

CONSULTANT

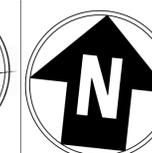
CERTIFICATE OF AUTHORIZATION #: 017869



Friedman Fisher Associates, P.C.

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER OR A LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.



CONTRACT:

HVAC

TITLE: REPLACE BUILDING CHILLERS, BUILDING 144

LOCATION: COOK CHILL PRODUCTION CENTER
145 OLD ORANGEBURG ROAD
ORANGEBURG, NY

CLIENT: OFFICE OF MENTAL HEALTH

MARK	DATE	BID DOCUMENTS	DESCRIPTION
	12/6/2023		
PROJECT NUMBER:	47430 - H		
DESIGNED BY:	CHS		
DRAWN BY:	CHS		
FIELD CHECK:			
APPROVED:			
SHEET TITLE:	ENLARGED PIPING REMOVAL PLANS		

DRAWING NUMBER:	MD-301		
SHEET	7	OF	18

KEYED NOTES

- 1 CHILLED WATER PIPING RISES ABOVE GRADE. UNDERGROUND CHILLED WATER PIPING IS ENCASED WITHIN WATERTIGHT SEALED PIPE CARRIER. PIPE CARRIER RISES ABOVE GRADE APPROXIMATELY 1'-0" WHERE EACH CHILLED WATER PIPE RISES ABOVE GRADE. PIPING SHALL BE REMOVED/MODIFIED SUCH THAT THE PIPING CARRIER AND ITS SEAL ARE NOT DAMAGED. DAMAGED PIPING CARRIER SHALL BE REPAIRED/REPLACED TO PRIOR CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
- 2 REMOVE 6" RGCHSR TO EXISTING ELBOW ABOVE GRADE. EXISTING ELBOW SHALL REMAIN, WITH DISCONNECT POINT ON HORIZONTAL END OF ELBOW. HORIZONTAL RGCHSR PIPE CENTERLINE IS APPROXIMATELY 2'-1/4" ABOVE TOP OF THE CHILLER CONCRETE EQUIPMENT PAD. TAKE MEASURES TO AVOID DAMAGING EXISTING WATERTIGHT SEAL BETWEEN PIPE CARRIER AND EGCHSR PIPING WHERE PIPE DROPS UNDERGROUND.
- 3 REMOVE 4" RGCHS TO EXISTING ELBOW ABOVE GRADE. EXISTING ELBOW SHALL REMAIN, WITH DISCONNECT POINT ON HORIZONTAL END OF ELBOW. HORIZONTAL RGCHSR PIPE CENTERLINE IS APPROXIMATELY 2'-1/4" ABOVE TOP OF THE CHILLER CONCRETE EQUIPMENT PAD. TAKE MEASURES TO AVOID DAMAGING EXISTING WATERTIGHT SEAL BETWEEN PIPE CARRIER AND EGCHS PIPING WHERE PIPE DROPS UNDERGROUND.
- 4 CAPTURE CHILLER R-22 REFRIGERANT AND RECYCLE PROPERLY ACCORDING TO LOCAL AND FEDERAL CODES. REFER TO REFRIGERANT REMOVAL NOTES ON THIS DRAWING FOR ADDITIONAL INFORMATION. REMOVE CHILLER, CHILLER ACCESSORY, AND CONTROL VALVE CONTROLS WIRING (AND ABOVE GRADE/INTERIOR CONDUIT) BACK TO THE EXISTING BUILDING AUTOMATION PANEL WITHIN MECHANICAL ROOM B-14. EXISTING CONCRETE EQUIPMENT PAD TO REMAIN.
- 5 REMOVE 6" RGCHR PIPING AT SUCTION AND DISCHARGE SIDES OF PUMPS P-1 AND P-2. ON PUMP SUCTION SIDE, BUTTERFLY VALVE AND PIPING ABOVE IS EXISTING TO REMAIN. REFER TO 1M501 AND 1M601 FOR ADDITIONAL INFORMATION.
- 6 REMOVE EXPANSION TANK, GLYCOL FEED PUMP, GLYCOL FEED TANK AND STANCHION, CHEMICAL FEEDER, AND THEIR ASSOCIATED ACCESSORIES AND VALVING.
- 7 TURN THE TWO CHILLER CONTROL VALVE ACTUATORS (VALVE BODY TO BE REMOVED) OVER TO THE DIRECTOR'S REPRESENTATIVE (PALLETIZE AND SHRINK WRAP), DELIVER TO LOCATION AS DIRECTED BY THE DIRECTOR'S REPRESENTATIVE.
- 8 REMOVE PUMPS, VALVING AND ASSOCIATED PIPING. REFER TO DETAIL 1M-601 FOR ADDITIONAL INFORMATION. REMOVE CONTROLS WIRING AND CONDUIT BACK TO EXISTING BUILDING AUTOMATION CONTROL PANEL. REMOVE ANCHOR BOLTS/STUDS ETC. FROM CONCRETE PAD. PATCH/GROUT HOLES/DEPRESSIONS/MARKS ETC. IN THE EXISTING CONCRETE PAD FROM THE PUMP AND/OR ITS REMOVAL. PROVIDE A LEVEL SURFACE FOR THE REPLACEMENT PUMP INSTALLATION.

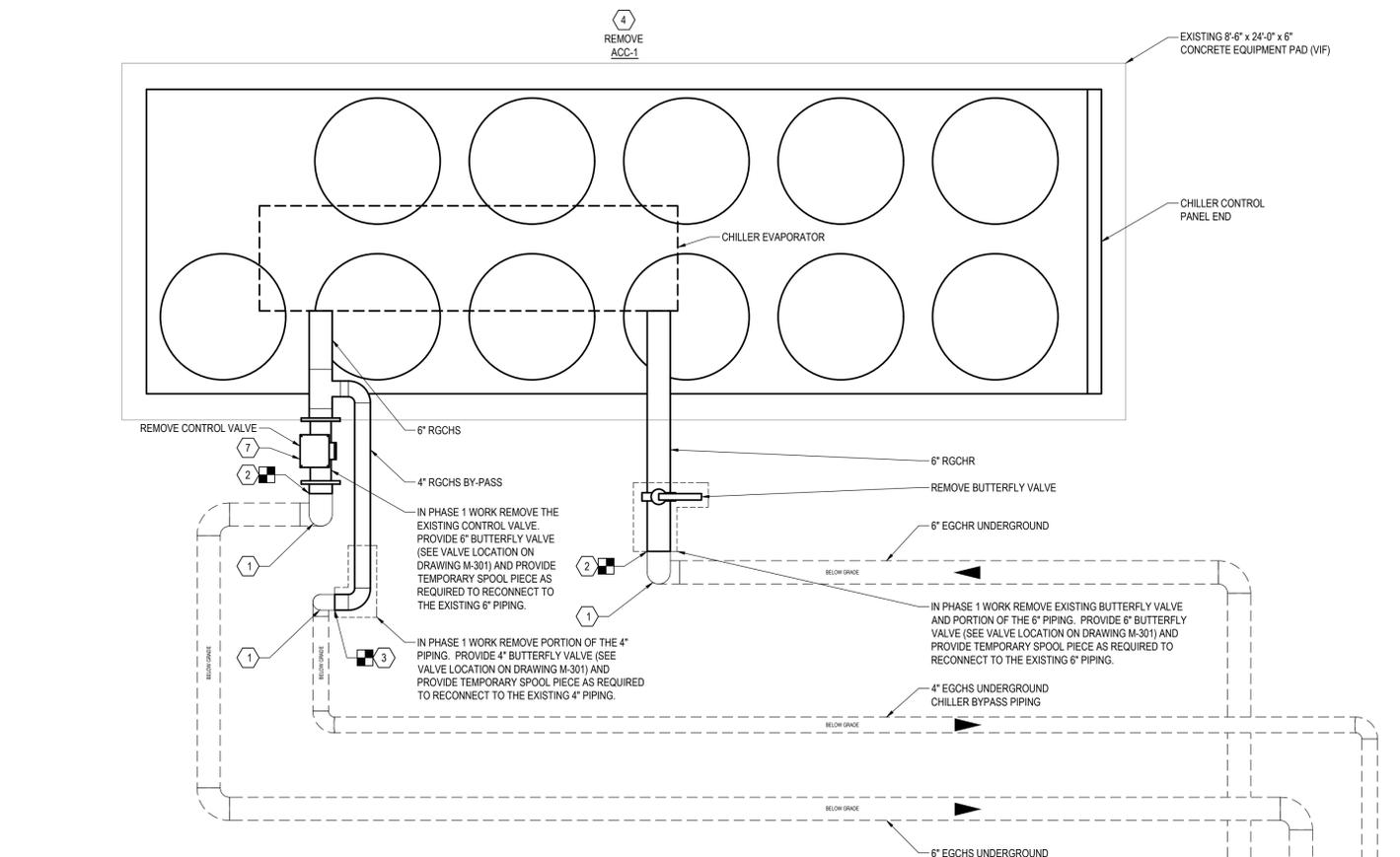
REFRIGERANT REMOVAL NOTES

ACC-1 & ACC-2 - CONTRACTOR TO RECYCLE R-22 REFRIGERANT

1. RECYCLE:
 - 1.1 PROVIDE COPY OF THE COMPANY LICENSE AND TECHNICIAN LICENSE COMPLETING THE REFRIGERANT WORK
 - 1.2 CONTRACTOR IS RESPONSIBLE FOR RECOVERY, STORAGE, AND TRANSPORTATION OF THE REFRIGERANT TO BE RECYCLED.
 - 1.3 IF A LEAK OCCURS DURING RECOVERY, NOTIFY DIRECTOR'S REPRESENTATIVE AND DOCUMENT QUANTITY OF LEAK, TYPE OF REFRIGERANT, UNIT NUMBER, LOCATION OF LEAK, DATE, AND TIME. REPORT LEAK TO EPA/DEC IN COORDINATION WITH DIRECTOR'S REPRESENTATIVE.

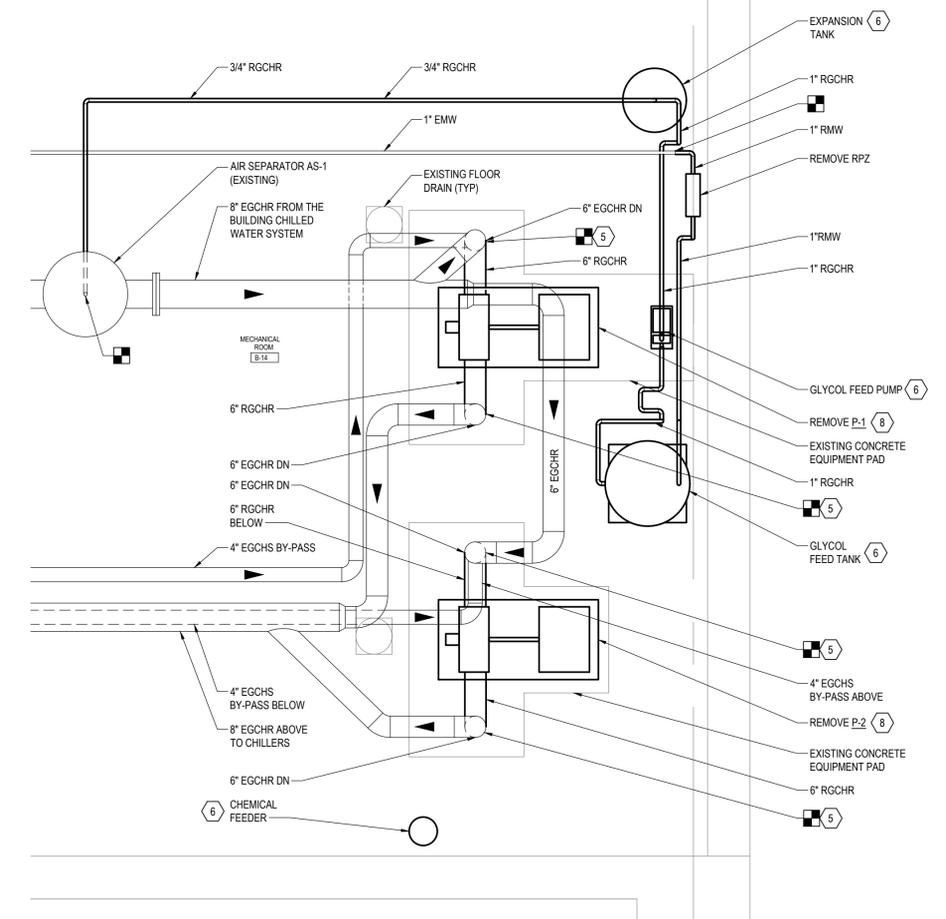
GENERAL NOTES

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO INITIATING WORK FOR THIS PROJECT. CONTRACT DOCUMENTS HAVE BEEN DEVELOPED FROM EXISTING DRAWINGS AND FIELD INVESTIGATION. NOTIFY THE DIRECTOR'S REPRESENTATIVE OF INCONSISTENCIES IDENTIFIED BETWEEN THE CONTRACT DOCUMENTS AND FIELD CONDITIONS THAT IMPACT THE ABILITY TO PERFORM THE WORK INDICATED ON THE CONTRACT DOCUMENTS.
2. PERFORM CUTTING AND PATCHING REQUIRED FOR THE WORK, UNLESS OTHERWISE NOTED. PATCHING SHALL MATCH SURROUNDING EXISTING SURFACES IN KIND. PROVIDE FIRE STOPPING FOR PENETRATIONS THROUGH INTERIOR WALLS.
3. COORDINATE UTILITY SHUTDOWNS WITH DIRECTOR'S REPRESENTATIVE.
4. NO MATERIAL OR EQUIPMENT SHALL BE IN CONTACT WITH EXISTING FIRE SPRINKLER PIPING.
5. PRIOR TO REMOVAL OF EQUIPMENT AND PIPING, REVIEW WITH THE DIRECTOR'S REPRESENTATIVE ANY ITEMS THEY MAY WISH TO SALVAGE.
6. PROVIDE HEAVY DUTY SPREADER PLATES BELOW THE ENTIRETY OF LIFTING/RIGGING EQUIPMENT, VEHICLES INCLUDING TRUCKS. THE EQUIPMENT BEING RIGGED, AND OTHER EQUIPMENT, ON THE GRADE/PAVEMENT/GROUND TO SPREAD OUT THE LOAD. HEAVY DUTY SPREADER PLATES SHALL BE MINIMUM 1/2" THICK STEEL PLATES (OR EQUAL) TO PREVENT DAMAGING UNDERGROUND UTILITIES. THE EXISTING GRADE/PAVEMENT/GROUND AND UNDERGROUND UTILITIES SHALL NOT BE DAMAGED BY LIFTING/RIGGING EQUIPMENT, VEHICLES INCLUDING TRUCKS. THE EQUIPMENT BEING RIGGED, OR OTHER EQUIPMENT DAMAGE TO GRADE/PAVEMENT/GROUND OR UNDERGROUND UTILITIES SHALL BE RESTORED TO PRIOR CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
7. CEILING WORK AREA WITHIN THE MECHANICAL ROOMS IS CONGESTED WITH PIPING, DUCTWORK, AND CONDUIT. PIPING WITHIN THE MECHANICAL ROOMS IS INSTALLED BETWEEN 10'-0" TO 15'-0" AFF.
8. REMOVE CONTROL WIRING AND CONDUIT FROM EQUIPMENT/DEVICE/SENSOR/ELECT. BACK TO THE EXISTING BUILDING AUTOMATION PANEL SERVING IT.
9. PIPING AND EQUIPMENT REMOVALS INCLUDE THE FOLLOWING: PIPING INSULATION, PIPING INSULATION JACKETS, PIPING FITTING INSULATION COVERS, AND PUMP INSULATION BOX.
10. PROVIDE TEMPORARY MEANS TO RECOVER AND STORE GLYCOL-WATER SOLUTION ON-SITE. COORDINATE STORAGE VESSELS LOCATION WITH THE DIRECTOR'S REPRESENTATIVE. SYSTEM SIZE IS APPROXIMATELY 2,250 GALLONS OF GLYCOL-WATER SOLUTION, WHICH REQUIRES APPROXIMATELY TWO 17'-9" x 8'-4" W x 6'-7" STORAGE TANKER TRAILERS. PROVIDE ADDITIONAL REPLACEMENT GLYCOL-WATER SOLUTION AS NECESSARY TO RE-FILL THE SYSTEM TO ACCOUNT FOR SOLUTION LOSS DURING DRAIN/RE-FILL. PROVIDE APPROXIMATELY 15% OF THE SYSTEM TOTAL VOLUME (SOLUTION IS 30% INHIBITED PROPYLENE GLYCOL 70% WATER).



1 CHILLERS ACC-1 & ACC-2 REMOVAL ENLARGED PLAN
SCALE: 1/2" = 1'-0"

NOTE: REFER TO PIPING DIAGRAM 1M-501 FOR VALVING, PIPING ACCESSORIES, ETC.



2 PUMPS P-1 & P-2 REMOVAL ENLARGED PLAN
SCALE: 1/2" = 1'-0"

NOTE: REFER TO PIPING DIAGRAM 1M-501 FOR VALVING, PIPING ACCESSORIES, ETC.



FILE: R:\PROJECTS\143 - OCS ORANGEBURG CHILLER REPLACEMENT CAD\143_1MD-301.DWG USER: CHRIS TOPHER STROM PLOTTED: 12/14/2023 11:34:03 AM SAVED: 12/14/2023 11:32:22 AM