



CHANGE ORDER

Construction for
New Start Center of Everett
1602 SE Everett Mall Way
Everett, WA 98208

Contract # PW-24-027SB
Dated: November 2024

CO Number: 03
Date: 13 May 2025

Contractor:
Marpac Construction LLC
1225 S. Weller Street; Suite 500
Seattle, WA 98144

The Contract is changed as follows:


Pursuant to part 17 of the General Conditions the contractor shall:		
Add a wall unit heater to a previously unheated space for freeze protection. Air pressure test to determine the location of leaks in the water lines. Drywall demo and repairs associated with the heater and air pressure test.		
Material	Contract Sum Adjustment	Contract Schedule Adjustment
Wall Unit Heater	\$2,408.17	0 days
Pressure Test	\$3,205.00	0 days
Drywall Demo	\$157.92	0 days
Drywall Repair	\$310.64	0 days
OH&P and Taxes	\$959.19	0 days
Total	\$7,040.92	0 days

Original Contract Sum	\$4,040,000.00
Change to Contract Sum by Previous Change Orders to date	\$83,932.72
Change to Contract Sum by this Change Order	\$7,040.92
New Contract Sum	\$4,130,973.64

All Contract Sums are exclusive of sale tax.

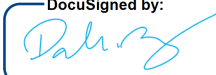
The Contract Completion Time shall be unchanged.

The Change Order shall not be valid until signed by the Owner and Contractor.

Contractor:
By:  Digitally signed by Wilson Deaton
DN: C=US,
E=wilsond@marpac.net,
CN=Wilson Deaton
Date: 2025.05.13
11:43:58-07'00'

Wilson Deaton - Project
Manager

Printed Name, Title
Date: 5/13/2025
Marpac Construction LLC

Consultant:
By:  DocuSigned by:
272527FB842B440...

Dan Murray
Principal in the Firm
Printed Name, Title
Date: 5/13/2025
DLR Group

Owner:
By: _____
Ken Klein
Executive Director
Printed Name, Title
Date: _____
Snohomish County



Marpac Construction LLC 1225 S. Weller St., Suite 500
Seattle, Washington 98144
Phone: (206) 329- 4992

PCO #006

Project: 24-09 – New Start Everett
6201 SE Everett Mall Way
Everett, Washington 98208

Prime Contract Potential Change Order #006: Added wall heater / Pressure Test

TO: Snohomish County
3000 Rockefeller Ave, MS 507
Everett, Washington 98201

FROM: Marpac Construction
1225 S Weller Street Suite 500
Seattle, Washington 98144

PCO NUMBER/REVISION: 006 / 0
STATUS: Pending – In Preview
SCHEDULE IMPACT: 0 days
EXECUTED: No

CONTRACT: New Start Everett
CREATED DATE: 5/12/2025

POTENTIAL CHANGE ORDER TITLE: Added wall heater / Pressure Test

CHANGE REASON: Existing Condition

POTENTIAL CHANGE ORDER DESCRIPTION: *(The Contract Is Changed As Follows)*

Cost to add wall heater per architect request and pressure test BLDG B water lines per plumber recommendation. Any abatement to be billed T&M per COP #2.

#	Budget Code		Description	Qty	Units	Unit Cost		Subtotal
1	26	10 00	Added Wall Heaters	1	Ea	\$ 2,408.17		\$ 2,408.17
2	22	10 00	Water Line Pressure Test	1	Ea	\$ 3,205.00		\$ 3,205.00
3	09	29 00	GWB Repair	4	Hrs	\$ 77.66		\$ 310.64
4	02	21 00	GWB Demo	2	Hrs	\$ 78.96		\$ 157.92
							Subtotal	\$ 6,081.73
						OH&P: 15%		\$ 912.26
						B&O Tax: .671%		\$ 46.93
							Grand Total	\$ 7,040.92



CHANGE ORDER PROPOSAL

To: Marpac

Job #:SWP-063

Attn: Wilson Deaton

Date: 5/11/2025

Project: New Start Everett

COP #: 02

Subject: Domestic water test

We request a change order for the following work proposed/performed on this project:

Description:

Scope of Work: Prepare domestic water piping system for pressure test. Several Angle stops were blown off the ends of the domestic water fixture supply lines during a freezing situation the system incurred. Install new angle stops, temp connection between hot and cold water, set up test manifold, and test system. If pressure test does not hold, we will inspect the entire system to attempt to find any leaks present. After the test is complete, remove temp connection between hot and cold water piping. Price does not include any repairs to leaks that are detected except for the initial angle stop replacements.

TOTAL COST:

\$3,205

- Awaiting written direction to proceed with this work
- Work performed during regular hours unless noted otherwise

Scott Hamilton | Project Manager | Estimator

P: 253-883-1836 E: scott@sw-morgan.com
2522 N Proctor St. Box #2, Tacoma, WA 98406

COP#: 2

CHANGE ORDER WORKSHEET



Date: 5/11/2025 Job #: SWP-057

Work Description: Domestic water pressure test

Labor hrs: 16 Labor rate: \$ 115.00 = \$ 1,840

Estimating hrs: 1 Labor rate: \$ 115.00 = \$ 115

Delivery hrs: 3 Labor rate: \$ 75.00 = \$ 225

Total labor cost = \$ 2,180

Material: = \$ 323

15% OH & P = \$ 702

Total change order: = \$ 3,205



SYSTEM SOLUTIONS OF WASHINGTON
PO Box
LYNNWOOD, WA 98036
OFFICE: 425.249.
FAX: 425.249.
SYSTEMSOLUTIONSWA

COP Subcontractor Breakdown Summary

PROJECT NAME: New Start EverettSSW COP No. 4

Architects Tracking number :

Project No: _____

Date: 5/6/25Company Name: System Solutions of Washington Inc.Rev:
Revised:DESCRIPTION: RFI 11 Add additional Heater.

EXCLUSIONS: Standard contract exclusions, CUT, PATCH, PAINT

	HRS	RATE	
1. CRAFT LABOR COSTS			
a. Electrician	2.5	125.00	\$ 312.50
b. Lead electrician	2.5	150.00	\$ 375.00
c. Electrician OT	0.0	187.5	\$ -
d. Lead Electrician OT	0.0	225.0	\$ -
e. PM	1.0	150.00	\$ 150.00
f. site survey	1.0	150.00	\$ 150.00
DIRECT LABOR SUBTOTAL			\$ 987.50
Direct costs			
g. truck	0	8.37	\$ -
h. travel (if applicable, itemize and provide backup)			\$ -
2. MATERIALS COSTS			
a. material costs			\$ 425.61
b. Airfreight			
c. Quoted materials			\$ 650.00 Heater
d. Quoted materials			\$ -
3. EQUIPMENT COSTS			
a. owned equipment	small tool		\$ -
b. rental equipment	Lift		\$ -
4. INSURANCE			
a. Insurance			\$ -
5. PERMIT			\$ -
6. FEE LABOR	15%		
FEE MATERIALS	15%		
FEE EQUIPMENT	15%		
FEE INSURANCE & PERMIT	15%		
7. SUB-SUBCONTRACTORS			
a. _____			\$ -
8. FEE on Subcontractor	15%		
9. Subtotal Sub			
10. Sub TOTAL			
11. B&O			
a. 1.5%			
12. TOTAL			
13. Time impact because of change of scope as noted above			
Please add days to contract			

1. CRAFT LABOR COSTS: \$ 987.50

2. MATERIAL COSTS: \$ 1,075.61

3. EQUIPMENT COSTS: \$ -

4. INSURANCE: \$ -

5. PERMIT: \$ -

6. FEE \$ 148.13

\$ 161.34

\$ -

\$ -

Sub Total w/fee \$ 2,372.58

7. SUB-SUBCONTRACTORS: \$ -

8. FEE on Subcontractor \$ -

9. Sub contractor w/fee \$ -

10. Sub TOTAL \$ 2,372.58

11. B&O \$ 35.59

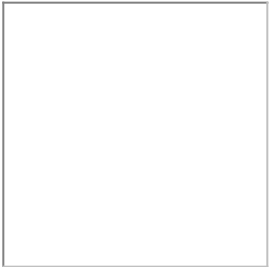
12. TOTAL \$ 2,408.17

1.0 DAYS

Description	Quantity	DB Labor	Labor	Total Material	Total Hours
1 3/4" CONDUIT - EMT	25	3.2	3.2	64.1	0.8
2 3/4" CONN SS STL - EMT	2	10	10	6.32	0.2
3 3/4" COUPLING SS STL - EMT	3	4	4	11.14	0.12
4 3/4" 1-H STRAP - EMT - STEEL	4	5.4	5.4	2.85	0.22
5 1/2" FLEX - ALUMINUM	10	3	3	11.79	0.3
6 1/2" CONN FLEX DC SQUEEZE STRAIGHT	1	10	10	1.69	0.1
7 #12 THHN BLACK	119	5.15	5.15	135.81	0.61
8 1-H CABLE STRAP	3	2	2	0	0.06
9 4x 1 1/2" SQ BOX COMB KO	1	23	23	13.47	0.23
10 4" SQ BLANK COVER	1	2.5	2.5	5.01	0.03
11 1 7/8" DEEP HANDY BOX 1/2" KO	1	22	22	11.56	0.22
12 HANDY BOX TGL SW COVER	1	2.5	2.5	4.33	0.03
13 #8 TO #10x 7/8 PLAS ANCHOR (3/16)	6	6	6	0.26	0.36
14 #8x 1 P/H SELF-TAP SCREW	5	2.8	2.8	0.77	0.14
15 #10x 1 P/H SELF-TAP SCREW	6	3	3	1.22	0.18
16 15A 120V S/P SW - TOGGLE IVY (GP) L/ GRD	1	12	12	1.54	0.12
17 20A 2P BREAKER BOLT-ON	1	0.25	0.25	153.75	0.25
18 #12/2C + GRD MOTOR TERM	1	0.49	0.49	0	0.49
19 #12 WIRE POWER TERM	6	0.09	0.09	0	0.54
				425.61	5

RFI detail

#11 Added Heaters



Status	<div><div></div>Closed</div>
Created on	Mar 28, 2025 by Moustapha Mbaye (Marpac Construction LLC)
RFI type	Default RFI workflow
Ball in court	Moustapha Mbaye (Marpac Construction LLC)
Answered	Apr 3, 2025 by Mia Miranda (DLR)

Question

Hello Dan/Mia,

Can you please confirm if there is need to add wall heaters in the electrical and mechanical rooms . if so can you please provide plans/layout & specs for the heaters.

Official response

Mia Miranda (DLR): Please see uploaded PDF response, which includes, but may not be limited to, the following comments:

Wall units heaters not required in electrical rooms in building A. Add electric wall heater in room "251 Electrical" in Building B, Area E. Provide Qmark CWH1202DSF 750W from submittal 238239-001. Locate heater on external wall on the North side of the electrical room.

By Mia Miranda (DLR) - Apr 3, 2025, 3:09 PM PDT

Official response attachments







[EV_RFI 011 ADDED HEATERS_DLR GROUP RESPONSE.PDF](#), Apr 3, 2025, 3:09 PM PDT

Impact

Cost impact	-
Schedule impact	-

Other attributes

Priority	Normal
Discipline	Mechanical, Electrical
Category	-
Location	-
Location details	-
External id	-
Co-reviewer(s)	

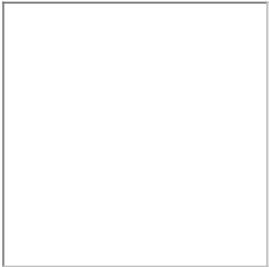
Activities	By	At
Moustapha Mbaye changed the status from  Open Answered to  Closed Official response: Mia Miranda (DLR): Please see uploaded PDF response, which includes, but may not be limited to, the following comments: Wall units heaters not required in electrical rooms in building A. Add electric wall heater in room "251 Electrical" in Building B, Area E. Provide Qmark CWH1202DSF 750W from submittal 238239-001. Locate heater on external wall on the North side of the electrical room. changed the official response attachment to: EV_RFI 011 ADDED HEATERS_DLR GROUP RESPONSE.PDF . changed the watchers to Wilson Deaton (Marpac Construction LLC), amber campbell (System Solutions)	Moustapha Mbaye	Apr 3, 2025, 4:08 PM PDT
Mia Miranda changed the status from  Open In Review to  Open Answered set Ball in court to Moustapha Mbaye (Marpac Construction LLC)	Mia Miranda	Apr 3, 2025, 3:09 PM PDT
Mia Miranda added a response: Please see uploaded PDF response, which includes, but may not be limited to, the following comments: Wall units heaters not required in electrical rooms in building A. Add electric wall heater in room "251 Electrical" in Building B, Area E. Provide Qmark CWH1202DSF 750W from submittal 238239-001. Locate heater on external wall on the North side of the electrical room. added the response attachment to: EV_RFI 011 ADDED HEATERS_DLR GROUP RESPONSE.PDF .	Mia Miranda	Apr 3, 2025, 3:09 PM PDT
set Ball in court to Mia Miranda (DLR)	Moustapha Mbaye	Apr 3, 2025, 9:38 AM PDT
Moustapha Mbaye removed a reference to a Sheet	Moustapha Mbaye	Mar 28, 2025, 8:53 AM PDT
Moustapha Mbaye added a reference to a Sheet	Moustapha Mbaye	Mar 28, 2025, 8:50 AM PDT
changed the question to <i>Hello Dan/Mia, Can you please confirm if there is need to add wall heaters in the electrical and mechanical rooms . if so can you please provide plans/layout & specs for the heaters.</i>	Moustapha Mbaye	Mar 28, 2025, 8:49 AM PDT
changed the question to <i>Hello Dan/Mia, Can you please confirm if there is need to add wall heaters at building A in the electrical and mechanical rooms . if so can you please provide plans/layout & specs for the heaters.</i>	Moustapha Mbaye	Mar 28, 2025, 8:49 AM PDT
Moustapha Mbaye changed the status from  Draft to  Open In Review changed the due date to Apr 9, 2025 set Ball in court to Dan Murray (DLR), Mia Miranda (DLR)	Moustapha Mbaye	Mar 28, 2025, 8:22 AM PDT

changed the **ID** to 11

changed the question to <i>Hello Dan/Mia, Can you please confirm if there is need to add wall heaters in the electrical and mechanical rooms . if so can you please provide plans/layout & specs for the heaters.</i>	Moustapha Mbaye	Mar 28, 2025, 8:21 AM PDT
changed the question to <i>Hello Dan/Mia, Can you please confirm if there is need to add wall heaters in the electrical and mechanical rooms . if so can you please provide plans, specs for the heaters.</i>	Moustapha Mbaye	Mar 28, 2025, 8:18 AM PDT
changed the question to <i>Hello Dan/Mia, Can you please confirm if there is need to add wall heaters in the electrical rooms and . if so can you please provide plans, specs for the heaters.</i>	Moustapha Mbaye	Mar 28, 2025, 8:09 AM PDT
Moustapha Mbaye (Marpac Construction LLC) created this RFI in Draft status and set Ball in court to Moustapha Mbaye (Marpac Construction LLC).	Moustapha Mbaye	Mar 28, 2025, 8:01 AM PDT

RFI detail

#11 Added Heaters



Status	<div><div></div>Open</div> In Review
Created on	Mar 28, 2025 by Moustapha Mbaye (Marpac Construction LLC)
RFI type	Default RFI workflow
Ball in court	Mia Miranda (DLR) Dan Murray (DLR)
Due date	Apr 10, 2025

Question

Hello Dan/Mia,

Can you please confirm if there is need to add wall heaters in the electrical and mechanical rooms . if so can you please provide plans/layout & specs for the heaters.




Impact

Cost impact	-
Schedule impact	-

Other attributes

Priority	Normal
Discipline	Mechanical, Electrical
Category	-
Location	-
Location details	-
External id	-

Co-reviewer(s)

Activities	By	At
Moustapha Mbaye removed a reference to a Sheet	Moustapha Mbaye	Mar 28, 2025, 8:53 AM PDT
Moustapha Mbaye added a reference to a Sheet	Moustapha Mbaye	Mar 28, 2025, 8:50 AM PDT
changed the question to <i>Hello Dan/Mia, Can you please confirm if there is need to add wall heaters in the electrical and mechanical rooms . if so can you please provide plans/layout & specs for the heaters.</i>	Moustapha Mbaye	Mar 28, 2025, 8:49 AM PDT
changed the question to <i>Hello Dan/Mia, Can you please confirm if there is need to add wall heaters at building A in the electrical and mechanical rooms . if so can you please provide plans/layout & specs for the heaters.</i>	Moustapha Mbaye	Mar 28, 2025, 8:49 AM PDT
Moustapha Mbaye changed the status from  Draft to  Open In Review changed the due date to Apr 9, 2025 set Ball in court to Dan Murray (DLR), Mia Miranda (DLR) changed the ID to 11	Moustapha Mbaye	Mar 28, 2025, 8:22 AM PDT
changed the question to <i>Hello Dan/Mia, Can you please confirm if there is need to add wall heaters in the electrical and mechanical rooms . if so can you please provide plans/layout & specs for the heaters.</i>	Moustapha Mbaye	Mar 28, 2025, 8:21 AM PDT
changed the question to <i>Hello Dan/Mia, Can you please confirm if there is need to add wall heaters in the electrical and mechanical rooms . if so can you please provide plans, specs for the heaters.</i>	Moustapha Mbaye	Mar 28, 2025, 8:18 AM PDT
changed the question to <i>Hello Dan/Mia, Can you please confirm if there is need to add wall heaters in the electrical rooms and . if so can you please provide plans, specs for the heaters.</i>	Moustapha Mbaye	Mar 28, 2025, 8:09 AM PDT
Moustapha Mbaye (Marpac Construction LLC) created this RFI in  Draft status and set Ball in court to Moustapha Mbaye (Marpac Construction LLC).	Moustapha Mbaye	Mar 28, 2025, 8:01 AM PDT

[David Connell, DLR Group]

Wall units heaters not required in electrical rooms in building A. Add electric wall heater in room "251 Electrical" in Building B, Area E. Provide Qmark CWH1202DSF 750W from submittal 238239-001. Locate heater on external wall on the North side of the electrical room.

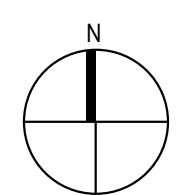
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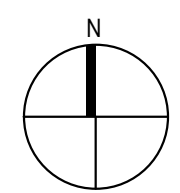
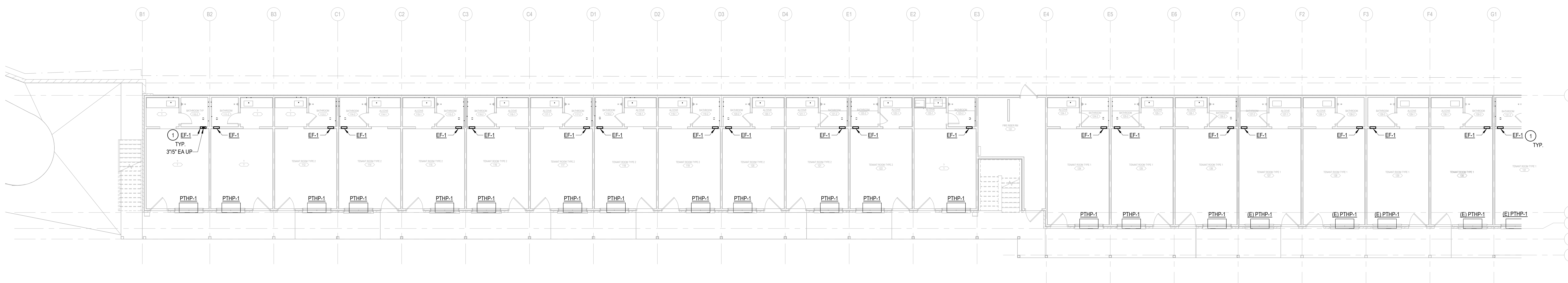
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AREAS B-F - LEVEL 02 HVAC PLAN

SCALE: 1/8" = 1'-0"



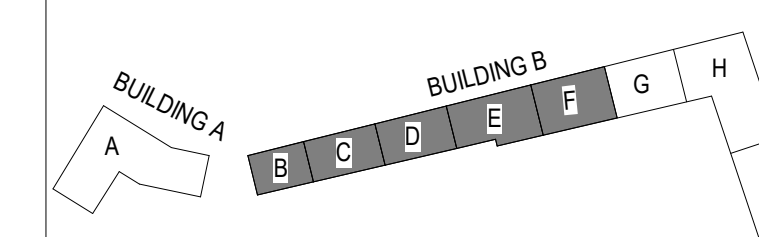
AREAS B-F - LEVEL 01 HVAC PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES

1. INSTALL NEW EXHAUST FAN IN EXISTING OPENING. MODIFY EXISTING OPENING AS REQUIRED FOR INSTALLATION. EXHAUST FAN SHALL BE CONTROLLED BY LIGHT SWITCH. CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO ORDERING AND CONFIRM FAN IS COMPATIBLE WITH EXISTING CONDITIONS.
2. ROUTE EXHAUST DUCT UP TO ROOF AND TERMINATE WITH GOOSENECK. REMOVE AND REPAIR CEILINGWALLS AS REQUIRED FOR DUCTWORK INSTALLATION. SEE AR FOR MORE DETAIL.

KEY PLAN



DocuSign Envelope ID: C3F64B4C-A93A-4E30-BD9F-82D1C1461412

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Autodesk Docs: /73-24120-00_Snoco Housing New Start Centers -Everett/73-24120-00_Snoco Housing New Start Everett_EL_2024.rvt
4/3/2025 10:49:56 AM

LUMINAIRE SCHEDULE																	
LUMINAIRE CRITERIA			PRODUCT INFORMATION					SOURCE			ELECTRICAL INFORMATION				ADDITIONAL INFORMATION		
ID	DESCRIPTION	FINISH	MANUFACTURER	MODEL OR SERIES	LAMP	LUMENS	FT	COLOR TEMP	CRI	LIFE RATING	DIMMING TYPE	VOLTAGE	WATTAGE	FT	MOUNTING	ACCESSORIES	SCHEDULE NOTES
RD1	4-IN ROUND DOWNLIGHT WET-LOCATION LISTED	MATTE WHITE	COOPER LIGHTING	HALO COMMERCIAL H2DQCLSS10CSD	LED	1,000		2700 K	90 MIN.		0-10V	UNV	10.7 MAX		RECESSED		
FL3	UNDERCABINET LIGHTING 30" LENGTH X 4" WIDTH X 1" DEPTH ELECTRONICALLY CONNECTING MULTIPLE FIXTURES	WHITE	LITHONIA LIGHTING	JUNO UPLD 30N SWWH 90CRI WH	LED	1,105		3000 K	90 MIN.	50,000 HR @L80	120V 60HZ	UNV	15.3 MAX		UNDERCABINET	PART OF ALTERNATE BID SET	
RD2	7-IN DOWNLIGHT JUNO SLIMFORM™ LED IC RATED LED NEW CONSTRUCTION JUNCTION BOX SURFACE MOUNT DOWNLIGHT	WHITE	JUNO	ICUB JSFSQ 7IN 10LM SWWH 90CRI 120 FROP WH JSPMTGFLT	LED	1,000		2400 K	90 MIN.		0-10V	UNV	13 MAX		RECESSED		
FL1-E	HVSL4 FAIL-SAFE 4" WIDE 17" LONG EL10W-10W EMERGENCY PACK	MATTE WHITE	COOPER LIGHTING	HVSL4-1-LD4-1STD-3A-UNV-O-EDC1	LED	1,425		3000 K	80 MIN.		0-10V TO 10%	UNV	11.6		SURFACE		EMB310 90 MIN EMERGENCY BATTERY PACK, SELF CONTAINED 0°C (32°F) TO 55°C (131°F) 1200 LUMENS
FL2	SURFACE LINEAR - 1' X 4' CURVED, SMOOTH DIFFUSER	WHITE	LITHONIA LIGHTING	BLTX4 20L ASDM 120 E21 LP840	LED	2,000		4000 K	82 MIN.		0-10V TO 10%	UNV	30 MAX		SURFACE		
RL1	VOLUMETRIC RECESSED LIGHTING 2'x2' CURVED, SMOOTH DIFFUSER	WHITE	LITHONIA LIGHTING	2BLT2 20L ADP 120 E21 LP835	LED	2,000		3500 K	82 MIN.		0-10V TO 10%	UNV	26.67		RECESSED		
PL1	CURVED, SMOOTH DIFFUSER	SHADE FINISH: OCEAN BLUE FIXTURE FINISH: MATTE BLACK	CEDAR AND MOSS	LEXI	LED	550		2700 K	80 MIN.		0-10V 1%	120	60 MAX		PENDANT		
WL1	CONTEMPORARY SQUARE VANITY ACRYLIC WHITE DIFFUSER 24"	WHITE	LITHONIA LIGHTING	FMVSL 24IN MVCLT 20K 90 CRI BN	LED	1,300		3000 K	90 MIN.	50,000 HOURS	0-10V	UNV	26 MAX		WALL		
GENERAL NOTES: FIXTURE MANUFACTURERS ARE LISTED ALPHABETICALLY AND NOT ACCORDING TO BASIS OF DESIGN. PROVIDE UNITS MEETING FIXTURE SCHEDULE DESCRIPTION AND SPECIFICATION REQUIREMENTS. THE FIXTURE CATALOG NUMBER IS NOT COMPLETE. USE ONLY AS A GUIDELINE. LUMEN VALUES IN KEY PARAMETERS COLUMN ARE MINIMUM DELIVERED LUMENS, INCLUDING OPTIONS AND ACCESSORIES. DELIVERED LUMENS SHALL NOT EXCEED 25% OF VALUES LISTED OR 25% OF VALUE IF RANGE IS LISTED. ALL FIXTURES SHALL BE PAINTED AFTER FABRICATION.							ABBREVIATIONS: AC: ALTERNATING CURRENT. C.C: CEILING. CR: COLOR RENDERING INDEX. ED: EMERGENCY TRANSFER DEVICE. FC: FOOT-CANDLES. FT: FOOT. INC: INCANDESCENT. LPW: LUMEN PER WATT. M.H: MOUNTING HEIGHT. MTD: MOUNTED. O.C: ON-CENTER. PAF: PAINT AFTER FABRICATION. SAH: SURFACE-TO-MOUNT-HEIGHT RATIO. UNV: UNIVERSAL VOLTAGE. VA: VOLT-AMPS. W: WITH. W/O: WITHOUT.										
SCHEDULE NOTES: CIRCUIT FOR CONTINUOUS POWER UNLESS NOTED OTHERWISE (DO NOT TAP OFF SWITCH/LEGS). WALL OR CEILING MOUNT AS INDICATED ON PLANS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. WALL MOUNTING HEIGHT SHALL BE 6" ABOVE TOP OF ADJACENT DOOR FRAME OR 7'-10" WHERE NO DOOR OR SOFFIT IS BELOW SIGN, UNLESS NOTED OTHERWISE ON DRAWINGS. SEE LIGHTING CONTROL DETAILS AND/OR SCHEDULES (WHERE APPLICABLE) FOR CONTROL REQUIREMENTS. POLE BASE COVER FINISH TO MATCH POLE AND FIXTURE HEADS. PEDestal (PREFERRED) OR STANCHION MOUNT ON CONCRETE BASE PER MANUFACTURER'S RECOMMENDATION. PROVIDE MOUNTING HARDWARE AS REQUIRED TO RIGIDLY PENDANT MOUNT FIXTURE ACCORDING TO MANUFACTURER RECOMMENDATIONS. MOUNT SUCH THAT BOTTOM OF FIXTURE = BOTTOM OF JOISTS. NO HOOKS. LOCATE REMOTE DRIVER (IF REQUIRED) IN NEAREST ACCESSIBLE PLENUM SPACE. DEVICE MUST BE PLENUM-RATED OR IN NEMA 1 ENCLOSURE. LABEL DEVICE OR ENCLOSURE ACCORDING TO LOAD SERVED (I.E. "DISPLAY CASE"). DALI/DMAX TUNABLE DRIVER IS ACCEPTABLE. PROVIDE COMPATIBLE TUNABLE DIMMING CONTROL DEVICE IN LIEU OF SWITCH TYPES INDICATED ON PLANS. COORDINATE DEVICE ROUGH-IN.																	

MECHANICAL CONNECTIONS SCHEDULE									
Equipment Serves	Electrical Data	MCA	MOC	Panel	Circuit Number	Disconnecting Means	Feeder	Schedule Notes	Comments
EP-1	208 V3-748 VA	5.0 A	20.0 A	R1	4,5	60A FUSED DISCONNECT	2#12, #12G, 3/4" C		
EUH-1	208 V2-748 VA	5.0 A	20.0 A	R3	27,29	MOTOR RATED SWITCH	2#12, #12G, 3/4" C		ROOM 204
EUH-2	208 V2-748 VA	5.0 A	20.0 A	R3	27,29	MOTOR RATED SWITCH	2#12, #12G, 3/4" C		ROOM 251
EUH-3	208 V2-748 VA	5.0 A	20.0 A	R3	27,29	MOTOR RATED SWITCH	2#12, #12G, 3/4" C		
IU-2	120 V1-33 VA	0.4 A	15.0 A	M1	5	MOTOR RATED SWITCH	2#12, #12G, 3/4" C		
OAP-1	208 V2-1400 VA	8.0 A	15.0 A	D3	43,45	MOTOR RATED SWITCH	2#12, #12G, 3/4" C		
OAP-2	208 V2-1400 VA	8.0 A	15.0 A	R3	25,30	MOTOR RATED SWITCH	2#12, #12G, 3/4" C		
QU-1	208 V2-3527 VA	23.0 A	40.0 A	M1	1,3	40A NON FUSED DISCONNECT	2#6, #6G, 3/4" C	1	
QU-2	208 V3-15159 VA	52.6 A	60.0 A	D3	47,49,51	60A FUSED DISCONNECT	3#4, #10G, 1" C	1	
WH-1	208 V3-14770 VA	51.3 A	60.0 A	M1	37,39,41	60A FUSED DISCONNECT	3#4, #10G, 1" C	1	
WH-2	208 V3-14770 VA	51.3 A	60.0 A	M1	20,22,24	60A FUSED DISCONNECT	3#4, #10G, 1" C		

GENERAL MECHANICAL EQUIPMENT CONNECTION NOTES:
A. THE ABOVE INFORMATION IS FOR SPECIFIC MANUFACTURER. THE ACTUAL MANUFACTURER FOR THE EQUIPMENT MAY DIFFER. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR ACTUAL LOADS, CIRCUIT AMPACITY, AND OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO MAKING ELECTRICAL CONNECTIONS.
B. LOCATE ALL DISCONNECTING MEANS PER NEC AND AHJ REQUIREMENTS. STARTERS ARE SEPARATELY MOUNTED UNLESS OTHERWISE NOTED.
C. ALL DISCONNECTS ARE 3-POLE UNLESS OTHERWISE NOTED.
D. ELECTRICAL CONTRACTOR TO COORDINATE WITH DIV 23 FOR ANY BMS CONTROL WIRING CONDUITS REQUIRED FOR EQUIPMENT CONNECTIONS.

MECHANICAL SCHEDULE NOTES:
1. EXTERIOR UNIT, DISCONNECT TO BE NEMA-3R RATED.

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SWITCHBOARD: MSB-1										
LOCATION: STORAGE 402					VOLTAGE: 208Y/120					
BUS RATING: 1200.0 A					PHASES: 3					
MAIN BREAKER: 1200/3					WIRES: 4					
					SCCR: 42000					
CKT	CIRCUIT DESCRIPTION				BKR TRIP	P	BKR TYPE	LOAD TYPE	Load	NOTES
1	R1				200.0 A	3		Spare...	24	
2	R2				200.0 A	3		Other...	39	
3	M1, M2				200.0 A	3		Spare...	87	
4	D3				400.0 A	3		Spare...	102	
5	R3				200.0 A	3		Spare...	49	
6										
7										
8										
9										
10										
11										
12										
TOTAL LOAD:									301 kVA	
TOTAL AMPS:									836 A	
LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND D...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES			BKR TYPE	PANEL TOTALS	
L	LIGHTING	1977 VA	100.00%	1977 VA	CONTINUOUS LOAD @ 125%			G = GFCI (5mA)		
R	RECEPTACLES	54630 VA	59.15%	32315 VA	FIRST 10kVA @ 100%, REMAINDER @ 50%			GP = GFCI (30mA)	CONNECTED LOAD: 301 kVA	
K	KITCHEN	2000 VA	80.00%	1600 VA	NON-DWELLING KITCHEN EQUIPMENT, NEC ART. 220			ST = SHUNT TRIP	ESTIMATED DEMAND: 262 kVA	
M	MOTOR	24399 VA	115.53%	28169 VA	LARGEST MOTOR, NEC ART. 430			LO = LOCK OUT	CONNECTED CURRENT: 836 A	
C	COOLING	0 VA	0.00%	0 VA					EMD CURRENT: 783.2 A	
H	HEATING	49000 VA	100.00%	49000 VA						
O	OTHER	141200 VA	100.00%	141200 VA						
Spare	SPARE	27805 VA	100.00%	27805 VA						
NOTES:										

PANEL: R3														
LOCATION: ELECTRICAL ROOM 251 BUS RATING: 225 A MAIN BREAKER: 200					VOLTS: 208Y/120 PHASES: 3 WIRES: 4 SCCR: 10000			MOUNTING: SURFACE FED FROM: MSB-1 INTEGRAL SPD: LUG ACCESSORIES: SEE ONE-LINE						
CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	BKR TYPE	LOAD TYPE	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)	LOAD TYPE	BKR TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	
1	MICROWAVE/FRIDGE - 124 (NEW)	20	1	O	1,800	1,800			O	1	20		MICROWAVE/FRIDGE - 224 (NEW)	
2	MICROWAVE/FRIDGE - 125 (NEW)	20	1	O		1,800	1,800		O	1	20		MICROWAVE/FRIDGE - 225 (NEW)	
3	MICROWAVE/FRIDGE - 126 (NEW)	20	1	O				1,800	1,800	O	1	20	MICROWAVE/FRIDGE - 226 (NEW)	
4	MICROWAVE/FRIDGE - 127 (NEW)	20	1	O	1,800	1,800			O	1	20		MICROWAVE/FRIDGE - 227 (NEW)	
5	MICROWAVE/FRIDGE - 128 (NEW)	20	1	O			1,800	1,800	O	1	20		MICROWAVE/FRIDGE - 228 (NEW)	
6	MICROWAVE/FRIDGE - 129 (NEW)	20	1	O				1,800	1,800	O	1	20		MICROWAVE/FRIDGE - 229 (NEW)
7	MICROWAVE/FRIDGE - 130 (NEW)	20	1	O	1,800	1,800			O	1	20		MICROWAVE/FRIDGE - 230 (NEW)	
8	MICROWAVE/FRIDGE - 131 (NEW)	20	1	O			1,800	1,800	O	1	20		MICROWAVE/FRIDGE - 231 (NEW)	
9	MICROWAVE/FRIDGE - 132 (NEW)	20	1	O				1,800	1,800	O	1	20		MICROWAVE/FRIDGE - 232 (NEW)
10	MICROWAVE/FRIDGE - 133 (NEW)	20	1	O	1,800	1,800			O	1	20		MICROWAVE/FRIDGE - 233 (NEW)	
11	MICROWAVE/FRIDGE - 134 (NEW)	20	1	O			1,800	1,800	O	1	20		MICROWAVE/FRIDGE - 234 (NEW)	
12	MICROWAVE/FRIDGE - 135 (NEW)	20	1	O				1,800	1,800	R	1	20		MICROWAVE/FRIDGE - 235 (NEW)
13	MICROWAVE/FRIDGE - 136 (NEW)	20	1	O	1,800	1,800			R	1	20		MICROWAVE/FRIDGE - 236 (NEW)	
14	MICROWAVE/FRIDGE - 137 (NEW)	20	1	O	1,800	1,800			R	1	20		MICROWAVE/FRIDGE - 237 (NEW)	
15	MICROWAVE/FRIDGE - 138 (NEW)	20	1	O			300	700	M	2	20		DAP-2	
16	LEAK (MTR, RM 251)	20	1	Spare					Spare	1	20		SPARE	
17	SPARE	20	1	Spare					Spare	1	20		SPARE	
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