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STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY,  
MANAGEMENT, AND BUDGET

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MDOC  
SOUTHERN REGIONAL BUSINESS  
OFFICE - BUILDING 218  
FREEZER / COOLER  
REFRIGERATION REPLACEMENT

JACKSON, MICHIGAN

FILE NUMBER: 472.RWG  
Date: AUGUST 29, 2025

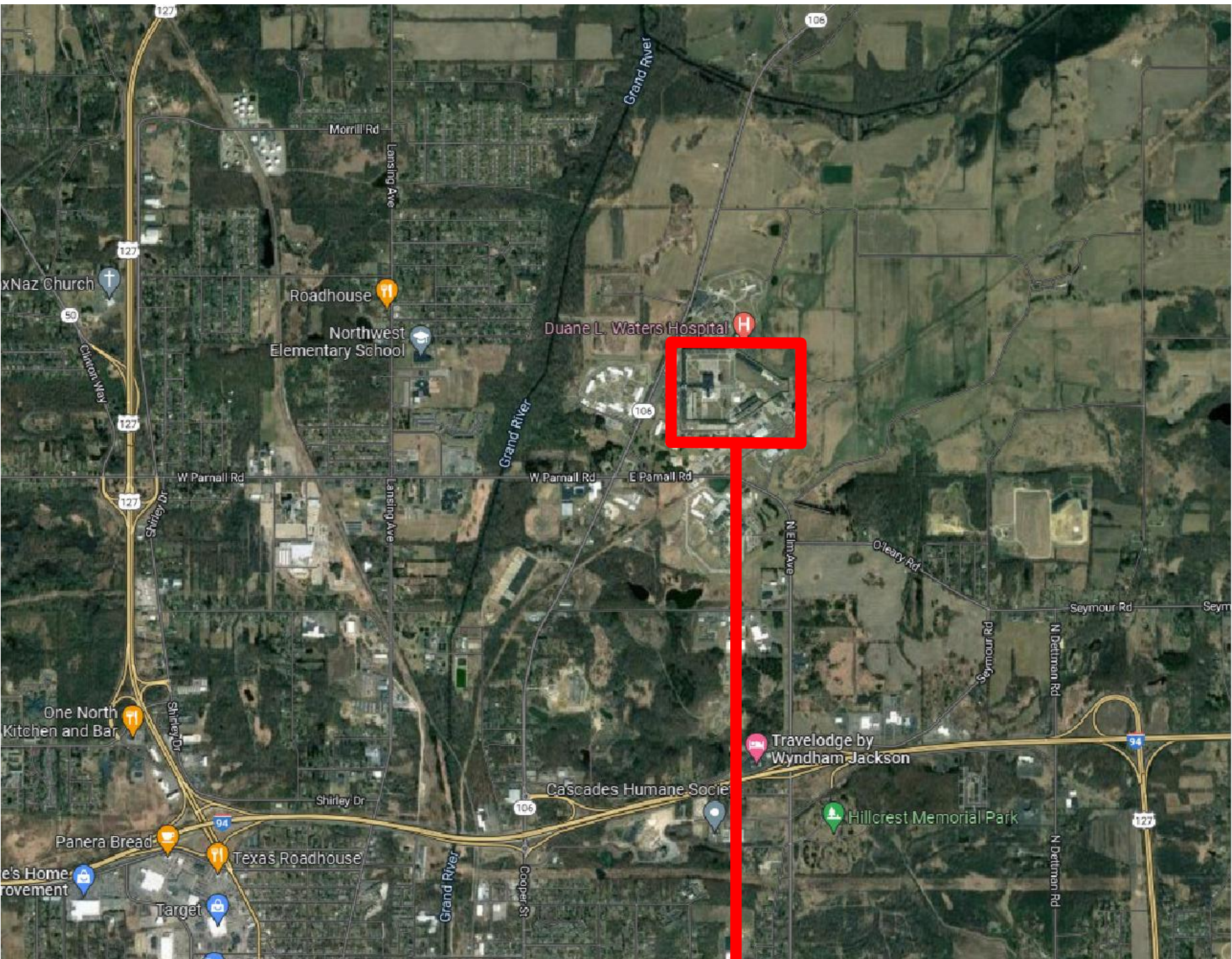
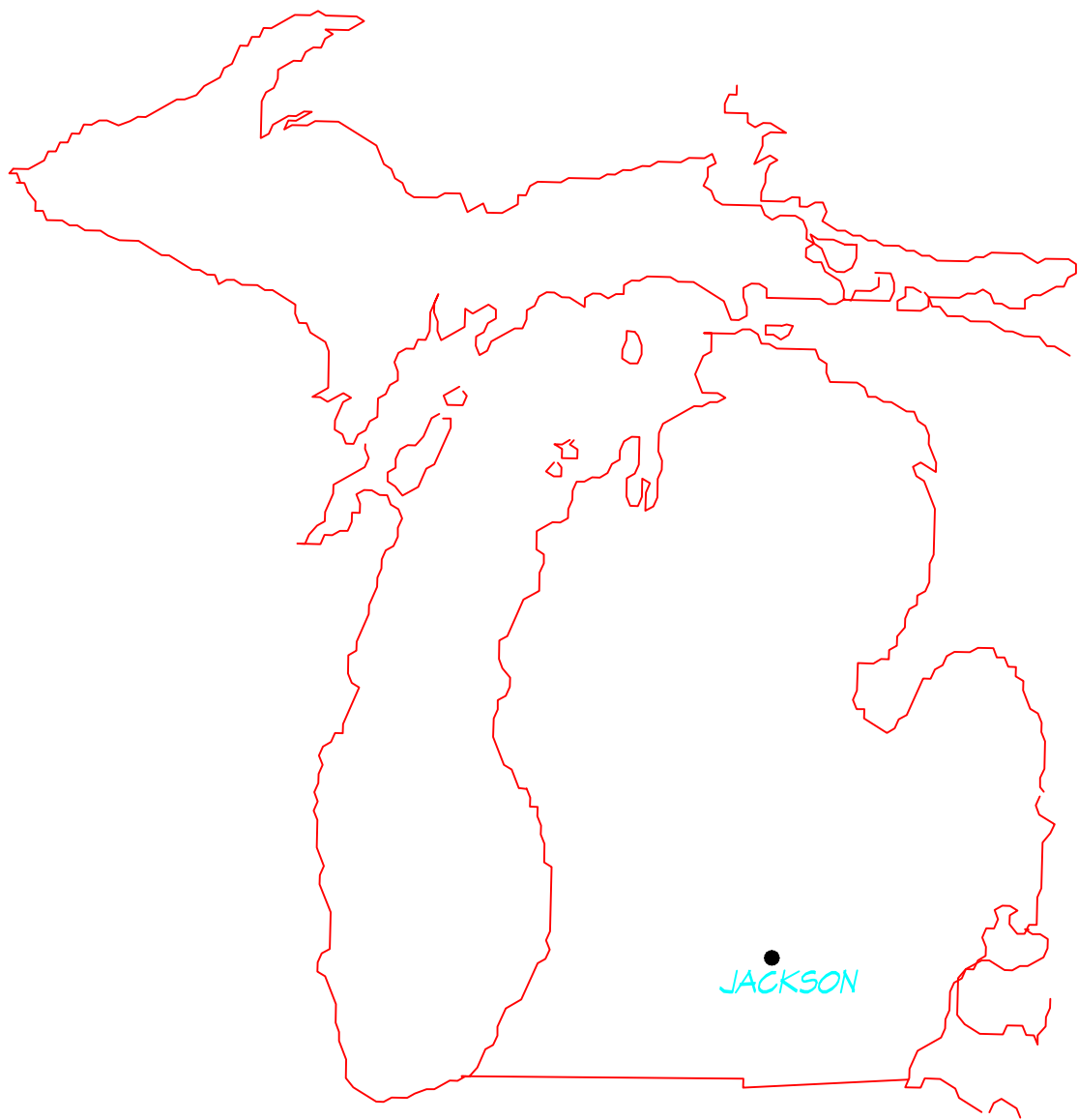
CODE AUTHORITIES HAVING JURISDICTION

|                  |                                                         |                                              |
|------------------|---------------------------------------------------------|----------------------------------------------|
| BUILDING         | State of Michigan<br>Construction Codes<br>517-241-4317 | CODE ENFORCED<br>2018 MICHIGAN BUILDING CODE |
| BARRIER FREE     | State of Michigan<br>Construction Codes<br>517-241-4317 |                                              |
| MECHANICAL CODE: | State of Michigan<br>Construction Codes<br>517-241-4325 | 2021 MICHIGAN MECHANICAL CODE                |
| PLUMBING CODE:   | State of Michigan<br>Construction Codes<br>517-241-4330 | 2021 MICHIGAN PLUMBING CODE                  |
| ELECTRICAL CODE: | State of Michigan<br>Construction Codes<br>517-241-4330 | 2023 NATIONAL ELECTRICAL CODE                |

PROJECT CONTACT LIST

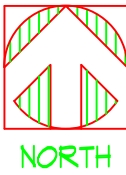
OWNER  
STATE OF MICHIGAN  
ROB GRUESBECK  
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MECHANICAL / ELECTRICAL ENGINEER  
EAI, ENGINEERING APPLICATIONS EAI, LLC  
BRIAN KNOX, PE  
1216 ABBOTT ROAD  
EAT LANSING, MICHIGAN 48023  
517-331-4422



SHEET INDEX

|                           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| T0.1                      | TITLE SHEET                                                     |
| MECHANICAL AND ELECTRICAL |                                                                 |
| ME0.1                     | MECHANICAL AND ELECTRICAL NOTES, SYMBOLS, SCHEDULES AND DETAILS |
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| ME1.2                     | 1/8" SCALE MECHANICAL AND ELECTRICAL DEMOLITION PLAN            |
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MDOC SOUTHERN BUSINESS OFFICE  
TUNNEL ACCESS PLAN

SCALE: NONE

STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
FACILITIES AND BUSINESS SERVICES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM LACH, RA, NCARB, DIRECTOR



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**EAI**  
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EAI, LLC

MDOC  
SOUTHERN REGIONAL BUSINESS  
OFFICE - BUILDING 218 FREEZER  
COOLER REFRIGERATION REPLACEMENT  
Jackson, Michigan

|                    |                     |                    |              |                    |                      |                    |              |
|--------------------|---------------------|--------------------|--------------|--------------------|----------------------|--------------------|--------------|
| DESIGNED           | BAK.                | DRAWN              | SAK.         | CHECKED            | TRB.                 | APPROVED           | BAK.         |
| DATE               | 9-16-2022           | DATE               | 10-1-2022    | DATE               | 1-20-2023            | DATE               |              |
| ISSUED FOR         | PRELIMINARY         | ISSUED FOR         | CONSTRUCTION | ISSUED FOR         | PRE-AWARD            | ISSUED FOR         | FINAL RECORD |
| IDENTIFICATION NO. | FILE NO.<br>472.RWG | IDENTIFICATION NO. | INDEX NO.    | IDENTIFICATION NO. | ENGINEER PROJECT NO. | IDENTIFICATION NO. | 2411A        |
| SHEET              | T0.1                | SHEET              |              | SHEET              |                      | SHEET              |              |

GENERAL ELECTRICAL NOTES  
AND SPECIFICATIONS

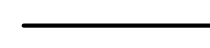
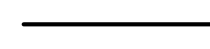
- ALL NON-FIRE RATED WALLS ARE TO BE PATCHED WITH LIKE MATERIAL TO MAINTAIN ORIGINAL RATINGS.
- ALL WALL AND FLOOR PENETRATIONS ARE TO BE SEALED TO MAINTAIN ORIGINAL RATINGS.
- ALL CONDUITS SHALL BE FIELD ROUTED ALONG EXISTING PIPING AND STRUCTURAL STEEL.
- CONTRACTORS SHALL VISIT THE PROJECT SITE AND DETERMINE THE EXACT EXTENT OF THE DEMOLITION NORK REQUIRED BEFORE BIDDING THE PROJECT.
- REMOVE ALL EXISTING OBSOLETE EXPOSED CONDUIT, WIRE AND UNUSED EQUIPMENT WHERE WORK IS BEING DONE EXCEPT ITEMS NOTED OTHERWISE.
- WHERE BUILDING SURFACES ARE DAMAGED BY THE REMOVAL OF OLD WORK, SURFACES SHALL BE PATCHED TO MATCH ADJACENT.
- EXISTING WORK WHICH IS PRESENTLY CONCEALED AND WHICH WILL REMAIN CONCEALED AND DOES NOT INTERFERE WITH ANY NEW WORK OF ANY TRADE NEED NOT BE REPAIRED. HOWEVER, ALL CONDUIT SHALL BE CAPPED BELOW FINISH SURFACE AND THEN PATCHED TO MATCH, OR AS NOTED.
- EXISTING OPENINGS, WHICH ARE TO BE REUSED, SHALL BE MODIFIED OR ENLARGED TO SUIT THE NEW SYSTEMS AS REQUIRED. PROVIDE ALL REQUIRED CUTTING AND PATCHING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING THE EXISTING WALLS TO MATCH THE ADJACENT SURFACES BEHIND ALL SURFACE MOUNTED EQUIPMENT.
- CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT AND LOADS PRIOR TO INSTALLING SERVICE TO EQUIPMENT.
- DRAWINGS ARE BASED ON EXISTINGS RECORD DOCUMENT AND CASUAL FIELD OBSERVATION. REPORT ANY DISCREPANCIES TO ENGINEER FOR CLARIFICATION.
- CONDUITS AND BOXES:
  - 3/4 MINIMUM TRADE SIZE.
  - EHT TYPE CONDUIT IS APPROVED.
  - NO PVC ALLOWED INSIDE OF BUILDINGS.
  - CONDUITS SHALL BE ATTACHED WITH TWO-HOLE STRAPS. SINGLE HOLE STRAPS ARE NOT PERMITTED.
  - NO SET SCREWS ARE ALLOWED.
  - TAMPER-PROOF SCREWS REQUIRED FOR EXPOSED CONDUIT AND BOXES MOUNTED BELOW TEN FEET.
  - DRIVE PIN ANCHORS USED ON MASONRY OR CONCRETE WALLS/ CEILINGS.
- ALL CONDUITS ABOVE 10 FOOT SHALL MEET THE FOLLOWINGS REQUIREMENTS:
  - STRAP DISTANCE: 5 FEET.
  - FASTENERS: 2 HOLE WITH SECURITY SCREWS.
  - CONDUIT: INTERIOR EMT, EXTERIOR EXPOSED / CONCEALED - 6RG.
  - FITTINGS: COMPRESSION.
  - BELL BOXES: FS TYPE.
  - NO KNOCKOUTS.
  - SECURE CONDUIT WITHIN 12 INCHES OF BOXES AND ENCLOSURES.
- ALL CONDUITS BELOW 10 FOOT SHALL MEET THE FOLLOWINGS REQUIREMENTS:
  - STRAP DISTANCE: 3 FEET.
  - FASTENERS: 2 HOLE WITH SECURITY SCREWS.
  - CONDUIT: INTERIOR EMT, EXTERIOR EXPOSED / CONCEALED - 6RG.
  - FITTINGS: COMPRESSION.
  - BELL BOXES: FS TYPE.
  - NO KNOCKOUTS.
  - SECURE CONDUIT WITHIN 12 INCHES OF BOXES AND ENCLOSURES.
- MINIMUM RACEWAY SIZE: 3/4" TRADE SIZE. REFER TO SPECIFICATION 260593- RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS.
- ALL EXPOSED WIRINGS SHALL BE IN CONDUIT. OPEN LOW VOLTAGE WIRINGS ABOVE CEILINGS IS ACCEPTABLE. REFER TO TC DRAWINGS FOR SUPPORT DETAILS.
- CONDUITS SHALL BE INSTALLED STRAIGHT AND LEVEL AND SHALL BE PARALLEL OR PERPENDICULAR TO THE BUILDING LINES.
- CONTRACTOR SHALL VERIFY ALL VOLTAGES BEFORE CONNECTING ANY EQUIPMENT.
- ALL LOCATIONS WHERE THE WALL CAN NOT BE FISHED SHALL BE SURFACE MOUNTED CONDUIT FOLLOWING NOTED 11 AND 12 ABOVE.
- ALL WALLS THAT ARE ACCESSIBLE SHALL BE FISHED AND DEVICE CUT INTO WALL.
- ALL EXTERIOR CONCEALED CONDUIT UNDERGROUND SHALL BE RNC, TYPE EPC-40-PVC.
- ALL ELECTRICAL OUTAGE SHALL NOT LAST OVER 2-HOURS. FOR OUTAGES OVER 2-HOURS PORTABLE GENERATORS SHALL BE USED TO REPLACE ANY ELECTRICAL SERVICE EXCEEDING THIS TIME PERIOD.
- UPON RELOCATING LIGHTS AND CAMERAS, CONTRACTOR SHALL VERIFY THAT THE LIGHTS AND CAMERAS ARE WORKING PROPERLY PRIOR TO LEAVING THE SITE.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED COMPONENTS, RACEWAYS, WIRE, AND HARDWARE, AS INDICATED ON DRAWINGS.
- WORK DONE WITHOUT APPROVED SHOP DRAWINGS IS AT CONTRACTORS RISK.
- CONTRACTOR SHALL USE MDOC APPROVED POLES AND FIXTURES, NO ALTERNATES WILL BE ALLOWED. ALL OTHER STATE OF MICHIGAN AGENCY SPECIFICATIONS DO NOT APPLY.

ELECTRICAL SYMBOLS

| SYMBOL                                                                            | DESCRIPTION                                                              |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------|
|  | EQUIPMENT CONNECTION                                                     |
|  | JUNCTION BOX                                                             |
|  | NON-FUSED DISCONNECT SWITCH (UNLESS OTHERWISE NOTED).                    |
| A.C.T.                                                                            | ABOVE COUNTER TOP                                                        |
| M.P.                                                                              | WEATHERPROOF                                                             |
| A.F.F.                                                                            | ABOVE FINISHED FLOOR                                                     |
| B.C.T.                                                                            | BELOW COUNTER TOP                                                        |
|  | UNSWITCHED POWER WIRING                                                  |
|  | SWITCHED POWER WIRING                                                    |
|  | HOMERUN-2W2, 3/4" C. TO 1P20A CIRCUIT BREAKER, PANEL "LFA", CIRCUIT #15. |

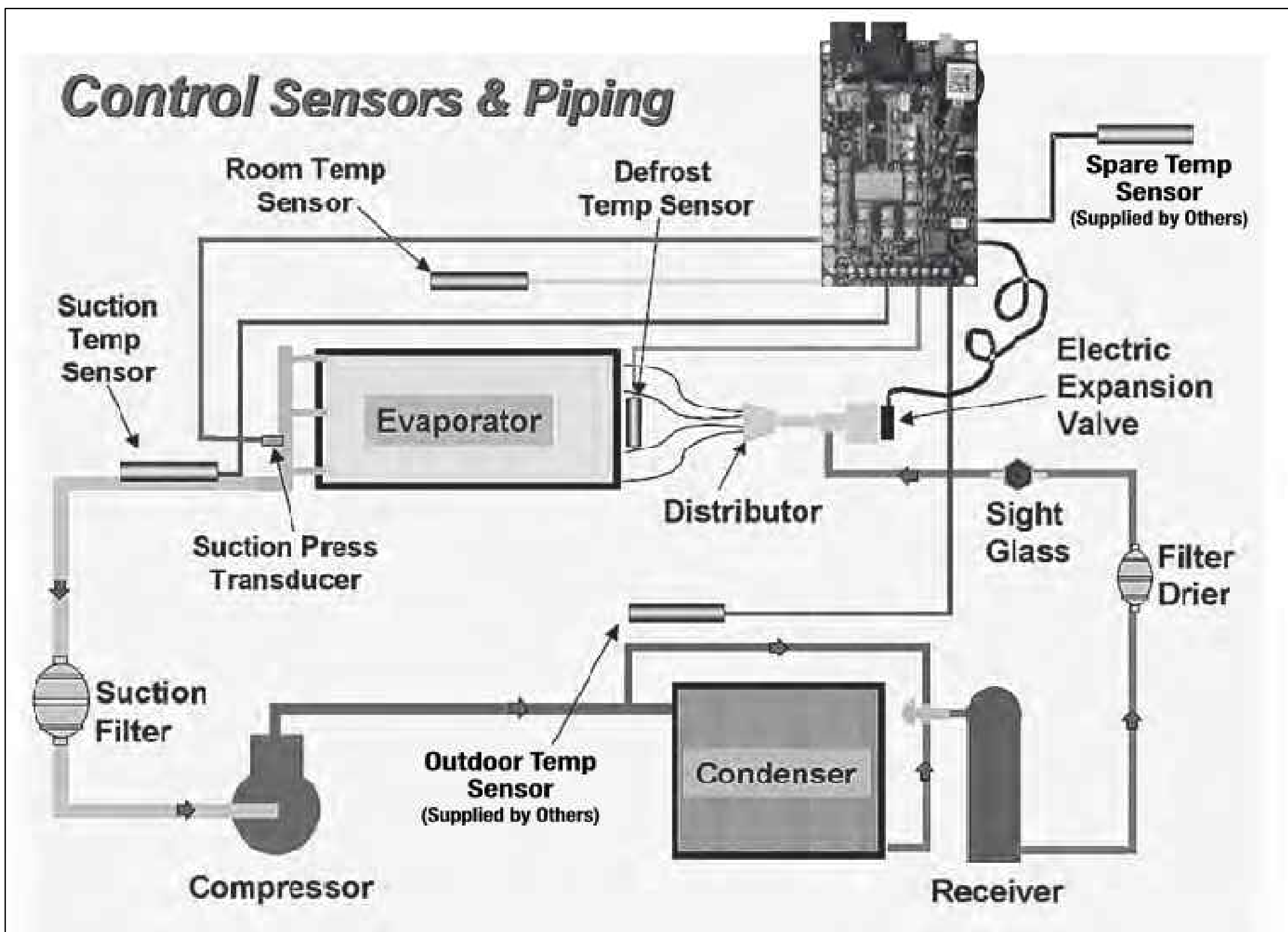
| MECHANICAL EQUIPMENT SCHEDULE                                                                |                                                                      |                                                                                                                                                                                                                                                        |  |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| EV1A<br>EV2A                                                                                 | EV1B<br>EV2B                                                         | TRENTON REFRIGERATION PRODUCTS MODEL TPLP422MAS1DR8ESP<br>EVAPORATOR WITH 21960 BTU AT 10° F., 2820 CFM, R404A REFRIGERANT,<br>(4) FANS, 1/15 HP, 2.4 AMPS, 208 VOLT, SINGLE PHASE EACH FAN.                                                           |  |
| EV3A<br>EV3C<br>EV4B<br>EV4C<br>EV5A<br>EV5C<br>EV6B<br>EV6C<br>EV7A<br>EV7B<br>EV8B<br>EV8C | EV3B<br>EV4A<br>EV4C<br>EV5B<br>EV6A<br>EV6C<br>EV7B<br>EV8A<br>EV8C | TRENTON REFRIGERATION PRODUCTS MODEL TPLP631LES2DR8ESP<br>EVAPORATOR WITH 32000 BTU AT -10° F., 4080 CFM, R407A<br>REFRIGERANT, (6) FANS, 1/15 HP, 3.6 AMPS, 208 VOLT, SINGLE PHASE EACH<br>FAN, DEFROST AT 5230 WATTS, 15.0 AMPS, 208 VOLTS, 3-PHASE. |  |
| CU-1<br>CU-2                                                                                 |                                                                      | TRENTON REFRIGERATION PRODUCTS MODEL TEZA0508HT4DB<br>CONDENSING UNITS WITH 30000 BTU AT 10° F. SUCTION TEMPERATURE, 45°<br>AMBIENT TEMPERATURE, R407A REFRIGERANT, 19.6 MCA, 20 MOPF, 480<br>VOLT, 3-PHASE.                                           |  |
| CU-3<br>CU-5<br>CU-7                                                                         | CU-4<br>CU-6<br>CU-8                                                 | TRENTON REFRIGERATION PRODUCTS MODEL TEZA085LBHT4D<br>CONDENSING UNITS WITH 35600 BTU AT -10° F. SUCTION TEMPERATURE, 45°<br>AMBIENT TEMPERATURE, R407A REFRIGERANT, 28.7 MCA, 45 MOPF, 480<br>VOLT, 3-PHASE.                                          |  |

MECHANICAL SYMBOLS

|                                                                                     |    |                              |
|-------------------------------------------------------------------------------------|----|------------------------------|
|  | CD | CONDENSATE DRAIN             |
|  | L  | REFRIGERANT PIPING - LIQUID  |
|  | S  | REFRIGERANT PIPING - SUCTION |
|  |    | POINT OF NEW CONNECTION      |

MECHANICAL GENERAL NOTES

- INSTALL NEW SYSTEMS AS SHOWN ON DRAWINGS AND AS REQUIRED FOR COMPLETE, FULLY OPERATIONAL SYSTEMS.
- DUCTS, PIPING AND EQUIPMENT ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES AND ROUTING BEFORE SUBMITTING BIDS. RELOCATE AND/OR REPLACE EXISTING EQUIPMENT, DUCTWORK, LIGHTING, PIPING, VALVES, ETC. AS REQUIRED TO MAINTAIN OPERATION OF ALL SYSTEMS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, STRUCTURES, ELEVATIONS, ETC. AND REPORT TO THE ARCHITECT / ENGINEER ANY CONFLICTS WHICH MAY AFFECT THE WORK PRIOR TO STARTING. ANY DIMENSIONS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY AND SHALL BE FIELD VERIFIED PRIOR TO START OF DEMOLITION OR NEW WORK.
- PROVIDE ALL LABOR, MATERIALS, TOOLS, INSURANCE AND ERECTION EQUIPMENT NECESSARY TO CONSTRUCT A COMPLETE READY-TO-OPERATE EQUIPMENT SYSTEM.
- ARRANGE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED. ALL WORK SHALL BE PROVIDED BY A LICENSED CONTRACTOR AND IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, AND WITH THE PROVISIONS OF THE EDITIONS ADAPTED BY THE STATE OF MICHIGAN.
- CONTRACTOR(S) SHALL REMOVE AND HAUL AWAY ALL DEBRIS, EQUIPMENT, PIPES, DUCTS, ETC. FROM THE SITE IMMEDIATELY UPON REMOVAL. FAILURE TO REMOVE AND CLEAN DEBRIS FROM AREAS PROMPTLY SHALL RESULT IN OWNER'S REPRESENTATIVE OPTION TO REMOVE THEM AT CONTRACTOR'S EXPENSE.
- FILL ALL UNUSED HOLES IN FLOORS AND WALLS WITH GROUT AND SEAL.
- EXISTING PIPING AND EQUIPMENT SHOWN ARE BASED ON AVAILABLE DESIGN PLANS AND FIELD VISITS. ADDITIONAL EXISTING EQUIPMENT, DUCT BRANCHES OR OPENINGS MAY REQUIRE RELOCATION FOR PROPER INSTALLATION WORK. ADDITIONAL REMOVAL, RELOCATION, PATCHING OR REPAIR, AS MAY BE REASONABLY NECESSARY, SHALL BE PERFORMED AS DIRECTED BY THE ARCHITECT / ENGINEER AT NO ADDITIONAL COST TO THE PROJECT.
- IN FINISHED AREAS, CUT AND PATCH EXISTING WALLS AS REQUIRED, TO INSTALL ALL NEW MECHANICAL WORK, UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL LEAVE ADEQUATE CLEARANCE AROUND ALL NEW EQUIPMENT, FITTINGS, VALVES, ELECTRICAL PANELS, ETC. FOR SERVICE AND OPERATION.
- CONTRACTOR SHALL COORDINATE IN ADVANCE ALL CRANE WORK AND UNIT REMOVAL/INSTALLATION WITH CONSTRUCTION MANAGER.
- ALL EQUIPMENT, DUCTWORK, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.



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**EAI**  
Engineering Applications  
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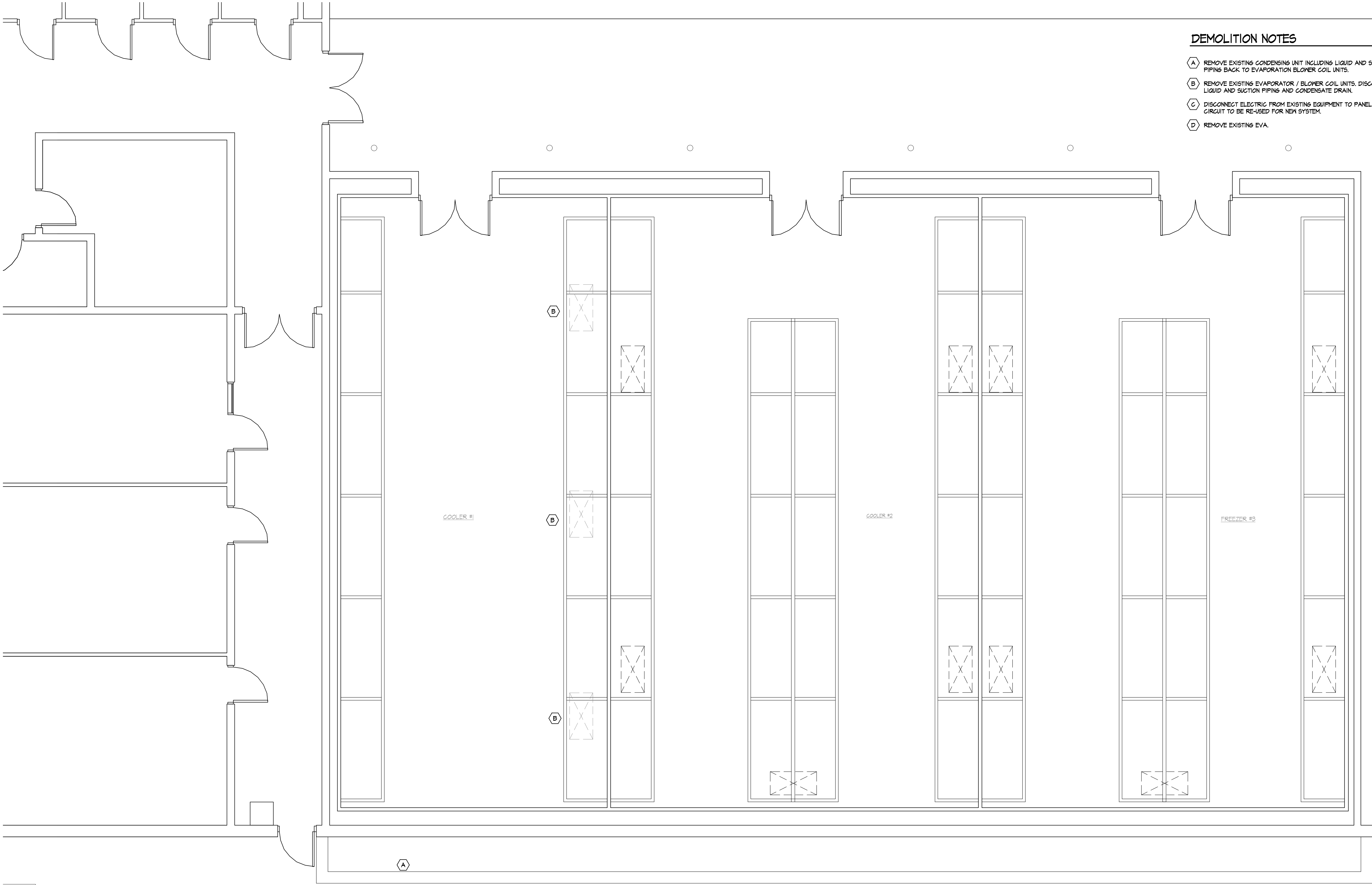
MDOC  
SOUTHERN REGIONAL BUSINESS  
OFFICE - BUILDING 218 FREEZER  
COOLER REFRIGERATION REPLACEMENT  
Jackson, Michigan

|          |      |
|----------|------|
| DESIGNED | BAK. |
| DRAWN    | SAK. |
| CHECKED  | TAB. |
| APPROVED | BAK. |

|            |                                               |
|------------|-----------------------------------------------|
| DATE       | 9-16-2022                                     |
| ISSUED FOR | <input type="checkbox"/> PRELIMINARY          |
|            | <input type="checkbox"/> CONSTRUCTION         |
|            | <input checked="" type="checkbox"/> PRE-AWARD |
|            | <input type="checkbox"/> FINAL RECORD         |

|                    |           |                      |
|--------------------|-----------|----------------------|
| IDENTIFICATION NO. | FILE NO.  | ENGINEER PROJECT NO. |
|                    | 472.RWG   | 2411A                |
|                    | INDEX NO. |                      |

SHEET  
ME0.1



DEMOLITION NOTES

- A REMOVE EXISTING CONDENSING UNIT INCLUDING LIQUID AND SUCTION PIPING BACK TO EVAPORATION BLOWER COIL UNITS.
- B REMOVE EXISTING EVAPORATOR / BLOWER COIL UNITS. DISCONNECT LIQUID AND SUCTION PIPING AND CONDENSATE DRAIN.
- C DISCONNECT ELECTRIC FROM EXISTING EQUIPMENT TO PANEL. CIRCUIT TO BE RE-USED FOR NEW SYSTEM.
- D REMOVE EXISTING EVA.



SHEET TITLE PLAN



DEMOLITION PLAN

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

|       |                     |                    |            |      |                   |                  |                   |                    |                                                                                                                              |                                                                                                               |                                                                                                                                                                                                   |
|-------|---------------------|--------------------|------------|------|-------------------|------------------|-------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SHEET | IDENTIFICATION NO.  |                    | ISSUED FOR | DATE | DESIGNED<br>DRAWN | B.A.K.<br>S.M.K. | CHECKED<br>T.R.B. | APPROVED<br>B.A.K. | MDOC<br>SOUTHERN REGIONAL BUSINESS<br>OFFICE - BUILDING 218 FREEZER<br>COOLER REFRIGERATION REPLACEMENT<br>Jackson, Michigan | <br>726 Albert Road<br>East Lansing, Michigan 48823<br>(517) 337-4422 phone<br>(517) 337-1111 fax<br>EAI, LLC | <br>STATE OF MICHIGAN<br>DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET<br>FACILITIES AND BUSINESS SERVICES ADMINISTRATION<br>DESIGN AND CONSTRUCTION DIVISION<br>ADAM LACH, RA, NCARB, DIRECTOR |
|       | FILE NO.<br>472.RWG | INDEX NO.<br>2411A |            |      |                   |                  |                   |                    |                                                                                                                              |                                                                                                               |                                                                                                                                                                                                   |

ME1.1







LOAD CATEGORY  
OTHER  
OTHER  
OTHER  
OTHER  
OTHER  
OTHER  
OTHER  
OTHER  
OTHER  
OTHER  
MECHANICAL

EXISTING PANEL "KPP12"

LOCATION: ELECTRIAL ROOM  
SUPPLY FROM: EXISTING RPD20

MOUNTING: SURFACE  
ENCLOSURE: NEMA 1

A.I.C. RATING:  
NOTES:

VOLTS: 208 PHASE: 3 WIRE: 4 AMPS: 225 MAIN: MCB

| BRKR |   | DESCRIPTION                       | PANEL NOTES | CIRCUIT         |    | PHASE LOADS |       |      | CIRCUIT |                      | PANEL NOTES | DESCRIPTION    | BRKR |                 |  |
|------|---|-----------------------------------|-------------|-----------------|----|-------------|-------|------|---------|----------------------|-------------|----------------|------|-----------------|--|
| A    | P |                                   |             | VA              |    | A           | B     | C    |         | VA                   |             |                | A    | P               |  |
| 20   | 2 | COOLER CONDENSATE HEAT TRACE      | 2           | 1800            | 1  | 2700        |       |      | 2       | 900                  | 1           | EXISTING EI-3A | 20   | 1               |  |
| 20   | 2 | -                                 |             | 1800            | 3  |             | 2700  |      | 4       | 900                  | 1           | EXISTING EI-3B | 20   | 1               |  |
| 20   | 2 | COOLER CONDENSATE HEAT TRACE      | 2           | 1800            | 5  |             |       | 2700 | 6       | 900                  | 1           | EXISTING EI-3B | 20   | 1               |  |
| 20   | 2 | -                                 |             | 1800            | 7  | 1800        |       |      | 8       |                      | 1           | SPARE          | 20   | 3               |  |
| 20   | 2 | FREEZER CONDENSATE HEAT TRACE     | 2           | 1800            | 9  |             | 1800  |      | 10      |                      |             | -              | 20   | 3               |  |
| 20   | 2 | -                                 |             | 1800            | 11 |             |       | 1800 | 12      |                      |             | -              | 20   | 3               |  |
| 20   | 2 | FREEZER CONDENSATE HEAT TRACE     | 2           | 1800            | 13 | 1800        |       |      | 14      |                      | 1           | SPARE          | 20   | 3               |  |
| 20   | 2 | -                                 |             | 1800            | 15 |             | 1800  |      | 16      |                      |             | -              | 20   | 3               |  |
| 20   | 2 | FREEZER CONDENSATE HEAT TRACE     | 2           | 1800            | 17 |             |       | 1800 | 18      |                      |             | -              | 20   | 3               |  |
| 20   | 2 | -                                 |             | 1800            | 19 | 2700        |       |      | 20      | 900                  | 1           | EXISTING EI-6A | 20   | 1               |  |
| 20   | 2 | FREEZER CONDENSATE HEAT TRACE     | 2           | 1800            | 21 |             | 1800  |      | 22      |                      | 1           | SPARE          | 15   | 1               |  |
| 20   | 2 | -                                 |             | 1800            | 23 |             |       | 1800 | 24      |                      | 1           | SPARE          | 15   | 3               |  |
| 20   | 1 | EXISTING EXHAUST VENT 'B' (EH-16) | 1           | 1656            | 25 | 1656        |       |      | 26      |                      |             | -              | 15   | 3               |  |
| 100  | 2 | SPARE                             | 1           |                 | 27 |             | 0     |      | 28      |                      |             | -              | 15   | 3               |  |
| 100  | 2 | -                                 |             |                 | 29 |             |       | 0    | 30      |                      | 1           | SPARE          | 20   | 1               |  |
| 100  | 2 | SPARE                             | 1           |                 | 31 | 0           |       |      | 32      |                      | 1           | SPARE          | 30   | 3               |  |
| 100  | 2 | -                                 |             |                 | 33 |             | 0     |      | 34      |                      |             | -              | 30   | 3               |  |
| 20   | 1 | SPARE                             | 1           |                 | 35 |             |       | 0    | 36      |                      |             | -              | 30   | 3               |  |
| 20   | 1 | SPARE                             | 1           |                 | 37 | 0           |       |      | 38      |                      | 1           | SPARE          | 30   | 3               |  |
| 20   | 1 | SPARE                             | 1           |                 | 39 |             | 0     |      | 40      |                      |             | -              | 30   | 3               |  |
| 15   | 1 | SPARE                             | 1           |                 | 41 |             |       | 0    | 42      |                      |             | -              | 30   | 3               |  |
|      |   |                                   |             | CONNECTED       |    |             | 10656 | 8100 | 8100    | TOTAL CONNECTED LOAD |             |                |      | 26856 VOLT-AMPS |  |
|      |   |                                   |             | TOTAL CONNECTED |    |             | 26856 |      |         |                      |             |                |      | 74.54 AMPS      |  |

LOAD CALCULATIONS

| LOAD TYPE         | CONNECTED VA |  | DEMAND VA | N.E.C. SECTION |
|-------------------|--------------|--|-----------|----------------|
| MECHANICAL        | 1656         |  | 1656      | 215.2(A)(1)    |
| LIGHTING          | 0            |  | 0         | 215.2(A)(1)    |
| RECEPTACLE        | 0            |  | 0         | TABLE 220.44   |
| KITCHEN EQUIPMENT | 0            |  | 0         | TABLE 220.56   |
| OTHER             | 25200        |  | 25200     |                |
| TOTAL VA          | 26856        |  | 26856     |                |
| TOTAL AMPERAGE    | 74.54        |  | 74.54     |                |

PANEL NOTES

1. EXISTING CIRCUIT BREAKER  
2. REPLACE EXISTING CIRCUIT BREAKER WITH NEW 2P20A CIRCUIT BREAKER  
3. EV2A,B DEFROST WILL NOT RUN WHEN EV1A,B DEFROST RUNS  
4. EV5A,B,C DEFROST WILL NOT RUN WHEN EV3A,B,C OR EV4A,B,C DEFROST RUNS

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SOUTHERN REGIONAL BUSINESS  
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Jackson, Michigan

|          |        |
|----------|--------|
| DESIGNED | B.A.K. |
| DRAWN    | S.M.K. |
| CHECKED  | T.R.B. |
| APPROVED | B.A.K. |

|              |           |
|--------------|-----------|
| ISSUED FOR   | DATE      |
| PRELIMINARY  | 9-16-2022 |
| CONSTRUCTION | 10-3-2022 |
| PRE-AWARD    | 1-20-2023 |
| FINAL RECORD |           |

|                    |          |           |                      |
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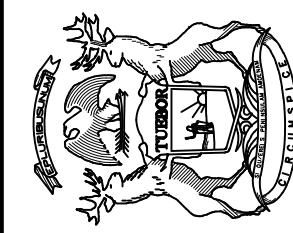
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EAI

Engineering Applications

EAI, LLC



STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
FACILITIES AND BUSINESS SERVICES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM LACH, RA, NCARB, DIRECTOR