

| ELECTRICAL SYMBOL LEGEND | |
|---|---|
| SYMBOL | DESCRIPTION |
| RECEPTACLES | |
| DUPLEX RECEPT | DUPLEX RECEPTACLE |
| RECEP C/W WET LOCATION COVERPLATE(DUPLEX SHOWN) | RECEP C/W INTEGRAL GFI(DUPLEX SHOWN) |
| RECEP C/W NEMA 5-20R CONFIG | |
| EQUIPMENT | |
| MOTOR(SEE SCHEDULE) | |
| DIRECT POWER CONNECTION | |
| POWER OR DISTRIBUTION PANEL | |
| | REFER TO SPECIFICATIONS FOR MOUNTING HEIGHTS. |
| SYMBOL | DESCRIPTION |
| GENERAL ELECTRIC | LIGHT SYMBOL INDICATES EXISTING |
| DASHED SYMBOL INDICATES REMOVED | |
| KEYED NOTE(SEE SCHEDULE) | |
| DEMOLITION NOTE(SEE SCHEDULE) | |
| REVISION TAG | |
| FIRE ALARM | |
| DUCT SMOKE DETECTOR(TYPE DENOTED) | |
| GAS DETECTOR(TYPE DENOTED) | |
| FIRE ALARM CONTROL PANEL | |

| ELECTRICAL SYMBOL NOTES | |
|-------------------------|--|
| A-16 | DEVICES. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO PANEL A. CIRCUIT 16 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY A SWITCH. |
| EQ-1 A-1.3.5 | SPECIAL CONNECTIONS. THE EQUIPMENT IS INDICATED BY THE TAG. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: EQUIPMENT NO. 1; 3 PHASE CONNECTION TO PANEL A, CIRCUITS 1, 3, 5. |
| SF-1 A-2.4.6 | MOTOR CONNECTIONS. THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: MOTOR SF-1; 3 PHASE CONNECTION TO PANEL A, CIRCUITS 2, 4, 6. |
| LPN-102 | SYMBOL NOTATIONS: UPPER CASE LETTERS ADJACENT TO SYMBOLS INDICATE A UNIT TYPE. SEE APPROPRIATE SCHEDULE OR SPECIFICATIONS. |
| TRX-1 | CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 2 # 12 CONDUCTORS IN 21mm (3/4") CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE. |
| | PANELBOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES. |
| | TRANSFORMERS. THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTERS "TRX". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "TRX-1". |
| | KEYNOTE. SEE THE KEYED NOTES ON THAT SHEET FOR THE NOTE NUMBER INDICATED. (TYP) INDICATES THAT THE NOTE IS TYPICAL OF THE APPLICATION. |

GENERAL ELECTRICAL NOTES

- A. OUTLETS OR EQUIPMENT SHALL BE MOVED TO ANY POINT WITHIN A 10' RADIUS WHEN THE CONSULTANT REQUESTS RELOCATION PRIOR TO CLOSING OF WALL FRAMING, WITHOUT ADDITIONAL COST.
- B. UNLESS NOTED OTHERWISE, THE CIRCUITING INDICATED ON THE DRAWINGS IS RELOCATED AS SHOWN. OTHER CIRCUITING REQUIREMENTS ON SITE.
- C. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING AND VOLTAGE DROP REQUIREMENTS, UNLESS INDICATED OTHERWISE.
- D. EXPOSING WIRING SHALL NOT BE PERMITTED. WIRING SHALL BE RECESSED IN WALL OR WHEREVER WIRING ARE NOT ACCESSIBLE DUE TO WALL CONSTRUCTION (CONCRETE BLOCK, CONCRETE, BRICK, ETC), PROVIDE RACEWAY AS REQUIRED TO CONCEAL SAME.
- E. MINIMUM CONDUIT SIZE SHALL BE 21mm (3/4") UNLESS NOTED OTHERWISE. WHERE EXISTING WALLS ARE TO BE CHANGED FOR INSTALLATION OF NEW WIRING, CONTRACTOR SHALL CONTRACT WITH SAME TO REMOVE EXISTING. ARRANGE AND PAY FOR ALL CUTTING/REPAIR/PATCHING AS REQUIRED.
- F. EQUIPMENT SHUTDOWN AND THE INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED IN ADVANCE WITH THE OWNER AND SHALL BE KEPT TO A MINIMUM.
- G. ALL LIFE SAFETY SYSTEMS SHALL BE MAINTAINED AND OPERABLE AT ALL TIMES DURING CONSTRUCTION.
- H. CONTRACTOR SHALL CONFIRM ALL EXISTING SYSTEMS TO BE IN WORKING CONDITION PRIOR TO CARRYING OUT MODIFICATIONS. WHERE EXISTING SYSTEMS ARE NOT OPERABLE, NOTIFY THE CONSULTANT PRIOR TO CARRYING OUT WORK.
- J. AS IDENTIFIED IN CONTRACT DOCUMENTS, UNLESS NOTED OTHERWISE, THE TERM "DEMOLISH" SHALL INCLUDE THE COMPLETE REMOVAL OF THE EXISTING ITEM IDENTIFIED. C/W ASSOCIATED WIRING, CONDUIT AND JUNCTION BOXES BACK TO LAST REMAINING DEVICE OR SOURCE. CIRCUITS FREED UP FROM DEMOLISHED ELECTRICAL, SHALL BECOME SPARE. REFER TO THE RENOVATION DRAWINGS FOR FURTHER REQUIREMENTS.
- K. AS INDICATED IN RENOVATION DOCUMENTS, UNLESS NOTED OTHERWISE, THE TERM "RELOCATE" SHALL INCLUDE THE COMPLETE REMOVAL & RELOCATION OF THE EXISTING ITEM IDENTIFIED IN ITS CURRENT LOCATION, WITH A NEW ITEM, UTILIZING THE EXISTING OUTLET BOX AND WIRING. REFER TO THE RENOVATION DRAWING KEY NOTES FOR FURTHER REQUIREMENTS.
- L. AS INDICATED IN RENOVATION DOCUMENTS, UNLESS NOTED OTHERWISE, THE TERM "RELOCATE" SHALL INCLUDE THE COMPLETE RELOCATION OF THE EXISTING ITEM IDENTIFIED IN ITS CURRENT LOCATION ON THE DEMOLITION DRAWINGS, TO THE NEW LOCATION AS INDICATED ON THE RENOVATION DRAWINGS. INCLUDE ALL LABOUR AND MATERIALS TO REROUTE/EXTEND/REFIT THE EXISTING CIRCUITY AS REQUIRED TO ACCOMMODATE THE NEW LOCATION. REFER TO THE RENOVATION DRAWING KEY NOTES FOR FURTHER REQUIREMENTS.
- M. SITE CONFIRM ANY ELECTRICAL WITHIN AREAS OF RENOVATION REQUIRING RELOCATION TO ACCOMMODATE THE RENOVATION.
- N. WHERE EXISTING WIRING AND CONDUIT ARE RE-USED, VERIFY EXISTING C/W MPP, AND SUPPLEMENT EXISTING FASTENING AND SUPPORT TO MEET CODE REQUIREMENTS.
- O. WHERE BRANCH CIRCUIT BREAKERS ARE REMOVED, PROVIDE FILLER PLATES FOR BREAKER SPACES.
- P. CIRCUIT BREAKERS SHALL MATCH EXISTING. CONFIRM SHORT CIRCUIT RATING AND TYPE ON SITE, PRIOR TO FINALIZING PRICING.

ELECTRICAL ABBREVIATIONS LIST

| | | | | | |
|-------------|---------------------------|-------|--------------------------|-------|---------------|
| 1P | 1 POLE (2P, 3P, 4P, ETC.) | HP | HORSEPOWER | PF | POWER FACTOR |
| A | AMPERE | HVAC | HEATING, VENTILATING AND | PH | PHASE |
| AFF | ABOVE FINISHED FLOOR | | AIR CONDITIONING | PNL | PANEL |
| AFG | ABOVE FINISHED GRADE | IW | INTERLOCK WITH | PWR | POWER |
| AHU | AIR HANDLING UNIT | J-BOX | JUNCTION BOX | RCPT | RECEPTACLE |
| ALT | ALTERNATE | | | RTU | ROOF TOP UNIT |
| AWG | AMERICAN WIRE GAUGE | KV | KILOVOLT | SHT | SHEET |
| C | CONDUIT | KVA | KILOVOLT-AMPERE | SPEC | SPECIFICATION |
| CB | CIRCUIT BREAKER | KW | KILOWATT | SP | SPARE |
| CKT | CIRCUIT | LV | LOW VOLTAGE | TYP | TYPICAL |
| CONST | CONSTRUCTION | MAX | MAXIMUM | V | VOLT |
| CONTR | CONTRACTOR | MC | MECHANICAL CONTRACTOR | W | WATT |
| CU | COPPER | MDP | MAIN DISTRIBUTION PANEL | W/ | WITH |
| C/W | COMPLETE WITH | MFR | MANUFACTURER | W/O | WITHOUT |
| DISC | DISCONNECT | MIN | MINIMUM | | |
| DIST | DISTRIBUTION | MISC | MISCELLANEOUS | | |
| DWG | DRAWING | MLO | MAIN LUGS ONLY | | |
| EC | ELECTRICAL CONTRACTOR | MTR | MOTOR, MOTORIZED | ANGLE | ANGLE |
| ELEC | ELECTRIC, ELECTRICAL | NEC | NATIONAL ELECTRICAL CODE | @ | AT |
| EXIST | EXISTING | NEMA | NATIONAL ELECTRICAL | Δ | DELTA |
| GC | GENERAL CONTRACTOR | NIC | MANUFACTURER'S | - | FEET |
| GFI | GROUND FAULT CIRCUIT | NTS | ASSOCIATION | " | INCHES |
| INTERRUPTER | | | NOT IN CONTRACT | # | NUMBER |
| GND | GROUND | | NOT TO SCALE | Ø | PHASE |

ELECTRICAL DRAWINGS

| |
|---|
| SYMBOLS & ABBREVIATIONS |
| E0.1 ELECTRICAL SYMBOLS AND ABBREVIATIONS |
| DEMOLITION PLANS |
| ED2.1 ELECTRICAL DEMOLITION PLAN |
| POWER PLANS |
| EP2.1 ELECTRICAL RENOVATION PLAN |
| SCHEDULES |
| E6.1 ELECTRICAL SCHEDULES |

epp siepmann
engineering

400 - 136 Market Avenue
Winnipeg, MB R3B 0P4
T 204 453 1080

**ENGINEERS
GEOSCIENTISTS
MANITOBA**
Certificate of Authorization
Epp Siepmann Engineering Inc.
No. 4035

This is a print of a document that has been electronically authenticated with technology authorized by the Engineers Geoscientists Manitoba. The original is in electronic form.

0 ISSUED FOR CONSTRUCTION
25-09-05
No. REVISION/DESCRIPTION
BY DATE
SEAL



MC DRAWN 03/10/23 MP CHECKED USER APPROVAL
MC DESIGNED MC APPROVED

THE CITY OF WINNIPEG
PLANNING, PROPERTY AND
DEVELOPMENT DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3-65 GARRY STREET, R3C 4K4

PROJECT
TURTLE ISLAND RECREATION CENTRE RTU
REPLACEMENT
510 KING STREET
SHEET TITLE
ELECTRICAL SYMBOLS AND ABBREVIATIONS

SCALE As indicated PROJECT No. 25086 SHEET No. E0.1

DRAWING SHEET SIZE:A1(841mmx594mm)PLOT1:1

NOTES:

DEMOLITION GENERAL NOTES

- A. EQUIPMENT SHUTDOWN AND THE INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED IN ADVANCE WITH THE OWNER AND SHALL BE RELATED TO A MINIMUM.
- B. ALL LIFE SAFETY SYSTEMS SHALL BE MAINTAINED AND OPERABLE AT ALL TIMES DURING CONSTRUCTION.
- C. CONTRACTOR SHALL CONFIRM ALL EXISTING SYSTEMS TO BE REMOVED PRIOR TO CARRYING OUT MODIFICATIONS. WHERE EXISTING SYSTEMS ARE NOT OPERABLE, NOTIFY THE CONSULTANT PRIOR TO CARRYING OUT WORK.
- D. PROVIDE BLANK COVER PLATES OVER ALL EXISTING PLACED OPENINGS.
- E. DRAWINGS RECORDS OF THE EXISTING FLOOR PLANS HAVE BEEN COMPILED FROM INFORMATION SUBMITTED BY THE OWNER AND FROM SITE OBSERVATIONS AS NOTED BY THE CONSULTANT. THE ACCURACY OF THESE DRAWING RECORDS IS LIMITED TO THE EXTENT OF KNOWN CONSTRUCTION INFORMATION.
- F. REMOVE SMOKE DETECTORS IN AREAS OF RENOVATION AND REINSTALL AFTER COMPLETION. PROVIDE TEMPORARY HEAT DETECTORS IN THE CORRIDORS DURING THE CONSTRUCTION PERIOD.

KEY NOTES

- 1 DEMOLISH CONNECTION TO EXISTING ROOF TOP UNIT. RETAIN EXISTING WIRING FOR REUSE IN RENOVATION PHASE. DEMOLISH EXISTING 200A/3P BREAKER WITHIN MAIN DISTRIBUTION PANEL.
- 2 EXISTING EXHAUST FAN TO REMAIN.



 400 - 136 Market Avenue
 Winnipeg, MB R3B 0P4
 T 204 453 1080


This is a print of a document that has been electronically authenticated with technology authorized by the Engineers Geoscientists Manitoba. The original is in electronic form.

| | | |
|------|-------------------------|--------------|
| 0 | ISSUED FOR CONSTRUCTION | 25-09 -05 |
| No. | REVISION/DESCRIPTION | BY DATE |
| SEAL | | |



| | | | | |
|------------------------|---------------------|----------------|----------------|----------------|
| DRAWN DATE 03/10/23 | MC USER APPROVAL | MP REVIEWED | MC DESIGNED | MP APPROVED |
|------------------------|---------------------|----------------|----------------|----------------|

 THE CITY OF WINNIPEG
 PLANNING, PROPERTY AND
 DEVELOPMENT DEPARTMENT
 MUNICIPAL ACCOMMODATIONS DIVISION
 3-65 GARRY STREET, R3C 4K4

 PROJECT
 TURTLE ISLAND RECREATION CENTRE RTU
 REPLACEMENT

 510 KING STREET
 SHEET TITLE
 ELECTRICAL DEMOLITION PLAN

 SCALE PROJECT No. SHEET No.
 As indicated 25086 ED2.1

DRAWING SHEET SIZE:A1(841mmx594mm)PLOT1:1

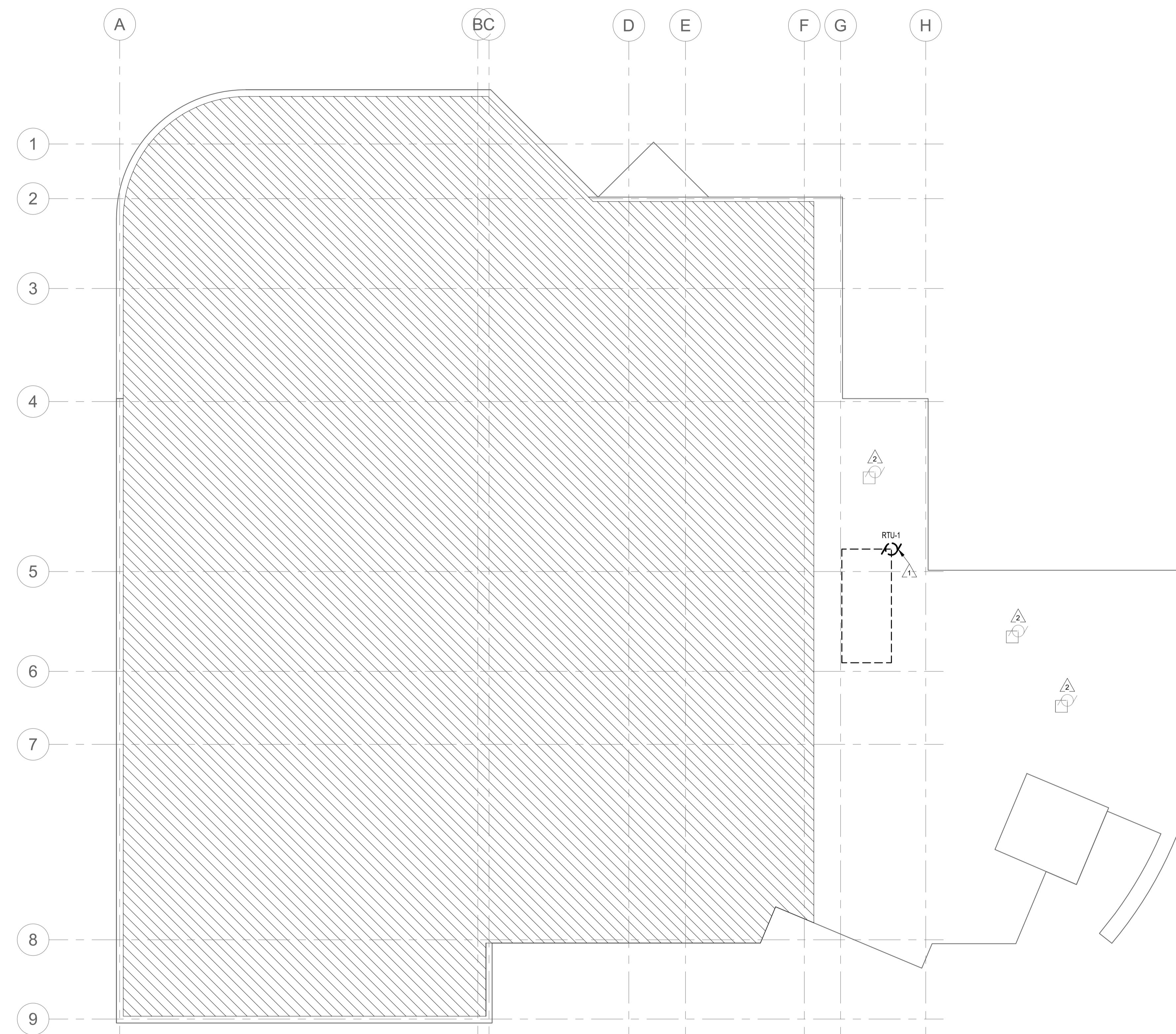
FILE NAME:

DATE: 03/10/23

SHEET TITLE: ELECTRICAL DEMOLITION PLAN

PROJECT No: 25086

ADDRESS: 510 KING STREET


 1 ROOF - POWER & SYSTEMS DEMOLITION
 ED2.1 SCALE: 1/8" = 1'-0"

GENERAL NOTES

- A. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX) THE RECEPTACLE SHALL BE RATED 20A. PROVIDE A 20A CIRCUIT BREAKER WITH COMMON KEY ON ALL STARTERS AND DISCONNECT SWITCHES LOCATED IN PUBLIC AREAS. KEYS SHALL BE HANDED OVER TO OWNER AT END OF PROJECT.
- B. PROVIDE A 20A CIRCUIT BREAKER WITH COMMON KEY ON ALL STARTERS AND DISCONNECT SWITCHES LOCATED IN PUBLIC AREAS. KEYS SHALL BE HANDED OVER TO OWNER AT END OF PROJECT.
- C. FINAL CONNECTION TO ALL MECHANICAL EQUIPMENT SHALL BE MADE BY CONTRACTOR. PROVIDE CIRCUIT BREAKER AND WIRE SIZE WITH MECHANICAL EQUIPMENT SHOP DRAWINGS. ADJUST CIRCUIT BREAKER AND WIRE SIZE AS REQUIRED WITHOUT ADDITIONAL COST TO OWNER.
- D. PROVIDE TESTING AND VERIFICATION FOR ALL NEW AND MODIFIED FIRE ALARM DEVICES.

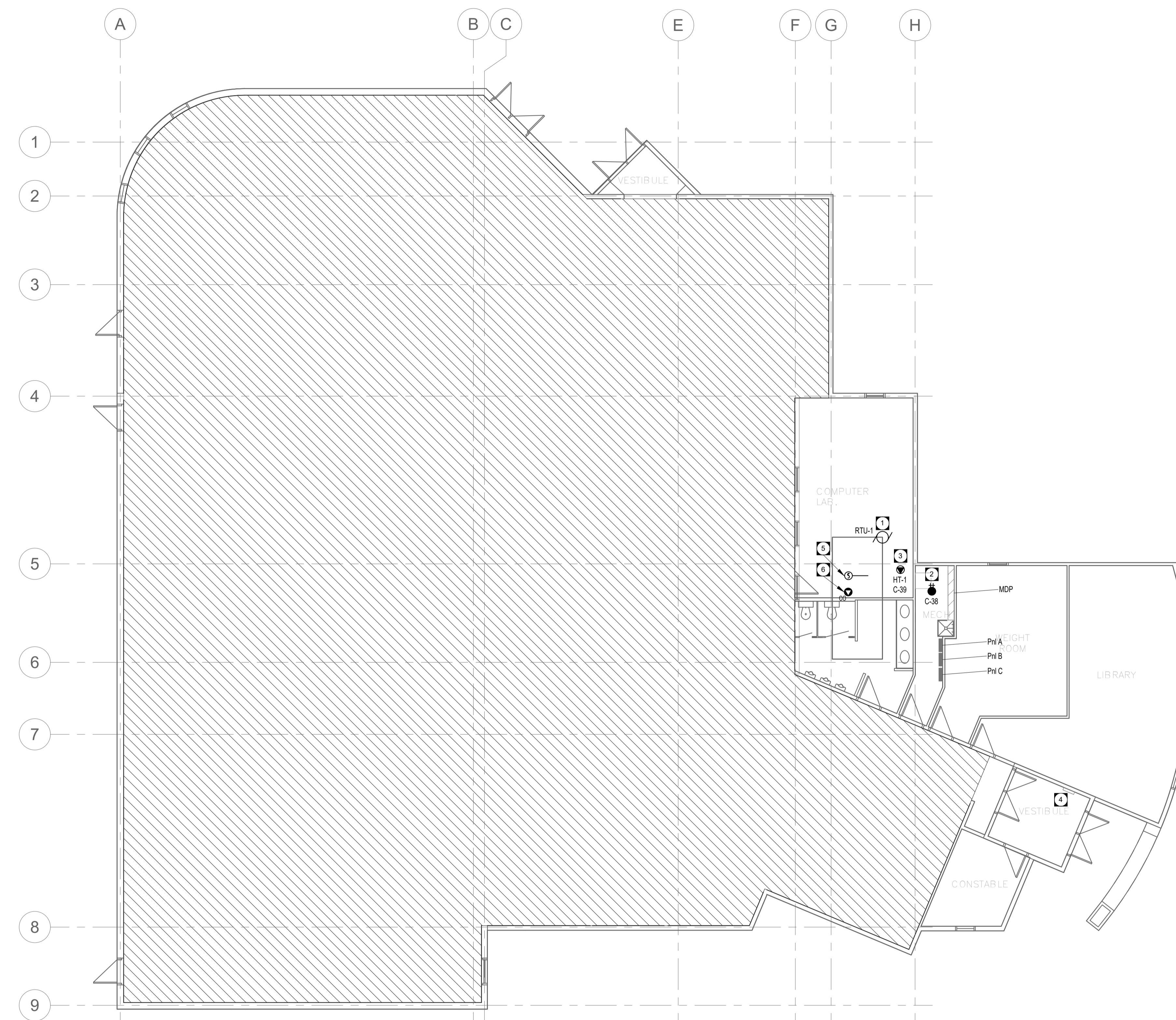
FILE NAME:

DATE: 03/10/23

SHEET TITLE: ELECTRICAL RENOVATION PLAN

PROJECT No: 25086

ADDRESS: 510 KING STREET



1 MAIN FLOOR PLAN - POWER & SYSTEMS
EP2.1 SCALE: 1/8" = 1'-0"

KEY NOTES

- 1 WIRE AND CONNECT NEW ROOF TOP UNIT TO EXISTING CIRCUITRY FREED UP IN DEMOLITION PHASE. PROVIDE NEW 125A/3P BREAKER WITHIN MAIN DISTRIBUTION PANEL TO FEED NEW ROOF TOP UNIT.
- 2 PROVIDE NEW MAINTENANCE RECEPTACLE ON ROOF. REFER TO SHEET E6.1 FOR INSTALLATION DETAIL.
- 3 WIRE AND CONNECT HEAT TRACE AS SUPPLIED BY MECHANICAL. COORDINATE ON SITE FINAL CONNECTION LOCATION.
- 4 EXISTING EDWARDS EST FIRE ALARM CONTROL PANEL. PROVIDE DUCT MOUNTED SMOKE DETECTOR DOWNSTREAM OF MAIN SUPPLY DUCT FOR NEW RTU.
- 5 PROVIDE CO DETECTOR WITHIN RETURN AIR PLENUM OF NEW RTU.

epp siepmann
engineering

400 - 136 Market Avenue
Winnipeg, MB R3B 0P4
T 204 453 1080



This is a print of a document that has been electronically authenticated with technology authorized by the Engineers Geoscientists Manitoba. The original is in electronic form.

| | | |
|------|-------------------------|--------------|
| 0 | ISSUED FOR CONSTRUCTION | 25-09 -05 |
| No. | REVISION/DESCRIPTION | BY DATE |
| SEAL | | |



| | | | | | |
|------------------------|---------------------|----------------|----------|----------------|----|
| DRAWN DATE 03/10/23 | MC USER APPROVAL | MP APPROVED | DESIGNED | MC APPROVED | MP |
|------------------------|---------------------|----------------|----------|----------------|----|

THE CITY OF WINNIPEG
PLANNING, PROPERTY AND
DEVELOPMENT DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3-65 GARRY STREET, R3C 4K4

PROJECT
TURTLE ISLAND RECREATION CENTRE RTU
REPLACEMENT

510 KING STREET
SHEET TITLE
ELECTRICAL RENOVATION PLAN

| | | |
|-----------------------|----------------------|--------------------|
| SCALE As indicated | PROJECT No: 25086 | SHEET No: EP2.1 |
|-----------------------|----------------------|--------------------|

