Date: 11.21.23

Amendment Number 1

Project: General Contractors Request for Bids Issued by Salt Lake County Project: Clark Planetarium Annex Renovation Project #: CLP104381 Closing date: December 11, 2023

This amendment represents clarifications and additions to the Request for Bids (RFB) and any of its respective parts. These changes are to be considered part of said documents as though they were included in the original documents. Any terms or conditions of said documents not modified by Amendment No. 1 shall remain unchanged.

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1) The Architect's Addendum No. 1 dated November 20, 2023 is incorporated into the bid documents.

End of Amendment No. 1



ARCHITECTURAL NEXUS, Inc archnexus.com SALT LAKE CITY 2505 East Parleys Way Salt Lake City, Utah 84109 T 801.924.5000

SACRAMENTO 930 R Street Sacramento, California 95811 T 916.443.5911

ISSUE DATE:	November 20, 2023	RESPONSE TO:	City Review Comments
PROJECT:	Clark Planetarium New Space Tenant Improvement 110 S 400 W Salt Lake City, UT 84101		
OWNER:	Salt Lake County 2001 S State St Suite S3-120 Salt Lake City, UT 84114	ARCHITECT'S PROJECT #:	22070
PAGES:	2 + Attachments (42) = 44 Replaced attached drawings: G001, G002, G0 M601, PD100, P101, P501, P601, E-001, E-00 Replace attached specifications: 08 7100		1, A101, A251, M001, M101, M102, M501,

This Addendum forms a part of the Contract Documents and modifies the original Bid Documents as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification. This Addendum includes all attachments noted, included herein by reference.

DRAWING AMENDMENTS:

D1. Architectural:

X

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<u>ltem #</u>	Sheet(s)	Drawing(s)	Amendment
D1.01	G001	Inspections, Deferred Submittals,	 Code Required Inspections, REVISE: Removed "structural drawings" from note. Deferred Submittals, REVISE: Modified note to include instructions regarding a pre-construction meeting with the inspector. General Notes, ADD: Note stating a full set of approved plans and documents is required to be on site. REPLACE sheet in its entirety
D1.02	G002	Sheet Index	 Sheet Index, ADD: M102 – Mechanical Roof Plan REPLACE sheet in its entirety
D1.03	G050	Nonstructural Component Checklist	 REVISE: Added MEP Seismic Support as a deferred submittal and removed general notes. REPLACE sheet in its entirety
D1.04	G101	Entirety of Sheet	 REVISE: Modified egress (including existing door hardware) and occupancy to reflect changes in exiting and furniture layout. Modified General Code Requirements to reflect changes to the number of sinks in new space. REPLACE sheet in its entirety
D1.05	G501	S31 Wall Type	 REVISE: Wall rating and height should be field verified to match existing REPLACE sheet in its entirety
D1.06	G701	B5	1. REVISE: Toilet room signage REPLACE sheet in its entirety
D1.07	A101	A5	 ADD: Keynote 02:EH1 REVISE: Dimension for west toilet room wall ADD: Existing doors and (E) Hallway room tag ADD: Sinks within individual toilet rooms REVISE: Wall type S6 Keynote Legend, ADD: Keynote 10:ES1, REVISE: Bid Alt #1 tag name REPLACE sheet in its entirety

 Item #
 Sheet(s)
 Drawing(s)
 Amendment

 D1.08
 A251
 Door Schedule, A3, B5, C5
 1. Door Schedule, ADD: Hardware Group numbers, Door 100A

 2.
 A3, REVISE: Include new sink
 3. ADD: B5

 4.
 C5, REVISE: Dimensions for door widths REPLACE sheet in its entirety

D2. Mechanical:

See the attached narrative and drawings from Engineer (2 sheets).

D3. Electrical:

See the attached narrative and drawings from Engineer (1 sheet).

SPECIFICATION AMENDMENTS:

Description: ADD = red text

S1. SECTION 08 7100 - DOOR HARDWARE, REVISED, REPLACE in its entirety

Rachel Sittler, Project Architect	801.856.8722	rsittler@archnexus.com	11.20.2023
Name	Phone	Email	Date

CODE REQUIRED INSPECTIONS

NOTE: THE FOLLOWING DOCUMENTS ARE REQUIRED BEFORE A CERTIFICATE OF OCCUPANCY IS ISSUED. ADDITIONAL DOCUMENTS MAY BE REQUIRED AS THE WORK PROGRESSES.

- CODE INSPECTION REPORT RECOMMENDING THAT A CERTIFICATE OF OCCUPANCY BE ISSUED.
- FINAL REPORT FROM THE SPECIAL INSPECTION AGENCY. CERTIFICATE OF FIRE CLEARANCE FROM THE STATE FIRE
- MARSHAL REPORT OF DISINFECTION OF THE POTABLE WATER SYSTEM IPC 610
- A CERTIFICATE OF COMPLIANCE FROM THE APPROVED FABRICATOR, IBC 1704.2.2

ᡣᠬ᠇ᠬ᠇᠇ᢆ᠇᠇ᠬ᠇᠇᠇᠇᠇᠇᠇᠇ REFER TO SHEET G050, AS WELL AS MECHANICAL AND ELECTRICAL COMCHECKS (SEE SPECIFICATIONS APPENDIX).

DEFERRED SUBMITTALS

NOTE: WORK RELATED TO THE DEFERRED SUBMITTALS IS NOT TO COMMENCE UNTIL THE BUILDING OFFICIAL HAS APPROVED THE SUBMITTAL SUBMITTALS SHALL BE SUPPLIED TO THE BUILDING OFFICIAL FOR REVIEW WITH AN ACCOMPANIED APPROVED SUBMITTAL FROM THE ARCHITECT. THE GENERAL CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE INSPECTOR TO DISCUSS THE DEFERRED SUBMITTAL REQUIREMENTS PRIOR TO THE START OF CONSTRUCTION.

SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWING AND SPECIFICATIONS FOR ADDITIONAL DEFERRED SUBMITTAL REQUIREMENTS.

DEFERRED SUBMITTALS LIST

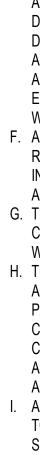
FIRE ALARMS SYSTEMS

FIRE SPRINKLER SYSTEMS VIBRATION AND SEISMIC CONTROL FOR PLUMBING PIPING AND EQUIPMENT VIBRATION AND SEISMIC CONTROL FOR HVAC EQUIPMENT hunnun

APPLICABLE CODES

			<u> </u>
INTERNATIONAL BUILDING C	ODE	2021	ι
INTERNATIONAL MECHANICA	AL CODE	2021	E
INTERNATIONAL FUEL GAS C	CODE	2021	Ā
INTERNATIONAL PLUMBING	CODE	2021	(
INTERNATIONAL FIRE CODE		2021	*
INTERNATIONAL ENERGY			В
CONSERVATION CODE		2021	*
ZONING ORDINANCES	SALT LAKE	CITY, UT	В
LIFE SAFETY 101			*
			· ·

NATIONAL ELECTRICAL CODE 2020 JNIFORM CODE FOR BUILDING CONSERVATION N/A ADA ACCESSIBILITY GUILDELINES ICC/ANSI A117.1-2017 2018 INTERNATIONAL EXISTING UILDING CODE TITLE 18 SALT LAKE CITY ORDINANCES BUILDING AND CONSTRUCTION AUGUST 2017 SALT LAKE COUNTY DESIGN & CONSTRUCTION STANDARDS & PROCEDURES * CURRENT SALT LAKE COUNTY GENERAL CONDITIONS





EELD

BID PACKAGE GENERAL NOTES

A. THIS BID PACKAGE SHALL BE BID IN ITS ENTIRETY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THE ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY B. AS PART OF THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS, THE CONTRACTOR SHALL ENDEAVOR TO IDENTIFY AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OF CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT C. IN CASE OF ANY DISCREPANCY WITHIN THE CONTRACT DOCUMENTS, THE MOST STRINGENT REQUIREMENT OR MOST COSTLY OPTION SHALL APPLY, UNLESS CLARIFICATION IS SOUGHT IN WRITING AND RECEIVED FROM THE ARCHITECT PRIOF

TO BIDDING. THE CONTRACTOR SHALL BRING ANY KNOWN DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT AS SOON AS POSSIBLE, AND IN ANY EVENT, PRIOR TO COMMENCING AFFECTED WORK.

D. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS BETWEEN VENDOR DRAWINGS AND THE CONTRACT DOCUMENTS. THE LATEST VENDOR DRAWINGS SHALL GOVERN AND BE VERIFIED WITH THE OWNER AND THE ARCHITECT.

EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. NOT ALL ELEMENTS OF THE DRAWINGS MAY BE DRAWN TO EXACT SCALE. ALL REQUIRED DIMENSIONS ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE DRAWINGS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE

ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED. DIMENSIONS ARE TO BE COORDINATED WITH ALL DISCIPLINES, VENDORS AND OWNER-FURNISHED EQUIPMENT, FURNITURE AND DEVICES TO ASSURE PROPER PLACEMENT AND WARRANTY REQUIREMENTS.

ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS. SEE THE G-SERIES SHEETS FOR PARTIAL REGULATORY INFORMATION, INCLUDING CODE COMPLIANCE TABLES, RATED ASSEMBLY TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.

G. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION, AND COORDINATE ANY DISCREPANCIES WITH THE ARCHITECT PRIOR TO PROCEEDING WITH AFFECTED WORK.

H. THE CONTRACTOR SHALL PROTECT ALL EXISTING FIRE-RESISTANCE-RATED ASSEMBLIES AND SPRAY-APPLIED STRUCTURAL FIREPROOFING FROM DAMAGE PATCH AND FULLY REPAIR ANY DAMAGE TO SUCH ITEMS, WHETHER EXISTING OR CAUSED BY NEW CONSTRUCTION OR DEMOLITION ACTIVITIES, TO LIKE-NEW CONDITION IN ACCORDANCE WITH THE ORIGINAL LISTED SYSTEMS. SEAL ALL EXISTING AND NEW ASSEMBLY PENETRATIONS WITH LISTED FIRE-RESISTANCE-RATED ASSEMBLIES, WHERE OCCUR, TO MAINTAIN THE INTEGRITY OF THE ASSEMBLIES. ALL UNUSED FLOOR SLAB PENETRATIONS 36 SQUARE INCHES OR LESS IN AREA ARE TO BE INFILLED USING 4,000 PSI CONCRETE FOR THE FULL DEPTH OF THE EXISTING SLAB.

J. IF THERE ARE ANY DISCREPANCIES BETWEEN OR WITHIN THE CONTRACT DOCUMENTS, THEN THE MORE STRINGENT REQUIREMENT AND GREATER EXPENSE WILL BE ENFORCED.

OWNER

Clark Planetarium

110 South 400 West Salt Lake City, UT 84101

DJJohnson@slco.org

CONTACT: Duke Johnson PHONE: 801.580.3398

CONTACT: Holli Adams

PHONE: 801.924.5000

INTERNET: https://slco.org/clark-planetarium/ ARCHITECT

Architectural NEXUS, Inc.

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MECHANICAL

Van Boerum & Frank Associates, Inc. 181 East 5600 South, Suite 200

Murray, UT 84123 showell@vbfa.com http://www.vbfa.com

E-MAIL: INTERNET:

ELECTRICAL Electrical Engineering & Lighting Design

1220 South 300 West Salt Lake City, UT 84101

> mansour@ee-ld.com http://www.ee-ld.com

Salt Lake County

CLARK PLANETARIUM NEW SPACE TENANT IMPROVEMENT

110 S 400 W, Salt Lake City UT, 84101

Nexus Project #: 22070 31 AUGUST 2023 (BP-2, P.I)

THIS PROJECT CONSISTS OF THE FIRST NEW CONSTRUCTION PHASE OF A (2) PHASE RENOVATION OF AN EXISTING TENANT SPACE. THE SCOPE OF WORK OF PHASE I INCLUDES THE INSTALLATION OF NEW WALLS, CEILINGS, DOORS, MILLWORK, PLUMBING, AND FINISHES.

A LEGIBLE FULL SET OF APPROVED PLANS AND DOCUMENTS IS REQUIRED TO BE ON-SITE FOR INSPECTIONS. Yan and a second a second and a second secon



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E-MAIL: INTERNET:

E-MAIL:

CONTACT: Spencer Howell PHONE: 801.530.3148



E-MAIL: PHONE: 801.486.2222 INTERNET

Owner Project #: CONSTRUCTION DOCUMENTS

LIST OF ABBREVIATIONS

GAUGE

GLASS

GYPSUM

HIGH

HOSE BIBB

HIGH POINT

HOUR

HEIGHT

INCH

INFORMATION

INTERIOR

JANITOR

(NOT USED)

LABORATORY

LAVATORY

LOW POINT

MACH RM MACHINE ROOM

MAXIMUM

MECHANICAL

MEZZANINE

MINIMUM

NEW

NOMINAL

NOT TO SCALE

ON CENTER

OUTSIDE DIAMETER;

OUTSIDE DIMENSION

OVERFLOW DRAIN

OVERHEAD DOOR

OPPOSITE HAND

POUNDS PER SQUARE INCH

POLYVINYL CHLORIDE

QUARRY TILE

POUNDS PER SQUARE FOOT

OPPOSITE

P LAM PLASTIC LAMINATE

PLASTER

ORIG ORIGINAL

PLUMB PLUMBING

PAIR

MANUFACTURER

MASONRY OPENING

NOT APPLICABLE

NOT IN CONTRACT

POUNDS

HOLLOW META

HEADER

GALVANIZED

CONCRETE

GΑ

GALV

GFRC

GFRG

GL

GWB

GYP

HΒ

ΗМ

HPT

HR

ΗT

ID

IN

INFO

INT

JAN

LAB

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LBS

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LLV

LPT

MAX

MFR

MECH

MEZZ

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(N)

N/A

NIC

NOM

NTS

00

OD

OFD

OPH

OPP

PLAS

PR

PSI

PSF

PVC

<u>Q</u> QT

OH DR

HDR

5

AIR CONDITIONING A/C AREA DRAIN AD AFC ABOVE FINISHED CEILING AFF ABOVE FINISHED FLOOR AHU AIR HANDLING UNIT ALUM ALUMINUM ANOD ANODIZED ARCH ARCHITECT AT BOARD BD BLDG BUILDING ΒO BOTTOM OF CELSIUS CCSF CLOSED-CELL SPRAY-APPLIED FOAM СН COAT HOOK CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED CG CORNER GUARD CI CONTINUOUS INSULATION CJ CONTROL JOINT CENTERLINE CL CLG CEILING CLOSET CLO CLR CLEAR CMU CONCRETE MASONRY UNIT COL COLUMN CONC CONCRETE CONT CONTINUOUS CORR CORRIDOR СТ CERAMIC TILE CTJ CONSTRUCTION JOINT CABINET UNIT HEATER CUH DEEP DEG DEGREE DEMO DEMOLITION DF **DRINKING FOUNTAIN** DIA DIAMETER DIM DIMENSION DN DOWN DS DOWNSPOUT DWGS DRAWINGS EXISTING (E) EA EACH EXPANSION JOINT EJ EXTERIOR INSULATION AND FINISH EIFS SYSTEM ELEVATION EL ELEC ELECTRICAL ELEV ELEVATOR EOS EDGE OF SLAB ERD EXISTING ROOF DRAIN EQ EQUAL EQUIP EQUIPMENT ELECTRIC WATER COOLER EWC EXIST EXISTING EXP EXPOSED EXT EXTERIOR FAHRENHEIT FA FIRE ALARM FACP FIRE ALARM CONTROL PANEL FIRE DEPARTMENT CONNECTION FDC FD FLOOR DRAIN FEC FIRE EXTINGUISHER CABINET FE FIRE EXTINGUISHER FFE FINISH FLOOR ELEVATION FF&E FINISHES, FURNITURE & EQUIPMENT FG FINISH GRADE FHC FIRE HOSE CABINET FIN FINISH FLR FLOOR FND FOUNDATION FO FINISHED OPENING FOC FACE OF CONCRETE FOM FACE OF MASONRY FOS FACE OF STUD FOW FACE OF WALL FRG FIBER REINFORCED GYPSUM

D

FSP FIRE STANDPIPE

FT FEET

RADIUS RAD RCP GLASS-FIBER-REINFORCED **REFLECTED CEILING PLAN** RD ROOF DRAIN REF GLASS-FIBER-REINFORCED GYPSUM REFRIDGERATOR REQD REQUIRED GYPSUM WALL BOARD REV REVISION RH **RELATIVE HUMIDITY** RM ROOM RO ROUGH OPENING RTU ROOF TOP UNIT RWL RAIN WATER LEADER SMOKE DETECTOR SAM SELF ADHESIVE MEMBRANE SCHED SCHEDULE SECT SECTION SIM SIMILAR SPEC SPECIFICATION INSIDE DIAMETER; INSIDE DIMENSION SS STAINLESS STEEL STD STANDARD STRUCT STRUCTURAL TREAD TEL TELEPHONE TEMP TEMPORARY THK THICK TOC TOP OF CONCRETE TOM TOP OF MASONRY TOP **TOP OF PARAPET** TOS TOP OF SLAB; TOP OF STEEL LONG LEG HORIZONTAL TOW TOP OF WALL TYP LONG LEG VERTICAL TYPICAL ΤO TOP OF UNDERWRITER'S LABORATORIES UL UNO UNLESS NOTED OTHERWISE VCT VINYL COMPOSITE TILE VERT VERTICAL VEST VESTIBULE VIF VERIFY IN FIELD W WITH W/ W/O WITHOUT WD WOOD WH WALL HYDRANT WP WORKING POINT WEATHER RESISTIVE BARRIER WRB (NOT USED) <u>X,Y,Z</u> THE PRECEDING LIST OF ABBREVIATIONS

RISER OR RADIUS

IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS -SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

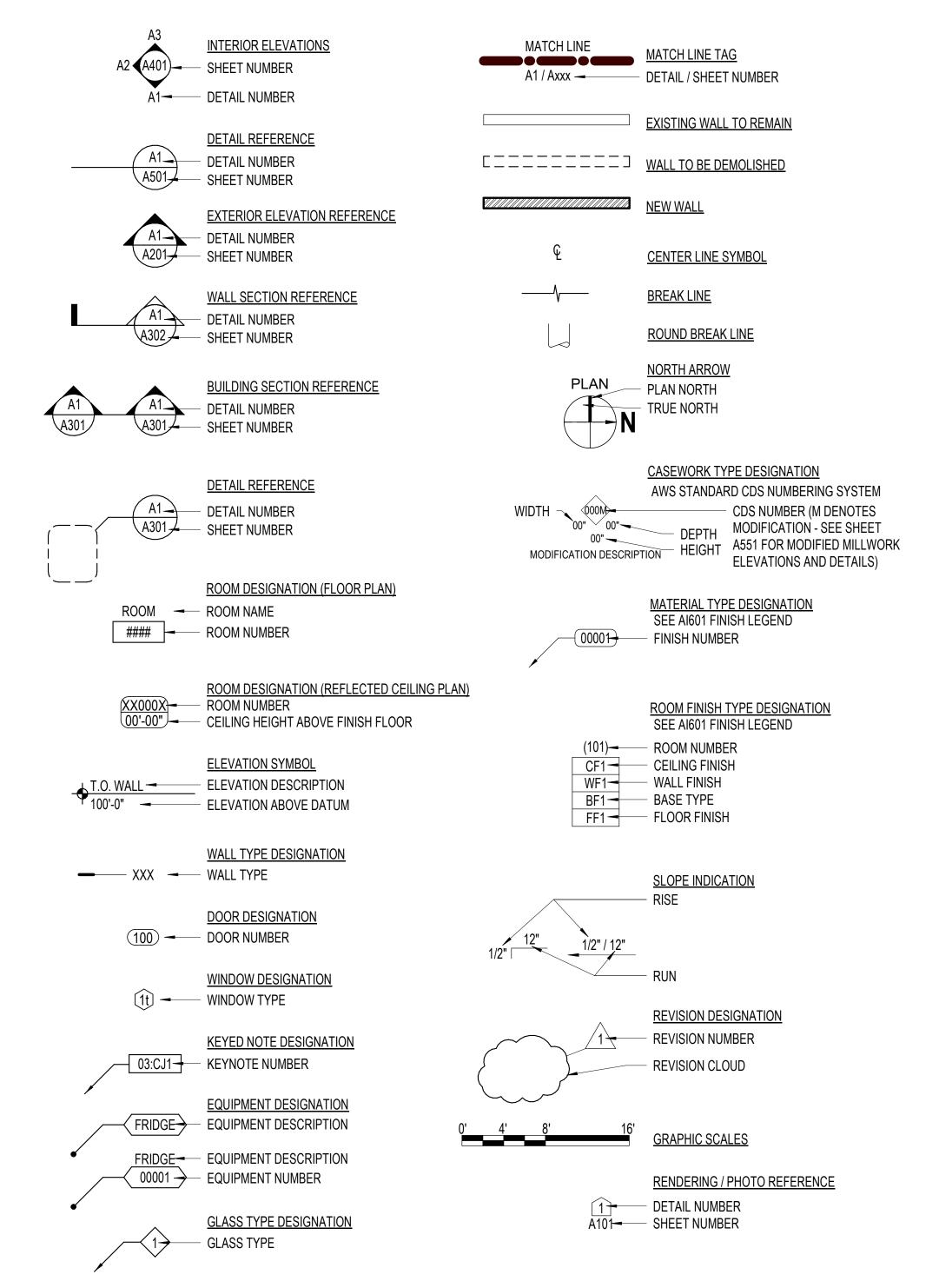
NOTE: HATCHING ANGLES MAY VARY DUE TO ANGLE OF WALL DRAWN, WHILE HATCHING PATTERN REMAINS SIMILAR.

CAST-IN-PLACE
CONCRETE MAS
PRECAST CONC
STEEL STUDS
WOOD STUDS
BRICK VENEER
RIGID INSULATIO
BATT INSULATIO

В

DRAWING SYMBOL LEGEND

3



HATCH LEGEND

CAST-IN-PLACE CONCRETE	CONTINUOUS MATERIAL
CONCRETE MASONRY UNIT	NON CONTINUOUS MATERIAL (BLOCKING)
PRECAST CONCRETE / GLASS FIBER REINFORCED CONCRETE (GFRC)	GYPSUM BOARD
STEEL STUDS	PLYWOOD
WOOD STUDS	EXTERIOR SHEATHING
BRICK VENEER	GRAVEL
RIGID INSULATION	UNDISTURBED EARTH
BATT INSULATION	BACKFILL OR FILL

SHEET INDEX

1

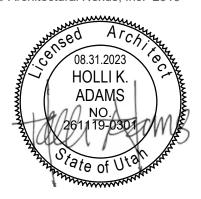
	GENERAL:	
	G001	COVER SHEET
	G002	GENERAL INFORMATION
	G050	GENERAL CODE REQUIREMENTS
	G101	LEVEL 01 EXITING & OCCUPANCY PLANS
	G501	ASSEMBLY TYPES
	G301 G701	ACCESSIBILITY COMPLIANCE
	0/01	
	ARCHITEC	TI IRAI ·
	A101	FLOOR PLAN (PHASE I)
	A151	REFLECTED CEILING PLAN (PHASE I)
	A251	INTERIOR ELEVATIONS AND DOOR SCHEDULES &
		TYPES
	AI101	FINISH FLOOR PLAN, FINISH SCHEDULE, AND
	-	FINISH LEGEND
	A701	TYPICAL DETAILS
	A702	TYPICAL DETAILS
	MECHANIC	AL:
	M001	LEGEND OF MECHANICAL SYMBOLS AND
		ABBREVIATIONS
	M002	MECHANICAL GENERAL NOTES
	MD100	MECHANICAL DEMOLITION FLOOR PLAN
	M101	MECHANICAL FLOOR PLAN
Ę	M102	MECHANICAL ROOF PLAN
	M501	MECHANICAL DETAILS
	M601	MECHANICAL SCHEDULES
	M801	MECHANICAL ZONE PLAN
	MPD100	MECHANICAL PIPING DEMOLITION FLOOR PLAN
	MP101	MECHANICAL PIPING FLOOR PLAN
	PLUMBING	
	PD100	PLUMBING DEMOLITION FLOOR PLAN
	P101	PLUMBING FLOOR PLAN
	P501	PLUMBING DETAILS
	P601	PLUMBING SCHEDULES
	ELECTRICA	
	E-001	GENERAL NOTES & DETAILS
	E-002	SCHEDULES
	EDL-101	LEVEL 1 FLOOR PLAN - DEMOLITION AND
	EP-102	LIGHTING LEVEL 1 FLOOR PLAN - POWER



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Original drawings remain the property of the Architect and as such the Architect retains total ownership and control. The design represented by these drawings is sold to the client for a one time use, unless otherwise agreed upon in writing by the Architect © Architectural Nexus, Inc. 2019





Date Revision 1 10.16.23 Plan Review 01

CONSTRUCTION DOCUMENTS (BP-2, P.I)

NEXUS PROJECT #: 22070 CHECKED BY: Checker DRAWN BY: Author DATE: 31 AUGUST 2023

GENERAL INFORMATION

G002

NONSTRUCTURAL	COMPONENT	CHECKLIST

M DESCRIPTION	NOT REQUIRED	ON CONSTR. DOCUMENTS		COMMENTS
RCHITECTURAL COMPONENTS:				John Litto
INTERIOR NONSTRUCTURAL WALLS & PARTITIONS		×		
CANTILEVER ELEMENTS (I.E. PARAPETS, ETC.)	X			
EXTERIOR NONSTRUCTURAL WALL ELEMENTS	X			
VENEER	X			
PENTHOUSES	X			
CEILINGS (I.E. SUSPENDED GRID OR HARD-LID)		X		
CABINETS (I.E. STORAGE CABINETS, EQUIP, ETC.)	×			
ACCESS FLOORS	X			
STORAGE RACKS	X			
APPENDAGES & ORNAMENTATIONS	X			
SIGNS & BILLBOARDS	X			
OTHER:				
OTHER:				
IEP COMPONENTS:				
FIRE SPRINKLERS			X	Modify Existing
MECHANICAL EQUIPMENT (I.E. HVAC, FANS, AIR HANDLERS, BOILERS, FURNACES, TANKS, CHILLERS, WATER HEATERS, HEAT EXCHANGERS, EVAPORATORS, ENGINES, TURBINES, PUMPS, COMPRESSORS, MFR EQUIPMENT, ETC.)		×		
ELECTRICAL EQUIPMENT (I.E. GENERATORS, BATTERIES, INVERTERS, TRANSFORMERS, MCC, PANEL BOARDS, SWITCH GEAR, CABINETS, ETC.)		×		
ELEVATOR & ESCALATOR COMPONENTS	X			
COMMUNICATION EQUIPMENT, COMPUTERS, INSTRUMENTATION, AND CONTROLS		×		
ROOF-MOUNTED CHIMNEYS, STACKS, COOLING & ELECTRICAL TOWERS	×			
LIGHTING FIXTURES		×		
VIBRATION ISOLATED COMPONENTS	X			
PIPING & CONDUIT SYSTEMS		×		
DUCTWORK (INCLUDING IN-LINE COMPONENTS)		X		
CONVEYORS	X			
CABLE TRAYS	X			
CABLE TRAYS MEP SEISMIC SUPPORT				
OTHER:				
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В

D _____

С

### 3

CODE			RI F		
SPECIAL INSPECTIONS LIST:					ITEM (IBC REFERENCE)
Special Inspections for the project must be listed below i miscellaneous areas. Indicate required Special Inspectio specific instructions as to the inspection requirements arFABRICATORS (IBC 1704.2.5)XAPPROVED FABRICATORFABRICATORSFABRICATORS	ons for the project ad the expectations	by checking the a s of the Architect	appropriate boxes and p	rovide	STRUCTURAL STEEL (1705.14.1) SEISMIC CERTIFICATION OF NONSTRUC COMPONENTS (1705.14.2) SEISMIC ISOLATION SYSTEMS (1705.14.
UNAPPROVED FABRICATOR FABRICATORS	NAME: NA				
IN-PLANT INSPECTIONS: STEEL CONSTRUCTION					ITEM (IBC REFERENCE)
	STEEL (I	BC 1705.2)			PHYSICAL & VISUAL TESTS (1705.15.1) STRUCTURAL MEMBER SURFACE CONI
	NOT	USED			(1705.15.2) MATERIAL APPLICATION (1705.15.3)
CONCR	ETE CONSTRUC	ΓΙΟΝ (IBC 1705.	3 & T1705.3)		MATERIAL THICKNESS (1705.15.4) MATERIAL DENSITY (1705.15.5)
	NOT	T USED			BONDING STRENGTH (1705.15.6)
M	ASONRY CONSTI	RUCTION (IBC 1	1705.4)		MA ITEM (IBC REFERENCE)
	NOT	T USED			
					MATERIAL AND INSTALLATION
	WOOD CONSTRU	JCTION (IBC 170	05.5)		
	NOT	USED			ITEM (IBC REFERENCE)
	SOILS CONSTRU	ICTION (IBC 170	)5.6)		MATERIAL AND INSTALLATION
	NOT	USED			ITEM (IBC REFERENCE)
DR	IVEN DEEP FOUN	IDATIONS (IBC	1705.7)		PENETRATION FIRESTOPS (1705.17.1)
	NOT	USED			FIRE-RESISTANT JOINT SYSTEMS (1705
CAST-II	N-PLACE DEEP F	OUNDATIONS (	IBC 1705.8)		ITEM (IBC REFERENCE)
	NOT	USED			MATERIAL AND INSTALLATION
HE	LICAL PILE FOUN	IDATIONS (IBC	1705.9)		
	NOT	T USED			THESE INSPECTIONS ARE RECOMMENT ITEM (IBC REFERENCE)
SPECIAL INSPI	ECTIONS FOR WI	ND REQUIREM	ENTS (IBC 1705.12)		SUSPENDED CEILING GRID CLIPS
	NOT	T USED			SUSPENDED CEILING WIRE SPACING (S SOILS BACKFILL (SPECIFY LOCATIONS ) FREQUENCY)
SPECIAL INSP	ECTIONS FOR SE	EISMIC RESISTA	ANCE (IBC 1705.13)		SOILS FOR CURB AND GUTTER (SPECIF LOCATIONS AND FREQUENCY)
ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD	DETAILED INSTRUCTIONS and FREQUENCIES	SOILS FOR PARKING LOTS (SPECIFY LC AND FREQUENCY)
STRUCTURAL STEEL (1705.13.1)			-	NA	SOILS FOR UTILITY TRENCH BACKFILL
STRUCTURAL WOOD (1705.13.2) A. CONTINUOUS SPECIAL INSPECTION SHALL BE REQUIRED DURING FIELD GLUING OPERATIONS OF THE ELEMENTS OF THE			NA	NA	REINFORCEMENT FOR SLAB ON GRADE AND DRIVE APPROACHES (SPECIFY LO AND FREQUENCY)
SEISMIC FORCE-RESISTING SYSTEM. B. PERIODIC SPECIAL INSPECTION SHALL BE REQUIRED FOR NAILING, BOLTING,			NA	NA	REINFORCEMENT FOR INTERIOR SLAB
ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORC- RESISTING SYSTEM, INCLUDING WOOD					CONCRETE TESTING FOR SLAB ON GRA SIDEWALKS AND DRIVE APPROACHES ( LOCATIONS AND FREQUENCY)
SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND					CONCRETE TESTING FOR INTERIOR SL GRADE (SPECIFY LOCATIONS AND FRE
HOLD-DOWNS. COLD-FORMED STEEL FRAMING (1705.13.3)			-	NA	MASONRY VENEER (SPECIFY LOCATION
DESIGNATED SEISMIC SYSTEMS (1705.13.4)			-	NA	
ARCHITECTURAL COMPONENTS (1705.13.5) ACCESS FLOORS (1705.13.5.1)			-	INTERIOR NONBEARING WALLS NA	ASPHALT INSPECTION (SPECIFY LOCAT FREQUENCY)

IN-PLANT INSPECTIONS:  STEEL CONSTRUCTION				
	STEEL (II	BC 1705.2)		
	NOT	USED		
CONCF	RETE CONSTRUCT		3 & T1705.3)	
	NOT	USED		
Ν	ASONRY CONSTR	RUCTION (IBC 1	705.4)	
		USED	,	
	WOOD CONSTRU	ICTION (IBC 170	05.5)	
	NOT	USED		
	SOILS CONSTRU	CTION (IBC 170	)5.6)	
	NOT	USED		
DF	RIVEN DEEP FOUN	IDATIONS (IBC	1705.7)	
	NOT	USED		
CAST-	IN-PLACE DEEP F	OUNDATIONS (	IBC 1705.8)	
		USED		
HE	ELICAL PILE FOUN	·	1705.9)	
		USED		
SPECIAL INSF		ND REQUIREM	ENTS (IBC 1705.12)	
			ANCE (IBC 1705.13)	
ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD	DETAILED INSTRUCTIONS and FREQUENCIES
STRUCTURAL STEEL (1705.13.1)			-	NA
<ul> <li>STRUCTURAL WOOD (1705.13.2)</li> <li>A. CONTINUOUS SPECIAL INSPECTION SHALL BE REQUIRED DURING FIELD GLUING OPERATIONS OF THE ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM.</li> <li>B. PERIODIC SPECIAL INSPECTION SHALL BE REQUIRED FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORC- DEDICTING OVERTIME INFORCED</li> </ul>			NA	NA
RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLD-DOWNS.				
COLD-FORMED STEEL FRAMING (1705.13.3) DESIGNATED SEISMIC SYSTEMS (1705.13.4)			-	
ARCHITECTURAL COMPONENTS (1705.13.5) ACCESS FLOORS (1705.13.5.1)			-	INTERIOR NONBEARING WALL
MECHANICAL & ELECTRICAL ITEMS (1705.13.6)		X	-	
STORAGE RACKS (1705.13.7)			-	NA
SEISMIC ISOLATION SYSTEMS (1705.13.8) COLD-FORMED STEEL SPECIAL BOLTED MOMENT FRAMES (1705.13.9)			-	NA NA

Provide proof of licensure as a special inspector by the State of Utah for each type of inspection;

• Inspection reports are to meet the requirements of IBC 1704.2.4 and SLCo General Conditions and Standards standards; • Inspection reports are to be submitted to the Code Consultant, Architect, Project Manager, and the SLCo Project Manager within 48 hrs. of inspections;

• A final inspection report shall be submitted following completion of the project documenting the types of special inspections performed and a statement indicating that the structure is in compliance with the drawings, specifications, and applicable codes. (IBC 1704.2.4)

	ANALY			
	1		STANCE (1705.14)	
ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD	DETAILED INSTRUCTIONS and FREQUENCIES
STRUCTURAL STEEL (1705.14.1)			-	NA
SEISMIC CERTIFICATION OF NONSTRUCTURAL COMPONENTS (1705.14.2)		X	-	ARCHITECTURAL, MPE ITEMS
SEISMIC ISOLATION SYSTEMS (1705.14.4)			-	NA
SPRAYE	D FIRE-RESISTAN	NT MATERIALS (	IRC 1705 15)	
ITEM (IBC REFERENCE)		PERIODIC	REFERENCED	DETAILED INSTRUCTIONS and
· · · · · ·			STANDARD	FREQUENCIES
PHYSICAL & VISUAL TESTS (1705.15.1)			-	NA
STRUCTURAL MEMBER SURFACE CONDITIONS (1705.15.2)			-	NA
MATERIAL APPLICATION (1705.15.3)			-	NA
MATERIAL THICKNESS (1705.15.4)			-	NA
MATERIAL DENSITY (1705.15.5) BONDING STRENGTH (1705.15.6)			-	NA NA
			ATINGS (IBC 1705.16)	
ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD	DETAILED INSTRUCTIONS and FREQUENCIES
MATERIAL AND INSTALLATION				NA
			EIFS) (IBC 1705.17) REFERENCED	DETAILED INSTRUCTIONS and
ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	STANDARD	FREQUENCIES
MATERIAL AND INSTALLATION				NA
FIRE-RESIST	ANT PENETRAT	IONS AND JOIN	TS (IBC 1705.18)	
ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED	DETAILED INSTRUCTIONS and
			STANDARD	FREQUENCIES
PENETRATION FIRESTOPS (1705.17.1) FIRE-RESISTANT JOINT SYSTEMS (1705.17.2)			-	NA NA
			-	
		ROL (IBC 1705.19	,	
ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD	DETAILED INSTRUCTIONS and FREQUENCIES
MATERIAL AND INSTALLATION			-	NA
	,			
THESE INSPECTIONS ARE RECOMMENDED BY THE AR		IEOUS AREAS		
ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED	DETAILED INSTRUCTIONS and
			STANDARD	FREQUENCIES
SUSPENDED CEILING GRID CLIPS		X	STANDARD	THROUGHOUT
SUSPENDED CEILING WIRE SPACING (SEISMIC)		X	STANDARD	THROUGHOUT THROUGHOUT
			STANDARD	THROUGHOUT
SUSPENDED CEILING WIRE SPACING (SEISMIC) SOILS BACKFILL (SPECIFY LOCATIONS AND		X	STANDARD	THROUGHOUT THROUGHOUT
SUSPENDED CEILING WIRE SPACING (SEISMIC) SOILS BACKFILL (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR CURB AND GUTTER (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR PARKING LOTS (SPECIFY LOCATIONS			STANDARD	THROUGHOUT THROUGHOUT NA NA
SUSPENDED CEILING WIRE SPACING (SEISMIC)SOILS BACKFILL (SPECIFY LOCATIONS AND FREQUENCY)SOILS FOR CURB AND GUTTER (SPECIFY LOCATIONS AND FREQUENCY)SOILS FOR PARKING LOTS (SPECIFY LOCATIONS AND FREQUENCY)			STANDARD	THROUGHOUT THROUGHOUT NA NA NA
SUSPENDED CEILING WIRE SPACING (SEISMIC) SOILS BACKFILL (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR CURB AND GUTTER (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR PARKING LOTS (SPECIFY LOCATIONS			STANDARD	THROUGHOUT THROUGHOUT NA NA
SUSPENDED CEILING WIRE SPACING (SEISMIC)SOILS BACKFILL (SPECIFY LOCATIONS AND FREQUENCY)SOILS FOR CURB AND GUTTER (SPECIFY LOCATIONS AND FREQUENCY)SOILS FOR PARKING LOTS (SPECIFY LOCATIONS AND FREQUENCY)SOILS FOR UTILITY TRENCH BACKFILL			STANDARD	THROUGHOUT THROUGHOUT NA NA NA
SUSPENDED CEILING WIRE SPACING (SEISMIC) SOILS BACKFILL (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR CURB AND GUTTER (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR PARKING LOTS (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR UTILITY TRENCH BACKFILL REINFORCEMENT FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS			STANDARD	THROUGHOUT         THROUGHOUT         NA         NA         NA         NA         NA         NA
SUSPENDED CEILING WIRE SPACING (SEISMIC) SOILS BACKFILL (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR CURB AND GUTTER (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR PARKING LOTS (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR UTILITY TRENCH BACKFILL REINFORCEMENT FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) REINFORCEMENT FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY			STANDARD	THROUGHOUT         THROUGHOUT         NA
SUSPENDED CEILING WIRE SPACING (SEISMIC) SOILS BACKFILL (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR CURB AND GUTTER (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR PARKING LOTS (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR UTILITY TRENCH BACKFILL REINFORCEMENT FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) REINFORCEMENT FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR SLAB ON GRADE			STANDARD	THROUGHOUT THROUGHOUT NA NA NA NA NA NA NA
SUSPENDED CEILING WIRE SPACING (SEISMIC) SOILS BACKFILL (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR CURB AND GUTTER (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR PARKING LOTS (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR UTILITY TRENCH BACKFILL REINFORCEMENT FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) REINFORCEMENT FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY)			STANDARD	THROUGHOUT THROUGHOUT NA NA NA NA NA NA NA NA
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SUSPENDED CEILING WIRE SPACING (SEISMIC) SOILS BACKFILL (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR CURB AND GUTTER (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR PARKING LOTS (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR UTILITY TRENCH BACKFILL REINFORCEMENT FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) REINFORCEMENT FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY) MASONRY VENEER (SPECIFY LOCATIONS AND FREQUENCY) ASPHALT INSPECTION (SPECIFY LOCATIONS AND FREQUENCY)			STANDARD	THROUGHOUT THROUGHOUT NA NA NA NA NA NA NA NA NA NA
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SUSPENDED CEILING WIRE SPACING (SEISMIC) SOILS BACKFILL (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR CURB AND GUTTER (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR PARKING LOTS (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR UTILITY TRENCH BACKFILL REINFORCEMENT FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) REINFORCEMENT FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY) MASONRY VENEER (SPECIFY LOCATIONS AND FREQUENCY) ASPHALT INSPECTION (SPECIFY LOCATIONS AND FREQUENCY) INSPECTION OF SEISMIC RESISTANCE (SPECIFY LOCATIONS AND FREQUENCY) STEAM AND WATER LINE WELDING (SPECIFY			STANDARD	THROUGHOUT         THROUGHOUT         NA         N
SUSPENDED CEILING WIRE SPACING (SEISMIC) SOILS BACKFILL (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR CURB AND GUTTER (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR PARKING LOTS (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR UTILITY TRENCH BACKFILL REINFORCEMENT FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) REINFORCEMENT FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) MASONRY VENEER (SPECIFY LOCATIONS AND FREQUENCY) ASPHALT INSPECTION (SPECIFY LOCATIONS AND FREQUENCY) INSPECTION OF SEISMIC RESISTANCE (SPECIFY LOCATIONS AND FREQUENCY)			STANDARD	THROUGHOUT         THROUGHOUT         NA         N
SUSPENDED CEILING WIRE SPACING (SEISMIC) SOILS BACKFILL (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR CURB AND GUTTER (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR PARKING LOTS (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR UTILITY TRENCH BACKFILL REINFORCEMENT FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) REINFORCEMENT FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY) MASONRY VENEER (SPECIFY LOCATIONS AND FREQUENCY) ASPHALT INSPECTION (SPECIFY LOCATIONS AND FREQUENCY) ASPHALT TESTING (SPECIFY LOCATIONS AND FREQUENCY) INSPECTION OF SEISMIC RESISTANCE (SPECIFY LOCATIONS AND FREQUENCY) STEAM AND WATER LINE WELDING (SPECIFY LOCATIONS AND FREQUENCY)			STANDARD	THROUGHOUT         THROUGHOUT         NA         N
SUSPENDED CEILING WIRE SPACING (SEISMIC) SOILS BACKFILL (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR CURB AND GUTTER (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR PARKING LOTS (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR UTILITY TRENCH BACKFILL REINFORCEMENT FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) REINFORCEMENT FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY) MASONRY VENEER (SPECIFY LOCATIONS AND FREQUENCY) ASPHALT INSPECTION (SPECIFY LOCATIONS AND FREQUENCY) ASPHALT TESTING (SPECIFY LOCATIONS AND FREQUENCY) INSPECTION OF SEISMIC RESISTANCE (SPECIFY LOCATIONS AND FREQUENCY) STEAM AND WATER LINE WELDING (SPECIFY LOCATIONS AND FREQUENCY) SEISMIC SUPPORTS FOR DUCTWORK AND SEALING OF JOINTS FOR DUCTWORK AND SEALING OF JOINTS FOR DUCTWORK AND SEALING OF JOINTS FOR DUCTWORK			STANDARD	THROUGHOUT         THROUGHOUT         NA         N
SUSPENDED CEILING WIRE SPACING (SEISMIC) SOILS BACKFILL (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR CURB AND GUTTER (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR PARKING LOTS (SPECIFY LOCATIONS AND FREQUENCY) SOILS FOR UTILITY TRENCH BACKFILL REINFORCEMENT FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) REINFORCEMENT FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY) CONCRETE TESTING FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY) MASONRY VENEER (SPECIFY LOCATIONS AND FREQUENCY) ASPHALT INSPECTION (SPECIFY LOCATIONS AND FREQUENCY) ASPHALT TESTING (SPECIFY LOCATIONS AND FREQUENCY) INSPECTION OF SEISMIC RESISTANCE (SPECIFY LOCATIONS AND FREQUENCY) STEAM AND WATER LINE WELDING (SPECIFY LOCATIONS AND FREQUENCY) SEISMIC SUPPORTS FOR DUCTWORK AND SEALING OF JOINTS FOR DUCTWORK			STANDARD	THROUGHOUT         THROUGHOUT         NA         N

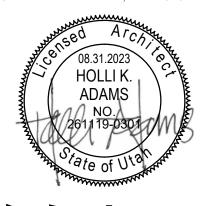
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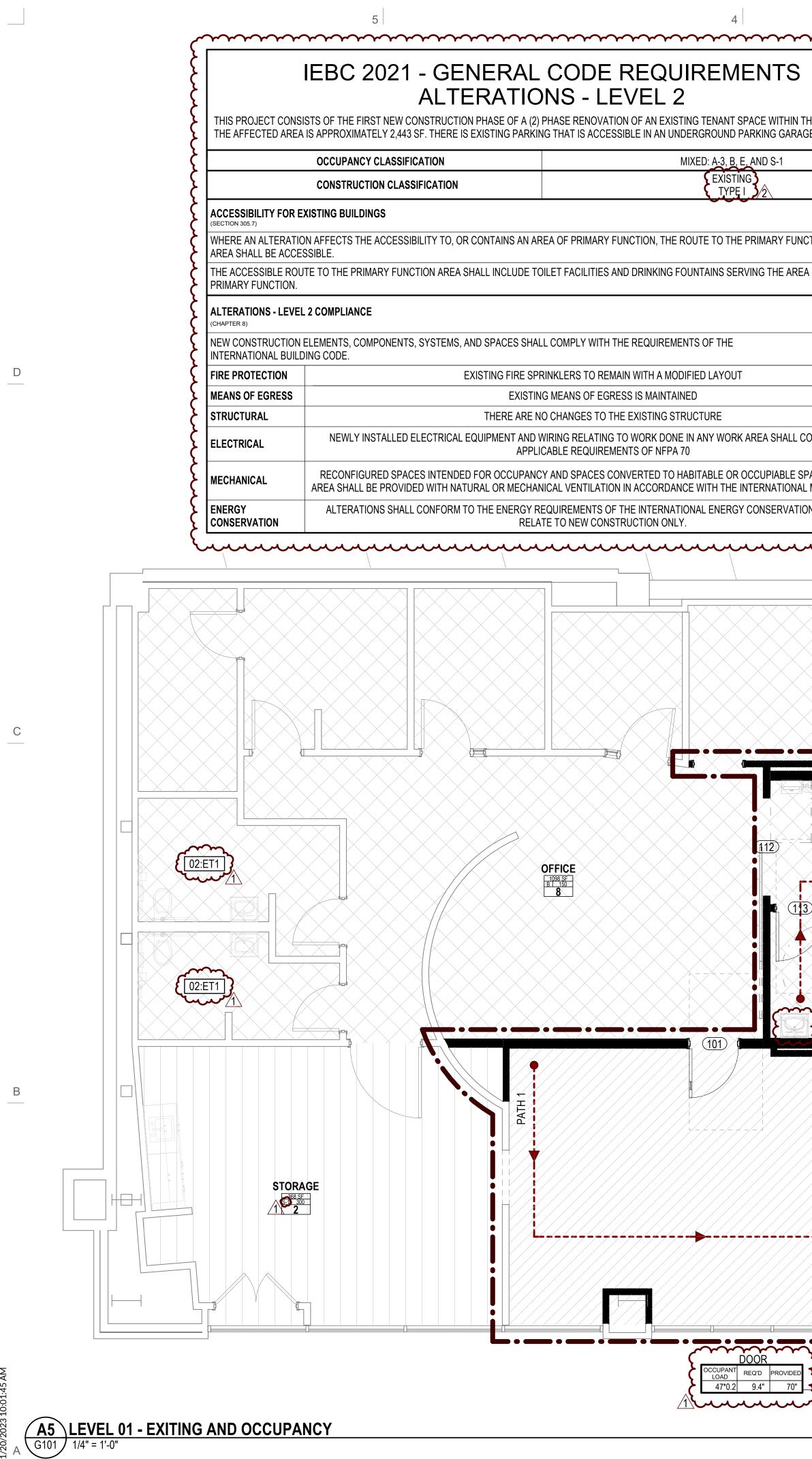
# Date Revision 1 10.16.23 Plan Review 01

### CONSTRUCTION DOCUMENTS (BP-2, P.I)

NEXUS PROJECT #: 22070 CHECKED BY: Checker DRAWN BY: Author DATE: 31 AUGUST 2023

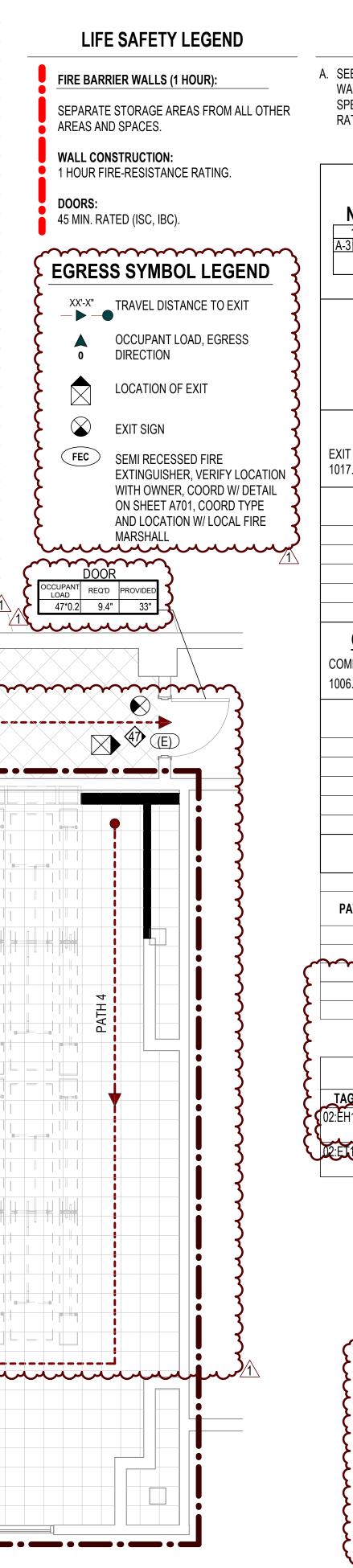
GENERAL CODE REQUIREMENTS

**G050** 



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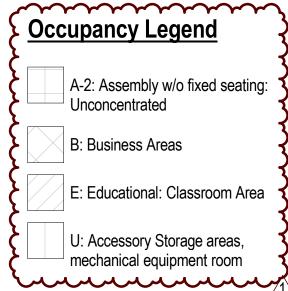
REMENTS			****						~~~~			
						CLOSETS			AVATORIE	S	DRINKING F	OUNTAINS
ENANT SPACE WITHIN THE GATE	WAY MALL.	OCCUPANCY	OCC. LOAD	RATIO	MEN	RATIO	WOMEN	RATIO 1 PER	MEN	WOMEN	RATIO 1 PER	TOTAL
		A-3	88	1 PER 125	0.4	1 PER 65	0.7	200 1 PER 40	0.3	0.3	500	0.2
: A-3, B, E, AND S-1 EXISTING TYPE I		В	16	<50 1 PER 50	0.4	<50 1 PER 50	0.4	<80 1 PER 80	0.2	0.2	1 PER 100	0.2
<u></u>				>50	0.0	>50	0.0	>80	0.0	0.0	1 PER	
TO THE PRIMARY FUNCTION	YES	E	33	1 PER 50	0.4	1 PER 100	0.4	1 PER 100	0.2	0.2	100 1 PER	0.4
AINS SERVING THE AREA OF	YES	S-1 TOTAL REQUIR	3	1 PER 100	0.1 <b>2</b>	1 PER 100	0.1 <b>2</b>	1 PER 100	0.1 <b>1</b>	0.1	1000	0.1 <b>1</b>
		TOTAL REQUI			2.5		2.5		4.5	4.5		4
F THE	VEC											
LAYOUT	YES											
JRE Y WORK AREA SHALL COMPLY W	/ITH ALI											
BLE OR OCCUPIABLE SPACE IN A TH THE INTERNATIONAL MECHAN												
ENERGY CONSERVATION CODE	AS THEY											
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	651 SF E 20 <b>33</b>				(100)		• • • • • •	•				
	651 SF E 20 <b>33</b>										<b>A</b>	
	651 SF E 20 <b>33</b>											
	651 SF E 20 <b>33</b>											
DOOR CCUPANT REQ'D PROVIDED 47*0.2 9.4" 70"	651 SF E 20 <b>33</b>						DOOR PANT REQ'D 7*0.2 9.4"	PROVIDED 70"				



### **GENERAL NOTES -REGULATORY PLANS**

A. SEE WALL TYPES ON FLOOR PLANS AND RATED WALL ASSEMBLIES IN G500 SHEET SERIES FOR SPECIFIC WALL CONSTRUCTION TO ACHIEVE THE RATINGS SHOWN ON THIS PLAN.

	<u>C</u>	OCCUPANCY	<u>tag</u>	
Na	me -	ROOM NA		
				F
A-3	000 -			E D FACTOR
00	00 -			
	•	EGRESS		
	0	EXIT/EGRESS		INTO PER
	T	RAVEL DISTA	NCE	
		TRAVEL DISTANCE SPRINKLERS:	PER TA	BLE
0	CCUP	ANCY		(. TRAVEL DISTANCE
Bl	JSINE	SS AREAS	(B)	300'
AS	SSEM	BLY: NO FIXED STG	(A)	250'
S	TORA	GE	(S-1)	400'
S	TORAC	GE	(S-2)	400'
U	TILITY	/ MISC. SERVICES	(U-1)	400'
1006.2.1	, WITH	H SPRINKLERS (OL >	> 30):	
				K. TRAVEL
		-		DISTANCE
Bl	JSINE	SS AREAS	(B)	DISTANCE 100'
BL	USINE SSEMI	SS AREAS BLY: NO FIXED STG	(B) (A-2/A-3	DISTANCE 100' 3) 75'
BI AS	USINE SSEME TORA(	SS AREAS BLY: NO FIXED STG GE	(B) (A-2/A-3 (S-1)	DISTANCE 100' 3) 75' 100'
BI AS ST	USINE SSEME TORAC	SS AREAS BLY: NO FIXED STG GE GE	(B) (A-2/A-3 (S-1) (S-2)	DISTANCE 100' 3) 75' 100' 100'
BI AS S ⁻ U	USINE SSEME TORAC TORAC TILITY	SS AREAS BLY: NO FIXED STG GE	(B) (A-2/A-3 (S-1)	DISTANCE 100' 3) 75' 100'
BI AS S ⁻ U	USINE SSEME TORAC TORAC TILITY	SS AREAS BLY: NO FIXED STG GE GE / MISC. SERVICES F TRAVEL @ LEVEL 01	(B) (A-2/A-3 (S-1) (S-2) (U-1)	DISTANCE 100' 3) 75' 100' 100' 75' ►
BI AS S ⁻ U	JSINE SSEMI TORAC TORAC TILITY ATH O	SS AREAS BLY: NO FIXED STG GE GE / MISC. SERVICES F TRAVEL @	(B) (A-2/A-3 (S-1) (S-2) (U-1) LONGE	DISTANCE 100' 3) 75' 100' 100' 75'
BI AS S ⁻ U ⁻ P/	JSINE SSEMI TORAC TORAC TILITY ATH O	SS AREAS BLY: NO FIXED STG GE JE MISC. SERVICES F TRAVEL @ LEVEL 01 COMMON PATH	(B) (A-2/A-3 (S-1) (S-2) (U-1) LONGE	DISTANCE 100' 3) 75' 100' 100' 75' − − ↓ EST PATH
	JSINE SSEMI TORAC TORAC TILITY ATH O	SS AREAS BLY: NO FIXED STG GE GE / MISC. SERVICES F TRAVEL @ LEVEL 01 COMMON PATH OF TRAVEL	(B) (A-2/A-3 (S-1) (S-2) (U-1) LONGE OF 1	DISTANCE 100' 3) 75' 100' 100' 75' ► ST PATH RAVEL 11" 7' - 6"
BI AS S ⁻ U ⁻ P/ PATH	JSINE SSEMI TORAC TORAC TILITY ATH O	SS AREAS BLY: NO FIXED STG GE GE / MISC. SERVICES F TRAVEL @ LEVEL 01 COMMON PATH OF TRAVEL 35' - 11" 30' - 0" 25' - 7"	(B) (A-2/A-3 (S-1) (S-2) (U-1) LONGE OF 1 35 67 7	DISTANCE 100' 3) 75' 100' 100' 75' ► EST PATH RAVEL ' - 11" 7' - 6" 1' - 5"
	JSINE SSEMI TORAC TORAC TILITY ATH O	SS AREAS BLY: NO FIXED STG GE GE / MISC. SERVICES F TRAVEL @ LEVEL 01 COMMON PATH OF TRAVEL	(B) (A-2/A-3 (S-1) (S-2) (U-1) LONGE OF 1 35 67 7	DISTANCE 100' 3) 75' 100' 100' 75' ► ST PATH RAVEL 11" 7' - 6"
BI AS S ⁻ U ⁻ P/ PATH	JSINE SSEMI TORAC TORAC TILITY ATH O	SS AREAS BLY: NO FIXED STG GE GE / MISC. SERVICES F TRAVEL @ LEVEL 01 COMMON PATH OF TRAVEL 35' - 11" 30' - 0" 25' - 7"	(B) (A-2/A-3 (S-1) (S-2) (U-1) LONGE OF 1 35 67 7	DISTANCE 100' 3) 75' 100' 100' 75' ► EST PATH RAVEL ' - 11" 7' - 6" 1' - 5"
BI AS S ⁻ U ⁻ P/ PATH	JSINE SSEME TORAC TORAC TILITY ATH O #	SS AREAS BLY: NO FIXED STG GE GE / MISC. SERVICES F TRAVEL @ LEVEL 01 COMMON PATH OF TRAVEL 35' - 11" 30' - 0" 25' - 7"	(B) (A-2/A-3 (S-1) (S-2) (U-1) LONGE OF 1 35 67 7' 12	DISTANCE 100' 3) 75' 100' 100' 75' ► EST PATH RAVEL ' - 11" 7' - 6" 1' - 5"
BI AS S ⁻ U ⁻ P/ PATH 1 2 3 4	JSINE SSEME TORAC TORAC TILITY ATH O #	SS AREAS BLY: NO FIXED STG GE GE / MISC. SERVICES F TRAVEL @ LEVEL 01 COMMON PATH OF TRAVEL 35' - 11" 30' - 0" 25' - 7" 28' - 0" EYNOTE LEG KEYNOTE 1	(B) (A-2/A-3 (S-1) (S-2) (U-1) LONGE OF 1 35 67 7' 12 END	DISTANCE 100' 3) 75' 100' 75' ► ST PATH RAVEL 11" 7' - 6" 1' - 5" 5' - 9"
BI AS S ⁻ U ⁻ P/ PATH 	JSINE SSEME TORAC TORAC TILITY ATH O #	SS AREAS BLY: NO FIXED STG GE GE / MISC. SERVICES F TRAVEL @ LEVEL 01 COMMON PATH OF TRAVEL 30' - 0" 25' - 7" 28' - 0" EYNOTE LEG KEYNOTE LEG	(B) (A-2/A-3 (S-1) (S-2) (U-1) LONGE OF 1 	DISTANCE 100' 3) 75' 100' 75' ► ST PATH RAVEL ' - 11" 7' - 6" 1' - 5" 5' - 9" RE TO
BI AS S ⁻ U ⁻ P/ PATH 1 2 3 4	JSINE SSEME TORAC TORAC TILITY ATH O #	SS AREAS BLY: NO FIXED STG GE GE / MISC. SERVICES F TRAVEL @ LEVEL 01 COMMON PATH OF TRAVEL 35' - 11" 30' - 0" 25' - 7" 28' - 0" EYNOTE LEG KEYNOTE 1	(B) (A-2/A-3 (S-1) (S-2) (U-1) (U-1)  LONGE OF 1  35 67 7' 12 	DISTANCE 100' 100' 100' 75' ► EST PATH RAVEL ' - 11" 7' - 6" 1' - 5" 5' - 9" RE TO 0 REMAIN



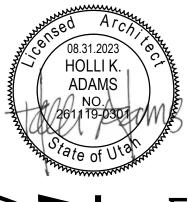




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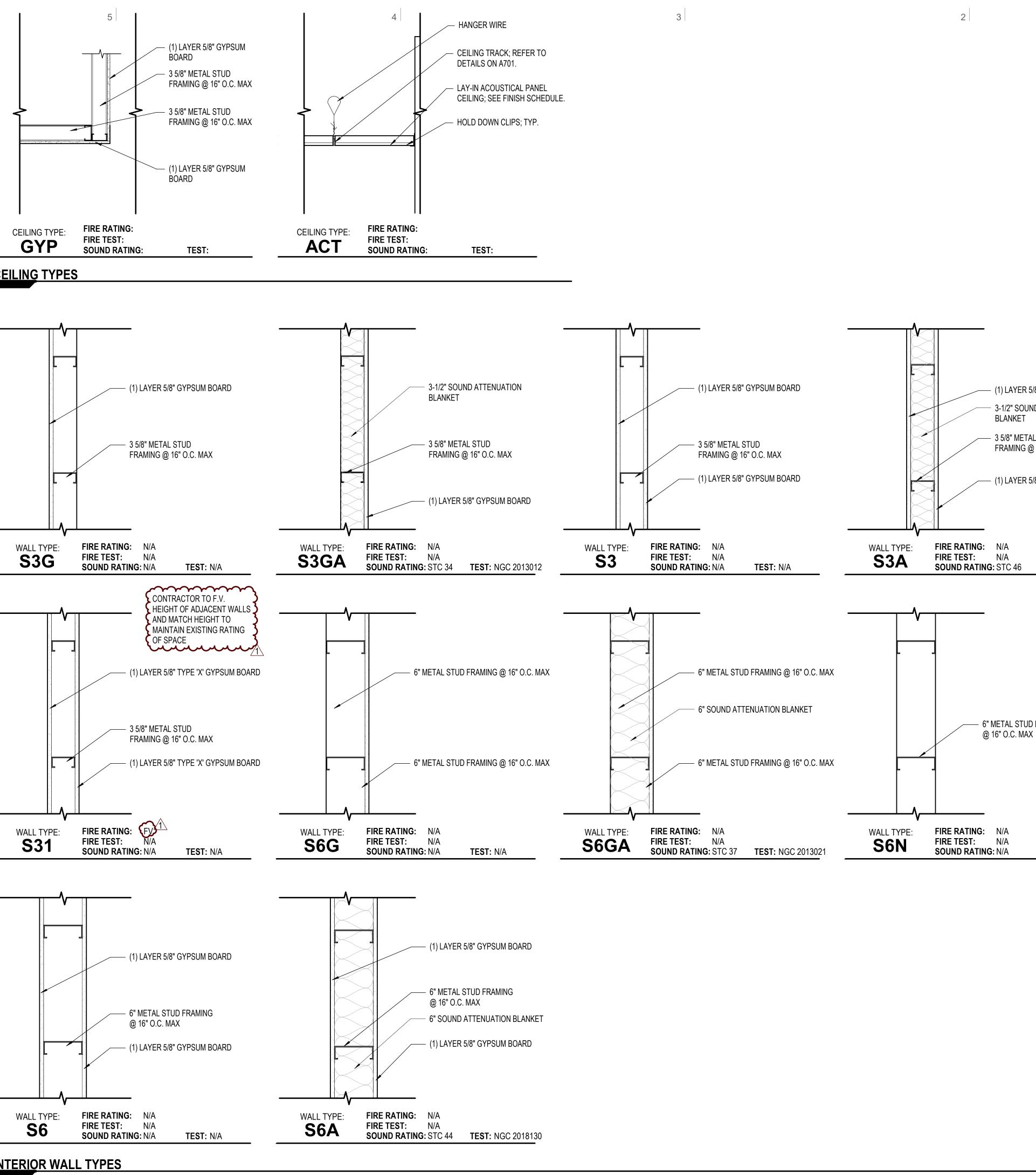
Date Revision # 1 10.16.23 Plan Review 01 2 11.14.23 Plan Review 02

### CONSTRUCTION DOCUMENTS (BP-2, P.I)

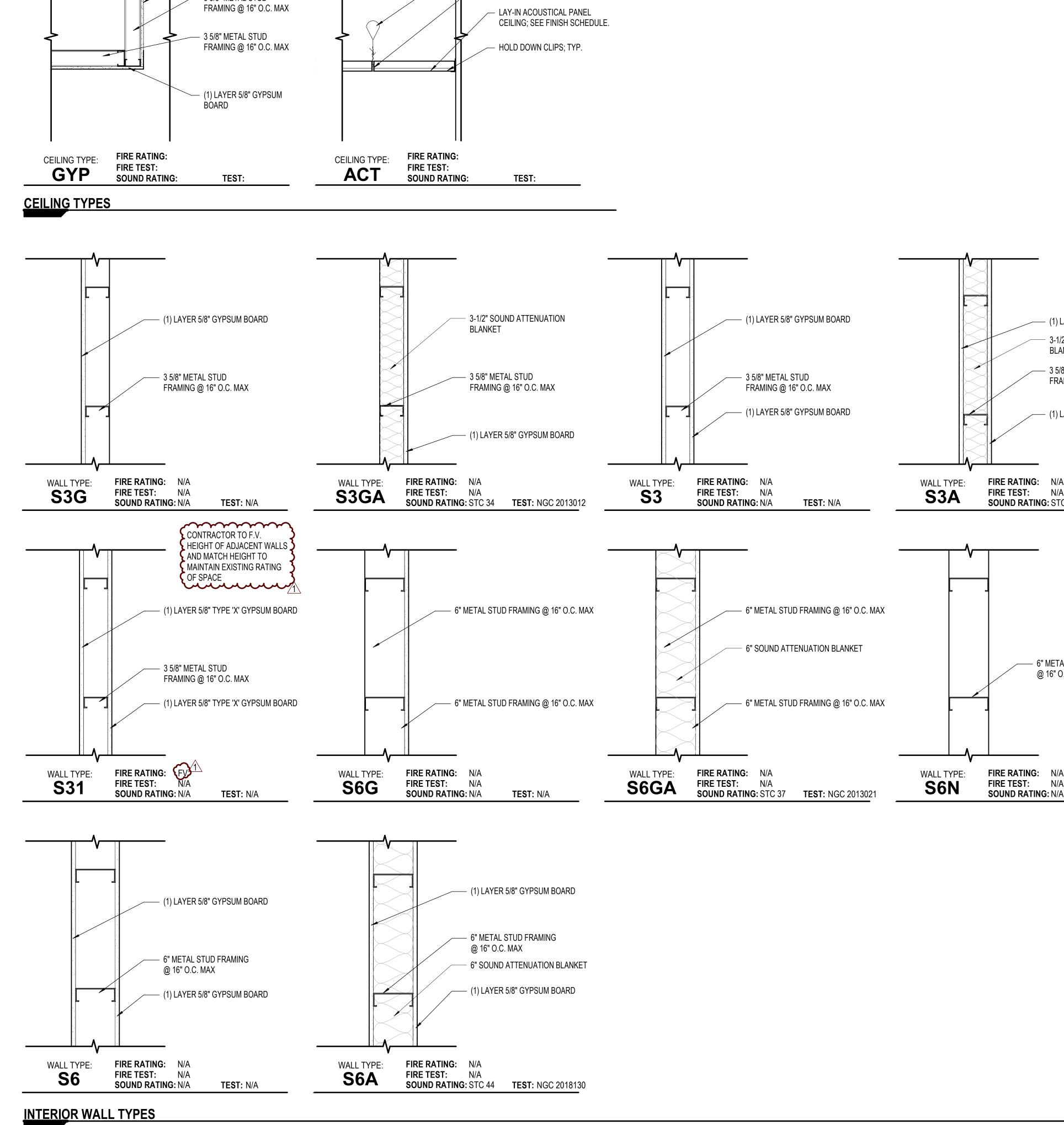
NEXUS PROJECT #: 22070 CHECKED BY: Checker DRAWN BY: Author DATE: 31 AUGUST 2023

LEVEL 01 **EXITING &** OCCUPANCY PLANS





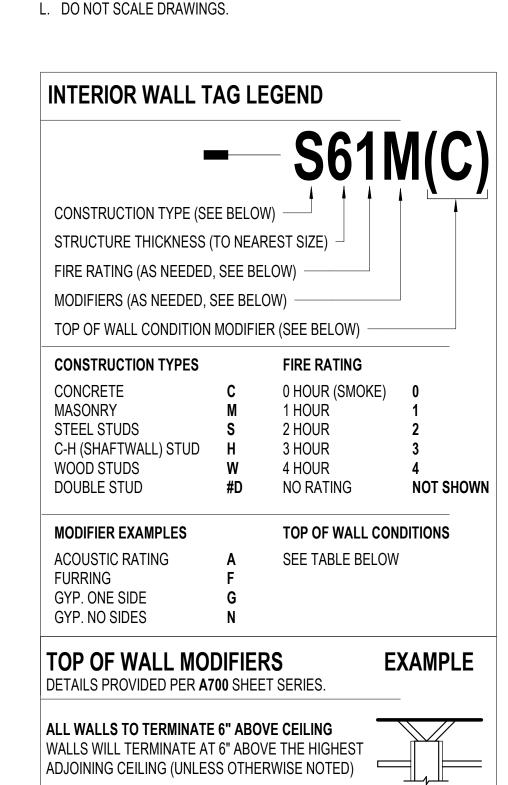




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### **GENERAL NOTES -**WALL TYPE ASSEMBLIES

- A. WALL HEIGHT: ALL NEW INTERIOR WALL ASSEMBLIES ARE CONTINUOUS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE. REFER TO THE LEGENDS ON THIS SHEET AND COORDINATE WITH PLANS.
- B. TILE BACKER / CEMENT BOARD: WALL TYPES DESCRIBED ON THIS SHEET DO NOT SHOW OR ACCOUNT FOR REQUIREMENTS WHERE A TILE FINISH OCCURS. WHERE THE FINISH SCHEDULE OR INTERIOR ELEVATIONS CALL FOR TILE, REPLACE GYPSUM BOARD SHOWN IN THAT WALL'S ASSEMBLY WITH TILE BACKER / CEMENT BOARD WHERE THE TILE OCCURS. REPLACE OTHER GYPSUM BOARD SHOWN IN THAT WALL'S ASSEMBLY WITH MOISTURE RESISTANT GYPSUM BOARD WHERE NO TILE OCCURS.
- C. BACKING / SUPPORT: WALL TYPES DESCRIBED ON THIS SHEET DO NOT ACCOUNT FOR REQUIRED BACKING. CONTRACTOR TO PROVIDE BACKING / SUPPORT FOR ALL MOUNTED FIXTURES, EQUIPMENT CASEWORK, AND/OR SYSTEMS FURNITURE. COORDINATE WITH FLOOR PLANS, AND INTERIOR ELEVATIONS PRIOR TO THE COVERING OF STUD FRAMING. REFER TO MANUFACTURER'S RECOMMENDATIONS WHERE APPLICABLE, OTHERWISE REFER TO DETAILS ON A700 SHEET SERIES.
- D. STRUCTURAL SHEATHING: REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL SHEATHING REQUIREMENTS AND ATTACHMENTS. E. **SEISMIC BRACING:** PROVIDE SEISMIC BRACING AT ALL WALL TYPES
- THAT DO NOT EXTEND TO DECK, REFER TO DETAILS ON A700 SHEET SERIES. F. **PENETRATIONS:** PENETRATIONS THROUGH FIRE RATED ASSEMBLIES
- SHALL BE PROVIDED PER G550 SHEET SERIES. G. LISTED ASSEMBLIES: RATED ASSEMBLIES PROVIDED PER G550 SHEET SERIES.
- H. ACOUSTIC WALLS: AT ALL WALLS WITH SOUND ATTENUATION, SEAL ENTIRE TOP AND BOTTOM OF WALL WITH SOUND SEALANT
- I. DEFLECTION TRACK: AT ALL WALLS THAT EXTEND TO STRUCTURE PROVIDE DEFLECTION TRACK. REFER TO DETAILS ON A700 SHEET SERIES.
- J. RATED WALL PRIORITY: FOR PARTITION PRIORITY FOR SEQUENCING OF RATED WALL CONSTRUCTION REFER TO DETAILS ON A700 SHEET SERIES.
- K. INFORMATION IN THE LEGENDS BELOW IS FOR REFERENCE ONLY AND DOES NOT OVERRIDE THE CONTENTS OF THE DETAILS ON THIS SHEET.

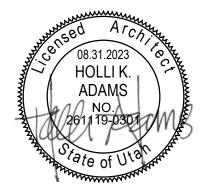




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# Date Revision 1 10.16.23 Plan Review 01

### CONSTRUCTION DOCUMENTS (BP-2, P.I)

NEXUS PROJECT #: 22070 CHECKED BY: Checker DRAWN BY: Author DATE: 31 AUGUST 2023

**ASSEMBLY TYPES** 

- (1) LAYER 5/8" GYPSUM BOARD 3-1/2" SOUND ATTENUATION

3 5/8" METAL STUD FRAMING @ 16" O.C. MAX

— (1) LAYER 5/8" GYPSUM BOARD

**SOUND RATING:** STC 46 **TEST:** NGC 2018106

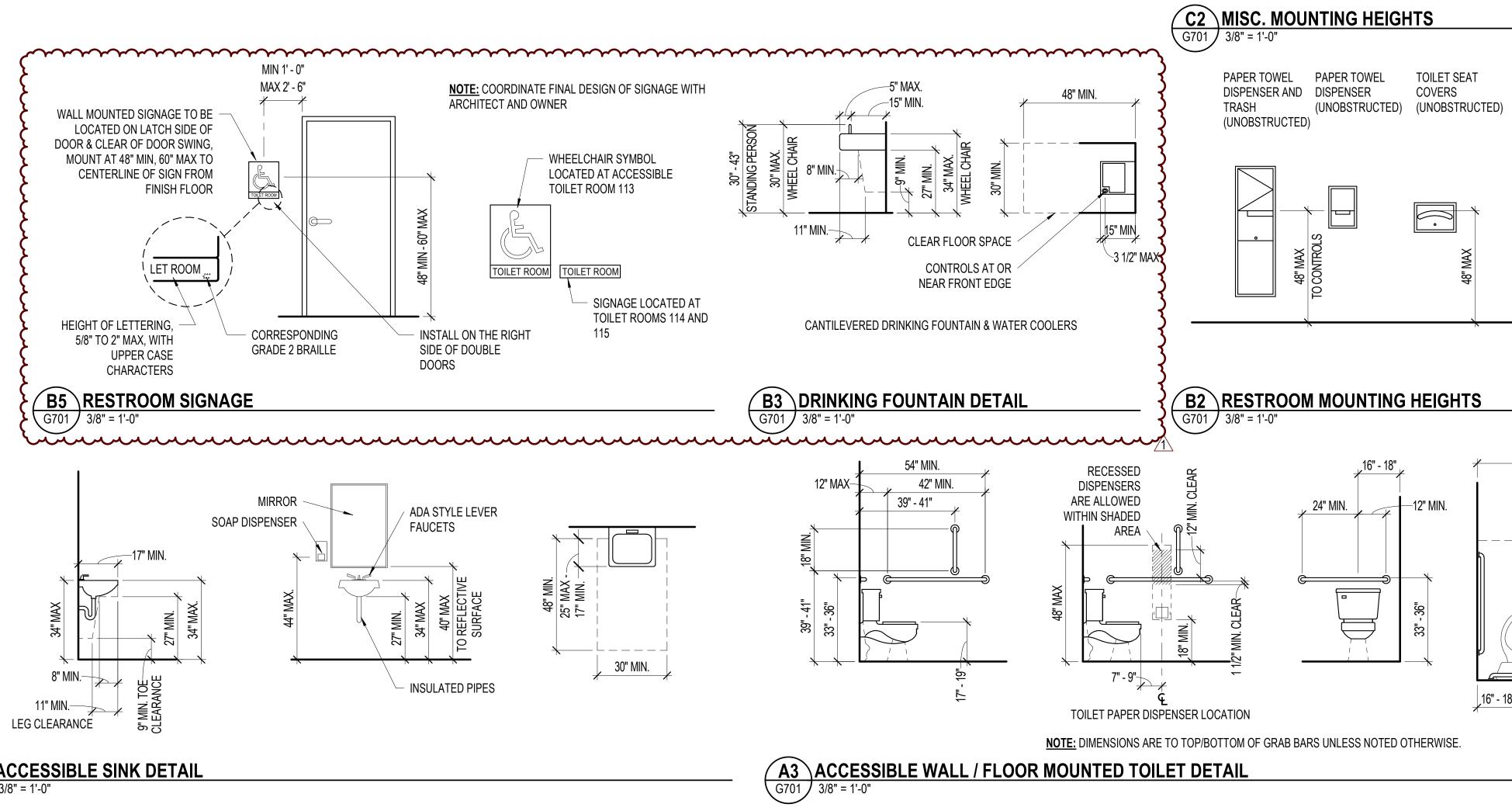
- 6" METAL STUD FRAMING

TEST: N/A

**G501** 

### A5 ACCESSIBLE SINK DETAIL G701 / 3/8" = 1'-0"





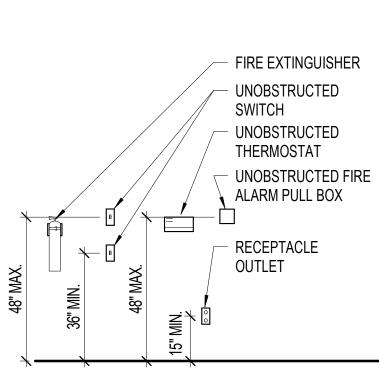


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RECEPTACLES AND SWITCH MOUNTING HEIGHTS

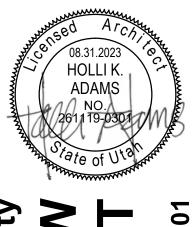




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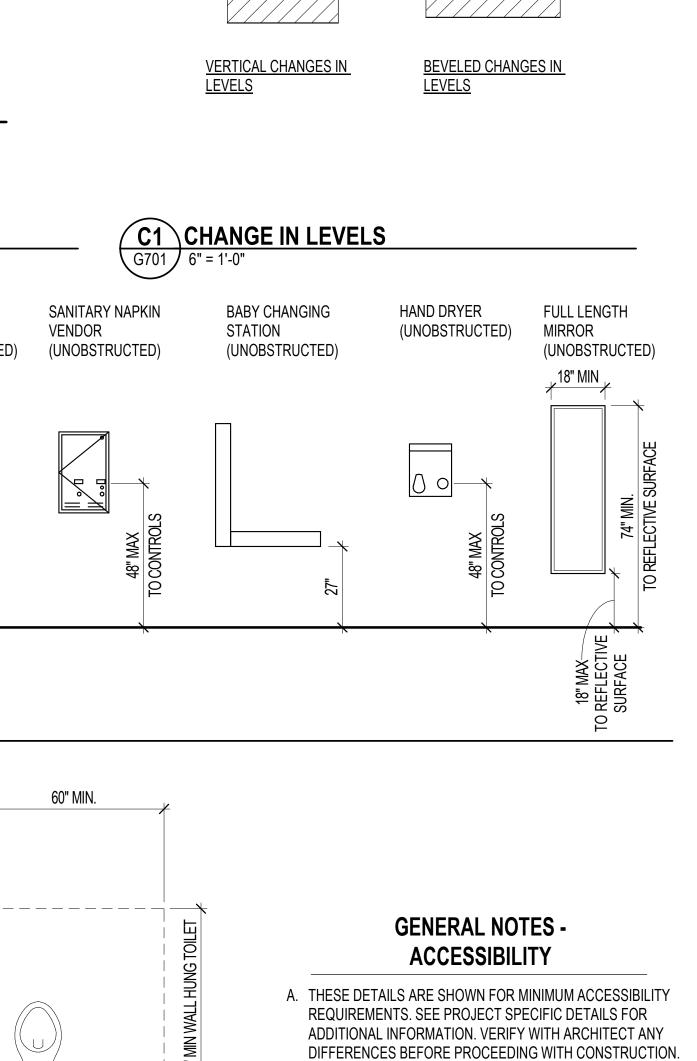
Date Revision # 1 10.16.23 Plan Review 01

### CONSTRUCTION DOCUMENTS (BP-2, P.I)

NEXUS PROJECT #: 22070 CHECKED BY: Checker DRAWN BY: Author DATE: 31 AUGUST 2023



G701



1

GREATER THAN 1/4" BUT NOT

MORE THAN 1/2". IF GREATER

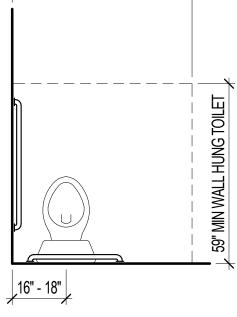
THAN 1/2", MUST MEET RAMP

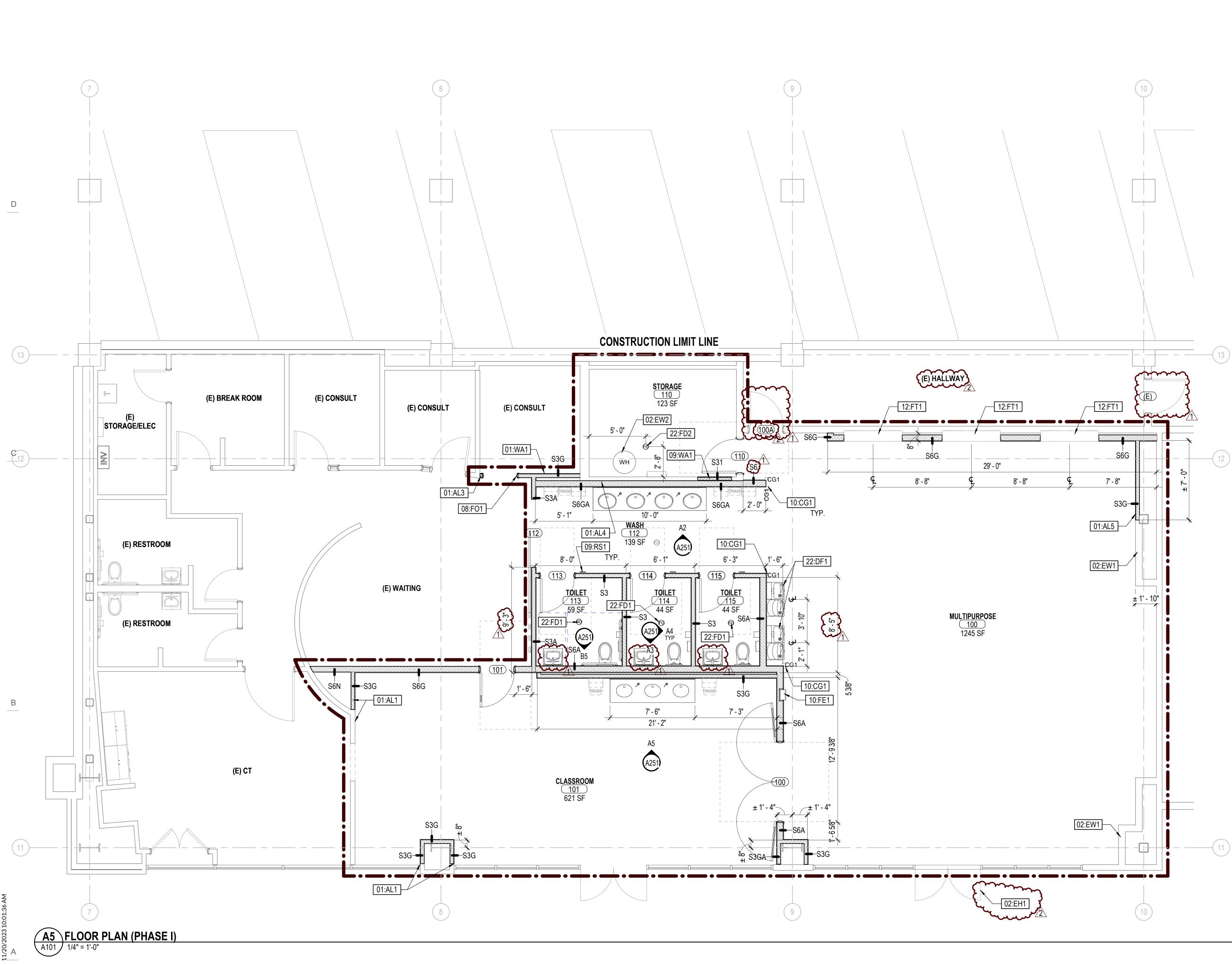
REQUIREMENTS.

B. PROVIDE BACKING / SUPPORT FOR ALL MOUNTED FIXTURES, EQUIPMENT, CASEWORK, AND/OR SYSTEMS FURNITURE. COORDINATE WITH FLOOR PLANS, AND INTERIOR ELEVATIONS PRIOR TO THE COVERING OF STUD FRAMING. REFER TO MANUFACTURER'S RECOMMENDATIONS WHERE APPLICABLE, OTHERWISE REFER TO DETAILS ON A700 SHEET SERIES.

C. DO NOT SCALE DRAWINGS.

1/4" MAX





5

2



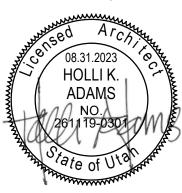
- A. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION. COORDINATE DISCREPANCIES WITH ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
- B. ALL NEW WALL ASSEMBLIES ARE CONTINUOUS TO
- BOTTOM OF DECK UNLESS NOTED OTHERWISE. C. PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF ARCH | NEXUS
- WALL STRUCTURE, UNLESS NOTED OTHERWISE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- D. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- E. SEE **G** SERIES SHEETS FOR WALL TYPES AND TYPICAL T 801.924.5000 ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS, REGULATORY PLAN INFORMATION; INCLUDING RATED ASSEMBLY EXTENTS, OCCUPANCY AND EGRESS SYSTEMS.
- F. WHERE NEW CONSTRUCTION INTERFACES WITH EXISTING, PATCH AND REPAIR AS NECESSARY TO MATCH ORIGINAL CONDITION.
- G. WHERE PROVIDED, DOOR AND WINDOW DIMENSIONS ARE TO EDGE OF OPENING. OPENING DIMENSIONS ARE NOMINAL. CONTRACTOR SHALL COORDINATE DIMENSIONS OF ALL ROUGH OPENINGS AND ACTUAL FRAME SIZES.
- H. WHERE DOOR LOCATIONS ARE NOT DIMENSIONED, SEE DETAILS REFERENCED IN DOOR SCHEDULE BY SPECIFIC CONDITION. OTHERWISE, THE HINGE SIDE OF DOOR ROUGH OPENINGS SHALL BE LOCATED 4" FROM THE ADJACENT PERPENDICULAR WALL, SUBJECT TO MAINTENANCE OF REQUIRED ADA CLEARANCES REFERED IN THE **G** SERIES.
- I. DO NOT SCALE DRAWINGS.

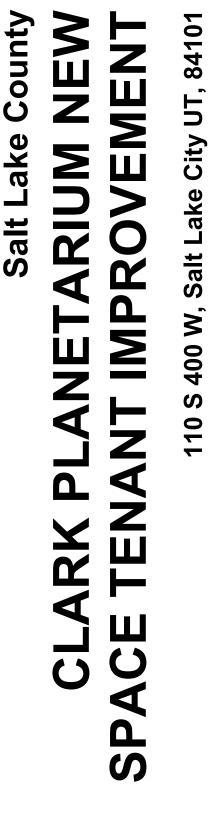
	KEYNOTE LEGEND	
TAG	KEYNOTE TEXT	
01:AL1	ALIGN	
01:AL3	ALIGN NEW WALL AT CORNER OF EXISTING CONSTRUCTION	
01:AL4	ALIGN NEW WALL AGAINST FACE OF EXISTING CONSTRUCTION	
01:AL5	ALIGN NEW WALL WITH EXISTING WALL TO REMAIN	
01:WA1	NEW WALL, PROTECT EXISTING FLOORING TO REMAIN	
02:ÉH1	EXISTING PANIC DOOR HARDWARE TO REMAIN ON EXISTING DOORS TO REMAIN	
02:EW1	EXISTING WALL TO REMAIN, PROTECT IN PLACE	
02:EW2	EXISTING WATER HEATER TO BE RELOCATED, COORDINATE WITH PLUMBING DRAWINGS	
08:FO1	PROVIDE 3' - 2" X 7' - 2" FRAMED OPENING IN PREPARATION FOR TYPICAL 3' X 7' DOOR IN FUTURE PHASE	
09:RS1	UNISEX RESTROOM SIGNAGE AT EACH TOILET STALL, TYP; SEE B5/G701 FOR MORE INFORMATION; COORDINATE FINAL DESIGN OF SIGNAGE WITH ARCHITECT AND OWNER FOR APPROVAL	
09:WA1	INFILL OPENING WITH NEW METAL STUD WALL, ALIGN WITH THE ADJACENT FACES OF EXISTING CONSTRUCTION, INSTALL BASE TO MATCH EXISTING	
10:CG1	CORNER GUARD, COORDINATE WITH FINISH LEGEND	
10:FE1	SEMI-RECESSED FIRE EXTINGUISHER, VERIFY LOCATION WITH OWNER, SEE TYPICAL DETAIN ON SHEET A701	
12:FT1	FOLDING TABLE WITH BENCH SEATS WITH INTEGRAL WALL POCKET, COORDINATE DEPTH OF WALL WITH MANUFACTURER REQUIREMENTS, OPCI	
22:DF1	DRINKING FOUNTAIN, COORDINATE WITH PLUMBING DRAWINGS	
22:FD1	FLOOR DRAIN, CENTER IN ROOM, COORDINATE WITH PLUMBING DRAWINGS	
22:FD2	FLOOR DRAIN, COORDINATE WITH PLUMBING DRAWINGS	



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#	Date	Revision
1	10.16.23	Plan Review 01
2	11.14.23	Plan Review 02

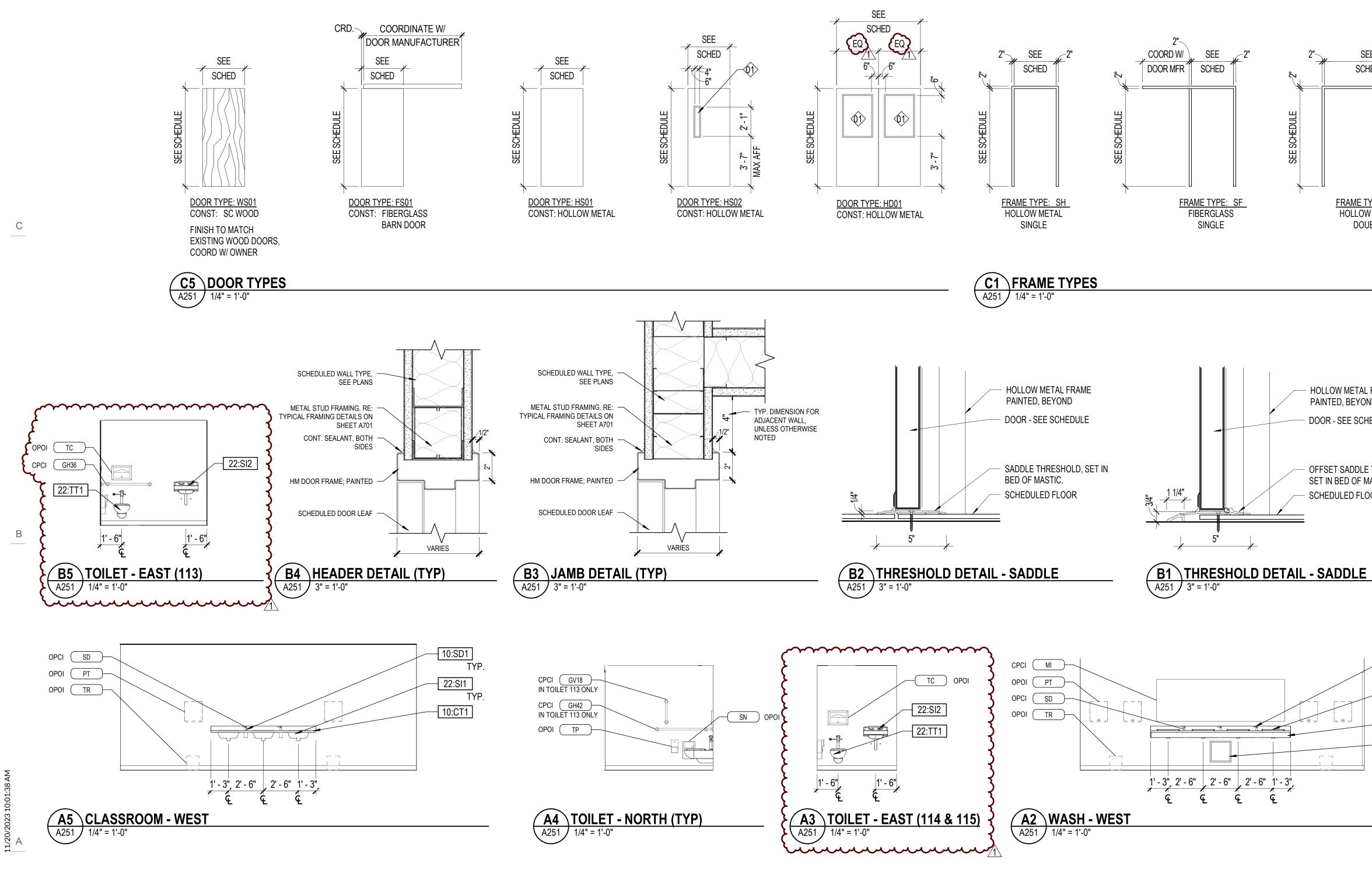
# CONSTRUCTION

NEXUS PROJECT #: 22070 CHECKED BY: Checker DRAWN BY: Author DATE: 31 AUGUST 2023

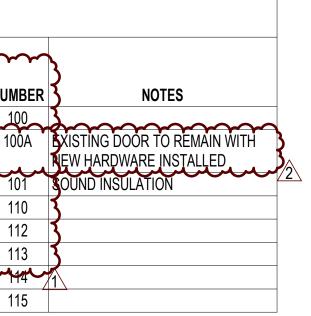
## DOCUMENTS (BP-2, P.I)

## **FLOOR PLAN** (PHASE I)

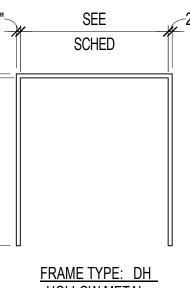
A101



						DOOF	R SCHE	DULE		
		DOOR		FRAME						
	S	ZE			DETAIL			FIRE	HARDWARE	
NUMBER	WIDTH	HEIGHT	TYPE	HEAD	JAMB	THRESH	TYPE	RATING	GROUP	NUN
100	7' - 0"	7' - 0"	HD01				DH		04	1
100A	3' - 0"	7' - 0"	(E)				(E)		06	1(
hun	unu	hun	un	m	un	m	MM	hun	hund	I.
101	3' - 0"	7' - 0"	HS02				SH		01	1
110	3' - 0"	7' - 0"	WS01			B1/A251	SH	45 MIN	02	1
112	6' - 0"	9' - 6"	FS01				SF		05	1
113	3' - 0"	7' - 0"	HS01				SH		03	1
114	3' - 0"	7' - 0"	HS01				SH		03	4
115	3' - 0"	7' - 0"	HS01				SH		03	1



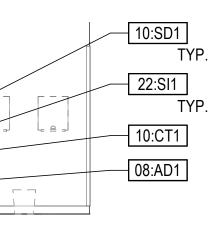
GLAZING SCHEDULE				
TAG	DESCRIPTION			
01	1/4" CLEAR, TEMPERED			



HOLLOW METAL DOUBLE

HOLLOW METAL FRAME PAINTED, BEYOND DOOR - SEE SCHEDULE

OFFSET SADDLE THRESHOLD, SET IN BED OF MASTIC. SCHEDULED FLOOR



### **GENERAL NOTES -DOOR & WINDOW TYPES**

- A. FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL & SUBSEQUENT FABRICATION
- OF ALL DOOR AND WINDOW FRAMES. B. DOOR AND FRAME ASSEMBLIES SHALL COMPLY WITH ALL GENERAL NOTES & LEGENDS, DOOR AND FRAME DETAILS, HARDWARE AND OTHER COMPONENTS INDICATED BY THE "DOOR SCHEDULE(S)", AS WELL AS
- ALL PROJECT REQUIREMENTS AS SPECIFIED. C. ALL HARDWARE TO HAVE B.H.M.A. 626, U26D SATIN CHROME FINISH OR EQ, UNLESS NOTED OTHERWISE
- D. PROVIDE CLEARANCE REQUIRED BY ACCESSIBILITY CODES ANSI A117.1 AND ADAAG AT ALL DOORS, AS DEPICTED IN DETAILS ON G700 SHEET SERIES. E. DO NOT SCALE DRAWINGS.

### **GENERAL NOTES -INTERIOR ELEVATIONS**

- A. SEE REFLECTED CEILING PLANS FOR CEILING
- FEATURES AND CEILING FINISH LOCATIONS B. SEE PLANS, SECTIONS, SCHEDULES AND ADDITIONAL DETAILS FOR MORE MATERIAL AND FINISH INFORMATION.
- C. ENSURE THAT ALL REQUIRED FIXTURE AND CABINET CLEARANCES AND OTHER REQUIREMENTS ARE MAINTAINED PURSUANT TO ADAAG AND ANSI A117.1. SEE **G700** SERIES SHEETS FOR GENERAL GUIDANCE ON COMMON MOUNTING HEIGHTS.
- D. WHERE THE FINISH SCHEDULE OR INTERIOR ELEVATIONS CALL FOR TILE, REPLACE GYPSUM BOARD SHOWN IN THE WALL'S ASSEMBLY WITH TILE BACKER BOARD WHERE TILE OCCURS. REPLACE OTHER GYPSUM BOARD SHOWN IN THAT WALL'S ASSEMBLY WITH MOISTURE RESISTANT GYPSUM BOARD WHERE NO TILE OCCURS.
- E. PROVIDE BACKING / SUPPORT FOR ALL MOUNTED FIXTURES, EQUIPMENT, CASEWORK, AND/OR SYSTEMS FURNITURE. COORDINATE WITH FLOOR PLANS, AND INTERIOR ELEVATIONS PRIOR TO THE COVERING OF STUD FRAMING. REFER TO MANUFACTURER'S RECOMMENDATIONS WHERE APPLICABLE, OTHERWISE REFER TO DETAILS ON A700 SHEET SERIES.
- F. ON ALL EXPOSED CABINET SIDES, INCLUDING KNEE OPENINGS, PROVIDE FINISHED FACE TO MATCH CABINET FRONTS.
- G. WHERE BACKSPLASHES ARE NOTED, PROVIDE SIDESPLASHES WHENEVER COUNTERTOPS ARE ADJACENT TO WALLS.
- H. ALL MILLWORK LOCK/KEYING TO BE COORDINATED WITH OWNER & ARCHITECT.
- I. THE CONTRACTOR IS TO COORDINATE WALK THROUGH(S) WITH THE OWNER AND THE ARCHITECT TO REVIEW PLACEMENT OF ELECTRICAL, MECHANICAL AND OTHER EQUIPMENT ITEMS FOR KEY ROOMS. SCHEDULING OF ROOM REVIEWS SHOULD BE
- COORDINATED DURING THE OAC MEETINGS. J. DO NOT SCALE DRAWINGS.

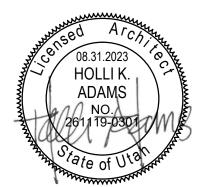
	KEYNOTE LEGEND					
TAG	KEYNOTE TEXT					
08:AD1	ACCESS DOOR FOR CONDENSATE ACCESS, COORDINATE WITH PLUMBING DRAWINGS, CONTRACTOR TO VERIFY BEST LOCATION IN FIELD					
10:CT1	QUARTZ COUNTERTOP AND BACKSPLASH; COORDINATE WITH FINISH SCHEDULE					
10:SD1	SOAP DISPENSER, OPCI; COORDINATE LOCATION AND OPENING SIZE IN COUNTERTOP WITH OWNER					
22:SI1	UNDERMOUNT SINK; COORDINATE WITH MECHANICAL DRAWINGS					
22:SI2	WALL HUNG SINK; COORDINATE WITH MECHANICAL DRAWINGS					
22:TT1	WALL MOUNT TOILET					



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#	Date	Revision
1	10.16.23	Plan Review 01
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### CONSTRUCTION DOCUMENTS (BP-2, P.I)

NEXUS PROJECT #: 22070 CHECKED BY: Checker DRAWN BY: Author DATE: 31 AUGUST 2023

INTERIOR **ELEVATIONS** AND DOOR **SCHEDULES &** TYPES

A251



Corporate Office Salt Lake City 181 East 5600 South Murray, UT 84107 T 801 530 3148 **St. George** 230 N. 1680 E. Building V St. George, UT 84770 T 435 674 4800 Logan 40 W. Cache Valley Blvd. Building 1, Suite B Logan, UT 84341 T 435 752 5081 Arizona 1602 S. Priest Drive Suite #103 Tempe, AZ 85281 T 480 889 5075

Date: 10-16-23 Project No: 22070 Project: CLARK PLANETARIUM NEW SPACE TENANT IMPROVEMENT Revision: PLAN REVIEW 01

Plan Review Response - The following revisions/clarifications were made in response to plan review comments by city or other authorities and shall be included as an integral part of the Contract Documents for the above-listed project and shall be fully binding.

#### **DIVISION - 22, 23**

#### **DRAWINGS**

#### Sheet: M001 - LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

• UPDATED SHEET INDEX, ADDED M102 - MECHANICAL ROOF PLAN

#### Sheet: M101 - MECHANICAL FLOOR PLAN

- ADDED KEYED NOTES 3 AND 4 REGARDING DAMPER INFORMATION.
- ADDED KEYED NOTE 4 TO CLARIFY DAMPER OPERATION.
- ADDED KEYED NOTE 3 AND CFM TO DAMPERS.
- CLARIFIED KEYED NOTE 1 ABOUT DUCT ROUTING TO ROOF HOOD.
- ADDED DCP-1. REFERENCE PLUMBING PLANS AND DETAILS.

#### Sheet: M102 - MECHANICAL ROOF PLAN

• ADDED SHEET M102 - MECHANICAL ROOF PLAN. ROOF EQUIPMENT SHOWN ON THIS PLAN.

#### Sheet: M501 - MECHANICAL DETAILS

- ADDED 2-WAY CONTROL VALVE TO COIL PIPING DETAIL.
- CLARIFIED STRAINER NOTE.
- CLARIFIED NOTE ON ROOF HOOD DETAIL.
- ADDED ROOF MOUNTED SPLIT SYSTEM CONDENSING UNIT DETAIL.

#### Sheet: M601 - MECHANICAL SCHEDULES

- UPDATED FLUID MEDIA FOR COOLING AND HEATING IN FAN COIL SCHEDULE.
- CLARIFIED NOTE 2 ON HOOD SCHEDULE.
- SWR-1 OMITTED ON GRILLES, REGISTERS AND DIFFUSERS SCHEDULE.

#### Sheet: MP101 - MECH. PIPING FLOOR PLAN

- UPDATED LOCATION OF UNIT TO SHOW ON ROOF PLAN. ADDED KEYED NOTE 3.
- CLARIFIED KEYED NOTE 2 AND ADDED KEYED NOTE 3.

#### Sheet: PD100 - PLUMBING DEMOLISTION FLOOR PLAN

- ADDED KEYED NOTE 6 TO DEMOLISH CONDENSATE DRAIN PIPE.
- CLARIFIED KEYED NOTE 1.
- ADDED KEYED NOTE 6.

#### Sheet: P101 - PLUMBING FLOOR PLAN

- ADDED CONDENSATE DRAIN TO FC-2. ADDED DOMESTIC COLD AND HOT WATER, WASTE AND VENT PIPING TO L-2(S). UPDATED PIPE SIZE CALLOUTS AS REQUIRED.
- ADDED CONDENSATE DRAIN PIPE TO FC-1 AND CLARIFIED PIPE SIZE.
- ADDED KEYED NOTE 7 TO REFERENCE PLUMIBNG DETAILS FOR PIPING CONFIGURATION OF WATER HEATER(E), DCP-1 AND DOMESTIC EXPANSION TANK(E).
- ADDED KEYED NOTE 7 AND DCP-1.

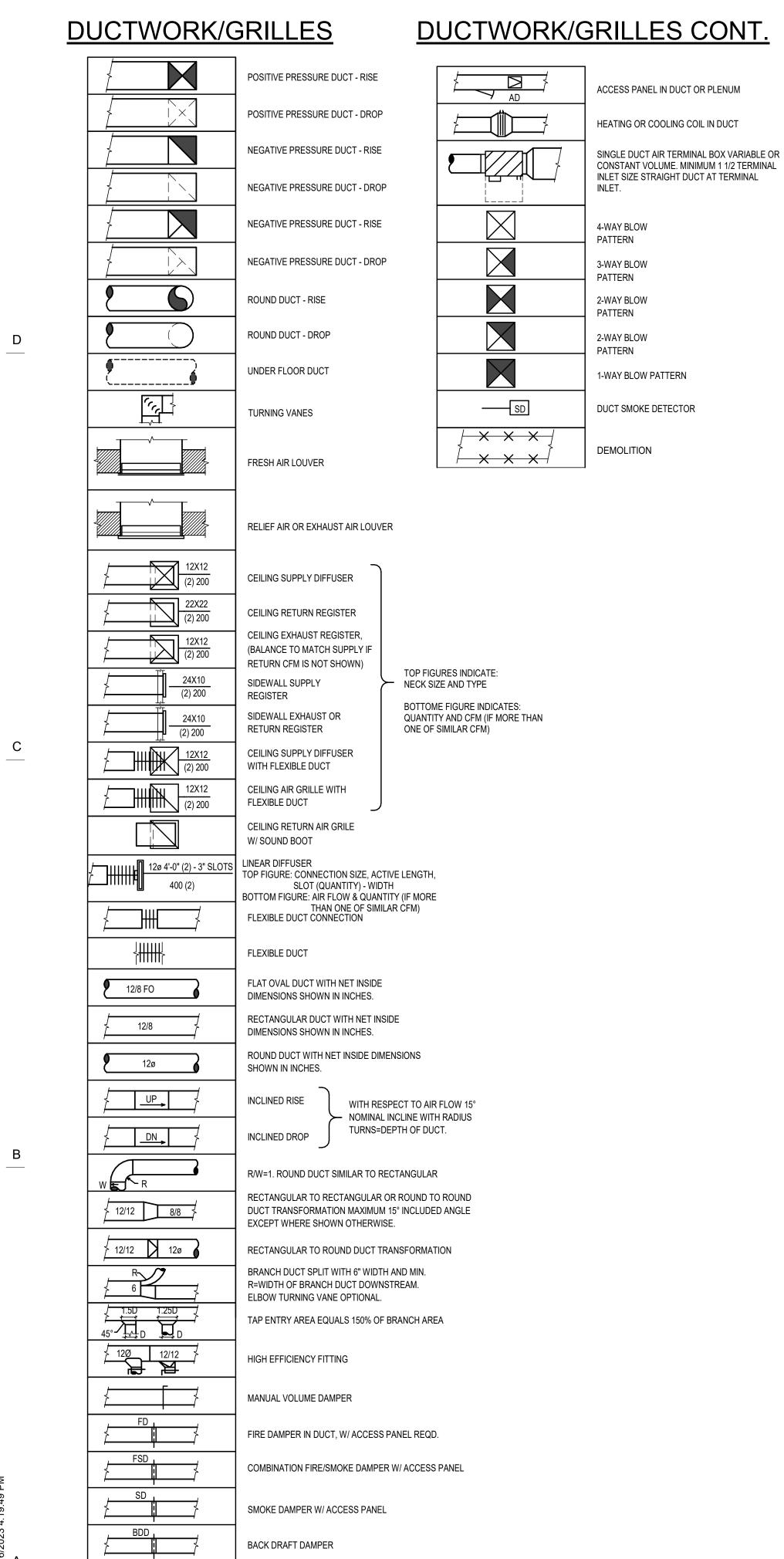
#### Sheet: P501 - PLUMBING DETAILS

• UPDATED AQUASTAT CALLOUT.

#### Sheet: P601 - PLUMBING SCHEDULES

- UPDATED/ADDED ACCESSORIES TO PROVIDE MIXING VALVE TO L-1.
- ADDED L-2 TO PLUMBING FIXTURE SCHEDULE.

End of Plan Review Response.



ATC 🖵

OR I

ATC DAMPER

## **LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS**

### PIPING

	OR
ЩФ́Ш	- OR
	- OR
	- OR
	OR
1	- OR
	- OR
	- OR
	F&T
-	RPBP
	- OR
0.0 GF	PM
	- OR
	- OR
	- OR - \ MLB/HR.
	- ├ႍ M ` _ LB/HR
	 MLB/HR
	 M:LB/HR OR
	OR —

SHUT OFF VALVE
BALL VALVE
RUTTERFLY VALVE MOTOR OPERATED BUTTERFLY VALVE
GATE VALVE
GATE VALVE - NON RISING STEM
ANGLE VALVE
GLOBE VALVE
PLUG VALVE

SHUT OFF PLUG VALVE FOR **USE WITH PRESSURE GAUGE** 

CHECK VALVE

LATERAL STRAINER WITH BLOW-OFF VALVE, PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN F&T=FLOAT & THERMOSTATIC

REDUCED PRESSURE BACKFLOW PREVENTOR W/ DRAIN PAN PRESSURE REDUCING VALVE

PRESSURE REDUCING VALVE SELF CONTAINED

ATC - 2 WAY VALVE

EXTERNAL PRESSURE

ATC - 3 WAY VALVE

SOLENOID VALVE

CALIBRATED BALANCING VALVE WITH GPM INDICATED

VENTURI FLOW METER

FLOW METER ORIFICE

RELIEF VALVE

AIR VENT-MANUAL

**AIR VENT-AUTO** 

FLOW SWITCH

PRESSURE SWITCH

TEMPERATURE AND PRESSURE TEST PORT

THERMOMETER WELL THERMOMETER -TEMPERATURE RANGE AS INDICATED

PRESSURE GAUGE WITH SHUT OFF PLUG VALVE

PRESSURE GAUGE WITH PIGTAIL

UNION

FLANGE

FLEXIBLE EXPANSION JOINT

REDUCER

ECCENTRIC REDUCER

**BRANCH - BOTTOM CONNECTION** 

**BRANCH - TOP CONNECTION** 

BRANCH - SIDE CONNECTION

### **PIPING CONT**

c	
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<b>DN</b>	
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OR	
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PLUMBING

RISE OR DROP	
RISER - DOWN (ELBOW)	
RISER - UP (ELBOW)	
PIPE CAP	
ARROW INDICATES DIRECTION OF FLOW IN PIPE	
LEADER INDICATES DOWNWORD SLOPE	
VALVE IN RISE	
90° ELBOW	
45° ELBOW	

ALIGNMENT GUIDE

ANCHOR

### $\Box$ THERMOSTATIC MIXING VALVE _____ə× HOSE BIBB FLOOR SINK ⊜ FLOOR DRAIN ____ф^{FCO} FLOOR CLEAN-OUT OR CLEAN-OUT TO COTG GRADE ROOF DRAIN 0 DOWNSPOUT NOZZLE **O** VTR VENT THRU ROOF WATER HAMMER ARRESTOR CLEAN-OUT -----FILL PORT DRAIN PAN AND P-TRAP (NAME) FIXTURE FROM LEVEL ABOVE $- \times \times \times$ DEMOLITION

<u>/</u>	
	<u>P-1</u>
	Ø
	A M-101
	A M101
	$\left\langle \begin{array}{c} XX \\ X \end{array} \right\rangle$
	$\begin{array}{c} \hline X-X-X \\ \hline X \end{array}$
	$\langle 1 \rangle$
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	FIRE SPRINKLER W
N	S
_	
	PLUMBING FIXTURES
	POINT OF CONNECTION
	<u>SECTION TAG</u> TOP FIGURE: SECTIO BOTTOM FIGURE: SH
	<u>DETAIL TAG</u> TOP FIGURE: DETAIL BOTTOM FIGURE: SH

DETAIL TAG TOP FIGURE: EQUIPME BOTTOM FIGURE: UNIT

EQUIPMENT IDENTIFIC TOP FIGURE: EQUIPM BOTTOM FIGURE: UNIT

KEYED NOTE IDENTIFIC SWITCH

SENSOR

THERMOSTAT

NIGHT THERMOSTAT

### **LINETYPES**

CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	DOMESTIC HOT WATER RETURN (DHWR)
E(NAME)	EXISTING PIPING
——————————————————————————————————————	EXISTING PIPING TO BE REMOVED
G	NATURAL GAS
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
	WASTE (BELOW GRADE)
W	WASTE (ABOVE GRADE)
	VENT (WASTE)

UNIT HEATER

INLINE PUMP

INLINE PUMP

**FIRE RISER** 

SPRINKLER HEAD

FAN

EQUIPMENT

<u>FIRE</u>

 $\nabla$ 

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_____F_____

	SHEET INDEX
SHEET NUMBER	SHEET TITLE
M001	LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS
M002	MECHANICAL GENERAL NOTES
MD100	MECHANICAL DEMOLITION FLOOR PLAN
MIDI	MECHANICALIFLOOR PLAN
M102	MECHANICAL ROOF PLAN
M5Q1	MEQHADICALDETAILS, M, M, M
M601	MECHANICAL SCHEDULES
M801	MECHANICAL ZONE PLAN
MPD100	MECH. PIPING DEMOLITION FLOOR PLAN
MP101	MECH. PIPING FLOOR PLAN
PD100	PLUMBING DEMOLISTION FLOOR PLAN
P101	PLUMBING FLOOR PLAN
P501	PLUMBING DETAILS
P601	PLUMBING SCHEDULES

WATER



ON NUMBER HEET NUMBER	AC AD AD
	AF AL
	AP AR
_ NUMBER HEET NUMBER	BFI BTI
	BT
	СВ
	CF CO
NIT NUMBER	DC DB
	DIA DN
FICATON MENT TYPE AND NUMBER	DW EA
NIT SIZE	ELI EQ
IFICATION	EW
	ΕA
	F FC
	FD FD
	FO FO
	FO FO
	FP

ABOVE FINISHED FLOOR ALTERNATE ACCESS PANEL RCH ARCHITECT/ARCHITECTURAL FF BELOW FINISHED FLOOR BRITISH THERMAL UNITS τu CAPACITY CATCH BASIN FM CUBIC FEET PER MINUTE CLEAN OUT CW DOMESTIC COLD WATER DRY BULB DIAMETER DOWN DISTILLED WATER ENTERING AIR TEMPERATURE EC ELECTRICAL QUIP EQUIPMENT NC ELECTRIC WATER COOLER NT ENTERING WATER TEMPERATURE EXHAUST AIR DEGREES FAHRENHEIT CO FLOOR CLEAN OUT FLOOR DRAIN DV FIRE DEPARTMENT VALVE FUEL OIL FUEL OIL VENT )V R FUEL OIL RETURN FUEL OIL SUPPLY PM FEET PER MINUTE FS FLOOR SINK FT FOOT/FEET FIN TUBE RADIATION FTR GAL GALLON GENERAL CONTRACTOR GC GALLONS PER MINUTE GPM GREASE WASTE GW HOSE BIB HB HP HORSE POWER DHW DOMESTIC HOT WATER HYD HYDRANT ID INDIRECT INCH IN INV/IE INVERT LB POUND LB/HR POUNDS PER HOUR

ROUND

AIR CONDITIONING

AREA DRAIN

ADDENDUM

Ø

AC

#### LWT LEAVING WATER TEMPERATURE MA MIXED AIR MAX MAXIMUM MBH ONE THOUSAND BTU PER HOUR MCF ONE THOUSAND CUBIC FEET MECH MECHANICAL MANUFACTURER MFR MINIMUM MIN MISC MISCELLANEOUS MAKE-UP/AIR MUA NC NORMALLY CLOSED NFH NON FREEZE HYDRANT NIC NOT IN CONTRACT NO NUMBER NO NORMALLY OPEN NTS NOT TO SCALE 0 OXYGEN OUTSIDE AIR OA PRESSURE DROP PD PLBG PLUMBING PRESSURE REDUCING VALVE PRV POUNDS PER SQUARE INCH PSI PSIG POUNDS PER SQUARE INCH GAUGE RA **RETURN AIR** RCP RADIANT CEILING PANEL RD ROOF DRAIN RDO ROOF DRAIN OVERFLOW RH RELATIVE HUMIDITY RELIEF AIR RLA RM ROOM **REVOLUTIONS PER MINUTE** RPM RAIN WATER RW SF SQUARE FOOT SUPPLY AIR S/A SAN SANITARY SF SQUARE FOOT SMOKE DAMPER SD SURFACE MOUNT SM SP STANDPIPE STATIC PRESSURE SP STM STEAM THERMOSTAT TEMPERATURE DROP TD TD TRENCH DRAIN TEMP TEMPERATURE TYP TYPICAL VAC VACUUM VENT V VAV VARIABLE AIR VOLUME

- VTR VENT THROUGH ROOF WASTE
- WB WET BULB WCO WALL CLEAN OUT

### **EQUIPMENT ABBREVIATIONS**

AC CU AHU AS B CH CT CUH CHWP DCP DCP EF ED	AIR CONDITIONING UNIT AIR COOLING CONDENSING UNIT AIR HANDLING UNIT AIR SEPARATOR BOILER CHILLER COOLING TOWER CABINET UNIT HEATER CHILLED WATER PUMP DOMESTIC WATER BOOSTER PUMP DUCT MOUNTED COIL DOMESTIC WATER CIRCULATING PUMP EXHAUST FAN ELECTRIC DUCT HEATER	ET EWH FC FP GI GRV HWP HR PRV RE RTU SP UH WH
---------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------

- TER SUPPLY
- RADE)
- RADE)



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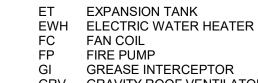
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### LEGEND OF **MECHANICAL** SYMBOLS AND **ABBREVIATIONS**

181 East 5600 South Murray, Utah 84107 O: (801)530-3148 VBFA Project #: 23206

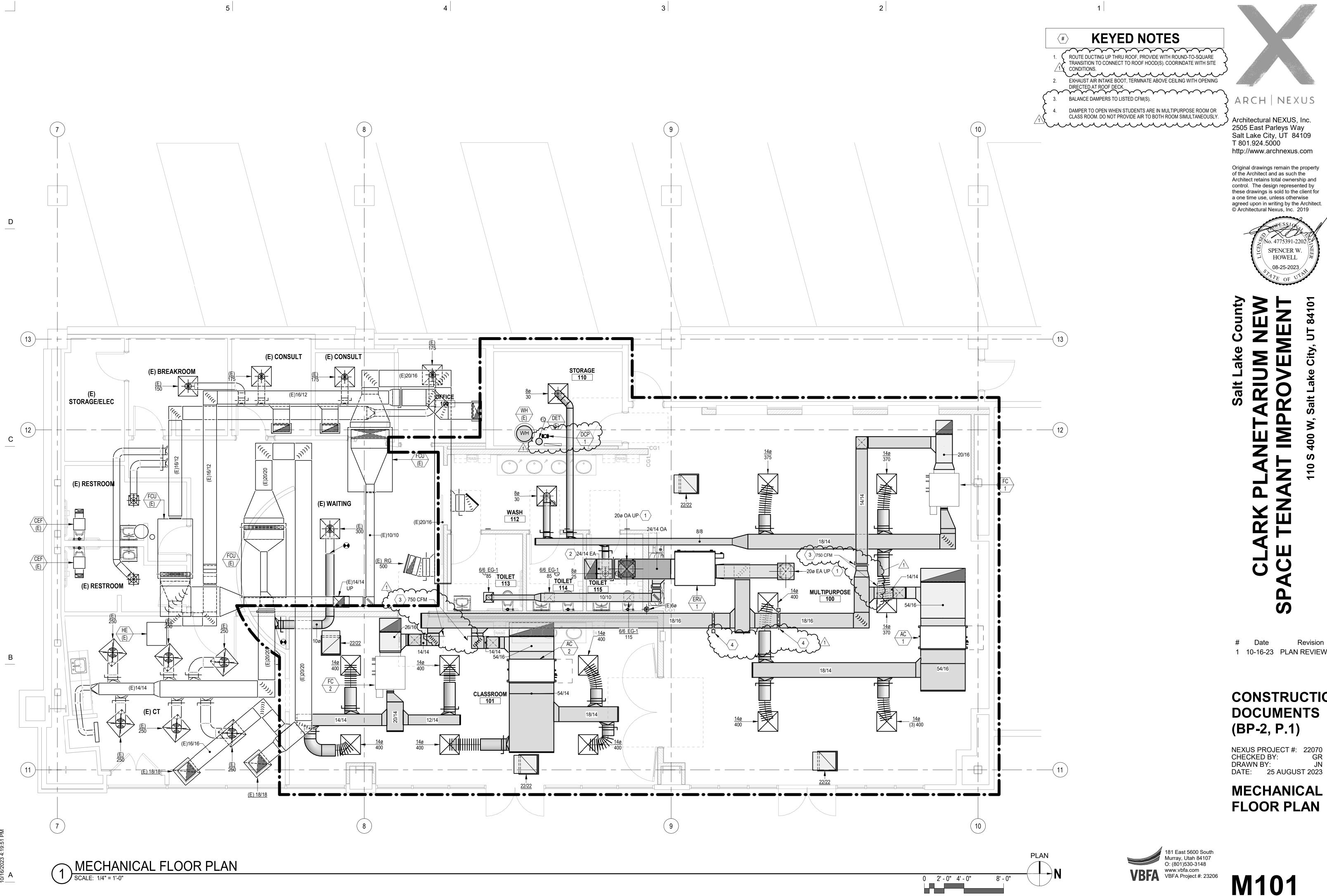




GREASE INTERCEPTOR GRAVITY ROOF VENTILATOR HEATING WATER PUMP HEAT RECOVERY UNIT POWER ROOF VENTILATOR RETURN/EXHAUST FAN **ROOFTOP UNIT** SUMP PUMP UNIT HEATER WATER HEATER

## **ABBREVIATIONS**

TUH BRITISH THERMAL UNITS PER HOUR W LAT LEAVING AIR TEMPERATURE LPG LIQUEFIED PETROLEUM GAS

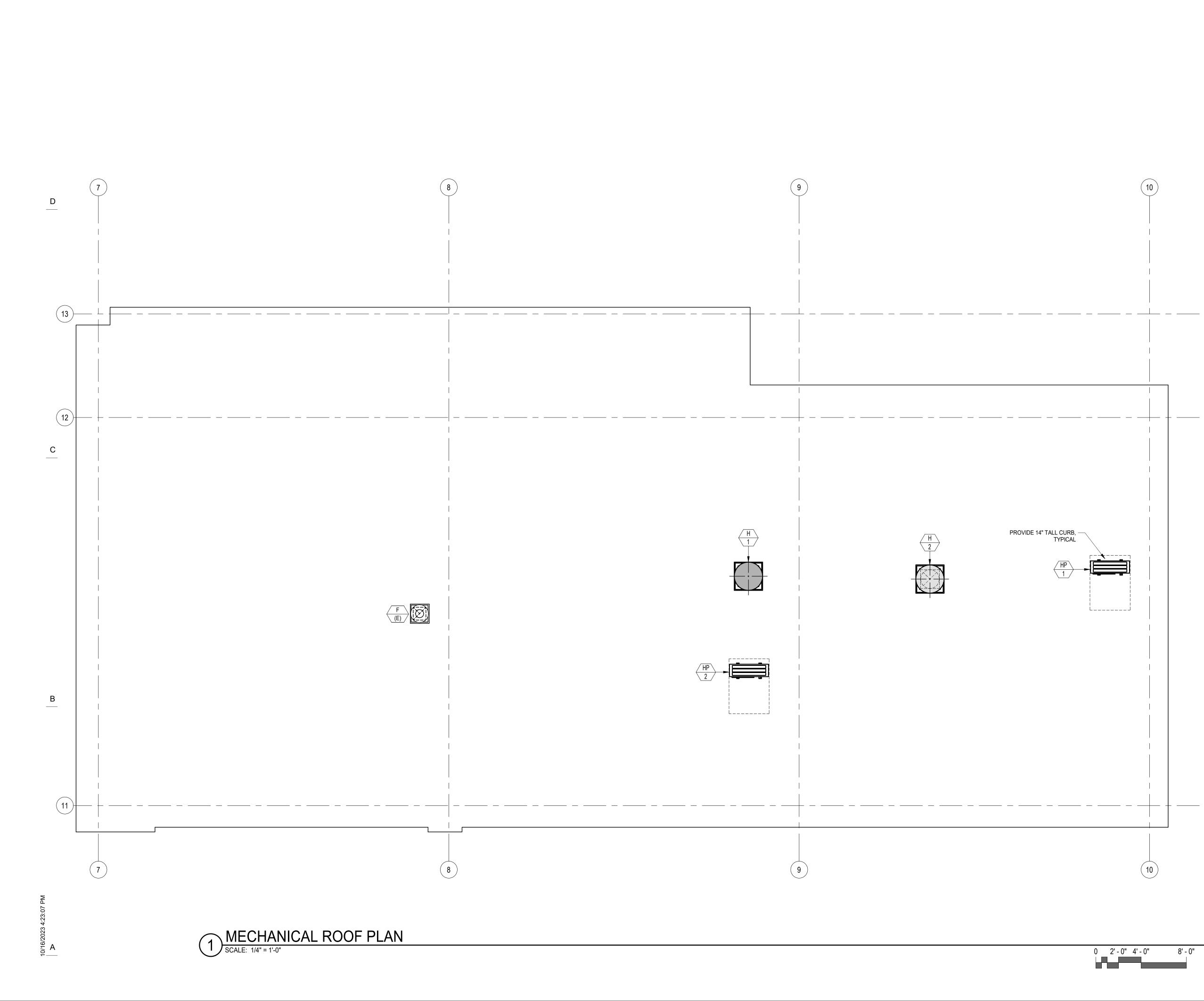


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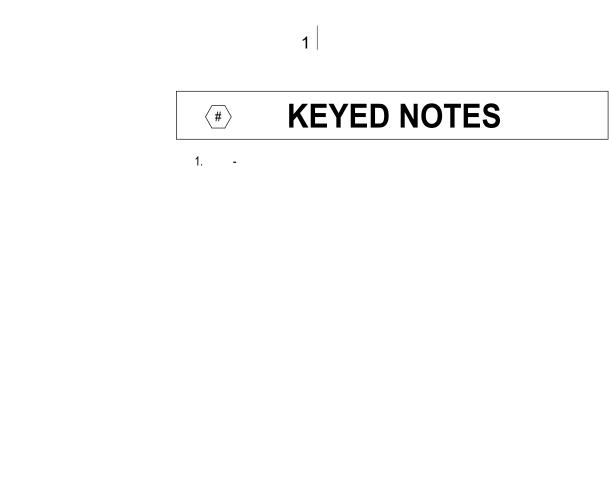
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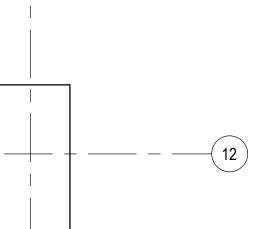
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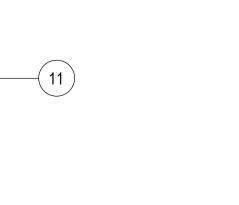






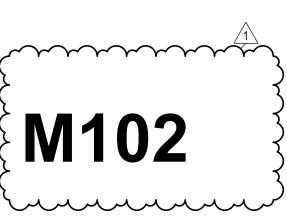


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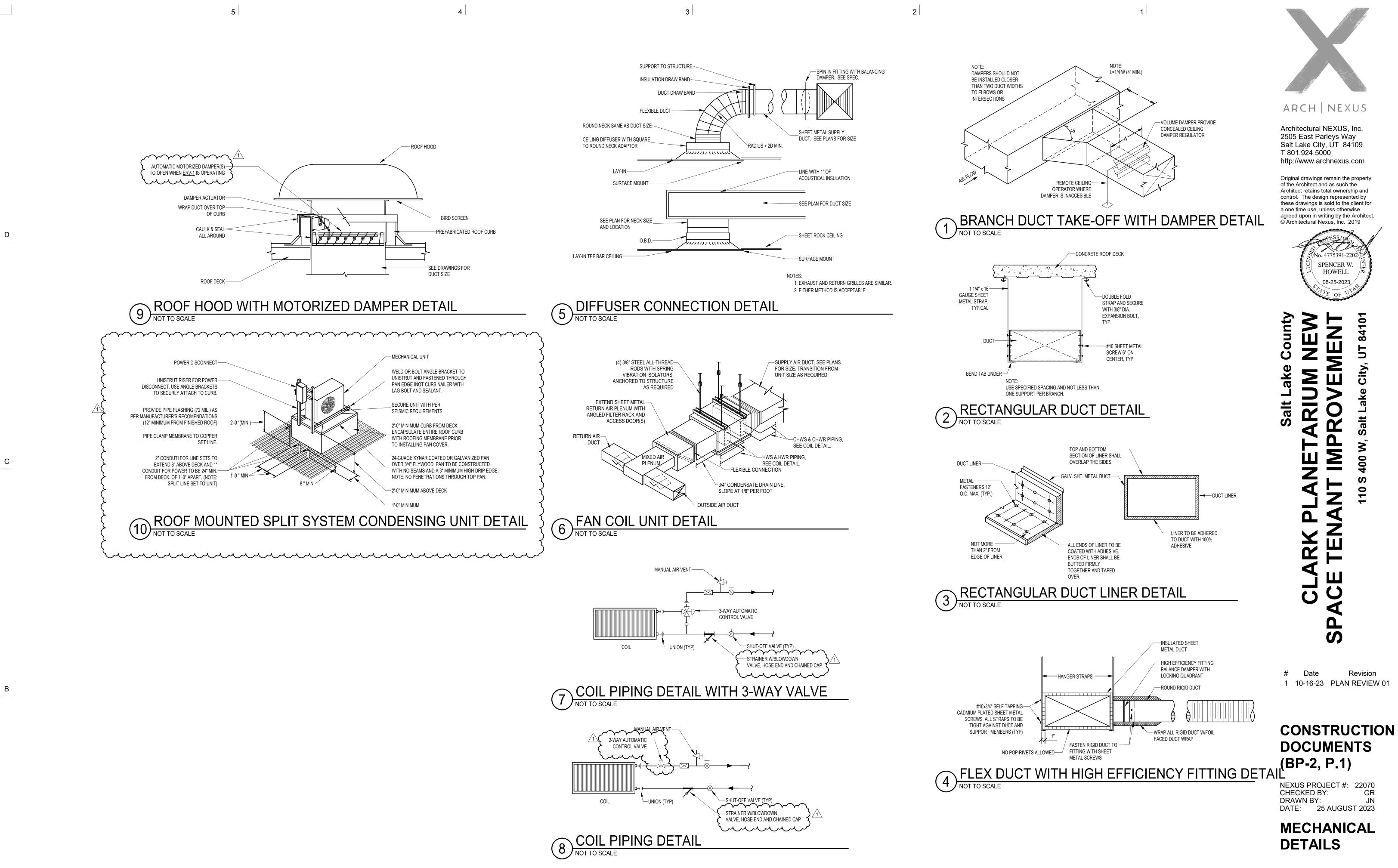


o 4775391-2 SPENCER W. HOWELL 08-25-2023



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											FAN	COIL	SCHEI	DULE																
			AIR		COOLING									HEATING										ELECTRIC	CAL					
			MAXIMUM	EXTERNAL																										
	MANUFACTURER		AIRFLOW	STATIC	TOTAL	SENSIBLE					FLUID	PIPE							FLUID	PIPE			FILTER	MOTOR						
	AND		RATE	PRESSURE	LOAD	LOAD	EAT	LAT	EWT/LWT	FLOW	P.D.	SIZE	FILOD	LOAD	EAT	LAT	EWT/LWT	FLOW	P.D.	SIZE	FIGO	FILTER	SIZE	SIZE					WEIGHT	
ID	MODEL NUMBER	TYPE	(CFM)	(IN. WATER)	(MBH)	(MBH)	(DB/WB)	(DB/WB)	(°F)	(GPM)	(FT. WG)	(IN) (	MEDIA	(MBH)	(°F)	(°F)	(°F)	(GPM)	(FT. WG)	(IN)	MEDIA	EFFICENCY	(IN)	(HP)	FLA	MCA	MOCP	VOLT/PH/HZ	(LBS)	NOTES
FC-1	ENVIRO-TEC HDD16	4 PIPE, HORIZONTAL	1200	0.5	30.5	29.6	80 / 62	53.1 / 52.4	45 / 55	6.2	0.96	1 (	10% PG 🎗	45.3	54	93.5	180 / 160	4.6	0.65	1	10% PG	MERV 8	(2)2	1/2	5	6.25	15	208/1/60	380	1,2,3
FC-2	ENVIRO-TEC HDD16	4 PIPE, HORIZONTAL	1200	0.5	30.5	29.6	80 / 62	53.1 / 52.4	45 / 55	6.2	0.96	1	10% PG	45.3	54	93.5	180 / 160	4.6	0.65	1	🖌 10% PG 🖣	MERV 8	(2)2	1/2	5	6.25	15	208/1/60	380	1,2,3
																					{									
																						$\backslash$								
1. PERFORMA	NCE LISTED AT 4200 FT ELEVATION											L	1								<u></u>									

1. PERFORMANCE LISTED AT 4200 FT ELEVATION. 2. PROVIDE WITH COIL FACE INSUALTION, IAQ GALVANZIED DRAIN PAN, EC MOTOR. COORDINATE LEFT OR RIGHT HAND CONNECTIONS. 3. DISCONNECT PROVIDED AND INSTALL BY DIV. 26.

> MANUFACTURER AND MODEL NUMBER ID RENEWAIRE ERV-1 HE-2XJINH-S15UU---ANT---L

1. PERFORMANCE LISTED AT 4,200 FEET ELEVATION. 2. PROVDIE WITH MOTOR STARTERS & CONTACTORS, TRANSFORMER WITH ISOLATION RELEY. 3. PROVIDE WITH PRE-WIRED FACTORY DISCONNECT. 4. PROVIDE WITH SUPPLY AIRFLOW CONTROL OPTION.

								SPL	IT SYSTEM										
				TOTAL COOLING	SENSIBLE	TOTAL HEATING	HEATING	INDOOR UNIT				OUTDOOR UNIT					REFRIGERAN	T LINES	
		MODEL NUMBER	MODEL NUMBER	CAPACITY	COOLING	CAPACITY	CAPACITY @ 47°F	CFM	DIMENSIONS	WEIGHT	AMPS	DIMENSIONS	WEIGHT	AMPS					
ID	MANUFACTURER	INDOOR UNIT	OUTDOOR UNIT	(BTU/H)	(BTU/H)	(BTU/H)	(BTU/H)	RANGE	W" x D" x H"	(LBS.)	(MCA)	W" x D" x H"	(LBS.)	(MCA)	MOCP	VOLTS/PH/HZ.	LIQUID	GAS	NOTES
AC-1 / HP-1	MITSUBISHI	PEAD-A42AA7	PUZ-HA42NKA1	42,000	26,524	35,000	48,000	1040-1480	55-1/8 x 28-7/8 x 9-7/8	110	3.5	41-5/1/6 x 14-3/16 x 52-11/16	340	36	44	208-230/1/60	3/8	5/8	1-8
AC-2 / HP-2	MITSUBISHI	PEAD-A42AA7	PUZ-HA42NKA1	42,000	26,524	35,000	48,000	1040-1480	55-1/8 x 28-7/8 x 9-7/8	110	3.5	41-5/1/6 x 14-3/16 x 52-11/16	340	36	44	208-230/1/60	3/8	5/8	1-8

1. CAPACITIES LISTED ARE AT 4,200 FEET ELEVATION.

5. R410A REFRIGERANT.

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2

4. PROVIDE WITH EC MOTOR, TRANSFORMERS AND RELAYS AS REQUIRED, VALVE PACKAGE, ELASTORMERIC CLOSED CELL FOAM INSULATION, GALVANIZED DRAIN PAN.

						AIR	-TO-AIR	ENERGY	RECOV	<b>ERY SCH</b>	EDULE										
		OUTSIDE/SUPPLY	•	1			RETURN/EXHA	UST		1	EFFECTIVE			ELECTRICAL			1		PHYSICAL		
		TOTAL/ SENSIBLE	AIRFLOW	ENTERING TEMP.	LEAVING TEMP.	STATIC	AIRFLOW	ENTERING TEMP.	LEAVING TEMP.	STATIC	SENSIBLE/			SUPPLY MOTOR	EXHAUST MOTOR				LENGTH/ WIDTH/		
TYPE	USAGE	LOAD (BTU/H)	RATE (CFM)	DB/WB (°F)	DB/WB (°F)	PRESSURE (IN. WATER)	RATE (CFM)	DB/WB (°F)	DB/WB (°F)	PRESSURE (IN. WATER)	LATENT (%)	EXHAUST FILTER	SUPPLY FILTER	SIZE (HP)	SIZE (HP)	MCA	MOCP	V/PH/HZ	HEIGHT (IN)	WEIGHT (LBS)	NOTE
PLATE	COOL HEAT	69,658 / 36,774 46,387 / 37,394	1,500 1,500	97.7 / 62.8 0 / 0	82.5 / 59.3 46.9 / 37.4	0.5 0.5	1,350 1,350	75 / 61.9 70 / 50	N/A N/A	0.5	- 74.5 / N/A	2" MERV 8	2" MERV 8	2	2	18.5	25	208/1/60	64.25 / 35.5 / 42.875	700	1-4
		, ,					,														1

2. CAPACITIES RATED AT THE FOLLOWING OUTDOOR CONDITIONS: COOLING - 95 DEG. F. D.B., 75 DEG. F. W.B. HEATING - 40 DEG F DB 3. CAPACITIES RATED AT THE FOLLOWING INDOOR CONDITIONS: COOLING - 80 DEG. F. D.B., 67 DEG. F. W.B., HEATING - 70 DEG F DB

4. PROVIDE LOW AMBIENT HEAD CONTROLLER TO ALLOW COOLING OPERATION DOWN TO 0 DEG. F. D.B.

6. WIRELESS REMOTE CONTROLLER. PROVIDE WALL MOUNTED HOLDER.

7. PROVIDE ACCESSORY BLUE DIAMOND MAXIBLUE CONDENSATE PUMP 110V/ 1PH, WITH RESERVOIR AND SENSOR FOR INDOOR UNIT. 8. DISCONNECT PROVIDED AND INSTALLED BY DIV. 26.

					HOOD 20	CHEDULE							
					AIR			PHYSICAL					
								INLET					
					MAXIMUM			HEIGHT					
	MANUFACTURER				AIRFLOW	STATIC	THROAT	ABOVE	TOTAL	THROAT	OVERALL		
	AND			AIR	RATE	PRESSURE	VELOCITY	ROOF	HEIGHT	DIA	DIA	WEIGHT	
ID	MODEL NUMBER	LOCATION	TYPE	TYPE	(CFM)	(IN. WATER)	(FPM)	(IN)	(IN)	(IN)	(IN)	(LBS)	NOTE
H-1	GREENHECK GRSI-20	ROOF	SPUN ALUMINUM	INTAKE	1,500	0.075	667	14	27	30	30	30	1,2,3
H-2	GREENHECK GRSR-20	ROOF	SPUN ALUMINUM	RELIEF	1,500	0.075	667	14	27	30	30	30	1,2,3

1. PERFORMANCE LISTED AT 4,200 FEET ELEVATION. 2. PROVIDE WITH 14" TALL ROOF CURB AND 120V MOTORIZED DAMPER. (DAMPERS TO OPEN WHEN ERV-1 IS OPERATIONAL). mmm 3. VERIFY COLOR WITH ARCHITECT.

			MAX	
ID	MANUFACTURER	MODEL	NC	DESCRIPTION
				MOUNTING-FRAME: SURFACE OR LAY-IN,
			FACE STYLE: SQUARE PLAQUE DIFFUSER	(C/W CEILING TYPE.)
			FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS	PATTERN: 360° RADIAL HORIZONTAL AIR PATTERN
CD-1	PRICE	SPD	REQUIRED TO FIT CEILING TILE SPACE AVAILABLE	DAMPER: OPPOSED BLADE
			APPLICATION: ENGINEERED VAV SYSTEMS	MAX NC - 30
			MATERIAL: STEEL	DAMPER: NONE
			FINISH: COORDINATE COLOR WITH ARCHITECT	REMOVABLE FACE
			FACE STYLE: PERFORATED RETURN AIR UNIT	MOUNTING-FRAME: SURFACE OR LAY-IN,
			FACE SIZE: 24" x 24", 16" x 16" OR 12" x 12" AS	(C/W CEILING TYPE.)
RG-1 / EG-1	PRICE	PDDR	REQUIRED TO FIT CEILING TILE SPACE AVAILABLE.	DAMPER: NONE
			APPLICATION: AIR RETURN	MAX NC - 30
			MATERIAL: STEEL	REMOVABLE FACE & CORE
			FINISH: COORDINATE COLOR WITH ARCHITECT	MAX VELCOTIY: 500 FPM
			FACE STYLE: DOUBLE DEFLECTION HIGH SIDEWALL SUPPLY REGISTER APPLICATION: CONSTANT VOLUME	FINISH: COORDINATE COLOR WITH ARCHITECT FRAME: 1.25" BORDER MOUNTING: SURFACE
SWS-1	PRICE	520S	BLADE ORIENTATION: VERTICAL FRONT WITH	PATTERN: ADJUSTIBLE
			REAR HORZONTAL ADJUSTABLE VANES,	DAMPER: OPPOSED BLADE
			FRONT BLADES PARALLEL TO SHORT DIMENSION.	MAX NC 30
			MATERIAL: STEEL	CORE: REMOVABLE
SWR-1	OMITTED			

1. ALL SUPPLY GRILES ARE TO BE CD-1, ALL RETURN GRILLES ARE TO BE RG-1, ALL EXHAUST GRILLES ARE TO BE EG-1, UNLESS OTHERWISED NOTED. 2. ALL DUCT RUNOUT TO DIFFUSERS, GRILLES, REGISTERS ARE TO BE NECK SIZE, UNLESS OTHERWISED NOTED.



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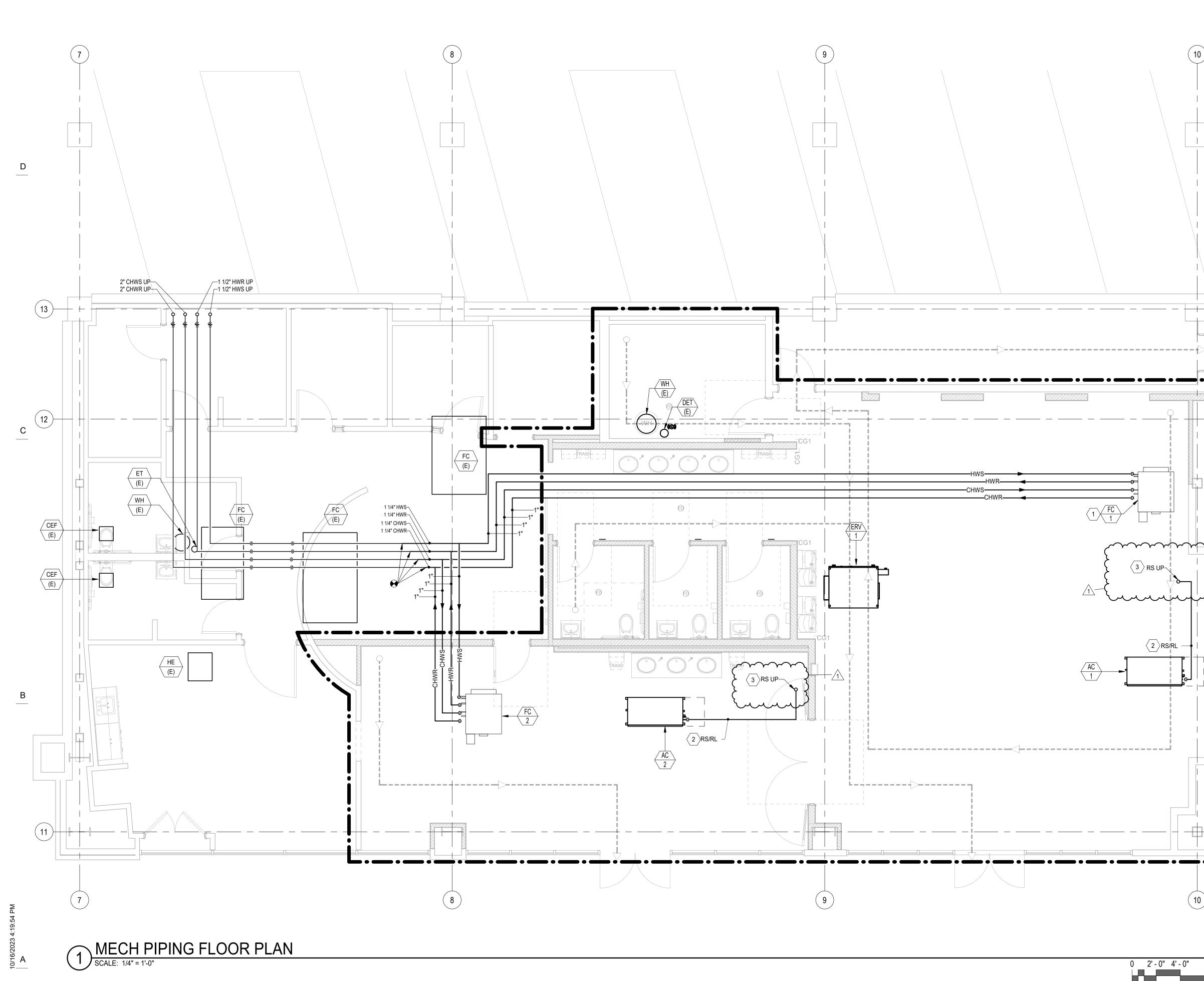
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MECHANICAL SCHEDULES









-----PIPING SERVING FAN COIL UNIT SINGLE LINE SHOWN FOR CLARITY. PROVIDE RS/RL PIPING AS REQUIRED. SIZE REFRIGERANT PIPING PER MANUFACTURERS RECOMMENDATIONS.

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(10)

ROUTE REFRIGERANT PIPING UP TO OUTDOOR UNIT AT THIS LOCATION. ··················



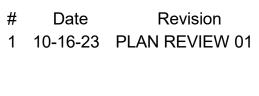
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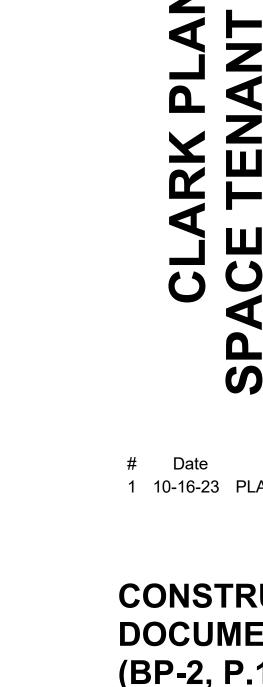


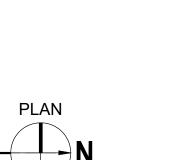


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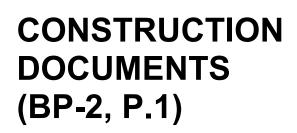




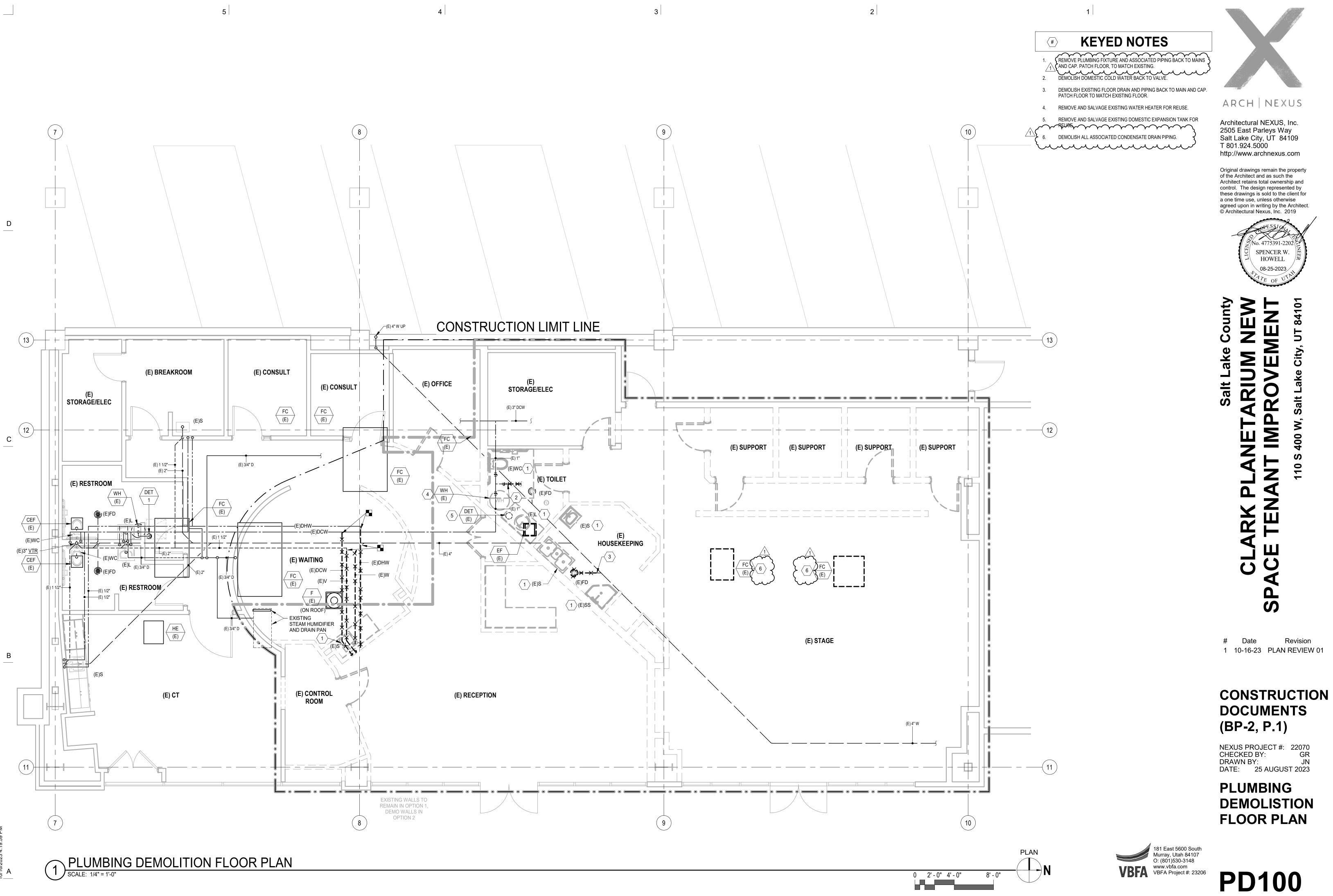
**MP101** 

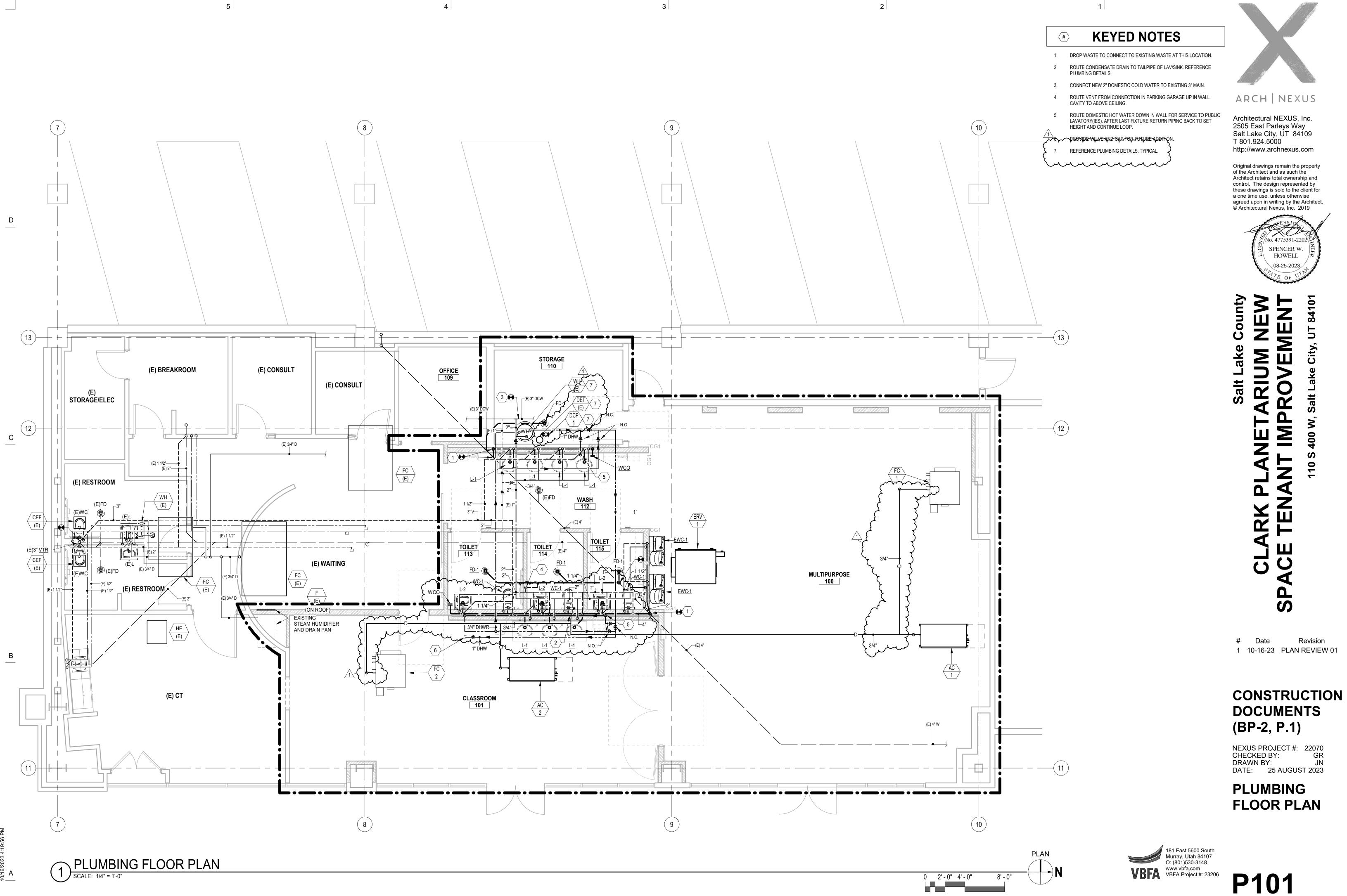
MECH. PIPING

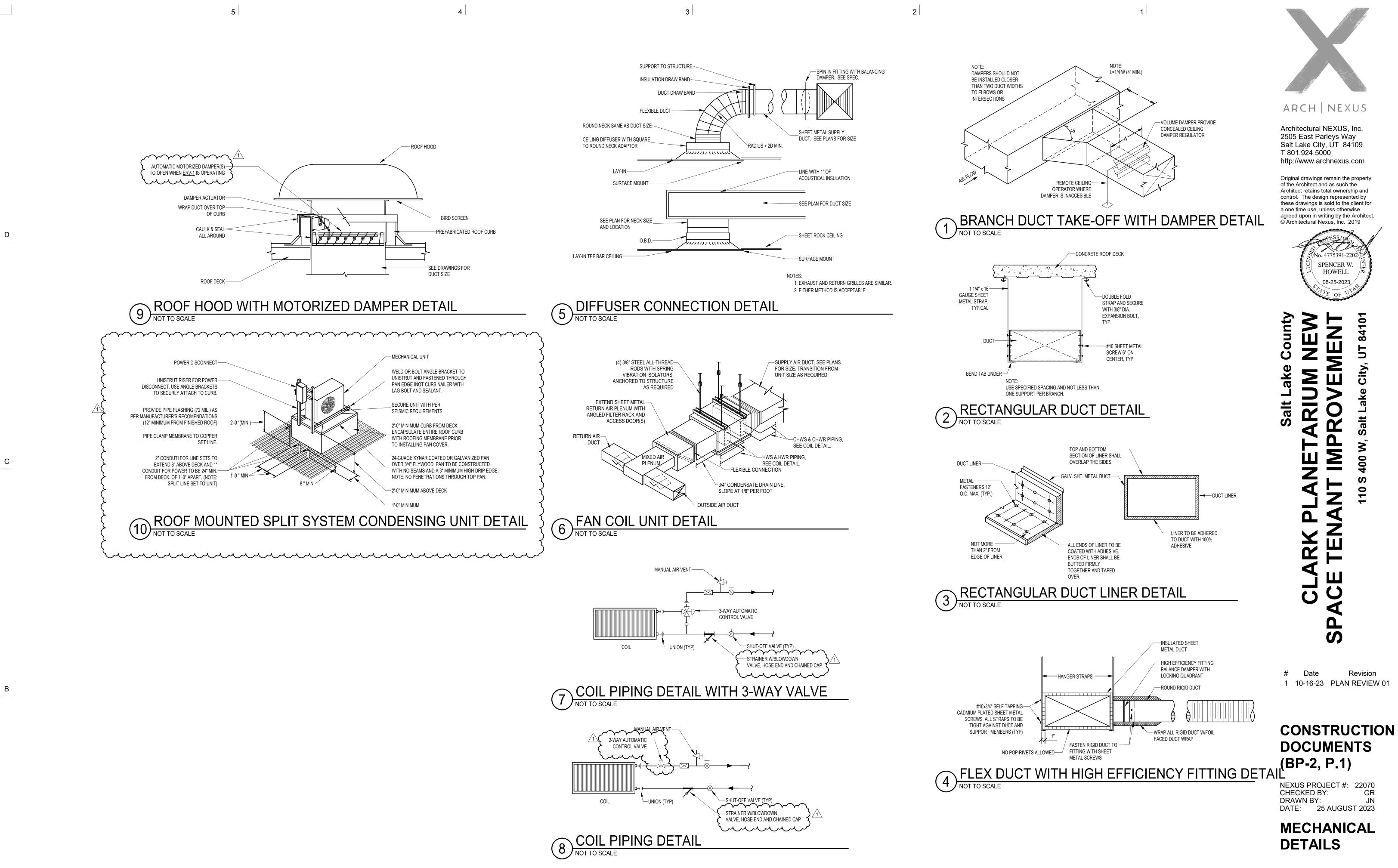
NEXUS PROJECT #: 22070 CHECKED BY: GR DRAWN BY: JN DATE: 25 AUGUST 2023



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### PLUMBING FIXTURE SCHEDULE CW HW W V FIXTURE (IN) (IN) (IN) (IN) SPECIFICATION ID FIXTURE: AMERICAN STANDARD AFWALL 2257.101, VITREOUS CHINA, ELONGATED BOWL, TOP SPUD, 1.6GPF. VALVE: SLOAN REGAL OPTIMA SMOMODEL 111-SMO LOW CONSUMPTION EXPOSED, BATTERY POWERED, SIDE MOUNT SENSOR OPERATED, 1.6 GPF FLUSH VALVE SEAT: AMERICAN STANDARD 5901.100 ELONGATED BOWL OPEN FRONT SEAT LESS COVER, ANTIMICROBIAL SEAT. WC-1 WATER CLOSET, WALL MOUNT FLUSH VALVE -.- 4 2 ACCESSORIES: SMITH 0210 HORIZONTAL (LEFT OR RIGHT HAND AS REQUIRED) OR SMITH 0230 VERTICAL ADJUSTABLE CARRIER WITH FOOT SUPPORT; INSTALL ACTUATOR ON WIDE SIDE OF FIXTURE; SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. FIXTURE: ZURN Z5110 20" X 17" COUNTERTOP LAVATORY, VITREOUS CHINA, 4" CENTER, FRONT OVERFLOW FAUCET: CHICAGO 802-VE2805-317ABCP DECK-MOUNTED MANUAL FAUCET WITH 4" CENTERS, VANDAL PROOF WRISTBLADE HANDLE, LAMINAR SPRAY 0.5 GPM L-1 LAVATORY, COUNTER MOUNT, MANUAL FAUCET 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 ACCESSORIES: PROVIDE WATTS NO. 7C DUAL CHECKS IN HOT AND COLD SUPPLIES. PROVIDE 0.5 GPM VANDAL RESISTANT AERATOR. PROVIDE LOOSE KEY ANGLE STOPS AND CHROME PLATED COPPER SUPPLIES AND 17 GA CAST BRASS, CHROME PLATED P-TRAP. COVER ALL EXPOSED PIPING WITH WHITE "HANDI-LAV GUARD' PROTECTOR TO MEET ADA REQUIREMENTS. FIXTURE: FAMERICAN STANDARD 4869-008 20X 10-WALL HUNG LAVATORY, ENAMELED CAST IRON, GLOSSY PORCELAIN FINISH, FRONT OVERFLOW. FAUCET ¹ CHICAGO 802-VE2805-317ABCP DECK-MOUNTED MANUAL FAUCET WITH 4" CENTERS, VANDAL PROOF WRISTBLADE HANDLE, LAMINAR SPRAY 0.5 GPM 1/2 1/2 1/2 1/2 1/2 1/2 ACCESSORIES: PROVIDE WATTS NO. 7C DUAL CHECKS IN HOT AND COLD SUPPLIES. PROVIDE 0.5 GPM VANDAL RESISTANT AERATOR. PROVIDE LOOSE KEY ANGLE STOPS AND CHROME PLATED L-2 LAVATORY, WALL HUNG, MANUAL FAUCET COPPER SUPPLIES AND 17 GA. CAST BRASS, CHROME PLATED P-TRAP. COVER ALL EXPOSED PIPING WITH WHITE "HANDI-LAV GUARD" PROTECTOR TO MEET ADA REQUIREMENTS. FIXTURE: ELKAY LZSTL8WSLK, WALL MOUNTED, BARRIER FREE, ADA ELECTRIC WATER COOLER WITH FLEXIBLE BUBBLER GUARD, STAINLESS STEEL BOWLS AND CONTROL BUTTONS ON EWC-1 ELECTRIC WATER COOLER, BI-LEVEL & BOTTLE FILLER 1/2 -,- 1 1/2 1 1/2 FRONT AND SIDES. COMPRESSOR TO BE 115V, 60 HZ WITH CAPACITY TO DELIVER AT LEAST 8.0 GPH OF 50°F WATER. 1-1/2" CAST BRASS CHROME-PLATED P-TRAPS.

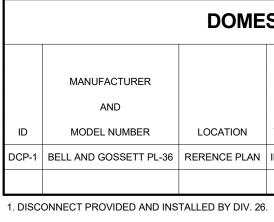
AND TRAP GUARD.

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

·,- | -,- | 2 | 2

FLOOR DRAIN

FD-1



2. PUMP MUST BE SUITABLE FOR DOMESTIC HOT WATER RECIRC. APPLICATION. 3. PROVIDE WITH AQUASTAT (ADJUSTABLE). SET TO 120° F.

COORDINATE THE ADA SIDE WITH THE ARCHITECT. PROVIDE THREE EXTRA FILTERS.

FIXTURE: SMITH FIGURE 2005Y-P050 FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 6" ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED GRATE

DOMESTIC RECIRC PUMP SCHEDULE											
		FLUID				ELECTRI	CAL				
		FLOW		HEAD		MOTOR	MOTOR	FULL			
		RATE	WORKING	LOSS		SIZE	SPEED	LOAD			
LOCATION	TYPE	(GPM)	FLUID	(FT)	CONSTRUCTION	(HP)	(RPM)	AMPS	VOLT/PH/HZ	NOTES	
RERENCE PLAN	INLINE	2	WATER	25	BRONZE	1/6	3300	2.1	120/1/60	1,2,3	



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Date Revision 1 10-16-23 PLAN REVIEW 01

CONSTRUCTION DOCUMENTS (BP-2, P.1)

NEXUS PROJECT #: 22070 CHECKED BY: GR DRAWN BY: JN DATE: 25 AUGUST 2023

PLUMBING SCHEDULES





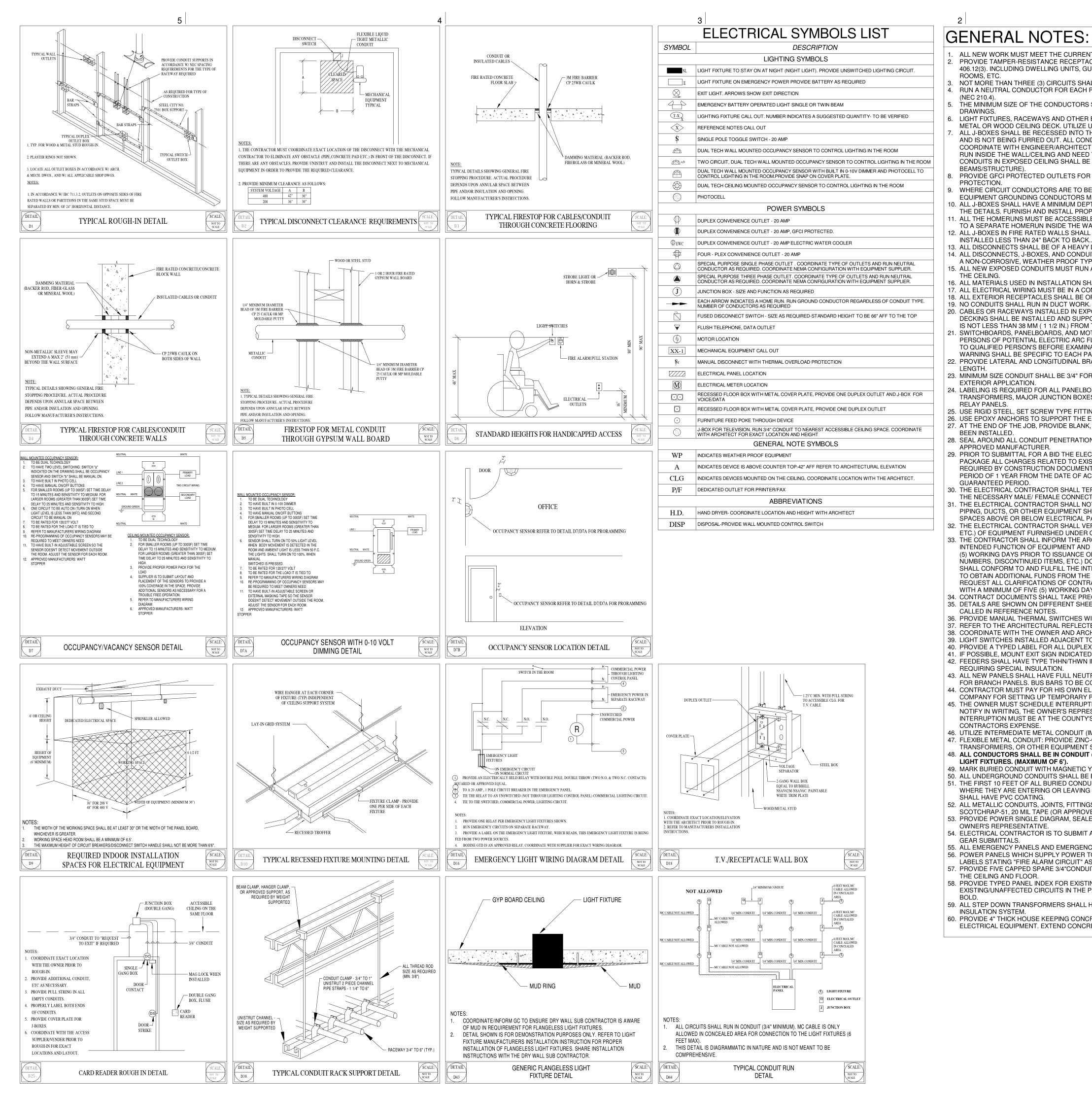
EELD's response to the city's review comments:

City Review 01

- 1. An exit sign has been added over the  $2^{nd}$  exit door.
- 2. Emergency light fixtures are identified with letter E on the lighting sheet. An emergency inverter will be installed to feed the emergency lights. See reference note# L7 on sheet EDL-101
- 3. Occupancy sensors are provided to control lighting in each area. Lighting zones are identified by lower case letter by each fixture.
- 4. Photocells are provided in the daylit area to control the lights. See reference note # L9.

City Review 02

1. The Egress corridor is existing and should have proper Egress Lighting and exit sign. We have added a note to the construction document for the contractor to verify functionality of the egress lighting.



### **GENERAL NOTES:**

. ALL NEW WORK MUST MEET THE CURRENT ADOPTED NATIONAL ELECTRICAL CODE (NEC) AND ALL THE LOCAL CODES. 2. PROVIDE TAMPER-RESISTANCE RECEPTACLES IN THE AREAS WHERE KIDS ARE PRESENT AND AREAS REQUIRED BY NEC 406.12(3). INCLUDING DWELLING UNITS, GUEST ROOMS, PRESCHOOL/ELEMENTARY/ CHILD CARE FACILITIES, WAITING

NOT MORE THAN THREE (3) CIRCUITS SHALL BE INSTALLED IN A 3/4" CONDUIT 4. RUN A NEUTRAL CONDUCTOR FOR EACH PHASE CONDUCTOR. DO NOT SHARE THE NEUTRAL CONDUCTOR IN HOMERUNS.

5. THE MINIMUM SIZE OF THE CONDUCTORS SHALL BE A NO. 12 AWG, THHN COPPER. UNLESS INDICATED OTHERWISE ON THE LIGHT FIXTURES, RACEWAYS AND OTHER ELECTRICAL DEVICES SHALL BE SUPPORTED FROM THE STRUCTURE NOT FROM

METAL OR WOOD CEILING DECK. UTILIZE UNISTRUTS IN BETWEEN STRUCTURE AS NEEDED ALL J-BOXES SHALL BE RECESSED INTO THE FINISHED WALL/CEILING UNLESS THE FINISHED WALL/CEILING IS CONCRETE AND IS NOT BEING FURRED OUT. ALL CONDUITS SHALL BE RUN THROUGH THE STUDS BEHIND THE FINISHED WALL/CEILING. COORDINATE WITH ENGINEER/ARCHITECT PRIOR TO ROUGH-IN FOR ANY EXPOSED CONDUITS/J-BOX THAT CAN NOT BE BUN INSIDE THE WALL/CEILING AND NEED TO BE SUBFACE MOUNTED ON THE FINISHED WALL/CEILING. SUBFACE MOUNTED CONDUITS IN EXPOSED CEILING SHALL BE INSTALLED CLOSE TO CEILING (AND NOT PENDANT MOUNTED BELOW THE

PROVIDE GFCI PROTECTED OUTLETS FOR EVERY LOCATION SHOWN ON THE DRAWINGS. DO NOT USE MULTIPLE LOCATION

. WHERE CIRCUIT CONDUCTORS ARE TO BE INCREASED IN SIZE TO MEET THE VOLTAGE DROP REQUIREMENT, THE EQUIPMENT GROUNDING CONDUCTORS MUST BE INCREASED ACCORDINGLY (NEC 250.122)

10. ALL J-BOXES SHALL HAVE A MINIMUM DEPTH OF 2-1/8" UNLESS OTHER WISE SPECIFIED. SECURE ALL J-BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER MUD RINGS. 11. ALL THE HOMERUNS MUST BE ACCESSIBLE. DO NOT CARRY A HOMERUN FROM ONE DEVICE TO ANOTHER WHICH IS TIED TO A SEPARATE HOMERUN INSIDE THE WALL. MARK ON ALL THE J-BOXES THE CIRCUIT NAMES AND NUMBERS

12. ALL J-BOXES IN FIRE RATED WALLS SHALL MEET THE FIRE RATING REQUIREMENT OF THE WALL AND SHALL NOT BE INSTALLED LESS THAN 24" BACK TO BACK.. 13. ALL DISCONNECTS SHALL BE OF A HEAVY DUTY TYPE

14. ALL DISCONNECTS, J-BOXES, AND CONDUITS EXPOSED TO THE OUTSIDE WEATHER AND MECHANICAL ROOMS SHALL BE OF A NON-CORROSIVE, WEATHER PROOF TYPE. 15. ALL NEW EXPOSED CONDUITS MUST RUN AGAINST THE WALL OR CEILING. DO NOT PENDANT MOUNT ANY CONDUIT FROM

16. ALL MATERIALS USED IN INSTALLATION SHALL BE U.L. APPROVED AND NEW. 17. ALL ELECTRICAL WIRING MUST BE IN A CONDUIT (ROMEX NOT PERMITTED).

18. ALL EXTERIOR RECEPTACLES SHALL BE OF WEATHER RESISTANT TYPE AS PER NEC 406.8.

20. CABLES OR RACEWAYS INSTALLED IN EXPOSED OR CONCEALED LOCATIONS UNDER METAL-CORRUGATED SHEET ROOF DECKING SHALL BE INSTALLED AND SUPPORTED SO THAT THE NEAREST OUTSIDE SURFACE OF THE CABLE OR RACEWAY IS NOT LESS THAN 38 MM (11/2 IN.) FROM THE NEAREST SURFACE OF THE ROOF DECKING.

21. SWITCHBOARDS, PANELBOARDS, AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSON'S BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT. THE WARNING SHALL BE SPECIFIC TO EACH PANEL AND TO MEET NEC 110-16.

22. PROVIDE LATERAL AND LONGITUDINAL BRACING FOR ALL CONDUIT RACKS, CABLE TRAYS, ETC., EXCEEDING 20 FEET IN

23. MINIMUM SIZE CONDUIT SHALL BE 3/4" FOR INTERIOR APPLICATION, AND 1" FOR CONDUIT BURIED BELOW GRADE IN 24. LABELING IS REQUIRED FOR ALL PANELBOARDS, SWITCHBOARDS, MOTOR CONTROL CENTERS, MOTOR STARTERS, TRANSFORMERS, MAJOR JUNCTION BOXES, DISCONNECT SWITCHES, BREAKERS, PUSH BUTTONS, ETC., INTERLOCKS AND

25. USE RIGID STEEL, SET SCREW TYPE FITTINGS ONLY. DIE CAST FITTING SHALL NOT BE USED. 26. USE EPOXY ANCHORS TO SUPPORT THE ELECTRICAL EQUIPMENT. EXPANSION ANCHOR BOLTS ARE NOT ACCEPTABLE. 27. AT THE END OF THE JOB, PROVIDE BLANK, MATCHING COVER PLATES FOR ALL J-BOXES WHERE DEVICES HAVE NOT YET

28. SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS AND CEILINGS WITH A FIRE RATED MATERIAL. 3M IS AN

29. PRIOR TO SUBMITTAL FOR A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDE IN THEIR BID PACKAGE ALL CHARGES RELATED TO EXISTING CONDITIONS AND DEMOLITION WORK. PROVIDE SHOP DRAWINGS AS REQUIRED BY CONSTRUCTION DOCUMENTS. ALL LABOR, MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE BY THE TENANT. REPLACE OR REPAIR ALL DEFECTS DURING THE

30. THE ELECTRICAL CONTRACTOR SHALL TERMINATE THE ELECTRICAL CONNECTIONS TO ALL THE EQUIPMENT BY PROVIDING THE NECESSARY MALE/ FEMALE CONNECTOR, RECEPTACLE, PLUG, ETC. 31. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE MECHANICAL CONTRACTOR SO THAT NO

PIPING, DUCTS, OR OTHER EQUIPMENT SHALL BE INSTALLED IN THE ENTRY, PASS THROUGH ELECTRICAL ROOM OR SPACES ABOVE OR BELOW ELECTRICAL PANELS. 32. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENT)

ETC.) OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS. 33. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ ENGINEER, IN WRITING, OF ANY DISCREPANCIES FOUND BETWEEN THE INTENDED FUNCTION OF EQUIPMENT AND EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS WITH A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM, FAILURE TO REPORT ANY DISCREPANCY(CATALOG NUMBERS, DISCONTINUED ITEMS, ETC.) DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING EQUIPMENT WHICH SHALL CONFORM TO AND FULFILL THE INTENT OF THE CONTRACT DOCUMENTS. NOR SHALL IT BE USED AS A CONDITION TO OBTAIN ADDITIONAL FUNDS FROM THE OWNER AFTER THE CONTRACT IS AWARDED. THE CONTRACTOR SHALL REQUEST ALL CLARIFICATIONS OF CONTRACT DOCUMENT REQUIREMENTS, IN WRITING, TO THE ARCHITECT/ ENGINEER WITH A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM. 34. CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE. 35. DETAILS ARE SHOWN ON DIFFERENT SHEETS. THE CONTRACTOR SHALL REFER TO THOSE DETAILS WHETHER OR NOT

36. PROVIDE MANUAL THERMAL SWITCHES WITH PILOT LIGHT.

37. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF LIGHT FIXTURES. 38. COORDINATE WITH THE OWNER AND ARCHITECT FOR THE EXACT LOCATION OF THE OUTLETS PRIOR TO ROUGH-INS. 39. LIGHT SWITCHES INSTALLED ADJACENT TO EACH OTHER, SHALL BE GANGED TOGETHER WITH A ONE PIECE COVER PLATE. 40. PROVIDE A TYPED LABEL FOR ALL DUPLEX OUTLETS AND LIGHT SWITCHES TO INDICATE WHICH CIRCUIT THEY ARE TIED TO. 41. IF POSSIBLE, MOUNT EXIT SIGN INDICATED NEAR A WALL ON THE WALL.

42. FEEDERS SHALL HAVE TYPE THHN/THWN INSULATION EXCEPT WHERE EXTREME HEAT OR WATER CONDITIONS EXIST 43. ALL NEW PANELS SHALL HAVE FULL NEUTRAL AND HALF GROUND BUS BARS. PROVIDE DOOR IN DOOR CONSTRUCTION FOR BRANCH PANELS. BUS BARS TO BE COPPER.

44. CONTRACTOR MUST PAY FOR HIS OWN ELECTRICITY DURING CONSTRUCTION. COORDINATE WITH THE LOCAL POWER COMPANY FOR SETTING UP TEMPORARY POWER.

45. THE OWNER MUST SCHEDULE INTERRUPTIONS OF SERVICE WHEN CONTRACTOR WISHES TO MAKE UTILITY CONNECTIONS. NOTIFY IN WRITING, THE OWNER'S REPRESENTATIVE 72 HOURS PRIOR TO TIME WHEN INTERRUPTION IS DESIRED. INTERRUPTION MUST BE AT THE COUNTY'S CONVENIENCE. OVERTIME, IF REQUIRED FOR THIS WORK, IS TO BE AT

46. UTILIZE INTERMEDIATE METAL CONDUIT (IMC) IN WET LOCATIONS OR AREAS SUBJECT TO DAMAGE 47. FLEXIBLE METAL CONDUIT: PROVIDE ZINC-COATED, FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO MOTORS,

TRANSFORMERS, OR OTHER EQUIPMENT SUBJECT TO MOVEMENT OR VIBRATION. 48. ALL CONDUCTORS SHALL BE IN CONDUIT (3/4" MINIMUM). MC CABLES ARE ONLY ALLOWED FOR CONNECTION TO THE

49. MARK BURIED CONDUIT WITH MAGNETIC YELLOW MAKER RIBBON 8" TO 12" BELOW FINISHED SURFACE. 50. ALL UNDERGROUND CONDUITS SHALL BE BURIED 24 INCHES MINIMUM UNDER THE GROUND.

51. THE FIRST 10 FEET OF ALL BURIED CONDUITS, 1 INCH AND OVER IN DIAMETER, ARE TO BE RIGID GALVANIZED STEEL WHERE THEY ARE ENTERING OR LEAVING THE BUILDING, MAN-HOLE, VAULT, ETC. ALL METALLIC UNDERGROUND CONDUITS 52. ALL METALLIC CONDUITS, JOINTS, FITTINGS, ETC. IN CONTACT WITH THE GROUND SHALL BE SPIRAL WRAPPED WITH 3M

SCOTCHRAP-51, 20 MIL TAPE (OR APPROVED EQUAL). 1/2" OVERLAP IS REQUIRED 53. PROVIDE POWER SINGLE DIAGRAM, SEALED IN PLASTIC AT THE MAIN SWITCHBOARD. VERIFY LOCATION WITH THE

54. ELECTRICAL CONTRACTOR IS TO SUBMIT A SCALED (1/4"=1') LAYOUT OF ALL ELECTRICAL ROOMS BASED ON THE SWITCH 55. ALL EMERGENCY PANELS AND EMERGENCY CIRCUIT BOXES SHALL BE LABELED IN RED.

56. POWER PANELS WHICH SUPPLY POWER TO FIRE ALARM SYSTEM OR POWER SUPPLIES SHALL BE IDENTIFIED BY RED LABELS STATING "FIRE ALARM CIRCUIT" AS PER NEC 760.41B. 57. PROVIDE FIVE CAPPED SPARE 3/4"CONDUITS FROM EACH SECTION OF A FLUSH MOUNTED BRANCH PANEL BOARD INTO

58. PROVIDE TYPED PANEL INDEX FOR EXISTING ELECTRICAL PANELS AFFECTED BY THE SCOPE OF THIS WORK EXISTING/UNAFFECTED CIRCUITS IN THE PANEL SHALL BE ITALICIZED AND CHANGED/ADDED CIRCUITS SHALL BE TYPED

59. ALL STEP DOWN TRANSFORMERS SHALL HAVE COPPER WINDING AND 115 DEGREE RISE WITH CLASS 155 OR HIGHER

60. PROVIDE 4" THICK HOUSE KEEPING CONCRETE PAD FOR EACH STEP DOWN TRANSFORMER AND FREE STANDING ELECTRICAL EQUIPMENT. EXTEND CONCRETE PADS A MINIMUM OF 6" BEYOND THE DIMENSIONS OF THE EQUIPMENT.

MANSOUF AGHDASI EELD

ELECTRICAL ENGINEERING & LIGHTING DESIGN 1220 SOUTH 300 WEST SLC, UT 84101 | 801-486-2222



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Revision Date

### CONSTRUCTION DOCUMENTS (BP-2, P.I)

NEXUS PROJECT #: 22070 CHECKED BY: MA DRAWN BY: ΑZ DATE: 25 AUGUST 2023

GENERAL **NOTES &** DETAILS



AMPS: <u>2</u>	200	<u>) A</u> MAIN: Volts:	<u>120/2</u>	208 \	Nye	<b>PHASE:</b> <u>3</u>	# OF WIRES	: <u>4</u>	MOL	JNT	ING: <u>S</u>	Surface	LOCATION: STO	RAGE
BREAKI R A P		DESCRIPTION	TYPE	E/ N	CIR. #	Α	В	с	CIR. #	E/ N	TYPE	DESCRI		BREAKE R P A
20 A 2	2	FC-1	Po	N	1	650 VA / 650 VA			2	N	Po	FC-2		2 20 A
	_				3		650 VA / 650 VA	0744344 (4004	4			-		
50 A 2	2	AC-1	Po	N	5	3744 VA / 1924		3744 VA / 1924	6	Ν	Po	AC-2		2   50 A
20 A 1	1	OUTLETS - MULTIPURPOSE NORTH	Po	N	9	3744 VA / 1924	360 VA / 1924 VA		8 10					
		OUTLETS - MULTIPURPOSE NORTH	Po		11		500 VA / 1924 VA	540 VA / 1924	12	Ν	Po	ERV-1		2   30 A
		OUTLETS - MULTIPURPOSE WEST	Po	N	13	360 VA / 360 VA		340 VA / 1924	14	Ν	Po	OUTLETS - MULTIPU	IBPOSE CLG	1 20 A
		OUTLET - EWC	Po	N	15		180 VA / 540 VA		16	N		OUTLETS - TOILETS		1 20 A
		OUTLET - EWC	Po	N	17			180 VA / 180 VA	18	N		OUTLET - MULTIPUR		1 20 A
		OUTLETS - WASH	Po	N	19	360 VA / 900 VA			20	Ń	Ro	OUTLETS - CLASSRO		L 20 A
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20 A 1	·	EXISTING LOAD		E	39		0 VA / 0 VA		40	E		EXISTING LOAD		1 20 A
20 A   1	1	EXISTING LOAD		E	41	0040344	5004.1/4	0 VA / 0 VA	42	Е		EXISTING LOAD		1 20 A
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			IO	ai A	mps:	79 A	42 A	75 A						
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Motor				1	7789	VA	110.52%	19661 VA						
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•											Το	tal Est. Demand:	24341 VA	
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											Te	tal Est. Demand:		
											10	tai ESt. Demand:	00 A	

### NOTES:

1. PROVIDE NEW CIRCUIT BREAKERS AS NECESSARY. NEW BREAKERS SHALL MATCH AIC RATING OF EXISTING BREAKERS.

2. CIRCUIT NUMBERS ARE SCHEMATIC AND SHOW THE DESIGN INTENTION AND LOAD BALANCE REQUIREMENTS. CONTRACTORS SHALL VERIFY ALL EXISTING AVAILABLE CIRCUITS AND THOSE WHICH BECOME AVAILABLE AS A RESULT OF DEMOLITION. CONTRACTOR SHALL INDICATE ACTUAL CIRCUITS USED ON AS-BUILT DRAWINGS. THE CONTRACTOR IS TO INFORM GC/ENGINEER IF SUFFICIENT BREAKER SPACES DID NOT FREE UP, PRIOR TO ROUGH-IN.

AMPS	: <u>20</u>	<u>00 A</u> MAIN: V	olts: <u>120/2</u>	08 \	Vye	<b>PHASE:</b> <u>3</u>		# OF WIRES	5: <u>4</u>	MOL	JNT	ING: <u>s</u>	Surface	LOCATION:	STORA	GE
BRE F A		DESCRIPTION	TYPE	E/ N	CIR. #	Α		В	С	CIR. #	E/ N	TYPE	DESCR	IPTION	BR P	EAKI R A
20 A	1	LIGHTING - ALL AREAS	Po	Ν	1	1921 VA/0	VA			2	Е		EXISTING LOAD		1	20 A
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20 A	1	EXISTING LOAD		Е	5				0 VA / 0 VA	6	E		EXISTING LOAD		1	20 /
20 A	1	EXISTING LOAD		Е	7	0 VA / 0 \	/A			8	E		EXISTING LOAD		1	20 A
20 A	1	EXISTING LOAD		Е	9			0 VA / 0 VA		10	E		EXISTING LOAD		1	20 A
20 A	1	EXISTING LOAD		Е	11				0 VA / 0 VA	12	E		EXISTING LOAD		1	20 A
20 A	1	EXISTING LOAD		Е	13	0 VA / 0 \	/A			14	Ε		EXISTING LOAD		1	20 A
20 A	1	EXISTING LOAD		Е	15			0 VA / 0 VA		16	E		EXISTING LOAD		1	20 A
20 A	1	EXISTING LOAD		Е	17				0 VA / 0 VA	18	E		EXISTING LOAD		1	20 A
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20 A	1	EXISTING LOAD		Е	21			0 VA / 0 VA		22	Е		EXISTING LOAD		1	20 A
20 A	-	EXISTING LOAD		Е	23				0 VA / 0 VA	24	Е		EXISTING LOAD		1	20 A
20 A	1	EXISTING LOAD		Е	25	0 VA / 0 \	/A			26	E		EXISTING LOAD		1	20 A
20 A	1			Е	27			0 VA / 0 VA		28	E		EXISTING LOAD		1	20 A
20 A	1	EXISTING LOAD		Е	29				0 VA / 0 VA	30	Е		EXISTING LOAD		1	20 A
20 A	1	EXISTING LOAD		Е	31	0 VA / 0 \	/A			32	E		EXISTING LOAD		1	20 A
20 A	1			Е	33			0 VA / 0 VA		34	Ε		EXISTING LOAD		1	20 A
20 A	1	EXISTING LOAD		Е	35				0 VA / 0 VA	36	Ε		EXISTING LOAD		1	20 A
20 A	1	EXISTING LOAD		Е	37	0 VA / 0 \	/A			38	Ε		EXISTING LOAD		1	20 A
20 A	1			Е	39			0 VA / 0 VA		40	E		EXISTING LOAD		1	20 A
20 A		EXISTING LOAD		Е	41				0 VA / 0 VA	42	E		EXISTING LOAD		1	20 A
AIC			Tot	al L	oad:	1921 V	A	0 VA	0 VA							
			Tota	al Ai	nps:	16 A		0 A	0 A							
Load	Clas	ssification	C	oni	necte	d Load	Dem	and Factor	Estimated Der	nand			Panel	Totals		
Lighti	ng				720 \	/A	1	25.00%	900 VA							
Lighti	ng - I	Dwelling Unit			500 \	/A	1	00.00%	500 VA			Т	otal Conn. Load:	1921 VA		
Other	<u> </u>	~			720 \	/A		00.00%	720 VA			Το	tal Est. Demand:	2101 VA		
												-	Total Conn.:			
												Το	tal Est. Demand:			
												.0				

1. PROVIDE NEW CIRCUIT BREAKERS AS NECESSARY. NEW BREAKERS SHALL MATCH AIC RATING OF EXISTING BREAKERS. 2. CIRCUIT NUMBERS ARE SCHEMATIC AND SHOW THE DESIGN INTENTION AND LOAD BALANCE REQUIREMENTS. CONTRACTORS SHALL VERIFY ALL EXISTING AVAILABLE CIRCUITS AND THOSE WHICH BECOME AVAILABLE AS A RESULT OF DEMOLITION. CONTRACTOR SHALL INDICATE ACTUAL CIRCUITS USED ON AS-BUILT DRAWINGS. THE CONTRACTOR IS TO INFORM GC/ENGINEER IF SUFFICIENT BREAKER SPACES DID NOT FREE UP, PRIOR TO ROUGH-IN.

	MECHAN	<b>JICA</b>	L EC	QUIPN	ЛЕN	Т			2	.IGI	ЧT	FIX	TU	RE	SC	HE	DU	ı   ILE	
		SCHE								R	EQUIR	EMEN	rs (Ab Lum	SOLUT ENS)	E DEL		Đ		
				SYSTEMS	₩ ₩	(SS	SYMBOL	TYPE	DESCRIPTION	LUMENS	WATTAGE	VOLTAGE	DIMMING	COLOR TEMP	MINIMUM CRI	MOUNTING	BEAM ANGLE	MANUFACTURERS	CATALOG NUMBERS
	NAME OF MECHANICAL	COIL	COIL	γST	AIR-TO AIR ENERGY	HOOD (DAMPERS)	$\left\{ \right\}$		4" ROUND APERTURE LED DOWN LIGHT.									HE Williams,	2DR-L20/940-DIM-UNV-OW-ZF-CS-N-F1- 2500 LUMENS
	EQUIPMENT	AN	AN		Ч Ч Ц Ц Ц Ц	AMF				SNE	6	Ļ	10%			۵		ALPHABET	NU3RDT-30LM-40K-90-60D-UNV-DIM10- NC-SCBA-2500 LUMENS
			Щ	SPLIT	A M		$\left\{ \circ \right\}$	D-1		2,500 LUMENS	20W LED	Μυμτι νογτ	0-10V TO 1	4000K	90 CRI	FLANGED	60D	Focal	FLC3D RT SW 2100L UNV L11 BH LC3 RT SW 2100L 940K DNT WFL CD-2500 LUMENS
	EQUIPMENT NO.	FC-1,2	FC-4	AC-1,2	ERV-1	► H-1,2	$\left\{ \right.$			5,5		2	9						
	RATING/WATTS				$\langle \rangle$				LINEAR 3" WIDE RECESSED LIGHT FIXTURE OVER THE									AXIS	BRLED-750-90-40-SO-?-STANDARD- FINISH-UNV-DP-1-DS
					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		$\int $		MIRROR. SOME TO BE ROW MOUNTED. LENS SHALL BE SNAP-ON WITH NO GAP AND	INS/LF	LED/LF	огт	10%		_	ESS		CORONET	LSR2 * 40 MED UNV DB SCBA NT FL NA NA NA
	VOLTAGE	208	208	208	208	120			NO VISIBLE LED'S. REFER TO DRAWINGS FOR EXACT	LUMENS/LF			0-10V TO 10%	4000K	90 CRI	FLANGELESS	N/A	Lumenwerx	VIA2R-D-HLO-FH-SW-90-700-40-#FTUNV- D1-1C-DTL-W
	PHASE	1	1	1	1 (1			LENGTH. IN RESTROOMS,TOILET AND WASH.	1,000	10W	MU	0-10			FLA		HUBBELL	
	AMPS	6.25	2.48	36.00	18.50	0.02			2'X2' RECESSED LIGHT FIXTURE. IN WORK ROOM.CLASSROOM.									HE Williams,	
DATA	WIRE SIZE	2#12	2#12	2#8	2#10(2#12			ROOM, CLASSROOM.	UMENS	LED	Ι ΛΟΓΤ	TO 10%	4000K	90 CRI	GRID	N/A	METALUX Lithonia	24CZ2-45-UNV-L940-CD1-**-U 2BLT4 48L ADPT EZ1 LP940 **
	GROUND WIRE	1#12	1#12	1#10	1#10	1#12				3,500 LUME	30W	MULTI	0-10V	40	06	G	2	HUBBELL	
MOTOR	CONDUIT SIZE	3/4"	3/4"	3/4"	3/4"(3/4"	$\left\{ - \right\}$		LED 4'/8' STRIP LIGHT. ADJUSTABLE CABLE HUNG.									HE WILLIAMS	75R-4-L50/940-(L40)-DIM-UNV
	FUSE DISC. SW.	30	30	60	30				REFER TO THE DRAWING FOR LENGTH. IN STORAGE.	LUMENS/4'	LED	ΛΟΓΤ	10%		_	SURFACE/CHAIN		LITHONIA	ZL1D L48 5000LM FST MVOLT 40K 90CRI WH
	1 03L DISC. 3W.	30	30	00	($\sum_{i=1}^{n} \phi_{i}$	S-1		LUME	DW LE	MULTI V	0-10V TO	4000K	90 CRI	ACE/	N/A	Columbia Lighting	MPS49-40LW-CW-EDU / CM48NF-KIT
	TYPE RKI FUSES	10	3	40	25	1				3,000	Э Э	M	0-10			SURF		HUBBELL	
	BREAKER SIZE	20	20	50	30 (20	<u>}</u>		GREEN LED EXIT SIGN WITH BATTERY PACK. ARROW									EMERGENSEE	
	CIRCUIT					>	$\left\{ \right.$		INDICATES THE DIRECTION OF EXIT. MULTI VOLTAGE			огт						EVENLITE	TEXZ-EM-G-URC
	NOTES	4		4		2	\sum	EX-1			LED	רדו ע						Isolite	UEL-EM-G-1C2M-MTEBR
ΝΟΤ				I	I (M						HUBBELL	
	STARTER IS FURNISHED WIT		PROVIDE SI		СТ		NOTES												

STARTER IS FURNISHED WITH THE UNIT. PROVIDE SITE DISCONNECT.

PROVIDE THERMAL OVERLOAD SWITCH.

*THE ELECTRICAL CONTRACTOR IS TO COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXACT LOCATIONS AND PROVIDE FUSE/BREAKER SIZE FOR EACH EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

NOTES: 1. THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION/REQUIREMENT TAKES PRECEDENCE OVER THE CATALOG NUMBER. 2. ALL LED FIXTURES SHALL HAVE 5 YEAR MINIMUM WARRANTY, REPLACEABLE AND UP-GRADEABLE MODULES AND DRIVERS, AND 50,000 HOUR LED LIFE. FIXTURE SHALL BE TESTED USING LM 79 AND LM 80 PROCEDURE. ALL LED FIXTURES SHALL BE IN THE DESIGNLIGHTS CONSORTIUM QUALIFIED LIST. LUMEN OUTPUT INDICATED IS ABSOLUTE DELIVERED LIGHT. 3. FIELD VERIFY ALL LIGHTING VOLTAGES PRIOR TO PLACING ANY ORDER. 4. LUMEN OUTPUT INDICATED UNDER THE REQUIREMENTS COLUMN SHALL BE THE OUTPUT OF THE FIXTURE NOT THE LED MODULE. 5. REFER TO ARCHITECTURAL ELEVATIONS FOR PENDANT MOUNTING HEIGHTS. DO NOT CUT EXCESS PENDANT CABLES UNTIL PENDANT HEIGHT HAS BEEN APPROVED BY ARCHITECT AND ENGINEER.



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Revision Date 1 10-11-23 Plan Review 01

CONSTRUCTION DOCUMENTS (BP-2, P.I)

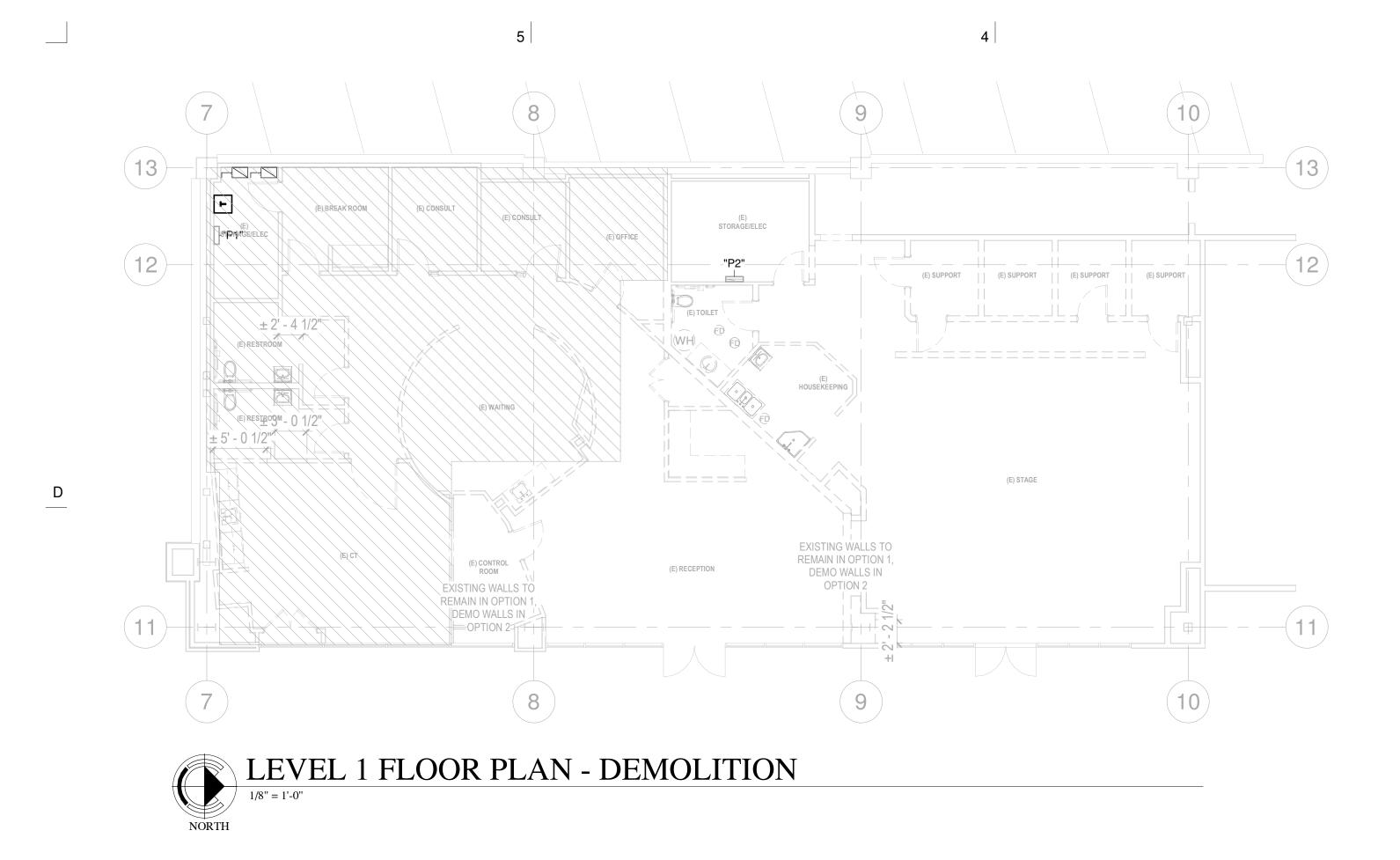
NEXUS PROJECT #: 22070 CHECKED BY: MA DRAWN BY: AZ DATE: 25 AUGUST 2023

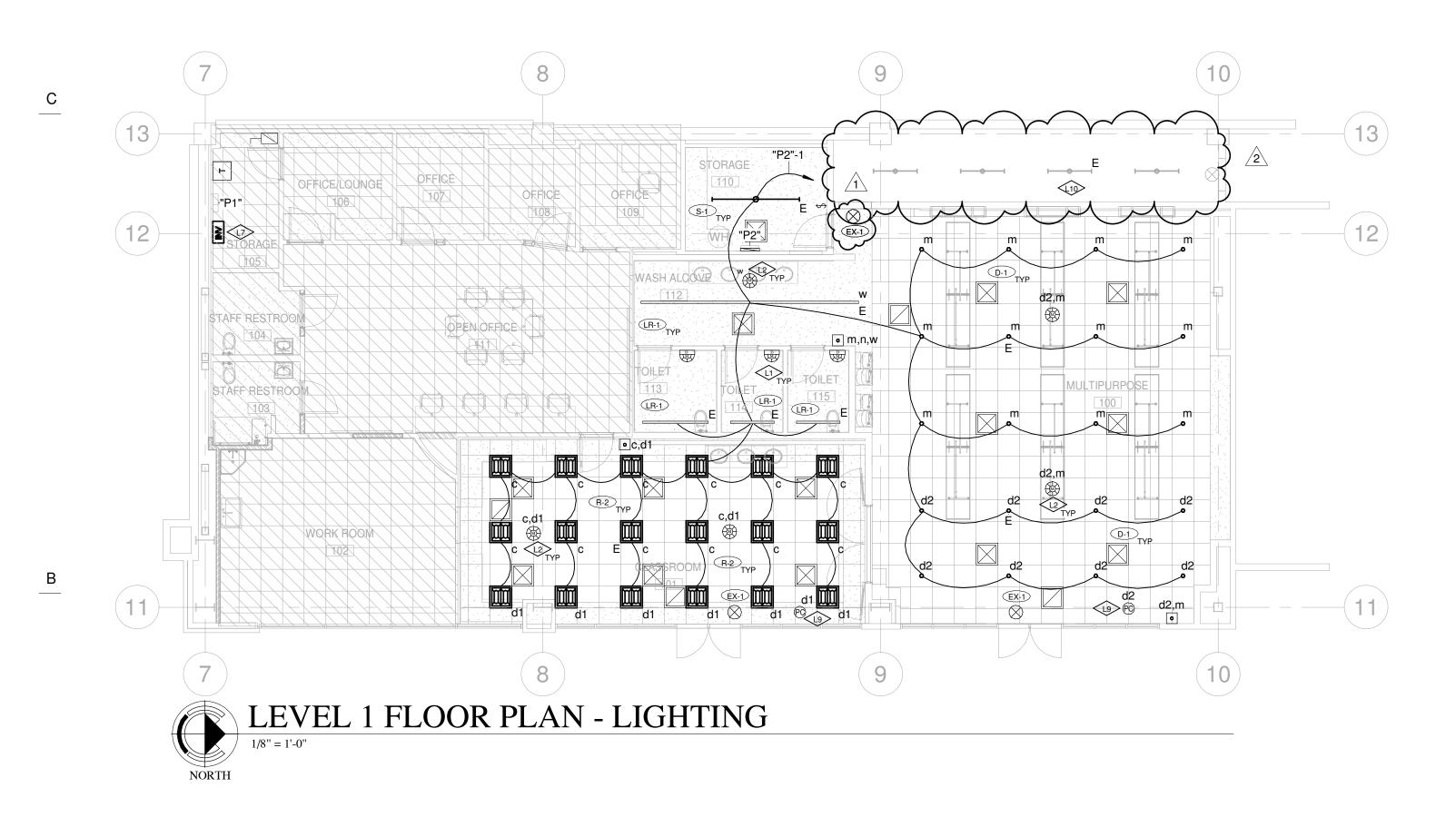
SCHEDULES





ELECTRICAL ENGINEERING & LIGHTING DESIGN 1220 SOUTH 300 WEST SLC, UT 84101 | 801-486-2222





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S C T	N THE EXISTING S WITCHES, WIRING ONTROLS, ETC. A HE GENERAL COI IEW CEILING IF NE
C	LL MATERIALS TH WNER. MATERIAL ROM THE SITE BY
S	LL CONCEALD CO URFACES AND CA EMOVED FROM T
T	N AREAS WHERE HE NATURE OF T PRDER TO MAINTA
5 E	XISTING PANELS
	TIE ALL FIXTURES PROVIDE CONDU
	EMERGENCY LIG SHALL BE TIED TO FIXTURE) WHEN SWITCH. THE FIX CONDUCTORS, E
	RACEWAY. PROV
	TIE EXIT SIGNS TO CONDUCTORS, R
	LIGHT FIXTURES PROVIDE CONDU DIMMED WITH TH
	ELECTRICAL CON ENSURE ALL THE MANNER. COORD TO DETAIL D43 O
< <u>L</u>	 FURNISH AND I 0-10V DIMMER COORDINATE V COMPATIBILITY ON E-001. WAT
< <u>L</u> 2	FURNISH AND I VANDAL-RESIS OCCUPANCY S SO THAT WHEN SENSOR SHALL OFFICE SHALL PROGRAMMED LIGHT OUTPUT ZONES AS REC DOES NOT REC PER ZONE). RE OCCUPANCY S EACH AREA. PF RELAYS, ETC. F
< <u>L7</u>	FURNISH AND FEED THE EME UTILIZING SEP CONDUCTORS AND HUBBELL INPUT, AND 120 SAME CIRCUIT
	FURNISH AND APPROXIMATE LIGHT FIXTURE SYSTEM SO TH WIRES TO EAC COORDINATE 1
	<pre>Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y</pre>
\checkmark	

SHEET NOTES - DEMOLITION

SPACE TO BE RENOVATED, THE CONTRACTOR SHALL REMOVE ALL LIGHT FIXTURES G, WIRING DEVICES, CONDUITS, FIRE ALARM DEVICES, SPEAKERS VOLUME AS REQUIRED WHETHER OR NOT SHOWN ON THE DRAWINGS COORDINATE WITH INTRACTOR PRIOR TO ANY DEMOLITION WORK AND REINSTALL DEVICES ON THE **IECESSARY**.

HAT ARE TO BE REMOVED FROM THE PREMISSES SHALL BE RETURNED TO THE LS WHICH THE OWNER DECIDES NOT TO KEEP SHALL BE SALVAGED AND REMOVED BY THE CONTRACTOR.

ONDUITS THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISHED APPED OFF AFTER THE WIRING HAS BEEN DISCONNECTED AT THE PANEL AND THE CONDUIT

CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED BECAUSE OF THE FACILITY, MAKE ALL THE NECESSARY MODIFCATIONS TO THE CIRCUITS IN AIN THE CIRCUITS INTEGRITY.

AND THE TRANSFORMER TO REMAIN AS IS AND STAY FUNCTIONAL

SHEET NOTES - LIGHTING

S INDICATED WITH A LOWER CASE LETTER TO ITS CORRESPONDING SWITCH(ES) JITS, CONDUCTORS, LIGHTING CONTACTORS, ETC. FOR A COMPLETE INSTALATION.

3HT FIXTURES INDICATED WITH THE LETTER "E" (4' SECTION OF LINEAR LIGTH) O THE EMERGENCY POWER AND TURN ON (TO FULL LUMEN OUTPUT OF THE THE COMMERCIAL POWER FAILS REGARDLESS OF THE POSITION OF THE CONTROL XTURE SHALL BE CONTROLLED BY THE INDICATED SWITCH. PROVIDE CONDUITS . ETC. FOR A COMPLETE INSTALLATION.RU THE EMERGENCY CIRCUIT IN A SEPARETE /IDE RELAY EQUAL TO BODINE GTD.

O AN UNSWITCHED EMERGENCY LIGHTING CIRCUIT. PROVIDE CONDUITS, RELAY BALLAST'S, ETC. FOR A COMPLETE INSTALLATION.

INDICATED WITH THE LETTERS "NL" (NIGHT LIGHT) SHALL STAY ON AT ALL TIMES. JITS, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. NIGHT LIGHTS SHALL BI HE INDICATED DIMMER SWITCH.

NTRACTOR IS TO COORDINATE WITH THE GC AND DRY WALL CONTRACTOR TO E FLANGELESS LIGHT FIXTURES ARE INSTALLED PROPERLY IN A PROFESSIONAL DINATE WITH THE GC AND SHEET ROCK CONTRACTOR PRIOR TO ROUGH-IN. REFER N SHEET E-001 FOR MORE INFORMATION

REFERENCE NOTES

INSTALL A LOW PROFILE WALL MOUNTED OCCUPANCY SENSOR WITH BUILT IN SWITCH TO BE SUITABLE FOR THE TYPE OF LIGHT IT IS CONTROLLING. WITH THE LIGHT FIXTURE MANUFACTURER FOR PROPER DIMMER TYPE TO ENSURE Y. DIMMER TO BE DIMMABLE TO 10% OF THE LIGHT OUTPUT. REFER TO DETAIL D7A IT STOPPER IS THE ONLY APPROVED MANUFACTURER.

INSTALL A CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WITH STANT LENS TO CONTROL THE LIGHT FIXTURES IN THE HALLWAYS/ROOM. SENSORS THAT CONTROL THE SAME LIGHT FIXTURES SHALL BE INTERCONNECTED N ONE ACTIVATES ALL LIGHTS WITH THE SAME SWITCH LEG AS THAT OCCUPANCY L TURN ON. OCCUPANCY SENSORS THAT CONTROL DIFFERENT ZONES IN OPEN . BE INTERCONNECTED (CAT 5 OR WHAT IS REQUIRED BY MANUFACTURER) AND D SO THAT THE LIGHTING IN THE AREA WITHOUT MOTION DROPS DOWN TO 20% DURING BUSINESS HOURS. PROVIDE ROOM CONTROLLER WITH NUMBER OF QUIRED TO ACCOMMODATE CONTROL SHOWN ON THE DRAWINGS (RESTROOM QUIRE A ROOM CONTROLLER). PROVIDE PUSH BUTTONS AS SHOWN (ONE BUTTON EFER TO DRAWINGS/PUSH BUTTON SCHEDULE FOR MORE INFORMATION. THE SENSOR SUPPLIER SHALL PROVIDE A LAYOUT TO ENSURE A 100% COVERAGE IN ROVIDE ADDITIONAL POWER PACKS (TO CONTROL 120V AND 277V CIRCUITS), FOR A COMPLETE INSTALLATION. REFER TO DETAIL D7 ON SHEET E-001 FOR G. WATT STOPPER IS THE ONLY APPROVED MANUFACTURER.

INSTALL A 250 WATT EMERGENCY INVERTER IN THE APPROXIMATE LOCATION TO ERGENCY LIGHTS. TIE THE EMERGENCY LIGHTS FIXTURE TO THE INVERTER PARATE RACE WAY THAN THE NORMAL LIGHTING CIRCUIT. PROVIDE CONDUIT RELAY, ETC. FOR A COMPLETE INSTALLATION. ACUITY BRAND, COOPER, PHILIPS, ARE THE APPROVED MANUFACTURER. THE INVERTER IS TO HAVE 120 VOLTS, 20 VOLT, 20 AMP CIRCUIT BREAKERS ON THE OUTPUT. TIE THE INVERTER TO THE AS THE LIGHTING CIRCUIT.

INSTALL A CLOSED LOOP PHOTO CELL WITH 0-10V CONTINUOUS DIMMING IN THE LOCATION SHOWN. THE PHOTO CELL SHALL BE FULLY COMPATIBLE WITH THE ES IT IS CONTROLLING. PROVIDE ROOM CONTROLLER AS NEEDED. PROGRAM THE HAT 30FC AVERAGE IS MAINTAINED AT THE DESK LEVEL. RUN ADDITIONAL CONTROI CH FIXTURE AS NECESSARY. RE-PROGRAM AFTER THE TENANT HAS MOVED IN. THIS WORK WITH THE OWNER/ARCHITECT \bigvee \bigvee \bigvee \bigvee

TOR IS TO VERIFY THE CONDITION OF THE EXISTING EMERGENCY LIGHTS AND THI THE EXISTING EXIT CORRIDOR. FIX THE FIXTURES, AS NECESSARY. FIELD VERIFY.





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Date Revision 2 11.14.23 Plan Review 02

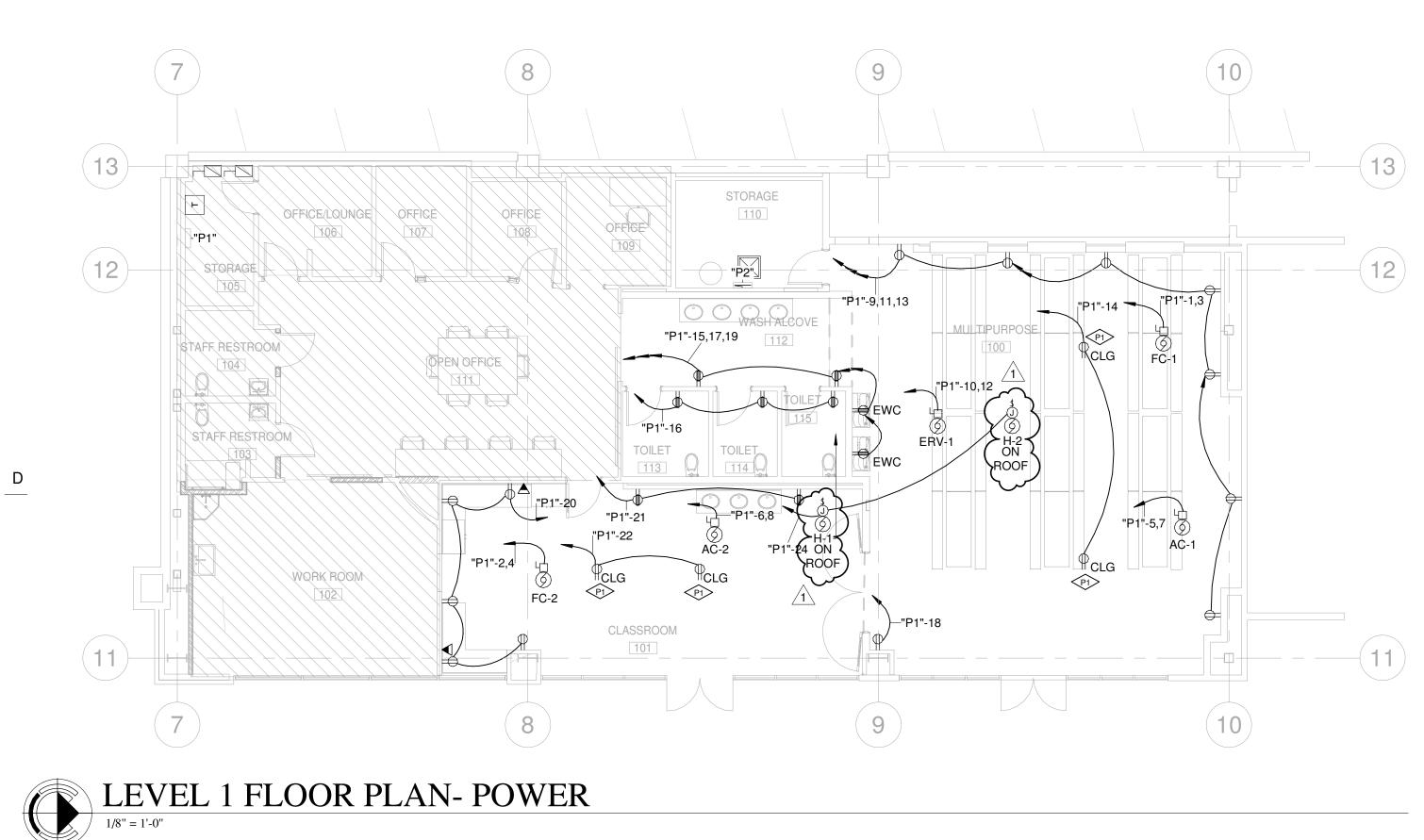
CONSTRUCTION DOCUMENTS (BP-2, P.I)

NEXUS PROJECT #: 22070 CHECKED BY: MA ΑZ DRAWN BY: DATE: 25 AUGUST 2023

LEVEL 1 FLOOR PLAN -**DEMOLITION &** LIGHTING



ELECTRICAL ENGINEERING & LIGHTING DESIGN 1220 SOUTH 300 WEST SLC, UT 84101 | 801-486-2222



С _____

В _____

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	2
1	FURNISH AND INS CONDUIT WITH A THIS FLOOR. PRO CONDUIT.COORD
2	INSTALL DUPLEX ETC. COORDINAT
3	PROVIDE J-BOX A TV. INSTALL CLOO EXACT LOCATION



SHEET NOTES - POWER

NSTALL A 4"X4"X2-1/8" J-BOX WHERE VOICE/DATA OUTLETS ARE SHOWN. RUN A 1" A PULL-STRING FROM THE J-BOX TO THE NEAREST ACCESSIBLE CEILING SPACE ON ROVIDE A 90° LONG SWEEP ELBOW WITH PLASTIC BUSHING AT THE END OF THE ROURNER/ARCHITECT FOR EXACT LOCATION PRIOR TO ROUGH-IN.

OUTLET NEXT TO DATA OUTLET IN OFFICES, CONFERENCE ROOMS, COPY AREAS, ATE EXACT LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN.

AND RUN 1.25" CONDUIT TO NEAREST ACCESSIBLE CEILING WITH PULL STRING FOR OCK TYPE OUTLET NEXT TO J-BOX. COORDINATE WITH ARCHITECT/ OWNER FOR ON AND HEIGHT. REFER TO DETAIL D18 ON SHEET E-001.



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Date Revision 1 10-11-23 Plan Review 01

CONSTRUCTION DOCUMENTS (BP-2, P.I)

NEXUS PROJECT #: 22070 CHECKED BY: MA DRAWN BY: AZ DATE: 25 AUGUST 2023

LEVEL 1 FLOOR











PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes:
 - 1. Mechanical and electrified door hardware
 - 2. Electronic access control system components
- B. Section excludes:
 - 1. Windows
 - 2. Cabinets (casework), including locks in cabinets
 - 3. Signage
 - 4. Toilet accessories
 - 5. Overhead doors
- C. Related Sections:
 - 1. Division 01 Section "Alternates" for alternates affecting this section.
 - 2. Division 06 Section "Rough Carpentry"
 - 3. Division 06 Section "Finish Carpentry"
 - 4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
 - 5. Division 08 Sections:
 - a. "Metal Doors and Frames"
 - b. "Flush Wood Doors"
 - c. "Entrances"
 - 6. Division 26 "Electrical" sections for connections to electrical power system and for lowvoltage wiring.
 - 7. Division 28 "Electronic Safety and Security" sections for coordination with other components of electronic access control system and fire alarm system.

1.02 REFERENCES

- A. UL LLC
 - 1. UL 10B Fire Test of Door Assemblies
 - 2. UL 10C Positive Pressure Test of Fire Door Assemblies
 - 3. UL 1784 Air Leakage Tests of Door Assemblies
 - 4. UL 305 Panic Hardware
- B. DHI Door and Hardware Institute
 - 1. Sequence and Format for the Hardware Schedule
 - 2. Recommended Locations for Builders Hardware
 - 3. Keying Systems and Nomenclature
 - 4. Installation Guide for Doors and Hardware
- C. NFPA National Fire Protection Association

- 1. NFPA 70 National Electric Code
- 2. NFPA 80 2016 Edition Standard for Fire Doors and Other Opening Protectives
- 3. NFPA 101 Life Safety Code
- 4. NFPA 105 Smoke and Draft Control Door Assemblies
- 5. NFPA 252 Fire Tests of Door Assemblies
- D. ANSI American National Standards Institute
 - 1. ANSI A117.1 2017 Edition Accessible and Usable Buildings and Facilities
 - 2. ANSI/BHMA A156.1 A156.29, and ANSI/BHMA A156.31 Standards for Hardware and Specialties
 - 3. ANSI/BHMA A156.28 Recommended Practices for Keying Systems
 - 4. ANSI/WDMA I.S. 1A Interior Architectural Wood Flush Doors
 - 5. ANSI/SDI A250.8 Standard Steel Doors and Frames

1.03 SUBMITTALS

- A. General:
 - 1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
 - 2. Prior to forwarding submittal:
 - a. Review drawings and Sections from related trades to verify compatibility with specified hardware.
 - b. Highlight, encircle, or otherwise specifically identify on submittals: deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.
- B. Action Submittals:
 - 1. Product Data: Submit technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
 - 2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
 - a. Wiring Diagrams: For power, signal, and control wiring and including:
 - 1) Details of interface of electrified door hardware and building safety and security systems.
 - 2) Schematic diagram of systems that interface with electrified door hardware.
 - 3) Point-to-point wiring.
 - 4) Risers.
 - 3. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.
 - a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.
 - 4. Door Hardware Schedule:
 - a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule.

- b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
- c. Indicate complete designations of each item required for each opening, include:
 - 1) Door Index: door number, heading number, and Architect's hardware set number.
 - 2) Quantity, type, style, function, size, and finish of each hardware item.
 - 3) Name and manufacturer of each item.
 - 4) Fastenings and other pertinent information.
 - 5) Location of each hardware set cross-referenced to indications on Drawings.
 - 6) Explanation of all abbreviations, symbols, and codes contained in schedule.
 - 7) Mounting locations for hardware.
 - 8) Door and frame sizes and materials.
 - 9) Degree of door swing and handing.
 - 10) Operational Description of openings with electrified hardware covering egress, ingress (access), and fire/smoke alarm connections.
- 5. Key Schedule:
 - a. After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
 - Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
 - c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
 - d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
 - e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
 - f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.
- C. Informational Submittals:
 - 1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
 - 2. Provide Product Data:
 - a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
 - b. Include warranties for specified door hardware.
- D. Closeout Submittals:
 - 1. Operations and Maintenance Data: Provide in accordance with Division 01 and include: a. Complete information on care, maintenance, and adjustment: data on repair and
 - replacement parts, and information on preservation of finishes.
 - b. Catalog pages for each product.
 - c. Final approved hardware schedule edited to reflect conditions as installed.
 - d. Final keying schedule
 - e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.
 - f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.

- E. Inspection and Testing:
 - 1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for:
 - a. Fire door assemblies, in compliance with NFPA 80.
 - b. Required egress door assemblies, in compliance with NFPA 101.

1.04 QUALITY ASSURANCE

- A. Qualifications and Responsibilities:
 - Supplier: Recognized architectural hardware supplier with a minimum of 5 years documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
 - 2. Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.
 - 3. Architectural Hardware Consultant: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:
 - a. For door hardware: DHI certified AHC or DHC.
 - b. Can provide installation and technical data to Architect and other related subcontractors.
 - c. Can inspect and verify components are in working order upon completion of installation.
 - d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.
 - 4. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.
- B. Certifications:
 - 1. Fire-Rated Door Openings:
 - a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.
 - b. Provide only items of door hardware that are listed products tested by UL LLC, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.
 - 2. Smoke and Draft Control Door Assemblies:
 - a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
 - b. Comply with the maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.
 - 3. Electrified Door Hardware

- a. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
- 4. Accessibility Requirements:
 - a. Comply with governing accessibility regulations cited in "REFERENCES" article 08 7100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.
- C. Pre-Installation Meetings
 - 1. Keying Conference
 - a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
 - 1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
 - 2) Preliminary key system schematic diagram.
 - 3) Requirements for key control system.
 - 4) Requirements for access control.
 - 5) Address for delivery of keys.
 - 2. Pre-installation Conference
 - Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - b. Inspect and discuss preparatory work performed by other trades.
 - c. Inspect and discuss electrical roughing-in for electrified door hardware.
 - d. Review sequence of operation for each type of electrified door hardware.
 - e. Review required testing, inspecting, and certifying procedures.
 - f. Review questions or concerns related to proper installation and adjustment of door hardware.
 - 3. Electrified Hardware Coordination Conference:
 - a. Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping.
- B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.
- C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
- D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.
- E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.

F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.06 COORDINATION

- A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.
- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

1.07 WARRANTY

- A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.
 - 1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
 - 2. Warranty Period: Beginning from date of Final Acceptance, for durations indicated in manufacturer's published listings.
 - a. Mechanical Warranty
 - 1) Locks
 - a) Falcon: 10 years
 - 2) Exit Devices
 - a) Falcon: 10 years
 - 3) Closers
 - a) Falcon SC Series: 10 years
 - b. Electrical Warranty
 - 1) Exit Devices
 - a) Falcon: 1 year

1.08 MAINTENANCE

- A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.
- B. Turn over unused materials to Owner for maintenance purposes.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. The Owner requires use of certain products for their unique characteristics and project suitability to ensure continuity of existing and future performance and maintenance standards. After investigating available product offerings, the Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: "No Substitute."
 - 1. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.
- B. Approval of alternate manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category are only to be considered by official substitution request in accordance with section 01 2500.
- C. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.
- D. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.02 MATERIALS

- A. Fabrication
 - 1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer's recognized installation standards for application intended.
 - 2. Finish exposed screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
 - 3. Provide concealed fasteners wherever possible for hardware units exposed when door is closed. Coordinate with "Metal Doors and Frames", "Flush Wood Doors", "Stile and Rail Wood Doors" to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.
- B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.
 - 1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.
- C. Cable and Connectors:
 - 1. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with number and gage of wires enough to accommodate electric function of specified hardware.
 - 2. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices.
 - 3. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies.
- 2.03 HINGES

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. Ives 5BB series
 - b. Sargent 8200 Series
 - c. ASSA all cylinders
 - 2. Acceptable Manufacturers and Products:
 - a. Hager BB1191/1279 series
 - b. McKinney TB series
- B. Requirements:
 - 1. Provide hinges conforming to ANSI/BHMA A156.1.
 - 2. Provide five knuckle, ball bearing hinges.
 - 3. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
 - a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
 - b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high
 - 4. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
 - a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
 - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
 - 5. 2 inches or thicker doors:
 - a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
 - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
 - 6. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
 - 7. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
 - 8. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
 - a. Steel Hinges: Steel pins
 - b. Non-Ferrous Hinges: Stainless steel pins
 - c. Out-Swinging Exterior Doors: Non-removable pins
 - d. Out-Swinging Interior Lockable Doors: Non-removable pins
 - e. Interior Non-lockable Doors: Non-rising pins
 - 9. Provide hinges with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component. Provide mortar guard for each electrified hinge specified.

2.04 CYLINDRICAL LOCKS – GRADE 1

- A. Manufacturers and Products:
 - Scheduled Manufacturer and Product: a. Sargent 8200 series
 - Acceptable Manufacturers Cylinders:
 a. ASSA No Substitute (Owner Licensed)
- B. Requirements:

- 1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1, and UL Listed for 3-hour fire doors.
- 2. Cylinders: Refer to "KEYING" article, herein.
- 3. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2-inch latch throw. Provide proper latch throw for UL listing at pairs.
- 4. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
- 5. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
- 6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
- 7. Provide electrified options as scheduled in the hardware sets.
- Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.
 a. Lever Design: Quantum.

2.05 EXIT DEVICES

- A. Manufacturers and Products:
 - Scheduled Manufacturer and Product: a. Sargent 8200 series
 - 2. Acceptable Manufacturers and Products: a. No Substitute
- B. Requirements:
 - 1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
 - 2. Cylinders: Refer to "KEYING" article, ASSA Owners licensed required.
 - 3. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
 - 4. Provide flush end caps for exit devices.
 - 5. Provide exit devices with manufacturer's approved strikes.
 - 6. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
 - 7. Mount mechanism case flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
 - 8. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
 - 9. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
 - 10. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
 - 11. Provide electrified options as scheduled.
 - 12. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.

2.06 CYLINDERS

- A. Manufacturers:
 - 1. Scheduled Manufacturer and Product:
 - a. Match existing type and keyway

- Acceptable Manufacturers and Products:
 a. No Substitute
- B. Requirements:
 - 1. Provide cylinders/cores to match Owner's existing key system, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.

2.07 KEYING

- A. Scheduled System:
 - 1. Existing factory registered system:
 - Provide cylinders/cores keyed into Owner's existing factory registered keying system (ASSA) Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.
- B. Requirements:
 - 1. Construction Keying:
 - a. Temporary Construction Cylinder Keying.
 - 1) Provide construction cylinders/cores per owner's request
 - Owner or Owner's Representative will void operation of temporary construction keys.
 - 2. Permanent Keying:
 - a. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
 - 1) Master Keying system as directed by the Owner.
 - b. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
 - c. Provide keys with the following features:
 - 1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
 - 2) Patent Protection: Keys and blanks protected by one or more utility patent(s).
 - d. Identification:
 - 1) Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
 - 2) Identification stamping provisions must be approved by the Architect and Owner.
 - 3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
 - 4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
 - 5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
 - e. Quantity: Furnish in the following quantities.
 - 1) Change (Day) Keys: 3 per cylinder/core.
 - 2) Master Keys: 6.

2.08 KEY CONTROL SYSTEM

- A. Manufacturers:
 - 1. Scheduled Manufacturer: a. Sargent
- B. Requirements:
 - 1. Provide key control system, including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150% of number of locks required for Project.
 - a. Provide complete cross index system set up by hardware supplier, and place keys on markers and hooks in cabinet as determined by final key schedule.
 - b. Provide hinged-panel type cabinet for wall mounting.

2.09 DOOR CLOSERS

- A. Manufacturers and Products:
 - Scheduled Manufacturer and Product: a. Sargent 8200 series
 - Acceptable Manufacturers and Products:
 a. No Substitute
- B. Requirements:
 - Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
 - 2. Provide door closers with fully hydraulic, full rack and pinion action with aluminum cylinder.
 - 3. Closer Body: 1-1/2-inch (38 mm) diameter with 5/8-inch (16 mm) diameter heat-treated pinion journal.
 - 4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
 - 5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
 - 6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
 - 7. Pressure Relief Valve (PRV) Technology: Not permitted.
 - 8. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.10 PROTECTION PLATES

- A. Manufacturers:
 - 1. Scheduled Manufacturer: a. lves
 - 2. Acceptable Manufacturers: a. Trimco

- b. Rockwood
- B. Requirements:
 - 1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
 - Sizes plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
 - 3. At fire rated doors, provide protection plates over 16 inches high with UL label.

2.11 DOOR STOPS AND HOLDERS

- A. Manufacturers:
 - 1. Scheduled Manufacturer: a. lves
 - 2. Acceptable Manufacturers:
 - a. Trimco
 - b. Rockwood
- B. Provide door stops at each door leaf:
 - 1. Provide wall stops wherever possible. Provide concave type where lockset has a push button of thumbturn.
 - 2. Where a wall stop cannot be used, provide universal floor stops.
 - 3. Where wall or floor stop cannot be used, provide overhead stop.
 - 4. Provide roller bumper where doors open into each other and overhead stop cannot be used.

2.12 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

- A. Manufacturers:
 - 1. Scheduled Manufacturer: a. Zero International
 - 2. Acceptable Manufacturers:
 - a. National Guard
 - b. Pemko
- B. Requirements:
 - 1. Provide thresholds, weather-stripping, and gasketing systems as specified and per architectural details. Match finish of other items.
 - 2. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
 - 3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.
 - 4. Size thresholds 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width unless otherwise specified in the hardware sets or detailed in the drawings.

2.13 SILENCERS

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. Ives
 - 2. Acceptable Manufacturers:
 - a. Rockwood
 - b. Trimco
- B. Requirements:
 - 1. Provide "push-in" type silencers for hollow metal or wood frames.
 - 2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
 - 3. Omit where gasketing is specified.

2.14 DOOR POSITION SWITCHES

- A. Manufacturers:
 - 1. Scheduled Manufacturer: a. Sargent
 - 2. Acceptable Manufacturers: a. GE-Interlogix
- B. Requirements:
 - 1. Provide recessed or surface mounted type door position switches as specified.
 - Coordinate door and frame preparations with door and frame suppliers. If switches are being used with magnetic locking device, provide minimum of 4 inches (102 mm) between switch and magnetic locking device.
- 2.15 FINISHES
 - A. FINISH: BHMA 626/652 (US26D) FOR ESTIMATING PURPOSE ONLY. PROVIDE HARDWARE WITH FINISH MATCHES EXISTING

PART 3 - EXECUTION

- 3.01 EXAMINATION
 - A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. Verify doors, frames, and walls have been properly reinforced for hardware installation.
 - B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.

C. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
 - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - 2. Custom Steel Doors and Frames: HMMA 831.
 - 3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
 - 4. Installation Guide for Doors and Hardware: DHI TDH-007-20
- B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.
- C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.
- D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.
- F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.
- I. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY sections for:
 - 1. Conduit, junction boxes and wire pulls.
 - 2. Connections to and from power supplies to electrified hardware.
 - 3. Connections to fire/smoke alarm system and smoke evacuation system.
 - 4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
 - 5. Connections to panel interface modules, controllers, and gateways.
 - 6. Testing and labeling wires with Architect's opening number.
- J. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.
- K. Door Closers: Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.

- L. Closer/Holders: Mount closer/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
- M. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.
- N. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
- O. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.
- P. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
- Q. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- R. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

3.03 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
 - 1. Spring Hinges: Adjust to achieve positive latching when door can close freely from an open position of 30 degrees.
 - 2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
 - 3. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
- B. Occupancy Adjustment: Approximately three to six months after date of Final Acceptance, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.04 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items per manufacturer's instructions to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Final Acceptance.
- 3.05 DOOR HARDWARE SCHEDULE

- A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.
- B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application.
- C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.
- D. Hardware Sets:

Hardware Group No. 01

For use on Door #(s):

101

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	PANIC HARDWARE	8804-F-ETL Rim Exist	689	SAR
1	EA	MORTISE CYLINDER		626	
1	EA	SURFACE CLOSER	1431-UO-TB	689	SAR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	429 @ HEAD & JAMBS	AA	ZER
1	EA	DOOR SWEEP	39A	А	ZER
1	EA	THRESHOLD	655A - OR PER SILL DETAILS	А	ZER

HARDWARE IS FOR HOLLOW METAL DOOR/FRAME

Hardware Group No. 02

For use on Door #(s):

110

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	630	IVE
1	EA	STOREROOM LOCK	8204-LNL-26D	626	SAR
1	EA	WALL STOP	WS401/402CCV	626	IVE

Hardware Group No. 03

For use on Door #(s):

113 114

Provide each door(s) with the following:

-						
	QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
	3	EA	HINGE	5BB1HW 5 X 4.5	630	IVE
	1	EA	KEYED PRIVACY W/ INDICATOR	8205-LNMD-26D LH	626	SAR
	1	EA	SURFACE CLOSER	1431-UO-TB	689	SAR
	1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
	1	EA	WALL STOP	WS401/402CCV	626	IVE
	1	EA	SEAL	429A	719	ZER
	1	EA	DOOR SWEEP	39A	719	ZER

Hardware Group No. 04

For use on Door #(s):

100

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	630	IVE
1	EA	PASSAGE LEVER SET	8215-LNMI-26D	626	SAR
1	EA	WALL STOP	WS401/402CCV	626	IVE

Hardware Group No. 05

For use on Door #(s):

112

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	NOTE	ALL HARDWARE BY AD SYSTEM		
			CONTRACTOR/MANUFACTURER		

Hardware Group No. 06

For use on Door #(s):

<u>100A</u>

Provide each door(s) with the following:

<u>QTY</u>		DESCRIPTION	CATALOG NUMBER	<u>FINISH</u>	MFR
<u>1</u>	<u>EA</u>	ELEC PANIC HARDWARE	RX-EA-25-R-NL-CON 9 VOLT	<u>626</u>	<u>FAL</u>
			BATTERY WITH HARDWIRED		
			OPTION		

END OF SECTION 08 7100