

ADDENDUM

Date Issued:	Dec 4, 2020			
Project:	Intermountain Healthcare Intermountain Logan Regional Hospital – Sleep Lab 1350 North 500 East Logan, UT 84341			
Addendum Number:	2			
The Contractors submitting proposals on the above-captioned project shall be governed by the				

following addendum, changes and explanations to the drawings and specifications and shall submit their bids in accordance therewith.

ltem Number	General Items Description
1	Bid Date: Wednesday Dec 9th by 4:00pm
2	Schedule of Values: Thursday Dec 10 by 4:00pm
3	See attached updated Bid Form
4	See attached Preferred Pricing and Vendors as well as the Responsibility Matrix per the Intermountain design guidelines.
5	The owner has requested that no plans be provided to Plan Rooms. Plans shall be made available only through the General Contractor requesting bids from subcontractors. Any General Contractor bids submitted utilizing subcontractor bids with documents from plan rooms will be rejected. Intermountain will also not allow unsolicited sub contractor bids. Only bids solicited by the General Contractor will be allowed.
6	Questions by contractors and their response:
	Question #1: What is the type membrane material and manufacturer of the existing roofing systems. Does the existing roof have a warranty? Response: The Sleep Lab which is going to be in 'Suite R' and the adjacent Suites 'Q' and 'S' were recently reroofed. The new roof is a 60 Mil thick TPO roof. The manufacturer is Versico roofing systems and the product is VersiWeld. The roof is mechanically fastened and a ½" thick EPS fanfold recovery board was installed between the wood deck and the roof membrane. The roofing contractor was Zane Rust with Mt. Peak Roofing in Logan. E-Mail: zane@mtpeakroofing.com Phone: (435) 787 4174
	Attached is the warranty and care/maintenance information for this root.
	Question # 2: Is the sleep lab floor substrate for the tile to be wood/plywood? Are there going to be recesses for the shower floors to be floated?
	Response: In the sleep Lab the floor substrate for tile to be cement backer board. The existing substrate is plywood. We have called out for this substrate to be removed and replaced with cement backer board. See hatched area on Demo Floor Plan Sheet A110



ltem Number	General Items Description
	(Keyed Note 2.63). We have also called out for new plywood under the cement board in between the floor joists to increase the subfloor thickness to avoid tile cracking. Also noted on Sheet A112 (Keyed Note 9.29). Due to crawl space under the Sleep Lab, we have not called out for this floor to be recessed but we are now specifying a rapid recess system to achieve the required slope to drain. See attached cutsheets.
	Question #3: Need info of conduit / conductor from new Logan City transformer to metering bank. Also need location of existing unit "S" panel. Response: Allow for #42 on the conductor and conduit schedule; however, final installation will need to be verified with Logan Power in the field. The location of panel "S" in the adjacent space is not definitively known but is within 60 linear feet of the corner of the suite adjacent to the suite in which most work will be conducted.
	Question #4: ETC001 refers to basket tray. There is no basket tray on the plans. Is this project using just j-hooks? Response: J-hooks will be used in the sleep lab; cable tray is in the scope of work for ASC.
	Question #5: EYC101: Need to know location of VSS & ASC Response: Data Closet A121
	Question #6: ELC101: Drawing ELC101 shows a ceiling fan to be an add alternate. The said fan is not on the fixture schedule. Can you please give some direction. Response: Please include the fan as part of the base bid. The fan to be Haiku L, 44 in as manufactured by Delta T LLC, dba Big Ass Fans. Specs attached.
	Question #7: Are the following items owner furnished? (Sleep Lab) Time Clock in break room 10.20/A112, (Sleep Lab) wall mounted monitor brackets 11.18 A112, (ASC) Nurse charting station, ASC) Physiological monitor, is there a list per space that calls out owner furnished items vs. contractor furnished? Is there a legend or schedule to accompany ASC sheet A149A?
	Response: As part of this addendum, I am going to include the equipment list to provide a better understanding of owner furnished items. I have also included the responsibility Matrix per Intermountain design guidelines. Due to files size, the equipment list and cutsheets will be in the same folder as the drawings and specs.
	Question #8: Please confirm that typical wall heights are 10' or less. This does not include fire rated walls that extend into the crawl space. Response: No, they are not. The bottom of the joists is level at +/- 8'-0". The top cord of the roof joists slopes about 16 inches from north to south. North being the high point. Please reference structural Sheet SF 102. As you can see that there is a ridge in the middle on Grid 2. The joists are 24" at the ridge and 32" at the north end and 16" at the south end/Grid 3.
	Question #9: Would it be acceptable to add additional rows to this schedule of values with our bid if we feel it adds additional clarity or should we adhere strictly to the rows provided? Response: Yes, that should be fine.



ltem Number	General Items Description
	Question #10: A112: Note 07.01 calls for installing new r-30 insulation at the underside of the existing floor structure. Is there any existing insulation here that needs to be removed? Can you confirm the crawl space is 2' clear or less? Response: Yes, there is existing batt insulation, but this is falling apart, and we want to remove all existing insulation and replace with new. Existing insulation is called out to be removed on keynote 2.18 on sheet A110. I am not 100% sure on the clearance in the crawl space but it appears to be at-least 2 feet. This will need to be field verified. See attached picture for reference.
	Photo from crawl space under Suite R looking west/towards Suite Q Aussion #11: Can you tell please tell us who currently maintains the landscaping and irrigation at the Sleep lab building?
	Response: Bryon Brunson 435-770-3309. Outside contractor, works for the condo association.

Question #12: Data comm details show conduit stubbed into cable tray but ceiling is hard lid. Plan does not call out cable tray locations. This issue affects all AV systems. Wiring can be pulled prior to ceiling installation but once the ceiling is installed, modifications will be very difficult without damage.

Response: This is understood with hard ceilings; in some location's conduits have been provided in the plans.



ltem Number	General Items Description
	Question #13: Fire Alarm routing for Sleep lab is not shown, where is the existing fire alarm control panel?
	Response: This will be located in the housekeeping closet.
	Question #14: No circuiting for lighting is shown. Response: The branch circuit will connect to panel SL1.
	Question #15: In room A121 there is are references to panel Q. Where is this panel located?
	Response: In existing adjacent suite within 50 linear feet of data closet.
	Question #16: Sleep Lab fixture G-2 are for lay in ceilings, can you suggest an alternate for this fixture or should this be provided with a flange kit?
	Question #17: Where is the head end equipment located for the access control and security items? Response: Locate in new data closet.
	Question #18: Sheet SF102 calls out detail C\$/SF501 as typical. This detail calls for an added 2x8 blocking between the joists at roof level. Is this required for the entire length of the building or just at certain conditions? Response: The blocking required between joist per detail C4/SF501, not full building length.
	Question #19: Note 02.60 on Sheet A110 says to remove all supply and return air grills, are these in the floor? If so, they don't show up to be repaired on sheet SF102. Response: Yes, these are in the floor. Updated keynote 2.60 to include patching of subfloor.
	Question #20: The plans call to extend the 1-hr fire wall into the crawl space on grid lines A and G. I see that grid line A has a footing and foundation that we will be able to build on, but what would we do at grid line G? Response: See structural drawings for detail of wall/footing along gridline 'G' in crawl space.
	Question #21: Can you provide additional information for the sleep lab lighting controls? Specifically relay panel information Response: There is no relay panel; a time clock is provided on the lighting plans.

Sheet Number	Drawings		
Architectural Drawings			
G005	Added note 'T' to the general notes on sheet G005 per city comments.		



Sheet Number	Drawings
A110	Updated keynote # 2.60 to patch openings after removal of floor grills.
A112	 a. Added wall mounted drinking fountain in waiting area per department of health comments. Also see electrical and plumbing drawings. b. Added keynote # 8.23 for signage on door to be provided and installed by contractor. This was also requested by the department of health. c. Added rapid recess system at all shower areas. See keyed note 9.32 and attached generic cutsheets for the rapid recess system
A114	Revised ceiling in med gas room to a 1-HR rated ceiling per Logan city comments.
A116	Added solid surface threshold at shower areas.
A504A	Revised detail 6/A504 to update ceiling in med gas storage room.
A603A	Added detail 7 for shower area with threshold and rapid recess system.
A502B	Head condition details at top track shown on Sheet A502B represent a concrete suspended slab condition with metal deck. For our Sleep Lab we have plywood roof sheathing and wood joists. Please reference structural detail A3/SF501. This is a detail for stud wall connection at the existing floor deck but will be similar the head condition except with a slotted top track as shown on detail 9/A502B
Structural Dr	awings
	See attached structural addendum.
Mechanical	Drawings
	See attached mechanical addendum.
Electrical Dr	awings
	See attached electrical addendum.

Specification Section	Project Manual
Sections	
23 34 00	Added spec section for HVAC fans

Attachments:

Bid Form Responsibility Matrix Preferred Pricing and Vendors Sleep Lab Existing Roof Warranty, Care and Maintenance Instruction. Rapid Recess system generic details Architectural Drawings: G005, A110, A112, A116, A504A, and A603A Specification Section: 23 34 00 Structural, Mechanical and Electrical Addendums

BID FORM

- TO: Shannon Brown Email: <u>Shannon.Brown@imail.org</u>
- PROJECT: Intermountain Healthcare LRH Campus Reconfiguration Sleep Lab 550 East, 1400 North, Suite R Logan, UT 84341

NAME OF BIDDER: _____

BIDDER ADDRESS: _____

DATE:_____

The undersigned, in compliance with your Invitation To Bid, having examined the Drawings and Specifications (Contract Documents) and related documents and the site of the proposed work and being familiar with all of the conditions surrounding the construction of the proposed project, including the availability of labor, hereby propose to furnish all labor, materials, services, equipment and appliances required in connection with or incidental to the construction of the above named project in strict conformance with the following specification and drawings:

Bidding and Contract Requirements, Intermountain Healthcare General Conditions, Specification Divisions as shown and all applicable addenda and Drawings as listed on the drawing cover sheets as prepared by NJRA Architects.

I/We certify, by signing this BID FORM, that I/We have a working relationship with the proposed subcontractors and that Bids we're not solicited from; and/or the received Contract Documents were not listed in any Plan Rooms for distribution to subcontractors broadly.

BASE BID – for the Logan Regional Hospital, Sleep Lab Project for Intermountain Healthcare:

For Work of the contract listed above and shown on the Drawings and described in the Project Manual, I/We agree to perform for the sum of:

_____Dollars (\$_____)

(In the case of discrepancy, written amount shall govern)

CONTRACTOR'S PROPOSED CONSTRUCTION TIME PERIOD:

This Bid requires a construction time in **calendar days** from the date of authorization of

calendar days. The anticipated date of Substantial Completion is thus _____, 20____,

The above Bid includes ______ winter weather delay days.

ALTERNATES:

None

ADDENDA:

I/We acknowledge receipt of the following addenda for the above noted project:

Addendum #01: Nov 24, 2020 (29 pages) Addendum #02: Dec 4, 2020 (73 pages)

TYPE OF ORGANIZATION:

(Corporation, Partnership, Individual, etc.)

SEAL (If a Corporation)

Respectfully Submitted,

Name of Bidder

Authorized Signature



RESPONSIBILITY MATRIX

The following list identifies the majority of the items that are to be included in the capital project build-out. All Owner items need to be coordinated with A/E (Design Team), Contractor and Owner (Facility Design & Construction and Supply Chain Equipment Planners). For OFOI or OFCI items, Contractor is required to track equipment on construction schedule and to notify Owner of required delivery times taking into account for equipment lead times.

ITEM OWNER/VENDOR		NOTES		ADDITIONAL NOTES	
OFOI - (Owner Furnished / Owner Installed)	(Coordinate location of item	s with Owner and track within construction schedule)	Data	Power	Backing
Art	Owner / Owner (Alpine Art)	All artwork to be coordinated with Dan Kohler. Provide power to required artwork.			
Brochure Racks	Owner / Owner Contractor to provide proper backing.				
Chart Racks	Owner / Owner (Midwest)	Contractor to provide proper backing.			
Copiers, fax	Owner / Owner	A/E to locate where copy/fax/printer is not visual clutter.	Yes	Yes	
Evan Tables				Vec	
Systems Furniture (including demountable partitions)	Owner / Owner (Midwest & Steelcase) Coordinate modesty panels with elec. outlets. Sit/Stand desks to have modesty panel on front. Attention to be given to cord management. A/E to coordinate data and power with Midwest.		Yes	Yes	
Receptionist Desk	Owner / Owner (Midwest & Steelcase)				
Moveable Metal Shelving	Owner / Owner				
Recliners / Draw Chairs	Owner / Owner				
Signage - Exterior	Owner / Owner (IG Group, YESCO) Provide power and data to required exterior signage. Provide circuits for above ceiling signs. Coordinate thru-wall conduit sleeves with weather barrier. A/E to coordinate traffic signage and Contractor to install. Intermountain Logo Signs - (2) 20A Circuits - May vary. InstaCare and other Signs - (1) 20 A Circuits - May vary.		Yes	Yes	Yes
Signage - Interior (including Code Signage)	Owner / Owner (Scribbley, Hightech)	Provide power to required signage. Contractor to track in schedule and notify Owner for when Code Required signage is required to be installed.			
Radiology Equipment	Owner / Owner (See subject matter expert list)	A/E responsible to coordinate final site equipment drawings into Construction Documents from Owner's Vendor.	Yes	Yes	
Clinical Garbage Cans (Clinical, Office, PT, Etc.)	Owner / Owner				
Computers, Printers, Scanners, Keyboards, Mice, etc.	Owner / Owner	In-ceiling & wall mounts, conduits and boxes mounted by Contractor. Computers to be All-in-One, typ. in IMG exam rooms.	Yes	Yes	Yes
Televisions, Digital Projectors, similar devices, etc.	Owner / Owner	These items to be provided by Owner, but A/E to coordinate locations and infrastructure. Contractor to refer to OFCI section.	Yes	Yes	Yes
Keyboard Trays	Owner / Owner				
PACS	Owner / Owner				
Magnetic Marker Boards, Cork Boards, Huddle Boards, Idea Tracking Boards, etc.	Owner / Owner (Midwest)	A/E to coordinate location with Owner.			Yes
Emergency Evacuation Medical Sled (Med Sled)	Owner / Owner	A/E to coordinate location with Owner.			Vee
Supply Alea Palleis	Owner / Owner	Contractor to provide proper backing, coordinate with Owner.			Tes
Audio/Video (A/V)	Owner / Owner	Intermountain SCO will source & supply the A/V system including specialized cabling (e.g. HDMI, etc). Refer to CFCI section for Contractor requirements. A/E to identify locations on drawings, coordinate with Owner. Contractor to provide infrastructure, back boxes, conduits, pathways and cabling (from wall side back).		Yes	
Nurse Notification Call (NNC) System & Devices (Hospital Campus)	Owner / Owner (Hill-Rom)	Hospital local facility team to work with Supply Chain Facility Equipment Planning team to contract directly with Nurse Notification Call (NNC) system vendor (Hill-Rom) for devices, equipment, monitors, etc. A/E to identify NNC locations on drawings, coordinate with Owner. Contractor to provide all infrastructure including conduits, back boxes, etc. for all NNC devices (e.g. RCB, GSR-10, etc.). The NNC system cabling will be by Hill-Rom including home-run cabling (Hill-Rom to coordinate, where required, with an Intermountain Siemon certified installer low voltage subcontractor to install home-run network connected cabling). The NNC system cabling device to device cabling is by Hill-Rom.	Yes	Yes	
Staff Assist Notification Call System & Devices (Medical Group Clinics on hospital campuses to match NNC system)	Owner / Owner (Hill-Rom)	Hospital local facility/IMG Ops team to work with Supply Chain Facility Equipment Planning team to contract directly with Staff Assist Notification Call system vendor (Hill-Rom) for devices, equipment, monitors, etc. (from wall side out). Staff Assist Notification system to be coordinated with Hospital Campus NNC system, as applicable, Medical Group Strategic Planner, and IMG Operations Officer. A/E to identify locations on drawings, coordinate with Owner. Contractor to provide all infrastructure including conduits, back boxes, etc. for all NNC and Staff Assist Notification Call devices (e.g. RCB, GSR-10, etc.). The NNC and Staff Assist Notification Call system cabling will be by Hill-Rom including home-run cabling (Hill-Rom to coordinate, where required, with an Intermountain Siemon certified installer low voltage subcontractor to install home-run network connected cabling). The NNC and Staff Assist Notification Call system device to device cabling is by Hill-Rom.	Yes	Yes	

IMG O Plannii system (from v Coordii Officer Owner / Owner (Hill-Rom) Owner / Owner (Hill-Rom) Coordii cabling coordii install& coordii coordi		IMG Ops team to work with Supply Chain Facility Equipment Planning team to contract directly with Staff Assist Notification Call system vendor (Hill-Rom) for devices, equipment, monitors, etc. (from wall side out). Staff Assist Notification system to be coordinated with Medical Group Strategic Planner and Operations Officer. A/E to identify locations on drawings, coordinate with Owner. Contractor to provide all infrastructure including conduits, back boxes, etc. for all Staff Assist Notification Call devices (e.g. RCB, GSR-10, etc.). The Staff Assist Notification Call system cabling will be by Hill-Rom including home-run cabling (Hill-Rom to coordinate, where required, with an Intermountain Siemon certified installer low voltage subcontractor to install home-run network connected cabling). The Staff Assist Notification Call system device to device cabling is by Hill-Rom.	Yes	Yes	
Patient Monitoring System & Devices (Hospital Campus)	Owner / Owner	Hospital local facilities to work with Supply Chain Facility Equipment Planning team to contract directly with Patient Monitoring vendors for devices, equipment, monitors, etc. (from wall side out). A/E to identify locations on drawings, coordinate with Owner. Contractor to provide all infrastructure including conduits, back boxes, and home-run cabling from Patient Monitoring devices to TEC/TDR rooms that connect to Intermountain's network (Intermountain Siemon certified installer low voltage subcontractor to install). The Patient Monitoring system device to device cabling is by Vendor.		Yes	
IV Hangar	Owner / Owner	A/E to identify locations on drawings, coordinate with Owner. Backing to be coordinated, if required.			
Sharps Disposal Container	Owner / Owner (Stericycle)	A/E to identify locations on drawings, coordinate with Owner. Backing to be coordinated, if required.			
Infant/Pediatric Security System	Owner / Owner (Totguard)	A/E to identify locations on drawings. This system is to be coordianted with Owner, Women's and Children's Operations, Clinical Programs and Security.	Yes	Yes	
OFCI - (Owner Furnished / Contractor Installed)	(Coordinate location of iten	ns with Owner and track within construction schedule)	Data	Power	Backing
Automated External Defibrillator (AED)	Owner / Contractor	A/E to identify locations on drawings, coordinate with Owner, A/E to coordinate recess, semi-recessed, or surface mount options with Owner.			Yes
Time Clocks	Owner / Contractor	Conduit and boxes by Contractor, Coordinate location with Owner.	Yes	Yes	
Paper Towel Dispensers	Owner / Contractor	A/E to identify locations on drawings, coordinate with Owner.			
Soap Dispensers Toilet Paper Dispensers	Owner / Contractor Owner / Contractor	A/E to identify locations on drawings, coordinate with Owner. A/E to identify locations on drawings, coordinate with Owner.			
Diaper Changing Station Hand Sanitizer Dispensers (Avagard)	Owner / Contractor Owner / Contractor	A/E to identify locations on drawings, coordinate with Owner. A/E to identify locations on drawings, coordinate with Owner.			Yes
Diagnostic Board (Otoscope / Ophthalmoscope)	Owner / Contractor	A/E to identify locations on drawings, coordinate with Owner.		Yes	
Stadiometers, Recessed Scales	Owner / Contractor	A/E to identify locations on drawings, coordinate with Owner;		Yes	
Procedure Lights	A/E to coordinate power. A/E to coordinate with Owner and Owner's selected equipment Vendor; A/E to identify locations on drawings, coordinate with Owner / Contractor Owner; A/E to coordinate the design of the procedure light support structure into drawings. Contractor to provide and install procedure			Yes	Yes
Scrub Sinks & Carriers	ks & Carriers Owner / Contractor Contractor Contractor to coordinate with Owner for ordering and for install coordination.				Yes
IV Track	Owner / Contractor	A/E to identify locations on drawings, coordinate with Owner.			Yes
Boom Mounting Plates (Equipment, Lighting, Anesthesia)	Owner / Contractor	Backing to be coordinated, if required. A/E to coordinate with Owner and Owner's selected equipment Vendor; A/E to identify boom locations on drawings, coordinate with Owner; A/E to coordinate the design of the boom support structure into drawings. Final site specific equipment drawings from Vendor to be coordinated with Construction Documents. Contractor to coordinate with Owner and install boom support structure and boom mounting plates. Contractor to coordinate with Owner for ordering and install of boom mounting plates.		Yes	Yes
OR Clocks	Owner / Contractor	A/E to identify locations on drawings, coordinate with Owner. Contractor to coordinate with Owner for ordering and install coordination.	Yes	Yes	Yes
Clinical Clocks	Owner / Contractor	A/E to identify locations on drawings, coordinate with Owner. Contractor to coordinate with Owner for ordering and install coordination.		Yes	Yes
Digital Projector Mounts, TV Mounts, & Computer Mounts (Ergotron Brackets/Mounts, etc.)	Owner / Contractor	A/E to identify locations on drawings, coordinate with Owner. Contractor to coordinate with Owner for ordering and install coordination. In-ceiling & wall mounts, conduits and boxes provide and installed by Contractor A/E to coordinate A/V requirements. Contractor to pull required A/V cabling.	Yes	Yes	Yes
Radiation Protection Calculations and Certification	Owner / Contractor	A/E to coordinate with Owner in the design phase for coordinating with Medical Physicists Consultants or others, when required. Contractor to coordinate prior to Gyp. Bd. install.			Yes
Patient Lifts	Owner (Liko, subsidiary of Hill-Rom) / Contractor	A/E to identify locations on drawings, coordinate with Owner. A/E to design required support structure for Contractor to install for necessary Liko patient lift connections (e.g. pendant / rails / etc). Contractor to coordinate shop drawings and installation requirements prior with Liko. Connect to equipment branch if provided		Yes	
Building Alarms / Medication Refrigerator Alarm / Pharmacy Alarm System	Owner / Contractor	A/E to identify locations and infrastructure on drawings, coordinate with Owner. Contractor to provide conduit and infrastructure into accessible ceiling for access from equipment and/or devices. Local Facility to contract with alarm company for alarm, wire, and monitoring.		Yes	

UPS (MRI, Data Room, CPU, or other similar equipment)	Owner / Contractor	A/E to identify equipment locations on drawings, coordinate with Owner	Yes	Yes	Yes
iCentra Tracking Boards	Owner / Contractor A/E to identify locations on drawings, coordinate with Owner.		Yes	Yes	Yes
Distributed Antenna System (DAS)	Owner (Hunt Electric) / Contractor	A/E to locate infrastructure on drawings to simplify the DAS install. Contractor to track on construction schedule and coordinate DAS install with Owner's Vendor.			
Alertus - Mass Notification System (Public Areas)	Owner (Alertus) / Contractor	A/E to identify locations on drawings, coordinate with Owner.	Yes	Yes	
CFCI - (Contractor Furnished / Contractor Installed)			Data	Power	Backing
Blinds/Shades (manual and powered)	Contractor / Contractor	A/E to identify locations on drawings, coordinate with Owner.	Data	Yes	Duoking
Apron Hooks/Rack (Heavy Duty in Radiology)	Contractor / Contractor	A/E to identify locations on drawings, coordinate with Owner.			Yes
Communication Boards (e.g. Patient Rooms)	Contractor / Contractor	A/E to identify locations on drawings, coordinate with Owner.			Yes
Emergency Phones, Kiosks - Exterior	Contractor / Contractor	A/E to identify locations on drawings, coordinate with Owner.	Yes	Yes	Yes
Med Gas Certification	Contractor / Contractor	Contractor to coordinate Vendor with Owner			
Emergency Shower Station / Eye Wash Station	Contractor / Contractor	A/E to identify locations on drawings, coordinate with Owner. These shall meet ANSI and Owner requirements.			
Fire Extinguishers	Contractor / Contractor	A/E to identify types and locations on drawings, coordinate with Owner. 10 lbs. minimum - refer to Intermountain Design Guidelines & Construction Standards.			Yes
Grab Bars (Rest rooms, Radiology, Exam rooms, etc.)	Contractor / Contractor	A/E to identify locations on drawings.			Yes
Coat Hooks (Rest rooms/Showers, Exam rooms,	Contractor / Contractor	A/E to identify locations on drawings.			
Offices/Workstations only) Mirrors (Rest rooms, Exams, Radiology, Rebab, etc.)	Contractor / Contractor	A/E to identify locations on drawings, coordinate with Owner			Yes
Pneumatic Tube Systems	Contractor / Contractor (SwissLog, Atreo Group, or other approved)	A/E to identify locations on drawings, coordinate with Owner. If SwissLog, verify pricing is per Intalere (Amerinet) Contract Agreement. Design assistance fees are included in this agreement.	Yes	Yes	100
Plumbing Shrouds Security Cameras, Video Surveillance	Contractor / Contractor	A/E to identify locations on drawings, coordinate with Owner	Ves		
Voice/Data Cabling (all horizontal cabling)	Contractor / Contractor (Apriadot)/Convergint) Contractor / Contractor (Cache Valley Elec., IES Commercial, Data Tech Professionals, Hunt Electric, and others listed in Intermountain Div. 27)	Refer to Derinity locations on drawings, coordinate with Owner. Refer to Division 27 in the Intermountain Design Guidelines and Construction Standards. Coordinate with Owner/User on connections, pairs of fiber/copper, conduits, inner-ducts, etc.	Yes		
Support Bracing/Structure for Radiology and similar equipment	Contractor / Contractor	A/E to coordinate with Owner and Owner's selected Radiology equipment Vendor; A/E to coordinate the design of the support bracing/structure into drawings. Final site specific equipment drawings from Vendor to be coordinated with Construction Documents. Contractor to coordinate with Owner for install of		Yes	Yes
Wall Protection (Incl. Bumper and Corner Guards)	Contractor / Contractor	A/E to identify locations on drawings, coordinate with Owner.			
Intrusion Detection	Contractor / Contractor	A/E to identify locations on drawings, coordinate with Owner.			
Access Control, Card Readers (Lenel)	Contractor / Contractor (AlphaCorp/Convergint)	A/E to identify locations on drawings, coordinate with Owner.			
TV System Distribution	Contractor / Contractor	A/E to identify locations on drawings, coordinate with Owner.			
Audio/Video (A/V)	Contractor / Contractor	Intermountain SCO will source & supply the A/V system including specialized cabling (e.g. HDMI, etc). A/E to identify locations on drawings, coordinate with Owner. Contractor to provide infrastructure, back boxes, conduits, pathways and misc. cabling (from wall side back).		Yes	
Nurse Notification Call (NNC) System - Low Voltage Cabling (Hospital Campus)	rse Notification Call (NNC) System - Low Voltage Cabling spital Campus) Contractor / Contractor (Hill-Rom) A/E to identify NNC locations on drawings, coordinate with Owner. Contractor to provide all infrastructure including conduits, back boxes, etc. for all NNC devices (e.g. RCB, GSR-10, etc.). The NNC system cabling will be by Hill-Rom including home-run cabling (Hill-Rom to coordinate, where required, with an Intermountain Siemon certified installer low voltage subcontractor to install home-run network connected cabling). The NNC system cabling device to device cabling is by Hill-Rom.		Yes	Yes	
Staff Assist Notification Call System - Low Voltage Cabling (Medical Group Clinics on hospital campuses to match NNC system)		A/E to identify locations on drawings, coordinate with Owner. Contractor to provide all infrastructure including conduits, back boxes, etc. for all NNC and Staff Assist Notification Call devices (e.g. RCB, GSR-10, etc.). The NNC and Staff Assist Notification Call system cabling will be by Hill-Rom including home-run cabling (Hill-Rom to coordinate, where required, with an Intermountain Siemon certified installer low voltage subcontractor to install home- run network connected cabling). The NNC and Staff Assist Notification Call system device to device cabling is by Hill-Rom.	Yes	Yes	
Staff Assist Notification Call System - Low Voltage Cabling (Stand-alone Medical Group Clinics)	A/E to identify locations on drawings, coordinate with Owner. Contractor Contr		Yes	Yes	
Patient Monitoring System & Devices (Hospital Campus)	A/E to identify locations on drawings, coordinate with Owner. Contractor to provide all infrastructure including conduits, back boxes, and home-run cabling from Patient Monitoring devices to TEC/TDR rooms that connect to Intermountain's network (Intermountain Siemon certified installer low voltage subcontractor to install). The Patient Monitoring system device to device cabling is by Vendor.		Yes	Yes	

4.5 Interior Finishes and Color Selections

4.5.1 GENERAL

Philosophy

Patients will experience interior decor as inviting and comfortable to evoke a warm, healing environment. The look should be timeless, not trendy; the color scheme should have a life cycle greater than four years. The number of patterns and colors should be limited so patients do not experience a color scheme that is not comforting.

Guiding Principles

Carpet and paint is not the primary decoration focus of a facility. The eye should not be drawn to the floor but to the beauty and variety of artwork, upholstery, furnishing, plants, cabinetry, millwork, as well as any outdoor views. The check-in desk and circulation should be a focal point and easy for a patient to locate. Different colors may exist on different levels, but they should harmonize so the entire facility maintains a coordinated color scheme.

4.6 Preferred Pricing and Vendors

Intermountain maintains purchase agreements with vendors that provide excellent service and products. The current list of vendors is:

Products	Company	Rep Name	Rep Number	Expire Date	Notes
Angio	Siemens or GE	Chad DeGroot (Siemens)	385-299-6055 chad.degroot@siemen s.com		
Carpet	Shaw	Brandon Rhoads	801-604-9909	10/31/2017	
Cath Lab	Siemens	Chad DeGroot	385-299-6055		
Cubicle Track and Curtains	C/S and Medline	Russ Parker	801-920-4360 rparker@medline.com	12/31/2021	"On the Right Track"
Digital Radiography	Carestream	Monte Huff	801-541-3600		
Facilities Maintenance Supplies	Grainger	Bryce Parkinson	801-215-5820	2/28/2018	
Fluoroscopy	Siemens	Chad DeGroot	385-299-6055		
Furniture	Steelcase	Megan Burraston	801-230-808	10/31/2017	
	Distributor: Midwest Office	Jamie Walker jamiew@MWC lutah.com	801-359-7681	10/31/2017	
		Stephanie Ennis stephaniee@M WClutah.com	801-359-7681 801-573-4016		
		Kara Norlin Karan@MWCI utah.com	801-359-7681 801-505-4214		
General Rad	Carestream	Monte Huff	801-541-3600 monte.huff@carestrea mhealth.com		
Hospital Lab Furniture	Symbiote				
	Distributor: Henrickson Butler			In contract negotiations	
Hybrid OR	Siemens, GE, Philips				
Interventional Radiology	Siemens or GE	Chad DeGroot	385-299-6055 chad.degroot@siemen s.com		
Light Booms, SS	Steris	Brady Barker	801-560-5158 Brady_Barker@STERI S.com	9/1/2021	

4.6.1 SINGLE SOURCE AGREEMENTS



Linear Accelerator	Varian	Nathan Korte	618-407-4861	9/22/2020	
			nathan.korte@varian.c		
			om		
MRI	GE	Brian King	801-201-5803		
		J	Brian.King@med.ge.co		
			m		
	GE	Brad Findlay	801-414-6299		
			Bradley.Findlay@med.		
			<u>ge.com</u>		
Nurse Call	Hill Rom	Julie Vieira	208-964-0856	4/30/2021	
			julie,vieira@hill-		
			rom.com		
Patient Lifts (ceiling)	Liko (Hill Rom)	Julie Vieira			
PET/CT	Siemens	Walt Stenborg	303-903-7824		
Pharmacy Medication	Omnicell	<u> </u>			
Dispensing (Robots,					
Carousels, etc.)					
Security Cameras	AlphaCorp/Conv	Dave Porter	801-910-5908		
-	ergint		Dave.Porter@convergi		
			nt.com		
SPECT/CT	Siemens	Walt Stenborg	303-903-7824		
		_	walter.stenborg@sieme		
			ns.com		
Vaccine Refrigerators and					
Freezer					
	Helmer HLR 105,	Lisa Brown	317-773-9073 x3812		Under-counter
	105 w/lock box		lbrown@helmerinc.com		models
	Helmer MLR 102				Countertop
					fridge
	Helmer HLR 104				ADA complaint
					under-counter
	Helmer HPR 245				2-Door Upright
	Helmer HPR 120				1-Door Upright
	Follett FZR1	Jim Hwang-	303-910-7011		Counter-top
		King	jhwang-		Freezer
			king@follettice.com		
Resilient Flooring*	Mannington	Bryan	801-450-6449	12/31/2018	
		Thompson			
	Distributor:	Wayne	801-330-4626		
	Midwest Flooring	Francom	001 557 70 17		
Washers/Sterilizers	Steris	Mark Green	801-557-7012	9/1/2021	
			mark_green@steris.co		
			<u>m</u>		



4.6.2 PREFERRED AGREEMENTS

Products	Company	Rep Name	Rep Number	Expire Date	Notes
Air Filters	Camfil Farr	Tim Pratt	801-201-6418		
Armstrong Ceiling Products	Armstrong	Deborah Pickens	480-695-9053 dlpickens@armstrongceilings.com	12/31/2017	
	Strategic Account of site.	or the contractor can call	1-800-442-4212 to locate the nearest Arm	strong distributo	r to the job
	Strategic Account of the facility address	or contractor must give th prior to requesting a qu	ne distributor the Strategic Account Name I ote or placing an order.	ntermountain He	althcare and
	The Armstrong dis	tributor will sell the ceiling	g panels at the agreed upon pricing.		
	Delivery charges, s quoted by the loca	stock and scatter, any exiter, any exited and scatter, any exited and stributor.	tra services requested by Strategic Accoun	t or the contract	or will be
	Strategic Account	or the contractor ordering	the materials will pay the distributor.		
	Terms and Condition	ons of sale are between	the Strategic Account or the contractor and	the distributor.	1
Atkinson Controls	Atkinson	Scott Richards	801-529-2912		
A/V Integration	Cache Valley Elect	ric, Marshall Industries, \	Webb Audio		
Chiller and Cold Airside	York	Doug Warnick	801-510-8697		
Fume Hoods and/or Bio- Safety Cabinets	Baker Company				
Johnson Controls	JCI	Joe Morin	801-669-7596		
Light Booms – CV	Skytron	Donna Johnson	801-361-4967 Donna@johnsonmedical.com	5/1/2019	
Paint and Wall Protection	Sherwin-Williams	Cody Slade	801-718-5553		
Siemens Controls	Siemens	Taft Arnold	303-324-2628		
Siemon Cabling System	Hunt Electric/Siemon	Brian Duval	860-945-4380		
Water Treatment	Nalco	Mike Kimball	801-560-4896	12/31/2017	

Standard Commercial

4.6.3 SHAW STANDARD COMMERCIAL RECLAMATION PROGRAM

Please see information provided by Shaw below regarding their Commercial Reclamation Program, which should be used whenever possible on Intermountain projects.





Standard Commercial Reclamation Program

Dear Shaw Customer,

In addition to being good for the environment, recycling is a significant value-added service that we offer our customers. In order to take advantage of this service, we require that you adhere to the following Program Guidelines and Material Quality & Staging Requirements. Eligible Standard Commercial Reclamation Projects (non-EcoWorx) are managed by Shaw Reclamation at a cost per square yard charged to the customer (EcoWorx projects are managed free of charge, please see our EcoWorx Environmental Guarantee Reclamation Program for details).

Program Guidelines

- For a non-EcoWorx recycling project to be eligible as a Standard Project, the project must be:
 - A minimum of 500 square yards
 - o Associated with a replacement order through Shaw in the same or greater quantity
 - o Located within the continental U.S. or Canada
- The customer is responsible for preparing the material for shipment.
 - The pick-up location must be able to accommodate a 53-foot trailer.
 - Additional required services such as pup trailers, dropped trailers, etc. will be provided as necessary at additional cost. These services are available in the continental United States only.
 - The customer must load the trailer to maximize weight, starting in the nose of the trailer and working toward the rear.
 - o Trailers must be clean of any non-carpet debris (i.e. construction waste, cardboard boxes, trash, etc.).
 - o A trailer refusal fee will be applied to any project that is not available for pick-up at the scheduled time.
- Shaw will not be held liable for any non-conforming material or any charges that arise from non-conforming loads. Any additional costs or liability associated with a non-conforming load will be passed on to the customer.
- To initiate your Standard Commercial Reclamation Project, please complete and submit the attached <u>Standard</u> <u>Commercial Reclamation Project Request Form</u> for eligibility and scheduling purposes. Please email the completed form to: <u>Bea.brahmbhatt@shawinc.com</u> & <u>Stephanie.prather@shawinc.com</u>. *Please complete and submit the form at least 8 business days prior to the expected pick-up date.*
- Upon receipt and approval of the completed form, Shaw Reclamation will determine the best recycling option for the material and submit a quote for customer approval as soon as possible.
 - Allow up to 3 business days to receive a project quote for approval.
 - o Allow 5 business days for transportation scheduling from quote approval date.
- The project cost will be billed directly to the existing Shaw customer account on a separate invoice.
- Shaw will provide a proof of recycling certificate upon project completion. The certification process may take up to 30 days from the pick-up date.

Material Quality & Staging Requirements

- Only approved carpet tile or broadloom products may be included in the project. Other carpet types, carpet pad, or carpet with attached pad will not be accepted.
- Material <u>must</u> be dry and free of non-carpet debris. If trash or other materials are present on the load, trash handling and disposal charges will be applied.
 - o Material must not contain vinyl, asbestos, or adhesives containing asbestos.
 - o Bio hazardous or contaminated material will not be accepted.
- All material must be staged on pallets no wider than 4ft by 4ft (pallets must be able to be loaded in a trailer side-byside.)
 - Do not mix tile and broadloom on the same pallet.
 - o Tile should be stacked flat and neatly onto pallets at least 38" high and no higher than 44".
 - Broadloom carpet <u>must</u> be cut into strips and then formed into individual rolls. Rolls should be stacked and palletized at least 38" high and no higher than 44".
 - All pallets must be strapped to secure the material during shipment (at least 2 straps, one on each pallet side). Rope or twine can be used for strapping material if necessary.
 - o Pallets that come apart in transit may result in additional handling charges.

1 V 2.0

Shaw reserves the right to modify or replace the information and offering stated in this document. No prior notification is required for these changes.





Standard Commercial Reclamation Program

Standard Commercial Reclamation Project Request Form

Please email the completed form to: Bea.brahmbhatt@shawinc.com and Stephanie.prather@shawinc.com

Sales Representative Information:	
Date of Request:	
Sales Specialist Name:	
Sales Specialist Contact Number:	
Sales Specialist Account Number:	
Sales Specialist Area #:	
Customer & Order Information:	
Customer Name:	
Is there a Replacement Order?	
(Note: Only EcoWorx does not require a replacement Order.)	Circle One: EcoWorx Non EcoWorx
Customer Acct Number:	
Mill Order # for Replacement Order	
Mill Order Dollar Amount: (square yards x price per yard)	\$
Reclamation Project Material Information:	
Square Yards Being Recycled: (500sy min)	
Project Type: Circle all that apply:	EcoWorx Other Tile
	EPBL Other BL
Carpet Type: Broadloom or Tile?	# of SV: Tilo BI
(If both indicate approx. amts of each)	# 01 51. The BL
Fiber type of material being recycled?	N6N6.6 MixedPET
Disclaimer:	PPWoolUnknown
Backing type of material being recycled	
(Examples: PVC, EcoWorx, Cushion Back, ActionBac)	
Is customer requesting fiber pad recycling?	
Reclamation Project Pickup Information:	
Pick Up Type: Check One	Live LoadTrailer Drop
Total # of Pallets to Pick up:	
Pickup/Drop trailer date requested:	
Has customer received packaging guidelines?	YesNo
Project Start Date:	
Project End Date:	
What is the largest container type the pickup	E2 ft trailer 26 ft trailer 40 ud him Otha
Location can accommodate?	55 ft. trailer 26 ft. trailer 40 yd bin Othe
Specify other size trailer need(s):	
Does truck need to have a lift gate?	
Hours location is open for pick up or drop?	
Reclamation Project Contact Information:	
End Use Customer:	
Pickup address:	
Contact Person at Pickup:	
Contact Information for On-Site Contact at Pickup:	Office: Cell: Email Address:
Name as to be listed on reclamation certificate:	
Name as to be listed on reclamation certificate: Email or Mailing Address to send certificate:	

2 V 2.0

Shaw reserves the right to modify or replace the information and offering stated in this document. No prior notification is required for these changes.



4.6.4 INTALERE

SOURCE AGREEMENTS

In addition, Intermountain receives preferred pricing with several manufacturers through Intalere.

MATERIALS FURNISHED BY THE CONTRACTOR

Intermountain Healthcare (owner) has a national accounts and contract program with selected manufacturers and/or distributors through Intalere, Inc. It is the request of the owner that Intalere contract suppliers' receive consideration for project awards. All bidders should <u>submit most competitive pricing</u>, warranty, and value-added offers. In any instance where an Intalere contracted supplier's prices, terms or conditions are more favorable than the bid response (same supplier not utilizing Intalere pricing), the owner reserves the right to request that identified benefits are amended and included in the final contract award. All awards granted to Intalere contracted suppliers shall be subject to volume reporting and terms and conditions of their master Intalere Agreement, unless identified and agreed to by the owner. Any such exclusion from Intalere contract reporting requirements must be documented in writing including a signature of agreement by the owner.

Please consider separating materials and labor costs in bid responses. Itemized materials pricing including a description of materials discount structures (from list), is preferable, so that Intalere contract pricing or better can be validated.

Subcontractors and installers may access Intalere contract pricing from manufacturers by identifying the project for Intermountain Healthcare (Intalere Member ID # 17615). Proper utilization of Intalere contracts will net Intermountain Healthcare savings and rebates on materials supplied by contracted suppliers. Please contact Mike Gerhardt for questions or assistance.

Company	Contact	Title	Phone	Email
	Mike	Senior Director, Capital,	(513) 502-	
Intalere	Gerhardt	Facilities and Construction	2756	Michaell.Gerhardt@Intalere.com



Intalere Construction Solutions

Contract Index March 2017

APPLIANCES			CURRENILY USE
<u>Sears Commercial</u>	Appliances, Tools, Lawn & Garden, & Fitness Equipment	<u>VQ10329</u>	
BEDS			
Hill-Rom Company, Inc.	Equipment, Beds & Furniture	VQ03000	
Hill-Rom Company, Inc.	Equipment, Rental, Therapeutic	<u>VQ10244</u>	
CAPITAL MEDICAL EQUIPMENT DISPOSITION, SALES & SERVICES			CHERRENTLY LICE
DOTmed.com (Intalere Choice)	Capital Medical Equipment Disposition, Sales & Services	A\$10104	
CARTS, SHELVING & MATERIAL HANDLING			
InterMetro Industries Corporation	Material Handling Equipment, Carts	VQ03800	
Quantum Medical (Intalere Choice)	Material Handling Equipment, Carts	VQ10315	
Spacesaver Corporation	Mobile Filing & Storage Systems	VQ00600	
<u>Stanley Healthcare</u>	Storage Solutions for Interventional Radiology & Cardiac Cath Labs, Inventory Management	<u>VQ16200</u>	
Storaae Systems Unlimited	Project Management & Distribution	<u>VQ10296</u>	
CASEWORK			CURRENTLY USE
Blickman, Inc.	Durable Medical Equipment, Stainless Steel & Chrome	<u>VQ10055</u>	
<u>Fisher HealthCare</u>	Distribution, Laboratory	VL01200	
Haworth, Inc. (Intalere Choice)	Energy Efficient Office Environments	<u>VH10868</u>	
Herman Miller, Inc.	Furniture, Office	VH02500	
InterMetro Industries Corporation	Material Handling Equipment, Carts	<u>VQ03800</u>	
Midmark Corporation	Equipment, Exam Room	VQ11600	
Staples Contract and Commercial, Inc. dba	Office Supplies & Furniture	<u>VH10115</u>	
<u>Steelcase, Inc.</u>	Furniture, Office	<u>VQ11400</u>	
COMMUNICATIONS			CURRENTLY USE
Ascom Patient Systems	Patient/Staff Communications Solutions	<u>VQ12100</u>	
Gravbar Electric Company, Inc.	Electrical Supplies & Lamps	VH16900	
Hill-Rom Company, Inc.	ComputerSoftware	<u>VH10993</u>	
WESCO Distribution, Inc.	Electrical Supplies & Lamps	<u>VH19500</u>	
DIETARY EQUIPMENT			OURRENTLY USE
Aladain Temp-Rite	Foodservice Equipment & Smallwares	VF01700	
C&T Design and Equipment Company	Foodservice Design Services & Equipment	<u>VF10162</u>	
Carlisle FoodService Products dba Dinex International, Inc.	Food Service Equipment & Supplies	<u>EN10183</u>	
Carter-Hoffmann, LLC,	Foodservice Equipment & Smallwares	VF10233	
Culinex	Foodservice Equipment & Smallwares	<u>VF74600</u>	
Direct Supply, Inc.	Healthcare Equipment, Furnishings, Environmental, Foodservice	<u>VH45800</u>	
Ecolab. Inc.	Dietary Equipment Service, Repair, Preventative Maintenance and Parts	VF10009	
Edward Don Company	Foodservice Equipment & Smallwares	<u>VF10096</u>	
Wasserstrom Company, The	Foodservice Equipment & Smallwares	<u>VF02700</u>	



DURABLE MEDICAL EQUIPMENT			CURRENILY USE
Blickman, Inc.	Durable Medical Equipment, Stainless Steel & Chrome	VQ10055	
Lowe's Companies, Inc.	Maintenance, Repair & Operations Products	<u>VH11273</u>	
Mitchell Planning Associates	Equipment Planning & Management Services	<u>VH11464</u>	
Pediao Products, Inc.	Durable Medical Equipment, Stainless Steel & Chrome	VQ12500	
ELECTRICAL SUPPLIES, FIXTURES & LAMP	s		
			CURRENTLY USE
Datatrend Technologies, Inc	Maintenance, Repair & Operations Products	<u>VH11423</u>	
<u>Grainaer Industrial Supply</u>	Maintenance, Repair & Operations Products	<u>VH59100</u>	
Grainger Industrial Supply	Maintenance, Repair & Operations Products	<u>VH11191</u>	
<u>Gravbar Electric Company, Inc.</u>	Electrical Supplies & Lamps	<u>VH16900</u>	
HD Supply Facilities Maintenance	Maintenance, Repair & Operations Products	<u>VH17500</u>	
Lowe's Companies, Inc.	Main tenance, Repair & Operations Products	<u>VH11273</u>	
WESCO Distribution, Inc.	Electrical Supplies & Lamps	<u>VH19500</u>	
ELEVATOR EQUIPMENT & MAINTENANC			
	Clauser Fernander P. Marian Mallurer, Drawingh & Maintenance Consistent		CURRENILY USE
KONE, Inc.	Elevator, isociator & moving walkway models & maintendrice services	<u>VQ10174</u>	ц. Ц.
<u>Otis Elevator Company</u>	Elevator Maintenance	<u>VQ10500</u>	
EMERGENCY RESTORATION SERVICES			
		-	CURRENTLY USE
Polyaon US Corporation	Emergency Restoration Services	<u>VH11394</u>	
EQUIPMENT PLANNING, MANAGEMENT			
<u>Attainia, Inc.</u>	Software, Capital Budgeting & Equipment Planning	VH11184	CURRENTLY USE
ECRI Institute	Healthcare Technology Assessment Resource	AS91298	
MD Buyline, Inc.	Healthcare Technology Assessment Resource	A\$10075	
Medical Equipment Resources & Consulting	Project, Operational & Valuation Services	A\$10194	
FINISHES, INTERIOR			OURRENTLY USE
Construction Specialties	Wall Protection	VH26500	
InPro Corporation	Architectural Products	VH10749	
Pawling Corporation (Intalere Choice)	Wall Protection	VH10972	
Sherwin-Williams Company	Paint & Related Products	VH23800	
FIRE PROTECTION SYSTEM SERVICES			
			CURRENTLY USE
<u>Cintas Corporation</u>	Fire Protection System Services	<u>VH11640</u>	
Ielaian Corporation	Fire Protection System Services	<u>VH11200</u>	
FLOOR COATINGS			CURRENTLY USE
CentiMark Corporation	Roofing, Replacement, Repair & Installation	<u>VQ04900</u>	
Sherwin-Williams Company	Paint & Related Products	VH23800	
FLOOR COVERINGS			OURRENTLY USE
Manninaton Commercial	Floorcoverings & Carpets	<u>VH10161</u>	
Shaw Industries, Inc.	Floorcoverings & Carpets	<u>VH10009</u>	
FLOOR MAINTENANCE			OURRENTLY USE
Nilfisk, Inc.	Commercial & Industrial Floor Maintenance Equipment	VH10211	



Tennant Sales and Service Company	Commercial & Industrial Floor Maintenance Equipment	VH10658	
FREIGHT MANAGEMENT SERVICES			CURRENILY USE
Cardinal Health-OptiFreight Prog.	Freight Management Services	<u>A\$10121</u>	
Triose, Inc.	Inbound & Outbound Freight Management Services	AS10145	
FURNITURE			CURRENTLY USE
Direct Supply, Inc.	Healthcare Equipment, Furnishings, Environmental, Foodservice	<u>VH45800</u>	
Haworth, Inc. (Intalere Choice)	Energy Efficient Office Environments	<u>VH10868</u>	
Herman Miller, Inc.	Furniture, Office	VH02500	
Hill-Rom Company, Inc.	Equipment, Beds & Furniture	<u>VQ03000</u>	
Humanscale Healthcare (Intalere Choice)	Ergonomic Work Stations	VQ10159	
Joerns Healthcare, Inc.	Equipment, Beds & Furniture, Long Term Care	VQ03900	
KI	Furniture	<u>VQ04700</u>	
Knoll, Inc.	Furniture, Office & Healthcare	VQ10152	
Kwalu	Furnifure	<u>VH11186</u>	
La-Z-Bov Contract Fumiture, Knu, LLC	Furniture, Office	<u>VQ10084</u>	
NOA Medical Industries, Inc.	Equipment, Beds & Furniture	VQ10331	
GENERATORS, SWITCHGEAR, UPS			
Caternillar Inc	Consisten Suitchaser UPC 9 ATS	V/210206	
HVAC EQUIPMENT & SERVICE		1010000	CHERENTLY USE
Building Loaix	Energy Management Services	VH11585	
Carrier Corporation	HVAC Equipment & Service	VQ16700	
Daikin Applied	HVAC Equipment & Service	VQ10161	
Phoenix Controls	Building Automation Controls	VQ10287	
Triatomic Environmental, Inc.,dba FreshAire UV	UVC Germicidal Light Systems	VQ10327	
ICE/WATER DISPENSERS & ACCESSORIES			
			CURRENTLY USE
Follett Corporation	Ice Machines & Medical Grade Refrigerators/Freezers	<u>VQ10285</u>	
MAINTENANCE, REPAIR & OPERATIONS			
Grainger Industrial Supply	Maintenance Renair & Operations Products	VH59100	
Grainaer Industrial Supply	Maintenance, Repair & Operations Products	VH11191	
HD Supply Facilities Maintenance	Maintenance, Repair & Operations Products	VH17500	
Lowe's Companies, Inc.	Maintenance, Repair & Operations Products	VH11273	
MOBILE, MODULAR & STORAGE			
FACILITIES			OURRENTLY USE
Modular Space Corporation (ModSpace)	Mobile & Modular Buildings & Storage Units	<u>VQ10310</u>	
MOVING SERVICES			OURRENTLY USE
Allied Van Lines	Moving Services	<u>AS91246</u>	
OPERATING/EXAM ROOM & MISCELLANEOUS EQUIPMENT			
Berchtold Corporation	Equipment, OR Tables	VQ10255	
MAQUET Medical Systems	Equipment, OR Tables	VQ10249	
<u>Midmark Corporation</u>	Equipment, Exam Room	<u>VQ11600</u>	



<u>SensoScientific, Inc.</u>	Wireless Temperature Monitoring Solutions	A\$10101	
<u>Skytron, LLC</u>	Equipment, OR Tables	VQ10089	
STERIS Corporation (Intalere Choice)	Equipment, OR Tables	VQ10090	
STERIS Corporation (Intalere Choice)	Equipment, OR Lights & Booms	VQ28200	
Stryker Corp.	Equipment, Stretchers	VQ10043	
OXYGEN - BULK LIQUID, CYLINDER GAS			
& ACCESSORIES			OURRENTLY USE
<u>Praxair Healthcare Services</u>	Bulk Liquid Oxygen & Cylinder Gas	VH11700	
PAINT & RELATED PRODUCTS		-	GURRENTLY USE
<u>Sherwin-Williams Company</u>	Paint & Related Products	<u>VH23800</u>	
PATIENT LIFTS			CURRENTLY USE
<u>Hill-Rom Company, Inc.</u>	Patient Lifts	<u>VQ10133</u>	
PATIENT WEIGHING SYSTEMS			CURRENTLY USE
Health o meter Professional Scales	Patient Scales, Weighing Systems	<u>VQ10311</u>	<u> </u>
<u>Scale-Tronix, Inc.</u>	Patient Scales, Weighing Systems	<u>VQ10245</u>	
<u>SR Instruments, Inc.</u>	Patient Scales, Weighing Systems	<u>VQ05900</u>	
PATIENT/STAFF COMMUNICATIONS SOLUTIONS			
Hill-Rom Company, Inc.	Computer Software	VH10993	
PIPING SYSTEMS, MEDICAL GAS & VACUUM			
Allied Healthcare Products, Inc.	Medical Gas & Vacuum Piping Systems	VQ06000	
Ohio Medical Corporation	Medical Gas & Vacuum Pipina Systems	VQ10033	
PLUMBING PRODUCTS			CURRENTLY USE
PlumbMaster, Inc.	Plumbing Specialty Products & Related	VH40200	
SupplyWorks	Plumbing Specialty Products & Related	VH23100	
PNEUMATIC TUBE SYSTEM & SERVICE			
			CURRENTLY USE
IransLogic Corporation dba Swisslog Healthcare Solutions	Pneumatic Tube System & Services, Computerized	<u>VL07200</u>	
ROOFING, EXTERIOR IMPROVEMENTS			
CentiMark Corporation	Roofing, Replacement, Repair & Installation	VQ04900	
Tremco, Inc.	Roofing & Waterproofing Products & Services, Facility Renovation &	VH94100	
SECURITY MONITORING SYSTEMS,	Kestoration Services		
NTANI, CHILD, & ADOLI		1/001500	CURRENTLY USE
Verus Technologies, Inc.		<u>VQ01500</u>	
SECURITY SYSTEMS		<u>VIII1414</u>	CURPER MAY UPP
PE Technologies Inc.	PTLC (PEID Solutions	V001500	
SIGNAGE		4001000	CURPENTLY USE
2/90 Sign Systems	Signage Supplies & Wayfinding	VH11338	
		VH10749	
		VH54800	
STORAGE SOLUTIONS			CUPPENTLY USE
Inter/Metro Industries Corporation	Material Handling Faujoment, Carts	VQ03800	
	the second second second second		N 70



Quantum Medical (Intalere Choice)	Material Handling Equipment, Carts	<u>VQ10315</u>	
Spacesaver Corporation	Mobile Filing & Storage Systems	<u>VQ00600</u>	
<u>Stanley Healthcare</u>	Storage Solutions for Interventional Radiology & Cardiac Cath Labs, Inventory Management	<u>VQ16200</u>	
Storage Systems Unlimited	Project Management & Distribution	<u>VQ10296</u>	
3/1/2017 12:34:58 PM			



Shailesh Munot

From:	Brian Juber <brian.juber@imail.org></brian.juber@imail.org>
Sent:	Wednesday, November 25, 2020 1:11 PM
То:	Shailesh Munot
Cc:	Milt White; Zane Rust
Subject:	FW: Membrane Material Warranty #: VER-5009
Attachments:	Membrane_Material_Warranty_VER-5009.pdf
Follow Up Flag:	Follow up
Flag Status:	Flagged

Received this today.

From: Versico <noreply@carlisleccm.com>
Sent: Wednesday, November 25, 2020 8:57 AM
To: Brian Juber <Brian.Juber@imail.org>; zane@mtpeakroofing.com; jorgen@mtpeakroofing.com
Subject: Membrane Material Warranty #: VER-5009

BE ALERT. External Sender. Be cautious.



Membrane Material Warranty #: VER-5009

Building Owner Information

Date of Sale:	11/23/2020
Email:	brian.juber@imail.org
Address:	1400 N 500 E
	Logan, UT 84321

Name:
Phone:

Logan Regional Hospital 435-716-5871

Contractor Information

Company:	Mt. Peak Roofing
Address:	135 South 700 West
	Logan, UT 84332

Email: Phone: **435-787-4174**

Project Inf	formation			
Completed: Address:	11/23/2020 1400 N 500 E Logan, UT 84332	Size (Sq Ft):	18780	
Warranty	Information			
Type: Requested:	VersiWeld 20	Thickness:	60	
CONNECT				
A SINGLE SO	URCE FOR SINGLE-PLY ROOFING			
	ox 1280 Carlisla, DA 17019			VERSICC

Versico, P.O. Box 1289, Carlisle, PA 17013 Tel: 800.992.7663 Fax: 717.960.4036 Web: www.versico.com

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ROOFING SYSTEMS

Warranty #: VER-5009



1400 N 500 E Logan, UT 84332

VERSICO MEMBRANE MATERIAL WARRANTY

Subject to the following terms and conditions, Versico, a division of Carlisle Construction Materials Incorporated, warrants to the Buyer that the Versico membrane material (MEMBRANE) will not prematurely deteriorate to the point of failure because of weathering for a period of (20) years from the date of sales if properly installed, maintained and used for the purpose for which Versico intended.

Buyer shall give Versico notice of a claim under this warranty within thirty (30) days of discovering any premature deterioration of the membrane. Any claim under this warranty must be made in writing within the designated warranty period from the date of sale and must include a sample of the membrane for evaluation and response at the owner's expense.

If upon inspection of the membrane sample received by Versico, the Membrane shows premature deterioration because of weathering within the designated warranty period stated herein, Versico's liability and Buyer's remedies are limited at Versico's option to the providing of repair material for the original Membrane or credit to be applied towards the purchase of a new Membrane, the value of these remedies being determined by Versico based upon the number of remaining months of the unexpired warranty used to pro-rate at the current prices for the Membrane. The maximum pro-rated value allowed by Versico for repair or credit shall not exceed the original Membrane purchase price.

This warranty refers to the deck membrane material only. Flashings, adhesives and other accessories contained in a membrane system are not covered by this or any other warranty, express or implied.

Versico shall not be responsible for the cleanliness or discoloration of the membrane material caused by environmental conditions including, but not limited to, dirt, pollutants, or biological agents.

Versico shall have no liability under any theory of law for any claims, repairs, restoration, or other damages including, but not limited to, consequential or incidental damages relating directly or indirectly, to the presence of any irritants, contaminants, vapors, fumes, molds, fungi, bacteria, spores, mycotoxins, or the like in the building or in the air, land or water serving the building.

NO REPRESENTATIVE OF VERSICO HAS AUTHORITY TO MAKE ANY REPRESENTATIONS OR PROMISES EXCEPT AS STATED HEREIN.

VERSICO DOES NOT WARRANTY PRODUCTS UTILIZED IN AN INSTALLATION, WHICH IT HAS NOT FURNISHED; AND SPECIFICALLY DISCLAIMS LIABILITY, UNDER ANY THEORY OF LAW ARISING OUT OF THE INSTALLATION AND PERFORMANCE OF, OR DAMAGES SUSTAINED BY OR CAUSED BY, PRODUCTS NOT FURNISHED BY VERSICO.

THERE ARE NO WARRANTIES EITHER EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH EXTEND BEYOND THE WARRANTIES CONTAINED IN THIS DOCUMENT. VERSICO SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGE, INCLUDING BUT NOT LIMITED TO, LOSS OF PROFITS OR DAMAGE TO A STRUCTURE OR ITS CONTENTS UNDER ANY THEORY OF LAW. THIS WARRANTY IS NOT TRANSFERABLE OR ASSIGNABLE.

ROOFING SYSTEM WARRANTY

System Warranty Revisions & Alterations Procedure Care & Maintenance Instructions





WARRANTY REVISIONS AND ALTERATIONS PROCEDURES

Versico recommends periodic roof system evaluations to ensure the roofing system is performing as intended. We suggest regular maintenance inspections be conducted by a Versico Authorized Roofing Contractor or by someone specially trained in single-ply roofing installations. However, even with the most rigorous reviews, roofing systems can be damaged by flying debris, other trades servicing rooftop equipment, etc. Regardless of how the damage occurs, it is important to understand how to both protect your warranty investment and prolong the life of your roofing system. Following these procedures and recommendations can ensure that repairs are performed accurately so that the warranty duration and coverage remain intact.

Warranty Revisions & Alterations Procedures

- Paragraph 4(a) of the Versico Roofing System Warranty states: "This warranty shall be null and void if, after installation of the Versico Roofing System by a Versico Authorized Roofing Contractor, there are any alterations or repairs made on or through the roof, or objects such as, but not limited to, structures fixtures, solar panels, wind turbines, roof gardens or utilities placed upon or attached to the roof without first obtaining written authorization from Versico."
- 2. Solar panel installations entail additional documentation and require building owner authorization. Please refer to Versico's website to review the proper documentation for Photovoltaic installations.

Below is address information for Versico's Warranty Services Department.

Versico

Attn. Warranty Services P.O. Box 1289, Carlisle, PA 17013 Phone: 800.992.7663 | Fax: 717.960.4035

- 3. A Versico Authorized Roofing Contractor must perform all revision work. It is recommended that the original contractor who installed the roofing system perform the revision work, if possible.
- 4. The Versico Authorized Roofing Contractor must notify Versico when the revision work is complete. The form can be found on Versico's website under the password protected section titled Warranty Revisions/ Alteration Procedures.
- At Versico's discretion, a Versico Field Service Representative may conduct an inspection to ensure compliance with the current published Versico Specifications and Details. The contractor will be notified of the results. Current inspection charges and expenses will apply.
- 6. When the revision or alteration is completed in compliance with the above procedures, Versico will notify the building owner that the warranty is being continued.

Care and Maintenance Instructions

The following maintenance items are the responsibility of the building owner and are not included within the scope of the Roofing System Warranty.

MAINTENANCE ITEM	ACTION
Drainage	Keep the roof surface clean at drain areas to avoid clogging. Check that ponding water is drained from the roof within 48 hours following rain.
Petroleum Products	Keep all petroleum products (solvents, greases, oils, or any liquids containing petroleum products) off the membrane to avoid degradation.
Animal Fats – EPDM Membranes	Do not exhaust kitchen wastes (vegetable oils) or other animal fats directly onto the roof surface. If incidental contact is likely, contact Versico for recommendations on membrane type and usage.
Animal Fats – TPO & PVC Membranes	TPO and PVC membranes for restaurant rooftop use will not void the warranty. A rooftop maintenance program must be in place to ensure that accumulations of animal fats/grease are regularly removed and the rooftop surface is cleaned with a mixture of warm soap and water and/ or by other approved cleaning methods. See Versico's Installation Guide for specific cleaning instructions.
Chemicals	Contact Versico if any chemicals come in contact with the roofing membrane. Some chemicals could degrade the membrane or cause swelling.
Foot Traffic	Walkways must be provided if regular traffic is required or if rooftop equipment has a regular thirty (30) day or less maintenance schedule. Exercise caution when not walking on walkways, especially on white membranes (VersiGard white or VersiWeld) as ice or frost build-up may not be visible. All membranes are slippery when wet.
Roof Cement	DO NOT USE ROOF CEMENT to repair or install rubber membrane. Roof cement contains petroleum products that may degrade the membrane.
Temporary Repairs	Use Lap Sealant or any good-grade rubber caulk to make temporary repairs. Notify Versico of this action in writing.

Care and Maintenance Instructions (continued)

Leaks	Locate the leak and determine if it is a roof membrane leak or a wall, curb, skylight, metal ductwork or plumbing leak. Deterioration or failure of building components that causes a leak is not covered by the warranty. A water leak may be indicated by soft or warped insulation. Physical damage to the membrane or flashing is not covered by the warranty. Please notify Versico's Warranty Services Department at 800.992.7663 if the leak is determined to be membrane related. The building owner must pay the investigation and repair cost if the problem is found to be outside the scope of the warranty.
Hypalon and Non-Versico Acrylic Coatings	Coatings are maintenance items and are excluded from the Versico warranty. Recoat when necessary.
Rooftop Maintenance	When it is necessary for workers to be on the roof to service rooftop equipment (e.g. HVAC units, antennas, etc.) workers should be cautioned to use walkways and exercise care with their tools and equipment to avoid puncturing the roofing membrane.
Roof Alterations	Please refer to the Versico Roofing System Revisions and Alteration procedures on the preceding page.
Cleaning	Handprints, footprints, general traffic grime, industrial pollutants and environmental dirt may be cleaned from the surface of the membrane by scrubbing with detergent and water, then rinsing with clean water. To maximize reflectivity, white membrane(s) should be cleaned once every two years.
Metal Work	Keep roof maintenance items such as counterflashing, metal curbs and metal ducts sealed watertight at all times.

The preceding care and maintenance requirements are for VersiGard EPDM (black and white), VersiWeld, VersiFlex and VersiFleece Membrane Roofing Systems. The list is not meant to be exhaustive and is for illustrative purposes only. Versico recommends that your maintenance staff and/or maintenance contractor inspect the roof periodically or at least twice a year. The inspection should concentrate on high-risk areas such as roof hatches, drains and around all rooftop equipment as well as general inspection of the entire roof. The inspector should be looking for membrane damage (cuts and tears), oil or Freon leaks, chemical spills, and water infiltration into the roofing system.

Compliance with the above-listed care and maintenance requirements will aid in ensuring a durable, watertight membrane roofing system.

Building Maintenance

We are pleased that you purchased a Versico roof and would like to provide some recommendations about how to properly care for your roof to ensure long-term performance.

Inspect and maintain your roof on schedule.

Weather, structural movement and stress are constantly attacking your roof. While normal aging will occur on all roofs, problems stemming from neglect, abuse, contamination or accident can result in extensive, costly repairs or premature failure of the roofing system if not detected early.

You can add years to the life of your roof by properly maintaining the roof with a regular inspection

program to detect minor problems before they become serious. Plan and start an inspection program during the first year your new roof has been installed.

Track your roof maintenance.

An essential element of a good inspection and maintenance program is proper record keeping and documentation. Versico recommends restricted access to your roof. Versico has provided a maintenance log for your convenience to keep track of who has access to your roof.

The log also includes columns to track two maintenance/inspection events per year. Versico recommends that you have your roof inspected twice annually and after a severe storm. Please have your Versico authorized maintenance company document the condition of your roof with photographs.

If repair, alteration or retrofit is needed, please see the revisions and alterations procedures included in your owner's manual packet.

Building Owner Services: 866-386-7454



Roof surfaces may be slippery. Use extreme caution when walking on your roof.

WARRANTY TERM		anty Number:	Zip:		:(:		FALL MAINTENANCE INSPECTION CONDUCTED	BY DAIE						
		Warro	iate:		ssing, vibrations, etc.		PRING MAINTENANCE INSPECTION SONDUCTED	BY DAIE						
LATION DATE			Š	omer Number:	chemical proce	Insulation:	IS THE LEAK REPAIRED? C	Ī					 	
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D)wner's Name:	alley):		NAME	L						
enance Log				Building C	urrounding Terrain (city, country, hill, v	Slope:	COMPANY GRANTED ACCESS							
y Maint							ROOF ACCESS GRANTED BY							
Warrant		Building Name:.	Building Addres:	Telephone:	Description of Su	Building Height:	DATE ACCESS GRANTED							





Model: RR25LDK

Parts Included

Metal brackets for lowering plywood floors for curbless shower pan, all installation screws Material: 16 gauge galvanized steel



Installation Kit Includes

- M bracket–47 3/8" long main bracket fastened to the top of floor joists (x8)
- Z bracket-5" long side bracket used for wall to recess and main floor to recess transitions (x22)
- ML bracket–47 3/8" long main bracket fastened to the top of last floor joist (x2)
- ZL bracket–5" long side bracket used for wall to recess (x8)
- #10 2 3/4" wood to metal self-drilling screws with wings (x40)
- #10 1 5/8" wood to metal self-drilling screws with wings (2 packages of 80 pieces)
- #8 x 1 1/4" Flat-head Phillips screws (x60)

Testing

All RR kits and accessories have undergone thorough testing and passed Robinson Test C627 for floor assemblies







For RR25LDK kit

Floor joists running parallel to the shower entry
 Standard lumber, I joists or trusses
 3/4" Plywood sub-floor

Installation Instructions

Rapid Recess P.O.Box 2107, Silverthorne, CO 80498 **rapidrecess.com**

Parts Included



- A. Z-Bracket (5" long)
- **B.** M-Bracket (47 3/8")
- **C.** LM-Bracket (47 3/8" long)
- **D.** LZ-Bracket (5" long)

Tools Needed

- **AA.** #8 x 1 1/4" Flat-head Phillips screws **BB.** #10 1 5/8" wood to metal self-drilling screws with wings
- **CC.** #10 2 3/4" wood to metal self-drilling screws with wings



Bracket Placement Overview



When joists are parallel to the shower entry, the transition to recessed floor needs to be placed on the front (the edge of a joist adjacent to the recessed part) edge of floor joist regardless of placement. Sometimes the recess needs to be extended past the intended shower pan. The space will be treated the same as any recessed one but filled back in with 5/8" thick plywood up to the intended shower pan.



Site Preparation



Measure and mark subfloor to be removed.



Note the linear drain location (C and D brackets will be installed in the back opening later in installation process).



Secure main bracket to floor joist with one #8 flat-head Phillips screw (AA) per tab. Only **one hole** (preferably the middle hole) on each tab should be used unless circumstances make middle hole unavailable.



Use recommended saw to flush cut marked portions subfloor and remove.



Cut main bracket (B) to size if needed. Remove any adhesive left over from the original plywood. Place main bracket (B) on one side of floor joist (bracket should be flush against top and side of joist).



Place main bracket (B) on other side of floor joist (bracket should be flush against top and side of joist). Cut main bracket (B) to size if needed.


Secure main bracket to floor joist with #8 flat-head Phillips screws (AA).

Bracket Installation



Z brackets (A) upper tabs will be installed under the base plate where there is a wall at the shower pan and on top of plywood at recess transition.

Note: Use one bracket per opening between floor joists and one bracket per linear foot along outer sides of opening.



Continue placing Z-brackets along side walls (one brackets per linear foot and one bracket per opening between floor joists). Use a scrap 2 x 4 during installation to keep from damaging bracket.



Repeat steps 4-7 for remaining floor joists and main brackets (B) except for the linear drain opening.



Place a Z-bracket (A) along side wall with tabs above and below subfloor. Use a scrap 2 x 4 during installation to keep from damaging bracket.



With Z-brackets (A) mounted in a level position, install #10 2 3/4" wood to metal self-drilling screws with wings (CC) through base plate and into both outer tabs of Z-brackets.



Place Z-brackets (A) into position (two per linear foot) on top of subfloor at threshold (or at the side of shower where there is no framed wall) with tabs above and below subfloor.





OPTIONAL: Secure Z-bracket by installing #10 zinc-plated Phillips flat-head reamer screws with wings (BB) through the subfloor and into the Z-bracket lower tabs.

Continue placing Z brackets into position on top of subfloor at threshold (or at the side of shower where there is no framed wall) except for the linear drain opening.



Cut LM-brackets (C) to size if needed. Remove any adhesive left over from the original plywood. Place LM-bracket (C) on inside of last floor joist (bracket should be flush against top and side of joist).



Secure LM-bracket (C) to floor joist with one #8 flat-head Phillips screw (AA) per tab. Only **one hole** (preferably the middle hole) on each tab should be used unless circumstances make middle hole unavailable.



Place a LZ-bracket (D) in last opening between floor joists with tabs above and below subfloor. Use a scrap 2 x 4 during installation to keep form damaging bracket.



With LZ-brackets (C) mounted in a level position, install #10 2 3/4" wood to metal self-drilling screws with wings (CC) through base plate and into both outer tabs of Z-brackets.



Measure distance between main brackets on floor joists and Z-brackets for length and width for plywood strips.



Continue placing LZ-brackets (D) along rear wall and side of last front opening (one bracket per linear foot). Use a scrap 2 x 4 during installation to keep form damaging bracket.



Linear Drain Bracket Placement Parallel joists.



Using measurements from previous step, cut plywood strips 1/8" shorter and narrower to fit loosely into opening.



Use construction adhesive for plywood and brackets. Place first plywood strip into position on brackets.



Repeat steps 21-22 for remaining plywood strips.



Secure plywood strip to Z-brackets and main bracket with #10 1 5/8" wood to metal self-drilling screws with wings with wings (BB). Screw down every 10-12" minimum.



Place a 5/8" filler at entry to match the size of the shower pan.



Overview of bracket and recess plywood placement (side view).

SECTION 23 34 00 - HVAC Fans

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes
 - 1. The ceiling-mounted circulation fan is the model scheduled with the capacities indicated. The fan shall be furnished with mounting hardware and a remote control as manufactured by Big Ass Fans.
- B. Summary of Work
 - 1. Installation of the fan, wireless network (optional), miscellaneous or structural metal work (if required), field electrical wiring, cable, conduit, fuses and disconnect switches, other than those addressed in the installation scope of work, shall be provided by others. Installation services are available through Big Ass Fans. Consult the appropriate installation scope of work for information on the available installation options, overview of customer and installer responsibilities, and details on installation site requirements.

1.2 RELATED SECTIONS

- A. 21 00 00 Fire Suppression
- B. 23 00 00 Heating, Ventilating, and Air Conditioning (HVAC)
- C. 26 00 00 Electrical

1.3 REFERENCES

- A. Canadian Standards Association (CSA)
- B. International Organization for Standardization (ISO)
- C. National Electrical Code (NEC)
- D. National Fire Protection Association (NFPA)
- E. Underwriters Laboratories (UL)
- F. European Community (CE)

1.4 SUBMITTALS

- A. Shop Drawings: Drawings detailing product dimensions, weight, and attachment methods.
- B. Product Data: Specification sheets on the ceiling-mounted fan, specifying electrical and installation requirements, features and benefits, and controller information.
- C. Revit Files: Files provided for architectural design.
- D. Product Documentation: The manufacturer shall furnish a copy of all installation, operation, and maintenance instructions for the fan. All data is subject to change without notice.
- E. Schedule

1.5 QUALITY ASSURANCE

- A. Certifications
 - 1. Safety
 - a. The fan assembly, as a system, shall be Intertek/ETL-certified and built pursuant to the following standards.
 - 1) Canada

a) CSA C22.2 No. 113. Standard for Safety for Fans and Ventilators.

- 2) United States
 - a) UL 507. Standard for Safety for Electric Fans.

- b. The fan assembly, as a system, shall be CE-compliant.
- c. The fan motor shall be Intertek/ETL-certified and built pursuant to the following standards.
 - 1) Canada
 - a) CSA C22.2 No. 100. Standard for Safety for Motors and Generators.
 - b) CSA C22.2 No. 77. Standard for Safety for Motors with Inherent Overheating Protection.
 - 2) United States
 - a) UL 1004-1. Standard for Safety for Rotating Electrical Machines Part 1 General Requirements.
 - b) UL 1004-3. Standard for Safety for Thermally Protected Motors.
 - c) UL 1004-7. Standard for Safety for Electronically Protected Motors.
- B. Manufacturer Qualifications
 - 1. The fan and any accessories shall be supplied by Big Ass Fans which has a minimum of twenty (20) years of product experience.
 - 2. ISO 9001-compliant

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver product in original, undamaged packaging with identification labels intact. The fan shall be new, free from defects, and factory tested.
- B. The fan and its components must be stored in a safe, dry location until installation.

1.7 WARRANTY

A. The manufacturer shall replace any products or components defective in material or workmanship for the customer free of charge (including transportation charges within the USA, FOB Lexington, KY), pursuant to the complete terms and conditions of the Big Ass Fans Warranty in accordance to the following schedule:

Application	Period of Coverage
Residential	5 years
Non-Residential	3 years
†Labor to repair the	e defect will be provided free of charge at the Big Ass Fans
service center for c	lefects arising during the Warranty Period.
<i>†</i> †See the complet	e warranty for more details.

PART 2 PRODUCT

2.1 MANUFACTURER

A. Delta T LLC, dba Big Ass Fans, PO Box 11307, Lexington, Kentucky 40575. Phone (877) 244-3267. Fax (859) 233-0139. Website: www.bigassfans.com

2.2 HAIKU® L

- A. Complete Unit
 - 1. Regulatory Requirements: The entire fan assembly, as a system, shall be Intertek/ETLcertified and built pursuant to relevant safety standards as described above.
 - 2. Quality: The fan shall display good workmanship in all aspects of its construction. Field balancing of the airfoils shall not be necessary.
 - 3. Colors: Airfoil colors may be selected by the architect or owner as described in 2.2.C, "Airfoils."
 - 4. Optional Accessories

- a. A wall-mounted wired controller (in addition to the standard remote control) may be selected at the time of order.
 - 1) The Wired Wall Control shall control both the fan and light (on/off and variable speed/brightness).
- b. A 0–10 V module may be selected at the time of order. The module shall enable the fan to be integrated with a home or building automation system or a 3rd party 0–10 V dimmer using an industry-standard protocol.
- B. Mounting System
 - 1. The fan shall be suitable for flat or sloped ceilings with heights of 8 ft (2.4 m) or taller.
 - 2. The fan shall be equipped with a mounting bracket, control box, wiring cover, mounting ball and wedge, motor cover and trim, extension tube, motor unit, airfoils, mounting hardware, and either a lower cover or optional LED light kit.
 - 3. A 5-inch (128.5-mm) extension tube shall be included with the fan.
 - 4. The fan shall have a diameter of 44 in. (112 cm) or 52 in. (132 cm).
- C. Airfoils
 - 1. The fan shall be equipped with three airfoils spanning a total diameter of 44 in. (112 cm).
 - 2. Airfoils shall be made of hybrid resin.
 - 3. Airfoils shall be available in a black or white finish as specified by the architect or owner.
- D. Motor
 - 1. The fan shall have an electronically commutated motor (ECM) rated for 100–120 VAC, single-phase or 200–240 VAC, single-phase.
 - 2. The fan shall draw a maximum of 20.3 watts.
 - 3. The fan shall be installed in indoor spaces only.
 - 4. The fan shall be designed for continuous operation in ambient temperatures of 32– 104°F (0–40°C) and a humidity range of 20–90% (non-condensing).
 - 5. The fan's motor unit and motor unit trim shall be available in black or white as specified by the architect or owner.
- E. Safety Cable
 - 1. The fan shall be equipped with a safety cable that provides an additional means of securing the fan assembly to the building structure. The safety cable shall be 1.5 mm in diameter and fabricated of aircraft steel.
 - 2. Field construction of safety cables is not permitted.
- F. LED Light
 - 1. An LED light shall be available.
 - 2. The LED light settings shall include on/off, Sleep Mode, and 16 dimmable light levels.
 - 3. A clear lens shall be installed on the LED light.
- G. Remote Control
 - 1. The fan shall be equipped with a compact IR remote control that allows intuitive operation of the fan in the following modes:
 - a. Speeds 0 (Off) through 7 (High).
 - b. Sleep Mode: Sleep Mode shall reduce the fan speed by one increment every hour until the lowest speed is reached. When the programmed time period ends, the fan automatically turns off. Sleep Mode is only active when Timer mode is used.
 - c. Timer Mode: In Timer Mode, the fan runs at a set speed until the programmed time period ends.
 - d. Whoosh® Mode: Silently varies fan speed to mimic cooling natural breezes.
 - 2. The remote shall control both the fan and light. Light brightness shall be increased or decreased by pressing the Up or Down Light button on the remote, and the light shall be turned on or off by pressing the Light On/Off button.

- 3. Each operating mode shall be indicated by a pattern on the fan mode indicators, which shall be located on the bottom of the fan and shall be visible from the floor. All indicators shall automatically turn off approximately five seconds after the last control button is pressed.
- 4. The remote shall be 1.6 in. wide × 5.5 in. tall × 0.9 in. thick (40 mm wide x 140 mm tall x 23 mm thick) and shall operate on two AAA batteries (included).
- H. Wi-Fi Module
 - 1. The fan shall be equipped with a Wi-Fi module.
 - 2. The module shall be installed in the fan's control box.
 - 3. Install and set up the Haiku mobile app according to the manufacturer's instructions.
 - 4. The module shall provide basic control of the fan and light using the Haiku mobile app.
 - 5. Activate Fan Eco to fully leverage the energy savings from your ceiling fan.
- I. Haiku L Wired Wall Control
 - 1. The fan shall be equipped with a Wired Wall Control in addition to the standard remote control, as specified by the architect or owner.
 - 2. The Haiku L Wired Wall Control shall control both the fan and light. Fan speed shall be increased or decreased by pressing the Up or Down Fan buttons on the wall control, and the fan shall be turned on or off by pressing the Fan On/Off button. Light brightness shall be increased or decreased by pressing the Up or Down Light buttons on the wall control, and the light shall be turned on or off by pressing the Light On/Off button.
- J. 0-10 V Module
 - 1. The fan shall be equipped with a 0–10 V module, as specified by the architect or owner.
 - 2. The module shall be installed in the fan's control box.
 - 3. The module shall provide independent control of fan speed and light intensity and shall support daisy chaining for one or up to 10 fans.
 - 4. The module shall be compatible with any 0–10 V sinking/sourcing dimmer and with most home or building automation systems.

PART 3 EXECUTION

3.1 PREPARATION

- A. The fan location must have an appropriate ceiling-mounted outlet box marked, "Acceptable for Fan Support." If there is not an appropriate outlet box already installed at the location, one must be installed on a ceiling joist or beam and be properly wired. Additional mounting options may be available. Consult the installation guide for additional details.
- B. The fan location must be free from obstacles such as lights, cables, or other building components.
- C. Check the fan location for proper electrical requirements. Consult the installation guide for appropriate circuit requirements.

3.2 INSTALLATION

- A. Install the fan and optional wired wall control according to the manufacturer's installation guide, which includes acceptable mounting methods.
- B. Required Distances
 - 1. Airfoils must be at least 7 ft (2.1 m) above the floor.
 - 2. The airfoils must have at least 2 ft (0.6 m) clearance from all obstructions.

3. The fan shall not be located where it will be subjected to rain or continuous wind gusts or in close proximity to the outputs of HVAC systems or radiant heaters. Consult the installation guide for additional details.

END OF SECTION

	5	4		
		LEGEND - SITE PLAN	LEGEND - DEMOLITION FLOOR PLAN	LEGEND - FLOOR & DIMENSION PLANS
		SITE COMPONENTS (FENCES, HYDRANTS, SIDEWALKS, ETC) INDICATED BELOW IN THIS LEGEND ARE DRAWN AT 1/16" = 1'-0" SCALE. COMPONENTS SHALL APPEAR HALF THE SIZE (SMALLER) ON PLANS DRAWN AT 1/32" = 1'-0" SCALE.	BUILDING COMPONENTS (DOORS, WALLS, ETC) INDICATED BELOW IN THIS LEGEND ARE DRAWN AT 1/4" = 1'-0" SCALE. COMPONENTS SHALL APPEAR HALF THE SIZE (SMALLER) ON PLANS DRAWN AT 1/8" = 1'-0" SCALE.	BUILDING COMPONENTS (DOORS, WALLS, ETC) INDICATED BELOW IN THIS LEGEND ARE DRAWN AT 1/4" = 1'-0" SCALE. COMPONENTS SHALL APPEAR HALF THE SIZE (SMALLER) ON PLANS DRAWN AT 1/8" = 1'-0" SCALE.
		• BOLLARD		
		0-0-0 FENCE LINE (ORNAMENTAL)		A101A NEW DOOR IN NEW WALL. SEE DOO SCHEDULE.
D		FENCE LINE (CHAIN LINK)		NEW WINDOW. SEE WINDOW TYPES TAGS ARE PLACED ON THE FRONT SIDE OF WINDOW.
		PROPERTY LINE		NEW METAL STUD WALL. SEE WALL TAGS ON DIMENSION PLANS AND WALL TYPES SHEET A501A FOR MOR
		್ FIRE HYDRANT		NEW BRICK MASONRY WALL. SEE
		☆ LIGHT POLE	EXISTING WALL TO REMAIN	STRUCTURAL DRAWINGS FOR MORE INFORMATION.
		POWER POLE		DRAWINGS FOR MORE INFORMATION.
		CATCH BASIN	EXISTING PLUMBING FIXTURES TO REMAIN	NEW CAST-IN-PLACE CONCRETE WALL. SEE WALL TAGS ON DIMENSION PLANS FOR MORE INFORMATION.
		CONCRETE SIDEWALK OR PAVING WITH CONTROL JOINTS	EXISTING PLUMBING FIXTURES TO BE DEMOLISHED	NEW PLUMBING FIXTURES
C	GENERAL NOTES	GENERAL NOTES - DEMOLITION SITE PLAN	GENERAL NOTES - DEMOLITION FLOOR PLAN	GENERAL NOTES - FLOOR & DIM. PLANS
В	 A. SINGULIARA, MECHANICAS, AND ELECTRICAL DRAWINGS. IT SHALL BETTER RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE IDSTALLATION OF MECHANICAL OR ELECTRICAL CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND CONSULTING ENGINEERS ON MINGS SHALL BE REQUERT TO THE ARCHITECTS ATTENTION FOR CLARRIFCATION, ANY CONSTRUCTION INSTALLID IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALLS CORRECTED THE CHENERAL CONTRACTOR AT HIS/INECENT AT NO EXPENSE TO THE OWNER OR ARCHITECT. ALL WORK SHALL COMPLY WITH THE CURRENT ADA ACCESSIBILITY GUIDELINES (AMERICANS WITH DISABILITIES ACT). REFERE TO THE CODE COMPLIANCE PLAN FOR APPLICABLE CODES GOVERNING THIS WORK. CODE REQUIREMENTS AND REGULATIONS SHALL BE CONSIDERED AS MININUM, WHERE THE CONTRACTOR CULAN FOR APPLICABLE CODES GOVERNING THIS WORK. CODE REQUIREMENTS AND REGULATIONS SHALL BE CONSIDERED AS MININUM, WHERE THE CONTRACTOR DECLIMENT SHALL BE CONSIDERED AS MININUM, WHERE THE CONTRACTOR DECLIMENT SHALL BE CONSIDERED AS MININUM, WHERE THE CONTRACTOR SERETRENCED WITHIN THE ICC CODES AND THE AMERICANS WITH DISABILITES ACT. THE CONTRACTOR SHALL BE REPORTED EDITIONS OF THE INTERNATIONAL CODE COUNCIL CODES, THE CODES AND STANDARDS REFERENCED WITHIN THE ICC CODES AND THE AMERICANS WITH DISABILITES ACT. THE CONTRACTOR SHALL PROVIDE ADEQUATE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS PER INFPA 241. TEMPORARY PASSAGES SHALL BE PROVIDED AS REQUIRED, RIDO THE PROPER LOCALION AND SIZE OF OPENINGS FOR ALL TRADES AND SHALL CONDITIONS AND NOTIFY THE AMERICANS WITH DISABILITES ACT. THE CONTRACTOR SHALL VERIEY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT. THE CONTRACTOR SHALL VERY ALL EXISTING CONDITIONS AND NOTIFY THE AMERICANS WITH DISABILITES ACT. THE CONTRACTOR SHALL VERY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT. THE CONTRACTOR SHALL VERY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT.<	 Contractor of the second state of	 A TACK DOGUGAL CALL AND A CALL AND	 A. REPER IO THE CODE COMPLANCE PLANE, POR INDICATION OF THE RATED WALLS. B. AT LOCATIONS WITHOUT CELINGS (ROOM IS OPEN TO STRUCTURE ABOVE), EXTEND BOARD, INSULATION & CMU, WHERE APPLICABLE) TO THE METAL ROOF DECK ABOVE. C. WHEN FLOOR HEIGHT VARIES IN A ROOM, THE CELING HEIGHT SHOWN IS THE HEIGH ABOVE THE FLOOR ATTHE ENTRY, UND. D. SEE INTERIOR ELEVATIONS FOR TOILET AND BATHROOM ACCESSORIES (GRAB BARS, MIRRORS, DISPENSERS, EC.). E. AT ALL VERTICAL EDGES OF INTERIOR CMU WALLS THAT ARE VISIBLE, USE BULLINOSE CMU BLOCKS FROM FINISHED FLOOR ELEVATION TO A HEIGHT OF 7-4". F. FOR CLARITY SAKE, DIMENSIONS ARE NOT SHOWN AT THE FOLLOWING LOCATIONS: o. WHERE THE FACE OF WALL COINCIDES WITH THE MAIN GRID LINE OR 4-0".X JUBGRID. G. VERIEY WITH ARCHITECT FOR DIMENSIONS NOT SHOWN. H. SEE STRUCTURAL DRAWINGS FOR CMU WALLS, MASONRY COLUMNS, AND MASONR BEAMS. SEE BUILLINGE EXTERIOR ELEVATIONS FOR VENEER TYPES. SEE FINISH SCHEDUL FOOR SHITHOR ENAVIOUS FOR FLOOR BEAMS. SEE BUILDING EXTERIOR ELEVATIONS FOR VENEER TYPES. SEE FINISH SCHEDUL FOOR SHITH ONE D. SCHEDUL FOOR SHITO FLOOR SHITS CHEDUL FOOR SHITH SCHEDUL FOR THE OR FLOOR SHITS SCHEDUL FOOR SHITH SCHEDUL FOR THERE AND PROVIDE RECESS IN CONCRET. FLOOR SLABS AND PROVIDE RECESS IN CONCRET. FLOOR SLABS AND PROVIDE RECESS IN CONCRETE FLOOR SLAB THAT IS ON GRADE. SHALL BE AT 1/8" PER FOOT TOWARDS SHE FLOOR BEAMS, AND OPENINGS IN FLOOR SLABS AND PROVIDE RECESS IN CONCRETE FLOOR SLAB THAT IS NOT ON GRADE. SEE DOOR AND WINDOW SCHEDULE FOR THE REQUIRED DOOR AND WINDOW OPENING SIZE AND THE SCHERT FOR CERAMIC THE FINISH. SLOPE SHALL BE AT 1/8" PER FOOT TOWARDS SHE SCHERT FOR CERAMIC THE FINISH. SLOPE SHALL BE AT 1/8" PER FOOT TOWARDS THE FLOOR SLAB THAT IS NOT ON GRADE. SEE DOOR AND WINDOW SCHEDULE FOR THE REQUIRED DOOR AND WINDOW OPENING SHE FLOOR DRAIN. SEE SHALL BE SKALED COMPLETLY WITH HER ARTED SALANTS. FILL GAP ENTREET THE REARTER WALLS SHA
	 O. ABBREVIATIONS THROUGHOUT THE PLAN ARE THOSE IN COMMON USE. THE ARCHITECT SHALL DEFINE THE INTENT OF ANY IN QUESTION. P. THE CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF WATER AND DRAIN INSTALLATIONS AND OTHER REQUIRED SERVICES WITH EQUIPMENT MANUFACTURERS. 	GENERAL NOTES - DOOR SCHEDULE	GENERAL NOTES - EXTERIOR ELEVATIONS	GENERAL NOTES - BUILDING SECTIONS
A	 Q. ALL WOOD CANTS, NAILERS, CURBS, ETC. THROUGHOUT JOB SHALL BE FIRE RETARDANT PRESSURE-TREATED, AS PER I.B.C. CURRENT VERSION. SEE RELEVANT DETAILS. R. CONTRACTOR SHALL REFER TO THE PROJECT MANUAL FOR A COMPLETE LIST OF GENERAL CONDITIONS, SPECIAL CONDITIONS AND OTHER NOTES. S. MAINTAIN ALL EXISTING SPRAY-APPLIED FIRE PROOFING ON STEEL STRUCTURAL MEMBERS. WHERE EXISTING FIRE PROOFING IS REMOVED FOR INSTALLATION OF NEW BEAMS, UNISTRUTS, ETC. THE CONTRACTOR SHALL PATCH WITH EQUIVALENT FIRE PROOFING MATERIAL TO MATCH ADJACENT EXISTING MATERIAL IN TYPE AND DEPTH. T PROVIDE PRECAUTIONS SUCH AS FIRE EXTINGUISHERS, FIRE APPARATUS ACCESS, ETC, DURING CONSTRUCTION TO MAINTAIN FIRE PROTECTION AND SAFETY FOR CONSTRUCTION CREWS AND FIREFIGHTERS. IFC 3304 	 B. SUB-CONTRACTOR UNDER SECTION 'ALUMINUM ENTRANCES AND STOREFRONT', SHALL PROVIDE ALL THE DOOR HARDWARE FOR ALL ALUMINUM DOORS. SEE DOOR SCHEDULE FOR ALUMINUM DOORS AND THE REQUIRED HARDWARE. C. SUB-CONTRACTOR UNDER SECTION 'DOOR HARDWARE', SHALL PROVIDE ALL THE DOOR HARDWARE FOR ALL THE WOOD AND HOLLOW METAL DOORS. SEE DOOR SCHEDULE FOR WOOD AND HOLLOW METAL DOORS AND THE REQUIRED HARDWARE. D. ALL EXTERIOR DOORS SHALL BE INSULATED. E. FIELD VERIFY WINDOW AND DOOR FRAME OPENING SIZES BEFORE FRAME INSTALLATION, OVERALL DIMENSIONS INDICATED FOR EACH FRAME TYPE ARE ROUGH OPENING SIZES IN WALLS. CONTRACTOR SHALL ADJUST INNER DIMENSIONS AS REQUIRED TO MAKE DOORS AND WINDOWS WORK. F. ELECTRICAL DEVICES SUCH AS MAG. LOCKS, CARD READERS AND ALARM SYSTEMS BEING PART OF THE DOOR FUNCTION ARE INCLUDED AS PART OF THE ELECTRICAL PLANS AND THE HARDWARE GROUPS. GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE LOCATIONS OF CARD READERS ETC. SHOWN ON ARCHITECTURAL AND ELECTRICAL DRAWINGS WITH ALL TRADES INVOLVED. G. COORDINATE DOORS & GATES OUTSIDE BUILDING WITH SITE PLAN. 	SCHEDULE FOR DOOR OPENING SIZE. SEE LEGEND FOR BRICK VENEER TYPE. B. NOT ALL MECHANICAL GRILLES ARE SHOWN ON THESE ELEVATIONS. COORDINATE ALL GRILLE LOCATIONS WITH MECHANICAL DRAWINGS. C. ALL EXTERIOR WALL FINISHES ARE TO BE 6" ABOVE FINISH GRADE TYPICAL. SEE WALL SECTIONS. D. ALL FINISHES TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS AND PER SPECIFICATION SECTION IN THE PROJECT MANUAL.	 A. DOILDING SECTIONS INDUCATE THE RELATIONSTIP'S BETWEEN THE DIFFERENT ROOMS AND AREAS OF THE FACILITY. THE INTENT IS TO ILLUSTRATE THE CONCRETE FLOOR SLA ON GRADE, FLOOR TO FLOOR HEIGHT, ROOF SLOPES, EXTENT OF REQUIRED STRUCTURAL FILL UNDERNEATH THE FOOTINGS, CONCRETE SLAB ON GRADE, ETC. REFER TO RELEVANT WALL SECTIONS FOR DETAILED DESCRIPTION OF WALL AND ROC CONSTRUCTION. B. SEE CIVIL DRAWINGS FOR BUILDING FINISHED FLOOR ELEVATION AND HOW REFERENCE ELEVATION OF 100'-0" RELATES TO THE EXISTING CONTOUR LINES AND SPOT ELEVATIONS. SOIL CUT AND FILL REQUIREMENTS SHALL BE DETERMINED BASED O THE SITE EXISTING CONTOUR LINES AND PROPOSED NEW CONTOUR LINES. SEE GEOTECHNICAL STUDY FOR SOIL COMPACTION AND EXTENT OF STRUCTURAL FILL REQUIREMENTS.

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KEYED NOTES

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09.27 DOOR THRESHOLD. SEE FLOOR COVERING TRANSITION DETAILS ON SHEET A603A.
10.30 DASHED LINE INDICATED WALL PROTECTION WAINSCOT. WALL PROTECTION TO SPAN FROM TOP OF BASE TO 4'-O" ABOVE BASE.

GENERAL NOTE

SEE SHEET A603A FOR FINISH SCHEDULE AND DETAILS.





KEYED NOTES

SCALE: 3" = 1'-0"

STUD SIZE

 $\langle 4 \rangle$

 $\langle 7 \rangle \langle 9 \rangle$



- 5. BOTTOM TRACK PER MFR. 6. SILL GUIDE PER MFR.
- 10. LINE OF FRAME ABOVE. 11. STILE POCKET PER MFR.
- 12. FOR JAMB FRAMING CONDITION SEE DETAIL 7/A502A. PROVIDE 16 GA STUDS AT JAMBS AS OPPOSE TO 18GA AS CALLED OUT ON DETAIL 7/A502A.











MANUFACTURER	STYLE	MODEL #	COLOR	COMMENTS
SHAW CONTRACT GROUP	HAND DRAWN/ STIPPLE TILE	5T116	SLATE 13585	1
SHAW CONTRACT GROUP	NOBLE MATERIALS/ FORM TILE	5T136	CORNERSTONE COPPER 33555	1
MANNINGTON COMMERCIAL	BIOSPEC MD	-	FLAX 15361	-
MANNINGTON COMMERCIAL	BIOSPEC MD	-	Sandrift 15203	-
CROSSVILLE	NOTORIOUS	NTR06	FILM NOIR	4
SHERWIN WILLIAMS	6401-72656	B90A00101-20	HAZE GRAY	-
CROSSVILLE	NOTORIOUS	NTR06.11212MOS	FILM NOIR	-
SHAW CONTRACT GROUP	GRADIENT	5A153	ADRIFT 34512	2
SHAW CONTRACT GROUP	GRADIENT	5A153	ELEMENT 34583	2
MANNINGTON COMMERCIAL	BIOSPEC MD	-	FLAX 15361	3
MANNINGTON COMMERCIAL	BIOSPEC MD	-	SANDRIFT 15203	3
CROSSVILLE	NOTORIOUS	NTR06.10612CBS	FILM NOIR	-
ROPPE	STANDARD TOE	700 SERIES	CHARCOAL 123	-
	1			
SHERWIN WILLIAMS	EGGSHELL FINISH	SW7005	PURE WHITE	9
SHERWIN WILLIAMS	EGGSHELL FINISH	SW7043	WORLDLY GRAY	-
SHERWIN WILLIAMS	EGGSHELL FINISH	SW0023	PEWTER TANKARD	-
SHERWIN WILLIAMS	EGGSHELL FINISH	SW6243	DISTANCE	-
SHERWIN WILLIAMS	EGGSHELL FINISH	SW6230	RAINSTORM	-
CROSSVILLE	NOTORIOUS	NTR01	FEMME FATALE	5
SHERWIN WILLIAMS	EGGSHELL FINISH	SW7132	WATER SQUIRT	-
SHERWIN WILLIAMS	-	-	-	8
SHERWIN WILLIAMS	FLAT FINISH	SW7005	PURE WHITE	9
			1	
SHERWIN WILLIAMS	SEMI GLOSS	SW7047	PORPOISE	10
LAMIN-ART	VELLUM FINISH	3056-VT	MYSTIC WOOD	-
CORIAN SOLID SURFACE	-	-	WHITE JASMINE	11
STARON SOLID SURFACE	-	A3181	BRIGHT WHITE BW010	-
CONSTRUCTION SPECIALTIES	ACROVYN CORNER GUARDS	SSM-20AN	WHITE 949	6
CONSTRUCTION SPECIALTIES	ACROVYN	-	WHITE 949	7
CONSTRUCTION SPECIALTIES	ACROVYN	-	DRIFTWOOD 262	7
1	1			1
INPRO ARCHITECTURAL PRODUCTS	CLICKEZE STYLE 2	SHEILD FABRIC BY PANAZ	ABLOOM: EUCALYPTUS	-

. BASIS-OF-DESIGN FOR FINISHES: FINISHES INDICATED ON THE FINISH SCHEDULE ARE BASED ON THE NAMED MANUFACTURER AND THEIR PRODUCTS. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE NAMED PRODUCT OR A COMPARABLE PRODUCT BY ONE OF THE APPROVED MANUFACTURERS LISTED IN THE SEE "SAMPLE LAYOUTS" INDICATED ON FINISH PLANS FOR CLARIFICATION ON HOW DIFFERENT TYPES OF REQUIRED FINISHES ARE INDICATED WITH FINISH TAGS FOR FLOORS, WALLS, MISCELLANEOUS SURFACE, ETC. SEE FINISH FLOOR PLANS FOR REQUIRED FINISHES (INDICATED WITH FINISH TAGS SUCH AS F1, B1, W1, ETC.). LINE OF TRANSITION BETWEEN DIFFERENT TYPES OF FLOOR COVERING IS INDICATED ON THE FINISH FLOOR PLANS. IN PLACES WHERE TWO DIFFERENT FLOOR COVERING ABUTS EACH OTHER, CONTRACTOR SHALL FOLLOW THE RELEVANT APPLICABLE "FLOOR COVERING TRANSITION DETAILS" INDICATED IN THIS CONSTRUCTION DOCUMENTS. WHERE TWO ROOMS ARE REQUIRED TO HAVE DIFFERENT FLOOR COVERINGS, LINE OF TRANSITION SHALL TYPICALLY OCCUR BELOW THE CENTER OF THE DOOR (LOCATED BETWEEN THE TWO ROOMS). AS THESE TRANSITION LINES ARE NOT INDICATED BELOW THE DOOR ON THE FINISH FLOOR PLANS, CONTRACTOR SHALL PROVIDE METAL TRANSITION STRIP (MANUFACTURED BY SCHLUTER OR EQUIVALENT) AS REQUIRED. AT EXTERIOR DOORS, PROVIDE ALUMINUM THRESHOLD MATCHING THE DOORWAY. FOR REMODEL PROJECTS, COORDINATE WITH DEMOLITION FLOOR PLAN AND NEW FLOOR PLAN TO DETERMINE WHERE NEW ABUTS LINE OF TRANSITION BETWEEN DIFFERENT TYPES OF WALL FINISH IS INDICATED ON THE INTERIOR ELEVATIONS AND FINISH FLOOR PLANS. FOR REQUIRED WALL PROTECTION TYPE (INDICATED WITH TAG WP1, WP2, ETC.), ON WALLS, COORDINATE WITH FINISH THERE ARE MISCELLANEOUS SURFACES THAT ARE EXPOSED AND WILL REQUIRE A FINISH. SUCH MISCELLANEOUS SURFACES ARE INDICATED IN THE DRAWINGS WITH PAINT ALL EXPOSED VISIBLE ITEMS SUCH AS METAL DECK, STEEL ANGLES, STEEL BEAMS, SPECIFICALLY NOTED AS A SURFACE NOT TO BE PAINTED, OR IF NATURAL FINISH IS REQUIRED. PAINT SURFACES USING FIELD COLORS AND ACCENT COLORS SPECIFIED BY THE ARCHITECT. DO NOT PAINT CONCEALED SURFACES, FINISHED METAL SURFACES, OPERATING PARTS, AND PRE-FINISHED ITEMS. VERIFY PAINTING SURFACE (SUCH AS STEEL, CONCRETE, MASONRY, GYPSUM BOARD, WOOD, ETC.) AND USE THE APPROPRIATE PAINT AND METHOD INDICATED IN THE PROJECT MANUAL UNDER RELEVANT SPECIFICATION SECTION. ALL HOLLOW METAL DOOR AND WINDOW FRAMES SHALL BE PAINTED. USE SEMI-GLOSS FINISH ON DOOR FRAMES. . IN ROOMS AND AREAS WHERE GYPSUM BOARD CEILING IS INDICATED, PAINT CEILING WITH THE SAME COLOR AND TYPE AS ADJACENT WALLS. IN WET ROOMS (LIKE RESTROOM, KITCHEN, ETC.) WHERE EPOXY PAINT IS INDICATED AS A REQUIREMENT ON WALLS, PAINT CEILINGS AND SOFFITS WITH EPOXY TYPE PAINT. ALL GYPSUM BOARD SOFFITS SHALL BE PAINTED. COORDINATE ACCENT COLOR SEE INTERIOR ELEVATIONS FOR PLASTIC LAMINATE FINISHES OVER CABINETS, COUNTERTOPS, WALLS, ETC. PLASTIC LAMINATE FINISHES ARE INDICATED AS PL1, PL2, ETC. COUNTERTOPS THAT ARE MONOLITHIC MATERIAL (SUCH AS SOLID SURFACE, QUARTZ, ETC. AND NOT PLASTIC LAMINATE WRAPPED), ARE INDICATED AS MM1,

- WHERE PORCELAIN AND/OR CERAMIC TILE FINISHES ARE INDICATED, PROVIDE METAL EDGE STRIPS (MANUFACTURED BY SCHLUTER OR EQUIVALENT) AT ALL OUTSIDE IN ROOMS AND AREAS (SUCH AS TOILET ROOMS, SHOWERS, ETC.) WHERE CERAMIC
- ROW OF WALL TILE FIRST PER DETAIL 1/A603B. PROVIDE QUARTZ THRESHOLD AT DOORS TO TOILET ROOMS THAT ARE USED BY MULTIPLE USERS. SEE DETAILS 3 & 4 SHEET

Logan Regional Hospital Sleep Lab

Addendum #2 Dec 4, 2020

Footing and foundation plan

See B1/SB501 plan showing new footing to support fire rated stud wall in the crawl space.

Floor framing Plan

See B1/SF101 plan showing added fire rated stud wall below floor. See wall type 'C6' on the architectural drawings.

Sheet SF501

See added detail A5/SF501 fire rated stud wall below floor. 7/8" Thick OSB is in addition to the 5/8" thick gypsum board on either side of the wall per wall type "C6". See revised Detail A3/SF501 added blocking. Top of wall condition to be similar.

D	5			4
C				
В				
19_ChuckBurton.rvt		B1 FOOTIN SB101 SCALE: 1/4	IG AND FOUNDATION P 8" = 1'-0"	LAN
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EXISTING BUILDING NOTES

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1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DETAILING, FABRICATING, ERECTING OR INSTALLING ANY STRUCTURAL ELEMENT. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM IN A TIMELY MANNER SUCH THAT WORK WILL NOT BE DELAYED.

2. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING OF EXISTING STRUCTURE DURING CONSTRUCTION.

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B1 FLOOR FRAMING PLAN

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SF101 SCALE: 1/8" = 1'-0"

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EXISTING BUILDING NOTES

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1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DETAILING, FABRICATING, ERECTING OR INSTALLING ANY STRUCTURAL ELEMENT. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM IN A TIMELY MANNER SUCH THAT WORK WILL NOT BE DELAYED.

2. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING OF EXISTING STRUCTURE DURING CONSTRUCTION.

FLOOR FRAMING PLAN NOTES

1. COORDINATE SIZE AND LOCATION ALL MECHANICAL FLOOR PENETRATIONS WITH MECH DRAWINGS.

2. COORDINATE SIZE AND LOCATION OF ALL MECHANICAL PENETRATIONS THRU PONY SUPPORT WALL BELOW WITH MECH DRAWINGS. SEE DETAIL C3/SF501 FOR REINFORCING REQUIRED.

3. SEE DETAIL A3/SF501 FOR TYPICAL NON-BEARING INTERIOR STEEL STUD WALL CONNECTION TO EXISTING FLOOR DECK.

4. SEE D1/SF501 FOR TYPICAL INFILL DETAIL AT EXISTING FLOOR OPENINGS.

5. SEE D2/SF501 FOR TYPICAL NEW OPENING DETAIL IN EXISTING FLOOR.

D JOIST HANGER SCHEDULE					
IOUNTED HANGER	MINIMUM TOP FLANGE HANGER				
524	PF24				
24-2	HU24-2TF				
526	JB26				
26-2	HU26-2TF				
528	JB28				
28-2	HU28-2TF				
210	JB210A				
210-2	HUS210-2TF				
212	JB212A				
212-2	HUS212-2TF				

	~ ~		
	$\sim \sim \sim$		
600T150-54 x CONT ATTACH TO NEW BLKG W/2-SIMPSON SDS		_	FIRERATED WALL ABV SEE ARCH
16" O.C. PREDRILL CONT STEEL STUD TRACK AS NEEDED			VERTICLIP SLD 600 AT EACH STEEL STUD
NEW BLKG SEE A3/SF501			EXIST FLOOR SHEATHING
EXIST WOOD JOISTS			600S162-54 @ 16" O.C.
7/8" THICK OSB WALL			FIREWALL
SHEATHING ATTACH W/			
#10 SCREW @ 4" O.C.			EA STUD
600T150-54 x CONT —			NEW CONC FTNG REINF
BOTTOM TRACK.			W/2-#5 x CONT. TOP OF
HILTI PAF @ 16" O.C.			FTNG TO MATCH EXISTING FTNG
	1'-6",		
Detail Name	- <u>-</u>		
A5 DETAIL AT NEW FIREWALL	_		
SF501 NO SCALE			
	\sim		

ADDENDUM #2

DATE: December 4, 2020

PROJECT NO: 19296

PROJECT: Intermountain Logan Regional Hospital Sleep Lab

The following revision, additions, deletions, and/or items of clarification shall hereby be included as an integral part of the Contract Documents for the above-listed project and shall be fully binding. All other requirements of the original plans and specification shall remain in effect in their respective order.

DIVISION - 22 & 23

DRAWINGS

SHEET - M112

1. Provide a 12x12 face supply diffuser in Med Gas Storage A119. Modify the size of the main duct serving the space from 8" dia. to 10" dia. See attached.

SHEET - M601

1. Modify Packaged Rooftop Unit Schedule. See attached.

SHEET - P112

- 1. Add electric water cooler as shown. See attached.
- 2. Provide a quick response fire sprinkler head and associated piping in Med Gas Storage A119. See Attached.

SHEET - P501

1. Add Detail 12/P501, Sprinkler head detail. See attached.

SHEET - P601

1. Add electric water cooler to Plumbing Fixture Schedule as shown. See attached.

SPECIFICATIONS

SECTION - 226313 GAS PIPING FOR LABORATORY AND HEALTHCARE FACILITIES

1. Add section 1.5-G, 1.5-H, and 3.3-T to clarify certification and inspection requirements.

PRIOR APPROVALS

The following manufacturers, trade names and products are allowed to bid on a name brand only basis with the provision that they completely satisfy all and every requirement of the drawings, specifications and all addenda shall conform to the design, quality and standards specified, established and required for the complete and satisfactory installation and performance of the building and all its respective parts.

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Manufacturer Sloan Sloan AO Smith State

Comments Not Approved

Not Approved Not Approved Approved Approved Page 2 of 2

Roof Exhaust Fans Ceiling Exhaust Fans Nailor Electric Baseboard Heater Electric Duct Heater ACME ACME VAV Boxes Redd-I (TPI Corp) Redd-I (TPI Corp) Not Approved Not Approved Not Approved Approved Not Approved

Document27

- C. Material Certificates: Signed by Installer certifying that medical gas piping materials comply with requirements in NFPA 99 for positive-pressure medical gas systems.
- D. Brazing certificates.
- E. Certificates of Shop Inspection and Data Report for Bulk Gas Storage Tanks: As required by ASME Boiler and Pressure Vessel Code.
- F. Field quality-control reports.
- G. Indicate the company and contractor that will install the medical gas systems and provide a copy of the medical gas installer's certification prior to work beginning on the system.
- H. Indicate the company and individual that will conduct the third-party system testing, verification, and inspections and provide a copy of the verifier's certifications prior to work beginning on the system.

1.6 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For medical and specialty gas piping specialties to include in emergency, operation, and maintenance manuals.

1.7 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Quick-Coupler Service Connections: Furnish complete noninterchangeable medical gas pressure outlets and suction inlets.
 - a. Medical Oxygen: Equal to 10 percent of quantity installed, but no fewer than 10 units.
 - 2. D.I.S.S. Service Connections: Furnish complete medical gas pressure outlets and suction inlets complying with CGA V-5.
 - a. Medical Oxygen D.I.S.S. No. 1240: Equal to 10 percent of quantity installed, but no fewer than 10 units.

1.8 QUALITY ASSURANCE

- A. Installer Qualifications:
 - 1. Medical Gas Piping Systems for Healthcare Facilities: According to ASSE Standard #6010 for medical-gas-system installers.
 - 2. Bulk Medical Gas Systems for Healthcare Facilities: According to ASSE Standard #6015 for bulk-medical-gas-system installers.
 - 3. Shape-Memory-Metal Coupling Joints: An authorized representative who is trained and approved by manufacturer.

- Q. Install sleeves for piping penetrations of walls, ceilings, and floors. Comply with requirements for sleeves specified in Section 220517 "Sleeves and Sleeve Seals for Plumbing Piping."
- R. Install sleeve seals for piping penetrations of concrete walls and slabs. Comply with requirements for sleeve seals specified in Section 220517 "Sleeves and Sleeve Seals for Plumbing Piping."
- S. Install escutcheons for piping penetrations of walls, ceilings, and floors. Comply with requirements for escutcheons specified in Section 220518 "Escutcheons for Plumbing Piping."
- T. Medical gas storage and use systems are to be installed by a properly licensed contractor and shall be rough-in inspected and pressure tested as required and witnessed by the Fire Department. Inspection prior to concealment is required.

3.4 VALVE INSTALLATION

- A. Install shutoff valve at each connection to healthcare equipment and specialties.
- B. Install check valves to maintain correct direction of gas flow from healthcare gas supplies.
- C. Install pressure regulators on gas piping where reduced pressure is required.
- D. Install emergency oxygen connection with pressure relief valve and full-size discharge piping to outside, with check valve downstream from pressure relief valve, and with ball valve and check valve in supply main from bulk oxygen storage tank.

3.5 JOINT CONSTRUCTION

- A. Remove scale, slag, dirt, and debris from outside of cleaned tubing and fittings before assembly.
- B. Threaded Joints: Apply appropriate tape to external pipe threads.
- C. Brazed Joints: Join copper tube and fittings according to CDA's "Copper Tube Handbook," "Brazed Joints" chapter. Continuously purge joint with oil-free, dry nitrogen during brazing.
- D. Shape-Memory-Metal Coupling Joints: Join new copper tube to existing tube according to procedures developed by fitting manufacturer for installation of shape-memory-metal coupling joints.

3.6 GAS SERVICE COMPONENT INSTALLATION

A. Assemble patient-service console with service connections. Install with supplies concealed in walls. Attach console box or mounting bracket to substrate.

ПОРОДИНЕ ИЛИ ПОСТИОННИ ИЛИ СОСТОИ И СОСТИИХ ИЛИ ПОСЛИКИ СОЛИСТИИИ ИЛИ ПОСТИКИ. ПОРОДИНИИ ИЛИ ПОСТИИНИИ ИЛИ СОЛИКИ ИЛИ ПОСЛИКИ ИЛИ ПОСЛИКИ. ПОРОДИНИ ИЛИ ПОЛИКИ СОЛИКИ ИЛИ ПОСЛИКИ ИЛИ ПОСЛИКИ. ПОРОДИНИ ИЛИ ПОЛИКИ ИЛИ ПОЛИКИ ИЛИ ИЛИ ПОРОДИНИ ИЛИ ПОЛИКИ ИЛИ ИЛИ ИЛИ ПОРОДИНИ ИЛИ ПОЛИКИ ИЛИ ПОЛИКИ ИЛИ ПОРОДИНИ ИЛИ ПОЛИКИ ИЛИ ИЛИ ПОРОДИНИ ИЛИ ПОЛИКИ ИЛИ ИЛИ ИЛИ ПОРОДИНИ ИЛИ ИЛИ ИЛИ ИЛИ ПОРОДИНИ ИЛИ ИЛИ ИЛИ ИЛИ ИЛИ ПОРОДИИ ИЛИ ПОРОДИИ ИЛИ ИЛИ ПОРОДИИ ИЛИ ПОРОДИИ ИЛИ ПОРОДИИЛИ ПОРОДИИ ИЛИ ПОРОДИИ ИЛИ П
AR BAT BECOMPT (S) MANUTACTURED SUPPLY FAM FXRALSI FAL FXRALSI SUPPLY EXA MANUTACTURED SUPPLY EXA EXTERNAL EXTERNAL FXRALSI FAL ID MODEL RARRER (CRA) CASA RX MATER EXTERNAL FXRALSI FAL ID MODEL RARRER (CRA) CASA RX MATER EXTERNAL FXRALSI FAL ID MODEL RARRER (CRA) CASA a.s. c.s. EXAMPLY ID MODEL RARRER CRANDITION Ass. a.s. c.s. EXAMPLY ID COMPLIE WITH MOUL REAKED COMPORED A EDVIDED ADDITION DERICE COMPACE Ass. a.s. f.s. ID COMPLIE WITH MOUL REAKED COMPLANERS, LECTING DEGONARCY AND SPRING REALED BOTH PLANERS AND WITH READEL TO ANTAL SERVICE MITTAL SERVICE MITTAL SERVICE ID COMPLIE WITH MOULDONESSON RARRER EXECUTION MITTAL SERVICE MITTAL SERVICE MITTAL SERVICE ID COMPLIE WITH MOULDONESSON RARRER EXECUTION MITTAL SERVICE MITTAL SERVICE MITTAL SERVICE MITTAL SERVICE ID
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AND AND CALL MARKER AND CALL AND CALL AND CALL EAT EAT <theat< th=""> EAT EAT <theat< th=""></theat<></theat<>
ERV:1 DESCRIPTION DESCRIPTION <thdescription< th=""> <thd< td=""></thd<></thdescription<>
ELECTRIC BASEBOARD HEATER SCHEDULE MANUFACTURER EFFECTIVE HEAT ELECTRICAL PHYSICAL 10 MODELINUABER LOCATION (FT) (BTUH) WATTS AMPS VOLT/PH-HZ (N) NOTES 10 MODELINUABER LOCATION (FT) (BTUH) WATTS AMPS VOLT/PH-HZ (N) NOTES 10 MARLEY 256/08H WATTNG A101 8 9418 1980 9.1 208/1500 96/37 (1)(2) 11 BB 1 MARLEY 256/08H WATTNG A101 8 9418 1980 9.1 208/1500 96/37 (1)(2) 12 COLIPPED WITH HIGH TEMPERATURE CUTOUT AND ELECTRICAL DISCONNECT. ALL ACCESSORIES REQUIRED FOR FLOOR MOUNTING. 96/37 (1)(2) 13 REMOTE MOUNTED LINE VOLTAGE THERMOSTAT TO CONTROL BOTH BB-18.2. SEE PLANS FOR LOCATION. ELECTRICAL ELECTRICAL 10 MANUFACTURER AND EQUIPMENT RATE GAPACITY TEMP. MINIMUM VOL 10 MODEL MUNBER LOCATION SERVED GAPACITY TEMP. MINIMUM VOL 10
MANUPACTURER EFFECTIVE HEAT Output WIDTH: ID MODEL NUMBER LOCATION IF (IV) (IV) NOTES BB-1 MARLEY 25409NW WAITNO AT01 6 6416 1880 9.1 208/160 96/37 (IV) BB-2 MARLEY 25409NW WAITNO AT01 8 6416 1880 9.1 208/160 96/37 (IV) BB-2 MARLEY 25409NW WAITNO AT01 8 6416 1880 9.1 208/160 96/37 (IV) BB-2 MARLEY 25409NW WAITNO AT01 8 6416 1880 9.1 208/160 96/37 (IV) I) EQUIPPED WITH HIGH TEMPERATURE CUTOUT AND ELECTRICAL DISCONNECT. ALL ACCESSORIES REQUIRED FOR FLOOR MOUNTING. 2) REMOTE MOUNTED LINE VOLTAGE THERMOSTAT TO CONTROL BOTH BB-182. SEE PLANS FOR LOCATION. ELECTRIC COIL SCHEDULE MANUFACTURER MANUFACTURER EQUIPMENT RARE CAPACITY TEMP. MINIMUM ID MODER LOCATION SERVED CAPACITY TEMP. MINIMUM ID MODER LOCATION SERVED SERVED CAPACITY TEMP. MINIMUM ID MODER LOCATION SERVED<
MODE LENGTH CAPACITY MAPS VOLTPH/IZ DEPTH/HEIGHT ID MODEL LENGTH (ITU-H) WATTIS AMPS VOLTPH/IZ DEPTH/HEIGHT BB 1 MARLEY 25408NW WATTING A101 8 6416 1880 9.1 2081/160 963/7 (1)(2) BB-2 MARLEY 25408NW WATTING A101 8 6416 1880 9.1 2081/160 963/7 (1)(2) BB-2 MARLEY 25408NW WATTING A101 8 6416 1880 9.1 2081/160 963/7 (1)(2) ID GOUPPED WITH HICH TEMPERATURE CUTOUT AND ELECTRICAL DISCONNECT. ALL ACCESSORIES REQUIRED FOR FLOOR MOUNTING. E ELECTRICAL (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) ID MANUFACTURER AIR ELECTRICA ELECTRICAL (1)(1)(2) (1)(1)(2) (1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(
BB-1 MARLEY 25408NW WAITING A101 8 6416 1880 9.1 208/1/60 98/37 (1)(2) BB-2 MARLEY 25408NW WAITING A101 8 6416 1880 9.1 208/1/60 98/37 (1)(2) I) EQUIPPED WITH HIGH TEMPERATURE CUTOUT AND ELECTRICAL DISCONNECT. ALL ACCESSORIES REQUIRED FOR FLOOR MOUNTING. 2) 2) REMOTE MOUNTED LINE VOLTAGE THERMOSTAT TO CONTROL BOTH BB-162. SEE PLANS FOR LOCATION. ELECTRIC COIL SCHEDULE AND ELECTRICAL AIRFLOW ENTERING LEAVING MINIMUM ID MANUFACTURER LOCATION SERVED (CFM) (MBH) ("F) ("F) KW VOL ID MODEL NUMBER LOCATION SERVED (CFM) (MBH) ("F) ("F) KW VOL IO AND ELECTRICAL FATE CAPACITY TEMP. MINIMUM VOL ID MODEL NUMBER LOCATION SERVED (CFM) (MBH) ("F) (Y) KW VOL 20 UNT COMPLETE
ELECTRIC COIL SCHEDULE AIR ELECTRICAL AND AND AND EOUIPMENT RATE CAPACITY TEMP. MINIMUM MODEL NUMBER LOCATION SERVED (CFM) (MBH) (°F) (°F) KW VOL CRAWLSPACE EXPLOSION SERVED (CFM) (MBH) (°F) (°F) (VOL CRAWLSPACE EXPLOSION SERVED (JOLADACTURER LOCATION JOLADACTURER LOCATION JUNIT COMPLETE WITH FAN INTERLOCK, FLANGED CONNECTION, ELECTRICAL DISCONNECTING CONTACTOR, TERMINAL BLOCKS FOR CONTROL JUNIT COMPLETE WITH FAN INTERLOCK, FLANGED CONTROLTON, ELECTRICAL DISCONNECTING CONTACTOR, TERMINAL BLOCKS FOR CONTROL JUNIT COMPLETE WITH FAN INTERLOCK, FLANGED ONTROLTON, AND CONTROL TRANSFORMER. JUNO-STAGE HEATING CONTROL (INTEGRATED WITH ERV CONTROLS).
MANUFACTURER AND AIR ELECTRICAL ID MODEL NUMBER LOCATION EQUIPMENT RATE CAPACITY ENTERING LEAVING MINIMUM ID MODEL NUMBER LOCATION SERVED (CFM) (MBH) (*F) (*F) KW VOL EC-1 GREENHECK IDHC CRAWLSPACE ERV-1 400 25.76 -20 50 7.5 20 I) CAPACITY BASED ON 4.500 FEET ELEVATION. I) ID CONNECTION, ELECTRICAL DISCONNECTING CONTACTOR, TERMINAL BLOCKS FOR CONTROL ID ID <
MANUFACTURER AIRFLOW ENTERING LEAVING MINIMUM ID MODEL NUMBER LOCATION SERVED (CFM) (MBH) ('F) ('F) KW VOL EC:1 GREENHECK IDHC CRAWLSPACE ERV-1 400 25.76 -20 50 7.5 20 I) CAPACITY BASED ON 4,500 FEET ELEVATION. UNIT COMPLETE WITH FAN INTERLOCK, FLANGED CONNECTION, ELECTRICAL DISCONNECTING CONTACTOR, TERMINAL BLOCKS FOR CONTROL IIII COMPLETE WITH FAN INTERLOCK, FLANGED CONNECTION, AND CONTROL TRANSFORMER. 2) UNIT COMPLETE WITH FAN INTERLOCK, FLANGED CONNECTION, AND CONTROL TRANSFORMER. IIIII COMPLETE WITH FAN INTERLOCK, FLANGED CONTROLS). FEAN SCHEDULE MANUFACTURER MANUFACTURER APEA AIR FAN ELECTRICAL III MANUFACTURER APEA APEA BATE PORSULE VELOCITY, SPEED STATIC OUTLET FAN FAN MAX MAX
AND EQUIPMENT RATE CAPACITY TEMP. MINIMUM ID MODEL NUMBER LOCATION SERVED (CFM) (MBH) ("F) ("F) MWW VOL EC-1 GREENHECK IDHC CRAWLSPACE ERV-1 400 25.76 -20 50 7.5 20) CAPACITY BASED ON 4,500 FEET ELEVATION. UNIT COMPLETE WITH FAN INTERLOCK, FLANGED CONNECTION, ELECTRICAL DISCONNECTING CONTACTOR, TERMINAL BLOCKS FOR CONTROL ITEMP. MINIMUM ITEMP. MINIMUM ITEMP. MINIMUM ITEMP. MINIMUM ITEMP. Itemp. MINIMUM Itemp. Itemp. MINIMUM VOL (CPACITY BASED ON 4,500 FEET ELEVATION. Item on the intervention. Item on the interventinteremotion. Item on the interv
ID MODEL NUMBER LOCATION SERVED (CFM) (MBH) (°F) (WW VOL EC-1 GREENHECK IDHC CRAWLSPACE ERV-1 400 25.76 -20 50 7.5 20 ID
CAPACITY BASED ON 4,500 FEET ELEVATION. UNIT COMPLETE WITH FAN INTERLOCK, FLANGED CONNECTION, ELECTRICAL DISCONNECTING CONTACTOR, TERMINAL BLOCKS FOR CONTROL TEGRATION, MERCURY SWITCH CONTACTORS FOR SILENT OPERATION, AND CONTROL TRANSFORMER. TWO-STAGE HEATING CONTROL (INTEGRATED WITH ERV CONTROLS). FAN SCHEDULE MANUFACTURER AND AREA AREA AREA AREA AREA AREA AREA ARE
) TWO-STAGE HEATING CONTROL (INTEGRATED WITH ERV CONTROLS).
FAN SCHEDULE MANUFACTURER MANUFACTURER AIR FAN MAX MAX MAX AND AREA RATE PRESSURE VELOCITY SPEED SIZE SIZE
AIR FAN ELECTRICAL MAXIMUM MAXIMUM MAX MAX MANUFACTURER AIRFLOW STATIC OUTLET FAN MOTOR
MANUFACTURER AIRFLOW STATIC OUTLET FAN MOTOR AND AREA RATE PRESSURE VELOCITY SPEED SPEED SIZE
IDMODEL NUMBERSERVEDTYPE(CFM)(IN. WATER)(FPM)(RPM)(RPM)(HP)BHPVOLT/PH/HZ
EF-1 GREENHECK G-095-VG GEN EXHAUST - WEST DOME 275 0.5 237 1430 1725 1/6 0.06 115/1/60 EF-2 GREENHECK G-099-VG GEN EXHAUST - EAST DOME 800 0.5 833 1488 1725 1/4 0.14 115/1/60
ALL CAPACITIES AT 4,500 FEET ELEVATION.
ROOF MOUNTED DIRECT DRIVEN EXHAUST FAN. COMPLETE WITH DC BRUSHLESS MOTOR (MINIMUM 85% EFFICIENT), INTEGRAL THERMAL OVERLOAD PROTECTION, ELECTRICAL DISCO
MANUFACTURER NOMINA AND CAPACI [®]
ID MODEL NUMBER AREA SERVED (TONS BTUL1 VOBK PCG6B481002X4 STAFE ABEA 4
RTU-1 FORK PCG6B481002X4 STAFF AREA 4 RTU-2 YORK PCG6B481252X4 STAFF AREA 4
(1) ALL CAPACITIES AT 4,500 FEET ELEVATION.
(2) COOLING BASED ON 95DB/62WB DEG F AMBIENT. HEATING BASED ON -20 DEG F
(4) UNIT COMPLETE WITH AND SPRING ISOLATED SEISMIC RATED ROOF CURB SIZE
(5) COMPLETE WITH 100% ECONOMIZER & MODULATING POWER EXHAUST. SINGLE (6) UNIT COMPLETE WITH STAINLESS STEEL HEAT EXCHANGER, 2 STAGE HEATING
(7) PROVIDE BACNET CONTROLLER TO ALLOW REMOTE MONITORING AND CONTRO
ID MANUFACTURER LOCATION
AC-5/CU-5 DAIKIN DATA CLOSET A132 WALL
(1) SINGLE POINT POWER CONNECTION FOR INDOOR AND OUTDOOR UNITS. DISCO (2) SYSTEM COMPLETE WITH FACTORY SUPPLIED FIELD INSTALLED WALL MOUNTE
(3) REFRIGERANT LINES SIZED IN ACCORDANCE WITH MANUFACTURER'S SUGGEST (4) EQUIPPED WITH VARIABLE SPEED INVERTER DRIVEN COMPRESSOR PROVIDING
(5) PROVIDE AND INSTALL INLINE CONDENSATE PUMP. PUMP SHALL BE CAPABLE C
(5) PROVIDE AND INSTALL INLINE CONDENSATE PUMP. PUMP SHALL BE CAPABLE C

4

IER	ERGY RECOVERY AIR HANDLER SCHEDULE													
OVERY	(3)					FILTERS		ELECTRICAL				PHYSICAL		
	CAPACITY									SUPPLY	EXHAUST	CABINET		
	SENSIBLE/	SUPPLY	SUPPLY	EXHAUST	EXHAUST	SUPPLY	RETURN	VOLT/		FAN	FAN	LENGTH/		
IG	LATENT	EAT	LAT	EAT	LAT	FILTER	FILTER	PH/	MCA/	MOTOR	MOTOR	WIDTH/HEIGHT	WEIGHT	
ION	(MBH)	DB/WB	DB/WB	DB/WB	DB/WB	(MERV)	(MERV)	HZ	MOP	BHP / HP	BHP / HP	(IN)	(LBS)	NOTES
ER	4.68	95/62	77.3/62.2	75/62	89.1/64.6	0	0	202/1/60	9.0/15	0.5	0.5	46/04/09	447	(1)(2)(2)(4)
ER	34.5	-20	59.3	70/53.3	8/7.9	- 8 	ð	208/1/60	8.9/15	0.5	0.5	40/34/28	447	(1)(2)(3)(4)

3

SIZED TO LOCATE OA INTAKE 36" ABOVE THE ROOF.

FILTER SENSORS ON OUTDOOR & EXHAUST, ROTATION SENSOR, FROST CONTROL, AND OA INTAKE AND DISCHARGE TEMPERATURE MONITORING.

	PHYSICAL	
	WIDTH/	
	DEPTH/HEIGHT	
ΉZ	(IN)	NOTES
C	96/3/7	(1)(2)
C	96/3/7	(1)(2)

LE				
	ELECTRICAL		PHYSICAL	
			DUCT	
LEAVING			WIDTH/	
TEMP.	MINIMUM		HEIGHT	
(°F)	KW	VOLT/PH/HZ	(IN)	NOTES
50	7.5	208/1/60	10/10	(1)(2)(3)

	ELECTRIC	AL		PHYSICAL		
MAX						
FAN	MOTOR			DIAMETER/		
SPEED	SIZE			HEIGHT	WEIGHT	
(RPM)	(HP)	BHP	VOLT/PH/HZ	(IN)	(LBS)	NOTES
1725	1/6	0.06	115/1/60	22/16	75	(1)(2)
1725	1/4	0.14	115/1/60	24/25	75	(1)(2)

OVERLOAD PROTECTION, ELECTRICAL DISCONNECT,

	PACKAGED ROOFTOP UNIT SCHEDULE																					
			SUPPLY FAN			HEATING SECTION				COOLING SECTION			FILTER	ELECTRICAL	PHYSICAL							
				EXTERNAL	MINIMUM			ENTERING/				ENTERING	LEAVING					SUPPLY		CABINET		
IRER		NOMINAL	SUPPLY	STATIC	VENTILATION	HEATING	HEATING	LEAVING		CAPAC	CITY	AIR TEMP	AIR TEMP			MINIMUM		FAN	SINGLE	LENGTH/		
		CAPACITY	AIRFLOW	PRESSURE	RATE	INPUT (1)	OUTPUT (1)	AIR TEMP		SENSIBLE	TOTAL	DB/WB	DB/WB			EFFICIENCY		MOTOR	POINT	WIDTH/HEIGHT	WEIGHT	
IBER	AREA SERVED	(TONS)	(CFM)	(IN. WATER)	(CFM)	(MBH)	(MBH)	(°F)	MEDIUM	(MBH)	(MBH)	(°F)	(°F)	MEDIUM	EER	(MERV)	MCA/MOCP	(HP)	VOLT/PH/HZ	(IN)	(LB)	NOTES
31002X4	STAFF AREA	4	1,525	1.0	310	82	65.6	50.4/97.4	NAT. GAS	32.1	40.4	76.5/59.9	53.5/49.6	R-410A	12.5	14	30.9/45	0.75	230/1/60	51/46/47	766	(1)(2)(3)(4)(5)(6)(7)
31252X4	STAFF AREA	4	{ 1,700 }) 1.0	{ 700 }	102.5	82.8	{ 31/83.2 }	NAT. GAS	40.5	40.5	{81.2/60.5}	55.2/51.4	R-410A	12.5	14	30.9/45	0.75	230/1/60	51/46/47	766	(1)(2)(3)(4)(5)(6)(7)
			2		2			2				2										

G F AMBIENT. HEATING BASED ON -20 DEG F AMBIENT.

ISOLATED SEISMIC RATED ROOF CURB SIZED TO LOCATE OUTDOOR INTAKE A MINIMUM OF 36" ABOVE THE ROOF.

R & MODULATING POWER EXHAUST. SINGLE POINT POWER CONNECTION TO RTU, ECONOMIZER, & POWERED EXHAUST.

STEEL HEAT EXCHANGER, 2 STAGE HEATING, 2-STAGE COOLING.

ALLOW REMOTE MONITORING AND CONTROL WITH JCI BUILDING AUTOMATION SYSTEM.

SPLIT AIR CONDITIONING UNIT SCHEDULE																
		COOLING	INDOOR UNIT					OUTDOOR UNIT								
		CAPACITY			DIMENSIONS				DIMENSIONS							
		RANGE		AIRFLOW	WxDxH	WEIGHT			WxDxH	WEIGHT		MFA		EFFICIENCY		
LOCATION	TYPE	(MBH)	MODEL	(CFM)	(IN)	(LBS)	VOLT/PH/HZ	MODEL	(IN)	(LBS)	MCA	(AMPS)	VOLT/PH/HZ	SEER	REFRIGERANT	NOTES
DATA CLOSET A132	WALL MOUNTED	22.2-6.0	FTKB24AXVJU	405-555	46x9x13	31	208/1/60	RKB24AXVJU	34x13x26	97	13.2	20	208/1/60	17.0	R-410A	(1)(2)(3)(4)(5)(6)

N FOR INDOOR AND OUTDOOR UNITS. DISCONNECT BY DIVISION 26 (QTY. 2; 1 EACH FOR INDOOR AND OUTDOOR UNIT).

SUPPLIED FIELD INSTALLED WALL MOUNTED (WIRED) CONTROLLER AND LOW AMBIENT KIT TO 0 DEG F.

ORDANCE WITH MANUFACTURER'S SUGGESTED LINE SIZE.

NVERTER DRIVEN COMPRESSOR PROVIDING THE RANGE OF CAPACITIES NOTED. MODULATING COMPRESSOR SPEED TO REDUCE CYCLING.

DENSATE PUMP. PUMP SHALL BE CAPABLE OF 5.8 GAL/H @ 10 FT HD, 120V/1PH/60HZ, 1/10 HP. BASIS OF DESIGN SHALL BE ASPEN PUMPS MAXI ORANGE (OR EQUAL). PROVIDE CHECK VALVE AT DISCHARGE OF PUMP. CH THAT PROVIDED FOR THE VRF EQUIPMENT. SEE SPECIFICATIONS...

3

			GRILL	.ES, RE	EGI	STERS AND DIFFUSERS
				MAX	MAX	
ID	MANUFACTURER	MODEL	SIZE	CFM	NC	DESCRIPTION
			6" DIA	90		SQUARE PLAQUE CEILING DIFFUSERS. REMOVABLE FACE & CORE
CD-1	EH PBICE	SPD		300	30	BOARD CEILING DIFFUSER & FRAMES SHALL BE 20" x 20" OB 12" x 12"
			12" DIA 14" DIA	450 600		AS REQUIRED TO FIT CEILING SPACE. SEE PLANS FOR FACE AND NECK SIZE.
RG-1	EH PRICE	LBMH 25B	4" WIDE SEE PLANS FOR LENGTH	135 CFM/FT	30	ALUMINUM FLOOR MOUNTED LINEAR BAR SUPPLY GRILLE. GRILLE SHALL HAVE 3/16" FIXED 0° DEFLECTION BLADES SPACED AT 1/2" ON CENTER RATED FOR FOOT TRAFFIC. BLADES SHALL RUN PARALLEL TO THE LONG DIMENSION OF THE GRILLE. PROVIDE HEAVY DUTY NARROW FACE BORDER DESIGNED FOR FLUSH AND RECESSED MOUNTING IN FLOORS. PROVIDE FIELD FABRICATED INSULATED PLENUM SIZED TO MATCH SIZE OF FLOOR GRILL.
EG-1	EH PRICE	80FF	6" DIA 8" DIA 10" DIA 12" DIA 14" DIA 15" DIA	100 210 380 600 750 1000	30	CRATE TYPE CEILING EXHAUST AIR UNIT, REMOVABLE FACE & CORE. FRAME SHALL BE FOR SURFACE MOUNTING IN GYPSUM BOARD CEILING. UNIT & FRAMES SHALL BE 20"x20" OR 12" x 12" AS REQUIRED TO TO FIT CEILING SPACE AVAILABLE. SEE PLANS FOR FACE AND NECK SIZE. PROVIDE ROUND NECK ADAPTER.

2

2

100% Construction Documents

:020 2:34:27 PM BIM 360://19296 - Logan Regional Hospital Reconfiguration/19296_Mech

		MEDICAL GAS A	
	STATIONS		
SYMBOL	MONITORED	LOCATION	
MA-1	MASTER ALARMS	CONTROL ROO	M
1. COORDINATE EX	ACT LOCATION WITH ARCHITE	URAL	

2. DEDICATED WIRING FROM SOURCE SIGNALS TO ALARM

	MEDICAL GAS VALVE SCHEDULE										
		PIPE SIZE									
SYMBOL	AREA SERVED	OX	REMARKS								
MV-1	SLEEP LAB	1/2"	1								

4

1. WITH GAUGES

5

	MEDICAL GAS OUTLETS SCHEDULE										
		# OF OUTLETS	PIPE DROP SIZE TO OUTLET(S)								
SYMBOL	ROOM TYPE	OX	OX	REMARKS							
MO-1	SLEEP LAB	1	1/2"	1,2							
MO-2	SLEEP LAB	1	1/2"	1,2,3							

UNLESS NOTED OTHERWISE, ALL OUTLETS ARE CHEMETRON-STYLE QUICK-CONNECTS - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS 1. PIPE DROP SIZES ARE FOR ONE SET OF OUTLETS

2. WALL MOUNTED OUTLETS

5

3. OUTLET COMPLETE WITH 0-15 LPM FLOW METER AND CONNECTION HOSE ON OUTLET FOR CONNECTION TO ADJACENT OUTLET.

GAS FIRED WATER HEATER SCHEDULE												
						RECOVERY			ELECTRICAL			
	MANUFACTURER					RATE	FLUE	DIMENSIONS				
	AND			EFFICIENCY	INPUT	@ 90 F	SIZE	H/W/D				
ID	MODEL NUMBER	LOCATION	SERVICE	(%)	(MBH)	DELTA T	(IN)	(IN)	(AMPS)	V/PH	NOTES	
WH-1	INTELLIHOT I200 GEN II	MECH A103	DOMESTIC	94	199.95	4.2 GPM	3	26.2/17.7/15	4.2	120/1	(1)(2)	

4

(1) UNIT SHALL BE POWER VENTED, INCLUDE CONDENSATE NEUTRALIZER KIT AND LINKED CONTROL SYSTEM. (2) WATER HEATER DISCHARGE TEMPERATURE TO BE SET AT 130 DEG. F.

		3				
						PLUMBING
ID	FIXTURE	DCW (IN)	DHW (IN)	W (IN)	V (IN)	DESCRIPTION
BF-1	BACKFLOW PREVENTER	1/2				CHEMICAL DISPENSEF BACKFLOW PREVENTE
EW-1	EMERGENCY EYE WASH	1/2	1/2			TEPID WATER
FD-1	FLOOR DRAIN			2	2	GENERAL USE FLOOR DF
FS-1	FLOOR SINK			2	1 1/2	
HY-1	HAMMER ARRESTOR					
L-1	LAVATORY	1/2	1/2	2	2	INTEGRAL COUNTERTC SINK FAUCET
L-2	LAVATORY	1/2	1/2	2	2	WALL HUNG, GOOSENE FAUCET
L-3	LAVATORY	1/2	1/2	2	2	INTEGRAL COUNTERTO SINK FAUCET
S-1	SINK	1/2	1/2	2	2	INTEGRAL COUNTERTO SINK FAUCET
S-2	SINK	1/2	1/2	2	2	COUNTER MOUNTED SIN COMPARTMENT, STAINLI STEEL, SINGLE HANDL
SS-1	SERVICE SINK	3/4	3/4	3	2	CORNER FLOOR MOUN JANITOR'S CLOSET
SH-1	SHOWER	1/2	1/2			ADA, FIXED AND HAND H SHOWER HEADS
TD-1	TRENCH DRAIN			2	1 1/2	STAINLESS STEEL LINE SHOWER DRAIN
WC-1	ADA WATER CLOSET	1		4	2	FLOOR MOUNTED, TAN TYPE, ADA
WB-1	WATER OUTLET BOX	1/2				WATER OULTET BOX
WB-2	WATER OUTLET BOX		1/2	2	1 1/4	WATER OULTET BOX
WB-3	WATER OUTLET BOX		1/2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
EWC-1	ELECTRIC WATER COOLER	1/2		1 1/2	1 1/2	WATER COOLER
\sim						

ANEL SCHEDULE											
SERVICES TO E	BE MONITORED										
OX	MA	REMARKS									
Х		1,2									

EQUIP.				EQUIP	Т
NO.	QTY.	LOCATION	EQUIPMENT	BTUH INPUT	
RTU-1	1	ROOF	RTU	102,500	
RTU-2	1	ROOF	RTU	82,000	
WH-1	1	MECH	WATER HEATER	199,950	
TOTAL (BTUH) =	384,450				
BTU/CUBIC FT. =	880				
TOTAL CFH=	437				

	DOMESTIC PUMP SCHEDULE												
				PUMP					MOTOR			SIZE	
	MANUF.			FLOW								LENGTH/	
	AND		SYSTEM	RATE	HEAD	WORKING	%	PUMP				WIDTH	
SYMBOL	MODEL NO.	LOCATION	SERVED	(GPM)	(FT)	FLUID	EFF.	TYPE	WATTS	RPM	VOLT/PH	(IN)	REMARKS
RCP-1	B&G NBF-10S/LW	MECH A103	DOM HW	1	13	WATER		CIRCULATOR	52	2800	115/1	5.25/5	(1)(2)
RCP-1	B&G NBF-10S/LW	MECH A103	DOM HW	(GPM) 1	(FT)	WATER	EFF. 	CIRCULATOR	52	КРМ 2800	115/1	(IN) 5.25/5	(1)(2

(1) BRONZE BODY FOR DOMESTIC WATER USE. (2) PUMP COMPLETE WITH B&G AQUASTAT MODEL AQS-3/4 AND AUTOMATIC TIMER KIT MODEL TC-1.

		DOMES	TIC EXPA	NSION TA	NK SCH	EDULE			
			FLUID		PHYSICAL				
	MANUFACTURER			MIN. TANK/	TANK	RELIEF	DIA./	NPT	-
	AND		WORKING	ACCEPTANCE	SIZE	VALVE	HEIGHT	FITTING	
ID	MODEL NUMBER	LOCATION	FLUID	(GAL)	(GAL)	(PSIG)	(IN)	(IN)	NOTES
DET-1	AMTROL ST-5C	MECHANICAL 103	WATER	0.9	2	75	8/14	3/4	(1)

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	2 1	
FI	KTURE SCHEDULE	
	NOTES	
3	WATTS LF008PCQT HEALTH HAZARD, ANTI-SIPHON, SPILL RESISTANT BACKFLOW PREVENTER. STUB 1/2" COLD WATER LINE THROUGH WALL AN PROVIDE AN ISOLATION VALVE UPSTREAM OF THE BACKFLOW PREVENTER. BACKFLOW PREVENTER SHALL BE INSTALLED AT A MINIMUM OF 5 ⁻ ABOVE FINISHED FLOOR AND A MINIMUM OF 12" ABOVE CHEMICAL DISPENSER. PROVIDE 3/4" NPT THREADED CONNECTION AT OUTLET. COORD EXACT MOUNTING HEIGHT AND LOCATION WITH CHEMICAL DISPENSER AND ARCHITECTURAL ELEVATIONS.	ND '-0" DINATE
	GUARDIAN MODEL G5022 COUNTER MOUNTED EYE WASH DRENCH HOSE. PROVIDE WITH GUARDIAN G6020 THERMOSTATIC MIXING VALVE. PRO WATTS LF7 DUAL CHECK VALVES ON HOT AND COLD LINES.	OVIDE
AIN	FLOOR DRAIN (RESTROOM): SMITH FIGURE 2005Y FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 6" ROUND NICKEL BRONZ ADJUSTABLE STRAINER HEAD WITH SECURED GRATE. PROVIDE DEEP SEAL TRAP AND TRAP GUARD SEAL.	Έ
	FLOOR SINK: SMITH FIGURE 3100Y CAST IRON FLANGED RECEPTOR WITH ACID RESISTANT INTERIOR COATING, NICKEL BRONZE RIM AND SECU 1/2 GRATE AND ALUMINUM DOME BOTTOM STRAINER. PROVIDE DEEP SEAL TRAP AND TRAP GUARD SEAL.	JRED
	HAMMER ARRESTER: JR SMITH FIGURE 5005 FIXTURE RATING 1-11, FIGURE 5010 FIXTURE RATING OF 12-32, FIGURE 5020 FIXTURE RATING 33-60 FIGURE 5030 FIXTURE RATING 61-113.	0 &
>	LAVATORY: CHICAGO NO. 786-GN2FC CERAMIC QUARTER TURN OPERATING CARTRIDGE WITH 4" WRIST BLADE HANDLES, 1.5 GPM LAMINAR FLO CONTROL INSERT IN THE SPOUT INLET AND 5-1/4" RIGID GOOSENECK SPOUT WITH LAMINAR FLOW OUTLET, POWERS LFe480 THERMOSTATIC MI VALVE WITH WATTS LF7 DUAL CHECK VALVES ON HOT AND COLD LINES. PROVIDE LOOSE KEY ANGLE STOPS AND CHROME PLATED COPPER SUPPLIES AND 17 GA. CAST BRASS, CHROME PLATED "P" TRAP. COVER ALL EXPOSED PIPING WITH WHITE "HANDI-LAV GUARD" PROTECTOR AS NEEDED TO MEET ADA REQUIREMENTS.	W IXING
к	LAVATORY: KOHLER K-2030 GREENWICH WALL MOUNTED LAVATORY, CHICAGO NO. 786-GN2FC CERAMIC QUARTER TURN OPERATING CARTRID WITH 4" WRIST BLADE HANDLES, 0.5 GPM LAMINAR FLOW CONTROL INSERT IN THE SPOUT INLET AND 5-1/4" RIGID GOOSENECK SPOUT WITH LAI FLOW OUTLET, POWERS LFe480 THERMOSTATIC MIXING VALVE WITH WATTS LF7 DUAL CHECK VALVES ON HOT AND COLD LINES. PROVIDE LOC ANGLE STOPS AND CHROME PLATED COPPER SUPPLIES AND 17 GA. CAST BRASS, CHROME PLATED "P" TRAP. COVER ALL EXPOSED PIPING WIT WHITE "HANDI-LAV GUARD" PROTECTOR AS NEEDED TO MEET ADA REQUIREMENTS.)ge .MINAR)se key 'H
5	LAVATORY: MOEN 9921 FAUCET, 1.2 GPM FLOW CONTROL INSERT, POWERS LFe480 THERMOSTATIC MIXING VALVE WITH WATTS LF7 DUAL CHEO VALVES ON HOT AND COLD LINES. PROVIDE LOOSE KEY ANGLE STOPS AND CHROME PLATED COPPER SUPPLIES AND 17 GA. CAST BRASS, CHE PLATED "P" TRAP. COVER ALL EXPOSED PIPING WITH WHITE "HANDI-LAV GUARD" PROTECTOR AS NEEDED TO MEET ADA REQUIREMENTS.	CK ROME
>	SINK: CUP STRAINER;CHICAGO NO. 786-GN2FC CERAMIC QUARTER TURN OPERATING CARTRIDGE WITH 4" WRIST BLADE HANDLES, 1.5 GPM LAN FLOW CONTROL INSERT IN THE SPOUT INLET AND 5-1/4" RIGID GOOSENECK SPOUT WITH LAMINAR FLOW OUTLET.; FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.	MINAR
ile SS	SINK: JUST SL-2131-A-GR 18 GA. STAINLESS STEEL SINK; 31" X 21" X 8" DEEP; SELF RIMMING; CUP STRAINER;CHICAGO NO. 786-GN2FC CERAMIC QUARTER TURN OPERATING CARTRIDGE WITH 4" WRIST BLADE HANDLES, 1.5 GPM LAMINAR FLOW CONTROL INSERT IN THE SPOUT INLET AND 4 RIGID GOOSENECK SPOUT WITH LAMINAR FLOW OUTLET.; FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.	5-1/4" S
-,	JANITOR SINK (FLOOR MOUNTED, CORNER): KOHLER K6710, WHITBY, 28 X 28-INCH, ENAMELED CAST IRON FLOOR-MOUNTED CORNER MODEL, K9146-3" DRAIN WITH STRAINER, NO. K8940 REMOVABLE VINYL-COATED RIM GUARD; CHICAGO 897-RCF FAUCET WITH VACUUM BREAKER, PRON WATTS NO. 7 DUAL CHECKS IN HOT AND COLD SUPPLIES, SCREWDRIVER STOPS IN SHANKS, 5 FOOT RUBBER HOSE AND WALL HOOK, 853.	VIDE
LD	SHOWER (ADA COMPLIANT): SYMMONS 1-1170VT-T600B-36-V-X-1.5 VISU-TEMP EXTRA HEAVY DUTY SHOWER SYSTEM WITH PRESSURE BALANCI MIXING VALVE, CLEAR-VUE THERMOMETER, LEVER HANDLE, ADJUSTBABLE STOP SCREW, INTEGRAL SERVICE STOPS, 1.5 GPM SHOWER HEAD ARM AND FLANGE, LEVER DIVERTER WITH INTEGRAL VOLUME CONTROL, 1.5 GPM WALL/HAND SHOWER WITH 6' FLEXIBLE METAL HOSE, INLINE BREAKER, WALL CONNECTION AND FLANGE AND SYMMONS 36" T600B ADA GRAB AND SLIDE BAR FOR HAND SHOWER MOUNTING.	ING WITH
R	TRENCH DRAIN: NOBLE COMPANY FREESTYLE MODEL. TYPE 304 FABRICATED STAINLESS STEEL LINEAR SHOWER DRAIN FOR MOUNTING IN WO SUBFLOOR. COMPLETE WITH LIGHT DUTY, SLOTTED HEEL-PROOF GRATE.	DOD
<	WATER CLOSET: KOHLER K-25077 KINGSTON COMFORT HEIGHT VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL, TANK TYPE, ADA TOIL WITH K-4670-C LUSTRA OPEN-FRONT SEAT. COORDINATE FLUSH HANDLE SIDE TO BE ON THE WIDE SIDE OF THE WATER CLOSET. SEE PLANS.	_ET
	WATER OUTLET BOX: WATER-TITE 82112 COFFEE MAKER OUTLET BOX WITH HAMMER ARRESTER AND QUARTER TURN BALL VALVE FOR USE W COFFEE MACHINES. INSTALL ONLY COLD WATER BALL VALVE. NOTCH COUNTERTOP BACK-SPLASH.	/ITH
	WATER OUTLET BOX: WATER-TITE 82112 WATER OUTLET BOX WITH DRAIN, HAMMER ARRESTER AND QUARTER TURN BALL VALVE WITH 3/4" HO CONNECTION. INSTALL ONLY HOT WATER BALL VALVE. NOTCH COUNTERTOP BACK-SPLASH.	DSE
\frown	WATER OUTLET BOX: WATER-TITE 82112 WATER OUTLET BOX WITH DRAIN, HAMMER ARRESTER AND QUARTER TURN BALL VALVE FOR USE WITH COUNTERTOP ICE-MACHINE-INSTALL ONLY COLD WATEB-BALL VALVE. NOTCH COUNTERTOP BACK-SPLASH. PROVIDE 1/4" COPPER TUBE COMMECTION BETWEEN SUPPLY VALVE AND ICE MACHINE.	TH
	WATER COOLER: ELKAY MODEL EZS8WSLK WALL MOUNTED BARRIER FREE SINGLE WATER COOLER WITH BOTTLE FILLER. ONE-PIECE STAINLE STEEL TOP AND RECEPTOR; WELDED STEEL FRAME AND STAINLESS STEEL PANELS WITH BAKED ENAMEL COATING; HERMETICALLY SEALED M COMPRESSOR WITH OVERLOAD PROTECTION, 1/5 HP 115V/SINGLE PHASE/60 CYCLE; FAN COOLED CONDENSER; PERMANENTLY LUBRICATED F MOTOR; COOLER SHALL DELIVER 8 GPH AND BOTTLE FILLER SHALL PROVIDE 1.1 GPM OF 50°F DRINKING WATER WITH 80°F INLET TEMPERATUR	ESS /OTOR FAN RE AN
		لىر

Mechanical Engineering Electrical Engineering Technology Engineering Lighting Design Theatre Design Fire Protection Engineering Building Commissioning

To:	Shailesh Munot	Phone:	404.614.5092
Company:	NJRA Architects	Date:	December 04, 2020
	5272 S. College Drive, Suite 104	Copied:	
	Murray, Utah 84123		
Re:	Sleep Lab Addendum #2		
From:	Carlton A. Getz	Job:	Salt Lake City Convention
			Center Hotel
[p]:	801.401.8461	Job No.:	20190083
Distributed	Via: E-Mail	Email:	cag@spectrum-engineers.com

Memo

This memorandum summarizes the revisions in Addendum #2 dated December 04, 2020:

Sheet EPC101

• Power for drinking fountain added in coordination with ARCH drawings.

Sheet EPC601

• Keynote #9 added alongside service feeder tag.

Sheet EPC602

- Drinking fountain circuit added.
- Lighting circuits added.
- FACP circuit added.
- ACS circuit added.
- VSS circuit added.
- Lighting fixture voltages updated per circuiting to 120V power.
- G-2 spec updated to match ASC project.
- NF lighting fixture spec updated to increase delivered lumens.
- Panel SL1 updated to include kitchen equipment demand factors.

Sheet ELC101

• Lighting circuiting updated to reflect two circuits from panel SL1

Sheet EYC101

• VSS and ACS panels shown.

Sheet FAC101

• FACP shown.

If you require any additional information, please contact me at (801).401.8461.

Regards,

Carlton A. Getz, P.E. Principal Spectrum Engineers, Inc.

100% Construction Documents

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NEW ONE-LINE

PROVIDE FULLY RATED CIRCUIT BREAKERS IN PANELBOARDS FOR THE FAULT CURRENT SHOWN. SERIES RATINGS WITH NEXT LEVEL UPSTREAM OVERCURRENT PROTECTIVE DEVICES ARE PERMITTED SUBJECT TO FACTORY UL DOCUMENTATION OF SERIES RATING SUBMITTED TO ENGINEER. IF DEVICE OR EQUIPMENT FAULT CURRENT RATING IS NOT SHOWN, ASSUME 100,000 AIC.

EQUI	PMENT NAMEP SCHEDULE	LAT	E
EQUIPMENT ID SCHEME	FIRST DIGIT - BUILDING LEVEL (0, 1 SECOND DIGIT - PANEL TYPE M - MECHANICAL H - (277/480) L - (120/208) E - EMERGENCY S - STANDBY Q - EQUIPMENT U - UPS K - KITCHEN (120/208 THIRD DIGIT - BUILDING AREA (A, B FOURTH DIGIT - SEQUENCE # (1,2,3,) , C, ETC) .)	
LABEL FORMAT	[NAME] [SYSTEM] [VOLTAGE] [FED FROM [SOURSE(S)]	
LABEL EXAMPLE	PANEL "4LA1 STANDBY POW 120/208V FED FROM BUS-A / XFMR1	" /ER 4TA	
BUSWAY	LABEL BUSWAY EVERY 6' WHERE EX EVERY 15' WHERE NOT EXPOSED TO	POSED TO VIEW	VIEW AND
OTHER			
C	COLOR SCHEM	Ξ	
		NAMEPL	ATE COLOR
SYSTEM NORMAL POWER	ALL GEAR NOT INCLUDED BELOW	WHITE	BACKGROUND
STANDBY POWER	MDPS1 AND ALL DOWNSTREAM GEA EXCEPT UPS GEAR AS NOTED	 R, WHITE 	ORANGE
EMERGENCY POWER	GDP1, GDP2, ATS-E AND ALL DOWNSTREAM GEAR	WHITE	RED
LEGALLY-REQUIRED STANDBY POWER	ATS-S AND ALL DOWNSTREAM GEAR	RED	WHITE
UPS "A" POWER	UPSA AND ALL DOWNSTREAM GEAR	WHITE	BLUE
UPS "B" POWER	UPSB AND ALL DOWNSTREAM GEAR	BLACK	YELLOW

3

BRANCH CIRCUIT CONDUCTOR AND CONDUIT SIZING TABLE

CIRCUIT AMPACITY/VOLTAGE		CONDUCTOR SIZE (PHASE, NEUTRAL AND GR)	CONDUIT SIZE
			0.75".0
20A/120V	0' - 60'	#12 AWG	0.75°Ø
20A/120V	60' - 95'	#10 AWG	0.75" Ø
20A/120V	95' - 150'	#8 AWG	1" Ø
20A/120V	150' - 240'	#6 AWG	1.25" Ø
20A/277V	0' - 140'	#12 AWG	0.75" Ø
20A/277V	140' - 220'	#10 AWG	0.75" Ø
20A/277V	220' - 350'	#8 AWG	1" Ø
20A/277V	350' - 550'	#6 AWG	1.25" Ø
NOTES:			

NOTES:

- 1. WIRE SIZING IS BASED ON COPPER CONDUCTORS SUPPLYING A 20A, 120V CIRCUIT AT THE INDICATED VOLTAGE, ASSUMED TO BE 80%
- LOADED (16A), WITH MAXIMUM VOLTAGE DROP OF 3% AT THE LOAD.
 DOWN-SIZED WIRE AT DEVICE/LOAD AS REQUIRED AND TERMINATE
- CONDUCTORS IN A SAFE AND CODE COMPLIANT MANNER.
- 3. CONDUIT SIZE IS BASED ON A MAXIMUM OF 3 CIRCUITS PER CONDUIT, EACH WITH A SEPARATE NEUTRAL CONDUCTOR.

COPPER CONDUCTOR AND CONDUIT SCHEDULE

**)		SUBSC	RIPT (NOT	BER TE 5)		(E.C	6.)[5]		
		HH	CONDUIT	CONDU	JCTOR (N	NOTE 1)			
SYM	AMP	AMPS	SIZE	QTY 2	SIZE	G 12	IG/HH	SE	NOTES
2	20	-	.75	3	12	12	12	8	2,3
3	20	24	.75	4	12	12	12	8	2,3
<u>(4)</u>	30	-	.75	2	10	10	10	8	2
6	30	- 32	.75	3 4	10	10	10	8	2
7	40	-	1	2	8	10	8	6	2
9	40	-	1	3	8	10	8	6	2
<u>9</u> 10	40	44	1	4	8	10 10	8	6 4	2
11	55	-	1	3	6	10	8	4	2
12	55	60	1.25	4	6	10	8	4	2
(13)	70	-	1	2	4	8	4	2	2
15	70	- 76	1.25	3 4	4	8 8	4	2	2
16	85	-	1.25	2	3	8	3	2	2
17	85	-	1.25	3	3	8	3	2	2
(18)	85	92	1.25	4	3	8	3	2	2
20	95	- 104	1.20	4	2	8	2	2	2
21	130	-	1.50	3	1	6	2	2	2
22	130	116	1.50	4	1	6	2	2	2
23 24	150 150	- 136	2	3	1/0 1/0	6 6	2	1/0 1/0	2
25	175	-	2	3	2/0	6	2	2/0	2
26	175	156	2	4	2/0	6	2	2/0	2
(27)	200	-	2	3	3/0	6	2	2/0	2
<u>୯୪</u> 29	200 230	180 -	∠.50 2.50	4	3/U 4/0	о 4	2	∠/∪ 2/∩	2
30	230	208	2.50	4	4/0	4	2	2/0	2
31	255	-	2.50	3	250	4	1	2/0	2
32	255	232	2.50	4	250	4	1	2/0	2
<u>33</u> [34]	310 310	- 280	3	3	350 350	3	1/0 1/0	3/0 3/0	2
35	380	-	3.50	3	500	3	3/0	3/0	2
36	380	344	4	4	500	3	3/0	3/0	2
37	400	-	2 EA 2	3	3/0	3	3/0	3/0	2
<u>38</u> 39	400 510	360	2 EA 2.50 2 EA 2.50	4	3/0 250	3	3/0 4/0	3/0	2
40	510	464	2 EA 3	4	250	1	4/0	3/0	2
41	620	-	2 EA 3	3	350	1/0	4/0	3/0	2,4
42	620	560	2 EA 3	4	350	1/0	4/0	3/0	2,4
43	760	- 688	2 EA 3.50	3	500 500	1/0 1/0	4/0	3/0	2,4
45	855		3 EA 3	3	300	2/0	4/0	3/0	2,4
46	855	768	3 EA 3	4	300	2/0	4/0	3/0	2,4
47	1000	-	3 EA 3.50	3	400	2/0	4/0	3/0	4
48 49	1000	912	3 EA 3.50 3 EA 4	4	400	2/0	4/0 4/0	3/0	4
50	1140	1032	3 EA 4	4	500	3/0	4/0	3/0	4
51	1240	-	4 EA 3	3	350	3/0	4/0	3/0	4
<u>52</u>	1240	1120	4 EA 3	4	350	3/0	4/0	3/0	4
54	2010	1824	5 EA 4 6 EA 4	4	400	250	4/0 250	4/0 250	4
55	2660	2408	7 EA 4	4	500	350	350	350	4
56	3040	2752	8 EA 4	4	500	500	500	500	4
57) 58	4180	3784	11 EA 4	4	500	500	500	500	4
<u>59</u>	-	-	5	-	-	-	-	-	6
60	-	-	10 EA 4	-	-	-	-	-	6
			CONDUIT	AND C	ONDUCT	OR SCH	EDULE N	OTES	
1. C A	CONDU	CTORS ED IN N	SHOWN A IOTE 5. AL	RE SHO L COND	WN FOR	EACH C SHOWN	ONDUIT V I ARE THV	VITH MOE WN UNLE	DIFICATIONS SS
2. F	PROVID	E EQUI F BREA	PMENT GF KERS ARE	ROUND (SIZED (CONDUC GREATEF	TORS PE R THAN A	ER TABLE	250-122 \ RATING SI	WHEN HOWN IN
3 ⊑	RU/ID	F #1∩ ►	IEI ITRAI O				HCIRCUI		NG
J. (COMPU	TERS.							
4. 0		D (G) C	ONDUCTO	r may e	BE DELET	FED ON S	SERVICE	ENTRANC	ЭE
5. 5	SYMBO	LSUBS	CRIPTS:						
_		2N": IN	CLUDE TW	/O NEUT	FRAL CO	NDUCTO	RS SIZEF) AS	
	-	S		FOR PI				OUCTORS	
		VV A	SINGLE 20	0% RAT	ED CON	DUCTOR	THAT IS	. INCLUD TWICE TH	ie IE
		AI							
		IN	SIZE.					LUVV #1/U	
	"	=G" Fl C(C)	JLL SIZE G ONDUCTOR	ROUND R TO BE RS	, SIZE EC SAME S	UIPMEN	IT GROUN HE PHAS	IDING E	
		0		·					
	"	HH": NI			S EXIST	DUE TO		RMONIC	
		"N C(C LUADS	5. CURR ATED AC	ENT CAF CORDIN	kkying Igly. Pr	OVIDE TH	IE I
		IG			EQUIPM	IENT GR	OUNDING	3	
		C		٦ .					
	"	G": IN	CLUDE IG	(INSULA	TED/ISO	LATED G	ROUND		
		C					VITH THE	GROUND	
		0	் ட்லூர ME						
	"(SE": SI	JBSTITUTE	E "SE" C			"G" CONE		_
		SI	ECONDARY	OF TH	E SEPAR	ATELY D	ERIVED S	SYSTEM.	-

6. RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

2

GENERAL SHEET NOTES PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS. REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION. ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO ELECTRICAL SPECIFICATIONS FOR REQUIREMENTS. PROVIDE PERFORMANCE TESTING FOR GROUND-FAULT PROTECTION SYSTEMS ON SITE WITH A WRITTEN RECORD OF THIS TEST SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PER NEC 230.95(C). ⇒SHEET KEYNOTES EXISTING UTILITY TRANSFORMER TO BE REMOVED AND REPLACED BY LOGAN POWER. COORDINATE REMOVAL AND REINSTALLATION WITH LOGAN POWER. REMOVE EXISTING UTILITY SECONDARY FEEDERS IN COORDINATION WITH LOGAN POWER. EXISTING RECESSED METERING BANK TO BE REMOVED. REMOVE EXISTING CONDUIT AND CONDUCTORS TO EXISTING TENANT PANELBOARD. MAINTAIN EXISTING PANELBOARD DURING DEMOLITION. REMOVE EXISTING CONDUIT AND CONDUCTORS TO EXISTING TENANT PANELBOARD. REMOVE EXISTING TENANT PANELBOARD. COORDINATE INSTALLATION OF NEW 240/120 VOLT SECONDARY UTILITY TRANSFORMER WITH LOGAN POWER. PROVIDE NEW FREESTANDING METER BANK WITH MAIN BREAKER AND NEMA 3R ENCLOSURE. PROVIDE NEW FEEDER TO EXISTING TENANT PANELBOARD MAINTAINED DURING DEMOLITION AND RECONNECT. COORDINATE WITH UTILITY FOR FINAL CONDUIT SIZE ON SECONDARY SIDE OF UTILITY TRANSFORMER.

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100% Construction Documents

			5											4												3							
														EC	JU	IPME	NT S	CH	EDU	LE													
N	MARK	QTY	ITEM DESCRIPTION			LOAD D	ATA				WIRE AND CONDUIT SIZE		OVERCUR PROTECT	RENT ION		DISCONNE	CT							S	STARTER DA	TA						NOTES	Γ
				HP	kW	MCA	FLA	VOLT	PH	Hz		FURN BY	DEVICE	LOCATION	FURI BY	N DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	SIZE	SPEED	CTRL VOLT	SELECTOR SWITCH	PUSH BUTTON	PILOT LAMP	NORMALL OPEN CONTACT	Y NORMALLY CLOSED S CONTACTS	/ PHASE FAILURE RELAY	SCHEMATI REFERENC	C REMOTE E CTRL		
AC-	-5/CU-5	1	SPLIT AIR CONDITIONING		2.47	13.2	11.9	208	1	60	CC #1	E	20A C/B	PANEL	E	TOGGLE SWITCH	ADJ. TO UNIT																A
,	ATC	1	ATC PANEL					120	1	60	CC #1	E	20A	PANEL																			
E	BB-1	1	ELECTRIC BASEBORD HEATER		1.89		9.1	208	1	60	CC #1	E	20A	PANEL	E	TOGGLE	ADJ. TO																+
E	BB-2	1	ELECTRIC BASEBORD HEATER		1.89		9.1	208	1	60	CC #1	E	20A	PANEL	E	TOGGLE	ADJ. TO																
(CU-1	1	VRF CONDENSING UNIT			16.5	14.9	208	1	60	CC #4	E	C/B 25A	PANEL	E	SWITCH TOGGLE	UNIT ADJ. TO																-
(CU-2	1	VRF CONDENSING UNIT			16.5	14.9	208	1	60	CC #4	E	C/B 25A	PANEL	E	SWITCH TOGGLE	UNIT ADJ. TO																
(CU-3	1	VRF CONDENSING UNIT			16.5	14.9	208	1	60	CC #4	E	C/B 25A	PANEL	E	SWITCH TOGGLE	UNIT ADJ. TO																
	<u>CU-4</u>	1				16.5	14.9	208	1	60	CC #4	F	C/B	PANEI	F																		
					7.5	10.0	00.4	200	1	00	00 #4		C/B			SWITCH	UNIT																
	EC-1				7.5		30.1	208	1	60	CC #10		40A C/B	PANEL	Q	D/S	UNIT																
E	EF-1	1	EXHAUST FAN	1/6			4.4	120	1	60	CC #1	E	15A C/B	PANEL	Q	TOGGLE SWITCH	ADJ. TO UNIT	E	FVNR	ADJ. TO UNIT	2		120	HOA		R/G	2	2					
I	EF-2	1	EXHAUST FAN	1/4			5.8	120	1	60	CC #1	E	15A C/B	PANEL	Q	TOGGLE SWITCH	ADJ. TO UNIT	E	FVNR	ADJ. TO UNIT	2		120	HOA		R/G	2	2					
[EF-3	1	CEILING-STAFF TOILET A108		0.012			120	1	60	CC #1	E	20A C/B	PANEL	E	TOGGLE SWITCH	ADJ. TO UNIT	E	FVNR	ADJ. TO UNIT	2		120	HOA		R/G	2	2					
E	ERV-1	1	ENERGY RECOVERY VENTILATOR			8.9		208	1	60	CC #1	E	15A C/B	PANEL	Q	30A	ADJ. TO																1
F	FC-1	1	VRF FAN COIL UNIT		5	25.0	24	208	1	60	CC #4	E	25A	PANEL	E	TOGGLE	ADJ. TO																+
F	FC-2	1	VRF FAN COIL UNIT		5	25.0	24	208	1	60	CC #4	E	25A	PANEL	E	TOGGLE	ADJ. TO																+
F	FC-3	1	VRF FAN COIL UNIT		5	25.0	24	208	1	60	CC #4	E	25A	PANEL	E	TOGGLE	ADJ. TO																
F	FC-4	1	HEATER VRF FAN COIL UNIT		5	25.0	24	208	1	60	CC #4	E	C/B 25A	PANEL	E	SWITCH TOGGLE	UNIT ADJ. TO																
F	FC-1	1	HEATER VRF FAN COIL UNIT		1.02	4.9		208	1	60	CC #1	E	C/B 15A	PANEL	E	SWITCH TOGGLE	UNIT ADJ. TO																+
F	FC-2	1	VRE FAN COIL UNIT		1 02	49		208	1	60	CC #1	F	C/B 15A	PANFI	F	SWITCH																	
	FC 2	1			1.02	1.0		200	1	60	CC #1		C/B			SWITCH																	<u> </u>
r	FC-3				1.02	4.9		200		00			C/B			SWITCH	UNIT																
ŀ	FC-4	1	VRF FAN COIL UNIT		1.02	4.9		208	1	60	CC #1	E	15A C/B	PANEL	E	TOGGLE SWITCH	ADJ. TO UNIT																
ł	HR-1	1	VRF HEAT RECOVERY BOX				0.06	208	1	60	CC #1	E	15A C/B	PANEL	E	TOGGLE SWITCH	ADJ. TO UNIT																
Ν	MA-1	1	MEDICAL GAS ALARM PANEL					120	1	60	CC #1	E	20A C/B	PANEL	Q																		
R	RCP-1	1	DOMESTIC CIRC PUMP		0.052			120	1	60	CC #1	E	15A C/B	PANEL	E	TOGGLE	ADJ. TO	E	FVNR	ADJ. TO	3		121	HOA		R/G	2	2					
R	RTU-1	1	PACKAGED ROOFTOP UNIT			30.9	27.8	240	1	60	CC #10	E	45A	PANEL	E	60A	ADJ. TO																
R	RTU-2	1	PACKAGED ROOFTOP UNIT			30.9	27.8	240	1	60	CC #10	E	45A	PANEL	E	60A	ADJ. TO																+
V	WH-1	1	DOMESTIC WATER HEATER				4.2	120	1	60	CC #1	E	C/B 15A	PANEL	Q	TOGGLE	ADJ. TO																+
													C/B			SWITCH	UNIT																

VOLTS	S/PHAS	E/WIRE:	PAI	NEL SI	ZE & T	YPE: MAIN SIZE AND TYP	E:		LOC	ATION	: CABINET:			NOTE	S:		
120/24	0,3W	RE	22"	W x 6"	D, BO	LT-ON 400 AMPERE MAIN L	UGS		STAF	F BRE	EAK ROOM A104 SURFACE						
ACCE	SSORIE	S:	PA	NEL DI	RECTO	DRY, IDENTIFICATION, GROUNDING E	BAR					AIC R	ATING:	22000)		
скт	OC	P	LOAD) (kVA)		F	PHASE	LOA	D			LOAD (kVA)	C	CP	Ск
NO	AMP	POLE	LTG	PWR	co	DESCRIPTION		4	E	3	DESCRIPTION	co	PWR	LTG	POLE	AMP	
1	20	1	0.0	0.7	0.0	REF STAFF BREAK ROOM A104	0.7	3.2			RTU-1	0.0	6.4	0.0	2	45	2
3	20	1	0.0	1.3	0.0	ICE STAFF BREAK ROOM A104			1.3	3.2							4
5	20	1	0.0	1.4	0.0	COFFEE STAFF BREAK RM A104	1.4	3.2		-	RTU-2	0.0	6.4	0.0	2	45	6
7	20	1	0.0	1.0	0.0	MW STAFF BREAK ROOM A104			1.0	3.2							8
9	20	1	0.0	0.0	0.9	CO STAFF BREAK ROOM A104	0.9	1.0			EF-1, EF-2, RCP-1	0.0	1.0	0.0	1	15	1(
11	20	1	0.0	0.0	0.5	CO STAFF TOILET A108			0.5	0.5	WH-1	0.0	0.5	0.0	1	20	12
13	20	1	0.0	1.4	0.0	COFFEE MACHINE	1.4	1.0			FC-1, FC-2	0.0	2.0	0.0	2	15	14
15	20	1	0.0	0.0	1.4	CO SHARED OFFICE A105			1.4	1.0							16
17	20	1	0.0	0.0	1.1	CO SHARED OFFICE A105	1.1	1.0			FC-3, FC-4	0.0	2.0	0.0	2	15	18
19	20	1	0.0	0.0	1.3	CO SHARED OFFICE A105			1.3	1.0							20
21	20	1	0.0	0.0	1.1	CO CONTROL ROOM A109	1.1	2.5			FC-1 SUP HEAT	0.0	5.0	0.0	2	25	22
23	20	1	0.0	1.5	0.0	POWER CONTROL ROOM A109			1.5	2.5							24
25	20	1	0.0	0.0	1.1	CO CONTROL ROOM A109	1.1	2.5			FC-2 SUP HEAT	0.0	5.0	0.0	2	25	26
27	20	1	0.0	0.0	0.9	CO CONTROL ROOM A109			0.9	2.5							28
29	20	1	0.0	0.0	1.4	CO CLEANING/ STORAGE A106	1.4	2.5			FC-3 SUP HEAT	0.0	5.0	0.0	2	25	30
31	20	1	0.0	1.2	0.0	MASK CLEANING/ STORAGE A106			1.2	2.5							32
33	20	1	0.0	12	0.0	MASK CLEANING/ STORAGE A106	12	2.5			EC-4 SUP HEAT	0.0	5.0	0.0	2	25	34
35	20	1	0.0	0.8	0.0	REF	1.2	2.0	0.8	25							36
37	20	1	0.0	0.0	0.0		01	0.9	0.0	2.0	ERV-1	0.0	19	0.0	2	15	38
39	30	2	0.0	2.7	0.0	MASK CLEANING	0.1	0.0	13	0.9							4
41							13	3.8	1.0	0.0	EC-1	0.0	75	0.0	2	40	42
43	20	2	0.0	1 9	0.0	BB-1	1.0	0.0	09	3.8							44
45							0.9	0.2	0.0	0.0	TDR CO	0.2	0.0	0.0	1	20	4
47	20	2	0.0	19	0.0	BB-2	0.0	0.2	0.9	13		1.3	0.0	0.0	1	20	48
10							0.0	13	0.0	1.0		1.0	0.0	0.0	1	20	50
51	25	2	0.0	3 1	0.0		0.5	1.0	16	13	CO SI EED ROOM 1 & 2 A112/11/	1.0	0.0	0.0	1	20	5
53	25	2	0.0		0.0		16	14	1.0	1.5		1.5	0.0	0.0	1	20	5/
55			0.0	3 1	0.0		1.0	1.4	16	11		1.4	0.0	0.0	1	20	5
57	2.5	2	0.0	5.1	0.0	00-2	16	12	1.0	1.4		1.4	0.0	0.0	1	20	50
50				2 1			1.0	1.5	16	1.4		1.3	0.0	0.0	1	20	60
61	23	2	0.0	5.1	0.0	00-3	16	11	1.0	1.4		- 0.0		0.0	- 1-	20	-6'
63				3 1			1.0	1.4	1.6	$\overline{}$					$\frac{\gamma}{1}$	20	6
65	25	2	0.0	5.1	0.0	00-4	1.6	1 5	1.0	0.7		0.0	0.7	1.5	1	20	64
67							1.0	1.5		1.2		0.0	0.0	1.3	1	20	60
60	20	1				SPARE	0.0	0.2	0.0	1.3		0.0	0.2	1.1	1	20	70
71	20	1				SPARE	0.0	0.3	<u>کر</u>						\sim		
71	20	1				SPARE	0.0	0.0	0.0	0.0	SPARE				1	20	
73	20	1				SPARE	0.0	0.0	0.0	0.0	SPARE				1	20	
15	20	1					0.0	0.0	0.0	0.0	SPARE				1	20	/6
11	20	1				SPARE	0.0	0.0	0.0	0.0	SPARE				1	20	/ 18
79	20	1				SPARE	0.5	0.0	0.0	0.0	SPARE				1	20	80
81	20	1				SPARE	0.0	0.0	0.0	0.0	SPARE				1	20	82
83	20	1				SPARE			0.0	0.0	SPARE				1	20	84
OTAL	_S:					CONNECTED kVA PER PHASE	5	51	5	0	CONNE	CTED 1	IOTAL	(VA =	101		

4

DIVERSIFIED TOTAL kVA = 95

LIGHTING & CONTINUOUS LOADS: 2.6 kVA @ 125% = 3.3 kVA - 100% CONNECTED LOAD PLUS 25%

AVERAGE AMPS PER PHASE = 396

2

RECEPTACLES: **19.4 kVA @ 76% = 14.7 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% KITCHEN EQUIPMENT: 7.2kVA@65%=4.7kVA - 65%CONNECTED LOAD PER NEC

ALL OTHER LOADS @ 100% : 72.5 kVA

LI OTHER LOADS @ 100% : 72.5 kVA MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

3

_		L	IGHTING FIXTUR		JHE	DULE		
RK	NOTE TO REFER TO BELOW H) BIDDERS: O SPECIFI(HAVE BEEN	COMPLY WITH THE SPECIFICATIONS. CATIONS FOR IMPORTANT TECHNICAL REC I CAREFULLY PREPARED TO ASSIST BIDDE	UIREMENT:	S FOR LIGH	HTING FIXTURE	ES, BALLASTS, ANI HIEVE THE DESIG	D LAMPS. THE CATALOG NUMBERS LISTED N CONCEPT, HOWEVER, PRIOR TO BIDDING,
			RER SHALL COMPARE THE CATALOG NUM	BERS SHOW			ON AND REQUIREM	IENTS ON THE DRAWINGS, AND SHALL
CU-5	KITS OR J	ACCESSOF	RIES TO FACILITATE INSTALLATION AS SHO	WN AT EAC		ON ON THE DRA	AWINGS. NO ALLO	WANCE OR REDRESS WILL BE ALLOWED
- <u>-</u>	FOR DISC	CREPANCIE	ES THAT WERE NOT REPORTED TO THE AF Y AMBIGUITY IS THE RESPONSIBILITY OF T	CHITECT/E HE BIDDER.	NGINEER I	N TIME FOR CO	ORRECTION OR CL	ARIFICATION BEFORE THE BID. THE
C	FOR EAC		TYPES SHOWN WITHIN 48 BUSINESS HOL	IRS OF THE	BID DATE.	FAILURE TO C	OMPLY WITH THIS	REQUIREMENT MAY DISQUALIFY THE
8-1	CONTRA	TS AND EN	1POWER THE ENGINEER TO DETERMINE F/ NSTALLER. SUBMITTAL PACKAGE SHALL IN	AIR VALUE F	·OR FIXTUF /IP MANUF/	RE AND INSTAL ACTURER AND	LATION CHANGES	R ON EACH FIXTURE SHEET. ON ALL
8-2		T MOUNTE	D FIXTURES, PROVIDE A SECOND SET OF F	PENDANTS,		ERENT LENGTI	H, AS DIRECTED B'	Y THE ARCHITECT/ENGINEER, PROVIDED
J-1		D AND WIT	THE LAMP AND BALLAST PROPOSED. CO)NTRACTOF	ROVED L	NCE PRICES AF	RE ACCURATE WH	EN THIS JOB WAS SPECIFIED,
J-2		CTOR AND NCE PRICE	ELECTRICAL DISTRIBUTOR SHALL VERIFY MAY OR MAY NOT INCLUDE LAMP(S) OR F	THIS ALLOV REIGHT AS	NANCE AN NOTED, Al	D REPORT AN' ND DO NOT INC	Y PROBLEMS TO T LUDE ANY TAXES	HE ENGINEER BEFORE THE BID. . UNIVERSAL VOLTAGE (120/277)
1.2	BALLAST	S REQUIRI	ED UNLESS NOTED OTHERWISE. DIMENSIO	N SEQUEN	CE = (LENG	GTH X WIDTH X	DEPTH) IN INCHES	S.
J-3			BODY / AIR / MOUNTING / DOOR					
J-4	SYMBOL	MARK D	LENS/LOUVER/REFLECTOR/OTHER RECESSED LED: SOLID STATE LED LIGHT	LAMP ENGINE: C	WATTS	S VOLTS ERMALLY PRO	MANUFACTUREF	۲ 1 LID STATE DIMMING DRIVER: MINUMUM
;-1			SYSTEM RATED LIFE 50,000 HOURS AT 70				GH-BRANCH WIRIN	G AND DAMP LOCATION; LIGHT ENGINE,
-1	_	D-89	6" APERTURE: COMFORT CLEAR	LED	30W	120V CEILING;	LIGHTOLIER	C6L1520DL-40K-M-CCL-W / CW-C6L15-N-2
-2	_		DIFFUSER; 4000 K COLOR TEMP LED; ~1500 LUMENS: 30 INPLIT WATTS:		2	2 Cur	PRESCOLITE	
-2			277V; 0-10V SOLID STATE DIMMING				PORTFOLIO	
-3			DRIVER; LENS; WHITE FLANGE.		1	2		
V-1		ED-89	6" APERTURE: COMFORT CLEAR	LED		{ 120V }		C6L1520DL-40K-M-CCL-W-EM / CW-C6L15-N-2-EM
-1	┨		~1500 LUMENS; 30 INPUT WATTS;				GOTHAM	
-2	-		277V; 0-10V SOLID STATE DIMMING DRIVER: LENS: WHITF FLANGE				PORTFOLIO	
-	_		BATTERY PACK.					
-3		E10	EXIT SIGN: METAL HOUSING; CEILING MC	UNT, SEE D	RAWINGS;	ARROWS PER	R PLANS; LED LAM	PS; BATTERIES; EDGE LIGHTED CLEAR
-4			LENS; GREEN LETTERS ON CLEAR BACK	GROUND. N				DS. UNITS SHOWN ARE CEILING
-1		E10-1	SINGLE FACE:		20W	120/277V	DUAL-LITE	LESCGWA
-2	-						MCPHILBEN EELP	45VL-1-GC-XX EDG 1 GC W EM
	_						LITHONIA	LRP W 1 GC XX 120/277
-3							ISOLITE EVENLITE	EUN-AC-G-1C SOV-AC-G-1C-WH-XX-XX
-4							CHLORIDE	STDLX-X-1-GC-X
-1		G	DECORATIVE LENSED TROFFERS: RECES	SSED FOR G	SYP; ACRYI	LIC PRISMATIC	LENS; EARTHQUA	KE CLIPS, LED DRIVER
-1		<u> </u>	0-10 VOLT DIMMING DRIVER WHERE INDI	CATED IN PI				
	_}	02	DIFFUSER, ~5200 LUMENS, MULTI	LLD	+011			
- -1	L L		VOLT, 4000K, MOUNTING PER PLAN, GYP MOUNTED, MINIMUM 82 CRI					
J-1								
J-2	-	NF-2	4" X 24" GYP MOUNTED: FLUSH	LED	22W	UNV	PINNACLE	E4A-840VHO-2'-SF(S)-U-OL1-1-W
I-1	-{		SATIN LENS, LED, 0-10V DIMMING; ~2000 LUMENS				AXIS MARK	BMRLED-1000-80-40-DS SL4L LOP-2FT-FLP-GB-80CRI-40K-1000LMF
	_ <u>}</u>	NI -4	SATIN LENS, LED, 0-10V DIMMING;	LLD	4010	ONV	AXIS	BMRLED-1000-80-40-DS
			~4000 LUMENS				MARK	SL4L LOP-4FT-FLP-GB-80CRI-40K-1000LMF
	4	ENF-4	4" X 48" GYP MOUNTED: FLUSH	LED	43W	UNV	PINNACLE	E4A-840VHO-4'-SF(S)-U-OL1-1B-W
	2		~4000 LUMENS; BATTERY PACK.				MARK	SL4L LOP-4FT-FLP-GB-80CRI-40K-1000LMF-E10WLCP
	m	TX	SPECIAL FIXTURES AS INDICATED MEET		REMENTS		TIONS AND FIXTUR	RE SCHEDULE VISUAL AND
			FINISH APPROVAL REQUIRED.					
		TX-1	GOOSENECK WALL LAMP: 65LM 4700K, BRONZE OR BRUSHED STEEL,	LED	1W	(120V)	ACCESS	62089LED-BRZ
			WALL MOUNTED					
		UC	WALL MOUNTED LED UNDERCABINET LIGHT: LOW PROFIL EXTRUDED CLEAR, POLYCARBONATE LE 50,000 HOUR RATED LAMP LIFE; 2700 - 30	E 1" HIGH X NS; INTERN 00 DEG KEL	1-3/4"DEEI AL LED DR VIN COLOF	P X LENGTH AS IVER; EFFICAC R TEMPERATU	S NOTED; EXTRUE Y GREATER THAN RE, WIRING COMP	40 LUMENS PER WATT; ARTMENT; FLUSH END.
		UC	WALL MOUNTED LED UNDERCABINET LIGHT: LOW PROFIL EXTRUDED CLEAR, POLYCARBONATE LE 50,000 HOUR RATED LAMP LIFE; 2700 - 30 CONNECTORS FOR ROW INSTALLATION NUMBERS - CONNECTOR CONFIGURATIO	E 1" HIGH X NS; INTERN 00 DEG KEL CONNECTC	1-3/4"DEEI AL LED DR .VIN COLOF)RS ARE NO ELD DETER	P X LENGTH AS IVER; EFFICAC R TEMPERATU OT INCLUDED RMINED BY COI	S NOTED; EXTRUD CY GREATER THAN RE, WIRING COMP IN THE FIXTURE SO NTRACTOR PRIOR	40 LUMENS PER WATT; ARTMENT; FLUSH END. CHEDULE CATALOG TO PURCHASE)
		UC UC-98	WALL MOUNTED LED UNDERCABINET LIGHT: LOW PROFIL EXTRUDED CLEAR, POLYCARBONATE LE 50,000 HOUR RATED LAMP LIFE; 2700 - 30 CONNECTORS FOR ROW INSTALLATION NUMBERS - CONNECTOR CONFIGURATIO SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE LED 10" NOMINAL	E 1" HIGH X NS; INTERN 00 DEG KEL (CONNECTC IN TO BE FIE LED	1-3/4"DEEI AL LED DR .VIN COLOF)RS ARE NO <u>ELD DETER</u> 3W	P X LENGTH AS IVER; EFFICAC R TEMPERATU OT INCLUDED RMINED BY COI 120V	S NOTED; EXTRUD CY GREATER THAN RE, WIRING COMP IN THE FIXTURE SO NTRACTOR PRIOR ALKCO WACLIGHTING	40 LUMENS PER WATT; ARTMENT; FLUSH END. CHEDULE CATALOG TO PURCHASE). LINCS100-L10-120-WHG
		UC UC-98	WALL MOUNTED LED UNDERCABINET LIGHT: LOW PROFIL EXTRUDED CLEAR, POLYCARBONATE LE 50,000 HOUR RATED LAMP LIFE; 2700 - 30 CONNECTORS FOR ROW INSTALLATION NUMBERS - CONNECTOR CONFIGURATIO SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE, LED, 10" NOMINAL LENGTH, GLOSSY WHITE, ~345 LUMENS	E 1" HIGH X NS; INTERN 00 DEG KEL (CONNECTC N TO BE FIE LED	1-3/4"DEEI AL LED DR .VIN COLOI)RS ARE NO <u>ELD DETER</u> 3W	P X LENGTH AS RIVER; EFFICAC R TEMPERATU OT INCLUDED RMINED BY COI 120V	S NOTED; EXTRUD CY GREATER THAN RE, WIRING COMP IN THE FIXTURE SO NTRACTOR PRIOR ALKCO WAC LIGHTING KENALL	40 LUMENS PER WATT; ARTMENT; FLUSH END. CHEDULE CATALOG TO PURCHASE). LINCS100-L10-120-WHG
		UC UC-98	WALL MOUNTED LED UNDERCABINET LIGHT: LOW PROFIL EXTRUDED CLEAR, POLYCARBONATE LE 50,000 HOUR RATED LAMP LIFE; 2700 - 30 CONNECTORS FOR ROW INSTALLATION NUMBERS - CONNECTOR CONFIGURATIO SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE, LED, 10" NOMINAL LENGTH, GLOSSY WHITE, ~345 LUMENS MINIMUM	E 1" HIGH X NS; INTERN 00 DEG KEL (CONNECTC <u>N TO BE FIE</u> LED	: 1-3/4"DEEI AL LED DR .VIN COLOI DRS ARE NO ELD DETER 3W	P X LENGTH AS RIVER; EFFICAC R TEMPERATU OT INCLUDED RMINED BY COI 120V	S NOTED; EXTRUD CY GREATER THAN RE, WIRING COMP IN THE FIXTURE SO NTRACTOR PRIOR ALKCO WAC LIGHTING KENALL HEALTHCARE	40 LUMENS PER WATT; ARTMENT; FLUSH END. CHEDULE CATALOG <u>TO PURCHASE).</u> LINCS100-L10-120-WHG
		UC-98 UC-99	WALL MOUNTED LED UNDERCABINET LIGHT: LOW PROFIL EXTRUDED CLEAR, POLYCARBONATE LE 50,000 HOUR RATED LAMP LIFE; 2700 - 30 CONNECTORS FOR ROW INSTALLATION NUMBERS - CONNECTOR CONFIGURATION SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE, LED, 10" NOMINAL LENGTH, GLOSSY WHITE, ~345 LUMENS MINIMUM	E 1" HIGH X NS; INTERN 00 DEG KEL (CONNECTC <u>IN TO BE FIE</u> LED	1-3/4"DEE AL LED DR VIN COLOI DRS ARE N ELD DETER 3W	P X LENGTH AS NVER; EFFICAC R TEMPERATU OT INCLUDED NMINED BY COI 120V	S NOTED; EXTRUD CY GREATER THAN RE, WIRING COMP IN THE FIXTURE SO NTRACTOR PRIOR ALKCO WAC LIGHTING KENALL HEALTHCARE	40 LUMENS PER WATT; ARTMENT; FLUSH END. CHEDULE CATALOG TO PURCHASE). LINCS100-L10-120-WHG
		UC-98 UC-99	WALL MOUNTED LED UNDERCABINET LIGHT: LOW PROFIL EXTRUDED CLEAR, POLYCARBONATE LE 50,000 HOUR RATED LAMP LIFE; 2700 - 30 CONNECTORS FOR ROW INSTALLATION NUMBERS - CONNECTOR CONFIGURATIO SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE, LED, 10" NOMINAL LENGTH, GLOSSY WHITE, ~345 LUMENS MINIMUM SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE, LED, 19" NOMINAL LENGTH, GLOSSY WHITE, ~345 LUMENS	E 1" HIGH X NS; INTERN 00 DEG KEL (CONNECTC <u>IN TO BE FIE</u> LED	1-3/4"DEEI IAL LED DR VIN COLOI DRS ARE N <u>ELD DETEF</u> 3W	P X LENGTH AS NVER; EFFICAC R TEMPERATU OT INCLUDED NMINED BY COI 120V	S NOTED; EXTRUD CY GREATER THAN RE, WIRING COMP IN THE FIXTURE SO NTRACTOR PRIOR ALKCO WAC LIGHTING KENALL HEALTHCARE ALKCO WAC LIGHTING KENALL	40 LUMENS PER WATT; ARTMENT; FLUSH END. CHEDULE CATALOG TO PURCHASE). LINCS100-L10-120-WHG
		UC-98 UC-99	WALL MOUNTED LED UNDERCABINET LIGHT: LOW PROFIL EXTRUDED CLEAR, POLYCARBONATE LE 50,000 HOUR RATED LAMP LIFE; 2700 - 30 CONNECTORS FOR ROW INSTALLATION NUMBERS - CONNECTOR CONFIGURATIC SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE, LED, 10" NOMINAL LENGTH, GLOSSY WHITE, ~345 LUMENS MINIMUM SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE, LED, 19" NOMINAL LENGTH, GLOSSY WHITE, ~345 LUMENS MINIMUM	E 1" HIGH X NS; INTERN 00 DEG KEL (CONNECTC)N TO BE FIE LED	1-3/4"DEEI IAL LED DR .VIN COLOI DRS ARE N <u>ELD DETEF</u> 3W	P X LENGTH AS RIVER; EFFICAC R TEMPERATU OT INCLUDED RMINED BY COI 120V	S NOTED; EXTRUD CY GREATER THAN RE, WIRING COMP IN THE FIXTURE SO NTRACTOR PRIOR ALKCO WAC LIGHTING KENALL HEALTHCARE ALKCO WAC LIGHTING KENALL HEALTHCARE	40 LUMENS PER WATT; ARTMENT; FLUSH END. CHEDULE CATALOG TO PURCHASE). LINCS100-L10-120-WHG
		UC-98 UC-99	WALL MOUNTED LED UNDERCABINET LIGHT: LOW PROFIL EXTRUDED CLEAR, POLYCARBONATE LE 50,000 HOUR RATED LAMP LIFE; 2700 - 30 CONNECTORS FOR ROW INSTALLATION NUMBERS - CONNECTOR CONFIGURATIO SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE, LED, 10" NOMINAL LENGTH, GLOSSY WHITE, ~345 LUMENS MINIMUM SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE, LED, 19" NOMINAL LENGTH, GLOSSY WHITE, ~345 LUMENS MINIMUM	E 1" HIGH X NS; INTERN 00 DEG KEL (CONNECTC <u>IN TO BE FIE</u> LED	1-3/4"DEEI IAL LED DR .VIN COLOI DRS ARE N <u>ELD DETEF</u> 3W 6W	P X LENGTH AS RIVER; EFFICAC R TEMPERATU OT INCLUDED RMINED BY COI 120V	S NOTED; EXTRUD CY GREATER THAN RE, WIRING COMP IN THE FIXTURE SO NTRACTOR PRIOR ALKCO WAC LIGHTING KENALL HEALTHCARE ALKCO WAC LIGHTING KENALL HEALTHCARE	40 LUMENS PER WATT; ARTMENT; FLUSH END. CHEDULE CATALOG TO PURCHASE). LINCS100-L10-120-WHG
		UC-98 UC-99 UC-99 WM	WALL MOUNTED LED UNDERCABINET LIGHT: LOW PROFIL EXTRUDED CLEAR, POLYCARBONATE LE 50,000 HOUR RATED LAMP LIFE; 2700 - 30 CONNECTORS FOR ROW INSTALLATION NUMBERS - CONNECTOR CONFIGURATIO SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE, LED, 10" NOMINAL LENGTH, GLOSSY WHITE, ~345 LUMENS MINIMUM SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE, LED, 19" NOMINAL LENGTH, GLOSSY WHITE, ~345 LUMENS MINIMUM SURFACE MOUNTED, 5" WIDE FIXTURE LO WALL MOUNT, 24" FIXTURE,	E 1" HIGH X NS; INTERN 00 DEG KEL (CONNECTC <u>IN TO BE FIE</u> LED	2 1-3/4"DEEI IAL LED DR VIN COLOI DRS ARE N <u>ELD DETEF</u> 3W 6W <u>6W</u>	P X LENGTH AS IVER; EFFICAC R TEMPERATU OT INCLUDED MINED BY COI 120V 120V	S NOTED; EXTRUD Y GREATER THAN RE, WIRING COMP IN THE FIXTURE SO NTRACTOR PRIOR ALKCO WAC LIGHTING KENALL HEALTHCARE ALKCO WAC LIGHTING KENALL HEALTHCARE	ALUMINUM BODY; 40 LUMENS PER WATT; ARTMENT; FLUSH END. CHEDULE CATALOG TO PURCHASE). LINCS100-L10-120-WHG LINCS100-L19-120-WHG
		UC-98 UC-99 UC-99 WM WM-2	WALL MOUNTED LED UNDERCABINET LIGHT: LOW PROFIL EXTRUDED CLEAR, POLYCARBONATE LE 50,000 HOUR RATED LAMP LIFE; 2700 - 30 CONNECTORS FOR ROW INSTALLATION NUMBERS - CONNECTOR CONFIGURATIO SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE, LED, 10" NOMINAL LENGTH, GLOSSY WHITE, ~345 LUMENS MINIMUM SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE, LED, 19" NOMINAL LENGTH, GLOSSY WHITE, ~345 LUMENS MINIMUM SURFACE MOUNTED, 5" WIDE FIXTURE LO WALL MOUNT, 24" FIXTURE, STEEL HOUSING WITH WHITE POWDER COAT EINISH: LUMINOUR MAUNTED	E 1" HIGH X NS; INTERN 00 DEG KEL (CONNECTC N TO BE FIE LED LED	E 1-3/4"DEEI IAL LED DR VIN COLOI DRS ARE N ELD DETEF 3W 6W 6W	P X LENGTH AS RIVER; EFFICAC R TEMPERATU OT INCLUDED RMINED BY COI 120V 120V	S NOTED; EXTRUD Y GREATER THAN RE, WIRING COMP IN THE FIXTURE SO NTRACTOR PRIOR ALKCO WAC LIGHTING KENALL HEALTHCARE ALKCO WAC LIGHTING KENALL HEALTHCARE	ALUMINUM BODY; 40 LUMENS PER WATT; ARTMENT; FLUSH END. CHEDULE CATALOG TO PURCHASE). LINCS100-L10-120-WHG LINCS100-L19-120-WHG MLHA5-24-F-MW-PP-25L40K-DCC-DV
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100% Construction Documents

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GENERAL SHEET NOTES

1

- PROVIDE LABELS ON ALL NEW DEVICES PER PROJECT SPECIFICATIONS CONFORMING WITH DIVISION 26 SPECIFICATIONS FOR IDENTIFICATION OF ELECTRICAL EQUIPMENT AND INTERMOUNTAIN'S DIVISION 27 SPECIFICATIONS PRIOR TO SUBSTANTIAL COMPLETION.
- BASIC OCCUPANCY SENSOR APPLICATION SEQUENCE OF OPERATION: LIGHT SWITCH TURNS LIGHTS ON AND OFF. LIGHTS AUTOMATICALLY TURN OFF AFTER UNOCCUPIED PERIOD AND AUTOMATICALLY TURN ON UPON DETECTION OF MOTION.
- BASIC VACANCY SENSOR APPLICATION SEQUENCE OF OPERATION: LOW VOLTAGE LIGHT SWITCH TURNS LIGHTS ON AND OFF. LIGHTS AUTOMATICALLY TURN OFF AFTER UNOCCUPIED PERIOD AND DO NOT AUTOMATICALLY TURN ON UPON DETECTION OF MOTION.

⊖SHEET KEYNOTES

- 1 EXTEND AND CONNECT UNDERCABINET LIGHTING TO RECEPTACLE CIRCUITING SERVING SPACE.
- 2 PRICE CEILING FAN AS AN ADD ALTERNATE.
- 3 PROVIDE JUNCTION BOX FOR POWER CONNECTION TO ILLUMINATED SIGNAGE. COORDINATE EXACT LOCATION WITH OWNER IN FIELD. CONNECT BRANCH CIRCUIT THROUGH TIME CLOCK FOR AUTOMATIC CONTROL.
- 4 EXTEND AND CONNECT TIME CLOCK TO NEAREST RECEPTACLE CIRCUITING SERVING SPACE.
- 5 PROVIDE DIGITAL PROGRAMABLE ASTRONOMIC TIME CLOCK (TORK DWZ200B OR EQUIVALENT) FOR AUTOMATIC LIGHTING CONTROL.
- 6 CONNECT WALL MOUNTED LIGHTING FIXTURE TO RECEPTACLE CIRCUIT SERVING SPACE.

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GENERAL SHEET NOTES

2

PROVIDE LABELS ON ALL NEW DEVICES PER PROJECT SPECIFICATIONS CONFORMING WITH DIVISION 26 SPECIFICATIONS FOR IDENTIFICATION OF ELECTRICAL EQUIPMENT AND INTERMOUNTAIN'S DIVISION 27 SPECIFICATIONS PRIOR TO SUBSTANTIAL COMPLETION.

○ SHEET KEYNOTES

PROVIDE MULLION MOUNTED CARD READER.

2 MOUNT SECURITY CAMERA ON UNDERSIDE OF EXTERIOR WALKWAY CANOPY.

