

STEAM BLOWDOWN HEAT RECOVERY SYS SCHEDULE						
ITEM	MANUFACTURER	MODEL	LOCATION	GEN	MADE-UP (GEN)	AT MAX GEN
BHC-1	CLEVER BROOKS	BHC-14	BOILER PLANT	14	130	10.0 PSIG
NOTES: 1. PROVIDE PACKAGED BLOWDOWN HEAT RECOVERY SYSTEM WITH ASME CODE STAMPED VESSEL FOR 250 PSIG AT 400 DEG F WITH COMPONENTS.						

STEAM BLOWDOWN SEPARATOR SCHEDULE						
ITEM	MANUFACTURER	MODEL	LOCATION	STEAM BLOW-DOWN	DIAM	HEI
SB-1	CLEVER BROOKS	CYCLOC	BOILER PLANT	2-1/2"	6"	2"
NOTES: 1. PROVIDE WITH SEPARATOR FOR STEAM AND AIR/WATER SEPARATION WATER AT 100PSIG.						

STEAM BOILER SCHEDULE											
ITEM	MANUFACTURER	MODEL	LOCATION	TYPE	OPERATING PRESSURE (PSIG)	HEI (FT)	DIAM (IN)	DRUM DIA (IN)	DRUM HT (IN)	DRUM WT (LBS)	REMARKS
B-1	CLEVER BROOKS	DB-14-5500	BOILER PLANT	FIRETUBE	125 PSIG	38.300	38.423	5.500	227	295	44319
B-2	CLEVER BROOKS	DB-14-5500	BOILER PLANT	FIRETUBE	125 PSIG	38.300	38.423	5.500	227	295	44319
B-3	CLEVER BROOKS	DB-14-5500	BOILER PLANT	FIRETUBE	125 PSIG	38.300	38.423	5.500	227	295	44319
NOTES: 1. PROVIDE WITH LOW LOW SW 20 PSIG - 75 PSIG FUEL FUEL VALVE / 1/2" FUEL OIL FORCED DRAFT BURNERS WITH A MAX TURN DOWN OF 8 TO 1 GAS AND 6 TO 1 OIL. 2. PROVIDE WITH LOW LOW SW 20 PSIG - 75 PSIG FUEL FUEL VALVE / 1/2" FUEL OIL FORCED DRAFT BURNERS WITH A MAX TURN DOWN OF 8 TO 1 GAS AND 6 TO 1 OIL. 3. BOILER PERFORMANCE BASED WITH INDICATED FUEL GAS RESERVIATION. 4. REMOVE THE NEW AND OLD METERS. 5. REMOVE THE OLD METERS. 6. REMOVE THE OLD METERS.											

DUPLIX CONDENSATE PUMP SCHEDULE											
ITEM	MANUFACTURER	MODEL	LOCATION	TYPE	HP	RESERVE	CFM	HT (FT)	HT (FT)	HT (FT)	REMARKS
CP-1	BELL & GOSSETT	1300R75-50	BOILER PLANT	DRIFTER	75	50 PSIG	150	400	3	60	NOTES 1-4
CP-2	BELL & GOSSETT	2500R125-50	EXHAUST BOILER PLANT	DRIFTER	125	50 PSIG	450	450	3	60	NOTE 5
CP-3	BELL & GOSSETT	2500R125-50	EXHAUST BOILER PLANT	DRIFTER	125	50 PSIG	450	450	3	60	NOTE 5
CP-4	BELL & GOSSETT	2500R125-50	EXHAUST BOILER PLANT	DRIFTER	125	50 PSIG	450	450	3	60	NOTE 5
NOTES: 1. PROVIDE UNIT WITH WATER LEVEL GAUGE AND SHUT-OFF VALVE. 2. NUT BOLT STRAINER. 3. PROVIDE WITH CONDENSATE CONTROL PANEL WITH ELECTRIC ALTERNATOR FOR DUPLIX PUMP AND ALL SWIRTERS AND DISCONNECTS. 4. REQUIRED FOR OPERATION. 5. CP-3 & 4 LOCATED IN BOIL SUBSTATION MECHANICAL ROOM - OWNED UNDER CHARLES STREET PROJECT.											

DEAERATOR SCHEDULE											
ITEM	MANUFACTURER	MODEL	TYPE	NUMBER	OUTLET CAPACITY (LBS/HR)	STORAGE CAPACITY (GALLONS)	STEAM REQUIREMENTS (PSIG)	OVERALL SIZE (INCHES)	OPERATING WEIGHT	REMARKS	
DA-1	CLEVER BROOKS	SA-100	SINGLE TANK	2	100,000	10	10	200	72	94.5	
NOTES: 1. HORIZONTAL CONDENSATE TANK DESIGN BASED ON STEAMWATER CONDENSATE SINGLE TANK WITH STANDARD TYPICAL TANK WITH FRESH AIR CONDENSATION, CAPACITY TO 50 PSIG. 2. PROVIDE WITH CONDENSATE CONTROL PANEL WITH ELECTRIC ALTERNATOR FOR DUPLIX PUMP AND ALL SWIRTERS AND DISCONNECTS. 3. PROVIDE WITH CONDENSATE CONTROL PANEL WITH ELECTRIC ALTERNATOR FOR DUPLIX PUMP AND ALL SWIRTERS AND DISCONNECTS. 4. REQUIRED FOR OPERATION. 5. CP-3 & 4 LOCATED IN BOIL SUBSTATION MECHANICAL ROOM - OWNED UNDER CHARLES STREET PROJECT.											

EXPANSION JOINT SCHEDULE											
ITEM	MANUFACTURER	MODEL	LOCATION	COMPRESSION	EXTENSION	LD	OD	LENGTH	FLAT	WAVE	REMARKS
EP-1	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-2	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-3	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-4	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-5	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-6	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-7	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-8	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-9	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-10	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-11	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-12	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-13	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-14	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-15	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-16	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-17	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-18	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-19	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-20	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-21	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-22	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-23	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-24	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-25	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-26	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-27	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-28	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-29	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-30	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-31	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-32	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-33	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-34	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-35	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-36	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-37	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-38	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-39	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-40	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-41	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-42	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-43	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-44	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-45	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-46	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-47	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-48	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-49	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-50	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-51	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-52	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-53	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-54	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-55	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-56	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-57	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-58	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-59	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-60	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-61	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-62	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-63	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-64	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-65	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-66	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-67	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-68	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-69	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-70	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-71	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-72	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-73	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-74	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-75	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-76	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-77	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-78	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	
EP-79	HPSMAN	3502-280-4	WANNICE	4"	1"	1/2"	27.25"	33.5 F	500 PSIG	2028	