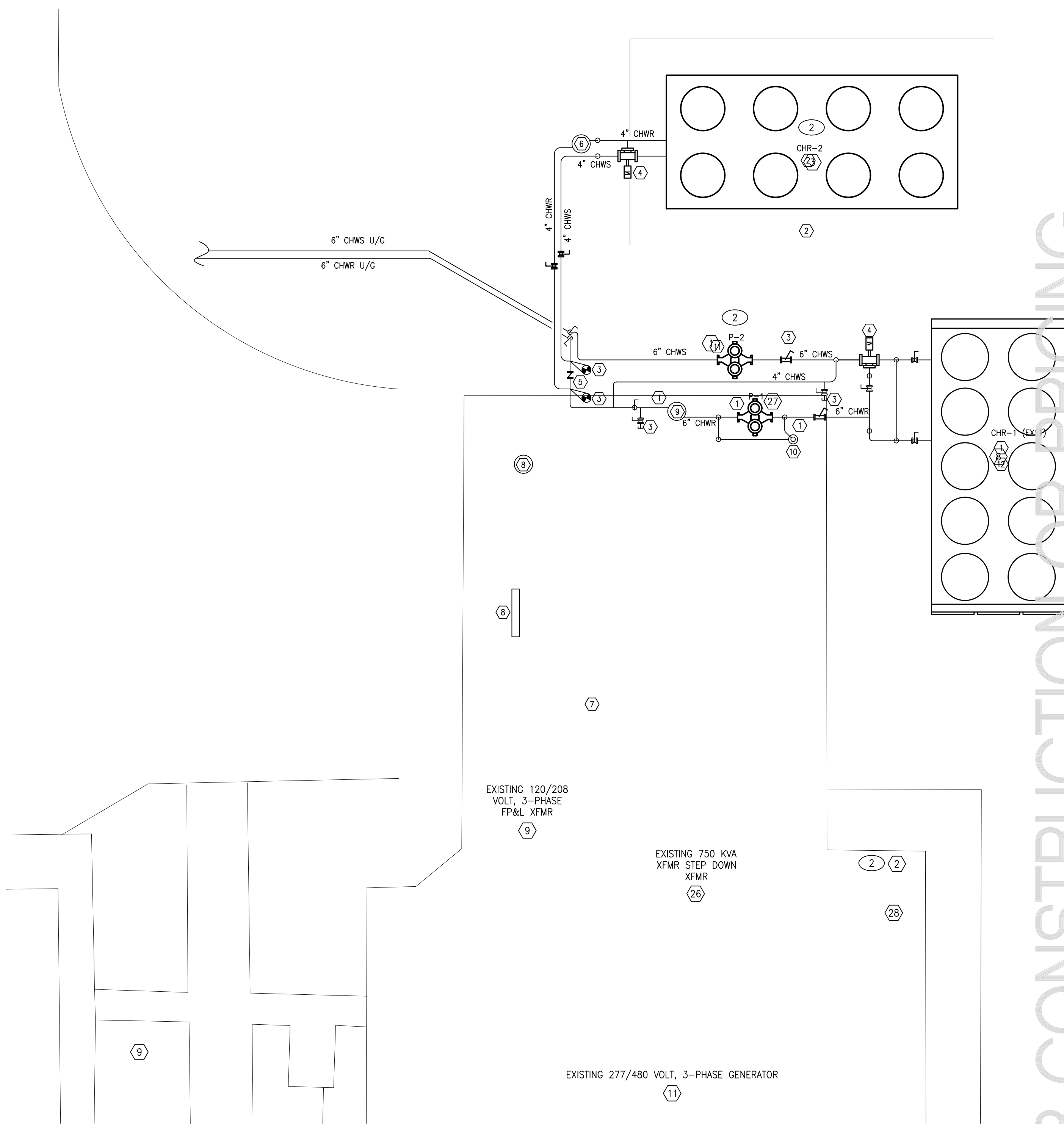


ENLARGED CHILLER PLANT PLAN - EXISTING

SCALE : 1/4" = 1'-0"

CHILLER PLANT KEYNOTES (EXISTING)

1. EXISTING CHILLER (CHR-1) TO REMAIN AND OPERATIONAL WHILE EXISTING CHILLER IS TO BE DISCONNECTED. ALL ASSOCIATED PUMPS, PIPING, CONTROLS AND POWER TO REMAIN INTACT TO CHR-1.
2. EXISTING INOPERATIVE CHILLER AND ALL ASSOCIATED PIPING, ELECTRICAL, CONTROL WIRING, PUMP, VALVES, ETC. MARKED "X" SHALL BE DISCONNECTED AND REMOVED.
3. PIPING FROM REMOVED CHILLER SYSTEM PIPING TO BE CAPPED AND SEALED AT EXISTING POINT OF CONNECTION AT APPROXIMATE LOCATION INDICATED.
4. CONTRACTOR TO REMOVE CHECK VALVE IN SYSTEM BYPASS AT THIS APPROXIMATE LOCATION TO ALLOW (2-WAY FLOW) THROUGH THE PIPE.
5. EXISTING TRANSFORMER TO REMAIN.
6. EXISTING EXPANSION TANK AND WATER MAKEUP TO REMAIN AND BE REUSED FOR EXISTING AND NEW CHILLER PLANT. ENSURE THAT MAKEUP WATER SYSTEM REMAINS INTACT WITH BUILDING AND CHILLER PLANT RENOVATION. CONTRACTOR SHALL REPLACE ALL EXISTING PRESSURE REDUCING VALVES, PRESSURE GAUGES, BYPASS VALVE AND CHECK VALVES ASSOCIATED WITH CHILLED WATER MAKEUP FEED. FIELD VERIFY EXACT LOCATION, NUMBER AND TYPE OF DEVICES.
7. EXISTING AIR SEPARATOR REMAIN AND BE REUSED.
8. EXISTING FILTER TYPE CHEMICAL FEEDER TO REMAIN.
9. EXISTING UNDERGROUND PIPING TO BUILDING TO REMAIN.



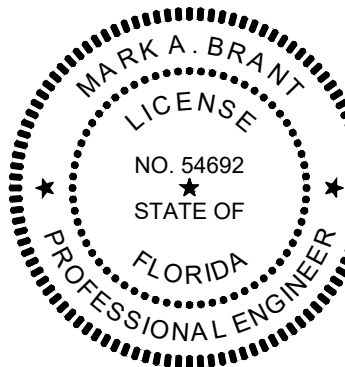
ENLARGED CHILLER PLANT PLAN - RENOVATED

SCALE : 1/4" = 1'-0"

CHILLER PLANT KEYNOTES

1. EXISTING CHILLER (CHR-1) TO REMAIN AND OPERATIONAL WHILE NEW (CHR-2) IS BEING INSTALLED. ALL ASSOCIATED PUMPS, PIPING, CONTROLS AND POWER TO REMAIN INTACT AND WORKING. SCHEDULE WORK TO MINIMIZE DOWNTIME.
2. PROVIDE AND INSTALL NEW CHILLER SYSTEM (CHR-2). REFER TO CHILLER PIPING DETAIL FOR ENLARGED VIEW OF PIPING AND APPURTENANCES REQUIRED AT CHILLER, I.E. SYSTEM BYPASS, FLOW SWITCH, SHUTOFF VALVES, CHECK VALVES, PETE'S PLUGS AND PRESSURE GAUGES. STARTUP SHALL BE PROVIDED BY FACTORY CERTIFIED TECHNICIAN.
3. PROVIDE AND INSTALL NEW CHILLED WATER PIPING, TIE-INTO EXISTING SYSTEM AS NOTED.
4. NEW 3 WAY MOTORIZED VALVE.
5. NEW CHECK VALVE TO BE INSTALLED IN EXISTING PIPING.
6. NEW AIR SEPARATOR. SEE HYDRONIC NOTES FOR SPECIFICATIONS AND DETAILS.
7. EXISTING 208V-3 PHASE TRANSFORMER.
8. EXISTING EXPANSION TANK TO REMAIN. EXISTING MAKEUP WATER PIPING TO THE SYSTEM SHALL REMAIN AND BE REUSED. EXISTING PRESSURE GAUGES, PRESSURE REDUCING VALVES, PIPING, CHECK VALVES, ETC. TO BE REPLACED IN MAKEUP WATER SYSTEM.
9. EXISTING AIR SEPARATOR TO REMAIN.
10. EXISTING CHEMICAL FEED TANK TO REMAIN.
11. SECONDARY BUILDING PUMP TO BE RETROFITTED, REPAIRED AND PROVIDED WITH GENERAL MAINTENANCE PER CHILLED WATER PUMP SCHEDULE INCLUDING NEW 10 HP MOTORS, REVISED WATER FLOW AND VFD.
12. CONTRACTOR TO REPAIR EXISTING CHR-1 BACNET INTERFACE CONTROLLER.

GENERAL NOTE: ALL NEW DDC CONTROLS CONNECTED TO NEW BUILDING AUTOMATION SYSTEM IS TO BE PROVIDED FOR THE ENTIRE CHILLER PLANT INCLUDING BACNET CONTROLLERS FOR EACH CHILLER, PUMPS, VALVES WITH THIS RENOVATION. SEE CONTROLS SCHEMATIC FOR DETAILS OF NEW CONTROL SYSTEM REQUIREMENTS.



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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MARK A. BRANT, PE, ON 2/26/2024.

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