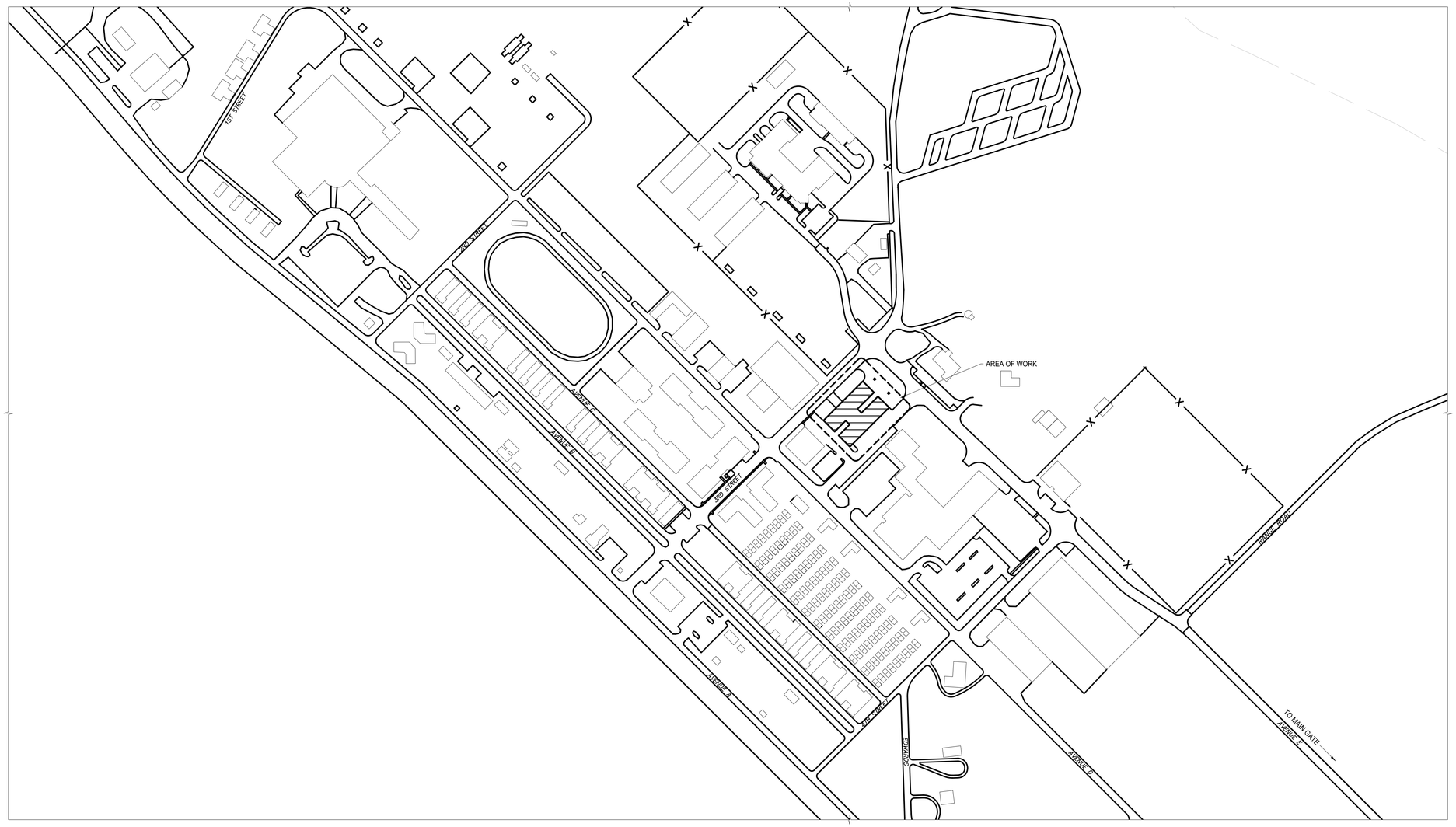
WALK-IN COOLER AND FREEZER REPLACEMENT, BUILDING 6310

Camp Gilbert C. Grafton, Devils Lake, ND
Owner: The Adjutant General, State of ND
NDNG Project NO. 2605

SHEET INDEX



CAMP GILBERT C. GRAFTON SITE PLAN
Scale: NTS

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NDNG Project NO. 2605

ARCHITECT
Shultz + Associates Architects
612 1/2 Main Avenue
Fargo, North Dakota
701.476.0714 p

REFRIGERATION ENGINEER
Nelson-Rudie & Associates
400 Highway 169 S, Suite 500
Minneapolis, Minnesota
763.367.7600 p

ELECTRICAL ENGINEER
MBN Engineering
701 Main Avenue
Fargo, North Dakota
701.478.6336 p

GENERAL NOTES

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed professional Engineer under the laws of the State of North Dakota.

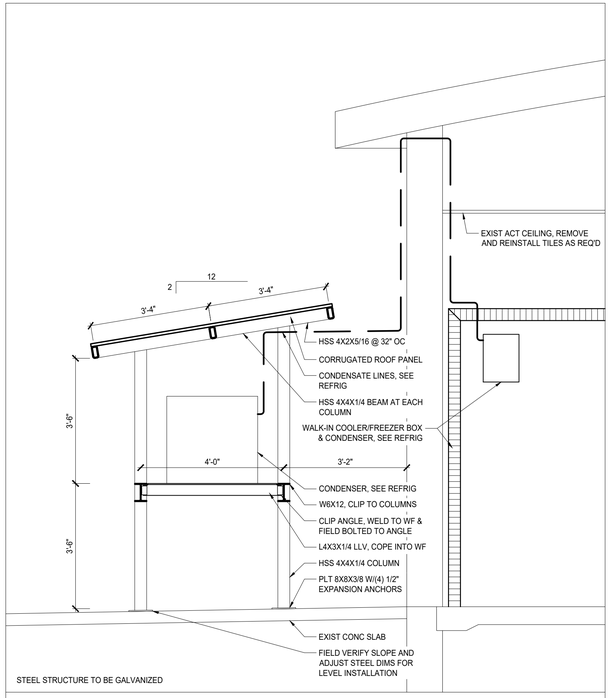
Jared M. Jensen
Date: May 29, 2026 Registration # 2580

SHULTZ + ASSOCIATES
ARCHITECTS

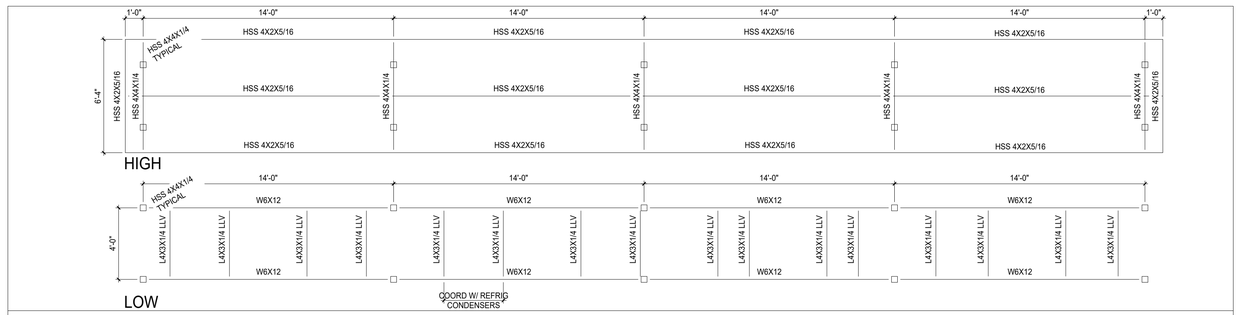
Date
May 29, 2026 2508-2

Drawing Title
SHEET INDEX
SITE PLAN

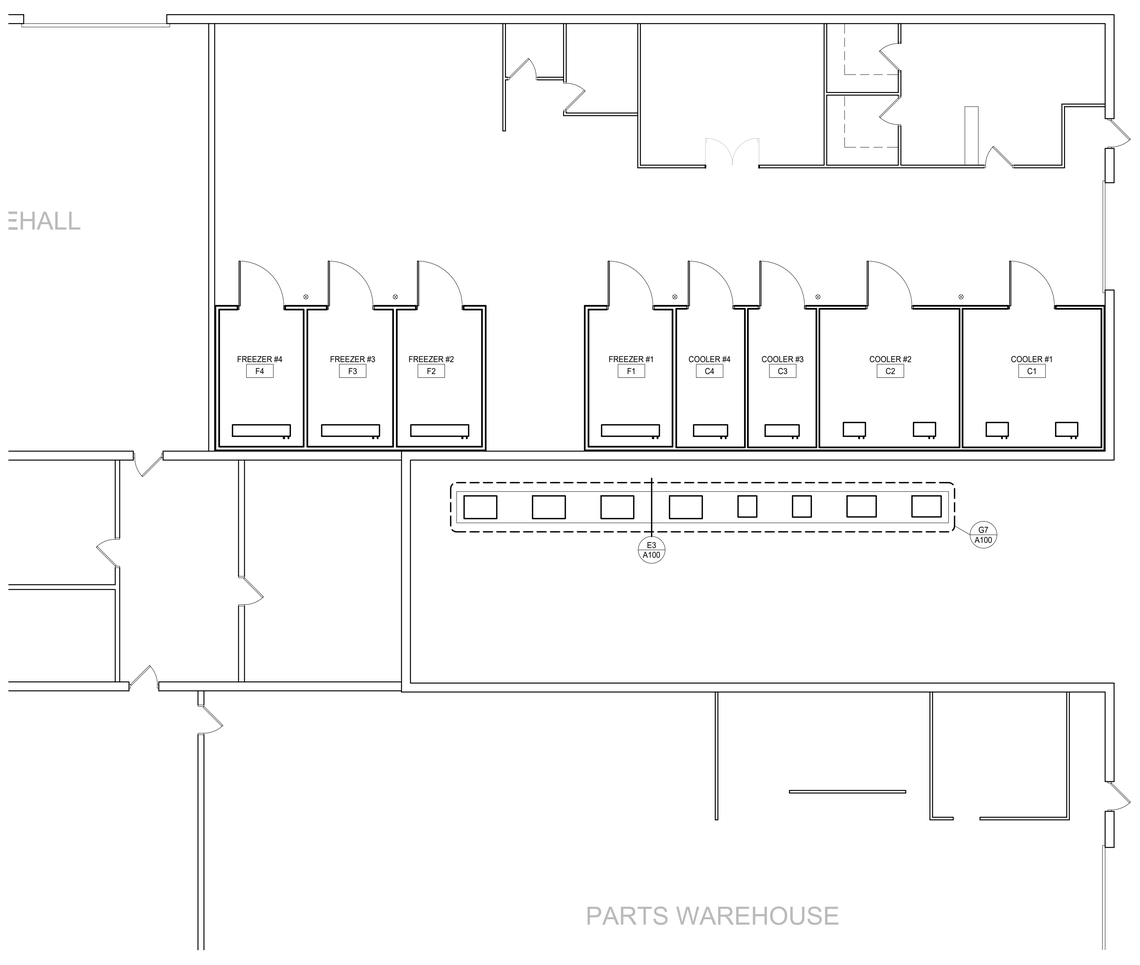
COVER



E3 **SECTION DETAIL**
Scale: 1/2" = 1'-0"



G7 **FRAMING PLAN**
Scale: 1/4" = 1'-0"



MAIN LEVEL PARTIAL FLOOR PLAN
Scale: 1/8" = 1'-0"

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Nelson-Rudie & Associates
400 Highway 169 S, Suite 500
Minneapolis, Minnesota
763.367.7600 p

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MBN Engineering
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Date: May 29, 2026 Registration # 2580

SHULTZ + ASSOCIATES
ARCHITECTS

Date
May 29, 2026 2508-2

Drawing Title
PARTIAL FLOOR PLAN
FRAMING PLAN
DETAILS

A100

SHEET INDEX - REFRIGERATION	
R100	REFRIGERATION DEMOLITION PLAN
R200	REFRIGERATION PLAN
R300	REFRIGERATION CONTROLS PLAN
R400	WALK-IN COOLER & FREEZER PLAN
R500	REFRIGERATION DETAILS AND SCHEDULES

SYMBOLS

X / XXX	DETAIL REFERENCE		CONTROL VALVE
			RELIEF VALVE
X / XXX	SECTION CUT		BALL VALVE
X	KEY NOTES		ANGLE VALVE
	CONNECTION TO EXISTING		GLOBE VALVE
	ELBOW DOWN		BUTTERFLY VALVE
	ELBOW UP		UNION
	TEE DOWN		CHECK VALVE
	TEE UP	T	RETURN TEMPERATURE SENSOR
	CAPPED LINE	H	HUMIDITY SENSOR
	GATE VALVE	D	DEFROST TEMPERATURE SENSOR
	SOLENOID VALVE	AXX	SYSTEM NUMBER
M	ELECTRONIC EVAPORATIVE PRESSURE REGULATING VALVE		FLOOR SINK
			HUB DRAIN

PIPING

——CD——	CONDENSATE DRAIN LINE
——L——	REFRIGERATION LIQUID LINE
——S——	REFRIGERATION SUCTION LINE

GENERAL PROJECT NOTES

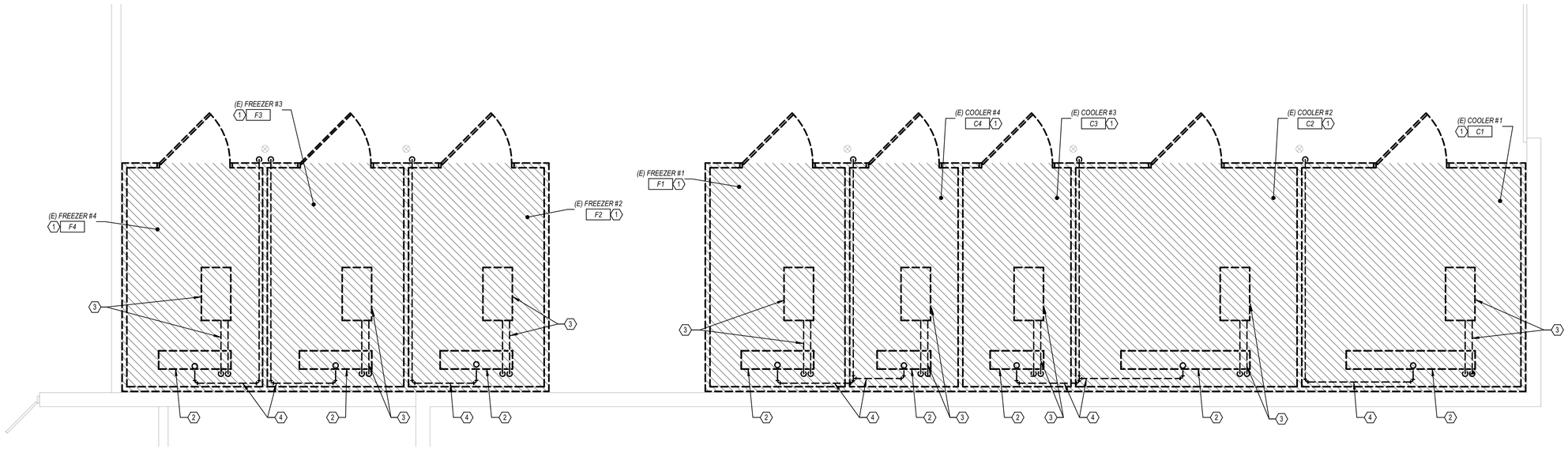
1. ALL MATERIALS, EQUIPMENT AND METHODS OF INSTALLATION USED BY THE REFRIGERATION CONTRACTOR (RC) SHALL BE IN ACCORDANCE WITH THE STANDARDS, REGULATIONS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS AND ALL AUTHORITIES HAVING JURISDICTION (AHJ).
2. RC TO VERIFY AND COORDINATE ALL CRITICAL EQUIPMENT FEATURES AND INTERFACES WITH APPROVED EQUIPMENT MANUFACTURER SUBMITTALS. ALL EQUIPMENT IS TO BE INSTALLED AND OPERATED PER MANUFACTURER INSTRUCTIONS.
3. AT CONCLUSION OF CONSTRUCTION, RC TO TURN OVER TO OWNER AN "AS BUILT" SET OF DRAWINGS IN ACCORDANCE WITH CONTRACT GENERAL REQUIREMENTS AND PROJECT RECORD DOCUMENTS. AS WORK PROGRESSES AND FOR THE DURATION OF CONTRACT, MAINTAIN A COMPLETE SET OF CONTRACT DRAWINGS ON THE JOB SITE AT ALL TIMES.
4. PRIOR TO ACCEPTANCE, THE RC SHALL TEST, BALANCE AND OPERATE THE SYSTEM AND DEMONSTRATE TO THE OWNER (OR OWNER'S REPRESENTATIVE) AND AHJ THAT INSTALLATION AND PERFORMANCE OF THE SYSTEM CONFORM TO APPLICABLE CODES AND MANUFACTURER INSTRUCTIONS.
5. DO NOT SCALE DRAWINGS.
6. VERIFY DIMENSIONS WITH APPROVED FIXTURE PLAN, ARCHITECTURAL PLAN, FIELD CONDITIONS AND CASE MANUFACTURER EQUIPMENT INFORMATION.
7. CONTRACTOR IS RESPONSIBLE FOR HAVING A THROUGH KNOWLEDGE OF ALL DRAWINGS, SPECIFICATIONS AND EXISTING CONDITIONS FOR BIDDING PURPOSES. FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THEIR WORK PROPERLY.

GENERAL NOTES

1. ALL EQUIPMENT AND PIPING SHOWN CROSSHATCHED ARE TO BE DEMOLISHED.
2. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS & SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS.

X KEYNOTES

1. REMOVE EXISTING WALK-IN UNIT AND ALL ACCESSORIES. RETAIN EXISTING TEMPERATURE SENSOR CONNECTED TO BUILDING AUTOMATION SYSTEM FOR INSTALLATION IN NEW WALK-IN. EXISTING FLOOR AND THERMAL BREAK TO BE REUSED.
2. REMOVE EXISTING EVAPORATOR COIL AND ALL ACCESSORIES.
3. REMOVE EXISTING COMPRESSOR/CONDENSER UNIT LOCATED ON TOP OF WALK-IN UNIT. REMOVE ALL ASSOCIATED ACCESSORIES AND REFRIGERATION PIPING.
4. REMOVE EXISTING CONDENSATE PIPING AND ALL ACCESSORIES. EXISTING FLOOR DRAINS TO REMAIN AND BE REUSED.



1 / R100 REFRIGERATION DEMO PLAN

1/4" = 1'-0"

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Fargo, North Dakota
701.476.0714 p

REFRIGERATION ENGINEER

Nelson-Rudie & Associates
400 Highway 169 S, Suite 500
Minneapolis, Minnesota
763.367.7600 p

ELECTRICAL ENGINEER

MBN Engineering
701 Main Avenue
Fargo, North Dakota
701.478.6336 p

GENERAL NOTES

REGISTERED PROFESSIONAL ENGINEER
GREGORY R. LINDBERG
PE-30155
DATE 05/29/2026
NORTH DAKOTA

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NELSON-RUDIE & ASSOCIATES, INC.
400 HIGHWAY 169 SOUTH, SUITE 500
MINNEAPOLIS, MN 55426
763 367 7600 | NELSONRUDIE•COM
Certificate #8748PE

SHULTZ + ASSOCIATES
ARCHITECTS

Date
May 29, 2026 2508-2

Drawing Title
REFRIGERATION DEMOLITION PLAN

R100

MINIMUM PIPE INSULATION THICKNESS TABLE		
FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	NOMINAL PIPE SIZE	
	= < 1"	= > 1-1/8"
> 40°F SUCTION LINES	1/2"	1"
< 40°F SUCTION LINES	1"	1-1/2"
SUBCOOLED LIQUID LINES	1/2"	1/2"
CONDENSATE LINES (INSIDE COOLER/FREEZER)	1/2"	1/2"
CONDENSATE LINES (OUTSIDE COOLER/FREEZER)	1/2"	1/2"

KEYNOTES

1. FURNISH AND INSTALL CONDENSATE PIPING ROUTED AND SECURED TIGHT TO WALL. REFER TO CONDENSATE DRAIN LINE DETAILS 1/R500 AND 2/R500. PROVIDE HEAT SELF REGULATING HEAT TAPE AT 5 WATTS/FOOT ON CONDENSATE PIPING IN FREEZERS. HEAT TAPE CONNECTION TO POWER BY DIVISION 26.
2. ROUTE CONDENSATE PIPING DOWN TO EXISTING HUB DRAIN. INSTALL P-TRAP AT HUB DRAIN. AIR GAP AT DRAIN LINE TERMINATION SHALL BE 1" MINIMUM.
3. INSTALL CONDENSER/COMPRESSOR UNIT ON STAND FURNISHED BY OTHERS. SECURE UNIT TO STAND PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. MAINTAIN MINIMUM SERVICE, ELECTRICAL AND AIRFLOW CLEARANCES BETWEEN UNITS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. ROUTE REFRIGERATION PIPING FROM CONDENSER/COMPRESSOR UNIT TO EVAPORATOR COIL AT WALK-IN UNIT. PROVIDE PIPE SUPPORT AT CONDENSER/COMPRESSOR UNIT STAND. ROUTE PIPING UP EXTERIOR OF BUILDING TO LOCATION OF CORE DRILL PENETRATION. PROVIDE RISER SUPPORTS AT EXTERIOR OF BUILDING.
5. REFRIGERATION CONTRACTOR SHALL CORE DRILL WALL FOR PIPING INSTALLATION. CORE DRILL SHALL BE LOCATED AS CLOSE TO THE UNDERSIDE OF THE EAVE AS POSSIBLE TO PROTECT FROM WEATHER. COORDINATE CORE DRILL LOCATIONS WITH ARCHITECT AND OTHER TRADES PRIOR TO DRILLING. SEAL OPENING WEATHER TIGHT.
6. ROUTE REFRIGERATION PIPING INSIDE BUILDING TIGHT TO WALL SUPPORTING PIPING FROM WALL. EXTEND PIPING FROM WALL DOWN TO TOP OF WALK-IN FOR CONNECTIONS TO SAFETY VALVES.
7. INSTALL SAFETY SOLENOID AND CHECK VALVE ON LIQUID AND SUCTION LINES JUST OUTSIDE WALK-IN BOX IN ACCESSIBLE LOCATION PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. INSTALL EVAPORATOR COIL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SET COIL WITH 1'-3" CLEARANCE FROM BACK WALL TO BACK SIDE OF EVAPORATOR.
9. PROVIDE TRAP FOR FREEZER CONDENSATE IN WALK-IN COOLER PRIOR TO CONNECTION WITH COOLER CONDENSATE.

INSULATION NOTES

1. REFRIGERATION CONTRACTOR AND EQUIPMENT MANUFACTURERS ARE RESPONSIBLE FOR PRODUCING A COMPLETE SYSTEM OF INSULATION WHICH WILL NOT FROST, SWEAT, DRIP OR MOLD.
2. INSULATION SHALL NOT BE INSTALLED OVER BRAZE JOINTS UNTIL FIELD PRESSURE TESTING IS COMPLETE.
3. INSULATION MATERIAL SHALL BE MOISTURE RESISTANT, CLOSED-CELL ELASTOMERIC FOAM INSULATION SHALL BE FREE FROM ASBESTOS MATERIAL.
4. SADDLES, SUCH AS TB CONCEPT INSUGUARD, SHALL BE INSTALLED UNDER INSULATED LINES AT SUPPORTS SUCH AS CLAMPS AND HANGERS TO PREVENT COMPRESSION.
5. INSULATION SHALL BE SEALED WHEN INSTALLED SO AS TO CREATE A MOISTURE BARRIER.
6. INSULATED LINES EXPOSED TO SUNLIGHT OR INSTALLED OUTDOORS SHALL BE PROTECTED WITH PVC JACKETING.
7. ALL REFRIGERATION LINES SUBJECT TO SWEATING UNDER NORMAL OPERATING CONDITIONS (SUCH AS SUCTION LINES AND SUB-COOLED LIQUID LINES) SHALL BE INSULATED.

CONDENSATE DRAIN LINE NOTES

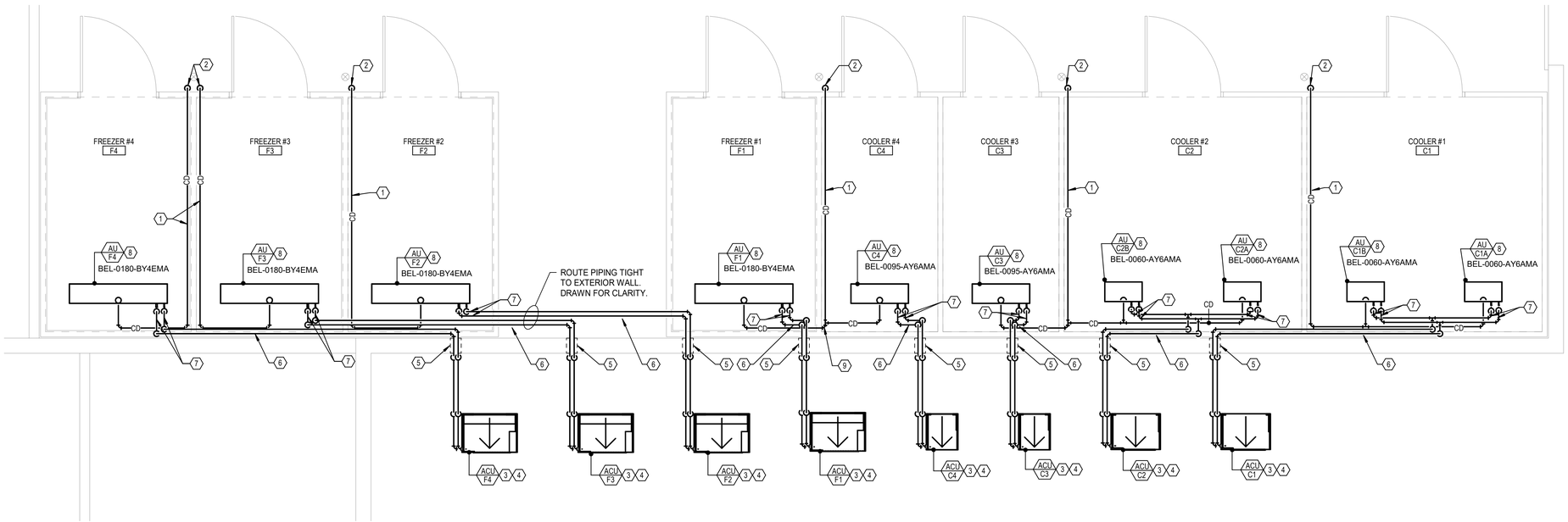
1. RC SHALL FURNISH AND INSTALL ALL CONDENSATE DRAIN LINES WITH APPROVED TRAPS FROM EACH EVAPORATOR TO THE DRAIN UNLESS OTHERWISE SPECIFIED.
2. CONDENSATE DRAIN LINES SHALL BE 3/4" COPPER.
3. CONDENSATE DRAIN LINES SHALL BE INSTALLED WITH 1/2" THICK INSULATION.
4. CONDENSATE DRAIN LINES SHALL SLOPE NOT LESS THAN 1/4" PER FT TOWARDS THE DRAIN.
5. CLEANOUTS SHALL BE PROVIDED AT 90 DEGREE TURNS AND SHALL BE ACCESSIBLY LOCATED.
6. WITHIN SPACES SUCH AS FREEZERS DESIGNED TO OPERATE AT OR BELOW 32 DEGREES F, ALL P-TRAPS SHALL BE LOCATED OUTSIDE OF THE SPACE. HEAT TAPE SHALL BE INSTALLED ON ALL CONDENSATE DRAIN LINES WITHIN THE FREEZER SPACE.

GENERAL NOTES

1. PRESSURE RELIEF DEVICES, FUSIBLE PLUGS AND PURGE SYSTEMS LOCATED WITHIN THE INTERIOR SHALL TERMINATE OUTSIDE OF THE STRUCTURE AT A LOCATION NOT LESS THAN 15 FT ABOVE THE ADJOINING GRADE LEVEL AND NOT LESS THAN 20 FT FROM ANY WINDOW, VENTILATION OPENING OR EXIT. (IMC 1105.7)
2. REFRIGERATION SYSTEM SHALL BE PROVIDED WITH APPROVED EMERGENCY SIGNS, CHARTS AND LABELS IN ACCORDANCE WITH NFPA 704. HAZARD SIGNS SHALL BE IN ACCORDANCE WITH THE IMC. (IFC 608.8)

REFRIGERATION LINE NOTES

1. P-TRAPS SHALL BE INSTALLED AT THE BOTTOM OF RISERS, INVERTED P-TRAPS AT THE TOP OF RISERS, AND INTERMEDIATE S-TRAPS ALONG RISERS TALLER THAN 15 FT.
2. HORIZONTAL LINE RUNS SHALL BE SLOPED NO LESS THAN 1/2" PER 10 FEET IN THE DIRECTION OF THE CONDENSER/COMPRESSOR UNIT.
3. LINES AND EQUIPMENT ARE TO BE INSTALLED TO PREVENT EXCESSIVE STRESSES DUE TO WEIGHT, VIBRATION, AND THERMAL EXPANSION/CONTRACTION.
4. LINE RUNS IN EXCESS OF 75 FT SHALL INCORPORATE A CHANGE IN DIRECTION OR OFFSET OF SUFFICIENT STIFFNESS TO ABSORB THERMAL EXPANSION/CONTRACTION DURING NORMAL OPERATION.
5. REFER TO PIPING DETAILS ON SHEET R500 FOR ADDITIONAL INFORMATION.
6. REFRIGERATION CONTRACTOR SHALL PROVIDE LABELING AND PIPE PROTECTION FOR A2L REFRIGERANT PIPING PER ASHRAE 15 REQUIREMENTS.



1 / R200 REFRIGERATION PLAN

1/4" = 1'-0"

WALK-IN COOLER AND FREEZER REPLACEMENT, BUILDING 6310

Camp Gilbert C. Grafton, Devils Lake, ND
Owner: The Adjutant General, State of ND

NDNG Project NO. 2605

ARCHITECT

Shultz + Associates Architects
612 1/2 Main Avenue
Fargo, North Dakota
701.476.0714 p

REFRIGERATION ENGINEER

Nelson-Rudie & Associates
400 Highway 169 S, Suite 500
Minneapolis, Minnesota
763.367.7600 p

ELECTRICAL ENGINEER

MBN Engineering
701 Main Avenue
Fargo, North Dakota
701.478.6336 p

GENERAL NOTES

REGISTERED PROFESSIONAL ENGINEER
GREGORY R. LINDBERG
PE-30155
DATE 05/29/2026
NORTH DAKOTA

EXP. DATE: 12/31/2026

NELSON-RUDIE & ASSOCIATES, INC.
400 HIGHWAY 169 SOUTH, SUITE 500
MINNEAPOLIS, MN 55426
763 367 7600 | NELSONRUDIE•COM
Certificate #8748PE

SHULTZ + ASSOCIATES
ARCHITECTS

Date
May 29, 2026

2508-2

Drawing Title
REFRIGERATION PLAN

R200

GENERAL NOTES

1. ALL LOW VOLTAGE CONTROL CABLE FURNISHED BY REFRIGERATION CONTRACTOR.

2. LOW VOLTAGE CABLE INSTALLED BY REFRIGERATION CONTRACTOR, TERMINATION CONNECTIONS BY REFRIGERATION CONTRACTOR.

3. ALL WIRING FOR CONTROL SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND LOCAL GOVERNING CODES.

4. ALL PENETRATIONS THROUGH WALK-IN PANELS SHALL BE SEALED PER WALK-IN PANEL MANUFACTURER'S INSTALLATION INSTRUCTIONS.

KEY NOTES

1. EVAPORATOR CONTROLLER FACTORY MOUNTED ON EVAPORATOR COIL.

2. ROUTE 18/2 24V WIRING CONNECTION FROM EVAPORATOR TO ASSOCIATED CONDENSING UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

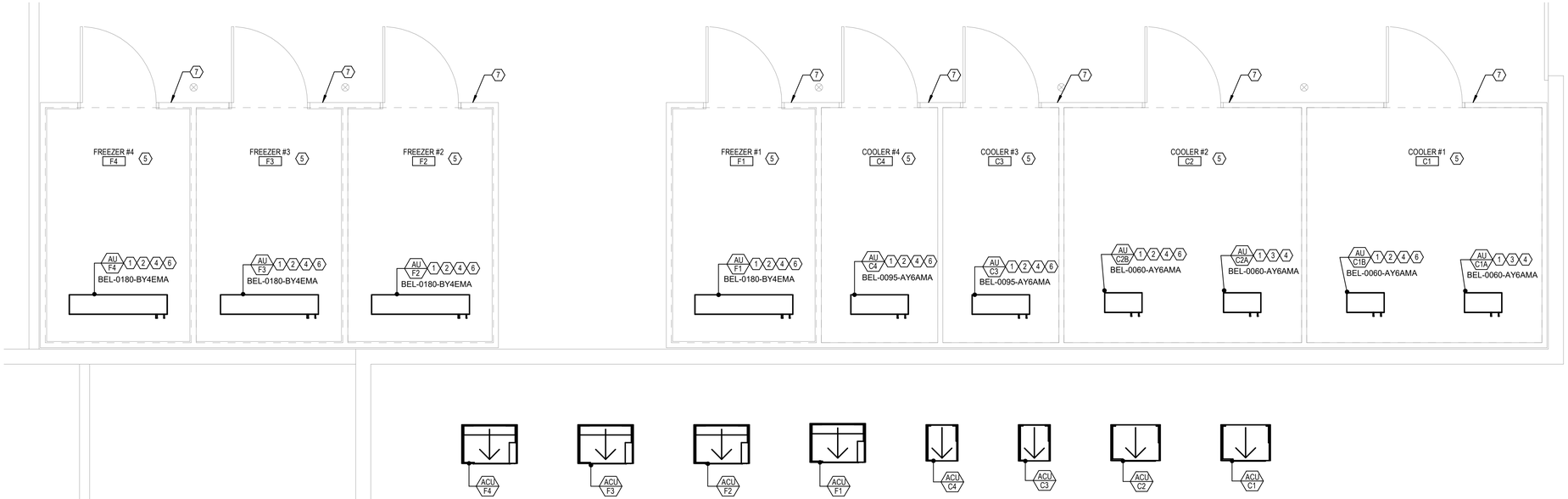
3. ROUTE 24/2 RS-485 SHIELDED WIRING FROM SECONDARY EVAPORATOR TO PRIMARY EVAPORATOR.

4. ROUTE 24/2 RS-485 SHIELDED WIRING FROM REFRIGERANT DETECTION SYSTEM TO CONNECTION ON EVAPORATOR CONTROLLER.

5. INSTALL EXISTING TEMPERATURE SENSOR CONNECTED TO BUILDING AUTOMATION SYSTEM FROM DEMOLISHED WALK-IN UNIT INSIDE OF NEW WALK-IN.

6. CONNECT DRY ALARM CONTACTS ON INTELLIGEN CONTROLLER TO BUILDING AUTOMATION SYSTEM WITH ACCEPTABLE WIRING THAT IS COMPATIBLE WITH BOTH SYSTEMS. COORDINATE CONNECTION LOCATION WITH OWNER.

7. PROVIDE LEAK INDICATOR STACK LIGHT AT INTERIOR AND EXTERIOR OF WALK-IN NEXT TO DOOR. PROVIDE WARNING LABELING AT LEAK INDICATOR. CONNECT WIRING FROM LEAK INDICATOR TO REFRIGERANT DETECTION SYSTEM (RDS) AT EVAPORATOR. INSTALL LEAK INDICATOR PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.



1 / R300 REFRIGERATION CONTROLS PLAN

1/4" = 1'-0"

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400 HIGHWAY 169 SOUTH, SUITE 500
MINNEAPOLIS, MN 55426
763 367 7600 | NELSONRUDIE•COM
Certificate #8748PE

SHULTZ + ASSOCIATES
ARCHITECTS

Date
May 29, 2026

2508-2

Drawing Title
REFRIGERATION CONTROLS PLAN

R300

GENERAL NOTES

1. PROVIDE ALL ACCESSORIES FOR COMPLETE INSTALLATION.

2. COOLER WALLS TO BE 4" THICK MINIMUM.

3. FREEZER PANELS TO BE 5" THICK MINIMUM.

4. THE INTERIOR HEIGHTS OF ALL WALK-INS ARE 7'-11" AFF.

5. WALK-IN PANEL FINISH SHALL BE EMBOSSED GALVANIZED STEEL FOR INTERIOR AND EXTERIOR OF PANELS.

6. WALK-IN BOXES SHALL BE PROVIDED WITH MECHANICAL DIAL THERMOMETERS FACTORY MOUNTED BY PANEL MANUFACTURER.

7. RC SHALL FIELD VERIFY LOCATIONS OF EXISTING THERMAL BREAKS TO VERIFY FINAL WALK-IN PANEL DIMENSIONS PRIOR TO APPROVING PANEL MANUFACTURER'S SHOP DRAWINGS. ALL WALK-IN PANEL DIMENSIONS SHALL BE VERIFIED BASED ON FIELD MEASUREMENTS AND EXISTING CONDITIONS PRIOR TO FABRICATION OF NEW PANELS.

8. PROVIDE FLAT THRESHOLD AT WALK-IN DOOR OPENINGS. FREEZERS SHALL HAVE FLAT THRESHOLD AND DOOR WITH 4-SIDED HEATER.

9. CEILING PANELS TO BE 5" THICK MINIMUM.

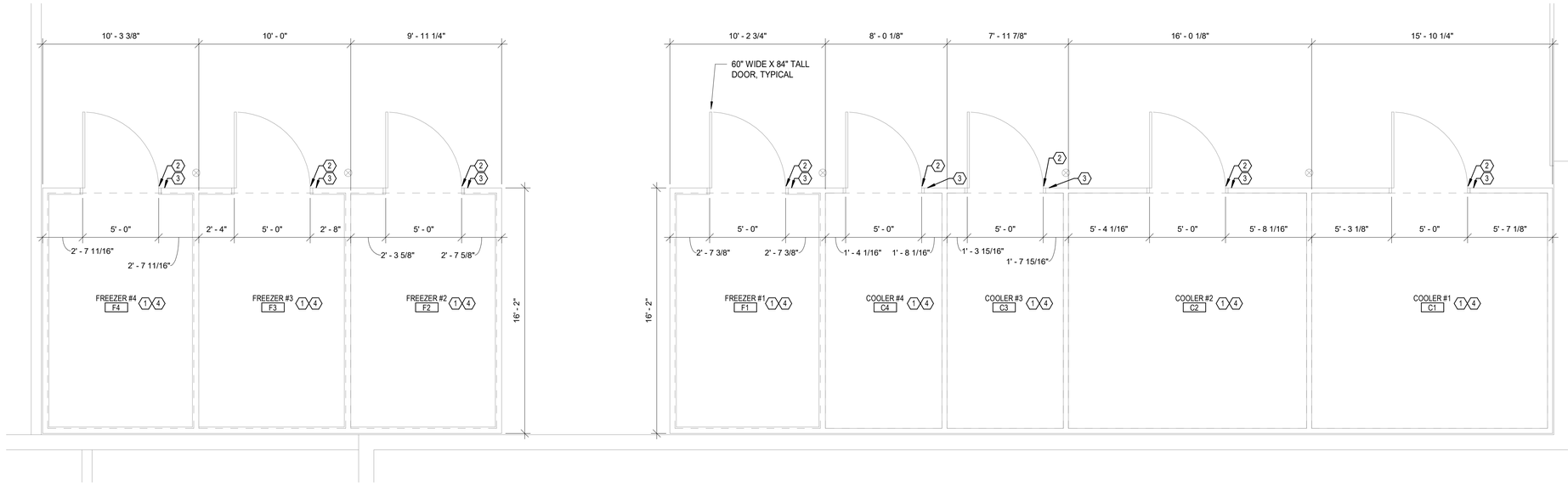
KEYNOTES

1. WALK-IN PANELS TO BE INSTALLED OVER EXISTING THERMAL BREAKS IN FLOOR. VERIFY CONDITION OF EXISTING THERMAL BREAKS AND REPAIR AS REQUIRED FOR USE WITH NEW WALK-IN INSTALLATION. VERIFY EXISTING THERMAL BREAK PLACEMENT COMPLIES WITH WALK-IN PANEL MANUFACTURER'S REQUIREMENTS FOR WALK-IN PANEL INSTALLATION. MODIFY EXISTING THERMAL BREAK AS REQUIRED FOR INSTALLATION WITH NEW WALK-IN PANELS. REFER TO DETAIL 4/R500 FOR TYPICAL PANEL MANUFACTURER'S THERMAL BREAK REQUIREMENTS.

2. WALK-IN FREEZER PANEL MANUFACTURER TO PROVIDE DOOR HEAT AND HEATED VENT FACTORY WIRED TO JUNCTION BOX.

3. WALK-IN PANEL MANUFACTURER TO PROVIDE FACTORY MOUNTED LIGHT SWITCH.

4. WALK-IN PANEL SHALL BE ABLE TO SPAN FULL WIDTH OF WALK-IN WITHOUT ADDITIONAL INTERIOR OR EXTERIOR CEILING SUPPORTS.



1 / R400 WALK-IN COOLER AND FREEZER PLAN

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NELSON-RUDIE & ASSOCIATES, INC.
400 HIGHWAY 169 SOUTH, SUITE 500
MINNEAPOLIS, MN 55426
763 367 7600 | NELSONRUDIE•COM
Certificate #8749PE

SHULTZ + ASSOCIATES
ARCHITECTS

Date
May 29, 2026

2508-2

Drawing Title
WALK-IN COOLER & FREEZER PLAN

R400

Camp Grafton Bldg 6310
Date: 2026-05-29

REFRIGERATION WALK-IN COOLER/FREEZER SCHEDULE

SYSTEM NOMENCLATURE	SYSTEM DATA				WALK-IN EVAPORATOR COILS									DEFROST			ELECTRICAL DATA			Options
DRAWINGS NAME	USE	APPROXIMATE SIZE	LOAD (BTUH)	BOX TEMP (°F)	QTY.	MANUF.	MODEL	EVAP TEMP (°F)	CAPACITY (BTUH)	TD (°F)	CAPACITY (BTUH / 1°F)	FIN DENSITY (#/IN)	DIMENSION (LxWxH) (INCHES)	APPX. WEIGHT EACH (LBS)	TYPE	QUANT. & DURATION	CONTROL	FAN LOAD (TOTAL)	ELECT. DEFROST (EACH)	ELECT. DEFROST (TOTAL)	
AU-F1	FREEZER #1 (F1)	10' x 16' x 7'-11"H	13915	-15	1	BOHN	BEL0180BY4EMA	-25.22	14211	10.22	1391	4	77.5" x 15.375" x 16.44"	100	ELEC	ON DEMAND	intelliGen iRC w/EEV	2 AMP (208-230V/1)	18.3 AMP (230V/1)	18.3 AMP (230V/1)	1, 2, 7
AU-F2	FREEZER #2 (F2)	10' x 16' x 7'-11"H	13915	-15	1	BOHN	BEL0180BY4EMA	-25.22	14211	10.22	1391	4	77.5" x 15.375" x 16.44"	100	ELEC	ON DEMAND	intelliGen iRC w/EEV	2 AMP (208-230V/1)	18.3 AMP (230V/1)	18.3 AMP (230V/1)	1, 2, 7
AU-F3	FREEZER #3 (F3)	10' x 16' x 7'-11"H	13915	-15	1	BOHN	BEL0180BY4EMA	-25.22	14211	10.22	1391	4	77.5" x 15.375" x 16.44"	100	ELEC	ON DEMAND	intelliGen iRC w/EEV	2 AMP (208-230V/1)	18.3 AMP (230V/1)	18.3 AMP (230V/1)	1, 2, 7
AU-F4	FREEZER #4 (F4)	10' x 16' x 7'-11"H	13915	-15	1	BOHN	BEL0180BY4EMA	-25.22	14211	10.22	1391	4	77.5" x 15.375" x 16.44"	100	ELEC	ON DEMAND	intelliGen iRC w/EEV	2 AMP (208-230V/1)	18.3 AMP (230V/1)	18.3 AMP (230V/1)	1, 2, 7
AU-C1A AU-C1B	COOLER #1 (C1)	16' x 16' x 7'-11"H	13769	35	2	BOHN	BEL0060AY6AMA	20.99	7471 (EACH) 14942 (TOTAL)	10.01	746	6	29.5" x 15.375" x 16.44"	36	AIR	ON DEMAND	intelliGen iRC w/EEV	1.8 AMP (115V/1)	--	--	1, 2
AU-C2A AU-C2B	COOLER #2 (C2)	16' x 16' x 7'-11"H	13769	35	2	BOHN	BEL0060AY6AMA	20.99	7471 (EACH) 14942 (TOTAL)	10.01	746	6	29.5" x 15.375" x 16.44"	36	AIR	ON DEMAND	intelliGen iRC w/EEV	1.8 AMP (115V/1)	--	--	1, 2
AU-C3	COOLER #3 (C3)	8' x 16' x 7'-11"H	9383	35	1	BOHN	BEL0095AY6AMA	20.26	9552	10.74	889	6	45.5" x 15.375" x 16.44"	56	AIR	ON DEMAND	intelliGen iRC w/EEV	1.8 AMP (115V/1)	--	--	1, 2
AU-C4	COOLER #4 (C4)	8' x 16' x 7'-11"H	9383	35	1	BOHN	BEL0095AY6AMA	20.26	9552	10.74	889	6	45.5" x 15.375" x 16.44"	56	AIR	ON DEMAND	intelliGen iRC w/EEV	1.8 AMP (115V/1)	--	--	1, 2

AIR-COOLED CONDENSING UNIT SCHEDULE

CONDENSING UNIT DRAWINGS NAME	CIRCUIT(S)	MANUF/TYPE	MODEL	COMP. MODEL	REFRIG.	REFRIG CLASS	COMP. HP	AMBIENT TEMP. (°F)	CAPACITY (BTUH)	SUCTION TEMP. (°F)	CONNECTIONS		ELECTRICAL DATA					RECEIVER CAPACITY AT 90% FULL (LBS)	SOUND (DBA)	APPX. WEIGHT (LBS)	DIMENSIONS LxWxH	Options
											SUCTION (IN)	LIQUID (IN)	VOLT.	COMP. RLA	COND. FAN FLA	TOTAL MCA	TOTAL MOPD					
ACU-F1	AU-F1	COPELAND SCROLL	BCH0055LBACY	YF13KAE	R454A	A2L	5.5	95	14580	-27.15	7/8	1/2	208-230V/1PH/60Hz	24.7	3.5	34.3	50.0	20	64	323	43.875" x 30.5" x 29.25"	3, 4, 5, 6
ACU-F2	AU-F2	COPELAND SCROLL	BCH0055LCACY	YF13KAE	R454A	A2L	5.5	95	14580	-27.15	7/8	1/2	208-230V/3PH/60Hz	17	3.5	24.7	40.0	20	64	323	43.875" x 30.5" x 29.25"	3, 4, 5, 6
ACU-F3	AU-F3	COPELAND SCROLL	BCH0055LCACY	YF13KAE	R454A	A2L	5.5	95	14580	-27.15	7/8	1/2	208-230V/3PH/60Hz	17	3.5	24.7	40.0	20	64	323	43.875" x 30.5" x 29.25"	3, 4, 5, 6
ACU-F4	AU-F4	COPELAND SCROLL	BCH0055LCACY	YF13KAE	R454A	A2L	5.5	95	14580	-27.15	7/8	1/2	208-230V/3PH/60Hz	17	3.5	24.7	40.0	20	64	323	43.875" x 30.5" x 29.25"	3, 4, 5, 6
ACU-C1	AU-C1A AU-C1B	COPELAND SCROLL	BCH0015MBACY	YS12KAE	R454A	A2L	1.5	95	14957	22.99	7/8	1/2	208-230V/1PH/60Hz	10.8	1.0	15.0	25.0	14	63	221	39.125" x 28.25" x 19.75"	3, 4, 5, 6
ACU-C2	AU-C2A AU-C2B	COPELAND SCROLL	BCH0015MBACY	YS12KAE	R454A	A2L	1.5	95	14957	22.99	7/8	1/2	208-230V/1PH/60Hz	10.8	1.0	15.0	25.0	14	63	221	39.125" x 28.25" x 19.75"	3, 4, 5, 6
ACU-C3	AU-C3	COPELAND SCROLL	BCH0010MBACY	YS09KAE	R454A	A2L	1.0	95	10259	22.26	5/8	3/8	208-230V/1PH/60Hz	9	0.5	15.0	20.0	9	61	179	25.125" x 28.5" x 19.75"	3, 4, 5, 6
ACU-C4	AU-C4	COPELAND SCROLL	BCH0010MBACY	YS09KAE	R454A	A2L	1.0	95	10259	22.26	5/8	3/8	208-230V/1PH/60Hz	9	0.5	15.0	20.0	9	61	179	25.125" x 28.5" x 19.75"	3, 4, 5, 6

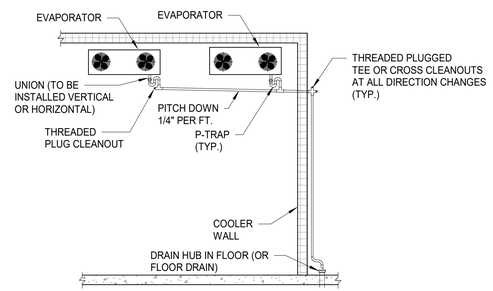
Options:
1. Shipped loose safety solenoid and safety check valve
2. Factory mounted refrigerant detection system
3. Factory installed hail guard
4. Receiver low ambient kit
5. Crankcase heater
6. Extended 5 year compressor warranty
7. Insulated drain pan

SYSTEM INFORMATION				LIQUID LINE SIZING				SUCTION LINE SIZING						
CIRCUIT	LOAD	EVAP TEMP	LIQUID TEMP	TOTAL EQUIV. LINE LENGTH	LIQUID LINE SIZE O.D.	LIQUID LINE VELOCITY	LIQUID LINE PRESS DROP	TOTAL EQUIV. LINE LENGTH	SUCTION LINE SIZE O.D.	SUCTION LINE VELOCITY	SUCTION LINE PRESS DROP	SUCTION RISER A LINE SIZE O.D.	SUCTION RISER B LINE SIZE O.D.	SUCTION RISER A LINE VELOCITY	SUCTION RISER B LINE VELOCITY
	BTUH	°F	°F	FT	IN	FT/MIN	PSID	FT	IN	FT/MIN	PSID	IN	IN	FT/MIN	FT/MIN
F1	14,580	-27	110	69	1/2	77	4.09	60	1 1/8	1,940	0.53	1 1/8		1,940	
F2	14,580	-27	110	67	1/2	77	4.07	58	1 1/8	1,940	0.52	1 1/8		1,940	
F3	14,580	-27	110	64	1/2	77	4.05	55	1 1/8	1,940	0.49	1 1/8		1,940	
F4	14,580	-27	110	51	1/2	77	3.97	42	1 1/8	1,940	0.37	1 1/8		1,940	
C1	14,957	23	110	54	1/2	70	3.94	45	7/8	1,068	0.45	5/8		2,216	
C1A	7,478	23	110	32	3/8	65	1.03	30	5/8	1,108	0.50	1/2		1,780	
C1B	7,478	23	110	32	3/8	65	1.03	30	5/8	1,108	0.50	1/2		1,780	
C2	14,957	23	110	63	1/2	70	3.98	54	7/8	1,068	0.54	5/8		2,216	
C2A	7,478	23	110	32	3/8	65	1.03	30	5/8	1,108	0.50	1/2		1,780	
C2B	7,478	23	110	32	3/8	65	1.03	30	5/8	1,108	0.50	1/2		1,780	
C3	10,259	22	110	51	3/8	89	4.27	42	5/8	1,552	1.27	5/8		1,552	
C4	10,259	22	110	50	3/8	89	4.26	41	5/8	1,552	1.24	5/8		1,552	

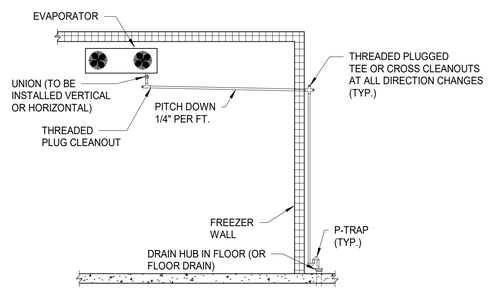
REFRIGERATION SYSTEM CHARGE COMPLIANCE TABLE (2024 ASHRAE-15)

SYSTEM NUMBER	DESCRIPTION	OCCUPANCY CLASSIFICATION	FLOOR AREA (SQFT)	CEILING HEIGHT (FT)	EFFECTIVE DISPERSAL VOLUME, EDV (CUFT)	REFRIG.	SAFETY GROUP	RCL (LB/MCF)	LFL (LB/MCF)	RELEASE MITIGATION CONTROLS INSTALLED	SPACE WITH AIR CIRCULATION	MAX. EFFECTIVE DISPERSAL VOLUME CHARGE, EDVC (LBS)	RELEASABLE REFRIGERANT CHARGE, MREL (LBS)	COMPLIANCE RESULT
F1	WALK-IN FREEZER	INDUSTRIAL	150	8.0	1,200	R-454A	A2L	4.4	17.5	YES	NO	8.34	3.49	SYSTEM CHARGE COMPLIES (NOTE 1)
F2	WALK-IN FREEZER	INDUSTRIAL	150	8.0	1,200	R-454A	A2L	4.4	17.5	YES	NO	8.34	3.49	SYSTEM CHARGE COMPLIES (NOTE 1)
F3	WALK-IN FREEZER	INDUSTRIAL	150	8.0	1,200	R-454A	A2L	4.4	17.5	YES	NO	8.34	3.49	SYSTEM CHARGE COMPLIES (NOTE 1)
F4	WALK-IN FREEZER	INDUSTRIAL	150	8.0	1,200	R-454A	A2L	4.4	17.5	YES	NO	8.34	3.49	SYSTEM CHARGE COMPLIES (NOTE 1)
C1	WALK-IN COOLER	INDUSTRIAL	242	8.0	1,936	R-454A	A2L	4.4	17.5	YES	NO	10.22	2.89	SYSTEM CHARGE COMPLIES (NOTE 1)
C2	WALK-IN COOLER	INDUSTRIAL	242	8.0	1,936	R-454A	A2L	4.4	17.5	YES	NO	10.22	2.89	SYSTEM CHARGE COMPLIES (NOTE 1)
C3	WALK-IN COOLER	INDUSTRIAL	119	8.0	952	R-454A	A2L	4.4	17.5	YES	NO	6.99	1.69	SYSTEM CHARGE COMPLIES (NOTE 1)
C4	WALK-IN COOLER	INDUSTRIAL	119	8.0	952	R-454A	A2L	4.4	17.5	YES	NO	6.99	1.69	SYSTEM CHARGE COMPLIES (NOTE 1)

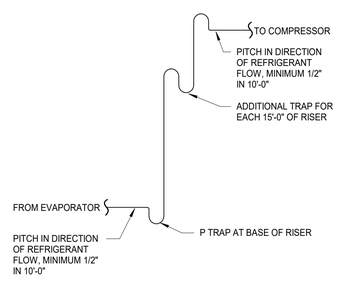
NOTES:
1) THE SYSTEM CHARGE COMPLIES BECAUSE THE RELEASABLE REFRIGERANT CHARGE IS LESS THAN THE MAXIMUM EFFECTIVE DISPERSAL VOLUME CHARGE AND IS LESS THAN 9.2*LFL.



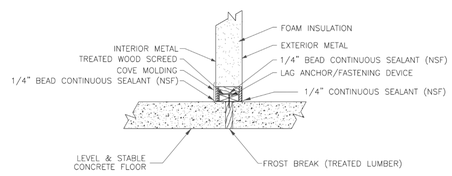
1 R500 EVAP CONDENSATE DRAIN CONN DETAIL (COOLER)
NOT TO SCALE



2 R500 EVAP CONDENSATE DRAIN CONN DETAIL (FREEZER)
NOT TO SCALE



3 R500 SUCTION LINE RISER PIPING
NOT TO SCALE



4 R500 TYPICAL THERMAL BREAK DETAIL (FOR REFERENCE ONLY)
NOT TO SCALE

WALK-IN COOLER AND FREEZER REPLACEMENT, BUILDING 6310

Camp Gilbert C. Grafton, Devils Lake, ND
Owner: The Adjutant General, State of ND

NDNG Project NO. 2605

ARCHITECT

Shultz + Associates Architects
612 1/2 Main Avenue
Fargo, North Dakota
701.476.0714 p

REFRIGERATION ENGINEER

Nelson-Rudie & Associates
400 Highway 169 S, Suite 500
Minneapolis, Minnesota
763.367.7600 p

ELECTRICAL ENGINEER

MBN Engineering
701 Main Avenue
Fargo, North Dakota
701.478.6336 p

GENERAL NOTES

REGISTERED PROFESSIONAL ENGINEER
GREGORY R. LINDBERG
PE-30155
DATE 05/29/2026
NORTH DAKOTA
EXP. DATE: 12/31/2026

NELSON-RUDIE & ASSOCIATES, INC.
400 HIGHWAY 169 SOUTH, SUITE 500
MINNEAPOLIS, MN 55426
763 367 7600 | NELSONRUDIE•COM
Certificate #874PE

SHULTZ + ASSOCIATES
ARCHITECTS

Date
May 29, 2026 2508-2

Drawing Title
REFRIGERATION DETAILS AND SCHEDULES

R500

ELECTRICAL SYMBOLS LEGEND

MOUNTING HEIGHT	SYMBOLS	DESCRIPTION
		DISCONNECT, 'F' INDICATES FUSED
		HASH MARKS INDICATE ITEM NOTED TO BE REMOVED
		MOTOR, SEE PLANS AND SCHEDULES FOR DESCRIPTION
		SURFACE MOUNTED PANELBOARD
		RECESSED IN WALL PANELBOARD
18"		DUPLEX RECEPTACLE
	1	DEMOLITION NOTE
	1	ELECTRICAL NOTE
	1	MECHANICAL IDENTIFICATION NOTE
		DASHED LINES INDICATE EXISTING FIXTURES, DEVICES, OR EQUIPMENT
		SURFACE MOUNTED LIGHT FIXTURE
		CONDUIT/CIRCUIT CONTINUATION
	AC	ABOVE COUNTER
	G	GROUND FAULT CIRCUIT INTERRUPTER
	WP	WEATHERPROOF
	L1-2,4,6 #10	HOME RUN TO PANELBOARD, QUANTITY OF CONDUCTORS REQUIRED NOT INDICATED, PROVIDE QUANTITY AS REQUIRED FOR CIRCUIT NUMBERS SHOWN, SWITCHING ARRANGEMENT, OR NUMBER OF HOME RUNS SHOWN. '#10' INDICATES WIRE SIZE, NO NUMBERS INDICATES #12, 3/4 INCH CONDUIT MINIMUM.

REFRIGERATION EQUIPMENT SCHEDULE

MOTOR NO	DESCRIPTION OF MOTOR OR EQUIPMENT	LOCATION (ROOM NO)	LOAD IN HORSEPOWER (HP) OR FULL LOAD AMPS (FLA)	VOLTAGE, PHASE	PANEL AND CIRCUIT NUMBER OR MCC NUMBER	CONDUCTOR SIZE AND QUANTITY	GROUND CONDUCTOR SIZE	CONDUIT SIZE	DISCONNECT			
									DISCONNECT SIZE	FUSIBLE / NON FUSIBLE	NEMA RATING	DISCONNECT BY (DIV. NO.)
1	FREEZER EVAPORATOR AU-F1	SEE DWG	18.3 FLA	240,1	B-43,45	2 #10	#10	1/2"	30A	NF	1	26
2	FREEZER EVAPORATOR AU-F2	SEE DWG	18.3 FLA	240,1	A-29,31	2 #10	#10	1/2"	30A	NF	1	26
3	FREEZER EVAPORATOR AU-F3	SEE DWG	18.3 FLA	240,1	A-12,14	2 #10	#10	1/2"	30A	NF	1	26
4	FREEZER EVAPORATOR AU-F4	SEE DWG	18.3 FLA	240,1	A-11,13	2 #10	#10	1/2"	30A	NF	1	26
5	COOLER EVAPORATOR ACU-C1A	SEE DWG	1.8 FLA	120, 1	B-23	2 #12	#12	1/2"	20A	NF	1	26
6	COOLER EVAPORATOR ACU-C1B	SEE DWG	1.8 FLA	120, 1	B-23	2 #12	#12	1/2"	20A	NF	1	26
7	COOLER EVAPORATOR ACU-C2A	SEE DWG	1.8 FLA	120, 1	B-5	2 #12	#12	1/2"	20A	NF	1	26
8	COOLER EVAPORATOR ACU-C2B	SEE DWG	1.8 FLA	120, 1	B-8	2 #12	#12	1/2"	20A	NF	1	26
9	COOLER EVAPORATOR ACU-C3	SEE DWG	1.8 FLA	120, 1	B-28	2 #12	#12	1/2"	20A	NF	1	26
10	COOLER EVAPORATOR ACU-C4	SEE DWG	1.8 FLA	120, 1	B-40	2 #12	#12	1/2"	20A	NF	1	26
11	FREEZER CONDENSING UNIT ACU-F1	EXTERIOR	34 MCA	240, 1	B-1,3	2 #8	#10	3/4"	60A	NF	3R	26
12	FREEZER CONDENSING UNIT ACU-F2	EXTERIOR	24.7 MCA	240, 3	A-19,21,23	3 #10	#10	3/4"	30A	NF	3R	26
13	FREEZER CONDENSING UNIT ACU-F3	EXTERIOR	24.7 MCA	240, 3	A-2,4,6	3 #10	#10	3/4"	30A	NF	3R	26
14	FREEZER CONDENSING UNIT ACU-F4	EXTERIOR	24.7 MCA	240, 3	A-1,3,5	3 #10	#10	1/2"	30A	NF	3R	26
15	COOLER CONDENSING UNIT ACU-C1	EXTERIOR	15 MCA	240, 1	B-25,27	2 #12	#12	1/2"	30A	NF	3R	26
16	COOLER CONDENSING UNIT ACU-C2	EXTERIOR	15 MCA	240, 1	B-19,21	2 #12	#12	1/2"	30A	NF	3R	26
17	COOLER CONDENSING UNIT ACU-C3	EXTERIOR	15 MCA	240, 1	B-13,15	2 #12	#12	1/2"	30A	NF	3R	26
18	COOLER CONDENSING UNIT ACU-C4	EXTERIOR	15 MCA	240, 1	B-7,9	2 #12	#12	1/2"	30A	NF	3R	26

PANELBOARD LOAD SCHEDULE

PANEL: PANEL A **MAIN:** MCB 200A **ENCLOSURE:** NEMA 1 **LOCATION:** 6310
VOLTS: 240/120, 3 PH., 4W.
RATING: 225 AMP **AIC RATING:** 10,000 **MOUNTING:** SURFACE **FED FROM:** UTILITY

CKT #	TRIP AMPS	POLE	LOAD IN VOLT-AMPERES					LOAD DESCRIPTION	PH	LOAD DESCRIPTION	LOAD IN VOLT-AMPERES					TRIP AMPS	POLE	CKT #
			LIGHTING	RECPT	MTRS&EQUIP	KITCHEN	HEAT/AC				HEAT/AC	KITCHEN	MTRS&EQUIP	RECPT	LIGHTING			
1	40					2740		FREEZER 4	A	FREEZER3		2740				40		2
3						2740		CONDENSING UNIT	B	CONDENSING UNIT		2740						4
5		3				2740			C			2740					3	6
7	20	1				1800		XST UH-5	A	WALK IN LIGHTING					440	20	1	8
9								HIGH LEG SPACE	B	HIGH LEG SPACE								10
11	30					4300		FREEZER 4 EVAP	C	FREEZER 3 EVAP		4300				30		12
13		2							A								2	14
15								HIGH LEG SPACE	B	HIGH LEG SPACE								16
17	20	1						FREEZER 4 LIGHTS	C	XST UH-5			1800			20	1	18
19	40					2740		FREEZER 2	A	XST UH-4			1800			20	1	20
21						2740		CONDENSING UNIT	B	SPACE								22
23		3				2740			C	XST UH-4			1800			20	1	24
25	20	1					1500	FREEZER HEAT	A	XST OUTDOOR AC UNIT			2400			25		26
27								HIGH LEG SPACE	B				2400					28
29	30					4300		FREEZER 2 EVAP	C				2400				3	30
31		2							A	XST INDOOR AC UNIT			8640			90		32
33								HIGH LEG SPACE	B				8640					34
35	20	1						XST ACC COOLANT HTR	C				8640				3	36
37	20	1					1500	FREEZER HEAT	A	XST FORK LIFT CHARGER			1920			20		38
39								HIGH LEG SPACE	B				1920					40
41	20	1					1500	FREEZER HEAT	C				1920				3	42

LOAD CALCULATIONS

LOAD TYPE	VA / PHASE A	VA / PHASE B	VA / PHASE C	TOTAL VA	DEMAND FACTOR	DIVERSIFIED LOAD
LIGHTING	440	0	0	440	1.00	440
RECEPTACLES	0	0	0	0	0.50	0
MOTORS & EQUIP	14760	12960	16560	44280	0.90	39852
KITCHEN EQUIP.	10020	8220	21120	39360	0.65	25584
HEAT / AC	3000	0	1500	4500	0.90	4050
LARGEST MOTOR					0.25	0
TOTAL AMPS: 168				TOTAL VA:		69,926

NOTES:

1. BREAKERS NOTED WITH * TO BE GFCI BREAKERS
2. SHADED CELLS WITH 'XST' INDICATE EXISTING LOADS TO BE RECONNECTED
3. PANEL IS CONNECTED TO 240/3 WITH HIGH LEG, FIELD COORDINATE HIGH LEG PHASE

PANELBOARD LOAD SCHEDULE

PANEL: PANEL B **MAIN:** MCB 225A **ENCLOSURE:** NEMA 1 **LOCATION:** BLDG 6310
VOLTS: 240/120, 1 PH., 3W.
RATING: 225 AMP **AIC RATING:** 10,000 **MOUNTING:** SURFACE **FED FROM:** LA1

CKT #	TRIP AMPS	POLE	LOAD IN VOLT-AMPERES					LOAD DESCRIPTION	PH	LOAD DESCRIPTION	LOAD IN VOLT-AMPERES					TRIP AMPS	POLE	CKT #
			LIGHTING	RECPT	MTRS&EQUIP	KITCHEN	HEAT/AC				HEAT/AC	KITCHEN	MTRS&EQUIP	RECPT	LIGHTING			
1	50					6528		FREEZER 1	A	XST FURNACE	5700					30		2
3		2						CONDENSING UNIT	B								2	4
5	20	1				480		AU-C2A/AU-C2B	A	XST CONDENSING		3200				20		6
7	20					2496		COOLER 4	B	UNIT							2	8
9		2						CONDENSING UNIT	A	XST LTS/OH DOOR					1500	20	1	10
11	20	1						SPARE	B	XST BATH FAN				720		20	1	12
13	20					2496		COOLER 3	A	XST ICE BAGGER				3800		20		14
15		2						CONDENSING UNIT	B								2	16
17	20	1				240		AU-C1B	A	XST OFFICE REC					1200	20	1	18
19	25					2496		COOLER 2	B	XST ICE MACHINE					5700	30		20
21		2						CONDENSING UNIT	A								2	22
23	20	1				480		AU-C1A/AUC1B	B	XST LOAD					1800	20	1	24
25	25					2496		COOLER 1	A	XST LOAD					1800	20	1	26
27		2						CONDENSING UNIT	B	ACU-C3					240	20	1	28
29	20	1						SPARE	A	XST LOAD						20	1	30
31	20	1	1800					XST OFFICE LTG	B	XST MICROWAVE					1800	20	1	32
33	20	1		1200				XST OFFICE REC	A	XST KITCHEN REC					1200	20	1	34
35	20	1		1800				XST REC	B	XST WATER HTR				3800		20		36
37	20	1		1800				XST REC	A								2	38
39	30				3000			XST ICE MACHINE	B	ACU-C4					240	20	1	40
41		2							B	XST OUTSIDE FRZ						20	1	42
43	30					4300		FREEZER 1 EVAP	B	OUTDOOR REC						20	1	32
45		2							A	FREEZER HEAT	1500					20	1	34
47	20	1						SPARE	B	COOLER CNTRL PWR				800		20	1	36
49	20	1						SPARE	A	FREEZER CNTRL PWR				800		20	1	38
51	30							SPARE	B	SPARE						20	1	40
53		2							B	SPARE						20	1	42

LOAD CALCULATIONS

LOAD TYPE	VA / PHASE A	VA / PHASE B	TOTAL VA	DEMAND FACTOR	DIVERSIFIED LOAD
LIGHTING	1,500	1,800	3300	1.00	3,300
RECEPTACLES	7,200	11,340	18540	0.35	6,489
MOTORS & EQUIP	4,600	8,320	12920	0.90	11,628
KITCHEN EQUIP.	15,440	5,472	20912	0.65	13,593
HEAT / AC	7,200	1,500	8700	0.90	7,830
LARGEST MOTOR				0.25	0
TOTAL AMPS: 178			TOTAL VA:		42,840

NOTES:

1. BREAKERS NOTED WITH * TO BE GFCI
2. SHADED CELLS WITH 'XST' INDICATE EXISTING LOADS TO BE RECONNECTED

LUMINAIRE SCHEDULE

TYPE	MANUFACTURERS	CATALOG INFORMATION	FIXTURE DESCRIPTION	LAMP DATA NO.	LAMP DATA TYPE	DRIVER DATA NO.	DRIVER DATA TYPE	INPUT WATTS	VOLTAGE	MOUNTING	REMARKS
F	LITHONIA	FEM	4 FOOT LINEAR LED FIXTURE, FOOD PROCESSING AND COLD STORAGE FIXTURE, FIBERGLASS HOUSING WITH GASKET, CLEAR ACRYLIC LENS, STAINLESS STEEL MOUNTING HARDWARE,NORMAL DISTRIBUTION	1	4000K LED 4000 LUMENS		LED DRIVER	22	MVOLT	UNIVERSAL	SURFACE MOUNT INSIDE WALK-IN
	OR EQUAL										

WALK-IN COOLER AND FREEZER REPLACEMENT, BUILDING 6310
Camp Gilbert C. Grafton, Devils Lake, ND
Owner: The Adjutant General, State of ND
NDNG Project NO. 2605

ARCHITECT
Shultz + Associates Architects
612 1/2 Main Avenue
Fargo, North Dakota
701.476.0714 p

REFRIGERATION ENGINEER
Nelson-Rudie & Associates
400 Highway 169 S, Suite 500
Minneapolis, Minnesota
763.367.7600 p

ELECTRICAL ENGINEER
MBN Engineering
701 Main Avenue
Fargo, North Dakota
701.478.6336 p

GENERAL NOTES

REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. BERGER
PE-4438
DATE 05-29-26
NORTH DAKOTA

MBN ENGINEERING
MECHANICAL * ELECTRICAL * CIVIL
701 MAIN STREET
FARGO, ND 58102
PHONE: 701.478.6336
FAX: 701.478.6340

SHULTZ + ASSOCIATES
ARCHITECTS

Date
May 29, 2026 2508-2

Drawing Title
ELECTRICAL SYMBOL LEGEND AND SCHEDULES

ME001

1 **PARTIAL MAIN LEVEL - ELECTRICAL DEMOLITION PLAN**

0' 4' 8' 16'

WALK-IN COOLER AND FREEZER REPLACEMENT, BUILDING 6310

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GENERAL NOTES

PLAN NOTES:

1. REMOVE ALL EXISTING CONNECTIONS TO FREEZER/COOLER COMPRESSOR AND REMOVE ASSOCIATED DISCONNECTS.
2. REMOVE ALL EXISTING CONNECTIONS TO FREEZER/COOLER EVAPORATOR AND REMOVE ASSOCIATED DISCONNECTS.
3. DISCONNECT AND REMOVE CONNECTIONS TO EXISTING FREEZER/COOLER LIGHTS.
4. REMOVE EXISTING PANEL, AND PROVIDE NEW RECESSED PANEL IN SAME LOCATION. RECONNECT EXISTING 200A SINGLE PHASE FEEDER AND ALL REMAINING EXISTING LOADS. COORDINATE CUTTING/PATCHING EXISTING WALL WITH GC. SEE PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
5. REMOVE EXISTING SERVICE ENTRANCE PANEL, AND PROVIDE NEW SURFACE MOUNTED PANEL IN SAME LOCATION. RECONNECT EXISTING 225A, 240V/3 PHASE SERVICE AND ALL REMAINING EXISTING LOADS. SEE PANEL SCHEDULE FOR ADDITIONAL INFORMATION.

   REMOVE EXISTING DOMESTIC COLD WATER

MECHANICAL PLAN DEMO NOTES:

1. REMOVE EXISTING DOMESTIC COLD WATER LINES TO COOLER/FREEZER CONDENSERS LOCATED ABOVE COOLER/FREEZER. REMOVE CONDENSATE PIPING FROM CONDENSER TO FLOOR DRAINS. REMOVE ALL ASSOCIATED PIPING AND CAP AT THE MAINS.

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701 MAIN STREET
FARGO, ND 58102
PHONE: 701.478.6336
FAX: 701.478.6340

SHULTZ + ASSOCIATES
ARCHITECTS

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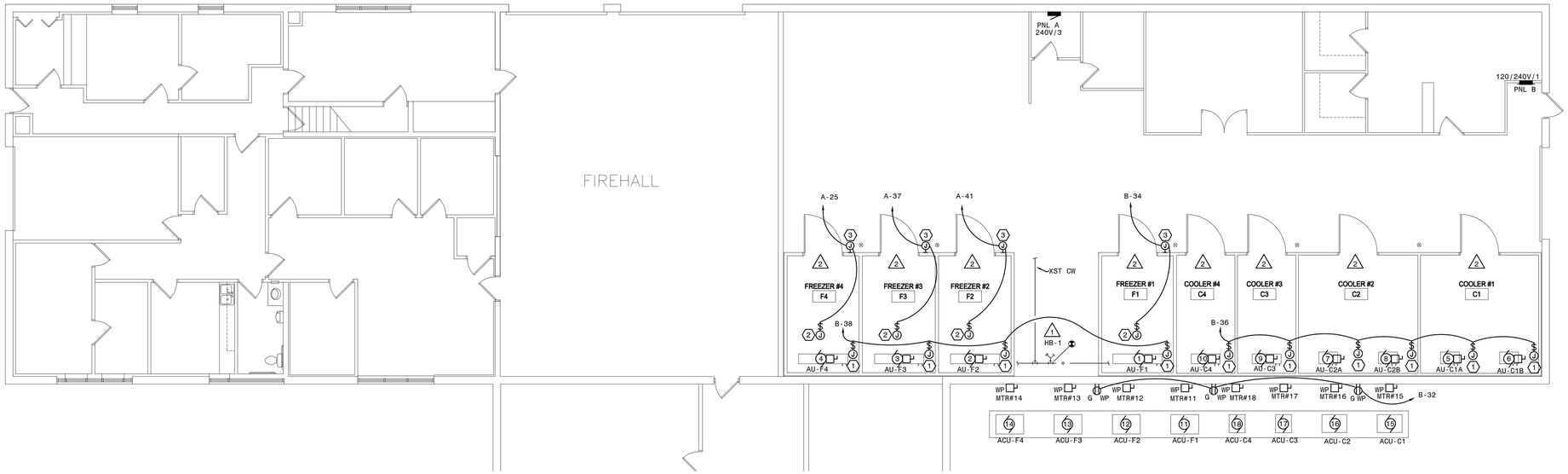
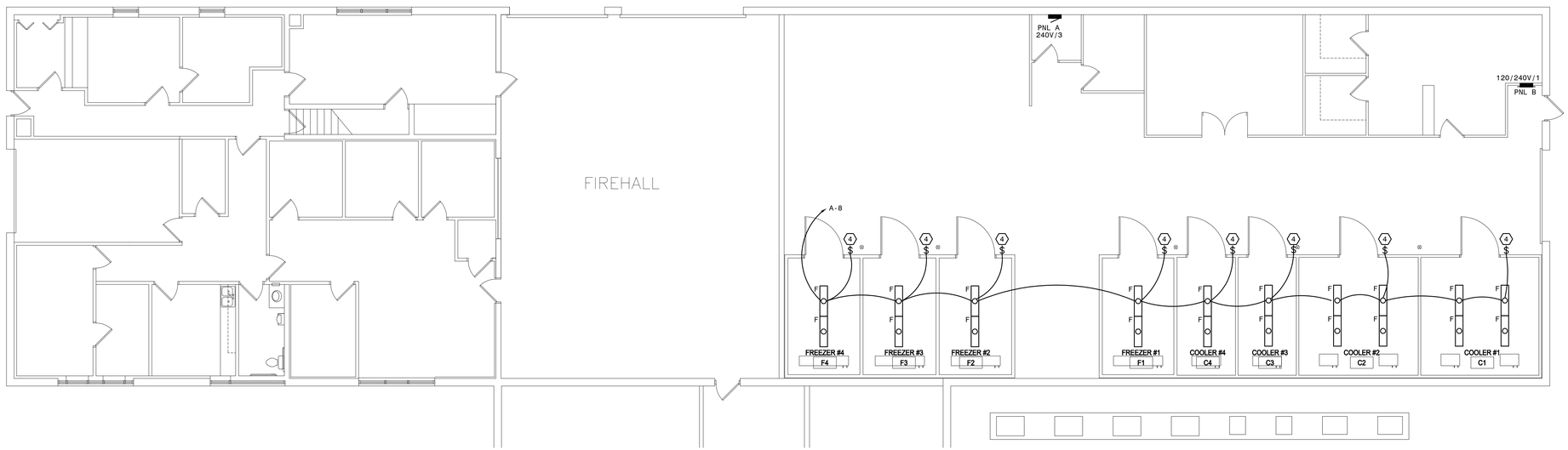
Drawing Title
MAIN LEVEL - ELECTRICAL DEMOLITION PLAN

ME100



2 PARTIAL MAIN LEVEL - POWER AND MECHANICAL PLANS

0' 4' 8' 16'



2 PARTIAL MAIN LEVEL - LIGHTING PLANS

0' 4' 8' 16'

WALK-IN COOLER AND FREEZER REPLACEMENT, BUILDING 6310

Camp Gilbert C. Grafton, Devils Lake, ND
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ARCHITECT
Shultz + Associates Architects
612 1/2 Main Avenue
Fargo, North Dakota
701.476.0714 p

REFRIGERATION ENGINEER
Nelson-Rudie & Associates
400 Highway 169 S, Suite 500
Minneapolis, Minnesota
763.367.7600 p

ELECTRICAL ENGINEER
MBN Engineering
701 Main Avenue
Fargo, North Dakota
701.478.6336 p

GENERAL NOTES

PLAN NOTES:

1. PROVIDE 120V CONNECTION TO SAFETY SOLENOID LOCATED AT EVAPORATOR COIL, AND ASSOCIATED WIRING BETWEEN SOLENOID AND THE EVAPORATOR CONTROL PANEL.
2. PROVIDE 120V CONNECTION TO HEAT TAPE AT FREEZER CONDENSATE LINES, COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER.
3. PROVIDE 120V CONNECTION TO HEATED VENT/DOOR HEATER EQUIPMENT. HEATERS TO BE FACTORY WIRED TO JUNCTION BOX, DIV 26 TO PROVIDE 120V CONNECTION. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER.
4. LIGHT SWITCH INCLUDED WITH WALK-IN SYSTEM, DIVISION 26 TO CONNECT.

MECHANICAL PLAN NOTES:

1. INSTALL HOSE BIBB 4' AFF, ROUTE 3/4" COLD WATER DOWN TO HOSE BIBB. PROVIDE ISOLATION VALVE IN THE VERTICAL.
2. REMOVE EXISTING COOLER DDC CONTROLS SENSOR AND INSTALL IN NEW COOLERS. MONITOR AND ALARM COOLER TEMPERATURE TO MATCH EXISTING CONTROLS SEQUENCE. VERIFY OPERATION AFTER REINSTALLATION IS COMPLETED

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Drawing Title
MAIN LEVEL- LIGHTING, POWER AND MECHANICAL PLANS

ME200