NJRA Architects, Inc.
5272 S. College Drive, Suite 104 | Murray, Utah 84123 | 801.364.9259 | www.njraarchitects.com

ADDENDUM

Date Issued:	Nov 13, 2020
Project:	Intermountain Healthcare Intermountain Logan Regional Hospital - ASC 1350 North 500 East Logan, UT 84341
Addendum Number:	1

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.

Item Number	General Items Description
1	Questions by contractors and their response: **Question #1:** What is the man and material access that is being allowed to the project location? Is Stair #2 available for construction use? Is an existing building elevator available for construction use? **Response:** Yes, the west elevator is a freight elevator for construction use. Stair # 2 can be used for construction use. **Question # 2:** Does emergency egress through the project area have to be provided to other tenants to Stair #2? **Response:** No, the Fire Marshal deemed it is not a required exit after construction is complete and would not be required during construction either. **Question #3:** Are there any time limitations during the day when loud demolition work occurs and when work is required in other occupied spaces (i.e. – sanitary plumbing lines below the floor deck)? **Response:** Yes, there will be work restrictions to limit impact to an occupied health care facility. This will be addressed during the Pre-Bid walkthrough. **Question # 4:** Section 01 50 00 – Temporary Facilities and Controls states that the contractor is to pay for all utility charges. Unless the project space is metered separately from the rest of the building, is it possible to measure those costs? **Response:** The GC should not need to bring in any separate utilities from the facility. Power should be available in the shelled space and will not need to be metered separately. The Owner can back charge the project for additional monthly average costs. Water can be provided from an exterior hydrant as needed. **Question # 5:** What is the type membrane material and manufacturer of the existing roofing system? Does the existing roofing warranty require us to use the original membrane roof installer? **Response:** I have added the existing roofing submittal for the Budge Clinic to the same folder as the drawings for your reference.

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Item Number	General Items Description
	Question # 6: What is the height of the existing curtain walls at all locations? Are there existing exterior building elevations available to determine quantities? **Response:** I have included existing building drawings/elevations and photos of existing space in the same folder as the drawings for your reference. Existing drawings were provided to us by owner. **Question # 7:** Are there any windows to remain exposed in Prep / Recovery 4 similar to the other Prep / Recovery rooms? **Response:** Yes the top portion of the windows on the west side to remain exposed to view. Reference elevation detail 1,3, and 4 on sheet A251 and section detail 14/A503A. See attached picture of west side of the existing shelled space below.  **Question # 8:** The Invitation to Bid states that a Bid Form is included in the Project Manual, but none has been found. Please provide. We need one for each project. **Response:** See attached Bid Forms for both projects. **Question # 9:** Bid Alternate #2 stated on G002 is differently worded then the Bid Alternate #2 stated on M001. Which is correct? **Response:** Revised Bid Alternates 1 and 2 on architectural sheet G002 to match mechanical. See attached Sheet G002 **Question # 10:** What exterior site area is available for material unloading and construction use? **Response:** An outdoor staging area will be identified prior to or during the pre-bid walkthrough.

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Sheet Number	Drawings
Architectural Drawings	
G002	Revised Bid Alternates 1 and 2 on architectural sheet G002 to match mechanical.
A141A	Added ICRA barriers
A143A, A144A, A147A, A149A	Per owner request, added counter mounted Omnicell in PACU # 1. Revised depth of counter and column furring wall to accommodate Omnicell. Provide two in-wall countertop supports per detail 5/A505B
A145A	Added ceiling mounted camera above Omnicell.
A251, A252	Per owner's request, deleted wall mounted light fixture in the Pre/Recovery and PACU bays.
Mechanical Drawings	
	See attached mechanical addendum.
Electrical Drawings	
	See attached electrical addendum.

Attachments:

Architectural Drawings: G002, A141A, A143A, A144A, A145A, A147A, A149A, A251, and A252

BID FORM

TO: Shannon Brown
Email: Shannon.Brown@imail.org

PROJECT: **Intermountain Healthcare LRH Campus Reconfiguration - ASC**
1350 North, 500 East
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, Ambulatory Surgical Center (ASC) 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:

Provide cost for each of the add alternates listed below

Bid Alternate # 01:
Prefabricated modular ceiling system for operating rooms 1 and 2.

_____**Dollars $_____ (Add)**

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

Bid Alternate # 02:
Prefabricated modular ceiling system for operating rooms 1, 2 and 3.

_____**Dollars $_____ (Add)**

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

Bid Alternate # 03:
Stainless steel modular wall panel system for operating rooms 1, 2 and 3.

_____**Dollars $_____ (Add)**

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

ADDENDA:

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

Addendum #01:
Addendum #02:
Addendum #03:

SCHEDULE OF VALUES:

I/We have attached with this Bid Form our Schedule of Values (Section 01 4373) which reflects the above Base Bid. We submit this for Owner review of subcontractors that are being proposed for this Project.

TYPE OF ORGANIZATION:

(Corporation, Partnership, Individual, etc.) _____

SEAL (If a Corporation)

Respectfully Submitted,

_____
Name of Bidder

_____

_____
Authorized Signature

BID FORM

TO: Shannon Brown
Email: Shannon.Brown@imail.org

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:
Addendum #02:
Addendum #03:

SCHEDULE OF VALUES:

I/We have attached with this Bid Form our Schedule of Values (Section 01 4373) which reflects the above Base Bid. We submit this for Owner review of subcontractors that are being proposed for this Project.

TYPE OF ORGANIZATION:

(Corporation, Partnership, Individual, etc.) _____

SEAL (If a Corporation)

Respectfully Submitted,

_____
Name of Bidder

_____

_____
Authorized Signature

INTERIM LIFE SAFETY MEASURES

IMPLEMENTATION OF INTERIM LIFE SAFETY MEASURES (ILSM) IS REQUIRED IN OR ADJACENT TO ALL CONSTRUCTION AREAS AND THROUGHOUT BUILDINGS WITH EXISTING LSC DEFICIENCIES. ILSM APPLY TO ALL PERSONNEL, INCLUDING CONSTRUCTION WORKERS, MUST BE IMPLEMENTED UPON PROJECT DEVELOPMENT, AND CONTINUOUSLY ENFORCED THROUGH PROJECT COMPLETION. ILSM ARE INTENDED TO PROVIDE A LEVEL OF LIFE SAFETY COMPARABLE TO THAT DESCRIBED IN CHAPTERS 1 THROUGH 7, 31 AND THE APPLICABLE OCCUPANCY CHAPTERS OF THE LSC. EACH ILSM ACTION MUST BE DOCUMENTED THROUGH WRITTEN POLICIES AND PROCEDURES. EXCEPT AS STATED BELOW, FREQUENCIES FOR INSPECTION, TESTING, TRAINING, AND ILSM CONSIST OF THE FOLLOWING ACTIONS:

1 ENSURING EXITS PROVIDE FREE AND UNOBSTRUCTED EGRESS. PERSONNEL SHALL RECEIVE TRAINING IF ALTERNATIVE EXITS MUST BE DESIGNATED. BUILDINGS OR AREAS UNDER CONSTRUCTION MUST MAINTAIN ESCAPE FACILITIES FOR CONSTRUCTION WORKERS AT ALL TIMES. MEANS OF EGRESS IN CONSTRUCTION AREAS MUST BE INSPECTED DAILY.

2 ENSURING FREE AND UNOBSTRUCTED ACCESS TO EMERGENCY DEPARTMENTS/ SERVICES AND FOR EMERGENCY FORCES.

3 ENSURE FIRE ALARM, DETECTION, AND SUPPRESSION SYSTEMS ARE NOT IMPAIRED. A TEMPORARY, BUT EQUIVALENT, SYSTEM SHALL BE PROVIDED WHEN ANY FIRE SYSTEM IS IMPAIRED. TEMPORARY SYSTEMS MUST BE INSPECTED AND TESTED MONTHLY.

4 ENSURING TEMPORARY CONSTRUCTION PARTITIONS ARE SMOKE TIGHT AND BUILT OF NONCOM OR LIMITED COMBUSTIBLE MATERIALS THAT WILL NOT CONTRIBUTE TO THE DEVELOPMENT OR SPREAD OF FIRE. ALL TEMPORARY CONSTRUCTION BARRIERS SHALL MEET THE REQUIREMENTS OF NFPA 241.

5 INSTALL TEMPORARY FIRE EXTINGUISHERS AND UTILIZE SPECIALLY TRAINED PERSONNEL AS NEEDED.

6 PROHIBITING SMOKING IN ACCORDANCE WITH MA.1.3.15 AND IN OR ADJACENT TO ALL CONSTRUCTION AREAS.

7 DEVELOPING AND ENFORCING STORAGE, HOUSEKEEPING, AND DEBRIS REMOVAL PRACTICES THAT REDUCE THE FLAMMABLE AND COMBUSTIBLE FIRE LOAD OF THE BUILDING TO THE LOWEST LEVEL NECESSARY FOR DAILY OPERATIONS.

8 CONDUCTING A MINIMUM OF TWO FIRE DRILLS PER SHIFT PER QUARTER.

9 INCREASING HAZARD SURVEILLANCE OF BUILDINGS, GROUNDS, AND EQUIPMENT WITH SPECIAL ATTENTION TO EXCAVATIONS, CONSTRUCTION AREAS CONSTRUCTION STORAGE, AND FIELD OFFICES.

10 CONDUCTING ORGANIZATION WIDE SAFETY EDUCATION PROGRAMS TO ENSURE AWARENESS OF ANY LSC DEFICIENCIES, CONSTRUCTION HAZARDS, AND THESE ILSM.

INFECTION CONTROL RISK ASSESSMENT

CONSTRUCTION ACTIVITY TYPE
Type D:
Major demolition or construction that creates major disruption, i.e. noise, dust, vibration, odor, or mechanical systems
includes, but not limited to:
- heavy demolition or removal of a complete cabling system
- new construction or buildout of shelled space

INFECTION CONTROL RISK GROUP
Highest:

CONSTRUCTION CLASS
Construction Activity Type:

IC Risk Group	Type A	Type B	Type C	Type D
Lowest	Class I	Class II	Class II	Class III
Medium	Class I	Class II	Class III	Class IV
High	Class I	Class II	Class IV	Class IV
Highest	Class II	Class IV	Class IV	Class IV

INFECTION CONTROL PROTOCOLS
During Construction (Class IV):
- Perform work using methods to minimize raising dust or tracking dust into other areas.
- Immediately replace ceiling tile upon completion of inspection.
- Use active dust control measures.
- Use water mist to control dust while cutting.
- Seal doors, ducts, vents and HVAC units.
- Place dust control mats at entries to work area; keep them clean and effective.
- Remove debris only in tightly covered containers.
- Construct barriers to prevent dust and other contaminant migration prior to beginning work.
- Maintain negative air pressure in work space using HEPA filtration units.
- Seal all pipes, conduits and penetrations.
- Construct and use anteroom for all entry to work area; HEPA vacuum all personnel, or have them change clothing before they leave the work area.
- All personnel wear shoe covers while in the work area and remove then before entering the hospital.

Upon Completion (Class IV):
- Clean work area.
- Wipe all horizontal surfaces with disinfectant.
- Remove final debris only in tightly covered containers.
- Vacuum using HEPA filtered vacuum; mop with disinfectant as appropriate.
- Remove all seals from doors, ducts, vents and HVAC units.
- Remove construction barriers in a manner that minimizes the spread of dust and debris.

PROJECT DESCRIPTION

THE SCOPE OF THE PROJECT INCLUDES CONSTRUCTION OF A NEW OUTPATIENT AMBULATORY SURGERY CENTER (ASC) IN THE PREVIOUSLY SHELLED SPACE ON THE FOURTH FLOOR OF THE BUDGE CLINIC. THE ASC WILL HAVE THREE OPERATING ROOMS, FOUR PACU BAYS, EIGHT PREP/RECOVERY BAYS AND ASSOCIATED SUPPORT SPACES FOR STAFF AND PATIENTS. THE APPROXIMATE SQUARE FOOTAGE OF THE PROJECT IS 11,454 SF.

REVIEWING AGENCY:
SINCE THIS IS AN OUTPATIENT CLINIC BUT LICENSED UNDER THE HOSPITAL, THE PROJECT WILL BE REVIEWED BY THE FOLLOWING AGENCIES:
1. LOGAN CITY
2. UTAH DEPARTMENT OF HEALTH
3. STATE FIRE MARSHAL

BID ALTERNATES

1

BID ALTERNATE # 1
PROVIDE A PRE-FABRICATED MODULAR CEILING SYSTEM FOR OPERATING ROOMS 1 AND 2. CEILING COMPONENTS TO INCLUDE SUPPLY DIFFUSERS, LIGHTING, CEILING STRUTURE SUPPORTS, AND RELATED DESIGN SERVICES. BASE BID TO BE HARD LID CEILING WITH LIGHTS, DIFFUSERS, MED GASES AND CEILING MOUNTED BOOM AS SHOWN ON THE DRAWINGS. ALSO SEE MECHANICAL AND ELECTRICAL DRAWINGS.

BID ALTERNATE # 2
PROVIDE A PRE-FABRICATED MODULAR CEILING SYSTEM FOR OPERATING ROOMS 1, 2, AND 3. CEILING COMPONENTS TO INCLUDE SUPPLY DIFFUSERS, LIGHTING, CEILING STRUTURE SUPPORTS, AND RELATED DESIGN SERVICES. BASE BID FOR OR'S 1 AND 2 TO BE HARD LID CEILING WITH LIGHTS, DIFFUSERS, MED GASES AND CEILING MOUNTED BOOM AS SHOWN ON THE DRAWINGS. BASE BID FOR OR #3 TO BE NO CEILING WITH ALL WALLS TO STRUCTURE ABOVE AS SHOWN ON THE DRAWINGS. ALSO SEE MECHANICAL AND ELECTRICAL DRAWINGS.

BID ALTERNATE # 3
PROVIDE STAINLESS STEEL MODULAR WALL PANEL SYSTEM FOR OPERATING ROOMS 1, 2 AND 3. BASIS OF DESIGN MFPHD. CONTACT: JASON KEITH. CELL: 254-715-4426. E-MAIL: JKEITH@MFPHD.COM. BASE BID TO BE METAL STUD WALLS AS SHOWN ON THE DRAWINGS. ALSO SEE MECHANICAL AND ELECTRICAL DRAWINGS.

VICINITY MAP

ABBREVIATIONS

&	AND
@	AT
Ø	DIAMETER
(E), EXIST.	EXISTING
(N)	NEW
d	PENNY
#	POUND OR NUMBER
A	
AC	ACOUSTIC
ADD	ADDENDUM
A/C	AIR CONDITIONING
ALT.	ALTERNATE
AL	ALUMINUM
A.B.	ANCHOR BOLT
ARCH	ARCHITECT(URAL)
ASP.	ASPHALT
B	
BSMT.	BASEMENT
B.M.	BENCHMARK
BLKG.	BLOCKING
BD.	BOARD
B.O.	BOTTOM OF
BLDG.	BUILDING
C	
CABT	CABINET
C.I.P.	CAST IN PLACE
C.B.	CATCH BASIN
CLG.	CEILING
CL	CENTER LINE
C.T.	CERAMIC TILE
CH	CHANNEL
C.O.	CLEAN OUT
CLR.	CLEAR
CL.	CLOSET
COL.	COLUMN
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
COND.	CONDITION
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONT	CONTINUOUS
C.J	CONTROL JOINT
D	
D.P.	DAMP PROOFING
D.B.	DECK BEARING
DIAG.	DIAGONAL
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DWL.	DOWEL
DN.	DOWN
D.S.	DOWN SPOUT
D.W.V.	DRAINAGE WASTE VENT
DWG.	DRAWING
E	
EA.	EACH
E.W.C.	ELEC. WATER COOLER
EL.	ELECTRIC
ELEV.	ELEVATION
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXH.	EXHAUST
EXIST.	EXISTING
E.J.	EXPANSION JOINT
EXT.	EXTERIOR
F	
FT.	FEET
FIN.	FINISH(ED)
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
FIXT.	FIXTURE
FL.	FLASHING
G	
GALV.	GALVANIZED
GA.	GAUGE
G.C.	GENERAL CONTRACTOR
G.S.N.	GENERAL STRUCTURAL NOTES
GL.	GLASS
GD.	GRADE
GRL.	GRILLE
GRD.	GROUND
GYP.	GYPSUM
H	
HDW.	HARDWARE
HDWD.	HARDWOOD
HTR.	HEATER
HT.	HEIGHT
H.P.	HIGH POINT
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.B.	HOSE BIB
H.W.	HOT WATER
HR.	HOUR
I	
IN.	INCH
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT
J	
JAN.	JANITOR
JT.	JOINT
JST.	JOIST
L	
LAM.	LAMINATED
LDG.	LANDING
LAV.	LAVATORY
LT.	LIGHT
L.W.C.	LIGHT WEIGHT CONCRETE
LVR.	LOUVER
M	
M.B.	MACHINE BOLT
MFR.	MANUFACTURER
M.O.	MASONRY OPENING
MATL	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MTL.	METAL
MIN.	MINIMUM
MLDG.	MOLDING
MULL.	MULLION
N	
N.G.	NATURAL GRADE
NOM.	NOMINAL
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O	
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.S.	OVERFLOW SCUPPER
O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
P	
PT.	PAINT
PTD.	PAINTED
PR.	PAIR
PNL.	PANEL
d	PENNY
P.L.	PLASTIC LAMINATE
PL.	PLATE
PLBG.	PLUMBING
P.S.I.	POUND PER SQUARE INCH
P.S.F.	POUNDS PER SQUARE FOOT
R	
RAD.	RADIUS
REC.	RECOMMENDATION
REG.	REGISTER
REQ'D	REQUIRED
R.A.	RETURN AIR
REV.	REVISION
R.D.	ROOF DRAIN
RFG.	ROOFING
RM.	ROOM
RGH.	ROUGH
RND.	ROUND
S	
SCR.	SCREW
SECT.	SECTION
SEL.	SELECT
SHT.	SHEET
SIM.	SIMILAR
SLDG.	SLIDING
SM.	SMOOTH
SPEC.	SPECIFICATION
SPL.	SPLASH
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STRUC.	STRUCTURE
S.A.	SUPPLY AIR
SUSP.	SUSPENDED
SW.BD.	SWITCHBOARD
T	
TELCO	TELEPHONE COMPANY
T.G.	TEMPERED GLASS
T&G	TONGUE & GROOVE
T&B	TOP & BOTTOM
T.O.	TOP OF
T.O.C.	TOP OF CURB
T.O.D.	TOP OF DECK
T.O.P.	TOP OF PARAPET
TYP.	TYPICAL
U	
U.N.O.	UNLESS NOTED OTHERWISE
V	
V.	VENT
V.T.R.	VENT THROUGH ROOF
VERT.	VERTICAL
V.G.	VERTICAL GRAIN
VEST.	VESTIBULE
V.C.T.	VINYL COMPOSITION TILE
V.C.P.	VITREOUS CLAY PIPE
W	
W.C.	WATER CLOSET
W.H.	WATER HEATER
W.R.	WATER RESISTANT
W.P.	WATERPROOF
W.W.F.	WELDED WIRE FABRIC
W.F.	WIDE FLANGE
WDW.	WINDOW
W/	WITH
W/O	WITHOUT
WD.	WOOD

DEFERRED SUBMITTALS

THE CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE BUILDING OFFICIAL FOR REVIEW WITH AN ACCOMPANYING LETTER FROM THE ARCHITECT STATING THAT THE CONTENTS OF THE SUBMITTAL ARE IN CONFORMANCE WITH THE DESIGN. WORK RELATED TO THE DEFERRED SUBMITTAL IS NOT TO COMMENCE UNTIL THE BUILDING OFFICIAL HAS APPROVED THE SUBMITTAL.

1. DETAILS AND ENGINEERING CALCULATIONS FOR ALL NONSTRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS. THESE SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7-05. REFERENCE IBC SECTION 1613.1. THIS INCLUDES:
   - ELECTRICAL SYSTEMS
   - MECHANICAL SYSTEMS
   - PLUMBING SYSTEMS
   - DECORATIVE ARCHITECTURAL COMPONENTS.

2. DETAILS AND ENGINEERING CALCULATIONS FOR THE FIRE SPRINKLER AND FIRE DETECTION SYSTEMS, WHICH ARE TO BE DESIGN-BUILD BY THE CONTRACTOR TO COMPLY WITH NFPA 13 AND SHALL INCLUDE:
   - FIRE ALARM PLANS (INCLUDING CO DETECTOR LOCATIONS)
   - AUTOMATIC FIRE SPRINKLER PLANS

3. STRUCTURAL TRUSS AND JOIST DESIGNS (AS LISTED IN THE STRUCTURAL DRAWINGS).

SPECIAL INSPECTIONS

1. SEE STRUCTURAL DRAWINGS FOR SPECIAL INSPECTIONS REQUIRED.
2. FIRESTOPPING PENETRATIONS

DEFINITIONS

1. GENERAL: BASIC CONTRACT DEFINITIONS ARE INCLUDED IN THE CONDITIONS OF THE CONTRACT.
2. "APPROVED": WHEN USED TO CONVEY ARCHITECT'S ACTION ON CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, "APPROVED" IS LIMITED TO ARCHITECT'S DUTIES AND RESPONSIBILITIES AS STATED IN THE CONDITIONS OF THE CONTRACT.
3. "DIRECTED": A COMMAND OR INSTRUCTION BY ARCHITECT. OTHER TERMS INCLUDING "REQUESTED," "AUTHORIZED," "SELECTED," "REQUIRED," AND "PERMITTED" HAVE THE SAME MEANING AS "DIRECTED."
4. "INDICATED": REQUIREMENTS EXPRESSED BY GRAPHIC REPRESENTATIONS OR IN WRITTEN FORM ON DRAWINGS, IN SPECIFICATIONS, AND IN OTHER CONTRACT DOCUMENTS. OTHER TERMS INCLUDING "SHOWN," "NOTED," "SCHEDULED," AND "SPECIFIED" HAVE THE SAME MEANING AS "INDICATED."
5. "REGULATIONS": LAWS, ORDINANCES, STATUTES, AND LAWFUL ORDERS ISSUED BY AUTHORITIES HAVING JURISDICTION, AND RULES, CONVENTIONS, AND AGREEMENTS WITHIN THE CONSTRUCTION INDUSTRY THAT CONTROL PERFORMANCE OF THE WORK.
6. "FURNISH": SUPPLY AND DELIVER TO PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS.
7. "INSTALL": UNLOAD, TEMPORARILY STORE, UNPACK, ASSEMBLE, ERECT, PLACE, ANCHOR, APPLY, WORK TO DIMENSION, FINISH, CURE, PROTECT, CLEAN, AND SIMILAR OPERATIONS AT PROJECT SITE.
8. "PROVIDE": FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
9. "PROJECT SITE": SPACE AVAILABLE FOR PERFORMING CONSTRUCTION ACTIVITIES. THE EXTENT OF PROJECT SITE IS SHOWN ON DRAWINGS AND MAY OR MAY NOT BE IDENTICAL WITH THE DESCRIPTION OF THE LAND ON WHICH PROJECT IS TO BE BUILT.

DRAWING INDEX

GENERAL

G001	Cover Sheet
G002	General Information
G003	General Information
G004	American National Standard Institute Requirements
G005	General Legend & Notes
G111	Code Compliance Plan Level 4 - Overall

STRUCTURAL

SE001	General Structural Notes
SE002	Legends & Abbreviations
SF104H	Budge Clinic Level Four Floor Framing Plan
SF105H	Budge Clinic Roof Framing Plan
SF543	Equipment Support Details
SF601	Schedule Sheet
SF602	Concrete Schedule and Setails

ARCHITECTURAL

A140A	Floor Plan Level 4 - Overall
A141A	Demolition Floor Plan Level 4
A142A	Demolition Reflected Ceiling Plan Level 4
A143A	Floor Plan Level 4
A144A	Dimension Floor Plan Level 4
A145A	Reflected Ceiling Plan Level 4
A146A	Roof Plan - Overall
A147A	Finish Plan Level 4
A148A	Floor Pattern Plan Level 4
A149A	Equipment Plan Level 4
A251	Interior Elevations
A252	Interior Elevations
A253	Interior Elevations
A254	Interior Elevations
A255	Interior Elevations
A256	Interior Elevations
A501A	Wall Types
A502A	Wall Details
A502B	Wall Details
A503A	Ceiling Details
A504A	Door & Window Details
A505A	Cabinet Legend & Details
A505B	Cabinet Details
A505C	Cabinet Details
A506A	Details
A601A	Door & Window Schedule
A603A	Finish Schedule & Details

MECHANICAL

M001	Mechanical Symbols, Abbreviations, & General Notes
M141A	Mechanical Demolition Plan - Level 4
M143A	Mechanical New Plan - Level 4
M143A-2	Bid Alternate #1 Mechanical Plans
M143A-3	Bid Alternate #2 Mechanical Plans
M146A	Mechanical Roof Plan
M201A	Mechanical Piping Demolition Plan – Lower Level
M203A	Mechanical Piping New Plan - Lower Level
M241A	Mechanical Piping Demolition Plan - Level 4
M243A	Mechanical Piping New Plan - Level 4
M501	Mechanical Details
M502	Mechanical Details
M503	Mechanical Details
M504	Mechanical Details
M505	Mechanical Details
M506	Mechanical Details
M601	Mechanical Schedules
M602	Mechanical Schedules
M603	Mechanical Schedules
M701	Zoning And Pressurization Plan - Level 4
M702	Mechanical Schematics
M703	Mechanical Schematics
M704	Mechanical Schematics

PLUMBING

P103A	Basement & Mechanical Shaft Plans
P141A	Plumbing Demolition Plan - Level 4
P143A	Plumbing New Plan- Level 4
P243A	Medical Gas New Plan -Level 4
P501	Plumbing Details
P601	Plumbing Schedules
P602	Med Gas Schedules

ELECTRICAL

EEA001	Sheet Index, Abbreviations, And General Notes
EEA100	Level 4 Overall Plan
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EEA701	Typical Mounting Height Details
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EP100	Basement Power Plan
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ETA101	Level 4 Telecommunications Floor Plan
ETA501	Telecom Equipment Rack Elevations
ETA502	Telecom Details
ETA503	Telecom Details
ETA504	Telecom Equipment Rack Grounding Details
ETA601	Telecom Riser Diagram
EYA101	Level 4 Auxiliary Plan
EYA601	Auxiliary Schedules
FAA101	Level 4 Fire Alarm Plan
FAA601	Fire Alarm Riser

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Logan, UT 84341

Intermountain Healthcare

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Wayfinding	

Sheet Reviewer	Author

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STATE OF UTAH
SELVAM RAJAVELU
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Sheet Name
General Information

Sheet Number
G002

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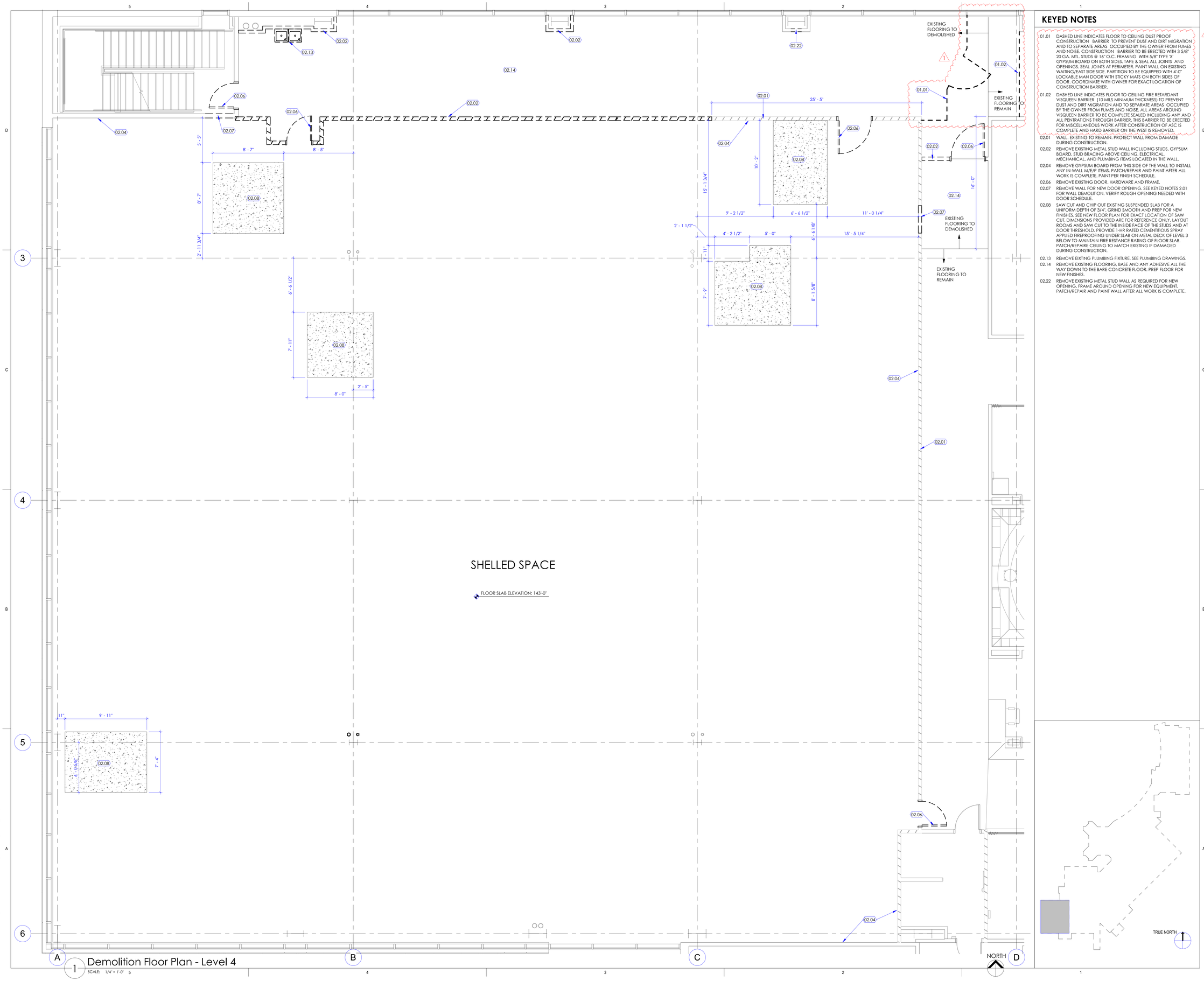

KEYED NOTES

01.01 DASHED LINE INDICATES FLOOR TO CEILING DUST PROOF CONSTRUCTION BARRIER TO PREVENT DUST AND DIRT MIGRATION AND TO SEPARATE AREAS OCCUPIED BY THE OWNER FROM FUMES AND NOISE. CONSTRUCTION BARRIER TO BE ERECTED WITH 3 5/8" 20 GA. MTL. STUDS @ 16" O.C. FRAMING WITH 5/8" TYPE 'X' GYPSUM BOARD ON BOTH SIDES. TAPE & SEAL ALL JOINTS AND OPENINGS, SEAL JOINTS AT PERIMETER. PAINT WALL ON EXISTING WAITING/EAST SIDE SIDE. PARTITION TO BE EQUIPPED WITH 4'-0" LOCKABLE MAN DOOR WITH STICKY MATS ON BOTH SIDES OF DOOR. COORDINATE WITH OWNER FOR EXACT LOCATION OF CONSTRUCTION BARRIER.

01.02 DASHED LINE INDICATES FLOOR TO CEILING FIRE RETARDANT VISQUEEN BARRIER (10 MILS MINIMUM THICKNESS) TO PREVENT DUST AND DIRT MIGRATION AND TO SEPARATE AREAS OCCUPIED BY THE OWNER FROM FUMES AND NOISE. ALL AREAS AROUND VISQUEEN BARRIER TO BE COMPLETE SEALED INCLUDING ANY AND ALL PENTRATIONS THROUGH BARRIER. THIS BARRIER TO BE ERECTED FOR MISCELLANEOUS WORK AFTER CONSTRUCTION OF ASC IS COMPLETE AND HARD BARRIER ON THE WEST IS REMOVED.

02.01 WALL, EXISTING TO REMAIN. PROTECT WALL FROM DAMAGE DURING CONSTRUCTION.

02.02 REMOVE EXISTING METAL STUD WALL INCLUDING STUDS, GYPSUM BOARD, STUD BRACING ABOVE CEILING, ELECTRICAL, MECHANICAL, AND PLUMBING ITEMS LOCATED IN THE WALL.

02.04 REMOVE GYPSUM BOARD FROM THIS SIDE OF THE WALL TO INSTALL ANY IN-WALL M/E/P ITEMS. PATCH/REPAIR AND PAINT AFTER ALL WORK IS COMPLETE. PAINT PER FINISH SCHEDULE.

02.06 REMOVE EXISTING DOOR, HARDWARE AND FRAME.

02.07 REMOVE WALL FOR NEW DOOR OPENING. SEE KEYED NOTES 2.01 FOR WALL DEMOLITION. VERIFY ROUGH OPENING NEEDED WITH DOOR SCHEDULE.

02.08 SAW CUT AND CHIP OUT EXISTING SUSPENDED SLAB FOR A UNIFORM DEPTH OF 3/4". GRIND SMOOTH AND PREP FOR NEW FINISHES. SEE NEW FLOOR PLAN FOR EXACT LOCATION OF SAW CUT. DIMENSIONS PROVIDED ARE FOR REFERENCE ONLY. LAYOUT ROOMS AND SAW CUT TO THE INSIDE FACE OF THE STUDS AND AT DOOR THRESHOLD. PROVIDE 1-HR RATED CEMENTITIOUS SPRAY APPLIED FIREPROOFING UNDER SLAB ON METAL DECK OF LEVEL 3 BELOW TO MAINTAIN FIRE RESTANCE RATING OF FLOOR SLAB. PATCH/REPAIRE CEILING TO MATCH EXISTING IF DAMAGED DURING CONSTRUCTION.

02.13 REMOVE EXITING PLUMBING FIXTURE. SEE PLUMBING DRAWINGS.

02.14 REMOVE EXISTING FLOORING, BASE AND ANY ADHESIVE ALL THE WAY DOWN TO THE BARE CONCRETE FLOOR. PREP FLOOR FOR NEW FINISHES.

02.22 REMOVE EXISTING METAL STUD WALL AS REQUIRED FOR NEW OPENING. FRAME AROUND OPENING FOR NEW EQUIPMENT. PATCH/REPAIR AND PAINT WALL AFTER ALL WORK IS COMPLETE.

1 Demolition Floor Plan - Level 4
SCALE: 1/4" = 1'-0"

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Sheet Name
Demolition Floor Plan Level 4

Sheet Number
A141A

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1 Floor Plan - Level 4

SCALE: 1/4" = 1'-0"

KEYED NOTES

01.08 SEE PACU BAY #4 FOR TYPICAL NOTES. CONTRACTOR TO MOCK UP ONE BAY ON SITE FOR REVIEW BEFORE MOVING FORWARD WITH ALL BAYS.
01.09 SEE PREP/REC. BAY #5 FOR TYPICAL NOTES. CONTRACTOR TO MOCK UP ONE BAY ON SITE FOR REVIEW BEFORE MOVING FORWARD WITH ALL BAYS.
01.10 SEE PREP/RECOVERY BAY #2 FOR TYPICAL NOTES.
01.11 SEE BID ALTERNATES ON SHEET G002 FOR THE MODULAR CEILING AND THE STAINLESS STEEL WALL PANEL SYSTEM. ALSO SEE M/E/P DRAWINGS. CONTRACTOR TO MOCK UP ONE 'OR' ON SITE BEFORE MOVING FORWARD WITH THE REST OF THE OR's
05.07 FORMED ALUMINUM SILL EXTENDER. SEE DETAIL 6/A506A.
05.08 4" X 4" X 1/4" TUBE STEEL POST. ANCHOR TO STRUCTURE ABOVE. SEE DETAIL 8/A504A.
06.03 PLASTIC LAMINATE LOCKERS, 15"W X 18"D X 72"H (3-TIER). PROVIDE P-LAM CLOSER PANEL TO CEILING ABOVE AND 6" HIGH BASE. COORDINATE WITH OWNER FOR NUMBERING. 5% OF THE LOCKERS TO BE ADA ACCESSIBLE.
06.06 SOLID SURFACE COUNTER WITH FULL BULLNOSE EDGE AND INTEGRAL BACKSPLASH. SEE DETAIL 6/A505B. PROVIDE INTEGRAL SIDE SPLASH WHERE COUNTER ABUTS PERPENDICULAR WALL/CABINET.
06.07 STAINLESS STEEL SINK. SEE PLUMBING DRAWINGS.
06.08 SOLID SURFACE INTEGRAL SINK. BASIS OF DESIGN: SAMSUNG, STARON A3181 SINK, COLOR "BRIGHT WHITE" BW010. ALSO SEE PLUMBING DWGS.
06.11 42" W X 20" D SOLID HARDWOOD ADA BENCH WITH FULL BULLNOSE EDGE. TOP OF BENCH TO BE AT 18" AFF. PROVIDE IN-WALL BRACKETS TO SUPPORT BENCH. SEE DETAIL 5/A505C. STAIN WOOD TO MATCH P-LAM.
06.13 8" D WALL TO WALL SOLID SURFACE SHELF WITH FULL BULLNOSE EDGE - NO BACKSPLASH. PROVIDE TWO IN-WALL STEEL BRACKETS. SEE DETAIL 6/A505C.
06.14 18" D WALL TO WALL SOLID SURFACE SHELF WITH FULL BULLNOSE EDGE - NO BACKSPLASH. PROVIDE THREE IN-WALL STEEL BRACKETS. SEE DETAIL 6/A505C.
06.16 SOLID SURFACE TRANSACTION COUNTER WITH FULL BULLNOSE EDGE. SEE FINISH SCHEDULE. SEE DETAIL 7/A506A.
06.17 2'-0" WIDE X 6'-0" HIGH MIRROR WITH 1.5" WIDE X 1" THICK SOLID WOOD TRIM ALL AROUND. STAIN WOOD TO MATCH P-LAM.
08.01 NEW DOOR AND DOOR FRAME. SEE DOOR SCHEDULE.
08.03 ALUMINUM-FRAMED STOREFRONT SYSTEM. BASIS OF DESIGN: KAWNEER TRIFAB VERSA GLAZE 451. GLAZING TO BE 1/4" THICK, CLEAR TEMPERED, CENTER GLAZED, WITH 2" SIGHTLINES AND 4-1/2" FRAME DEPTH. FINISH: ARCHITECTURAL CLASS 1 - CLEAR ANODIZED.
08.07 OVERHEAD AUTOMATED ROLL DOWN SECURITY GRILL. BASIS OF DESIGN CORNELL ROLLING GRILLS, VISION AIRE, MODEL ESG10. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
09.13 PARTIAL HEIGHT WALL WITH SOLID SURFACE TRANSACTION TOP. SEE WALL TYPES AND FINISH SCHEDULE.
09.15 PARTIAL HEIGHT WALL WITH GLAZING ABOVE. SEE DETAIL 14/A506A.
09.18 ADD PRIVACY/ SUN CONTROL FILM ON EXISTING GLAZING FROM ROOM SIDE. BASIS OF DESIGN 3M FASARA FILM. COLOR: SH2MAOW OPAQUE WHITE. TYPICAL AT ALL EXTERIOR WINDOWS WITH FURRING WALL IN FRONT.
10.01 GRAB BAR. PROVIDE GRAB BARS REQUIRED FOR WATER CLOSET, SHOWER, ETC. SEE RELEVANT DETAILS 1/G003 AND 1/G004 FOR MOUNTING HEIGHT, LOCATION, ETC. PROVIDE 'TYPE 2' BACKING PER DETAIL 5/A502A.
10.02 TOILET PAPER DISPENSER, OFCI. SEE SHEET G003 FOR MOUNTING HEIGHT.
10.03 PAPER TOWEL DISPENSER, OFCI. . SEE SHEET G003 FOR MOUNTING HEIGHT.
10.04 SOAP DISPENSER, OFCI. . SEE SHEET G003 FOR MOUNTING HEIGHT.
10.05 TOILET SEAT COVER DISPENSER. SEE SPECIFICATIONS. SEE SHEET G003 FOR MOUNTING HEIGHT.
10.06 SANITARY NAPKIN DISPOSAL. SEE SPECIFICATIONS.
10.08 FOLD DOWN SHOWER SEAT. SEE RELEVANT DETAILS 1/G003 AND 1/G004 FOR MOUNTING HEIGHT, LOCATION, ETC. ALSO SEE DETAIL 5/A506A .
10.09 SHOWER CURTAIN WITH CEILING MOUNTED TRACK. SEE DETAIL 13/A503A.
10.10 SHARPS DISPOSAL. OFCI. SEE SHEET G003 FOR MOUNTING HEIGHT.
10.11 GLOVES DISPENSER, OFCI. SEE SHEET G003 FOR MOUNTING HEIGHT.
10.12 COAT HOOK. BASIS OF DESIGN BOBRICK B-7672 DOUBLE ROBE HOOK.
10.17 METAL LOCKERS, 15"W X 18"D X 72"H (TWO TIER). PROVIDE SLOPED TOP AND 6 INCH HIGH BASE. 5% OF THE LOCKERS TO BE ADA ACCESSIBLE.
10.18 FULLY RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER. SEE 9/A502A.
11.01 REFRIGERATOR, OFCI. SEE ELECTRICAL DRAWINGS.
11.02 MICROWAVE, OFCI. SEE ELECTRICAL DRAWINGS. FOR MICROWAVE IN WALL CABINET PROVIDE OUTLET IN THE CABINET ABOVE WITH A GROMMET OPENING AT THE BASE OF THIS CABINET.
11.05 ICE AND WATER DISPENSER. OWNER FURNISHED CONTRACTOR INSTALLED. SEE PLUMBING DRAWINGS. CAREFULLY CUT AROUND BACKSPLASH BEHIND TO ACCOMMODATE FOR WASHER BOX. BOTTOM OF WALL BOX TO BE ONE INCH ABOVE COUNTERTOP. ALSO SEE ELECTRICAL DRAWINGS FOR POWER.
11.07 COFFEE POT, OFCI. COFFEE POT TO BE PLUMBED. SEE PLUMBING DRAWINGS. ALSO SEE ELECTRICAL DRAWINGS.
11.10 PRINTER/COPIER. OFOI. SEE ELECTRICAL DRAWINGS FOR POWER AND DATA.
11.12 WALL MOUNTED MONITOR/TELEVISION OFCI. SEE ELECTRICAL DRAWINGS. PROVIDE 3'-0" W X 2'-0" H X 18 GA SHEET METAL BACKING. COORDINATE LOCATION OF OUTLETS WITH MONITOR MOUNTING BRACKET.
11.15 AUTOMATED MEDICATION DISPENSER/OMNICELL. OFCI. SEE ELECTRICAL DRAWINGS FOR POWER AND DATA. PROVIDE A CCTV CAMERA ABOVE OMNICELL. SEE CEILING PLAN AND ELECTRICAL DRAWINGS.
11.18 WASTE DISPOSAL, WALL MOUNTED, OFCI.
11.19 EXAM TABLE, OFOI. SEE ELECTRICAL DRAWINGS FOR POWER.
11.20 WALL MOUNTED DIAGNOSTIC BOARD , OFCI. COORDINATE WITH ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS. PROVIDE 'TYPE -2' BACKING PER DETAIL 5/A502A.
11.21 PNEUMATIC TUBE STATION (PTS). PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. CONTRACTOR TO USE SWISSLOG AS THE SUB-CONTRACTOR FOR PTS. (INTERMOUNTAIN HEALTHCARE STANDARD). CONTRACTOR TO FRAME AND FINISH AROUND PTS. ALSO SEE ELECTRICAL DRAWINGS FOR POWER AND DATA REQUIREMENTS. COORDINATE SIZE AND LOCATION OF REQUIRED CORE DRILLS WITH SWISSLOG AND DEPARTMENT/AREA BELOW.
11.22 HIGH DENSITY MOVABLE WIRE SHELVING, OFCI.
11.24 RAIL SYSTEM FOR DETERGENT STORAGE CONTAINERS. FURNISHED BY STERIS, INSTALLED BY CONTRACTOR. PROVIDE 'TYPE 1' BACKING PER DETAIL 5/A502A. COORDINATE EXACT LOCATION WITH STERIS.
11.25 AUTOMATED PASS THROUGH WINDOW. FURNISHED BY STERIS, INSTALLED BY CONTRACTOR. COORDINATE WITH STERIS ON ROUGH OPENING DIMENSIONS. ALSO SEE ELECTRICAL DRAWINGS.
11.26 HEIGHT ADJUSTABLE INSTRUMENT ASSEMBLY TABLES, FURNISHED BY STERIS, INSTALLED BY CONTRACTOR. SEE ELECTRICAL DRAWINGS.
11.27 THREE COMPARTMENT SINK. FURNISHED BY STERIS, INSTALLED BY CONTRACTOR. SEE PLUMBING DRAWINGS.
11.28 ULTRASONIC CLEANER. FURNISHED BY STERIS, INSTALLED BY CONTRACTOR. SEE PLUMBING DRAWINGS.
11.30 PASS THROUGH WASHER. FURNISHED BY STERIS, INSTALLED BY CONTRACTOR. SEE PLUMBING DRAWINGS. PROVIDE A 87" W X 94" H FINISHED OPENING. COORDINATE WITH STERIS.
11.31 SCRUB SINK. OFCI. SINK AND IN-WALL CARRIER PROVIDED BY OWNER, INSTALLED BY CONTRACTOR. ALSO SEE M/E/P DRAWINGS.
11.32 WALL MOUNTED PEG BOARD, OFCI. PROVIDE 'TYPE 2' BACKING PER DETAIL 5/A502A.
11.33 NEPTUNE 2 DOCKING STATION, OFCI. PROVIDE 'TYPE 1' BACKING PER DETAIL 5/A502A. ALSO SEE M/E/P DRAWINGS.
11.34 NURSE CHARTING STATION. SEE DETAIL 13/A502A. ALSO SEE ELECTRICAL DRAWINGS FOR POWER AND DATA.
11.35 PHYSIOLOGICAL MONITOR. SEE DETAIL 13/A502A. ALSO SEE ELECTRICAL DRAWINGS FOR POWER AND DATA.
11.36 EMESIS BAG DISPENSER, OFCI.
11.37 WIPES DISPENSER, OFCI.
11.38 ANESTHESIA WORKSTATION. SEE DETAIL 13/A502A. ALSO SEE ELECTRICAL DRAWINGS FOR POWER AND DATA.
11.39 STRETCHER/BED, OFOI.
11.40 WALL MOUNTED THEMOMETER, OFCI.
11.41 EYEWEAR DISPENSER, OFCI.
11.42 CEILING MOUNTED TELEVISION AND BRACKET, OFCI. ANCHOR TO STRUCTURE/DECK ABOVE. ALSO SEE ELECTRICAL DRAWINGS FOR POWER AND DATA.
11.52 AMSCO V-PRO MAX2 HYDROGEN PEROXIDE STERILIZER. FURNISHED BY STERIS, INSTALLED BY CONTRACTOR. SEE M/E/P DRAWINGS.
11.53 AMSCO600 SERIES STEAM STERILIZER. FURNISHED BY STERIS, INSTALLED BY CONTRACTOR. SEE M/E/P DRAWINGS.
11.54 AMSCO400 SERIES SMALL STEAM STERILIZER. FURNISHED BY STERIS, INSTALLED BY CONTRACTOR. SEE M/E/P DRAWINGS.
11.56 FULLY RECESSED DEFIBRILLATOR AND CABINET. OFCI.
12.01 FURNITURE, TO BE PROVIDED AND INSTALLED BY OWNERS VENDOR (MIDWEST - MWCI). COORDINATE WITH MIDWEST FOR LOCATION OF ELECTRICAL AND DATA OUTLETS SUCH THAT THEY ARE NOT BEHIND PEDESTALS.
12.03 CEILING MOUNTED PRIVACY CURTAIN AND TRACK. SEE FINISH SCHEDULE AND PROJECT MANUAL. SEE DETAIL 12/A503A.
12.04 HEIGHT ADJUSTABLE SIT/STAND DESK. PROVIDED AND INSTALLED BY OWNERS VENDOR MIDWEST COMMERCIAL INTERIORS (MWCI). SEE ELECTRICAL DRAWINGS FOR POWER.
22.01 FLOOR MOUNTED WATER CLOSET. SEE DETAILS 1/G003 AND 1/G004 FOR MOUNTING HEIGHT, LOCATION, ETC. SEE PLUMBING DRAWINGS.
22.02 WALL MOUNTED LAVATORY (SINK). SEE DETAILS 1/G003 AND 1/G004 FOR MOUNTING HEIGHT, LOCATION, ETC. SEE PLUMBING DRAWINGS.
22.03 FLOOR MOUNTED CLINICAL SINK. SEE PLUMBING DRAWINGS.
22.04 JANITOR'S FLOOR SINK. SEE PLUMBING DRAWINGS.
22.05 FLOOR SINK. SEE PLUMBING DRAWINGS. COORDINATE EXACT LOCATION WITH STERIS EQUIPMENT.
22.06 SHOWER HEAD. SEE RELEVANT DETAILS 1/G003 AND 1/G004 FOR MOUNTING HEIGHT, LOCATION, ETC. SEE PLUMBING DRAWINGS.
22.07 FLOOR DRAIN. SEE PLUMBING DRAWINGS. SLOPE FINISHED FLOOR TOWARDS DRAIN AT 1/8" PER FOOT.
22.09 WALL MOUNTED EMERGENCY EYE WASH. SEE PLUMBING DRAWINGS.
22.12 FULLY RECESSED MEDICAL GAS ISOLATION VALVE. SEE PLUMBING DWGS.
22.13 WALL MOUNTED MED GASES. SEE PLUMBING DRAWINGS.
23.02 LOW AIR RETURN. SEE MECHANICAL DRAWINGS.
23.10 RECESSED MED GAS ALARM PANEL. SEE M/E/P DRAWINGS.
26.06 PUSH PAD/WAVE SENSOR FOR AUTOMATED DOOR ACTIVATION.SEE ELECTRICAL DRAWINGS.
26.16 CARD ACCESS. SEE ELECTRICAL DRAWINGS.
26.17 FULLY RECESSED ELECTRICAL ISOLATION PANELS. SEE ELECTRICAL DWGS.

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STATE OF UTAH
SELVAM RAJAVELU
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Sheet Name
Floor Plan Level 4

Sheet Number
A143A

Project Status
100% Construction Documents

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1 Dimension Plan - Level 4
SCALE: 1/4" = 1'-0"

KEYED NOTES

09.19 PROVIDE 6", 18 GA STUD FRAMING AT 16" O.C. WITH 5/8" THICK GYPSUM BOARD AND R-19 BATT INSULATION UNDER SLAB FOR SOUND MITIGATION AT STERILE PROCESSING AND DECONTAMINATION ROOM.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE ALL WALL TYPES TO BE TYPE "H3"

2. THE CONTRACTOR SHALL VERIFY DIMENSIONS OF AS-BUILT CONDITIONS, AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES. ALL INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS IS BASED ON FIELD OBSERVATIONS AND/OR THE ORIGINAL CONSTRUCTION DOCUMENTS OF THE FACILITY. ALL DIMENSION IN THIS FLOOR PLAN ARE FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.

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R. Selvam
STATE OF UTAH
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Sheet Name
Dimension Floor Plan Level 4

Sheet Number
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KEYED NOTES

01.09 SEE PREP/REC. BAY #5 FOR TYPICAL NOTES. CONTRACTOR TO MOCK UP ONE BAY ON SITE FOR REVIEW BEFORE MOVING FORWARD WITH ALL BAYS.
01.10 SEE PREP/RECOVERY BAY #2 FOR TYPICAL NOTES.
01.11 SEE BID ALTERNATES ON SHEET G002 FOR THE MODULAR CEILING AND THE STAINLESS STEEL WALL PANEL SYSTEM. ALSO SEE M/E/P DRAWINGS. CONTRACTOR TO MOCK UP ONE 'OR' ON SITE BEFORE MOVING FORWARD WITH THE REST OF THE OR'S.
01.12 SEE M/E/P DRAWINGS FOR LIGHTS AND DIFFUSERS IN THIS AREA.
08.07 OVERHEAD AUTOMATED ROLL DOWN SECURITY GRILL. BASIS OF DESIGN CORNELL ROLLING GRILLS, VISION AIRE, MODEL ESG10. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
09.31 GYPSUM BOARD CEILING. SEE DETAIL 5/A503A. SEE M/E/P DRAWINGS FOR LIGHTS AND DIFFUSERS.
09.32 GYPSUM BOARD SOFFIT. SEE DETAIL 9/A503A. SEE M/E/P DRAWINGS FOR LIGHTS AND DIFFUSERS.
09.33 GYPSUM BOARD HEADER. SEE DETAIL 6/A503A.
09.36 ACOUSTIC CEILING TILES AND GRIDS. CEILING TILES TO BE ARMSTRONG ULTIMA HEALTH ZONE (ITEM # 1938) 24" X 48" X 3/4" EDGE DETAIL: SQUARE LAY-IN. GRIDS SHALL BE 15/16" PRELUDE XL EXPOSED TEE HEAVY DUTY. ANGLE MOLDING SHALL BE 7/8" WITH BERC 2 CLIPS. SEE CEILING DETAILS ON SHEET A503A. SEE M/E/P DRAWINGS FOR LIGHTS AND DIFFUSERS.
09.37 ACOUSTIC CEILING TILES AND GRIDS. CEILING TILES TO BE ARMSTRONG ULTIMA HEALTH ZONE (ITEM # 1935) 24" X 24" X 3/4" EDGE DETAIL: SQUARE LAY-IN. GRIDS SHALL BE 15/16" PRELUDE XL EXPOSED TEE HEAVY DUTY. ANGLE MOLDING SHALL BE 7/8" WITH BERC 2 CLIPS. SEE CEILING DETAILS ON SHEET A503A. SEE M/E/P DRAWINGS FOR LIGHTS AND DIFFUSERS.
09.38 ACOUSTIC CEILING TILES AND GRIDS. CEILING TILES TO BE ARMSTRONG CLEAN ROOM VL UNPERFORATED (ITEM # 870) 24" X 48" X 5/8" EDGE DETAIL: SQUARE LAY-IN. GRIDS SHALL BE 15/16" ALUMINUM, GASKETED. BASIS OF DESIGN HEAVY DUTY CLEAN ROOM CEILING GRID SYSTEM BY GORDAN. ANGLE MOLDING SHALL BE 7/8" WITH BERC 2 CLIPS. SEE CEILING DETAILS ON SHEET A503A. SEE M/E/P DRAWINGS FOR LIGHTS AND DIFFUSERS.
09.39 NEW 2X2 CEILING TILES AND GRIDS TO MATCH ADJACENT EXISTING.SEE M/E/P DRAWINGS FOR LIGHTS AND DIFFUSERS.
09.40 WOOD PANEL CEILING. BASIS OF DESIGN: ARMSTRONG WOODWORKS TEGULAR. 24" X 24" X 3/4" PANELS. (ITEM #5406W5 - PERFORATED). GRIDS SHALL BE 9/16" PRELUDE XL EXPOSED TEE HEAVY DUTY. COLOR - TECH BLACK. ANGLE MOLDING SHALL BE 7/8" WITH BERC 2 CLIPS. SEE CEILING DETAILS ON SHEET A503A.
09.41 24" X 24" GASKETED GFRG ACCESS PANELS. BASIS OF DESIGN: BAUCO PLUS II ARCHITECTURAL ACCESS PANEL WITH CONCEALED HARDWARE AND GYPSUM BOARD INLAY. MODEL NUMBER 20-58-2424. COORDINATE LOCATION OF ACCESS PANELS WITH STERIS AND M/E/P.
11.42 CEILING MOUNTED TELEVISION AND BRACKET, OFCI. ANCHOR TO STRUCTURE/DECK ABOVE. ALSO SEE ELECTRICAL DRAWINGS FOR POWER AND DATA.
11.43 CEILING MOUNTED LIGHT AND MONITOR BOOM BY STERIS. SEE VENDOR DRAWINGS. ROUGH OPENING TO BE PER STERIS. SEE STRUCTURAL DRAWINGS FOR ABOVE CEILING STRUCTURAL SUPPORT SYSTEM. ALSO SEE ELECTRICAL DRAWINGS.
12.03 CEILING MOUNTED PRIVACY CURTAIN AND TRACK. SEE FINISH SCHEDULE AND PROJECT MANUAL. SEE DETAIL 12/A503A.
22.14 CEILING MOUNTED MED GASES. SEE PLUMBING DRAWINGS.
23.03 LAMINAR AIR DIFFUSER. SEE MECHANICAL DRAWINGS.
26.09 CEILING MOUNTED SECURITY CAMERA. SEE ELECTRICAL DRAWINGS.

1 Reflected Ceiling Plan - Level 4
SCALE: 1/4" = 1'-0"

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INTERMOUNTAIN HEALTHCARE CAMPUS RECONFIGURATION - ASC

1350N 500 E
Logan, UT 84341

Project Manager	TERRI SUDBROOK
Project Designer	ERIC MEUB
Project Architect	FRANK PENROSE
Landscape Architect	ARCSITIO
Civil Engineer	GREAT BASIN
Structural Engineer	REAVELEY
Mechanical Engineer	VAN BOERUM & FRANK
Electrical Engineer	SPECTRUM
Plumbing Engineer	VAN BOERUM & FRANK
Interior Designer	RUBY THORP
Equipment Planner	ROBERT GRIESCHE
Wayfinding	
Sheet Reviewer	Author

MARK	DATE	DESCRIPTION
1	11/13/20	Addendum # 01

Project Number	10173823
Original Issue	11/6/20

R. Rajavelu
STATE OF UTAH
SELVAM RAJAVELU
267857-0301
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Sheet Name
Reflected Ceiling Plan Level 4

Sheet Number
A145A

Project Status
100% Construction Documents

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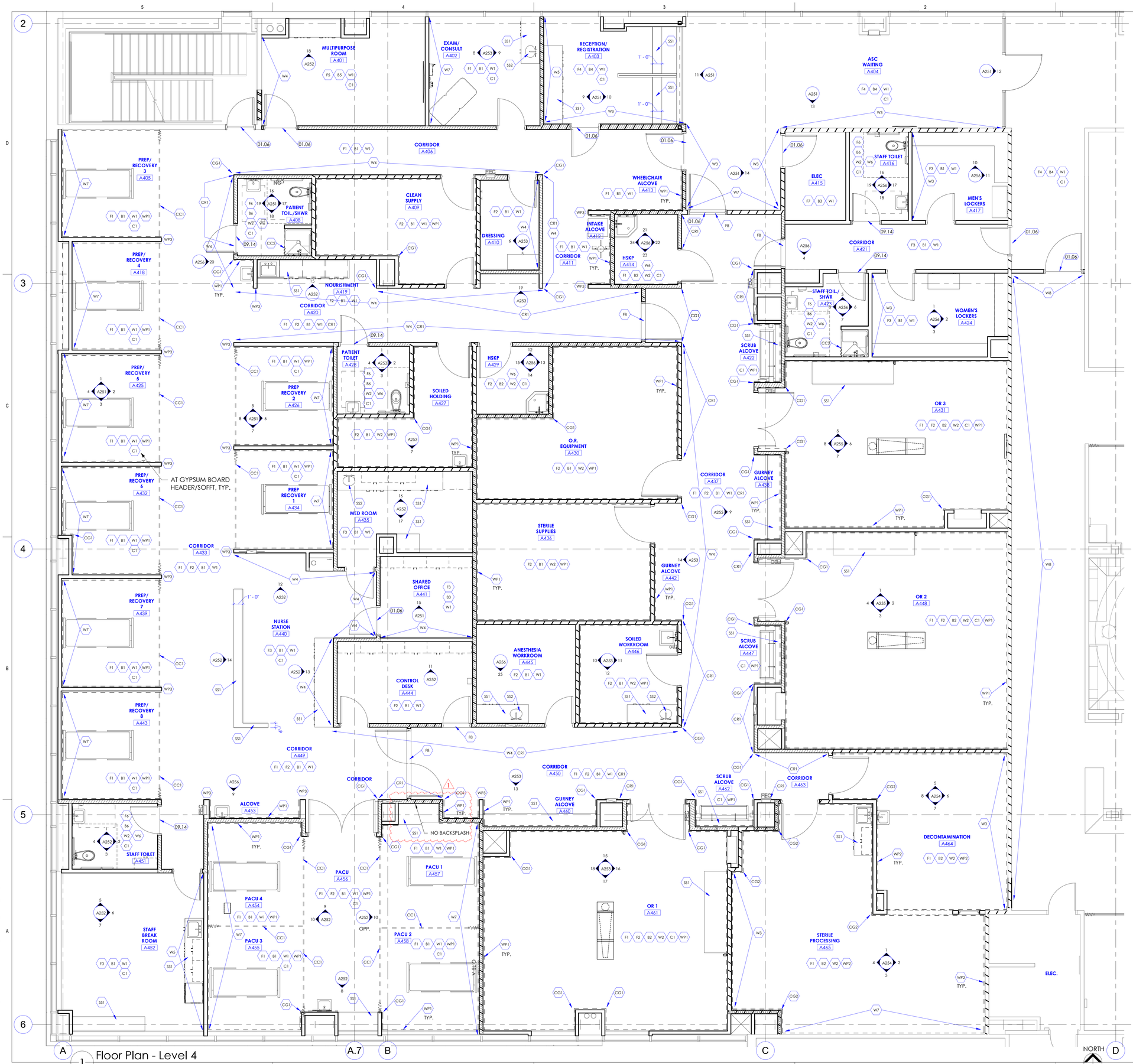

KEYED NOTES

01.06 LINE OF TRANSITION BETWEEN DIFFERENT FLOOR FINISHES. SEE DETAILS ON SHEET A603A.

09.14 SOLID SURFACE THRESHOLD AT TOILET ROOMS, TYPICAL. SEE DETAIL 1/AS06A.

GENERAL NOTES

1. SEE SHEET A148A FOR FLOOR PATTERN PLAN
2. SEE SHEET A603A FOR FINISH SCHEDULE.

1 Floor Plan - Level 4
SCALE: 1/4" = 1'-0"

TRUE NORTH

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Intermountain Healthcare

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Sheet Name
Finish Plan Level 4

Sheet Number
A147A

Project Status
100% Construction Documents

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KEYED NOTES

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R. Rajavelu
STATE OF UTAH
SELVAM RAJAVELU
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Sheet Name

Equipment Plan Level 4

Sheet Number

A149A

Project Status

100% Construction Documents

1 Floor Plan - Level 4
SCALE: 1/4" = 1'-0"

TRUE NORTH

NORTH

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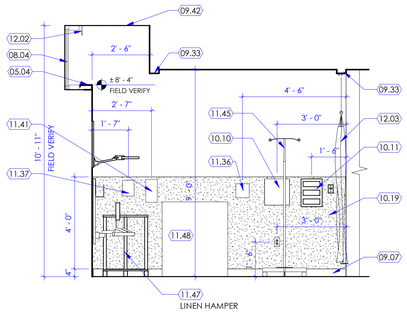

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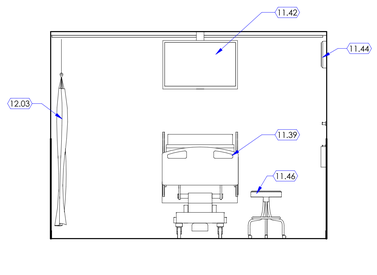

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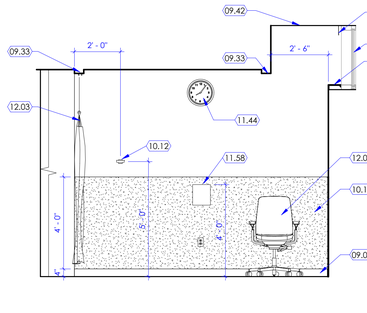

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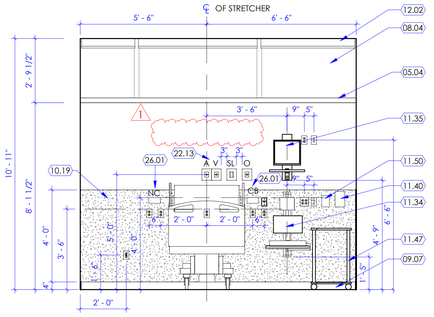

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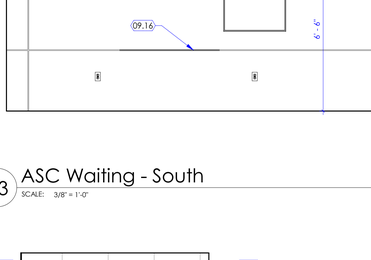

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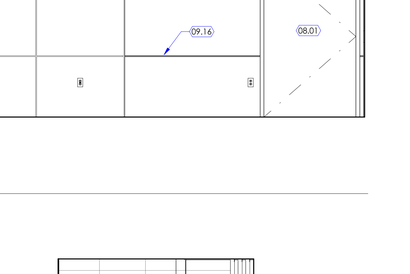

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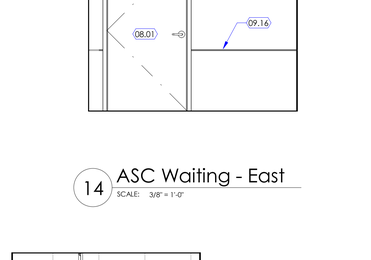

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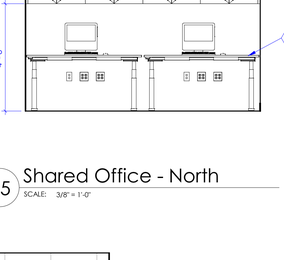

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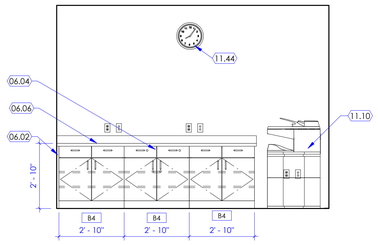

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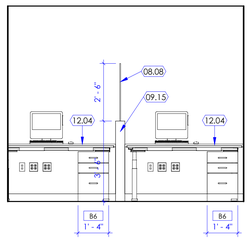

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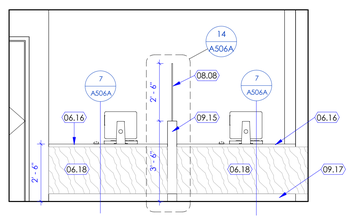

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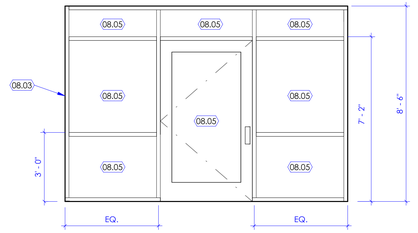

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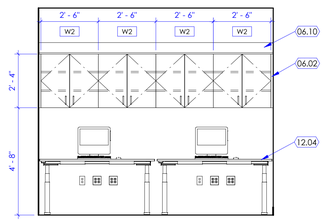
13 ASC Waiting - South
SCALE: 3/8" = 1'-0"

14 ASC Waiting - East
SCALE: 3/8" = 1'-0"



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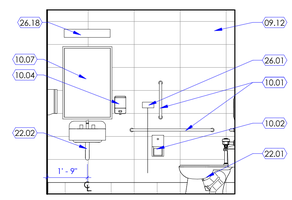

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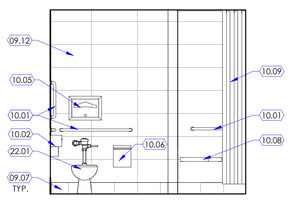

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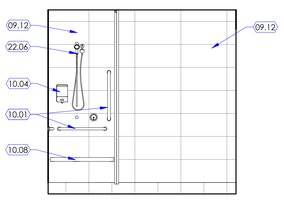

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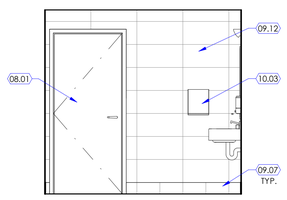

19 Pat. Toil./Shwr - West
SCALE: 3/8" = 1'-0"

KEYED NOTES

05.04 0.09 INCH THICK EXTRUDED ALUMINUM SILL EXTENDER. COLOR AND FINISH TO MATCH EXISTING WINDOW MULLION. ATTACHED TO MULLION VIA CONTINUOUS ALUMINUM 'Z' CLIP. SEE DETAIL 6/A506A. PROVIDE SLOPED SILL AT PREP/RECOVERY BAYS. SEE DETAIL 8/A506A.

06.02 PLASTIC LAMINATE WRAPPED FILLER PANEL. PROVIDE FILLER PANEL BETWEEN CABINETS AND BETWEEN CABINET AND WALL. TYPICAL. FILLER PANEL TO MATCH PROFILE AND FINISH OF ADJACENT CABINETS.

06.04 LOCK. PROVIDE KEYED LOCK FOR THIS CABINET DOOR (OR DRAWER WHERE OCCURS). PROVIDE REQUIRED HARDWARE FOR THE LOCK SYSTEM.

06.06 SOLID SURFACE COUNTER WITH FULL BULLNOSE EDGE AND INTEGRAL BACKSPLASH. SEE DETAIL 6/A505B. PROVIDE INTEGRAL SIDE SPLASH WHERE COUNTER ABUTS PERPENDICULAR WALL/CABINET.

06.10 P-LAM SLOPED DUST TOP. SEE DETAILS 1/A505B AND 2/A505B

06.16 SOLID SURFACE TRANSACTION COUNTER WITH FULL BULLNOSE EDGE. SEE FINISH SCHEDULE. SEE DETAIL 7/A506A.

06.18 3/4" THICK PLASTIC LAMINATE FACED PANEL SYSTEM. ATTACH TO GYPSUM BOARD WALL USING BROOKLYN HARDWARE. CONTINUOUS ALUMINUM PANEL CLIP SYSTEM OR APPROVED EQUAL. SEE DETAILS ON SHEET A505C.

08.01 NEW DOOR AND DOOR FRAME. SEE DOOR SCHEDULE.

08.03 ALUMINUM-FRAMED STOREFRONT SYSTEM. BASIS OF DESIGN: KAWNEER TRIFAB VERSA GLAZE 451. GLAZING TO BE 1/4" THICK, CLEAR TEMPERED, CENTER GLAZED. WITH 2" SIGHTLINES AND 4-1/2" FRAME DEPTH. FINISH: ARCHITECTURAL CLASS 1 - CLEAR ANODIZED.

08.04 EXISTING WINDOW/CURTAIN WALL TO REMAIN. PROTECT DURING CONSTRUCTION.

08.05 GLAZING SHALL BE 1/4" THICK, CLEAR AND TEMPERED.

08.08 GLAZING SHALL BE 1/2" THICK, CLEAR AND TEMPERED WITH POLISHED EDGES.

09.07 WALL BASE AS SCHEDULED. SEE FINISH FLOOR PLANS AND FINISH SCHEDULE FOR MATERIAL, SIZE, COLOR, ETC.

09.12 WALL TILE AS SCHEDULED. SEE FINISH FLOOR PLAN AND FINISH SCHEDULE FOR MATERIAL TYPE, SIZE, COLOR, ETC. INSTALL 5/8 INCH THICK CEMENT BACKER BOARD BEHIND WALL TILE.

09.15 PARTIAL HEIGHT WALL WITH GLAZING ABOVE. SEE DETAIL 14/A506A.

09.16 ALUMINUM REVEAL. 1/2" X 1/2", BETWEEN GYPSUM BOARD. PROVIDE TAPE AND JOINT COMPOUND ON GYPSUM BOARD ON EITHER SIDE OF REVEAL WITH A SMOOTH TRANSITION AND PAINT TO MATCH WALL. FIELD VERIFY HEIGHT OF EXISTING HORIZONTAL REVEALS AND MATCH ADJACENT EXISTING. VERTICAL REVEALS SHOWN ARE EXISTING TO REMAIN. PROTECT DURING CONSTRUCTION, IF DAMAGED, PATCH AND REPAIR TO MATCH EXISTING.

09.17 4" HIGH STAINLESS STEEL COVED BASE AT REGISTRATION, 18 GA, TYPE 304, COVED. BASIS OF DESIGN - INPRO.

09.33 GYPSUM BOARD HEADER. SEE DETAIL 6/A503A.

09.42 GYPSUM BOARD SOFFIT AT WINDOW. SEE DETAIL 14/A503A.

10.01 GRAB BAR. PROVIDE GRAB BARS REQUIRED FOR WATER CLOSET, SHOWER, ETC. SEE RELEVANT DETAILS 1/G003 AND 1/G004 FOR MOUNTING HEIGHT, LOCATION, ETC. PROVIDE TYPE 2' BACKING PER DETAIL 5/A502A.

10.02 TOILET PAPER DISPENSER, OFCI. SEE SHEET G003 FOR MOUNTING HEIGHT.

10.03 PAPER TOWEL DISPENSER, OFCI. . SEE SHEET G003 FOR MOUNTING HEIGHT.

10.04 SOAP DISPENSER, OFCI. , SEE SHEET G003 FOR MOUNTING HEIGHT.

10.05 TOILET SEAT COVER DISPENSER. SEE SPECIFICATIONS. SEE SHEET G003 FOR MOUNTING HEIGHT.

10.06 SANITARY NAPKIN DISPOSAL. SEE SPECIFICATIONS.

10.07 MIRROR. 2'-0" WIDE X 3'-0"HIGH, TYPICAL. SEE SPECIFICATIONS. MOUNT MIRROR SUCH THAT THE REFLECTIVE SURFACE OF MIRROR IS NO MORE THAN 40 INCHES AFF. SEE SHEET G003.

10.08 FOLD DOWN SHOWER SEAT. SEE RELEVANT DETAILS 1/G003 AND 1/G004 FOR MOUNTING HEIGHT, LOCATION, ETC. ALSO SEE DETAIL 5/A506A .

10.09 SHOWER CURTAIN WITH CEILING MOUNTED TRACK. SEE DETAIL 13/A503A.

10.10 SHARPS DISPOSAL, OFCI. SEE SHEET G003 FOR MOUNTING HEIGHT.

10.11 GLOVES DISPENSER, OFCI. SEE SHEET G003 FOR MOUNTING HEIGHT.

10.12 COAT HOOK. BASIS OF DESIGN BOBRICK B-7672 DOUBLE ROBE HOOK.

10.19 0.06 INCH THICK. WALL PROTECTION WAINSCOT. TOP OF WAINSCOT TO ALIGN WITH TOP OF CORNER GUARD WHERE OCCURS. SEE FINISH PLAN AND SCHEDULE.

11.10 PRINTER/COPIER. OFOI. SEE ELECTRICAL DRAWINGS FOR POWER AND DATA.

11.34 NURSE CHARTING STATION. SEE DETAIL 13/A502A. ALSO SEE ELECTRICAL DRAWINGS FOR POWER AND DATA.

11.35 PHYSIOLOGICAL MONITOR. SEE DETAIL 13/A502A. ALSO SEE ELECTRICAL DRAWINGS FOR POWER AND DATA.

11.36 EMESIS BAG DISPENSER, OFCI.

11.37 WIPES DISPENSER, OFCI.

11.39 STRETCHER/BED, OFOI.

11.40 WALL MOUNTED THERMOMETER, OFCI.

11.41 EYEWEAR DISPENSER, OFCI.

11.42 CEILING MOUNTED TELEVISION AND BRACKET, OFCI. ANCHOR TO STRUCTURE/DECK ABOVE. ALSO SEE ELECTRICAL DRAWINGS FOR POWER AND DATA.

11.44 WALL MOUNTED ANALOG CLOCK, OFCI.

11.45 IV STAND, OFOI.

11.46 PHYSICIAN STOOL, OFOI.

11.47 LINEN HAMPER, OFOI.

11.48 PROCEDURE CART OFOI.

11.50 WALL MOUNTED BARCODE SCANNER, OFCI. PROVIDE 'TYPE 1' BACKING PER DETAIL 5/A502A.

11.57 WALL MOUNTED PATIENT TRACKING MONITOR, OFCI. SEE ELECTRICAL DRAWINGS. PROVIDE 2'-0" W X 4'-0" H X 18 GA SHEET METAL BACKING. COORDINATE LOCATION OF OUTLETS WITH MONITOR MOUNTING BRACKET.

11.58 MAGAZINE HOLDER, OFCI.

12.01 FURNITURE, TO BE PROVIDED AND INSTALLED BY OWNERS VENDOR (MIDWEST - MWCI). COORDINATE WITH MIDWEST FOR LOCATION OF ELECTRICAL AND DATA OUTLETS SUCH THAT THEY ARE NOT BEHIND PEDESTALS.

12.02 RECESSED ROLLER WINDOW SHADE. SEE CEILING PLAN AND SPECIFICATIONS.

12.03 CEILING MOUNTED PRIVACY CURTAIN AND TRACK. SEE FINISH SCHEDULE AND PROJECT MANUAL. SEE DETAIL 12/A503A.

12.04 HEIGHT ADJUSTABLE SIT/STAND DESK. PROVIDED AND INSTALLED BY OWNERS VENDOR MIDWEST COMMERCIAL INTERIORS (MWCI). SEE ELECTRICAL DRAWINGS FOR POWER.

22.01 FLOOR MOUNTED WATER CLOSET. SEE DETAILS 1/G003 AND 1/G004 FOR MOUNTING HEIGHT, LOCATION, ETC. SEE PLUMBING DRAWINGS.

22.02 WALL MOUNTED LAVATORY (SINK). SEE DETAILS 1/G003 AND 1/G004 FOR MOUNTING HEIGHT, LOCATION, ETC. SEE PLUMBING DRAWINGS.

22.06 SHOWER HEAD. SEE RELEVANT DETAILS 1/G003 AND 1/G004 FOR MOUNTING HEIGHT, LOCATION, ETC. SEE PLUMBING DRAWINGS.

22.13 WALL MOUNTED MED GASES. SEE PLUMBING DRAWINGS.

26.01 NURSE CALL/CODE BLUE. SEE ELECTRICAL DRAWINGS.

26.18 WALL MOUNTED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

GENERAL NOTES

A. SEE SHEET G003 AND G005 FOR SYMBOLS, GENERAL NOTES AND LEGEND.
B. SEE SHEET A505A FOR CABINET LEGEND.
C. SEE SHEET A601A FOR DOOR AND WINDOW SCHEDULE.
D. SEE SHEET A603A FOR FINISH SCHEDULE AND GENERAL NOTES.

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STATE OF UTAH
SELVAM RAJAVELU
267857-0301
LICENSED ARCHITECT

Sheet Name
Interior Elevations

Sheet Number
A251

Project Status
100% Construction Documents

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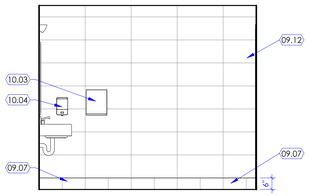

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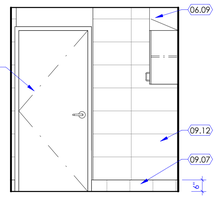

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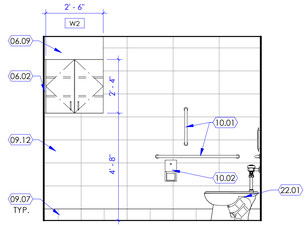

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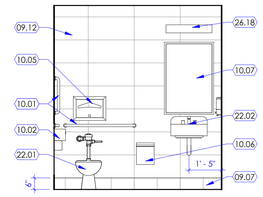
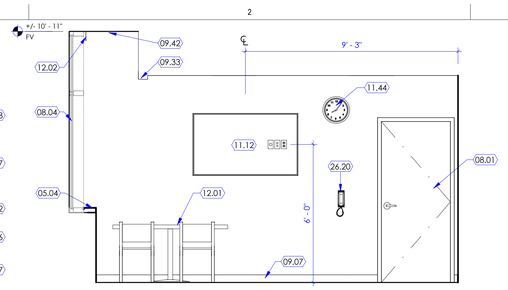
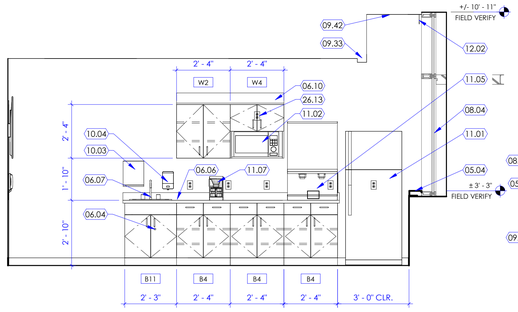


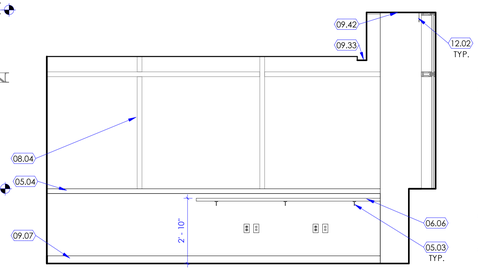
4 Staff Toilet - West
SCALE: 3/8" = 1'-0"



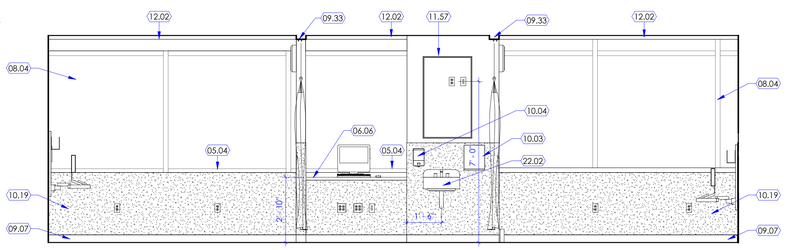
5 Staff Break Room - North
SCALE: 3/8" = 1'-0"



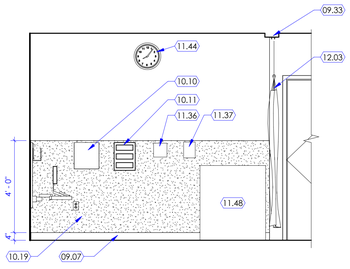
6 Staff Break Room - East
SCALE: 3/8" = 1'-0"



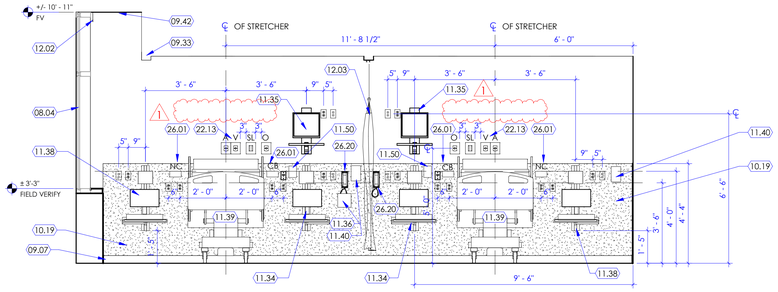
7 Staff Break Room - South
SCALE: 3/8" = 1'-0"



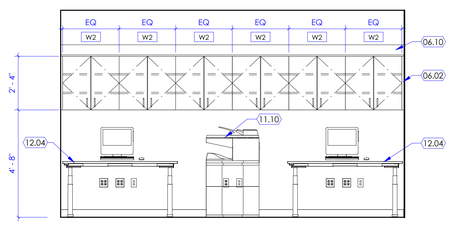
8 PACU - South
SCALE: 3/8" = 1'-0"



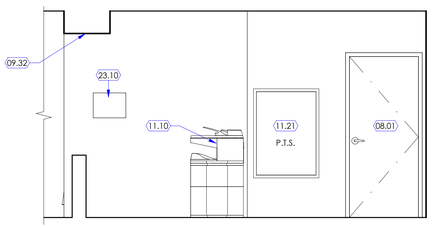
9 PACU 4 - North
SCALE: 3/8" = 1'-0"



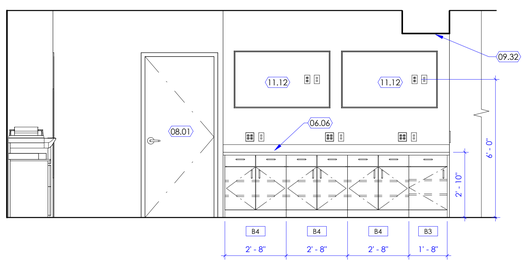
10 PACU 3 & 4 - West
SCALE: 3/8" = 1'-0"



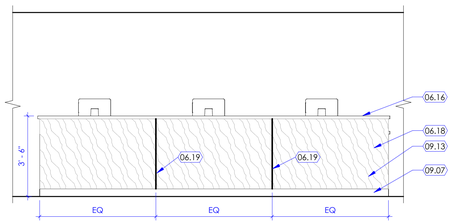
11 Control Desk - North
SCALE: 3/8" = 1'-0"



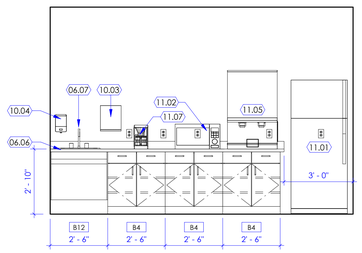
12 Nurse Station - North
SCALE: 3/8" = 1'-0"



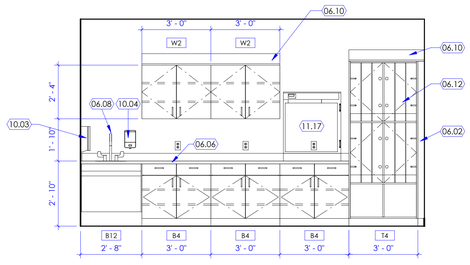
13 Nurse Station - East
SCALE: 3/8" = 1'-0"



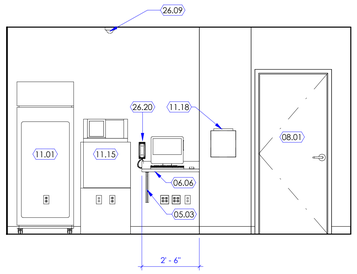
14 Nurse Station Island- East
SCALE: 3/8" = 1'-0"



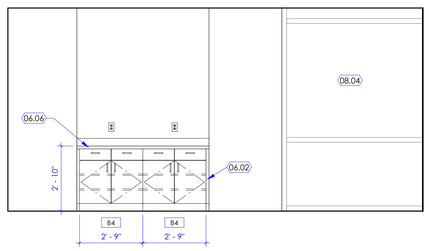
15 Nourishment - North
SCALE: 3/8" = 1'-0"



16 Med Room - North
SCALE: 3/8" = 1'-0"



17 Med Room - South
SCALE: 3/8" = 1'-0"



18 Multipurpose Room - North
SCALE: 3/8" = 1'-0"

KEYED NOTES

05.03 IN-WALL STEEL ANGLE COUNTERTOP SUPPORT AT 3'-0" (MAX) O.C. SEE DETAIL 5/A505B. PAINT TO MATCH WALL COLOR. PROVIDE 16 GA STUDS AT COUNTERTOP SUPPORT, TYPICAL.

05.04 0.09 INCH THICK EXTRUDED ALUMINUM SILL EXTENDER. COLOR AND FINISH TO MATCH EXISTING WINDOW MULLION. ATTACHED TO MULLION VIA CONTINUOUS ALUMINUM 'Z' CLIP. SEE DETAIL 6/A506A. PROVIDE SLOPED SILL AT PREP/RECOVERY BAYS. SEE DETAIL 8/A506A.

06.02 PLASTIC LAMINATE WRAPPED FILLER PANEL. PROVIDE FILLER PANEL BETWEEN CABINETS AND BETWEEN CABINET AND WALL, TYPICAL. FILLER PANEL TO MATCH PROFILE AND FINISH OF ADJACENT CABINETS.

06.04 LOCK. PROVIDE KEYED LOCK FOR THIS CABINET DOOR (OR DRAWER WHERE OCCURS). PROVIDE REQUIRED HARDWARE FOR THE LOCK SYSTEM.

06.06 SOLID SURFACE COUNTER WITH FULL BULLNOSE EDGE AND INTEGRAL BACKSPLASH. SEE DETAIL 6/A505B. PROVIDE INTEGRAL SIDE SPLASH WHERE COUNTER ABUTS PERPENDICULAR WALL/CABINET.

06.07 STAINLESS STEEL SINK. SEE PLUMBING DRAWINGS.

06.08 SOLID SURFACE INTEGRAL SINK. BASIS OF DESIGN: SAMSUNG, STARON A3181 SINK, COLOR "BRIGHT WHITE" BW010. ALSO SEE PLUMBING DWGS.

06.09 P-LAM CLOSER PANEL TO CEILING ABOVE. SEE DETAIL 2/A505B

06.10 P-LAM SLOPED DUST TOP. SEE DETAILS 1/A505B AND 2/A505B

06.12 IV CABINET. SEE DETAIL 4/A505C.

06.16 SOLID SURFACE TRANSACTION COUNTER WITH FULL BULLNOSE EDGE. SEE FINISH SCHEDULE. SEE DETAIL 7/A506A.

06.18 3/4" THICK PLASTIC LAMINATE FACED PANEL SYSTEM. ATTACH TO GYPSUM BOARD WALL USING BROOKLYN HARDWARE. CONTINUOUS ALUMINUM PANEL CLIP SYSTEM OR APPROVED EQUAL. SEE DETAILS ON SHEET A505C.

06.19 3/16" REVEAL, TYPICAL. SEE DETAIL 7/A505C.

08.01 NEW DOOR AND DOOR FRAME. SEE DOOR SCHEDULE.

08.04 EXISTING WINDOW/CURTAIN WALL TO REMAIN. PROTECT DURING CONSTRUCTION.

09.07 WALL BASE AS SCHEDULED. SEE FINISH FLOOR PLANS AND FINISH SCHEDULE FOR MATERIAL, SIZE, COLOR, ETC.

09.12 WALL TILE AS SCHEDULED. SEE FINISH FLOOR PLAN AND FINISH SCHEDULE FOR MATERIAL TYPE, SIZE, COLOR, ETC. INSTALL 5/8 INCH THICK CEMENT BACKER BOARD BEHIND WALL TILE.

09.13 PARTIAL HEIGHT WALL WITH SOLID SURFACE TRANSACTION TOP. SEE WALL TYPES AND FINISH SCHEDULE.

09.32 GYPSUM BOARD SOFFIT. SEE DETAIL 9/A503A. SEE M/E/P DRAWINGS FOR LIGHTS AND DIFFUSERS.

09.33 GYPSUM BOARD HEADER. SEE DETAIL 6/A503A.

09.42 GYPSUM BOARD SOFFIT AT WINDOW. SEE DETAIL 14/A503A.

10.01 GRAB BAR. PROVIDE GRAB BARS REQUIRED FOR WATER CLOSET, SHOWER, ETC. SEE RELEVANT DETAILS 1/G003 AND 1/G004 FOR MOUNTING HEIGHT, LOCATION, ETC. PROVIDE TYPE 2' BACKING PER DETAIL 5/A502A.

10.02 TOILET PAPER DISPENSER, OFCI. SEE SHEET G003 FOR MOUNTING HEIGHT.

10.03 PAPER TOWEL DISPENSER, OFCI. . SEE SHEET G003 FOR MOUNTING HEIGHT.

10.04 SOAP DISPENSER, OFCI. , SEE SHEET G003 FOR MOUNTING HEIGHT.

10.05 TOILET SEAT COVER DISPENSER. SEE SPECIFICATIONS. SEE SHEET G003 FOR MOUNTING HEIGHT.

10.06 SANITARY NAPKIN DISPOSAL. SEE SPECIFICATIONS.

10.07 MIRROR, 2'-0" WIDE X 3'-0"HIGH, TYPICAL. SEE SPECIFICATIONS. MOUNT MIRROR SUCH THAT THE REFLECTIVE SURFACE OF MIRROR IS NO MORE THAN 40 INCHES AFF. SEE SHEET G003.

10.10 SHARPS DISPOSAL, OFCI. SEE SHEET G003 FOR MOUNTING HEIGHT.

10.11 GLOVES DISPENSER, OFCI. SEE SHEET G003 FOR MOUNTING HEIGHT.

10.19 0.06 INCH THICK. WALL PROTECTION WAINSCOT. TOP OF WAINSCOT TO ALIGN WITH TOP OF CORNER GUARD WHERE OCCURS. SEE FINISH PLAN AND SCHEDULE.

11.01 REFRIGERATOR, OFCI. SEE ELECTRICAL DRAWINGS.

11.02 MICROWAVE, OFCI. SEE ELECTRICAL DRAWINGS. FOR MICROWAVE IN WALL CABINET PROVIDE OUTLET IN THE CABINET ABOVE WITH A GROMMET OPENING AT THE BASE OF THIS CABINET.

11.05 ICE AND WATER DISPENSER. OWNER FURNISHED CONTRACTOR INSTALLED. SEE PLUMBING DRAWINGS. CAREFULLY CUT AROUND BACKSPLASH BEHIND TO ACCOMMODATE FOR WASHER BOX. BOTTOM OF WALL BOX TO BE ONE INCH ABOVE COUNTERTOP. ALSO SEE ELECTRICAL DRAWINGS FOR POWER.

11.07 COFFEE POT. OFCI. COFFEE POT TO BE PLUMBED. SEE PLUMBING DRAWINGS. ALSO SEE ELECTRICAL DRAWINGS.

11.10 PRINTER/COPIER, OFCI. SEE ELECTRICAL DRAWINGS FOR POWER AND DATA.

11.12 WALL MOUNTED MONITOR/TELEVISION OFCI. SEE ELECTRICAL DRAWINGS. PROVIDE 3'-0" W X 2'-0" H X 18 GA SHEET METAL BACKING. COORDINATE LOCATION OF OUTLETS WITH MONITOR MOUNTING BRACKET.

11.15 AUTOMATED MEDICATION DISPENSER/OMNICELL. OFCI. SEE ELECTRICAL DRAWINGS FOR POWER AND DATA. PROVIDE A CCTV CAMERA ABOVE OMNICELL. SEE CEILING PLAN AND ELECTRICAL DRAWINGS.

11.17 COUNTER MOUNTED WARMING CABINET, OFCI.

11.18 WASTE DISPOSAL, WALL MOUNTED, OFCI.

11.21 PNEUMATIC TUBE STATION (PTS), PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. CONTRACTOR TO USE SWISSLOG AS THE SUB-CONTRACTOR FOR PTS. (INTERMOUNTAIN HEALTHCARE STANDARD). CONTRACTOR TO FRAME AND FINISH AROUND PTS. ALSO SEE ELECTRICAL DRAWINGS FOR POWER AND DATA REQUIREMENTS. COORDINATE SIZE AND LOCATION OF REQUIRED CORE DRILLS WITH SWISSLOG AND DEPARTMENT/AREA BELOW.

11.34 NURSE CHARTING STATION. SEE DETAIL 13/A502A. ALSO SEE ELECTRICAL DRAWINGS FOR POWER AND DATA.

11.35 PHYSIOLOGICAL MONITOR. SEE DETAIL 13/A502A. ALSO SEE ELECTRICAL DRAWINGS FOR POWER AND DATA.

11.36 EMESIS BAG DISPENSER, OFCI.

11.37 WIPES DISPENSER, OFCI.

11.38 ANESTHESIA WORKSTATION. SEE DETAIL 13/A502A. ALSO SEE ELECTRICAL DRAWINGS FOR POWER AND DATA.

11.39 STRETCHER/BED, OFOI.

11.40 WALL MOUNTED THEMOMETER, OFCI.

11.44 WALL MOUNTED ANALOG CLOCK, OFCI.

11.48 PROCEDURE CART OFOI.

11.50 WALL MOUNTED BARCODE SCANNER, OFCI. PROVIDE TYPE 1' BACKING PER DETAIL 5/A502A.

11.57 WALL MOUNTED PATIENT TRACKING MONITOR, OFCI. SEE ELECTRICAL DRAWINGS. PROVIDE 2'-0" W X 4'-0" H X 18 GA SHEET METAL BACKING. COORDINATE LOCATION OF OUTLETS WITH MONITOR MOUNTING BRACKET.

12.01 FURNITURE, TO BE PROVIDED AND INSTALLED BY OWNERS VENDOR (MIDWEST - MWCI). COORDINATE WITH MIDWEST FOR LOCATION OF ELECTRICAL AND DATA OUTLETS SUCH THAT THEY ARE NOT BEHIND PEDESTALS.

12.02 RECESSED ROLLER WINDOW SHADE. SEE CEILING PLAN AND SPECIFICATIONS.

12.03 CEILING MOUNTED PRIVACY CURTAIN AND TRACK. SEE FINISH SCHEDULE AND PROJECT MANUAL. SEE DETAIL 12/A503A.

12.04 HEIGHT ADJUSTABLE SIT/STAND DESK. PROVIDED AND INSTALLED BY OWNERS VENDOR MIDWEST COMMERCIAL INTERIORS (MWCI). SEE ELECTRICAL DRAWINGS FOR POWER.

22.01 FLOOR MOUNTED WATER CLOSET. SEE DETAILS 1/G003 AND 1/G004 FOR MOUNTING HEIGHT, LOCATION, ETC. SEE PLUMBING DRAWINGS.

22.02 WALL MOUNTED LAVATORY (SINK). SEE DETAILS 1/G003 AND 1/G004 FOR MOUNTING HEIGHT, LOCATION, ETC. SEE PLUMBING DRAWINGS.

22.13 WALL MOUNTED MED GASES. SEE PLUMBING DRAWINGS.

23.10 RECESSED MED GAS ALARM PANEL. SEE M/E/P DRAWINGS.

26.01 NURSE CALL/CODE BLUE. SEE ELECTRICAL DRAWINGS.

26.09 CEILING MOUNTED SECURITY CAMERA. SEE ELECTRICAL DRAWINGS.

26.13 POWER RECEPTACLE FOR MICROWAVE IN CABINET ABOVE. PROVIDE GROMMET AS NEEDED.

26.18 WALL MOUNTED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

26.20 WALL MOUNTED PHONE. SEE ELECTRICAL DRAWINGS.

GENERAL NOTES

A. SEE SHEET G003 AND G005 FOR SYMBOLS, GENERAL NOTES AND LEGEND.
B. SEE SHEET A505A FOR CABINET LEGEND.
C. SEE SHEET A601A FOR DOOR AND WINDOW SCHEDULE.
D. SEE SHEET A603A FOR FINISH SCHEDULE AND GENERAL NOTES.

HDR

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INTERMOUNTAIN HEALTHCARE CAMPUS RECONFIGURATION - ASC

1350N 500 E
Logan, UT 84341

Intermountain Healthcare

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Landscape Architect	ARCSITIO
Civil Engineer	GREAT BASIN
Structural Engineer	REAVELEY
Mechanical Engineer	VAN BOERUM & FRANK
Electrical Engineer	SPECTRUM
Plumbing Engineer	VAN BOERUM & FRANK
Interior Designer	RUBY THORP
Equipment Planner	ROBERT GRIESCHE
Wayfinding	
Sheet Reviewer	Author

MARK	DATE	DESCRIPTION
1	11/13/20	Addendum # 01

Project Number	10173823
Original Issue	11/6/20

STATE OF UTAH
SELVAM RAJAVELU
267857-0301
LICENSED ARCHITECT

Sheet Name
Interior Elevations

Sheet Number
A252

Project Status
100% Construction Documents

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VBFA

ADDENDUM #1

DATE: November 13, 2020

PROJECT NO: 19296

PROJECT: Logan Regional Hospital - ASC

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 – 21, 22, 23

GENERAL

1.

DRAWINGS

SHEET - M141A – MECHANICAL DEMOLITION PLAN – LEVEL 4

1. Keyed note #14 has been added to this sheet.
2. Existing VAV box VR-A4-8 is now shown being removed and salvaged for reinstallation.

SHEET - M143A – MECHANICAL NEW PLAN – LEVEL 4

1. The exhaust ductwork in Sterile Processing A465 has been modified to provide more room for the airflow measuring station.
2. The exhaust ductwork in Decontamination A464 has been modified to provide more room for the airflow measuring station.
3. The required maximum airflow from the two existing grilles connected to VAV box VR-A4-8 is now shown in Elec. A419.

SHEET - M146A – MECHANICAL ROOF PLAN

1. The automatic control valves on the heating hot water side of the steam-to-hot water heat exchanger are now shown.
2. The required steam traps are now shown and called out on this plan.
3. Exhaust fan EF-5 has been moved approximately 14 feet to the northeast of its previously shown location.
4. Exhaust fan EF-1 has been moved approximately 8 feet to the east of its previously shown location.

SHEET - M241A – MECHANICAL PIPING DEMOLITION PLAN – LEVEL 4

1. Keyed note #8 has been added to this sheet.
2. Existing VAV box VR-A4-8 is now shown being removed and salvaged for reinstallation.

SHEET - M243A – MECHANICAL PIPING NEW PLAN – LEVEL 4

1. The required steam traps are now shown and called out on this plan.

SHEET - M501 – MECHANICAL DETAILS

1. Detail #3 has been removed and replaced with a new single sterilizer steam fitting detail.
2. A washer steam fitting detail has been added to this sheet as detail #13.

SHEET - M603 – MECHANICAL SCHEDULES

1. The motive pressure has been updated on the automatic pump trap schedule.

SHEET - M604 – MECHANICAL SCHEDULES

1. This sheet has been added to the mechanical drawings.
2. The steam filter, steam separator, steam trap, and steam pressure-reducing valves schedules have all been added to this sheet.

SHEET - M702 – MECHANICAL SCHEMATICS

1. The steam-to-hot water heat exchanger schematic on this sheet has been updated to more correctly show the piping. Two control valves have been added to the heating hot water piping on the supply out of the heat exchanger to match the detail on sheet M703.
2. The ASC steam distribution schematic on this sheet has been updated to show all of the required steam taps, pressure reducing valves, steam filters, and moisture separators.

SHEET - M703 – MECHANICAL SCHEMATICS

1. A pressure reducing valve has been added to the legend of details on this sheet.
2. A redundant shut-off valve has been removed from the condensate return piping on the steam-to-hot water heat exchanger detail.

SHEET - P103A

1. The DI water pipe size has been changed to 1-1/4”.

SHEET - P141A

1. Keyed note 4 has been changed on this sheet.

SHEET - P143A

1. The condensate piping from Stair #2 has been modified to connect to the roof drain piping as shown.
2. The water hammer arrestor has been adjusted to be downstream of the isolation valves serving Patient Toile/Shower.
3. The hot water piping has been modified to the lavatories on this sheet.
4. Isolation valves have been added to the domestic hot, cold and recirculation lines on this sheet.

SHEET - P243A

1. Medical gas sensors have been move to OR 2 on this sheet.
2. Medical gas sensors have been added to OR 3 and a medical gas alarm panel has been added for these sensors on this sheet.
3. Keyed note #3 has been added to this sheet.

SHEET - P501

1. The DI water pipe size has been changed to 1-1/4”.
2. The flow for pumps P-1 and P-2 has been changed to 20 GPM.
3. Detail 1 has been removed from this sheet.

SHEET - P601

1. The DI Water Pump Schedule has been modified.
2. The manufacturer listed on the Pure Water System Schedule has been changed to Water Specialties.

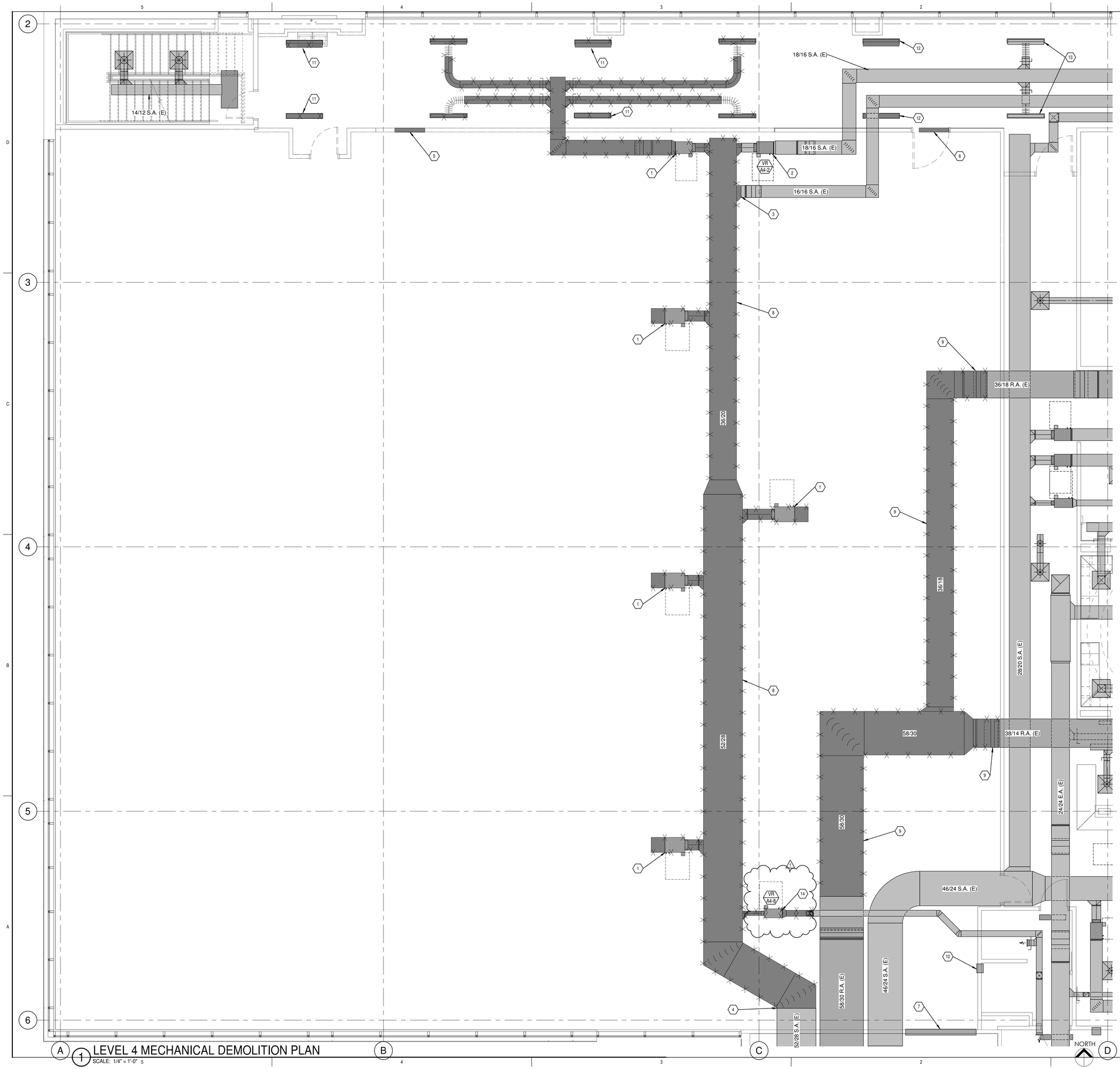
SHEET - P602

1. The MA-5 alarm panel has been added to the Medical Gas Alarm Panel Schedule.
2. The Medical Gas Outlet Schedule has been modified to clarify the type of connection for the ceiling mounted gas connections.

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.

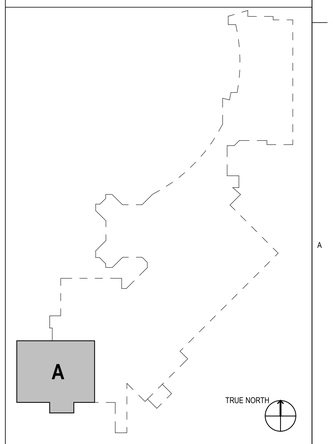
Item	Manufacturer	Comments
DI-1 Pure Water System	Water Specialties	Approved



1 LEVEL 4 MECHANICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

SHEET KEYNOTES

1. THIS EXISTING VAV BOX IS TO BE REMOVED. DEMOLISH THE ASSOCIATED SUPPLY AIR DUCTWORK BACK TO THE APPROXIMATE LOCATION SHOWN.
2. THIS EXISTING VAV BOX IS TO REMAIN IN SERVICE. PROTECT FROM DAMAGE. DISCONNECT THE INLET DUCTWORK FROM THE EXISTING SUPPLY AIR MAIN IN THE APPROXIMATE LOCATION SHOWN. MODIFY THE LOCATION OF THE VAV BOX AND/OR IT'S CONNECTING DUCTWORK & PIPING TO PROVIDE THE REQUIRED MAINTENANCE ACCESS. COORDINATE THE VAV BOX LOCATION WITH THE NEW FLOOR PLAN. CAREFULLY COORDINATE ANY AIR HANDLER SHUTDOWN WITH THE OWNER AND HOSPITAL PERSONNEL. FIELD VERIFY THE EXTENT OF WORK.
3. THIS EXISTING DUCTWORK IS TO BE DISCONNECTED FROM THE EXISTING SUPPLY AIR MAIN IN THE APPROXIMATE LOCATION SHOWN. CAREFULLY COORDINATE ANY AIR HANDLER SHUTDOWN WITH THE OWNER AND HOSPITAL PERSONNEL. FIELD VERIFY THE EXTENT OF WORK.
4. DEMOLISH THE EXISTING SUPPLY AIR MAIN BACK TO THIS APPROXIMATE LOCATION AND PREPARE FOR FUTURE CONNECTION. CAREFULLY COORDINATE ANY AIR HANDLER SHUTDOWN WITH THE OWNER AND HOSPITAL PERSONNEL. FIELD VERIFY THE EXTENT OF WORK.
5. THIS EXISTING TRANSFER AIR DUCT & ASSOCIATED FIRE DAMPER ARE TO BE REMOVED.
6. THIS EXISTING TRANSFER AIR DUCT & ASSOCIATED FIRE DAMPER ARE TO BE REMOVED. THE WALL IS TO BE PATCHED AND REPAIRED TO MATCH THE EXISTING & NEW CONSTRUCTION IN THIS AREA.
7. THIS EXISTING TRANSFER AIR DUCT & ASSOCIATED COMBINATION FIRE/SMOKE DAMPER ARE TO REMAIN IN SERVICE. PROTECT FROM DAMAGE.
8. THIS EXISTING SUPPLY AIR DUCTWORK MAIN IS TO BE REMOVED IN THE APPROXIMATE LOCATIONS SHOWN. CAREFULLY COORDINATE ANY AIR HANDLER SHUTDOWN WITH THE OWNER AND HOSPITAL PERSONNEL. FIELD VERIFY THE EXTENT OF WORK.
9. THIS EXISTING RETURN AIR DUCTWORK MAIN IS TO BE REMOVED AND SALVAGED IN THE APPROXIMATE LOCATIONS SHOWN. PROTECT FROM DAMAGE. CAREFULLY COORDINATE ANY AIR HANDLER SHUTDOWN WITH THE OWNER AND HOSPITAL PERSONNEL. FIELD VERIFY THE EXTENT OF WORK.
10. THIS EXISTING TRANSFER AIR GRILLE IS TO REMAIN IN SERVICE. PROTECT FROM DAMAGE.
11. THIS EXISTING LINEAR RETURN AIR GRILLE IS TO BE REMOVED AND DISCARDED.
12. THIS EXISTING LINEAR RETURN AIR GRILLE IS TO BE REMOVED AND SALVAGED FOR REUSE. PROTECT FROM DAMAGE.
13. THE TWO EXISTING LINEAR RETURN AIR GRILLES LOCATED TO THE EAST OF THESE EXISTING LINEAR SUPPLY DIFFUSERS ARE TO BE REMOVED AND SALVAGED FOR REUSE. PROTECT FROM DAMAGE.
14. REMOVE AND RELOCATE EXISTING VAV BOX. SEE NEW MECHANICAL PLAN FOR NEW LOCATION. (1)



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1350N 500 E
Logan, UT 84341

Intermountain Healthcare

Project Manager	TERRI SUDBROOK
Project Designer	ERIC MEUB
Project Architect	FRANK PENROSE
Landscape Architect	ARCSITIO
Civil Engineer	GREAT BASIN
Structural Engineer	REAVELEY
Mechanical Engineer	VAN BOERUM & FRANK
Electrical Engineer	SPECTRUM
Plumbing Engineer	VAN BOERUM & FRANK
Interior Designer	RUBY THORP
Equipment Planner	ROBERT GRIESCHE
Wayfinding	
Sheet Reviewer	KJM

MARK	DATE	DESCRIPTION
1	11/13/20	Addendum #1

Project Number	10173823
Original Issue	11/6/20

PROFESSIONAL ENGINEER
SCOT E. MUIR
8055925-2202
STATE OF UTAH

Sheet Name

MECHANICAL DEMOLITION PLAN - LEVEL 4

Sheet Number

M141A

Project Status

100% Construction Documents- Permit Set

SHEET KEYNOTES

1. INSTALL THIS SIDE WALL RETURN GRILLE SO THE BOTTOM OF THE GRILLE IS 6" ABOVE THE FINISHED FLOOR. PROVIDE ELECTRONIC TYPE REMOTE DAMPER OPERATORS FOR THE HIGH EFFICIENCY TAKE-OFF DAMPER ASSOCIATED WITH THIS GRILLE THAT ARE TERMINATED NEAR A CEILING ACCESS DOOR IN THIS ROOM. CLEARLY LABEL EACH REMOTE DAMPER OPERATOR SO IT CAN EASILY BE KNOWN WHICH OPERATOR CONTROLS WHICH GRILLE.
2. THIS IS A COOLING-ONLY VAV BOX. NO REHEAT COIL OR HEATING HOT WATER CONNECTIONS ARE REQUIRED.
3. CAREFULLY COORDINATE THIS DUCTWORK PENETRATION UP THROUGH THE ROOF AND CONNECT TO THE NEW AIR HANDLER ABOVE. PROVIDE A COMBINATION FIRE & SMOKE DAMPER IN THE DUCTWORK WHERE IT PENETRATES THE ROOF.
4. REUSE AS MUCH OF THE SALVAGED RETURN AIR DUCTWORK AS POSSIBLE WHEN INSTALLING THIS DUCTWORK. FIELD VERIFY THE EXTENT OF WORK.
5. INSTALL A NEW TRANSFER AIR DUCT IN THE WALL ABOVE THE CEILING IN THIS LOCATION.
6. INTERCONNECT THIS VAV BOX WITH EXHAUST FAN EF-6 TO MAINTAIN THE POSITIVE PRESSURE OFFSET AIRFLOW AS DESCRIBED ON SHEET M701. AS THE AIRFLOW THROUGH THE VAV BOX CHANGES, THE AIRFLOW THROUGH EXHAUST FAN EF-6 IS TO ALSO CHANGE ACCORDINGLY.
7. STUB THIS SUPPLY DUCTWORK THROUGH THE WALL AND LEAVE OPEN TO PROVIDE SUPPLY AIRFLOW TO THE SHELLED O.R. SPACE.
8. REINSTALL THE FOUR SALVAGED LINEAR RETURN AIR GRILLES IN THE CEILING BETWEEN THE REMAINING TWO SETS OF LINEAR SUPPLY DIFFUSERS IN THE HALLWAY. PROVIDE EQUAL SPACING BETWEEN THE SUPPLY DIFFUSERS AND THE REINSTALLED RETURN GRILLES. PATCH AND REPAIR THE CEILING AS REQUIRED TO MATCH THE EXISTING CONDITIONS. FIELD VERIFY THE EXTENT OF WORK.
9. THESE TWO SUPPLY DIFFUSERS AND THE COVERS ON THE CONCEALED FIRE SPRINKLERS IN THIS AREA ARE TO BE PAINTED TO MATCH THE WOOD CEILING.
10. THE CONTRACTOR IS TO SEAL ALL OPENINGS IN AND ABOVE THE CEILING OF THIS ROOM AIR TIGHT. THE CEILING TILES IN THIS ROOM ARE TO HAVE GASKETS ON THEM TO HELP PROVIDE AN AIR-TIGHT CEILING. THE CONTRACTOR IS TO PERFORM A BLOWER DOOR TEST IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON SHEET M701 TO PROVE THE ROOM HAS BEEN PROPERLY SEALED. THE CONTRACTOR IS TO PROVIDE A WRITTEN REPORT OF THE BLOWER DOOR TEST OUTCOME TO THE OWNER, ARCHITECT, & ENGINEER.
11. THE BALANCING DAMPERS ON THE HIGH EFFICIENCY TAKE-OFFS IN THE OPERATING ROOMS ARE TO INCLUDE ELECTRONIC TYPE REMOTE DAMPER OPERATORS THAT ARE TERMINATED NEAR A CEILING ACCESS DOOR IN THAT ROOM. CLEARLY LABEL EACH REMOTE DAMPER OPERATOR SO IT CAN EASILY BE KNOWN WHICH OPERATOR CONTROLS WHICH DIFFUSER. TYPICAL FOR ALL HIGH EFFICIENCY TAKE-OFFS ABOVE OPERATING ROOM CEILINGS.
12. INSTALL DIFFERENTIAL PRESSURE SENSOR TO CONTROL MOTORIZED ATC DAMPER IN RETURN DUCT. SEE SECTION 230993-4 FOR RETURN DUCT CONTROL DAMPER SEQUENCE.
13. DUCT STATIC PRESSURE SENSOR FOR AHU CONTROL.
14. AIRFLOWMEASURING STATION TO MONITOR AND CONTROL EXHAUST FAN. PROVIDE EBTRON GTX116-P+ AND PROVIDE 2 DUCT DIAMETERS UPSTREAM/DOWNSTREAM (MINIMUM) OF STRAIGHT DUCT. SEE SEQUENCE OF OPERATIONS 230993-7 FOR MORE INFORMATION.
15. RELOCATED VAV BOX. EXISTING BOX IS COOLING ONLY. BALANCE TO AIRFLOW NOTED.

GENERAL NOTES

1. DUCT LINER RESTRICTIONS: (REFER TO 233113-3.10-G)
   DUCT LINER EXPOSED TO AIR MOVEMENT SHALL NOT BE USED IN SUPPLY DUCTS SERVING THE FOLLOWING AREAS:
   A. OR1 A461
   B. OR 2 A448
   C. OR 3 A431
   D. STERILE PROCESSING A465

LEVEL 4 MECHANICAL PLAN - AREA B
SCALE: 1/4" = 1'-0"

HDR

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INTERMOUNTAIN HEALTHCARE CAMPUS RECONFIGURATION - ASC

1350N 500 E
Logan, UT 84341

Intermountain Healthcare

Project Manager	TERRI SUDBROOK
Project Designer	ERIC MEUB
Project Architect	FRANK PENROSE
Landscape Architect	ARCSITIO
Civil Engineer	GREAT BASIN
Structural Engineer	REAVELEY
Mechanical Engineer	VAN BOERUM & FRANK
Electrical Engineer	SPECTRUM
Plumbing Engineer	VAN BOERUM & FRANK
Interior Designer	RUBY THORP
Equipment Planner	ROBERT GRIESCHE
Wayfinding	
Sheet Reviewer	KJM

MARK	DATE	DESCRIPTION
1	11/13/20	Addendum #1

Project Number	10173823
Original Issue	11/6/20

PROFESSIONAL ENGINEER
SCOTT E. MUIR
8055925-2202
STATE OF UTAH

Sheet Name
MECHANICAL NEW PLAN - LEVEL 4

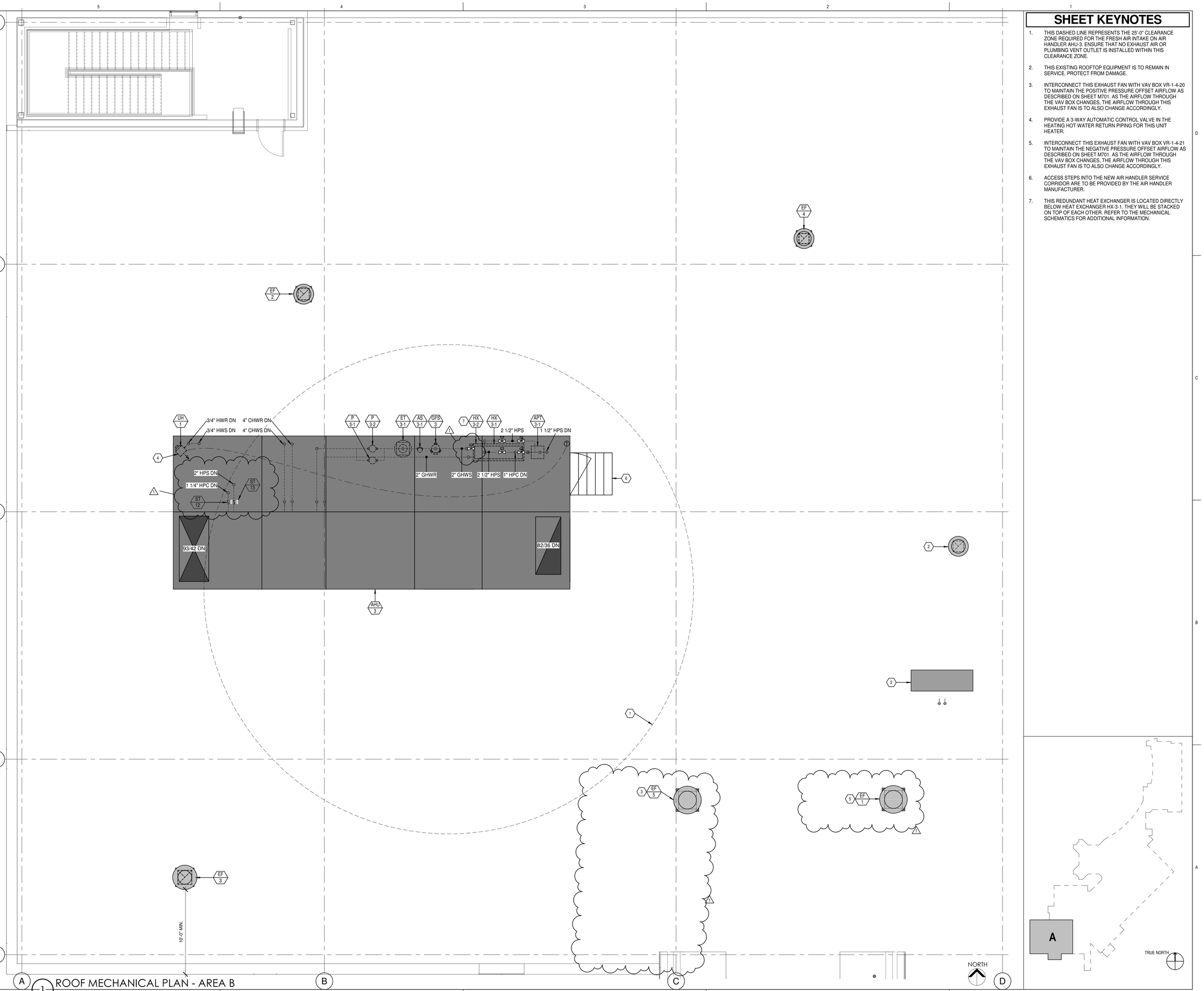
Sheet Number
M143A

Project Status
100% Construction Documents- Permit Set

TRUE NORTH

SHEET KEYNOTES

1. THIS DASHED LINE REPRESENTS THE 25'-0" CLEARANCE ZONE REQUIRED FOR THE FRESH AIR INTAKE ON AIR HANDLER AHU-3. ENSURE THAT NO EXHAUST AIR OR PLUMBING VENT OUTLET IS INSTALLED WITHIN THIS CLEARANCE ZONE.
2. THIS EXISTING ROOFTOP EQUIPMENT IS TO REMAIN IN SERVICE. PROTECT FROM DAMAGE.
3. INTERCONNECT THIS EXHAUST FAN WITH VAV BOX VR-1-4-20 TO MAINTAIN THE POSITIVE PRESSURE OFFSET AIRFLOW AS DESCRIBED ON SHEET M701. AS THE AIRFLOW THROUGH THE VAV BOX CHANGES, THE AIRFLOW THROUGH THIS EXHAUST FAN IS TO ALSO CHANGE ACCORDINGLY.
4. PROVIDE A 3-WAY AUTOMATIC CONTROL VALVE IN THE HEATING HOT WATER RETURN PIPING FOR THIS UNIT HEATER.
5. INTERCONNECT THIS EXHAUST FAN WITH VAV BOX VR-1-4-21 TO MAINTAIN THE NEGATIVE PRESSURE OFFSET AIRFLOW AS DESCRIBED ON SHEET M701. AS THE AIRFLOW THROUGH THE VAV BOX CHANGES, THE AIRFLOW THROUGH THIS EXHAUST FAN IS TO ALSO CHANGE ACCORDINGLY.
6. ACCESS STEPS INTO THE NEW AIR HANDLER SERVICE CORRIDOR ARE TO BE PROVIDED BY THE AIR HANDLER MANUFACTURER.
7. THIS REDUNDANT HEAT EXCHANGER IS LOCATED DIRECTLY BELOW HEAT EXCHANGER HX-3-1. THEY WILL BE STACKED ON TOP OF EACH OTHER. REFER TO THE MECHANICAL SCHEMATICS FOR ADDITIONAL INFORMATION.



1 ROOF MECHANICAL PLAN - AREA B
SCALE: 1/4" = 1'-0"

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PROFESSIONAL ENGINEER
SCOT E. MUIR
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STATE OF UTAH

Sheet Name
MECHANICAL ROOF PLAN

Sheet Number
M146A

Project Status
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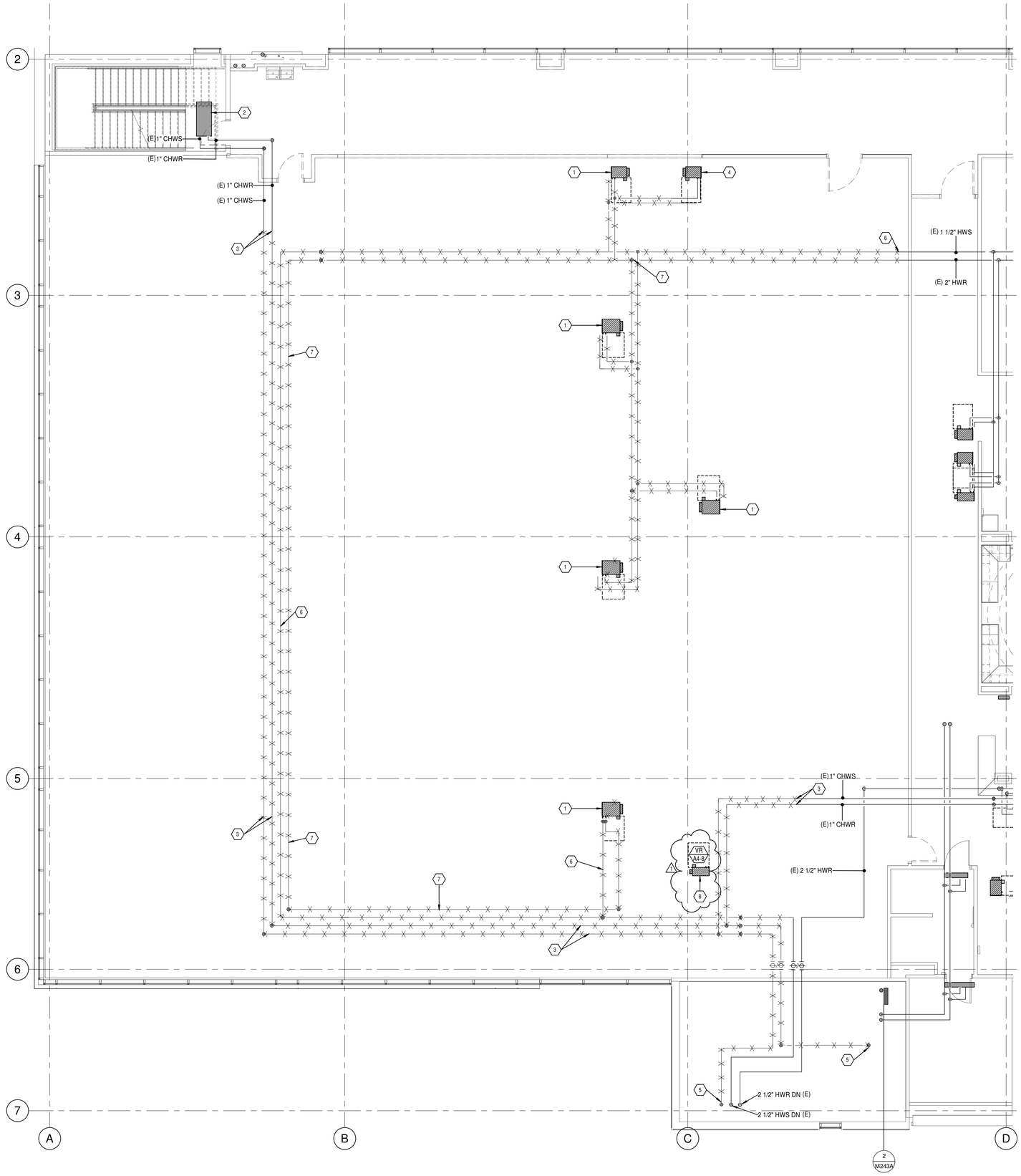

1 LEVEL 4 MECHANICAL PIPING DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

NORTH

SHEET KEYNOTES

1. THIS EXISTING VAV BOX IS TO BE REMOVED. DEMOLISH THE ASSOCIATED HEATING HOT WATER SUPPLY & RETURN PIPING BACK TO THE APPROXIMATE LOCATION SHOWN AND CAP.
2. THIS EXISTING COOLING FAN COIL IS TO REMAIN IN SERVICE. PROTECT FROM DAMAGE. DEMOLISH THE ASSOCIATED CHILLED WATER SUPPLY & RETURN PIPING BACK TO THE APPROXIMATE LOCATION SHOWN FOR FUTURE CONNECTION.
3. THIS CHILLED WATER PIPING IS TO BE DEMOLISHED BACK TO THE APPROXIMATE LOCATION SHOWN AND PREPARE FOR FUTURE CONNECTION.
4. THIS EXISTING VAV BOX IS TO REMAIN IN SERVICE. PROTECT FROM DAMAGE.
5. DEMOLISH THIS CHILLED WATER PIPING ALL THE WAY DOWN THE MECHANICAL SHAFT. REFER TO THE BASEMENT MECHANICAL PIPING PLANS FOR ADDITIONAL INFORMATION.
6. DEMOLISH THIS SECTION OF THE EXISTING HEATING HOT WATER SUPPLY PIPING. CAREFULLY COORDINATE ANY HEATING HOT WATER SHUTDOWN WITH FACILITY PERSONNEL.
7. DEMOLISH THIS SECTION OF THE EXISTING HEATING HOT WATER RETURN PIPING. CAREFULLY COORDINATE ANY HEATING HOT WATER SHUTDOWN WITH FACILITY PERSONNEL.
8. EXISTING COOLING ONLY VAV BOX TO BE REMOVED AND RELOCATED. SEE NEW MECHANICAL PLANS FOR NEW LOCATION. 1

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8055925-2202
STATE OF UTAH

Sheet Name
MECHANICAL PIPING DEMOLITION PLAN - LEVEL 4

Sheet Number
M241A

Project Status
100% Construction Documents- Permit Set

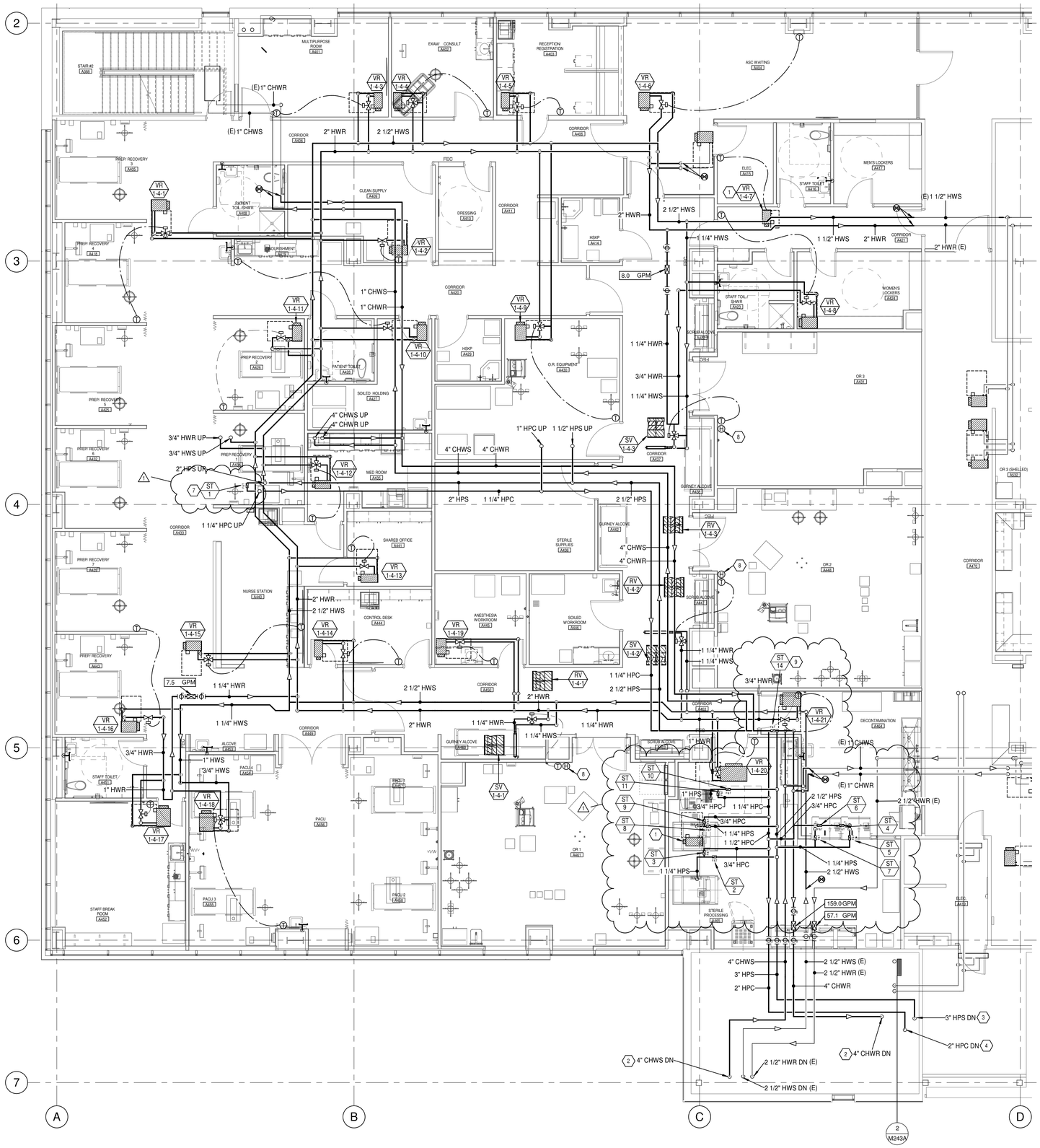
A

TRUE NORTH

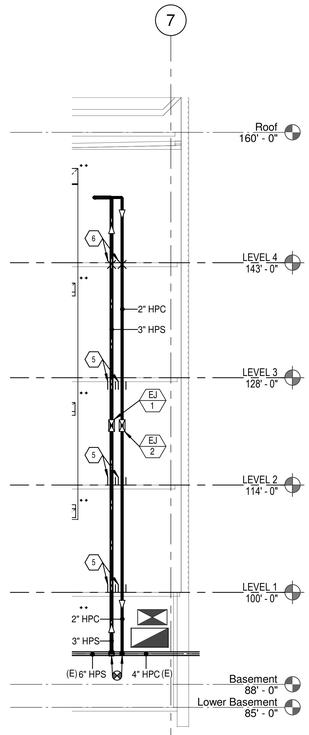
11/12/2020 5:19:30 PM BIM 360://10295 - Logan Regional Hospital Reconfiguration/10295_Mech Asc_2019.rvt

SHEET KEYNOTES

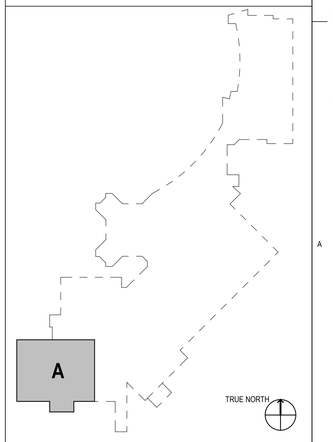
1. THIS IS A COOLING-ONLY VAV BOX. NO REHEAT COIL OR HEATING HOT WATER PIPING REQUIRED.
2. DROP THIS NEW CHILLED WATER PIPE DOWN THE MECHANICAL SHAFT TO THE BASEMENT LEVEL. REFER TO THE BASEMENT MECHANICAL PIPING PLANS FOR ADDITIONAL INFORMATION. CONTRACTOR TO PROVIDE ALL SCAFFOLDING, RAPPELLING, FALL PROTECTION, EQUIPMENT, ETC. REQUIRED FOR INSTALLATION WITHIN THE SHAFT. FIELD VERIFY THE EXTENT OF WORK.
3. DROP THIS NEW HIGH PRESSURE STEAM PIPE DOWN THE MECHANICAL SHAFT TO THE BASEMENT LEVEL. REFER TO THE BASEMENT MECHANICAL PIPING PLANS FOR ADDITIONAL INFORMATION. CONTRACTOR TO PROVIDE ALL SCAFFOLDING, RAPPELLING, FALL PROTECTION, EQUIPMENT, ETC. REQUIRED FOR INSTALLATION WITHIN THE SHAFT. FIELD VERIFY THE EXTENT OF WORK
4. DROP THIS NEW HIGH PRESSURE CONDENSATE PIPE DOWN THE MECHANICAL SHAFT TO THE BASEMENT LEVEL. REFER TO THE BASEMENT MECHANICAL PIPING PLANS FOR ADDITIONAL INFORMATION. CONTRACTOR TO PROVIDE ALL SCAFFOLDING, RAPPELLING, FALL PROTECTION, EQUIPMENT, ETC. REQUIRED FOR INSTALLATION WITHIN THE SHAFT. FIELD VERIFY THE EXTENT OF WORK.
5. PIPING RISER GUIDE. METRAFLEX MODEL PGQ OR EQUAL.
6. PIPING ANCHOR CLAMP. METRAFLEX MODEL PA OR EQUAL.
7. PROVIDE AN END OF MAIN STEAM TRAP ABOVE THE CEILING IN THIS LOCATION.
8. WALL-MOUNTED HUMIDITY SENSOR. COORDINATE TREND LOG AND ALARM REQUIREMENTS WITH THE OWNER. REFER TO SPECIFICATION SECTION 230993.
9. PROVIDE A STEAM TRAP AT EACH CHANGE OF ELEVATION. THE STEAM PIPING IS TO BE SLOPED IN THE DIRECTION OF TRAVEL.



1 LEVEL 4 MECHANICAL PIPING PLAN
SCALE: 3/16" = 1'-0"



2 STEAM & CONDENSATE PIPING IN SHAFT
SCALE: 1/8" = 1'-0"



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PROFESSIONAL ENGINEER
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8055925-2202
STATE OF UTAH

Sheet Name

MECHANICAL PIPING NEW PLAN - LEVEL 4

Sheet Number

M243A

Project Status

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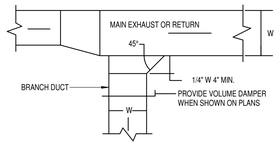
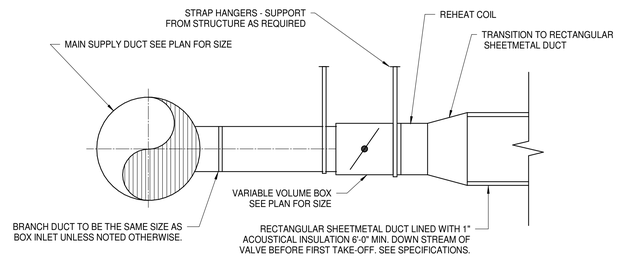
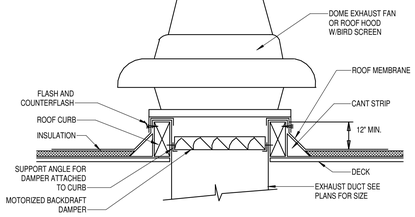


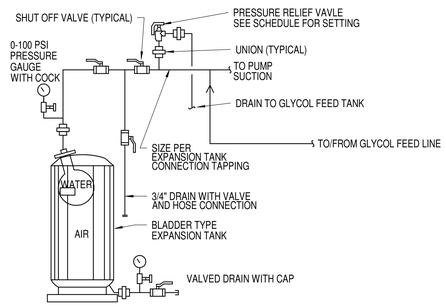
9 EXHAUST AND RETURN BRANCH DUCT DETAIL
NOT TO SCALE



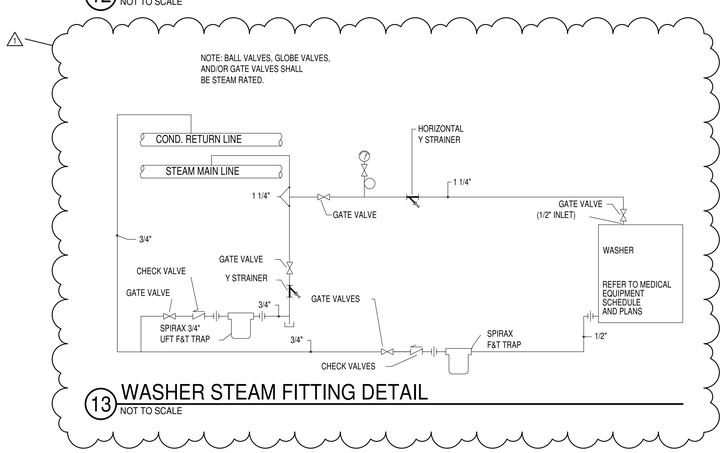
10 VARIABLE VOLUME BOX DETAIL
NOT TO SCALE



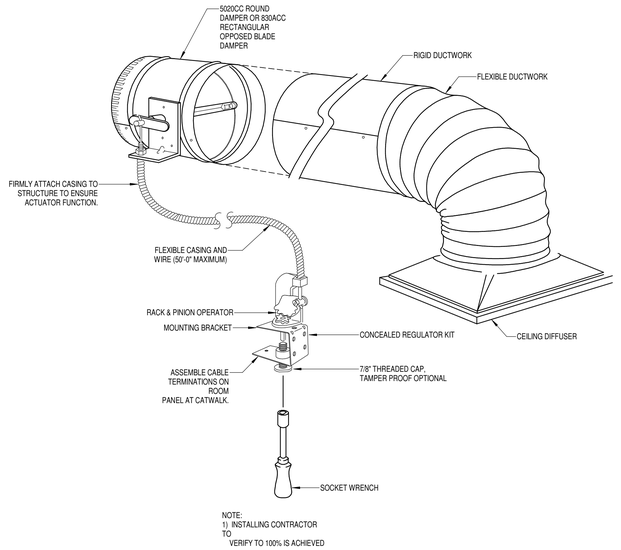
11 EXHAUST FAN DETAIL
NOT TO SCALE



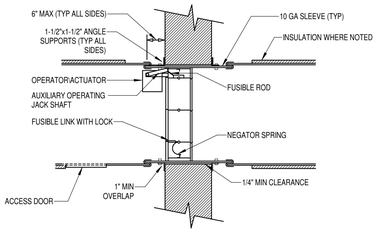
12 EXPANSION TANK - GLYCOL SYSTEM
NOT TO SCALE



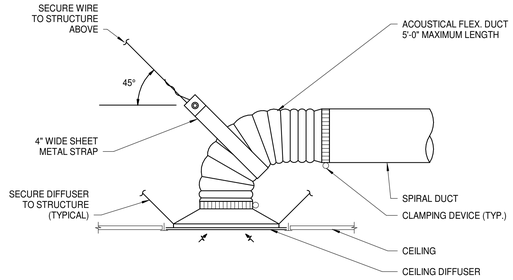
13 WASHER STEAM FITTING DETAIL
NOT TO SCALE



5 BOWDEN CABLE CONTROL SYSTEM
NOT TO SCALE



6 COMBINATION FIRE SMOKE DAMPER DETAIL
NOT TO SCALE



7 DIFFUSER CONNECTION DETAIL
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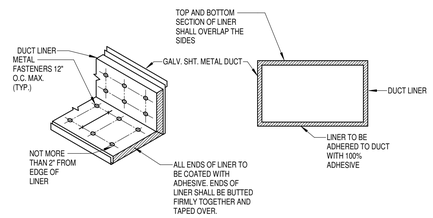
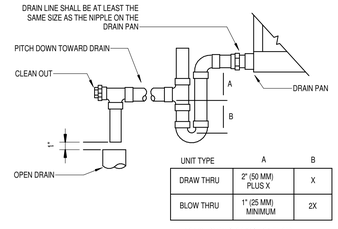


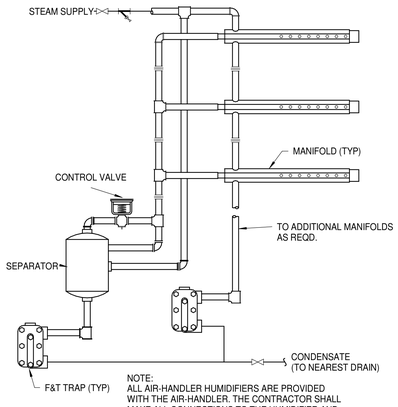
8 DUCT LINER DETAIL
NOT TO SCALE



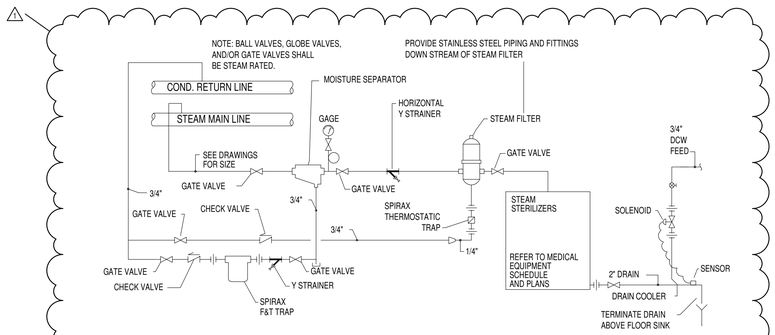
UNIT TYPE	A	B
DRAW THRU	2" (50 MM) PLUS X	X
BLOW THRU	1" (25 MM) MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

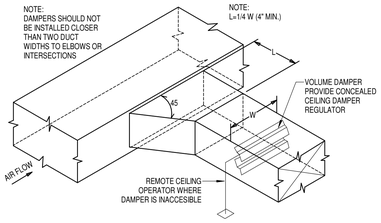
1 AIR HANDLING UNIT DRAIN TRAP
NOT TO SCALE



2 AIR-HANDLER HUMIDIFIER DETAIL
NOT TO SCALE



3 SINGLE STERILIZER STEAM FITTING DETAIL
NOT TO SCALE



4 BRANCH DUCT TAKE-OFF & DAMPER DETAIL
NOT TO SCALE

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PROFESSIONAL ENGINEER
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STATE OF UTAH

Sheet Name
MECHANICAL DETAILS

Sheet Number
M501

Project Status
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LEVEL 4 VAV BOX SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	INLET SIZE (IN)	AIR: COOLING MAXIMUM AIR (5) (CFM)	AIR: HEATING MAXIMUM AIR (CFM)	AIR: MINIMUM AIR (3) (CFM)	AIR: ENTERING AIR TEMP. DB (DEG. F)	AIR: LEAVING AIR TEMP. DB (DEG. F)	AIR: S.P. LOSS AT MAX CFM (4) (IN H20)	FLUID (2): NC AT 1" H2O (1) S.P.	FLUID (2): HEAT LOAD (BTUH)	TOTAL FLUID FLOW (GPM)	ENT./LEAV. FLUID TEMP (DEG. F)	WORKING FLUID	COIL: MAX. FLUID PRESSURE DROP (FT)	COIL: MIN. COIL ROWS	COIL: PIPE SIZE (IN)	BALANCING VALVE SIZE (IN)	REMARKS
V-1-4-1	TITUS-ESV-3	12	1480	860	325	52	90	0.65	26	30,066	2.0	180/150	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6
V-1-4-2	TITUS-ESV-3	10	745	635	500	52	90	0.65	28	22,200	1.5	180/150	H. WATER	1	2	3/4	1/2	1,2,3,4,5,6
V-1-4-3	TITUS-ESV-3	8	400	345	145	52	90	0.65	28	12,061	0.8	180/150	H. WATER	1	2	3/4	1/2	1,2,3,4,5,6
V-1-4-4	TITUS-ESV-3	8	240	320	145	52	90	0.65	28	11,187	0.7	180/150	H. WATER	1	2	3/4	1/2	1,2,3,4,5,6
V-1-4-5	TITUS-ESV-3	8	360	300	145	52	90	0.65	28	10,488	0.7	180/150	H. WATER	1	2	3/4	1/2	1,2,3,4,5,6
V-1-4-6	TITUS-ESV-3	12	840	945	325	52	90	0.65	26	33,037	2.2	180/150	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6
V-1-4-7	TITUS-ESV-3	6	350	0	80	52	52	0.5	28	0	0.0	-.-	-.-	-.-	-.-	-.-	-.-	1,3,4,5,6,7
V-1-4-8	TITUS-ESV-3	12	780	780	780	52	90	0.65	26	27,269	1.8	180/150	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6
V-1-4-9	TITUS-ESV-3	12	1135	775	325	52	90	0.65	26	27,094	1.8	180/150	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6
V-1-4-10	TITUS-ESV-3	10	765	765	765	52	90	0.65	26	26,744	1.8	180/150	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6
V-1-4-11	TITUS-ESV-3	10	485	535	230	52	90	0.65	26	18,704	1.2	180/150	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6
V-1-4-12	TITUS-ESV-3	8	470	145	145	52	90	0.65	28	5,069	0.3	180/150	H. WATER	1	2	3/4	1/2	1,2,3,4,5,6
V-1-4-13	TITUS-ESV-3	6	155	120	80	52	90	0.5	28	4,195	0.3	180/150	H. WATER	1	2	3/4	1/2	1,2,3,4,5,6
V-1-4-14	TITUS-ESV-3	6	250	120	80	52	90	0.5	28	4,195	0.3	180/150	H. WATER	1	2	3/4	1/2	1,2,3,4,5,6
V-1-4-15	TITUS-ESV-3	10	750	600	230	52	90	0.65	26	20,976	1.4	180/150	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6
V-1-4-16	TITUS-ESV-3	12	1480	860	325	52	90	0.65	26	30,066	2.0	180/150	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6
V-1-4-17	TITUS-ESV-3	14	1600	1350	1350	52	90	0.65	26	47,196	3.1	180/150	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6
V-1-4-18	TITUS-ESV-3	14	1250	1020	450	52	90	0.65	26	35,659	2.4	180/150	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6
V-1-4-19	TITUS-ESV-3	10	715	505	505	52	90	0.65	26	17,655	1.2	180/150	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6
V-1-4-20	TITUS-ESV-3	24x16	2600	1260	1260	52	90	0.7	29	44,050	2.9	180/150	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6
V-1-4-21	TITUS-ESV-3	14	1660	1000	1000	52	90	0.65	26	34,960	2.3	180/150	H. WATER	1	2	3/4	1/2	1,2,3,4,5,6
VR-A4-2	TITUS-ESV-3	12	1460	1460	440	52	90	0.65	26	51,042	3.4	180/150	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6,8
VR-A4-8	TITUS-ESV-3	6	200	0	80	52	52	0.5	28	0	0.0	-.-	-.-	-.-	-.-	-.-	-.-	1,3,4,5,6,7,8

1. MAXIMUM DISCHARGE NC AT BOX DIFFERENTIAL PRESSURE BASED ON ARI STANDARD 880-89
2. COIL HEATING CAPACITY BASED ON HEATING MAXIMUM AIR FLOW (60% OF MAXIMUM COOLING CFM FOR THAT BOX SIZE).
3. MINIMUM CFM IS THE LOWEST CONTROLLABLE CFM SETTING (BASED ON 400 FPM INLET VELOCITY) UNLESS SHOWN HIGHER IN THIS SCHEDULE.
4. MAXIMUM STATIC PRESSURE DROP PERMISSABLE ACROSS BOX AND COIL AT MAXIMUM COOLING CFM.
5. BOX COOLING MAXIMUM IS THE SUM OF DIFFUSERS CFM VALUES AS SHOWN IN THE DRAWINGS.
6. PRESSURE INDEPENDENT TYPE BOX.
7. COOLING-ONLY VAV BOX. NO REHEAT COIL REQUIRED.
8. EXISTING VAV BOX TO BE RECONNECTED TO THE NEW DUCTWORK AS SHOWN ON THE DRAWINGS. AFTER THE CONSTRUCTION IS COMPLETE, REBALANCE TO THE VALUES SHOWN ON THIS SCHEDULE.

LEVEL 4 AIR CONTROL VALVE SCHEDULE

AREA SERVED	ID	MANUFACTURER AND MODEL NUMBER	SUPPLY: AIR: INLET DIA. (IN)	AIR: COOLING MAXIMUM AIRFLOW (CFM)	AIR: HEATING MAXIMUM AIRFLOW (CFM)	AIR: OCCUPIED MINIMUM AIRFLOW (CFM)	AIR: UNOCCUPIED MINIMUM AIRFLOW (CFM)	AIR: AIRFLOW DRIVING FACTOR	FLUID: ENTERING AIR TEMP. DB (DEG. F)	FLUID: MINIMUM LEAVING AIR TEMP. (DEG. F)	FLUID: S.P. LOSS AT MAX CFM (IN H20)	FLUID: HEAT LOAD (BTUH)	FLUID: TOTAL FLUID FLOW (GPM)	FLUID: ENTERING/ LEAVING FLUID TEMP. (DEG. F)	FLUID: WORKING FLUID	FLUID: MAX. FLUID PRESSURE DROP (FT)	COIL: MIN. COIL ROWS	COIL: MIN. FINS (FPI)	COIL: COIL SIZE H x W (IN)	COIL: MAX. AIR PRESSURE DROP (IN. W.G.)	COIL: PIPE SIZE (IN)	RETURN: INLET DIA. (IN)	RETURN: MAXIMUM AIRFLOW (CFM)	RETURN: OCCUPIED MINIMUM AIRFLOW (CFM)	RETURN: UNOCCUPIED MINIMUM AIRFLOW (CFM)	RETURN: S.P. LOSS AT MAX CFM (IN H20)	NOTES
LEVEL 4 - ASC																											
OR #1	SV-1-4-1	TRIATEK VV214AIFAPHMU	2x14	3730	3730	2015	650	LOAD	52	90	0.6	130,401	8.7	180/150	WATER	2.0	2	8	18x32	0.4	1-1/4	---	---	---	---	---	(1)(2)
	RV-1-4-1	TRIATEK VV214ANFAPHMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2x14	3430	1715	350	0.6	(1)(2)
OR #2	SV-1-4-2	TRIATEK VV214AIFAPHMU	2x14	3410	3410	2015	650	LOAD	52	90	0.6	119,214	7.9	180/150	WATER	2.0	2	8	18x32	0.4	1-1/4	---	---	---	---	---	(1)(2)
	RV-1-4-2	TRIATEK VV214ANFAPHMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2x14	3110	1715	350	0.6	(1)(2)
OR #3 (SHELLED)	SV-1-4-3	TRIATEK VV212AIFAPHMU	2x12	2660	2660	1535	480	LOAD	52	90	0.6	92,994	6.2	180/150	WATER	2.0	2	8	18x26	0.4	1-1/4	---	---	---	---	---	(1)(2)
	RV-1-4-3	TRIATEK VV212ANFAPHMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2x12	2360	1235	180	0.6	(1)(2)

(1) ALL CAPACITIES AT 4,500 FT ELEVATION.
(2) PRESSURE INDEPENDENT LOW PRESSURE CONTROL VALVE. VALVE SHALL BE EQUIPPED WITH PRESSURE SWITCH.

UNIT HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIR: AIRFLOW RATE (CFM)	AIR: RPM	CAPACITY: HEATING OUTPUT (BTUH)	CAPACITY: HOT WATER (GPM)	CAPACITY: ENTERING WATER TEMP (F)	ELECTRICAL: MOTOR SIZE (HP)	ELECTRICAL: VOLT/PH/HZ	ELECTRICAL: TOTAL FLA	PHYSICAL: DEPTH/ WIDTH/ HEIGHT (IN)	PHYSICAL: WEIGHT (LBS)	NOTES
UH-1	TRANE UHSB0181TAA101A0000	AHU-3 SERVICE VESTIBULE	395	1550	12,327	1.3	180	0.02	115/1/60	0.8	10/12.25/15	26	1, 2, 3, 4

1. HEATER IS FOR FREEZE PROTECTION. SET THERMOSTAT FOR 50 DEGREES (ADJUSTABLE).
2. UNIT TO BE CONTROLLED BY A DDC THERMOSTAT IN THE LOCATION SHOWN ON THE DRAWINGS.
3. BMS TO MONITOR THE SPACE TEMPERATURE & ALARM IF THE SPACE DROPS BELOW 45 DEGREES (ADJUSTABLE).
4. UNIT HEATER IS ON EMERGENCY POWER.

EXPANSION JOINT SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	SERVICE LINE	PRESSURE RATING (PSI)	DIAMETER (IN)	TOTAL AXIAL EXTENSION (IN)	TOTAL AXIAL COMPRESSION (IN)	TYPE WITH BASE	NOTES
EJ-1	METRAFLEX HPF30300	MECH. SHAFT	HPS	175	3	0.50	3.00	FIXED FLANGE DUAL ANCHOR BASE	1
EJ-2	METRAFLEX HPT30200	MECH. SHAFT	HPC	175	2	0.50	3.00	SCHEDULE 80 THREADED CONNECTION	

HPS: HIGH PRESSURE STEAM
HPC: HIGH PRESSURE CONDENSATE
HWS: HOT WATER SUPPLY
HWR: HOT WATER RETURN
DHWS: DOMESTIC HOT WATER SUPPLY
DHWR: DOMESTIC HOT WATER RETURN
G(HWS): GLYCOL HOT WATER SUPPLY
G(HWR): GLYCOL HOT WATER RETURN

1.RAISED FACED SLIP-ON FLANGES, LIFTING LUG, VENT PLUG, DRAIN PLUG.
2. SWEAT ENDS BRONZE HOSE & BRAID, LEAD FREE, POTTABLE WATER USE.
3. WELD ENDS, SCHED. 40 CARBON STEEL, HOSE & BRAID - SERIES 300 STAINLESS STEEL.
4. WELDED ENDS, STAINLESS STEEL. CONTRACTOR TO SUBMIT SHOPDRAWINGS AND EXPANSION CALCULATIONS.

1

AUTOMATIC PUMP TRAP SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	STEAM: FLOW RATE (LB/H)	STEAM: OPERATING PRESSURE (PSIG)	STEAM: MOTIVE PRESSURE (PSIG)	STEAM: BACK PRESSURE (PSIG)	PHYSICAL: MINIMUM FILLING HEAD (IN)	PHYSICAL: LENGTH/ WIDTH/ HEIGHT (IN)	NOTES
APT-3-1	SPIRAX SARCO APT14	AHU-3	546.6	6.4	66.3	10	8	15/15/12	

HDR

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STATE OF UTAH

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M603

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STEAM FILTER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	BODY CONSTRUCTION	STEAM FLOW RATE (LB/H)	PHYSICAL CONNECT SIZE (IN)	NOTES
STF-1	SPIRAX SARCO FS-1-1/2	STERILE PROCESSING A465	STAINLESS STEEL	310	1.25	
STF-2	SPIRAX SARCO FS-1-1/2	STERILE PROCESSING A465	STAINLESS STEEL	310	1.25	
STF-3	SPIRAX SARCO FS-1	STERILE PROCESSING A465	STAINLESS STEEL	158	1	

STEAM SEPARATOR SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	BODY CONSTRUCTION	STEAM FLOW RATE (LB/H)	PHYSICAL CONNECT SIZE (IN)	NOTES
SS-1	SPIRAX SARCO S2	STERILE PROCESSING A465	HORIZ BAFFLE; CAST IRON	STAINLESS STEEL	310	1.25	
SS-2	SPIRAX SARCO S2	STERILE PROCESSING A465	HORIZ BAFFLE; CAST IRON	STAINLESS STEEL	310	1.25	
SS-3	SPIRAX SARCO S2	STERILE PROCESSING A465	HORIZ BAFFLE; CAST IRON	STAINLESS STEEL	158	0.75	
SS-4	SPIRAX SARCO S2	AHU-3	HORIZ BAFFLE; CAST IRON	STAINLESS STEEL	896	2	

STEAM TRAP SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	BODY CONSTRUCTION	STEAM FLOW RATE (LB/H)	OPERATING PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (PSIG)	PHYSICAL CONNECT SIZE (IN)	NOTES
ST-1	SPIRAX SARCO FT-125	PREP RECOVERY 1 A434	FLOAT & THERMOSTATIC	CAST IRON	100	80	3.5	3/4	
ST-2	SPIRAX SARCO FT-125	STERILE PROCESSING A465	FLOAT & THERMOSTATIC	CAST IRON	310	50	3.5	3/4	
ST-3	SPIRAX SARCO TD42	STERILE PROCESSING A465	THERMODYNAMIC	STAINLESS STEEL	100	50	3.5	3/4	
ST-4	SPIRAX SARCO FT-125	STERILE PROCESSING A465	FLOAT & THERMOSTATIC	CAST IRON	169	30	3.5	3/4	
ST-5	SPIRAX SARCO FT-125	STERILE PROCESSING A465	FLOAT & THERMOSTATIC	CAST IRON	169	30	3.5	3/4	
ST-6	SPIRAX SARCO FT-125	STERILE PROCESSING A465	FLOAT & THERMOSTATIC	CAST IRON	169	30	3.5	3/4	
ST-7	SPIRAX SARCO FT-125	STERILE PROCESSING A465	FLOAT & THERMOSTATIC	CAST IRON	169	30	3.5	3/4	
ST-8	SPIRAX SARCO FT-125	STERILE PROCESSING A465	FLOAT & THERMOSTATIC	CAST IRON	310	50	3.5	3/4	
ST-9	SPIRAX SARCO TD42	STERILE PROCESSING A465	THERMODYNAMIC	STAINLESS STEEL	100	50	3.5	3/4	
ST-10	SPIRAX SARCO FT-125	STERILE PROCESSING A465	FLOAT & THERMOSTATIC	CAST IRON	158	50	3.5	3/4	
ST-11	SPIRAX SARCO TD42	STERILE PROCESSING A465	THERMODYNAMIC	STAINLESS STEEL	100	50	3.5	3/4	
ST-12	SPIRAX SARCO FT-125	AHU-3	FLOAT & THERMOSTATIC	CAST IRON	896	15	3.5	1-1/4	
ST-13	SPIRAX SARCO FT-125	AHU-3	FLOAT & THERMOSTATIC	CAST IRON	100	15	3.5	3/4	
ST-14	SPIRAX SARCO FT-125	DECONTAMINATION A464	FLOAT & THERMOSTATIC	CAST IRON	100	80	3.5	3/4	

STEAM PRESSURE-REDUCING VALVE SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	BODY CONSTRUCTION	STEAM FLOW RATE (LB/H)	STEAM INLET/ OUTLET PRESSURE (PSIG)	PHYSICAL CONNECT SIZE (IN)	NOTES
PRV-1	SPIRAX SARCO 25P 1.25"	STERILE PROCESSING A465	PILOT-OPERATED	BRONZE	310	80/50	1.25	
PRV-2	SPIRAX SARCO 25P 1.25"	STERILE PROCESSING A465	PILOT-OPERATED	BRONZE	169	80/30	1.25	
PRV-3	SPIRAX SARCO 25P 1.25"	STERILE PROCESSING A465	PILOT-OPERATED	BRONZE	169	80/30	1.25	
PRV-4	SPIRAX SARCO 25P 1.25"	STERILE PROCESSING A465	PILOT-OPERATED	BRONZE	310	80/50	1.25	
PRV-5	SPIRAX SARCO 25P 1"	STERILE PROCESSING A465	PILOT-OPERATED	BRONZE	158	80/50	1	
PRV-6	SPIRAX SARCO 25P 1.5"	AHU-3	PILOT-OPERATED	BRONZE	546.6	80/15	1.5	
PRV-7	SPIRAX SARCO 25P 1.5"	AHU-3	PILOT-OPERATED	BRONZE	546.6	80/15	1.5	
PRV-8	SPIRAX SARCO 25P 2"	AHU-3	PILOT-OPERATED	BRONZE	896	80/15	2	

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Sheet Name
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M604

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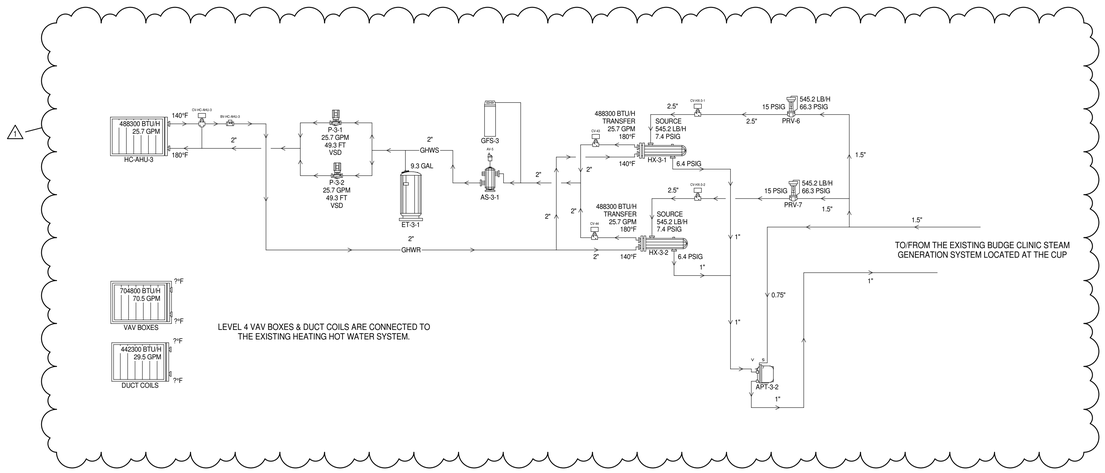
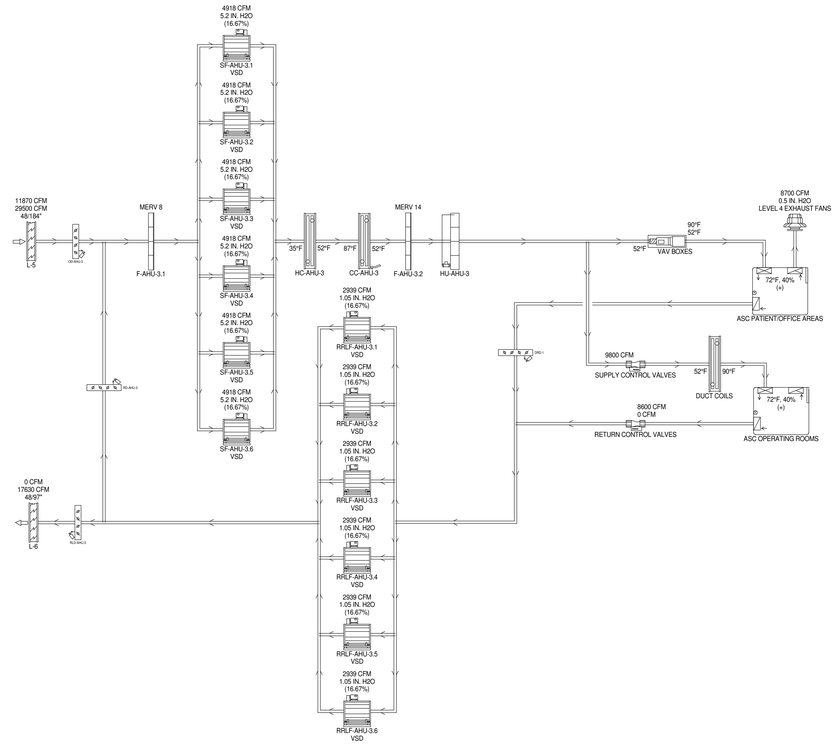
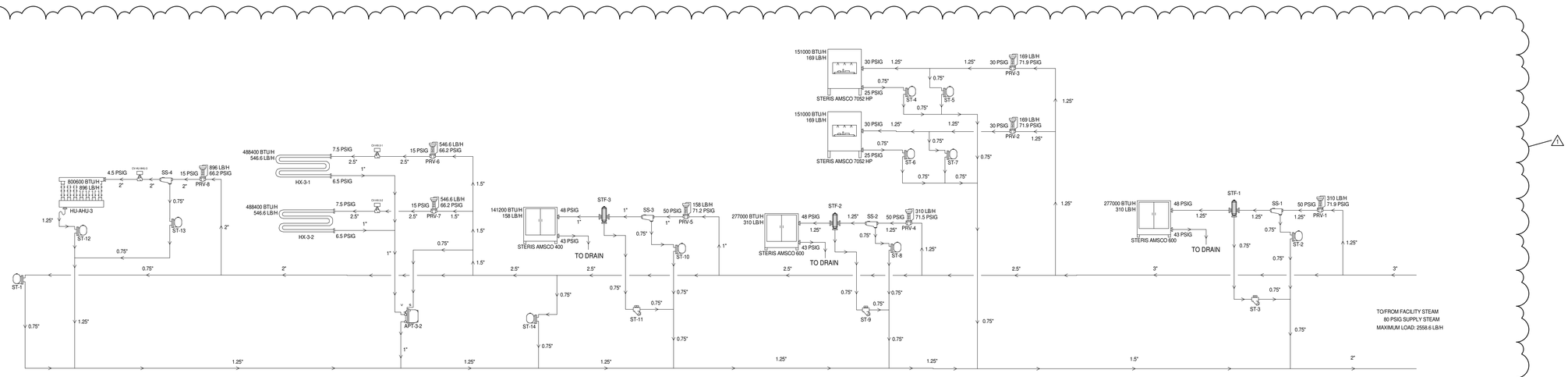


1 AIR HANDLER AHU-3 AIRFLOW & HEATING SECTION SCHEMATIC

NOT TO SCALE





2 ASC STEAM DISTRIBUTION SCHEMATIC

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Sheet Name

MECHANICAL SCHEMATICS

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M702

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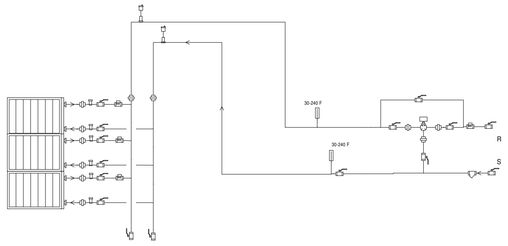
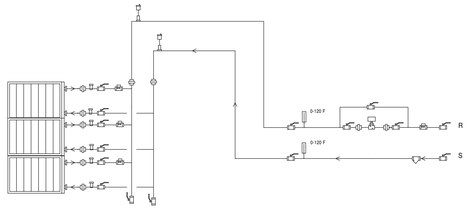
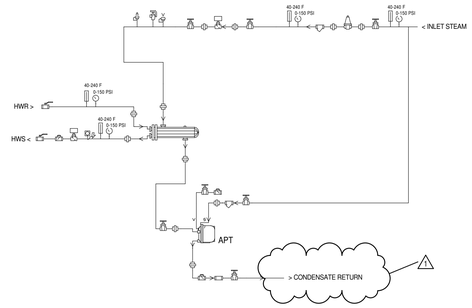


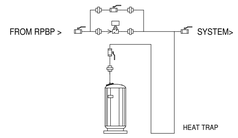
HEATING COIL BANK PIPING DETAIL



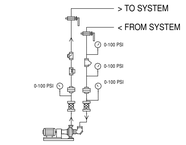
COOLING COIL BANK PIPING DETAIL



STEAM-TO-HOT WATER HEAT EXCHANGER DETAIL



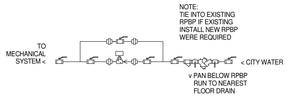
EXPANSION TANK DETAIL



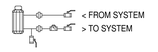
FRAME MOUNT END SUCTION PUMP DETAIL

INLINE PUMP DETAIL

AIR SEPARATOR DETAIL

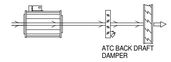


MAKE-UP WATER DETAIL



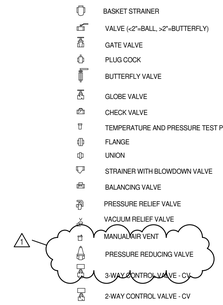
BYPASS FEEDER DETAIL

GLYCOL FEEDER DETAIL



EXHAUST FAN DETAIL

PARTIAL LEGEND



COIL BRANCH PIPE SIZES
(SEE SCHEDULE FOR FLOW):

.5"	=	<	0.6 GPM
.75"	= 0.6	TO	3.5 GPM
1"	= 3.6	TO	6.3 GPM
1.25"	= 6.7	TO	14 GPM
1.5"	= 14.1	TO	21 GPM
2"	= 21.1	TO	42 GPM
2.5"	= 42.1	TO	66 GPM
3"	= 66.1	TO	120 GPM
4"	= 120.1	TO	240 GPM
6"	= 240.1	TO	600 GPM
8"	= 600.1	TO	1000 GPM

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Structural Engineer	REAVELEY
Mechanical Engineer	VAN BOERUM & FRANK
Electrical Engineer	SPECTRUM
Plumbing Engineer	VAN BOERUM & FRANK
Interior Designer	RUBY THORP
Equipment Planner	ROBERT GRIESCHE
Wayfinding	

Sheet Reviewer	KJM

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Project Number	10173823
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Sheet Name

MECHANICAL SCHEMATICS

Sheet Number

M703

Project Status

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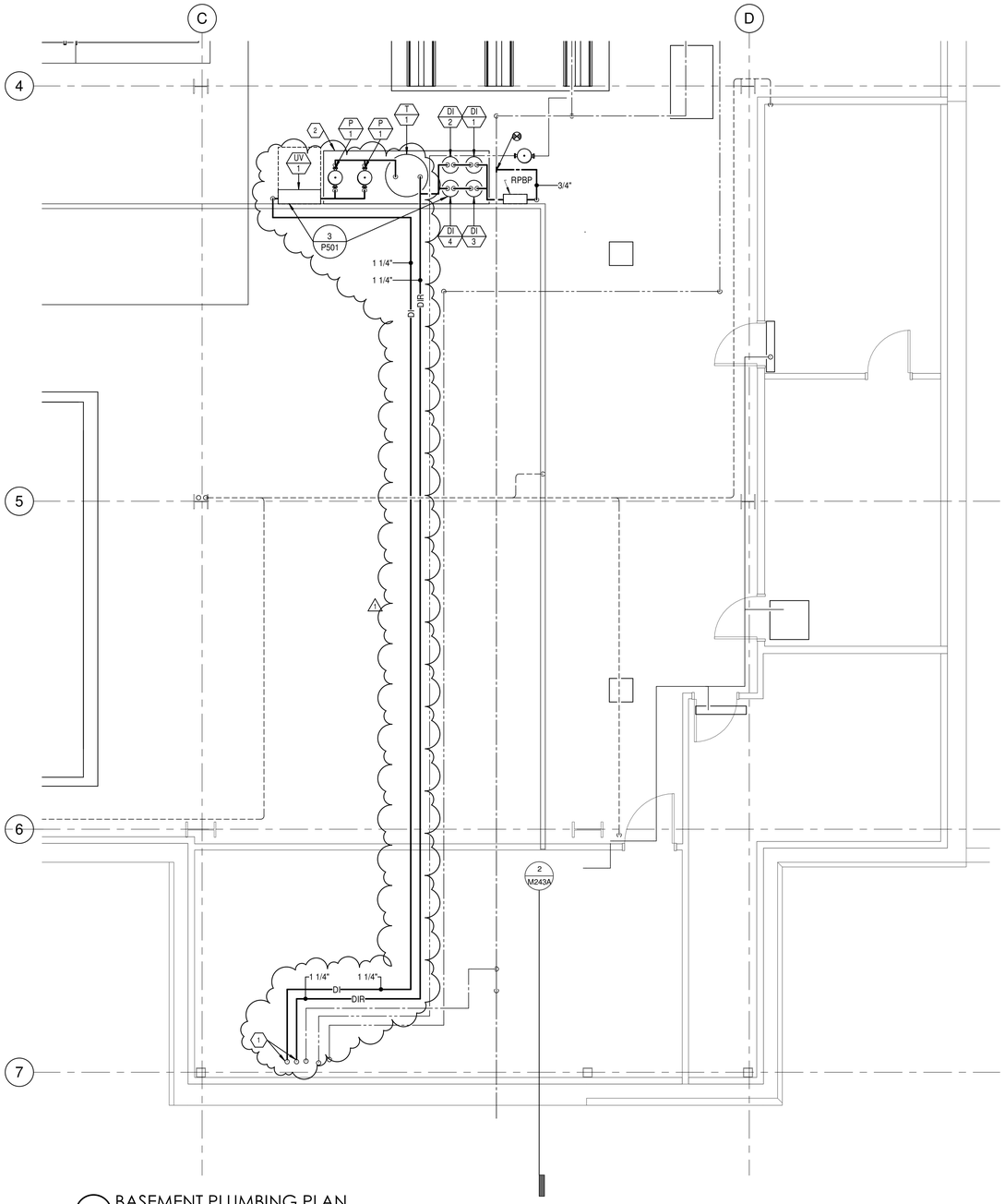
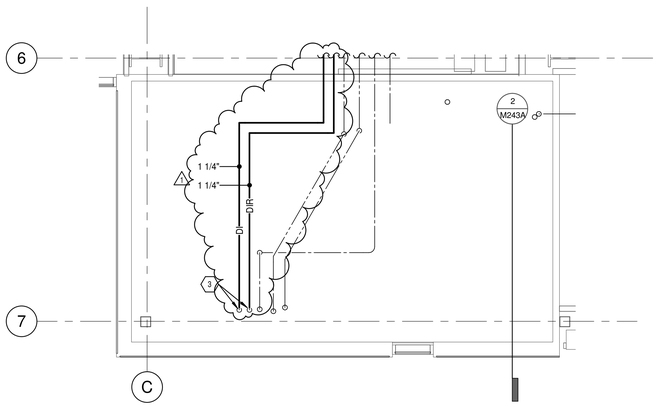


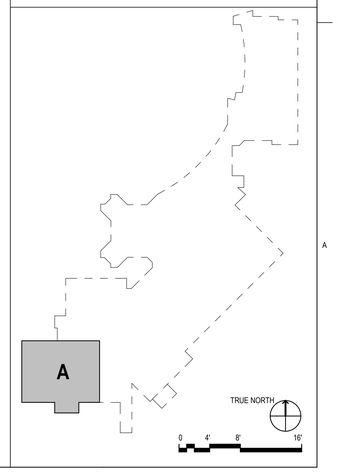


2 LEVEL 4 MECHANICAL SHAFT PLUMBING PLAN
SCALE: 1/4" = 1'-0"

1 BASEMENT PLUMBING PLAN
SCALE: 1/4" = 1'-0"

SHEET KEYNOTES

1. PIPING TO RISE UP IN SHAFT TO LEVEL 4 STERILE PROCESSING.
2. 6" CONCRETE HOUSEKEEPING PAD.
3. PIPING DOWN TO BASEMENT.



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INTERMOUNTAIN HEALTHCARE CAMPUS RECONFIGURATION - ASC

1350N 500 E
Logan, UT 84341

Intermountain Healthcare

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Sheet Name

BASEMENT & MECHANICAL SHAFT PLANS

Sheet Number

P103A

Project Status

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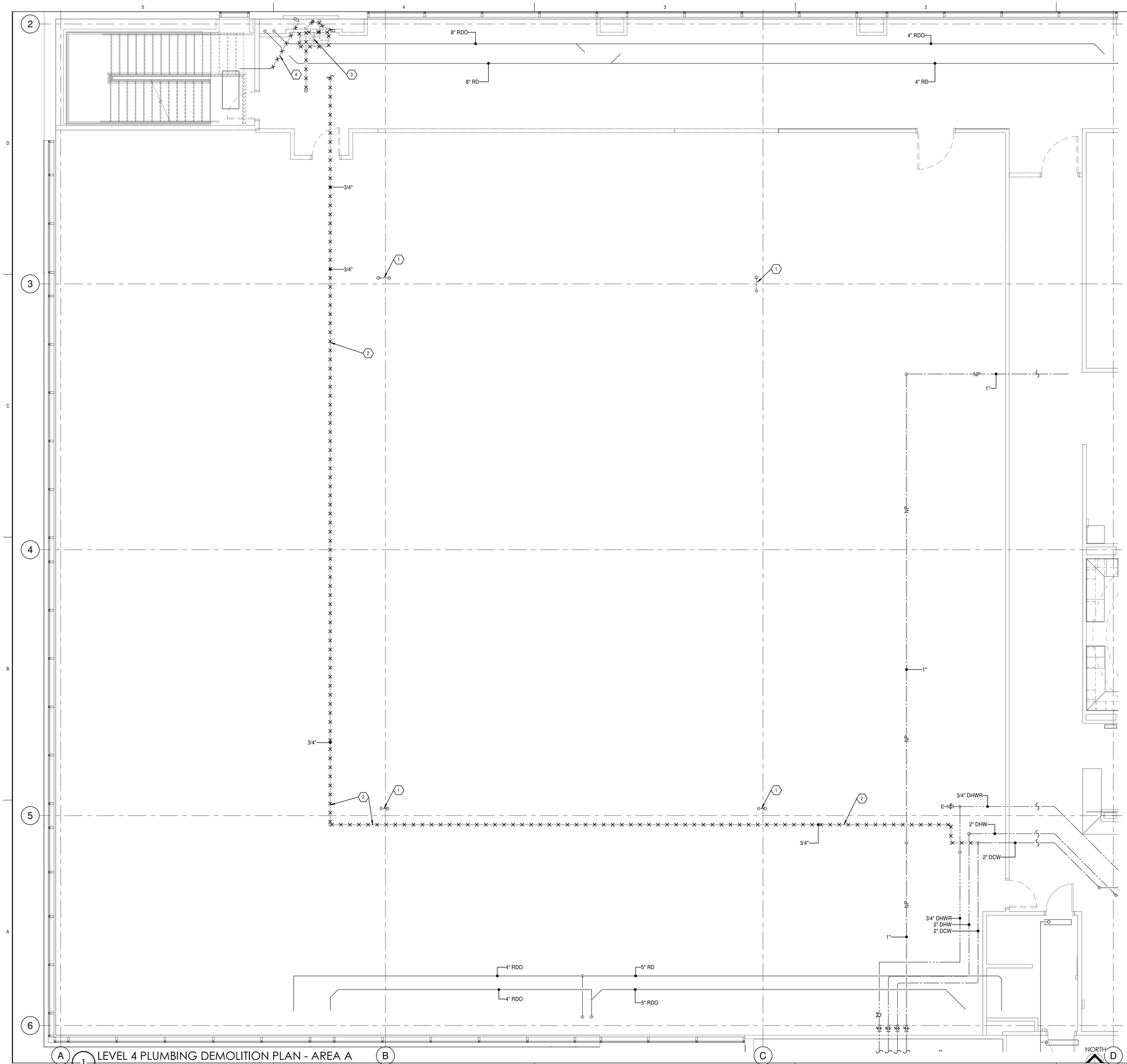
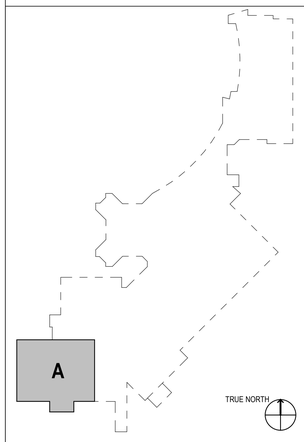


SHEET KEYNOTES

1. EXISTING WASTE AND VENT RISERS.
2. DEMOLISH AND REMOVE EXISTING PIPING SHOWN HATCHED.
3. DEMOLISH AND REMOVE EXISTING ELECTRIC WATER COOLER. CAP PIPING AT ACTIVE MAIN.
4. DEMOLISH AND REMOVE EXISTING CONDENSATE DRAIN PIPING. REPIPE CONDENSATE RD PIPING SEE P143A.



1 LEVEL 4 PLUMBING DEMOLITION PLAN - AREA A
SCALE: 1/4" = 1'-0"

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PLUMBING DEMOLITION PLAN - LEVEL 4

Sheet Number

P141A

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SHEET KEYNOTES

1. PROVIDE SHUTOFF VALVE, PIPE PLUGGED TEE, UNION BETWEEN STUB OUT AND EQUIPMENT. PIPE 1-1/2" WASTE OUTLET TO FLOOR SINK.
2. STACK DHW AND DCW RPBP'S ON WALL.
3. 1-1/2" DRAIN WITH P-TRAP AT EACH BASIN, INCLUDED WITH SINK, CONNECT TO 2" WASTE TO FLOOR SINK. CONNECT TO 1/2" CW, 1/2" HW, 1/2" CA TO WATER GUN. 1/2" HW, 1/2" CW, 1/2" PURE WATER PER THE MANUFACTURER'S REQUIREMENTS. PROVIDE AND INSTALL PRESSURE REGULATOR FOR WATER GUN. SET PRESSURE TO 40 PSI. PROVIDE AND INSTALL A PRESSURE REGULATOR FOR COMPRESSED AIR CONNECTION AND SET TO 30 PSI MAX.
4. CONNECT COFFEE MAKER TO THE WALL OUTLET.
5. FOR WATER CONNECTION TO NEPTUNE 2 WASTE MANAGEMENT SYSTEM PROVIDE: SYMMONS 7-102A THERMOSTATIC MIXING VALVE WITH THERMOMETER AND PRESSURE GUAGE. PROVIDE ISLOATION VALVE AND SWING CHECK VALVES UPSTREAM OF THE MIXING VALVE ON BOTH HOT AND COLD WATER LINES. SURFACE MOUNT MIXING VALVE AND RELATED PIPING IN ACCESSIBLE LOCATION ON THE WALL ABOVE THE NEPTUNE 2 EQUIPMENT.
6. DISCHARGE WASTE PIPE INTO WALL BOX. WALL BOX SHALL BE INSTALLED AT 36" ABOVE FINISHED FLOOR.
7. CONNECT TO ULTRASONIC CLEANER PER MANUFACTURER'S REQUIREMENTS. PROVIDE SHUT OFF VALVES. CONNECT TO 3/4" HW, 3/4" CW. PIPE 3/4" WASTE TO FLOOR SINK.
8. CONNECT TO PASS THROUGH STEAM WASHER PER MANUFACTURER'S REQUIREMENTS. PROVIDE AND INSTALL ISOLCATION VALVES AT EACH CONNECTION.
9. 1-1/4" DRAINS TO AIR HANDLER ABOVE. SLOPE 2% BACK TO SERVICE SINK. DROP IN WALL AND STUB OUT 6" ABOVE RIM OF SERVICE SINK AND ANGLE DOWN INTO SINK.
10. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. LABEL AS NON POTABLE WATER.
11. OFFSET VTR IN CEILING SPACE TO MAINTAIN 25 FEET OF CLEARANCE SURROUNDING AHU-3 AIR INTAKE. PATCH AND REPAIR ROOF PENETRATION TO MATCH ARCHITECTURAL.

1 LEVEL 4 PLUMBING PLAN - AREA A
SCALE: 1/4" = 1'-0"

HDR

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8055925-2202
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Sheet Name

PLUMBING NEW PLAN - LEVEL 4

Sheet Number

P143A

Project Status

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TRUE NORTH

SHEET KEYNOTES

1. STUB MEDGAS PIPING INTO SHELLED SPACE. CAP FOR FUTURE CONNECTION.
2. LOCKABLE MEDICAL GAS SERVICE SHUT-OFF VALVES AND FRANGIBLE LOCKS ABOVE THE CEILING. TAG WITH THE GAS SERVED. LOCK VALVE IN OPEN POSITION.
3. EXISTING MED GAS SHUT-OFF VALVES.

LEVEL 4 MEDICAL GAS PIPING PLAN - AREA A

SCALE: 1/4" = 1'-0"

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8055925-2202
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Sheet Name

MEDICAL GAS NEW PLAN - LEVEL 4

Sheet Number

P243A

Project Status

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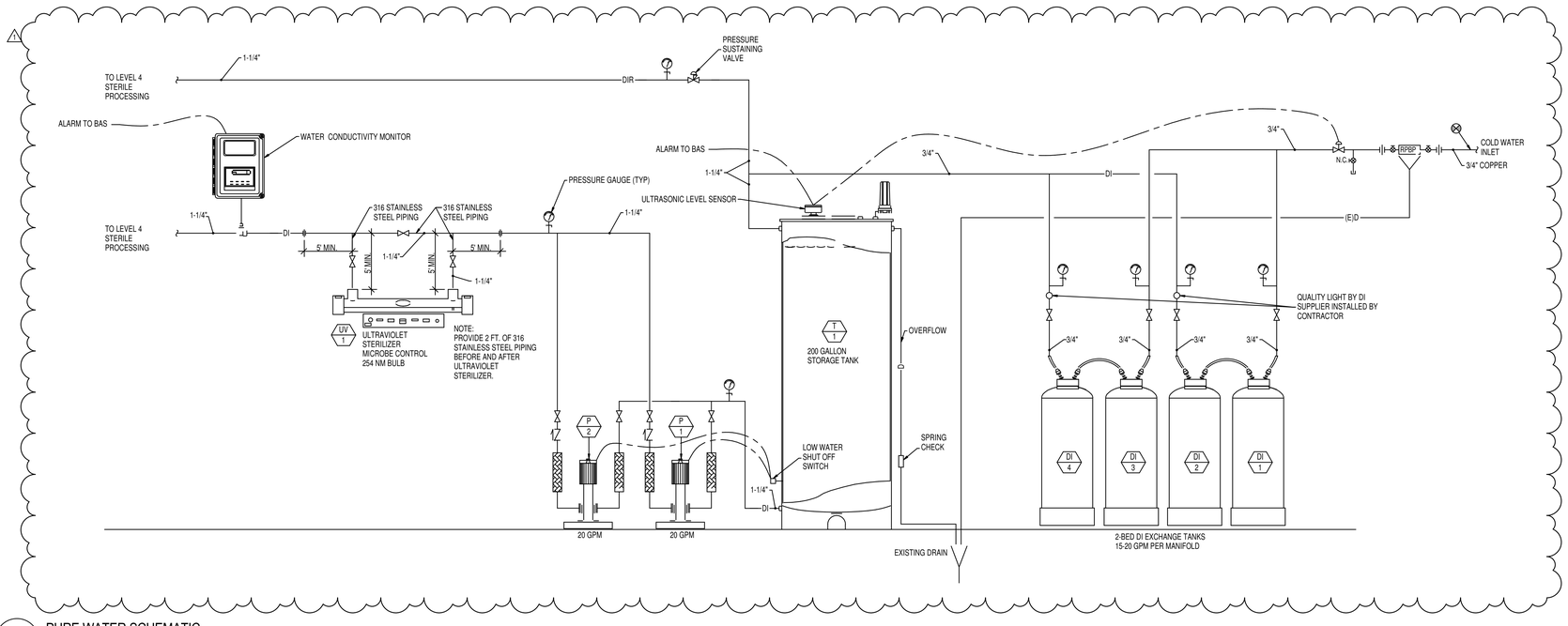
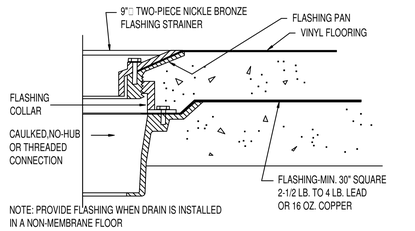
TRUE NORTH



3 / P501 PURE WATER SCHEMATIC

NO SCALE



2 / P501 FLOOR DRAIN

NO SCALE

1 / P501 NOT USED

NO SCALE

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Sheet Name

PLUMBING DETAILS

Sheet Number

P501

Project Status

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PLUMBING FIXTURE SCHEDULE

ID	FIXTURE	DCW (IN)	DHW (IN)	W (IN)	V (IN)	DESCRIPTION	NOTES
EW-1	EMERGENCY EYE WASH	1	1	-.-	-.-	TEPID WATER	EMERGENCY EYE WASH STATION: GUARDIAN MODEL G5046BP WALL MOUNTED UNIT COMPLETE WITH DRENCH HOSE STYLE EYE/FACE WASH STATION WITH VACUUM BREAKER AND GUARDIAN G3600LF THERMOSTATIC MIXING VALVE INSTALLED ABOVE CEILING DIRECTLY OVER FIXTURE. SET THE OUTLET TEMPERATURE TO 85-90 F. PROVIDE WATTS LF7 DUAL CHECK VALVES ON HOT AND COLD LINES.
FD-1	FLOOR DRAIN	-.-	-.-	2	2	GENERAL USE FLOOR DRAIN	FLOOR DRAIN (RESTROOM): SMITH FIGURE 2005Y FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 6" ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED GRATE. PROVIDE AND INSTALL TRAP GUARD TRAP SEAL.
FS-1	FLOOR SINK	-.-	-.-	3	2	CENTRAL STERILE	FLOOR SINK: SMITH FIGURE 3100Y CAST IRON FLANGED RECEPTOR WITH ACID RESISTANT INTERIOR COATING, NICKEL BRONZE RIM AND SECURED 1/2 GRATE AND ALUMINUM DOME BOTTOM STRAINER. PROVIDE AND INSTALL TRAP GUARD TRAP SEAL.
HB-1	HOSE BIBB	1/2	-.-	-.-	-.-	HOSE BIBB	HOSE BIBB: CHICAGO 897-RCF FAUCET WITH VACUUM BREAKER, PROVIDE WATTS NO. 7 DUAL CHECKS IN HOT AND COLD SUPPLIES, SCREWDRIVER STOPS IN SHANKS.
HY-1	HAMMER ARRESTOR	-.-	-.-	-.-	-.-	HAMMER ARRESTOR	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.
L-1	LAVATORY	1/2	1/2	2	2	WALL HUNG, GOOSENECK FAUCET WITH MANUAL WRISTBLADES	LAVATORY: KOHLER K-2030, GREENWICH, 20" X 18", VITREOUS CHINA, WITH FRONT OVERFLOW. CHICAGO 786-E72-245ABCP FAUCET WITH 4" WRIST BLADE HANDLES, GN2BJKABCP RIGID/SWING GOOSENECK SPOUT WITH 0.5 GPM LAMINAR FLOW CONTROL IN SPOUT. POWERS LFe480 THERMOSTATIC MIXING VALVE WITH WATTS LF7 DUAL CHECK VALVES ON HOT AND COLD LINES. FLEXIBLE STAINLESS STEEL SUPPLIES WITH WITH LOOSE KEY ANGLE STOPS. CHICAGO 327-XCP OPEN-GRID STRAINER AND CAST BRASS P-TRAP WITH CLEAN OUT PLUG. SMITH 0700-Z CONCEALED ARM CHAIR CARRIER WITH FOOT SUPPORT. PROVIDE ADA COMPLIANT UNDER COUNTER PIPING WRAP BY TRUE-BRO, COLOR TO BE WHITE.
S-1	SINK (INTEGRAL TO COUNTER)	1/2	1/2	2	2	SINK (INTEGRAL TO COUNTER)	SINK (BASIN INTEGRAL TO COUNTERTOP) CHICAGO 786-GN8FCXKABCP FAUCET WITH WRIST BLADE HANDLES, GN8FC RIGID/SWING GOOSENECK SPOUT WITH 1.5 GPM LAMINAR FLOW CONTROL IN SPOUT. WATTS LFUSG-B-M2 THERMOSTATIC MIXING VALVE WITH WATTS #7 DUAL CHECK VALVES ON HOT AND COLD LINES INSTALLED IN CEILING. FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; CHICAGO 327-XCP OPEN GRID STRAINER AND CAST BRASS P-TRAP WITH CLEAN OUT PLUG. PROVIDE ADA COMPLIANT UNDER COUNTER PIPING WRAP BY TRU-BRO, COLOR TO BE WHITE.
S-2	BREAK ROOM SINK	1/2	1/2	2	2	COUNTER MOUNTED SINGLE COMPARTMENT, STAINLESS STEEL, SINGLE HANDLE	SINK: ELKAY LR-2219 18 GA. TYPE 302 STAINLESS STEEL SINK; 22” X 19” X 7½” DEEP; SELF RIMMING; (1) FAUCET HOLE; LK-35 DUO STRAINER; CHICAGO 430-ABCP SINGLE LEVER FAUCET 9-1/2" INTEGRAL SWING SPOUT; FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.
S-3	SURGEON SCRUB SINK	1/2	1/2	2	2	SURGEON SCRUB SINK	FIXTURE FURNISHED BY OTHERS. PROVIDE FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS AND CAST BRASS P-TRAP WITH CLEAN OUT PLUG.
S-4	SINK	1/2	1/2	2	2	COUNTER MOUNTED SINGLE COMPARTMENT, STAINLESS STEEL, WRIST BLADE HANDLES	SINK: ELKAY LR-2219 18 GA. TYPE 302 STAINLESS STEEL SINK; 22” X 19” X 7½” DEEP; SELF RIMMING; (2) FAUCET HOLES ON 8" CENTER; CHICAGO 786-GN2FCXKABCP FAUCET WITH 4" WRIST BLADE HANDLES, RIGID/SWING GOOSENECK SPOUT WITH 1.5 GPM LAMINAR FLOW CONTROL IN SPOUT. WATTS LFUSG-B-M2 THERMOSTATIC MIXING VALVE WITH WATTS #7 DUAL CHECK VALVES ON HOT AND COLD LINES INSTALLED IN CEILING. FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; CHICAGO 327-XCP OPEN GRID STRAINER AND CAST BRASS P-TRAP WITH CLEAN OUT PLUG. PROVIDE ADA COMPLIANT UNDER COUNTER PIPING WRAP BY TRU-BRO, COLOR TO BE WHITE.
SS-1	SERVICE SINK	3/4	3/4	3	2	CORNER FLOOR MOUNT, JANITOR'S CLOSET	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, PROVIDE WATTS NO. 7 DUAL CHECKS IN HOT AND COLD SUPPLIES, SCREWDRIVER STOPS IN SHANKS, 5 FOOT RUBBER HOSE AND WALL HOOK, 853.
CSS-1	CLINICAL SERVICE SINK	1	1/2	4	2	FLOOR MOUNT, FLUSH VALVE, BED PAN WASHER	KOHLER K-6676 TYRRELL FLOOR MOUNTED CLINIC SINK; CHICAGO 814-VBCP FAUCET; SLOAN REGAL 117 XL FLUSH VALVE; CHICAGO 910-GSL0777-19KCP WALL MOUNTED BEDPAN WASHER WITH FOOT PEDALS VACUUM BREAKER AND HAND HELD SPRAY HOSE. PROVIDE 10" HIGH CONCRETE BASE FOR FLOOR SINK. INSTALLED IN CEILING WITH ACCESS DOOR IF HARD CEILING, PROVIDE WATTS LFMMV THERMOSTATIC MIXING VALVE WITH WATTS #7 DUAL CHECK VALVES ON HOT AND COLD LINES.
SH-1	SHOWER	1/2	1/2			ADA, FIXED AND HAND HELD SHOWER HEADS	SHOWER (ADA COMPLIANT): SYMMONS 1-1170VT-T600B-36-V-X-1.5 VISU-TEMP EXTRA HEAVY DUTY SHOWER SYSTEM WITH PRESSURE BALANCING MIXING VALVE, CLEAR-VUE THERMOMETER, LEVER HANDLE, ADJUSTBABLE STOP SCREW, INTEGRAL SERVICE STOPS, 1.5 GPM SHOWER HEAD WITH 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.
WC-1	ADA WATER CLOSET	1	-.-	4	2	FLOOR MOUNTED, MANUAL DUAL FLUSH VALVE, ADA	WATER CLOSET: KOHLER K-4368 HIGHCLIFF VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL, 1-1/2" TOP SPUD, ADA TOILET WITH K-4670-C LUSTRA OPEN-FRONT SEAT. SLOAN WES-111 MANUAL DUAL FLUSH, 1.6 GPF FLUSH VALVE; PROVIDE "DIRT GRABBER" FLUSH VALVE FILTER, COORDINATE SIZE WITH FLUSH VALVE; INSTALL ACTUATOR ON WIDE SIDE OF FIXTURE. COORDINATE MOUNTING HIEGHT WITH ARCHITECTURAL DAWINGS.
WO-1	WATER OUTLET BOX	1/2	-.-	-.-	-.-	WATER OUTLET BOX	WATER OUTLET BOX: WATER-TITE 87978 ICE MAKER OUTLET BOX WITH HAMMER ARRESTER AND QUARTER TURN BALL VALVE FOR USE WITH COFFEE MACHINE. INSTALL ONLY COLD WATER BALL VALVE. NOTCH COUNTERTOP BACK-SPLASH. PROVIDE AND INSTALL AN ASSE 1022 BACKFLOW PREVENTOR IN THE CEILING ABOVE AND PIPE DISCHARGE TO THE P-TRAP OF THE ADJACENT SINK.
WO-2	WATER OUTLET BOX	1/2	-.-	2	2	WATER OUTLET BOX	WATER OUTLET BOX: WATER-TITE 82112 WASHING MACHINE OUTLET BOX WITH DRAIN, WATER HAMMER ARRESTER, AND COLD WATER QUARTER TURN BALL VALVE FOR USE WITH COUNTERTOP ICE MACHINE. NOTCH COUNTERTOP BACK-SPLASH AND INSTALL OUTLET BOX DRAIN FLUSH WITH COUNTERTOP. PROVIDE WITH PVC TRAP.

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER.

DI WATER PUMP SCHEDULE

				FLUID			PUMP	ELECTRICAL			
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLOW RATE (GPM)	WORKING FLUID	HEAD LOSS (FT)	CONSTRUCTION	MOTOR SIZE (HP)	RPM	VOLT/PH/HZ	NOTES
P-1	G&L GOULDS 10SV	MECH 001	IN-LINE	20	DI WATER	150	STAINLESS STEEL	2	1750	480/3/60	1,2
P-2	G&L GOULDS 10SV	MECH 001	IN-LINE	20	DI WATER	150	STAINLESS STEEL	2	1750	480/3/60	1,2

1

1. CONTROLS: DI SYSTEM
2. SET SYSTEM PRESSURE TO MAINTAIN 30 PSI IN DECONTAMINATION A464.

PURE WATER SYSTEM SCHEDULE

		STORAGE T-1			DEIONIZERS (2)				ULTRA VIOLET STERILIZERS				
ID	MANUFACTURER	MANUFACTURER	TOTAL FLUID CAPACITY (GAL)	DIA./ HEIGHT (IN)	SYMBOL	CAPACITY (FT^3)	FLOW RATE/ PRESS DROP (GPM/PSI)	SIZE (IN)	SYMBOL	FLOW (GPM)	WATTS	VOLT/PH	NOTES
DI-1	WATER SPECIALTIES	NORWESCO	200	30/72	DI-1 THRU 4	9 @ 3.6	20/23	14	UV-1	30	140	120/1	1,2,3,4

1

1. (QTY 2) 2-BED DI SYSTEMS PIPED IN PARALLEL.
2. SEE DOMESTIC PUMP SCHEDULE FOR REPRESSURE PUMPS.
3. FLOW RATE IS FOR EACH 2-BED TANK ARRANGEMENT.
4. UV STERILIZER SHALL BE SANITRON S2400C.

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PROFESSIONAL ENGINEER
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STATE OF UTAH

Sheet Name
PLUMBING SCHEDULES

Sheet Number
P601

Project Status
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MEDICAL GAS ALARM PANEL SCHEDULE

SYMBOL	STATIONS MONITORED	LOCATION	SERVICES TO BE MONITORED				REMARKS
			OX	MA	MV	WAGD	
MA-1	OPERATING ROOM	NURSE STATION A420	X	X	X	-	1,2
MA-2	OPERATING ROOM	NURSE STATION A420	X	X	X	X	1,2
MA-3	PREP/ RECOVERY	NURSE STATION A420	X	X	X	-	1,2
MA-4	PACU	NURSE STATION A420	X	X	X	-	1,2
MA-5	OPERATING ROOM	NURSE STATION A420	X	X	X	X	1,2

1. COORDINATE EXACT LOCATION WITH ARCHITECTURAL.
2. DEDICATED WIRING FROM SOURCE SIGNALS TO ALARM.

MEDICAL GAS VALVE SCHEDULE

SYMBOL	AREA SERVED	PIPE SIZE				REMARKS
		OX	MA	MV	WAGD	
MV-1	PREP/RECOVERY	1/2"	3/4"	1"	-	1
MV-2	PACU	1/2"	3/4"	1"	-	1
MV-3	OPERATING ROOMS	1/2"	1/2"	1-1/4"	3/4"	1,2

1. WITH GAUGES.
2. WRAP PIPING BEHIND THE VALVE BOX IN THE CONCEALED POCKET, AS REQUIRED TO FIT IN THE AVAILABLE HORIZONTAL DIMENSION OF THE WALL.

MEDICAL GAS OUTLETS SCHEDULE

SYMBOL	ROOM TYPE	# OF OUTLETS				PIPE DROP SIZE TO OUTLET(S)				REMARKS
		OX	MA	MV	WAGD	OX	MA	MV	WAGD	
MO-1	PACU / PREP	1	1	1	-.-	1/2"	1/2"	3/4"	-.-	1,2
MO-2	O.R. CEILING	2	1	4	1	1/2"	1/2"	1"	1"	1,3

UNLESS NOTED OTHERWISE, ALL OUTLETS ARE CHEMETRON-STYLE QUICK-CONNECTS - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS.
OUTLETS IN "MEDICAL EQUIPMENT" ARE SUPPLIED WITH THE PIECE OF EQUIPMENT.

1. PIPE DROP SIZES ARE FOR ONE SET OF OUTLETS.
2. WALL MOUNTED OUTLETS.
3. CEILING MOUNTED DROPPED MED GAS HOSES IN OPERATING ROOM. CEILING MOUNTED OUTLETS REQUIRE DISS CONNECTION TO CONNECT TO THE DROP HOSES. THE HOSES SHALL HAVE QUICK DISCONNECTS ON THE USER END.

HDR

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Sheet Reviewer	KJM

MARK	DATE	DESCRIPTION
1	11/13/20	Addendum #1

Project Number	10173823
Original Issue	11/6/20

PROFESSIONAL ENGINEER
SCOT E. MUIR
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STATE OF UTAH

Sheet Name

MED GAS SCHEDULES

Sheet Number

P602

Project Status

100% Construction Documents- Permit Set

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Memo

This memorandum summarizes the revisions in Addendum #1 dated November 12, 2020:

Sheet EEA001

- USB Receptacle definition changed to clarify hospital grade.

Sheet EDA101

- Keynote #4 added for clarity.

Sheet EPA100

- MHDM1 (existing equipment) shown for the sake of circuiting P-1 and P-2.
- P-1 and P-2 circuiting and disconnects changed per mechanical coordination.

Sheet EPA101

- Duplex receptacles at scrub sinks are removed.
- The scrub sink circuit breaker changed to GFCI.
- Power and data added for PACU Omnicell.
- Keynote 17 added for clarity.
- Disconnects added for sterilizer equipment and washers.
- NEMA types specified for special receptacles.
- Elapsed time clocks keynoted for clarity.
- Waiting room duplex receptacles are no longer hospital grade.
- Steam washer circuits changed to new equipment panel.

Sheet EPA602

- Panel 4EQL2 updated.

Sheet EPA603

- P-1 and P-2 electrical details update per mechanical coordination.
- AHU-3 data updated.

Sheet EPA604

- MHDM1 (existing equipment) schedule added to show P-1 and P-2 connections.
- Steam washer circuits changed to new equipment panel.

Sheet EPA605

- Scrub sink breaker noted as GFCI per changes on plan.
- Power added for PACU Omnicell.
- AHU-3 CB size changed to 20A.
- Panel 4EQL2 size updated.

Sheet EPA606

- Panel sizes corrected.

Sheet ELA101

- TX-1 fixtures removed.
- Prep/Recovery lighting control and spec updated.
- Lighting control wiring shown where missing.
- Scrub sink controls changed to dimming.
- Some lighting shifted per clouding.
- Unused lighting controls removed from shell OR.
- Keynotes added to wall stations.
- Circuiting changed to separate corridors from other life safety lighting for the sake of lighting control.
- Exit light circuiting changed.
- Dimmers for green light control added to OR spaces.
- Designation and specification for OR 2x4 lighting changed to OR-1 (not clouded for clarity).
- Some OR lighting fixtures are tagged to include battery backup.

Sheet ELA601

- TX-1 fixtures removed from the schedule.
- G-4 spec added.
- GF spec changed to OR.
- W-4 spec changed.
- LX4 relay panel schedule moved to this sheet with new relay show.

Sheet ELA602

- Sheet removed.

Sheet EYA101

- Camera added above PACU Omnicell.
- Paging speakers circuited.
- Sound masking speakers added and keynoted.

Sheet FAA101

- Quantity of speaker devices increased per clouding.
- Toggle switches added to all FSDs.
- Pull Station added at nurse station.

Sheet FAA601

- FA Matrix removed.

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

Regards,

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

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
00	**REFERENCE AND LINE SYMBOLS**
01 A5 E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
02 A5 E-201	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
03 A5 E-201	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
ROOM NAME 04 100	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
05 1	KEYNOTE INDICATOR.
06 1	REVISION INDICATOR.
07 CU-1	EQUIPMENT INDICATOR.
08 X-X XMDP	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
09	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING
10	BREAK, ROUND
11 MATCH LINE SEE XX/X-XXX	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.
12	NEW LINE: MEDIUM LINE.
13	HIDDEN FEATURES LINE: HIDDEN, THIN LINE
14	EXISTING TO REMAIN LINE: THIN LINE.
15	DEMOLITION LINE: DASHED, MEDIUM LINE
16	PROPERTY LINE: DASHED, WIDE LINE.
17	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.
18 XXX EF-X	ELECTRICAL EQUIPMENT INDICATOR. "XXX" INDICATES TYPE OF EQUIPMENT OR EQUIPMENT ID. "EF-X" IDENTIFIES MECHANICAL EQUIPMENT BEING SERVED. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
19 X-X 1LA-3	EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "1LA-3" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
00	**WIRING DEVICES**
02	RECEPTACLE, DUPLEX: NEMA 5-20R.
03 A	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
04 C	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
06 DF	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
08 S	RECEPTACLE, DUPLEX, SWITCHED: NEMA 5-20R.
11 WP	RECEPTACLE, DUPLEX, WEATHERPROOF: NEMA 5-20R.
12	RECEPTACLE, DUPLEX, HOSPITAL GRADE: NEMA 5-20R.
13	RECEPTACLE, DUPLEX ON EMERGENCY POWER: NEMA 5-20R.
14	RECEPTACLE, DUPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
15	RECEPTACLE, DUPLEX, CONNECTED TO UPS: NEMA 5-20R.
16	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
17	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE: NEMA 5-20R.
18	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
19 WP	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
20	RECEPTACLE, DUPLEX, RECESSED: NEMA 5-20R.
22	RECEPTACLE, QUADRAPLEX: NEMA 5-20R.
23	RECEPTACLE, QUADRAPLEX ON EMERGENCY POWER: NEMA 5-20R.
24	RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE: NEMA 5-20R.
25	RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
26	RECEPTACLE, QUADRAPLEX, CONNECTED TO UPS: NEMA 5-20R.
27	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
28	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
29	RECEPTACLE, SPECIAL PURPOSE ON EMERGENCY POWER. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
33	MULTI-OUTLET ASSEMBLY: NEMA 5-20R.
34 D	DROP CORD. SEE DETAIL.
36 FB#	FLUSH FLOOR BOX. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
37 PP#	POWER POLE. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
38 PT#	FLUSH FIRE RATED POKE THRU. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
39	SWITCH, DIMMER.
40 X $	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).
41 X $2	SWITCH, DOUBLE POLE ("x" INDICATES FIXTURES CONTROLLED).
42 X $3	SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED).
43 X $4	SWITCH, FOUR-WAY ("x" INDICATES FIXTURES CONTROLLED).
45 $K	SWITCH, KEY OPERATED.
55	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, CONNECTED TO UPS: NEMA 5-20R.
56	RECEPTACLE, SINGLE PLEX, WITH USB OUTLET, HOSPITAL GRADE (1)
57	RECEPTACLE, DULEX, RECESSED, NEMA 5-20R, AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)
58	RECEPTACLE, QUADRAPLEX, RECESSED, NEMA 5-20R, AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)
59	INDICATES A RECEPTACLE IS AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
00	**WIRING METHODS**
01	WIRING.
02	WIRING TURNED UP OR TOWARDS OBSERVER.
03	WIRING TURNED DOWN OR AWAY FROM OBSERVER.
04 A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
05 1 A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
08 — X —	WIRING AND/OR RACEWAY: THIN LINE. WHERE "X" = : CATV = CABLE TELEVISION; CCTV = CLOSED CIRCUIT TELEVISION; FA = FIRE ALARM; FO = FIBER OPTICS; I = INTERCOM; NC = NURSE CALL; P = POWER; RC = RIGID CONDUIT; S = SOUND; T = TELEPHONE; TV = TELEVISION OTHERS AS NOTED IN OTHER SCHEDULES. RACEWAYS AND WIRING SHALL BE SIZED AS SHOWN AND/OR SPECIFIED.
09	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
10	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
11 1	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
12 HC	ADA ACCESS PUSH PLATE
13	JUNCTION BOX.
14 SC	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION.
15 SE	JUNCTION BOX, SECURITY SYSTEM. PROVIDE CONDUIT AND ROUGH-IN PER SECURITY DRAWINGS.
18 PB	PULL BOX.
21	EARTH GROUND (ONE-LINE DIAGRAM).
22 C	JUNCTION BOX, CEILING.
23	LADDER RACK.
25	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.
00	**ELECTRICAL POWER AND DISTRIBUTION**
01	FUSE WITH RATING (ONE-LINE DIAGRAM).
02	DISCONNECT, FUSED (ONE-LINE DIAGRAM).
03	DISCONNECT, NONFUSED (ONE-LINE DIAGRAM).
07	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
08	CIRCUIT BREAKER, MOLDED CASE WITH SHUNT TRIP (ONE-LINE DIAGRAM).
10	CIRCUIT BREAKER, SOLID STATE (ONE-LINE DIAGRAM).
11 GFP	CIRCUIT BREAKER, SOLID STATE WITH GROUND FAULT PROTECTION (ONE-LINE DIAGRAM).
16	TRANSFORMER (ONE-LINE DIAGRAM).
22 "1H"	PANELBOARD (ONE-LINE DIAGRAM).
23 225/3 "1H"	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
24 225/3 "1H"	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
25 225/3 "1H" 60/3	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).
26 225/3 "1H" 25/3	PANELBOARD WITH MAIN LUGS ONLY AND SURGE PROTECTION WITH CIRCUIT BREAKER (ONE-LINE DIAGRAM).
00	**STRUCTURED CABLING IHC**
01	IHC COMMUNICATIONS DEVICE (1 DATA).
02	IHC COMMUNICATIONS DEVICE (1 DATA / 1 ANALOG).
03	IHC COMMUNICATIONS DEVICE (1 DATA WALL PHONE).
04	IHC COMMUNICATIONS DEVICE (2 DATA).
05 3	IHC COMMUNICATIONS DEVICE (3 DATA).
06 4	IHC COMMUNICATIONS DEVICE (4 DATA).
07 6	IHC COMMUNICATIONS DEVICE (6 DATA).
08 M	IHC COMMUNICATIONS DEVICE PHYSIOLOGICAL MONITOR (1 DATA).
09 WAP	IHC COMMUNICATIONS DEVICE WIRELESS ACCESS POINT (2 DATA).
00	**CLOCK**
01 C	CLOCK.
02 C G	CLOCK, SURFACE WITH WIRE GUARD.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
00	**ELECTRICAL POWER AND DISTRIBUTION**
30	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
31	TRANSFER SWITCH (ONE-LINE DIAGRAM).
32 DMM	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
33	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
35 G	GENERATOR, POWER (ONE-LINE DIAGRAM).
36 M	METER.
38 VFC VFD	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM).
41	DISCONNECT SWITCH, FUSED.
42	DISCONNECT SWITCH, UNFUSED.
43	STARTER, COMBINATION WITH DISCONNECT SWITCH.
44	STARTER OR MOTOR CONTROLLER.
45	PUSHBUTTON.
46	PUSHBUTTONS, MOTOR CONTROL.
47	PANELBOARD CABINET, FLUSH MOUNTED.
48	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
49	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
50 DP#__	DISTRIBUTION PANEL OR SWITCHBOARD.
51 LP	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
52	LIGHTING CONTROL STATION.
53	DIMMING ENTRY STATION OR CONTROL STATION, FLUSH MOUNTED.
55 $ST	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
56 75	TRANSFORMER: NUMBER INDICATES kVA.
59	RELAY CONTACT, NORMALLY CLOSED (ONE-LINE DIAGRAM).
60	RELAY CONTACT, NORMALLY OPEN (ONE-LINE DIAGRAM).
76	SPECIALIZED TRANSFER SWITCH (ONE-LINE DIAGRAM).
89 PRM	PHASE ROTATION MONITOR (ONE-LINE DIAGRAM).
00	**LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS)**
01 (W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
02 (W-3)	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
05	EGRESS DIRECTION ARROW (EXIT SIGNS).
07	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
08	EXIT SIGN: SINGLE FACE; WALL MOUNTED
09	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
10	EXIT SIGN: DOUBLE FACE; WALL MOUNTED
00	**LIGHTING CONTROL**
01	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
03	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.
06	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
07	VACANCY SENSOR, DUAL TECHNOLOGY, WALL.
08 P	PHOTOCELL.
09 TC	TIME CLOCK.
10 HR 1	HOUSE RELAY SCHEDULE INDICATOR.
11 101 1-1-1	LITE TOUCH STATION INDICATOR.
14	SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
15	SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
16	DIMMER SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
17	DIMMER SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
18 a,b	LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER "a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS)
19 DC	DIGITAL LIGHTING DIMMING CONTROLLER
20 LC	DIGITAL PLUG LOAD CONTROLLER
23 RC	DIGITAL LIGHTING ROOM CONTROLLER
25 SM	LIGHTING NETWORK SEGMENT MANAGER
26 L X	LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE SCHEDULE / DIAGRAM.
00	**CCTV**
01 P	CCTV CABLE, POWER.
02 V	CCTV CABLE, VIDEO SIGNAL.
03 CCTV	CCTV HEADEND EQUIPMENT.
04 M	CCTV MONITOR.
05	CCTV CAMERA/ENCLOSURE WITH LENS, TYPICAL. SEE SCHEDULE.
06 PTZ	CCTV CAMERA WITH PAN, TILT AND ZOOM.
07 360°	PANNING CAMERA TRANSVERSE ANGLE.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
00	**FIRE ALARM**
01 FSA	FIRE SYSTEM ANNUNCIATOR.
02 FCP	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
07 CM	CONTROL MODULE.
08 MM	MONITOR MODULE.
09 P	FIRE ALARM MANUAL PULL STATION.
10 R	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
11	MAGNETIC DOOR HOLDER.
15	DETECTOR, SMOKE.
19 E	DETECTOR, SMOKE, ELEVATOR RECALL DESIGNATION.
22	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
25	STROBE.
26 75	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
28	ALARM, HORN/STROBE, ONE ASSEMBLY.
29 75	ALARM, HORN/STROBE, ONE ASSEMBLY. SUBSCRIPT INDICATES CANDELA RATING.
30 C	ALARM, CHIME/STROBE, ONE ASSEMBLY.
33 E	SPEAKER, EVACUATION.
34 E	SPEAKER, EVACUATION, COMBINATION STROBE.
35	DETECTOR, FLOW SWITCH: FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
36	DETECTOR, TAMPER SWITCH WITH VALVE: TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
37 SD	SMOKE DAMPER.
38 FSD	FIRE AND SMOKE DAMPER.
42 75	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
43 75	ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
44 75	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
00	**TECHNOLOGY SYSTEMS**
01 X	TECHNOLOGY SYSTEM CABLE. SEE SPECIFIC JOB EQUIPMENT LIST FOR APPLICABLE DESIGNATIONS. EXAMPLES: C = CONTROL CABLE G = GROUND CABLE, 10 AWG, 1 CONDUCTOR, GREEN INSULATED M = MICROPHONE CABLE S = SPEAKER CABLE, 70 VOLT SYSTEM Z = SPEAKER CABLE, 8 OHM SYSTEM
02 S #	SPEAKER, CEILING MOUNTED.
21	EQUIPMENT CABINET.
22	MEDIA CONNECTION PLATE.
23	AUDIO/VISUAL OUTLET.
24	SCREEN, PROJECTION, CEILING MOUNTED.
25	PROJECTOR, CEILING MOUNTED.
26 V	VIDEO CONFERENCING CAMERA.
35 V	VOLUME CONTROL.
55 PA	AMPLIFIER (ONE-LINE DIAGRAM).
56 PB	POWER BRIDGE (VARIZONE DIGITAL PAGING SYSTEM).
57	TERMINATOR (VARIZONE DIGITAL PAGING SYSTEM).
00	**NURSE CALL**
01	JUNCTION BOX.
02	CORRIDOR LIGHT.
03 B	BATHROOM PULL CORD STATION.
04 D	DUTY STATION.
05 E	EMERGENCY ASSISTANCE CALL STATION.
06 E CB	EMERGENCY ASSISTANCE CODE BLUE CALL STATION.
07 P	PATIENT STATION.
08 S	STAFF STATION.
09 NCM	TOUCH SCREEN NURSE CALL MASTER STATION.
10 ZLC	ZONE LIGHT CONTROLLER.
11 CU	NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.
00	**SECURITY**
01 X	SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.
02 ACC	ACCESS CONTROL HEADEND EQUIPMENT.
03 CTR	SECURITY CONTROL PANEL.
04 SEC	INTRUSION DETECTION HEADEND EQUIPMENT.
05 #1	CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.
06 CR	CARD READER.
09 ER	EXIT REQUEST.
10 RL	REMOTE DOOR RELEASE BUTTON.
21 P	PANIC DURESS SWITCH.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
00	**TV DISTRIBUTION**
01 T	TV DISTRIBUTION CABLE, INDIVIDUAL DROPS.
02 TR	TV DISTRIBUTION CABLE, TRUNK.
03 CMB	COMBINER.
04 DC	DIRECTIONAL COUPLER.
05 DA	DISTRIBUTION AMPLIFIER (ONE-LINE DIAGRAM).
06 SPL	SPLITTER (ONE-LINE DIAGRAM).
07	TV OUTLET.
10	TERMINATOR, 75 OHM (TV DISTRIBUTION).

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

1P	SINGLE POLE
1PH	SINGLE-PHASE
1WAY	ONE-WAY
2/C	TWO-CONDUCTOR
2WAY	TWO-WAY
3/C	THREE-CONDUCTOR
3WAY	THREE-WAY
4OUT	QUADRUPLE RECEPTACLE OUTLET
4PDT	FOUR-POLE DOUBLE THROW
4PST	FOUR-POLE SINGLE THROW
4W	FOUR-WIRE
4WAY	FOUR-WAY
A	ABOVE COUNTER
AC	ARMORED CABLE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ALUM	ALUMINUM
AMP	AMPERE
ANN	ANNUNCIATOR
AP	ACCESS POINT (WIRELESS DATA)
AR	AS REQUIRED
ASC	AMPS SHORT CIRCUIT
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAGE
BB XFMR	BUCK-BOOST TRANSFORMER
C	CEILING MOUNTED
CATV	COMMUNITY ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT
CCTV	CLOSED CIRCUIT TELEVISION
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
CND	CONDUIT
CO	CONVENIENCE OUTLET
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	COPPER
dBA	UNIT OF SOUND LEVEL
DPDT	DOUBLE POLE, DOUBLE THROW
DS	DISCONNECT SWITCH
EA	EACH
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRIC NONMETALLIC TUBING
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
EX	EXISTING
F	FURNITURE MOUNTED
FA	FIRE ALARM
FCP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METAL CONDUIT
FOB	FREIGHT ON BOARD
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G	GROUND
GEN	GENERATOR
GFCI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HD	HEAVY DUTY
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HZ	HERTZ
I/O	INPUT/ OUTPUT
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IN/IS	INSULATED/ ISOLATED
IR	INFRARED
J-BOX	JUNCTION BOX
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kVAR	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWh	KILOWATT HOUR
LED	LIGHT EMITTING DIODE
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	METAL CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION
MDP	MAIN DISTRIBUTION PANEL
MG	MOTOR GENERATOR
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTS	MANUAL TRANSFER SWITCH
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIOANL ELECTRICAL MANUFACTURERS ASSOCIATION
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OCP	OVER CURRENT PROTECTION
OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED/ OWNER INSTALLED
OFP	OBTAIN FROM PLANS
OH DR	OVERHEAD (COILING) DOOR
OL	OVERLOAD
PB	PUSHBUTTON
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PTZ	PAN/TILT/ZOOM
QTY	QUANTITY
R	REMOVE
RCP	REFLECTED CEILING PLAN
RMC	RIGID METAL CONDUIT
RNC	RIGID NONMETAL CONDUIT
RPM	REVOLUTIONS PER MINUTE
RR	REMOVE AND RELOCATE
S/S	START/STOP
SCA	SHORT CIRCUIT AMPS
SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
SF	SQUARE FOOT (FEET)
SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
ST	SINGLE THROW
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TL	TWIST LOCK
TP	TELEPHONE POLE
TP	TWISTED PAIR
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP	TYPICAL
UF	UNDERFLOOR
UGND	UNDERGROUND
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPERE
VFC/VFD	VARIABLE FREQUENCY MOTOR CONTROLLER
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER

GENERAL ELECTRICAL NOTES

1. CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

2. OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.
   A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
   B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
   C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE.THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.

3. EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.

4. SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.

5. REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

6. ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

ELECTRICAL SHEET INDEX

EEA001	SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES
EEA100	LEVEL 4 OVERALL PLAN
EEA501	ELECTRICAL DETAILS
EEA701	TYPICAL MOUNTING HEIGHT DETAILS
EEA702	TYPICAL LABELING DETAILS
EDA101	LEVEL 4 ELECTRICAL DEMOLITION PLAN
EP100	BASEMENT POWER PLAN
EPA101	LEVEL 4 POWER PLAN
EPA102	ROOF ELECTRICAL PLAN
EPA601	ONE-LINE DIAGRAM
EPA602	ONE-LINE DIAGRAM
EPA603	EQUIPMENT SCHEDULE
EPA604	PANEL SCHEDULES
EPA605	PANEL SCHEDULES
EPA606	PANEL SCHEDULES
ELA101	LEVEL 4 LIGHTING PLAN
ELA601	INTERIOR LIGHTING FIXTURE SCHEDULE
ETA001	TELECOM SCHEDULES AND NOTES
ETA101	LEVEL 4 TELECOM FLOOR PLAN
ETA501	TELECOM EQUIPMENT RACK ELEVATIONS
ETA502	TELECOM DETAILS
ETA503	TELECOM DETAILS
ETA504	TELECOM EQUIPMENT RACK GROUNDING DETAILS
ETA601	TELECOM RISER DIAGRAMS
EYA101	LEVEL 4 AUXILIARY PLAN
EYA601	AUXILIARY SCHEDULES
FAA101	LEVEL 4 FIRE ALARM PLAN
FAA601	FIRE ALARM RISER

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Sheet Name
SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES

Sheet Number
EEA001

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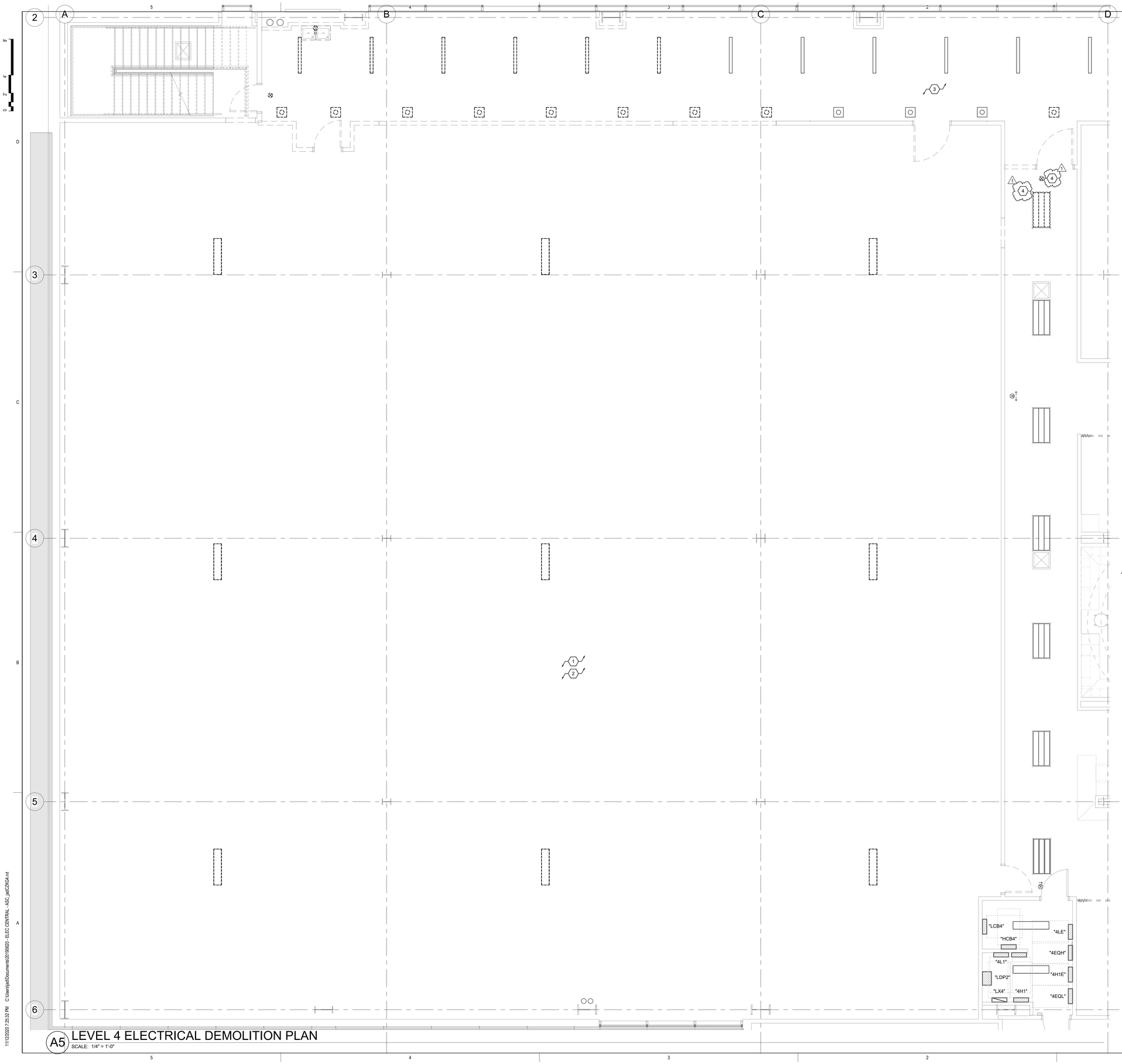

GENERAL SHEET NOTES

1 DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUIT, AND WIRING TO BE REMOVED BACK TO THE PANELBOARD. DENOTE ALL REMOVED CIRCUITS AS "SPARE" ON THE PANEL SCHEDULE KEPT WITH EACH PANELBOARD. TURN ALL CIRCUIT BREAKERS AND SWITCHES PROTECTING CIRCUITS REMOVED DURING DEMOLITION TO THE "OFF" POSITION.

2 REMOVE ALL UNUSED AND ABANDONED ELECTRICAL EQUIPMENT, CONDUIT, AND WIRING. DO NOT LEAVE ABANDONED COMPONENTS IN PLACE UNLESS OTHERWISE NOTED.

3 WHERE THE SOURCE TO OTHER ELECTRICAL ITEMS WHICH ARE TO REMAIN IS INTERRUPTED BY THE REMOVAL OF AN ITEM OR DEVICE, THE CONTRACTOR SHALL INSTALL THE NECESSARY CONDUIT AND WIRE TO RECONNECT IT TO ITS NEAREST OR MOST CONVENIENT ORIGINAL SOURCE.

4 WHERE CIRCUITS OR OTHER ELECTRICAL EQUIPMENT UNRELATED TO THIS WORK PASS THROUGH THE AREA AFFECTED BY DEMOLITION, THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO MAINTAIN THE EXISTING INSTALLATION OR PERFORM THE NECESSARY WORK TO RELOCATE SUCH CIRCUITING OR OTHER ELECTRICAL EQUIPMENT AS NECESSARY TO MAINTAIN CONTINUITY.

5 ALL DEMOLITION WORK SHALL BE FULLY COORDINATED WITH ALL TRADES.

6 REFER TO ARCHITECTURAL PLANS FOR COMPLETE SCOPE OF DEMOLITION WORK. THE CONTRACTOR SHALL SURVEY THE EXISTING CONDITIONS PRIOR TO BIDDING TO INCORPORATE THE SCOPE OF DEMOLITION WORK INTO THE BID.

7 THE BUILDING OWNER RESERVES THE RIGHT TO HAVE SOME OF THE REMOVED MATERIALS STORED ON SITE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING, IN CONJUNCTION WITH THE BUILDING OWNER, THE LIST OF WHAT IS TO BE SALVAGED.

8 ALL DEVICES AND EQUIPMENT SHOWN SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. REFER TO THE LIGHTING PLAN FOR ADDITIONAL INFORMATION ON EXISTING LIGHT FIXTURES TO BE RELOCATED UNDER THIS WORK.

9 DEMOLISH ALL EXISTING DEVICES ON EXISTING WALLS TO BE DEMOLISHED UNLESS SPECIFICALLY NOTED OTHERWISE. REMOVE ALL ASSOCIATED CONDUIT, CONDUCTORS, ETC., BACK TO NEAREST SOURCE TO REMAIN.

10 PRIOR TO COMMENCEMENT OF DEMOLITION WORK, GENERAL CONTRACTOR IS TO COORDINATE WITH FACILITY SYSTEM VENDORS (BMS, DATA, LIGHTING CONTROL, NURSE CALL, PAGING, ETC.) AND INTERMOUNTAIN INFORMATION SERVICES A THREE WORKING DAY PERIOD FOR VENDOR REMOVAL, RELOCATION, AND PROTECTION OF EXISTING VENDOR SYSTEM CABLING WITHIN PROJECT AREA OF WORK. DEMOLITION WORK MAY COMMENCE ONLY AFTER VENDOR COMPLETION OR AS APPROVED BY INTERMOUNTAIN HEALTH CARE PROJECT MANAGER.

11 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.

12 EXISTING CABLING, CONDUIT, ETC., SERVING SPACES NOT DIRECTLY IMPACTED BY THE SCOPE OF WORK MAY BE IMPROPERLY SUPPORTED OR UNSUPPORTED. PROVIDE AN HOURLY TIME AND MATERIALS RATE FOR PROPERLY SUPPORTING ANY EXISTING TO REMAIN CABLING, CONDUIT, ETC., FOUND TO BE IMPROPERLY SUPPORTED OR UNSUPPORTED TO CONFORM WITH THE SUPPORT REQUIREMENTS IN THE PROJECT SPECIFICATIONS.

13 RESUPPORT ANY EXISTING CABLING AND/OR CONDUIT AS NECESSARY TO ELIMINATE CONTACT WITH EXISTING FIRE PROTECTION PIPING AND AVOID CONTACT WITH NEW FIRE PROTECTION LINES.

SHEET KEYNOTES

1 REMOVE ALL ELECTRICAL DEVICES, FIRE ALARM DEVICES, RECEPTACLES, ETC., IN SHELLED SPACE. REMOVE ALL EXISTING BRANCH CIRCUITING BACK TO NEAREST SOURCE.

2 REMOVE ALL LIGHTING CONTROLS, SWITCHES, FIXTURES, DEVICES, ETC., IN SHELLED SPACE. REMOVE ALL EXISTING BRANCH CIRCUITING BACK TO NEAREST SOURCE.

3 RETAIN EXISTING CORRIDOR NORMAL AND LIFE SAFETY LIGHTING BRANCH CIRCUITS FOR EXTENSION TO NEW FIXTURES INSTALLED UNDER NEW WORK.

4 REMOVE LIGHTING FIXTURE WHILE MAINTAINING THE CIRCUIT SERVING REMAINING LIGHTING FIXTURES ON THE SAME CIRCUIT.

A5 LEVEL 4 ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

HDR

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Wayfinding	

Sheet Reviewer	Author

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CARLTON A. GETZ
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STATE OF UTAH

Sheet Name
LEVEL 4 ELECTRICAL DEMOLITION PLAN

Sheet Number
EDA101

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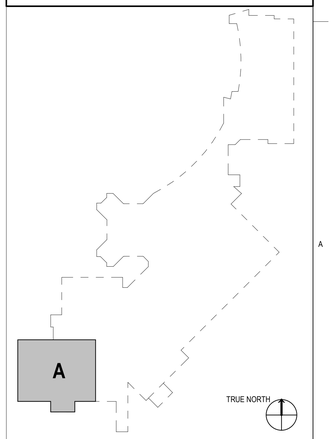
GENERAL SHEET NOTES

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.

2 PROVIDE XHWN CONDUCTORS FOR ALL OPERATING ROOM BRANCH POWER CIRCUITING.

SHEET KEYNOTES

1 EXTEND AND CONNECT TO EXISTING CONVENIENCE RECEPTACLE CIRCUIT SERVING ADJACENT SPACE.



A5 BASEMENT POWER PLAN
SCALE: 1/4" = 1'-0"

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No. 7057518
CARLTON A. GETZ
11/13/2020
STATE OF UTAH

Sheet Name

BASEMENT POWER PLAN

Sheet Number

EP100

Project Status

100% Construction Documents

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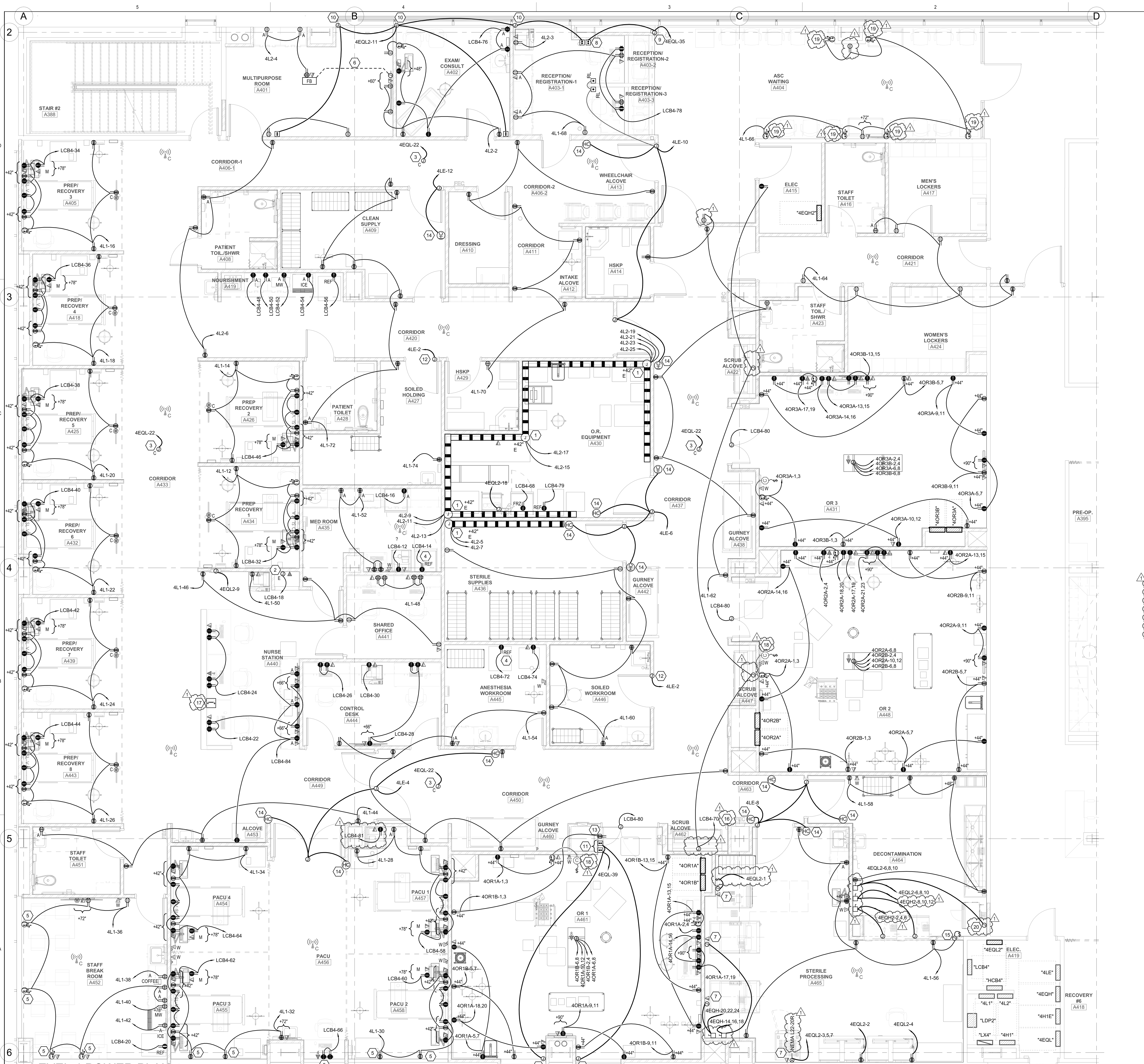


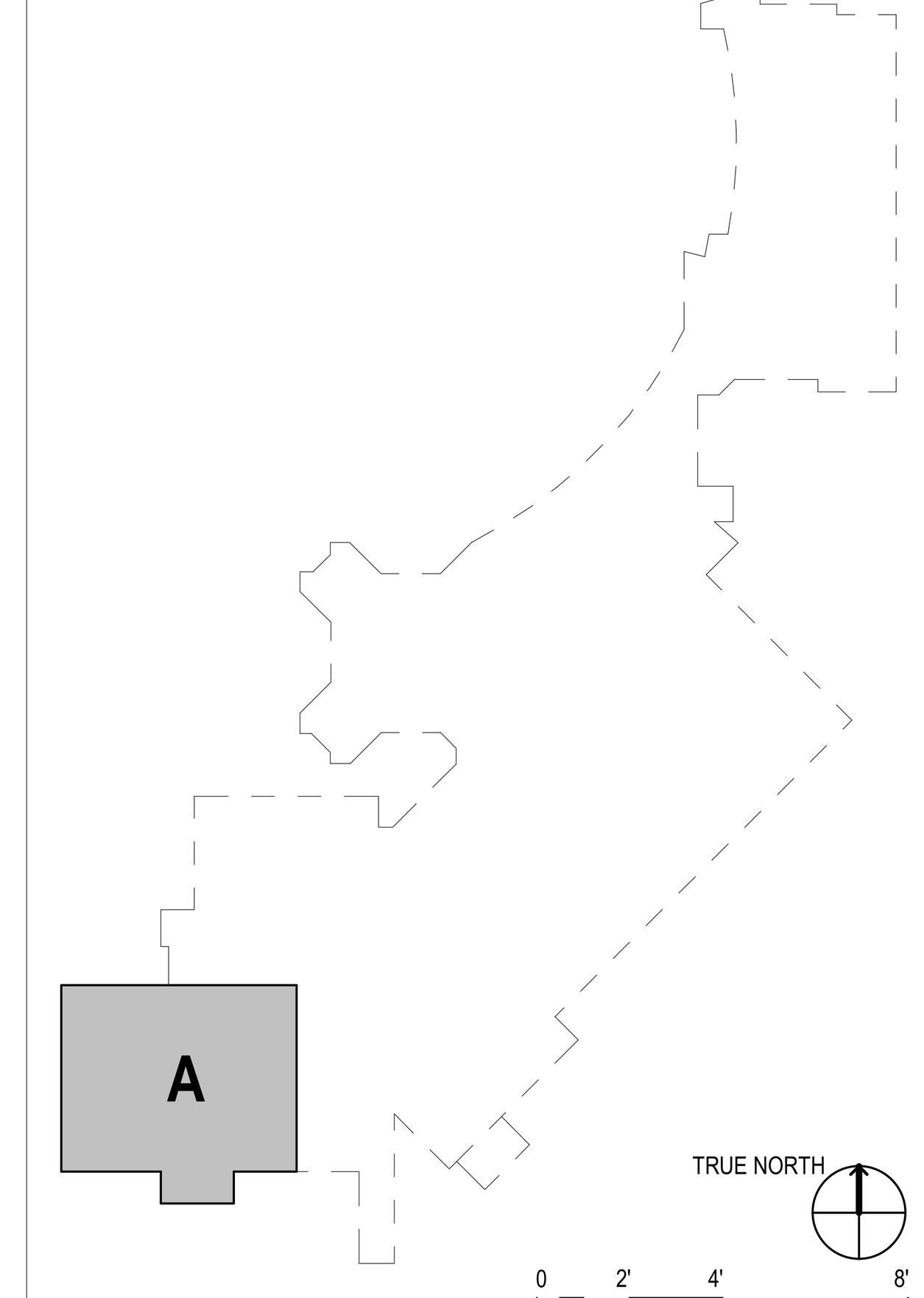
A5 LEVEL 4 POWER PLAN
SCALE: 1/4" = 1'-0"

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.
2. PROVIDE XHWN CONDUCTORS FOR ALL OPERATING ROOM BRANCH POWER CIRCUITING.

SHEET KEYNOTES

1. PROVIDE SINGLE CHANNEL METAL WIREWAY WITH REMOVABLE COVER (WIREMOLD OR EQUIVALENT) WITH DUPLEX RECEPTACLES MOUNTED AT 18" O.C.
2. JUNCTION BOX FOR POWER CONNECTION TO PNEUMATIC TUBE STATION.
3. JUNCTION BOX FOR POWER CONNECTION TO VAV CONTROL POWER. EXTEND BRANCH CIRCUIT TO EACH VAV BOX LOCATIONS.
4. PROVIDE GFCI CIRCUIT BREAKER FOR INDICATED DEVICE.
5. PROVIDE DEVICES MOUNTED IN FURRING WALL UNDER EXTERIOR WINDOW.
6. PROVIDE (1) 1-1/4" CONDUIT FROM FLOOR BOX DEVICE TO JUNCTION BOX MOUNTED AT MONITOR. PROVIDE (1) HDMI CABLE. TERMINATE HDMI CABLE IN FLOOR BOX WITH FEMALE CONNECTOR. PROVIDE HDMI CABLE FROM FLOOR BOX TO TABLE CONNECTION.
7. DATA CONNECTION FOR THE STERILIZER. COORDINATE EXACT LOCATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
8. PROVIDED BY VENDOR WITH AUTOMATIC DOOR TO COORDINATE WITH MANUFACTURER INSTALLATION INSTRUCTIONS.
9. PROVIDE JUNCTION BOX FOR CONNECTION TO AUTOMATIC DOOR. COORDINATE EXACT LOCATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
10. PROVIDE POWER CONNECTION TO AUTOMATIC WINDOWS. COORDINATE EXACT LOCATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
11. PROVIDE SWITCHES FOR AUTOMATIC WINDOWS ABOVE THE CEILING. COORDINATE EXACT LOCATION IN AN ACCESSIBLE LOCATION RELATIVE TO THE OR CEILING ACCESS PANEL.
12. PROVIDE CONNECTION TO SAFE ZONE DOOR CLOSERS. SEE FA PLANS FOR CONTROL MODULE CONNECTION AT DOOR CLOSER.
13. PROVIDE ABOVE CEILING DUPLEX RECEPTACLE. COORDINATE EXACT LOCATION IN AN ACCESSIBLE LOCATION RELATIVE TO THE OR CEILING ACCESS PANEL.
14. PROVIDE TOUCHLESS HAND WAVE DEVICE AS SPECIFIED UNDER THE DOOR HARDWARE FOR ALL HC DEVICES SHOWN.
15. PROVIDE CONNECTION TO AUTO PASS THROUGH WINDOW. COORDINATE EXACT LOCATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
16. PROVIDE GFCI BREAK IN PANEL FOR SCRUB SINK CIRCUIT.
17. PROVIDE ANALOG EMERGENCY PHONE. CONNECT TO EXISTING ANALOG SYSTEM.
18. PROVIDE CONNECTION TO ELAPSED TIME CLOCK.
19. PROVIDE STANDARD USB DUPLEX RECEPTACLE.TG
20. COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT IN THE FIELD



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Sheet Name
LEVEL 4 POWER PLAN

Sheet Number
EPA101

Project Status
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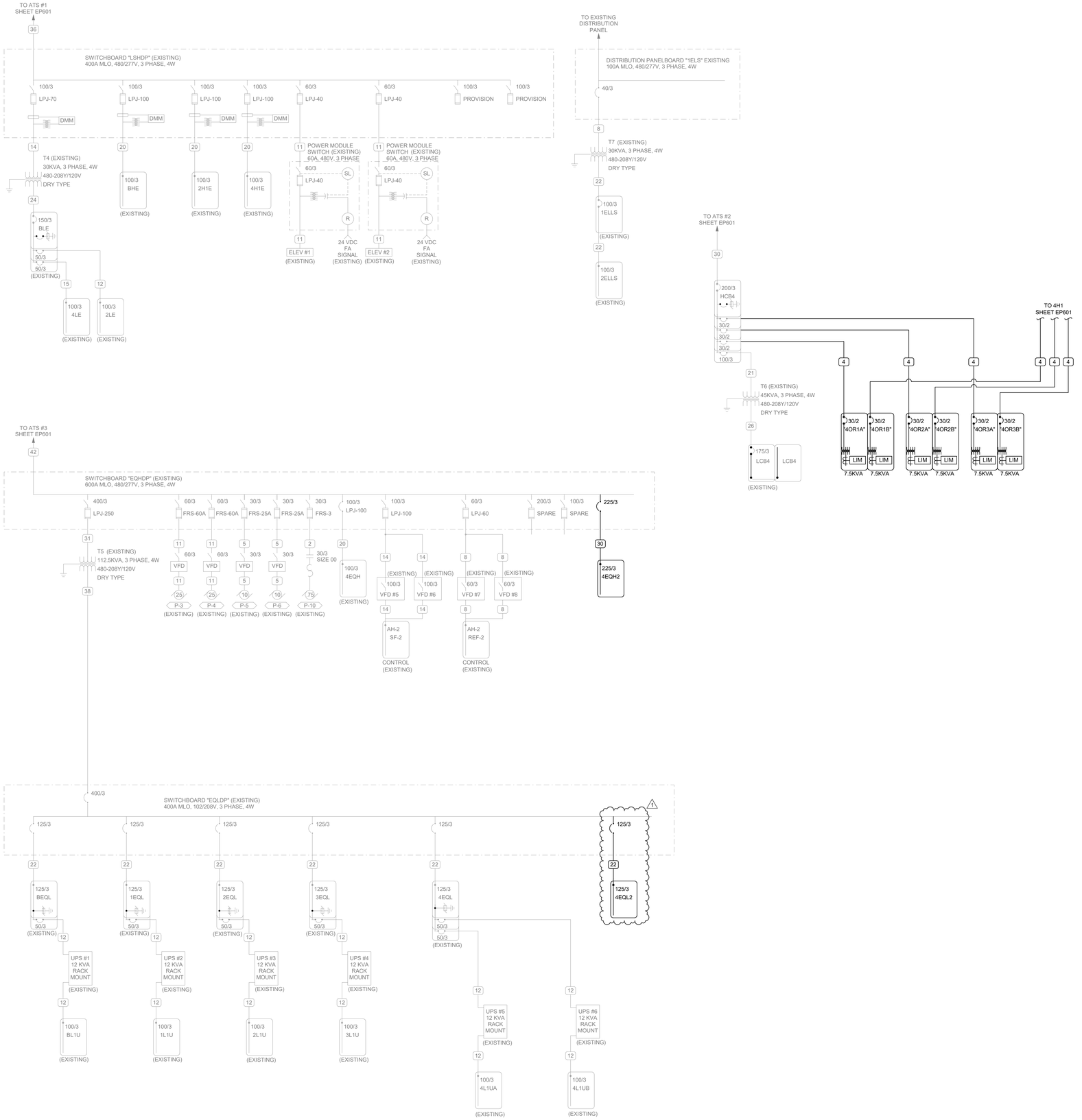

GENERAL SHEET NOTES

1. PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
2. 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.
3. ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO ELECTRICAL SPECIFICATIONS FOR REQUIREMENTS.
4. 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

HDR

NJRA ARCHITECTS

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LOGAN REGIONAL HOSPITAL RECONFIGURATION - SLEEP LAB

550 E 1400 N, Suite R
Logan, UT 84341

Intermountain Healthcare

Project Manager	TERRI SUDBROOK
Project Designer	ERIC MEUB
Project Architect	FRANK PENROSE
Landscape Architect	ARCSITIO
Civil Engineer	GREAT BASIN
Structural Engineer	REAVELEY
Mechanical Engineer	VAN BOERUM & FRANK
Electrical Engineer	SPECTRUM
Plumbing Engineer	VAN BOERUM & FRANK
Interior Designer	RUBY THORP
Equipment Planner	ROBERT GRIESCHE
Wayfinding	
Sheet Reviewer	Author

MARK	DATE	DESCRIPTION
1	11/13/2020	Addendum # 01

Project Number	10173823
Original Issue	11/6/20

LICENSED PROFESSIONAL ENGINEER
No. 7057868
CARLTON A. GETZ
11/13/2020
STATE OF UTAH

Sheet Name

ONE-LINE DIAGRAM

Sheet Number

EPA602

Project Status

100% Construction Documents

11/12/2020 7:26:37 PM C:\Users\jad\Documents\20190920 - ELEC CENTRAL - ASC_jadCZKQ04.rvt

EQUIPMENT SCHEDULE

MARK	QTY	ITEM DESCRIPTION	LOAD DATA							WIRE AND CONDUIT SIZE	OVERCURRENT PROTECTION			DISCONNECT			STARTER DATA															NOTES	MARK
			HP	kW	MCA	FLA	VOLT	PH	Hz		FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	SIZE	SPEED	CTRL VOLT	SELECTOR SWITCH	PUSH BUTTON	PILOT LAMP	NORMALLY OPEN CONTACTS	NORMALLY CLOSED CONTACTS	PHASE FAILURE RELAY	SCHEMATIC REFERENCE	REMOTE CTRL		
AHU-3S	1	AIR HANDLER SUPPLY FANS	(6) 8		59.0	57	480	3	60	CC #14	E	60A C/B	PANEL	Q	VFD	ADJ. TO UNIT	Q	VFD	ADJ. TO UNIT													AHU-3S
AHU-3R	1	AIR HANDLER RETURN FANS	(6) 3		27.0	26	480	3	60	CC #5	E	30A C/B	PANEL	Q	VFD	ADJ. TO UNIT	Q	VFD	ADJ. TO UNIT													AHU-3R
AHU-3	1	AIR HANDLER LIGHTING/OUTLETS		1.6		13.3	120	1	60	CC #1	E	20A C/B	PANEL	Q																		AHU-3
DI-1	4	DOMESTIC PURE WATER SYSTEM		0.14		1.16	120	1	60	CC #1	E	20A C/B	PANEL	E	TOGGLE SWITCH	ADJ. TO UNIT																	DI-1
EF-1	1	EXHAUST FAN	0.5	1.176	12.3	9.8	120	1	60	CC #1	E	15A C/B	PANEL	Q	TOGGLE SWITCH	ADJ. TO UNIT	Q	VFD	ADJ. TO UNIT													EF-1
EF-2	1	EXHAUST FAN	0.334	0.864	9.0	7.2	120	1	60	CC #1	E	15A C/B	PANEL	Q	TOGGLE SWITCH	ADJ. TO UNIT	Q	VFD	ADJ. TO UNIT													EF-2
EF-3	1	EXHAUST FAN	0.75	1.643	9.9	7.9	208	1	60	CC #1	E	15A C/B	PANEL	Q	30A D/S	ADJ. TO UNIT	Q	VFD	ADJ. TO UNIT													EF-3
EF-4	1	EXHAUST FAN	0.334	0.864	9.0	7.2	120	1	60	CC #1	E	15A C/B	PANEL	Q	TOGGLE SWITCH	ADJ. TO UNIT	Q	VFD	ADJ. TO UNIT													EF-4
EF-5	1	EXHAUST FAN	0.5	1.176	12.3	9.8	120	1	60	CC #1	E	15A C/B	PANEL	Q	TOGGLE SWITCH	ADJ. TO UNIT	Q	VFD	ADJ. TO UNIT													EF-5
GFS-3	1	GLYCOL FEED SYSTEM		0.5	5.2	4.2	120	1	60	CC #1	E	20A C/B	PANEL	E	TOGGLE SWITCH	ADJ. TO UNIT																	GFS-3
P-1	1	DOMESTIC PUMP	2	2.8	4.3	3.4	480	3	60	CC #2	E	15A C/B	PANEL	E	30A D/S	ADJ. TO UNIT	E	FVNR	ADJ. TO UNIT													P-1
P-2	1	DOMESTIC PUMP	2	2.8	17.5	14.0	480	3	60	CC #2	E	15A C/B	PANEL	E	30A D/S	ADJ. TO UNIT	E	FVNR	ADJ. TO UNIT													P-2
P-3-1	1	HOT WATER PUMP	2.2		4.6	3.6	480	3	60	CC #2	E	20A C/B	PANEL	E	VFD	ADJ. TO UNIT	E	VFD	ADJ. TO UNIT													P-3-1
P-3-2	1	HOT WATER PUMP	2.2		4.6	3.6	480	3	60	CC #2	E	20A C/B	PANEL	E	VFD	ADJ. TO UNIT	E	VFD	ADJ. TO UNIT													P-3-2
UH-1	1	HOT WATER UNIT HEATER			1.0	0.8	120	1	60	CC #1	E	20A C/B	PANEL	E	TOGGLE SWITCH	ADJ. TO UNIT																	UH-1
WH-1	1	DOMESTIC WATER HEATER		0.5	5.2	4.2	120	1	60	CC #1	E	20A C/B	PANEL	E	TOGGLE SWITCH	ADJ. TO UNIT																	WH-1
WS-1	1	WATER SOFTENER		0.5	5.2	4.2	120	1	60	CC #1	E	20A C/B	PANEL	E	TOGGLE SWITCH	ADJ. TO UNIT																	WS-1

EQUIPMENT SCHEDULE KEY

E	DIVISION 16
Q	FURNISHED WITH THE EQUIPMENT
*	COORDINATE WITH THE DIVISION 15 TEMPERATURE CONTROL INSTALLER
**	AUTOMATIC CONTROL WIRING BY DIVISION 15

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MARK	DATE	DESCRIPTION
1	11/13/2020	Addendum # 01

Project Number	10173823
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LICENSED PROFESSIONAL ENGINEER
No. 7057618
CARLTON A. GETZ
11/13/2020
STATE OF UTAH

Sheet Name

EQUIPMENT SCHEDULE

Sheet Number

EPA603

Project Status

100% Construction Documents

SWITCHBOARD "LDP2"(EXISTING)

VOLTS/PHASE/WIRE:	MAIN SIZE & TYPE:	LOCATION:	NOTES:
120/208V ,3 PH, 4 WIRE	12000 AMPERE MAIN	ELEC. A419	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: (EXISTING)

CKT	OCP		LOAD (kVA)				PHASE LOAD (kVA)		
NO	AMP	POLE	LTG	PWR	CO	PANEL / EQUIPMENT	A	B	C
1	225	3	--	--	--	(EXISTING) 3L3	0.0	0.0	0.0
2	225	3	--	--	--	(EXISTING) 3L2	0.0	0.0	0.0
3	225	3	--	--	--	(EXISTING) 3L1	0.0	0.0	0.0
4	225	3	--	--	--	(EXISTING) 4L1	0.0	0.0	0.0
5	225	3	--	--	--	(EXISTING) 4L2	0.0	0.0	0.0
6	225	3	--	--	--	(EXISTING) SPARE	0.0	0.0	0.0
7	225	3	--	--	--	(EXISTING) SPARE	0.0	0.0	0.0
8	225	3	--	--	--	(EXISTING) SPARE	0.0	0.0	0.0
9	225	3	--	--	--	(EXISTING) SPARE	0.0	0.0	0.0
10	225	3	--	--	--	(EXISTING) SPARE	0.0	0.0	0.0
TOTALS:						CONNECTED kVA PER PHASE	**0.0**	**0.0**	**0.0**
						CONNECTED AMPS PER PHASE	**0**	**0**	**0**
						TOTAL CONNECTED kVA =	**0.0**		
						AVERAGE CONNECTED AMPS PER PHASE =	**0**		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — TOTAL DIVERSIFIED kVA = **0.0**
RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **0**
ALL OTHER LOADS @ 100%: **0.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER...

DISTRIBUTION PANEL "MHDM1"(EXISTING)

VOLTS/PHASE/WIRE:	MAIN SIZE & TYPE:	LOCATION:	NOTES:
480/277 V ,3 PH, 4 WIRE	1200 AMPERE MAIN		

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: (EXISTING)

CKT	OCP		LOAD (kVA)				PHASE LOAD (kVA)		
NO	AMP	POLE	LTG	PWR	CO	PANEL / EQUIPMENT	A	B	C
1	20	1	--	--	--	(EXISTING) P-14	0.0		
2	500	1	--	--	--	(EXISTING) SF-1	0.0		
3	60	1	--	--	--	(EXISTING) PWR MECHANICAL ROOM 01007 P-1	0.0		
4	60	1	--	--	--	(EXISTING) PWR MECHANICAL ROOM 01007 P-2	0.0		
5	20	1	--	--	--	(EXISTING) REF-1	0.0		
6	20	1	--	--	--	(EXISTING) POWER MECHANICAL ROOM 01011	0.0		
7	20	1	--	--	--	(EXISTING) POWER MECHANICAL ROOM 01011	0.0		
8	20	1	--	--	--	(EXISTING)	0.0		
9	20	1	--	--	--	(EXISTING) P-9	0.0		
10	30	1	--	--	--	(EXISTING) P-8	0.0		
11	30	1	--	--	--	(EXISTING) P-7	0.0		
12	15	3	0.0	2.8	0.0	(NEW) P-1	0.9	0.9	0.9
13	15	3	0.0	2.8	0.0	(NEW) P-2	0.9	0.9	0.9
14	--	--	--	--	--	SPACE	0.0		
15	--	--	--	--	--	SPACE	0.0		
16	--	--	--	--	--	SPACE	0.0		
TOTALS:						CONNECTED kVA PER PHASE	**1.9**	**1.9**	**1.9**
						CONNECTED AMPS PER PHASE	**7**	**7**	**7**
						TOTAL CONNECTED kVA =	**5.6**		
						AVERAGE CONNECTED AMPS PER PHASE =	**7**		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — TOTAL DIVERSIFIED kVA = **6.3**
RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **8**
ALL OTHER LOADS @ 100%: **5.6 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER...

PANEL: "4H1"(EXISTING)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS		SURFACE	ELEC. A419	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: (EXISTING)

CKT NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	CO	PWR	LTG	BKR	POLE	AMP	CKT NO
1	20	1		--	--	--	(EXISTING) LTG...	0.0	0.0					(EXISTING) PANEL OR1A	--	--	--		2	30	2
3	20	1		--	--	--	(EXISTING) LTG WAITING 41000			0.0	0.0			--	--	--	--		--	--	4
5	20	1		--	--	--	(EXISTING) LTG HALLWAY 41021					0.0	0.0	(EXISTING) PANEL OR2A	--	--	--		2	30	6
7	20	3		--	--	--	(EXISTING) EF-1	0.0	0.0					--	--	--	--		--	--	8
9	--	--		--	--	--	--			0.0	0.0			(EXISTING) LIGHTING CONTACTOR	--	--	--		1	20	10
11	--	--		--	--	--	--					0.0	0.0	(EXISTING) LIGHTING CONTACTOR	--	--	--		1	20	12
13	20	1		--	--	--	(EXISTING) LTG RM 41300	0.0	0.0					(EXISTING) PANEL OR3A	--	--	--		2	30	14
15	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			--	--	--	--		--	--	16
17	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	18
19	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	20
21	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	22
23	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	24
25	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	26
27	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	28
29	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	30
31	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	32
33	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	34
35	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	36
37	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	38
39	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	40
41	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	42

TOTALS: CONNECTED kVA PER PHASE **0** **0** **0** — CONNECTED TOTAL kVA = **0**
CONNECTED AMPS PER PHASE **0** **0** **0** — AVERAGE CONNECTED AMPS PER PHASE = **0**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **0**
RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **0**
ALL OTHER LOADS @ 100% : **0.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "4EQH"(EXISTING)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS		SURFACE	ELEC. A419	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: (EXISTING)

CKT NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	CO	PWR	LTG	BKR	POLE	AMP	CKT NO
1	20	3		--	--	--	(EXISTING) H-1	0.0	0.0					(EXISTING) CONDENSOR ROOF	--	--	--		3	30	2
3	--	--		--	--	--	--			0.0	0.0			--	--	--	--		--	--	4
5	--	--		--	--	--	--					0.0	0.0	--	--	--	--		--	--	6
7	20	3		--	--	--	(EXISTING) H-2	0.0	0.0					(EXISTING) CONDENSOR ROOF	--	--	--		3	30	8
9	--	--		--	--	--	--			0.0	0.0			--	--	--	--		--	--	10
11	--	--		--	--	--	--					0.0	0.0	--	--	--	--		--	--	12
13	20	3		--	--	--	(EXISTING) H-3	0.0	1.9					STERILIZER	0.0	5.8	0.0		3	20	14
15	--	--		--	--	--	--			0.0	1.9			--	--	--	--		--	--	16
17	--	--		--	--	--	--					0.0	1.9	--	--	--	--		--	--	18
19	20	1		--	--	--	(EXISTING) SPARE	0.0	1.9					STERILIZER	0.0	5.8	0.0		3	20	20
21	20	1		--	--	--	(EXISTING) SPARE			0.0	1.9			--	--	--	--		--	--	22
23	20	1		--	--	--	(EXISTING) SPARE					0.0	1.9	--	--	--	--		--	--	24
25	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	26
27	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	28
29	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	30
31	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	32
33	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	34
35	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	36
37	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	38
39	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	40
41	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	42

TOTALS: CONNECTED kVA PER PHASE **4** **4** **4** — CONNECTED TOTAL kVA = **12**
CONNECTED AMPS PER PHASE **14** **14** **14** — AVERAGE CONNECTED AMPS PER PHASE = **14**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **12**
RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **14**
ALL OTHER LOADS @ 100% : **11.6 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "4EQH2"(NEW)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS		SURFACE	ELEC A415	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 22000

CKT NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	CO	PWR	LTG	BKR	POLE	AMP	CKT NO
1	20	3		0.0	3.0	0.0	P-3-1	1.0	4.7					STEAM WASHER	0.0	14.1	0.0		3	25	2
3	--	--		--	--	--	--			1.0	4.7			--	--	--	--		--	--	4
5	--	--		--	--	--	--					1.0	4.7	--	--	--	--		--	--	6
7	20	3		0.0	3.0	0.0	P-3-2	1.0	4.7					STEAM WASHER	0.0	14.1	0.0		3	25	8
9	--	--		--	--	--	--			1.0	4.7			--	--	--	--		--	--	10
11	--	--		--	--	--	--					1.0	4.7	--	--	--	--		--	--	12
13	60	3		0.0	47.4	0.0	AHU-3 SUPPLY FANS	15.8	0.0					SPARE	--	--	--		1	20	14
15	--	--		--	--	--	--			15.8	0.0			SPARE	--	--	--		1	20	16
17	--	--		--	--	--	--					15.8	0.0	SPARE	--	--	--		1	20	18
19	30	3		0.0	21.6	0.0	AHU-3 RETURN FANS	7.2	0.0					SPARE	--	--	--		1	20	20
21	--	--		--	--	--	--			7.2	0.0			SPARE	--	--	--		1	20	22
23	--	--		--	--	--	--					7.2	0.0	SPARE	--	--	--		1	20	24
25	20	1		--	--	--	SPARE	0.0	0.0					SPARE	--	--	--		1	20	26
27	20	1		--	--	--	SPARE			0.0	0.0			SPARE	--	--	--		1	20	28
29	20	1		--	--	--	SPARE					0.0	0.0	SPARE	--	--	--		1	20	30
31	20	1		--	--	--	SPARE	0.0	0.0					SPARE	--	--	--		1	20	32
33	20	1		--	--	--	SPARE			0.0	0.0			SPARE	--	--	--		1	20	34
35	20	1		--	--	--	SPARE					0.0	0.0	SPARE	--	--	--		1	20	36
37	20	1		--	--	--	SPARE	0.0	0.0					SPARE	--	--	--		1	20	38
39	20	1		--	--	--	SPARE			0.0	0.0			SPARE	--	--	--		1	20	40
41	20	1		--	--	--	SPARE					0.0	0.0	SPARE	--	--	--		1	20	42

TOTALS: CONNECTED kVA PER PHASE **34** **34** **34** — CONNECTED TOTAL kVA = **103**
CONNECTED AMPS PER PHASE **124** **124** **124** — AVERAGE CONNECTED AMPS PER PHASE = **124**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **115**
RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **138**
ALL OTHER LOADS @ 100% : **115.1 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "4L1"(EXISTING)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS		SURFACE	ELEC. A419	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: (EXISTING)

CKT NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	CO	PWR	LTG	BKR	POLE	AMP	CKT NO
1	20	1		--	--	--	(EXISTING) RECOVERY #1 41120	0.0	0.0					(EX) ELEVATOR DISPLAY TV WAITING	--	--	--		1	20	2
3	20	1		--	--	--	(EXISTING) RECOVERY #2 41121			0.0	0.0			(EXISTING) RECOVERY CO	--	--	--		1	20	4
5	20	1		--	--	--	(EXISTING) RECOVERY #3 41122					0.0	0.0	(EXISTING) NURSE CO	--	--	--		1	20	6
7	20	1		--	--	--	(EXISTING) RECOVERY #4 41123	0.0	0.0					(EXISTING) RECOVERY CO	--	--	--		1	20	8
9	20	1		--	--	--	(EXISTING) RCPTN 4100 COPIER			0.0	0.0			(EXISTING) STORAGE CO	--	--	--		1	20	10
11	20	1		--	--	--	(EXISTING) RECEPTION CO					0.0	1.1	CO PREP RECOVERY 1 A434	1.1	0.0	0.0		1	20	12
13	20	1		--	--	--	(EXISTING) CO ?	0.0	1.1					CO PREP RECOVERY 2 A426	1.1	0.0	0.0		1	20	14
15	20	1		--	--	--	(EXISTING) CO WAITING 4100			0.0	1.1			CO PREP/ RECOVERY 3 A405	1.1	0.0	0.0		1	20	16
17	20	1		--	--	--	(EXISTING) RM 41000, 41028,...					0.0	1.1	CO PREP/ RECOVERY 4 A418	1.1	0.0	0.0		1	20	18
19	20	1		--	--	--	(EXISTING) CO HALLWAY 40121	0.0	1.1					CO PREP/ RECOVERY 5 A425	1.1	0.0	0.0		1	20	20
21	20	1		--	--	--	(EXISTING) PWR NRSE STTN...			0.0	1.1			CO PREP/ RECOVERY 6 A432	1.1	0.0	0.0		1	20	22
23	20	1		--	--	--	(EXISTING) PWR NRSE STTN...					0.0	1.1	CO PREP/ RECOVERY 7 A439	1.1	0.0	0.0		1	20	24
25	20	1		--	--	--	(EXISTING) PWR NRSE STTN...	0.0	1.1					CO PREP/ RECOVERY 8 A443	1.1	0.0	0.0		1	20	26
27	20	1		--	--	--	(EXISTING) CO PRE-OP 41113			0.0	0.9			CO PACU 1 A457	0.9	0.0	0.0		1	20	28
29	20	1		--	--	--	(EXISTING) CO PRE-OP 41112					0.0	0.7	CO PACU 2 A458	0.7	0.0	0.0		1	20	30
31	20	1		--	--	--	(EXISTING) CO NRSE STTN 4111	0.0	0.9					CO PACU 3 A455	0.9	0.0	0.0		1	20	32
33	20	1		--	--	--	(EXISTING) CO PRE-OP 41110			0.0	0.7			CO PACU 4 A454	0.7	0.0	0.0		1	20	34
35	20	1		--	--	--	(EXISTING) CO PRE-OP 41009					0.0	1.4	CO STAFF BREAK ROOM A452	1.4	0.0	0.0		1	20	36
37	20	1		--	--	--	(EXISTING) DF PWR RM 41000	0.0	1.4					COFFEE STAFF BREAK ROOM A452	0.0	1.4	0.0		1	20	38
39	20	1		--	--	--	(EX) CO RM 41101, 41008, 41009			0.0	1.7			MW STAFF BREAK ROOM A452	0.0	1.7	0.0		1	20	40
41	20	1		--	--	--	(EX) CO RM 41023, 41103, 41104					0.0	1.3	ICE STAFF BREAK ROOM A452	0.0	1.3	0.0		1	20	42
43	20	1		--	--	--	(EXISTING) CO RM 41010, 41011	0.0	0.7					CO NURSE STATION A440	0.7	0.0	0.0		1	20	44
45	20	1		--	--	--	(EXISTING) PWR HALL 41020 DF			0.0	0.9			CO SHARED OFFICE A441	0.9	0.0	0.0		1	20	46
47	20	1		--	--	--	(EXISTING) CO RM 41025, 41020					0.0	1.4	CO SHARED OFFICE A441	1.4	0.0	0.0		1	20	48
49	20	1		--	--	--	(EXISTING) CO OFFICE 41106	0.0	1.0					PRINTER NURSE STATION A440	0.0	1.0	0.0		1	20	50
51	20	1		--	--	--	(EXISTING) CO OFFICE 41107			0.0	1.1			CO MED ROOM A435	1.1	0.0	0.0		1	20	52
53	20	1		--	--	--	(EXISTING) CO BREAK RM 41108					0.0	1.3	CO ANESTHESIA WORKROOM A445	1.3	0.0	0.0		1	20	54
55	20	1		--	--	--	(EXISTING) CO BREAK RM 41108	0.0	1.4					CO STERILE PROCESSING	1.3	0.1	0.0		1	20	56
57	20	1		--	--	--	(EXISTING) CO BREAK RM 41108			0.0	1.1			CO DECONTAMINATION A464	0.7	0.4	0.0		1	20	58
59	20	1		--	--	--	(EXISTING) CO BREAK RM 41108					0.0	1.3	CO SOILED WORKROOM A446	1.3	0.0	0.0		1	20	60
61	20	1		--	--	--	(EXISTING) CO RM 41109/10/12	0.0	1.4					CO CORRIDOR A437	1.4	0.0	0.0		1	20	62
63	20	1		--	--	--	(EXISTING) PWR RM 41020 ADOOR			0.0	1.4			CO LOCKERS	1.4	0.0	0.0		1	20	64
65	20	1		--	--	--	(EXISTING) CO ENDO CO					0.0	1.4	CO ASC WAITING A404	1.4	0.0	0.0		1	20	66
67	20	1		--	--	--	(EXISTING) CO RM 41117, 41013	0.0	1.3					CO RECEPTION/ REGISTRATION-1...	1.3	0.0	0.0		1	20	68
69	20	1		--	--	--	(EXISTING) ENDO...			0.0	1.4			CO HSKP A429	1.4	0.0	0.0		1	20	70
71	20	1		--	--	--	(EXISTING) SPARE (ON)					0.0	1.4	CO CLEAN SUPPLY A409	1.4	0.0	0.0		1	20	72
73	20	1		--	--	--	(EXISTING) PWR WTNG 410000 DF	0.0	0.2					CO SOILED HOLDING A427	0.2	0.0	0.0		1	20	74
75	20	1		--	--	--	(EXISTING) SPARE (OFF)			0.0	0.0			(EXISTING) SPARE (OFF)	--	--	--		1	20	76
77	20	1		--	--	--	(EXISTING) SPARE (OFF)					0.0	0.0	(EXISTING) SPARE (OFF)	--	--	--		1	20	78
79	20	1		--	--	--	(EXISTING) PRE-OP TV	0.0	0.0					(EXISTING) SPARE (OFF)	--	--	--		1	20	80
81	20	1		--	--	--	(EXISTING) PRE-OP CO			0.0	0.0			(EXISTING) SPARE (OFF)	--	--	--		1	20	82
83	20	1		--	--	--	(EXISTING) PRE-OP CO					0.0	0.0	(EXISTING) SPARE (OFF)	--	--	--		1	20	84

TOTALS: CONNECTED kVA PER PHASE **12** **11** **14** — CONNECTED TOTAL kVA = **36**
CONNECTED AMPS PER PHASE **96** **95** **113** — AVERAGE CONNECTED AMPS PER PHASE = **101**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **26**
RECEPTACLES: **30.6 kVA @ 66% = 20.3 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **73**
ALL OTHER LOADS @ 100% : **5.9 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "4L2"(EXISTING)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS		SURFACE	ELEC. A419	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: (EXISTING)

CKT NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	CO	PWR	LTG	BKR	POLE	AMP	CKT NO
1	20	1		--	--	--	(EXISTING) ROOF CO	0.0	1.1					CO EXAM/ CONSULT A402	1.1	0.0	0.0		1	20	2
3	20	1		0.0	1.0	0.0	PRINTER REGISTRATION-1 A403-1			1.0	0.9			CO MULTIPURPOSE ROOM A401	0.7	0.2	0.0		1	20	4
5	20	1		0.0	0.0	1.0	STERILE SUPPLIES WIREMOLD					1.0	1.1	CO CORRIDOR A420	1.1	0.0	0.0		1	20	6
7	20	1		0.0	0.0	1.1	STERILE SUPPLIES WIREMOLD	1.1	1.1					ROOF CO	1.1	0.0	0.0		1	20	8
9	20	1		0.0	0.0	1.0	OR EQUIP WIREMOLD			1.0	0.0			(EXISTING) SPARE	--	--	--		1	20	10
11	20	1		0.0	0.0	1.1	OR EQUIP WIREMOLD					1.1	0.0	(EXISTING) SPARE	--	--	--		1	20	12
13	20	1		0.0	0.0	1.3	OR EQUIP WIREMOLD	1.3	0.0					(EXISTING) SPARE	--	--	--		1	20	14
15	20	1		0.0	0.0	1.1	OR EQUIP WIREMOLD			1.1	0.0			(EXISTING) SPARE	--	--	--		1	20	16
17	20	1		0.0	0.0	1.3	OR EQUIP WIREMOLD					1.3	0.0	(EXISTING) SPARE	--	--	--		1	20	18
19	20	1		0.0	0.0	0.9	OR EQUIP WIREMOLD	0.9	0.0					(EXISTING) SPARE	--	--	--		1	20	20
21	20	1		0.0	0.0	0.9	OR EQUIP WIREMOLD			0.9	0.0			(EXISTING) SPARE	--	--	--		1	20	22
23	20	1		0.0	0.0	0.8	OR EQUIP WIREMOLD					0.8	0.0	(EXISTING) SPARE	--	--	--		1	20	24
25	20	1		0.0	0.0	0.7	OR EQUIP WIREMOLD	0.7	0.0					(EXISTING) SPARE	--	--	--		1	20	26
27	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	28
29	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	30
31	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	32

TOTALS: CONNECTED kVA PER PHASE **6** **5** **5** — CONNECTED TOTAL kVA = **16**
CONNECTED AMPS PER PHASE **51** **41** **44** — AVERAGE CONNECTED AMPS PER PHASE = **45**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **14**
RECEPTACLES: **15.0 kVA @ 83% = 12.5 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **38**
ALL OTHER LOADS @ 100% : **1.2 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "4LE"(EXISTING)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS		SURFACE	ELEC. A419	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: (EXISTING)

CKT NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	CO	PWR	LTG	BKR	POLE	AMP	CKT NO
1	20	1		--	--	--	(EXISTING) RM 41003/00 FIRE DRS	0.0	0.4					SOLID HOLDING DOOR CLOSERS	0.0	0.4	0.0		1	20	2
3	20	1		--	--	--	(EX) PWR LBY 41003 FIRE DRS			0.0	1.1			AUTO DOORS	0.0	1.1	0.0		1	20	4
5	20	1		--	--	--	(EX) PWR ELEV FIRE DOORS					0.0	1.1	AUTO DOORS	0.0	1.1	0.0		1	20	6
7	20	1		--	--	--	(EX) 3RD FLOOR SMOKE CRTNS	0.0	1.1					AUTO DOORS	0.0	1.1	0.0		1	20	8
9	20	1		--	--	--	(EXISTING) SPARE			0.0	1.1			AUTO DOORS	0.0	1.1	0.0		1	20	10
11	20	1		--	--	--	(EXISTING) 4TH FLOOR FPS DATE					0.0	0.5	AUTO DOORS	0.0	0.5	0.0		1	20	12
13	20	1		--	--	--	(EXISTING) 3RD FLOOR FPS DATE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	14
15	20	1		--	--	--	(EX) ELEV 1-2 SMOKE CRTNS			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	16
17	20	1		--	--	--	(EXISTING) ELEV SHAFT LTG					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	18
19	20	1		--	--	--	(EXISTING) FIRE DOOR	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	20
21	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	22
23	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	24
25	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	26
27	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	28
29	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	30
31	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	32
33	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	34
35	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	36
37	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	38
39	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	40
41	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	42

TOTALS: CONNECTED kVA PER PHASE **1** **2** **2** — CONNECTED TOTAL kVA = **5**
CONNECTED AMPS PER PHASE **12** **18** **14** — AVERAGE CONNECTED AMPS PER PHASE = **15**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **5**
RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **15**
ALL OTHER LOADS @ 100% : **5.3 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

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Sheet Reviewer	Author

MARK	DATE	DESCRIPTION
1	11/13/2020	Addendum # 01

Project Number 10173823
Original Issue 11/6/20

LICENSED PROFESSIONAL ENGINEER No. 7057918 CARLTON A. GETZ 11/13/2020 STATE OF UTAH

Sheet Name
PANEL SCHEDULES

Sheet Number
EPA604

Project Status
100% Construction Documents

PANEL: "4H1E"(EXISTING)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS		SURFACE	ELEC. A419	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: (EXISTING)

CKT NO	OCP AMP	OCP POLE	OCP BKR	LOAD (kVA) LTG	LOAD (kVA) PWR	LOAD (kVA) CO	DESCRIPTION	PHASE LOAD A	A	B	B	C	C	DESCRIPTION	LOAD (kVA) CO	LOAD (kVA) PWR	LOAD (kVA) LTG	OCP BKR	OCP POLE	OCP AMP	CKT NO
1	20	1		--	--	--	(EXISTING) LIGHTING LEVEL 3 EM	0.0	1.8					ASC LS LIGHTING EGRESS (LX4-8)	0.0	0.0	1.8		1	20	2
3	20	1		--	--	--	(EXISTING) LIGHTING WAITING			0.0	1.5			LIGHTING	0.0	0.0	1.5		1	20	4
5	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	6
7	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	8
9	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	10
11	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	12
13	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	14
15	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	16
17	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	18
19	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	20
21	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	22
23	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	24
25	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	26
27	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	28
29	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	30
31	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	32
33	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	34
35	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	36
37	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	38
39	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	40
41	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	42

TOTALS: CONNECTED kVA PER PHASE: A 2, B 1, C 0 — CONNECTED TOTAL kVA = 3
CONNECTED AMPS PER PHASE: A 7, B 6, C 0 — AVERAGE CONNECTED AMPS PER PHASE = 4

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: **3.2 kVA @ 125% = 4.0 kVA** - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **4**
RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **5**
ALL OTHER LOADS @ 100% : **0.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "4EQL"(EXISTING)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	125 AMPERE MAIN LUGS		SURFACE	ELEC. A419	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: (EXISTING)

CKT NO	OCP AMP	OCP POLE	OCP BKR	LOAD (kVA) LTG	LOAD (kVA) PWR	LOAD (kVA) CO	DESCRIPTION	PHASE LOAD A	A	B	B	C	C	DESCRIPTION	LOAD (kVA) CO	LOAD (kVA) PWR	LOAD (kVA) LTG	OCP BKR	OCP POLE	OCP AMP	CKT NO
1	20	2		--	--	--	(EXISTING) AC-7	0.0	0.0					(EXISTING) 4L1UA THRU UPS#5	--	--	--		3	50	2
3	--	--		--	--	--	--			0.0	0.0			--	--	--	--		--	--	4
5	20	2		--	--	--	(EXISTING) AC-8					0.0	0.0	--	--	--	--		--	--	6
7	--	--		--	--	--	--	0.0	0.0					(EXISTING) 4L1UB THRU UPS#6	--	--	--		3	50	8
9	20	1		--	--	--	(EXISTING) 4L2-1 RECEPTACLE			0.0	0.0			--	--	--	--		--	--	10
11	20	1		--	--	--	(EXISTING) EF-3					0.0	0.0	--	--	--	--		--	--	12
13	20	1		--	--	--	(EXISTING) EF-2	0.0	0.0					(EXISTING) EF-4	--	--	--		1	20	14
15	20	1		--	--	--	(EXISTING) VAV CONTROLS			0.0	0.0			(EXISTING) ROOF CO	--	--	--		1	20	16
17	20	1		--	--	--	(EXISTING) OUTLET ROOF					0.0	0.0	(EXISTING) MED GAS	--	--	--		1	20	18
19	30	2		--	--	--	(EXISTING) DATA RACK 1	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	20
21	--	--		--	--	--	--			0.0	0.7			VAV BOXES	0.0	0.7	0.0		1	20	22
23	30	2		--	--	--	(EXISTING) DATA RACK 2					0.0	1.2	EF-1	0.0	1.2	0.0		1	20	24
25	--	--		--	--	--	--	0.0	0.9					EF-2	0.0	0.9	0.0		1	15	26
27	20	1		--	--	--	(EXISTING) SPARE			0.0	0.8			EF-3	0.0	1.6	0.0		2	15	28
29	20	1		--	--	--	(EXISTING) SOILED ROOM					0.0	0.8	--	--	--	--		--	--	30
31	30	2		--	--	--	(EXISTING) DATA RACK 3	0.0	0.8					EF-3	0.0	1.6	0.0		2	15	32
33	--	--		--	--	--	--			0.0	0.8			--	--	--	--		--	--	34
35	20	1		0.0	0.2	0.0	AUTO REGISTRATION DOOR					0.2	0.9	EF-4	0.0	0.9	0.0		1	15	36
37	20	1		0.0	1.6	0.0	AHU-3 LIGHTING/OUTLETS	1.6	0.1					UH-1	0.0	0.1	0.0		1	20	38
39	20	1		0.0	0.4	0.0	OR 1 AUTO WINDO POWER			0.4	1.6			GFS-3	0.0	1.6	0.0		1	20	40
41	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	42

TOTALS: CONNECTED kVA PER PHASE: A 3, B 4, C 3 — CONNECTED TOTAL kVA = 11
CONNECTED AMPS PER PHASE: A 29, B 36, C 25 — AVERAGE CONNECTED AMPS PER PHASE = 30

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **11**
RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **31**
ALL OTHER LOADS @ 100% : **11.2 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "HCB4"(EXISTING)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	200 AMPERE MAIN CB		SURFACE	ELEC. A419	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: (EXISTING)

CKT NO	OCP AMP	OCP POLE	OCP BKR	LOAD (kVA) LTG	LOAD (kVA) PWR	LOAD (kVA) CO	DESCRIPTION	PHASE LOAD A	A	B	B	C	C	DESCRIPTION	LOAD (kVA) CO	LOAD (kVA) PWR	LOAD (kVA) LTG	OCP BKR	OCP POLE	OCP AMP	CKT NO
1	20	1		--	--	--	(EXISTING) LTG PROCEDURE...	0.0	0.0					(EXISTING) PANEL LCB4 THRU T6	--	--	--		3	100	2
3	20	1		--	--	--	(EXISTING) LTG HALL 41119			0.0	0.0			--	--	--	--		--	--	4
5	20	1		--	--	--	(EXISTING) LTG OR3					0.0	0.0	--	--	--	--		--	--	6
7	20	1		1.7	0.0	0.0	OR1 LIGHTING	1.7	0.0					PANEL OR1A & B	--	--	--		2	30	8
9	20	1		1.7	0.0	0.0	OR2 LIGHTING			1.7	0.0			--	--	--	--		--	--	10
11	20	1		2.1	0.0	0.0	LIGHTING					2.1	0.0	PANEL OR2A & B	--	--	--		2	30	12
13	20	1		1.8	0.0	0.0	LIGHTING	1.8	0.0					--	--	--	--		--	--	14
15	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			PANEL OR3A & B	--	--	--		2	30	16
17	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	--	--	--	--		--	--	18
19	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	20
21	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	22
23	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	24
25	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	26
27	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	28
29	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	30
31	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	32
33	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	34
35	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	36
37	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	38
39	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	40
41	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	42

TOTALS: CONNECTED kVA PER PHASE: A 3, B 2, C 2 — CONNECTED TOTAL kVA = 7
CONNECTED AMPS PER PHASE: A 13, B 6, C 8 — AVERAGE CONNECTED AMPS PER PHASE = 9

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: **7.2 kVA @ 125% = 9.0 kVA** - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **9**
RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **11**
ALL OTHER LOADS @ 100% : **0.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "LCB4"(EXISTING)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	175 AMPERE MAIN CB		SURFACE	ELEC. A419	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: (EXISTING)

CKT NO	OCP AMP	OCP POLE	OCP BKR	LOAD (kVA) LTG	LOAD (kVA) PWR	LOAD (kVA) CO	DESCRIPTION	PHASE LOAD A	A	B	B	C	C	DESCRIPTION	LOAD (kVA) CO	LOAD (kVA) PWR	LOAD (kVA) LTG	OCP BKR	OCP POLE	OCP AMP	CKT NO
1	20	1		--	--	--	(EX) CO RECOVERY #1 41120	0.0	0.0					(EXISTING) CO RECOVERY	--	--	--		1	20	2
3	20	1		--	--	--	(EX) CO RECOVERY #2 41121			0.0	0.0			(EXISTING) CO RECOVERY	--	--	--		1	20	4
5	20	1		--	--	--	(EX) CO RECOVERY #3 41122					0.0	0.0	(EXISTING) SPARE (OFF)	--	--	--		1	20	6
7	20	1		--	--	--	(EX) CO RECOVERY #4 41123	0.0	0.0					(EX) SCOPE COMPRESSOR	--	--	--		1	20	8
9	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EX) SCOPE COMPRESSOR	--	--	--		1	20	10
11	20	1		--	--	--	(EXISTING) PANEL CO					0.0	0.5	OMNICELL MED ROOM A435	0.0	0.5	0.0		1	20	12
13	20	1		--	--	--	(EX) PWR NURSE STATION 41117	0.0	1.0					REF MED ROOM A435	0.0	1.0	0.0		1	20	14
15	20	1		--	--	--	(EX) CO NURSE STATION 41117			0.0	0.9			BLANKET WARMER MED ROOM A435	0.0	0.9	0.0		1	20	16
17	20	1		--	--	--	(EX) PWR NURSE STATION 41117					0.0	0.2	PNEUMATIC TUBE STATION	0.0	0.2	0.0		1	20	18
19	20	1		--	--	--	(EXISTING) CO PRE-OP 41113	0.0	0.8					REF STAFF BREAK ROOM A452	0.0	0.8	0.0		1	20	20
21	20	1		--	--	--	(EXISTING) CO PRE-OP 41112			0.0	1.1			CO NURSE STATION A440	1.1	0.0	0.0		1	20	22
23	20	1		--	--	--	(EX) CO NURSE STATION 41111					0.0	1.4	CO NURSE STATION A440	1.4	0.0	0.0		1	20	24
25	20	1		--	--	--	(EXISTING) CO PRE-OP 41113	0.0	0.7					CO CONTROL DESK A444	0.7	0.0	0.0		1	20	26
27	20	1		--	--	--	(EXISTING) CO PRE-OP 41112			0.0	0.9			CO CONTROL DESK A444	0.9	0.0	0.0		1	20	28
29	20	1		--	--	--	(EXISTING) PWR TUBE					0.0	1.0	PRINTER CONTROL DESK A444	0.0	1.0	0.0		1	20	30
31	20	1		--	--	--	(EXISTING) RECEPTION 41100	0.0	1.1					CO PREP RECOVERY 1 A434	1.1	0.0	0.0		1	20	32
33	20	1		--	--	--	(EXISTING) CO INTAKE 41102			0.0	1.1			CO PREP/ RECOVERY 3 A405	1.1	0.0	0.0		1	20	34
35	20	1		--	--	--	(EXISTING) CO BREAK RM FRIDGE					0.0	1.1	CO PREP/ RECOVERY 4 A418	1.1	0.0	0.0		1	20	36
37	20	1		--	--	--	(EX) CO ENDO REPROCESSING	0.0	1.1					CO PREP/ RECOVERY 5 A425	1.1	0.0	0.0		1	20	38
39	20	1		--	--	--	(EX) PWR NURSE STATION 41117			0.0	1.1			CO PREP/ RECOVERY 6 A432	1.1	0.0	0.0		1	20	40
41	20	1		--	--	--	(EX) PWR NURSE STATION 41117					0.0	1.1	CO PREP/ RECOVERY 7 A439	1.1	0.0	0.0		1	20	42
43	20	1		--	--	--	(EXISTING) PWR ENDOSCOPE	0.0	1.1					CO PREP/ RECOVERY 8 A443	1.1	0.0	0.0		1	20	44
45	20	1		--	--	--	(EXISTING) PWR ENDOSCOPE			0.0	1.1			CO PREP RECOVERY 2 A426	1.1	0.0	0.0		1	20	46
47	20	1		--	--	--	(EXISTING) PWR HALL 41025...					0.0	1.0	COFFEE NOURISHMENT A419	0.0	1.0	0.0		1	20	48
49	20	1		--	--	--	(EXISTING) CO WRKSTATION...	0.0	0.2					CO NOURISHMENT A419	0.2	0.0	0.0		1	20	50
51	20	1		--	--	--	(EX) PWR RM 41112, 13, 16 ,17			0.0	1.5			MW NOURISHMENT A419	0.0	1.5	0.0		1	20	52
53	20	1		--	--	--	(EX) PWR RM 41109, 10, 14 ,17					0.0	1.0	ICE MACHINE NOURISHMENT A419	0.0	1.0	0.0		1	20	54
55	20	1		--	--	--	(EX) HANDICAP DOOR OR3	0.0	1.0					POWER NOURISHMENT A419	0.0	1.0	0.0		1	20	56
57	20	1		--	--	--	(EXISTING) NURSE 3 COLUMN CO			0.0	1.4			CO PACU 1 A457	1.4	0.0	0.0		1	20	58
59	20	1		--	--	--	(EXISTING) MED AU					0.0	1.4	CO PACU 2 A458	1.4	0.0	0.0		1	20	60
61	20	1		--	--	--	(EXISTING) SPARE (OFF)	0.0	1.4					CO PACU 3 A455	1.4	0.0	0.0		1	20	62
63	20	1		--	--	--	(EXISTING) NUTRITION CO			0.0	1.4			CO PACU 4 A454	1.4	0.0	0.0		1	20	64
65	20	1		--	--	--	(EXISTING) NUTRITION CO					0.0	0.7	COMPUTER PACU A456	0.7	0.0	0.0		1	20	66
67	20	1		--	--	--	(EXISTING) NUTRITION CO	0.0	1.8					FREEZER O.R. EQUIPMENT A430	0.0	1.8	0.0		1	20	68
69	20	1		--	--	--	(EXISTING) PRE-OP 3			0.0	0.4			CO SCRUB ALCOVES	0.2	0.2	0.0	GFCI	1	20	70
71	20	1		--	--	--	(EXISTING) PRE-OP 3					0.0	1.0	REF ANESTHESIA WORKROOM A445	0.0	1.0	0.0	GFCI	1	20	72
73	20	1		--	--	--	(EXISTING) AC UNIT FAN COIL	0.0	0.5					OMNICELL WORKROOM A445	0.0	0.5	0.0		1	20	74
75	20	1		--	--	--	(EXISTING) WEST STAIR AC FCU			0.0	1.1			CO EXAM/ CONSULT A402	1.1	0.0	0.0		1	20	76
77	20	1		--	--	--	(EXISTING) WARMER					0.0	0.7	CO RECEPTION/ REGISTRATION-1...	0.7	0.0	0.0		1	20	78
79	20	1		0.0	0.2	0.0	REF O.R. EQUIPMENT A430	0.2	0.8					OR DOORS	0.0	0.8	0.0		1	20	80
81	20	1		0.0	0.5	0.0	OMNICELL PACU 1 A457			0.5	0.0			(EXISTING) SPARE (ON)	--	--	--		1	20	82
83	20	1		--	--	--	(EXISTING) SPARE (OFF)					0.0	1.3	CO NURSE STATION A440	1.3	0.0	0.0		1	20	84

TOTALS: CONNECTED kVA PER PHASE: A 12, B 12, C 12 — CONNECTED TOTAL kVA = 36
CONNECTED AMPS PER PHASE: A 97, B 105, C 105 — AVERAGE CONNECTED AMPS PER PHASE = 101

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **30**
RECEPTACLES: **22.7 kVA @ 72% = 16.3 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **84**
ALL OTHER LOADS @ 100% : **13.8 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "BEQL"(EXISTING)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	125 AMPERE MAIN LUGS		SURFACE	EMERGENCY...	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: (EXISTING)

CKT NO	OCP AMP	OCP POLE	OCP BKR	LOAD (kVA) LTG	LOAD (kVA) PWR	LOAD (kVA) CO	DESCRIPTION	PHASE LOAD A	A	B	B	C	C	DESCRIPTION	LOAD (kVA) CO	LOAD (kVA) PWR	LOAD (kVA) LTG	OCP BKR	OCP POLE	OCP AMP	CKT NO
1	20	1		--	--	--	(EXISTING) AH POWER CNTRLS	0.0	0.0					(EXISTING) BLUIU THRU UPS #1	--	--	--		3	50	2
3	20	2		--	--	--	(EXISTING) AC-1,AC-2,AC-3			0.0	0.0			--	--	--	--		--	--	4
5	--	--		--	--	--	--					0.0	0.0	--	--	--	--		--	--	6
7	20	1		--	--	--	(EXISTING) CO EM DISTRIBUTION	0.0	0.0					(EXISTING) PWR ELEV REMOTE...	--	--	--		1	20	8
9	20	1		--	--	--	(EXISTING) ELEV REMOTE RM...			0.0	1.2			EF-5	0.0	1.2	0.0		1	15	10
11	20	1		--	--	--	(EXISTING) SP-2					0.0									12
13	20	1		--	--	--	(EXISTING) RCP-1	0.0													14
15	20	1		--	--	--	(EXISTING) OTHER			0.0	0.6			DI-1 (X4)	0.0	0.6	0.0		1	20	16
17	20	1		--	--	--	(EXISTING) HX-2					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	18
19	20	1		--	--	--	(EXISTING) HX-1	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	20
21	20	1		--	--	--	(EXISTING) HX-8			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	22
23	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	24
25	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	26
27	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	28
29	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	30
31	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	32
33	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	34
35	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	36
37	20	1		--	--	--	(EXISTING) SPARE	0.0	0.0					(EXISTING) SPARE	--	--	--		1	20	38
39	20	1		--	--	--	(EXISTING) SPARE			0.0	0.0			(EXISTING) SPARE	--	--	--		1	20	40
41	20	1		--	--	--	(EXISTING) SPARE					0.0	0.0	(EXISTING) SPARE	--	--	--		1	20	42

TOTALS: CONNECTED kVA PER PHASE: A 0, B 2, C 0 — CONNECTED TOTAL kVA = 2
CONNECTED AMPS PER PHASE: A 0, B 15, C 0 — AVERAGE CONNECTED AMPS PER PHASE = 5

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **2**
RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **6**
ALL OTHER LOADS @ 100% : **2.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "4EQL2"(NEW)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	125 AMPERE MAIN LUGS		SURFACE	ELEC. A419	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 22000

CKT NO	OCP AMP	OCP POLE	OCP BKR	LOAD (kVA) LTG	LOAD (kVA) PWR	LOAD (kVA) CO	DESCRIPTION	PHASE LOAD A	A	B	B	C	C	DESCRIPTION	LOAD (kVA) CO	LOAD (kVA) PWR	LOAD (kVA) LTG	OCP BKR	OCP POLE	OCP AMP	CKT NO
1	20	1		0.0	0.2	0.0	STERILIZER	0.2	0.5					STERILE PROCESS WORK STATION	0.0	0.5	0.0		1	20	2
3	30	3		0.0	5.8	0.0	STERILIZER			1.9	0.5			STERILE PROCESS WORK STATION	0.0	0.5	0.0		1	20	4
5	--	--		--	--	--	--					1.9	0.4	UNITY ULTRASONIC REG	0.0	1.1	0.0		3	20	6
7	--	--		--	--	--	--	1.9	0.4					--	--	--	--		--	--	8
9	20	1		0.0	0.5	0.0	MED GAS ALARM PANEL			0.5	0.4			--	--	--	--		--	--	10
11	20	1		0.0	0.7	0.0	AUTO SHADES					0.7	0.9	FSD	0.0	0.9	0.0		1	20	12
13	20	1		--	--	--	SPARE	0.0	0.9					FSD	0.0	0.9	0.0		1	20	14
15	20	1		--	--	--	SPARE			0.0	0.9			FSD	0.0	0.9	0.0		1	20	16
17	20	1		--	--	--	SPARE					0.0	1.5	CABINATE WARMER	0.0	1.5	0.0		1	20	18
19	20	1		--	--	--	SPARE	0.0	0.0					SPARE	--	--	--		1	20	20
21	20	1		--	--	--	SPARE			0.0	0.0			SPARE	--	--	--		1	20	22
23	20	1		--	--	--	SPARE					0.0	0.0	SPARE	--	--	--		1	20	24
25	20	1		--	--	--	SPARE	0.0	0.0					SPARE	--	--	--		1	20	26
27	20	1		--	--	--	SPARE			0.0	0.0			SPARE	--	--	--		1	20	28
29	20	1		--	--	--	SPARE					0.0	0.0	SPARE	--	--	--		1	20	30
31	20	1		--	--	--	SPARE	0.0	0.0					SPARE	--	--	--		1	20	32
33	20	1		--	--	--	SPARE			0.0	0.0			SPARE	--	--	--		1	20	34
35	20	1		--	--	--	SPARE					0.0	0.0	SPARE	--	--	--		1	20	36
37	20	1		--	--	--	SPARE	0.0	0.0					SPARE	--	--	--		1	20	38
39	20	1		--	--	--	SPARE			0.0	0.0			SPARE	--	--	--		1	20	40
41	20	1		--	--	--	SPARE					0.0	0.0	SPARE	--	--	--		1	20	42

TOTALS: CONNECTED kVA PER PHASE: A 4, B 4, C 5 — CONNECTED TOTAL kVA = 13
CONNECTED AMPS PER PHASE: A 33, B 35, C 45 — AVERAGE CONNECTED AMPS PER PHASE = 37

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **13**
RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **37**
ALL OTHER LOADS @ 100% : **13.5 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

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Equipment Planner	ROBERT GRIESCHE
Wayfinding	
Sheet Reviewer	Author

MARK	DATE	DESCRIPTION
1	11/13/2020	Addendum # 01

Project Number 10173823
Original Issue 11/6/20

LICENSED PROFESSIONAL ENGINEER No. 7057918 CARLTON A. GETZ 11/13/2020 STATE OF UTAH

Sheet Name
PANEL SCHEDULES

Sheet Number
EPA605

Project Status
100% Construction Documents

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PANEL: "4OR1A"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	1 MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 1Ø, 3 WIRE	22" W x 6" D, BOLT-ON	62.5 AMPERE MAIN LUGS	OR 1 A461	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 14000

CKT	OCP		LOAD (kVA)				PHASE LOAD					LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A	A	B	B	DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	20	2	0.0	0.0	0.4	CO OR 1 A461	0.4	0.4			CO OR 1 A461	0.4	0.0	0.0	2	20	2
3	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	4
5	20	2	0.0	0.0	0.4	CO OR 1 A461	0.4	0.3			OR BOOM	0.0	0.5	0.0	2	20	6
7	--	--	--	--	--	--			0.0	0.3	--	--	--	--	--	--	8
9	20	2	0.0	0.0	0.4	CO OR 1 A461	0.4	0.3			OR BOOM	0.0	0.5	0.0	2	20	10
11	--	--	--	--	--	--			0.0	0.3	--	--	--	--	--	--	12
13	20	2	0.0	0.0	0.7	CO OR 1 A461	0.7	0.7			CO OR 1 A461	0.7	0.0	0.0	2	20	14
15	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	16
17	20	2	0.0	0.0	0.5	CO OR 1 A461	0.5	0.4			CO OR 1 A461	0.4	0.0	0.0	2	20	18
19	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	20
21	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	22
23	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	24
25	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	26
27	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	28
29	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	30
31	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	32

TOTALS: CONNECTED kVA PER PHASE **4** **1** — CONNECTED TOTAL kVA = **5**
CONNECTED AMPS PER PHASE **36** **5** — AVERAGE CONNECTED AMPS PER PHASE = **23**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **5**
RECEPTACLES: **3.8 kVA @ 100% = 3.8 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **23**
ALL OTHER LOADS @ 100% : **1.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

Notes:

PANEL: "4OR2A"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	1 MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 1Ø, 3 WIRE	22" W x 6" D, BOLT-ON	62.5 AMPERE MAIN LUGS	OR 2 A448	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 14000

CKT	OCP		LOAD (kVA)				PHASE LOAD					LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A	A	B	B	DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	20	2	0.0	0.0	0.4	CO OR 2 A448	0.4	0.5			CO OR 2 A448	0.5	0.0	0.0	2	20	2
3	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	4
5	20	2	0.0	0.0	0.4	CO OR 2 A448	0.4	0.3			OR BOOM	0.0	0.5	0.0	2	20	6
7	--	--	--	--	--	--			0.0	0.3	--	--	--	--	--	--	8
9	20	2	0.0	0.0	0.4	CO OR 2 A448	0.4	0.3			OR BOOM	0.0	0.5	0.0	2	20	10
11	--	--	--	--	--	--			0.0	0.3	--	--	--	--	--	--	12
13	20	2	0.0	0.0	0.5	CO OR 2 A448	0.5	0.4			CO OR 2 A448	0.4	0.0	0.0	2	20	14
15	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	16
17	20	2	0.0	0.0	0.4	CO OR 2 A448	0.4	0.5			CO OR 2 A448	0.5	0.0	0.0	2	20	18
19	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	20
21	20	2	0.0	0.0	0.5	CO OR 2 A448	0.5	0.0			SPARE	--	--	--	2	20	22
23	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	24
25	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	26
27	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	28
29	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	30
31	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	32

TOTALS: CONNECTED kVA PER PHASE **4** **1** — CONNECTED TOTAL kVA = **5**
CONNECTED AMPS PER PHASE **38** **5** — AVERAGE CONNECTED AMPS PER PHASE = **24**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **5**
RECEPTACLES: **4.0 kVA @ 100% = 4.0 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **24**
ALL OTHER LOADS @ 100% : **1.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

Notes:

PANEL: "4OR3A"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	1 MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 1Ø, 3 WIRE	22" W x 6" D, BOLT-ON	62.5 AMPERE MAIN LUGS	OR 3 A431	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 14000

CKT	OCP		LOAD (kVA)				PHASE LOAD					LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A	A	B	B	DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	20	2	0.0	0.0	0.4	CO OR 3 A431	0.4	0.3			OR BOOM	0.0	0.5	0.0	2	20	2
3	--	--	--	--	--	--			0.0	0.3	--	--	--	--	--	--	4
5	20	2	0.0	0.0	0.4	CO OR 3 A431	0.4	0.3			OR BOOM	0.0	0.5	0.0	2	20	6
7	--	--	--	--	--	--			0.0	0.3	--	--	--	--	--	--	8
9	20	2	0.0	0.0	0.4	CO OR 3 A431	0.4	0.4			CO OR 3 A431	0.4	0.0	0.0	2	20	10
11	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	12
13	20	2	0.0	0.0	0.7	CO OR 3 A431	0.7	0.5			CO OR 3 A431	0.5	0.0	0.0	2	20	14
15	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	16
17	20	2	0.0	0.0	0.5	CO OR 3 A431	0.5	0.0			SPARE	--	--	--	2	20	18
19	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	20
21	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	22
23	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	24
25	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	26
27	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	28
29	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	30
31	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	32

TOTALS: CONNECTED kVA PER PHASE **4** **1** — CONNECTED TOTAL kVA = **4**
CONNECTED AMPS PER PHASE **32** **5** — AVERAGE CONNECTED AMPS PER PHASE = **20**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **4**
RECEPTACLES: **3.2 kVA @ 100% = 3.2 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **20**
ALL OTHER LOADS @ 100% : **1.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

Notes:

PANEL: "4OR1B"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	1 MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 1Ø, 3 WIRE	22" W x 6" D, BOLT-ON	62.5 AMPERE MAIN LUGS	OR 1 A461	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 14000

CKT	OCP		LOAD (kVA)				PHASE LOAD					LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A	A	B	B	DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	20	2	0.0	0.0	0.4	CO OR 1 A461	0.4	0.3			OR BOOM	0.0	0.5	0.0	2	20	2
3	--	--	--	--	--	--			0.0	0.3	--	--	--	--	--	--	4
5	20	2	0.0	0.0	0.4	CO OR 1 A461	0.4	0.3			OR BOOM	0.0	0.5	0.0	2	20	6
7	--	--	--	--	--	--			0.0	0.3	--	--	--	--	--	--	8
9	20	2	0.0	0.0	0.4	CO OR 1 A461	0.4	0.0			SPARE	--	--	--	2	20	10
11	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	12
13	20	2	0.0	0.0	0.4	CO OR 1 A461	0.4	0.0			SPARE	--	--	--	2	20	14
15	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	16
17	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	18
19	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	20
21	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	22
23	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	24
25	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	26
27	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	28
29	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	30
31	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	32

TOTALS: CONNECTED kVA PER PHASE **2** **1** — CONNECTED TOTAL kVA = **2**
CONNECTED AMPS PER PHASE **17** **5** — AVERAGE CONNECTED AMPS PER PHASE = **12**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **2**
RECEPTACLES: **1.4 kVA @ 100% = 1.4 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **12**
ALL OTHER LOADS @ 100% : **1.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

Notes:

PANEL: "4OR2B"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	1 MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 1Ø, 3 WIRE	22" W x 6" D, BOLT-ON	62.5 AMPERE MAIN LUGS	OR 2 A448	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 14000

CKT	OCP		LOAD (kVA)				PHASE LOAD					LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A	A	B	B	DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	20	2	0.0	0.0	0.4	CO OR 2 A448	0.4	0.3			OR BOOM	0.0	0.5	0.0	2	20	2
3	--	--	--	--	--	--			0.0	0.3	--	--	--	--	--	--	4
5	20	2	0.0	0.0	0.4	CO OR 2 A448	0.4	0.3			OR BOOM	0.0	0.5	0.0	2	20	6
7	--	--	--	--	--	--			0.0	0.3	--	--	--	--	--	--	8
9	20	2	0.0	0.0	0.4	CO OR 2 A448	0.4	0.0			SPARE	--	--	--	2	20	10
11	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	12
13	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	14
15	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	16
17	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	18
19	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	20
21	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	22
23	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	24
25	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	26
27	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	28
29	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	30
31	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	32

TOTALS: CONNECTED kVA PER PHASE **2** **1** — CONNECTED TOTAL kVA = **2**
CONNECTED AMPS PER PHASE **14** **5** — AVERAGE CONNECTED AMPS PER PHASE = **10**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **2**
RECEPTACLES: **1.1 kVA @ 100% = 1.1 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **10**
ALL OTHER LOADS @ 100% : **1.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

Notes:

PANEL: "4OR3B"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	1 MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 1Ø, 3 WIRE	22" W x 6" D, BOLT-ON	62.5 AMPERE MAIN LUGS	OR 3 A431	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 14000

CKT	OCP		LOAD (kVA)				PHASE LOAD					LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A	A	B	B	DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	20	2	0.0	0.0	0.4	CO OR 3 A431	0.4	0.3			OR BOOM	0.0	0.5	0.0	2	20	2
3	--	--	--	--	--	--			0.0	0.3	--	--	--	--	--	--	4
5	20	2	0.0	0.0	0.4	CO OR 3 A431	0.4	0.3			OR BOOM	0.0	0.5	0.0	2	20	6
7	--	--	--	--	--	--			0.0	0.3	--	--	--	--	--	--	8
9	20	2	0.0	0.0	0.4	CO OR 3 A431	0.4	0.0			SPARE	--	--	--	2	20	10
11	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	12
13	20	2	0.0	0.0	0.5	CO OR 3 A431	0.5	0.0			SPARE	--	--	--	2	20	14
15	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	16
17	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	18
19	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	20
21	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	22
23	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	24
25	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	26
27	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	28
29	20	2	--	--	--	SPARE	0.0	0.0			SPARE	--	--	--	2	20	30
31	--	--	--	--	--	--			0.0	0.0	--	--	--	--	--	--	32

TOTALS: CONNECTED kVA PER PHASE **2** **1** — CONNECTED TOTAL kVA = **3**
CONNECTED AMPS PER PHASE **18** **5** — AVERAGE CONNECTED AMPS PER PHASE = **13**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **3**
RECEPTACLES: **1.6 kVA @ 100% = 1.6 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **13**
ALL OTHER LOADS @ 100% : **1.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

Notes:

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Intermountain Healthcare

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Wayfinding	
Sheet Reviewer	Author

MARK	DATE	DESCRIPTION
1	11/13/2020	Addendum # 01

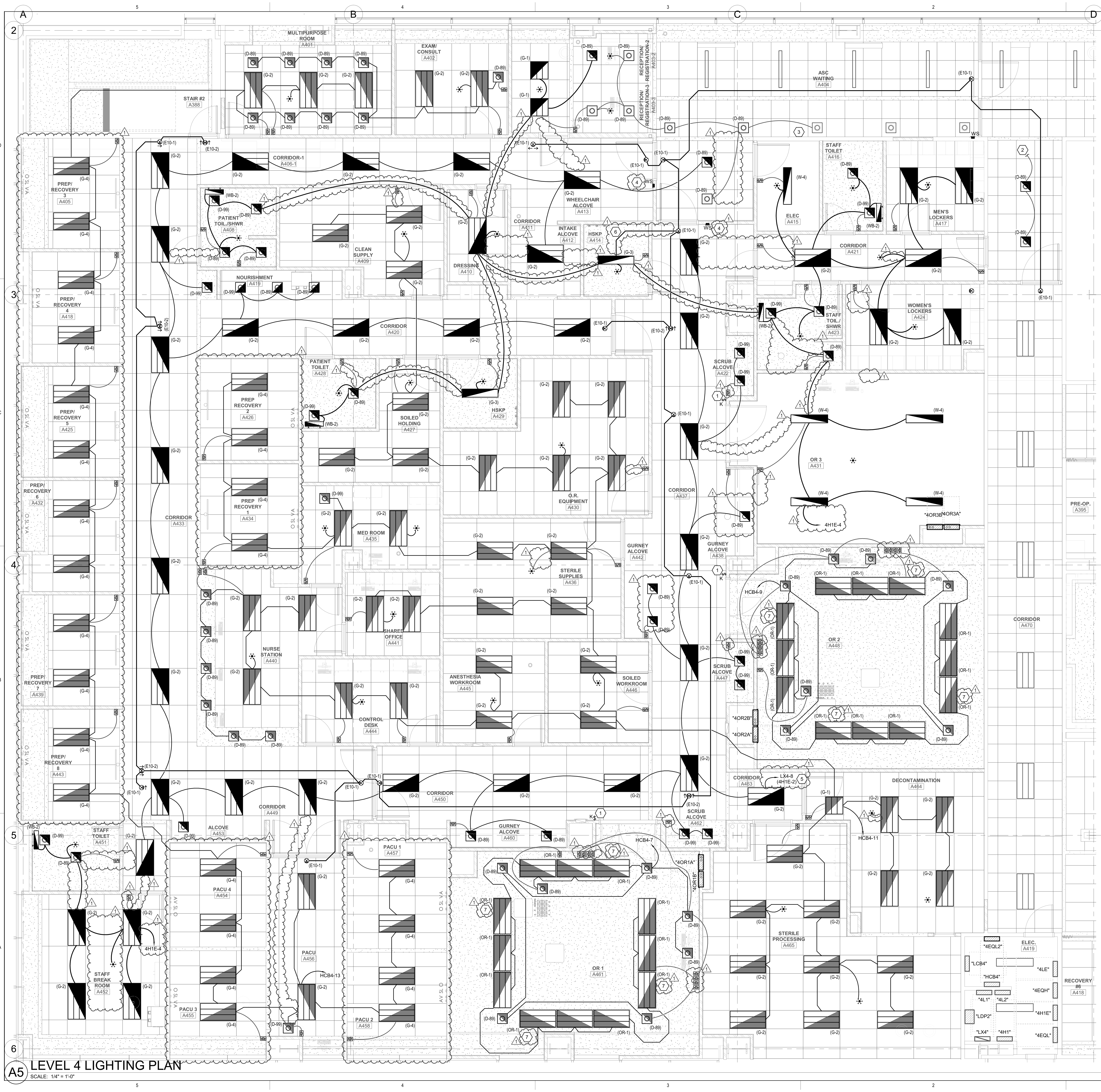
Project Number 10173823
Original Issue 11/6/20

LICENSED PROFESSIONAL ENGINEER
No. 7057918
CARLTON A. GETZ
11/13/2020
STATE OF UTAH
[illegible]

Sheet Name
PANEL SCHEDULES

Sheet Number
EPA606

Project Status
100% Construction Documents



A5 LEVEL 4 LIGHTING PLAN

SCALE: 1/4" = 1'-0"

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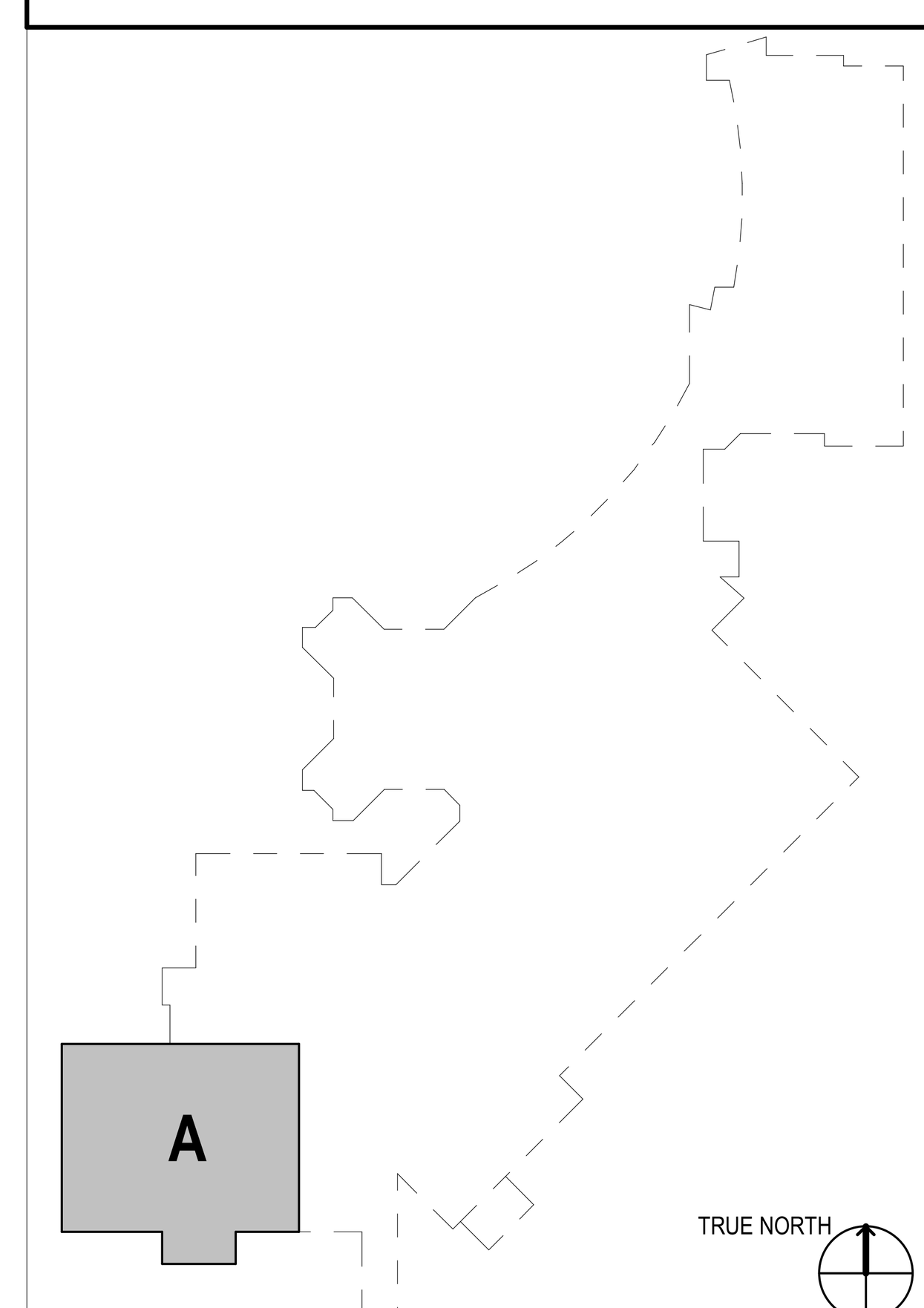
GENERAL SHEET NOTES

SHEET KEYNOTES

1. KEYED TEST SWITCH TO DISCONNECT POWER TO TEST OR LIGHTING FIXTURE BATTERIES.
2. CONNECT TO EXISTING LIFE SAFETY BRANCH CIRCUIT SERVING EXISTING CORRIDOR.
3. EXTEND AND CONNECT EXISTING NORMAL POWER LIGHTING CIRCUIT SERVING EXISTING FIXTURES MAINTAINED DURING DEMOLITION.
4. PROVIDE WALL STATION OVERRIDES TO TURN ON ALL CORRIDOR LIGHTING FIXTURES.
5. CIRCUIT THROUGH EXISTING LIGHTING CONTROL PANEL.
6. CIRCUIT ALL EXIT SIGNS AHEAD OF ALL CONTROLS.
7. PROVIDE LIGHTING FIXTURE WITH INTERNAL BATTERY BACKUP.



0 2' 4' 8'

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Original Issue 11/6/20

LICENSED PROFESSIONAL ENGINEER No. 7057918 CARLTON A. GETZ 11/13/2020 STATE OF UTAH [illegible]

Sheet Name
LEVEL 4 LIGHTING PLAN

Sheet Number
ELA101

Project Status
100% Construction Documents

LIGHTING RELAY PANEL SCHEDULE (EXISTING)

PANEL NAME: LX4
LOCATION: ELEC. A419
SUPPLY VOLTAGE:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

ACCESSORIES: INTEGRAL PROCESSOR
ASTRONOMICAL TIMECLOCK
LAN CONNECTIVIITY AND CONTROL

				CHANNEL CONTROL												CHANNEL CONTROL									
RELAY	DIMMING	PANEL...	DESCRIPTION	A	B	C	D	E	F	LOAD (WATTS)						F	E	D	C	B	A	DESCRIPTION	PANEL...	DIMMING	RELAY
1		--	(EXISTING)							0	0											(EXISTING)	--		2
3		--	(EXISTING)									0	0									(EXISTING)	--		4
5		--	(EXISTING)											0	0							(EXISTING)	--		6
7		--	(EXISTING)							0	1751											ASC LS LIGHTING EGRESS	**4H1E-2**		8

CHANNEL	DIMMING	CHANNEL DESCRIPTION	CHANNEL PROGRAMMING REQUIREMENTS
A	NO	MANUAL ON, AUTO SWEEP OFF	SWEEP OFF AT (10PM), MANUAL ON/OFF VIA LOW VOLTAGE SWITCH**
B	NO	CORRIDOR & COMMON SPACE	TIME OFF (10PM)/TIME ON (6AM)**
C	NO	NIGHT LIGHTS	ALWAYS ON - NIGHT LIGHTING, MANUAL OFF VIA LOW VOLTAGE SWITCH
D	NO	EXTERIOR LIGHTS OUT AT MIDNIGHT	EXTERIOR PHOTOCELL ON/TIME OFF (12AM)
E	NO	EXTERIOR LIGHTING ALL NIGHT	EXTERIOR PHOTOCELL ON/OFF
F	NO	SPARE	PROGRAM AS DIRECTED BY OWNER

GENERAL NOTES:

1. PROGRAMMING OF SYSTEM SHALL COMPLY WITH CURRENT IECC REQUIREMENTS.
2. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER.
3. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION.
4. ALL SPARE RELAYS AND CHANNELS SHALL BE INCLUDED WITH ORIGINAL SYSTEM INSTALLATION.
5. UPON LOSS OF NORMAL POWER, ALL EMERGENCY LIGHTING RELAYS SHALL TURN ON TO 100% UNTIL NORMAL POWER IS RESTORED, THEN GO BACK TO STANDARD MODE.

** CHANNEL SHALL BE PROGRAMMED WITH 10 MINUTE WARNING PRIOR TO TURNING LIGHTS OFF BY BLINKING THE LIGHTS OFF/ON/OFF/ON.

LIGHTING FIXTURE SCHEDULE

NOTE TO BIDDERS: COMPLY WITH THE SPECIFICATIONS.
REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS. THE CATALOG NUMBERS LISTED BELOW HAVE BEEN CAREFULLY PREPARED TO ASSIST BIDDERS IN SELECTING PRODUCTS TO ACHIEVE THE DESIGN CONCEPT, HOWEVER, PRIOR TO BIDDING, EACH MANUFACTURER SHALL COMPARE THE CATALOG NUMBERS SHOWN WITH THE DESCRIPTION AND REQUIREMENTS ON THE DRAWINGS, AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. SPECIFICALLY INCLUDED IN THIS EVALUATION SHALL BE THE VERIFYING OF PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. NO ALLOWANCE OR REDRESS WILL BE ALLOWED FOR DISCREPANCIES THAT WERE NOT REPORTED TO THE ARCHITECT/ENGINEER IN TIME FOR CORRECTION OR CLARIFICATION BEFORE THE BID. THE REPORTING OF ANY AMBIGUITY IS THE RESPONSIBILITY OF THE BIDDER. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. SUBMITTAL PACKAGE SHALL INCLUDE LAMP MANUFACTURER AND CATALOG NUMBER ON EACH FIXTURE SHEET. ON ALL PENDANT MOUNTED FIXTURES, PROVIDE A SECOND SET OF PENDANTS, OF A DIFFERENT LENGTH, AS DIRECTED BY THE ARCHITECT/ENGINEER, PROVIDED AND INSTALLED AT NO ADDITIONAL CHARGE. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED. CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. UNIVERSAL VOLTAGE (120/277)
BALLASTS REQUIRED UNLESS NOTED OTHERWISE. DIMENSION SEQUENCE = (LENGTH X WIDTH X DEPTH) IN INCHES.

SYMBOL	MARK	FIXTURE CHARACTERISTICS BODY / AIR / MOUNTING / DOOR LENS/LOUVER/REFLECTOR/OTHER	LAMP	WATTS	VOLTS	MANUFACTURER	1 NOTES
	D	RECESSED LED: SOLID STATE LED LIGHT ENGINE; CLASS P THERMALLY PROTECTED 0-10V SOLID STATE DIMMING DRIVER; MINUMUM SYSTEM RATED LIFE 50,000 HOURS AT 70% OUTPUT; UL LISTED FOR THROUGH-BRANCH WIRING AND DAMP LOCATION; LIGHT ENGINE, DRIVER, AND JUNCTION BOX ACCESSIBLE FROM ABOVE OR BELOW CEILING; SELF-FLANGING TRIM.					
	D-89	6" APERTURE: COMFORT CLEAR DIFFUSER; 4000 K COLOR TEMP LED; ~1500 LUMENS; 30 INPUT WATTS; 277V; 0-10V SOLID STATE DIMMING DRIVER; LENS; WHITE FLANGE.	LED	30W	277V	LIGHTOLIER PRESCOLITE GOTHAM PORTFOLIO	C6L1520DL-40K-M-CCL-W / CW-C6L15-N-2
	D-99	7" APERTURE: COMFORT CLEAR DIFFUSER; 4000 K COLOR TEMP LED; ~3500 LUMENS; 60 INPUT WATTS; 120V; 0-10V SOLID STATE DIMMING DRIVER; LENS; WHITE FLANGE.	LED	60W	277V	LIGHTOLIER PRESCOLITE GOTHAM PORTFOLIO	C7L1520-DL-40K-W-CCD-W / C7L35-N-2
	E10	EXIT SIGN: METAL HOUSING; CEILING MOUNT, SEE DRAWINGS; ARROWS PER PLANS; LED LAMPS; A/C ONLY; EDGE LIGHTED CLEAR LENS; GREEN LETTERS ON CLEAR BACKGROUND. MUST MEET NFPA ILLUMINATION STANDARDS. UNITS SHOWN ARE CEILING MOUNT MODELS. CONTRACTOR TO PROVIDE MATCHING LOW LEVEL WALL MOUNTED UNITS WHERE REQUIRED.					
	E10-1	SINGLE FACE:	LED	20W	120/277V	DUAL-LITE MCPHILBEN EELP LITHONIA ISOLITE EVENLITE CHLORIDE LIGHTOLIER	LESCGWA 45VL-1-GC-XX EDG 1 GC W EM LRP W 1 GC XX 120/277 EUN-AC-G-1C SOV-AC-G-1C-WH-XX-XX STDLX-X-1-GC-X LEAC1GCX
	E10-2	DUAL FACE:	LED	20W	120/277V	DUAL-LITE MCPHILBEN EELP LITHONIA ISOLITE EVENLITE CHLORIDE	LECDGWA 45VL-2-GM-XX EDG 2 GC W EM LRP W 2 GMR XX 120/277 EUN-AC-G-2M SOV-AC-G-2M-WH-XX-XX STDLX-X-2-GC-X
	G	DECORATIVE LENSED TROFFERS: RECESSED; ACRYLIC PRISMATIC LENS; EARTHQUAKE CLIPS, LED DRIVER 0-10 VOLT DIMMING DRIVER WHERE INDICATED IN PRODUCT NUMBER.					
	G-1	RECESSED LED FIXTURE, 2X2, ACRYLIC DIFFUSER, ~3300 LUMENS, MULTI VOLT, 4000K, GRID MOUNTED MINIMUM 82 CRI	LED	27W	UNV	LITHONIA	2VTL2-33L-ADP-EZ1-LP840
	G-2	RECESSED LED FIXTURE, 2X4, ACRYLIC DIFFUSER, ~4800 LUMENS, MULTI VOLT, 4000K, MOUNTING PER PLAN, MINIMUM 82 CRI	LED	40W	UNV	LITHONIA	2VTL4-48L-ADP-EZ1-LP840
	G-3	RECESSED LED FIXTURE, 1X4, ACRYLIC DIFFUSER, ~4800 LUMENS, MULTI VOLT, 4000K, GYP MOUNTED, DIMMING, MINIMUM 82 CRI	LED	45W	UNV	LITHONIA	VTL4-48L-ADP-EZ1-LP840-DGA14
	G-4	RECESSED LED FLAT PANEL FIXTURE, 2X4, GRID MOUNTED, 3500K, MULTI VOLT, ~6700 LUMENS, MINIMUM 80 CRI	LED	60W	UNV	LITHONIA LUMENOPTIX ARCHIPELAGO	EPANL-2X4-6800LM-80CRI-35K-MIN1-ZT-MVOLT LUZ LPNL24-60-35-A1
	OR	ASYMMETRIC LENSED TROFFER; RECESSED FRO GYP CEILING; ACRYLIC PRISMATIC LENS; EARTHQUAKE CLIPS; LED DRIVER; 0-10 VOTL DIMMING WHERE INDICATED IN PRODUCT NUMBER					
	OR-1	RECESSED LED FIXTURE, 2X4, ACRYLIC DIFFUSER, ~14,000 LUMENS, 4000K, GYP MOUNTED, MINIMUM 80 CRI, WHITE AND GREEN LIGHT DUAL FIXTURE WITH SEPARATE CONTROL AND OPERATION, MIN 80 CRI	LED	115W	277V	KENALL EMERGENCY: KENALL	M4SEDI-24-43G/100L-40K9-DCC-277-2F-2H -ASYM-RM M4SEDI-24-43G/100L-40K9-DCC-277-2F-2H -ASYM-RM-LEL
	UC	LED UNDERCABINET LIGHT: LOW PROFILE 1" HIGH X 1-3/4"DEEP X LENGTH AS NOTED; EXTRUDED ALUMINUM BODY; EXTRUDED CLEAR, POLYCARBONATE LENS; INTERNAL LED DRIVER; EFFICACY GREATER THAN 40 LUMENS PER WATT; 50,000 HOUR RATED LAMP LIFE; 2700 - 3000 DEG KELVIN COLOR TEMPERATURE, WIRING COMPARTMENT; FLUSH END. CONNECTORS FOR ROW INSTALLATION (CONNECTORS ARE NOT INCLUDED IN THE FIXTURE SCHEDULE CATALOG NUMBERS - CONNECTOR CONFIGURATION TO BE FIELD DETERMINED BY CONTRACTOR PRIOR TO PURCHASE).					
	UC-99	SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE, LED, 19" NOMINAL LENGTH, GLOSSY WHITE, ~345 LUMENS MINIMUM	LED	6W	120V	ALKCO WAC LIGHTING KENALL HEALTHCARE	LINCS100-L19-120-WHG
	W	LOW PROFILE WRAPAROUND: SURFACE MOUNTED SUITABLE FOR MOUNTING ON LOW DENSITY CEILINGS; CURVED ACRYLIC PRISMATIC DIFFUSER; WHITE ENAMEL ENDPLATES; LED.					
	W-4	WIDE BODY WRAPAROUND; LED; ~5000 LUMENS	LED	45W	277/120V	KENALL	MLRS12-48-F-MW-PP-1-45L40K-DCC-1-DV
	WP	SERFACE MOUNTED WET LISTED EMERGENCY LED FIXTURE; UL 924; FUILLY GASKETED CORROSION-RESISTANCT ENCLOSURE; SOLID STATE CHARGING CIRCUIT; SEALED MOMENTARY PUSH-TO-TEST SWITCH					
	WB-2	WALL MOUNTED 24" LINEAR FIXTURE; UP AND DOWN LIGHTING; DUST COVER; LED; TOTAL LENGTH AS INDICATED ON PLANS AS EACH LOCATION	LED	20W	277V	LIGHTOLIER ARCH LIGHTING NULITE	MQ26-L-A-K-F-F-X-1-2-E-W HP2W-2-IHP900-4000K-WD-ILED-DHP900-4000K-EXT-DLED-1CKT-UNV-AL RW2-2-B-09-L40-DIM-1C-FRF-SV-4'-DUST COVER

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Wayfinding	
Sheet Reviewer	Author

MARK	DATE	DESCRIPTION
1	11/13/2020	Addendum # 01

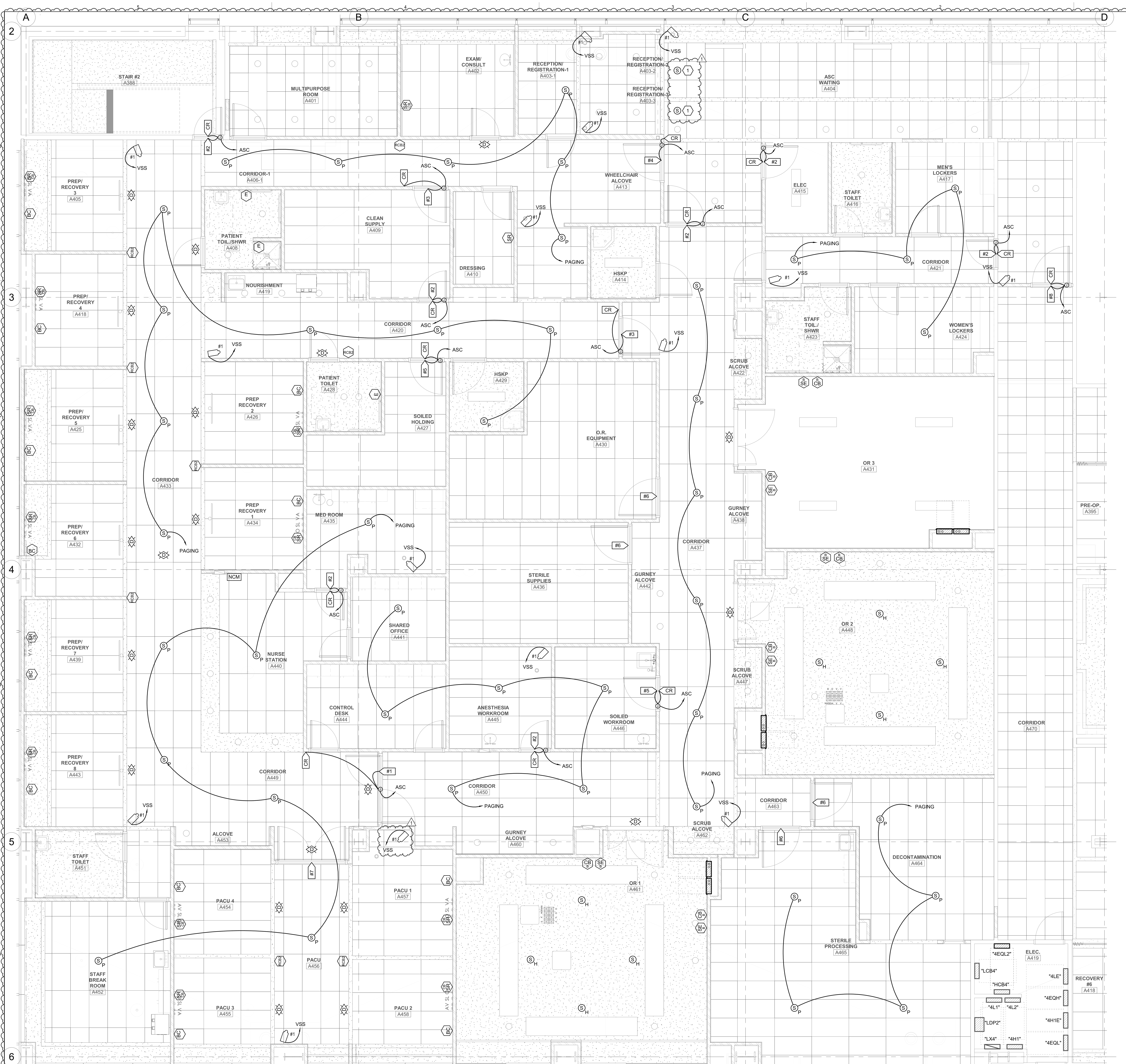
Project Number	10173823
Original Issue	11/6/20

LICENSED PROFESSIONAL ENGINEER No. 7057848 CARLTON A. GETZ 11/13/2020 STATE OF UTAH

Sheet Name
INTERIOR LIGHTING FIXTURE SCHEDULE

Sheet Number
ELA601

Project Status
100% Construction Documents



A5 LEVEL 4 AUXILIARY PLAN
SCALE: 1/4" = 1'-0"

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GENERAL SHEET NOTES

SHEET KEYNOTES

1 PROVIDE SOUND MASKING SPEAKER. CONNECT TO EXISTING SOUND MASKING SYSTEM.

HDR

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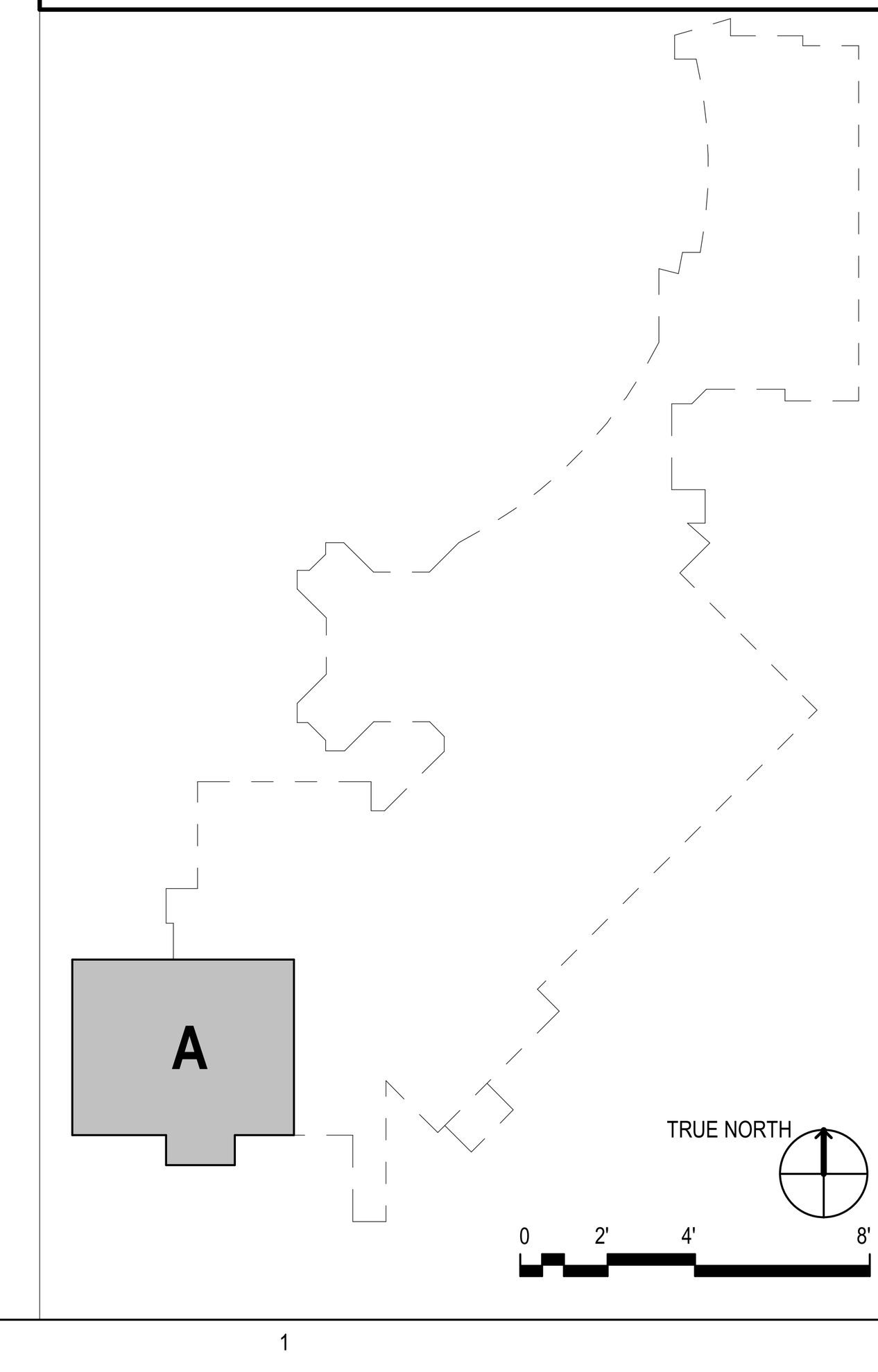


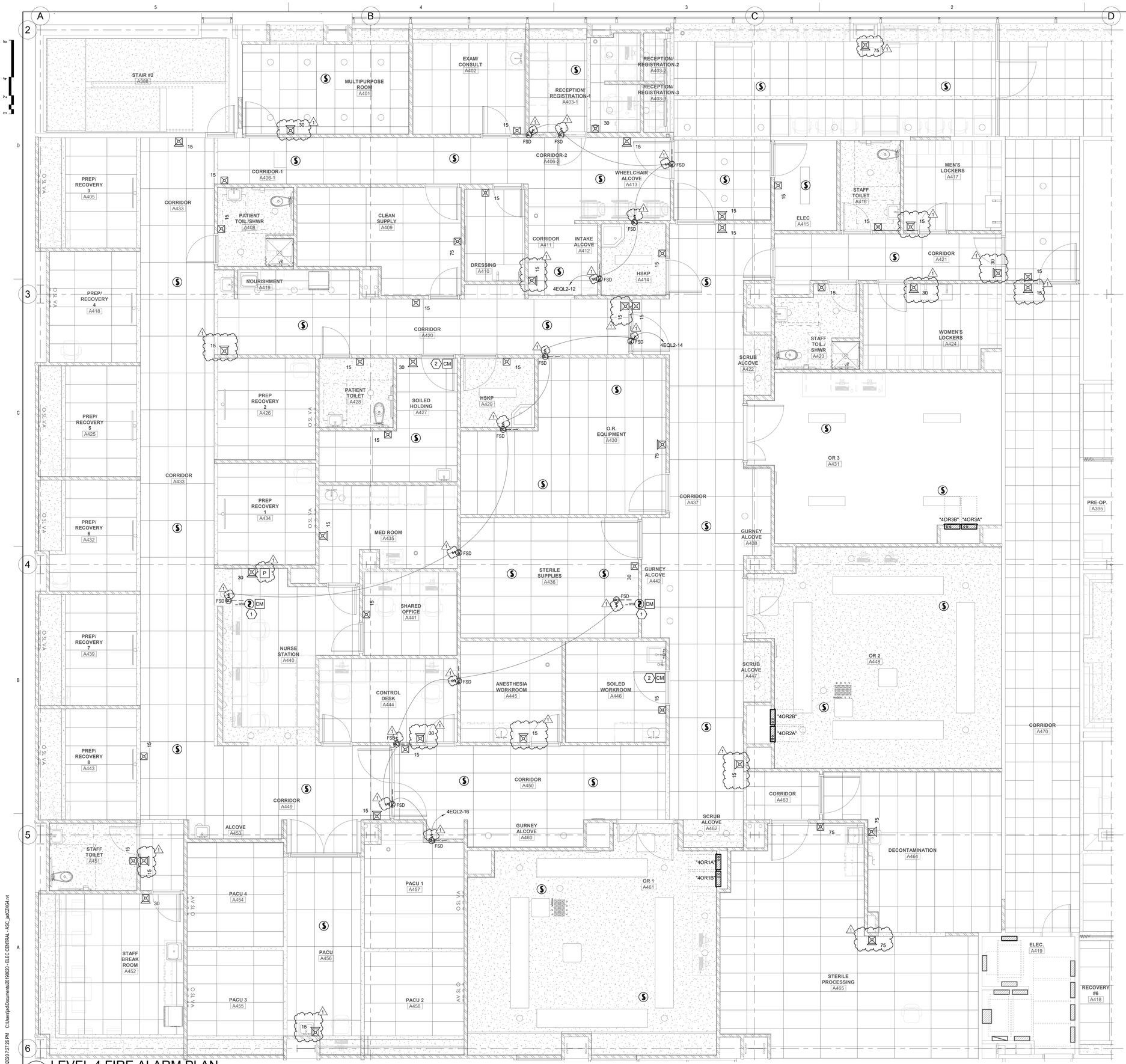
Project Number	10173823
Original Issue	11/6/20

LICENSED PROFESSIONAL ENGINEER
No. 7057918
CARLTON A. GETZ
11/13/2020
STATE OF UTAH

Sheet Name
LEVEL 4 AUXILIARY PLAN

Sheet Number
EYA101

Project Status
100% Construction Documents



A5 LEVEL 4 FIRE ALARM PLAN

SCALE: 1/4" = 1'-0"

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GENERAL SHEET NOTES

SHEET KEYNOTES

1 PROVIDE DUCT SMOKE DETECTOR FOR ROOFTOP AHU. PROVIDE WITH CONTROL MODULE FOR AHU SHUT OFF.

2 PROVIDE CONTROL MODULE AND CONNECTION TO SAFE ZONE DOOR CLOSER. SEE POWER PLAN FOR POWER CONNECTION.

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LICENSED PROFESSIONAL ENGINEER No. 7705276 Colton A. GETZ 11/13/2020 STATE OF UTAH

Sheet Name

LEVEL 4 FIRE ALARM PLAN

Sheet Number

FAA101

Project Status

100% Construction Documents

WIRING SCHEDULE

FUNCTION	< 500'	< 1000'	1000'-3000'	> 3000'
ADDRESSABLE LOOP	#18 TSP	#18 TSP	#16 TSP	#14 TSP
POWER LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN
SPARE LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN
STROBE HORNS	#14 THWN	#14 THWN	#12 THWN	#10 THWN
MAGNETIC DOOR HOLDER	#12 THWN	#10 THWN		
SPEAKERS	#16 TSP	#16 TSP	#14 TSP	#14 TSP

NOTIFICATION SCHEDULE

SYMBOL	STROBE SIZE	COVERAGE	AVERAGE CURRENT	MAXIMUM PER CIRCUIT ALONE
15	15 CD	20'x20'	.085A	17
30	30 CD	30'x30'	.135A	11
75	75 CD	40'x40'	.200A	7
110	110 CD	50'x50'	.225A	6

GENERAL SHEET NOTES

1 PLANS ARE BASED UPON 99 MONITOR AND CONTROL DEVICES PER ADDRESSABLE LOOP. OTHER CONFIGURATIONS ARE ACCEPTABLE SUBJECT TO CONTRACTOR ALLOWING FOR INCREASED WIRING REQUIREMENTS AND SUBMITTAL DRAWINGS SHOWING NEW WIRING CONFIGURATION. MAXIMUM INITIAL DEVICES PER LOOP SHALL NOT EXCEED 75% MAXIMUM ALLOWABLE.

2 PLANS ARE BASED UPON THE WIRING SCHEDULE SHOWN. WHERE MANUFACTURER'S REQUIREMENTS EXCEED REQUIREMENTS SHOWN, INCLUDE ADDITIONAL ASSOCIATED COSTS AND SUBMITTAL DRAWINGS INDICATING NEW WIRING CONFIGURATION.

3 PLANS ARE BASED UPON 2 AMPS AT 24 VDC, NOT TO EXCEED 75% (1.50 AMPS AVAILABLE), POWER SUPPLY CAPACITY PER NOTIFICATION CIRCUIT. NOTIFICATION DEVICE LOADS ARE BASED UPON NOTIFICATION DEVICE SCHEDULE SHOWN. INCLUDE ADDITIONAL ASSOCIATED COSTS FOR INCREASED WIRING AND POWER SUPPLY CAPACITY IF LOADS OF ACTUAL DEVICES PROVIDED EXCEED CIRCUIT CAPACITY, OR IF LOAD OUTPUT OF ACTUAL POWER SUPPLIES PROVIDED IS SIZED DIFFERENTLY. PROVIDE SUBMITTAL DRAWINGS SHOWING NEW WIRING CONFIGURATION.

4 FLOW AND TAMPER CONFIGURATION BASED UPON FIRE SPRINKLER DESIGN CONCEPT. FIELD VERIFY ACTUAL REQUIREMENTS. INCLUDE ANY ADDITIONAL MONITOR MODULES REQUIRED BY ACTUAL DESIGN REQUIREMENTS.

5 HEAT DETECTORS WHEN INSTALLED IN ELEVATOR SHAFTS OR MECHANICAL ROOMS FOR ELEVATOR SHUT DOWN SHALL HAVE HEAT DETECTOR WITH LOWER RESPONSE TIME INDEX THAN SPRINKLER HEAD.

6 PROVIDE POWER SUPPLY CAPACITY AS REQUIRED FOR DOOR HOLD OPENS SHOWN.

7 BATTERY CAPACITY TO BE ADEQUATE TO OPERATE 15 MINUTES AFTER 24 HOURS PLUS 25% SPARE CAPACITY.

8 VFD REQUIRES TWO RELAYS, ONE FOR SMOKE CONTROL, ONE SPARE.

9 RUN SPARE LOOPS IN SAME CONDUIT. DO NOT EXCEED 40% AREA FILL OF CONDUITS.

10 PROVIDE DUCT DETECTORS FOR SUPPLY AND RETURN AIR SYSTEMS OVER 2000 CFM. INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS AND PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.

11 PROVIDE DUCT DETECTOR AT EACH FLOOR, PRIOR TO CONNECTION TO A COMMON RETURN AND PRIOR TO RECIRCULATING OR FRESH AIR INLET IN AIR RETURN SYSTEMS OVER 15,000 CFM CAPACITY AND SERVING MORE THAN ONE STORY.

12 PROVIDE MANUAL PULL STATIONS IN BOILER ROOMS AND KITCHENS.

13 PROVIDE ONE YEAR OFF SITE MONITORING INCLUDING ALL INTERFACE DEVICES AND MONITORING CHARGES. COORDINATE WITH BUILDING OWNER'S OFF SITE MONITORING COMPANY.

14 LOCATE SMOKE DETECTORS MINIMUM 3' FROM AIR SUPPLY AND RETURN LOUVERS.

15 PROVIDE SYNCHRONIZED STROBES THROUGHOUT FACILITY. PROVIDE SYNCHRONIZATION MODULES PER MANUFACTURER'S REQUIREMENTS. INCLUDE ADDITIONAL WIRING, IF REQUIRED.

16 INITIATING AND INDICATING LOOPS SHALL NOT SERVE AN AREA OF GREATER THAN 22,500 SQUARE FEET. PROVIDE ADDITIONAL LOOPS FOR AREAS LARGER THAN THIS.

17 ALL OUTPUT DEVICES ARE DESIGNED ON SYSTEMS WITH 2 AMP POWER SUPPLY.

18 HORN/STROBE BASED ON 120 MILLIAMPS, DOOR HOLDERS BASED ON 70 MILLIAMPS.

19 INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS AND PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.

HDR

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MARK	DATE	DESCRIPTION
1	11/13/2020	Addendum # 01

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LICENSED PROFESSIONAL ENGINEER
No. 7057618
CARLTON A. GETZ
11/13/2020
STATE OF UTAH

Sheet Name

FIRE ALARM RISER

Sheet Number

FAA601

Project Status

100% Construction Documents