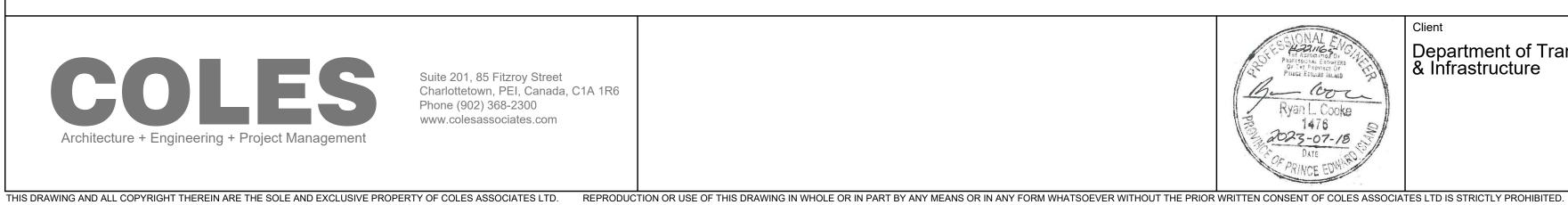


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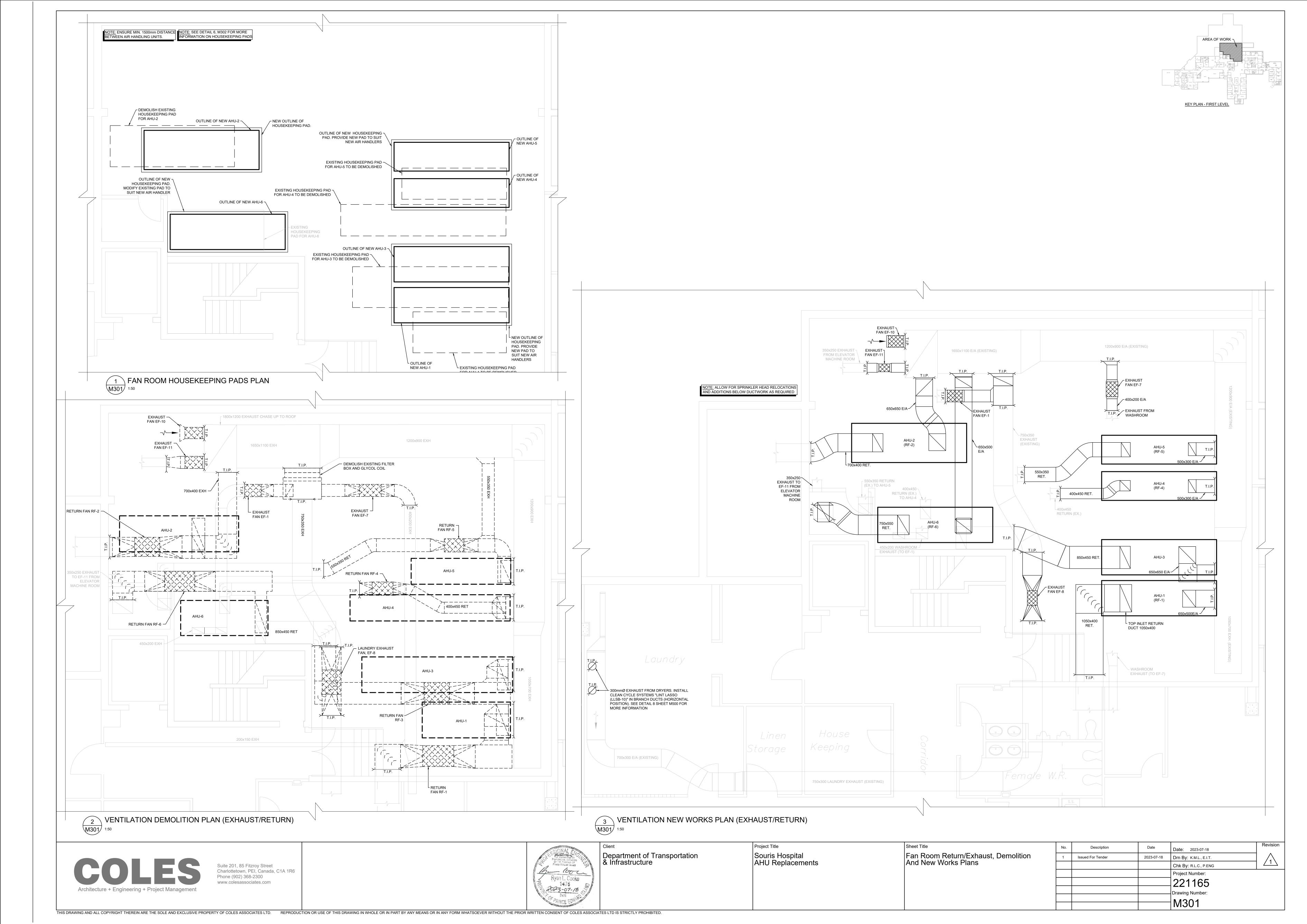
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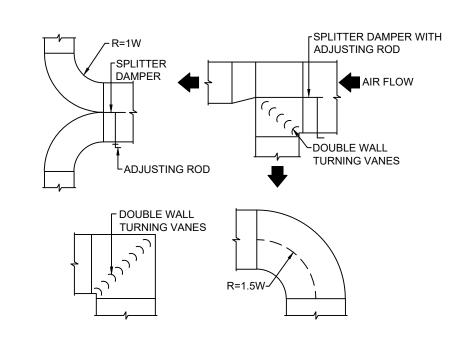
Souris Hospital AHU Replacements

Project Title

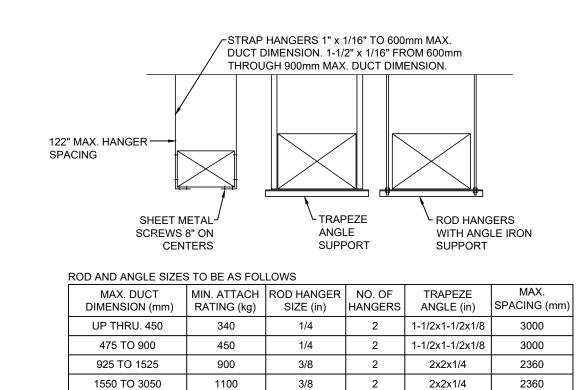
Sheet Title Fan Room Supply, Demolition And New Works Plans

Revision Description Date: 2023-07-18 2023-07-18 Drn By: K.M.L., E.I.T. Issued For Tender Chk By: R.L.C., P.ENG Project Number: 221165 Drawing Number: M300

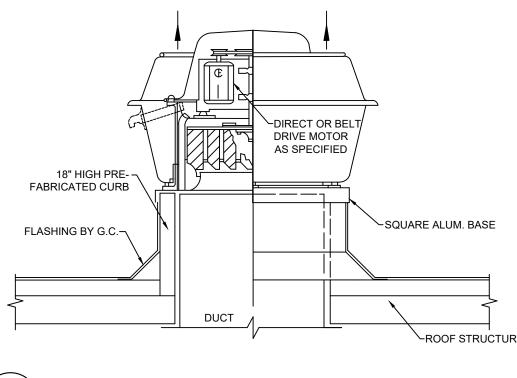




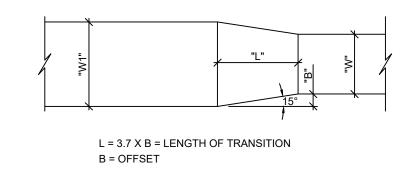




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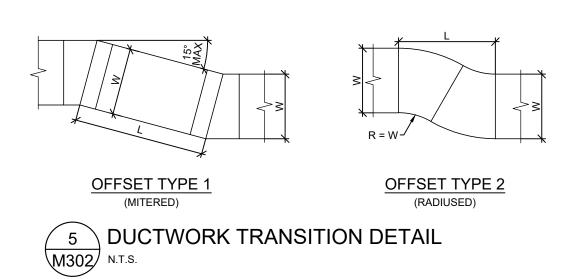


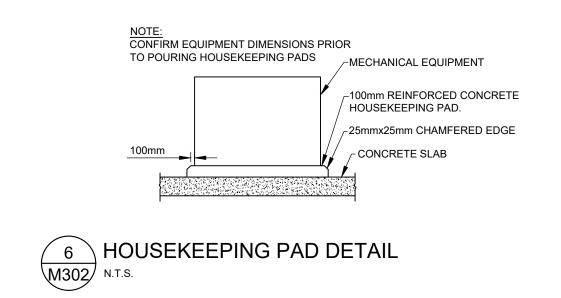


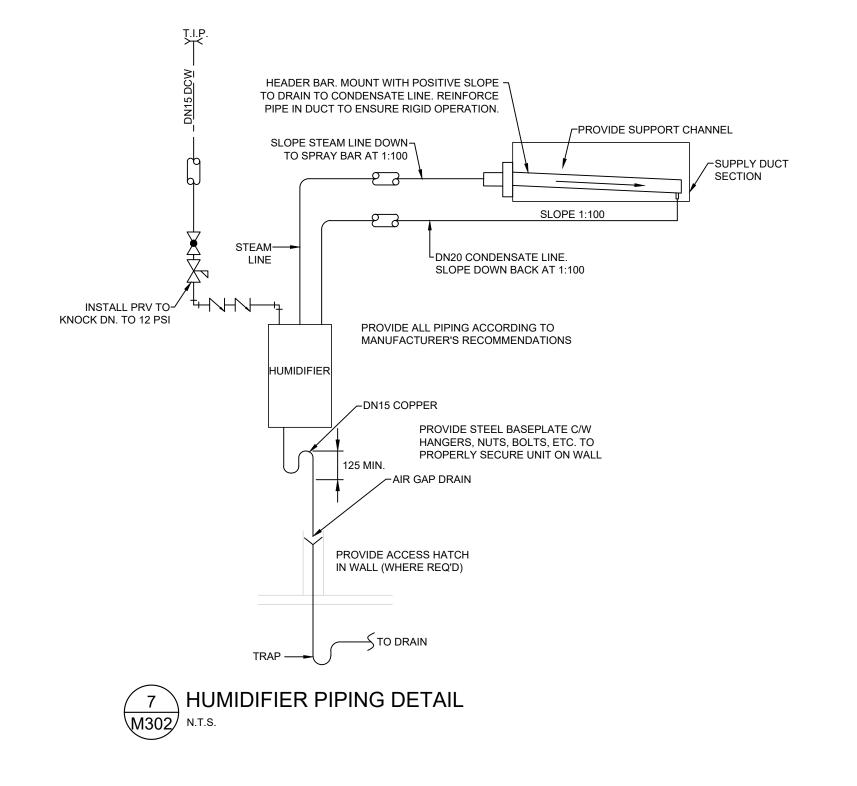


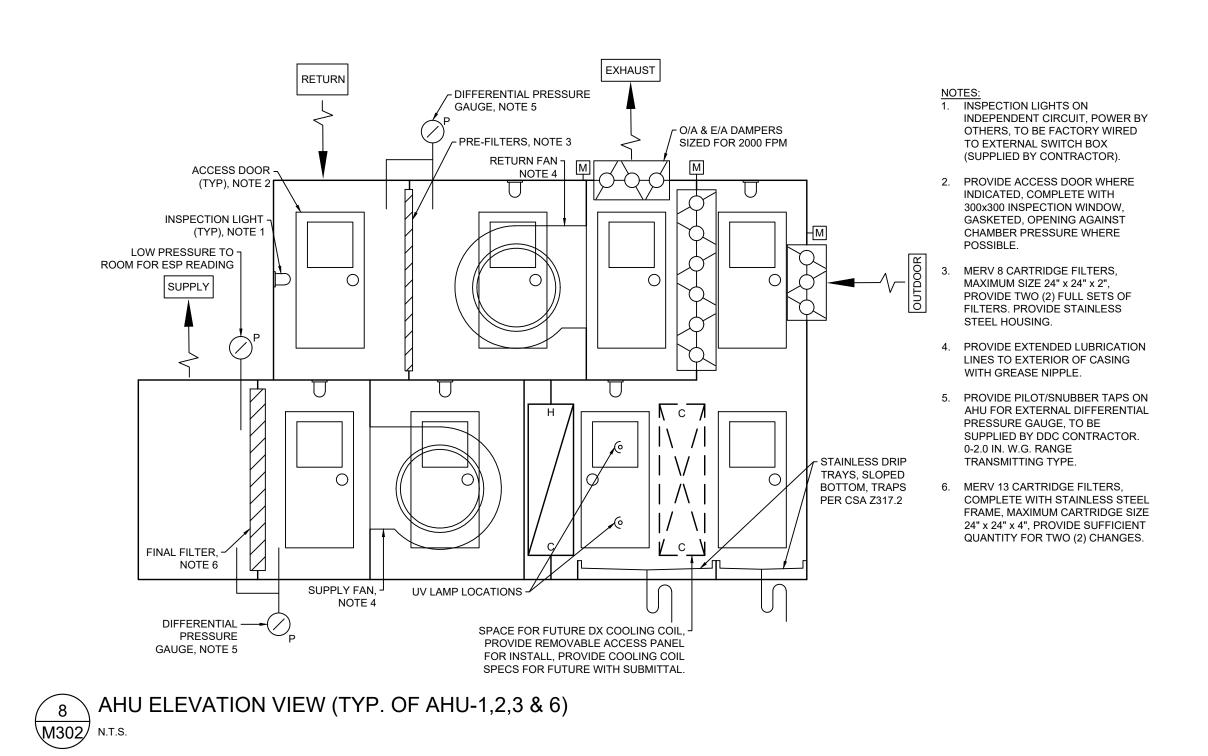
DUCT TRANSITION DETAIL

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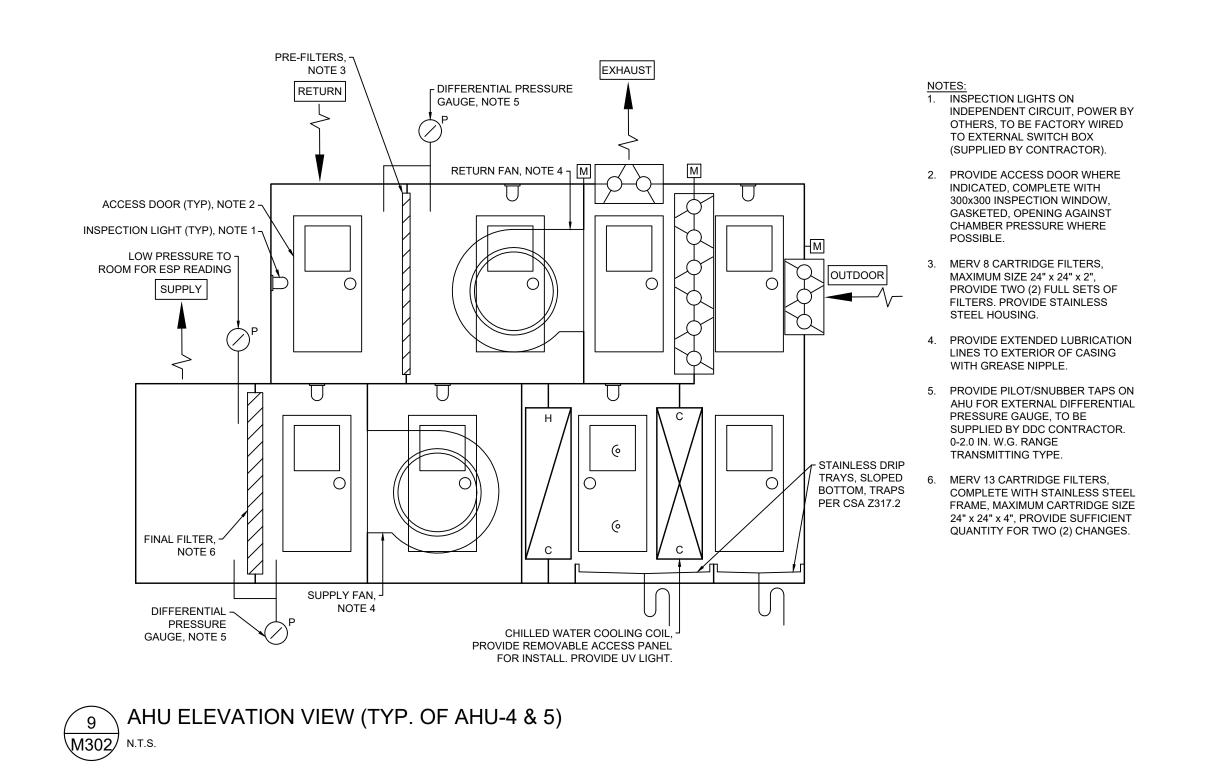


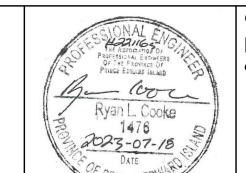






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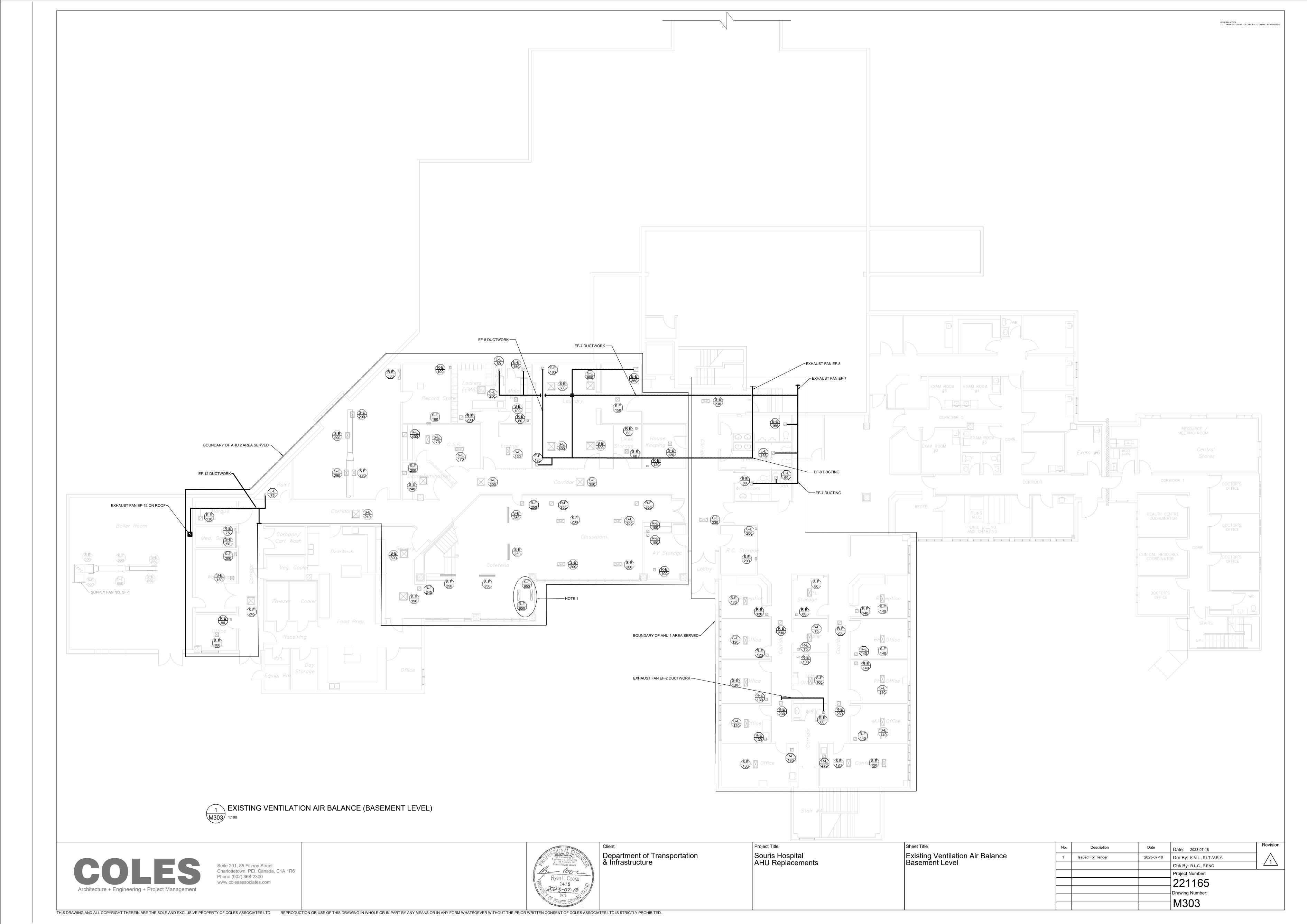
Project Title Souris Hospital AHU Replacements

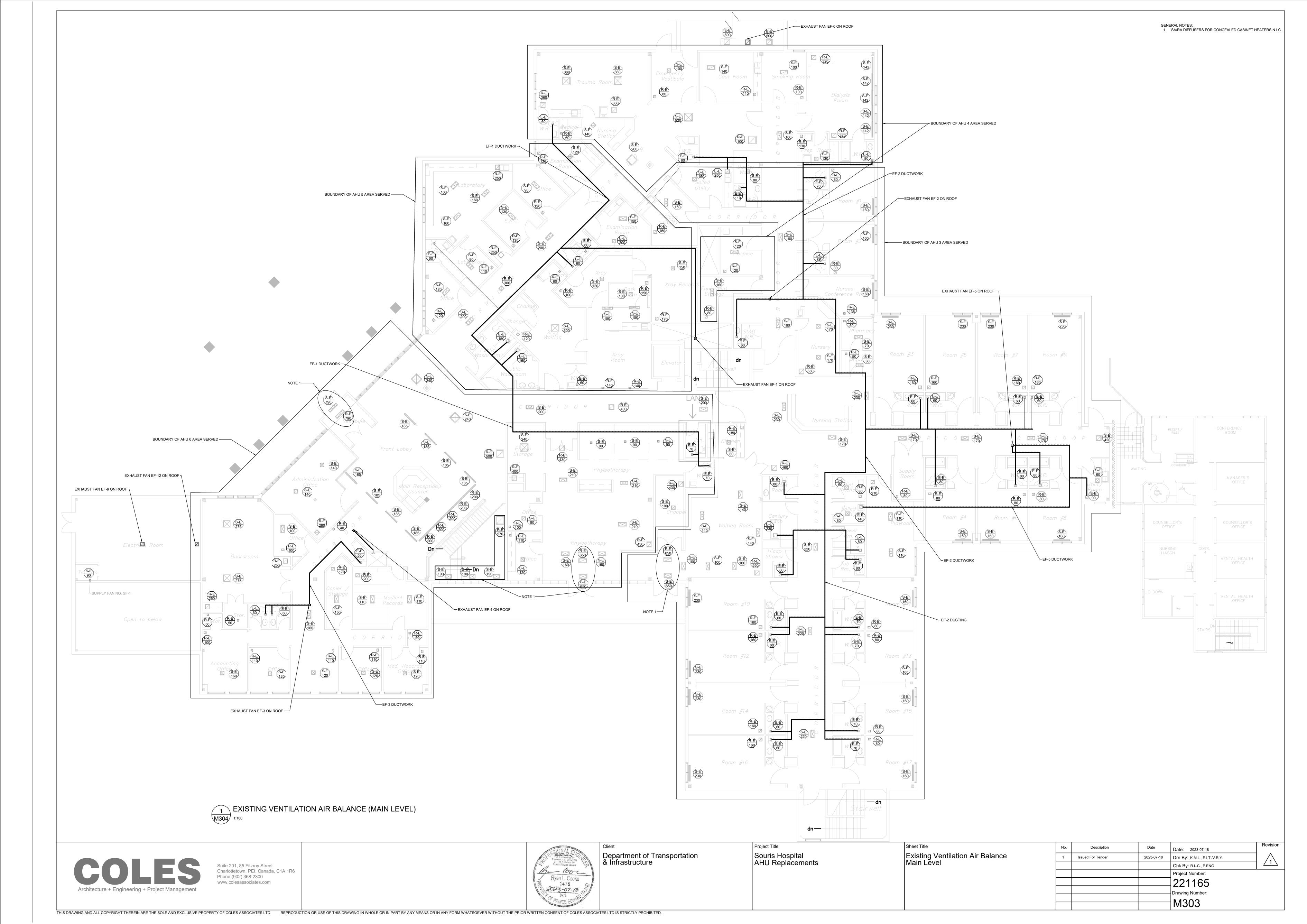
Details & AHU Elevation Views

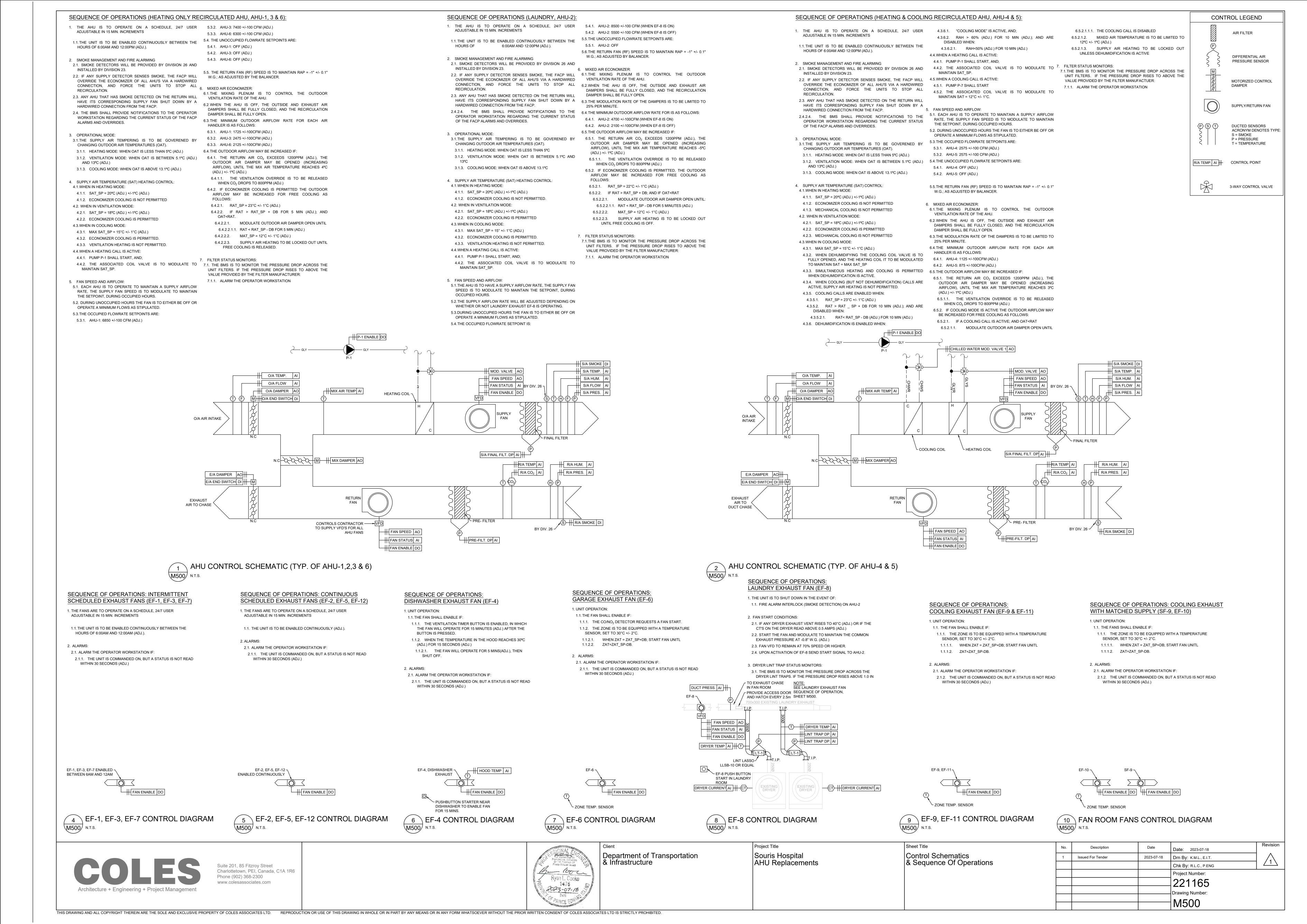
Sheet Title

Revision Description Date: 2023-07-18 Issued For Tender 2023-07-18 Drn By: K.M.L., E.I.T. Chk By: R.L.C., P.ENG Project Number: 221165 Drawing Number: M302









TENDER REQUIREMENTS, THE PROJECT CONTRACT, RELATED DOCUMENTATION AND GENERAL REQUIREMENTS GOVERN THE WORK OF THIS CONTRACT/TRADE.

ALL ELECTRICAL WORK IS TO BE CARRIED OUT BY QUALIFIED. LICENSED ELECTRICIANS OR APPRENTICES FOR THE PROVINCE OF PRINCE EDWARD ISLAND AND THE ELECTRICAL CONTRACTOR MUST HAVE A VALID CONTRACTOR LICENSE ISSUED BY THE PROVINCE OF PRINCE EDWARD ISLAND

ELECTRICAL CONTRACTOR TO FURNISH ALL LABOUR, MATERIALS, TOOLS AND EQUIPMENT REQUIRED TO COMPLETE ALL WORK SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED. THE 17. WORK IS TO BE IN ACCORDANCE WITH RULES AND REGULATIONS OF ALL AUTHORITIES HAVING LEGAL JURISDICTION OVER THE WORK PROVIDE ANY SMALL ITEMS OF WORK NOT SPECIFICALLY CALLED FOR BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATION.

1.4. THE TERM "OWNER" TO HEREIN AFTER REFER TO SOURIS HOSPITAL. THE TERM "ENGINEER" TO HEREIN AFTER REFER TO COLES ASSOCIATES LTD

THE ENGINEER RESERVES THE RIGHT TO APPROVE THE QUALITY OF MATERIAL AND WORKMANSHIP, AND TO CALL FOR ANY TESTS WHICH THEY DEEM NECESSARY TO ESTABLISH 17.3. COLOUR CODING TO MATCH EXISTING COLOUR CODING ON SITE. THE INTEGRITY OF THE INSTALL ATION DURING THE PROGRESS OF THE WORK AND A COMPLETE TEST OF EACH SYSTEM AT THE COMPLETION OF THE WORK. THE COST OF SUCH 17.4 ALL JUNCTION/PULL BOXES ARE TO BE MARKED WITH AN INDELIRIE INK MARKER TO IDENTIFY TESTS ARE NOT TO BE CONSIDERED AS EXTRAS.

DESCRIPTION OF WORK

2.1. THE WORK IS TO CONSIST OF, BUT NOT BE LIMITED TO, THE FOLLOWING: 2.1.1. POWER DISTRIBUTION INCLUDING MODIFICATIONS TO EXISTING SYSTEM

2.1.2. POWER, STARTERS/DISCONNECTS FOR MECHANICAL MOTORS AND EQUIPMENT

2.1.3. ALL CABLE AND CONDUIT INSTALLATION

2.1.4. ALL NECESSARY CONNECTIONS FOR A COMPLETE SYSTEM

2.1.5. FIRE ALARM SYSTEM INCLUDING MODIFICATIONS TO EXISTING FIRE ALARM SYSTEM CODES, PERMITS AND INSPECTION

ALL WORK IS TO BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CANADIAN ELECTRICAL CODE (CSA 22.1-21), THE NATIONAL BUILDING CODE (NBCC 2015), AND THE NATIONAL FIRE CODE (NFC).

ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR AND IS TO OBTAIN ALL PERMITS, INSPECTIONS FTC AS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION OVER THIS WORK AND IS TO PAY FOR SAME. THESE COSTS ARE TO BE INCLUDED IN THE TENDER PRICES. 22. ALL PERMITS ARE TO BE DELIVERED TO THE OWNER'S REPRESENTATIVE AS SOON AS THEY BECOME AVAILABLE

PREPARE AT OWN EXPENSE, ANY LARGE SCALE WORKING DRAWINGS WHICH MAY BE REQUIRED BY THE EXAMINING AUTHORITIES TO FACILITATE INSTALLATION

SUBMIT SHOP DRAWINGS OF ELECTRICAL EQUIPMENT FOR REVIEW BY THE ENGINEER. SHOP DRAWINGS ARE TO INCLUDE POWER DISTRIBUTION SUCH AS MCC STARTER BUCKERS AND MCC FUSIBLE FEEDER BUCKETS. CONTRACTOR IS TO STAMP, SIGN AND DATE SHOP DRAWINGS PRIOR TO SUBMISSION AS PROOF OF THEIR APPROVAL. COORDINATION WITH FIELD MEASUREMENTS, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.

EXAMINATION OF SITE AND DRAWINGS EXAMINE MECHANICAL AND ELECTRICAL DRAWINGS, VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT. ANY DEVIATION AND/OR CONFLICTS ON THE PLANS OR SITE IS TO BE REPORTED TO THE ENGINEER PRIOR TO SUBMITTING TENDER, OTHERWISE IT WILL BE

CONSIDERED THAT THEY HAVE BEEN ACCOUNTED FOR IN TOTAL TENDERED PRICE. CONSTRUCTION SCHEDULE

SCHEDULE AND PERFORM WORK TO MEET THE COMPLETION SCHEDULE, ANY OVERTIME WORK IS TO BE INCLUDED IN TOTAL TENDERED PRICE. **BILLINGS, REVISIONS AND EXTRAS**

BILLINGS FOR WORK ARE TO BE BROKEN DOWN INTO A NUMBER OF SUBSECTIONS TO INDICATE HOW VALUES WERE DERIVED. SUBMIT PROPOSED BREAKDOWN TO ENGINEER FOR APPROVAL, PRIOR TO FIRST BILLING. MATERIALS ON SITE TO BE SUPPORTED WITH PACKING

8.2. NO ADDITIONAL MONEY OVER THE CONTRACT PRICE WILL BE PAID UNLESS AN APPROVED CHANGE ORDER IS ISSUED. CLAIMS FOR EXTRAS MUST BE SUBMITTED WITH A COMPLETE BREAKDOWN OF MATERIAL, LABOUR, HOURLY RATES, ETC.

<u>CLEANUP</u> REMOVE ALL WASTE PRODUCTS AND DEBRIS AND KEEP THE WORK AREA CLEAN AT ALL

9.2. PRIOR TO FINAL REVIEW REMOVE SURPLUS PRODUCTS, TOOLS, AND CONSTRUCTION

EQUIPMENT. CUTTING AND PATCHING

REDUCE NOISE

10.1. BE RESPONSIBLE FOR ANY CUTTING, PATCHING AND OPENINGS NECESSARY FOR WORK. USI APPROPRIATE POWER DRIVEN TOOLS TO MAKE ANY OPENINGS. KEEP OPENINGS TO A MINIMUM, AND MAKE OPENINGS ONLY AS LARGE AS REQUIRED FOR ELECTRICAL SERVICES. 10.2. PATCH, CAULK, AND SEAL AROUND OPENINGS PLACED THROUGH FULL HEIGHT WALLS TO

EXISTING STRUCTURES AND SERVICES 11.1. CONTRACTOR TO BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY CUTTING OR DISRUPTING EXISTING STRUCTURES OR SERVICES DESIGNATED TO REMAIN IN USE.

REMOVALS AND ALTERATIONS 12.1. PRIOR TO TENDER SUBMISSION, VISIT THE SITE AND SURVEY AND QUANTIFY THE EXTENT OF

THE REMOVALS AND ALTERATIONS REQUIRED FOR THIS CONTRACT AND INCLUDE FOR ALL COSTS IN THE TOTAL TENDERED PRICE. 12.2. IN CONJUNCTION WITH SITE VISIT, REVIEW MECHANICAL AND ELECTRICAL DRAWINGS AND

INCLUDE ALL COSTS DUE TO EXISTING CONDITIONS IN TOTAL TENDERED PRICE. 12.3. PRIOR TO DEMOLITION, OWNER WILL IDENTIFY ANY ITEMS OF ELECTRICAL EQUIPMENT WHICH

ARE TO BE SET ASIDE AS DIRECTED FOR FUTURE USE BY OWNER. 12.4. UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL OTHER MATERIALS AND EQUIPMENT REMOVED UNDER WORK OF THIS SECTION BECOMES THE PROPERTY OF THE CONTRACTOR

12.5. COMPLY WITH ALL MUNICIPAL, PROVINCIAL AND FEDERAL BYLAWS AND STANDARDS WHEN DISPOSING OF WASTE

12.6. REMOVE ALL OBSOLETE OR ABANDONED ELECTRICAL SERVICES ASSOCIATED WITH OBSOLETE OR ABANDONED MECHANICAL SYSTEMS INCLUDING EXPOSED WIRE AND CONDUIT, EXCEPT THOSE DESIGNATED FOR REUSE.

12.7. COORDINATE WORK OF THIS SECTION WITH OTHER TRADES.

FOR DISPOSAL OFF THE PROPERTY.

12.8. ANY EXISTING CONDUIT, WIRING, BOXES OR EQUIPMENT THAT IS TO REMAIN IN SERVICE IS TO BE PROPERLY SUPPORTED AS REQUIRED BY THE CEC. ANY ADDITIONAL HANGERS. STRAPS. OR FASTENERS THAT ARE REQUIRED ARE TO BE SUPPLIED AND INSTALLED UNDER THIS

12.9. MAKE ALTERATIONS TO EXISTING ELECTRICAL SERVICES AS REQUIRED AND MAKE GOOD ALL CIRCUITS AFFECTED BY THE RENOVATIONS. 12.10. ANY EXISTING ELECTRICAL CIRCUITS AND/OR EQUIPMENT THAT ARE INTERRUPTED DURING CONSTRUCTION TO ACCOMMODATE ALTERATIONS BUT ARE TO REMAIN IN SERVICE ARE TO BE

RECONNECTED AND CIRCUITS MADE GOOD. 12.11. ANY RELOCATING OF EXISTING EQUIPMENT AND ANY REROUTING OF EXISTING WIRE AND CONDUIT TO COORDINATE WITH NEW WORK TO BE INCLUDED IN TOTAL TENDERED PRICE.

12.12. THE OWNER INTENDS TO CARRY OUT DAY-TO-DAY BUSINESS AS USUAL THROUGHOUT THE FACILITY DURING THE RENOVATION. ALL POTENTIALLY DISRUPTIVE WORK INCLUDING POWER OUTAGES ARE TO BE COORDINATED AND SCHEDULED WITH THE OWNER IN AN EFFORT TO MINIMIZE DISRUPTION.

12.13. EXISTING CONDUCTOR, CIRCUIT BREAKERS OR ELECTRICAL EQUIPMENT MAY BE REUSED AT THE CONTRACTORS DISCRETION IF DEEMED SUITABLE FOR THE INTENDED INSTALLATION AND 29.1. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL: IN ACCORDANCE WITH CSA 22.1-21; OTHERWISE, PROVIDE NEW. DELIVERY DATES

13.1. PLACE ORDER FOR ALL MATERIAL AND EQUIPMENT IMMEDIATELY AFTER SIGNING OF CONTRACT. SUBMIT A LIST OF DELIVERY DATES FOR EACH TYPE OF EQUIPMENT WITHIN 5 DAYS OF THE AWARD OF CONTRACT. THE LIST IS TO INCLUDE SUPPLIER'S AND MANUFACTURER'S NAMES. USE ONLY MATERIALS THAT CAN BE DELIVERED ON TIME TO MEET CONSTRUCTION SCHEDULE, OTHERWISE PROVIDE TEMPORARY AT NO COST TO OWNER.

EQUIPMENT AND MATERIAL

14.1. ALL EQUIPMENT AND MATERIAL, UNLESS SPECIFICALLY NOTED OTHERWISE, IS TO BE NEW AND WITHOUT BLEMISH OR DEFECT. ALL MATERIAL AND EQUIPMENT ARE TO BE CERTIFIED BY A CERTIFICATION AGENCY WHICH IS ACCREDITED BY THE CANADIAN STANDARDS COUNCIL OF CANADA IN ACCORDANCE WITH THE REQUIREMENTS OF CSA STANDARDS OR OTHER RECOGNIZED DOCUMENTS AND HAVE ALL REQUIRED LABELS PERMANENTLY AFFIXED AND VISIBLE WHEN INSTALLED.

15.1. PERFORM TEST ON EACH SYSTEM TO THE SATISFACTION OF THE ENGINEER AND SUBMIT TEST RESULTS FOR APPROVAL PRIOR TO THE FINAL ACCEPTANCE OF THE WORK.

5.2. EXISTING PANELBOARDS MODIFIED BY THIS WORK ARE TO BE BALANCED WITHIN 5%. MEASURE PHASE CURRENT TO PANELS WITH NORMAL LOADS OPERATING AT TIME OF ACCEPTANCE, ADJUST BRANCH CIRCUIT CONNECTIONS AS REQUIRED TO OBTAIN BEST BALANCE OF CURRENT BETWEEN PHASES AND RECORD CHANGES. INCLUDE SIGNED AND DATED LOAD BALANCE SHEETS IN MAINTENANCE MANUALS.

15.3. ALL NEW MOTORS TO BE TESTED FOR PROPER PHASE ROTATION.

IDENTIFICATION

CIRCUIT DIRECTORIES

CONTRACTOR AND OWNER ON SITE.

MAINTENANCE AND REPAIRS.

FASTENINGS AND SUPPORTS

CONDUIT AND FITTINGS

RESPONSIBILITY

15.4. ALL NEW ELECTRICAL EQUIPMENT AND SYSTEMS TO BE COMMISSIONED BY ELECTRICAL CONTRACTOR, READY FOR USE BY OWNER.

17.1. PANELBOARDS AFFECTED BY THE RENOVATION TO BE COMPLETED WITH NEW UPDATED

18.1. BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF EQUIPMENT, CONDUIT AND

CABLE WORK WITH OTHER TRADES PRIOR TO THE ACTUAL INSTALLATION

19.1. ALL WORK IS TO BE INSTALLED SO IT CAN BE READILY ACCESSIBLE FOR OPERATION,

20.1. BE RESPONSIBLE FOR WORK UNTIL THE COMPLETION AND FINAL ACCEPTANCE, INCLUDING

REPLACING ANY ITEM THAT MAY BE DEFECTIVE DAMAGED. LOST OR STOLEN WITHOUT.

ADDITIONAL COST TO THE OWNER OR DELAY TO THE COMPLETION OF THE PROJECT.

. WARRANT ALL WORK AND MATERIALS INSTALLED UNDER THIS CONTRACT, AGAINST ALL

22.2. SURFACE MOUNTED EQUIPMENT REQUIRING ADDITIONAL SUPPORT TO BE INSTALLED USING

22.5. DO NOT USE SUPPORTS OR EQUIPMENT INSTALLED BY OTHER TRADES FOR CONDUIT OR

22.6. DO NOT INSTALL CABLE, RACEWAYS AND BOXES DIRECTLY TO UNDERSIDE OF ROOF DECKING.

CABLE RACEWAY OR BOX IS NOT LESS THAN 40mm FROM BOTTOM OF ROOF DECKING.

23.1. WHEN SHOWN, CONDUIT SIZES ARE TO BE AS INDICATED ON THE DRAWINGS AND ARE NOT TO

BE CONCEALED WHERE POSSIBLE. ALL CONDUIT IS TO BE INSTALLED PARALLEL OR

PERPENDICULAR TO BUILDING LINES. CONDUIT IS TO BE INSTALLED TO CONSERVE

23.3 WHERE CONDUIT PENETRATES THROUGH FIRE RATED STRUCTURES, FIREPROCEING AND

23.5. CONDUIT AND ARMOURED CABLES ARE TO BE SUPPORTED INDEPENDENTLY OF OTHER

FOR 50mm AND LARGER, AND BEAM CLAMPS, AND SPRING STEEL FASTENERS IN

24.1. FOR THE TYPE OF CONSTRUCTION. USE CAST FS OR FD BOXES FOR SURFACE MOUNTED

25.1. PLANS SHOW APPROXIMATE LOCATION OF ELECTRICAL WORK, EXACT LOCATION TO BE

COORDINATED ON THE SITE WITH OTHER TRADES, MECHANICAL PLANS, EQUIPMENT, ETC.

LOCATIONS MAY VARY BY 10' WITHOUT CREDIT OR EXTRA. INACCURATELY LOCATED

ELECTRICAL TO BE RE-ADJUSTED OR RELOCATED AT THE CONTRACTOR'S EXPENSE.

26.1. ALL WIRES TO BE COPPER RW90, RATED 600V, INSTALLED IN CONDUIT UNLESS OTHERWISE

26.3. ALL WIRES TO BE NEW AND DELIVERED TO THE SITE OF THE PROJECT IN THEIR ORIGINAL

BE FACTORY IDENTIFIED SHOWING SIZE, VOLTAGE RATING AND INSULATION TYPE.

26.4. NEUTRAL CONDUCTOR TO BE WHITE THROUGHOUT, THREE PHASE WIRES TO BE: ONE RED,

26.5. WHERE COMMON NEUTRALS ARE USED ENSURE THAT CIRCUITS ARE FROM DIFFERENT

26.6. CABLES ARE TO BE INSTALLED WITHOUT SPLICES AND BE RUN CONTINUOUS FROM SOURCE

26.7. TECK CABLE RATED FOR 600V WITH FT4 JACKET TO BE USED FOR FINAL CONNECTIONS TO

27.2. COMPRESSION TYPE CONNECTORS TO BE USED FOR CONNECTING #6 CONDUCTORS AND

27.3. PREMANUFACTURED MOTOR LEAD SPLICING KITS TO BE USED FOR WIRING CONNECTIONS TO

29.1.1. ALL NECESSARY POWER DISTRIBUTION EQUIPMENT IN THE ELECTRICAL ROOM AND

29.1.4. ALL NECESSARY POWER WIRING FROM THE DISCONNECT/STARTER TO EQUIPMENT

29.1.5. ALL POWER WIRING CONNECTIONS AND TERMINATIONS FOR VOLTAGES OF 120V OR

29.1.6. ANY MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE WORK AS SHOWN ON

29.1.7. COORDINATE EXACT LOCATIONS WITH THE CONTRACTOR SUPPLYING THE EQUIPMENT,

29.1.8. VERIFY ALL MOTOR CONNECTIONS FOR PROPER PHASE ROTATION WHERE APPLICABLE

29.2.2 ALL MECHANICAL FOUIPMENT AND ASSOCIATED VARIABLE FREQUENCY DRIVES (VED'S

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REQUIREMENTS AND CONNECTIONS PRIOR TO ROUGH-IN. LOCATION OF EQUIPMENT

AND/OR CONNECTIONS MAY VARY IN THE FIELD BY 10' WITHOUT CREDIT OR EXTRA.

INSTALLATION MANUAL(S), AND RELATED DRAWINGS. VERIFY ELECTRICAL

29.1.2. ALL NECESSARY POWER WIRING AND CONDUIT TO EQUIPMENT LOCATIONS.

27.1. USE TWIST-ON PRESSURE TYPE WIRE CONNECTORS FOR #8 TO #14 SIZED WIRE

CONNECTORS. ACCEPTABLE MATERIAL: T & B STAR-TECK.

28.1. ALL CONDUITS TO HAVE SEPARATE INSULATED BONDING CONDUCTOR.

28.2. ALL INSULATED GROUNDING AND BONDING WIRES TO HAVE GREEN JACKET

29.1.3. DISCONNECT SWITCHES/STARTERS AS INDICATED ON THE PLANS.

AND ASSIST IN COMMISSIONING EQUIPMENT.

29.2.1. ALL CONTROL WIRING FOR VOLTAGES LESS THAN 120V.

29.2. MECHANICAL CONTRACTOR TO SUPPLY AND INSTALL:

CONNECTIONS. ACCEPTABLE MATERIAL: MARETTE

MECHANICAL EQUIPMENT AND WHERE INDICATED. TERMINATE WITH SPIN-ON STYLE

26.2. ALL WIRING TO BE SIZED TO MEET ALL REQUIREMENTS OF THE CSA 22.1-21. MINIMUM SIZE FOR

BRANCH CIRCUIT WIRING TO BE #12 AND #14 FOR CONTROL WIRING UNLESS INDICATED

PACKING. WIRES #8 AND LARGER TO BE STRANDED, #10 AND SMALLER TO BE SOLID. WIRES TO

25.2. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, LOCATE ELECTRICAL EQUIPMENT AT THE

FOLLOWING MOUNTING HEIGHTS TAKEN FROM EQUIPMENT CENTERLINE TO FINISHED FLOOR.

SMOKE SEALING IS TO BE PACKED AROUND CONDUIT TO MAINTAIN FIRE RATING OF

SIZED IN ACCORDANCE WITH CEC REQUIREMENTS IN ALL CONDUITS.

23.4. MINIMUM CONDUIT SIZE IS TO BE 21mm UNLESS OTHERWISE INDICATED.

23.2. EMT COMPLETE WITH STEEL SET SCREW COUPLINGS AND CONNECTORS TO BE USED FOR ALL

BRANCH CIRCUIT WORK UNLESS OTHERWISE INDICATED. INSTALL A SEPARATE BOND WIRE

STRUCTURE WHICH IT PASSES THROUGH. ACCEPTABLE MATERIAL: 3M BRAND FIRE BARRIER

EQUIPMENT USING ONE-HOLE STEEL STRAPS FOR UNDER 50mm, TWO-HOLE STEEL STRAPS

CAULK CP 25 OR 303 PUTTY COMPOUND OR APPROVED EQUAL. PROVIDE FIRE COLLARS IN

BE REDUCED IN SIZE UNLESS APPROVAL IS OBTAINED FROM THE ENGINEER: OTHERWISE

SIZE CONDUIT TO CSA 22 1-21 REQUIREMENTS, CONDUIT INSTALLED IN FINISHED AREAS IS TO

SUPPORT CABLES, RACEWAY AND BOXES SO THAT THE NEAREST OUTSIDE SURFACE OF THE

CABLE SUPPORT UNLESS APPROVAL IS OBTAINED FROM THE ENGINEER.

METAL FRAMING CHANNELS, FITTINGS AND HARDWARE,

HEADROOM IN SPACES THROUGH WHICH THEY PASS.

ADDITION TO FIRE CAULKING WHERE REQUIRED.

24.2. BOXES TO BE SUPPORTED INDEPENDENT OF CONDUIT RUNS.

ACCORDANCE WITH THE CEC.

OUTLETS IN SERVICE ROOM.

INSTALLATION OF ELECTRICAL

ONE BLACK AND ONE BLUE.

GROUNDING AND BONDING

MECHANICAL AND SERVICE EQUIPMENT

ELECTRICAL PANELBOARDS

OUTLET, PULL AND JUNCTION BOXES

22.3. SECURE EQUIPMENT TO HOLLOW MASONRY WALLS WITH TOGGLE BOLTS.

DEFECTS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE OF SAME

THE CIRCUIT NUMBER OF ENCLOSED WIRING AND THE PANEL NAME

30.1.1. PROVIDE FOR THE REMOVAL OF EXISTING MCC STARTER BUCKETS AS INDICATED ON DEMONSTRATION OF THE SYSTEM

DRAWING F200 AND F201 TO ALLOW FOR THE INSTALLATION OF NEW MCC STARTER BLICKETS WITHIN EXISTING 600A 120/208V THREE PHASE FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1' AND 400A, 120/208V, THREE PHASE, FOUR WIRE 16.1. DEMONSTRATE THE FUNCTION AND OPERATION OF EACH SYSTEM TO THE ENGINEER AND SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-2' LOCATED IN ROOM L09.

30.1.2.1. UNIT DOOR

30. POWER DISTRIBUTION SYSTEM

30.1. MOTOR CONTROL CENTRE

30.1.2. PROVIDE FULL VOLTAGE NON-REVERSE ACTING COMBINATION MOTOR STARTER BUCKETS COMPLETED WITH:

30.1.2.2. SIDE OPERATOR HANDLE 17.2. NEW MCC STARTER BUCKETS AND NEW MCC FUSIBLE FEEDER BUCKETS TO BE PROVIDED WITH NEW LAMICOID NAMEPLATES. COORDINATE EXACT NAMING WITH MECHANICAL

30.1.2.3. CIRCUIT BREAKER DISCONNECT

30.1.2.4. CONTACTOR EEMAC RATED 30.1.2.5. CONTACTOR AUX CONTACTS 2NO/2NC

30.1.2.6. OVERLOAD BIMETALLIC CI10 C/W RESET BUTTON FOR BUCKETS SIZE 1 - 3 30.1.2.7. CONTROL TRANSFORMER WITH PRIMARY AND SECONDARY FUSING

30.1.2.8. POSITION SELECTOR SWITCH (HAND-OFF-AUTO)

30.1.2.9. PILOT LIGHT FULL VOLTAGE 120VAC LED 30.1.2.10. TERMINALS FIXED TYPE

POSITION SELECTOR SWITCH AND PILOT LIGHT LED TO BE MOUNTED ON THE UNIT COMPARTMENT DOOR. DOOR MOUNTED COMPONENTS CANNOT INTERFERE WITH ACCESS WITHIN THE COMPARTMENTS.

30.1.4. ALL WORK ASSOCIATED WITH EXISTING 'MCC-1' AND 'MCC-2' TO BE COMPLETED BY A CERTIFIED MANUFACTURER'S TECHNICIAN. PROVIDE FOR VERIFICATION AND CERTIFICATION OF THE MODIFIED MOTOR CONTROL CENTRES.

FIRE ALARM SYSTEM

31.1. THE FIRE ALARM EQUIPMENT AND DEVICES TO BE INTELLIGENT AND ADDRESSABLE, CSA APPROVED, CONFORM TO CAN/ULC STANDARDS, BE SUPPLIED BY A SINGLE MANUFACTURER AND SUITABLE FOR INTEGRATION WITH EXISTING SIEMENS #TXL-1000 CERBERUS PRO FIRE ALARM CONTROL PANEL

31.2. FIRE ALARM DUCT DETECTOR, PHOTOELECTRIC TYPE: DETECTOR ADDRESS TO BE SET ON 22.1. PROVIDE FASTENINGS AND SUPPORTS SPECIFICALLY DESIGNED TO SUPPORT THE LOAD FOR DETECTOR BASE IN FIELD WITH ELECTRONICS CAPABLE OF COMMUNICATING DETECTORS STATUS TO ADDRESSABLE MODULE. AIR DUCT TYPE WITH SAMPLING TUBES WITH PROTECTIVE HOUSING, TWISTLOCK PLUG-IN TYPE WITH FIXED BASE, ASSEMBLY WITH INTEGRAL RED ALARM LED AND TERMINALS FOR REMOTE RELAY ALARM LED. WHERE SMOKE DETECTORS ARE CONCEALED PROVIDE REMOTE MOUNTED LED INDICATORS AT VISIBLE LOCATION. ACTIVATION OF DUCT DETECTORS TO CAUSE SHUTDOWN OF ASSOCIATED AIR HANDLING UNIT

22.4. ENSURE ADEQUATE SUPPORT FOR RACEWAYS AND CABLES DROPPED VERTICALLY. PROVIDE 31.3. ADDRESSABLE INTERFACE MODULES: CONTROL FUNCTIONS (E.G. FAN SHUTDOWN); COMMUNICATE WITH EXISTING CONTROL PANEL OVER (MINIMUM NUMBER OF WIRES) OR (SPECIFIED BY MANUFACTURER) OR (ADDRESSABLE DEVICES LOOP).

31.4. ACCEPTABLE MANUFACTURER: SIEMENS (TO MATCH EXISTING)

31.5. INSTALL FIRE ALARM SYSTEM AS INDICATED AND IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. INSTALL WIRING AS PER MANUFACTURERS RECOMMENDATIONS. ALL WIRING FOR INITIATING CIRCUITS TO BE POWER LIMITED FIRE ALARM ARMOURED CABLE OR TO BE IN EMT CONDUIT, TWISTED OR UNTWISTED, SHIELDED OR UNSHIELDED, COPPER CONDUCTORS #18 AWG MINIMUM, 300V, FT4 RATED TO: CSA C22.2 NO. 208-03, FAS 105°C. ALL WIRING FOR CONTROL CIRCUITS TO BE 14 AWG. RW90 MINIMUM AND IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ADDRESSABLE LOOPS AND NOTIFICATION CIRCUITS TO BE INSTALLED IN SEPARATE CONDUITS. COORDINATE WITH OWNER FOR DEVICE LOCATION

31.6. THE COMPLETE FIRE ALARM SYSTEM TO BE INSTALLED IN ACCORDANCE WITH CAN/ULC-S524, INSPECTED, TESTED AND VERIFIED IN ACCORDANCE WITH CAN/ULC-S536 AND S537. FIRE ALARM VERIFICATION REPORT TO BE PROVIDED TO THE ENGINEER FOR REVIEW AND RECORDS UPON THE COMPLETION OF ALL MODIFICATIONS AND ADDITIONS TO THE EXISTING FIRE ALARM SYSTEM.

MAINTENANCE MANUALS

32.1. AT COMPLETION OF CONTRACT PROVIDE THREE COPIES OF MAINTENANCE MANUALS TO GENERAL REQUIREMENTS. INCLUDE ALL SHOP DRAWINGS, CERTIFICATES, TEST SHEETS, GUARANTEES, WARRANTEES AND MAINTENANCE INFORMATION NAME, ADDRESS AND TELEPHONE NUMBER OF CONTRACTOR, PLUS NAMES, ADDRESSES AND TELEPHONE NUMBERS OF DISTRIBUTORS, MANUFACTURERS, AND SUPPLIERS OF EQUIPMENT

INFECTION CONTROL PROCEDURES 33.1. GENERAL

33.1.1.1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE WORK OF THEIR CONTRACT IS CARRIED OUT IN A MANNER THAT MEETS THE REQUIREMENTS OF "CSA Z317.13-17-INFECTION CONTROL DURING CONSTRUCTION, RENOVATION AND MAINTENANCE OF HEALTH CARE FACILITIES" SO AS TO IMPLEMENT THE PRECAUTIONARY AND REMEDIAL MEASURES, INCLUDING QUALITY SYSTEM REQUIREMENTS, FOR PREVENTING EXPOSURE TO AGENTS RELEASED OR AUGMENTED BECAUSE OF ACTIONS UNDERTAKEN DURING HEALTH CARE FACILITY CONSTRUCTION, RENOVATION, MAINTENANCE, AND REPAIR WORK.

33.1.1.2. THE CONTRACTOR IS TO HAVE A COPY OF THE CURRENT CSA Z317.13-17

33.1.1.3. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE PHYSICAL FACILITIES, MONITORING AND OVERALL MANAGEMENT FOR THE INFECTION CONTROL

33.1.1.4. NOTWITHSTANDING THE CONTRACTOR'S RESPONSIBILITY TO OVERAL MANAGEMENT FOR THE INFECTION CONTROL PROCEDURES, THE SITE FOREMAN / SITE SUPERVISION AS A MINIMUM FOR ALL TRADES IS REQUIRED TO SHOW PROOF OF COMPLETION OF THE "INFECTION CONTROL DURING CONSTRUCTION AND RENOVATION AWARENESS COURSE" BASED ON CSA Z317-17 BEFORE ANY WORK MAY BEGIN ON SITE FOR THEIR TRADE.

33.1.2. INTRODUCTION

33.1.2.1. THIS SPECIFICATION SECTION IS AN OUTLINE OF THE PROCEDURES TO FOLLOW WHEN USING THE CSA Z317.13-17 STANDARD.

33.1.2.2. THESE PROCEDURES MUST BE MAINTAINED FOR THE DURATION OF THE

33.1.2.3. THIS SPECIFICATION SHALL BE USED AS A GUIDING DOCUMENT FOR INTERPRETATION AND APPLICATION OF THE CSA STANDARD.

33.1.2.4. ALL INDIVIDUALS INVOLVED IN THE CONSTRUCTION WITHIN HEALTH CARE FACILITIES ARE DIRECTLY INVOLVED IN HELPING PEOPLE TO GET WELL.

33.1.2.5. IT HAS BEEN DETERMINED THAT EXCESSIVE DUST, WHICH MAY HAVE NO ILL EFFECT ON A HEALTHY INDIVIDUAL. COULD VERY WELL ENDANGER A PATIENT'S LIFE. THEREFORE. IT IS NECESSARY TO IMPLEMENT PROTECTIVE MEASURES AND CREATE BARRIERS BETWEEN PATIENTS AND THE DUST AND CONTAMINANTS CREATED / DISTURBED DURING CONSTRUCTION.

33.1.2.6. INDOOR AIR QUALITY PROBLEMS MAY OCCUR AS A RESULT OF CONSTRUCTION OR RENOVATION PROJECTS THAT TAKE PLACE IN OR AROUND OCCUPIED

SPACES. EXAMPLES INCLUDE: IMPROPER ISOLATION OF THE CONSTRUCTION AREAS. DAMAGED OR OPEN SECTIONS OF THE VENTILATION SYSTEMS

CONSTRUCTION MATERIALS LEFT IN OR NEAR OCCUPIED SPACES. POOR HOUSEKEEPING DURING THE PROJECT.

INDISCRIMINATE USE AND POOR VENTILATION OF SOLVENTS, PAINTS, ADHESIVES, ETC. DURING THE PROJECT CONSTRUCTION.

33.1.2.6.6. IMPROPER REMOVAL AND DISPOSAL OF EXISTING MATERIALS. SPECIAL PRECAUTIONS MUST BE TAKEN TO PREVENT CONSTRUCTION DUST AND VAPORS FROM ENTERING EITHER THE VENTILATION SYSTEM AND/OR FROM MIGRATING TO ADJACENT OCCUPIED ROOMS AND

THERE ARE SEVERAL SOURCES OF POTENTIAL CONTAMINATION DURING A CONSTRUCTION / RENOVATION PROJECT. THESE INCLUDE: 33.1.2.6.8.1. DEMOLITION ACTIVITIES:

> 33.1.2.6.8.1.1. DEMOLITION ACTIVITIES RELEASE DUST, BIOLOGICAL CONTAMINANTS AND FIBROUS MATERIALS INTO THE AIR INSULATION IN CEILINGS AND WALLS. WALL COVERINGS AND CEILING TILE ALL HAVE A HIGH FIBER CONTENT WHICH MAY PRODUCE SUBSTANTIAL AIR BORNE FIBROUS MATERIALS DURING DEMOLITION.

33.1.2.6.8.1.2. TOTAL SUSPENDED PARTICULATE LEVELS MAY BE VERY HIGH WITH A SIGNIFICANT PORTION OF THE TOTAL BEING OF THE RESPIRABLE PARTICLE SIZES.

ESPECIALLY FORMALDEHYDE.

33.1.2.6.8.2. CONSTRUCTION:

33.1.2.6.8.2.1. CONSTRUCTION INTRODUCES ADDITIONAL DUST AND FIBROUS MATERIALS. 33.1.2.6.8.2.2. MANY CONSTRUCTION MATERIALS USED TODAY EMIT A RANGE OF VOLATILE ORGANIC COMPOUNDS, VOC'S

33.1.2.6.8.2.3. GLUES, VAPORS, AND GASES RISE FROM SOLVENTS USED TO PREPARE SURFACES FOR BONDING

Souris Hospital

Electrical Specifications Legend & Key Plans

Revision Description Date: 2023-07-18 Issued for Tender 2023-07-18 Drn By: C.L.S., C.E.T. / A.M., E.I.T. Chk By: E.S.C., P.ENG Project Number: **Drawing Number** E100

33.1.3.2. CSA Z317.13-17-INFECTION CONTROL DURING CONSTRUCTION, RENOVATION AND MAINTENANCE OF HEALTH CARE FACILITIES. FOR THE PURPOSES OF THIS SPECIFICATION SECTION, THE TERM "STANDARD" SHALL BE SYNONYMOUS WITH

33.1.3.1. CANADIAN STANDARDS ASSOCIATION (CSA).

33.1.3.3. AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR-CONDITIONING

33.1.2.6.8.2.4. EMISSIONS FROM WELDING AND SOLDERING CAN

33.1.2.6.8.2.5.1. FINAL FINISHING AND DECORATING OF

33.1.2.6.8.2.5.2. SOLVENTS, PAINTS AND VARNISHES,

COMPOUNDS.

33.1.2.6.8.2.5. FINISH WORK AND MATERIALS:

INTRODUCE A RANGE OF GASSES AND METALS INTO THE

RENOVATED SPACES CAN INTRODUCE

ADHESIVES AND GLUES ALL ADD TO THE

ACCUMULATION OF THESE IRRITATING

STRONG ODORS AND MORE VOCS.

ENGINEERS

CLEANING DEVICES FOR REMOVAL EFFICIENCY BY PARTICLE SIZE. 33.1.3.3.2. ASHRAE 62-2001: VENTILATION FOR ACCEPTANCE INDOOR AIR QUALITY. 33.2. PRODUCTS

ASHRAE 52.2-1999: METHOD OF TESTING GENERAL VENTILATION AIR

33.1.3. REFERENCES

33.2.1.1. MSDS SHEETS TO BE PROVIDED WHERE APPLICABLE.

33.2.1.2. THE CONTRACTOR IS RESPONSIBLE FOR THEIR OWN PERSONAL PROTECTION EQUIPMENT REQUIRED FOR CSA Z317.13-17 ACTIVITIES.

33.2.2.1. AIR SCRUBBER: PROVIDE PORTABLE AIR FILTRATION AND ISOLATION CONTROL FOLIPMENT WITH MUILTI-STAGE FILTRATION AND MINIMUM PEAK AIRELOW BASED ON ROOM SIZE AND REQUIRED AIR VOLUME TO BE EXHAUSTED. THE OWNER WILL PROVIDE THESE FOR THE CONTRACTORS LISE CONTRACTOR TO PROVIDE REPLACEMENT FILTERS AND TO BILL OWNER DIRECTLY ON A MONTHLY BASIS FOR MATERIAL COST OF THE FILTERS WITH BACK UP INVOICES.

33.2.2.2. MULTI-STAGE FILTRATION AS FOLLOWS:

33.2.2.2.1. FIRST STAGE - COARSE PARTICULATE PRE-FILTER. SECOND STAGE - PLEATED PRE-FILTER. 33.2.2.2.3. THIRD STAGE - CARBON FILTER FOR ODORS, AS REQUIRED.

33.2.2.2.4. FINAL STAGE - 99.97% AT 0.03 UM LEVEL HEPA FILTER. 33.2.2.3. ACCEPTABLE MATERIAL

HEPA-AIR PA2000 HC AS MANUFACTURED BY ABATEMENT TECHNOLOGIES, INC. (800-827-6443) OR APPROVED EQUAL

DIFFERENTIAL SHOULD THE SYSTEM ALARM.

PROVIDE FANS, FILTERS AND DUCTWORK TO PROVIDE AIR MOVEMENT AND MAINTAIN NEGATIVE PRESSURE AS INDICATED.

THE CONTRACTOR WILL INSTALL AN ALARMED MAGNAHELIC GAUGE TO CONTINUOUSLY RECORD THE PRESSURE DIFFERENTIAL AT THE JOB SITE. THE UNIT WILL ALARM IF PRESSURES FALLS BELOW AN ACCEPTABLE DIFFERENTIAL.

CONTRACTOR IS TO BE AWARE OF READINGS TO ENSURE INFECTION CONTROL MEASURES MAINTAIN REQUIRED PRESSURE DIFFERENTIAL. CONTRACTOR IS TO TAKE IMMEDIATE ACTION TO RESTORE PRESSURE 33 2 2 4 3

33.3. EXECUTION

33.2.2.4. MONITORING:

33.3.1.1. BECOME FAMILIAR WITH AND IMPLEMENT INFECTION PREVENTION AND CONTROL MEASURES. SPECIFIED ACCESS ROUTES. WASTE DISPOSAL ROUTES AND

33.3.1.2. CONTRACTORS PLANNING TO SUBMIT A TENDER FOR THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE CSA Z317.13-17 STANDARD BEFORE SUBMITTING THEIR BID AND BEFORE CONSTRUCTION WORK BEGINS. 33.3.1.3. THE CONTRACTOR AND PEOPLE UNDER THEIR CONTROL SHALL STRICTLY

ENFORCE THE APPROPRIATE PROCEDURES THEREIN. 33.3.1.4. BUILDING AREAS WILL REMAIN OCCUPIED DURING THE WORK. SERVICES AND OCCUPANCIES ADJACENT TO THE WORK SITE ARE TO MAINTAIN A CLEAN

33.3.1.5. THE CONTRACTOR IS RESPONSIBLE FOR STRICTLY ENFORCING INFECTION CONTROL PREVENTIVE MEASURES AND INDOOR AIR QUALITY PRECAUTION PROCEDURES.

33.3.2. BEFORE CONSTRUCTION

33.3.3. DURING CONSTRUCTION

ENVIRONMENT AT ALL TIMES.

33.3.2.1. ATTEND A PRE-CONSTRUCTION MEETING WITH THE OWNER, CONSULTANT, INFECTION CONTROL OFFICER AND USER GROUP REPRESENTATIVE TO ESTABLISH CLEAR LINES OF COMMUNICATION AND CLARIFY EXPECTATIONS. 33.3.2.2. ATTEND TRAINING AND ENSURE THAT ALL PERSONNEL WORKING ON THE PROJECT SITE. INCLUDING THOSE OF ALL SUBCONTRACTORS HAVE FULL UNDERSTANDING OF THEIR ROLES, RESPONSIBILITIES AND PREVENTATIVE MEASURE REQUIREMENTS AND PROCEDURES.

33.3.2.3. ENSURE THAT ALL DEMOLITION AND CONSTRUCTION ACTIVITIES ARE REVIEWED AND APPROVED BY THE CONSULTANT PRIOR TO THE START OF WORK AND PERIODICALLY THROUGHOUT THE DURATION OF THE PROJECT.

33.3.3.1. THE WORK UNDER THIS PROJECT IS CLASSIFIED AS GROUP 3, TYPE C, CLASS

33.3.3.2. THE CONSULTANT IN CONSULTATION WITH THE OWNER SHALL IDENTIFY ROUTES FOR CONTRACTOR ACCESS TO AND FROM THE WORK AREAS WITHIN THE BUILDING. EGRESS CORRIDORS AND STAIRWAYS SERVING THE AREA MUST REMAIN CLEAN, CLEAR AND ACCESSIBLE AT ALL TIMES.

33.3.3.3. THE CONSTRUCTION CREW SHALL NOT USE OTHER ROUTES, UNLESS GIVEN SPECIFIC APPROVAL BY THE CONSULTANT. NO ACCESS WILL BE PERMITTED DIRECTLY BETWEEN THE WORK AREA AND THE HOSPITAL BUILDING EXCEPT BY PERMISSION OF THE CONSULTANT WITH THE PERMISSION OF OWNER THROUGH A FULLY SEALED CONTAINMENT, AND ONLY AFTER DECONTAMINATION AS RECOMMENDED BY THE REFERENCED STANDARD.

33.3.3.4. THE CONTRACTOR SHALL ESTABLISH THE FOLLOWING PRECAUTIONS AT ENTRANCE TO WORK SPACE, AS PER THE REQUIREMENTS OF CSA-Z317:

33.3.3.4.1. CLEAN THE CONTRACTOR'S CONSTRUCTION AREA DAILY. ESTABLISH SEALED, ZIPPER ACCESS, VESTIBULES (MINIMUM 2400MM X 2400MM) AND TACK MATS BETWEEN WORK AREA AND HOSPITAL.

33.3.3.4.3. ESTABLISH VESTIBULES AT WORK AREAS AND TACK MATS. 33.3.3.4.4. ESTABLISH PERIMETER INFECTION CONTROL BARRIERS.

33.3.3.4.5. ESTABLISH CONSTRUCTION CAUTION SIGNS. 33.3.3.4.6. ESTABLISH NEGATIVE AIR SYSTEM VENTED TO EXTERIOR. 33.3.3.5. MATERIALS/DEBRIS TRANSPORTED TO AND FROM THE WORKPLACE SHALL BE

33.3.3.6. WORKERS ARE TO VACUUM EXCESSIVE DUST FROM THEMSELVES AND THEIR WORK CLOTHES PRIOR TO EXITING THE WORK AREA. IF THIS MEASURE PROVES INFFFECTIVE IN CONTROLLING DUST OUTSIDE THE WORK AREA THEN ALL WORKERS WILL BE REQUIRED TO WEAR PROTECTIVE CLOTHING AS REFERENCED

TRANSPORTED IN COVERED CARTS. PRIOR TO LEAVING THE WORK SITE

EXTERIOR SURFACES ON ALL CARTS SHALL BE WIPED CLEAN TO PREVENT DUST

33.3.3.7. CONTROL DUST BY WATER-MISTING SURFACE WHILE CUTTING. 33.3.3.8. REMOVE INFECTION CONTROL MEASURES UPON COMPLETION OF PROJECT.

FROM LEAVING THE WORK SITE.

THE PLANS FOR THE WORK ACCOMPANYING THESE SPECIFICATIONS ARE MADE AS ACCURATELY AS POSSIBLE, BUT ABSOLUTE ACCURACY OF DIMENSIONS CANNOT BE GUARANTEED. THEY ARE INTENDED TO SUPPLEMENT AND SIMPLIFY THE GENERAL CONTRACT DRAWINGS. NO CLAIMS FOR EXTRA PAYMENT ON ACCOUNT OF THE DIFFERENCE OF ACTUAL AND ESTIMATED DIMENSIONS WILL BE ALLOWED, EXACT LOCATION OF ALL FLECTRICAL WORK TO BE DETERMINED WITH ARCHITECTURAL FLOOR PLANS, FURNITURE AND EQUIPMENT LAYOUTS PRIOR TO ANY

THE PLANS LISTED BELOW FORM AN INTEGRAL PART OF THIS SPECIFICATION E100 - ELECTRICAL SPECIFICATIONS, LEGEND & KEY PLANS E200 - ELECTRICAL DEMOLITION PLAN & DETAIL E201 - ELECTRICAL NEW WORKS PLAN, DETAIL & SCHEDULE

....... LOCATION OF EXISTING PANELBOARD 'D' KEY PLAN - LOWER FLOOR

ELECTRICAL LEGEND

LIGHT LINEWEIGHT INDICATES EXISTING TO REMAIN

FIRE ALARM DUCT DETECTOR, PHOTOELECTRIC TYPE

FIRE ALARM ADDRESSABLE OUTPUT RELAY MODULE

HEAVY LINEWEIGHT INDICATES NEW WORK

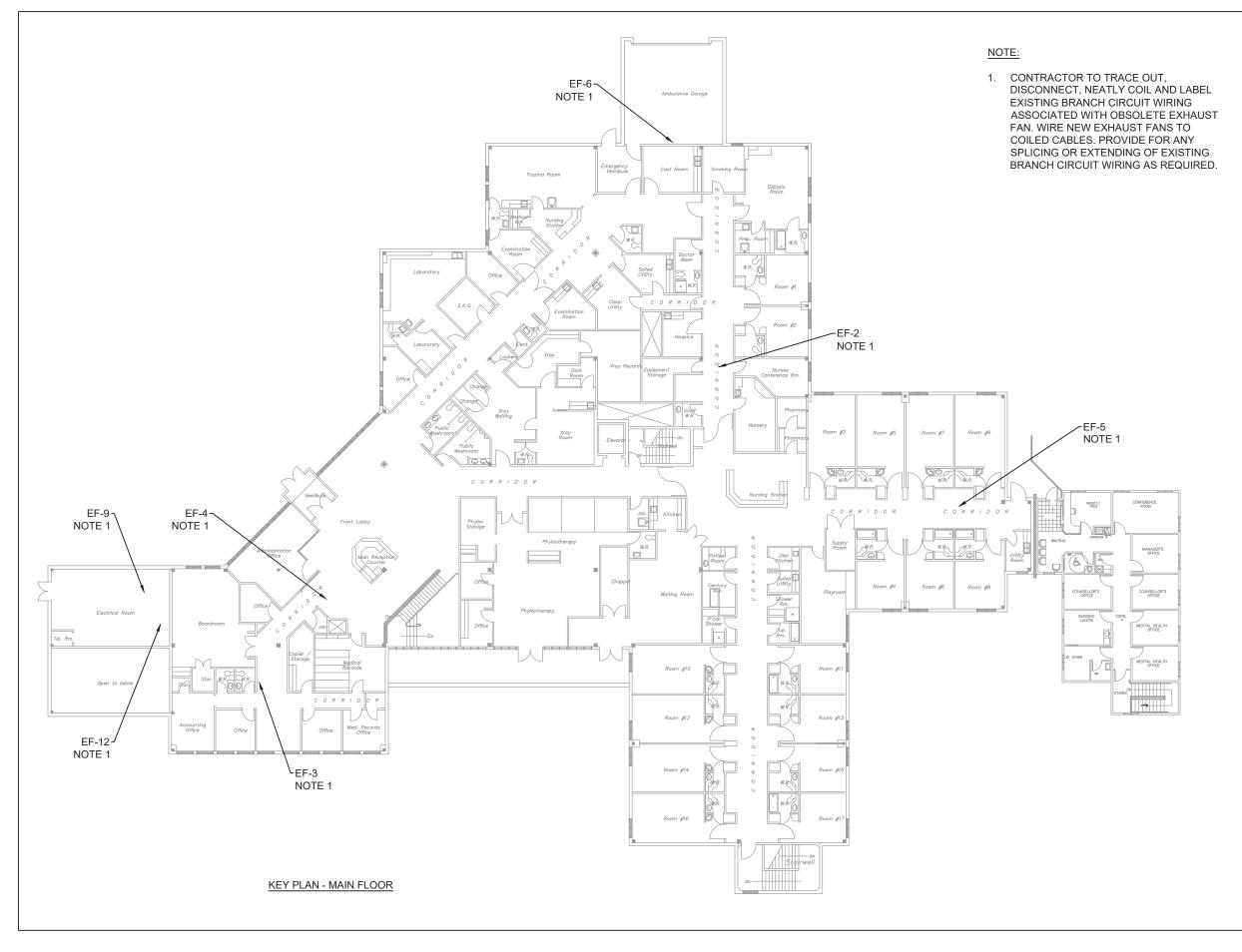
SINGLE PHASE MOTOR

DIRECT CONNECTION

DUPLEX RECEPTACLE

THREE PHASE MOTOR

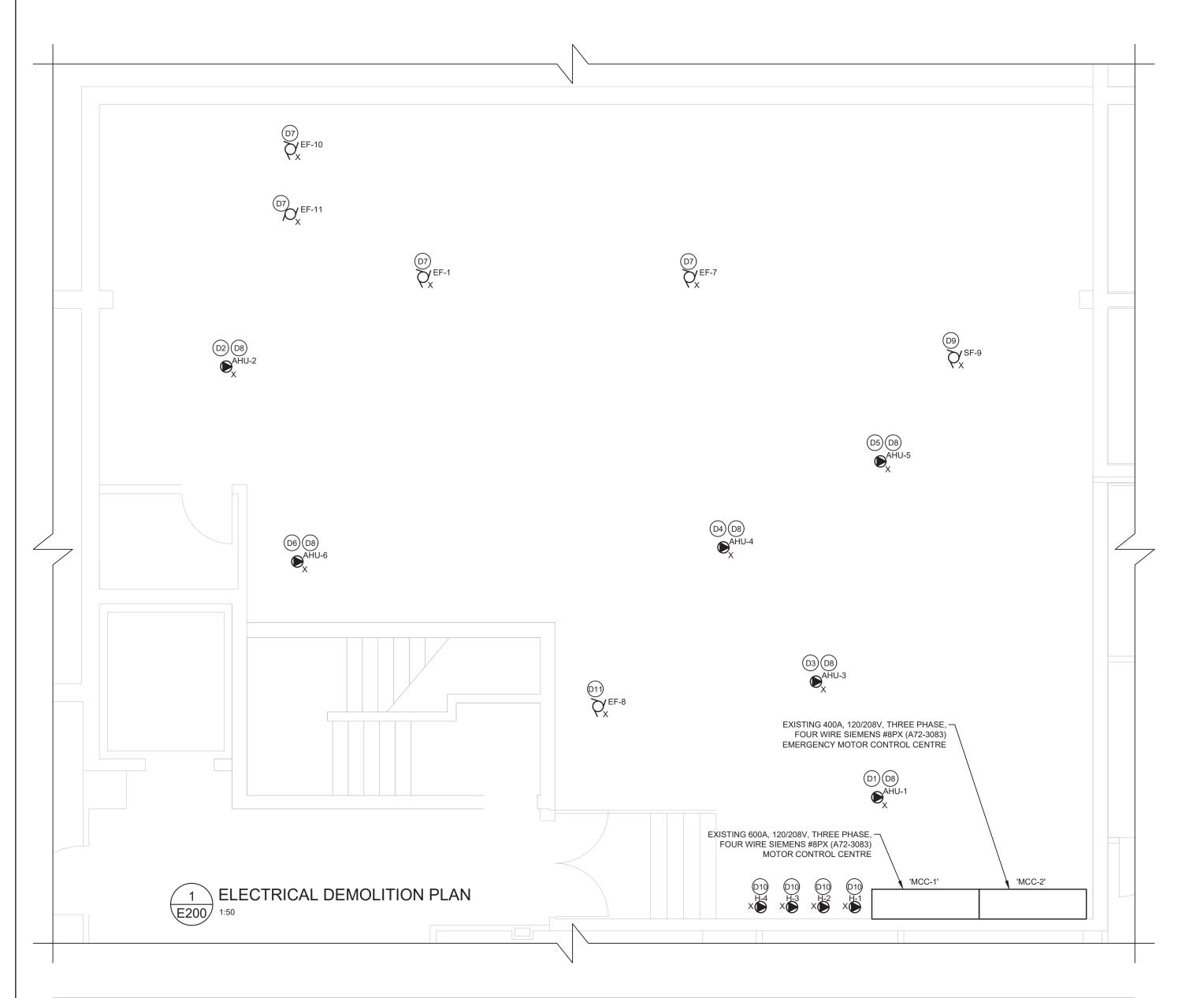
VARIABLE FREQUENCY DRIVE

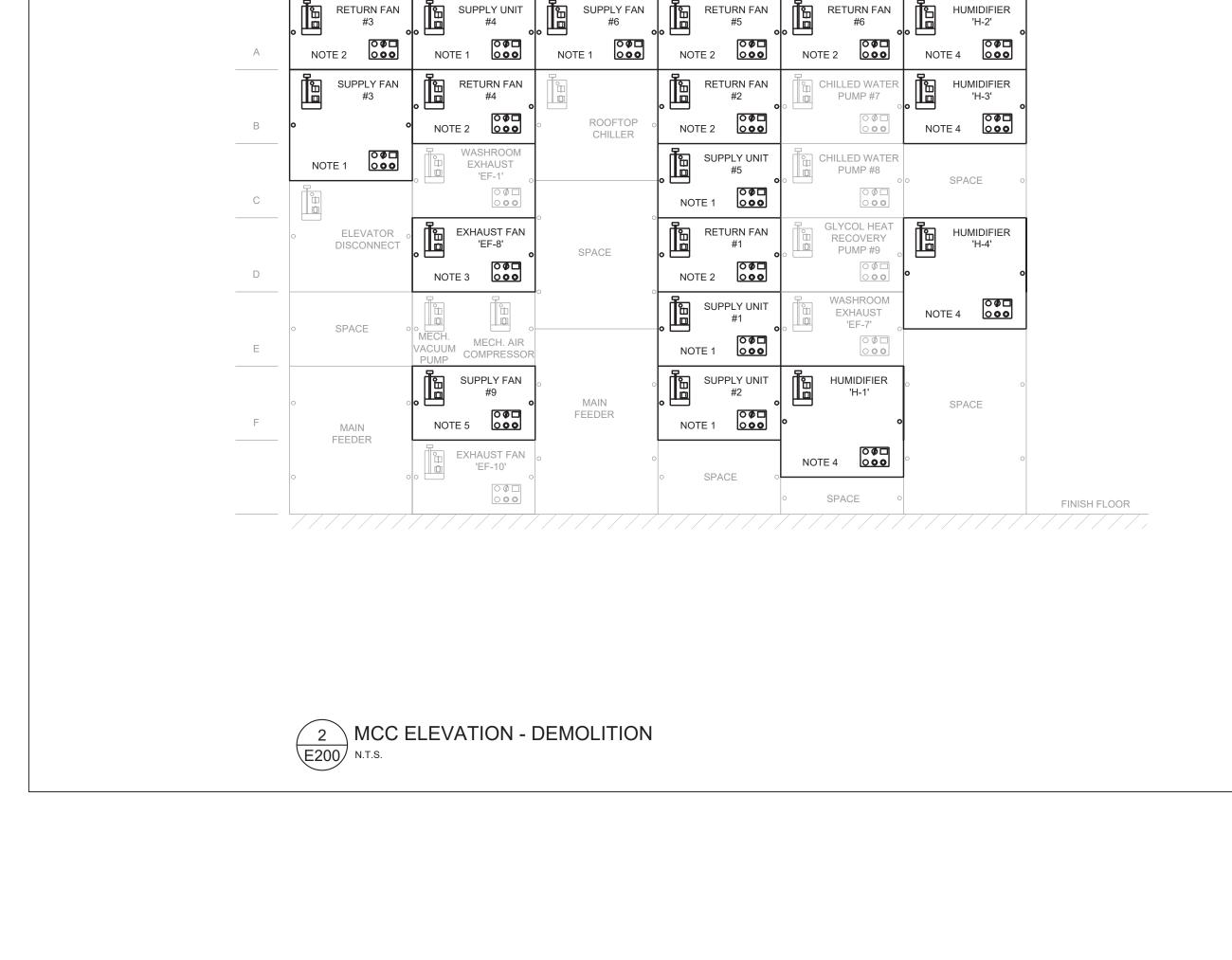


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|AHU Replacements





MCC-1

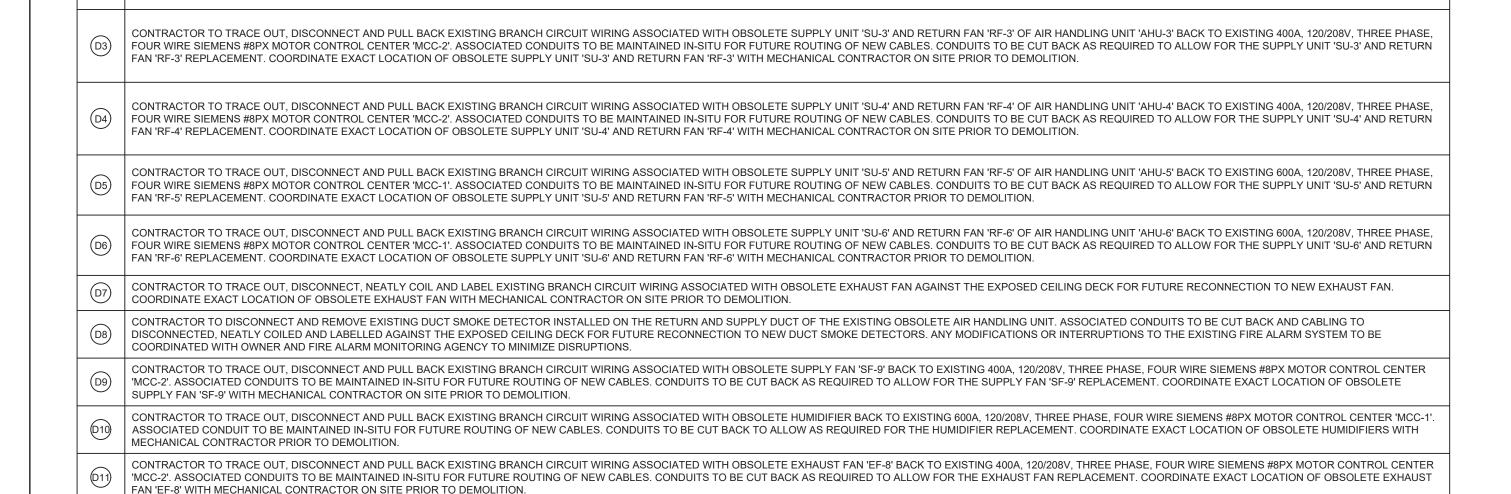
MCC-2

GENERAL NOTES:

- ALL WORK TO EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1' AND 400A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX EMERGENCY MOTOR CONTROL CENTRES 'MCC-2' IS TO BE COMPLETED BY A CERTIFIED MANUFACTURER'S TECHNICIAN. PROVIDE FOR VERIFICATION AND CERTIFICATION OF THE MODIFIED MOTOR CONTROL CENTRES.
- CONTRACTOR TO SCHEDULE AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER PRIOR TO THE COMMENCEMENT OF ANY ELECTRICAL WORK ASSOCIATED WITH THE DEMOLITION OF THE EXISTING SUPPLY AND RETURN FANS TO ENSURE NO DISRUPTIONS TO THE DAILY OPERATION OF THE HOSPITAL.
- 3. ALL EXISTING ESSENTIAL LOADS THAT ARE CURRENTLY WIRED TO EXISTING 400A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX EMERGENCY MOTOR CONTROL CENTRES 'MCC-2' THAT ARE TO BE MAINTAINED IN-SITU TO REMAIN OPERATIONAL AT ALL TIMES. ANY REQUIRED TEMPORARY SHUTDOWN TO BE COORDINATED WITH OWNER.
- 4. ALL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE SITE ADMINISTRATOR PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL REMAIN SENSITIVE AT ALL TIMES TO THE EXTENT TO WHICH NOISE AND CONSTRUCTION ACTIVITIES WILL DISRUPT OCCUPANTS AND ACTIVITIES AND MUST ENDEAVOR TO MINIMIZE DISRUPTION AT ALL TIMES. CONTRACTOR SHALL CONSTRUCT OR PRE-FABRICATE AS MUCH AS POSSIBLE OFF-SITE FOR ASSEMBLY ON-SITE IN ORDER TO MINIMIZE DISRUPTIONS. CONTRACTOR TO ADVISE THE SITE ADMINISTRATOR 72 HOURS IN ADVANCE IF DISRUPTION WILL OCCUR DUE TO DRILLING, EQUIPMENT DELIVERIES, DEMOLITION, ACCESS RESTRICTIONS OR ANY OTHER ITEMS WHICH MAY IMPEDE REGULAR OPERATIONS.

NOTES:

- 1. CONTRACTOR TO DE-ENERGIZE, DISCONNECT AND REMOVE EXISTING MCC STARTER BUCKET AND ALL INTERIOR WIRING AND COMPONENTS SUCH AS THE CONTROL TRANSFORMER, CIRCUIT BREAKER, FUSES, CONTACTORS AND DISCONNECT ASSOCIATED WITH THE SUPPLY UNIT AND TURN OVER TO OWNER TO ALLOW FOR THE INSTALLATION OF A NEW MCC STARTER BUCKET. COORDINATE DE-ENERGIZING OF THE CONNECTED LOAD WITHIN THE EXISTING MCC BUCKET WITH OWNER TO MINIMIZE DISRUPTIONS TO DAY-TO-DAY OPERATIONS.
- 2. CONTRACTOR TO DE-ENERGIZE, DISCONNECT AND REMOVE EXISTING MCC STARTER BUCKET AND ALL INTERIOR WIRING AND COMPONENTS SUCH AS THE CONTROL TRANSFORMER, CIRCUIT BREAKER, FUSES, CONTACTORS AND DISCONNECT ASSOCIATED WITH THE RETURN FAN AND TURN OVER TO OWNER TO ALLOW FOR THE INSTALLATION OF A NEW MCC STARTER BUCKET. COORDINATE DE-ENERGIZING OF THE CONNECTED LOAD WITHIN THE EXISTING MCC BUCKET WITH OWNER TO MINIMIZE DISRUPTIONS TO DAY-TO-DAY OPERATIONS.
- 3. CONTRACTOR TO DE-ENERGIZE, DISCONNECT AND REMOVE EXISTING MCC STARTER BUCKET AND ALL INTERIOR WIRING AND COMPONENTS SUCH AS THE CONTROL TRANSFORMER, CIRCUIT BREAKER, FUSES, CONTACTORS AND DISCONNECT ASSOCIATED WITH EXHAUST FAN 'EF-8' AND TURN OVER TO OWNER TO ALLOW FOR THE INSTALLATION OF A NEW MCC STARTER BUCKET. COORDINATE DE-ENERGIZING OF THE CONNECTED LOAD WITHIN THE EXISTING MCC BUCKET WITH OWNER TO MINIMIZE DISRUPTIONS TO DAY-TO-DAY OPERATIONS.
- 4. CONTRACTOR TO DE-ENERGIZE, DISCONNECT AND REMOVE EXISTING MCC STARTER BUCKET AND ALL INTERIOR WIRING AND COMPONENTS SUCH AS THE CONTROL TRANSFORMER, CIRCUIT BREAKER, FUSES, CONTACTORS AND DISCONNECT ASSOCIATED WITH THE HUMIDIFIER AND TURN OVER TO OWNER TO ALLOW FOR THE INSTALLATION OF A NEW MCC FUSIBLE FEEDER BUCKET. COORDINATE DE-ENERGIZING OF THE CONNECTED LOAD WITHIN THE EXISTING MCC BUCKET WITH OWNER TO MINIMIZE DISRUPTIONS TO DAY-TO-DAY OPERATIONS.
- 5. CONTRACTOR TO DE-ENERGIZE, DISCONNECT AND REMOVE EXISTING MCC STARTER BUCKET AND ALL INTERIOR WIRING AND COMPONENTS SUCH AS THE CONTROL TRANSFORMER, CIRCUIT BREAKER, FUSES, CONTACTORS AND DISCONNECT ASSOCIATED WITH SUPPLY FAN 'SF-9' AND TURN OVER TO OWNER TO ALLOW FOR THE INSTALLATION OF A NEW MCC STARTER BUCKET. COORDINATE DE-ENERGIZING OF THE CONNECTED LOAD WITHIN THE EXISTING MCC BUCKET WITH OWNER TO MINIMIZE DISRUPTIONS TO DAY-TO-DAY OPERATIONS.



ELECTRICAL DEMOLITION NOTES

FAN 'RF-1' REPLACEMENT. COORDINATE EXACT LOCATION OF OBSOLETE SUPPLY UNIT 'SU-1' AND RETURN FAN 'RF-1' WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO DEMOLITION.

FAN 'RF-2' REPLACEMENT. COORDINATE EXACT LOCATION OF OBSOLETE SUPPLY UNIT 'SU-2' AND RETURN FAN 'RF-2' WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO DEMOLITION.

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CONTRACTOR TO TRACE OUT, DISCONNECT AND PULL BACK EXISTING BRANCH CIRCUIT WIRING ASSOCIATED WITH OBSOLETE SUPPLY UNIT 'SU-1' AND RETURN FAN 'RF-1' OF AIR HANDLING UNIT 'AHU-1' BACK TO EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTER 'MCC-1'. ASSOCIATED CONDUITS TO BE MAINTAINED IN-SITU FOR FUTURE ROUTING OF NEW CABLES. CONDUITS TO BE CUT BACK AS REQUIRED TO ALLOW FOR THE SUPPLY UNIT 'SU-1' AND RETURN

CONTRACTOR TO TRACE OUT, DISCONNECT AND PULL BACK EXISTING BRANCH CIRCUIT WIRING ASSOCIATED WITH OBSOLETE SUPPLY UNIT 'SU-2' AND RETURN FAN 'RF-2' OF AIR HANDLING UNIT 'AHU-2' BACK TO EXISTING 600A, 120/208V, THREE PHASE,

FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTER 'MCC-1'. ASSOCIATED CONDUITS TO BE MAINTAINED IN-SITU FOR FUTURE ROUTING OF NEW CABLES. CONDUITS TO BE CUT BACK AS REQUIRED TO ALLOW FOR THE SUPPLY UNIT 'SU-2' AND RETURN

Architecture + Engineering + Project Management

Eliot S. Coles V

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18.07.2013

27.07.2013

Department of Transportation & Infrastructure

Souris Hospital AHU Replacements

Electrical Demolition Plan & Detail

No. Description

Date

Date: 2023-07-18

Drn By: C.L.S., C.E.T. / A.M., E.I.T.

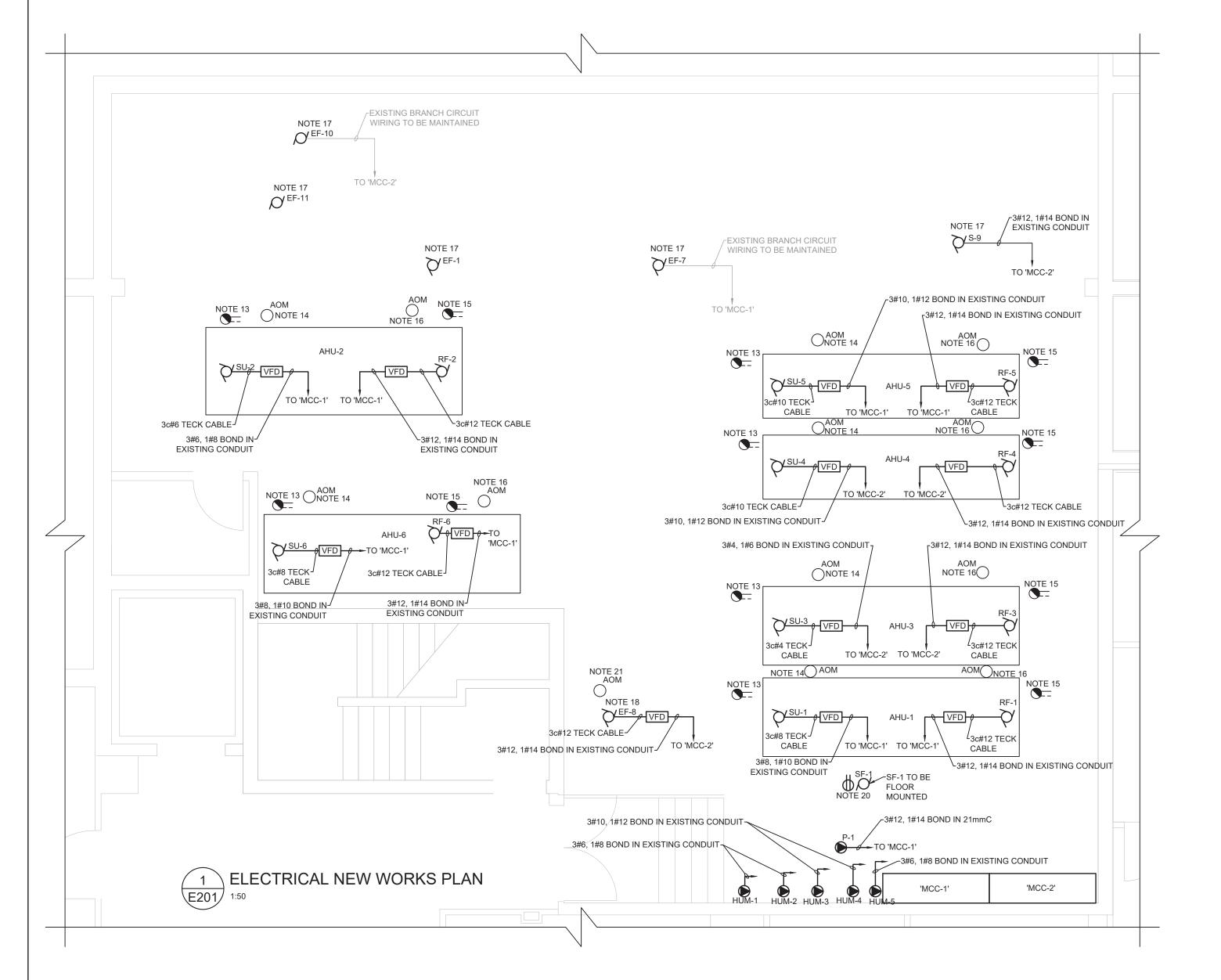
Chk By: E.S.C., P.ENG

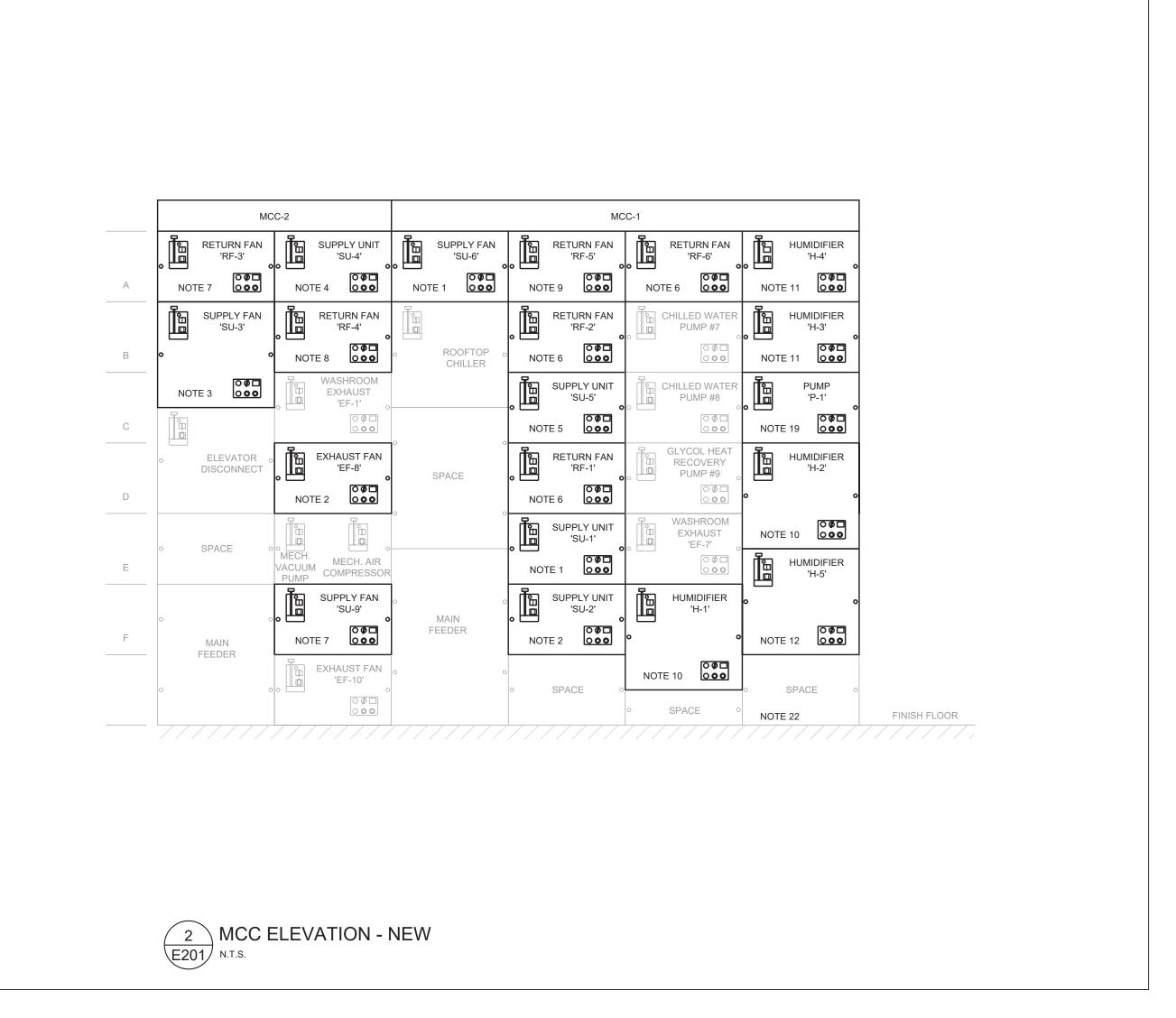
Project Number:

221165

Drawing Number:

E200





								MECHANICAL EQUIPMENT SCHEDULE
TYPE	LOCATION	DESCRIPTION	VOLTS	PHASE		TED HP	AMPS	REMARKS
EF-1	L09	EXHAUST FAN	208	3	-	3/4	-	
EF-2	ROOFTOP	EXHAUST FAN	120	1	-	1/2	-	
EF-3	ROOFTOP	EXHAUST FAN	120	1	-	1/20	-	
EF-4	ROOFTOP	EXHAUST FAN	120	1	-	1/4	-	EXHAUST FAN TO BE WIRED TO EXISTING COILED BRANCH CIRCUIT WIRING. PROVIDE FOR ANY SPLICING AND EXTENDING OF EXISTING BRANCH CIRCUIT WIRING AS REQUIRED. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
EF-5	ROOFTOP	EXHAUST FAN	120	1	-	2/5	-	
EF-6	ROOFTOP	EXHAUST FAN	120	1	-	1/4	-	
EF-7	L09	EXHAUST FAN	208	3	-	3/4	-	
EF-8	L09	EXHAUST FAN	208	3	-	2	-	EXHAUST FAN 'EF-8' TO BE WIRED THROUGH VFD, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR, WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 400A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-2'. ALL CONTROLS WIRING FROM MCC STARTER BUCKET TO EF-8 THROUGH VFD TO BE COMPLETED BY OTHERS. EXHAUST FAN 'EF-8' TO BE INTERFACED WITH FIRE ALARM ADDRESSABLE OUTPUT MODULE TO PROVIDE FOR ITS SHUTDOWN IN THE EVENT OF A FIRE ALARM. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
EF-9	ROOFTOP	EXHAUST FAN	120	1	-	1/4	-	
EF-10	L09	EXHAUST FAN	120	1	-	1/3	-	——————————————————————————————————————
EF-11	L09	EXHAUST FAN	120	1	-	1/6	-	— EXHAUST FAIN TO BE WIRED TO EXISTING COILED BRANCH CIRCUIT WIRING. PROVIDE FOR ANY SPLICING AND EXTENDING OF EXISTING BRANCH CIRCUIT WIRING AS REQUIRED. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
EF-12	ROOFTOP	EXHAUST FAN	208	3	-	1/2	-	
HUM-1	L09	HUMIDIFIER	208	3	16.3	-	45 (MC) 60 (MOC	WIRE HUMIDIFIER WITH 3#6, 1#8 BOND IN EXISTING CONDUIT TO A NEW 208V, THREE PHASE, 65KAIC, SINGLE 60A RATED FUSIBLE FEEDER BUCKET OF THE EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN. CA) CP) WIRE HUMIDIFIER WITH 3#10, 1#12 BOND IN EXISTING CONDUIT TO A NEW 208V, THREE PHASE, 65KAIC, SINGLE 30A RATED FUSIBLE FEEDER BUCKET OF THE EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
HUM-2	L09	HUMIDIFIER	208	3	16.3	-	45 (MC) 60 (MOC) 20 (MC)	
HUM-3	L09	HUMIDIFIER	208	3	7.7	-	25 (MC) 25 (MC)	
HUM-4	L09	HUMIDIFIER	208	3	7.7	-	25 (MOC	
HUM-5	L09	HUMIDIFIER	208	3	16.3	-	45 (MC) 60 (MOC	
RF-1 (AHU-1)	L09	RETURN FAN	208	3	-	1/2	-	RETURN FAN RF-1 ASSOCIATED WITH AHU-1 TO BE WIRED THROUGH VFD, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR, WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. ALL CONTROLS WIRING FROM MCC STARTER BUCKET TO RF-1 THROUGH VFD TO BE COMPLETED BY OTHERS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
RF-2 (AHU-2)	L09	RETURN FAN	208	3	-	3	-	RETURN FAN RF-2 ASSOCIATED WITH AHU-2 TO BE WIRED THROUGH VFD, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR, WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. ALL CONTROLS WIRING FROM MCC STARTER BUCKET TO RF-2 THROUGH VFD TO BE COMPLETED BY OTHERS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
RF-3 (AHU-3) RF-4	L09	RETURN FAN	208	3	-	3	-	RETURN FAN RF-3 ASSOCIATED WITH AHU-3 TO BE WIRED THROUGH VFD, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR, WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 400A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-2'. ALL CONTROLS WIRING FROM MCC STARTER BUCKET TO RF-3 THROUGH VFD TO BE COMPLETED BY OTHERS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
(AHU-4)	L09	RETURN FAN	208	3	-	1	-	RETURN FAN RF-4 ASSOCIATED WITH AHU-4 TO BE WIRED THROUGH VFD, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN. RETURN FAN RF-5 ASSOCIATED WITH AHU-5 TO BE WIRED THROUGH VFD, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR.
(AHU-5)	L09	RETURN FAN	208	3	-	1	-	SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. ALL CONTROLS WIRING FROM MCC STARTER BUCKET TO RF-5 THROUGH VFD. SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN. RETURN FAN RF-6 ASSOCIATED WITH AHU-6 TO BE WIRED THROUGH VFD. SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR. WITH 3#12, 1#14 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRED BY ELECTRICAL CONTRACTOR.
(AHU-6)	L09	RETURN FAN	208	3	-	3	-	SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. ALL CONTROLS WIRING FROM MCC STARTER BUCKET TO RF-6 THROUGH VFD TO BE COMPLETED BY OTHERS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTROLS OF THE CONTROL CENTRE CONTROL CENTRE CONTROLS WIRING FROM MCC STARTER BUCKET TO RF-6 THROUGH VFD TO BE COMPLETED BY OTHERS.
SU-1 (AHU-1)	L09	SUPPLY UNIT	208	3	-	7-1/2	-	SUPPLY UNIT SU-1 ASSOCIATED WITH AHU-1 TO BE WIRED THROUGH VFD, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR, WITH 3#8, 1#10 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. ALL CONTROLS WIRING FROM MCC STARTER BUCKET TO SU-1 THROUGH VFD TO BE COMPLETED BY OTHERS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
SU-2 (AHU-2)	L09	SUPPLY UNIT	208	3	-	10	-	SUPPLY UNIT SU-2 ASSOCIATED WITH AHU-2 TO BE WIRED THROUGH VFD, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR, WITH 3#6, 1#8 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. ALL CONTROLS WIRING FROM MCC STARTER BUCKET TO SU-2 THROUGH VFD TO BE COMPLETED BY OTHERS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
SU-3 (AHU-3)	L09	SUPPLY UNIT	208	3	-	15	-	SUPPLY UNIT SU-3 ASSOCIATED WITH AHU-3 TO BE WIRED THROUGH VFD, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR, WITH 3#4, 1#6 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 400A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-2'. ALL CONTROLS WIRING FROM MCC STARTER BUCKET TO SU-3 THROUGH VFD TO BE COMPLETED BY OTHERS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
SU-4 (AHU-4)	L09	SUPPLY UNIT	208	3	-	5	-	SUPPLY UNIT SU-4 ASSOCIATED WITH AHU-4 TO BE WIRED THROUGH VFD, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR, WITH 3#10, 1#12 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 400A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-2'. ALL CONTROLS WIRING FROM MCC STARTER BUCKET TO SU-4 THROUGH VFD TO BE COMPLETED BY OTHERS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
SU-5 (AHU-5) SU-6	L09	SUPPLY UNIT	208	3	-	5	-	SUPPLY UNIT SU-5 ASSOCIATED WITH AHU-5 TO BE WIRED THROUGH VFD, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR, WITH 3#10, 1#12 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. ALL CONTROLS WIRING FROM MCC STARTER BUCKET TO SU-5 THROUGH VFD TO BE COMPLETED BY OTHERS. COORDINATE EXACT LOCATED WITH AHU 4 TO BE WIRED THROUGH VFD. SUPPLIED AND WIRED BY ELECTRICAL CONTRACTOR. WITH 3#8, 1#40 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS.
(AHU-6)	L09	SUPPLY UNIT	208	3	-	7-1/2	-	SUPPLY UNIT SU-5 ASSOCIATED WITH AHU-1 TO BE WIRED THROUGH VFD, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR, WITH 3#8, 1#10 BOND IN EXISTING CONDUIT BACK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. ALL CONTROLS WIRING FROM MCC STARTER BUCKET TO SU-5 THROUGH VFD TO BE COMPLETED BY OTHERS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN. SUPPLY FAN S-9 TO BE WIRED THROUGH VFD, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR, WITH 3#12, 1#14 BOND IN EXISTING 400A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL
S-9	L09	SUPPLY UNIT	208	3	-	1/2	-	CENTRE 'MCC-2'. ALL CONTROLS WIRING FROM MCC STARTER BUCKET TO S-9 THROUGH VFD TO BE COMPLETED BY OTHERS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTROLS WIRING FROM MCC STARTER BUCKET TO S-9 THROUGH VFD TO BE COMPLETED BY OTHERS.
SF-1	109	SYSTEM FEEDER	120	1	0.05	-	0.5	PROVIDE 15A CSA 5-15R DUPLEX RECEPTACLE DEDICATED FOR SYSTEM FEEDER. DUPLEX RECEPTACLE TO BE SECURELY FASTENED TO THE SYSTEM FEEDER'S UNISTRUT SUPPORT STRUCTURE. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
P-1	L09	BOOSTER PUMP	208	3	-	1-1/2	-	BOOSTER PUMP P-1 TO BE WIRED BACK WITH 3#12, 1#14 BOND IN 21mmC ROUTED THROUGH THE EXPOSED CEILING DECK TO A NEW MCC STARTER BUCKET LOCATED IN EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. ALL CONTROL WIRING TO BOOSTER PUMP P-1 TO BE COMPLETED BY OTHERS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.

GENERAL NOTES:

- GAUGE OF BRANCH CIRCUIT WIRING TO BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% IN ACCORDANCE WITH CSA 22.1-21 SECTION 8.
- 2. CONDUIT AND CABLING PENETRATING THROUGH FIRE RATED SEPARATIONS TO BE FIRE AND SMOKE SEALED BY GENERAL CONTRACTOR TO MAINTAIN FIRE RATING OF THE STRUCTURE
- EXPOSED ELECTRICAL CONDUIT BOXES AND SUPPORTS IN FINISHED AREAS ARE TO BE PAINTED THE COLOUR OF ADJACENT FINISHED SURFACE. COORDINATE EXACT COLOUR AND ASSOCIATED PAINTING WITH GENERAL CONTRACTOR ON SITE.
- AIR HANDLING UNITS 'AHU-3' AND 'AHU-4' TO BE CONSIDERED AN ESSENTIAL SYSTEM AND WIRED BACK TO EMERGENCY MOTOR CONTROL CENTER 'MCC-2' IN ACCORDANCE WITH CSA Z32 SECTION 6 AND NBCC 2015 ARTICLE 3.2.7.9.
- 5. ALL WORK TO EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1' AND 400A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX EMERGENCY MOTOR CONTROL CENTRES 'MCC-2' IS TO BE COMPLETED BY A CERTIFIED MANUFACTURER'S TECHNICIAN. PROVIDE FOR VERIFICATION AND CERTIFICATION OF THE MODIFIED MOTOR CONTROL CENTRES.
- 6. REFER TO CSA Z317.2-19 FOR ADDITIONAL INFORMATION ON SMOKE MANAGEMENT WITHIN HEALTH CARE FACILITIES.
- 7. ALL NEW FIRE ALARM WORK TO BE COMPLETED IN ACCORDANCE WITH CAN/ULC-S524 AND MODIFIED SYSTEM TO BE VERIFIED IN ACCORDANCE WITH CAN/ULC-S537 AND AN UPDATED FIRE ALARM VERIFICATION REPORT TO BE PROVIDED UPON COMPLETION OF ALL MODIFICATIONS.
- 8. REFER TO MECHANICAL SCHEDULE FOR ADDITIONAL INFORMATION ON MECHANICAL SYSTEMS

NOTES:

NAMEPLATES.

- 1. CONTRACTOR TO SUPPLY AND INSTALL ONE (1) NEW 208V, THREE PHASE, 65KAIC, STARTER BUCKET [SIEMENS #8PX-FVNR1-FUSE] C/W 40A CLASS-J FUSES AND ALL REQUIRED INTERIOR COMPONENTS OF A STARTER BUCKET IN THE EXISTING AVAILABLE SPACE OF THE EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. DOOR KIT, SIDE OPERATING HANDLE AND ALL ASSOCIATED MOUNTING HARDWARE TO BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM. ALL CONTROL WIRING TO VFD ASSOCIATED WITH AIR HANDLING UNIT FAN TO BE COMPLETED BY OTHERS. PROVIDE AND INSTALL A NEW WHITE CORE BLACK FACE LAMICOID NAMEPLATE MOUNTED ONTO THE FACE OF THE NEW MCC BUCKET. VERIFY EXACT NAMING OF ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO MANUFACTURING OF
- 2. CONTRACTOR TO SUPPLY AND INSTALL ONE (1) NEW 208V, THREE PHASE, 65KAIC, STARTER BUCKET [SIEMENS #8PX-FVNR2-FUSE] C/W 60A CLASS-J FUSES AND ALL REQUIRED INTERIOR COMPONENTS OF A STARTER BUCKET IN THE EXISTING AVAILABLE SPACE OF THE EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. DOOR KIT, SIDE OPERATING HANDLE AND ALL ASSOCIATED MOUNTING HARDWARE TO BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM. ALL CONTROL WIRING TO VFD ASSOCIATED WITH AIR HANDLING UNIT FAN TO BE COMPLETED BY OTHERS. PROVIDE AND INSTALL A NEW WHITE CORE BLACK FACE LAMICOID NAMEPLATE MOUNTED ONTO THE FACE OF THE NEW MCC BUCKET. VERIFY EXACT NAMING OF ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO MANUFACTURING OF
- 3. CONTRACTOR TO SUPPLY AND INSTALL ONE (1) NEW 208V, THREE PHASE, 65KAIC, STARTER BUCKET [SIEMENS #8PX-FVNR3-FUSE] C/W 70A CLASS-J FUSES AND ALL REQUIRED INTERIOR COMPONENTS OF A STARTER BUCKET IN THE EXISTING AVAILABLE SPACE OF THE EXISTING 400A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-2'. DOOR KIT, SIDE OPERATING HANDLE AND ALL ASSOCIATED MOUNTING HARDWARE TO BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM. ALL CONTROL WIRING TO VFD ASSOCIATED WITH AIR HANDLING UNIT FAN TO BE COMPLETED BY OTHERS. PROVIDE AND INSTALL A NEW WHITE CORE BLACK FACE LAMICOID NAMEPLATE MOUNTED ONTO THE FACE OF THE NEW MCC BUCKET. VERIFY EXACT NAMING OF ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO MANUFACTURING OF

- 4. CONTRACTOR TO SUPPLY AND INSTALL ONE (1) NEW 208V, THREE PHASE, 65KAIC, STARTER BUCKET [SIEMENS #8PX-FVNR1-FUSE] C/W 30A CLASS-J FUSES AND ALL REQUIRED INTERIOR COMPONENTS OF A STARTER BUCKET IN THE EXISTING AVAILABLE SPACE OF THE EXISTING 400A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-2'. DOOR KIT, SIDE OPERATING HANDLE AND ALL ASSOCIATED MOUNTING HARDWARE TO BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM. ALL CONTROL WIRING TO VFD ASSOCIATED WITH AIR HANDLING UNIT FAN TO BE COMPLETED BY OTHERS.PROVIDE AND INSTALL A NEW WHITE CORE BLACK FACE LAMICOID NAMEPLATE MOUNTED ONTO THE FACE OF THE NEW MCC BUCKET. VERIFY EXACT NAMING OF ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO MANUFACTURING OF NAMEPLATES.
- 5. CONTRACTOR TO SUPPLY AND INSTALL ONE (1) NEW 208V, THREE PHASE, 65KAIC, STARTER BUCKET [SIEMENS #8PX-FVNR1-FUSE] C/W 30A CLASS-J FUSES AND ALL REQUIRED INTERIOR COMPONENTS OF A STARTER BUCKET IN THE EXISTING AVAILABLE SPACE OF THE EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. DOOR KIT, SIDE OPERATING HANDLE AND ALL ASSOCIATED MOUNTING HARDWARE TO BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM. ALL CONTROL WIRING TO VFD ASSOCIATED WITH AIR HANDLING UNIT FAN TO BE COMPLETED BY OTHERS.PROVIDE AND INSTALL A NEW WHITE CORE BLACK FACE LAMICOID NAMEPLATE MOUNTED ONTO THE FACE OF THE NEW MCC BUCKET. VERIFY EXACT NAMING OF ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO MANUFACTURING OF
- 6. CONTRACTOR TO SUPPLY AND INSTALL ONE (1) NEW 208V, THREE PHASE, 65KAIC, STARTER BUCKET [SIEMENS #8PX-FVNR1-FUSE] C/W 20A CLASS-J FUSES AND ALL REQUIRED INTERIOR COMPONENTS OF A STARTER BUCKET IN THE EXISTING AVAILABLE SPACE OF THE EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. DOOR KIT, SIDE OPERATING HANDLE AND ALL ASSOCIATED MOUNTING HARDWARE TO BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM. ALL CONTROL WIRING TO VFD ASSOCIATED WITH AIR HANDLING UNIT FAN TO BE COMPLETED BY OTHERS. PROVIDE AND INSTALL A NEW WHITE CORE BLACK FACE LAMICOID NAMEPLATE MOUNTED ONTO THE FACE OF THE NEW MCC BUCKET. VERIFY EXACT NAMING OF ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO MANUFACTURING OF NAMEPLATES.
- 7. CONTRACTOR TO SUPPLY AND INSTALL ONE (1) NEW 208V, THREE PHASE, 65KAIC, STARTER BUCKET [SIEMENS #8PX-FVNR1-FUSE] C/W 20A CLASS-J FUSES AND ALL REQUIRED INTERIOR COMPONENTS OF A STARTER BUCKET IN THE EXISTING AVAILABLE SPACE OF THE EXISTING 400A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-2'. DOOR KIT, SIDE OPERATING HANDLE AND ALL ASSOCIATED MOUNTING HARDWARE TO BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM. ALL CONTROL WIRING TO VFD ASSOCIATED WITH AIR HANDLING UNIT FAN TO BE COMPLETED BY OTHERS. PROVIDE AND INSTALL A NEW WHITE CORE BLACK FACE LAMICOID NAMEPLATE MOUNTED ONTO THE FACE OF THE NEW MCC BUCKET. VERIFY EXACT NAMING OF ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO MANUFACTURING OF NAMEPLATES.
- 8. CONTRACTOR TO SUPPLY AND INSTALL ONE (1) NEW 208V, THREE PHASE, 65KAIC, STARTER BUCKET [SIEMENS #8PX-FVNR1-FUSE] C/W 15A CLASS-J FUSES AND ALL REQUIRED INTERIOR COMPONENTS OF A STARTER BUCKET IN THE EXISTING AVAILABLE SPACE OF THE EXISTING 400A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-2'. DOOR KIT, SIDE OPERATING HANDLE AND ALL ASSOCIATED MOUNTING HARDWARE TO BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM. ALL CONTROL WIRING TO VFD ASSOCIATED WITH AIR HANDLING UNIT FAN TO BE COMPLETED BY OTHERS. PROVIDE AND INSTALL A NEW WHITE CORE BLACK FACE LAMICOID NAMEPLATE MOUNTED ONTO THE FACE OF THE NEW MCC BUCKET. VERIFY EXACT NAMING OF ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO MANUFACTURING OF NAMEPLATES.
- 9. CONTRACTOR TO SUPPLY AND INSTALL ONE (1) NEW 208V, THREE PHASE, 65KAIC, STARTER BUCKET [SIEMENS #8PX-FVNR1-FUSE] C/W 15A CLASS-J FUSES AND ALL REQUIRED INTERIOR COMPONENTS OF A STARTER BUCKET IN THE EXISTING AVAILABLE SPACE OF THE EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. DOOR KIT, SIDE OPERATING HANDLE AND ALL ASSOCIATED MOUNTING HARDWARE TO BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM. ALL CONTROL WIRING TO VFD ASSOCIATED WITH AIR HANDLING UNIT FAN TO BE COMPLETED BY OTHERS. PROVIDE AND INSTALL A NEW WHITE CORE BLACK FACE LAMICOID NAMEPLATE MOUNTED ONTO THE FACE OF THE NEW MCC BUCKET. VERIFY EXACT NAMING OF ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO MANUFACTURING OF
- 10. CONTRACTOR TO SUPPLY AND INSTALL ONE (1) NEW 208V, THREE PHASE, 65KAIC, SINGLE 60A RATED FUSIBLE FEEDER BUCKET [SIEMENS #8PX-FDS-60A] C/W 60A CLASS-J FUSES AND ALL REQUIRED INTERIOR COMPONENTS OF A STARTER BUCKET IN THE EXISTING AVAILABLE SPACE OF THE EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. DOOR KIT, DOOR MOUNTED OPERATING HANDLE AND ALL ASSOCIATED MOUNTING HARDWARE TO BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM. PROVIDE AND INSTALL A NEW WHITE CORE BLACK FACE LAMICOID NAMEPLATE READING HUMIDIFIER 'HUM-1' AND HUMIDIFIER 'HUM-2' MOUNTED ONTO THE FACE OF THE NEW MCC BUCKET. COORDINATE EXACT NAMEPLATE READING WITH MECHANICAL CONTRACTOR AND OWNER ON SITE PRIOR TO INSTALLATION.
- 11. CONTRACTOR TO SUPPLY AND INSTALL ONE (1) NEW 208V, THREE PHASE, 65KAIC, SINGLE 30A RATED FUSIBLE FEEDER BUCKET [SIEMENS #8PX-FDS-30A] C/W 30A CLASS-J FUSES AND ALL REQUIRED INTERIOR COMPONENTS OF A FUSIBLE FEEDER BUCKET IN THE EXISTING AVAILABLE SPACE IN THE EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1'. DOOR KIT, DOOR MOUNTED OPERATING HANDLE AND ALL ASSOCIATED MOUNTING HARDWARE TO BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM. PROVIDE AND INSTALL A NEW WHITE CORE BLACK FACE LAMICOID NAMEPLATE READING HUMIDIFIER 'HUM-3' AND HUMIDIFIER 'HUM-4' MOUNTED ONTO THE FACE OF THE NEW MCC BUCKET. COORDINATE EXACT NAMEPLATE READING WITH MECHANICAL CONTRACTOR AND OWNER ON SITE PRIOR TO INSTALLATION.
- 12. CONTRACTOR TO REMOVE EXISTING SPACE LOCATED IN CELL #4 SECTIONS E AND F OF EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1' TO FACILITATE INSTALLATION OF ONE (1) NEW 208V, THREE PHASE, 65KAIC, SINGLE 30A RATED FUSIBLE FEEDER BUCKET [SIEMENS #8PX-FDS-30A] C/W 30A CLASS-J FUSES AND ALL REQUIRED INTERIOR COMPONENTS OF A FUSIBLE FEEDER BUCKET. DOOR KIT, DOOR MOUNTED OPERATING HANDLE AND ALL ASSOCIATED MOUNTING HARDWARE TO BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM. PROVIDE AND INSTALL A NEW WHITE CORE BLACK FACE LAMICOID NAMEPLATE READING HUMIDIFIER 'HUM-5' MOUNTED ONTO THE FACE OF THE NEW MCC BUCKET. COORDINATE EXACT NAMEPLATE READING WITH MECHANICAL CONTRACTOR AND OWNER ON SITE PRIOR TO INSTALLATION.
- 13. CONTRACTOR TO SUPPLY AND INSTALL A NEW FIRE ALARM DUCT SMOKE DETECTOR IN THE LINEAR SECTION OF THE MAIN SUPPLY UNIT OF THE ASSOCIATED AIR HANDLING UNIT, DOWNSTREAM FROM THE MIXING BOX FILTER AND FAN IN ACCORDANCE WITH CAN/ULC-S524 ARTICLE 8.5.2. WIRE NEW DUCT SMOKE DETECTOR TO EXISTING COILED FIRE ALARM BRANCH CIRCUIT WIRING. COORDINATE EXACT LOCATION OF SUPPLY UNIT WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
- 14. SUPPLY AND INSTALL A NEW FIRE ALARM ADDRESSABLE OUTPUT MODULE LOCATED ADJACENT TO ASSOCIATED SUPPLY UNIT. ONE OF THE OPEN DRY CONTACTS OF THE FIRE ALARM ADDRESSABLE OUTPUT MODULE TO BE WIRED TO MIXING DAMPER BY OTHERS SUCH THAT IN THE EVENT OF A FIRE ALARM, THE ADDRESSABLE OUTPUT MODULE ALLOWS FOR THE SHUT OFF OF THE AIR HANDLING UNIT'S MIXING DAMPER TO PREVENT THE CIRCULATION OF SMOKE IN ACCORDANCE WITH NBCC 2015 ARTICLE 3.2.4.12 WHILE MAINTAINING THE SUPPLY FAN OPERATIONAL DURING A FIRE TO ASSIST IN KEEPING THE AREAS SMOKE FREE IN ACCORDANCE WITH CSA Z317.2-19 ARTICLE 6.15.2. COORDINATE EXACT FIRE ALARM ADDRESSABLE OUTPUT MODULE CONTROL WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
- 15. CONTRACTOR TO SUPPLY AND INSTALL A NEW FIRE ALARM DUCT SMOKE DETECTOR IN THE LINEAR SECTION OF THE RETURN FAN OF THE ASSOCIATED AIR HANDLING UNIT, DOWNSTREAM FROM THE MIXING BOX FILTER AND FAN IN ACCORDANCE WITH CAN/ULC-S524 ARTICLE 8.5.2. WIRE NEW DUCT SMOKE DETECTOR TO EXISTING COILED FIRE ALARM BRANCH CIRCUIT WIRING. COORDINATE EXACT LOCATION OF RETURN FAN WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
- 16. SUPPLY AND INSTALL A NEW FIRE ALARM ADDRESSABLE OUTPUT MODULE LOCATED ADJACENT TO ASSOCIATED RETURN FAN SUCH THAT IN THE EVENT SMOKE IS DETECTED WITHIN THE RETURN DUCT, ASSOCIATED SUPPLY UNIT TO BE SHUTOFF TO CREATE A ZONE OF NEGATIVE PRESSURE. COORDINATE EXACT FIRE ALARM ADDRESSABLE OUTPUT MODULE CONTROL WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
- 17. WIRE NEW EXHAUST FAN TO EXISTING COILED BRANCH CIRCUIT WIRING. PROVIDE FOR ANY SPLICING AND EXTENDING OF EXISTING BRANCH CIRCUIT WIRING AS REQUIRED.
- 18. CONTRACTOR TO SUPPLY AND INSTALL ONE (1) NEW 208V, THREE PHASE, 65KAIC, STARTER BUCKET [SIEMENS #8PX-FVNR1-FUSE] C/W 15A CLASS-J FUSES AND ALL REQUIRED INTERIOR COMPONENTS OF A STARTER BUCKET IN THE EXISTING AVAILABLE SPACE OF THE EXISTING 400A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-2'. DOOR KIT, SIDE OPERATING HANDLE AND ALL ASSOCIATED MOUNTING HARDWARE TO BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM. ALL CONTROL WIRING TO VFD ASSOCIATED WITH AIR HANDLING UNIT FAN TO BE COMPLETED BY OTHERS. PROVIDE AND INSTALL A NEW WHITE CORE BLACK FACE LAMICOID NAMEPLATE MOUNTED ONTO THE FACE OF THE NEW MCC BUCKET READING EXHAUST FAN 'EF-8'. VERIFY EXACT NAMING OF ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO MANUFACTURING OF NAMEPLATES.
- 19. CONTRACTOR TO REMOVE EXISTING SPACE LOCATED IN CELL #4 SECTION C OF EXISTING 600A, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #8PX MOTOR CONTROL CENTRE 'MCC-1' TO FACILITATE INSTALLATION OF ONE (1) NEW 208V, THREE PHASE, 65KAIC, STARTER BUCKET [SIEMENS #8PX-FVNR1-FUSE] C/W 15A CLASS-J FUSES AND ALL REQUIRED INTERIOR COMPONENTS OF A STARTER BUCKET. DOOR KIT, DOOR MOUNTED OPERATING HANDLE AND ALL ASSOCIATED MOUNTING HARDWARE TO BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM. ALL CONTROL WIRING TO BE COMPLETED BY OTHERS. PROVIDE AND INSTALL A NEW WHITE CORE BLACK FACE LAMICOID NAMEPLATE READING PUMP 'P-1' MOUNTED ONTO THE FACE OF THE NEW MCC BUCKET. COORDINATE EXACT NAMEPLATE READING WITH MECHANICAL CONTRACTOR AND OWNER ON SITE PRIOR TO
- 20. DUPLEX RECEPTACLE DEDICATED FOR 'SF-1'. DUPLEX RECEPTACLE TO BE SECURELY FASTENED TO UNISTRUT SUPPORT STRUCTURE ASSOCIATED WITH 'SF-1'. SPLICE AND EXTEND AN EXISTING 15A BRANCH CIRCUIT WIRING OF EXISTING PANELBOARD 'D' LOCATED IN ROOM L20 AS REQUIRED TO WIRE DUPLEX RECEPTACLE. AC90 CABLING TO BE EXTENDED DOWNWARDS AND FASTENED TO THE UNISTRUT SUPPORT STRUCTURE AS
- 21. SUPPLY AND INSTALL ONE (1) NEW ADDRESSABLE INPUT MODULE BELOW CEILING DECK ADJACENT TO EXHAUST FAN 'EF-8' FOR THE FAN'S INTERFACE WITH THE FIRE ALARM CONTROL PANEL SUCH THAT IN THE EVENT OF SMOKE DETECTION IN AHU-2, EXHAUST FAN 'EF-8' TO SHUT DOWN. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.

Revision

22. CONTRACTOR TO PROVIDE A FILLER PLATE AS REQUIRED FOR MODIFIED 'MCC-1' CELL.

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Department of Transportation & Infrastructure

Souris Hospital AHU Replacements

Project Title

Electrical New Works Plan, Detail & Schedule

 No.
 Description
 Date
 Date: 2023-07-18

 1
 Issued for Tender
 2023-07-18
 Drn By: C.L.S., C.E.T. / A.M., E.I.T.

 Chk By: E.S.C., P.ENG

 Project Number:

 221165

Project Number:

221165

Drawing Number:

E201