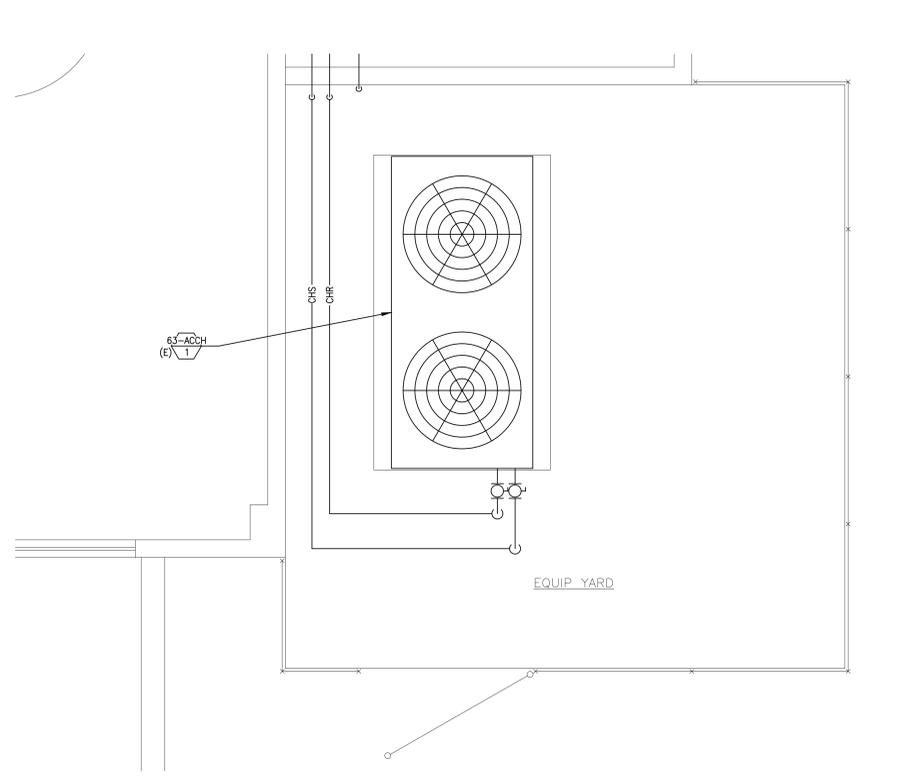
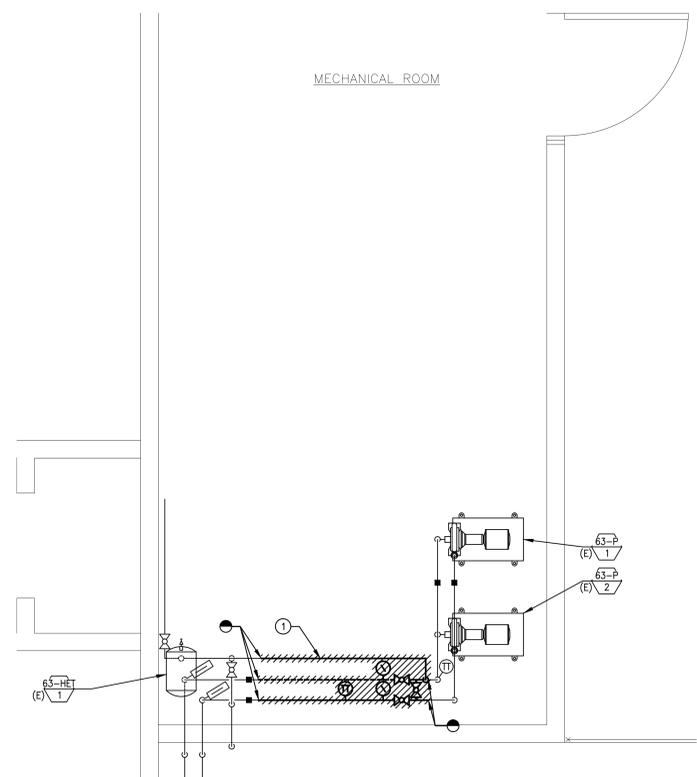


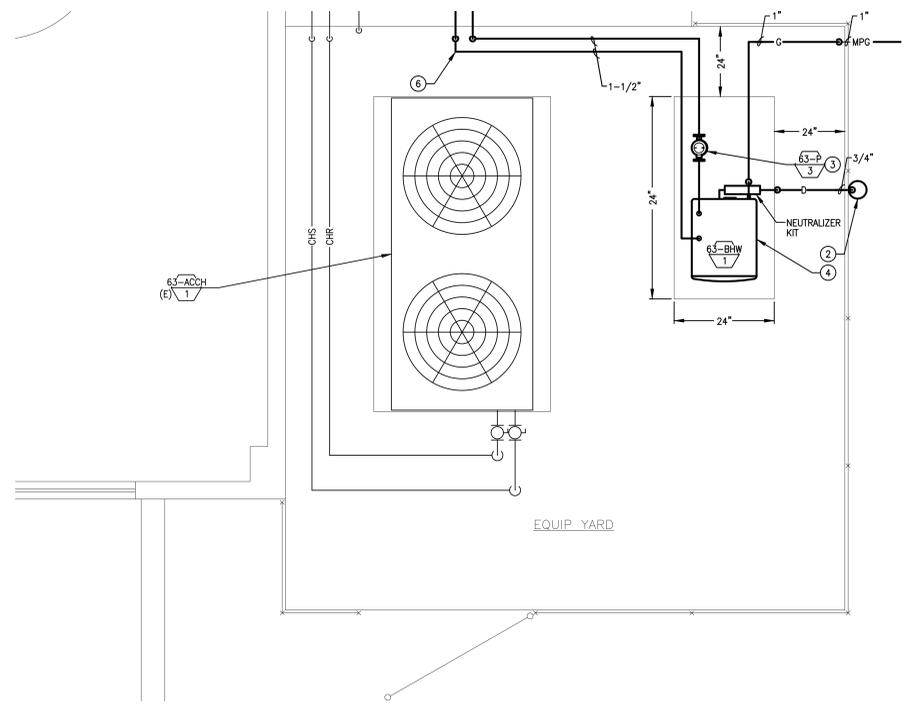
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 one half inch = one foot
 three quarters inch = one foot
 one quarter inch = one foot
 three eighths inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot



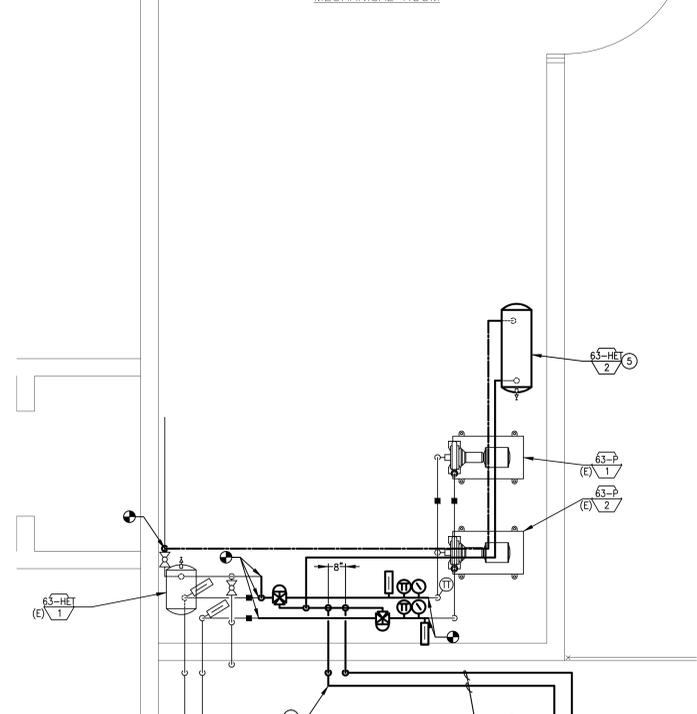
EQUIPMENT YARD MECHANICAL DEMOLITION PLAN
 SCALE: 1/2" = 1'-0"



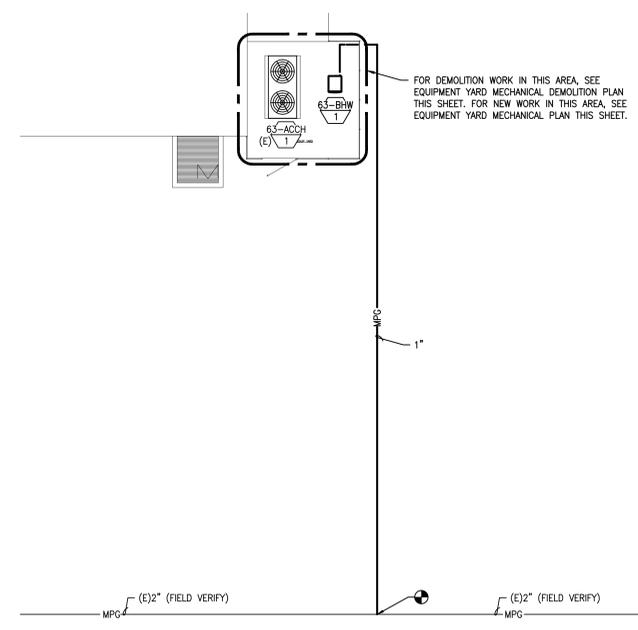
MECHANICAL ROOM DEMOLITION PLAN
 SCALE: 1/2" = 1'-0"



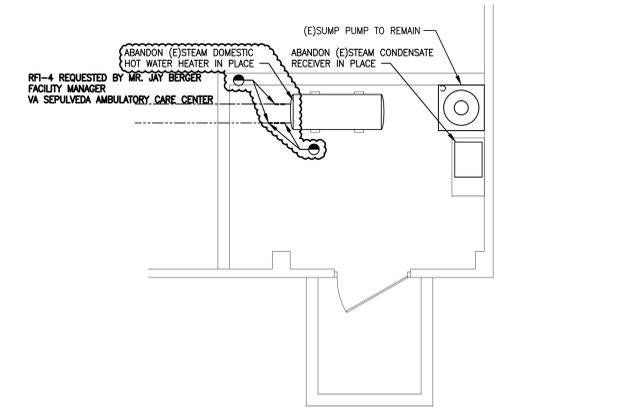
EQUIPMENT YARD MECHANICAL PLAN
 SCALE: 1/2" = 1'-0"



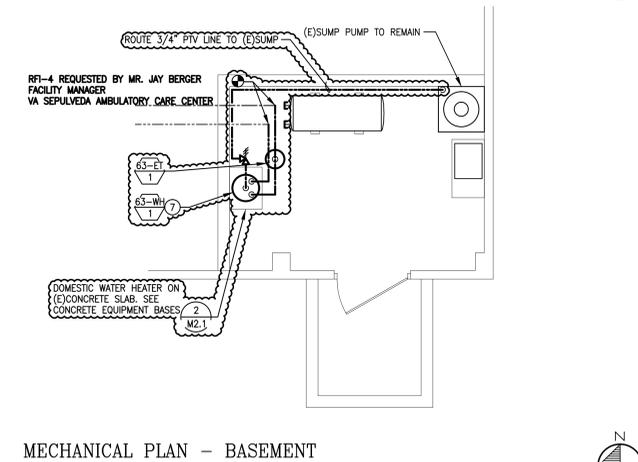
MECHANICAL ROOM PLAN
 SCALE: 1/2" = 1'-0"



SITE MECHANICAL PLAN - MEDIUM PRESSURE NATURAL GAS
 SCALE: 1/4" = 1'-0"



MECHANICAL DEMOLITION PLAN - BASEMENT
 SCALE: 1/4" = 1'-0"



MECHANICAL PLAN - BASEMENT
 SCALE: 1/4" = 1'-0"

- BUILDING 63 SCOPE OF WORK**
- THE NEW HEATING HOT WATER (HW) SYSTEM WILL INTERCONNECT WITH THE EXISTING CHILLED WATER SYSTEM TO PROVIDE A 2-PIPE HEATING HOT WATER AND CHILLED WATER SYSTEM.
 - INSTALL TWO 2-WAY VALVES TO ISOLATE THE TWO DIFFERENT OPERATIONAL MODES.
 - THE EXISTING CONTROL VALVES AND CONTROLS ARE TO REMAIN.
 - UTILIZE THE EXISTING CW SECONDARY PUMP FOR BOTH HEATING AND COOLING OPERATION.
 - THE CONDENSING BOILER WILL HAVE A DEDICATED PRIMARY LOOP PUMP AND WILL OPERATE AT A REDUCED TEMPERATURE SETTING.
 - PROVIDE A CONCRETE HOUSE KEEPING PAD FOR THE BOILER ADJACENT TO THE EXISTING CHILLER.
 - JOHNSON CONTROLS SHALL PROVIDE THE LOGIC AND CONTROL OF THE TWO OPERATIONAL MODES AND INTERFACE WITH THE MASTER CONTROL SYSTEM.
 - THE HW SYSTEM SHALL HAVE A SEPARATE EXPANSION TANK, AND WILL NOT UTILIZE THE CHILLED WATER EXPANSION TANK.
 - PIPE INSULATION IS NOT INCLUDED, BUT WILL BE PERFORMED BY A SEPARATE CONTRACTOR.
 - DECOMMISSION DOMESTIC HOT WATER HEATER EXCHANGER.
- RFI-4 REQUESTED BY MR. JAY BERGER
 FACILITY MANAGER
 VA SEPULVEDA AMBULATORY CARE CENTER

- GENERAL NOTES**
- COORDINATE WITH OWNER FOR EQUIPMENT/SYSTEM SHUT DOWN TIMES.
 - VERIFY HORSEPOWER, VOLTAGE, AND PHASE PRIOR TO ORDERING PUMP 63-P-3.
 - VERIFY VOLTAGE, AND PHASE PRIOR TO ORDERING BOILER 63-B-1.
 - FOR ALL NEW PIPING THAT REQUIRES ROUTING ON THE FLOOR OR CONCRETE SLAB IN THE WALKING PATH, INSTALL A METAL PROTECTIVE COVER FOR THE PIPING. SEE PIPE SUPPORT/COVER DETAIL 9 M-2.2.
 - THERE IS AN EXISTING UNDERGROUND STREET LIGHTING CIRCUIT THAT IS IN THE VICINITY OF THE NEW 1" MPG LINE.
 - VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO TRENCHING.

- KEY NOTES**
- FOR EXTEND OF PIPING DEMOLITION, SEE CHILLED WATER PIPING DIAGRAM - DEMOLITION 1 M-2.2.
 - FOR CONDENSATE DRY WELL, SEE CONDENSATE DRY WELL DETAIL 4 M-2.2.
 - FOR CONDENSATE DRY WELL, SEE CLOSE COUPLED PUMP MOUNTING DETAIL 6 M-2.2.
 - FOR BOILER MOUNTING, SEE BOILER MOUNTING DETAIL 8 M-2.2.
 - FOR COMPRESSION TANK MOUNTING, SEE COMPRESSION TANK MOUNTING DETAIL 12 M-2.3.
 - FOR NEW CHILLED WATER AND HEATING HOT WATER PIPING DIAGRAM, SEE CHILLED WATER AND HEATING HOT WATER PIPING DIAGRAM DETAIL 2 M-2.2.
 - FOR DOMESTIC WATER HEATER PIPING DIAGRAM, SEE DOMESTIC WATER HEATER DETAIL 4 M-2.2.

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

DESIGN-BUILDER: ACCURATE ENGINEERING INTEGRATED CONSTRUCTION SERVICES, INC. GENERAL AND SPECIALTY CONTRACTORS 700A TRADE STREET SAN DIEGO, CA 92111 PH: (619) 444-1789 FAX: (619) 444-1896 WWW.ACCURATEENGINEERING.COM	ARCHITECT/ENGINEERS: BENDER & DEAN ENGINEERING 438 Camino Del Rio South Suite 217 San Diego, CA 92108-3547 Phone: (619) 704-1900 Fax: (619) 427-1608	Drawing Title BUILDING 63 - MECHANICAL PLANS, SITE MECHANICAL PLANS, AND NOTES	Project Title VA HOSPITAL - SEPULVEDA ENERGY EFFICIENCY MEASURES	Project Number - Building Number 63	Office of Construction and Facilities Management
		Approved Project Director _____	Location NORTH HILLS, CA	Drawing Number 63-M-1	
RFI-4 DECOM. STM WTR HEATER, INSTALL ELEC WATER HEATER Revisions:	Date 04/06/12	Date APRIL 6, 2012	Checked _____	Drawn _____	Dwg. of -