. The complete case can be removed and knocked down to reduce size and weight for rigging into tight locations.

VPI and VPE Ventilated Dry-Type

Table 14.0-22. Aluminum Windings, Standard Design, Delta-Wye, 60 Hz, Indoor, 600 Volt LV Class at 10 kV BIL, Indoor ①

kVA	HV, kV	HV BIL, kV ②	Dimensions in Inches (mm)			Weight Lbs. (kg)	kVA	HV, kV	HV BIL, kV ②	Dimensions in Inches (mm) ③			Weight Lbs. (kg)
			H _{TX}	W _{TX}	D _{TX}					H _{TX}	W _{TX}	D _{TX}	
150°C Rise						80° or 115°C Rise							
300	5	60	90 (2286.0)	78 (1981.2)	60 (1524.0)	3200 (1453)	300	5	60	90 (2286.0)	78 (1981.2)	60 (1524.0)	4000 (1816)
15	15	95	90 (2286.0)	84 (2133.6)	60 (1524.0)	3600 (1634)	15	15	95	90 (2286.0)	90 (2286.0)	60 (1524.0)	5000 (2270)
27	27	125	102 (2590.8)	90 (2286.0)	66 (1676.4)	4000 (1816)	27	27	125	102 (2590.8)	96 (2438.4)	66 (1676.4)	6000 (2724)
38	38	150	102 (2590.8)	102 (2590.8)	68 (1727.2)	4500 (2043)	38	38	150	102 (2590.8)	108 (2743.2)	66 (1676.4)	6500 (2951)
500	5	60	90 (2286.0)	78 (1981.2)	60 (1524.0)	4400 (1998)	500	5	60	90 (2286.0)	84 (2133.6)	60 (1524.0)	5200 (2361)
15	15	95	90 (2286.0)	90 (2286.0)	60 (1524.0)	4600 (2088)	15	15	95	90 (2286.0)	96 (2438.4)	60 (1524.0)	5800 (2633)
27	27	125	102 (2590.8)	102 (2590.8)	66 (1676.4)	5000 (2270)	27	27	125	102 (2590.8)	102 (2590.8)	66 (1676.4)	7000 (3178)
38	38	150	102 (2590.8)	114 (2895.6)	68 (1727.2)	5500 (2497)	38	38	150	102 (2590.8)	108 (2743.2)	68 (1727.2)	7500 (3405)
750	5	60	90 (2286.0)	84 (2133.6)	60 (1524.0)	5500 (2497)	750	5	60	90 (2286.0)	90 (2286.0)	66 (1676.4)	6200 (2815)
15	15	95	90 (2286.0)	96 (2438.4)	66 (1676.4)	6200 (2815)	15	15	95	90 (2286.0)	102 (2590.8)	66 (1676.4)	7000 (3178)
27	27	125	102 (2590.8)	114 (2895.6)	68 (1727.2)	6500 (2951)	27	27	125	102 (2590.8)	114 (2895.6)	72 (1828.8)	8000 (3632)
38	38	150	102 (2590.8)	114 (2895.6)	72 (1828.8)	7000 (3178)	38	38	150	102 (2590.8)	114 (2895.6)	78 (1981.2)	8500 (3859)
1000	5	60	90 (2286.0)	84 (2133.6)	66 (1676.4)	6300 (2860)	1000	5	60	90 (2286.0)	90 (2286.0)	66 (1676.4)	7900 (3541)
15	15	95	90 (2286.0)	96 (2438.4)	66 (1676.4)	7400 (3360)	15	15	95	90 (2286.0)	102 (2590.8)	66 (1676.4)	8750 (3972)
27	27	125	112 (2844.8)	120 (3048.0)	68 (1727.2)	7500 (3405)	27	27	125	112 (2844.8)	120 (3048.0)	72 (1828.8)	9500 (4313)
38	38	150	112 (2844.8)	120 (3048.0)	78 (1981.2)	8000 (3632)	38	38	150	112 (2844.8)	126 (3200.4)	78 (1981.2)	10,000 (4540)
1500	5	60	90 (2286.0)	84 (2133.6)	66 (1676.4)	8200 (3723)	1500	5	60	90 (2286.0)	96 (2438.4)	66 (1676.4)	9500 (4313)
15	15	95	90 (2286.0)	96 (2438.4)	66 (1676.4)	9300 (4222)	15	15	95	102 (2590.8)	108 (2743.2)	66 (1676.4)	10,500 (4767)
27	27	125	112 (2844.8)	126 (3200.4)	68 (1727.2)	10,000 (4540)	27	27	125	112 (2844.8)	132 (3352.8)	78 (1981.2)	11,000 (4994)
38	38	150	120 (3048.0)	132 (3352.8)	78 (1981.2)	10,500 (4767)	38	38	150	112 (2844.8)	132 (3352.8)	78 (1981.2)	11,500 (5221)
2000	5	60	90 (2286.0)	96 (2438.4)	66 (1676.4)	9400 (4268)	2000	5	60	90 (2286.0)	102 (2590.8)	66 (1676.4)	12,000 (5448)
15	15	95	90 (2286.0)	108 (2743.2)	66 (1676.4)	10,500 (4767)	15	15	95	102 (2590.8)	108 (2743.2)	66 (1676.4)	13,000 (5902)
27	27	125	120 (3048.0)	132 (3352.8)	72 (1828.8)	12,000 (5448)	27	27	125	120 (3048.0)	138 (3505.2)	78 (1981.2)	13,200 (5993)
38	38	150	124 (3149.6)	132 (3352.8)	78 (1981.2)	12,500 (5675)	38	38	150	120 (3048.0)	138 (3505.2)	78 (1981.2)	13,500 (6129)
2500	5	60	90 (2286.0)	102 (2590.8)	66 (1676.4)	11,700 (5312)	2500	5	60	90 (2286.0)	120 (3048.0)	66 (1676.4)	15,000 (6810)
15	15	95	102 (2590.8)	108 (2743.2)	66 (1676.4)	13,000 (5902)	15	15	95	112 (2844.8)	126 (3200.4)	66 (1676.4)	15,800 (7173)
27	27	125	130 (3302.0)	138 (3505.2)	78 (1981.2)	14,500 (6583)	27	27	125	130 (3302.0)	144 (3657.6)	78 (1981.2)	16,000 (7264)
38	38	150	130 (3302.0)	144 (3657.6)	78 (1981.2)	15,000 (6810)	38	38	150	130 (3302.0)	150 (3810.0)	78 (1981.2)	16,500 (7491)
3000	5	60	102 (2590.8)	108 (2743.2)	66 (1676.4)	15,000 (6810)	3000	5	60	102 (2590.8)	126 (3200.4)	66 (1676.4)	17,000 (7718)
15	15	95	112 (2844.8)	120 (3048.0)	66 (1676.4)	16,000 (7264)	15	15	95	112 (2844.8)	144 (3657.6)	66 (1676.4)	18,000 (8172)
27	27	125	120 (3048.0)	144 (3657.6)	78 (1981.2)	18,000 (8172)	27	27	125	130 (3302.0)	144 (3657.6)	78 (1981.2)	20,000 (9080)
38	38	150	140 (3556.0)	150 (3810.0)	78 (1981.2)	19,000 (8626)	38	38	150	140 (3556.0)	150 (3810.0)	78 (1981.2)	22,000 (9988)
3750	5	60	102 (2590.8)	114 (2895.6)	66 (1676.4)	16,000 (7264)	3750	5	60	102 (2590.8)	126 (3200.4)	66 (1676.4)	18,000 (8172)
15	15	95	112 (2844.8)	120 (3048.0)	66 (1676.4)	17,000 (7718)	15	15	95	112 (2844.8)	144 (3657.6)	66 (1676.4)	19,000 (8626)
27	27	125	125 (3175.0)	144 (3657.6)	78 (1981.2)	19,000 (8626)	27	27	125	130 (3302.0)	150 (3810.0)	78 (1981.2)	22,000 (9988)
38	38	150	120 (3048.0)	150 (3810.0)	78 (1981.2)	21,000 (9534)	38	38	150	140 (3556.0)	150 (3810.0)	78 (1981.2)	24,000 (10,896)

① For outdoor base construction, add 12 inches (304.8 mm) to height and 6 inches (152.4 mm) to width and depth. Roof overhangs 8.5 inches (215.9 mm) front and rear.

② 30 kV BIL is standard for 5 kV class; 60 kV BIL is available as an option. 60 kV BIL is standard for 15 kV class; 95 kV BIL is available as an option.

Note: Smaller dimensions/weights may be available, refer to Eaton.

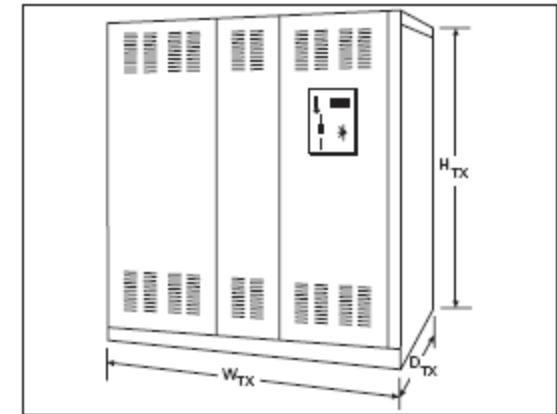


Figure 14.0-14. Indoor Ventilated Enclosure (NEMA 1 Construction)

Dimensions for estimating purposes only.