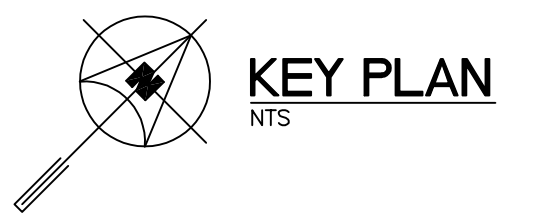
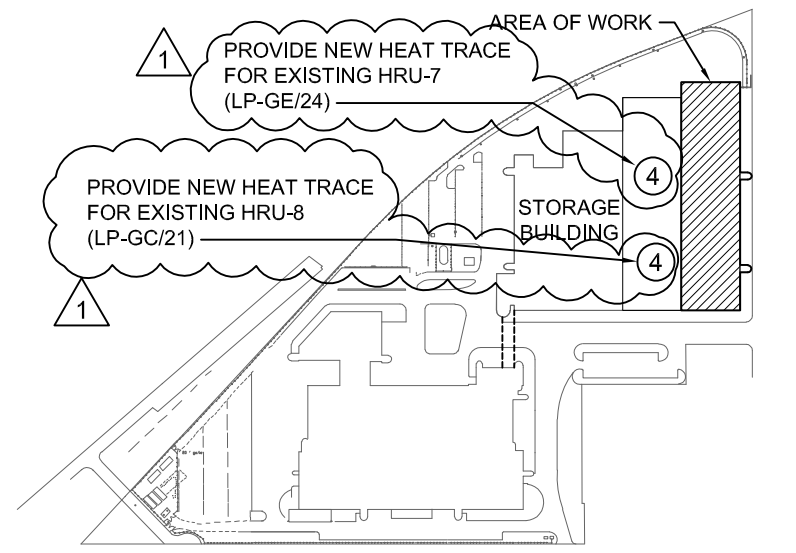


**KEY NOTES**

- CONNECT NEW HRU PROVIDED BY MECHANICAL. REFER TO SINGLE LINE DIAGRAM AND MOTOR SCHEDULE ON DRAWING E3.1 FOR FURTHER DETAILS.
- PROVIDE NEW PEDESTAL MOUNTED CLASS A GFCI 5-20R RECEPTACLE ON ROOF TOP. INSTALL AS PER CEC 26-704. PROVIDE A NEW 20A-1P BREAKER IN EXISTING PANEL AS SHOWN. NEW BREAKER TO MATCH EXISTING IN ALL RESPECTS. WIRE AND CONNECT WITH 2 #10 RW90 IN CONDUIT.
- PROVIDE AND INSTALL NEW BREAKERS TO EXISTING CDP-RS FOR NEW HRU-9, HRU-10 AND HRU-11. BREAKERS TO MATCH EXISTING IN ALL RESPECTS. REFER TO DRAWING E1.3 FOR CDP-RS LOCATION.
- PROVIDE NVENT H612 HEAT TRACE INSIDE EXISTING 1" PVC CONDENSATE DRAIN PIPE ON EXTERIOR OF EXISTING ROOFTOP HEAT RECOVERY UNIT. APPROXIMATE PIPE LENGTH IS 3'. ROUTE HEAT TRACE INTO PIPE FROM OPEN PIPE END OUTSIDE OF HRU. TERMINATE HEAT TRACE INSIDE EXTERIOR WALL OF HRU USING END SEAL. CONNECT OTHER END OF HEAT TRACE TO NVENT 900 HARDWARE CONNECTION KIT, MOUNTED IN NEW NEMA 4X JUNCTION BOX ON HRU MOUNTING FRAME. PROVIDE NVENT EC-TS THERMOSTAT TO CONTROL HEAT TRACE BASED ON AMBIENT AIR TEMPERATURE. CONNECT TO NEW 15A-1P, 30 mA GFCI BREAKER IN PANEL (CIRCUIT AS SHOWN). PROVIDE SEALED PITCH BOX FOR ROOF PENETRATION. REFER TO DRAWING E1.3 FOR HRU AND PANEL LOCATION.
- PROVIDE NVENT H612 HEAT TRACE INSIDE 1" PVC CONDENSATE DRAIN PIPE ON EXTERIOR OF NEW ROOFTOP HEAT RECOVERY UNIT. APPROXIMATE PIPE LENGTH IS 3'. ROUTE HEAT TRACE INTO PIPE FROM OPEN PIPE END OUTSIDE OF HRU. TERMINATE HEAT TRACE INSIDE EXTERIOR WALL OF HRU USING END SEAL. CONNECT OTHER END OF HEAT TRACE TO NVENT 900 HARDWARE CONNECTION KIT, MOUNTED IN NEW NEMA 4X JUNCTION BOX ON HRU MOUNTING FRAME. PROVIDE NVENT EC-TS THERMOSTAT TO CONTROL HEAT TRACE BASED ON AMBIENT AIR TEMPERATURE. CONNECT TO NEW 15A-1P, 30 mA GFCI BREAKER IN PANEL (CIRCUIT AS SHOWN). PROVIDE SEALED PITCH BOX FOR ROOF PENETRATION.



**GENERAL NOTES**

- ELECTRICAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING EXACT LAYOUT, ROUTING, ETC. VERIFY EXISTING SERVICES ON SITE.
- ELECTRICAL SUBCONTRACTOR SHALL ENSURE COORDINATION BETWEEN ALL TRADES AND CONTRACT ADMINISTRATOR, ON AND OFF SITE, AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT.
- PROVIDE LIQUID TIGHT CONNECTORS ON ALL OUTDOOR CONDUITS.
- FINAL CONNECTIONS TO EQUIPMENT AND INTER-CONNECTIONS BETWEEN EQUIPMENT WHERE NECESSARY ARE TO BE MADE BY ELECTRICAL SUBCONTRACTOR.
- CONFIRM ALL EQUIPMENT CONNECTIONS AND ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. MAKE ADJUSTMENTS AND INSTALL AS PER SUPPLIER'S REQUIREMENTS AT NO ADDITIONAL CHARGE.
- THIS BUILDING MAY CONTAIN ASBESTOS. REFER TO FRONT END SPECIFICATIONS FOR FURTHER INFORMATION.
- COORDINATE FINAL LOCATION OF ALL EQUIPMENT WITH MECHANICAL.
- ELECTRICAL SUBCONTRACTOR TO VISIT SITE DURING BID AND VERIFY ALL EXISTING SERVICES ON SITE PRIOR TO SUBMITTING BID. REPORT ANY DISCREPANCIES TO CONTRACT ADMINISTRATOR DURING BID PERIOD.
- COORDINATE WITH THE CITY PRIOR TO SHUT-DOWN OR REMOVAL OF EQUIPMENT.
- UPDATE LAMACOID LABELS AND PANEL DIRECTORIES FOR ALL EXISTING PANELS/MCC'S CDP'S AFFECTED BY THE SCOPE OF WORK (DEMOLITION AND NEW CONSTRUCTION).
- EMPLOY ROOFING SUBCONTRACTOR TO SEAL AROUND ALL NEW PENETRATIONS THROUGH ROOF.
- ELECTRICAL SUBCONTRACTOR TO PROVIDE CORE DRILLING FOR ALL REQUIRED PENETRATIONS. X-RAY SCAN PRIOR TO CORING. DO NOT CUT REBAR. PROVIDE FIRE STOPPING FOR PENETRATIONS THROUGH FIRE RATED WALLS.
- REMOVE ALL ABANDONED EQUIPMENT AND SERVICES WITHIN AREA OF WORK.
- FIRE STOP AROUND ALL NEW PENETRATIONS.

NO.	Description	BY	DDMMYY
1	RE-ISSUED FOR ADDENDUM 2	VEK	07/02/20
0	ISSUED FOR CONSTRUCTION	VEK	16/01/20

**ENGINEERS  
GEOSCIENTISTS**  
MANITOBA  
Certificate of Authorization  
**SMS Engineering Ltd.**  
No. 166

ORIGINAL  
CONTRACT DRAWING  
SIGNED AND SEALED BY  
V.E. KANE, P. ENG  
JANUARY 16, 2020

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Project Title  
**CITY OF WINNIPEG FORT ROUGE  
TRANSIT BASE - STORAGE  
TRACK 25-36 - MECHANICAL  
UPGRADE**  
WINNIPEG MANITOBA

Drawing Title  
**ROOF PLAN -  
TRACK 25-36 -  
ELECTRICAL -  
NEW CONSTRUCTION**

Drawn By WPD	Checked By RD	Approved By VEK
Scale AS NOTED	Date JANUARY, 2020	Project No. 19-332-02
Revision Number <b>1</b>	Drawing Number <b>E2.2</b>	Sheet Order 5 OF 6

FILE NAME AND PATH: C:\PROJ\2019\19-332-FortRouge\Track25-36-Mechanical\Upgrade\3-Civil\Plan\1-Electrical\19-332-E2.2-01.dwg  
LAYOUT: E2.2 DATE PLOTTED: Monday, October 7, 2019 12:22:07 PM

**1** ROOF PLAN - TRACK 25-36 - ELECTRICAL - NEW CONSTRUCTION (GRID LINES A-P)  
SCALE: 1/16" = 1'-0"

**2** ROOF PLAN - TRACK 25-36 - ELECTRICAL - NEW CONSTRUCTION (GRID LINES P-AA)  
SCALE: 1/16" = 1'-0"