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REVISIONS

APPROVAL



REVIEWED IN ACCORDANCE WITH
THE REQUIREMENTS OF T24, CCR
APPROVED

JAN 28 2010

Office of Statewide Health
Planning & Development
FACILITIES DEVELOPMENT DIVISION

PROJECT NAME

CHILDREN'S HOSPITAL
OF ORANGE COUNTY

455 S. Main St.
Orange, CA 92868-3874

TOWER II



PROJECT NUMBER

12011.00
Increment #7

OSHPD - PROJECT NUMBER

IL 072072-30
NONE
ISSUE

OSHPD PERMIT

DATE

01/27/2010

SCALE

DRAWING TITLE

EQUIPMENT SCHEDULES

DRAWING NUMBER

M0.05

STEAM PRESSURE REGULATOR SCHEDULE

SYMBOL	MANUFACTURER	SERVICE	TYPE	VALVE SIZE	LOCATION	INITIAL STEAM PRESS (PSIG)	DELIVERY PRESS. PSIG	CAPACITY LBS/HR	WEIGHT	ANCHORAGE DETAIL	REMARKS
PRV 1A	ARMSTRONG	TOWER II	-	2-1/2"	BASEMENT CHOC NORTH	110	80	9,167	1000	6/M10.06	
PRV 1B	ARMSTRONG	TOWER II	-	2-1/2"	BASEMENT CHOC NORTH	110	80	9,167	1000	6/M10.06	
PRV 1C	ARMSTRONG	TOWER II	-	2-1/2"	BASEMENT CHOC NORTH	110	80	9,167	1000	6/M10.06	
PRV 2A	ARMSTRONG	NORTH TOWER	-	2"	BASEMENT CHOC NORTH	110	15 11	5,000	1000	5/M10.06	
PRV 2B	ARMSTRONG	NORTH TOWER	-	2 1/2"	BASEMENT CHOC NORTH	110	RFH 2757 15 11	10,000	1000	5/M10.06	
PRV 3A	ARMSTRONG	HEAT EXCHANGERS	GP-2000	2 1/2"	BASEMENT TOWER II	80	30	10,000	1000	5/M10.06	
PRV 3B	ARMSTRONG	HEAT EXCHANGERS	GP-2000	3"	BASEMENT TOWER II	80	30	11,000	1000	5/M10.06	
PRV 4A	JORDAN VALVE	CLEAN STEAM	MARK 60	2"	BASEMENT TOWER II	30	15	1,500	1000	5/M10.06	ALL STAINLESS STEEL
PRV 4B	JORDAN VALVE	CLEAN STEAM	MARK 60	3"	BASEMENT TOWER II	30	15	3,500	1000	5/M10.06	ALL STAINLESS STEEL
PRV 5	ARMSTRONG	MEDIUM PRESS. STEAM	GP-2000	1/2"	LEVEL 2 ROOM 2.035	80	50	200	50	1	

1 PART OF OVERHEAD PIPE SEISMIC SUPPORT

FLASH TANK SCHEDULE

ID NUMBER	LOCATION	SERVICE	CATALOG DATA		PEAK CAPACITY LB/HR	FLASH STEAM LBS/HR	OPERATING WEIGHT LBS	ANCHORAGE DETAIL	REMARKS
			COMPANY NAME	MODEL TYPE					
FT 1	BASEMENT	CSG AND HX	ARMSTRONG	AFT-16	21,000	1200	300	5/M10-03	

VENT CONDENSATE TANK SCHEDULE

ID NUMBER	LOCATION	SERVICE	CATALOG DATA		PEAK CAPACITY LB/HR	INLET PRESSURE PSIG	DISCHARGE PRESSURE PSIG	OPERATING WEIGHT LBS	REMARKS
			COMPANY NAME	MODEL TYPE					
VC 1	WITH FLASH TANK	FLASH STEAM HEAT RECOVERY	CANNON BOILER WORKS	VC-7	1200	5	0	110	SIZE FOR 14 GPM COLD WASHER TO RECOVER 1000 MBTUH, 3.5 PSI WATER PRESSURE DROP. ANCHOR DETAIL IS PART OF FLASH TANK FT-1

STEAM TRAP SCHEDULE

ID	LOCATION	SERVICE	CATALOG		TYPE	ORIFICE SIZE	PERFORMANCE		PIPE CONNECTION SIZE (IN)	OPERATION WEIGHT (LBS)	REMARKS
			MFG.	MODEL			MAX. CAPACITY (PSI)	MAX. CAPACITY (LB/HR)			
ST 1	STEAM PIPE DRIP LEGS	STEAM DRIP LEGS	ARMSTRONG	800	1B	7/64	100	600	3/4	5	USE MODEL 1800 FOR CLEAN STEAM SYSTEM
ST 2	HX-1&2	HX-1&2	SARCO	FT14-4.5	F&T	7/64	100	25,500			PART OF HX SYSTEM
ST 3	CSG-1&2	CSG-1&2	SARCO	FT14-4.5	F&T	7/64	100	25,500			PART OF HX CLEAN STEAM GENERATOR SYSTEM

EXPANSION TANK SCHEDULE

ID	LOCATION	SERVICE	CATALOG		TYPE	APPROXIMATE SYSTEM VOLUME GAL	SYSTEM TEMP RANGE (°F)		PRV FILL PRESSURE IN TANK PSIG	MAX. OPERATING PRESSURE PSIG	MIN. ACCEPT VOLUME GAL	DIMENSION		OPERT. WEIGHT (LBS)	ANCHOR. DETAIL	REMARKS
			MFG.	MODEL			MINIMUM	MAXIMUM				DIA (IN)	HGT (IN)			
ET 1	BASEMENT TOWER II HX ROOM	SPACE HEATING HOST WATER	B&G	B-2000	BLADDER TYPE	4000	60	180	60	80	530	48	84	5600	2/M10.03	

GENERATOR ROOM SOUND TRAP SCHEDULE

SYMBOL	IAC MODEL NUMBER	DESCRIPTION	FACE AREA (SF.)	MAX. DESIGN AIR FLOW (CFM)	FACE VELOCITY (FPM)	SILENCER SIZE, INCHES				MAX. PRESSURE DROP IN. W.G.	MAXIMUM SELF NOISE, SOUND POWER LEVEL							MINIMUM DYNAMIC INSERTION LOSS IN dB (at 2000 FPM/FACE VELOCITY) Octave Band Center Frequency							WEIGHT EACH (LBS)	ANCHORAGE
						QTY	WD	HT	L		db re 1 pico watt (at 2000 FPM, 4 sq. ft. trap area)															
										125	250	500	1000	2000	4000	63	125	250	500	1000	2000	4000	8000			
IST 1	5HS	INTAKE OUTSIDE AIR SOUND TRAP	400 (26'x16')	200,000	480	22	48	48	60	0.25	-	-	-	-	-	-	9	13	19	26	35	44	35	15	400	4/M10-08
						6	24	48	60	0.25	-	-	-	-	-	-	9	13	19	26	35	44	35	15	260	
EST 1	7HS	EXHAUST AIR SOUND TRAP	286 (18'-6"x16')	200,000	625	20	48	48	84	0.25	-	-	-	-	-	-	9	13	19	26	35	44	35	15	400	4/M10-08

GENERATOR ROOM MUFFLER FOR GENERATOR SCHEDULE

SYMBOL	CATALOG		DESIGN GAS FLOW (CFM)	MUFFLER NOMINAL SIZE			INLET CONNECTION		OUTLET CONNECTION		MAX. PRESSURE DROP IN. W.G.	MINIMUM DYNAMIC INSERTION LOSS IN dB (at 2000 FPMFACE VELOCITY) Octave Band Center Frequency								WEIGHT EACH (LBS)	ANCHORAGE	REMARKS
	MFG	MODEL		QTY	INSIDE DIAMETER	HEIGHT	QTY	INSIDE DIA.	QTY	INSIDE DIA.												
												63	125	250	500	1000	2000	4000	8000			
M 1&2	GT EXHAUST SYSTEM	401-C2 SERIES	15,136	2	84	27	2	14	2	14	8	32	38	41	39	38	37	38	1,675	8/M10.07	RATING SUPER CRITICAL SILENCERS 33-40 dBA. HEAVY DUTY STEEL DOUBLE SHELL CONSTRUCTION. STANDARD WITH 12% ₅₀ STEEL PLATE FLANGES. HIGH TEMPERATURE BLACK FINISH	