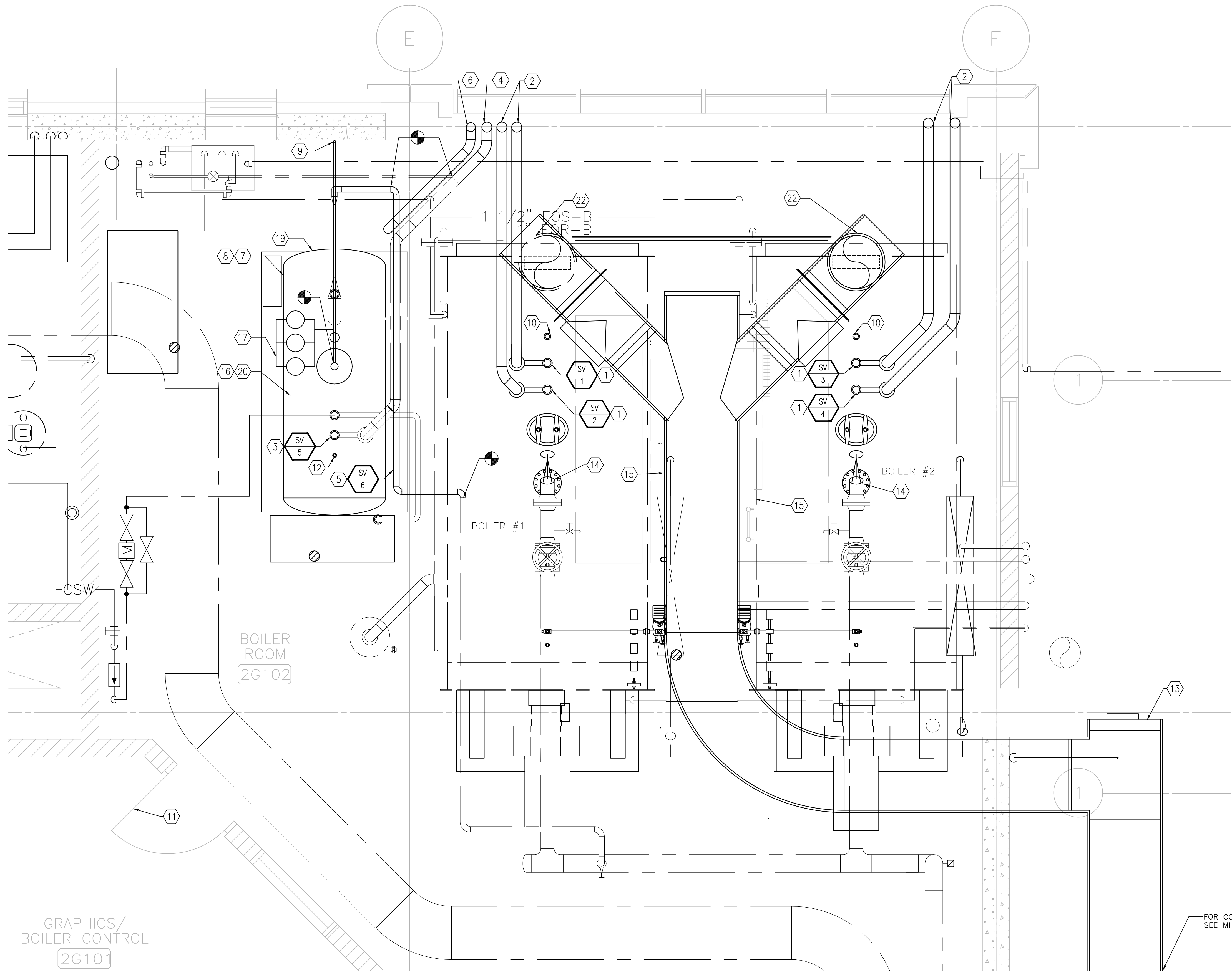


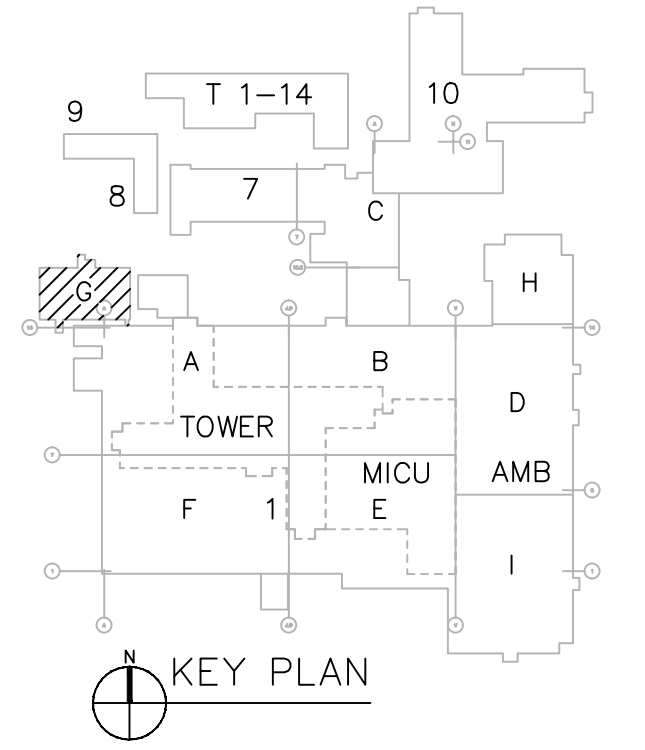
three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot



- ### KEYNOTES
1. INSTALL (N) BOILER STEAM PRESSURE RELIEF VALVE (TYPICAL 4). INSTALL UNIONS BETWEEN NEW VALVES AND DRIP PAN ELBOWS. SEE STEAM PRESSURE RELIEF VALVE SCHEDULE AND INSTALLATION DETAIL FOR ADDITIONAL INFORMATION.
  2. REROUTE SAFETY RELIEF PIPING FROM EACH BOILER RELIEF VALVE UP THROUGH CEILING (TYPICAL 4) ALONG PLANT NORTH WALL. SLOPE PIPING TOWARDS DRIP PAN ELBOWS. SEE THIRD FLOOR PLAN FOR CONTINUATION. CONTRACTOR SHALL SIZE VENT PIPING BASED ON VALVES FURNISHED.
  3. INSTALL (N) DEAERATOR STEAM PRESSURE RELIEF VALVE. INSTALL UNIONS BETWEEN NEW VALVES AND DRIP PAN ELBOWS. SEE STEAM PRESSURE RELIEF VALVE SCHEDULE AND INSTALLATION DETAIL FOR ADDITIONAL INFORMATION.
  4. ROUTE (N) 4" STEAM VENT FROM DEAERATOR UP THROUGH CEILING ALONG NORTH WALL. SLOPE PIPING TOWARDS DRIP PAN ELBOW. SEE THIRD FLOOR PLAN FOR CONTINUATION.
  5. RELOCATE DEAERATOR STEAM PRESSURE REDUCING STATION APPROXIMATELY 40" ABOVE FINISHED FLOOR. SUPPORT FROM DEAERATOR SUPPORT STRUCTURE. PROVIDE NEW PILOT AND MAIN PRESSURE REDUCING VALVES WITH BYPASS. INSTALL STEAM PRESSURE RELIEF VALVE AND VENT PIPING DOWNSTREAM OF CONTROL VALVE STATION.
  6. INSTALL (N) 4" VENT FROM DEAERATOR STEAM PRESSURE REDUCING STATION SAFETY RELIEF VENT TO ROOF. SEE THIRD FLOOR PLAN FOR CONTINUATION.
  7. REPLACE CARBON STEEL WATER SAMPLE PIPING WITH STAINLESS STEEL TUBING AND FITTINGS.
  8. PROVIDE ISOLATING BALL VALVES ON THE DEAERATOR WATER LEVEL CONTROL AND GAGE GLASS PIPING PER FEEDWATER DEAERATOR FLOW DIAGRAM DETAIL.
  9. INSTALL (N) 1" DEAERATOR VENT PIPE THROUGH CEILING WITH AS-FEW FITTINGS AS POSSIBLE. FIELD VERIFY ACTUAL PIPE SIZE. (E) MANUAL CONTROL VALVE TO REMAIN.
  10. INSTALL DOUBLE 1" VENTING BALL VALVES AT EACH BOILER SHELL (TYPICAL 2 LOCATIONS). UTILIZE (E) TAPS ON WATER SIDE.
  11. INSTALL NEW NON-LOCKING HARDWARE ON BOILER CONTROL ROOM DOOR.
  12. RELOCATE THE DEAERATOR STEAM PRESSURE GAGE TO A LOCATION VISIBLE FROM THE FLOOR OR DEAERATOR PLATFORM. UTILIZE (E) TAPS ON TOP OF DEAERATOR. PROVIDE ISOLATION VALVE PER SPECIFICATIONS.
  13. INSTALL (N) DOUBLE WALL STAINLESS STEEL 32" COMBINED BOILER STACK BETWEEN BOILERS AND NEW ROOFTOP INDUCED DRAFT FANS. SEE SHEET MH141 FOR CONTINUATION.
  14. REPLACE (E) 6" NON RETURN ANGLE VALVES WITH NEW CRANE FIGURE 30 VALVES (TYPICAL 2).
  15. SUPPORT (E) LOOSE BLOWDOWN PIPING PER SPECIFICATIONS. (TYPICAL).
  16. INSTALL AN AUTOMATIC EMERGENCY SOFT WATER MAKE-UP SYSTEM TO THE FEEDWATER DEAERATOR. SEE P&ID AND DETAILS FOR ADDITIONAL INFORMATION.
  17. INSTALL PRESSURE GAGES ON THE SUCTION AND DISCHARGE PIPING OF EACH OF THE THREE FEEDWATER PUMPS (TYPICAL 6). INSTALL THERMOMETERS AT EACH HEADER (TYPICAL 2).
  18. NOT USED.
  19. REPLACE DEAERATOR OVERFLOW FLOAT TRAP WITH ELECTRONIC OVERFLOW CONTROL SYSTEM PER SPECIFICATIONS.
  20. PERFORM DISSOLVED OXYGEN TESTS ON THE FEEDWATER LEAVING THE DEAERATOR PER SPECIFICATIONS.
  21. NOT USED.
  22. EXISTING BOILER OUTLET DUCTWORK AND COUNTERBALANCED DRAFT DAMPERS TO REMAIN (TYPICAL 2).

- ### GENERAL NOTES
1. INSPECT ALL EXISTING PIPING SUPPORTS AND ADJUST PER SPECIFICATIONS.
  2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS.
  3. DISCONNECT ALL THREADED FUEL OIL JOINTS UTILIZING WHITE TEFLON TAPE AND REJOIN WITH RATED MATERIAL. IF JOINING MATERIAL IS UNKNOWN, REPLACE.
  4. REPLACE ALL EXISTING 4" PRESSURE GAGES LOCATED IN THE BOILER ROOM WITH NEW 4-1/2" GAGES PER SPECIFICATIONS. INCLUDE AS ADD ALTERNATE #2.
  5. REPAIR ALL EXISTING DAMAGED HOT PIPE INSULATION PER SPECIFICATION.
  6. BURNER CONTROL PANELS SHALL BE LOCATED ADJACENT TO THE BOILERS. PROVIDE LOCAL AC CABINET MOUNTED COOLING UNITS ON EACH PANEL.
  7. UNDER NO CIRCUMSTANCES SHALL THE BOILERS AND CONTROL SYSTEMS HAVE THE ABILITY TO BE REMOTELY STARTED.

MECHANICAL NEW WORK  
BOILER AREA PLAN



DESIGN DEVELOPMENT - NOT FOR CONSTRUCTION

<b>CONSULTANTS:</b>		<b>ARCHITECT/ENGINEERS:</b> <b>GLHN</b> ARCHITECTS & ENGINEERS, INC. 2939 E. Broadway Blvd. Tucson, Arizona 85716 PH: 520-881-4546 FAX: 520-795-1822 glhn.com <small>COPYRIGHT 2010 GLHN ARCHITECTS &amp; ENGINEERS, INC. ALL RIGHTS RESERVED</small>		<b>Drawing Title</b> BASE BID: LEVEL 2 AREA G ENLARGED MECH NEW WORK PLAN		<b>Project Title</b> MIAMI UTILITY PLANT CORRECTIONS		<b>Project Number</b> 0555.118		<b>Office of Construction and Facilities Management</b>  <b>Department of Veterans Affairs</b>	
				<b>Approved Project Director</b>		<b>Building Number</b> G/A		<b>Building Number</b> G/A			
						<b>Location</b> MIAMI UTILITY PLANT		<b>Drawing Number</b> MH421			
<b>Revisions:</b>		<b>Date</b>				<b>Date</b> 08-05-11		<b>Checked</b> HWJ		<b>Drawn</b> WMK	