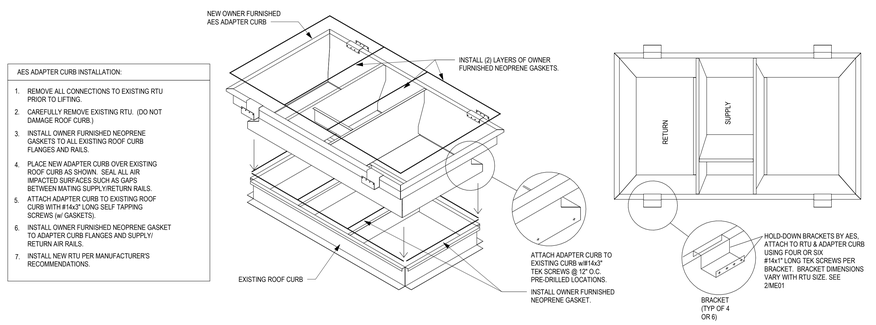
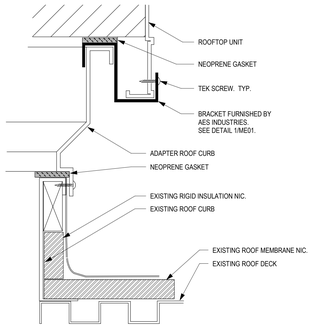


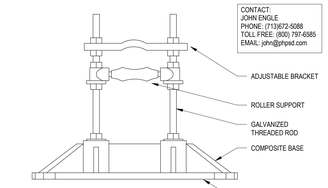
AES ADAPTER CURB INSTALLATION:

1. REMOVE ALL CONNECTIONS TO EXISTING RTU PRIOR TO LIFTING.
2. CAREFULLY REMOVE EXISTING RTU. (DO NOT DAMAGE ROOF CURB.)
3. INSTALL OWNER FURNISHED NEOPRENE GASKETS TO ALL EXISTING ROOF CURB FLANGES AND RAILS.
4. PLACE NEW ADAPTER CURB OVER EXISTING ROOF CURB AS SHOWN. SEAL ALL AIR IMPACTED SURFACES SUCH AS GAPS BETWEEN MATING SUPPLY/RETURN RAILS.
5. ATTACH ADAPTER CURB TO EXISTING ROOF CURB WITH #14x3" LONG SELF TAPPING SCREWS (w/ GASKETS).
6. INSTALL OWNER FURNISHED NEOPRENE GASKET TO ADAPTER CURB FLANGES AND SUPPLY/ RETURN AIR RAILS.
7. INSTALL NEW RTU PER MANUFACTURER'S RECOMMENDATIONS.

1 ME01 RTU ADAPTER CURB INSTALLATION DETAIL (TYPICAL)
NOT TO SCALE



2 ME01 RTU HOLD-DOWN BRACKET INSTALLATION DETAIL
NOT TO SCALE



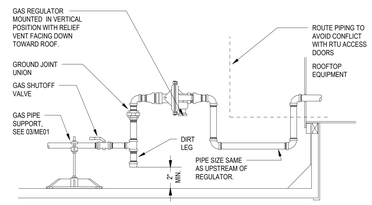
CONTACT:
JOHN ENGLE
PHONE: (713)672-5088
TOLL FREE: (800) 797-6585
EMAIL: john@phpsd.com

INSTALLATION:

FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS ON PROCEDURE TO FASTEN SUPPORT TO ROOF MEMBRANE.

PROVIDE PROPER ROLLER SUPPORT MATERIAL FOR COPPER PIPING TO AVOID CORROSION DUE TO DISSIMILAR METALS.

3 ME01 ROOF-MOUNTED PIPE SUPPORT
NOT TO SCALE



NOTES:
1. REGULATOR PROVIDED BY CONTRACTOR.
2. INSTALL REGULATOR A MINIMUM 4'-0" FROM UNIT EXHAUST FLUE.
3. PROVIDE PIPE TRANSITION IF REGULATOR CONNECTION DIFFERS FROM GAS PIPE SIZE.

4 ME01 GAS CONNECTION FOR ROOF TOP EQUIPMENT
NOT TO SCALE

ROOF CURB ADAPTER FURNISHED BY AES
CONTACT:CHAD BURT
PHONE: (334) 283-3450
EMAIL: CBURT@AESCURB.COM

5 ME01 RTU CURB ADAPTER
NOT TO SCALE

SHEET INDEX

ME01 MECHANICAL - ELECTRICAL SCHEDULES AND DETAILS
ME141 MECHANICAL AND ELECTRICAL PLANS

EOL HVAC EQUIPMENT RESPONSIBILITY MATRIX

EQUIPMENT	SPECIFIED MFR	FURNISH BY	DELIVERY SCHEDULE	INSTALL BY	ELECTRICAL CONNECTION	EQUIPMENT START UP	SMOKE DETECTOR	EMS CABLE	SPACE SENSORS & CABLE	EMS CONTROL HARDWARE	TEST & BALANCING	ALARMS COORDINATION	SYSTEMS Cx	REFRIGERANT ASSET TAGGING	REMOTE CHECKOUT
(N) RTU (ROOFTOP UNIT)	YORK	OWNER	MECH	MECH	ELEC	YORK: MECH ADDISON: MMS	FURNISHED BY: ALARMS INSTALLED BY: ALARMS WIRE TO RTU BY: ELEC TERMINATION @ RTU: MECH TERMINATION @ DETECTOR & F.A PANEL: ALARMS	FURNISHED BY: OWNER'S EMS INSTALLED BY: MECH TERMINATION: MECH	FURNISHED BY: OWNER'S EMS INSTALLED BY: MECH	FACTORY INSTALLED	MECH	MECH	OWNER'S Cx	MECH	MECH
(N) ROOFTOP CURB & CURB ADAPTERS	AES	OWNER	MECH	MECH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

1 MECHANICAL CONTRACTOR SHALL ACT AS PRIME (GENERAL CONTRACTOR) AND SUBCONTRACT TO TRADES NOTED IN MATRIX.
FIRE ALARM SERVICES TO BE SUBCONTRACTED TO TARGET APPROVED FA CONTRACTOR.
TAB SERVICES TO BE SUBCONTRACTED TO TARGET APPROVED CONTRACTOR.

PACKAGED ROOFTOP UNIT SCHEDULE

T0364 Wausau, WI — Gas Pressure = 2.0 psi

Unit No.	Nominal Cooling Cap. (Tons)	Make	Model	Refrigeration Type	Supply: Blower Type	Supply: SA (CFM)	Supply: Minimum OA (CFM)	Supply: ESP (in. WC)	Supply: Fan Motor (BHP)	Supply: SA Fan (RPM)	Cooling Design Conditions: Outdoor Air D.B. (°F)	Cooling Design Conditions: Mixed Air D.B. (°F)	Cooling Design Conditions: Mixed Air W.B. (°F)	Cooling Performance: Total (MBH)	Cooling Performance: Sensible (MBH)	Cooling Performance: Coil LAT D.B. (°F)	Cooling Performance: Coil LAT W.B. (°F)	Cooling Performance: EER / IEER	Cooling Performance: SEER/SEER2	Heating Design: Outdoor Air D.B. (°F)	Heating Design: Mixed Air D.B. (°F)	Heating Performance: Fuel Type	Heating Performance: Heating Input (MBH/KW)	Heating Performance: Heating Output (MBH/KW)	Heating Performance: LAT D.B. (°F)	Heating Performance: Mech Thermal Eff	Electrical Data: Voltage	Electrical Data: MCA	Electrical Data: Max Fuse	Operating Weight	Options
RTU-16 - STOCK	10.0	Carrier	50FEN12	R454B	VFD	4000	200	0.90	2.75	2004	87.6	74.7	61.7	118.4	94.0	51.9	51.4	11.2 / 15.2	-	-12.0	64.0	ELEC	13.8	13.8	77.1	100%	460-3-60	32	35	1031	1-7,-,-,10,--,12,13,14,--,--,--,--
RTU-17 - STOCK	10.0	Carrier	48FEEN12	R454B	VFD	4000	500	0.90	3.01	2061	87.6	75.7	62.5	119.5	96.2	52.4	51.9	11 / 15	-	-12.0	58.0	NG	224	181	103.1	81%	460-3-60	28	30	1135	1-7,-,-,10,--,12,13,14,--,--,--,--

1)2" MERV 8 FILTER, 2)HACR BREAKER, 3)PVC DRAIN TRAP, 4)BACNET CONTROLLER, 5)GFCI FIELD-WIRED, 6)HOLD DOWN CLIPS, 7)ECONOMIZER, 8)BAROMETRIC RELIEF, 9)CONDENSER CORROSION PROTECTION, 10)VFD, 11)CO2 MON REQ , 12)HOT GAS REHEAT, 13)HAIL GUARD, 14)POWER EXHAUST, 15)VAV, 16)OWNER-FURNISHED CURB CAP

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MINNEAPOLIS, MN 55403

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9100 45TH AVE N MINNEAPOLIS, MN 55428
763 367 7600 | NELSONRUDIE-COM
COA#0058-11

WISCONSIN JEFFREY A. PIEHL E-39193 MINNEAPOLIS MN PROFESSIONAL ENGINEER
DATE: 02/05/2025 EXP. DATE: 07/31/2026

Date	No.	Description
02/05/2025		2024 RTU EOL LITE
05/13/2025	1	Rev 1 Carrier

WISCONSIN ERIC NICHOLAS NEBELUNG E-100422 MINNEAPOLIS MN PROFESSIONAL ENGINEER
DATE: 02/05/2025 EXP. DATE: 07/31/2026

TARGET
WAUSAU,WI
2707 SCHOFIELD AVE
SCHOFIELD, WI 54476

Project Number T-0364
Config: LL
Drawn By JSS
Checked By ENN

MECHANICAL - ELECTRICAL SCHEDULES AND DETAILS

ME01

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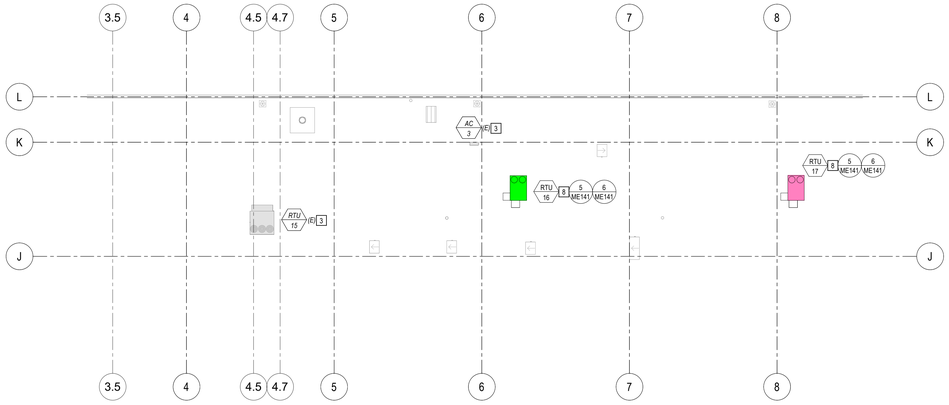
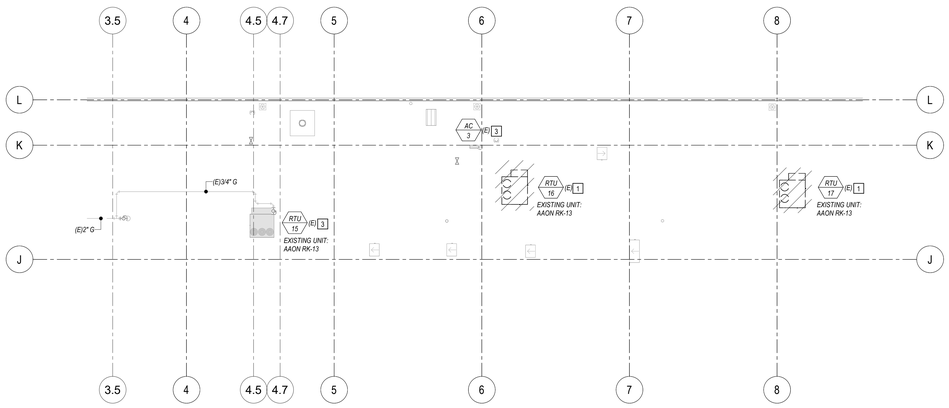
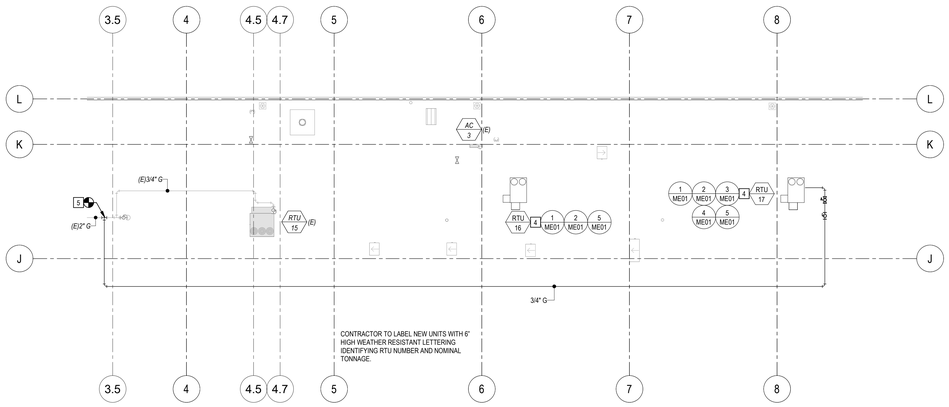


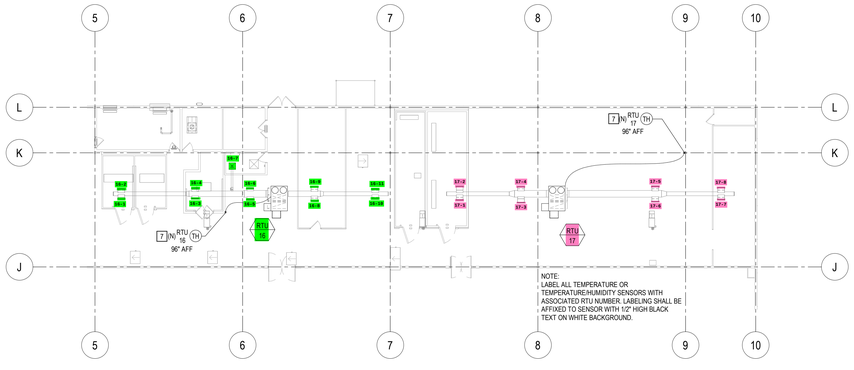
1 ME141 ELECTRICAL ROOF PLAN
SCALE: 1/16" = 1'-0"



2 ME141 MECHANICAL ROOF DEMOLITION PLAN
SCALE: 1/16" = 1'-0"

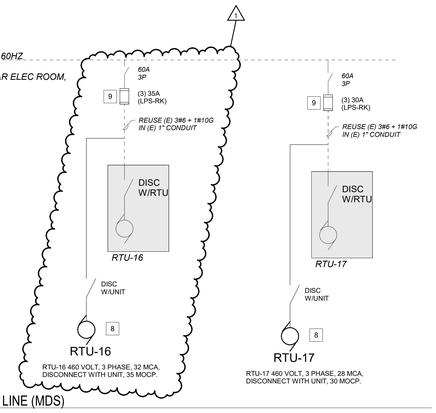


3 ME141 MECHANICAL ROOF PLAN
SCALE: 1/16" = 1'-0"

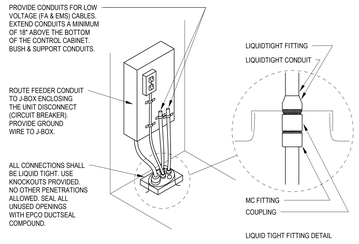


4 ME141 STOCK HVAC CONTROL PLAN
SCALE: 1/16" = 1'-0"

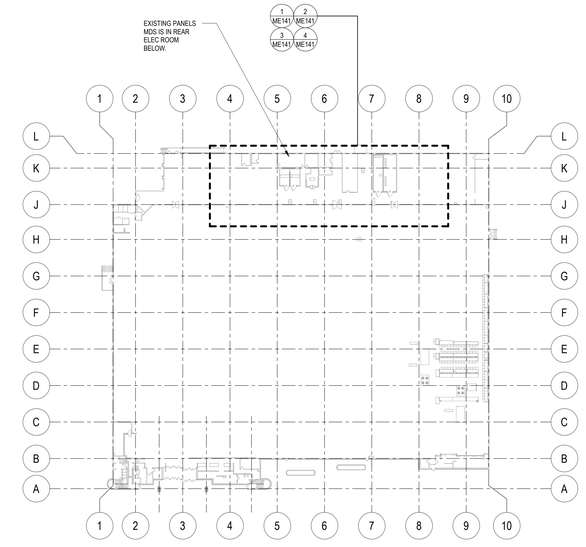
MDS 800A, 480V, 3Ø, 3W,60HZ. BUS W/ GROUND
MDS IS LOCATED IN REAR ELEC ROOM, SEE KEY PLAN.



5 ME141 PARTIAL ONE LINE (MDS)
NOT TO SCALE



6 ME141 RTU WIRING DETAIL
NOT TO SCALE



KEYPLAN

DEMOLITION GENERAL NOTES:

A. ALL EXISTING DUCTWORK AND PIPING INDICATED ON PLAN WAS TAKEN FROM EXISTING MECHANICAL PLANS AND/OR LIMITED FIELD OBSERVATION. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING SYSTEMS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE OSR OF ANY POTENTIAL CONFLICTS.

B. CONTRACTOR SHALL HAVE A THOROUGH KNOWLEDGE OF ALL DRAWINGS, SPECIFICATIONS AND EXISTING CONDITIONS PRIOR TO BID. FAILURE TO ACQUIRE SUCH KNOWLEDGE WILL NOT RELIEVE THE RESPONSIBILITY OF THIS CONTRACTOR FOR PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO THE CONTRACTORS FAILURE TO BECOME FAMILIAR WITH EXISTING CONDITIONS.

C. FIELD VERIFY LOCATIONS AND QUANTITY OF ALL EXISTING EQUIPMENT, FIXTURES AND PIPING NECESSARY TO COMPLETE SCOPE OF WORK.

D. INDICATED TO BE REMOVED - ALL REMOVED EQUIPMENT TO BE DISPOSED OF BY CONTRACTOR UNLESS NOTED AS RELOCATED/RETAINED IN DEMOLITION PLANS AND/OR KEYNOTES.

E. INDICATES EXISTING CONDITIONS.

RTU ;TYP TEXT OF EXISTING CONDITIONS - CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.

F. ARRANGE ALL REQUIRED WORK TO KEEP DISRUPTIONS TO STORE OPERATIONS TO A MINIMUM. COORDINATE ANY DISRUPTIONS WITH CONSTRUCTION MANAGER AND STORE MANAGER.

G. SUBMIT (2) COPIES OF MARKED-UP AS-BUILT UPDATES. ONE COPY TO BE RETAINED AT THE STORE. RETURN SECOND COPY TO BE FORWARDED TO THE PROJECT CONSTRUCTION MANAGER.

H. CONTRACTOR SHALL COORDINATE ALL PHASES OF DEMOLITION.

J. PIPING ABANDONED IN PLACE SHALL BE CAPPED, PLUGGED, AND CONCEALED. PLUGGING AND CAPPING SHALL BE DONE IN A MANNER AS TO ALLOW REOPENING AND REUSE LATER.

K. RECLAIM ALC CONTROL MODULES AND SHIP TO TARGET, PRE-PAID SHIPPING LABELS WILL BE PROVIDED. CONTACT eric.hansen@target.com (612) 696-6878

L. NOT USED.

M. RECLAIM EXTERNAL VFD'S LESS THAN 5 YEARS OLD AND SHIP TO EMC. CONTACT gwen@emccontrols.com (608) 822-3550 EXT. 115

EMS GENERAL NOTES:

A. NEW SENSORS AND WIRE FURNISHED BY EMC, TO BE INSTALLED AND WIRE TERMINATED BY INSTALLING CONTRACTOR.

B. INSTALLING CONTRACTOR TO COORDINATE SCHEDULE AND INFORM EMC OF COMPLETION OF WORK.

ELECTRICAL GENERAL NOTES:

A. NEW UNIT IS EQUIPPED WITH FACTORY INSTALLED DISCONNECT SWITCH.

B. EACH NEW UNIT IS EQUIPPED WITH FACTORY INSTALLED GFCI RECEPTACLE. WHEN DISCONNECTING OLD ROOFTOP UNIT, MAINTAIN EXISTING RTU RECEPTACLE CIRCUIT FOR RE-USE AND RE-CONNECT TO FACTORY INSTALLED RECEPTACLE AS REQUIRED.

EMS NOTES:

NEW UNIT IS EQUIPPED WITH ALL EMS SENSORS, MODULES AND CONTROL AND COMMUNICATION WIRING FURNISHED BY OWNER'S EMS VENDOR, EMC.

INSTALL ALL SENSORS AND MODULES ACCORDING TO EMS VENDOR'S SHOP DRAWINGS.

ALL NEW TEMPERATURE AND HUMIDITY SENSORS SHALL BE LABELED WITH THE PROPER RTU NUMBER.

INSTALL AND TERMINATE ALL EMS CONTROL AND COMMUNICATION WIRING ACCORDING TO EMS VENDOR'S SHOP DRAWINGS.

NEW ZONE TEMPERATURE SENSOR: INSTALL AND TERMINATE CONTROL WIRING ACCORDING TO EMS VENDOR'S SHOP DRAWINGS.

NEW ZONE TEMPERATURE AND HUMIDITY SENSORS: INSTALL AND TERMINATE CONTROL WIRING ACCORDING TO EMS VENDOR'S SHOP DRAWINGS.

DISCONNECT AND REMOVE EXISTING RTU EMS COMMUNICATION LOOP AND ASSOCIATED COMPONENTS ACCORDING TO EMS VENDORS SHOP DRAWINGS.

INSTALL NEW RTU EMS COMMUNICATION LOOP AND ASSOCIATED COMPONENTS ACCORDING TO EMS VENDOR'S SHOP DRAWINGS. INSTALL AND WIRE TWO ALC AAR CONTROLLERS IN EXISTING EMSP PANEL ACCORDING TO EMS SHOP DRAWINGS. PROVIDE ENCLOSURE FOR THE AAR CONTROLLERS IF THERE IS NOT ENOUGH ROOM IN THE EMSP PANEL. INSTALL AND TERMINATE EMS COMMUNICATION WIRING ACCORDING TO EMS SHOP DRAWINGS. SET ADDRESSES AT RTU CONTROL MODULES AND AAR CONTROLLERS ACCORDING TO EMS SHOP DRAWINGS.

ONCE EMS CONTROLS INSTALLATION IS COMPLETE AND WHILE STILL ON SITE CONTACT EMC TECHNICAL SUPPORT (608-822-3550, EXT. 302) FOR REMOTE CHECKOUT OF NEW EMS CONTROLS COMPONENTS AND TO RESOLVE ANY ISSUES FOUND.

KEYNOTES:

1. REMOVE EXISTING ROOFTOP UNIT AND ALL ACCESSORIES, EXCEPT CURB.
2. NOT USED.
3. EXISTING EQUIPMENT TO REMAIN.
4. INSTALL NEW OWNER-FURNISHED ADAPTER CURB ON EXISTING RTU CURB. INSTALL NEW OWNER FURNISHED ROOFTOP UNIT ON ADAPTER CURB.
5. EXTEND EXISTING GAS PIPING AND CONNECT TO NEW ROOFTOP UNIT.
6. NOT USED.
7. NEW TEMPERATURE/RELATIVE HUMIDITY SENSOR FURNISHED BY EMC. CONTRACTOR TO PULL NEW 18-4 WIRE (FURNISHED BY EMC) TO NEW SENSOR. FIELD VERIFY EXACT LOCATION OF EXISTING SENSOR.
8. NEW ROOFTOP UNIT IN EXISTING ROOFTOP UNIT LOCATION. DISCONNECT EXISTING POWER, EXISTING CONDUCTORS AND CONDUIT TO BE RE-USED. MAINTAIN POWER FOR SERVICE RECEPTACLE AND RE-CONNECTION TO NEW UNIT. EXTEND WIRING AS REQUIRED.
9. PROVIDE NEW FUSES IN EXISTING SWITCH.

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763 367 7600 | NELSONRUDIE.COM
COA#0058-11

WISCONSIN
JEFFREY A. PIEHL
E-39193
MINNEAPOLIS
MN
PROFESSIONAL ENGINEER

DATE: 02/05/2025
EXP. DATE: 07/31/2026

Date	No.	Description
02/05/2025		2024 RTU EOL LITE
05/13/2025	1	Rev 1 Carrier

WISCONSIN
ERIC NICHOLAS NEBELUNG
E-10422
MINNEAPOLIS
MN
PROFESSIONAL ENGINEER

DATE: 02/05/2025
EXP. DATE: 07/31/2026

TARGET
WAUSAU, WI
2707 SCHOFIELD AVE
SCHOFIELD, WI 54476

Project Number	T-0364
Config: LL	
Drawn By	JSS
Checked By	ENN

MECHANICAL AND ELECTRICAL PLANS

ME141

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