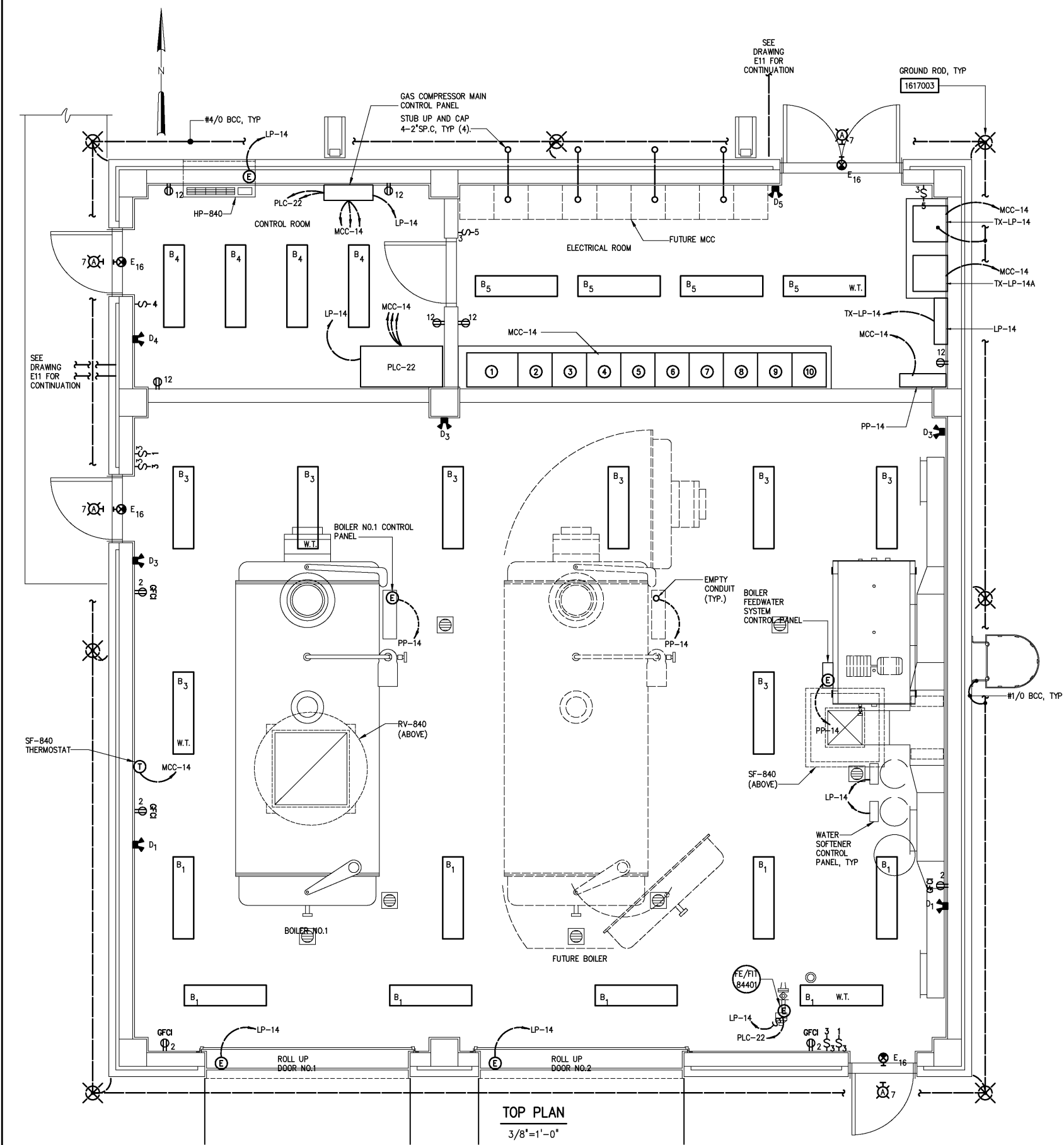


NOTES:

1. CONTRACTOR SHALL PROVIDE EMPTY CONDUIT FROM PP-14 TO LOCAL CONTROL PANEL LOCATED ON BOILER AND CAP FOR FUTURE ELECTRICAL CONNECTIONS.



480 VOLTS 3ø, 3 WIRE			PP-14										TYPE: MOUNT: SURFACE		
			MAIN BKR 225 A 3 P												
DESCRIPTION	WIRE	CKT BKR			VOLT AMPERE			VOLT AMPERE			CKT BKR			WIRE	DESCRIPTION
		TRIP	POLE	NO	#A	#B	#C	#A	#B	#C	NO	POLE	TRIP		
BOILER NO.1 CONTROL PANEL	1	20	3	1 3 5	3000	3000	3000	500	500	500	2 3 4 6	3	20	1	MOV 80201 & MOV 80202
FUTURE BOILER LOCAL CONTROL PANEL (CONDUIT ONLY)	1	20	3	7 9 11				750	750	750	8 10 12	3	20	1	MOV 80205, MOV 80206, & MOV 80207
MOV 80203 & MOV 80204	1	20	3	13 15 17	500	500		1000	1000	1000	14 16 18	3	20	1	BOILER FEEDWATER SYSTEM CONTROL PANEL
DECANT PUMPS NO. 3 & 4	5	20	3	19 21 23	3000	3000					20 22 24	3	20	1	SPARE
SPARE	1	20	3	25 27 29				3000	3000	3000	26 28 30	3	30	5	DECANT PUMPS NO. 1 NO.2, & NO.5
SPARE		20	3	31 33 35							32 34 36	3	30		SPARE
SPARE		30	3	37 39 41							38 40 42	3	20		SPARE
NEMA 12 TVSS		TOTAL			6500	6500	6500	5250	5250	5250	TOTAL				
		PHASE TOTAL						TOTAL LOAD							
					11750	11750	11750	35250							

LP-14												TYPE: MOUNT: SURFACE					
120/208 VOLTS 3ø, 4 WIRE						MAIN BKR 100 A 3 P											
DESCRIPTION	WIRE	CKT BKR			VOLT AMPERE			VOLT AMPERE			CKT BKR			WIRE	DESCRIPTION		
		TRIP	POLE	NO	#A	#B	#C	#A	#B	#C	NO	POLE	TRIP				
BOILER BLDG. LIGHTING	3	20	1	1	800			900			2	1	20	3	RECEPTACLES		
BOILER BLDG. LIGHTING	3	20	1	3		800			400		4	1	20	3	CONTROL ROOM LIGHTS		
ELEC ROOM LIGHTING	3	20	1	5			800			500	6	1	20	3	WASTE GAS BURNER C.P. NO.2		
OUTSIDE LIGHTING	3	20	1	7	200			100			8	1	20	3	FE/FIT 84401		
WASTE GAS BURNER C.P. NO.1	3	20	1	9		500			200		10	1	20	3	WATER SOFTENERS		
FE/FIT 80441 & 80442	3	20	1	11			200			800	12	1	20	3	ELEC/CONTROL ROOM RECEPTACLES		
HP-840	4	30	2	13	1000			500			14	1	20	3	PLC-22		
				15		1000			100		16	1	20	3	EMERGENCY EXIT LIGHTS		
MANHOLE MH2 SUMP PUMP	3	20	1	17			500			1000	18	1	20	3	ROLL UP DOOR NO.1		
GAS COMPRESSOR MAIN CNTRL PNL	3	20	1	19	200			1000			20	1	20	3	ROLL UP DOOR NO.2		
SPARE	1	20	1	21		0			0		22	1	20	1	SPARE		
SPARE	1	20	1	23			0			0	24	1	20	1	SPARE		
SPARE	1	20	1	25	0			0			26	1	20	1	SPARE		
SPARE	1	20	1	27		0			0		28	1	20	1	SPARE		
SPARE	1	20	1	29			0			0	30	1	20	1	SPARE		
SPARE	1	20	1	31	0			0			32	1	20	1	SPARE		
SPARE	1	20	1	33		0			0		34	1	20	1	SPARE		
SPARE	1	20	1	35			0			0	36	1	20	1	SPARE		
SPARE	1	20	1	37	0			0			38	1	20	1	SPARE		
SPARE	1	20	1	39		0			0		40	1	20	1	SPARE		
SPARE	1	20	1	41			0			0	42	1	20	1	SPARE		
NEMA 12 TVSS		TOTAL				2000	2300	1500	2500	700	2300	TOTAL					
		PHASE TOTAL				TOTAL LOAD											
						4500	3000	3700	11300								

CONDUIT AND WIRE LEGEND	
(NUMBERS REFERENCE THIS SHEET ONLY)	
NO.	DESCRIPTION
1	3#12, #12G, 3/4"C
2	3#10, #10G, 3/4"C
3	2#12, #12G, 3/4"C
4	2#10, #10G, 3/4"C
5	3#8, #8G, 1"C

			DESIGNED _____ BRL		RECORD DRAWING THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER. THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY GERALD J. RATASKY, 026535. THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT.										HAZEN AND SAWYER Environmental Engineers & Scientists 4011 WestChase Blvd, Raleigh, North Carolina 27607				CITY OF ROANOKE VIRGINIA				REGIONAL WATER POLLUTION CONTROL PLANT PROCESS TRAIN IMPROVEMENTS				BOILER BUILDING ELECTRICAL PLAN AND PANEL SCHEDULES				THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.		DATE _____ MARCH 2004		H & S JOB NUMBER _____ 30788B	
			DRAWN _____ BRL																														CONTRACT NUMBER B		DRAWING NUMBER E840	
			CHECKED _____																																	
			PROJ. ENGR. _____ CMB		THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY RONALD L. TAYLOR, SEAL NO. 024649																															
3			ADDITIONAL 1		APRIL 2004		RLT																													
2			CONSTRUCTION		MAR 2004		RLT																													
1			REGULATORY APPROVAL		NOV 2003		RLT																													
NO.			ISSUED FOR		DATE		BY		APPROVED																											