



LOUIS STOKES VA MEDICAL CENTER, CLEVELAND																								
STEAM TRAP MONITORING SYSTEM, INSULATION AND PIPING UPGRADES																								
STEAM TRAP TAG NO.	LOCATION	TRAP DRAWING REFERENCE NO.	AREA	TRAP TYPE	ELEV. AFF.	TRAP MODEL, MFG. & PIPE SIZE	P IN	EQUIPMENT SERVED	COND.	REMARKS	NO WORK REQUIRED	TRAP MONITOR	TRAP REPLACE/REPAIR	REMOVE TRAP & PIPING	REPAIR STEAM/LEAK	COLD STEAM DUCT ALT NO. 1	REPLACE COPPER UNIONS DUCT ALT NO. 2	SERVICE VACUUM BREAKERS	STRAINER	REPAIR ELBOWS/CONDENSATE PIPE	RELOCATE TRAPS TO OUTSIDE AREAS	REMOVABLE INSULATION JACKETS	HARD PIPE INSULATION	MISC.
371	BASMENT NEXT TO SHELL SPACE LABORATORY #K-16 EQUIPMENT ROOM	3-8-1	1	B	11	3/4" SPRINK FT-15	10	STEAM MAIN DRP	CO	STEAM TRAP B OK. (NEW TRAP) WHEN WORK, REPAIR STEAM TRAP WITH SPRINK #8004 REPAIR KIT. INSPECTED 8/7/12.	X													
372	BOILER ROOM FUEL TANK ROOM UNIT HEATER SOUTH OF TANK #2	3-8-1	1	F	14	3/4" SPRINK FT-30	10M	UNIT HEATER	CP	STEAM TRAP B COLD. SHOULD BE HOT (NEW TRAP). INSPECT CONTROL VALVE. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #FFPSA-30 FACE PLATE REPAIR KIT. ELEVATED CONDENSATE 4F. NO VACUUM BREAKER WITH MODULATED CONTROL. SHOULD INSTALL TUNSTALL VB-34 STEAM SERVICE VACUUM BREAKER AT COIL OUTLET. INSPECTED 8/7/12.			X			X								
373	BOILER ROOM FUEL TANK ROOM UNIT HEATER NORTH OF TANK #2 NE CORNER	3-8-1	1	F	14	3/4" SPRINK FT-30	10M	UNIT HEATER	OK	STEAM TRAP OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #FFPSA-30 FACE PLATE REPAIR KIT. ELEVATED CONDENSATE 4F. NO VACUUM BREAKER WITH MODULATED CONTROL. SHOULD INSTALL TUNSTALL VB-34 STEAM SERVICE VACUUM BREAKER AT COIL OUTLET. INSPECTED 8/7/12.								X						
374	BOILER ROOM FUEL TANK ROOM UNIT HEATER NORTH OF TANK #6	3-8-1	1	F	14	3/4" SPRINK FT-30	10M	UNIT HEATER	OK	STEAM TRAP OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #FFPSA-30 FACE PLATE REPAIR KIT. ELEVATED CONDENSATE 4F. NO VACUUM BREAKER WITH MODULATED CONTROL. SHOULD INSTALL TUNSTALL VB-34 STEAM SERVICE VACUUM BREAKER AT COIL OUTLET. INSPECTED 8/7/12.								X						
375	BOILER ROOM FUEL TANK ROOM O.E.M. DRP NORTH OF TANK #1	3-8-1	1	F	12	3/4" SPRINK FT-15	10	STEAM MAIN DRP	OK	STEAM TRAP OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #FFPSA-15 FACE PLATE REPAIR KIT. ROUND VALVED-OFF. INSPECTED 8/7/12.	X									X				
376	BOILER ROOM FUEL TANK ROOM UNIT HEATER SOUTH OF TANK #1	3-8-1	1	F	14	3/4" SPRINK FT-125	10M	UNIT HEATER	OK	STEAM TRAP OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #FFPSA-125 FACE PLATE REPAIR KIT. ELEVATED CONDENSATE 4F. NO VACUUM BREAKER WITH MODULATED CONTROL. SHOULD INSTALL TUNSTALL VB-34 STEAM SERVICE VACUUM BREAKER. INSPECTED 8/7/12.								X						
377	GROUND LEVEL BOILER ROOM WATER HEATER #1 SOUTH OF DRP	3-1-1	1	B	4	3/4" SPRINK B1H-15	65	STEAM MAIN DRP	OK	STEAM TRAP IS OK. (NEW TRAP) WHEN WORK, REPAIR STEAM TRAP WITH SPRINK #8004 REPAIR KIT. INSPECTED 8/8/12.		X												
378	GROUND LEVEL BOILER ROOM WATER HEATER #1 HEAT EXCHANGER	3-1-1	1	O	3	2" ORIFICE TRAP	15M	HEAT EXCHANGER	BTALK	REPAIR ORIFICE TRAP WITH TUNSTALL 2" TAFTS-15 FLOAT & THERMOSTATIC STEAM TRAP. 1" STEAM SERVICE VACUUM BREAKER LEAKS. REPLACE WITH TUNSTALL VB-12 STEAM SERVICE VACUUM BREAKER. INSPECTED 8/7/12.			X		X									
379	GROUND LEVEL BOILER ROOM WATER HEATER #2 HEAT EXCHANGER	3-1-1	1	O	3	2" ORIFICE TRAP	15M	HEAT EXCHANGER	CO	STEAM TRAP COLD OUT OF SERVICE. IF REQUIRED, REPLACE ORIFICE TRAP WITH TUNSTALL 2" TAFTS-15 FLOAT & THERMOSTATIC STEAM TRAP AND REPLACE 1/2" VACUUM BREAKER WITH TUNSTALL VB-12 STEAM SERVICE VACUUM BREAKER. INSPECTED 8/7/12.			X				X					X		
380	GROUND LEVEL BOILER ROOM WATER HEATER #2 SUPPLY DRP	3-1-1	1	D	4	REMOVED	55	STEAM MAIN DRP	CO	STEAM TRAP REMOVED. DISCONNECTED. INSPECTED 8/7/12.	X													
381	GROUND LEVEL BOILER ROOM NORTH ABOVE BRV FLOORS BY BOILER #1	3-1-1	1	B	14	3/4" SPRINK B1H-125	0	STEAM MAIN DRP	OK	STEAM TRAP IS OK. WHEN WORK, REPAIR STEAM TRAP WITH SPRINK #8004 REPAIR KIT. INSPECTED 8/7/12.	X													
382	GROUND LEVEL BOILER ROOM #1 BOILER	3-1-1	1	T	4	1/2" SPRINK 1250 ANGLE	115	STEAM MAIN DRP	LK	REPLACE DEFECTIVE STEAM TRAP WITH NEW 1/2" SPRINK B1H-125 OR 1/2" ARNSTRONG #811-125 INVERTED BUCKET STEAM TRAP. WILL HAVE TO REPIPE FOR 18" TRAP. INSPECTED 8/7/12.		X	X											
383	GROUND LEVEL BOILER ROOM #2 BOILER	3-1-1	1	D	4	1/2" NICHOLSON WD800	115	STEAM MAIN DRP	CO	STEAM TRAP B COLD OUT OF SERVICE. IF REQUIRED, REPLACE WITH NEW 1/2" SPRINK B1H-125 OR 1/2" TUNSTALL #811-125 INVERTED BUCKET STEAM TRAP. INSPECTED 8/7/12.		X	X											
384	GROUND LEVEL BOILER ROOM #3 BOILER	3-1-1	1	D	4	1/2" NICHOLSON WD800	115	STEAM MAIN DRP	CO	STEAM TRAP B COLD OUT OF SERVICE. IF REQUIRED, REPLACE WITH NEW 1/2" SPRINK B1H-125 OR 1/2" TUNSTALL #811-125 INVERTED BUCKET STEAM TRAP. 2' FT OF P-BARE 115 PSIG STEAM PIPE NEEDS INSULATION ABOVE STEAM TRAP. INSPECTED 8/7/12.		X	X									X		
385	GROUND LEVEL BOILER ROOM #4 DRP MAIN	3-1-1	1	B	1	3/4" SPRINK B1H-125	115	STEAM MAIN DRP	OK	STEAM TRAP OK. (NEW TRAP) WHEN WORK, REPAIR STEAM TRAP WITH SPRINK #8004 REPAIR KIT. 4FT OF 1" P-BARE 115 PSIG STEAM PIPE NEEDS INSULATION (DRIET LEG). INSPECTED 8/7/12.		X												
386	GROUND LEVEL BOILER ROOM BEHIND #2 BOILER	3-1-1	1	D	12	1/2" PROBE/ICENT TECHNOLOGIES HQGB45	115	STEAM MAIN DRP	OK	STEAM TRAP OK. WHEN WORK, REPAIR STEAM TRAP WITH 1/2" SPRINK B1H-125 OR 1/2" ARNSTRONG #811-125 INVERTED BUCKET STEAM TRAP. P LONG RADIUS ELBOW 115 PSIG STEAM NEEDS INSULATION. INSPECTED 8/7/12.		X									X			
387	GROUND LEVEL BOILER ROOM BEHIND #2 BOILER	3-1-1	1	D	9	TECHNOLOGIES HQGB45	115	STEAM MAIN DRP	CO	STEAM TRAP B COLD OUT OF SERVICE. POSSIBLY NOT USED.			X											
388	GROUND LEVEL BOILER ROOM NORTH EAST CORNER DRP	3-1-1	1	B	23	3/4" SPRINK B1H-125	15	STEAM MAIN DRP	CO	STEAM TRAP B COLD OUT OF SERVICE. (NEW TRAP). IF REQUIRED, REPAIR STEAM TRAP WITH SPRINK #8004 REPAIR KIT. 6 FT. OF 3" P-BARE 115 PSIG STEAM PIPE NEEDS INSULATION AND (2) 3" 90 DEGREE ELBOWS. INSPECTED 8/7/12. .		X	X	X								X		
389	GROUND LEVEL BOILER ROOM NORTH EAST CORNER DRP	3-1-1	1	D	20	TECHNOLOGIES HQGB45	115	STEAM MAIN DRP	CO	STEAM TRAP B COLD OUT OF SERVICE. IF REQUIRED, REPLACE WITH NEW 1/2" SPRINK B1H-125 OR 1/2" TUNSTALL #811-125 INVERTED BUCKET STEAM TRAP. INSPECTED 8/7/12.		X	X											
390	GROUND LEVEL BOILER ROOM L. P. DRP	3-1-1	1	F	20	3/4" SPRINK FT-15	15	STEAM MAIN DRP	CO	STEAM TRAP B COLD OUT OF SERVICE. IF REQUIRED, REPAIR WITH TUNSTALL #FFPSA-15 FACE PLATE REPAIR KIT. INSPECTED 8/7/12.		X				X								
391	GROUND LEVEL BOILER ROOM DRP NORTH EAST CORNER	3-1-1	1	B	22	3/4" SPRINK B1H-125	50	STEAM MAIN DRP	OK	STEAM TRAP B OK. (NEW TRAP) WHEN WORK, REPAIR STEAM TRAP WITH SPRINK #8004 REPAIR KIT. INSPECTED 8/7/12.		X												
392	GROUND LEVEL BOILER ROOM DA TANK LEVEL #2 DRP	3-2-4	4	B	2	3/4" SPRINK B1H-125	115	STEAM MAIN DRP	OK/LK	STEAM TRAP B OK. (NEW TRAP) WHEN WORK, REPAIR STEAM TRAP WITH SPRINK #8004 REPAIR KIT. 3/4" GATE VALVE BY-PASS LEAKS THROUGH - REPLACE WITH 3/4" STEAM SERVICE BALL VALVE. INSPECTED 8/7/12.			X			X						X		
393	GROUND LEVEL BOILER ROOM DA TANK LEVEL L. P. DRP	3-2-4	4	B	2	3/4" SPRINK B1H-125	5	STEAM MAIN DRP	OK/LK	STEAM TRAP B OK. (NEW TRAP) WHEN WORK, REPAIR STEAM TRAP WITH SPRINK #8004 REPAIR KIT. 3/4" GATE VALVE BY-PASS LEAKS THROUGH - REPLACE WITH 3/4" STEAM SERVICE BALL VALVE. INSPECTED 8/7/12.			X									X		
394	GROUND LEVEL BOILER ROOM DA TANK LEVEL NORTH WALL H.P. DRP N.W. CORNER	3-2-4	4	B	2	3/4" SPRINK B1H-125	115	STEAM MAIN DRP	OK	STEAM TRAP B OK. (NEW TRAP) WHEN WORK, REPAIR STEAM TRAP WITH SPRINK #8004 REPAIR KIT. INSPECTED 8/7/12.			X								X			
395	GROUND LEVEL BOILER ROOM DA TANK LEVEL NORTH WALL L.P. DRP N.W. CORNER	3-2-4	4	B	2	3/4" SPRINK B1H-125	5	STEAM MAIN DRP	CO	STEAM TRAP B COLD OUT OF SERVICE. (NEW TRAP). IF REQUIRED, REPAIR STEAM TRAP WITH SPRINK #8004 REPAIR KIT. INSPECTED 8/7/12.		X	X								X			
396	BOILER ROOM 2ND LEVEL EAST END BOILER	3-2-4	4	B	16	3/4" SPRINK B1H-125	115	STEAM MAIN DRP	OK	STEAM TRAP B OK. (NEW TRAP) WHEN WORK, REPAIR STEAM TRAP WITH SPRINK #8004 REPAIR KIT. INSPECTED 8/7/12.			X											
397	BOILER ROOM 2ND LEVEL EAST END BOILER	3-2-4	4	B	16	3/4" SPRINK B1H-125	115	STEAM MAIN DRP	CO	STEAM TRAP B COLD OUT OF SERVICE. MOUNTED IN PARALLEL TO TRAP #806. IF REQUIRED, REPAIR STEAM TRAP WITH SPRINK #8004 REPAIR KIT. INSPECT STEAM TRAP ISOLATION VALVES. INSPECTED 8/7/12.			X											
398	UPPER LEVEL BOILER ROOM 4NW - WEST	-	6	F	1	2" SPRINK FT-15	15	STEAM COIL	CO	STEAM TRAP B COLD OUT OF SERVICE. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #8R-SA-15. NO VACUUM BREAKER PRESENT. SHOULD INSTALL TUNSTALL VB-34 STEAM SERVICE VACUUM BREAKER. INSPECTED 8/7/12.			X			X								
399	UPPER LEVEL BOILER ROOM 4NW - EAST	-	6	F	1	2" SPRINK FT-15	15	STEAM COIL	CO	STEAM TRAP B COLD OUT OF SERVICE. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #8R-SA-15. NO VACUUM BREAKER PRESENT. SHOULD INSTALL TUNSTALL VB-34 STEAM SERVICE VACUUM BREAKER. INSPECTED 8/7/12.			X			X								
400	PAINT STORAGE AT BOILER ROOM ENTRANCE	-	6	F	9	3/4" SPRINK FT-15	10	UNIT HEATER	CO	STEAM TRAP B COLD OUT OF SERVICE. IF REQUIRED, REPAIR WITH TUNSTALL #FFPSA-15 FACE PLATE REPAIR KIT. INSPECTED 8/7/12.			X			X								
401	LOADING DOCK UNIT HEATER (CARBOARD BALS)	-	6	F	4	1" SPRINK FT-30	10	UNIT HEATER	CO	STEAM TRAP B COLD OUT OF SERVICE. IF REQUIRED, REPAIR WITH TUNSTALL #FFPSA-15 FACE PLATE REPAIR KIT. ELEVATED CONDENSATE 8F. STEAM TRAP TO BE REMOVED (NEW CONSTRUCTION). INSPECTED 8/8/12.	X													
402	LOADING DOCK OFFICE UNIT HEATER	-	6	F	12	1 1/4" SPRINK FT-15	10	UNIT HEATER	CO	STEAM TRAP B COLD OUT OF SERVICE. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #FFPSA-15 FACE PLATE REPAIR KIT. ELEVATED CONDENSATE 8F. STEAM TRAP TO BE REMOVED (NEW CONSTRUCTION). INSPECTED 8/8/12.	X													
403	LOADING DOCK OFFICE L.P. E.O.M. DRP	-	6	B	12	3/4" SPRINK B1H-125	10	STEAM MAIN DRP	CO	(NEW STEAM TRAP) STEAM TRAP IS COLD OUT OF SERVICE. IF REQUIRED, REPAIR STEAM TRAP WITH SPRINK #8004 REPAIR KIT. INSPECT STEAM TRAP ISOLATION VALVES. STEAM TRAP TO BE REMOVED (NEW CONSTRUCTION). INSPECTED 8/8/12. INSPECTED 8/8/12.	X													
404	WEST REINHOUSE H.P. DRP ABOVE CONDENSATE PUMP	3-2-4	4	B	8	3/4" SPRINK B1H-125	115	STEAM MAIN DRP	OK	STEAM TRAP B OK. WHEN WORK, REPAIR STEAM TRAP WITH SPRINK #8004 REPAIR KIT. NOTE - WEST REINHOUSE. CHECK FLASH TANK PIPING. INSPECTED 8/8/12.		X									X			
407	SUB BASEMENT COIL T-15. HIGH PRESSURE DRP	3-8B-1	1	B	3	3/4" SPRINK B12115-125	115	STEAM MAIN DRP	OK	STEAM TRAP OK. WHEN WORK, REPAIR STEAM TRAP WITH SPRINK #8004 STEAM TRAP REPAIR KIT. NEW TAG. INSPECTED 7/24/12.		X												
408	SUB BASEMENT COIL T-130115. HIGH PRESSURE DRP	3-8B-1	1	D	2	3/4" SPRINK TDS2L	115	STEAM MAIN DRP	OK	STEAM TRAP OK. WHEN WORK, REPAIR STEAM TRAP WITH 3/4" SPRINK B1H-125 OR 3/4" ARNSTRONG #800-125 INVERTED BUCKET STEAM TRAP. NEW TAG. INSPECTED 7/24/12.			X											
409	SUB BASEMENT EQUIP ROOM H2S LOW PRESSURE DRP	3-8B-4	4	F	2	3/4" HOFF T1015H3	15	STEAM MAIN DRP	LK	REPAIR DEFECTIVE STEAM TRAP WITH TUNSTALL #FFPH-15 FACE PLATE REPAIR KIT (SLIGHT LEAKAGE). NEW TAG. INSPECTED 7/24/12.			X											
410	SUB BASEMENT COIL Q-18 HIGH PRESSURE DRP	3-8B-1	1	B	3	3/4" SPRINK B12115-125	115	STEAM MAIN DRP	OK	STEAM TRAP OK. WHEN WORK, REPAIR STEAM TRAP WITH SPRINK #8004 STEAM TRAP REPAIR KIT. NEW TAG. INSPECTED 7/24/12.		X									X			

COLUMN REFERENCE NOTES:

- ① FURNISH AND INSTALL AN ACOUSTIC WHEELLESS STEAM TRAP MONITORING SENSOR PER SPECIFICATIONS.
- ② REPLACE OR REPAIR STEAM TRAP IN ACCORDANCE WITH DESCRIPTION IN REMARKS COLUMN.
- ③ REMOVE STEAM TRAP AND ALL ABANDONED CONDENSATE PIPING TO A POINT WHERE THE CONDENSATE LINE IS LIVE. CAP.
- ④ REPAIR STEAM/CONDENSATE LEAK IN ACCORDANCE WITH DESCRIPTION IN REMARKS COLUMN.
- ⑤ INSPECT, TEST AND DETERMINE THE REASON FOR ANY OTHER UNPLANNED STEAM TRAP FAILURE. THAT WHEN FOUND TO BE COLD FIX ALL ITEMS FOUND TO BE NEEDING REPAIR. (FOR PURPOSES OF THIS BID ASSUME THE CONTROL VALVES REQUIRE REPAIR OR REPLACEMENT). DEDUCT ALTERNATE NO. 1.
- ⑥ REPLACE THE EXISTING COPPER PIPING WITH NEW STEEL PIPE AND REPLACE THE EXISTING DIELECTRIC UNIONS AND NIPPLES WITH EQUIVALENT SIZES. SEE THE REMARKS COLUMN FOR REQUIRED WORK. SEE THE SPECIFICATIONS FOR THE REQUIRED MATERIALS AND FITTINGS. INSULATE ALL NEW & EXISTING BARE PIPE. DEDUCT ALTERNATE NO. 2.
- ⑦ FURNISH AND INSTALL NEW STEAM VACUUM BREAKERS IN ACCORDANCE WITH THE REMARKS COLUMN.

CONSULTANTS:

ARCHITECT:

[illegible]