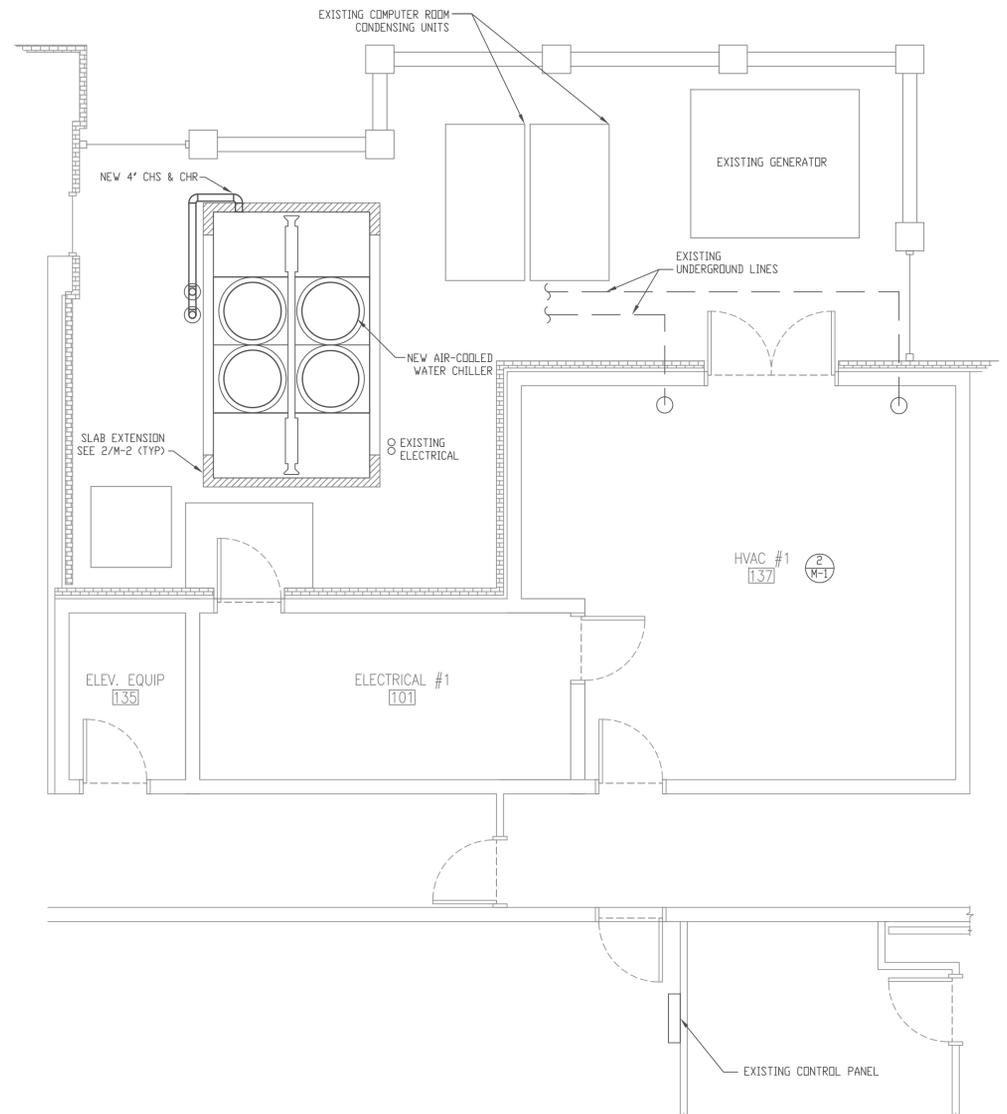
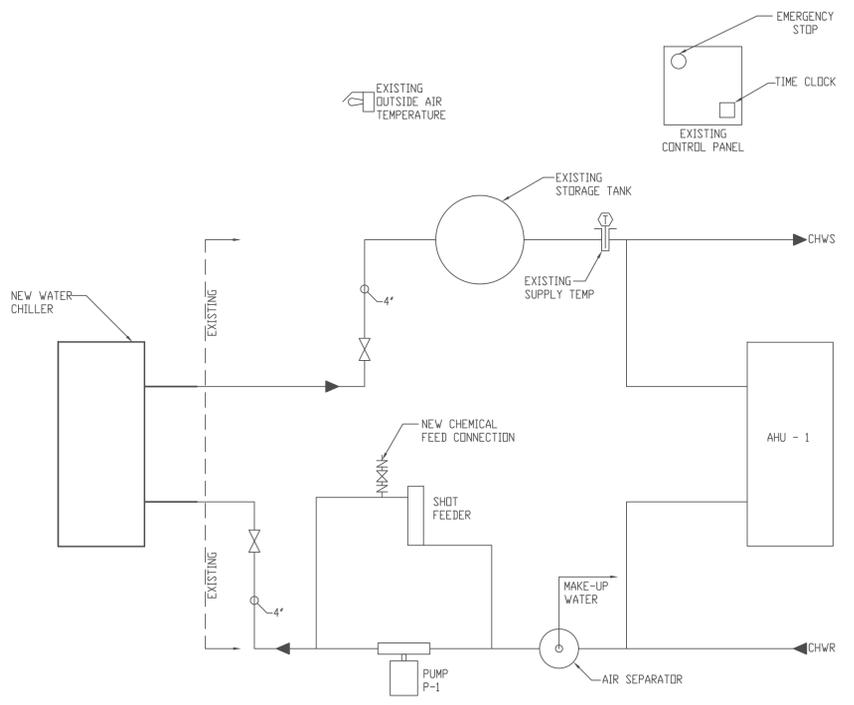


4
M-1
DEMOLITION SITE PLAN
SCALE: 3/16" = 1'

- DEMOLITION NOTES**
- ① DISCONNECT CHILLER FROM CHILLED WATER PIPING. REMOVE PIPING AS NECESSARY TO ACCOMMODATE NEW REPLACEMENT CHILLER. EXISTING UNDERGROUND CHILLED WATER SUPPLY AND RETURN TO REMAIN.
 - ② DISCONNECT EXISTING ELECTRICAL FEED FOR CHILLER AND HEAT TRACE. DISCONNECT CONTROL WIRING AND SAVE FOR RE-USE IN NEW CHILLER INSTALLATION. REMOVE WIRING FROM CONDUIT BACK TO SWITCH GEAR.
 - ③ REMOVE EXISTING AIR COOLED WATER CHILLER. MAINTAIN EXISTING CONCRETE SLAB FOR USE IN INSTALLING NEW REPLACEMENT CHILLER.
 - ④ PROTECT EXISTING COMPUTER ROOM CONDENSING UNITS AND SCREEN WALL DURING DEMOLITION.



1
M-1
CHILLER SITE PLAN
SCALE: 3/16" = 1'



3
M-1
CHILLED WATER SCHEMATIC
N.T.S

OPERATING SEQUENCE

CHILLER - RUN CONDITIONS:

- THE CHILLER SHALL RUN WHENEVER:
 - AN AIR HANDLER NEEDS COOLING
 - THE OUTSIDE AIR TEMPERATURE IS >50°F (ADJ.)
 - AND TIME CLOCK COMMANDS SYSTEM ON
- TO PREVENT SHORT CYCLING, THE CHILLER SHALL RUN FOR AND BE OFF FOR MINIMUM ADJUSTABLE TIMES, UNLESS SHUTDOWN OF SAFETIES OR OUTSIDE AIR CONDITIONS
- THE CHILLER SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS

EMERGENCY SHUTDOWN:

- THE CHILLER SHALL SHUT DOWN AND AN ALARM SHALL BE GENERATED UPON RECEIVING AN EMERGENCY SHUTDOWN SIGNAL OR INTERNAL SAFETIES TRIP

CHILLED WATER PUMP:

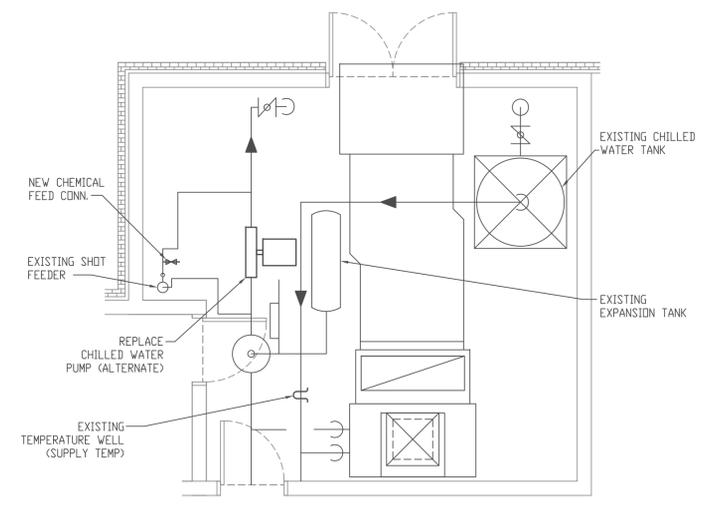
- THE CHILLED WATER PUMP SHALL RUN ANYTIME THE CHILLER IS CALLED TO RUN. THE CHILLED WATER PUMP SHALL ALSO RUN FOR FREEZE PROTECTION WHENEVER THE OUTSIDE AIR TEMPERATURE IS LESS THAN A USER DEINABLE SETPOINT (ADJ.)
- THE CHILLED WATER PUMP SHALL START PRIOR TO THE CHILLER BEING ENABLED AND SHALL STOP ONLY AFTER THE CHILLER IS DISABLED

CHILLER:

- THE CHILLER SHALL BE ENABLED AFTER PUMP STATUS IS PROVEN ON
- THE CHILLER SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS
- AN ALARM SHALL BE PROVIDED IF:
 - CHILLER IS COMMANDED ON, BUT THE STATUS IS OFF

CHILLED WATER SUPPLY TEMPERATURE SETPOINT:

- THE CHILLED WATER SUPPLY TEMPERATURE SETPOINT SHALL BE RESET BASED ON OUTSIDE AIR TEMPERATURE



2
M-1
MECHANICAL ROOM PLAN
SCALE: 1/4" = 1'

NOTES

1. CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL AIR COOLED WATER CHILLER SYSTEM PER THESE CONTRACT DOCUMENTS.
2. ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE GEORGIA MECHANICAL CODE, THE STANDARD BUILDING CODE, THE STATE ENERGY CODE, NFPS 90A, 96, 101 AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
3. PRIOR TO STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, PIPING SIZES AND LOCATIONS, EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE ENGINEER.
4. CONTRACTOR SHALL SUBMIT EVIDENCE OF CURRENT INSURANCE, GEORGIA MECHANICAL CONTRACTOR LICENSE, AND WELDING QUALIFICATION CERTIFICATE.
5. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES IF NOT PROVIDED WITH EQUIPMENT. COORDINATE SWITCH TYPE WITH EQUIPMENT CHARACTERISTICS AND ELECTRICAL DRAWING.
6. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
8. INSTALL OUTDOOR AIR CONDITIONING EQUIPMENT AND LEVEL SUPPORTS AS DETAILED.
9. AFTER CONSTRUCTION, THE ENTIRE CHILLED WATER SYSTEM SHALL BE TESTED, ADJUSTED AND BALANCED TO DELIVER THE WATER FLOW QUANTITIES SHOWN ON THE DRAWINGS.
10. ALL EXISTING EQUIPMENT, PIPING, ETC. SHOWN AS BEING REMOVED AS PART OF THIS WORK SHALL BECOME THE PROPERTY OF THE HVAC CONTRACTOR AND SHALL BE REMOVED FROM THE JOB SITE PRIOR TO PROJECT COMPLETION.
11. ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE OWNER TO SUIT OWNER'S SCHEDULE.
12. ANY EXISTING WALL, FLOOR OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THE HVAC WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS.
13. SEE GENERAL CONDITIONS AND TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

LEGEND

CONC ELEC °F GPM	CONCRETE ELECTRIC OR ELECTRICAL DEGREE IN FAHRENHEIT GALLONS PER MINUTE	KW NTS PSIG	KILOWATTS NOT TO SCALE POUNDS PER SQUARE INCH GAUGE
— CHS —	CHS	CHS	CHILLED WATER SUPPLY
— CHR —	CHR	CHR	CHILLED WATER RETURN
→	---	---	FLOW DIRECTION
---	---	---	FLEX CONNECTION
---	---	---	GATE VALVE
---	---	---	STRAINER W/ VALVE AND HOSE CONNECTION
---	---	---	THERMOMETER
---	---	---	PRESSURE GAUGE WITH COCK

PART PLANS AND GENERAL NOTES

**MARIETTA POWER AND WATER
CHILLER REPLACEMENT**

MARIETTA BOARD OF LIGHTS AND WATER
627 North Marietta Pkwy NE
Marietta, GA 30060

CHECKED: DWW
DRAWN: BTF

SCALE: NOTED
DATE: 9-19-2014

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