1 VICINITY MAP
NOT TO SCALE

ELECTRIC UNIT HEATER SCHEDULE

MARK	MANF.	MODEL	FAN	HEATING	ELECTRICAL		WEIGHT (lb)	NOTES
			AIRFLOW (CFM)	OUTPUT (kW)	V	Ø		
EH-1	INDEECO	926U05000UA-R2	700	5	208	1	45	1,2
EH-2	INDEECO	926U05000UA-R2	700	5	208	1	45	1,2

NOTES:
1. WIRING BY ELECTRICAL CONTRACTOR
2. WITH INTEGRAL THERMOSTAT

SEMI-HEATED SPACE CALCULATION PER WSEC C402.1.4

MAXIMUM HEATING SYSTEM OUTPUT CAPACITY PER DEFINITION WSEC SECTION C202.19 = 8 BTU/H/FT^2
WAREHOUSE AREA = 4,782 FT^2
MAXIMUM OUTPUT ALLOWED = 8 BTU/H/FT^2 * 4,782 FT^2 = 38,256 BTU/H / 3,414 KW/BTU = 11.2 KW > 10 KW (2 UNIT HEATERS * 5 KW)

RADIANT HEATER SCHEDULE

MARK	MANF.	MODEL	HEATING (WATTS)	ELECTRICAL		WEIGHT (lb)	NOTES
				V	Ø		
RH-1	INDEECO	AS2448-750-208-PT	750	208	1	30	1

NOTES:
1. WITH COMFORT CONTROLLER WIRED BY ELECTRICIAN.

EXHAUST FAN SCHEDULE

MARK	MANF.	MODEL	AIRFLOW (CFM)	ESP (IN-WC)	RPM	MOTOR HP	ELECTRICAL				WEIGHT (lb)	NOTES
							V	Ø	MCA (A)	MOCP (A)		
EF-1	GREENHECK	SQ-80-VG	300	.25	1438	0.04	115	1	2	15	61	1,2

NOTES:
1. INTERLOCK WITH MOTORIZED DAMPERS, SEE SCHEDULE THIS SHEET.
2. SWITCHED TO RUN CONTINUOUSLY BY ELECTRICAL CONTRACTOR.

PER IMC TABLE 403.3 WAREHOUSE FANS TO EXHAUST MINIMUM OF 0.06 CFM/FT^2
WAREHOUSE AREA= 4,782 FT^2
MINIMUM EXHAUST ALLOWED= 4,782 FT^2 * 0.06 CFM/FT^2 = 287 CFM < 300 CFM = (1 FAN * 300 CFM)

DESTRATIFICATION FAN SCHEDULE

MARK	MANF.	MODEL	FAN DIA. (IN.)	AIRFLOW (CFM)	MOTOR (W)	V	Ø	WEIGHT (lb)	NOTES
DF-1	BIG ASS FANS	HAIKU	84	17,369	42.3	240	1	26	1,2
DF-2	BIG ASS FANS	HAIKU	84	17,369	42.3	240	1	26	1,2
DF-3	BIG ASS FANS	HAIKU	84	17,369	42.3	240	1	26	1,2
DF-4	BIG ASS FANS	HAIKU	84	17,369	42.3	240	1	26	1,2

NOTES:
1. FANS CONTROLLED BY TOUCH SCREEN INTERFACE
2. FAN SHALL BE MOUNTED 41" BELOW THE BEAM

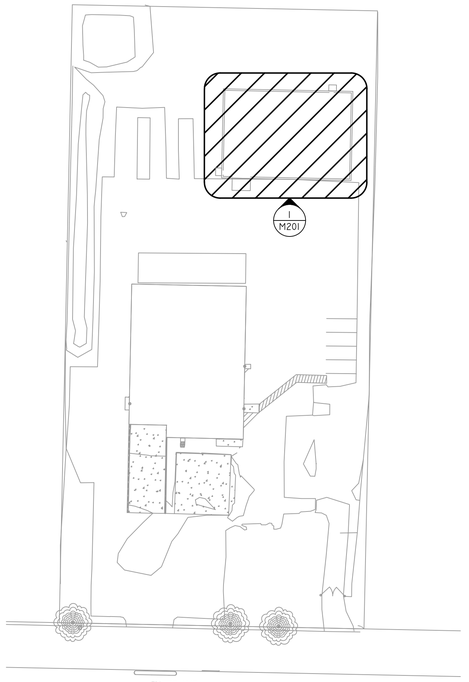
1

LOUVER SCHEDULE

MARK	MANF.	MODEL	SIZE	FREE AREA FT^2	LOCATION
L-1	GREENHECK	ESD-403	14"x14"	.42	---
L-2	GREENHECK	ESD-403	18"x18"	.83	---

MOTORIZED DAMPER VOLTAGE

EQUIPMENT	VOLTAGE
L-1	120
L-2	120



2 SITE PLAN
NOT TO SCALE

GOVERNING CODE INFORMATION

2018 INTERNATIONAL BUILDING CODE WITH STATEWIDE AMENDMENTS
2018 INTERNATIONAL MECHANICAL CODE WITH STATEWIDE AMENDMENTS
2018 INTERNATIONAL FIRE CODE WITH STATEWIDE AMENDMENTS
2018 INTERNATIONAL ENERGY CONSERVATION CODE/WASHINGTON STATE ENERGY CODE
2018 INTERNATIONAL EXISTING BUILDING CODE WITH STATEWIDE AMENDMENTS FOUND IN THE IBC

COMMISSIONING PLAN

ALL COMMISSIONING OF HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS AS REQUIRED BY SECTION C408 "SYSTEM COMMISSIONING" OF THE 2018 WASHINGTON STATE ENERGY CODE (WSEC) SHALL BE PERFORMED BY EVERGREEN REFRIGERATION, LLC. THE ACTIVITIES TO BE ACCOMPLISHED ARE PER THE SECTIONS LISTED IN THE "COMMISSIONING COMPLIANCE CHECKLIST" SHOWN BELOW. AT THE COMPLETION OF THE ACTIVITIES REQUIRED FOR COMMISSIONING AS DEFINED BY SECTION C408 OF WSEC THE "COMMISSIONING COMPLIANCE CHECKLIST" WILL BE REVIEWED WITH THE BUILDING OWNER OR THE OWNER'S REPRESENTATIVE AND THIS CERTIFICATION WILL BE SIGNED AND DATED. THIS WILL SATISFY TO THE CODE OFFICIAL THAT THE REPORT HAS BEEN ACCEPTED AS REQUIRED BY SECTION C408.1.3 OF WSEC.

COMMISSIONING COMPLIANCE CHECKLIST

PROJECT INFORMATION
- **Project Name:**
- **Project Address:**
- **Certified Commissioning Professional:**
- **Type of ISO Certification and Number:**

SUPPORTING DOCUMENTS
- **Manuals, record documents and training have been completed or are scheduled** (SECTION C103.6)
  - BUILDING OPERATING AND MAINTENANCE INFORMATION (C103.6.2) HAVE BEEN SUBMITTED TO THE OWNER OR SCHEDULED DATE: _____
  - MANUALS (C103.6.2.1) HAVE BEEN SUBMITTED TO THE OWNER OR SCHEDULED DATE: _____
  - COMPLIANCE DOCUMENTATION (C103.6.3) HAS BEEN SUBMITTED TO OWNER OR SCHEDULED DATE: _____
  - SYSTEM OPERATION TRAINING (C103.6.4) HAS BEEN PROVIDED TO THE OWNER OR SCHEDULED DATE _____

COMMISSIONING PLAN
- **Commissioning Plan was used during construction** (Section C408.1.2)

COMMISSIONING REPORT
- **Commissioning Report has been submitted** (Section C408.1.3)

COMMISSIONED SYSTEMS
- **Mechanical Systems were included in the commissioning process** (Section C408.2)
  - Testing, adjusting and balancing is complete (Section C408.2.2)
  - There are unresolved deficiencies with the mechanical system. These are described in the attached Commissioning Report submitted to the owner
- **Service Water Heating Systems were included in the commissioning process** (Section C408.3)
  - There are unresolved deficiencies with the service water heating system. These are described in the attached Commissioning Report submitted to the Owner.
- **Controlled Receptacles and Lighting Control Systems were included in the commissioning process** (Section C408.4)
  - There are unresolved deficiencies with the electrical power and/or automatic lighting controls. These are described in the attached Commissioning Report submitted to the Owner.
- **Additional Systems were included in the commissioning process** (Section C408.5)
  - There are unresolved deficiencies with systems required by C406 or C407. These are described in the attached Commissioning Report submitted to the Owner.
- **Metering Systems were included in the commissioning process** (Section C408.6)
  - There are unresolved deficiencies with the metering system. These are described in the attached Commissioning Report submitted to the Owner.
- **Refrigeration Systems were included in the commissioning process** (Section C408.7)
  - There are unresolved deficiencies with systems required by section C410. These are described in the attached Commissioning Report submitted to the Owner.

CERTIFICATION
- I HEREBY CERTIFY THAT ALL REQUIREMENTS FOR SECTION C408 SYSTEM COMMISSIONING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE WASHINGTON STATE ENERGY CODE, INCLUDING ALL THE ITEMS ABOVE.
  CERTIFIED COMMISSIONING PROFESSIONAL _____ DATE _____
- I HEREBY CERTIFY THAT ALL REQUIREMENTS FOR SECTION C408 SYSTEM COMMISSIONING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE WASHINGTON STATE ENERGY CODE, INCLUDING ALL THE ITEMS ABOVE.
  BUILDING OWNER OR OWNER'S REPRESENTATIVE _____ DATE _____

THE APPROVED CONSTRUCTION PLANS, DOCUMENTS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITEE ON SITE FOR INSPECTION

City of Puyallup Building ACCEPTED
JMontgomery
05/05/2023
10:13:50 AM
CITY OF PUYALLUP STATE OF WASHINGTON

PRMH20230349

GENERAL NOTES

DUCTWORK
1.1 ALL DUCT DIMENSIONS ON PLAN ARE CLEAR INSIDE DIMENSIONS, ADD 2" TO EACH DIMENSION TO OBTAIN OUTSIDE DIMENSION. ADD 4" TO EACH DIMENSION IF THE DUCTWORK IS ON THE INTERIOR OF THE BUILDING.
1.2 THE FIRST NUMBER ON ALL DUCT DIMENSIONS IS THE WIDTH AND THE SECOND IS THE HEIGHT.
1.3 MATERIALS WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD RATING LESS THAN 25 AND A FLAME SMOKE DEVELOPMENT LESS THEN 50, PER IMC 602.2.1.
1.4 SEAL ALL TRANSVERSE JOINTS FOR DUCTWORK WITH STATIC PRESSURE BETWEEN 1/2 INCHES AND 2 INCHES. DUCTWORK WHICH IS DESIGNED TO OPERATE AT PRESSURES ABOVE 1/2 WATER COLUMN SHALL BE SEALED IN ACCORDANCE WITH STANDARD RS-7.
1.5 ALL DUCT GAUGES PER SMACNA, IMC 603-4.
1.6 ALL DUCT SUPPORTS PER SMACNA, IMC 603-10.
1.7 ATTACH DIFFUSERS AND GRILLES TO T-BAR PER WA STATE & LOCAL CODES.
1.8 BALANCING DAMPERS ARE TO BE INSTALLED ON ALL BRANCH DUCTS OR DIFFUSERS.

INSULATION
2.1 WHEN PRESENT, INSULATE OR LINE DUCTWORK PER WA. STATE ENERGY AND MECHANICAL CODES.
2.2 WHEN PRESENT, INSULATE REFRIGERANT & CONDENSATE PIPING PER STATE & LOCAL ENERGY CODES.

GENERAL CONTRACTOR
3.1 GENERAL CONTRACTOR TO PROVIDE AND CUT OPENINGS FOR ALL ROOFTOP, CEILING, FLOOR, AND WALL PENETRATIONS, INCLUDING WEATHERPROOF SEALING AND FIRE PROOF LININGS PER IMC & IBC.
3.2 GENERAL CONTRACTOR TO VERIFY PENETRATION LOCATION AND DIMENSIONS WITH ERL BEFORE FRAMING OPENINGS.
3.3 GENERAL CONTRACTOR TO PROVIDE ALL DEMOLITION, PATCHING, AND PAINTING AS REQUIRED FOR MECHANICAL WORK.
3.4 GENERAL CONTRACTOR TO PROVIDE ADEQUATE STRUCTURAL SUPPORT AS REQUIRED FOR MECHANICAL WORK.
3.5 GENERAL CONTRACTOR TO PROVIDE SERVICE ACCESS PER CODE TO ALL MECHANICAL EQUIPMENT.
3.6 GENERAL CONTRACTOR TO LEVEL ALL FACTORY CURBS PROVIDED BY ERL PROVIDE ALL CANT STRIPS AND CURB INSULATION, AND SEAL AGAINST LEAKS.
3.7 GENERAL CONTRACTOR TO PROVIDE ALL CUTTING AND PATCHING OR T-BAR CEILING AS REQUIRED FOR HVAC INSTALLATION.
3.8 GENERAL CONTRACTOR TO PROTECT ALL OPENINGS THROUGH FLOORS PROVIDED FOR DUCTWORK INSTALLATION IN ACCORDANCE WITH TABLE 601 OF INTERNATIONAL BUILDING CODE, WHERE REQUIRED BY SECTION 707 OF IBC.

ELECTRICAL
4.1 ERL TO INSTALL ALL LOW VOLTAGE CONTROL WIRING, CONDUIT WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
4.2 ELECTRICAL CONTRACTOR TO PROVIDE ALL ELECTRICAL CONNECTIONS, DISCONNECTS, AND STARTERS FOR MECHANICAL EQUIPMENT.
4.3 ELECTRICAL CONTRACTOR TO VERIFY EQUIPMENT SIZES, LOADS AND LOCATIONS, WITH ERL MECHANICAL PLAN AND WITH FIELD LOCATIONS.
4.4 ERL TO VERIFY FINAL LOCATION OF THERMOSTAT WITH CUSTOMER. IF APPLICABLE.
4.5 ELECTRICIAN TO PROVIDE APPURTENANCES IN ACCORDANCE WITH NEC 210.63, AND ALL OTHER APPLICABLE SECTIONS.

PLUMBING
5.1 PLUMBING CONTRACTOR OFFSETS VENTS 10 FEET MINIMUM FROM ALL HVAC FRESH AIR INTAKES OR 3' ABOVE HIGHEST POINT OF INTAKE, IMC 401.4.1
5.2 CONDENSATE DRAINS FOR AIR HANDLERS BY PLUMBER.

ENERGY CODE COMPLIANCE
6.1 THE SUPPLY HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE. AT MINIMUM, EACH FLOOR SHALL BE CONSIDERED A ZONE.
6.2 OUTDOOR AIR SUPPLY, EXHAUST OPENINGS AND RELIEF OUTLETS SHALL BE PROVIDED WITH CLASS 1A MOTORIZED DAMPERS WHICH CLOSE AUTOMATICALLY WHEN THE SYSTEM IS OFF PER WSEC SECTION C403.7.8.

MECHANICAL CODE COMPLIANCE
7.1 WHERE REQUIRED PROVIDE AUTOMATIC SHUTOFF ACTIVATED BY SMOKE DETECTORS IN EACH SYSTEM DELIVERING HEATING OR COOLING AIR IN EXCESS OF 2000 CFM. DETECTORS SHALL BE LOCATED IN THE MAIN RETURN AIR PER IMC 606.

WA2018

SYMBOL LEGEND

NOTE: NOT ALL SYMBOLS SHOWN ON THIS LEGEND MAY PERTAIN TO THIS PROJECT.

10"X20"	RECTANGULAR DUCT
10"Ø	ROUND DUCT
Ø6	ROUND SPIRAL DUCT
	FLEXIBLE DUCT
	SUPPLY DUCT SECTION
	RETURN DUCT SECTION
	EXHAUST DUCT SECTION
	SUPPLY DIFFUSER
	RETURN/EXHAUST GRILLE
	SIDEWALL DIFFUSER
	CEILING MOUNTED EXHAUST FAN
	INLINE FAN
	MANUAL VOLUME DAMPER
	ZONE DAMPER
M	MOTORIZED DAMPER
B	BACKDRAFT DAMPER
	FIRE SMOKE DAMPER (120V POWER REQ.)
	FIRE DAMPER
T	THERMOSTAT
SD	SMOKE DETECTOR
S	SENSOR
LV	LINE VOLTAGE THERMOSTAT
TC	TIME CLOCK
	EQUIPMENT TAG
CD-1 / 250 CFM	DIFFUSER/GRILLE TAG
U	UNDER CUT DOOR

Evergreen Refrigeration & HVAC
EVERGRL954R2
727 SOUTH KENYON STREET
SEATTLE, WASHINGTON 98108
PHONE: (206)763-1744
www.evergreenhvac.com

KEVIN H. TAKAYESU STATE OF WASHINGTON 0052287 REGISTERED PROFESSIONAL ENGINEER
ENGINEER'S STAMP HERE

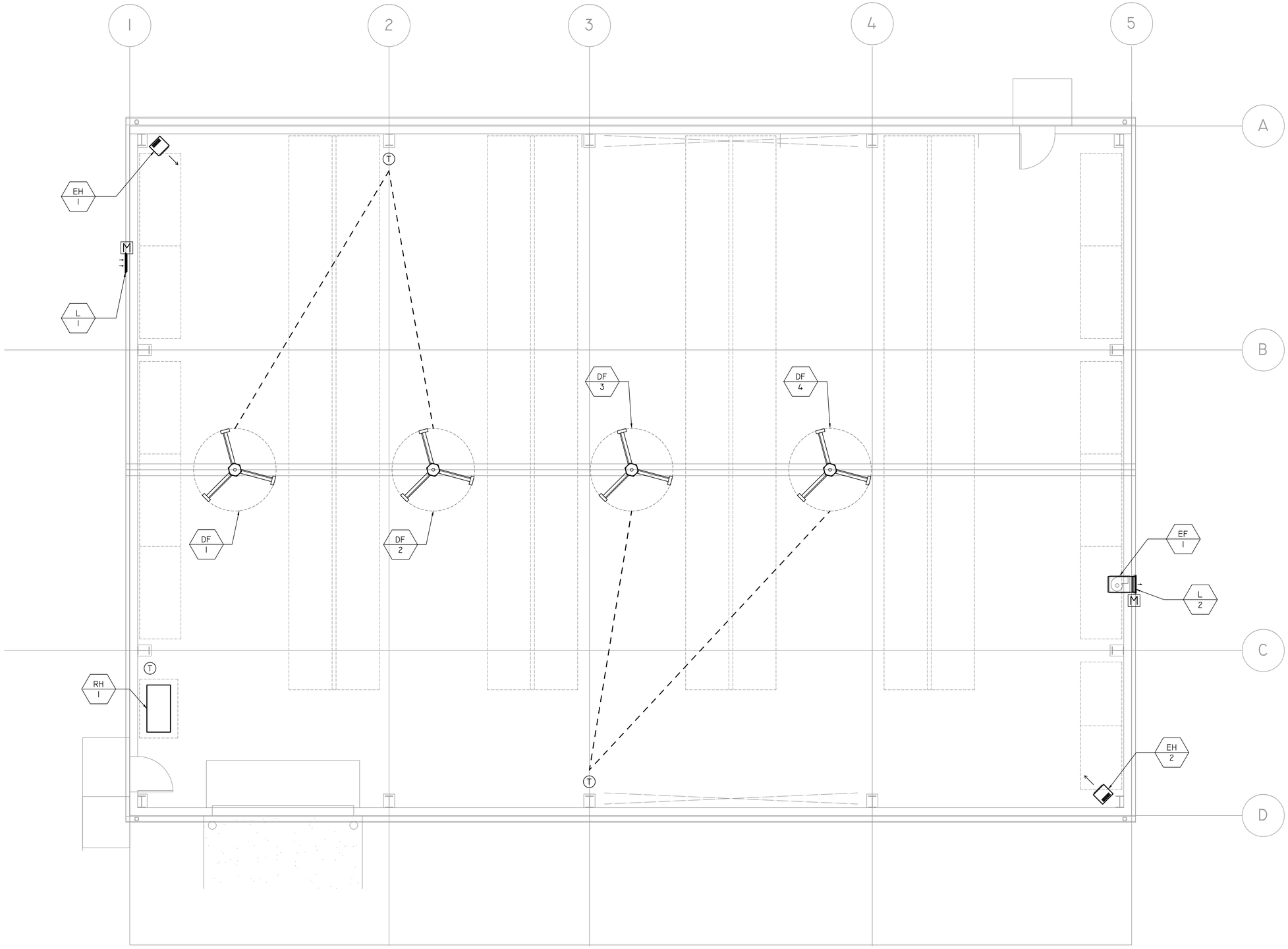
COVER SHEET

CIMCO WAREHOUSE
2315 INTER AVE.
PUYALLUP, WA 98372

REV.	DATE	DESCRIPTION
1	5.2.23	PERMIT CORRECTIONS

PERMIT SET
DATE: 05.2.23 ■
ISSUED FOR CONSTRUCTION
DATE: ---- ☐
AS BUILT
DATE: ---- ☐

CIMCO WAREHOUSE
COVER SHEET
DWG BY: JC
CKD BY: KT/AF
JOB NO.: 523109
SHEET:
M001



1 HVAC PLAN
SCALE: 1/4"=1'

0 2' 4' 8' 16'

PRMH20230349

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KEVIN H. TAKAYESU
STATE OF WASHINGTON
0052287
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OVERALL FLOOR PLAN

CIMCO WAREHOUSE
2315 INTER AVE.
PUYALLUP, WA 98372

REV.	DATE	DESCRIPTION
1	5.2.23	PERMIT CORRECTIONS

PERMIT SET ■
DATE: 05.2.23

ISSUED FOR CONSTRUCTION □
DATE: ----

AS BUILT □
DATE: ----

CIMCO WAREHOUSE	
OVERALL FLOOR PLAN	
DWG BY:	JC
CKD BY:	KT/AF
JOB NO.:	523109
SHEET:	M201

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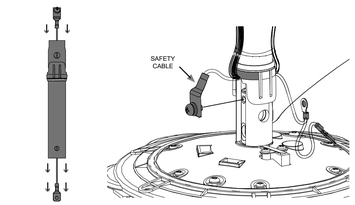
SECURE LOWER SAFETY CABLE

THREAD THE SAFETY CABLE THROUGH THE EXTENSION TUBE. MAKE SURE THE END WITH THE CAPTIVE SCREW IS AT THE BOTTOM OF THE EXTENSION TUBE.

SECURE THE CAPTIVE SCREW ON THE SAFETY CABLE TO THE MOTOR SHAFT AS SHOWN.



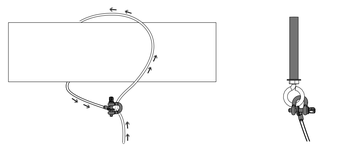
SECURE UPPER SAFETY CABLE

WRAP THE UPPER END OF THE SAFETY CABLE AROUND AN EXISTING PART OF THE BUILDING STRUCTURE OR AN ANCHOR HOOK.

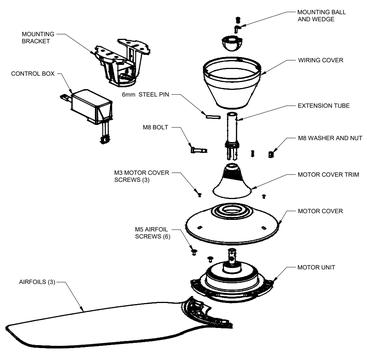
SECURE IT WITH THE PROVIDED SHACKLE AS SHOWN.

ACCEPTABLE BUILDING STRUCTURES INCLUDE WOODEN BEAMS OR METAL MOUNTING BRACES SECURED BETWEEN TWO BEAMS.

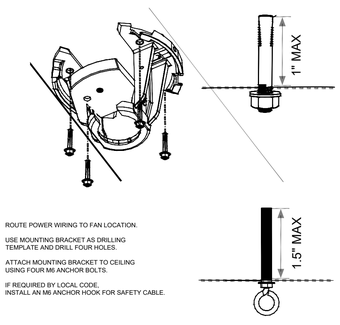
IN SOME CASES IT MAY BE NECESSARY TO INSTALL ADDITIONAL STRUCTURAL MATERIAL TO PROVIDE ATTACHMENT POINTS.



SAFETY CABLE INSTRUCTIONS
NOT TO SCALE



FAN MOUNTING DETAILS
NOT TO SCALE



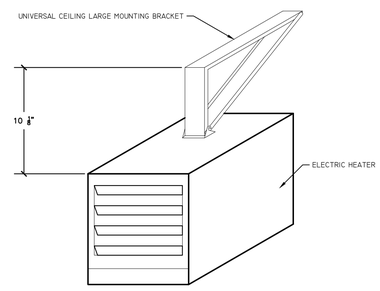
ROUTE POWER WIRING TO FAN LOCATION.

USE MOUNTING BRACKET AS DRILLING TEMPLATE AND DRILL FOUR HOLES.

ATTACH MOUNTING BRACKET TO CEILING USING FOUR M6 ANCHOR BOLTS.

IF REQUIRED BY LOCAL CODE, INSTALL AN M6 ANCHOR HOOK FOR SAFETY CABLE.

SEISMIC BRACING DETAIL
NOT TO SCALE



ELECTRIC HEATER MOUNTING DETAIL
NOT TO SCALE

PRMH20230349

REV.	DATE	DESCRIPTION
1	5.2.23	PERMIT CORRECTIONS

PERMIT SET ■
DATE: 05.2.23

ISSUED FOR CONSTRUCTION □
DATE: ----

AS BUILT □
DATE: ----

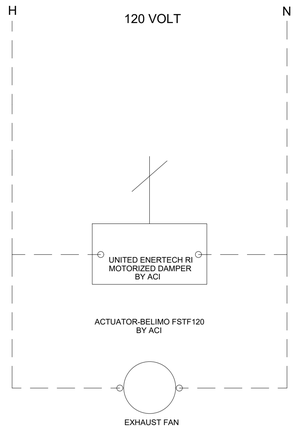
DETAILS

CIMCO WAREHOUSE
2315 INTER AVE.
PUYALLUP, WA 98372

CIMCO WAREHOUSE	
DETAILS	
DWG BY:	JC
CKD BY:	KT/AF
JOB NO.:	523109

SHEET:
M301

MATERIAL LIST		SEQUENCE OF OPERATIONS
1	UNITED ENERTECH RI	- EXHAUST FAN RUNS CONTINUOUSLY. - MOTORIZED DAMPER IS OPEN.
1	BELIMO FSTF120 ACTUATOR	



-ALL 120V EQUIPMENT AND CONTROLS PROVIDED BY ERL AND INSTALLED BY ELECTRICAL CONTRACTOR.

EXHAUST FAN/ MOTORIZED DAMPER DETAIL

SCALE : NONE

PRMH20230349

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KEVIN H. TAKAYESU
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WIRING DIAGRAM

CIMCO WAREHOUSE

2315 INTER AVE.
PUYALLUP, WA 98372

REV.	DATE	DESCRIPTION
1	5.2.23	PERMIT CORRECTIONS

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DATE: 05.2.23

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DATE: ----

AS BUILT ☐
DATE: ----

CIMCO WAREHOUSE
WIRING DIAGRAMS

DWG BY:	JC
CKD BY:	KT/AF
JOB NO.:	523109

SHEET:
M401