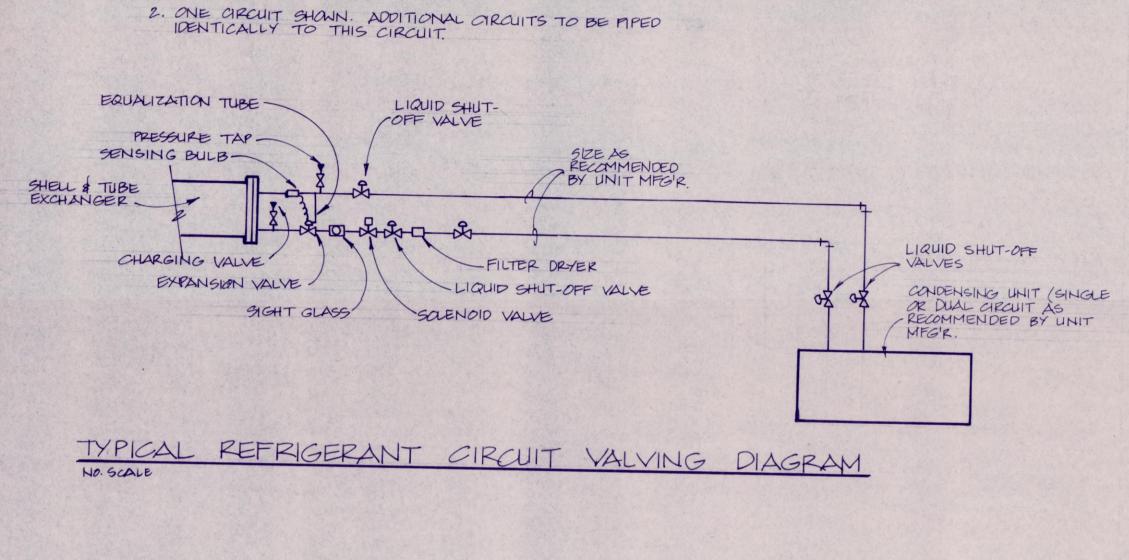
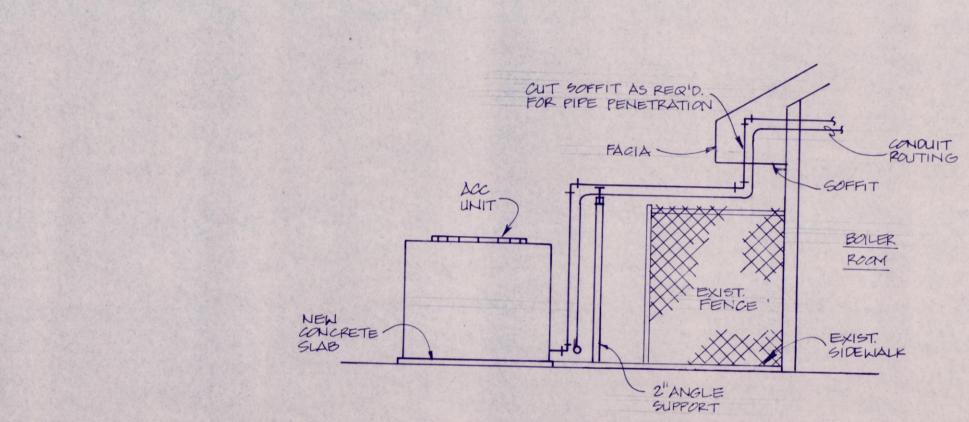
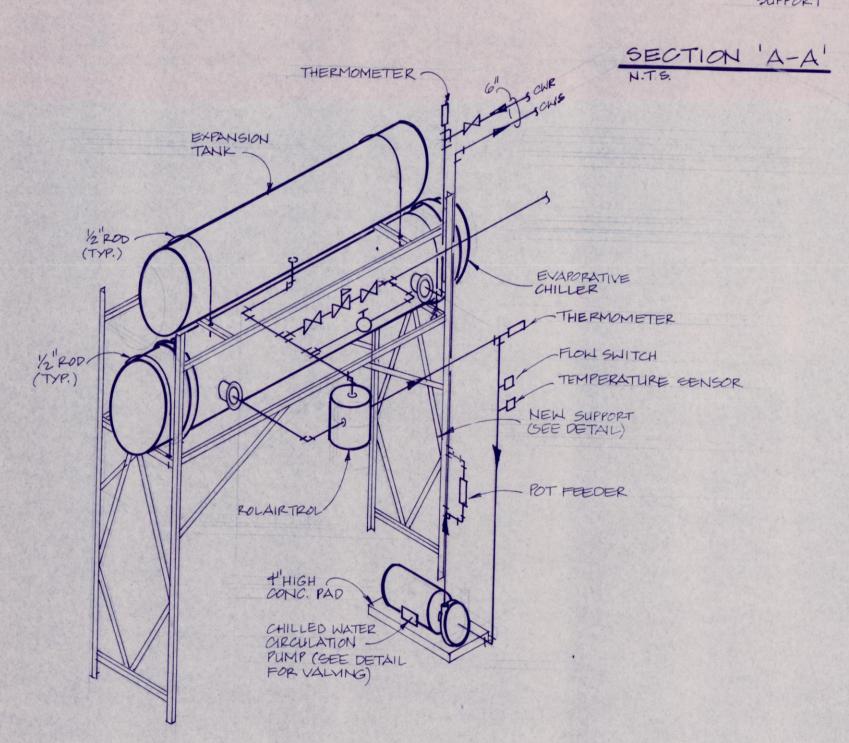


REVISIONS BY

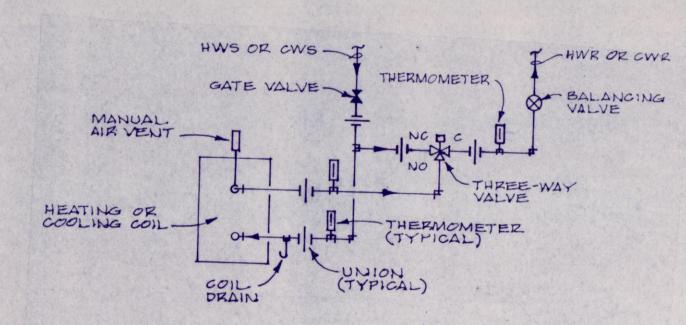


1. TRAP REFRIG. SUCTION LINES AT BASE OF RISERS & ADOITIONALLY AS REQ'O. FOR PROPER OIL RETURN.

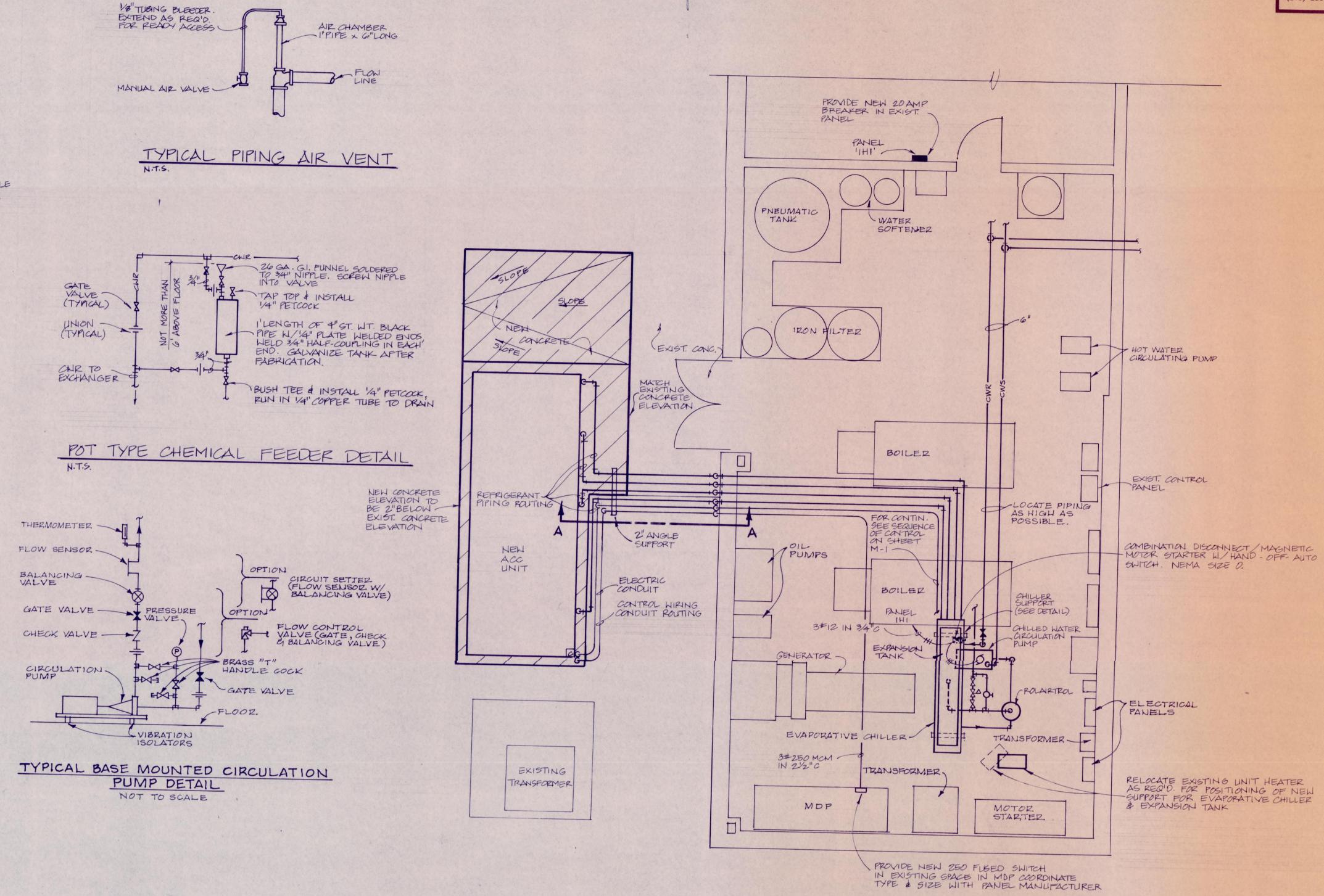




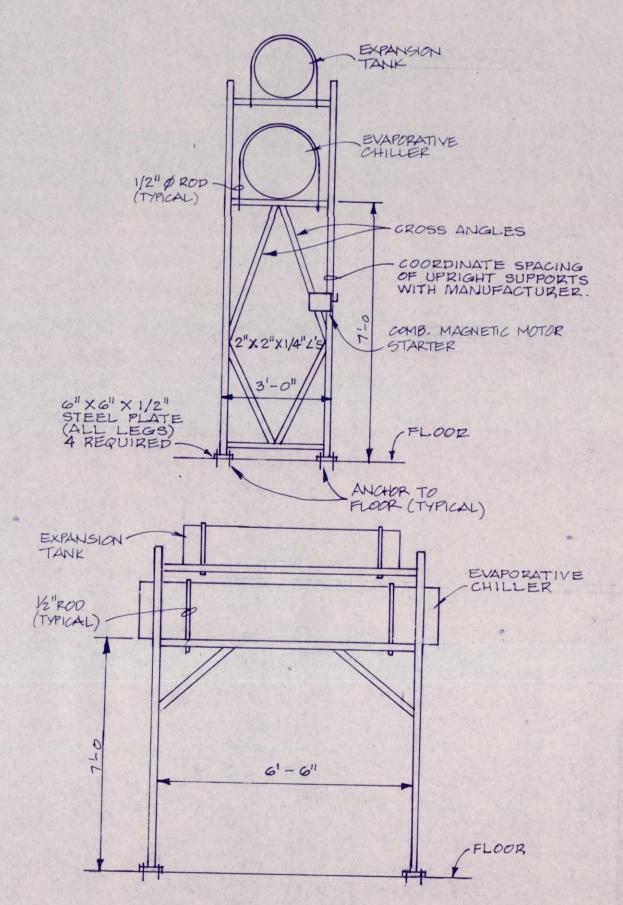
BOILER RM. EQUIPMENT SCHEMATIC



CHILLED WATER COIL PIPING DETAIL



## ENLARGED BOILER ROOM PLAN



EVAPORATIVE CHILLER SUPPORT DETAIL

1. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE PLANS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORESEEN HAD PROPER EXAMINATION BEEN MADE.

2. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. ALL COSTS FOR LOCATING, REMOVING, REPLACING, OR RELOCATING THESE UTILITIES SHALL BE INCIDENTAL TO CONSTRUCTION. ALL UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED WITH LIKE MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

DRAWINGS ARE DIAGRAMMATIC AND GENERALLY INDICATIVE OF THE WORK. PIPING AND SYSTEMS SHALL FOLLOW ARRANGEMENT AS MUCH AS POSSIBLE, HOWEVER ACTUAL FIELD CONDITIONS SHALL DICTATE. PROVIDE NECESSARY MODIFICATIONS TO MEET FIELD CONDITIONS AND AVOID CONFLICT WITH OTHER TRADES. IN ADDITION, THE DRAWINGS DO NOT SHOW ALL VALVES, FITTINGS, APPURTENANCES, DUCT TRANSITIONS, ACCESS PANELS, ELEVATION CHANGES, AND VARIOUS OTHER ITEMS CALLED FOR BY THE DRAWINGS AND SPECIFICATIONS. WHERE REQUIRED, THESE ITEMS SHALL BE PROVIDED WITHOUT ADDITIONAL COST FOR A COMPLETE AND OPERATING SYSTEM.

4. COORDINATE ROUTING OF PIPING, DUCTWORK, ETC. PRIOR TO STARTING

5. ALL PLUMBING AND HEATING WORK AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE ORDINANCES AND REGULATIONS HAVING JURISDICTION. CONTRACTOR SHALL OBTAIN ALL APPROVALS REQUIRED FROM REGULATING AGENCIES BEFORE STARTING WORK.

6. MECHANICAL TRADE SHALL PROVIDE SOFFIT AND WALL FLASHING AS REQUIRED FOR PIPE PENITRATIONS OF EXTERIOR WALLS.

7. M.C. SHALL REMOVE AND REPLACE CEILING AND LIGHTS AS REQUIRED FOR INSTALLATION OF NEW PIPING.

8. MECHANICAL CONTRACTOR SHALL PROVIDE ALL CUTTING AND/OR PATCHING OF EXISTING WALLS, CEILING AND FLOORS AS REQUIRED FOR INSTALATION OF NEW PIPING.

9. CONNECTIONS TO EQUIPMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS.

10. ALL HANGER SYSTEMS FOR PIPING SHALL BE SECURED TO BUILDING STRUCTURAL SYSTEM.

11. VERIFY VOLTAGE AND PHASE CHARACTERISTICS OF THE ELECTRICAL SERVICE AND

COORDINATE WITH MECHANICAL EQUIPMENT AS REQUIRED.

CONTRACTOR SHALL PROVIDE CONDENSATE DRAIN FROM A/C UNITS TO FLOOR DRAIN.
 ALL PIPING SHALL BE EASILY DRAINABLE.
 THE EQUIPMENT CONNECTIONS AS SHOWN ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, IN SOME INSTANCES THE SUPPLIER MAY SUBSTITUTE EQUIPMENT FROM WHAT IS SHOWN. THEREFORE, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT

RELOCATION DIRECTLY ON THE CONTRACTOR.

15. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS, J-BOXES, WIRING, DISCONNECT SWITCHES, MOTOR STARTERS, NEW SWITCHES IN THE DISTRIBUTION PANELS, AND J-BOXES AS REQUIRED FOR THE INSTALATION OF THE NEW EQUIPMENT AS RELATED TO THE AIR-CONDITIONING SYSTEM.

16. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C.
AND STATE AND LOCAL CODES AS THEY APPLY.

17. ALL FLEXIBLE METALLIC AND PVC CONDUIT WHERE ALLOWED BY LOCAL CODE IS TO BE

PROVIDED WITH SEPARATE GROUND WIRE.

18. ALL WORK SHALL BE IN ACCORDANCE WITH THE INDIANA CONSTRUCTION RULES, NATIONAL ELECTRICAL CODE AND OTHER STATE AND LOCAL CODES AS APPLICABLE.

19. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED.

20. COORDINATE ALL WORK WITH OWNER AND OTHER CONTRACTORS AS REQUIRED.

21. PROVIDE AND INSTALL RACEWAYS AS REQUIRED FOR THE NEW WORK. CONDUIT SHALL BE INTERMEDIATE METALLIC (IMC), OR ELECTRICAL METALLIC TUBING (EMT) AS ALLOWED BY THE NATIONAL ELECTRICAL CODE. MINIMUM SIZE SHALL BE THREE-QUARTER (3/4) INCH.

22. HEAVY WALL PVC CONDUIT MAY BE USED BELOW GRADE, IN CONCRETE SLABS OR WHERE NOT EXPOSED TO PHYSICAL DAMAGE.

23. CONDUCTORS SHALL BE THHN, THWN, OR XHHW, SIZED AS INDICATED.
24. CLASS 1 REMOTE-CONTROL AND SIGNAL CIRCUIT CONDUCTORS SHALL BE NO LESS THAN NO. 14 AWG. CLASS 2 LOW-ENERGY REMOTE-CONTROL AND SIGNAL CIRCUIT CONDUCTORS SHALL BE NOT LESS THAN NO. 16 AWG.

25. PROVIDE WIRING DEVICES AND PLATES AS REQUIRED. UNLESS OTHERWISE

INDICATED, DEVICES SHALL BE STANDARD NEMA CONFIGURATIONS FOR THE

PARTICULAR APPLICATION.

26. PROVIDE HEAVY DUTY TYPE SAFETY SWITCHES AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY CODE WITHIN SIGHT OF ALL EQUIPMENT REQUIRING A DISCONNECT. OUTDOOR ENCLOSURES SHALL BE NEMA 3R. SAFETY SWITCHES SHALL BE SQUARE D OR GENERAL ELECTRIC.

27. OVERLOAD DEVICES SHALL BE OF THE MANUALLY RESET TYPE UNLESS OTHERWISE NOTED. SIZES FOR THERMAL OVERLOADS SHALL BE DETERMINED FOR THE ACTUAL MOTOR PROVIDED WITH EACH PIECE OF EQUIPMENT IN THE FIELD.

28. PROVIDE MANUAL OR MAGNETIC MOTOR STARTERS AS CALLED FOR AN THE DRAWINGS. STARTERS SHALL BE COMPLETE WITH THERMAL OVERLOADS FOR EACH UNGROUNDED PHASE. CONTROL CONTACTS AND TRANSFORMERS SHALL BE PROVIDED TO MEET THE NEEDS OF EACH PARTICULAR APPLICATION AND SHALL BE COORDINATED BY THE ELECTRICAL TRADE AS REQUIRED. UNLESS NOTED OTHERWISE STARTER CONTROL CIRCUITS SHALL BE 120 VOLT. ALL STARTERS SHALL BE EQUIPED WITH "ON-OFF-

29. PROVIDE NEW DIRECTORIES IN EXISTING PANELS TO WHICH NEW EQUIPMENT IS

30. PROVIDE GROUNDING FOR ALL EQUIPMENT AND SERVICES IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

31. COORDINATE EXACT PLACEMENT OF ELECTRICAL ITEMS PRIOR TO INSTALLATION. ANY CONFLICTS THAT CANNOT BE RESOLVED BETWEEN TRADES MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER/ARCHITECT IN WRITING AND RESOLVED BEFORE PROCEEDING.

32. FIRESTOP AROUND ALL PENETRATIONS THROUGH FIRE RATED WALLS.

33. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH ACCEPTED PRACTICE AND MANUFACTURER'S RECOMMENDATIONS.

34. THE TEMPERATURE CONTROL TRADE SHALL PROVIDE ALL WIRING AS ERQUIRED FOR A COMPLETE SYSTEM OF TEMPERATURE REGULATION. THE TEMPERATURE CONTROL TRADE SHALL PROVIDE ALL NECESSARY DRAWINGS AND COORDINATION TO THE ELECTRICAL CONTRACTOR FOR DETERMINING CONNECTION POINTS, WIRE COUNTS, ETC.

35. MAINTAIN ACCESSIBILITY TO ALL EQUIPMENT FOR OPERATION, MAINTENANCE AND

36. REPAINT AND PATCHED AREAS TO MATCH ORIGINAL FINISH WHERE HOLES OR CHASES HAVE BEEN CUT TO RECEIVE NEW WORK. REPAINT PATCHED AREAS WITH TWO (2) COATS OF PAINT TO MATCH SURROUNDING AREAS; BLEND AS REQUIRED.

## MECHANICAL LECENIO

MECHANICAL LEGEND

EA EXHAUST AIR

EC ELECTRICAL CONTRACTOR/TRADE

EXIST EXISTING

GC GENERAL CONTRACTOR/TRADE

MC MECHANICAL CONTRACTOR/TRADE

OA OUTSIDE AIR

RA RETURN AIR

SA SUPPLY AIR

D EQUIPMENT DRAIN LINE

SHUT OFF VALVE

IN-LINE CIRCULATION PUMP

THERMOSTAT

DATE 3-31-91

RENOVATION PROJECTS
CHESTERTON, INDIANA

DATE 3-31-94

SCALE AS SHOWN

DRAWN

KSK

JOB

9318

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