				L	IGHTING SYMBOL LEGEND	
BACKBOX & RACEWAY BY	DEVICE BY	INSTALLED BY	WIRED BY	<u>SYMBOL</u>	E - ELECTRICAL CONTRACTOR M - MECHANICAL CONTRACTOR X - OTHERS  DESCRIPTION	HEIGHT TO MIDDLE O DEVICE (U.N.O.)
Е	Е	Е	Е	\$	SINGLE POLE SWITCH	46"
Е	Е	Е	Е	3 \$	3-WAY SWITCH	46"
Е	Е	Е	Е	\$	4-WAY SWITCH	46"
Е	Е	Е	Е	D \$	DIMMER SWITCH	46"
Е	Е	Е	Е	os \$	OCCUPANCY SENSOR SWITCH	46"
Е	Е	Е	Е	(OS)	CEILING OCCUPANCY SENSOR - DUAL TECHNOLOGY TYPE	
Е	Е	Е	Е	LS	CEILING LIGHT LEVEL SENSOR	
Е	Е	Е	Е	PC	PHOTOCELL	
Е	Е	Е	Е	•-	POLE MOUNTED LIGHT (TYPE DENOTED)	PER SCHEI
Е	Е	Е	Е	Q 🛒	WALL MOUNTED LIGHT (TYPE DENOTED)	AS NOTE
Е	Е	Е	Е	0	RECESSED LIGHT (TYPE DENOTED)	
Е	Е	Е	Е	X co	SURFACE LIGHT (TYPE DENOTED)	
Е	Е	Е	Е	P1 • P2	SUSPENDED OR PENDANT LIGHT (TYPE DENOTED)	
Е	Е	Е	Е	<b>├</b>	INDUSTRIAL LIGHT (TYPE DENOTED)	
Е	Е	Е	Е		TRACK AND TRACK LIGHT (TYPES DENOTED)	AS NOTE
Е	Е	Е	Е		EMERGENCY DOUBLE HEAD WALL LIGHT (TYPE DENOTED)	96"
Е	Е	Е	Е	₩ •	EXIT SIGN (TYPE DENOTED)	
Е	Е	Е	Е		LIGHT FIXTURE ON (EM) LIFE SAFETY OR CRITICAL BRANCH	AS NOTE

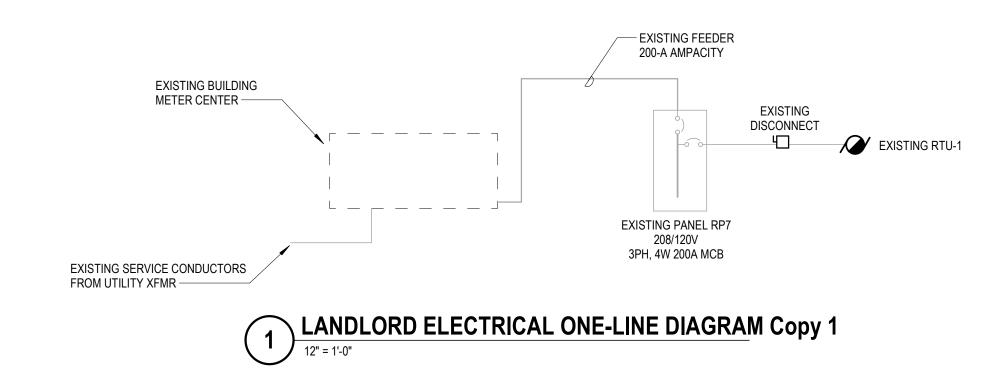
					POWER SYMBOL LEGEND	
BACKBOX & RACEWAY BY	DEVICE BY	INSTALLED BY	WIRED BY	<u>SYMBOL</u>	E - ELECTRICAL CONTRACTOR M - MECHANICAL CONTRACTOR X - OTHERS  DESCRIPTION	HEIGHT TO MIDDLE OF DEVICE (U.N.O.)
Е	Е	Е	Е	φ	SINGLE RECEPT ("EM" = EMERGENCY, "HG" = HOSPITAL GRADE, "TR" = TAMPER RES	SISTANT) 18"
Е	Е	Е	Е	Φ	DUPLEX RECEPT ("EM" = EMERGENCY, "HG" = HOSPITAL GRADE, "U" = CONNECTED	TO UPS) 18"
Е	E	E	E	<b>+</b>	GFCI RATED DUPLEX RECEPT	18"
Е	E	E	Е	•	ISOLATED GROUND DUPLEX RECEPT	18"
Е	E	E	Е	•	SWITCHED DUPLEX RECEPT (SPLIT-WIRE)	18"
Е	E	E	Е	•	ABOVE COUNTERTOP DUPLEX RECEPT, MOUNT 4" ABOVE BACKSPLASH OR 42"	
Е	E	E	Е	#	FOURPLEX RECEPT ("EM" = EMERGENCY, "HG" = HOSPITAL GRADE, "U" = CONNECTION	ED TO UP:18"
Е	Е	Е	E	<b>(A)</b>	SPECIAL RECEPT OR CONNECTION, PROVIDE DIRECT POWER CONNECTION OR MATCHING RECEPTACLE AS REQUIRED, COORDINATE W/ EQUIPMENT MANUFACTURER	18"
Е	Е	Е	Е	0	CEILING RECEPT (DUPLEX SHOWN)	
Е	Х	Х	Х	① <b>①</b> ①	JUNCTION BOX (FLOOR, WALL, CEILING SHOWN)	AS NOTED
Е	Е	Е	Е	42	SAFETY DISCONNECT SWITCH (FUSED)	72"
Е	E	Е	Е	42	COMBO MOTOR STARTER/DISCONNECT SWITCH (FUSED)	72"
Е	E/M	E/M	Е	VFD	VARIABLE FREQUENCY DRIVE	
Е	E/M	E/M	Е	/ /	SINGLE PHASE MOTOR (SEE SCHEDULE)	
Е	E/M	E/M	Е		THREE PHASE MOTOR (SEE SCHEDULE)	
Е	Е	Е	Е		CIRCUIT BREAKER PANEL	72"
Е	E	Е	Е	T	TRANSFORMER (TYPE DENOTED)	

	WIRING SYMBOL LEGEND									
BACKBOX & RACEWAY BY	DEVICE BY	INSTALLED BY	WIRED BY	<u>SYMBOL</u>	E - ELECTRICAL CONTRACTOR M - MECHANICAL CONTRACTOR X - OTHERS  DESCRIPTION	HEIGHT TO MIDDLE OF DEVICE (U.N.O.)				
Е	Е	Е	Е		CONDUIT CONCEALED IN WALL OR OVERHEAD					
Е	E	Е	Е		BRANCH CIRCUIT HOME RUN					
Е	Е	Е	Е	<i>/</i>	LOW VOLTAGE POWER WIRING					
Е	Е	Е	Е		UNDERGROUND ELECTRICAL					

	LUMINAIRE SCHEDULE										
TYPE	DESCRIPTION	MOUNTING	LAMP	VOLT	WATT	MANUFACTURER	CATALOG NUMBER	APPROVED EQUAL	NOTE		
A1	LED TROFFER	RECESSED	LED	120 V	50 W	KEYSTONE	KT-BPLED50PS-24-8CSA-VDIM				
A1E	LED TROFFER - EMERGENCY	RECESSED	LED	120 V	50 W	KEYSTONE	KT-BPLED50PS-24-8CSA-VDIM-EM12				
X1	WALL MOUNTED EXIT SIGN	WALLL MOUNT	LED	120 V	1 W	LITHONIA	LQM-S-W-3-G-120/277-ELN-SD				

SCHEDULE NOTES:

ONE #	DIM (Y/N)	DAYLIGHT HARVESTING (Y/N)	OCCUPANCY SENSOR (Y/N)	ZONE DESCRIPTION	ON TRIGGER	OFF TRIGGER	LOCAL SWITCH STATION FUNCTIONS
1	Y	N	Y	NON DAYLIT AREA	LOCAL SWITCH STATION BUTTON	LOCAL SWITCH STATION BUTTON/LACK OF OCCUPANCY AFTER 20 MINUTES	BUTTON #1 - ALL LIGHTS AND RECEPTACLES ON. BUTTON #2 - ALL LIGHTS AND RECEPTACLES OFF.
2	Y	Y	Y	DAYLIT AREA	LOCAL SWITCH STATION BUTTON	LOCAL SWITCH STATION BUTTON/LACK OF OCCUPANCY AFTER 20 MINUTES	BUTTON #3 - DAYLIT AREA RAISE. BUTTON #4 - DAYLIT AREA LOWER. BUTTON #4 - NON-DAYLIT AREA RAISE.
3	N	N	Y	LOCAL SWITCH STATION BUTTON	LOCAL SWITCH STATION BUTTON	LOCAL SWITCH STATION BUTTON/LACK OF OCCUPANCY AFTER 20 MINUTES	BUTTON #4 - NON-DAYLIT AREA LOWER. BUTTON #5 - RESUME DAYLIGHT HARVESTING PRESET



### GENERAL ELECTRICAL NOTES

- 1. ELECTRICAL SERVICE FOR NEW LEASE SPACE IS EXISTING, RE: ELECTRICAL ONE-LINE
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NEC AND ALL
- APPLICALBE CODES.

  3. ALL ELECTRICAL CIRCUITS SHALL BE CLEARLY LABELED ON THE ELECTRICAL PANEL
- SEE PANEL SCHEDULE ON SHEET E0.1

  4. OUTLETS AND JUNCTION BOXES SHOWN INDICATE THE FINAL DESIRED LOCATION.
  SHOULD THEY ALREADY EXIST AS SHOWN AND MEET CURRENT APPLICABLE CODES
  AND ADA, THEY WILL REMAIN CONNECTED IN CURRENT LOCATION. REPLACE
- EXISTING RECEPTACLE AND COVER PLATE WITH NEW.

  5. RECEPTACLE SHALL BE MOUNTED AT 18" AFF TO CENTER UNLESS NOTED
- OTHERWISE OR REQUIRED BY CODE.
  RECEPTACIES SITUATED IN THE SAME STUD CAVIT
- RECEPTACLES SITUATED IN THE SAME STUD CAVITY MUST BE PROPERLY INSULATED
  TO ATTENUATE SOUND. BACK TO BACK RECEPTACLES SHALL NOT BE ALLOWED.
   SPACE GANG POWER TELEPHONE AND DATA OUTLETS AS CLOSE AS POSSIBLE AND
- IN NO CASE WIDER THAN 6" ON CENTER.

  8. ALL ELECTRICAL CIRCUITS, CONDUIT AND MAESTRO LAN CABLE AND TELEPHONE
- CABLE SHALL RUN CONCEALED WITHIN WALL STUD CAVITIES, SURFACE MOUNTED WIREMOLD IS NOT ACCEPTABLE UNLESS AUTHORIZED BY MARINER FINANCIAL.

  9. ELECTRICAL CONTRACTOR SHALL COMPLETELY COORDINATE ALL CONNECTIONS AND OVERCURRENT PROTECTION FOR ALL NEW MECHANICAL EQUIPMENT WITH
- MECHANICAL CONTRACTOR.

  10. GENERAL CONTRACTOR SHOULD CONTACT ENGINEER FOR ANY AND ALL

  ENGINEERING PROJUBER TO PROPERLY SIZE ALL ELECTRICAL MIRING. PREAKERS.
- ENGINEERING REQUIRED TO PROPERLY SIZE ALL ELECTRICALWIRING, BREAKERS, ETC TO MEET ALL REQUIRED CODES.

  11. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DATA AND VOICE CABLE, CABLE TO
- BE PLENUM RATED CAT6 WITH NO CONDUIT. DATA OUTLETS SHALL BE RJ45 FEMALE; CAT6 GROUND BUSS BAR TO BE MOUNTED AT IT PHONE BOARD. ELECTRICAL CONTRACTOR TO TEST AND CERTIFY DATA AND VOICE ARE WORKING.
- 12. DATA OUTLETS SHOWN INDICATE THE FINAL DESIRED LOCATION, SHOULD THEY ALREADY BE EXISTING, THEY SHALL BE REUSED.
- 13. TENANT SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH TELEPHONE COMPANY FOR SERVICE.
- 14. ELECTRICAL CONTRACTOR SHALL SET ALL WALL SWITCH OCCUPANCY SENSORS TO A 10 MINUTE OVERRIDE DELAY SHUTOFF.
- 15. ALL CONDUCTORS TO BE COPPER WITH THHN/THHN-2 INSULATION. #12 AWG
  MINIMUM SIZE (#10 MINIMUM SIZE FOR CIRCUIT LENGTHS GREATER THAN 75 FEET).
- MINIMUM SIZE (#10 MINIMUM SIZE FOR CIRCUIT LENGTHS GREATER THAN 75 FEET).

  16. ALL WIRING TO BE IN EMT (1/2" MIN. SIZE) OR MC CABLE. EMT REQUIRED FOR HOME RUNS AND EXPOSED WORK.
- 17. EC TO SUPPORT ALL LIGHT FIXTURES IN GRID BY ALL FOUR CORNERS WITH CABLE.

# **ELECTRICAL ABBREVIATIONS**

Α	AMPERES
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
С	CONDUIT
СВ	CIRCUIT BREAKER
DET	DETAIL
DISC	DISCONNECT
DIST	DISTRIBUTION
EF	EXHAUST FAN
EM	EMERGENCY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FLA	FULL LOAD AMPS
IBC	INTERNATIONAL BUILDING CODE
IG	ISOLATED GROUND
JBOX	JUNCTION BOX
KW	KILOWATTS
KWH	KILOWATT-HOURS
LTG	LIGHTING
LV	LOW VOLTAGE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER

NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NL NIGHT-LIGHT
RECEPT RECEPTACLE
RTU ROOFTOP UNIT

RECEPT RECEPTACLE
RTU ROOFTOP UNIT
UNO UNLESS NOTED OTHERWISE
V VOLTS
XFMR TRANSFORMER

PANELBOARD: RP7

PANEL TYPE:

VOLTAGE: 208Y/120V / 3 Ø / 4W

BUS AMPS: 200 AMPS

SPECIAL:

MAIN DEVICE: 200 A MAIN CB

A.I.C. RATING: 10,000 AMPS SYMMETRICAL

LOAD DESCRIPTION	LTS	RCPTS	MTRS	OTHER	Р	BKR AMP		CIRCUIT		BK AMP		OTHER	MTRS	RCPTS	LTS	LOAD DESCRIPTION
ighting - Back of House	500				1	20 A	1		2	20 A	1				450	Lighting - Open Office
pare					1	20 A	3	<b></b>	4	20 A	1					Spare
pare					1	20 A	5		6	20 A	1					Spare
eceptacle - Open Office *		540			1	20 A	7		8	20 A	1			360		Receptacle - Open Office *
/indow Display *		600			1	20 A	9		10	20 A	1			360		Receptacle - Closing Rm 1*
rinter - Open Office *		600			1	20 A	11		12	40 A	1			3500		EWH-1
offee Maker *		600			1	20 A	13		14	20 A	1			180		Receptacle -Ex Toilet
licrowave *		1000			1	20 A	15		16	20 A	1			400		Ex EF
WH-2 *		3500			1	40 A	17		18				6004			
ridge *		600			1	20 A	19		20	70 A	3		6004			Ex RTU
hone*		180			1	20 A	21		22				6004			
ata *		180			1	20 A	23		24	20 A	1			600		Front Signage *
eceptacle Closing Rm 2*		180			1	20 A	25	]	26	20 A	1			360		Receptacle - Ex Panel
eceptacle - Ex Outer wall		180			1	20 A	27	Ī	28							
							29		30							
							31		32							
							33	]	34							
							35	]	36							
							37	7	38							

		35	30				
		37	38				
		39	40				
		41	42				
•							
LOAD CLASSIFICATION	CONNECTED	DEMAND FACTOR	CALCULATED	PANEL TOTALS			
Lighting	950 VA	125.00%	1188 VA	FARLE TOTALS			
Motor	18013 VA	100.00%	18013 VA	CONNECTED LOAD: 32883 VA			
Receptacle	13920 VA	85.92%	11960 VA	EST. DEMAND LOAD: 31160 VA			
				·			
				CONNECTED CURRENT: 91 A			
				EST. DEMAND CURRENT: 86 A			

\* INDICATES WORK DONE IN FUTURE PHASE OF PROJECT, AFTER LANDLORD'S WORK IS DONE.

LOCATION: Space 9

FED FROM:

**MOUNTING: SURFACE NEMA 1** 

FEEDER: SEE ONE-LINE DIAGRAM

MARINER FINANCE, LLC.

1902 - HOOD CENTER

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COA ENGINEER

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ISSUANCE

10/14/2022 LL/OWNER REVIEW

any liability associated with it where the

PROJECT NUMBER 85560046 PROJECT MANAGER J.J. POTTER

J.J. POTTER

PROFESSIONAL

K GROENENBOOM

DRAWN BY

R KENNEDY

R KENNEDY CHECKED BY K GROENENBOOM

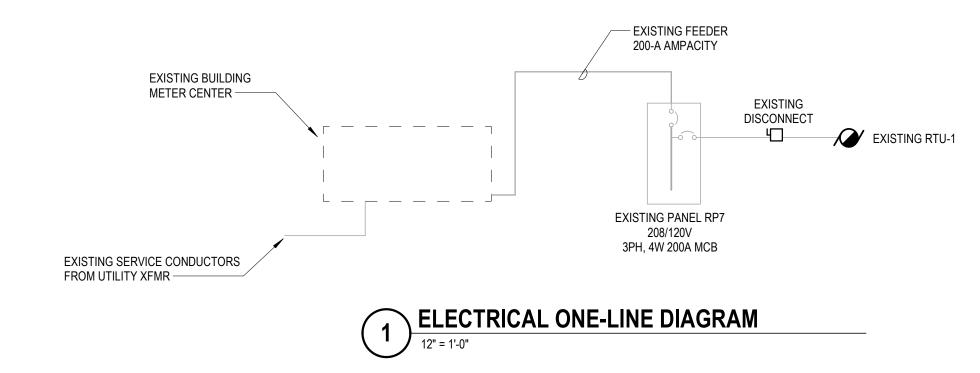
LANDLORD ELECTRICAL NOTES AND ABBREVIATIONS

REVIATIONS FΛ 1Δ

	LIGHTING SYMBOL LEGEND									
BACKBOX & RACEWAY BY	DEVICE BY	INSTALLED BY	WIRED BY	<u>SYMBOL</u>	E - ELECTRICAL CONTRACTOR M - MECHANICAL CONTRACTOR X - OTHERS  DESCRIPTION	HEIGHT TO MIDDLE OF DEVICE (U.N.O.)				
Е	Е	Е	Е	\$	SINGLE POLE SWITCH	46"				
Е	Е	Е	Е	3 \$	3-WAY SWITCH	46"				
Е	Е	Е	Е	\$	4-WAY SWITCH	46"				
Е	Е	Е	Е	D \$	DIMMER SWITCH	46"				
Е	Е	Е	Е	os \$	OCCUPANCY SENSOR SWITCH	46"				
Е	Е	Е	Е	(OS)	CEILING OCCUPANCY SENSOR - DUAL TECHNOLOGY TYPE					
Е	Е	Е	Е	LS	CEILING LIGHT LEVEL SENSOR					
Е	Е	Е	Е	PC	PHOTOCELL					
Е	Е	Е	Е	•—	POLE MOUNTED LIGHT (TYPE DENOTED)	PER SCHED				
Е	E	Е	E	Q 🛒	WALL MOUNTED LIGHT (TYPE DENOTED)	AS NOTED				
Е	Е	Е	Е	0	RECESSED LIGHT (TYPE DENOTED)					
Е	Е	Е	Е	X o	SURFACE LIGHT (TYPE DENOTED)					
Е	Е	Е	Е	P1 • • P2	SUSPENDED OR PENDANT LIGHT (TYPE DENOTED)					
Е	Е	Е	Е	<b>⊢</b>	INDUSTRIAL LIGHT (TYPE DENOTED)					
Е	Е	Е	Е		TRACK AND TRACK LIGHT (TYPES DENOTED)	AS NOTED				
Е	Е	Е	Е		EMERGENCY DOUBLE HEAD WALL LIGHT (TYPE DENOTED)	96"				
Е	E	Е	Е	<b>9 ●</b>	EXIT SIGN (TYPE DENOTED)					
Е	Е	Е	Е	9	LIGHT FIXTURE ON (EM) LIFE SAFETY OR CRITICAL BRANCH	AS NOTED				

					POWER SYMBOL LEGEND	
BACKBOX & RACEWAY BY	DEVICE BY	INSTALLED BY	WIRED BY	<u>SYMBOL</u>	E - ELECTRICAL CONTRACTOR M - MECHANICAL CONTRACTOR X - OTHERS  DESCRIPTION	HEIGHT TO MIDDLE OF DEVICE (U.N.O.)
Е	E	Е	Е	φ	SINGLE RECEPT ("EM" = EMERGENCY, "HG" = HOSPITAL GRADE, "TR" = TAMPER RES	ISTANT) 18"
Е	E	Е	Е	Φ	DUPLEX RECEPT ("EM" = EMERGENCY, "HG" = HOSPITAL GRADE, "U" = CONNECTED	ΓΟ UPS) 18"
Е	Е	Е	Е	<b>+</b>	GFCI RATED DUPLEX RECEPT	18"
Е	Е	Е	Е	•	ISOLATED GROUND DUPLEX RECEPT	18"
Е	Е	Е	Е	•	SWITCHED DUPLEX RECEPT (SPLIT-WIRE)	18"
Е	Е	Е	Е	•	ABOVE COUNTERTOP DUPLEX RECEPT, MOUNT 4" ABOVE BACKSPLASH OR 42"	
Е	Е	Е	Е	<b>+</b>	FOURPLEX RECEPT ("EM" = EMERGENCY, "HG" = HOSPITAL GRADE, "U" = CONNECTE	D TO UP:18"
E	Е	Е	Е		SPECIAL RECEPT OR CONNECTION, PROVIDE DIRECT POWER CONNECTION OR MATCHING RECEPTACLE AS REQUIRED, COORDINATE W/ EQUIPMENT MANUFACTURER	18"
Е	Е	Е	Е	0	CEILING RECEPT (DUPLEX SHOWN)	
Е	Х	Х	Х		JUNCTION BOX (FLOOR, WALL, CEILING SHOWN)	AS NOTED
Е	Е	Е	Е	42	SAFETY DISCONNECT SWITCH (FUSED)	72"
Е	Е	Е	Е	4	COMBO MOTOR STARTER/DISCONNECT SWITCH (FUSED)	72"
Е	E/M	E/M	Е	VFD	VARIABLE FREQUENCY DRIVE	
Е	E/M	E/M	Е	$\bigcirc$	SINGLE PHASE MOTOR (SEE SCHEDULE)	
Е	E/M	E/M	Е		THREE PHASE MOTOR (SEE SCHEDULE)	
Е	Е	Е	Е		CIRCUIT BREAKER PANEL	72"
Е	Е	Е	Е	T	TRANSFORMER (TYPE DENOTED)	

	WIRING SYMBOL LEGEND								
BACKBOX & _ RACEWAY BY	DEVICE BY	INSTALLED BY	WIRED BY	<u>SYMBOL</u>	E - ELECTRICAL CONTRACTOR M - MECHANICAL CONTRACTOR X - OTHERS  DESCRIPTION	HEIGHT TO MIDDLE OF DEVICE (U.N.O.)			
Е	Е	Е	Е		CONDUIT CONCEALED IN WALL OR OVERHEAD				
Е	Е	Е	Е		BRANCH CIRCUIT HOME RUN				
Е	Е	Е	Е	<i></i>	LOW VOLTAGE POWER WIRING				
Е	Е	Е	Е		UNDERGROUND ELECTRICAL				



### **GENERAL ELECTRICAL NOTES**

- 1. ELECTRICAL SERVICE FOR NEW LEASE SPACE IS EXISTING, RE: ELECTRICAL ONE-LINE DIAGRAM.
- 2. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NEC AND ALL
- APPLICALBE CODES. 3. ALL ELECTRICAL CIRCUITS SHALL BE CLEARLY LABELED ON THE ELECTRICAL PANEL
- SEE PANEL SCHEDULE ON SHEET E0.1 4. OUTLETS AND JUNCTION BOXES SHOWN INDICATE THE FINAL DESIRED LOCATION. SHOULD THEY ALREADY EXIST AS SHOWN AND MEET CURRENT APPLICABLE CODES

AND ADA, THEY WILL REMAIN CONNECTED IN CURRENT LOCATION. REPLACE

- EXISTING RECEPTACLE AND COVER PLATE WITH NEW. 5. RECEPTACLE SHALL BE MOUNTED AT 18" AFF TO CENTER UNLESS NOTED
- OTHERWISE OR REQUIRED BY CODE.
- 6. RECEPTACLES SITUATED IN THE SAME STUD CAVITY MUST BE PROPERLY INSULATED TO ATTENUATE SOUND. BACK TO BACK RECEPTACLES SHALL NOT BE ALLOWED.
- 7. SPACE GANG POWER TELEPHONE AND DATA OUTLETS AS CLOSE AS POSSIBLE AND IN NO CASE WIDER THAN 6" ON CENTER. 8. ALL ELECTRICAL CIRCUITS, CONDUIT AND MAESTRO LAN CABLE AND TELEPHONE
- CABLE SHALL RUN CONCEALED WITHIN WALL STUD CAVITIES, SURFACE MOUNTED WIREMOLD IS NOT ACCEPTABLE UNLESS AUTHORIZED BY MARINER FINANCIAL.
- 9. ELECTRICAL CONTRACTOR SHALL COMPLETELY COORDINATE ALL CONNECTIONS AND OVERCURRENT PROTECTION FOR ALL NEW MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
- 10. GENERAL CONTRACTOR SHOULD CONTACT ENGINEER FOR ANY AND ALL ENGINEERING REQUIRED TO PROPERLY SIZE ALL ELECTRICALWIRING, BREAKERS, ETC TO MEET ALL REQUIRED CODES.
- 11. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DATA AND VOICE CABLE, CABLE TO BE PLENUM RATED CAT6 WITH NO CONDUIT. DATA OUTLETS SHALL BE RJ45 FEMALE; CAT6 GROUND BUSS BAR TO BE MOUNTED AT IT PHONE BOARD. ELECTRICAL
- 12. DATA OUTLETS SHOWN INDICATE THE FINAL DESIRED LOCATION, SHOULD THEY ALREADY BE EXISTING, THEY SHALL BE REUSED.
- 13. TENANT SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH TELEPHONE COMPANY FOR SERVICE.
- 14. ELECTRICAL CONTRACTOR SHALL SET ALL WALL SWITCH OCCUPANCY SENSORS TO A 10 MINUTE OVERRIDE DELAY SHUTOFF.
- 15. ALL CONDUCTORS TO BE COPPER WITH THHN/THHN-2 INSULATION. #12 AWG
- MINIMUM SIZE (#10 MINIMUM SIZE FOR CIRCUIT LENGTHS GREATER THAN 75 FEET). 16. ALL WIRING TO BE IN EMT (1/2" MIN. SIZE) OR MC CABLE. EMT REQUIRED FOR HOME

CONTRACTOR TO TEST AND CERTIFY DATA AND VOICE ARE WORKING.

RUNS AND EXPOSED WORK.

#### 17. EC TO SUPPORT ALL LIGHT FIXTURES IN GRID BY ALL FOUR CORNERS WITH CABLE.

## **ELECTRICAL ABBREVIATIONS**

Α	AMPERES
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
С	CONDUIT
CB	CIRCUIT BREAKER
DET	DETAIL
DISC	DISCONNECT
DIST	DISTRIBUTION
EF	EXHAUST FAN
EM	EMERGENCY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FLA	FULL LOAD AMPS
IBC	INTERNATIONAL BUILDING CODE
IG	ISOLATED GROUND
JBOX	JUNCTION BOX
KW	KILOWATTS
KWH	KILOWATT-HOURS
LTG	LIGHTING
LV	LOW VOLTAGE
MCA	MINIMUM CIDCUIT AMDS

MINIMUM CIRCUIT AMPS MCB MAIN CIRCUIT BREAKER

NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NIGHT-LIGHT

RECEPTACLE **ROOFTOP UNIT** UNLESS NOTED OTHERWISE VOLTS

TRANSFORMER

# PANELBOARD: RP7

SPECIAL:

**MOUNTING: SURFACE NEMA 1** FEEDER: SEE ONE-LINE DIAGRAM

LOCATION: Space 9

FED FROM:

PANEL TYPE: **VOLTAGE**: 208Y/120V / 3 ø / 4W BUS AMPS: 200 AMPS MAIN DEVICE: 200 A MAIN CB A.I.C. RATING: 10,000 AMPS SYMMETRICAL

LOAD DESCRIPTION	LTS	RCPTS	MTRS	OTHER	Р	BKR AMP		CIRCUI	Г	BI AMP	KR P	OTHER	MTRS	RCPTS	LTS	LOAD DESCRIPTION
ighting - Back of House	500				1	20 A	1		2	20 A	1				450	Lighting - Open Office
Spare					1	20 A	3		4	20 A	1					Spare
Spare					1	20 A	5		. 6	20 A	1					Spare
Receptacle - Open Office		540			1	20 A	7		8	20 A	1			360		Receptacle - Open Office
Vindow Display		600			1	20 A	9		10	20 A	1			360		Receptacle - Closing Rm 1
Printer - Open Office		600			1	20 A	11		. 12	40 A	1			3500		EWH-1
Coffee Maker		600			1	20 A	13		14	20 A	1			180		Receptacle -Ex Toilet
Microwave		1000			1	20 A	15		16	20 A	1			400		Ex EF
EWH-2		3500			1	40 A	17		. 18				6004			
ridge		600			1	20 A	19		20	70 A	3		6004			Ex RTU
Phone		180			1	20 A	21		22	]			6004			
Data		180			1	20 A	23		. 24	20 A	1			600		Front Signage
Receptacle Closing Rm 2		180			1	20 A	25		26	20 A	1			360		Receptacle - Ex Panel
Receptacle - Ex Outer wall		180			1	20 A	27		28							
							29		30							
							31		32							
							33		34							
							35		36							
							37		38							
							39		40							
							41		42							
OAD CLASSIFICATION			CONNEC	TED		DEMAND	FACTO	R	CALC	JLATED				DA	NEL TO	
iahtina			OEO V	'Λ		10E (	<u>100/</u>		110	0 \ / /\	$\neg$			PA	NEL TO	IALS

950 VA 125.00% 1188 VA 18013 VA 100.00% 18013 VA CONNECTED LOAD: 32883 VA 13920 VA 85.92% 11960 VA EST. DEMAND LOAD: 31160 VA Receptacle CONNECTED CURRENT: 91 A EST. DEMAND CURRENT: 86 A

TENANT ELECTRICAL NOTES AND ABBREVIATIONS

E0.1B

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10/14/2022 LL/OWNER REVIEW

ISSUANCE

PROJECT NUMBER 85560046 PROJECT MANAGER J.J. POTTER PROFESSIONAL K GROENENBOOM DRAWN BY

R KENNEDY

CHECKED BY

K GROENENBOOM

CENTER

ARINER 902

COA ARCHITECT

COA ENGINEER

**GENERAL ELECTRICAL NOTES** 

- 1. ELECTRICAL SERVICE FOR NEW LEASE SPACE IS EXISTING, RE: ELECTRICAL ONE-LINE
- 2. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NEC AND ALL APPLICALBE CODES. 3. ALL ELECTRICAL CIRCUITS SHALL BE CLEARLY LABELED ON THE ELECTRICAL PANEL
- SEE PANEL SCHEDULE ON SHEET E0.1 4. OUTLETS AND JUNCTION BOXES SHOWN INDICATE THE FINAL DESIRED LOCATION. SHOULD THEY ALREADY EXIST AS SHOWN AND MEET CURRENT APPLICABLE CODES
- AND ADA, THEY WILL REMAIN CONNECTED IN CURRENT LOCATION. REPLACE EXISTING RECEPTACLE AND COVER PLATE WITH NEW.
- 5. RECEPTACLE SHALL BE MOUNTED AT 18" AFF TO CENTER UNLESS NOTED OTHERWISE OR REQUIRED BY CODE.
- 6. RECEPTACLES SITUATED IN THE SAME STUD CAVITY MUST BE PROPERLY INSULATED
- TO ATTENUATE SOUND. BACK TO BACK RECEPTACLES SHALL NOT BE ALLOWED. 7. SPACE GANG POWER TELEPHONE AND DATA OUTLETS AS CLOSE AS POSSIBLE AND
- IN NO CASE WIDER THAN 6" ON CENTER. 8. ALL ELECTRICAL CIRCUITS, CONDUIT AND MAESTRO LAN CABLE AND TELEPHONE CABLE SHALL RUN CONCEALED WITHIN WALL STUD CAVITIES, SURFACE MOUNTED
- WIREMOLD IS NOT ACCEPTABLE UNLESS AUTHORIZED BY MARINER FINANCIAL. 9. ELECTRICAL CONTRACTOR SHALL COMPLETELY COORDINATE ALL CONNECTIONS AND OVERCURRENT PROTECTION FOR ALL NEW MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
- 10. GENERAL CONTRACTOR SHOULD CONTACT ENGINEER FOR ANY AND ALL ENGINEERING REQUIRED TO PROPERLY SIZE ALL ELECTRICALWIRING, BREAKERS, ETC TO MEET ALL REQUIRED CODES.
- 11. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DATA AND VOICE CABLE, CABLE TO BE PLENUM RATED CAT6 WITH NO CONDUIT. DATA OUTLETS SHALL BE RJ45 FEMALE;
- CAT6 GROUND BUSS BAR TO BE MOUNTED AT IT PHONE BOARD. ELECTRICAL CONTRACTOR TO TEST AND CERTIFY DATA AND VOICE ARE WORKING. 12. DATA OUTLETS SHOWN INDICATE THE FINAL DESIRED LOCATION, SHOULD THEY
- 13. TENANT SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH TELEPHONE COMPANY FOR SERVICE.

ALREADY BE EXISTING, THEY SHALL BE REUSED.

- 14. ELECTRICAL CONTRACTOR SHALL SET ALL WALL SWITCH OCCUPANCY SENSORS TO A 10 MINUTE OVERRIDE DELAY SHUTOFF.
- 15. ALL CONDUCTORS TO BE COPPER WITH THHN/THHN-2 INSULATION. #12 AWG MINIMUM SIZE (#10 MINIMUM SIZE FOR CIRCUIT LENGTHS GREATER THAN 75 FEET). 16. ALL WIRING TO BE IN EMT (1/2" MIN. SIZE) OR MC CABLE. EMT REQUIRED FOR HOME
- RUNS AND EXPOSED WORK. 17. EC TO SUPPORT ALL LIGHT FIXTURES IN GRID BY ALL FOUR CORNERS WITH CABLE.

# **○ ELECTRICAL KEYNOTES**

- 1. ELECTRICAL CONTRACTOR SHALL CONNECT THE EMERGENCY BALLAST OF THIS FIXTURE AHEAD OF ALL CONTACTORS AND SWITCH CONTROL SO AS TO PROVIDE CONSTANT POWER TO THE EMERGENCY BALLAST UNTIL EVENT OF UTILITY POWER FAILURE. TYPICAL FOR ALL EMERGENCY FIXTURES.
- 2. NIGHT LIGHT FIXTURE TO BE WIRED AHEAD OF ANY LOCAL SWITCHES SO THAT LIGHT FIXTURE IS ALWAY ON.
- 3. SENSOR OR SWITCH STATION PART OF ROOM LIGHTING CONTROL SYSTEM. SEE
- LIGHTING CONTROL SCHEDULE ON SHEET E0.1. 4. COMBINATION 0-10V DIMMER AND WALL SWITCH STYLE OCCUPANCY SENSOR.
- 5. LUMINAIRE TO PART OF DAYLIGHT HARVESTING FUNCTION OF ROOM LIGHTING CONTROL SYSTEM - SEE LIGHTING CONTROL SCHEDULE ON SHEET E0.1.
- 6. LIGHTING ROOM CONTROLLER TO BE LUTRON OR CRESTRON. 7. A MINIMUM OF 30" WIDE BY 3'-0" DEEP CLEARANCE SHALL BE MAINTAINED FROM FRONT FACE OF ALL ELECTRICAL EQUIPMENT FOR SERVICING PER NEC ARTICLE

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ISSUANCE 10/14/2022 LL/OWNER REVIEW

PROJECT NUMBER 85560046

PROJECT MANAGER J.J. POTTER PROFESSIONAL K GROENENBOOM

DRAWN BY R KENNEDY

CHECKED BY K GROENENBOOM

LANDLORD ELECTRICAL PLANS E1.0A

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Space 5; Space 6; Space 7; Space 8;		·				•		***************************************	
Space 9; Space 10									



#### **GENERAL ELECTRICAL NOTES**

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- RUNS AND EXPOSED WORK. 17. EC TO SUPPORT ALL LIGHT FIXTURES IN GRID BY ALL FOUR CORNERS WITH CABLE.

#### **ELECTRICAL KEYNOTES**

- 1. LIGHT FIXTURE AND LIGHTING CONTROLS TO BE EXISTING TO REMAIN IN THIS ROOM. 2. COMBINATION 0-10V DIMMER AND WALL SWITCH STYLE OCCUPANCY SENSOR. EC TO REWIRE LIGHT FIXTURES IN THIS ROOM TO NEW SWITCH ON SAME CIRCUIT AS EXISTING.
- 3. EXISTING LUMINAIRE TO PART OF EXISTING DAYLIGHT HARVESTING FUNCTION OF ROOM LIGHTING CONTROL SYSTEM.
- 4. A MINIMUM OF 30" WIDE BY 3'-0" DEEP CLEARANCE SHALL BE MAINTAINED FROM FRONT FACE OF ALL ELECTRICAL EQUIPMENT FOR SERVICING PER NEC ARTICLE 110.26.
- 5. "SHOW WINDOW" RECEPTACLE MOUNTED IN CEILING PER NEC ARTICAL 210.62. EC TO
- PROVIDE IF NOT EXISTING. 6. CABLE FROM CENTER OF OFFICE TO BREAK ROOM FOR WIFI ROUTER.
- 7. CABLE FROM FRONT OF OFFICE TO BREAK ROOM FOR SECURITY CAMERA DATA CONNECTION; ELECTRICAL CONTRACTOR TO PROVIDE 20'-0" OF CABLE SLACK.; GENERAL CONTRACTOR TO COORDINATE FINAL CAMERA LOCATION WITH MARINER
- FINANCE REPRESENATIVE IN FIELD. 8. PROVIDE AND INSTALL NEW CAT6 GROUND BUSS BAR AT IT DATA PHONE BOARD.

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ISSUANCE 10/14/2022 LL/OWNER REVIEW

PROJECT NUMBER 85560046 PROJECT MANAGER J.J. POTTER PROFESSIONAL K GROENENBOOM

DRAWN BY R KENNEDY CHECKED BY K GROENENBOOM

TENANT ELECTRICAL

PLANS

#### Project Information

Energy Code: 90.1 (2019) Standard Mariner Finance - Gresham OR Project Title: Project Type: Alteration

Construction Site: 1625 NE Division Street Gresham, Oregon 97030 Owner/Agent: Darren Dickerhoof Dickerhoof Properties 777 NE 2nd Street Corvallis, Oregon 97330 541-754-3630 darren@dickerhoof.com

Designer/Contractor: Robert Kennedy Progressive Architecture Engineering & Planning II, LLC 1811 4 Mile Road Grand Rapids, Michigan 49525 616-36-2664 kennedyr@progressiveae.com

#### Allowed Interior Lighting Power

	A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Office		1490	0.64	954
		To	tal Allowed Watts =	954

**Proposed Interior Lighting Power** 

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture		(C X D)
Office (1490 sq.ft.)		 	- 10100

LED:	A1/A1E:	2x4	LEE

4W:	1	19	50	
	Tot	al Proposed	Watts =	

#### Interior Lighting PASSES Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist. 10/11/2022

Robert Kennedy - Designer

Project Title: Mariner Finance - Gresham OR Data filename:

Report date: 10/11/22 Page 1 of 5

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions	
9.4.1.3 [EL4] <sup>1</sup>	Separate lighting control devices for specific uses installed per approved	□Complies □Does Not		
	lighting plans.	□Not Observable □Not Applicable		
9.6.2 [EL8] <sup>1</sup>	Additional interior lighting power allowed for special functions per the	□Complies □Does Not	Requirement will be met.	
	approved lighting plans and is automatically controlled and separated from general lighting.	□Not Observable □Not Applicable		

Additional Comments/Assumptions:

Data filename:

COMcheck Software Version COMcheckWeb **Inspection Checklist** 

Energy Code: 90.1 (2019) Standard

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6] <sup>2</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
4.2.2, 9.4.3, 9.7 [PR4] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Data filename:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: Mariner Finance - Gresham OR Report date: 10/11/22

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16] <sup>3</sup>	Furnished as-built drawings for electric power systems within 30 days	□Complies □Does Not	Requirement will be met.
	of system acceptance.	□Not Observable □Not Applicable	
8.7.2 [FI17] <sup>3</sup>	Furnished O&M instructions for systems and equipment to the	□Complies □Does Not	Requirement will be met.
	building owner or designated representative.	□Not Observable □Not Applicable	
9.2.2.3 [FI18] <sup>1</sup>	Interior installed lamp and fixture lighting power is consistent with what	□Complies □Does Not	See the Interior Lighting fixture schedule for values.
	is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Not Observable □Not Applicable	
9.4.4 [FI20] <sup>1</sup>	At least 75% of all permanently installed lighting fixtures in dwelling	□Complies □Does Not	Exception: Requirement does not apply.
	units have >= 55 lm/W efficacy or a >= 45 lm/W total luminaire efficacy.	□Not Observable □Not Applicable	

Additional Comments/Assumptions:

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions		
8.4.2 [EL10] <sup>2</sup>	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.		
8.4.3 [EL11] <sup>2</sup>	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to to control system and displayed graphically.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.		
9.4.1.1 (EL1) <sup>2</sup>	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.		
9.4.1.1a (EL2) <sup>2</sup>	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.		
9.4.1.1b [EL26] <sup>2</sup>	No lighting shall be automatically turned on - restriced to manual.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.		
9.4.1.1c [EL27] <sup>2</sup>	<= 50% of general lighting power shall be allowed to be automatically turned on.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.		
9.4.1.1d [EL28] <sup>2</sup>	Bilevel lighting control - <= 50% of general lighting controlled with one intermediate step between full off and full on.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.		
9.4.1.1e [EL29] <sup>2</sup>	Automatic daylight responsive controls for sidelighting >= 150 watts controlled by photocontrols.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.		
9.4.1.1f [EL30] <sup>2</sup>	Automatic daylight responsive controls for toplighting >= 150 watts controlled by photocontrols.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.		
9.4.1.1g [EL31] <sup>2</sup>	Automatic partial OFF: lighting shall be reduced >= 50% within 20 minutes of zero occupancy.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.		
9.4.1.1h (EL32) <sup>2</sup>	Automatic full OFF: lighting shall be shut off within 20 minutes of zero occupancy.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.		
9.4.1.1i Scheduled shutoff: all lighting shall be EL33] <sup>2</sup> shut off when scheduled to be unoccupied.		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.		

Project Title: Mariner Finance - Gresham OR Report date: 10/11/22 Data filename: Page 3 of 5

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PROJECT NUMBER 85560046 PROJECT MANAGER J.J. POTTER PROFESSIONAL K GROENENBOOM DRAWN BY R KENNEDY CHECKED BY K GROENENBOOM

ENERGY COMPLIANCE **E5.1A** 

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Mariner Finance - Gresham OR

Report date: 10/11/22 Page 4 of 5 Project Title: Mariner Finance - Gresham OR

Data filename:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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