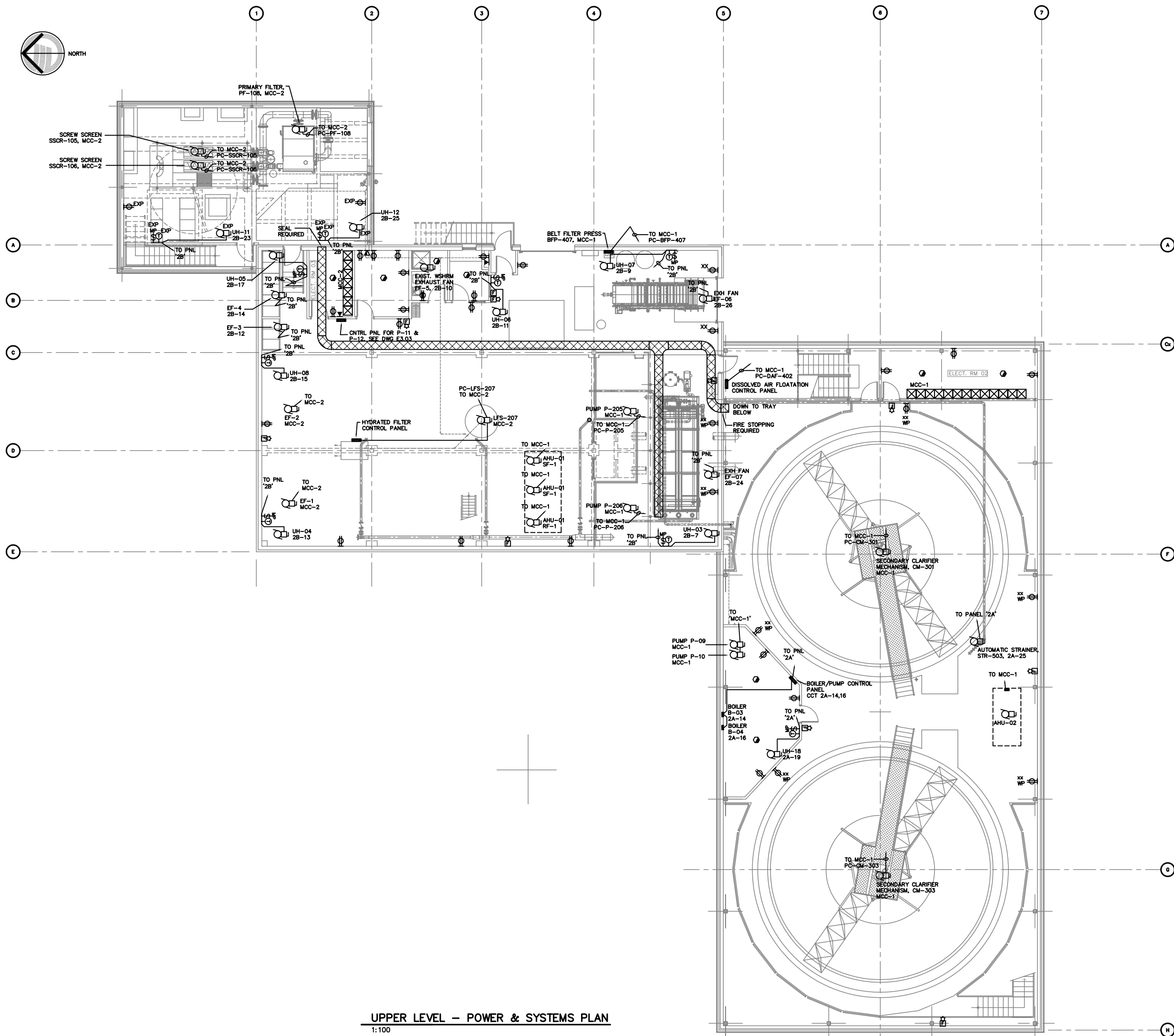
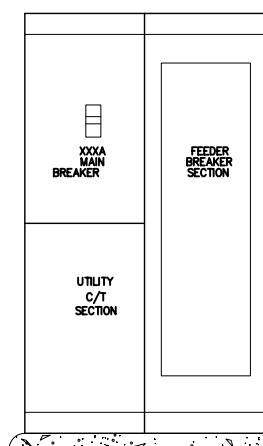
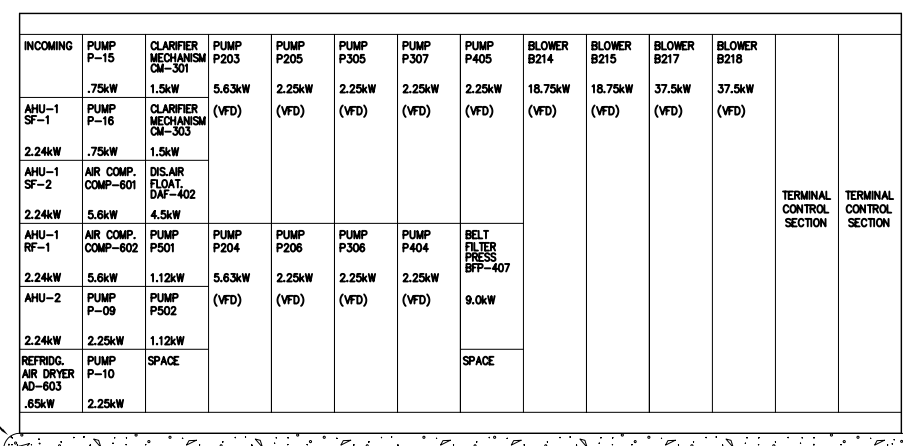




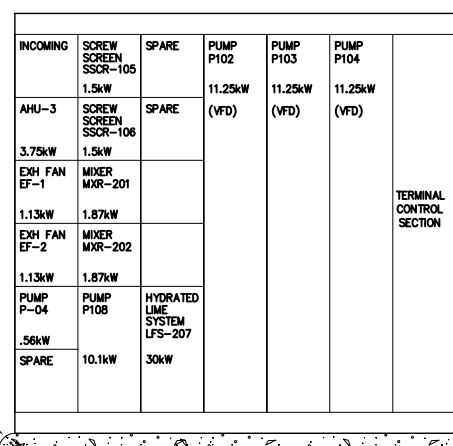
UPPER LEVEL - POWER & SYSTEMS PLAN
1:100



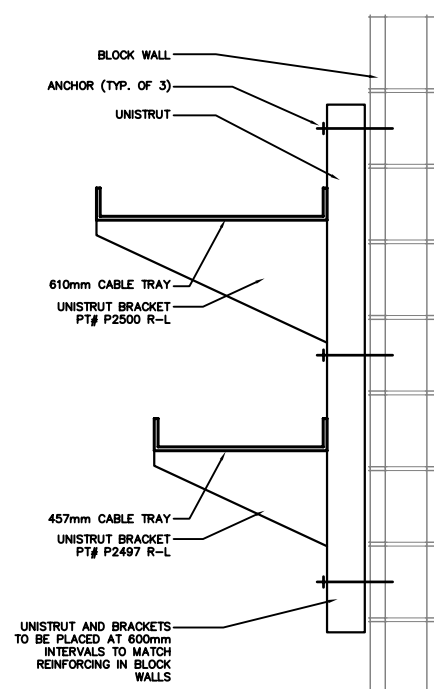
MDP ELEVATION DETAIL
N.T.S.



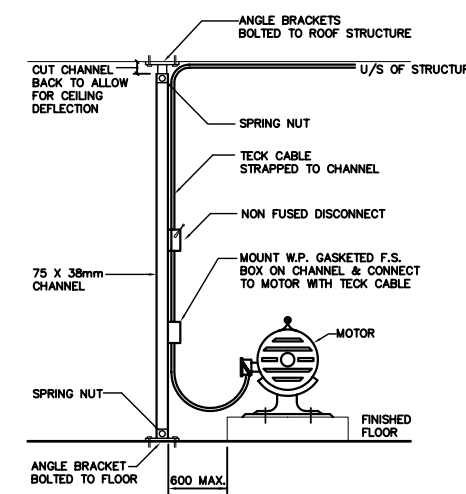
MCC-1 ELEVATION DETAIL
N.T.S.



MCC-2 ELEVATION DETAIL
N.T.S.



TYPICAL WALL MOUNTED TRAY DETAIL
N.T.S.



TYPICAL PROCESS MOTOR CONNECTION DETAIL
N.T.S.

PANEL 6A									
DESCRIPTION	KW	BKR	CIRCUIT NO.	BKR	KW	DESCRIPTION			
LIGHTING CLARIFIER BLDG (LOWER)	IPISA	1	2	IPISA		EXT. LIGHTS			
LIGHTING CLARIFIER BLDG (UPPER)	IPISA	3	4	IPISA		EXT. LIGHTS			
LIGHTING CLARIFIER BLDG (UPPER)	IPISA	5	6	IPISA		EXT. LIGHTS			
LIGHTING BLDG (LOWER)	IPISA	7	8	IPISA		UNSWITCHED LIGHTING			
LIGHTING BLDG (UPPER)	IPISA	9	10	IPISA		UNSWITCHED LIGHTING			
LIGHTING BLDG (UPPER)	IPISA	11	12	IPISA		UNSWITCHED LIGHTING			
LIGHTING BLDG (UPPER)	IPISA	13	14	IPISA		UNSWITCHED LIGHTING			
LIGHTING BLDG (UPPER)	IPISA	15	16	IPISA		UNSWITCHED LIGHTING			
			17	18					
			19	20					
			21	22					
			23	24					
			25	26					
			27	28					
			29	30	IPISA	SPARE			
			31	32	IPISA	SPARE			
			33	34	IPISA	SPARE			
SPARE	IPISA	35	36	IPISA	SPARE				
SPARE	IPISA	37	38	39					
SPARE	IPISA	40	41			TRANSFORMER T01			
SPARE	IPISA	41	42	70A					
TOTAL						TOTAL			
MAINS: 225A		VOLTS:		347/600V					
MOUNTING: SURFACE		LOCATION:		ELECT RM 01					
		FED FROM:		400A EM COP					
		ENTER AT:		TOP					

PANEL 6B									
DESCRIPTION	KW	BKR	CIRCUIT NO.	BKR	KW	DESCRIPTION			
XX		IPISA	1	2	IPISA				
XX			3	4					
			5	6					
			7	8					
			9	10					
			11	12					
			13	14					
			15	16					
			17	18					
			19	20					
			21	22					
			23	24					
			25	26					
			27	28					
			29	30	IPISA		SPARE		
			31	32	IPISA		SPARE		
			33	34	IPISA		SPARE		
SPARE		IPISA	35	36	IPISA		SPARE		
SPARE		IPISA	37	38	39				
SPARE		IPISA	39	40			TRANSFORMER T2		
SPARE		IPISA	41	42	50A				
TOTAL						TOTAL			
MAINS: MOUNTING: SURFACE				VOLTS: 347/600V		ELECT RM. 03			
				FED FROM: MDP					
				ENTER AT: TOP					

LVRC-6EMA LOW VOLTAGE RELAY CABINET									
SWITCH	CIRCUIT	RELAY	RM #						
a	6EMA-1	1	CLARIFIER BLDG - LOWER LEVEL						
b	6EMA-1	2	ELECTRICAL RM. 01 (LOWER LEVEL)						
c	6EMA-3	3	CLARIFIER BLDG - UPPER LEVEL						
d	6EMA-5	4	CLARIFIER BLDG - UPPER LEVEL						
e	6EMA-3	5	CLARIFIER MECH RM.						
f	6EMA-3	6	ELECTRICAL RM. 02 (UPPER LEVEL)						
g	6EMA-7	7	BIOLOGICAL BLDG - LOWER LEVEL						
h	6EMA-7	8	BIOLOGICAL BLDG - BLOWER RM						
i	6EMA-7	9	BIOLOGICAL BLDG - MECH. RM.						
j	6EMA-9	11	HEADROOM BLDG - LOWER LEVEL						
k	6EMA-11	12	BIOLOGICAL BLDG - UPPER LEVEL						
l	6EMA-13	13	BIOLOGICAL BLDG - UPPER LEVEL						
m	6EMA-13	14	BIOLOGICAL BLDG - ELEC. RM. 03						
n	6EMA-13	15	BIOLOGICAL BLDG - LAB						
o	6EMA-13	16	BIOLOGICAL BLDG - WASHRM						
p	6EMA-13	17	BIOLOGICAL BLDG - OFFICE						
q	6EMA-15	18	HEADWORKS BLDG - UPPER LEVEL						
r	-	19	SPARE						
r	-	20	SPARE						

PANEL 2A									
DESCRIPTION	KW	BKR	CIRCUIT NO.	BKR	KW	DESCRIPTION			
UH-10-elec rm 01	IPISA	1	2	IPISA		PUMP P-01-boiler rm.			
UH-10-elec rm 01	IPISA	3	4	IPISA		PUMP P-02-boiler rm.			
UH-10-elec rm 01	IPISA	5	6	IPISA		PUMP P-03-boiler rm.			
UH-10-elec rm 01	IPISA	7	8	IPISA		SPK-1-battery pack #1			
UH-10-elec rm 01	IPISA	9	10	IPISA		SPK-2-battery pack #2			
UH-10-elec rm 01	IPISA	11	12	IPISA		SPK-3-battery pack #3			
UH-10-elec rm 01	IPISA	13	14	2P		BOILER B-03/804			
UH-10-elec rm 01	IPISA	15	16	1P		(boiler rm)			
UH-10-elec rm 01	IPISA	17	18	2P		SUMP PUMPS P-13 & P-14			
UH-10-elec rm 01	IPISA	19	20	20A		(boiler rm)			
SPARE	IPISA	21	22	IPISA		CHX-01 main entrance			
SPARE	IPISA	23	24	IPISA		RECEPT - clarifier			
STR-303-clarifier rm	IPISA	25	26	IPISA		RECEPT - clarifier			
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PANEL 2B									
DESCRIPTION	KW	BKR	CIRCUIT NO.	BKR	KW	DESCRIPTION			
UH-10-headworks lower	IPISA	1	2	2P		SUMP PUMP P7/B			
SUMP PUMP P11/12		2P	3	4	30A	(cabinets rm.)			
(headworks lower)	30A	5	6	IPISA		UH-02-bio area, lower			
UH-03-bio area -upper	IPISA	7	8	IPISA		UH-01-coke bin rm.			
UH-07-existing press rm.	IPISA	9	10	IPISA		EF-5, washroom fan			
UH-06-bio area-upper	IPISA	11	12	IPISA		EF-3, bio area, upper			
UH-04-bio area-upper	IPISA	13	14	IPISA		EF-3, bio area, upper			
UH-08-bio area-upper	IPISA	15	16	IPISA		RECEPT - headworks			
UH-05-bio area-upper	IPISA	17	18	IPISA		RECEPT - headworks			
UH-09-headworks lower	IPISA	19	20	IPISA		PUMP P-05			
UH-11-headworks upper	IPISA	21	22	IPISA		PUMP P-06			
UH-1-headworks upper	IPISA	23	24	IPISA		UH-12-bio area, upper			
UH-12-headworks upper	IPISA	25	26	IPISA		EF-4, bio area, upper			
		27	28						
		29	30						
		31	32						
		33	34						
SPARE	IPISA	35	36	IPISA		SPARE			
SPARE	IPISA	37	38	IPISA		SPARE			
SPARE	IPISA	39	40	IPISA		SPARE			
SPARE	IPISA	41	42	IPISA		SPARE			
TOTAL						TOTAL			
MAINS: 225A MOUNTING: SURFACE				VOLTS: 120/208V LOCATION: RY FEED FROM: XFOR T32 ENTER AT: TOP		ELECT RM: 03			