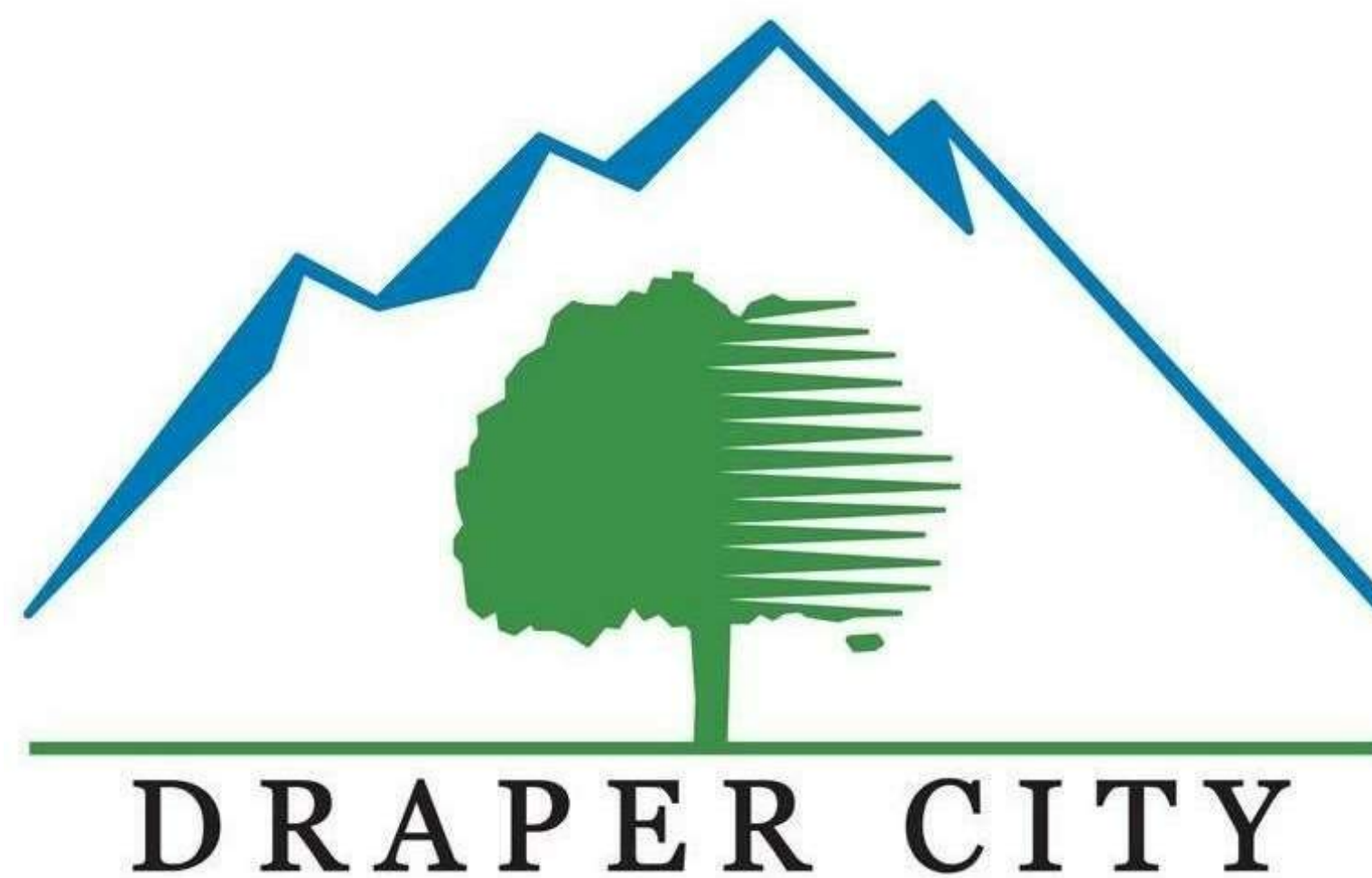


# 2019 DRAPER CITY HALL UPPER LEVEL REMODEL

1020 PIONEER ROAD  
DRAPER, UTAH 84020

06/21/2019  
CONSTRUCTION BID SET



MECHANICAL ENGINEER



**WHW ENGINEERING INC**

8619 SOUTH SANDY PARKWAY #101 / SANDY, UTAH 84070  
801466.4021 / www.whw-engineering.com

ELECTRICAL ENGINEER



**SPECTRUM ENGINEERS**

324 SOUTH STATE STREET #400 / SALT LAKE CITY, UTAH  
84111 801.328.5151 / www.spdesign.com

ARCHITECT'S INFORMATION:



**SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.**  
108 West Center Street  
Bountiful, Utah 84010  
1.801.298.1368 - 1.801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:



CODE OFFICIAL STAMP:

PROJECT NAME:

2019 DRAPER CITY HALL  
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OWNER PROJECT #:

SPE PROJECT #: 19-38

DRAWN BY: JBE

CHECKED BY: SPE

DESIGNED BY: SPE

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SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

GI-001



## ABBREVIATIONS

@	at	EA	each	JAN	janitor	RM	room
ABV	above	EIFS	exterior insulation & finish system	JST	joist	RO	rough opening
ACOUS	acoustical	ELEC	electrical	JT	joint	RTU	root top unit (mechanical)
AD	area drain	ELEV	elevation	LAM	laminated	S	south
ADJ	adjustable	EMER	emergency	LAV	lavatory	SAFB	sound attenuation fiber batt
AFF	above finished floor	ENCL	enclosure	LB(S)	pounds	SC	scupper
ALT	alternate	EOS	edge of slab	LDG	landing	SCHED	schedule
ALUM	aluminum	EQ	equal	LT	light	SEAL	sealant
APPROX	approximate	EQUIP	equipment	MAX	maximum	SECT	section
ARCH	architect	ETR	existing to remain	MECH	mechanical	SF	square foot
B.O.	bottom of	EW	each way	MEMB	membrane	SHT	sheet
BALC	balcony	EWC	electric water cooler	MFR	manufacturer	SIM	similar
BD	board	EXP. JT.	expansion joint	MIN	minimum	SPEC	specification
BET	between	EXTG.	existing	MISC	miscellaneous	SQ	square
BLDG	building	F.O.	face of	MO	masonry opening	SS	stainless steel
BLKG	blocking	FA	fire alarm	MTD	mounted	STD	standard
BLW	below	FAP	fire annunciator panel	MTL	metal	STL	steel
BM	beam	FD	floor drain	(N)	new	STOR	storage
BOT	bottom	FE	fire extinguisher	N	north	STRUCT	structural
BRKT	bracket	FEC	fire extinguisher cabinet	NIC	not in contract	SUSP	suspended
BULKHD	bulkhead	FG	finish group	NO	number	SYM	symmetrical
BUR	built up roof	FH	fire hydrant	NOM	nominal	T	tread
		FHC	fire hose cabinet	NTS	not to scale	T&G	tongue & groove
		FIN	finish	O.P.	overflow pipe	TEL	telephone
C.G.	corner guard	FLR	floor	OA	overall	TER	terrazzo
CAB	cabinet	FLUOR	fluorescent	OC	on center	THK	thick
CALK	caulking	FT	foot or feet	OD	outside diameter	THR	threshold
CEM	cement	FUR	furring	OFF	office	TO	top of
CER	ceramic	FV	field verify	OH	opposite hand	TOM	top of masonry
CJ	control joint	GAL	gallon	OPG	opening	TYP	typical
CLG	ceiling	GALV	galvanized	OPP	opposite	UC	undercut
CLOS	closet	GL	glass	PART	partition	UNFIN	unfinished
CLR	clear	GND	ground	PERM	perimeter	UNO	unless noted otherwise
CO	cased opening	GWB	gypsum board	PLAM	plastic laminate	UON	unless otherwise noted
COL	column	GYP	gypsum	PLAS	plaster	UTIL	utility
CONC	concrete	H.W.H.	hot water heater	PLYWD	plywood	VCT	vinyl composition tile
CONC CONT	concrete continuous	HC	handicapped	PR	paint	VERT	vertical
CPT	carpet	HDWD	hardwood	PT	paint	VIF	verify in field
CT	ceramic tile	HDWR	hardware	PTD	pointed	VTR	vent termination pipe
CTR	center	HM	hollow metal	R	riser	W	west
DBL	double	HORIZ	horizontal	RAD	radius	W/	with
DET	detail	HR	hour	RCP	reflected ceiling plan	W/O	without
DIA	diameter	HT	height	RD	roof drain	WC	water closet
DIM	dimension	ID	inner diameter	RE	refer	WIN	window
DN	down	INCAN	incandescent	REF	refrigerator	WP	waterproof
DR	door	INSUL	insulation	REINF	reinforced	WS	wet stack
DS	down spout	INT	interior	REQD	required	WSCT	wainscot
DW	dishwasher			RESIL	resilient	WT	weight
DWG	drawing						
Ø	diameter						
(E)	existing						
E	east						

## GENERAL NOTES

- THE CONTRACTOR IS TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXTENT OF WORK AND COORDINATE ALL TRADES.
- ALL DIMENSIONS ARE TO BE FIELD VERIFIED - ANY VARIATIONS IN DIMENSIONS ARE TO BE REVIEWED WITH THE ARCHITECT.
- WHERE EXISTING WALLS ARE REMOVED PATCH REMAINING WALLS AS REQUIRED FOR FLUSH FINISHED APPEARANCE.
- THIS CONTRACTOR IS RESPONSIBLE FOR PATCHING/REPAIRING ALL IMPERFECTIONS IN ALL NEW AND EXISTING WALLS AFFECTED BY THIS CONTRACT, INCLUDING HOLES, DENTS, BUMPS WAVES ETC. IT IS THE CONTRACTORS RESPONSIBILITY TO VISIT THE JOB SITE PRIOR TO BIDDING AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL SUCH WORK, THAT WILL BE REQUIRED.
- CORRIDORS SHALL NOT BE USED FOR STORAGE OF MATERIALS OR STAGING OF THE WORK.
- PATCH AND REPAIR WALLS AT OUTLETS AND AT OTHER OPENINGS REQUIRED BY THIS REMODELING.
- GRID LINES ARE ORIGINAL BUILDING GRID LINES.
- PROTECT EXTG. FINISHES FROM DAMAGE.
- DO NOT SCALE DRAWINGS. STATED & WRITTEN DIMENSIONS GOVERN. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL BE RESPONSIBLE FOR THEIR ACCURACY. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED BECAUSE OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON THE DRAWINGS, UNLESS THEY CONTRIBUTE TO A CHANGE IN THE SCOPE OF THE WORK. ANY DIFFERENCE WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR DECISION PRIOR TO ORDERING, MANUFACTURING, OR PROCEEDING WITH THE WORK. HORIZONTAL DIMENSIONS INDICATED ARE TO/FROM FACE OF FINISH, UNLESS NOTED OTHERWISE. VERTICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB EXCEPT WHERE NOTED TO BE ABOVE FINISHED FLOOR (AFF). DIMENSIONS ARE NOT ADJUSTABLE WITHOUT A APPROVAL OF ARCHITECT UNLESS NOTED +/-.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK REGARDLESS OF THE LOCATION OF THE INFORMATION IN THE DOCUMENTS. THE GENERAL CONTRACTOR SHALL UTILIZE THE CONSTRUCTION DRAWINGS AND WRITTEN SPECIFICATIONS FOR ALL REQUIRED INFORMATION TO PROVIDE COMPLETE CONSTRUCTION OF THIS PROJECT. ITEMS LISTED IN DRAWINGS MAY NOT BE INCLUDED IN SPECIFICATIONS. ITEMS LISTED IN SPECIFICATIONS MAY NOT BE INCLUDED IN DRAWINGS.
- DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS ARE NOT INTENDED. THE GENERAL CONTRACTOR IS TO CLARIFY WITH THE ARCHITECT ANY SUCH DISCREPANCIES PRIOR TO COMMENCING WORK.
- THE CONTRACTOR IS TO PROVIDE DUST WALL AS REQUIRED TO PERFORM NEW WORK - COORDINATE LOCATION OF DUST WALLS WITH OWNER.
- CONTRACTOR'S STAGING AREA IS TO BE PROVIDED WITH A SECURE, LOCKED, 6'-0" (PER IBC 3306) TALL TEMPORARY CHAIN LINK FENCE. STAGING AREA SHALL NOT BLOCK DOORS, DOCKS, SIDEWALKS ETC. ALL GAPS IN FENCE TO BE MAINTAINED LESS THAN 4". REMOVE AND SECURE ALL LADDERS AT THE END OF EACH DAY. DUMPSTER MUST BE KEPT IN LOCKED FENCED AREA. COORDINATE LOCATION OF STAGING WITH OWNER.

## DRAWING INDEX


SHT. #	DRAWING TITLE
<b>GENERAL:</b>	
GI-001	TITLE SHEET
GI-002	GENERAL INFORMATION
GI-003	CODE COMPLIANCE INFORMATION
GI-004	ADA GENERAL REQUIREMENTS
<b>ARCHITECTURAL:</b>	
AD-101	DEMOLITION PLAN
AE-101	FLOOR PLAN
AE-102	REFLECTED CEILING PLAN
AE-103	ROOF PLAN
AE-104	DIMENSION PLAN
AE-201	INTERIOR ELEVATIONS
AE-202	INTERIOR ELEVATIONS
AE-401	ENLARGED PLAN
AE-501	DETAILS
AE-502	DETAILS
AE-601	SCHEDULES
<b>MECHANICAL:</b>	
MG001	MECHANICAL GENERAL NOTES AND LEGEND
ME101	MECHANICAL UPPER LEVEL FLOOR PLAN
ME102	MECHANICAL ROOF PLAN
ME501	MECHANICAL DETAILS
ME601	MECHANICAL SCHEDULES
PG001	PLUMBING LEGEND AND GENERAL NOTES
PD101	PLUMBING UPPER LEVEL - DEMO
PE401	ENLARGED PLUMBING FLOOR PLANS
PE501	PLUMBING DETAILS
PE601	PLUMBING SCHEDULES
PE801	PLUMBING ISOMETRICS
<b>ELECTRICAL:</b>	
EE-001	SHEET INDEX, SYMBOLS, GENERAL NOTES
EE-701	TYPICAL MOUNTING HEIGHT DETAILS
EP-101	UPPER LEVEL DEMOLITION ELECTRICAL PLAN
EP-101	UPPER LEVEL POWER PLAN
EP-401	ENLARGED UPPER LEVEL POWER PLAN
EP-601	PANEL & EQUIPMENT SCHEDULE
EL-101	UPPER LEVEL LIGHTING PLAN
EL-401	ENLARGED UPPER LEVEL LIGHTING PLAN
EL-601	LIGHTING FIXTURE SCHEDULE

ARCHITECT'S INFORMATION



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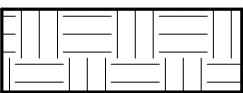







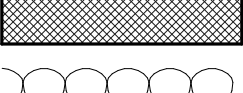
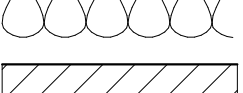




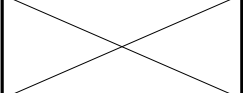
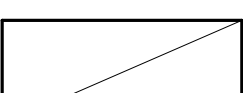
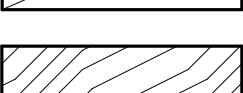
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SHEET TITLE

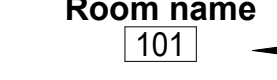

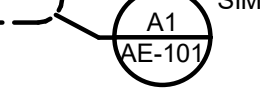
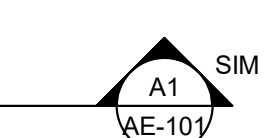
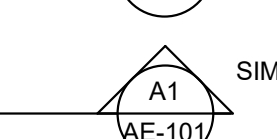
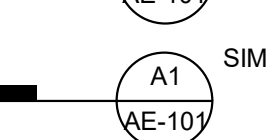

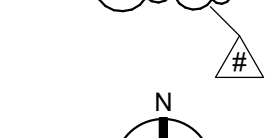
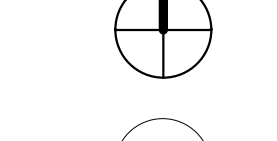
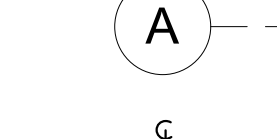
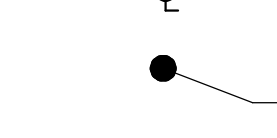
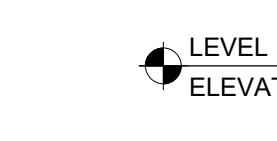
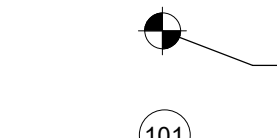
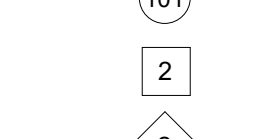
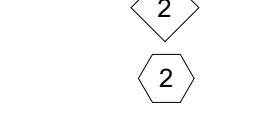
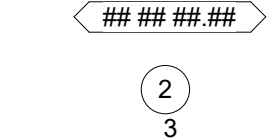


**GENERAL INFORMATION**

SHEET NUMBER:  
**GI-002**

## MATERIALS

	EARTH
	STRUCTURAL FILL
	CMU MASONRY
	BRICK MASONRY
	CONCRETE
	GRAVEL
	STEEL
	ALUMINUM
	RIGID INSULATION
	BATT INSULATION
	PLYWOOD
	PARTICLEBOARD
	GYPNUM BOARD
	ASPHALT PAVING
	WOOD (STUDS / NAILERS)
	WOOD (BLOCKING)
	WOOD

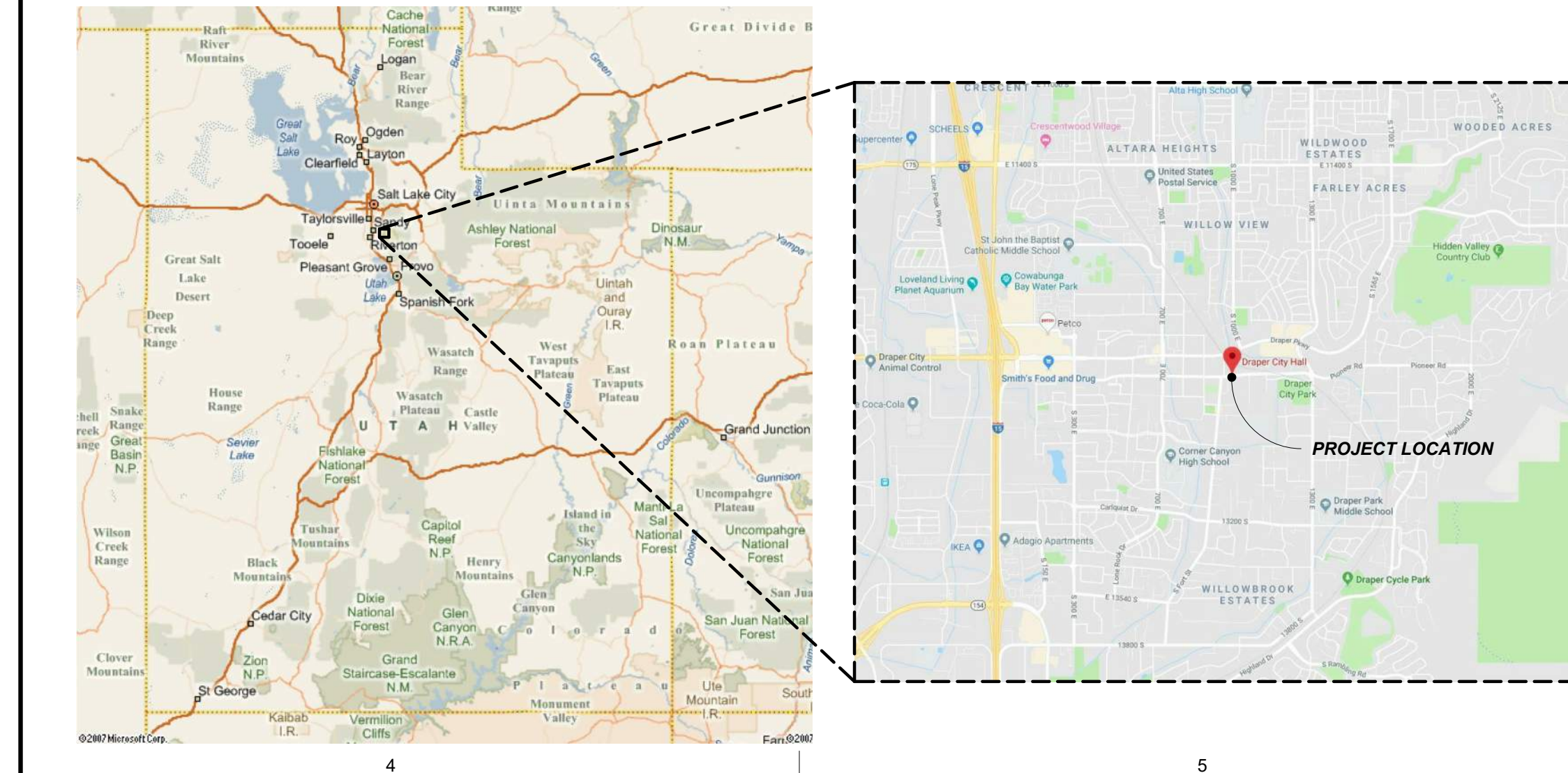
## GRAPHIC SYMBOLS

	ROOM NAME
	ROOM NUMBER
	ROOM SQ. FT. (WHERE OCCURS)
	DETAIL CALLOUT
	BUILDING SECTION
	WALL SECTION
	DETAIL SECTION
	DRAWING REVISION
	REVISION NUMBER
	NORTH ARROW
	GRID REFERENCE
	CENTER LINE
	CEILING HEIGHT
	VERTICAL ELEVATION
	SPOT ELEVATION
	DOOR NUMBER
	WALL TYPE
	WINDOW TYPE
	KEYED NOTE
	KEYED NOTE
	GLASS TYPE

## DEFERRED SUBMITTALS

- For the purpose of this section, deferred submittals are defined as per section 107.3.4.1 of the IBC. Submittal documents for deferred submittal items shall be submitted to the engineer/architect for their review for general conformance with the design of the building. After submittals are reviewed for general conformance by the architect and engineer of record, deferred submittals must be submitted to the building official for approval and that deferred items are not to be installed until approved by the building official (see IBC 107.3.4.1). Deferred submittals for this project are:
- | ITEM #1 | MODIFICATION TO EXISTING FIRE SUPPRESSION SYSTEM. |
|---------|---|
|         | EXPECTED 3 WEEKS AFTER BID HAS BEEN AWARDED.      |
| ITEM #2 | MODIFICATION TO EXISTING FIRE ALARM SYSTEM.       |
|         | EXPECTED 3 WEEKS AFTER BID HAS BEEN AWARDED.      |

## PROJECT LOCATION





# CODE ANALYSIS

APPLICABLE CODES			
	Year		Year
International Building Code	2015	National Electrical Code	2017
International Mechanical Code	2015	Uniform Code for Building Conservation	N.A.
International Plumbing Code	2015	ADA Accessibility Guidelines	2010 ADAG 2009 ANSI 117.1
International Fire Code	2015		
International Energy Conservation Code	2015		

- A. Occupancy and Group: **B, A3, S1 & S2 OVERALL BUILDING**
- Change in Use: Yes  No  Mixed Occupancy: Yes  No   
 Special Use and Occupancy (e.g. High Rise, Covered Mall): **N.A.**
- B. Seismic Design Category: **D** Design Wind Speed: **90** mph
- C. Type of Construction (circle one):  
 I/A I/B II/A **II/B** III/A III/B IV/A IV/B
- D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):  
 North: \_\_\_\_\_ South: \_\_\_\_\_ East: \_\_\_\_\_ West: \_\_\_\_\_
- E. Mixed Occupancies: **YES** Nonseparated Uses: **NO**
- F. Sprinklers:  
 Required: **YES** Provided: **YES** Type of Sprinkler System: **NFPA 13**
- G. Number of Stories: **03** Building Height: **55'**
- H. Actual Area per Floor (square feet): **EXTG. BUILDING**
- I. Tabular Area: **EXTG. BUILDING**
- J. Area Modifications: **N/A**
- K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0	N.A.	Floors - Ceiling Floors	N.A.	
Interior Bearing Walls	0	N.A.	Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0	N.A.	Exterior Doors and Windows	0	
Structural Frame	0	N.A.	Shaft Enclosures	N.A.	
Partitions - Permanent	0	N.A.	Fire Walls	N.A.	
Fire Barriers	1	U600	Fire Partitions	N.A.	
			Smoke Partitions	N.A.	

- \* Upper Floor for Police Wing Only
- L. Design Occupant Load: **69**  
 Exit Width Required: **13.8'** Exit Width Provided: **72'**  
 69 x .2 = 13.8
- M. Minimum Number of Required Plumbing Facilities:
- a) Water Closets - Required (unisex) **2** Provided (unisex) **2**
  - b) Lavatories - Required (unisex) **2** Provided (unisex) **2**
  - c) Bath Tubs or Showers: **(3) unisex showers / change rooms**
  - d) Drinking Fountains: **2** Service Sinks: **1**

FOOTNOTES:

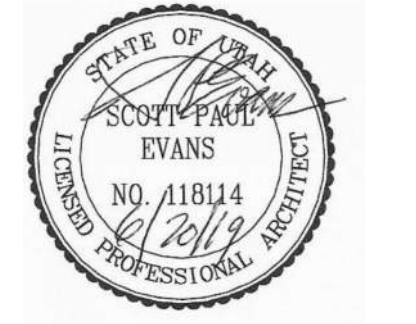
- In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
- Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings, Including, but not limited to:
  - a) High Rise Requirements.
  - b) Atriums.
  - c) Performance Based Criteria.
  - d) Means or Egress Analysis.
  - e) Fire Assembly Locator Sheet.
  - f) Exterior and Interior Accessibility Route.
  - g) Fire Stopping, Including Tested Design Number.

ARCHITECT'S INFORMATION



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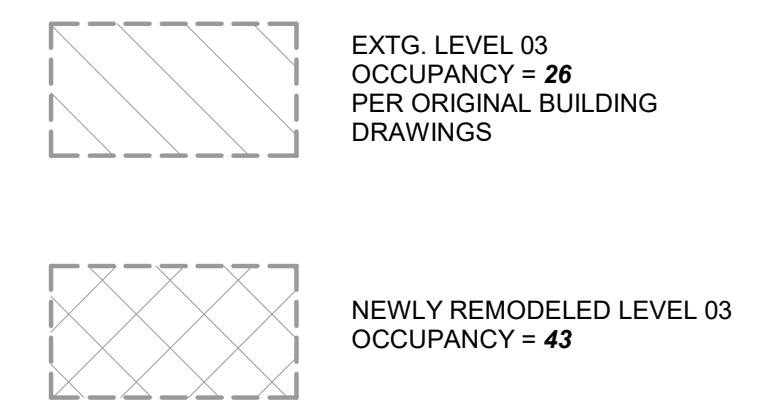
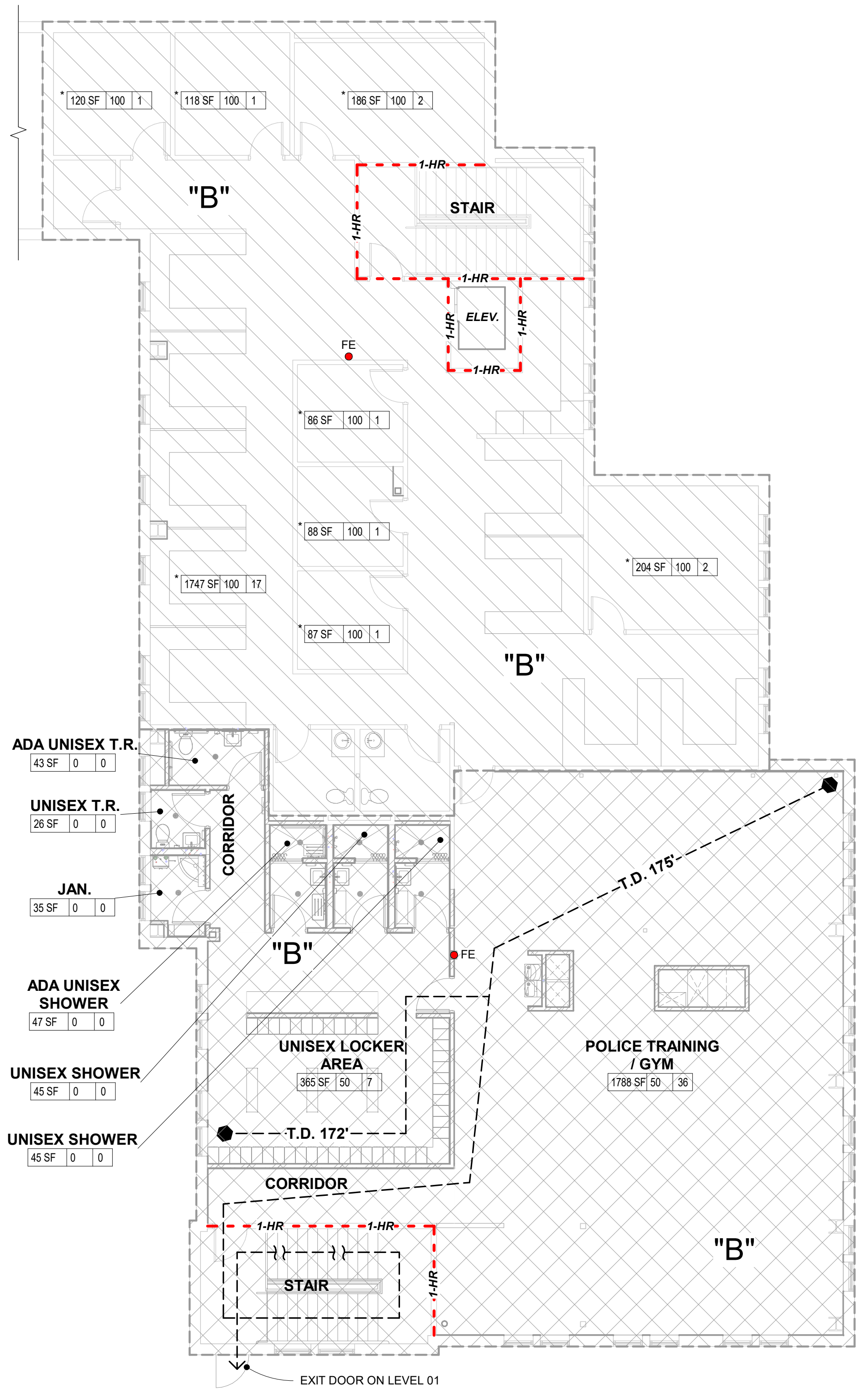
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CODE COMPLIANCE INFORMATION

SHEET NUMBER: **GI-003**



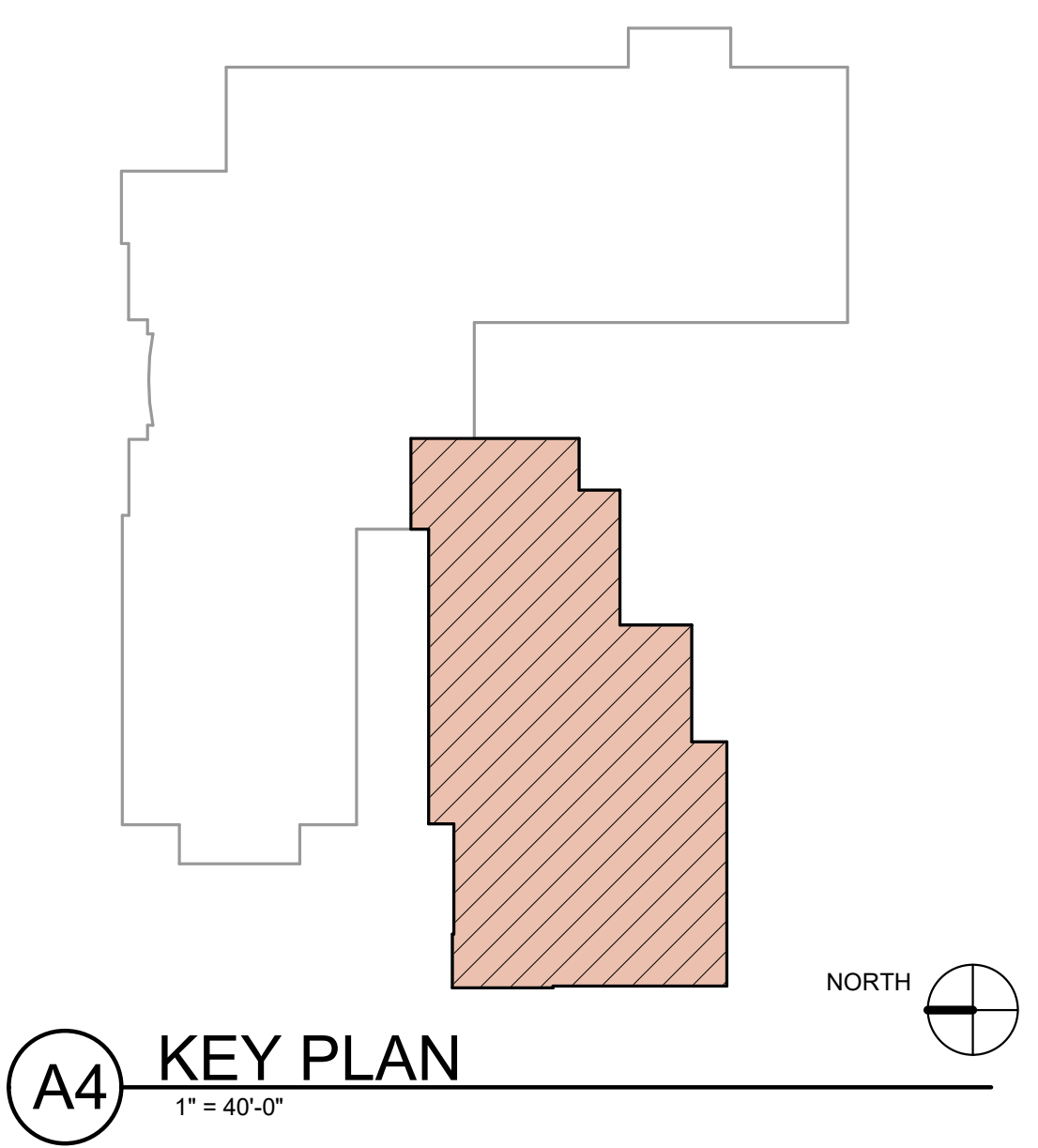
**OCCUPANCY & EXITING LEGEND**

**ROOM NAME**  
 ### SF ### #  
 # OF OCCUPANTS  
 SQUARE FOOTAGE PER OCCUPANT  
 SQUARE FOOTAGE OF ROOM  
 PER ORIGINAL BUILDING DRAWINGS

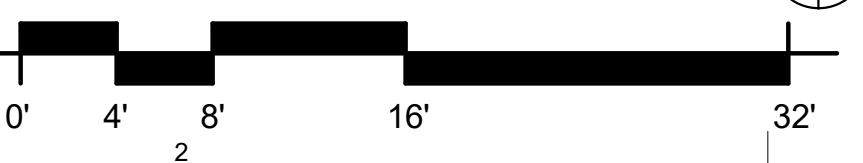
T.D. = TRAVEL DISTANCE

FE FIRE EXTINGUISHER - SEE AE-101 FOR TYPES

1-HR 1-HR = 1-HR FIRE BARRIER



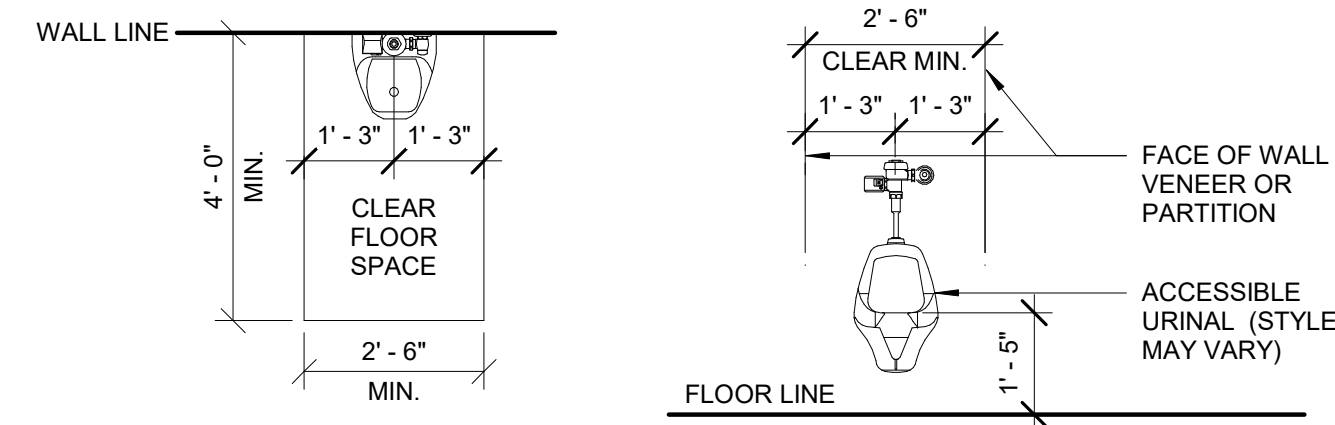
**A1 UPPER LEVEL FLOOR PLAN - CODE PLAN**  
 1/8" = 1'-0"



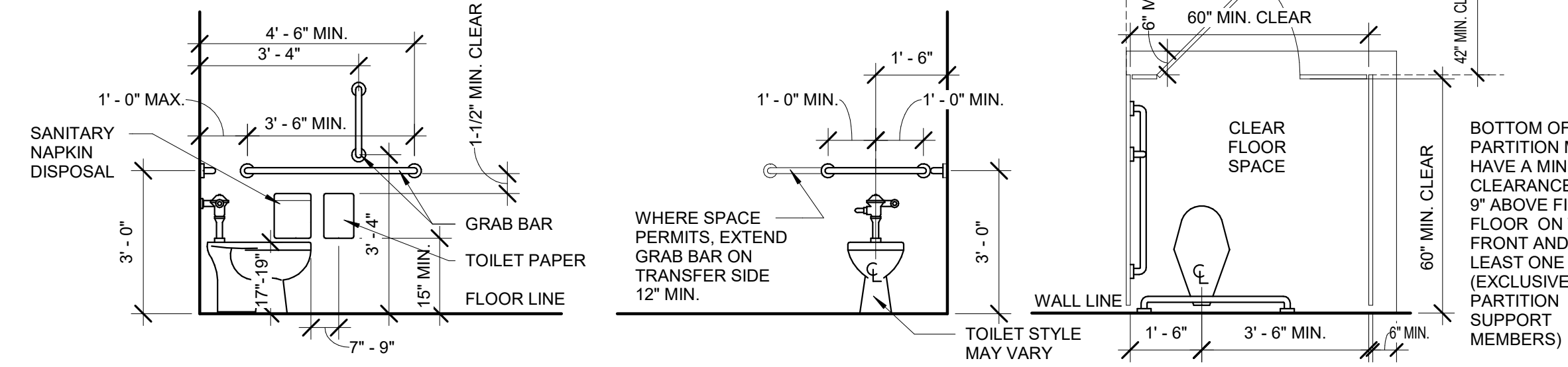
**A4 KEY PLAN**  
 1" = 40'-0"

Last Plotted: 02/12/2019 2:45:39 PM

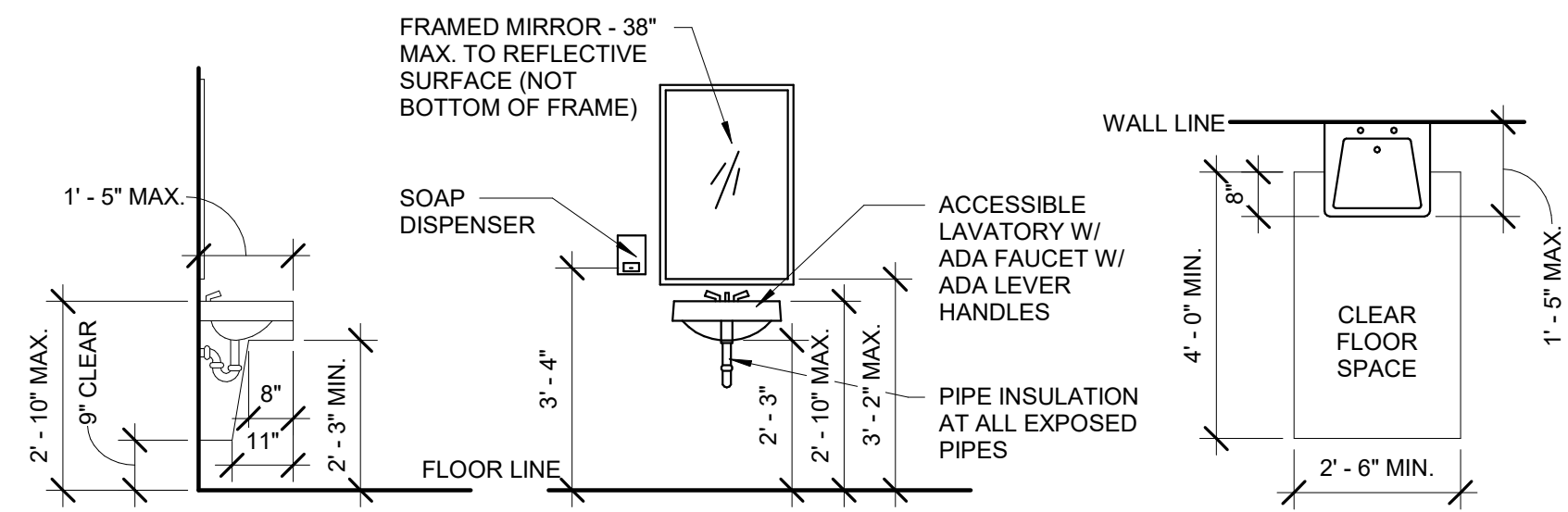




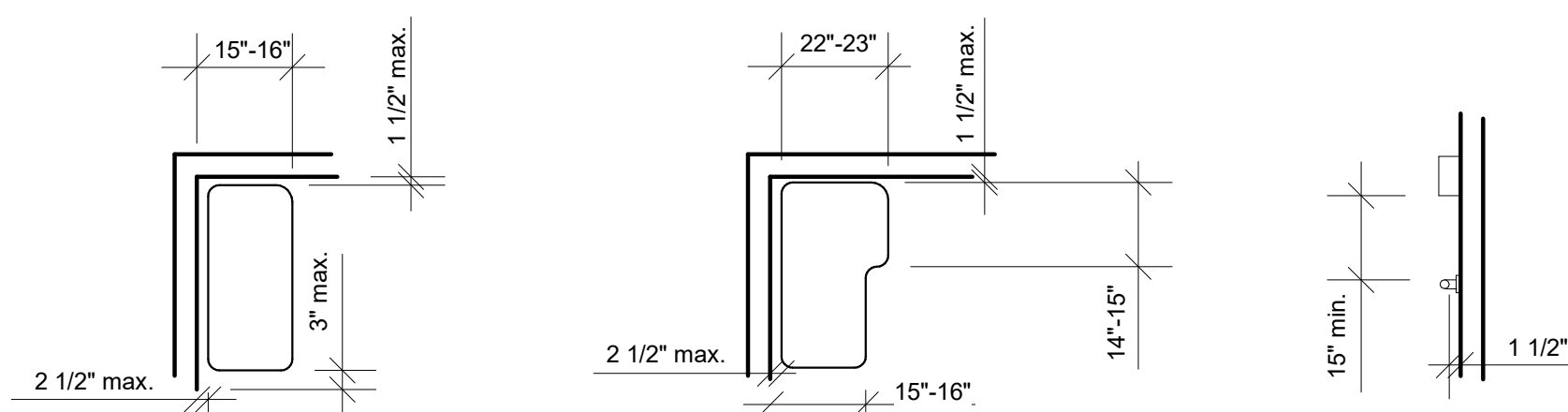
ACCESSIBLE URINAL



ACCESSIBLE TOILET STALL



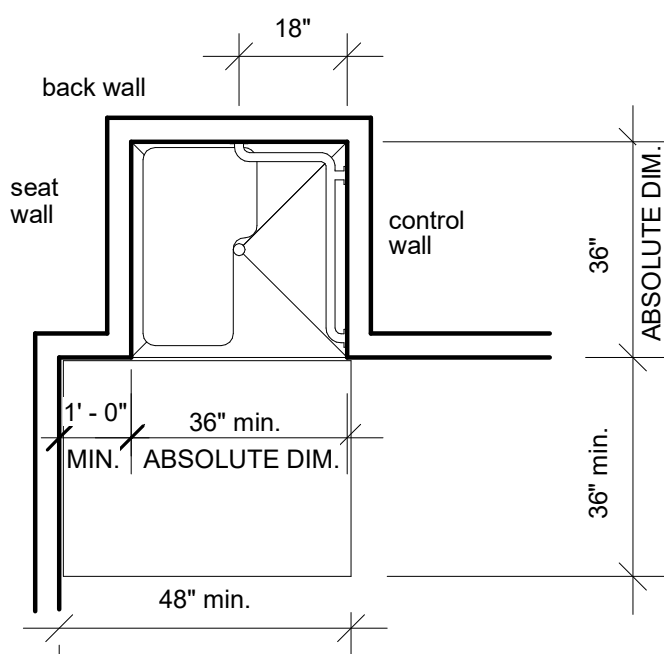
ACCESSIBLE LAVATORY



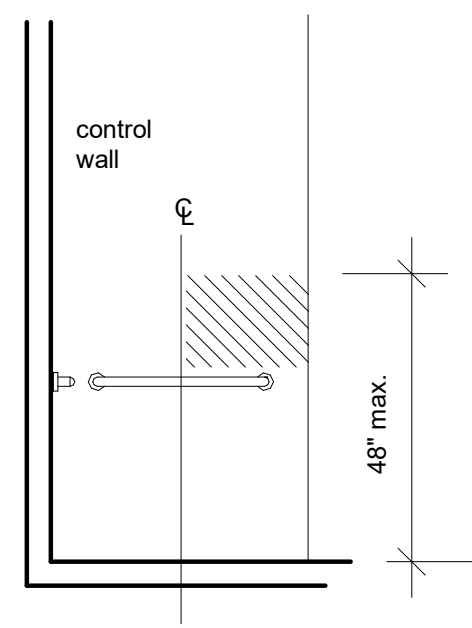
RECTANGULAR SHOWER COMPARTMENT SEAT

L-SHAPED SHOWER COMPARTMENT SEAT

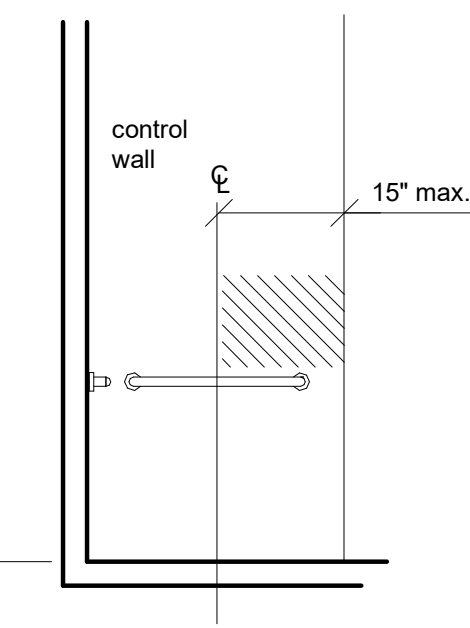
SPACING OF GRAB BARS



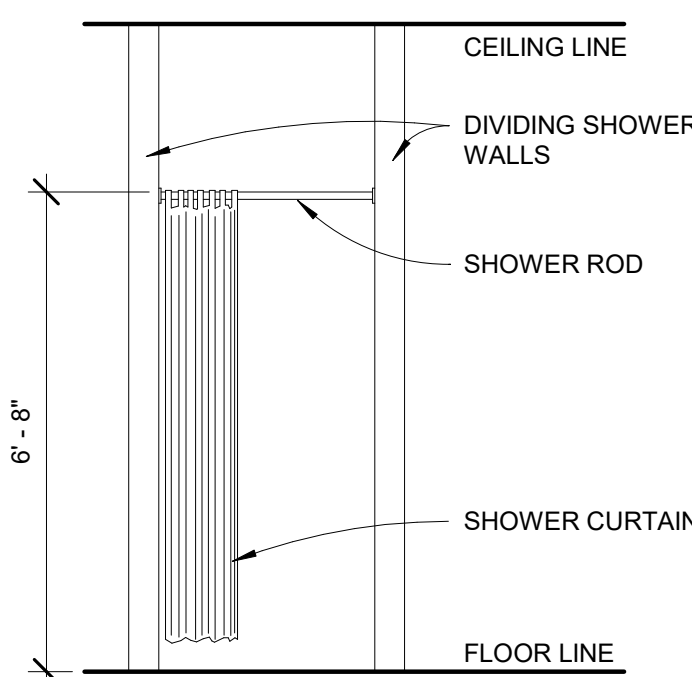
TRANSFER-TYPE SHOWER COMPARTMENT WITH GRAB BARS



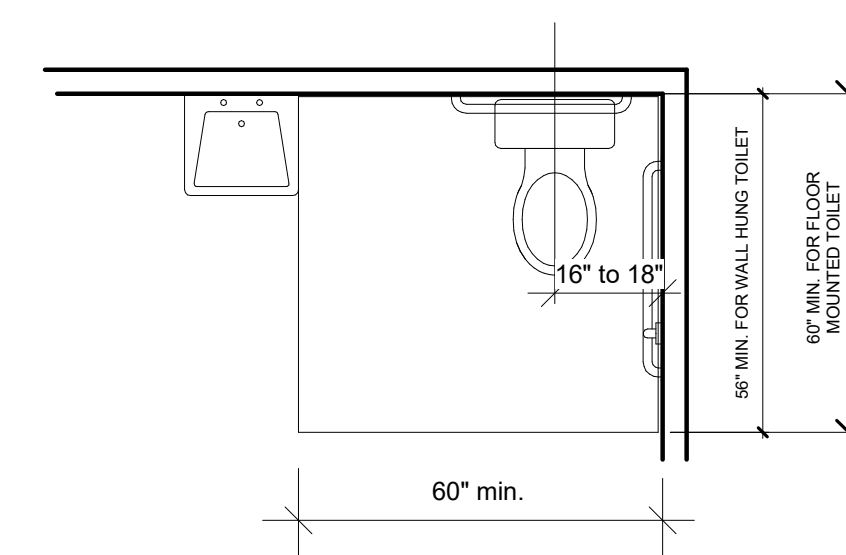
CONTROLS IN TRANSFER-TYPE SHOWER



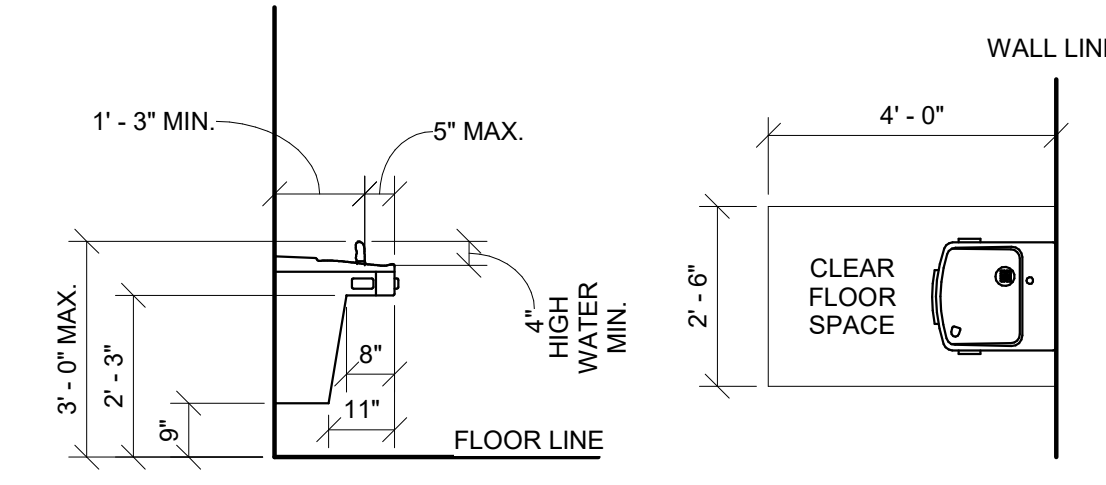
LOCATION OF SHOWER SPRAY UNIT



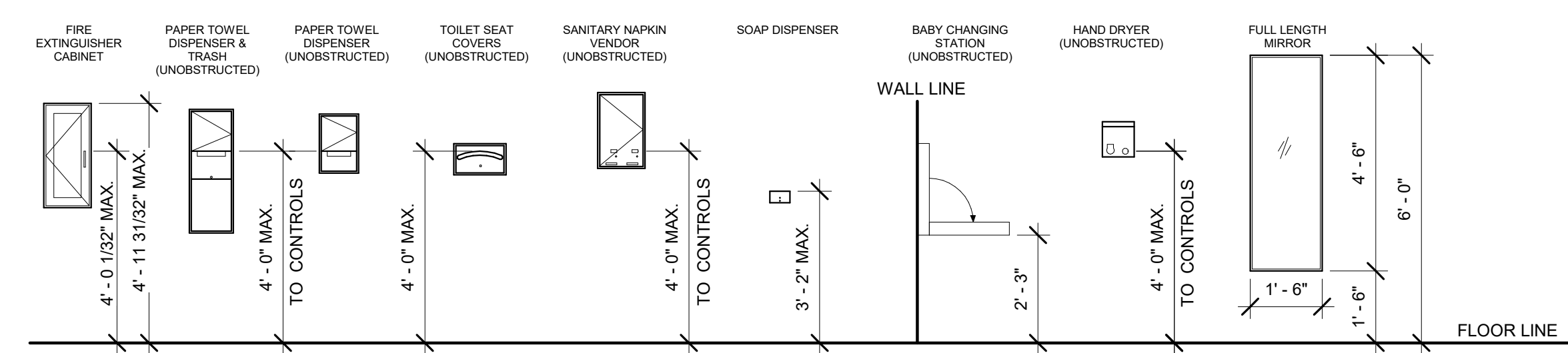
SHOWER ROD AND CURTAIN



WATER CLOSET LOCATION / CLEAR FLOOR SPACE

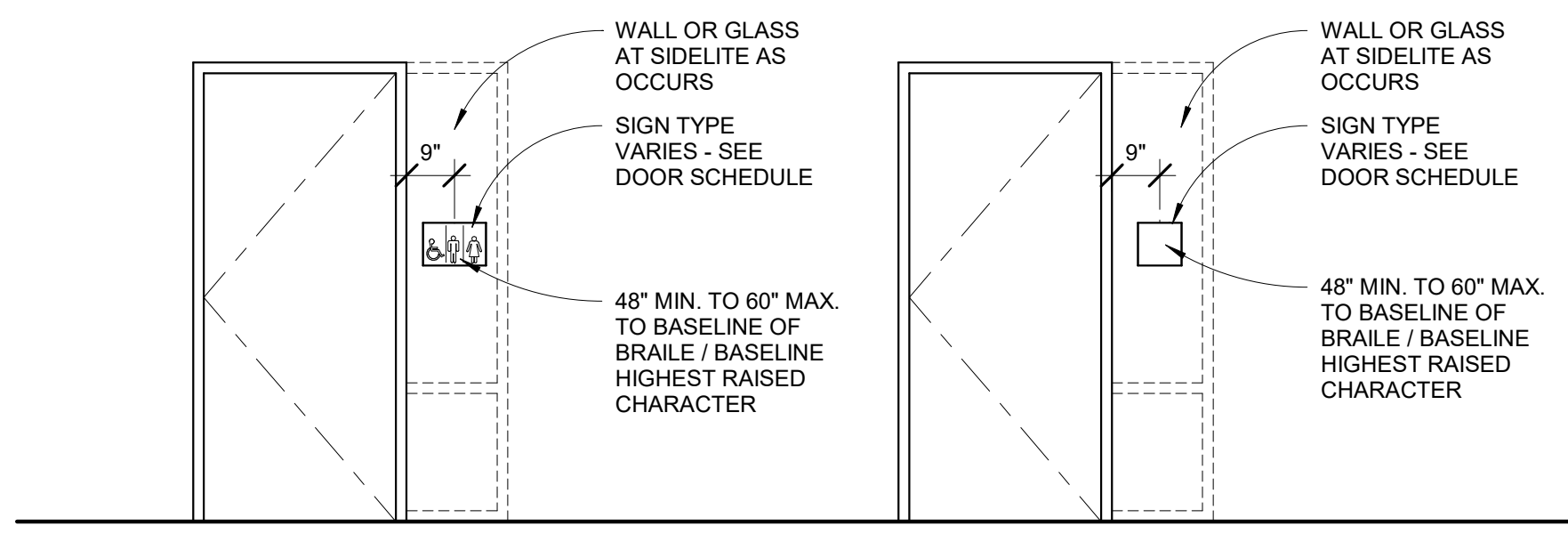


ELECTRIC WATER COOLER

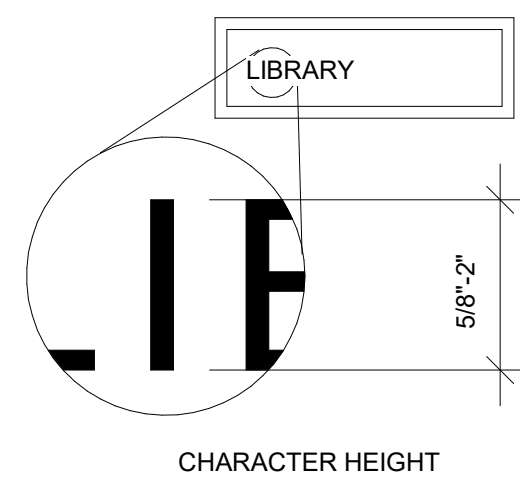


MISC. ACCESSORIES MOUNTING HEIGHT

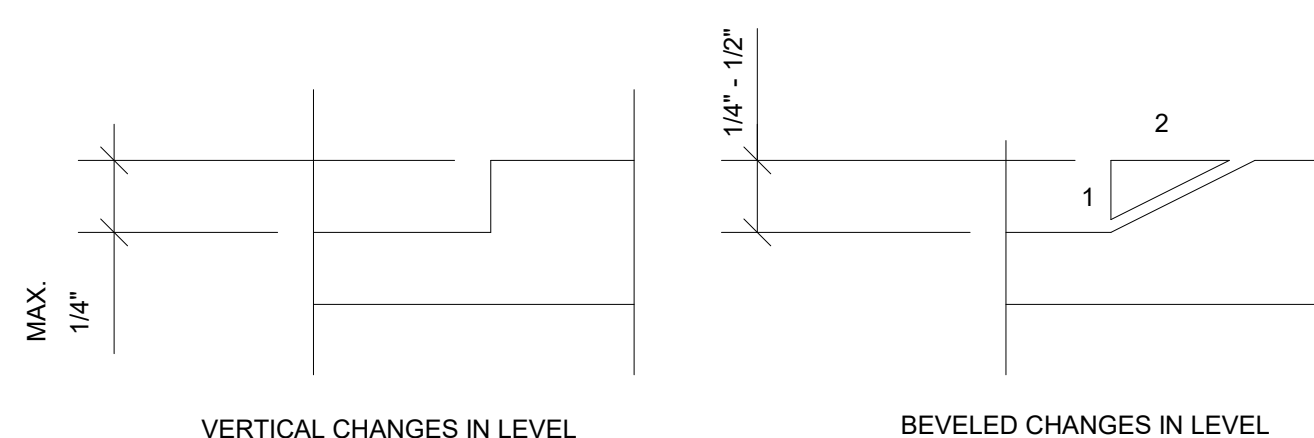
**ACCESSIBLE SHOWERS**  
SHOWERS AND ALL RELATED COMPONENTS MUST FULLY COMPLY WITH THE REQUIREMENTS OF "TRANSFER-TYPE SHOWER COMPARTMENTS" AS STATED IN ICC/ANSI A117.1-2003



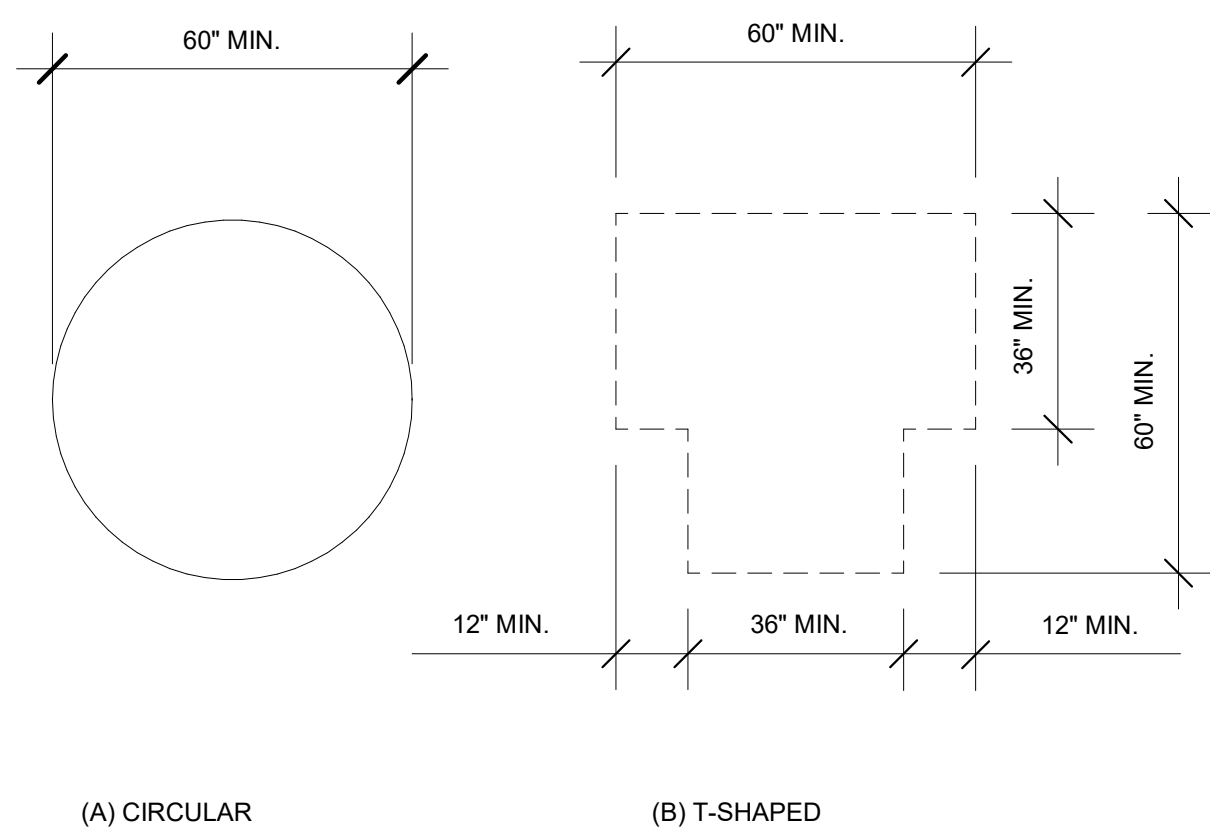
SIGNAGE AT DOORS



CHARACTER HEIGHT



ACCESSIBLE CHANGES IN LEVEL



WHEELCHAIR TURNING SPACE

NOTE: THE INFORMATION ON THIS SHEET INDICATES GENERAL ADA DESIGN REQUIREMENTS AND IS FOR REFERENCE ONLY - ANY DISCREPANCIES BETWEEN THIS SHEET AND THE REST OF THE DESIGN DRAWINGS ARE THE RESPONSIBILITY OF THE USER. IF ANY QUESTIONS OR CONCERNS ARISE DUE TO DISCREPANCIES OR MISSING INFORMATION CONTACT THE ARCHITECT PRIOR TO PERFORMING WORK.  
PROVIDE BLOCKING / BACKING AS REQUIRED FOR ALL WALL MOUNTED ACCESSORIES / FIXTURES

ARCHITECT'S INFORMATION

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www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME

**2019 DRAPER CITY HALL  
UPPER LEVEL REMODEL**

1020 PIONEER ROAD  
DRAPER, UTAH 84020

REVISONS:

NO.	DATE	DESCRIPTION
01	06/21/19	CONSTRUCTION BID SET

ISSUED:

NO.	DATE	DESCRIPTION
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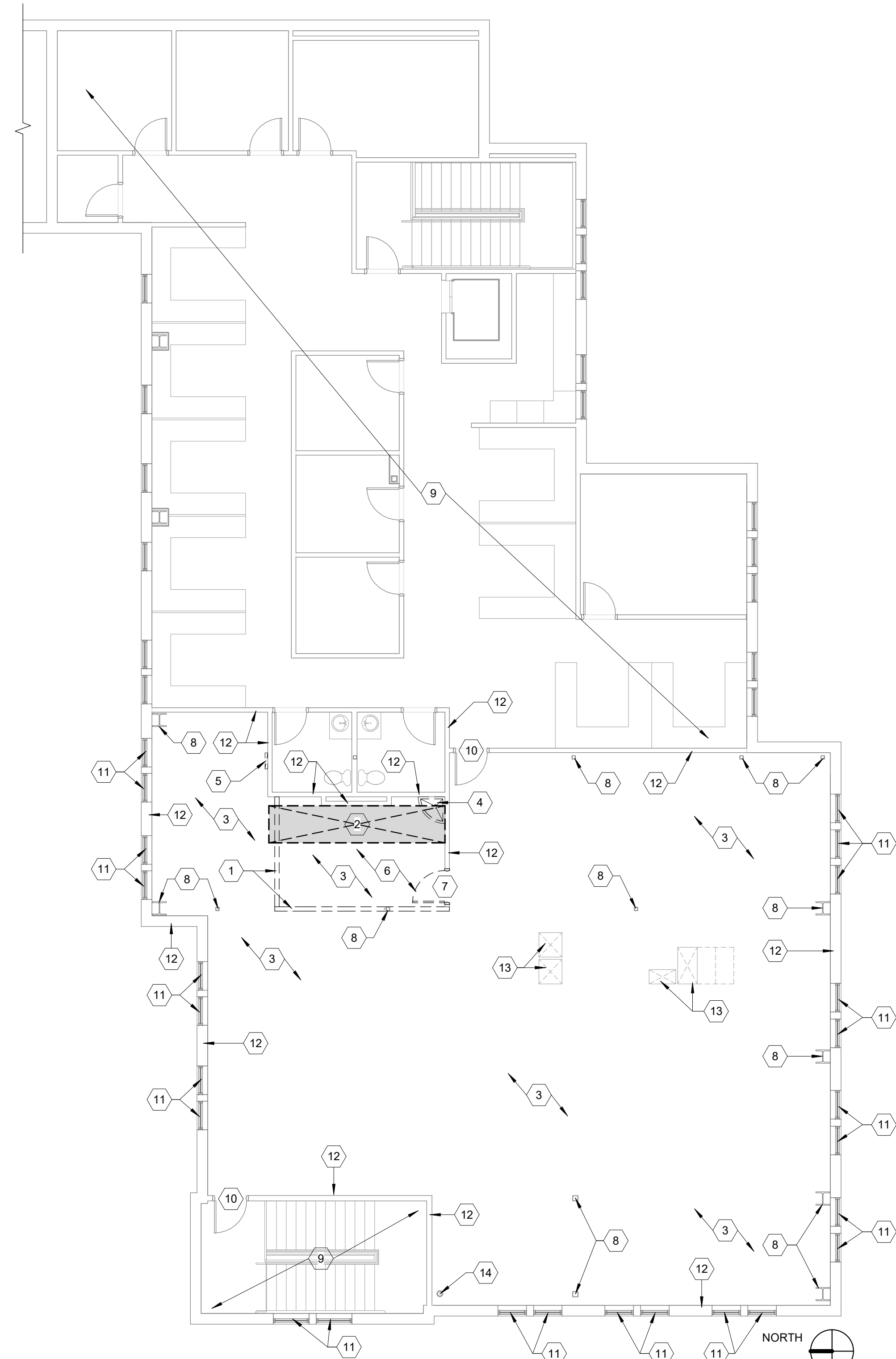
OWNER PROJECT #:

SPE PROJECT #:	19-38
DRAWN BY:	JBE
CHECKED BY:	SPE
DESIGNED BY:	SPE

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**ADA GENERAL REQUIREMENTS**

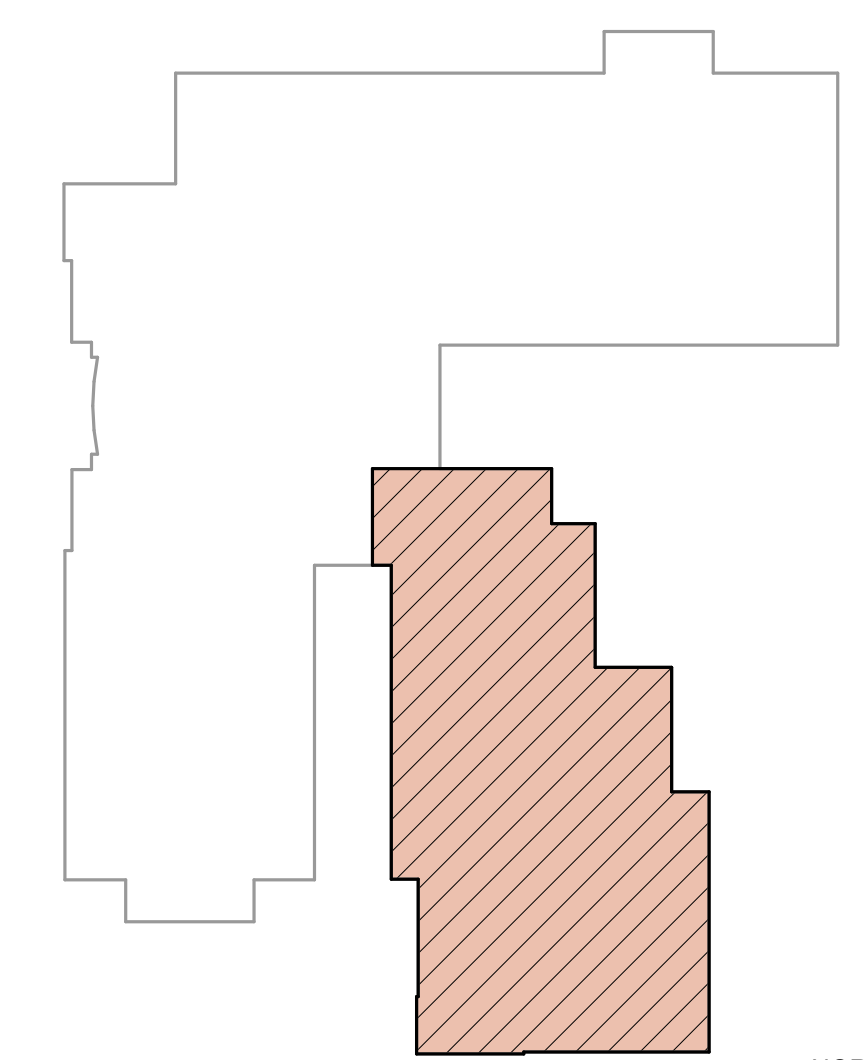
SHEET NUMBER:  
**GI-004**



**A1** UPPER LEVEL - DEMO.  
1/8" = 1'-0"

**KEYED NOTES**

1. REMOVE EXTG. WALL & ALL RELATED MATERIALS - REFER TO MEP DRAWINGS.
2. SAWCUT & REMOVE THE EXTG. CONCRETE SLAB IN THIS AREA (HATCHED) - PREP. FOR NEW CONCRETE SLAB & SLOPED TILE FLOOR SYSTEM - REFER TO AE-101.
3. EXTG. CONCRETE SLAB TO REMAIN - REFER TO AE-101 FOR NEW WORK - PROTECT FROM DAMAGE DURING CONSTRUCTION.
4. REMOVE EXTG. MOP SINK & ALL RELATED MATERIALS INCLUDING THE FRP WALL BACKING - REFER TO PLUMBING DRAWINGS.
5. RELOCATE EXTG. ELECTRICAL PANEL - REFER TO ELECTRICAL DRAWINGS.
6. REMOVE EXTG. LAY-IN CEILING SYSTEM AS REQUIRED (INCLUDING HVAC GRILLES & LIGHTS) - REFER TO MECHANICAL & ELECTRICAL DRAWINGS.
7. REMOVE EXTG. DOOR / FRAME & ALL RELATED MATERIALS.
8. EXTG. STEEL COLUMN TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
9. EXTG. FLOORING, CEILING & WALLS IN THIS AREA TO REMAIN - NO WORK - PROTECT FROM DAMAGE DURING CONSTRUCTION.
10. EXTG. DOOR TO REMAIN - REFER TO AE-101 FOR ANY NEW WORK - PROTECT FROM DAMAGE DURING CONSTRUCTION.
11. EXTG. WINDOW TO REMAIN - REFER TO AE-101 FOR ANY NEW WORK - PROTECT FROM DAMAGE DURING CONSTRUCTION.
12. EXTG. WALL TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION - PREP. WALL AS REQUIRED FOR NEW WORK - REFER TO FLOOR PLAN & FINISH SCHEDULE.
13. EXTG. HVAC DUCTS TO REMAIN - REFER TO MECHANICAL DRAWINGS - PROTECT FROM DAMAGE DURING CONSTRUCTION.
14. EXTG. FIRE RISER TO REMAIN - REFER TO PLUMBING DRAWINGS - PROTECT FROM DAMAGE DURING CONSTRUCTION.



**A5** KEY PLAN  
1" = 40'-0"

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PROJECT NAME

**2019 DRAPER CITY HALL  
UPPER LEVEL REMODEL**

1020 PIONEER ROAD  
DRAPER, UTAH 84020

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ISSUED:

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OWNER PROJECT #:

SPE PROJECT #: 19-38

DRAWN BY: JBE

CHECKED BY: SPE

DESIGNED BY: SPE

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SHEET TITLE

**DEMOLITION  
PLAN**

SHEET NUMBER

**AD-101**

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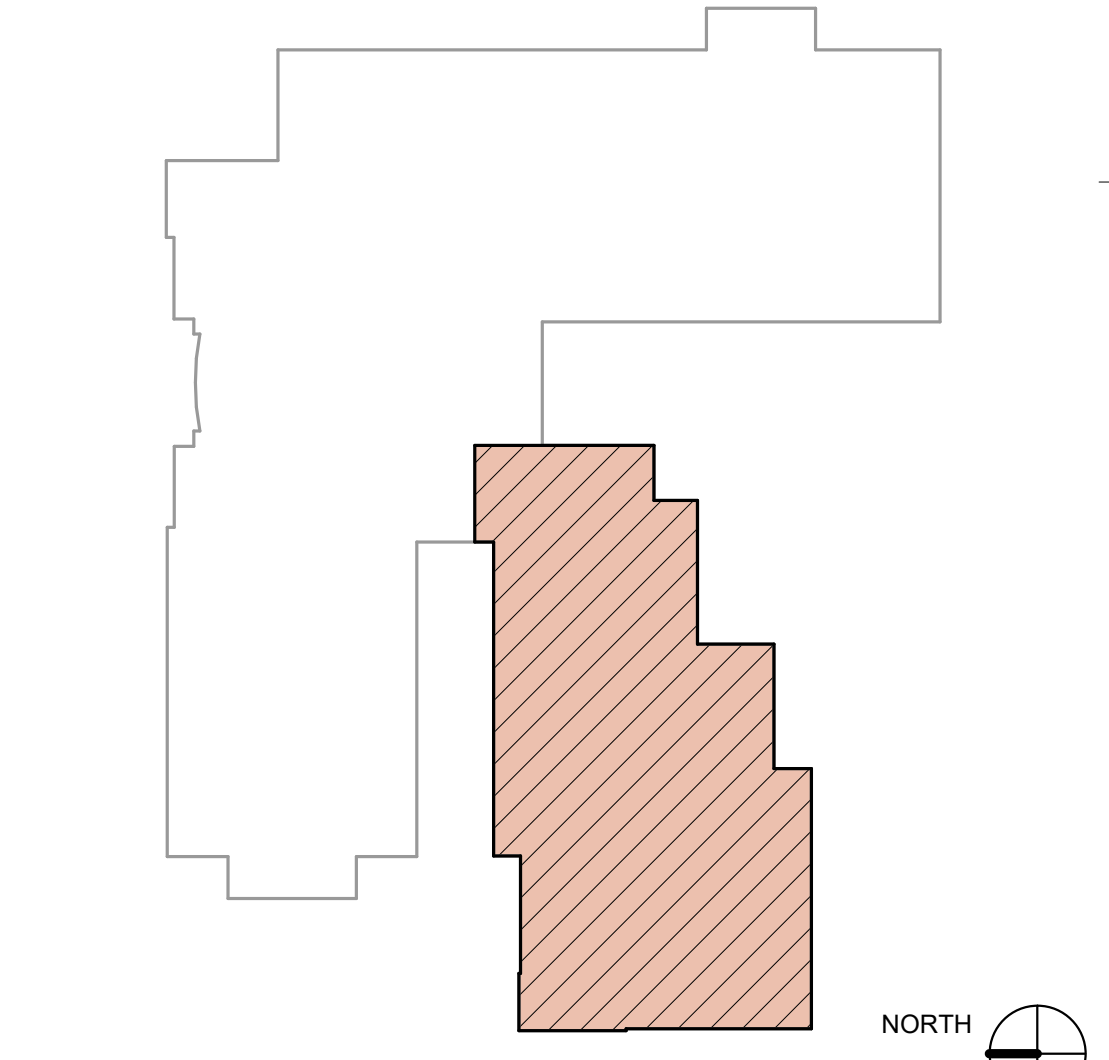
**KEYED NOTES**

- EXTG. FIRE RISER TO REMAIN - REFER TO PLUMBING DRAWINGS - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXTG. HVAC DUCTS TO REMAIN - REFER TO MECHANICAL DRAWINGS - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXTEND EXTG. METAL STUD & GYP. BD. (BOTH SIDES) WALL TO DECK ABOVE - REFER TO WALL TYPES.
- OWNER PROVIDED GYM EQUIPMENT - REFER TO ELECTRICAL DRAWINGS.
- EXTG. STEEL COLUMN TO REMAIN - PAINT - PROTECT FROM DAMAGE DURING CONSTRUCTION - SEE SPEC.
- THRESHOLD TRANSITION BETWEEN THE CONCRETE SLAB & RUBBER FLOORING - REFER TO DETAIL A2/AE-502 - SEE SPEC.
- RUBBER FLOOR IN THIS AREA - SEE FINISH SCHEDULE & SPEC.
- REINSTALL EXTG. CARD READER ON NEW WALL SURFACE AS REQUIRED.

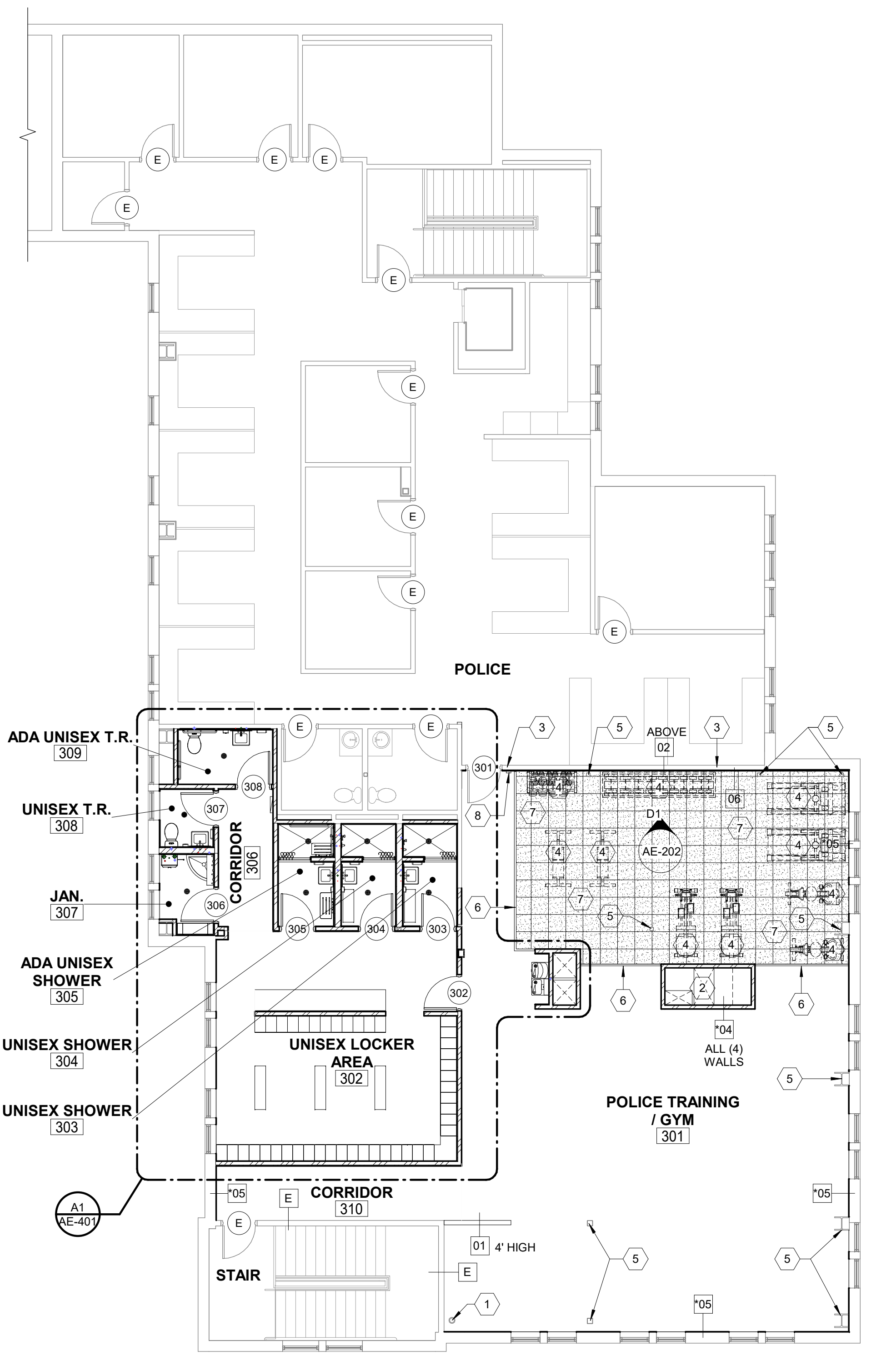
MARK	DESIGNATION	DESCRIPTION	SOUND RATING	FIRE RATING	WIDTH
01		3 5/8" 20 ga. g.i. metal studs at 16" o.c. with 5/8" type "X" gyp. bd. each side	None	None	4 7/8"
02		3 5/8" 20 ga. g.i. metal studs at 16" o.c. with 1/2" resilient clip one side and 5/8" gyp. bd. both sides. Provide 3" sound attenuation blankets between studs	Yes	None	5 3/8"
03		6" 20 ga. g.i. metal studs at 16" o.c. with 1/2" resilient clip one side and 5/8" gyp. bd. both sides. Provide 3" sound attenuation blankets between studs	Yes	None	7 3/4"
04		5/8" type "X" gyp. bd. on 3 5/8" 20 ga. g.i. metal studs at 16" o.c.	None	None	4 1/4"
05		5/8" type "X" gyp. bd. on extg. exterior metal stud wall system	None	None	5/8"
06		5/8" type "X" gyp. bd. on 1/2" resilient clip one side on extg. interior metal stud wall system - Provide 3" sound attenuation blankets between extg. studs, run system to deck above	Yes	None	1 1/8"

**IMPORTANT WALL TYPE NOTES**  
 (COORDINATE AS REQUIRED)

- THE WALL TYPES LEGEND DESCRIBES THE "CORE" WALL TYPE / MATERIALS / WIDTHS ONLY - UNLESS NOTED OTHERWISE, FINISHES SUCH AS PAINT, CERAMIC TILE (THICK & THIN SET), SEALERS ETC. ARE NOT INCLUDED IN THE WALL TYPE DESCRIPTION AND ARE INDICATED IN THE FINISH SCHEDULE - COORDINATE AS REQUIRED.
- ALL NON-STRUCTURAL AND NON-SOUND RATED INTERIOR PARTITIONS AND FURRED WALLS ARE TO (UNLESS NOTED OTHERWISE) RUN TO 6" MIN. ABOVE THE CEILING AND BE BRACED TO THE STRUCTURE AT 4'-0" O.C. - REFER TO DETAIL D4/AE-501.
- ALL SOUND / FIRE RATED WALLS ARE TO BE RUN UP TO THE DECK / STRUCTURE ABOVE WITH A SLIP JOINT AT HEAD OF WALL AND HAVE ALL GAPS SEALED WITH AN ACOUSTICAL / FIRE RATED SEALANT - REFER TO DETAIL C3/AE-502.
- CAREFULLY COORDINATE ALL WALL TYPES WITH THE BUILDING / WALL SECTIONS AS WELL AS ALL REFERENCED ENLARGED DETAILS FOR FURTHER AND MORE DETAILED INFORMATION
- NOTE THAT ALL PARTITIONS / WALLS IN ROOMS WHERE NO CEILINGS OCCUR, ARE TO BE RUN UP TO THE DECK / STRUCTURE ABOVE AND BE FULLY FINISHED WHERE WALL SURFACES ARE VISIBLE - ALSO NOTE THAT WALL TYPE SYMBOLS (ON PLAN) THAT HAVE AN \* ASTERISK NEAR THEM ARE WALLS THAT ARE REQUIRED TO HAVE THE WALL CONSTRUCTION RUN FULL HEIGHT, TO THE DECK ABOVE - COORDINATE AS REQUIRED.




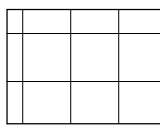
**A5 KEY PLAN**  
 1" = 40'-0"





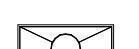

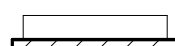



**A1 UPPER LEVEL FLOOR PLAN**  
 1/8" = 1'-0"



### CEILING TYPE LEGEND

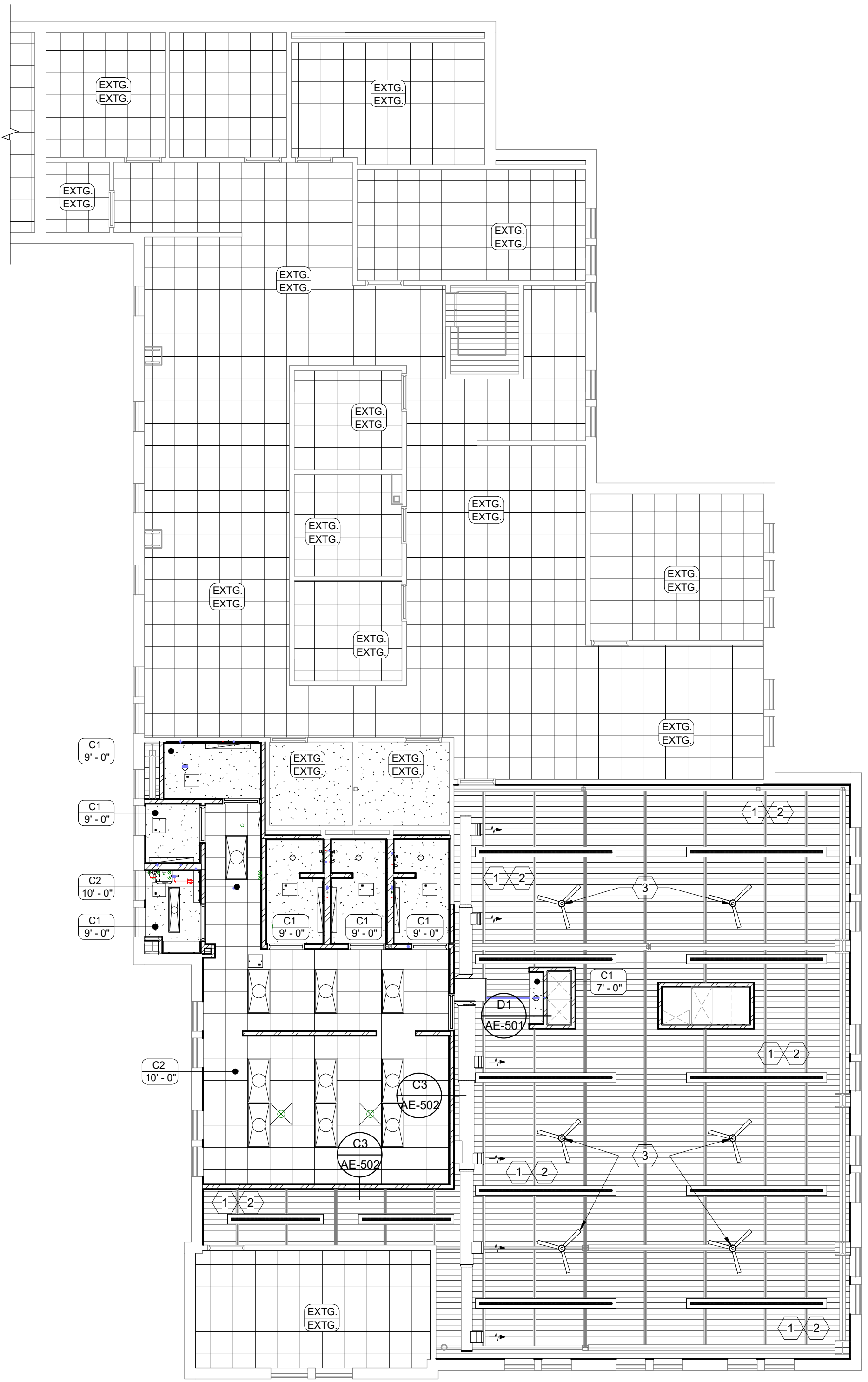
TYPE HEIGHT	C1 SEE PLAN		5/8" TYPE "X" GYP. ON SUSPENSION SYSTEM - SEE SPEC. - PAINT (WHERE OCCURS - SEE FINISH SCHEDULE)
TYPE HEIGHT	C2 SEE PLAN		2'x4' WITH "2'x2" LOOK" SUSPENDED ACOUSTICAL LAY-IN PANEL CEILING SYSTEM (REGULAR EDGED) - SEE SPEC. - SEE AE-501 FOR GENERAL CEILING DETAILS

### CEILING LEGEND

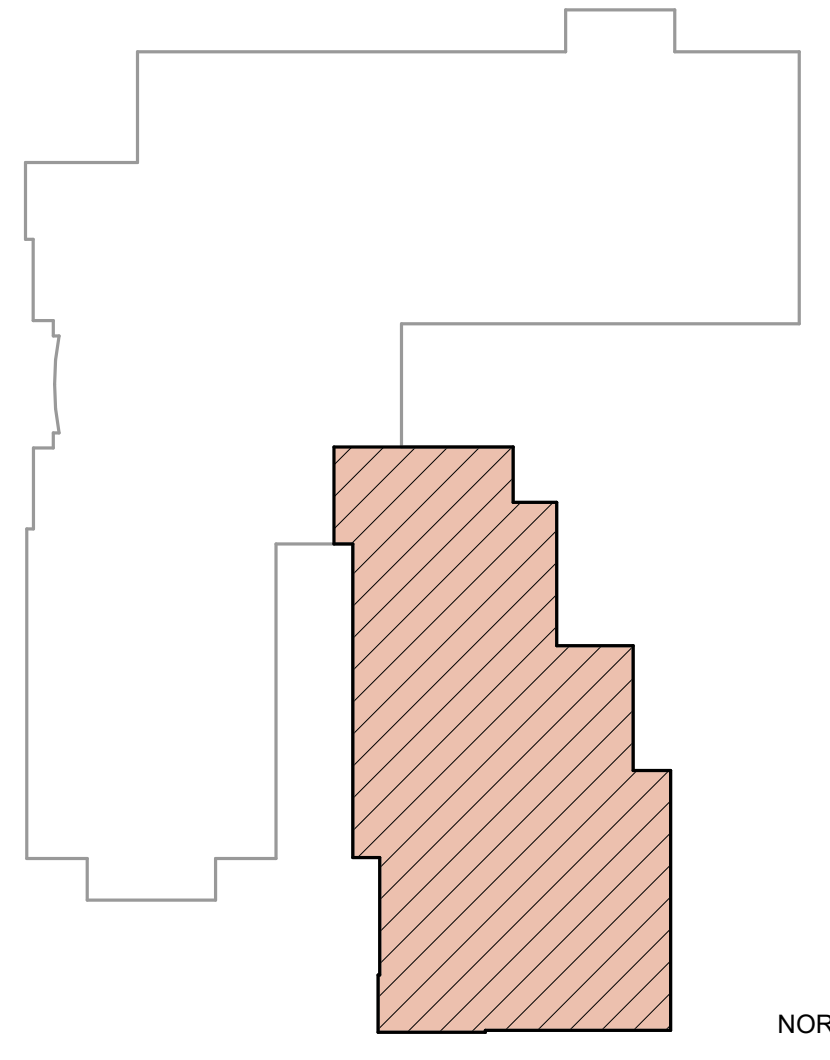
	RECESSED CAN LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	SUSPENDED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	2'x4 TROFFER LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	1'x4 SURFACE MOUNT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	WALL MOUNTED INDIRECT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	RETURN AIR DIFFUSER - SEE MECHANICAL DRAWINGS
	SUPPLY AIR DIFFUSER - SEE MECHANICAL DRAWINGS
	EXHAUST FAN - SEE MECHANICAL DRAWINGS

### KEYED NOTES

- OPEN TO STRUCTURE - PAINT ALL EXPOSED STEEL & METAL DECKING - SEE SPEC.
- PAINT ALL NEW & EXTG. EXPOSED DUCTS, CONDUITS ETC. AS REQUIRED - SEE ELECTRICAL & MECHANICAL DRAWINGS - SEE SPEC.
- ALTERNATE:** PROVIDE & INSTALL CEILING FAN - REFER TO ELECTRICAL DRAWINGS & SPEC.



**A1** UPPER LEVEL - REFLECTED CEILING PLAN  
1/8" = 1'-0"




**A5** KEY PLAN  
1" = 40'-0"

ARCHITECT'S INFORMATION



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PROFESSIONAL STAMP



CODE OFFICIAL STAMP

PROJECT NAME

**2019 DRAPER CITY HALL  
UPPER LEVEL REMODEL**

1020 PIONEER ROAD  
DRAPER, UTAH 84020

REVISIONS:

NO.	DATE	DESCRIPTION
01	06/21/19	CONSTRUCTION BID SET

ISSUED:

NO.	DATE	DESCRIPTION
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OWNER PROJECT #:

SPE PROJECT #: 18-38

DRAWN BY: JBE

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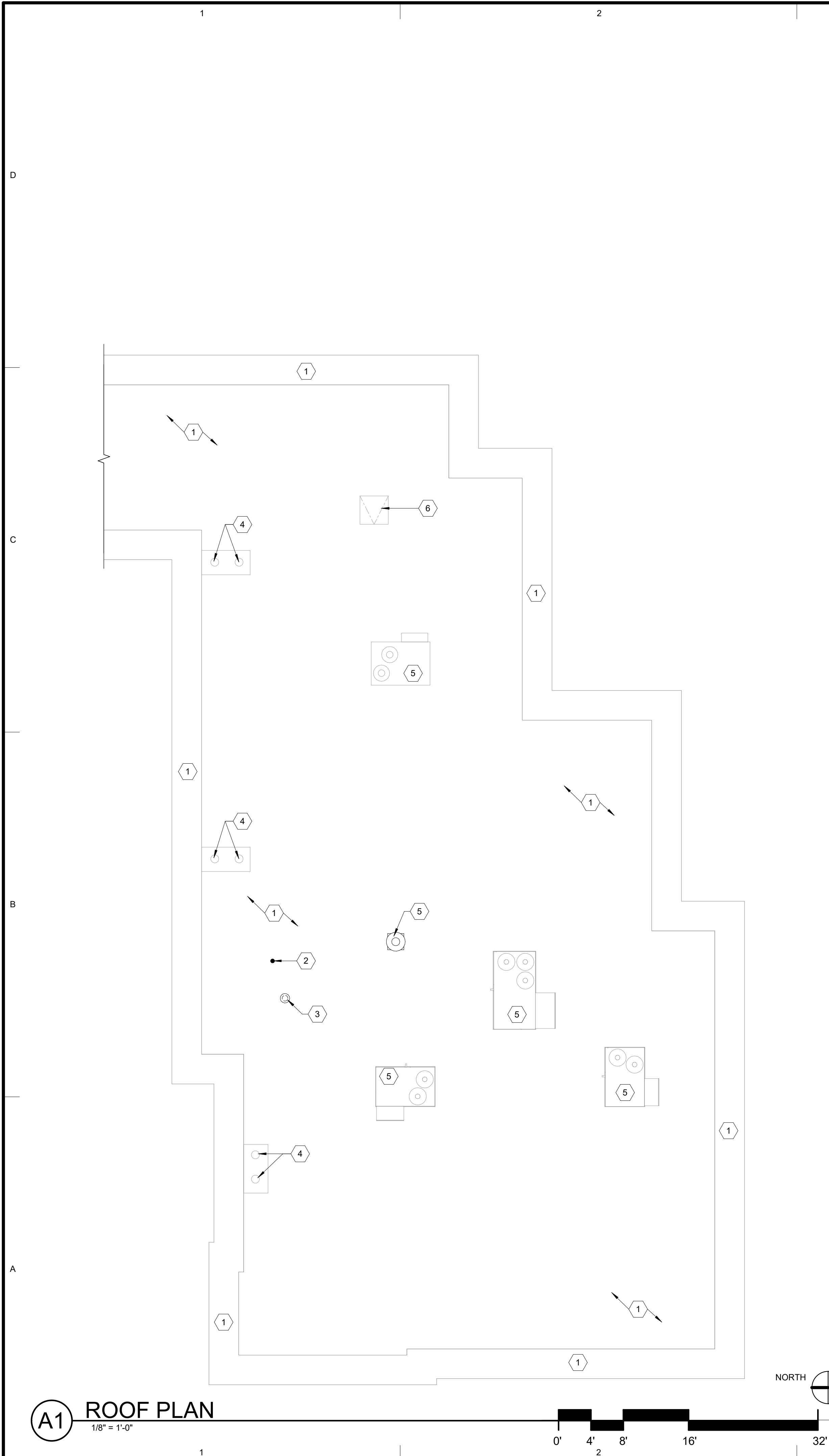
**REFLECTED  
CEILING PLAN**

SHEET NUMBER

**AE-102**

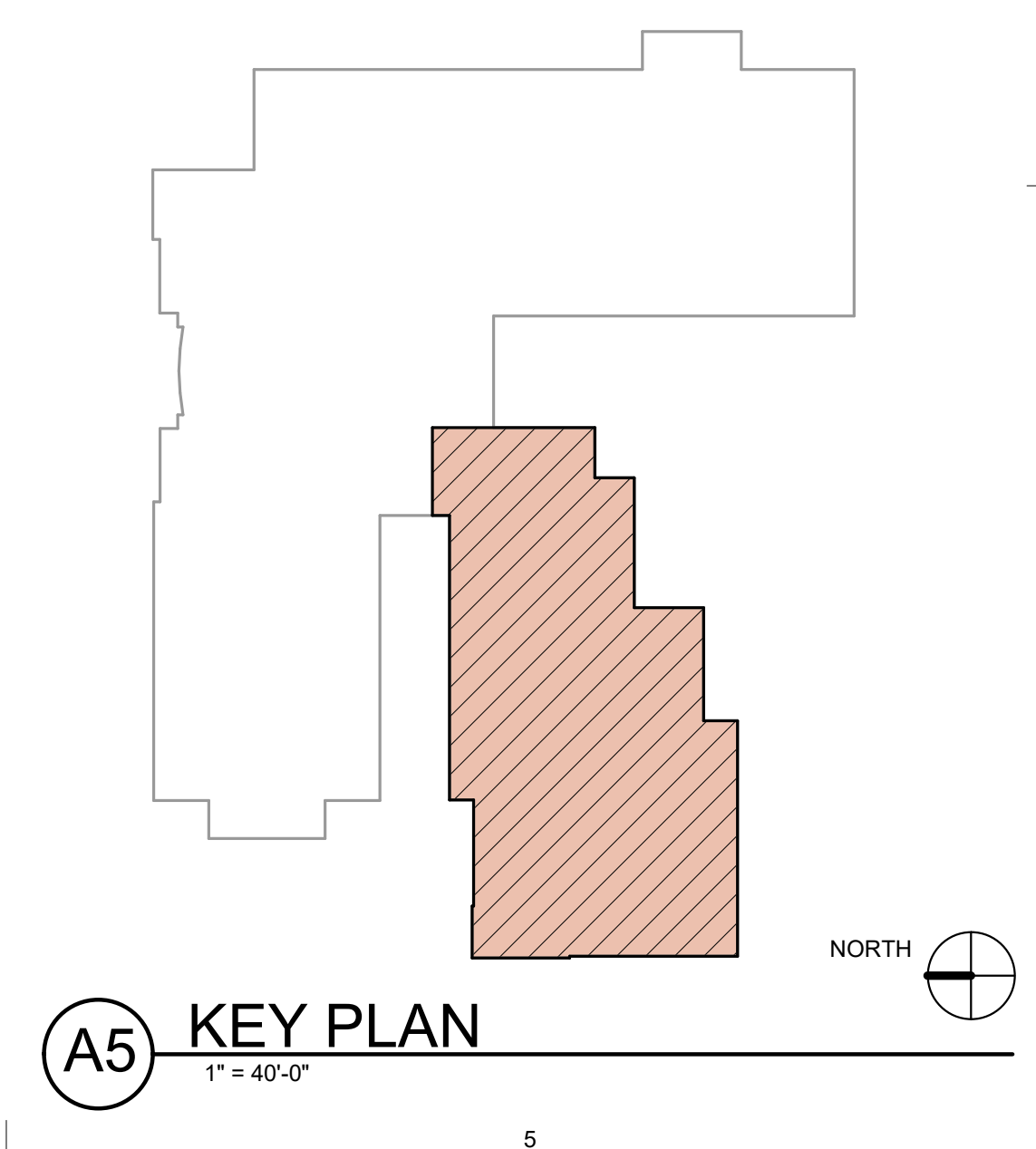
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**A1** ROOF PLAN  
1/8" = 1'-0"

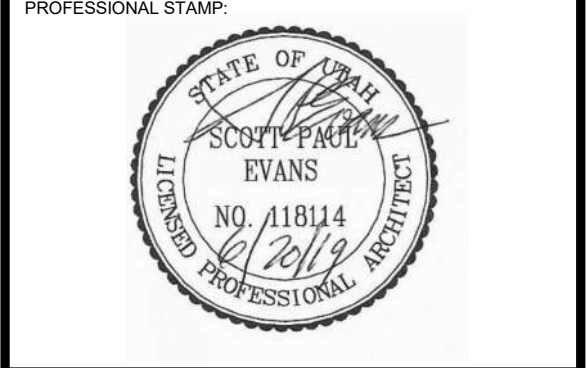
- # KEYED NOTES**
- EXTG. EPDM SINGLE PLY ROOFING SYSTEM TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION - MODIFY / PATCH & REPAIR WITH MATCHING MATERIALS AS REQUIRED TO PERFORM NEW WORK - SEE SPEC.
  - NEW PLUMBING VENT / FLUE / CONDUIT - FLASH PER DETAIL B4/AE-502 - REFER TO MECHANICAL DRAWINGS - SEE SPEC.
  - NEW THROUGH ROOF EXHAUST PIPE - REFER TO DETAIL B4/AE-502 - REFER TO MECHANICAL DRAWINGS - SEE SPEC.
  - EXTG. ROOF DRAINS TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
  - EXTG. ROOF TOP UNITS TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
  - EXTG. ROOF HATCH TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.



**A5** KEY PLAN  
1" = 40'-0"

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DRAPER, UTAH 84020

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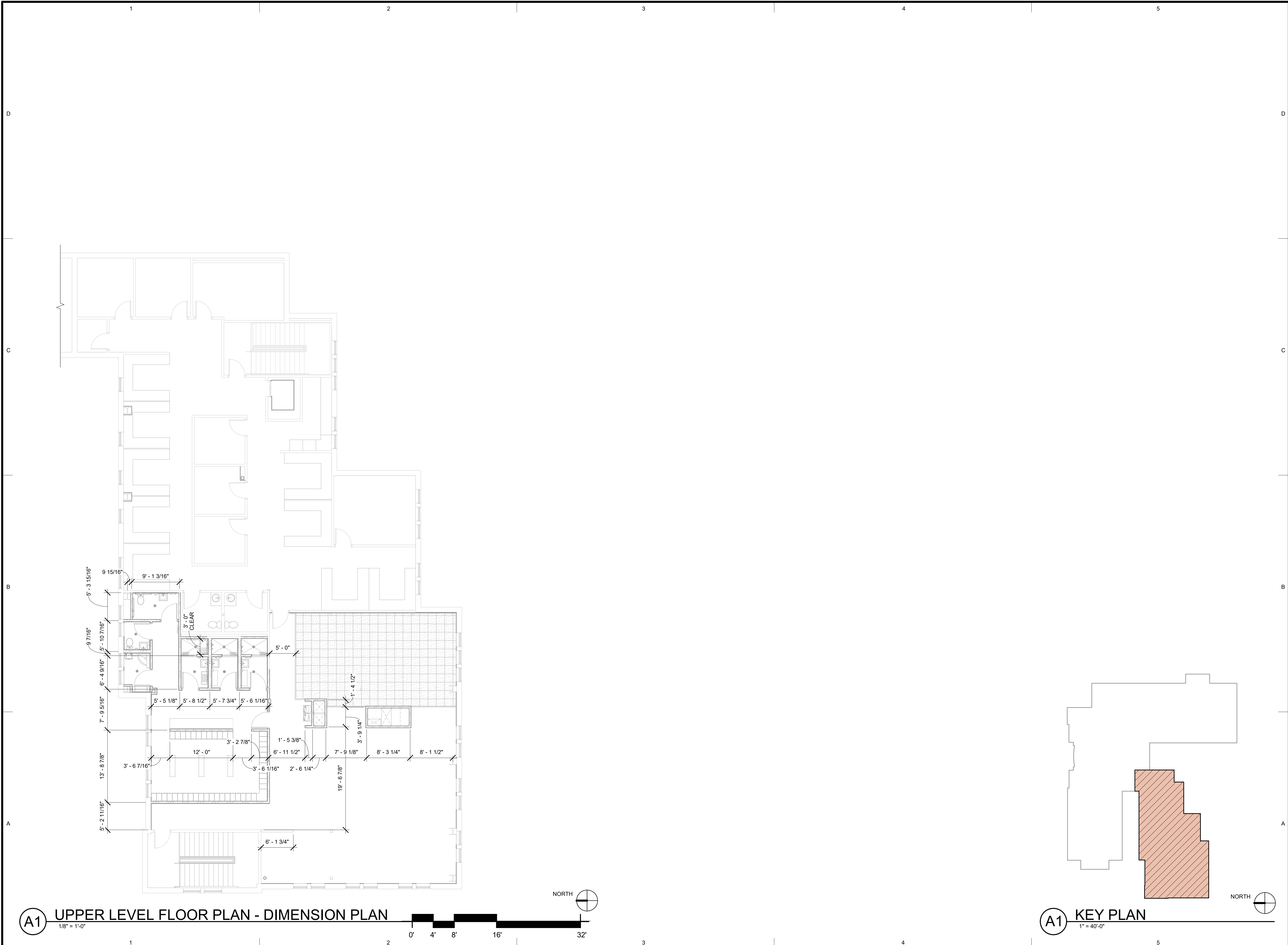
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SHEET TITLE:  
**ROOF PLAN**

SHEET NUMBER:  
**AE-103**

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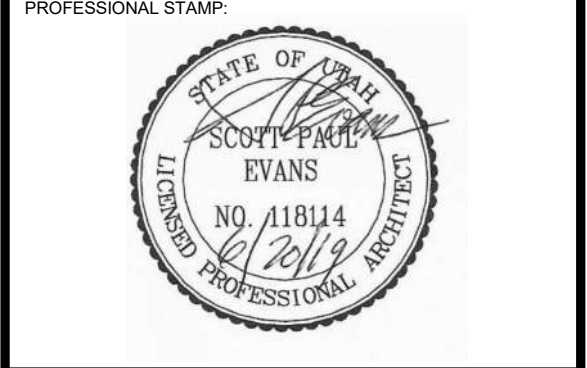


**A1** UPPER LEVEL FLOOR PLAN - DIMENSION PLAN  
1/8" = 1'-0"

**A1** KEY PLAN  
1" = 40'-0"



ARCHITECT'S INFORMATION:  
  
**ARCHITECT**  
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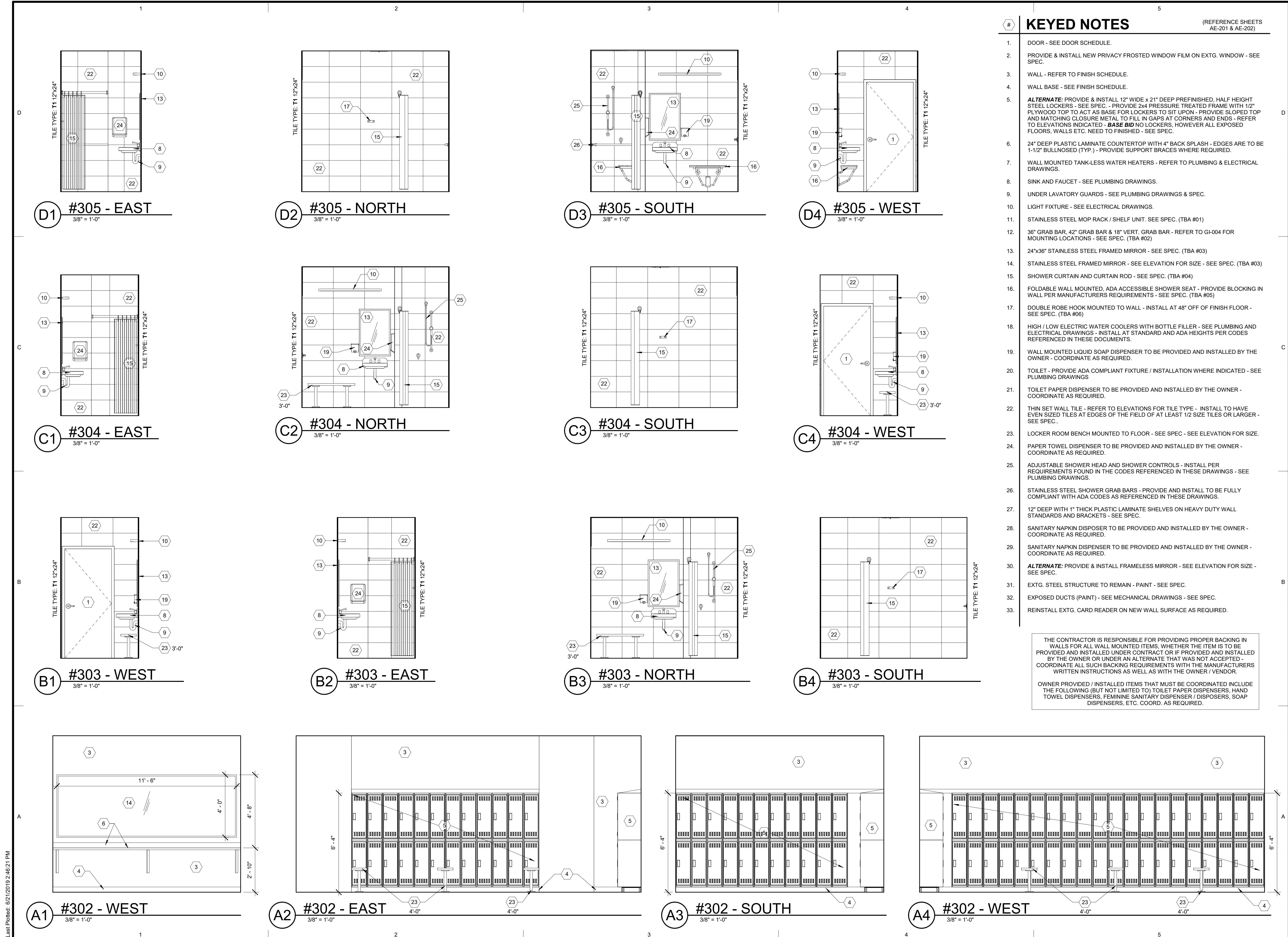
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 SHEET TITLE:  
**DIMENSION PLAN**

SHEET NUMBER:  
**AE-104**

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### KEYED NOTES

- (REFERENCE SHEETS AE-201 & AE-202)
- DOOR - SEE DOOR SCHEDULE.
  - PROVIDE & INSTALL NEW PRIVACY FROSTED WINDOW FILM ON EXTG. WINDOW - SEE SPEC.
  - WALL - REFER TO FINISH SCHEDULE.
  - WALL BASE - SEE FINISH SCHEDULE.
  - ALTERNATE:** PROVIDE & INSTALL 12" WIDE x 21" DEEP PREFINISHED, HALF HEIGHT STEEL LOCKERS - SEE SPEC. - PROVIDE 2x4 PRESSURE TREATED FRAME WITH 1/2" PLYWOOD TOP TO ACT AS BASE FOR LOCKERS TO SIT UPON - PROVIDE SLOPED TOP AND MATCHING CLOSURE METAL TO FILL IN GAPS AT CORNERS AND ENDS - REFER TO ELEVATIONS INDICATED - **BASE BID** NO LOCKERS, HOWEVER ALL EXPOSED FLOORS, WALLS ETC. NEED TO FINISHED - SEE SPEC.
  - 24" DEEP PLASTIC LAMINATE COUNTERTOP WITH 4" BACK SPLASH - EDGES ARE TO BE 1-1/2" BULLNOSED (TYP.) - PROVIDE SUPPORT BRACES WHERE REQUIRED.
  - WALL MOUNTED TANK-LESS WATER HEATERS - REFER TO PLUMBING & ELECTRICAL DRAWINGS.
  - SINK AND FAUCET - SEE PLUMBING DRAWINGS.
  - UNDER LAVATORY GUARDS - SEE PLUMBING DRAWINGS & SPEC.
  - LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
  - STAINLESS STEEL MOP RACK / SHELF UNIT. SEE SPEC. (TBA #01)
  - 36" GRAB BAR, 42" GRAB BAR & 18" VERT. GRAB BAR - REFER TO GI-004 FOR MOUNTING LOCATIONS - SEE SPEC. (TBA #02)
  - 24"x36" STAINLESS STEEL FRAMED MIRROR - SEE SPEC. (TBA #03)
  - STAINLESS STEEL FRAMED MIRROR - SEE ELEVATION FOR SIZE - SEE SPEC. (TBA #03)
  - SHOWER CURTAIN AND CURTAIN ROD - SEE SPEC. (TBA #04)
  - FOLDABLE WALL MOUNTED, ADA ACCESSIBLE SHOWER SEAT - PROVIDE BLOCKING IN WALL PER MANUFACTURERS REQUIREMENTS - SEE SPEC. (TBA #05)
  - DOUBLE ROBE HOOK MOUNTED TO WALL - INSTALL AT 48" OFF OF FINISH FLOOR - SEE SPEC. (TBA #06)
  - HIGH / LOW ELECTRIC WATER COOLERS WITH BOTTLE FILLER - SEE PLUMBING AND ELECTRICAL DRAWINGS - INSTALL AT STANDARD AND ADA HEIGHTS PER CODES REFERENCED IN THESE DOCUMENTS.
  - WALL MOUNTED LIQUID SOAP DISPENSER TO BE PROVIDED AND INSTALLED BY THE OWNER - COORDINATE AS REQUIRED.
  - TOILET - PROVIDE ADA COMPLIANT FIXTURE / INSTALLATION WHERE INDICATED - SEE PLUMBING DRAWINGS
  - TOILET PAPER DISPENSER TO BE PROVIDED AND INSTALLED BY THE OWNER - COORDINATE AS REQUIRED.
  - THIN SET WALL TILE - REFER TO ELEVATIONS FOR TILE TYPE - INSTALL TO HAVE EVEN SIZED TILES AT EDGES OF THE FIELD OF AT LEAST 1/2 SIZE TILES OR LARGER - SEE SPEC.
  - LOCKER ROOM BENCH MOUNTED TO FLOOR - SEE SPEC - SEE ELEVATION FOR SIZE.
  - PAPER TOWEL DISPENSER TO BE PROVIDED AND INSTALLED BY THE OWNER - COORDINATE AS REQUIRED.
  - ADJUSTABLE SHOWER HEAD AND SHOWER CONTROLS - INSTALL PER REQUIREMENTS FOUND IN THE CODES REFERENCED IN THESE DRAWINGS - SEE PLUMBING DRAWINGS.
  - STAINLESS STEEL SHOWER GRAB BARS - PROVIDE AND INSTALL TO BE FULLY COMPLIANT WITH ADA CODES AS REFERENCED IN THESE DRAWINGS.
  - 12" DEEP WITH 1" THICK PLASTIC LAMINATE SHELVES ON HEAVY DUTY WALL STANDARDS AND BRACKETS - SEE SPEC.
  - SANITARY NAPKIN DISPOSER TO BE PROVIDED AND INSTALLED BY THE OWNER - COORDINATE AS REQUIRED.
  - SANITARY NAPKIN DISPENSER TO BE PROVIDED AND INSTALLED BY THE OWNER - COORDINATE AS REQUIRED.
  - ALTERNATE:** PROVIDE & INSTALL FRAMELESS MIRROR - SEE ELEVATION FOR SIZE - SEE SPEC.
  - EXTG. STEEL STRUCTURE TO REMAIN - PAINT - SEE SPEC.
  - EXPOSED DUCTS (PAINT) - SEE MECHANICAL DRAWINGS - SEE SPEC.
  - REINSTALL EXTG. CARD READER ON NEW WALL SURFACE AS REQUIRED.

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PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME

**2019 DRAPER CITY HALL UPPER LEVEL REMODEL**

1020 PIONEER ROAD  
 DRAPER, UTAH 84020

ISSUED:

NO.	DATE	DESCRIPTION
01	06/21/19	CONSTRUCTION BID SET

OWNER PROJECT #:  
 SPE PROJECT #: 19-38  
 DRAWN BY: JBE  
 CHECKED BY: SPE  
 DESIGNED BY: SPE

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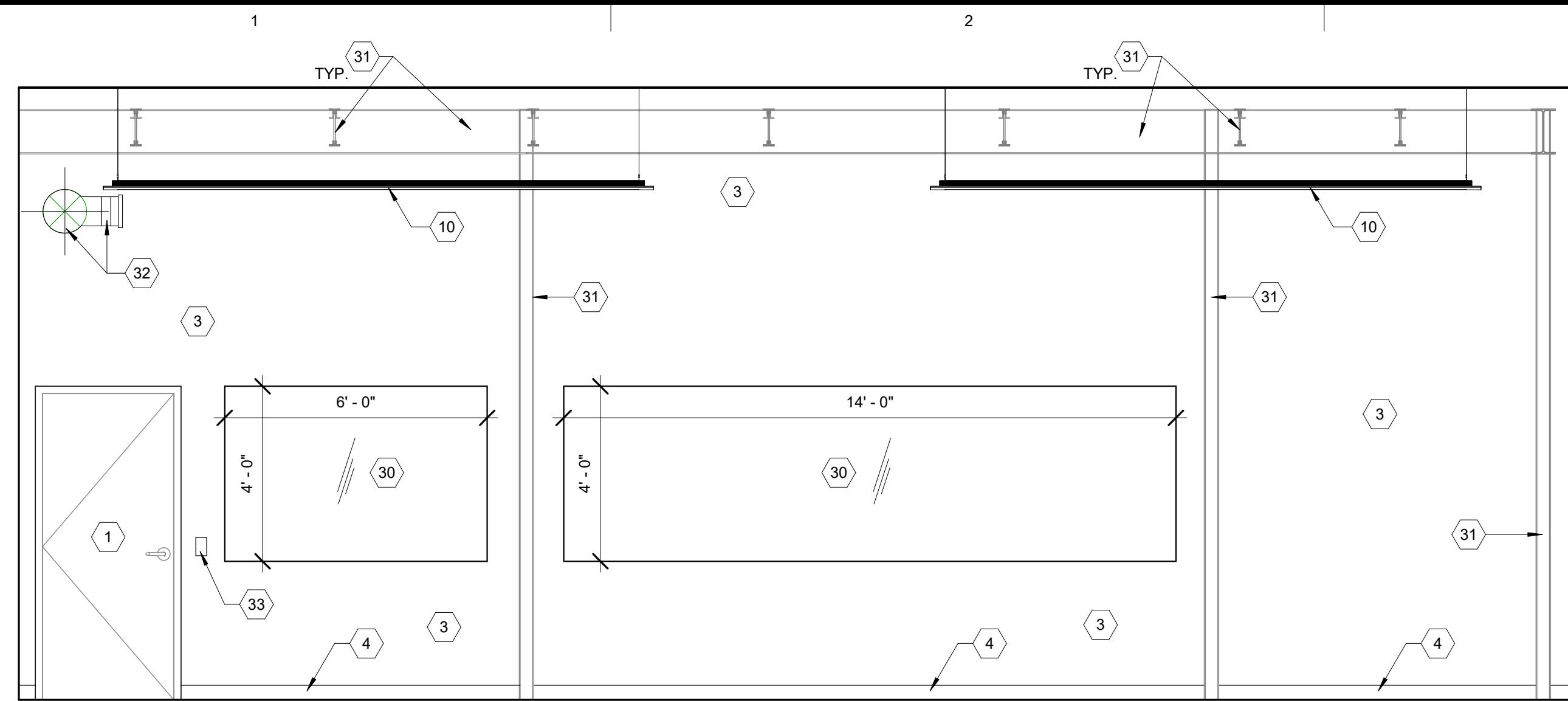
SHEET TITLE

**INTERIOR ELEVATIONS**

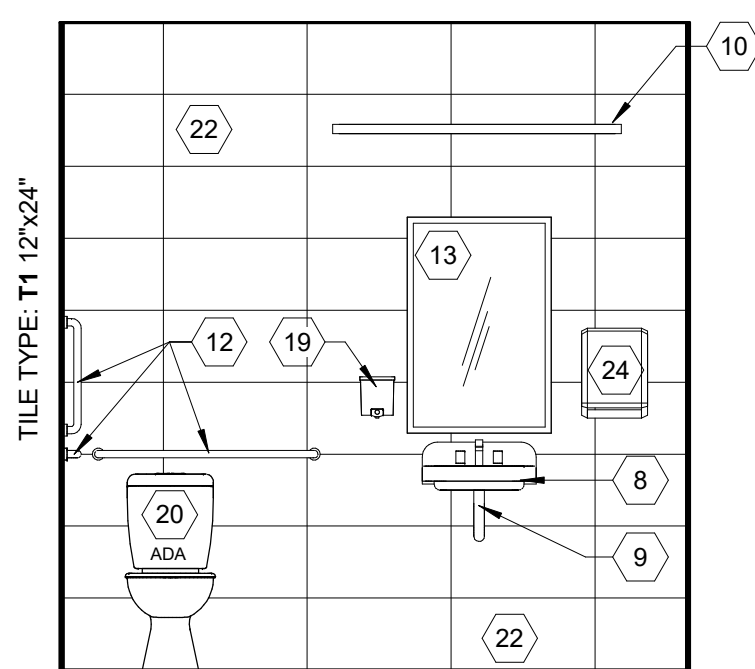
SHEET NUMBER

**AE-201**

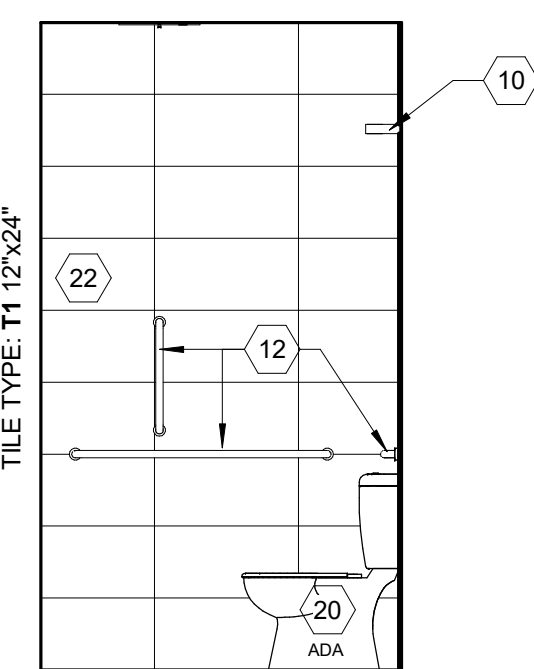




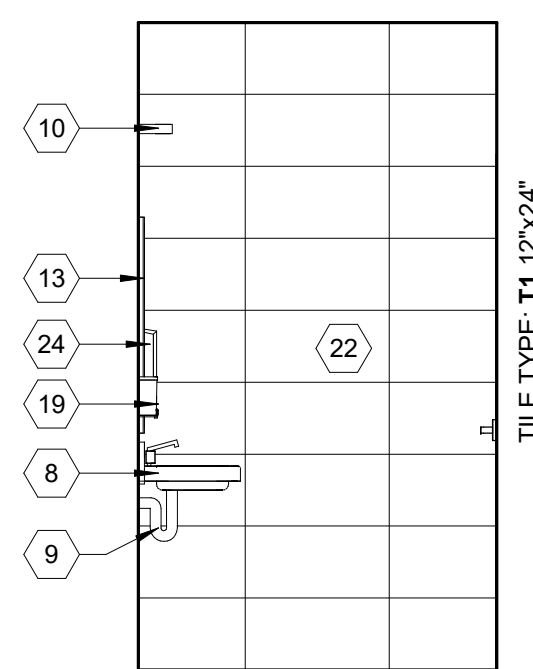
**D1 #301 - EAST**  
3/8" = 1'-0"



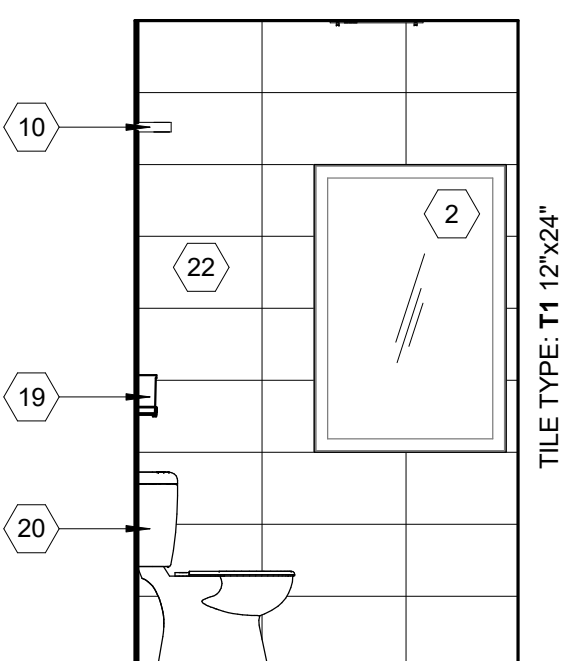
**C1 #309 - EAST**  
3/8" = 1'-0"



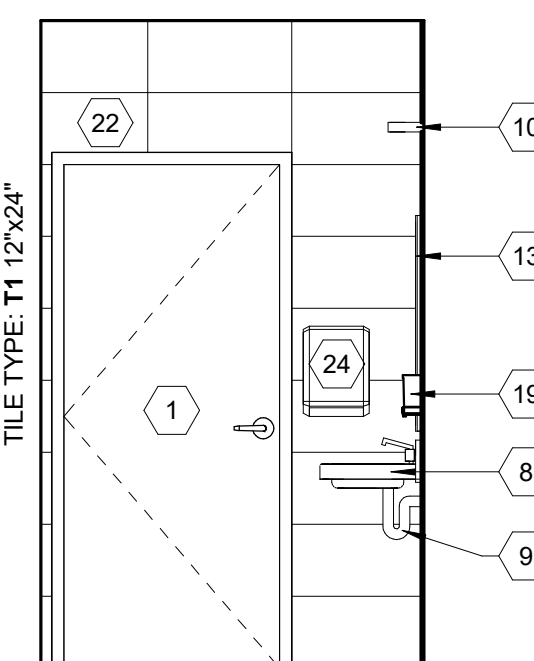
**C2 #309 - NORTH**  
3/8" = 1'-0"



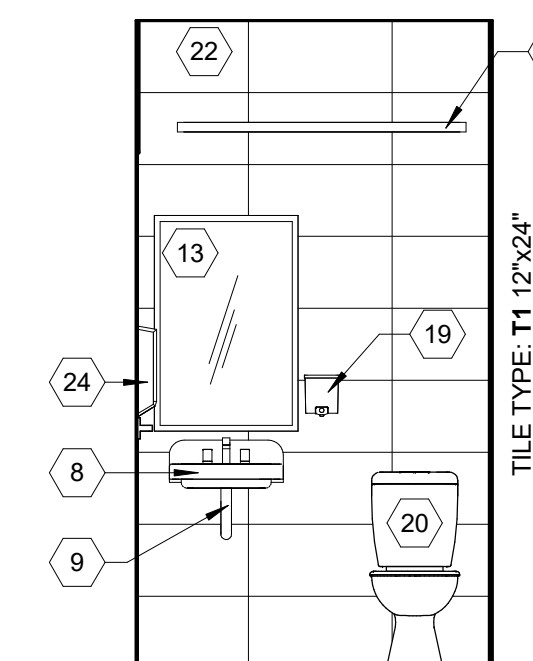
**C3 #309 - SOUTH**  
3/8" = 1'-0"



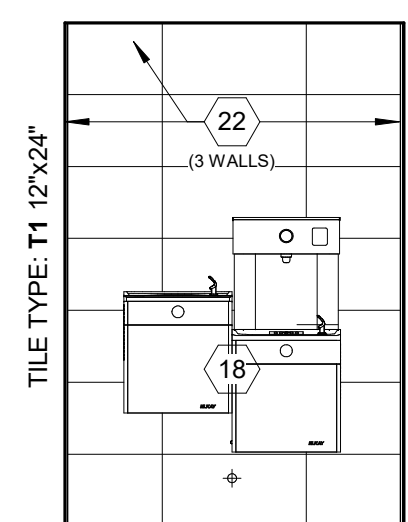
**B1 #308 - NORTH**  
3/8" = 1'-0"



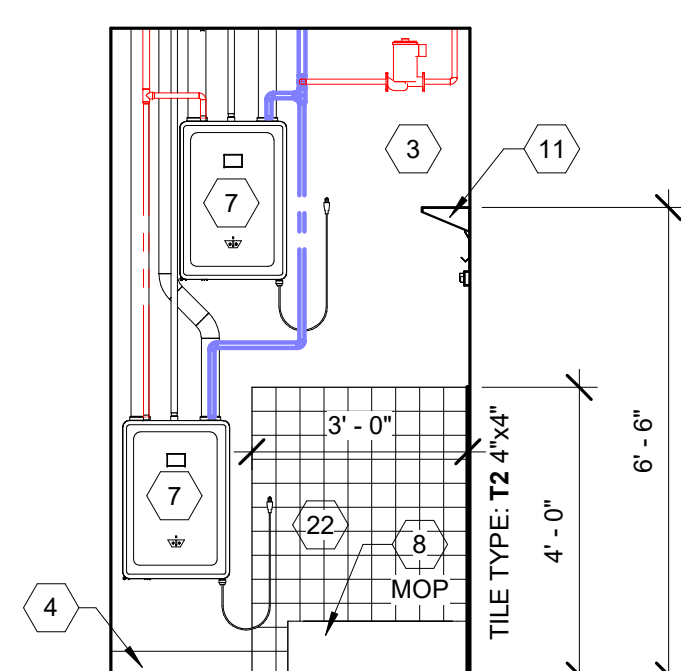
**B2 #308 - SOUTH**  
3/8" = 1'-0"



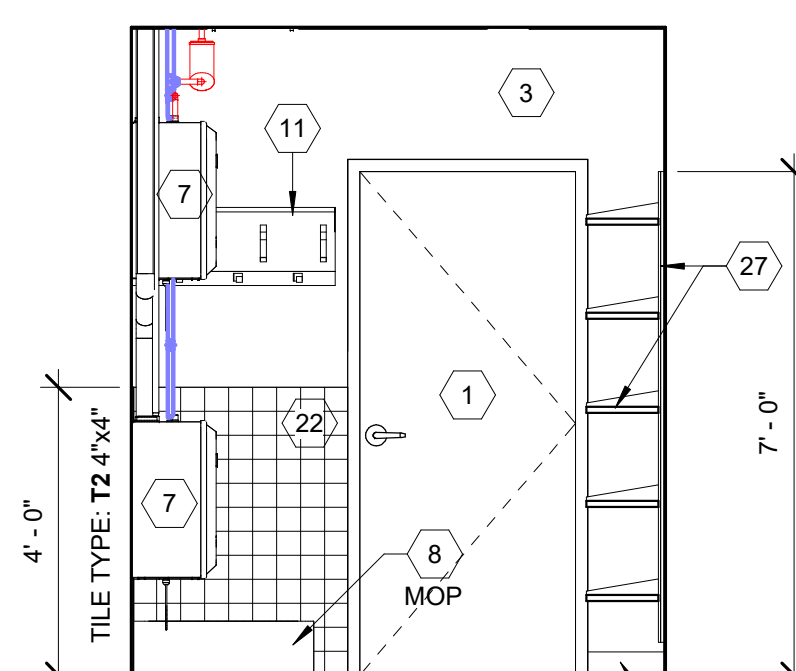
**B3 #308 - WEST**  
3/8" = 1'-0"



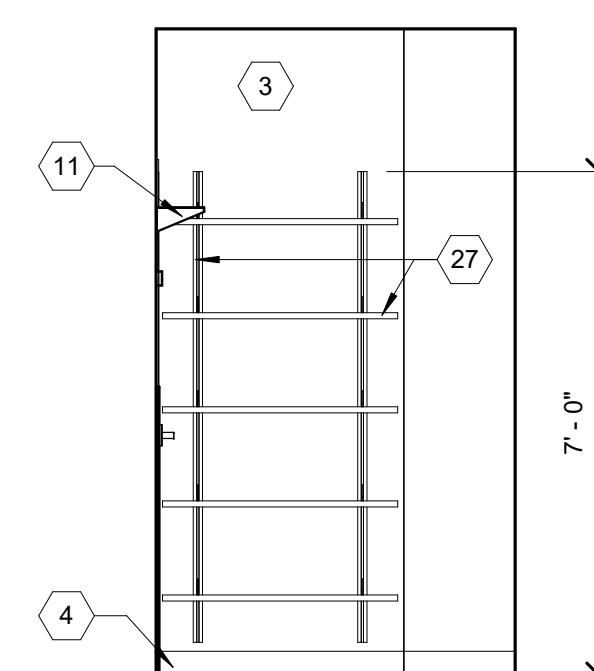
**A1 #301 - SOUTH**  
3/8" = 1'-0"



**A2 #307 - EAST**  
3/8" = 1'-0"



**A3 #307 - SOUTH**  
3/8" = 1'-0"



**A4 #307 - WEST**  
3/8" = 1'-0"

**KEYED NOTES**

(REFERENCE SHEETS AE-201 & AE-202)

1. DOOR - SEE DOOR SCHEDULE.
2. PROVIDE & INSTALL NEW PRIVACY FROSTED WINDOW FILM ON EXTG. WINDOW - SEE SPEC.
3. WALL - REFER TO FINISH SCHEDULE.
4. WALL BASE - SEE FINISH SCHEDULE.
5. **ALTERNATE:** PROVIDE & INSTALL 12" WIDE x 21" DEEP PREFINISHED, HALF HEIGHT STEEL LOCKERS - SEE SPEC. - PROVIDE 2x4 PRESSURE TREATED FRAME WITH 1/2" PLYWOOD TOP TO ACT AS BASE FOR LOCKERS TO SIT UPON. - PROVIDE SLOPED TOP AND MATCHING CLOSURE METAL TO FILL IN GAPS AT CORNERS AND ENDS - REFER TO ELEVATIONS INDICATED - **BASE BID** NO LOCKERS, HOWEVER ALL EXPOSED FLOORS, WALLS ETC. NEED TO FINISHED - SEE SPEC.
6. 24" DEEP PLASTIC LAMINATE COUNTERTOP WITH 4" BACK SPLASH - EDGES ARE TO BE 1-1/2" BULLNOSE (TYP.) - PROVIDE SUPPORT BRACES WHERE REQUIRED.
7. WALL MOUNTED TANK-LESS WATER HEATERS - REFER TO PLUMBING & ELECTRICAL DRAWINGS.
8. SINK AND FAUCET - SEE PLUMBING DRAWINGS.
9. UNDER LAVATORY GUARDS - SEE PLUMBING DRAWINGS & SPEC.
10. LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
11. STAINLESS STEEL MOP RACK / SHELF UNIT. SEE SPEC. (TBA #01)
12. 36" GRAB BAR, 42" GRAB BAR & 18" VERT. GRAB BAR - REFER TO G1-004 FOR MOUNTING LOCATIONS - SEE SPEC. (TBA #02)
13. 24"x36" STAINLESS STEEL FRAMED MIRROR - SEE SPEC. (TBA #03)
14. STAINLESS STEEL FRAMED MIRROR - SEE ELEVATION FOR SIZE - SEE SPEC. (TBA #03)
15. SHOWER CURTAIN AND CURTAIN ROD - SEE SPEC. (TBA #04)
16. FOLDABLE WALL MOUNTED, ADA ACCESSIBLE SHOWER SEAT - PROVIDE BLOCKING IN WALL PER MANUFACTURERS REQUIREMENTS - SEE SPEC. (TBA #05)
17. DOUBLE ROBE HOOK MOUNTED TO WALL - INSTALL AT 48" OFF OF FINISH FLOOR - SEE SPEC. (TBA #06)
18. HIGH / LOW ELECTRIC WATER COOLERS WITH BOTTLE FILLER - SEE PLUMBING AND ELECTRICAL DRAWINGS - INSTALL AT STANDARD AND ADA HEIGHTS PER CODES REFERENCED IN THESE DOCUMENTS.
19. WALL MOUNTED LIQUID SOAP DISPENSER TO BE PROVIDED AND INSTALLED BY THE OWNER - COORDINATE AS REQUIRED.
20. TOILET - PROVIDE ADA COMPLIANT FIXTURE / INSTALLATION WHERE INDICATED - SEE PLUMBING DRAWINGS
21. TOILET PAPER DISPENSER TO BE PROVIDED AND INSTALLED BY THE OWNER - COORDINATE AS REQUIRED.
22. THIN SET WALL TILE - REFER TO ELEVATIONS FOR TILE TYPE - INSTALL TO HAVE EVEN SIZED TILES AT EDGES OF THE FIELD OF AT LEAST 1/2 SIZE TILES OR LARGER - SEE SPEC..
23. LOCKER ROOM BENCH MOUNTED TO FLOOR - SEE SPEC - SEE ELEVATION FOR SIZE.
24. PAPER TOWEL DISPENSER TO BE PROVIDED AND INSTALLED BY THE OWNER - COORDINATE AS REQUIRED.
25. ADJUSTABLE SHOWER HEAD AND SHOWER CONTROLS - INSTALL PER REQUIREMENTS FOUND IN THE CODES REFERENCED IN THESE DRAWINGS - SEE PLUMBING DRAWINGS.
26. STAINLESS STEEL SHOWER GRAB BARS - PROVIDE AND INSTALL TO BE FULLY COMPLIANT WITH ADA CODES AS REFERENCED IN THESE DRAWINGS.
27. 12" DEEP WITH 1" THICK PLASTIC LAMINATE SHELVES ON HEAVY DUTY WALL STANDARDS AND BRACKETS - SEE SPEC.
28. SANITARY NAPKIN DISPOSER TO BE PROVIDED AND INSTALLED BY THE OWNER - COORDINATE AS REQUIRED.
29. SANITARY NAPKIN DISPENSER TO BE PROVIDED AND INSTALLED BY THE OWNER - COORDINATE AS REQUIRED.
30. **ALTERNATE:** PROVIDE & INSTALL FRAMELESS MIRROR - SEE ELEVATION FOR SIZE - SEE SPEC.
31. EXTG. STEEL STRUCTURE TO REMAIN - PAINT - SEE SPEC.
32. EXPOSED DUCTS (PAINT) - SEE MECHANICAL DRAWINGS - SEE SPEC.
33. REINSTALL EXTG. CARD READER ON NEW WALL SURFACE AS REQUIRED.

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1020 PIONEER ROAD  
DRAPER, UTAH 84020

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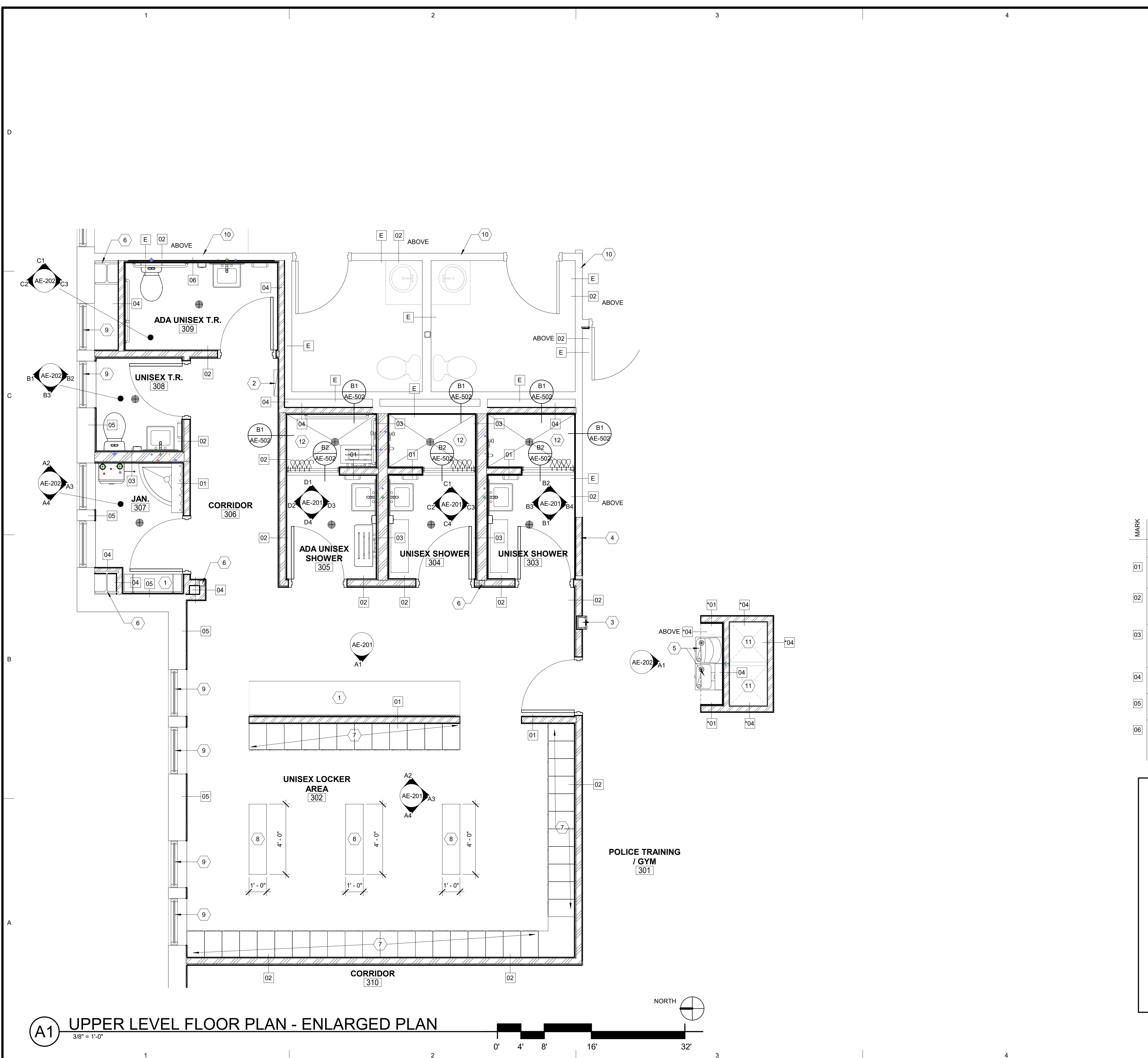
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SPE PROJECT #: 19-38  
DRAWN BY: JBE  
CHECKED BY: SPE  
DESIGNED BY: SPE

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SHEET TITLE  
**INTERIOR  
ELEVATIONS**

SHEET NUMBER  
**AE-202**





### KEYED NOTES

- MILLWORK - REFER TO ELEVATIONS INDICATED - SEE SPEC.
- RELOCATED ELECTRICAL PANEL - REFER TO ELECTRICAL DRAWINGS.
- SEMI-RECESSED FIRE EXTINGUISHER CABINET - INSTALL AT 5'-0" FROM FINISHED FLOOR TO THE TOP OF THE CABINET - SEE SPEC.
- IN-FILL WALL WITH MATCHING MATERIAL - REFER TO FINISH SCHEDULE.
- PROVIDE & INSTALL NEW HIGH / LOW ELECTRIC WATER COOLERS WITH BOTTLE FILLER - SEE PLUMBING AND ELECTRICAL DRAWINGS - INSTALL AT STANDARD AND ADA HEIGHTS PER CODES REFERENCED IN THESE DOCUMENTS - REFER TO ELEVATIONS INDICATED.
- EXTG. STEEL COLUMN TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION - SEE SPEC. - PAINT IF EXPOSED.
- ALTERNATE:** PROVIDE & INSTALL 12" WIDE x 21" DEEP PREFINISHED, HALF HEIGHT STEEL LOCKERS - SEE SPEC. - PROVIDE 2x4 PRESSURE TREATED FRAME WITH 1/2" PLYWOOD TOP TO ACT AS BASE FOR LOCKERS TO SIT UPON - PROVIDE SLOPED TOP AND MATCHING CLOSURE METAL TO FILL IN GAPS AT CORNERS AND ENDS - REFER TO ELEVATIONS INDICATED - **BASE BID** NO LOCKERS, HOWEVER ALL EXPOSED FLOORS, WALLS ETC. NEED TO FINISHED - SEE SPEC.
- PROVIDE & INSTALL NEW FLOOR MOUNTED BENCH - REFER TO ELEVATIONS INDICATED - SEE SPEC.
- PROVIDE & INSTALL NEW PRIVACY FROSTED WINDOW FILM ON THESE EXTG. WINDOWS - SEE SPEC.
- EXTEND EXTG. METAL STUD & GYP. BD. WALL TO DECK ABOVE - REFER TO WALL TYPE.
- EXTG. HVAC DUCTS TO REMAIN - REFER TO MECHANICAL DRAWINGS - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- PROVIDE & INSTALL NEW 1-1/2" RECESSED CONCRETE SLAB & THICK SET TILE FLOORING SYSTEM OVER WATER-PROOFING MEMBRANE - SLOPE TO NEW DRAIN - SEE SPEC. - REFER TO PLUMBING DRAWINGS - REFER TO DETAIL B1&B2/AE-502.

MARK	DESIGNATION	DESCRIPTION	SOUND RATING	FIRE RATING	WIDTH
01		3 5/8" 20 ga. g.i. metal studs at 16" o.c. with 5/8" type "X" gyp. bd. each side	None	None	4 7/8"
02		3 5/8" 20 ga. g.i. metal studs at 16" o.c. with 1/2" resilient clip one side and 5/8" gyp. bd. both sides. Provide 3" sound attenuation blankets between studs	Yes	None	5 3/8"
03		6" 20 ga. g.i. metal studs at 16" o.c. with 1/2" resilient clip one side and 5/8" gyp. bd. both sides. Provide 3" sound attenuation blankets between studs	Yes	None	7 3/4"
04		5/8" type "X" gyp. bd. on 3 5/8" 20 ga. g.i. metal studs at 16" o.c.	None	None	4 1/4"
05		5/8" type "X" gyp. bd. on extg. exterior metal stud wall system	None	None	5/8"
06		5/8" type "X" gyp. bd. on 1/2" resilient clip one side on extg. interior metal stud wall system - Provide 3" sound attenuation blankets between extg. studs, run system to deck above	Yes	None	1 1/8"

### IMPORTANT WALL TYPE NOTES (COORDINATE AS REQUIRED)

- THE WALL TYPES LEGEND DESCRIBES THE "CORE" WALL TYPE / MATERIALS / WIDTHS ONLY - UNLESS NOTED OTHERWISE, FINISHES SUCH AS PAINT, CERAMIC TILE (THICK & THIN SET), SEALERS ETC. ARE NOT INCLUDED IN THE WALL TYPE DESCRIPTION AND ARE INDICATED IN THE FINISH SCHEDULE - COORDINATE AS REQUIRED.
- ALL NON-STRUCTURAL AND NON-SOUND RATED INTERIOR PARTITIONS AND FURRED WALLS ARE TO (UNLESS NOTED OTHERWISE) RUN TO 6" MIN. ABOVE THE CEILING AND BE BRACED TO THE STRUCTURE AT 4'-0" O.C. - REFER TO DETAIL D4/AE-501.
- ALL SOUND / FIRE RATED WALLS ARE TO BE RUN UP TO THE DECK / STRUCTURE ABOVE WITH A SLIP JOINT AT HEAD OF WALL AND HAVE ALL GAPS SEALED WITH AN ACOUSTICAL / FIRE RATED SEALANT - REFER TO DETAIL C3/AE-502.
- CAREFULLY COORDINATE ALL WALL TYPES WITH THE BUILDING / WALL SECTIONS AS WELL AS ALL REFERENCED ENLARGED DETAILS FOR FURTHER AND MORE DETAILED INFORMATION
- NOTE THAT ALL PARTITIONS / WALLS IN ROOMS WHERE NO CEILINGS OCCUR, ARE TO BE RUN UP TO THE DECK / STRUCTURE ABOVE AND BE FULLY FINISHED WHERE WALL SURFACES ARE VISIBLE - ALSO NOTE THAT WALL TYPE SYMBOLS (ON PLAN) THAT HAVE AN \* AROUND THEM ARE WALLS THAT ARE REQUIRED TO HAVE THE WALL CONSTRUCTION RUN FULL HEIGHT, TO THE DECK ABOVE - COORDINATE AS REQUIRED.

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SHEET TITLE

**ENLARGED PLANS**

SHEET NUMBER

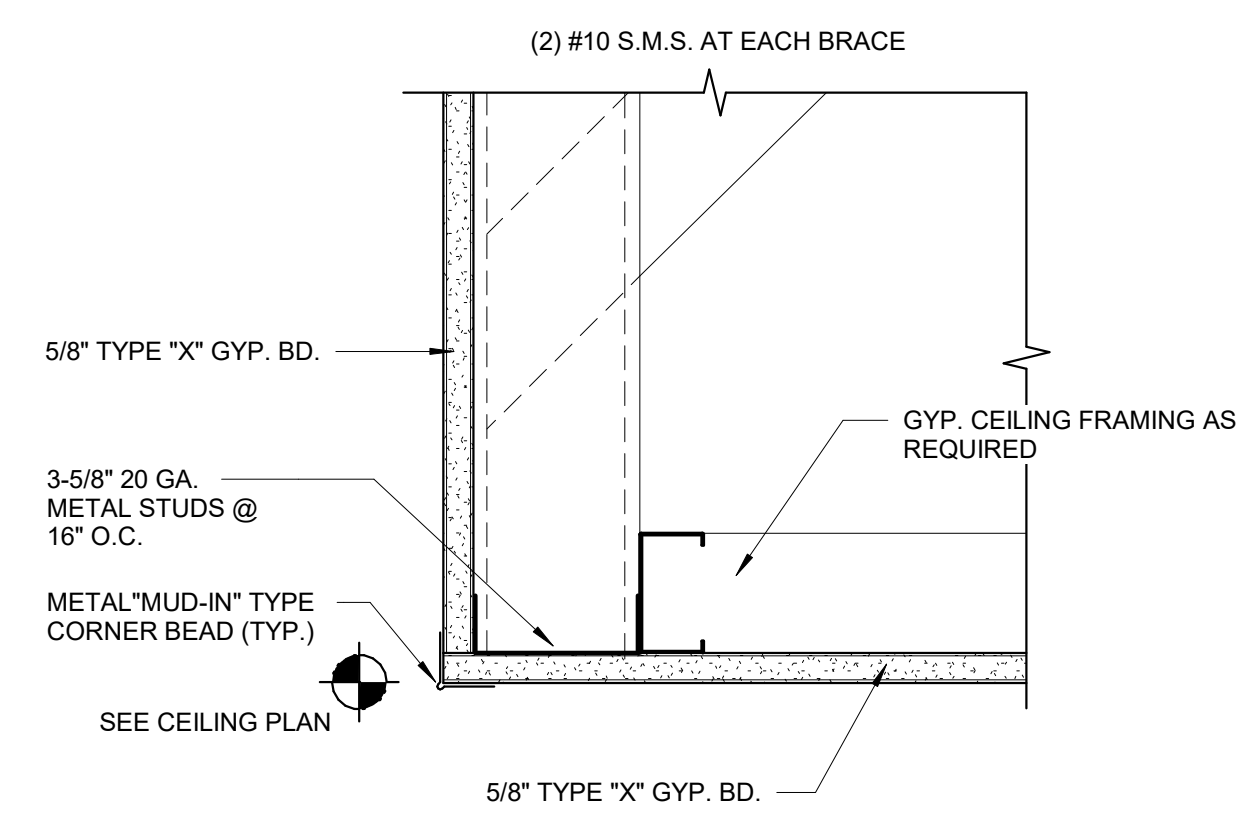
**AE-401**

**A1 UPPER LEVEL FLOOR PLAN - ENLARGED PLAN**  
3/8" = 1'-0"

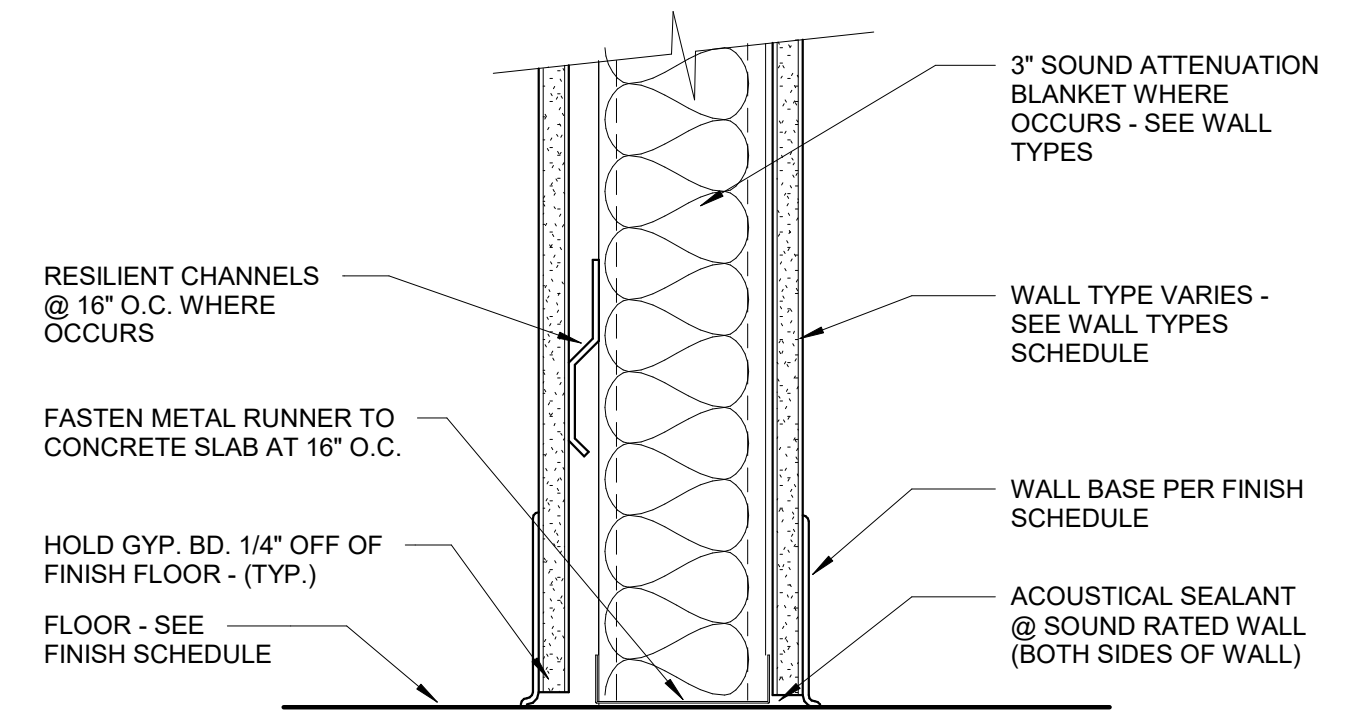


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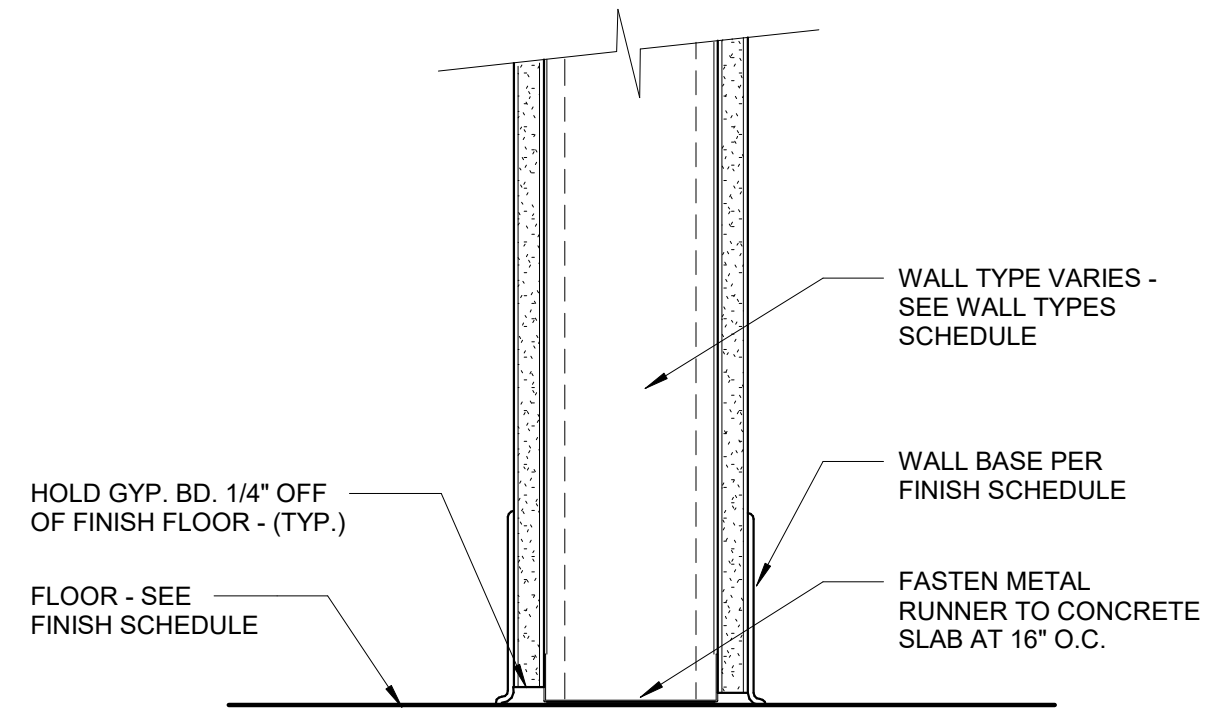




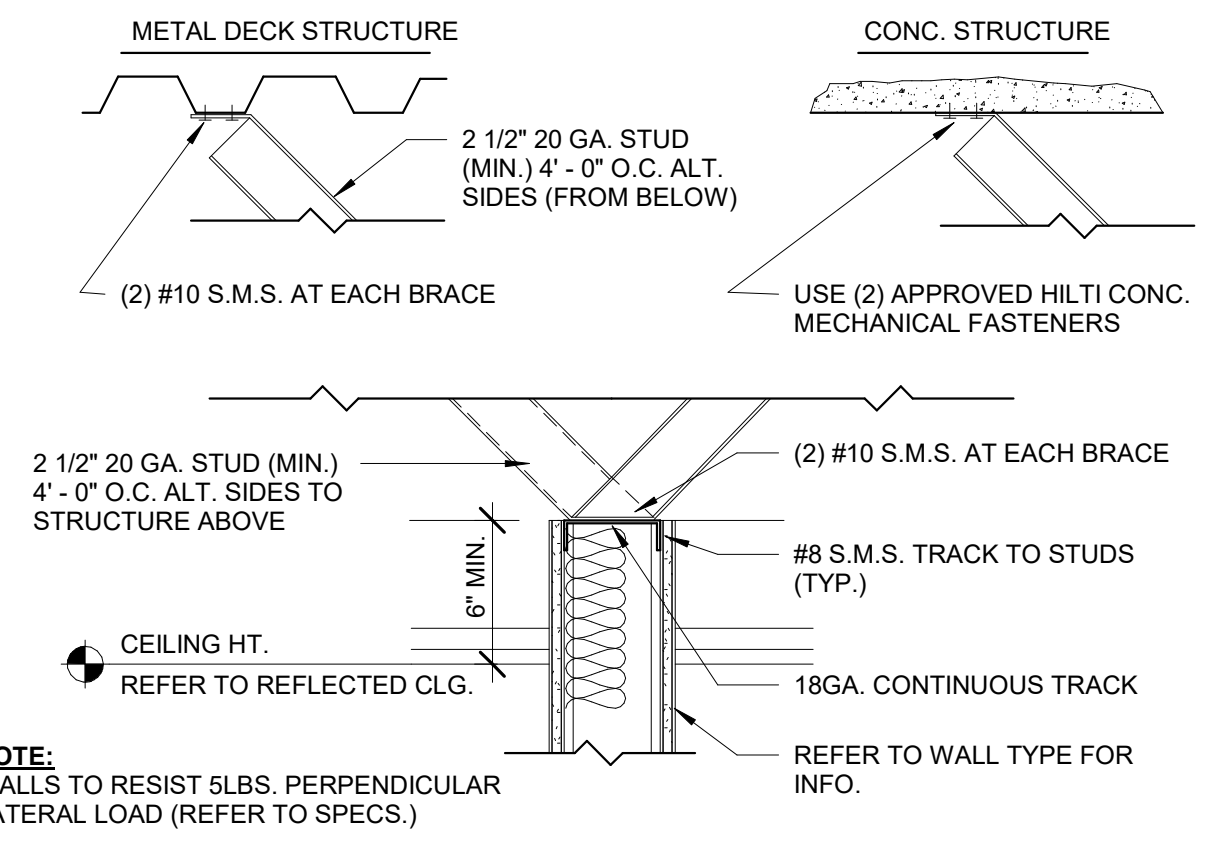
**D1 CEILING DETAIL**  
3" = 1'-0"



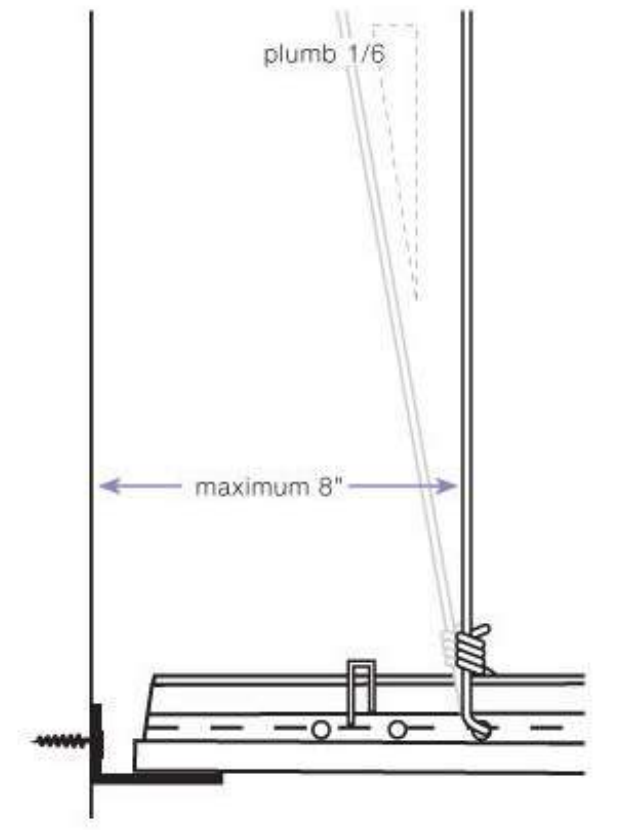
**D2 TYP. - WALL BASE DETAIL**  
3" = 1'-0"



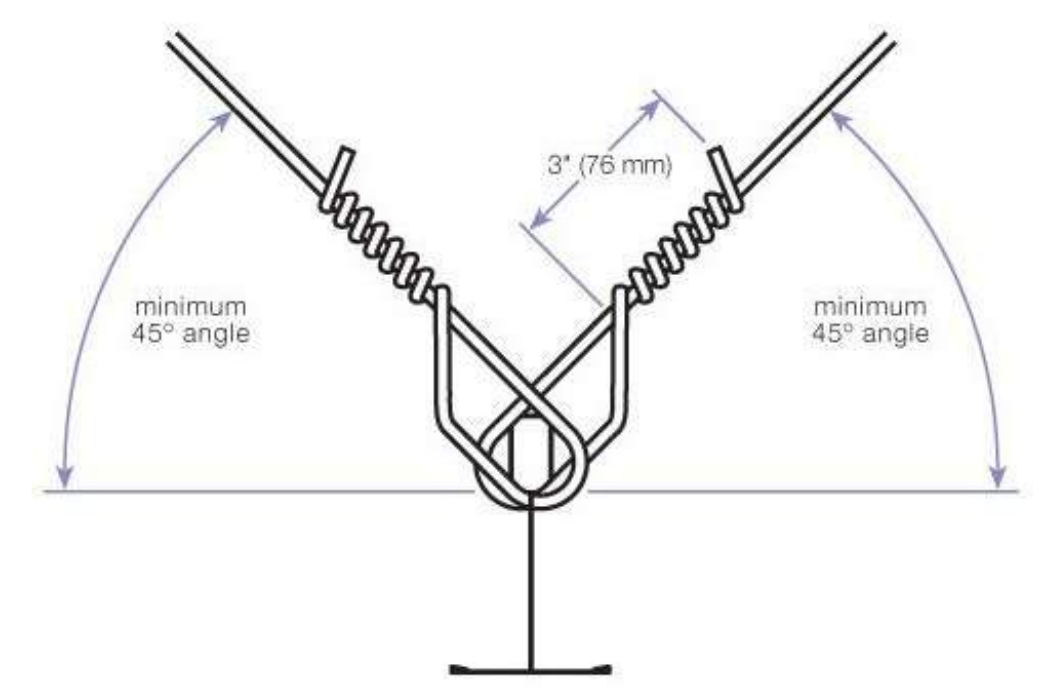
**D3 TYP. - WALL BASE DETAIL**  
3" = 1'-0"



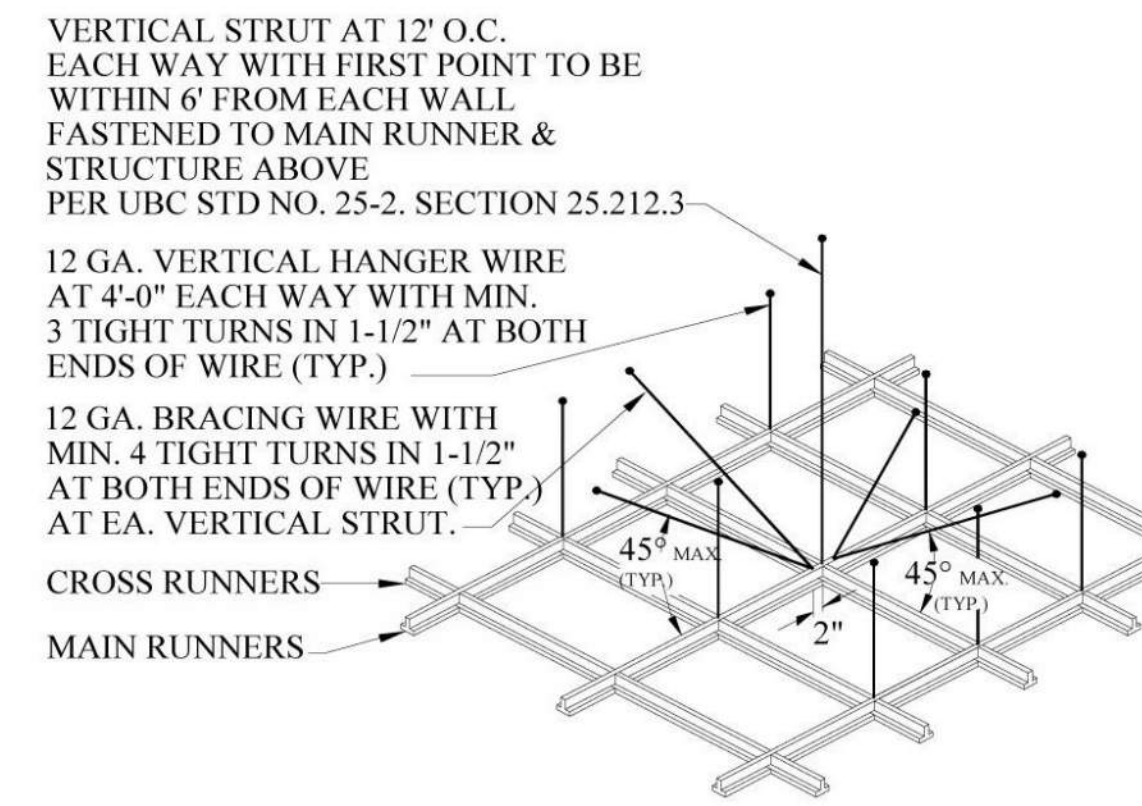
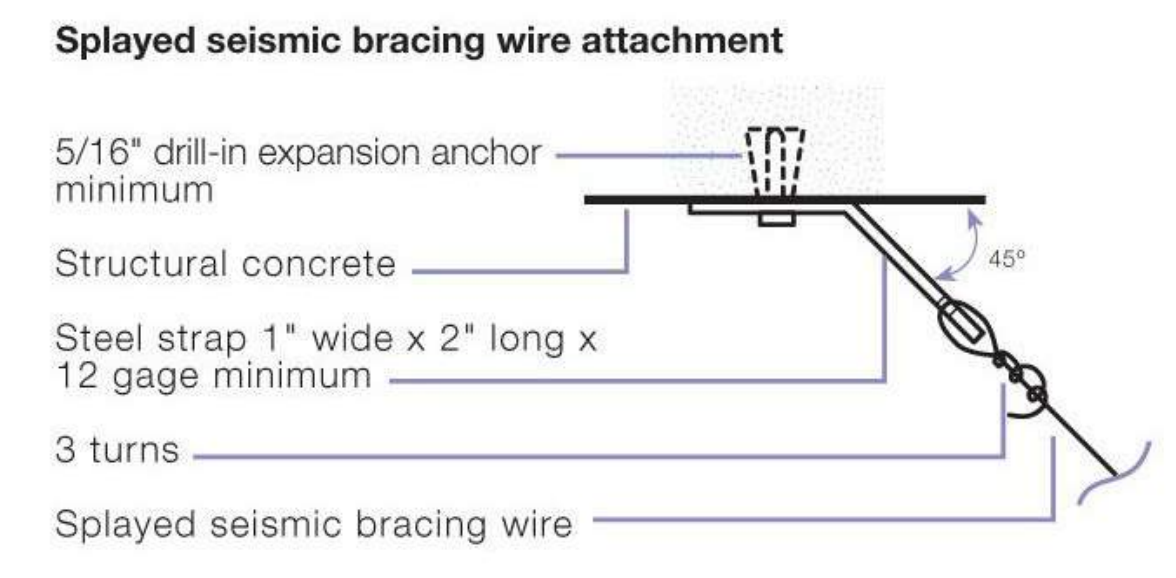
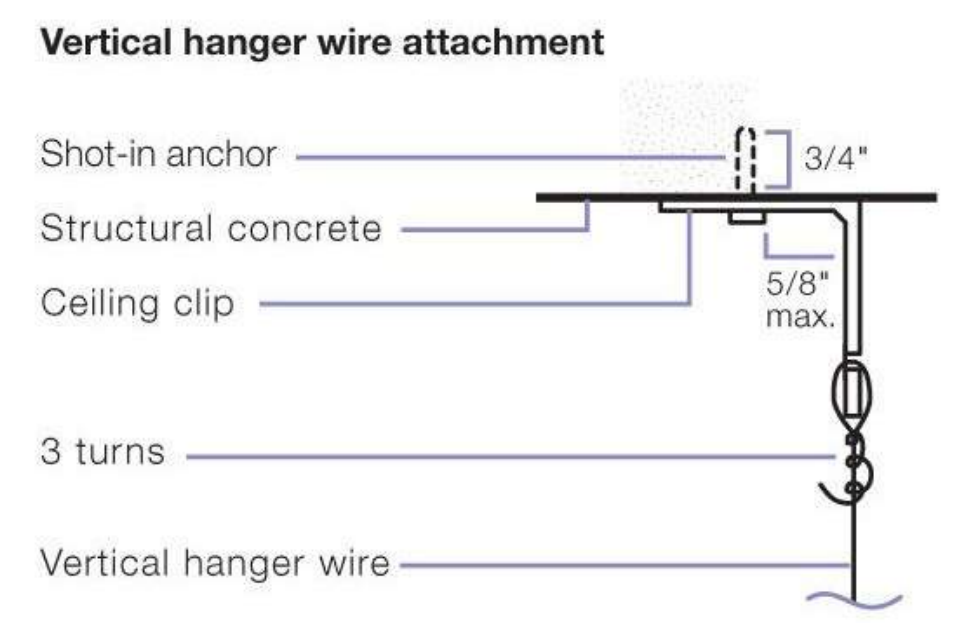
**D4 TYP. - WALL BRACE DETAIL**  
1 1/2" = 1'-0"



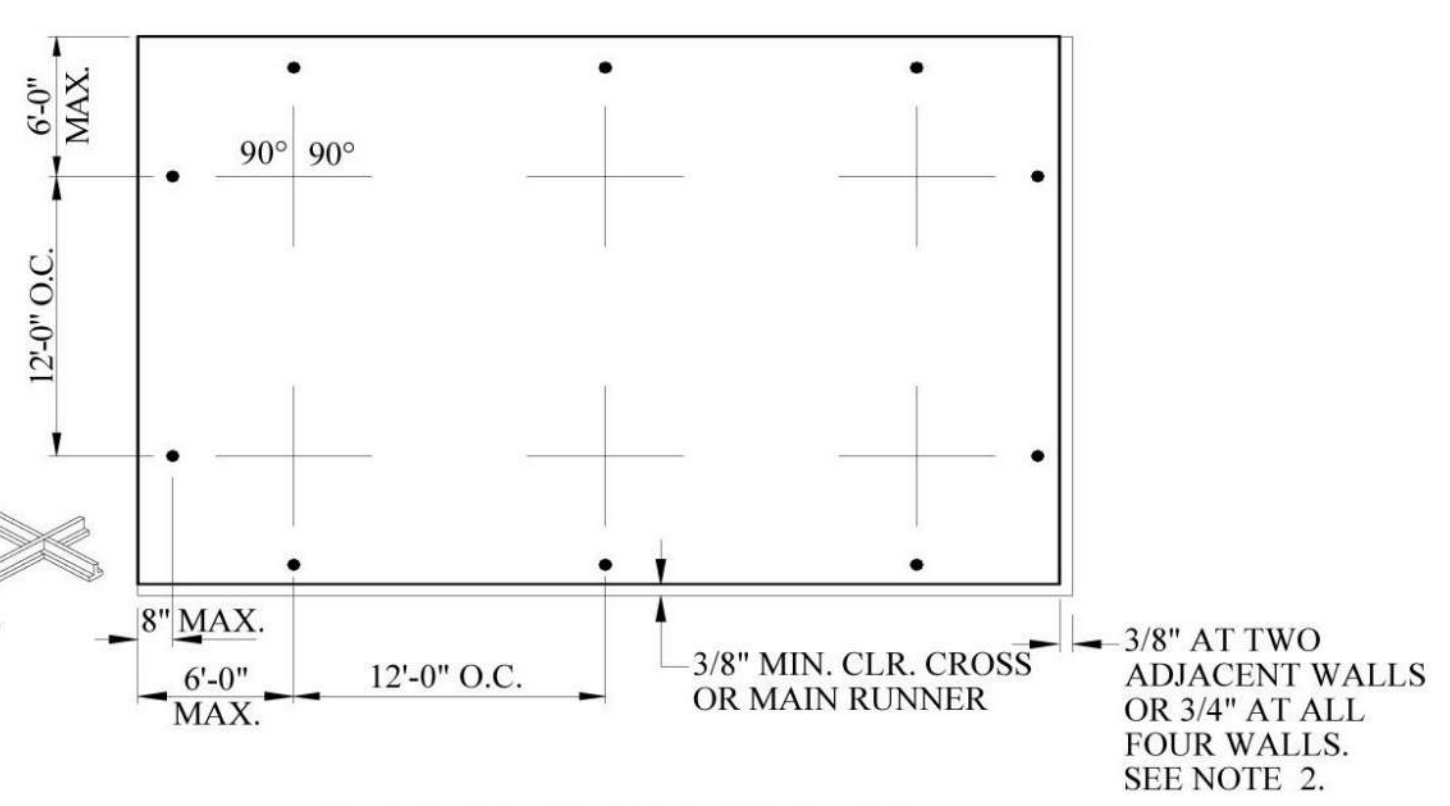
**C1 HANGER SUSPENSION WIRES**  
12" = 1'-0"



**C3 WIRE ATTACHMENTS**  
12" = 1'-0"



**A1 TYP. SUSPENDED CEILING & LATERAL SUPPORT**  
12" = 1'-0"

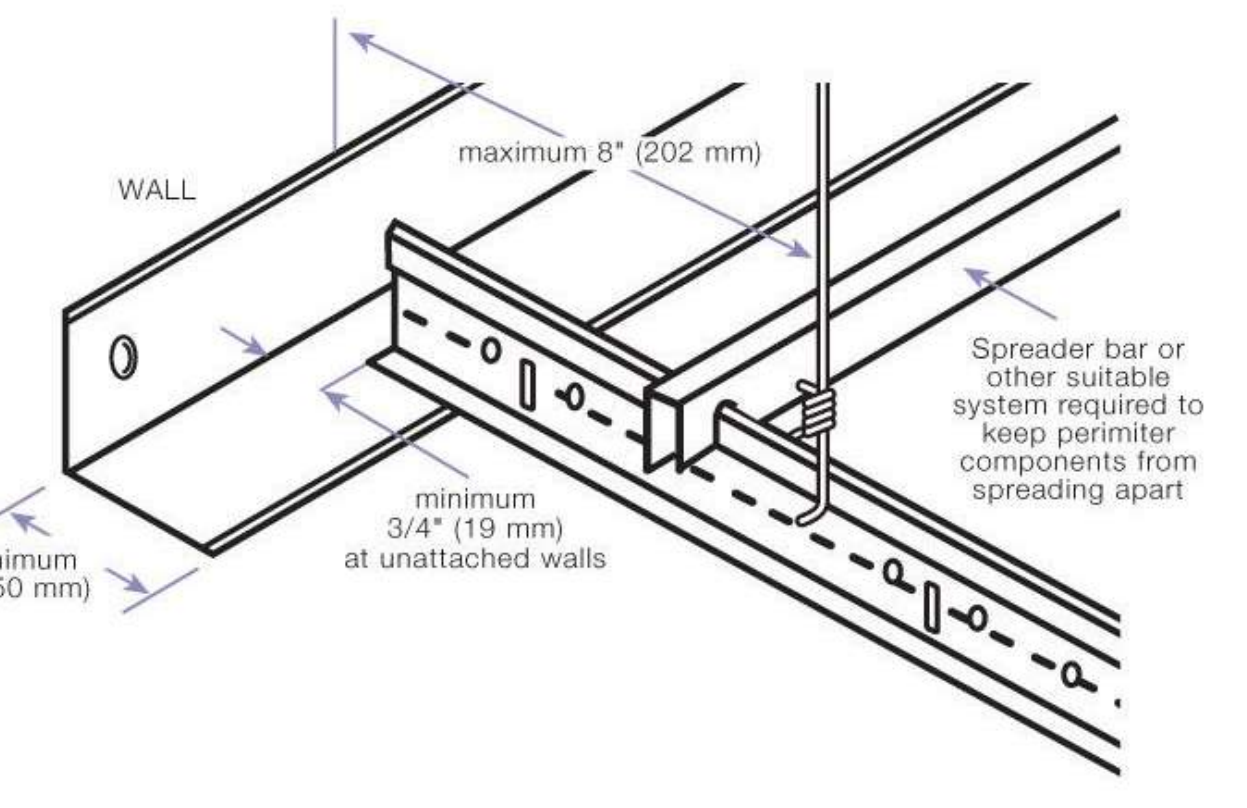


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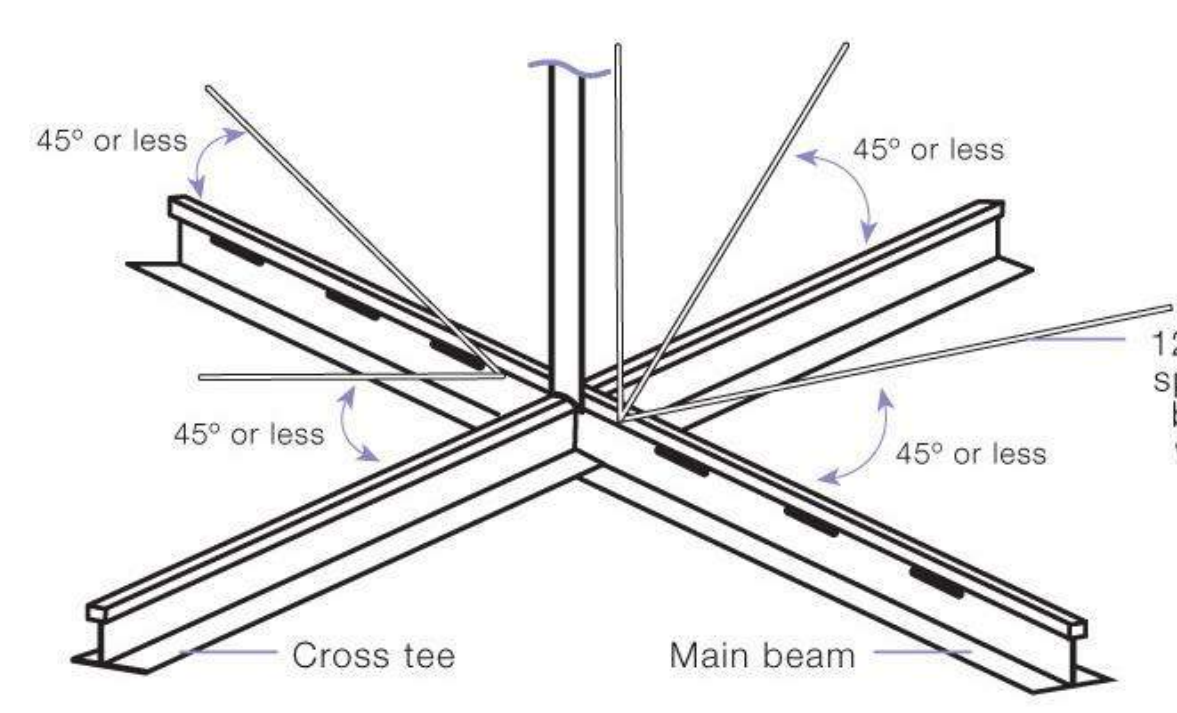
- BRACING WIRES SECURED TO MAIN RUNNERS WITHIN 2" OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90° FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45° FROM THE PLANE OF THE CEILING.
- FOR ROOMS WITH SPAN IN EITHER DIRECTION LESS THAN 25', MAIN RUNNERS AND CROSS RUNNERS MAY BE ATTACHED TO THE PERIMETER OF TWO ADJACENT WALLS WITH 3/8" CLEARANCE BETWEEN THE RUNNERS AND THE OTHER TWO WALLS. WHERE SPAN OF THE CEILING SYSTEM BETWEEN PERIMETER WALLS EXCEEDS 25' IN BOTH DIRECTIONS, A MINIMUM WALL ANGLE SIZE OF AT LEAST 2" HORIZONTAL LEG SHALL BE USED AT PERIMETER WALLS AND INTERIOR FULL HEIGHT PARTITION. THE FIRST TILE SHALL BE 3/4" CLEAR FROM WALL SURFACE.
- WHEN THE DISTANCE BETWEEN THE STRUCTURAL DECK AND THE CEILING EXCEEDS 4', THE SPACING OF THE VERTICAL HANGERS SHALL NOT EXCEED 2' O.C. ALONG THE ENTIRE LENGTH OF THE MEANS OF EGRESS SERVING AN OCCUPANT LOAD OF 30 OR MORE, AND AT LOBBIES ACCESSORY TO GROUP A OCCUPANCIES.

**TYPICAL SUSPENDED CEILING VERTICAL & LATERAL SUPPORT**

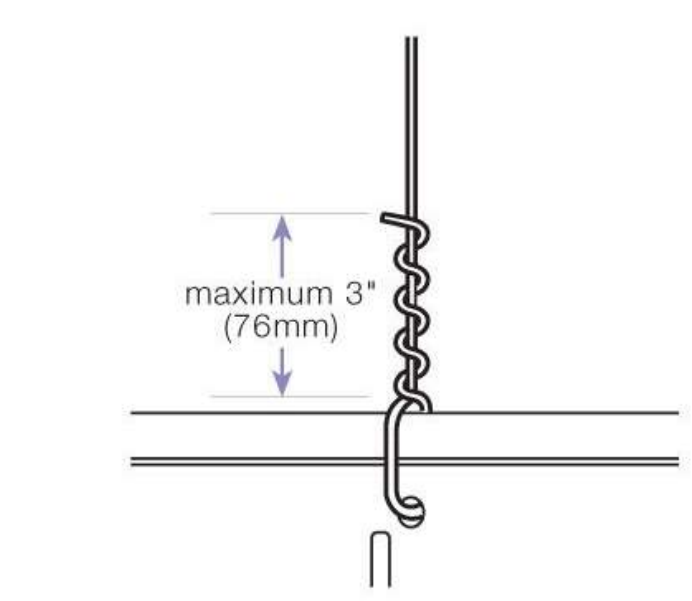
**B3 WALL MOLDING REQUIREMENTS**  
12" = 1'-0"



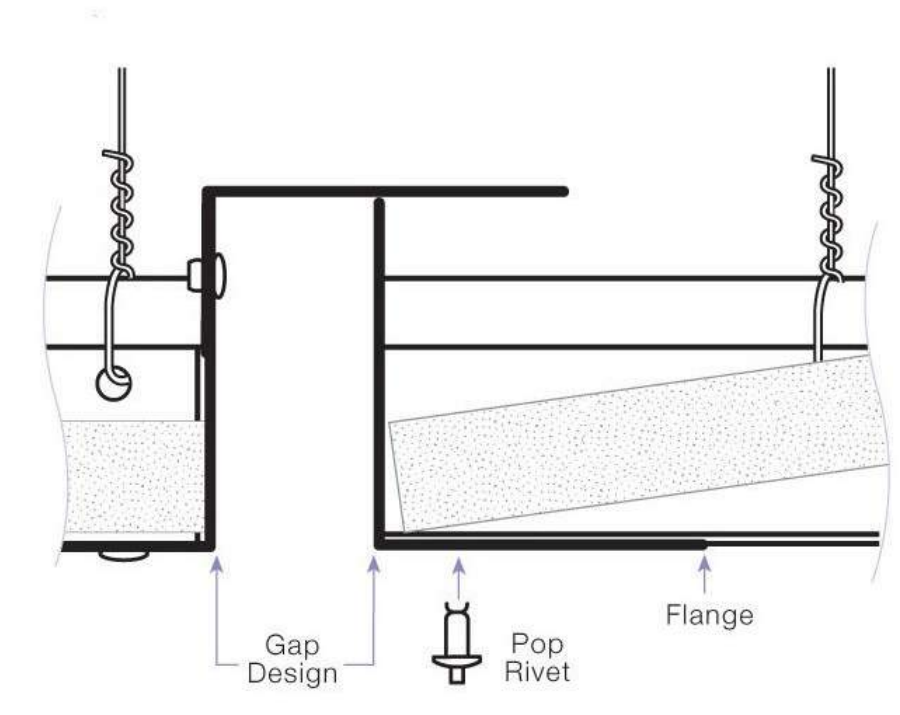
**A3 LATERAL FORCE BRACING**  
12" = 1'-0"



**B5 WIRE TIE**  
12" = 1'-0"



**A5 SEISMIC SEPARATION JOINTS**  
12" = 1'-0"



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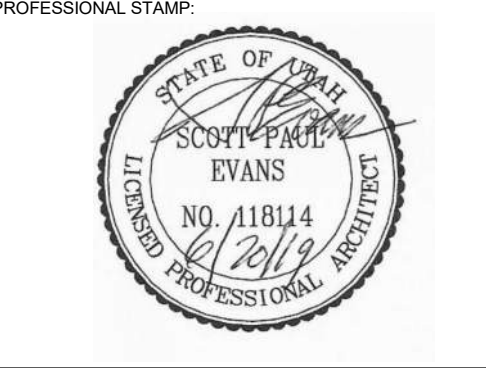
SHEET TITLE

**DETAILS**

SHEET NUMBER

**AE-501**





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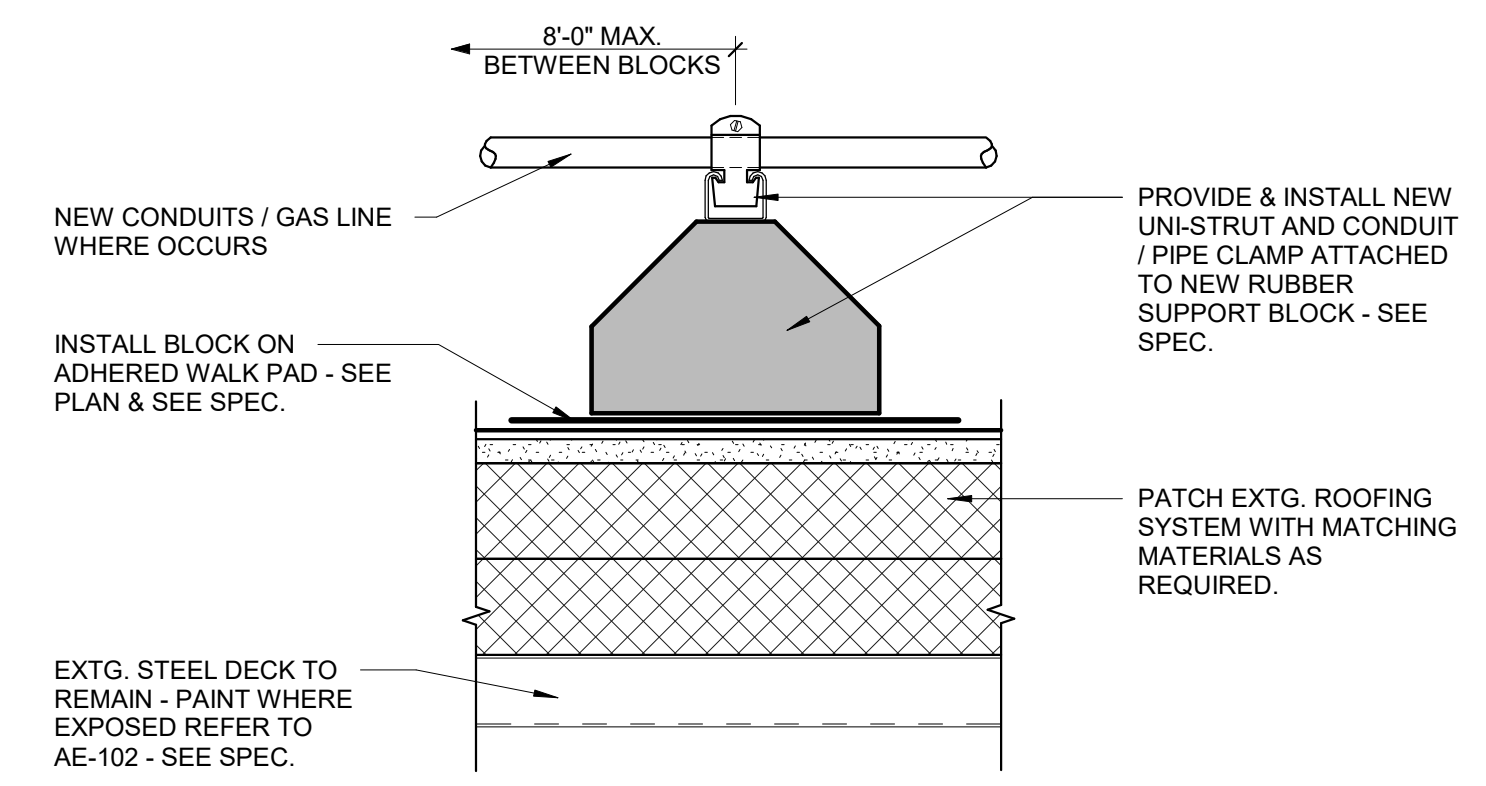
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 CHECKED BY: SPE  
 DESIGNED BY: SPE

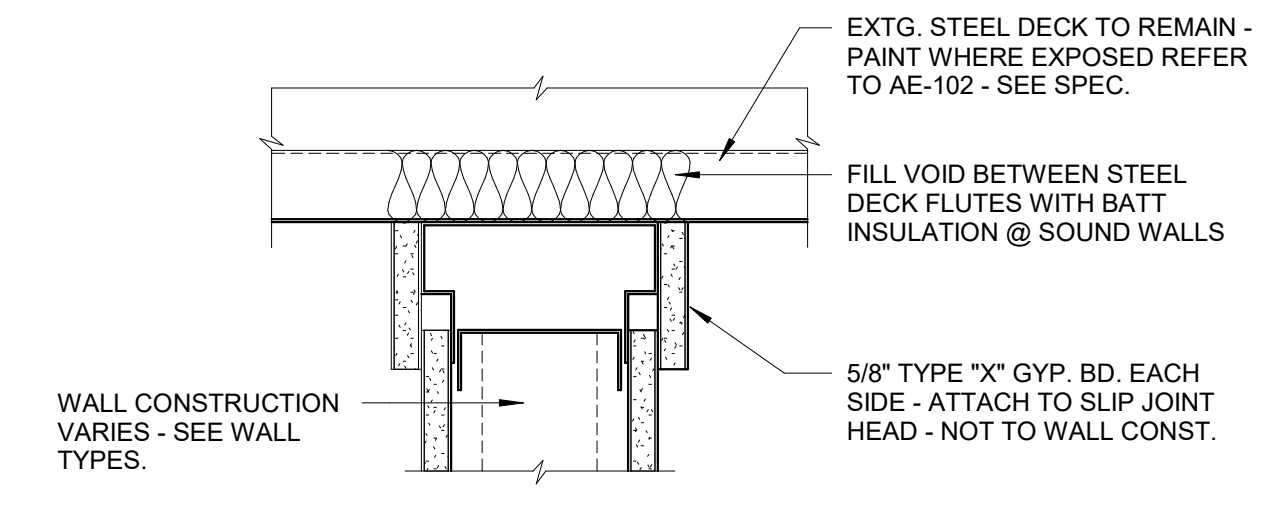
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SHEET TITLE:  
**DETAILS**

SHEET NUMBER:  
**AE-502**

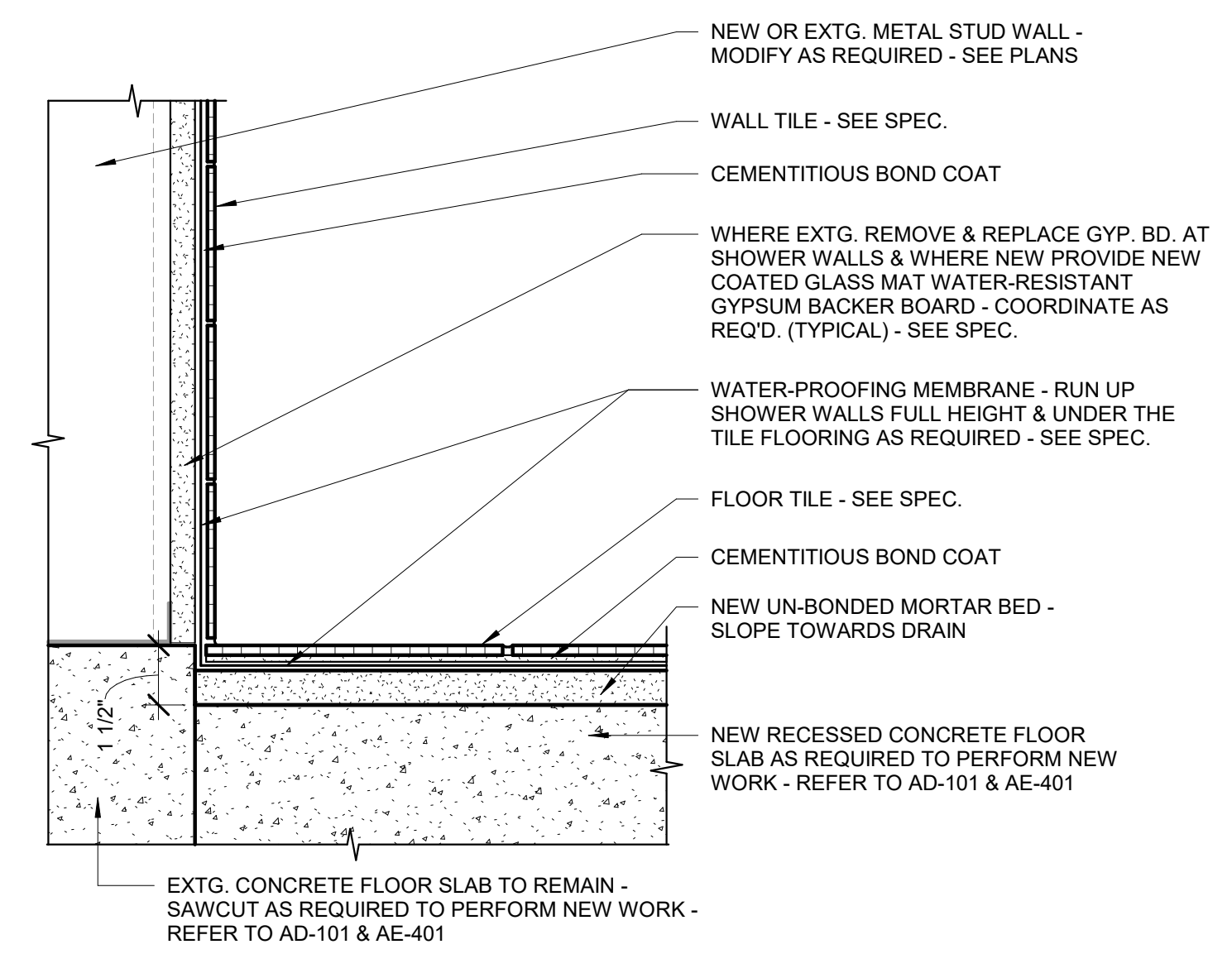


**C2 CONDUIT ON ROOF DETAIL**  
 3" = 1'-0"

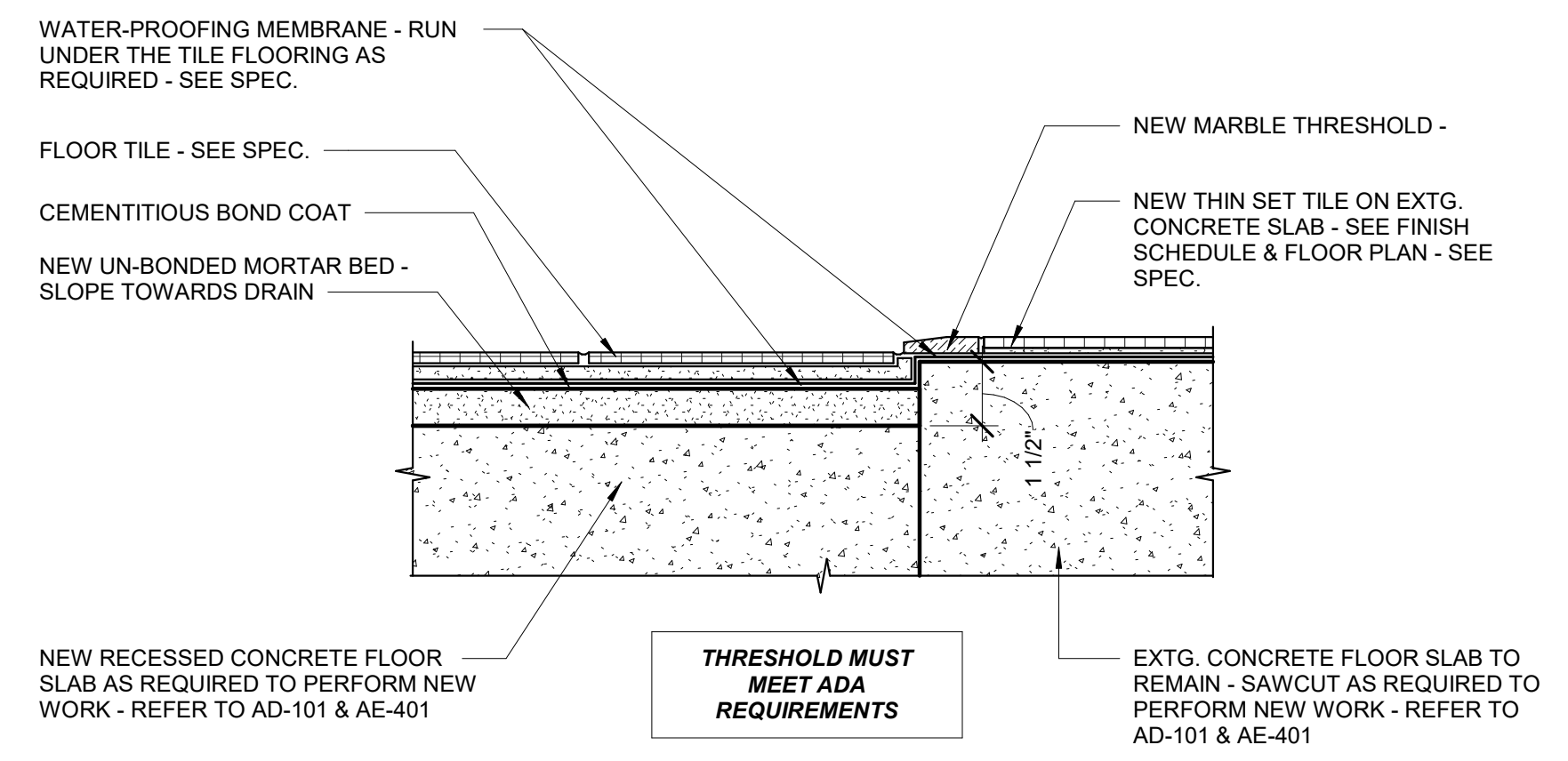


**C3 TYP. - WALL SLIP JOINT DETAIL**  
 3" = 1'-0"

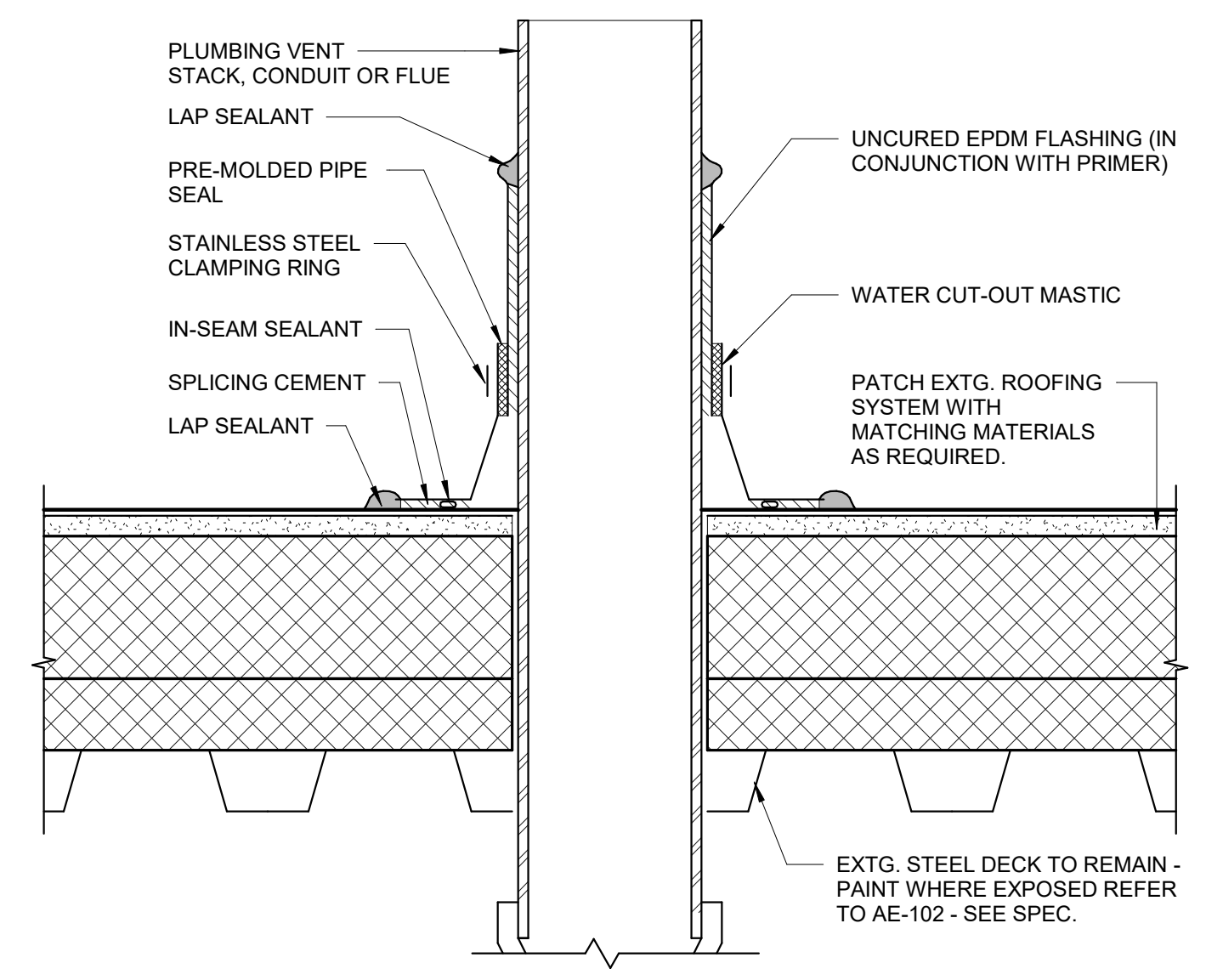
THIS DETAIL IS TYP. FOR ALL WALLS THAT ARE EXTENDED TO STRUCTURE ABOVE. MODIFY ATTACHMENT OF SLIP JOINT ANGLE @ STEEL BEAMS ETC. AS REQUIRED



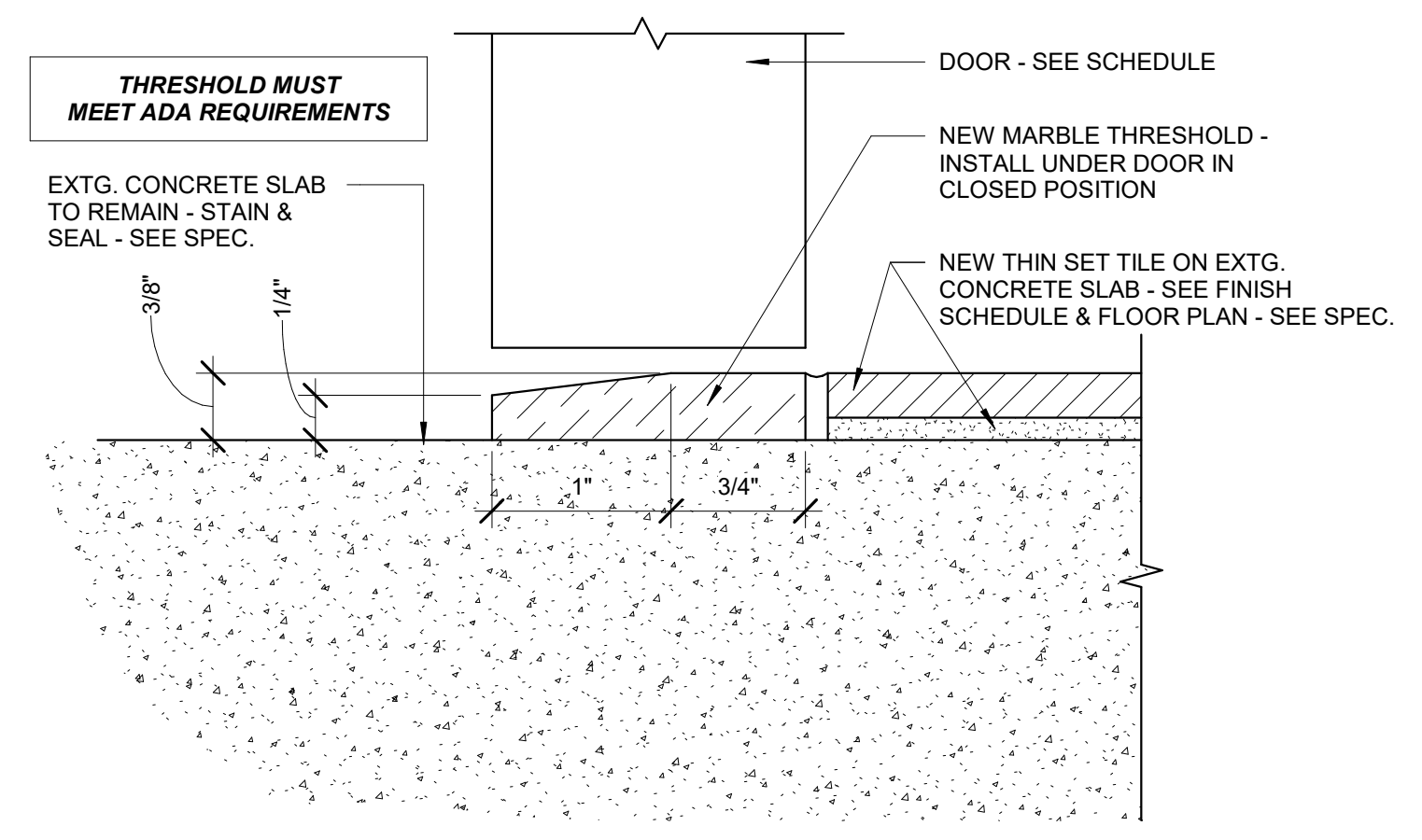
**B1 FLOOR TO WALL @ SHOWER DETAIL**  
 3" = 1'-0"



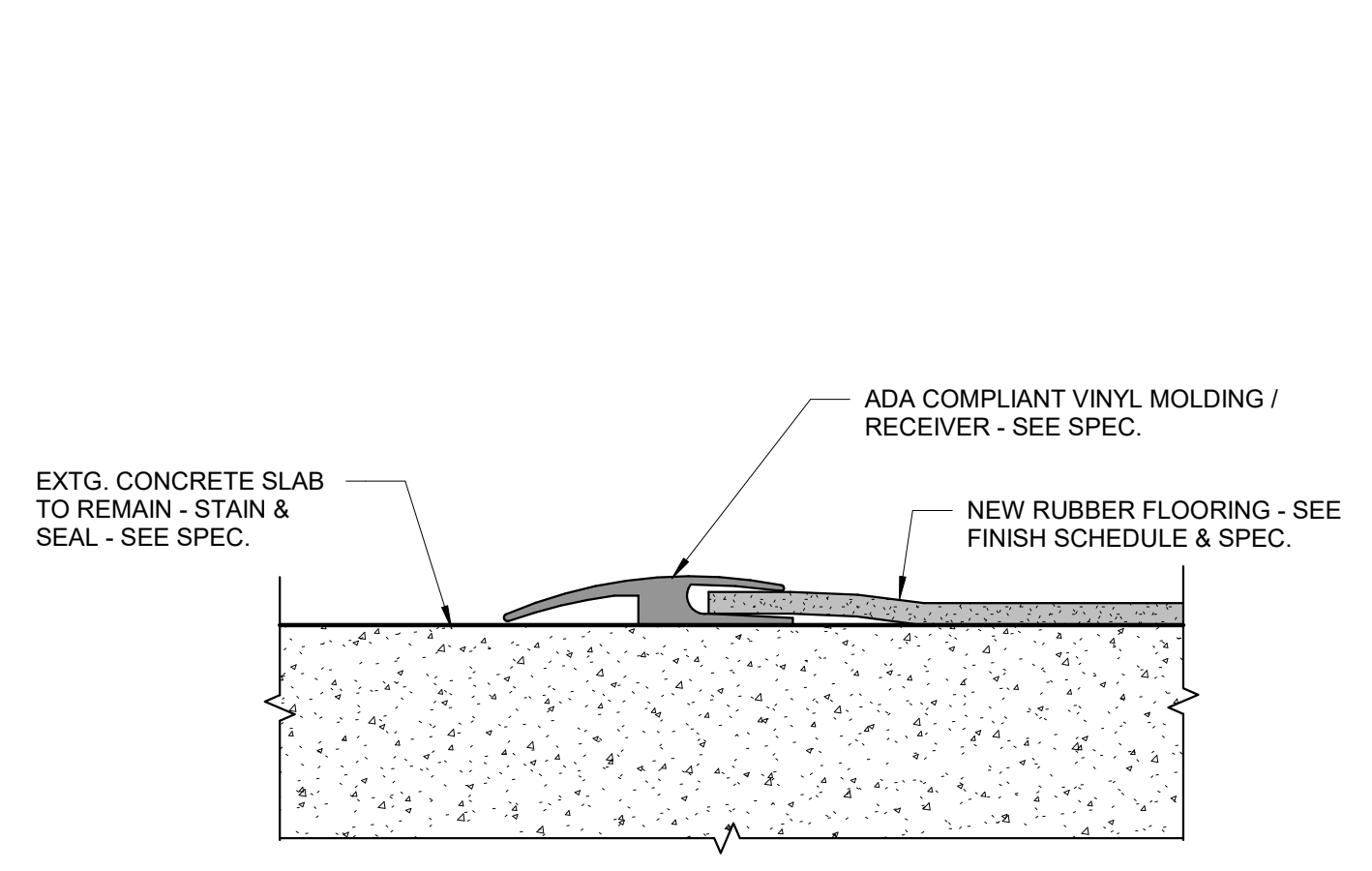
**B2 SHOWER FLOOR DETAIL**  
 3" = 1'-0"



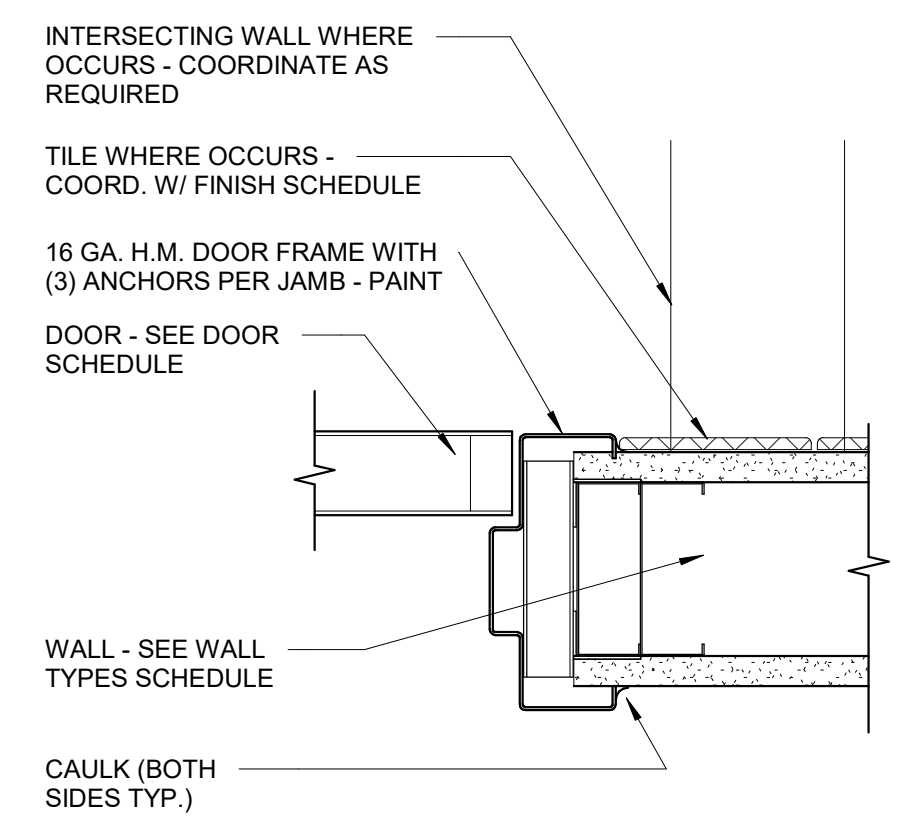
**B4 VENT FLASHING DETAIL**  
 3" = 1'-0"



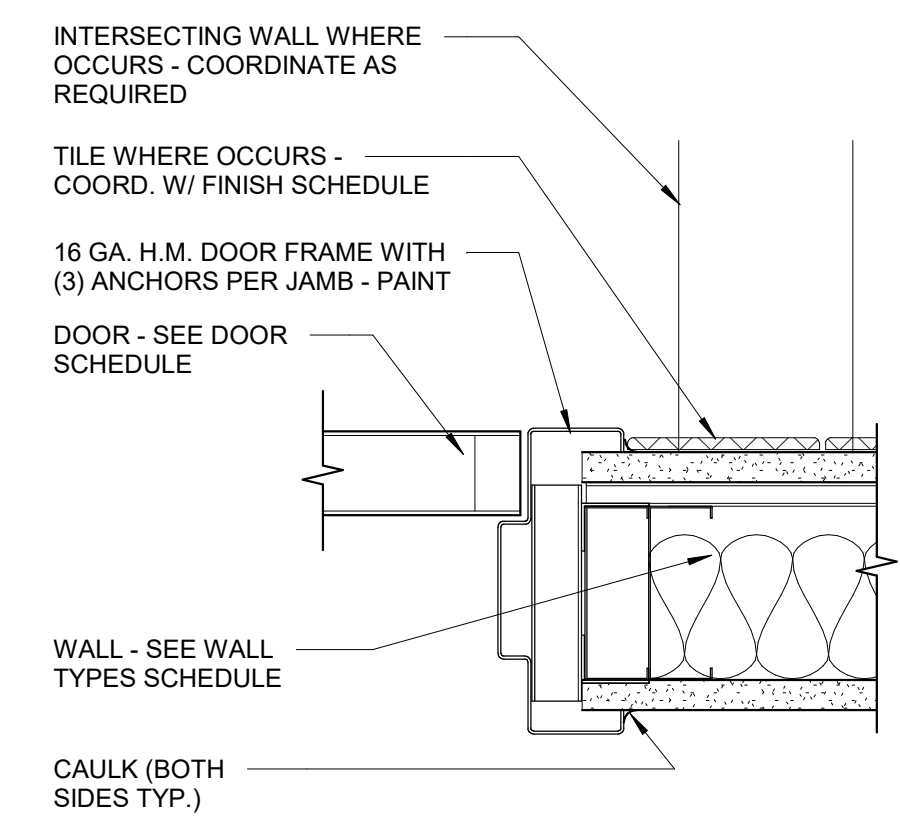
**A1 THRESHOLD DETAIL**  
 12" = 1'-0"



**A2 THRESHOLD DETAIL**  
 12" = 1'-0"



**A3 INTERIOR H.M. DOOR**  
 3" = 1'-0"



**A4 INTERIOR H.M. DOOR (RATED)**  
 3" = 1'-0"



ROOM FINISH SCHEDULE														
ROOM #	ROOM NAME	FLOOR FINISH	BASE	NORTH WALL MATERIAL	NORTH WALL FINISH	EAST WALL MATERIAL	EAST WALL FINISH	SOUTH WALL MATERIAL	SOUTH WALL FINISH	WEST WALL MATERIAL	WEST WALL FINISH	CEILING MATERIAL	CEILING FINISH	COMMENTS
301	POLICE TRAINING / GYM	*RUBBER / **STAINED SEALED CONCRETE	4" RUBBER / ***TILE	NEW / EXTG. GYP. BD.	PAINT	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT	OPEN TO STRUCTURE	PAINT	*SEE AE-101 FOR LOCATION - **THE CONCRETE SLAB IS EXTG. - ***TILE BASE AT E.W.C.
302	UNISEX LOCKER AREA	*STAINED SEALED CONCRETE	4" RUBBER	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT	LAY-IN	NONE	
303	UNISEX SHOWER	TILE	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT	
304	UNISEX SHOWER	TILE	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT	
305	ADA UNISEX SHOWER	TILE	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT	
306	CORRIDOR	*STAINED SEALED CONCRETE	4" RUBBER	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT	LAY-IN	NONE	*THE CONCRETE SLAB IS EXTG.
307	JAN.	*STAINED SEALED CONCRETE	4" RUBBER	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT / TILE	NEW GYP. BD.	PAINT / TILE	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT	*THE CONCRETE SLAB IS EXTG.
308	UNISEX T.R.	*STAINED SEALED CONCRETE	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	PAINT	*THE CONCRETE SLAB IS EXTG.
309	ADA UNISEX T.R.	*STAINED SEALED CONCRETE	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	TILE	NEW GYP. BD.	PAINT	*THE CONCRETE SLAB IS EXTG.
310	CORRIDOR	*STAINED SEALED CONCRETE	4" RUBBER	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT	OPEN	NONE	EXTG. GYP. BD.	PAINT	OPEN TO STRUCTURE	PAINT	*THE CONCRETE SLAB IS EXTG.

DOOR SCHEDULE																	
DOOR #	DOOR			DOOR					FRAME			FRAME (L) JAMB DETAIL	FRAME (R) JAMB DETAIL	FRAME HEAD DETAIL	THRESHOLD DETAIL	SIGNAGE TYPE	COMMENTS
	WIDTH	HEIGHT	DOOR TYPE	THICKNESS	MATERIAL	FINISH	FIRE RATING	HARDWARE	TYPE	MATERIAL	FINISH						
301	3'-0"	7'-0"	EXTG.	1 3/4"	EXTG.	EXTG.	NONE	1.0	EXTG.	EXTG.	PAINT	A4/AE-502 SIM.	A4/AE-502 SIM.	A4/AE-502 SIM.	EXTG.	A	REINSTALL EXTG. CARD READER ON NEW WALL SURFACE AS REQUIRED
302	3'-0"	7'-0"	A	1 3/4"	S.C. WOOD	TRANSPARENT	NONE	3.0	A	HOLLOW METAL	PAINT	A4/AE-502	A4/AE-502	A4/AE-502 SIM.	NONE	A	
303	3'-0"	7'-0"	A	1 3/4"	S.C. WOOD	TRANSPARENT	NONE	2.0	A	HOLLOW METAL	PAINT	A4/AE-502	A4/AE-502	A4/AE-502 SIM.	A1/AE-502	B	
304	3'-0"	7'-0"	A	1 3/4"	S.C. WOOD	TRANSPARENT	NONE	2.0	A	HOLLOW METAL	PAINT	A4/AE-502	A4/AE-502	A4/AE-502 SIM.	A1/AE-502	B	
305	3'-0"	7'-0"	A	1 3/4"	S.C. WOOD	TRANSPARENT	NONE	2.0	A	HOLLOW METAL	PAINT	A4/AE-502	A4/AE-502	A4/AE-502 SIM.	A1/AE-502	B	
306	3'-0"	7'-0"	A	1 3/4"	S.C. WOOD	TRANSPARENT	NONE	4.0	A	HOLLOW METAL	PAINT	A3/AE-502	A3/AE-502	A3/AE-502 SIM.	NONE	A	
307	3'-0"	7'-0"	A	1 3/4"	S.C. WOOD	TRANSPARENT	NONE	2.0	A	HOLLOW METAL	PAINT	A4/AE-502	A4/AE-502	A4/AE-502 SIM.	NONE	B	
308	3'-0"	7'-0"	A	1 3/4"	S.C. WOOD	TRANSPARENT	NONE	2.0	A	HOLLOW METAL	PAINT	A4/AE-502	A4/AE-502	A4/AE-502 SIM.	NONE	B	

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PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME

**2019 DRAPER CITY HALL  
UPPER LEVEL REMODEL**

1020 PIONEER ROAD  
DRAPER, UTAH 84020

REVISIONS:

NO.	DATE	DESCRIPTION
01	06/21/19	CONSTRUCTION BID SET

ISSUED:

NO.	DATE	DESCRIPTION
01	06/21/19	CONSTRUCTION BID SET

OWNER PROJECT #:

SPE PROJECT #: 19-38

DRAWN BY: JBE

CHECKED BY: SPE

DESIGNED BY: SPE

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SHEET TITLE

**SCHEDULES**

SHEET NUMBER

**AE-601**

NOTE THAT THE TYPICAL FONT FOR PANEL SIGNS SHALL BE CENTURY GOTHIC UNLESS NOTED OTHERWISE - EXACT TEXT IS TO BE DETERMINED DURING THE SUBMITTAL PROCESS - SIGNS (DESIGN & INSTALLATION) MUST MEET ALL APPLICABLE CODES

COORDINATE EXACT LOCATION WITH ARCHITECT & OWNER BEFORE INSTALLING - REFER TO SHEET GI-004

**"A"**

SOLID CORE WOOD - PLAIN SLICED - SEE SPEC.

**"A"**

PAINTED HOLLOW METAL FRAME

**TYPE "A"**

BACKER: 1/8" ACRYLIC PAINTED BRUSHED ALUMINUM (COLOR TBD)

3/4" RAISED WHITE VINYL LETTERING

2nd LAYER: 1/8" LAMINATE (COLOR TBD)

3/4" RAISED WHITE VINYL LETTERING

GRADE 2 BRAILLE (ROOM # ONLY)

**TYPE "B"**

BACKER: 1/8" ACRYLIC PAINTED BRUSHED ALUMINUM (COLOR TBD)

RAISED SYMBOLS

2nd LAYER: 1/8" LAMINATE (COLOR TBD)

3/4" RAISED WHITE VINYL LETTERING

GRADE 2 BRAILLE

**A1** DOOR TYPES

3/8" = 1'-0"

**A2** DOOR FRAME TYPE

3/8" = 1'-0"

**A3** SIGNAGE

3" = 1'-0"

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## MECHANICAL LEGEND

SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION
GENERAL TERMINOLOGY			AIR SIDE		
		SECTION LETTER DESIGNATION SECTION DRAWN ON THIS SHEET			EXISTING AIR DUCT TO BE REMOVED
		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION			EXISTING AIR DUCT TO REMAIN
		MECHANICAL EQUIPMENT DESIGNATION EQUIPMENT ITEM DESIGNATION			NEW AIR DUCT
		REGISTER, GRILLE OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED BELOW			RECT TO RECT AIR DUCT TAKE-OFF
		GRILLE OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRED			RECT TO RND AIR DUCT TAKE-OFF
		REVISION DESIGNATOR AND NUMBER			RND TO RND AIR DUCT TAKE-OFF
		KEY NOTE DESIGNATOR AND NUMBER			MEDIUM PRESSURE TAKE-OFF
	POC	POINT OF CONNECTION			FLEXIBLE AIR DUCT
	POR	POINT OF REMOVAL			LINED DUCT
AFF		ABOVE FINISHED FLOOR			RADIUS ELBOW
AP		ACCESS PANEL			ECCENTRIC DUCT TRANSITION
C EL.		CENTERLINE ELEVATION			CONCENTRIC DUCT TRANSITION
GC		GENERAL CONTRACTOR			VOLUME DAMPER
MC		MECHANICAL CONTRACTOR			SUPPLY AIR DIFFUSER
ATC		CONTROLS CONTRACTOR			RETURN & TRANSFER AIR GRILLE
EC		ELECTRICAL CONTRACTOR			EXHAUST GRILLE OR CEILING EXH. FAN
FPC		FIRE PROTECTION CONTRACTOR			RETURN & OUTSIDE AIR DUCT UP/DN
NIC		NOT IN CONTRACT		AP	ACCESS PANEL
NTS		NOT TO SCALE			EXISTING EQUIPMENT TO BE REMOVED
VCP		VITRIFIED CLAY PIPE			EXISTING EQUIPMENT TO REMAIN
C		COMMON			NEW EQUIPMENT
NC		NORMALLY CLOSED	SA		SUPPLY AIR
NO		NORMALLY OPEN	RA		RETURN AIR
			EA		EXHAUST AIR
			OA		OUTSIDE AIR
			MA		MIXED AIR
			RF		RELIEF AIR
			FO		FLAT OVAL
		MVD	MVD		MOTORIZED VOLUME DAMPER
		BD	BD		BACKDRAFT DAMPER
		FD	FD		FIRE DAMPER
		SD	SD		SMOKE DAMPER
		FS	FS		FIRE & SMOKE DAMPER
		T-STAT			WALL MOUNTED THERMOSTAT
					WALL MOUNTED TEMP. SENSOR
		H-STAT			WALL MOUNTED HUMIDISTAT
		F-STAT			WALL MOUNTED FIRESTAT

### GENERAL NOTES

**G-1** - MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION OF THE EXISTING BUILDING AND SITE CONDITIONS, EXISTING PIPING, EXISTING ELECTRICAL, AND EXISTING SUPPORTS.

**A** - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

**B** - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

**C** - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

**D** - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.

**E** - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

**G-2** - ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CHANGES FOR APPROVAL. CONTRACTOR SHALL NOT START ANY CHANGES UNTIL NOTIFIED IN WRITING. IF CHANGES ARE MADE PRIOR TO APPROVAL CONTRACTOR SHALL TAKE ALL RESPONSIBILITY FOR THE CHANGES MADE AND ALL COSTS RELATING TO FAILURE OR REPLACEMENT OF ALTERATIONS.

**G-3** - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

**G-4** - THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.

**G-5** - THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.

**G-6** - MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.

**G-7** - SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.

**G-8** - PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.

**G-9** - SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.

**G-10** - PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.

**G-11** - THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.

**G-12** - THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.

**G-13** - C.F.M. LISTED IS ACTUAL AIR.

**G-14** - SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

**G-15** - CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

**G-16** - ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2015 EDITION OF THE IMC AND IPC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

**G-17** - THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND REFILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN REFILLING THE SYSTEM.

**G-18** - ALL PIPING, MATERIALS, ETC. SHALL BE NEW AND DOMESTIC MADE UNLESS SPECIFICALLY AUTHORIZED IN WRITING PRIOR TO BID.

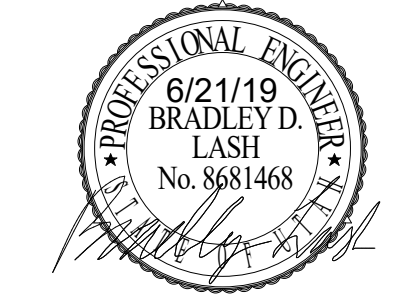
**G-19** - PROVIDE FIRE SPRINKLER MODIFICATIONS PER PERFORMANCE SPECIFICATION THROUGH NICET LEVEL 3 CERTIFIED DESIGN BUILD FIRE SPRINKLER CONTRACTOR.

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CODE OFFICIAL STAMP:

PROJECT NAME:

**2019 DRAPER CITY HALL  
UPPER LEVEL REMODEL**

1020 PIONEER ROAD  
DRAPER, UTAH 84020

REVISIONS:

NO. DATE DESCRIPTION

1 06/21/19 CONSTRUCTION BID SET

ISSUED:

NO. DATE DESCRIPTION

1 06/21/19 CONSTRUCTION BID SET

OWNER PROJECT #:

SPE PROJECT #: 19-38

DRAWN BY: JBH

CHECKED BY: BL

DESIGNED BY: DB

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SHEET TITLE:

**MECHANICAL  
GENERAL NOTES  
AND LEGEND**

SHEET NUMBER:

**MG001**



**WHW  
ENGINEERING INC.**  
PROFESSIONAL MECHANICAL ENGINEERING  
8619 Sandy Parkway Suite 101  
Sandy, Utah 84070  
801-466-4021, fax 466-8536  
Email: excellence@whw-engineering.com



**SHEET NOTES**

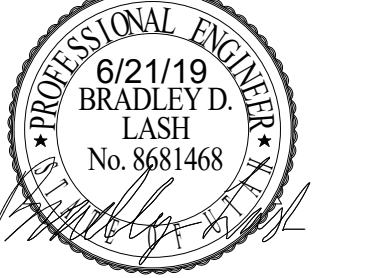
- 1 CONNECT TO EXISTING DUCTS STUBBED INTO CEILING SPACE. FIELD VERIFY EXACT LOCATION.
- 2 12 Ø EXHAUST UP THROUGH ROOF. SEE DETAIL ON ME501.
- 3 4 Ø COMBUSTION AIR AND FLUE UP THROUGH ROOF. TERMINATE ACCORDING TO WATER HEATER MANUFACTURERS RECOMMENDATIONS.
- 4 EXPOSED DUCT TO BE CLEAN AND FREE FROM FABRICATION OR CONSTRUCTION MARKS AND PAINTED AS DIRECTED BY THE ARCHITECT. EXPOSED DUCTWORK SHALL BE SPIRAL ROUND.
- 5 PROVIDE CEILING EXHAUST FAN IN THIS APPROXIMATE LOCATION. COORDINATE WITH OTHER DISCIPLINES. PROVIDE BACKDRAFT DAMPER.

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 DRAPER, UTAH 84020

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DRAWN BY: JBH

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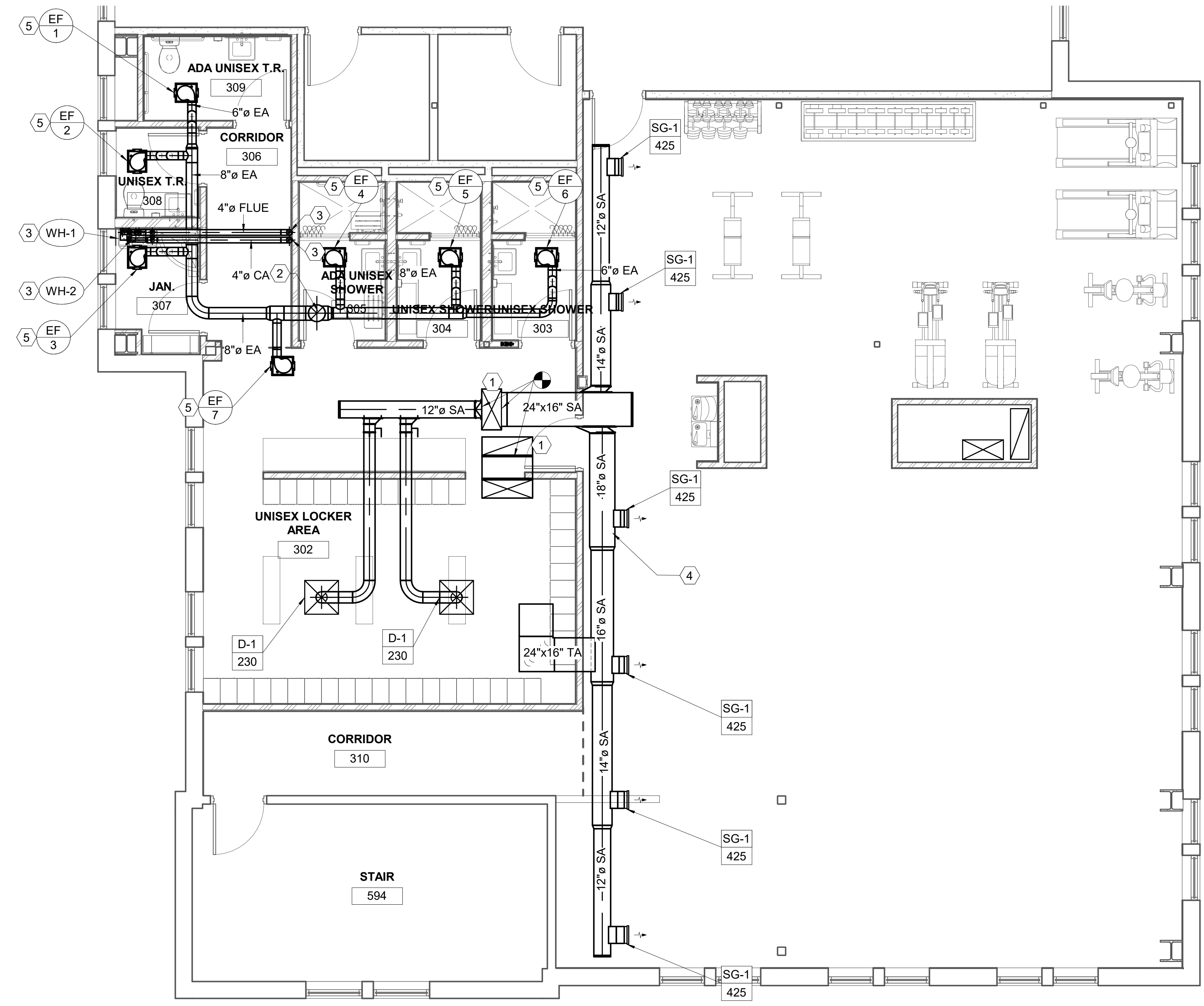
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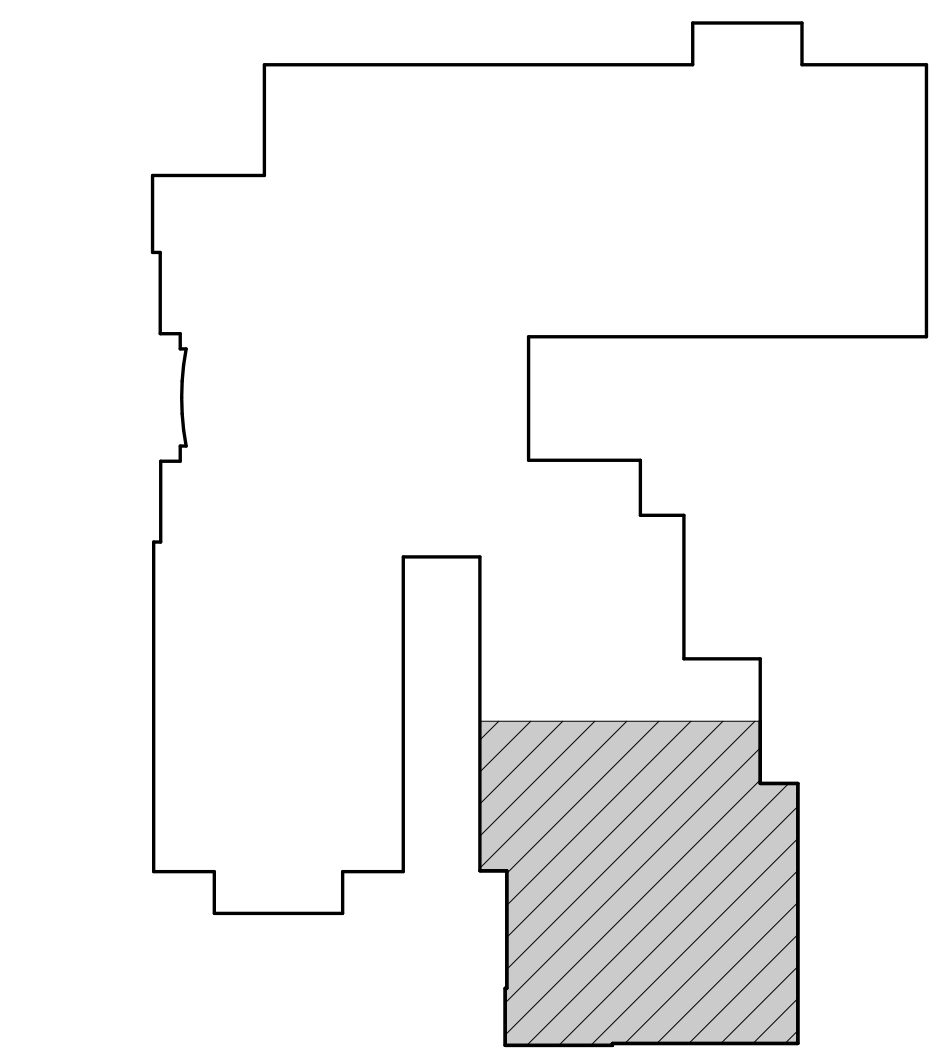
**MECHANICAL  
 UPPER LEVEL  
 FLOOR PLAN**

SHEET NUMBER:

**ME101**



**2 ENLARGED MECHANICAL PLAN**  
 1/4" = 1'-0"



**KEY PLAN ENLARGED**  
 1" = 40'-0"



**WHW  
 ENGINEERING INC.**  
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 801-466-4021, fax 466-8536  
 Email: excellence@whw-engineering.com

**SHEET NOTES**

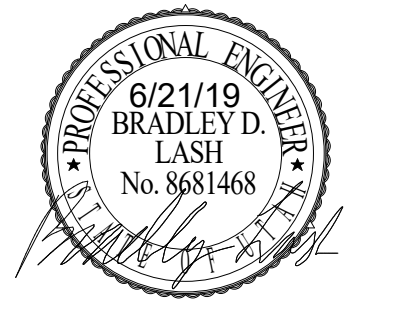
- 1 4 Ø COMBUSTION AIR AND FLUE UP THROUGH ROOF. TERMINATE ACCORDING TO WATER HEATER MANUFACTURERS RECOMMENDATIONS.
- 2 12 Ø EXHAUST UP THROUGH ROOF, SEE DETAIL ON ME501.

ARCHITECT'S INFORMATION:



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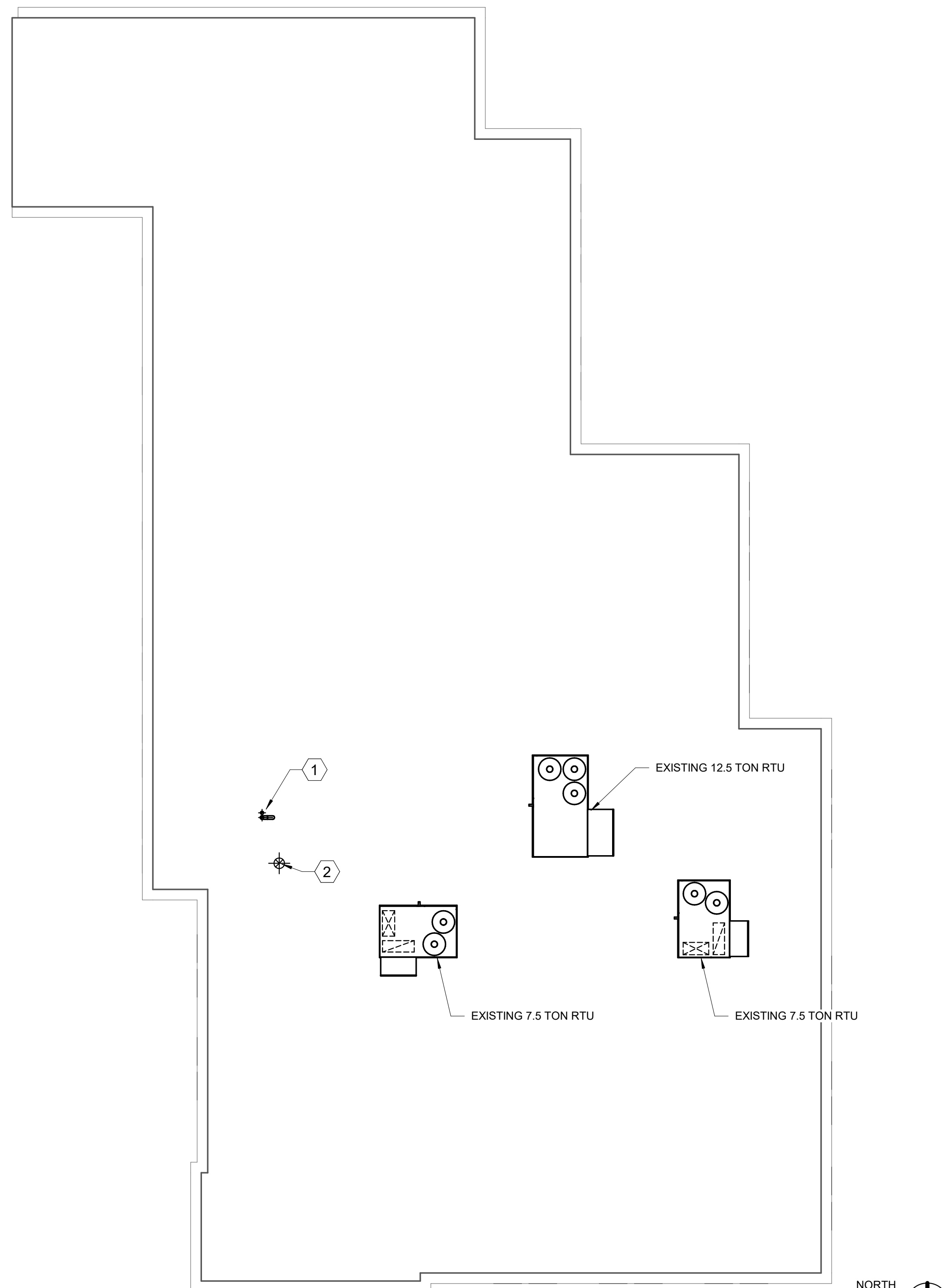
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SHEET TITLE:

**MECHANICAL  
 ROOF PLAN**

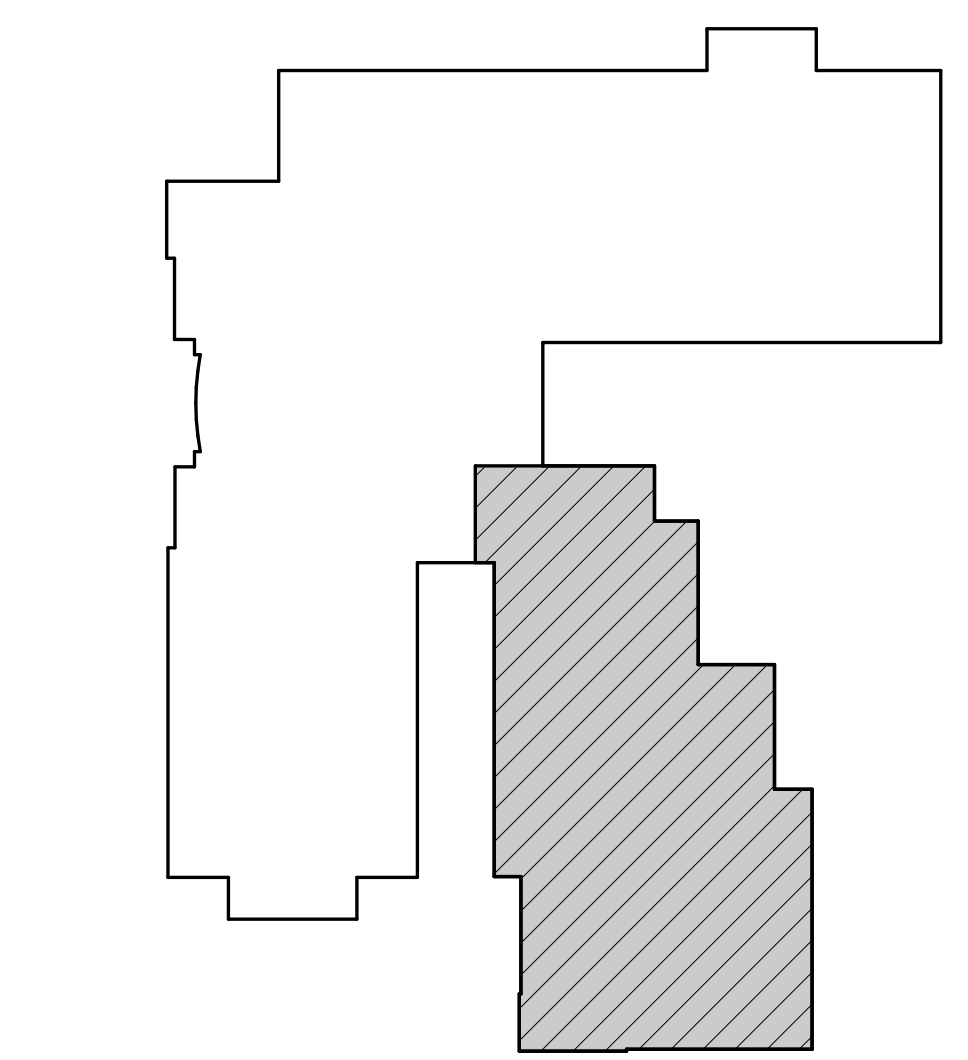
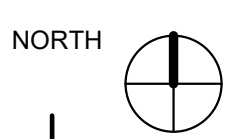
SHEET NUMBER:

**ME102**



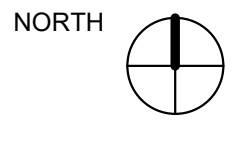
**1 MECHANICAL ROOF PLAN**

1/8" = 1'-0"



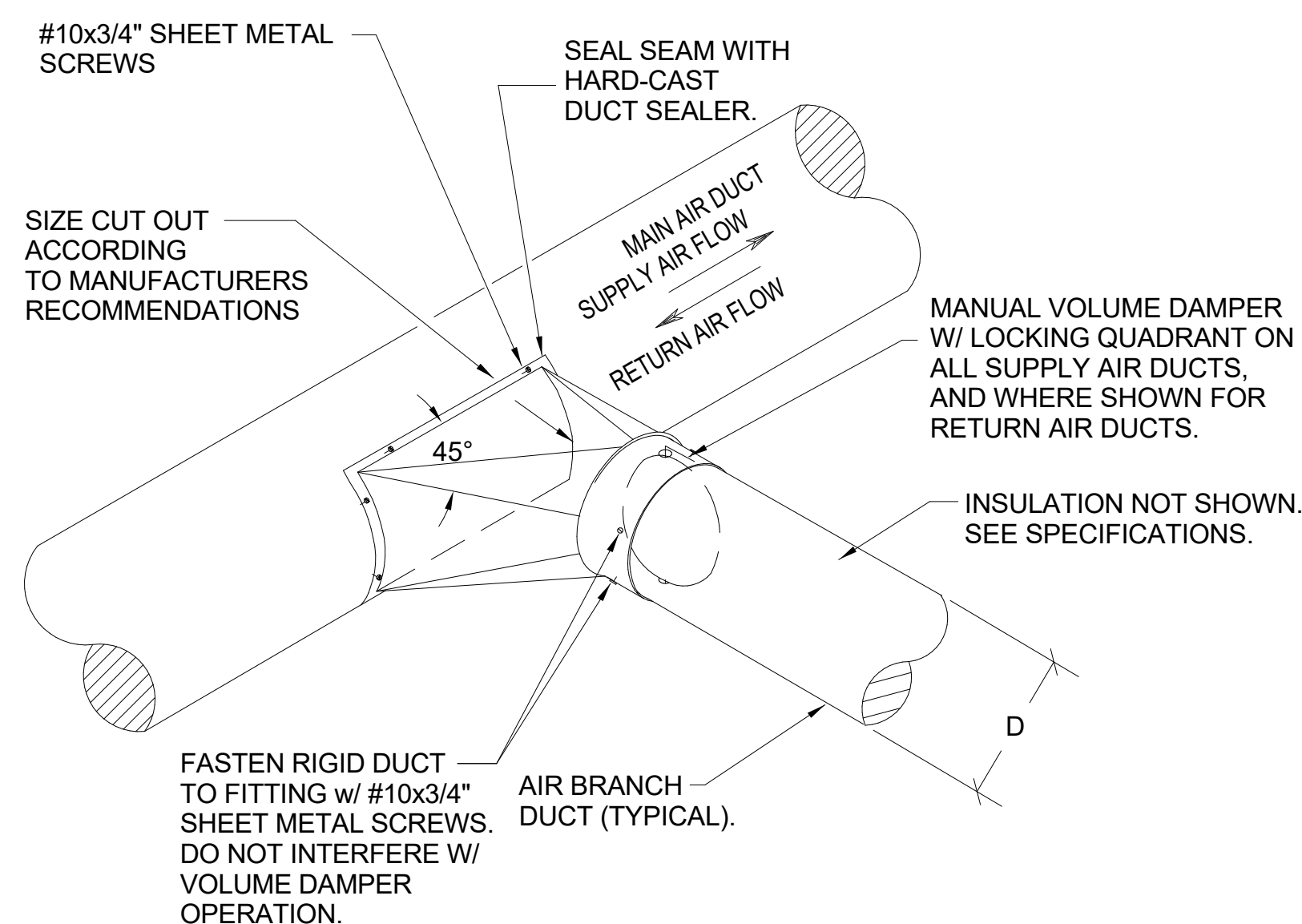
**KEY PLAN**

1" = 40'-0"

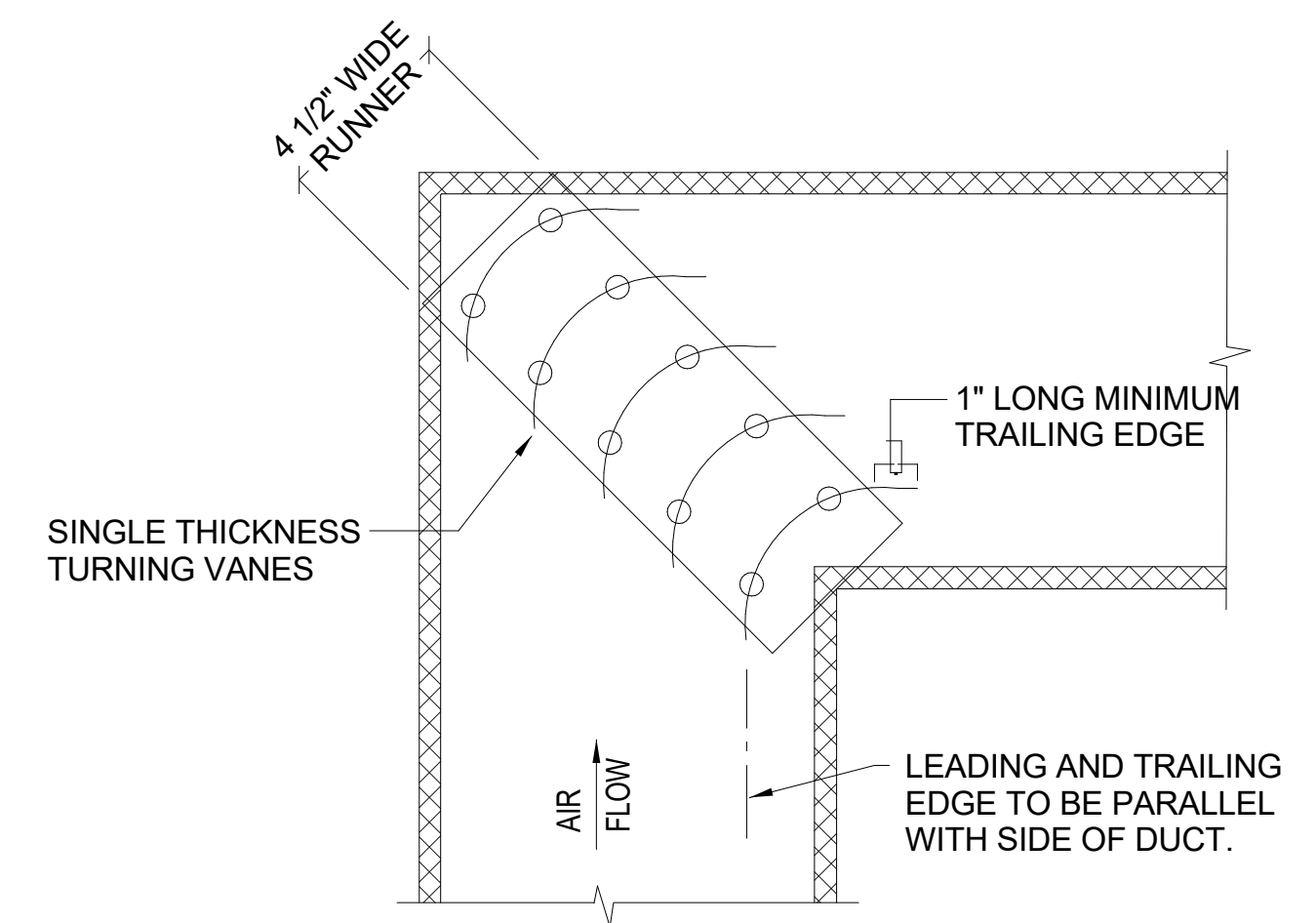


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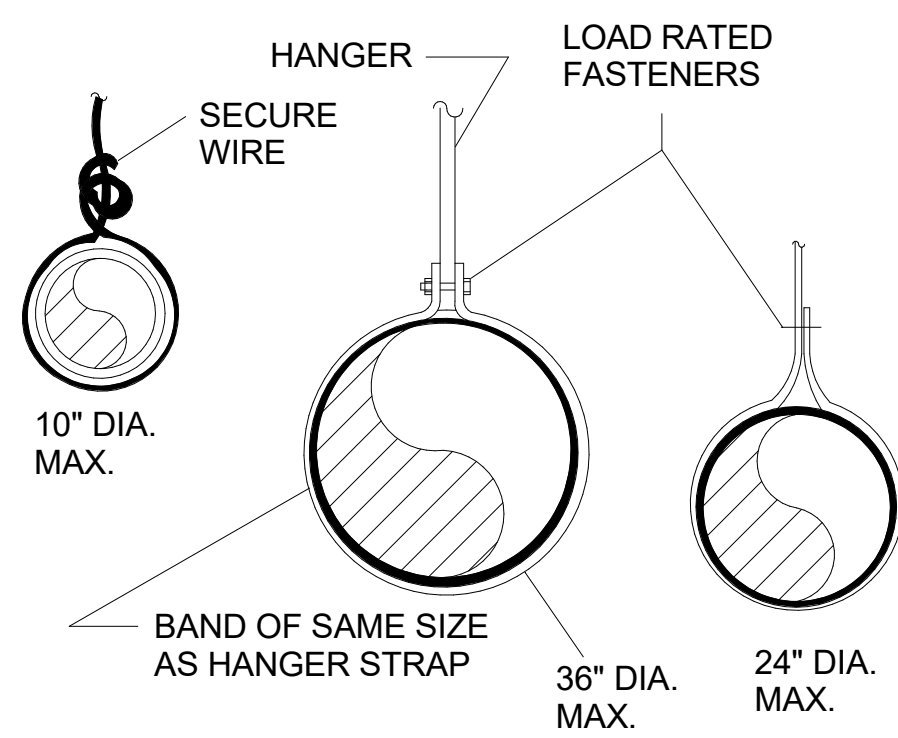




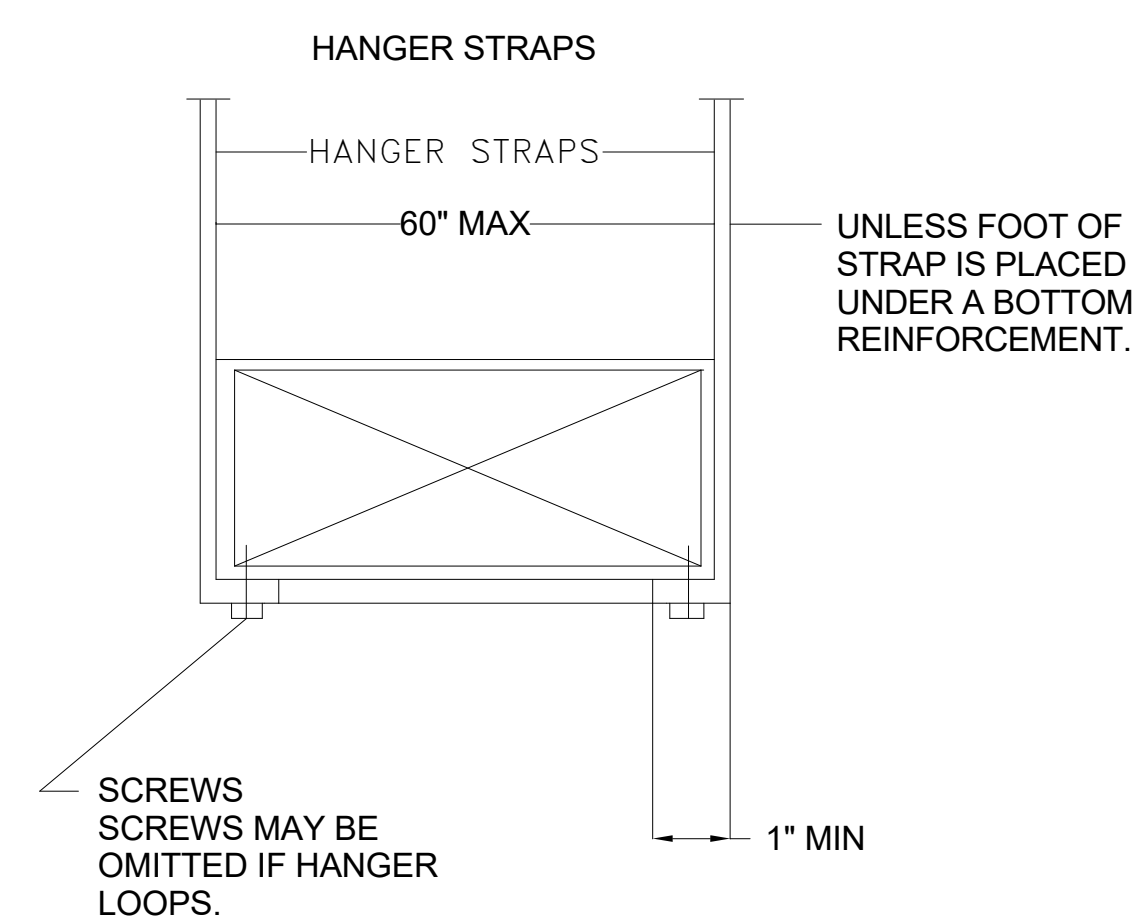
**1 ROUND-TO-ROUND DUCT CONSTRUCTION DETAIL**  
SCALE: NONE



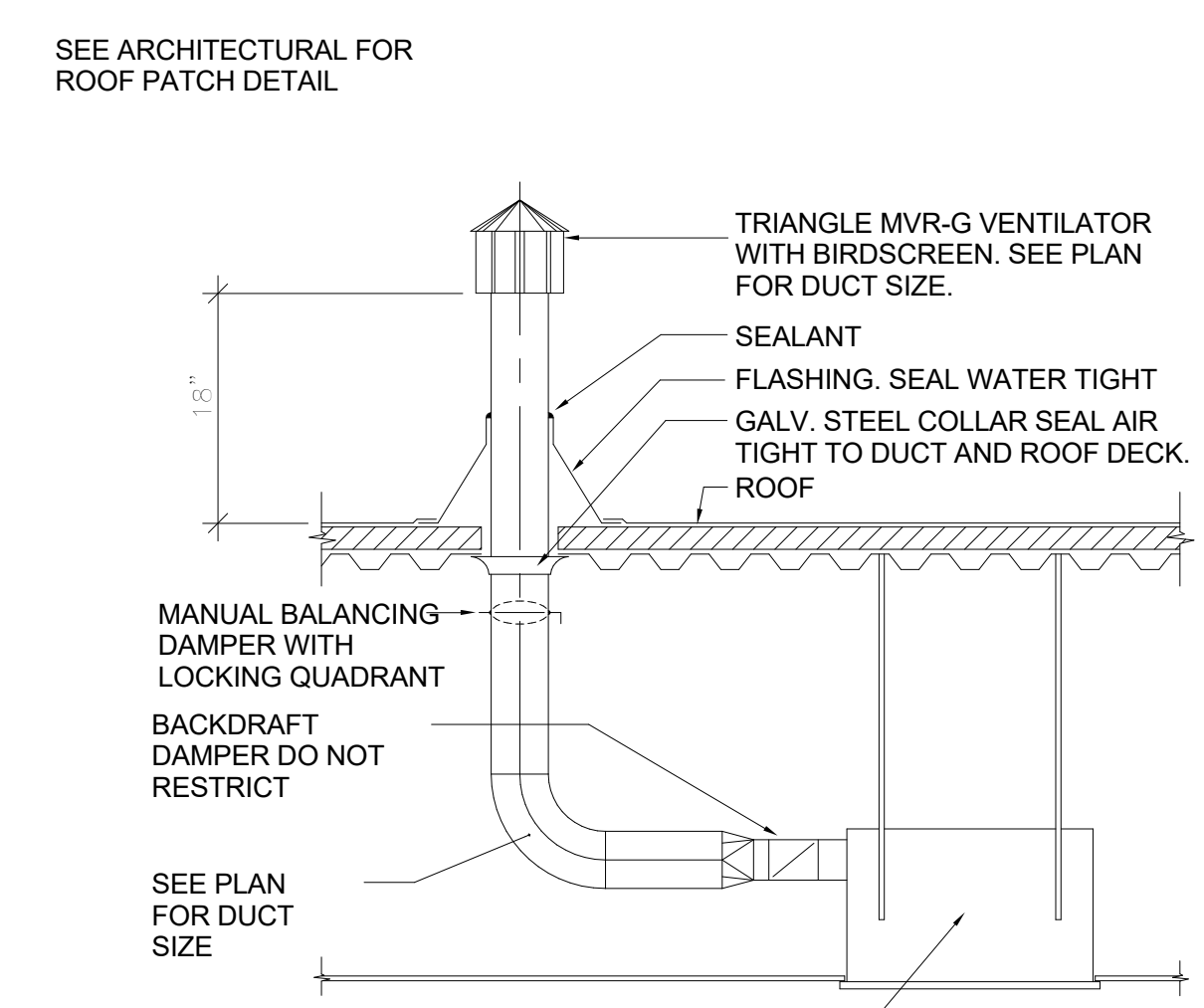
**2 SINGLE THICKNESS TURNING VANE DETAIL**  
SCALE: NONE



**3 DUCT SUPPORTS**  
SCALE: NONE



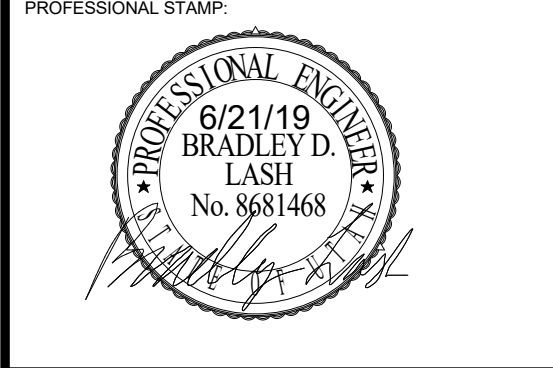
**4 DUCT SUPPORTS**  
SCALE: NONE



**5 CEILING EXHAUST FAN DETAIL**  
SCALE: NONE

**NOTE:**  
EXHAUST FAN SUPPORT FROM ROOF STRUCTURE INDEPENDENT OF SUSPENDED CEILING

ARCHITECT'S INFORMATION:  
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PROFESSIONAL STAMP:  
CODE OFFICIAL STAMP:

PROJECT NAME:  
**2019 DRAPER CITY HALL UPPER LEVEL REMODEL**  
1020 PIONEER ROAD  
DRAPER, UTAH 84020

REVISIONS:

NO.	DATE	DESCRIPTION
1	06/21/19	CONSTRUCTION BID SET

ISSUED:

NO.	DATE	DESCRIPTION
1	06/21/19	CONSTRUCTION BID SET

OWNER PROJECT #:  
SPE PROJECT #: 19-38  
DRAWN BY: JBH  
CHECKED BY: BL  
DESIGNED BY: DB

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SHEET TITLE:  
**MECHANICAL DETAILS**

SHEET NUMBER:  
**ME501**

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DIFFUSER AND GRILLE SCHEDULE												
TAG	MAX FLOW	FACE SIZE		NECK SIZE		CEILING TYPE	BLOW PATTERN	THROW @ 50 FPM	MAX NC	MANUF & MODEL	SCHEDULE NOTES	
		LENGTH	WIDTH	LENGTH/DIAMETER	WIDTH							
D-1	325 CFM	24"	24"	8"	0"	LAY-IN	4 WAY	10'	25	PRICE SPD	NOTES 1,3,4	
SG-1	425 CFM	14"	10"	12"	8"	DUCT MTD	1 WAY	40'	26	PRICE RCG	NOTES 2,3,5	

1. SHALL BE PRICE SPD OR APPROVED EQUAL.
2. SHALL BE PRICE RCG OR APPROVED EQUAL.
3. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
4. FINISH SHALL BE STANDARD WHITE.
5. FINISH SHALL BE SPECIFIED BY ARCHITECT.

EXHAUST FAN SCHEDULE													
TAG		AREA SERVED	CFM	ESP	ELECTRICAL					SONES	OPERATING WEIGHT	MANUF & MODEL	SCHEDULE NOTES
TYPE	#				VOLTAGE	PHASE	FREQUENCY	RPM	WATTS				
EF	1	ADA UNISEX 309	75 CFM	0.38 in-wg	120 V	1	60 Hz	884	31 W	1.5	15 lb	COOK GC-148	NOTE 1
EF	2	UNISEX T.R. 308	75 CFM	0.38 in-wg	120 V	1	60 Hz	884	31 W	1.5	15 lb	COOK GC-148	NOTE 1
EF	3	JAN. 307	75 CFM	0.38 in-wg	120 V	1	60 Hz	884	31 W	1.5	15 lb	COOK GC-148	NOTE 1
EF	4	ADA UNISEX SHOWER 305	75 CFM	0.38 in-wg	120 V	1	60 Hz	884	31 W	1.5	15 lb	COOK GC-148	NOTE 1
EF	5	UNISEX SHOWER 304	75 CFM	0.38 in-wg	120 V	1	60 Hz	884	31 W	1.5	15 lb	COOK GC-148	NOTE 1
EF	6	UNISEX SHOWER 303	75 CFM	0.38 in-wg	120 V	1	60 Hz	884	31 W	1.5	15 lb	COOK GC-148	NOTE 1
EF	7	UNISEX LOCKER AREA 302	125 CFM	0.38 in-wg	120 V	1	60 Hz	1093	41 W	3	15 lb	COOK GC-166	NOTE 2

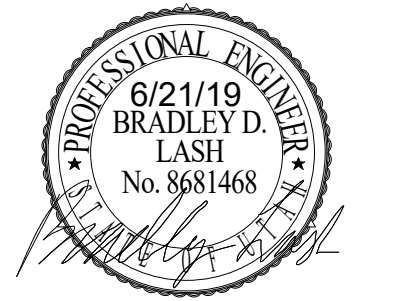
1. INTERLOCK FAN WITH SWITCH IN RESTROOM. PROVIDE 15 MINUTE TIME DELAY.
2. RUN CONTINUOUSLY DURING OCCUPIED HOURS.

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UPPER LEVEL REMODEL**

1020 PIONEER ROAD  
DRAPER, UTAH 84020

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 SPE PROJECT #: 18-38  
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SHEET TITLE:  
**MECHANICAL SCHEDULES**

SHEET NUMBER:  
**ME601**



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1

2

3

4

5

PLUMBING LEGEND			
MEANING	SYMBOL OR ABBREVIATION	MEANING	SYMBOL OR ABBREVIATION
HOT WATER LINE	— HW —	WALL CLEANOUT	WCO
COLD WATER LINE	— CW —	CLEANOUT	CO
HOT WATER RECIRCULATING LINE	— HWREC —	CLEANOUT TO GRADE	COTG
VENT LINE	— V —	FLOOR CLEANOUT	FCO
WASTE LINE	— SS —	BALL VALVE	Φ
GAS LINE	G	UNION	—  —
VENT THRU ROOF	VTR	CONNECTION TO EXISTING PIPING	⊕
UNDER FLOOR	UF	REGULATOR	Ⓜ
SANITARY SEWER	SS	SOFT WATER	SW
PRIMARY ROOF DRAIN	PRD	SECONDARY ROOF DRAIN	SRD

**PLUMBING GENERAL NOTES**

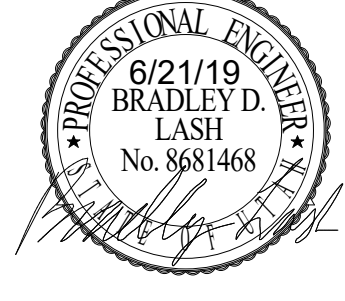
- G-1** - ALL PLUMBING SHALL BE INSTALLED AND CONFORM TO THE 2015 EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.
  - G-2** - ALL PIPING MATERIALS SHALL MEET ALL REQUIREMENTS OF IPC AND LOCAL AUTHORITY. PLASTIC PIPING SHALL BE ALLOWED ONLY WHERE ALLOWED BY CODE. PLASTIC PIPING SHALL NOT BE ROUTED THROUGH RETURN AIR PLENUMS OR OTHER AREAS PROHIBITED BY THE IMC, IPC, OR NFPA CODES OR BY LOCAL AUTHORITY.
  - G-3** - GAS PIPING INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH GAS COMPANY REGULATIONS, NFPA CODE REQUIREMENTS, AND LOCAL AUTHORITY.
  - G-4** - ALL MATERIALS SHALL BE NEW AND SHALL BE DOMESTIC MADE UNLESS SPECIFICALLY APPROVED OTHERWISE IN WRITING BY ARCHITECT OR OWNER.
  - G-5** - PROVIDE VACUUM BREAKERS AND BACK FLOW PREVENTERS WHERE REQUIRED BY CODE OR WHERE THERE MAY BE ANY POSSIBLE CHANGE FOR CROSS CONTAMINATION. PREVENTERS SHALL BE INSTALLED IN ACCORDANCE WITH UTAH CODE.
  - G-6** - ALL PLUMBING INFORMATION IS NOT LIMITED TO THE PLUMBING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING SPECIFICATIONS, ARCHITECTURAL DRAWING, STRUCTURAL DRAWINGS, MECHANICAL DRAWINGS, AND ELECTRICAL DRAWINGS.
  - G-7** - THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWING, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL PIPING SHALL BE CHECKED AND COORDINATED WITH THE SPECIFICATIONS, ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
  - G-8** - COORDINATE ALL PIPING AND PLUMBING EQUIPMENT WITH ALL OTHER TRADES AND/OR CONTRACTORS PRIOR TO INSTALLATION.
  - G-9** - ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARCHITECT/ENGINEER SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.
  - G-10** - GAS LINE FITTINGS SHALL BE STANDARD WELD FITTINGS WITH TAPERED REDUCERS. DO NOT USE VALVES, UNIONS, OR AUTO CONTROLS IN GAS LINES ROUTED IN INACCESSIBLE CONCEALED SPACES.
  - G-11** - ALL WATER SYSTEMS SHALL MEET THE REQUIREMENTS OF ANS/NSF STANDARD 61 SECTION 9 (1998), CONCERNING METAL CONTAMINANTS IN THE WATER SYSTEM.
  - G-12** - WATER PIPING SHALL NOT BE ROUTED IN OUTSIDE WALLS OR ON EXTERIOR SIDE OF BUILDING INSULATION ENVELOPE.
  - G-13** - WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ALL WATER LINES WITH QUICK OPEN OR QUICK CLOSE VALVES.
- WATER HAMMER ARRESTOR SCHEDULE:**  
 TYPE A 1-11 FIXTURE UNITS  
 TYPE B 12-32 FIXTURE UNITS  
 TYPE C 33-60 FIXTURE UNITS  
 TYPE D 61-113 FIXTURE UNITS
- G-14** - ALL PIPING, MATERIALS, ETC. SHALL BE NEW AND DOMESTIC MADE UNLESS SPECIFICALLY AUTHORIZED IN WRITING PRIOR TO BID.

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CODE OFFICIAL STAMP:

PROJECT NAME:

**2019 DRAPER CITY HALL  
 UPPER LEVEL REMODEL**

1020 PIONEER ROAD  
 DRAPER, UTAH 84020

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SPE PROJECT #: 18-38

DRAWN BY: JBH

CHECKED BY: BL

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SHEET TITLE:

**PLUMBING  
 LEGEND AND  
 GENERAL NOTES**

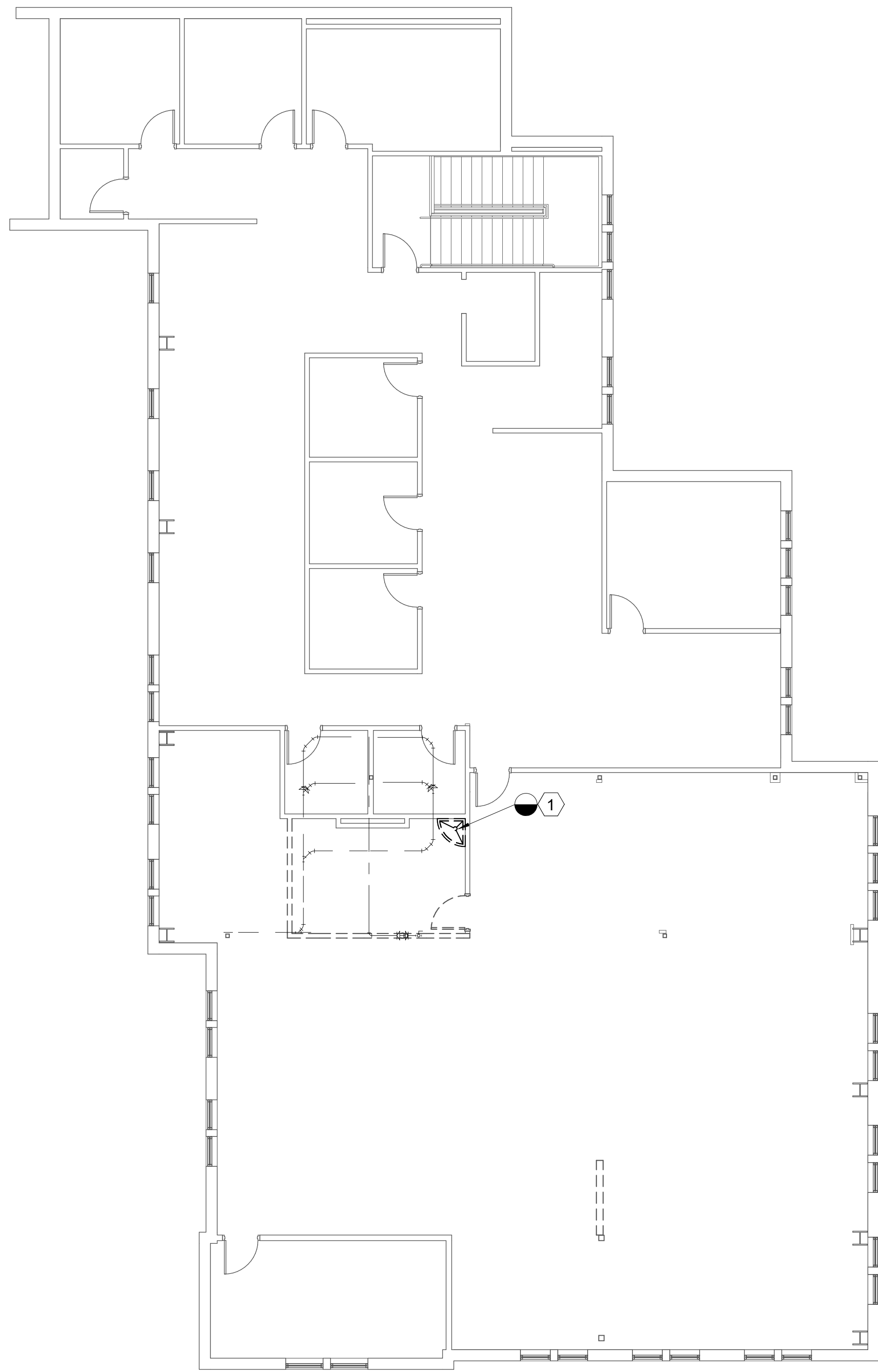
SHEET NUMBER:

**PG001**



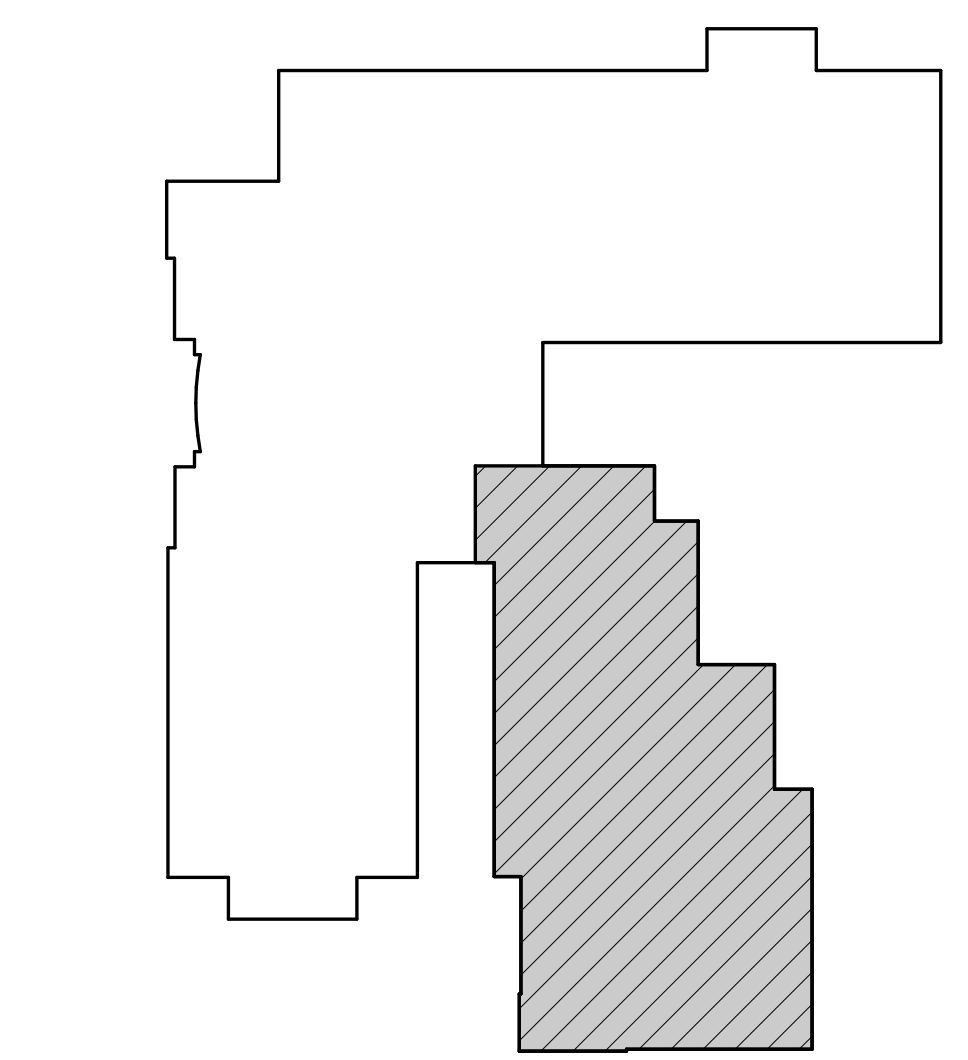
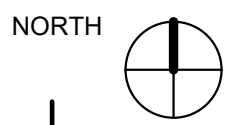
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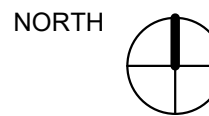
**1 PLUMBING UPPER LEVEL - DEMO**

1/8" = 1'-0"



**KEY PLAN**

1" = 40'-0"



**SHEET NOTES**

- 1 DEMOLISH SERVICE SINK. DEMOLISH HOT, COLD, WASTE, AND VENT BACK TO MAIN AND CAP, FIELD VERIFY.



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SHEET TITLE:

**PLUMBING  
 UPPER LEVEL -  
 DEMO**

SHEET NUMBER:

**PD101**



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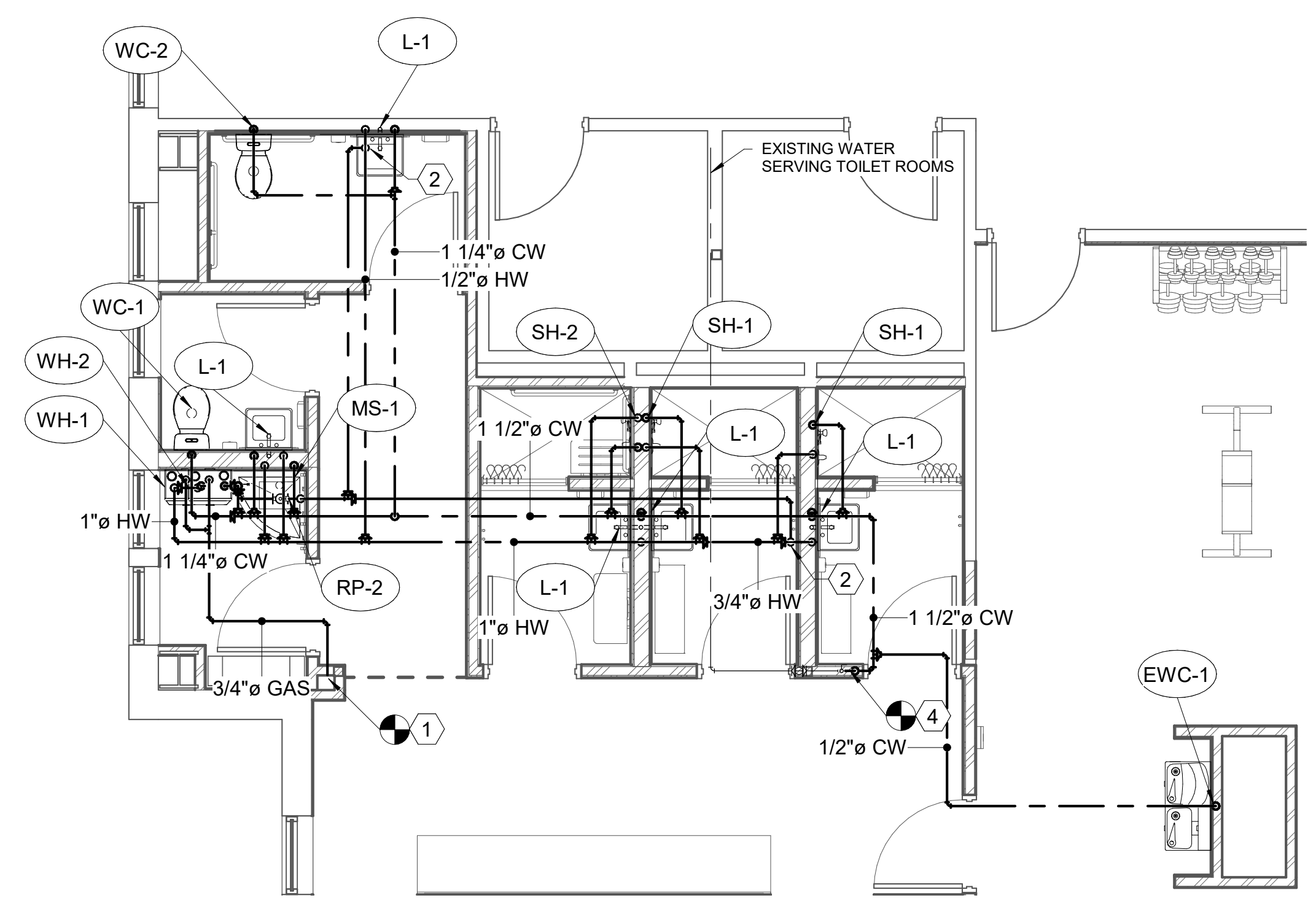


**SHEET NOTES**

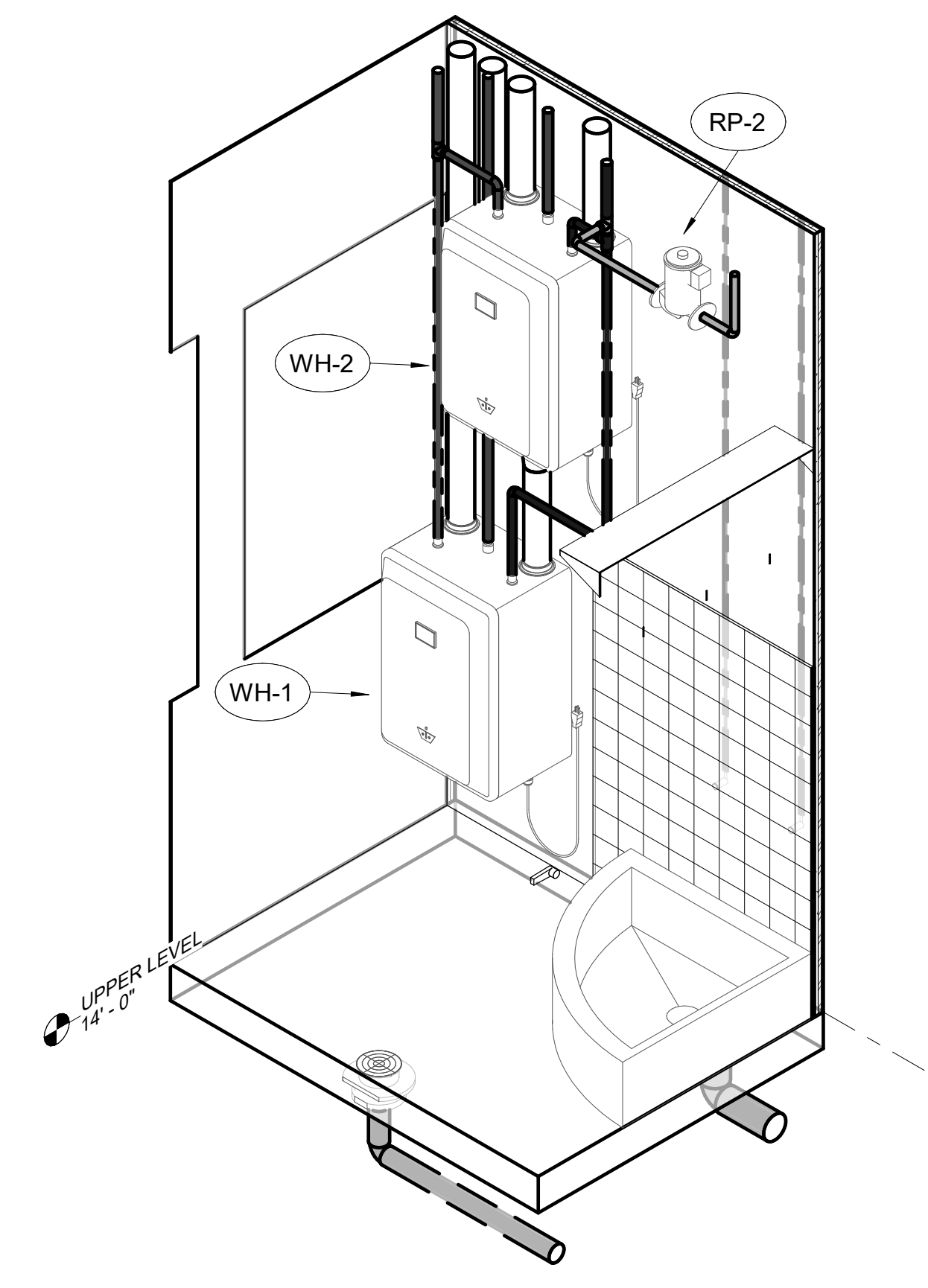
- CONNECT TO EXISTING 1" NATURAL GAS AT 2 PSI. FIELD VERIFY EXACT LOCATION.
- CONNECT HOT WATER RECIRCULATION LINE WITH-IN 3 FEET OF LAV SUPPLY STOP.
- CONNECT TO EXISTING 4" Ø SANITARY SEWER. FIELD VERIFY EXACT LOCATION.
- CONNECT TO EXISTING 1 1/4" DOMESTIC WATER VALVE INTENDED FOR FUTURE CONNECTION, FIELD VERIFY LOCATION.

**PLUMBING GENERAL NOTES**

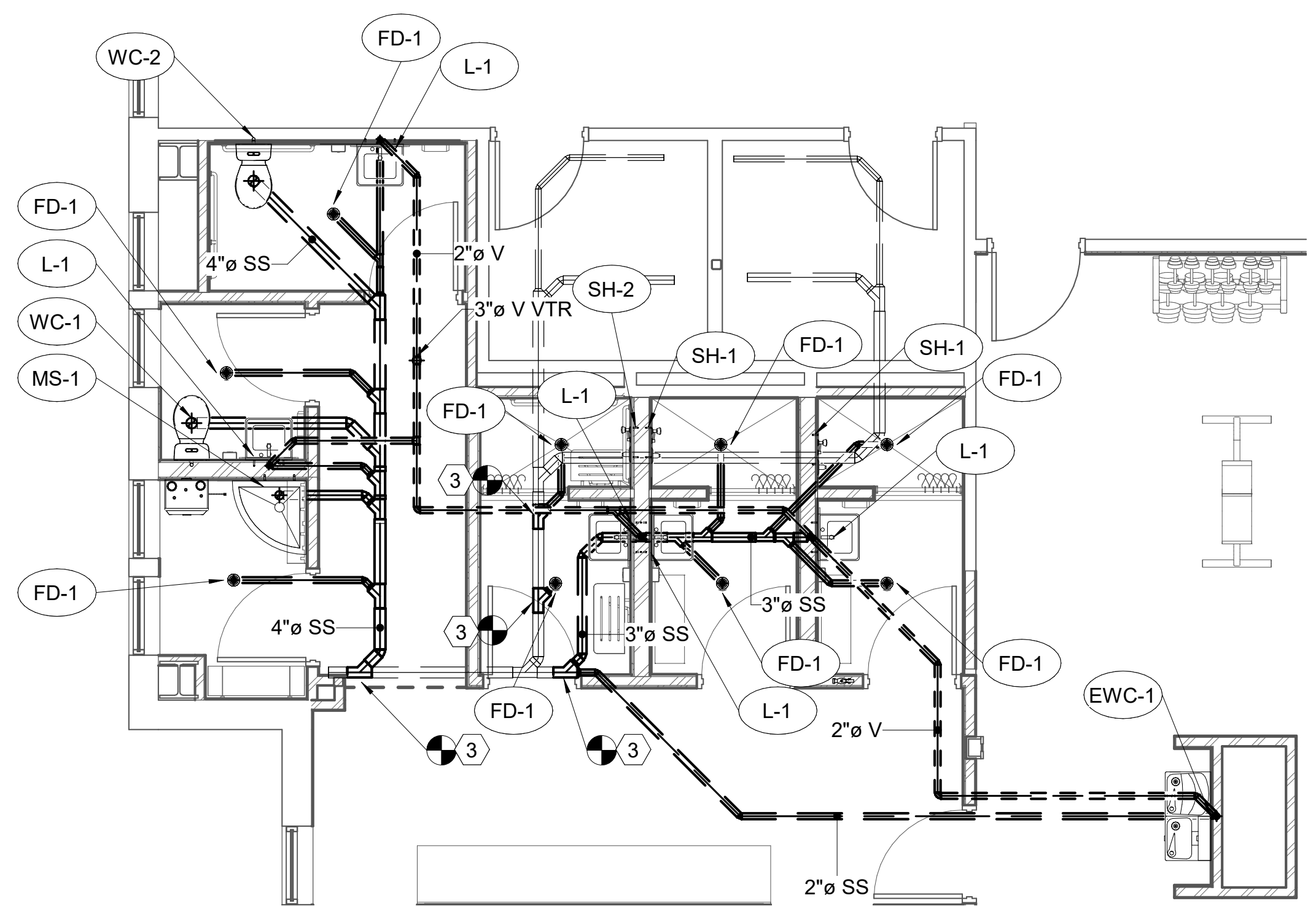
- ISOMETRICS ARE FOR GENERAL LAYOUT ROUTING AND NOT FOR PART COUNT OR BIDDING PURPOSE. CONTRACTOR REQUIRED TO PROVIDE ALL PIPING, BENDS, OFFSETS AS NEEDED FOR THE PROJECT.



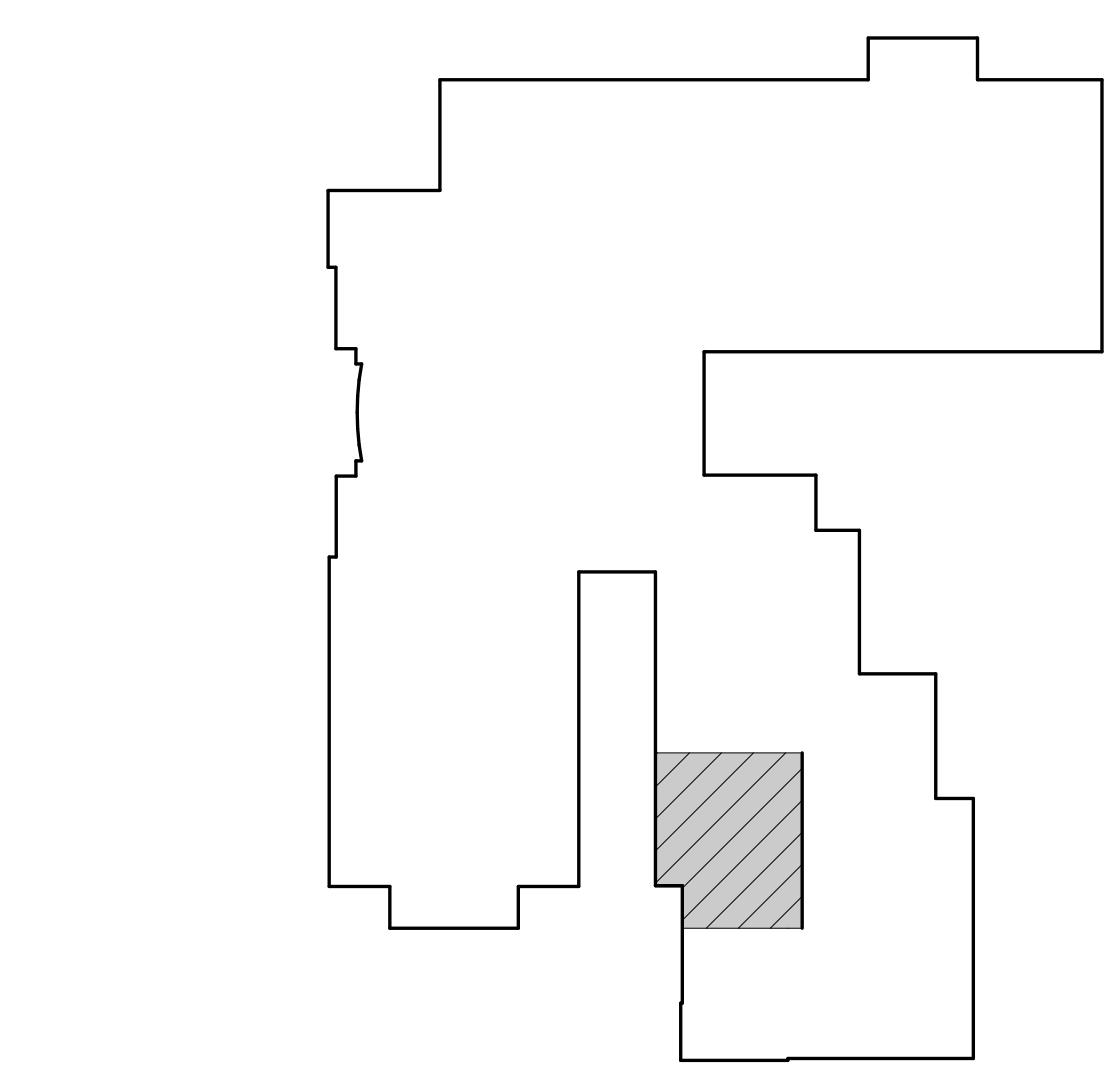
**1 ENLARGED PLUMBING DOM WATER UPPER LEVEL**  
1/4" = 1'-0"



**3 WATER HEATER ISOMETRIC**



**2 ENLARGED PLUMBING WASTE AND VENT UPPER LEVEL**  
1/4" = 1'-0"



**KEY PLAN ENLARGED PLUMBING**  
1" = 40'-0"

ARCHITECT'S INFORMATION

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CODE OFFICIAL STAMP

PROJECT NAME

**2019 DRAPER CITY HALL  
UPPER LEVEL REMODEL**

1020 PIONEER ROAD  
DRAPER, UTAH 84020

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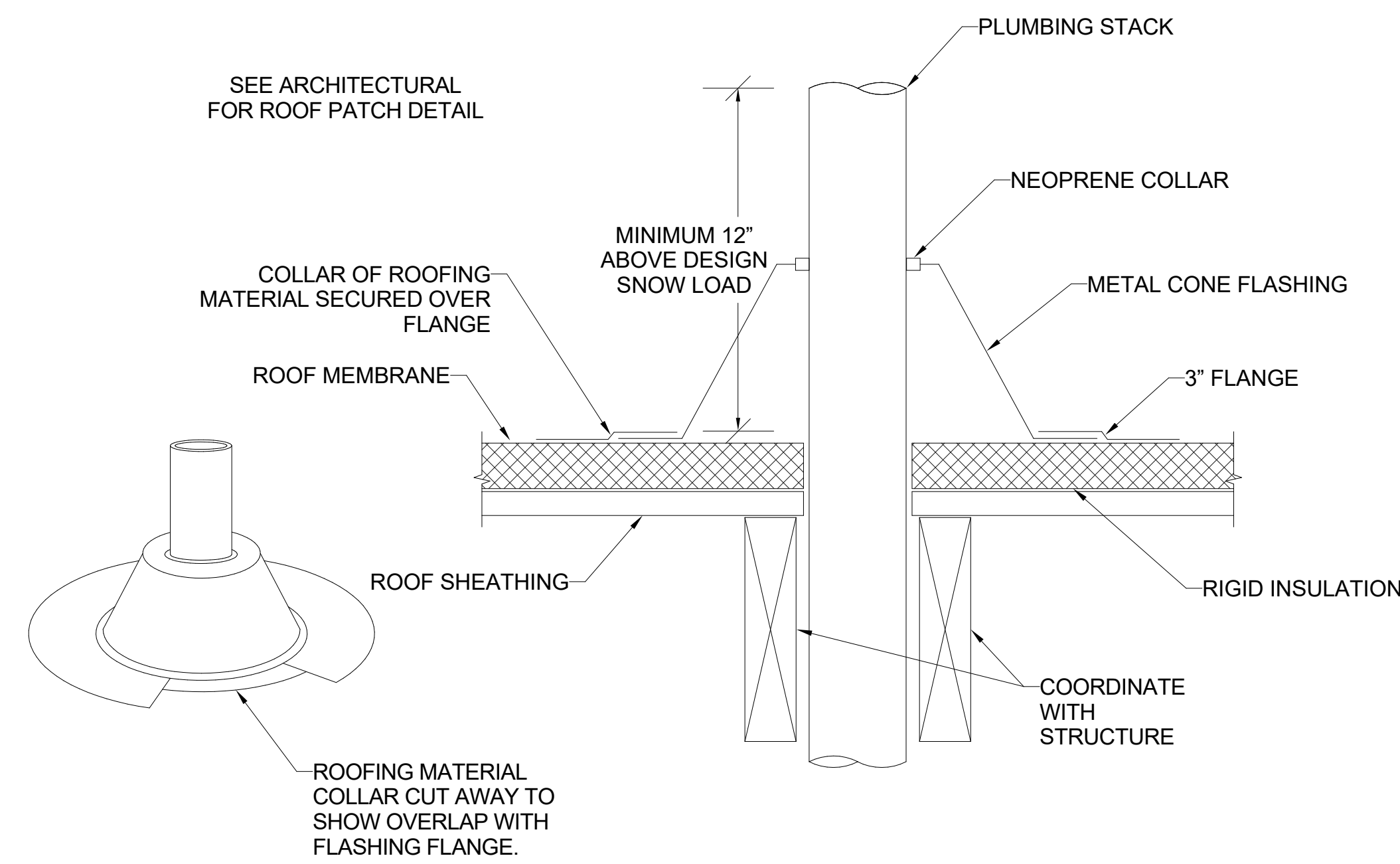
SHEET TITLE

**ENLARGED  
PLUMBING  
FLOOR PLANS**

SHEET NUMBER

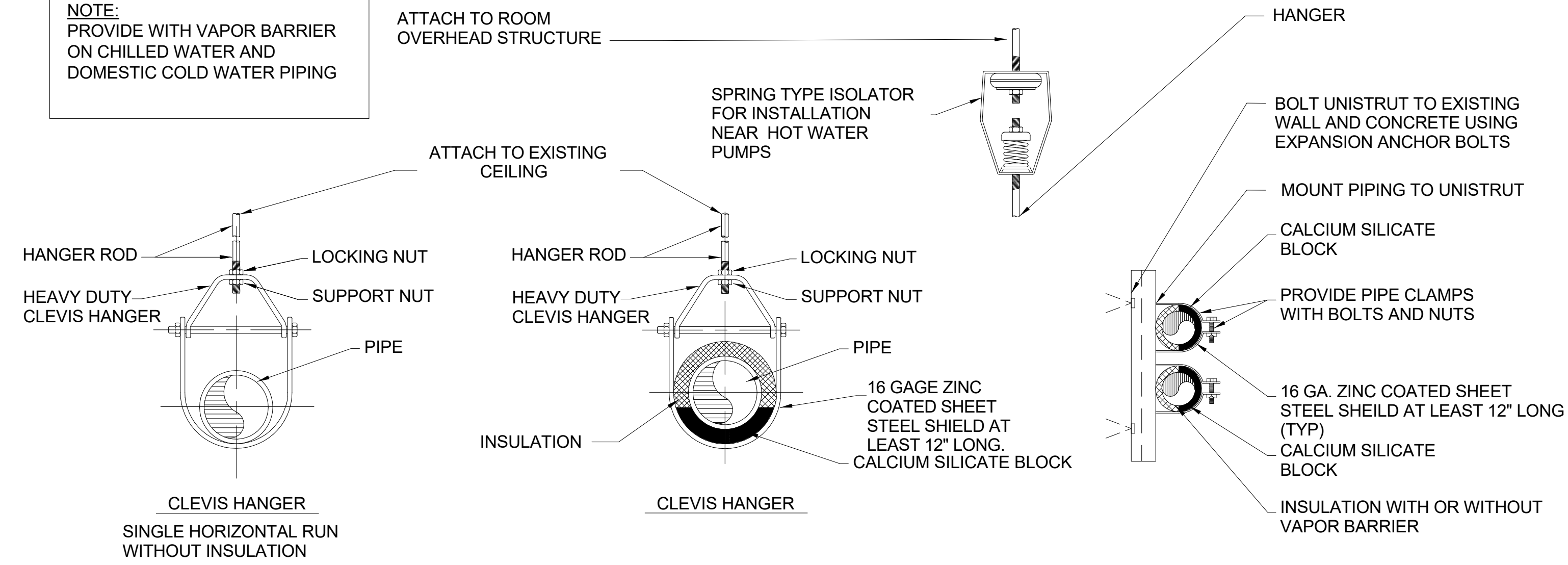
**PE401**

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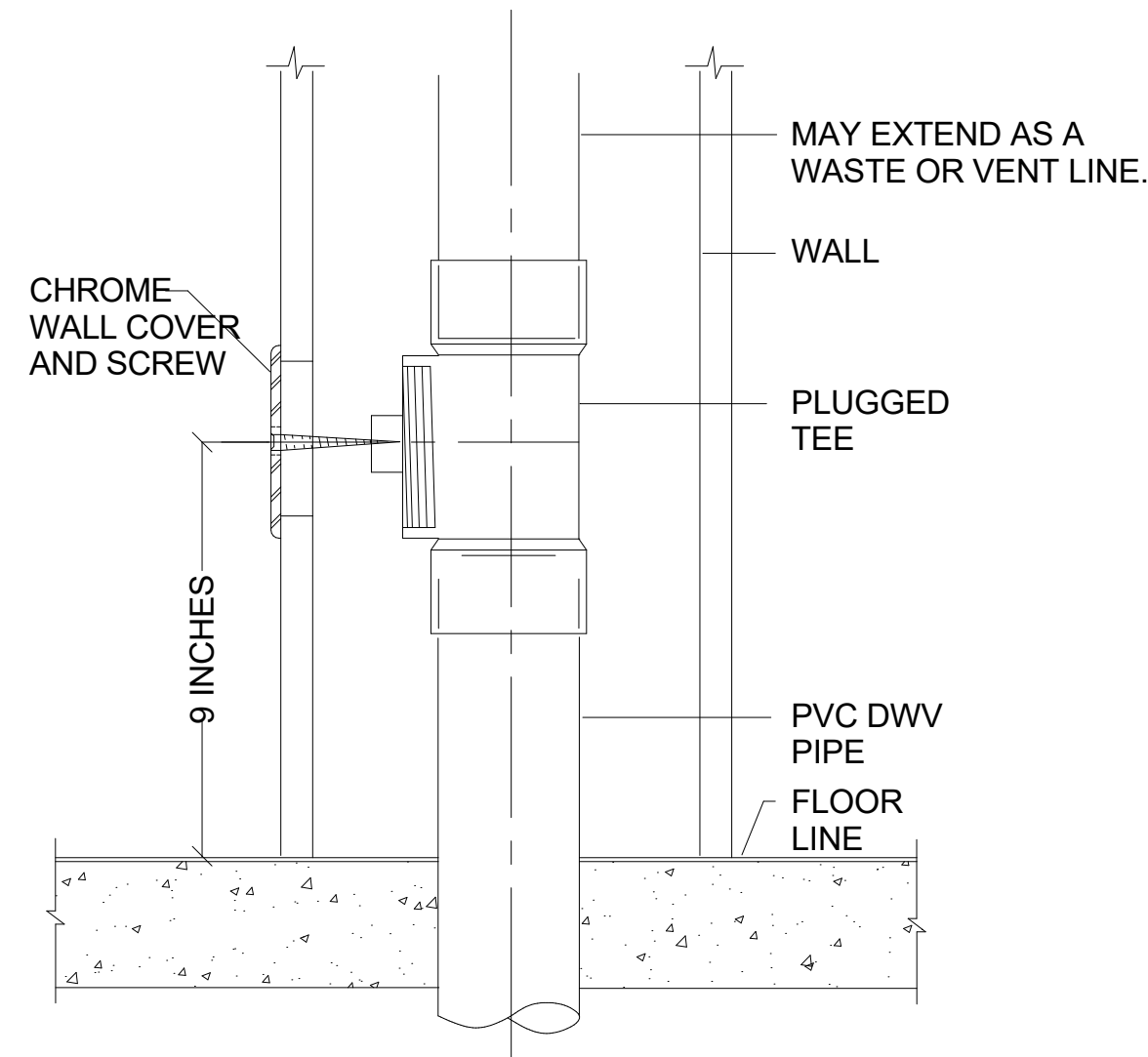


**1 VENT THRU ROOF DETAIL**  
SCALE: NONE

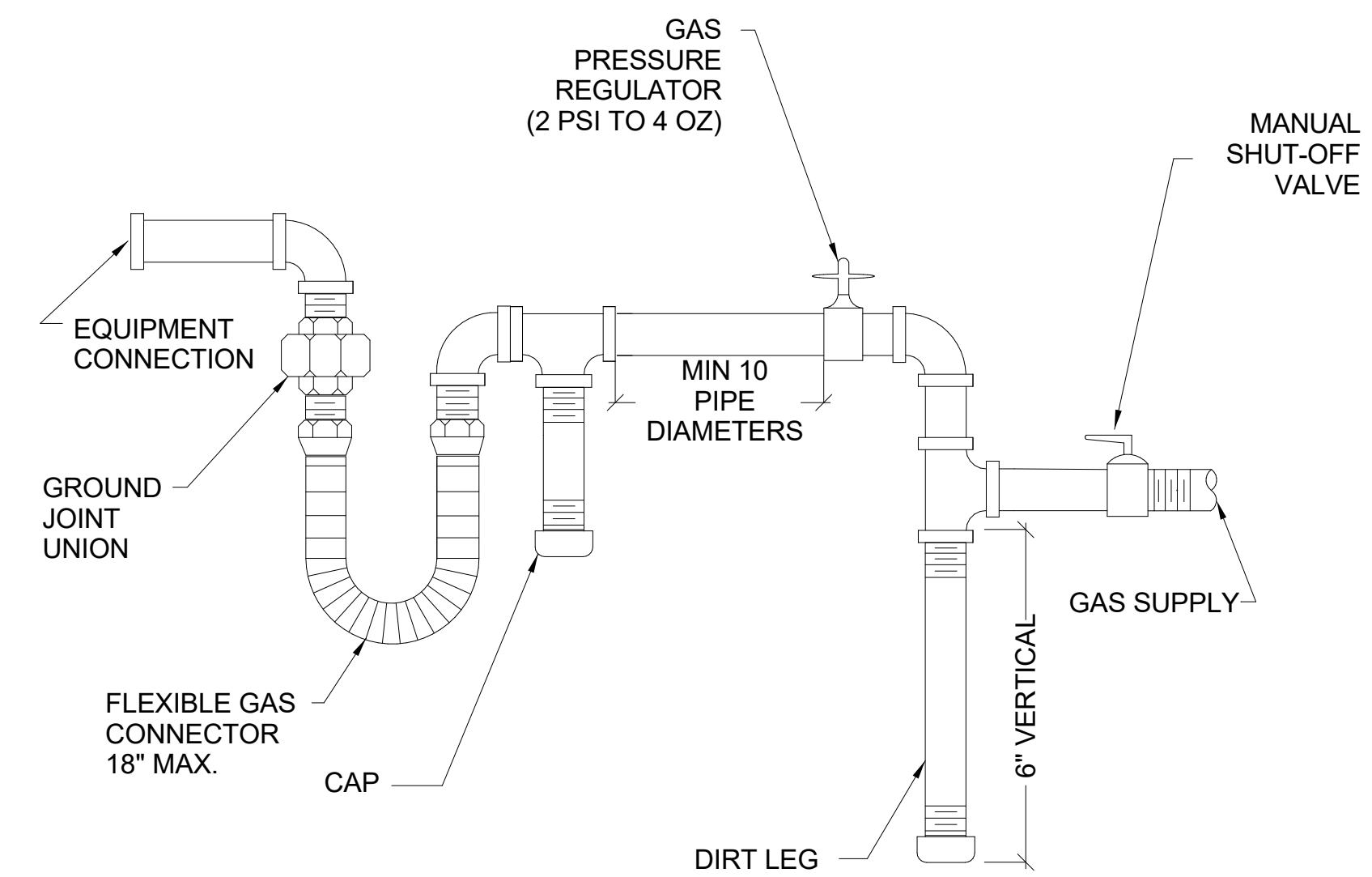
**NOTE:**  
PROVIDE WITH VAPOR BARRIER  
ON CHILLED WATER AND  
DOMESTIC COLD WATER PIPING



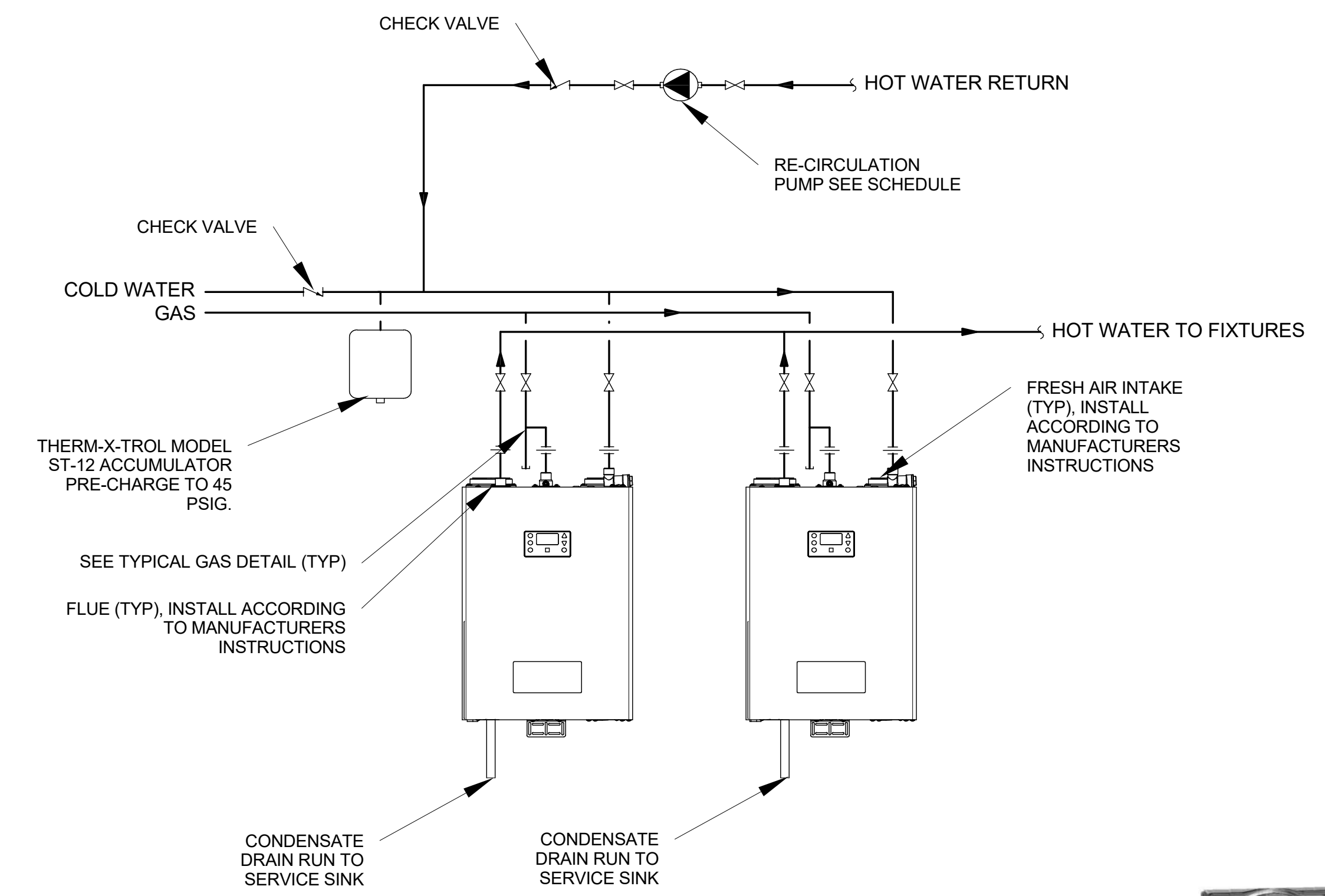
**2 PIPE HANGER DETAIL**



**3 WALL CLEAN-OUT DETAIL**  
SCALE: NONE



**4 GAS LINE CONNECTION DETAIL**  
SCALE: NONE



**5 WALL MOUNTED TANKLESS WATER HEATER DETAIL**  
SCALE: NONE

ARCHITECT'S INFORMATION

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SHEET TITLE:  
**PLUMBING  
DETAILS**

SHEET NUMBER:  
**PE501**

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PLUMBING FIXTURE SCHEDULE								(TAG)
FIXTURE NUMBER	FIXTURE	PLUMBING PIPE SIZES					REMARKS	
		TRAP	WASTE	VENT	COLD WATER	HOT WATER		
EWC-1	ELECTRIC WATER COOLER WITH BOTTLE FILLER	1 1/2"	1 1/2"	1 1/2"	1/2"	0"	ELECTRIC BI-LEVEL FOUNTAIN. ELKAY EZH2O LZSTL8 OR EQUAL.	
FD-1	FLOOR DRAIN	2"	2"	1 1/2"	0"	0"	PROVIDE WITH TRAP GUARD. WATTS FD-100-A OR EQUAL.	
L-1	LAVATORY	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	WALL MOUNTED. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. PROFLO PF5514WH WITH MOEN CA8301 OR EQUAL.	
MS-1	MOP SINK	3"	3"	2"	3/4"	3/4"	CORNER MOUNTED SINK. PROVIDE WITH DRAIN FITTING, SERVICE SINK FAUCET WITH VACUUM BREAKER, HOSE, 3 STATION MOP HOLDER, HOSE HANGER, AND STAINLESS STEEL SPLASH GUARD. KOHLER K6710 OR EQUAL.	
RP-2	RECIRC PUMP	0"	0"	0"	0"	3/4"	PROVIDE B&G PL-55 OR EQUAL WITH BRONZE IMPELLER. 120 V, SINGLE PHASE, 1/6 HP.	
SH-1	SHOWER	2"	2"	1 1/2"	1/2"	1/2"	PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. PROVIDE AMERICAN STANDARD CADET 1674 OR EQUAL WITH ANTI SCALD DEVICE. PROVIDE FLOOR DRAIN AT BASE WITH STAINLESS STEEL GRATE.	
SH-2	ADA SHOWER	2"	2"	1 1/2"	1/2"	1/2"	ADA COMPLIANT. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. PROVIDE SYMMONS S-96-600-B30 OR EQUAL WITH ANTI SCALD DEVICE AND ADJUSTABLE BAR WITH HAND SPRAY. PROVIDE FLOOR DRAIN AT BASE WITH STAINLESS STEEL GRATE.	
WC-1	WATER CLOSET	0"	3"	2"	1"	0"	FLOOR MOUNTED FLUSH VALVE WATER CLOSET. 1.6 GPF. AMERICAN STANDARD NEOLO OR EQUAL WITH BATTERY SENSOR FLUSH VALVE.	
WC-2	WATER CLOSET	0"	3"	2"	1"	0"	ADA COMPLIANT. FLOOR MOUNTED FLUSH VALVE WATER CLOSET. 1.6 GPF. AMERICAN STANDARD NEOLO OR EQUAL WITH BATTERY SENSOR FLUSH VALVE.	

WATER HEATER (GAS) SCHEDULE												(TAG)
EQUIPMENT NUMBER	INPUT (BTU/HR)	OUTPUT (BTU/HR)	MIN / MAX FLOW (GPM)	PRESSURE RATING (PSI)	FLUE	DIMENSIONS			OPERATING WEIGHT	MANUF & MODEL	SCHEDULE NOTES	
						HEIGHT	DEPTH	WIDTH				
WH-1	199,950 Btu/h	185,950 Btu/h	0.6 / 7	150	3 Ø PP	2' - 2"	1' - 3"	1' - 6"	100 lb	INTELLIHOT I200	NOTES 1,2,3,4	
WH-2	199,950 Btu/h	185,950 Btu/h	0.6 / 7	150	3 Ø PP	2' - 2"	1' - 3"	1' - 6"	100 lb	INTELLIHOT I200	NOTES 1,2,3,4	

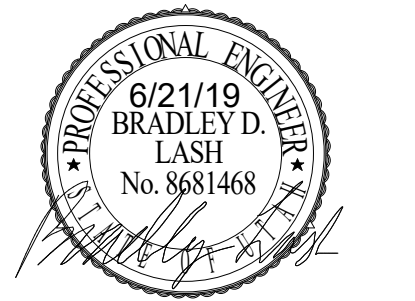
- SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
- 120/1/60 - 5 AMPS
- HIGH ALTITUDE MODEL.
- PROVIDE 150 PSI SAFETY VALVE AS REQUIRED BY CODE.

ARCHITECT'S INFORMATION:



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PROFESSIONAL STAMP:



6/21/19  
 BRADLEY D. LASH  
 No. 8681468

CODE OFFICIAL STAMP:

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1020 PIONEER ROAD  
 DRAPER, UTAH 84020

REVISIONS:

NO.	DATE	DESCRIPTION

ISSUED:

NO.	DATE	DESCRIPTION
1	06/21/19	CONSTRUCTION BID SET

OWNER PROJECT #:  
 SPE PROJECT #: 18-38  
 DRAWN BY: JBH  
 CHECKED BY: BL  
 DESIGNED BY: DB

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SHEET TITLE:  
**PLUMBING SCHEDULES**

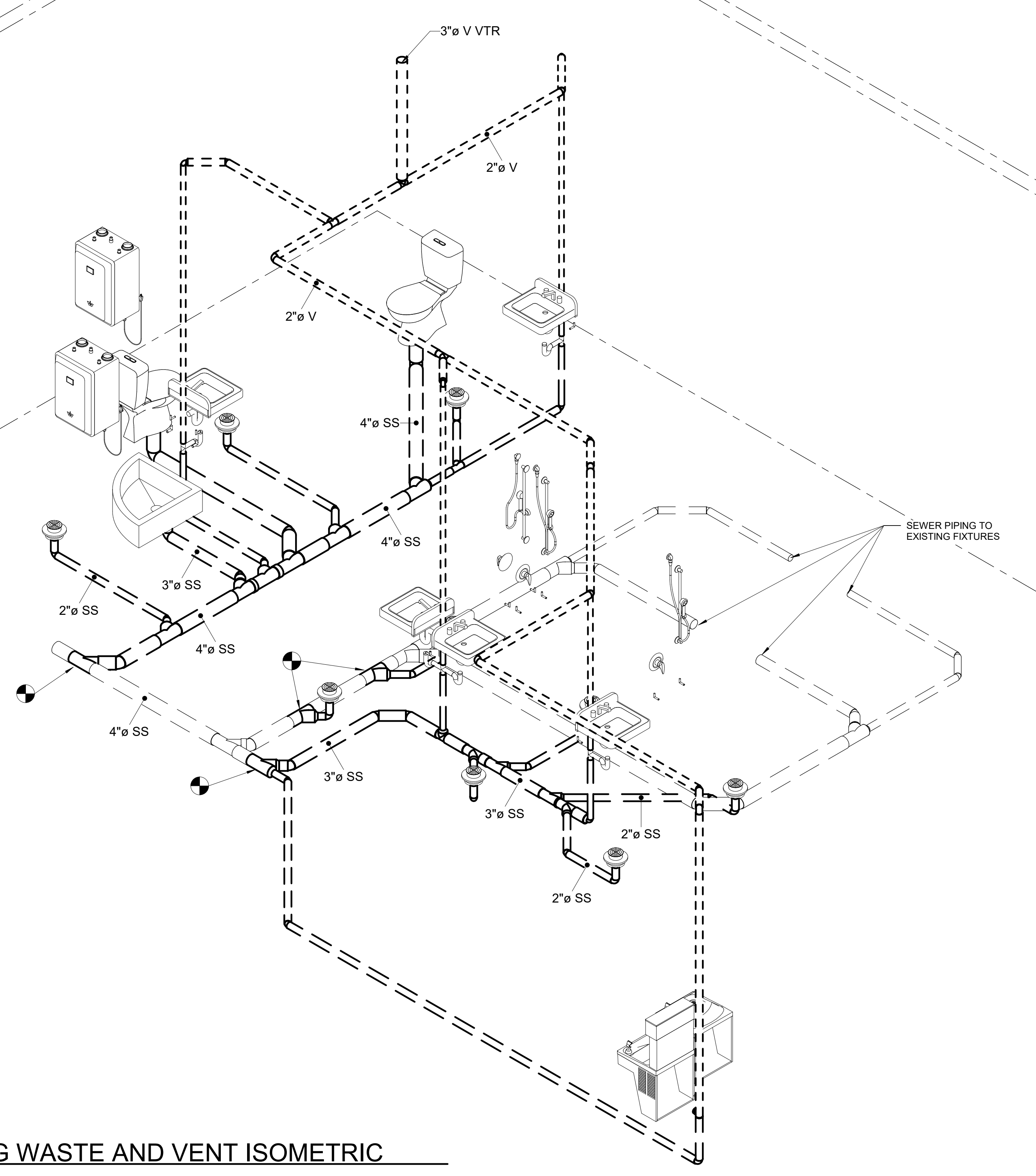
SHEET NUMBER:  
**PE601**



**WHW ENGINEERING INC.**  
 PROFESSIONAL MECHANICAL ENGINEERING  
 8619 Sandy Parkway Suite 101  
 Sandy, Utah 84070  
 801-466-4021, fax 466-8536  
 Email: excellence@whw-engineering.com

ROOF PLAN  
Roof deck bearing  
2'-6"

UPPER LEVEL  
14'-0"



1 PLUMBING WASTE AND VENT ISOMETRIC

**PLUMBING GENERAL NOTES**

- ISOMETRICS ARE FOR GENERAL LAYOUT ROUTING AND NOT FOR PART COUNT OR BIDDING PURPOSE. CONTRACTOR REQUIRED TO PROVIDE ALL PIPING, BENDS, OFFSETS AS NEEDED FOR THE PROJECT.

ARCHITECT'S INFORMATION:

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Bountiful, Utah 84010  
1.801.298.1368 - 1.801.298.2192  
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www.spe-architect.com

PROFESSIONAL STAMP:

CODE OFFICIAL STAMP:

PROJECT NAME:

**2019 DRAPER CITY HALL  
UPPER LEVEL REMODEL**

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SHEET TITLE:  
**PLUMBING  
ISOMETRICS**

SHEET NUMBER:  
**PE801**



**WHW  
ENGINEERING INC.**  
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Email: excellence@whw-engineering.com



SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
<b>REFERENCE AND LINE SYMBOLS</b>	
	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
	EQUIPMENT INDICATOR.
	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING
	BREAK, ROUND
	NEW LINE: MEDIUM LINE.
	EXISTING TO REMAIN LINE: THIN LINE.
	DEMOLITION LINE: DASHED, MEDIUM LINE
<b>WIRING METHODS</b>	
	WIRING.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
	ADA ACCESS PUSH PLATE
	JUNCTION BOX.
	JUNCTION BOX, CEILING.
	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.
<b>WIRING DEVICES</b>	
	RECEPTACLE, DUPLEX: NEMA 5-20R.
	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF IN USE": NEMA 5-20R.
	RECEPTACLE, DUPLEX, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, QUADRUPLEX: NEMA 5-20R.
	FLUSH FLOOR BOX. "F" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
	SWITCH, DIMMER.
	SWITCH, SINGLE POLE ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, DOUBLE POLE ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, THREE-WAY ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, FOUR-WAY ("X" INDICATES FIXTURES CONTROLLED).
	RECEPTACLE, SINGLE PLEX, WITH USB OUTLET
<b>STRUCTURED CABLING</b>	
	TELEPHONE, WALL MOUNTED ("X" INDICATES QUANTITY OF CABLES).
	OUTLET, DATA COMMUNICATION ("X" INDICATES QUANTITY OF CABLES).
	OUTLET, BUILDING STANDARD COMBINATION TELEPHONE/ DATA COMMUNICATION.
	TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD PAINTED.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
<b>ELECTRICAL POWER AND DISTRIBUTION</b>	
	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
	MOTOR.
	TRANSFORMER (ONE-LINE DIAGRAM).
	TRANSFORMER, CURRENT (ONE-LINE DIAGRAM).
	PANELBOARD (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).
	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
	DISCONNECT SWITCH, FUSED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	ACCESSIBLE DOOR ENTRY PUSH PLATE OPERATOR.
<b>LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS)</b>	
	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
	EMERGENCY.
	NIGHT LIGHT: DO NOT SWITCH.
	EGRESS DIRECTION ARROW (EXIT SIGNS).
	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
	EXIT SIGN: SINGLE FACE; WALL MOUNTED
	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
	EXIT SIGN: DOUBLE FACE; WALL MOUNTED
<b>LIGHTING CONTROL</b>	
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.
	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	VACANCY SENSOR, DUAL TECHNOLOGY, WALL.
	SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
	DIMMER SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
	DIMMER SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
	DIGITAL LIGHTING ROOM CONTROLLER
<b>SECURITY</b>	
	CARD READER.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
<b>FIRE ALARM</b>	
	CONTROL MODULE.
	MONITOR MODULE.
	FIRE ALARM MANUAL PULL STATION.
	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
	MAGNETIC DOOR HOLDER.
	DETECTOR, SMOKE.
	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, HORN/SPEAKER, WEATHERPROOF.
	ALARM, HORN/SPEAKER, ONE ASSEMBLY. SUBSCRIPT INDICATES CANDELA RATING.
	FIRE AND SMOKE DAMPER.
	DETECTOR, CARBON MONOXIDE.
	ALARM, HORN/SPEAKER, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.

DEFINITIONS	
NOTE: ALL DEFINITIONS MAY NOT BE USED.	
INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.	
DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.	
APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.	
FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."	
INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."	
PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."	
INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.	
TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...	

ELECTRICAL SHEET INDEX	
EE-001	SHEET INDEX, SYMBOLS, GENERAL NOTES
EE-701	TYPICAL MOUNTING HEIGHT DETAILS
ED-101	UPPER LEVEL DEMOLITION ELECTRICAL PLAN
EP-101	UPPER LEVEL POWER PLAN
EP-401	ENLARGED UPPER LEVEL POWER PLAN
EP-601	PANEL & EQUIPMENT SCHEDULE
EL-101	UPPER LEVEL LIGHTING PLAN
EL-401	ENLARGED UPPER LEVEL LIGHTING PLAN
EL-601	LIGHTING FIXTURE SCHEDULE

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

GENERAL ELECTRICAL NOTES	
1.	CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC. SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.
2.	OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.
A.	THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
B.	THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
C.	THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.
3.	EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.
4.	SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED, JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
5.	REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.
6.	ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

ARCHITECT'S INFORMATION

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PROFESSIONAL STAMP

DAVID G. HINCKLEY  
 No. 5148728  
 State of Utah

CODE OFFICIAL STAMP

PROJECT NAME:

**2019 DRAPER CITY HALL  
 UPPER LEVEL REMODEL**

1020 PIONEER ROAD  
 DRAPER, UTAH 84020

REVISED:

NO.	DATE	DESCRIPTION
01	06/21/19	CONSTRUCTION BID SET

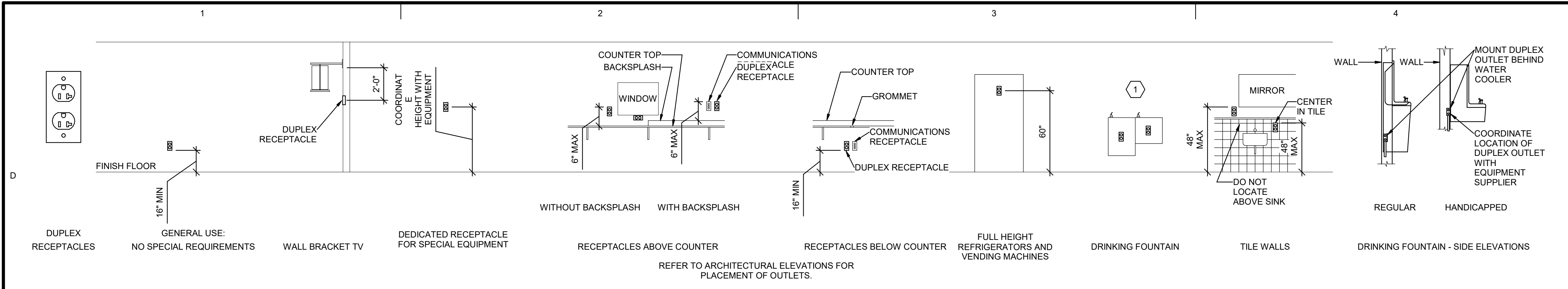
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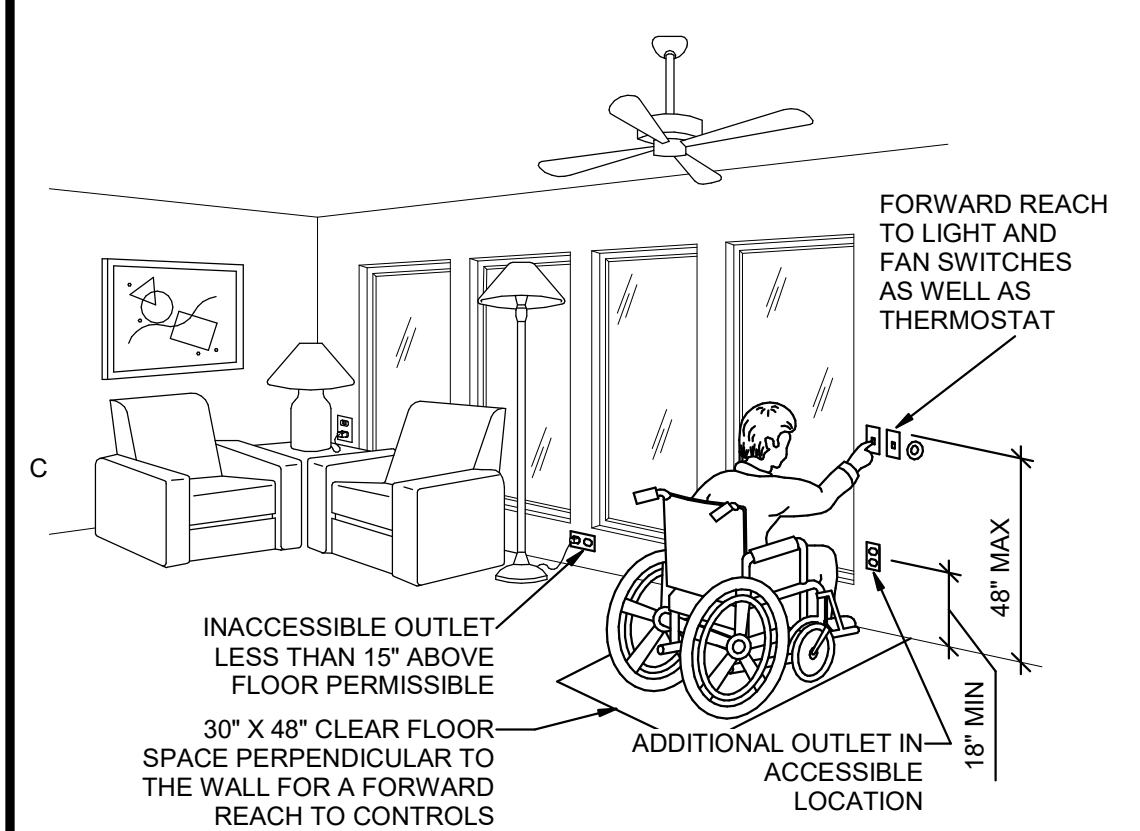
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**SHEET INDEX,  
 SYMBOLS,  
 GENERAL NOTES**

SHEET NUMBER:  
**EE-001**

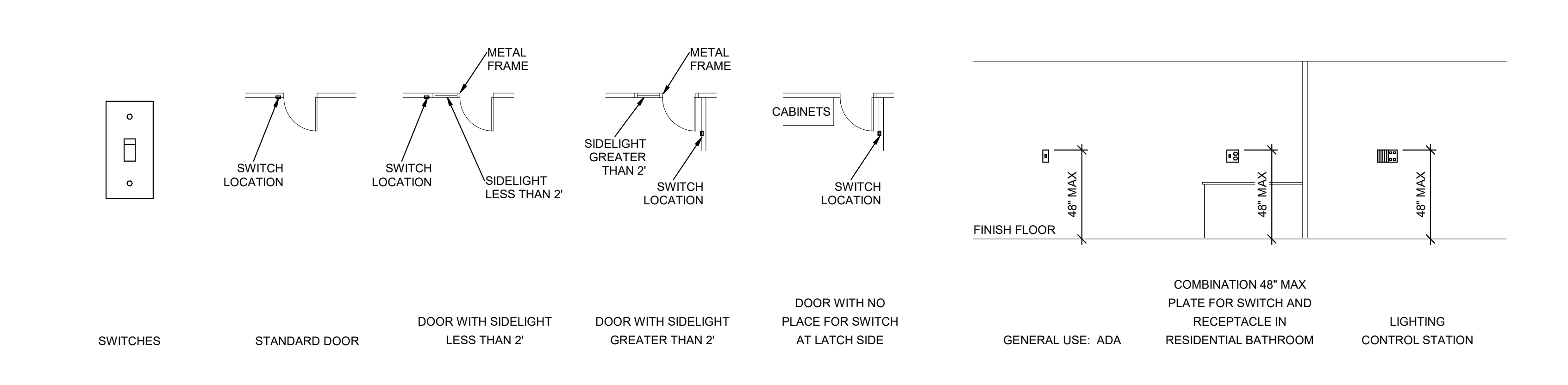




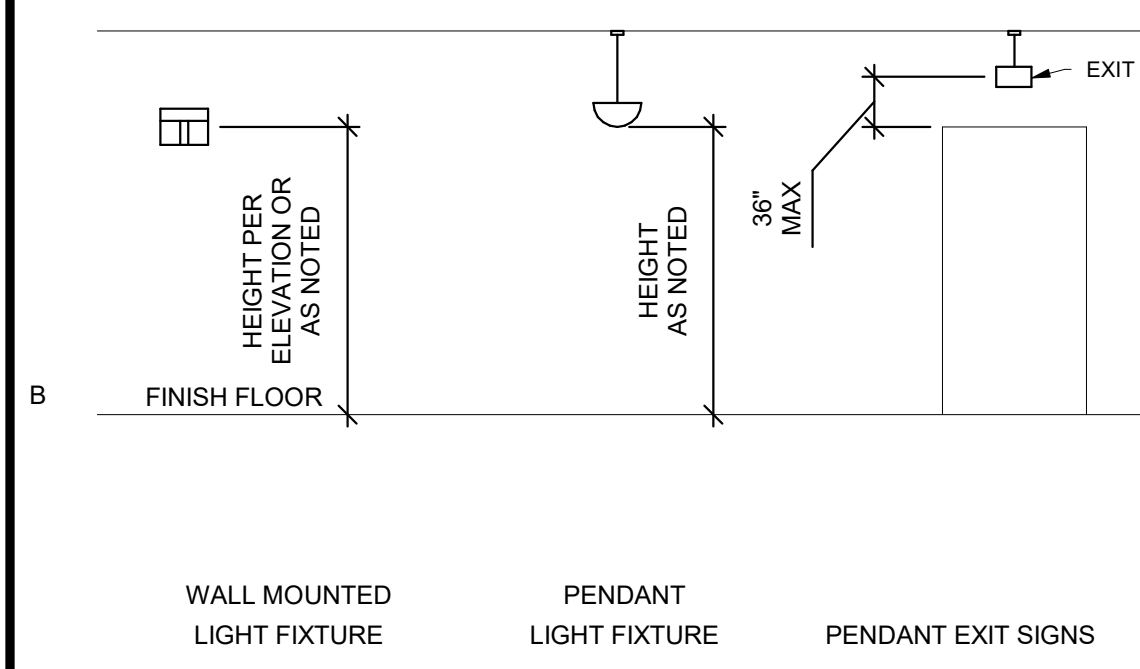
**D1 RECEPTACLE MOUNTING DETAILS**  
SCALE: NTS



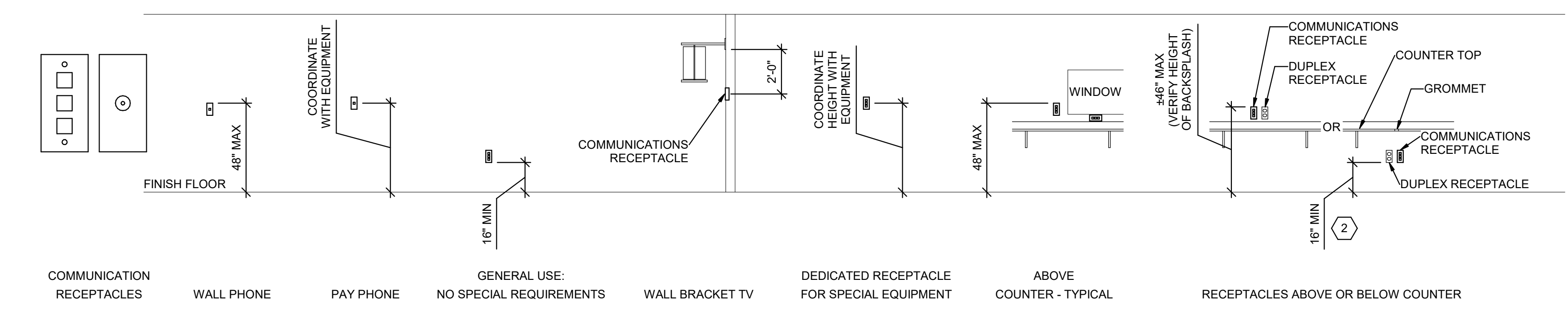
**C1 ADA DETAIL**  
SCALE: NTS



**C2 SWITCH MOUNTING DETAILS**  
SCALE: NTS



**B1 LIGHTING MOUNTING DETAILS**  
SCALE: NTS



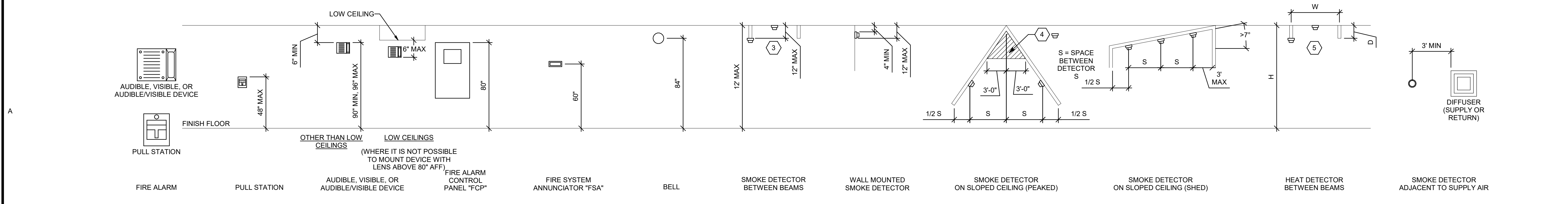
**B2 COMMUNICATIONS MOUNTING DETAILS**  
SCALE: NTS

**GENERAL SHEET NOTES**

- DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:  
A - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC.)  
B - EQUIPMENT SHOP DRAWINGS.  
C - FIELD INSTRUCTIONS.
- LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
- MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
- MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
- SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
- LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
- VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
- LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.
- WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.

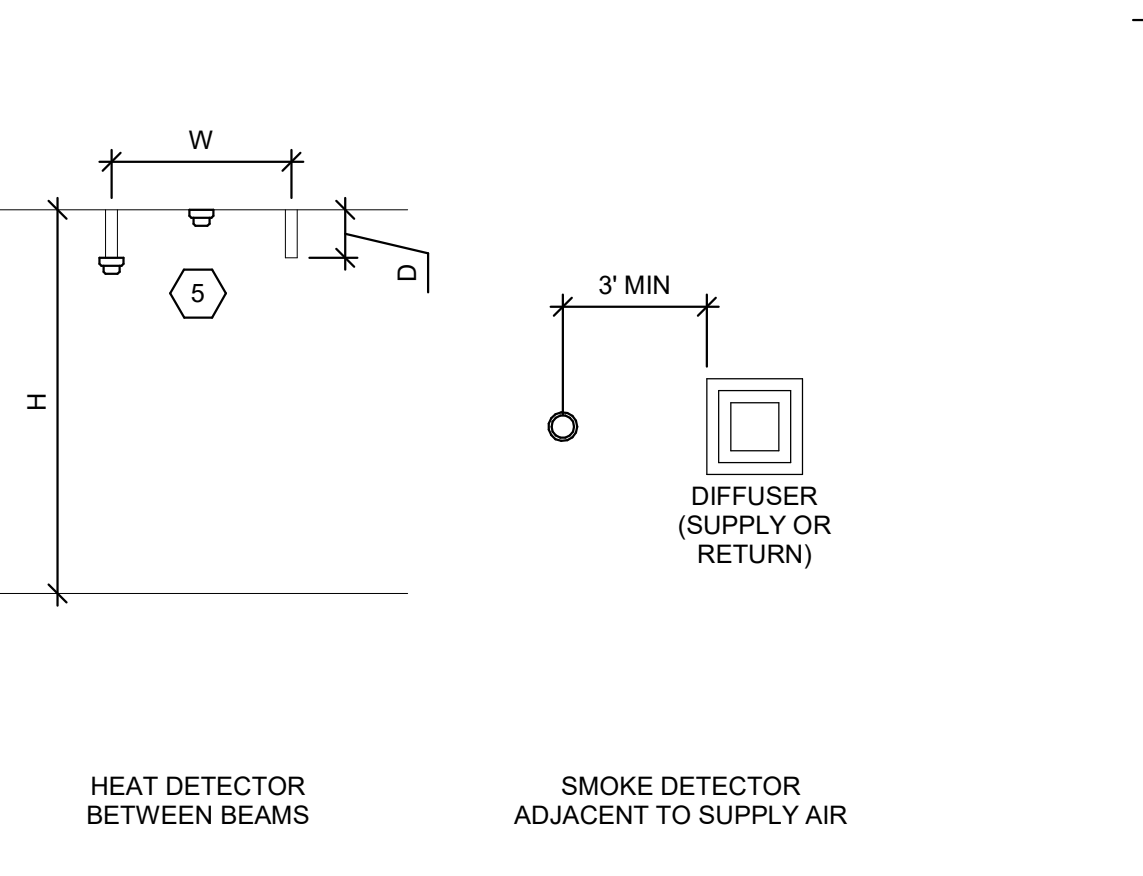
**SHEET KEYNOTES**

- LOCATE RECEPTACLES BEHIND DRINKING FOUNTAINS.
- REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.
- LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY .5 PERPENDICULAR TO BEAM OR JOIST DIRECTION) FOR OTHER CONDITIONS, REFER TO NFPA 72.
- LOCATE DETECTOR ANYWHERE IN SHADED AREA BUT NOT IN TOP 4" OF PEAK.
- LOCATE AT BOTTOM OF BEAMS IF D/H < .1 OR W/H < .4. OTHERWISE, LOCATE IN BEAM POCKET. FOR D > 4 REDUCE SPACING .33 PERPENDICULAR TO BEAMS.



**A1 FIRE ALARM MOUNTING DETAILS**  
SCALE: NTS

**B5 BOX MOUNTING DETAILS**  
SCALE: NTS



ARCHITECT'S INFORMATION

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PROFESSIONAL STAMP

DAVID G. HINCKLEY  
No. 5148728  
6-21-19  
STATE OF UTAH

CODE OFFICIAL STAMP

PROJECT NAME:  
**2019 DRAPER CITY HALL UPPER LEVEL REMODEL**

1020 PIONEER ROAD  
DRAPER, UTAH 84020

NO.	DATE	DESCRIPTION

ISSUED:

**SPECTRUM ENGINEERS**  
324 S. State St., Suite 400  
Salt Lake City, UT 84111  
800-678-7077  
801-328-5151  
fax: 801-328-5155  
www.spectrum-engineers.com

NO.	DATE	DESCRIPTION
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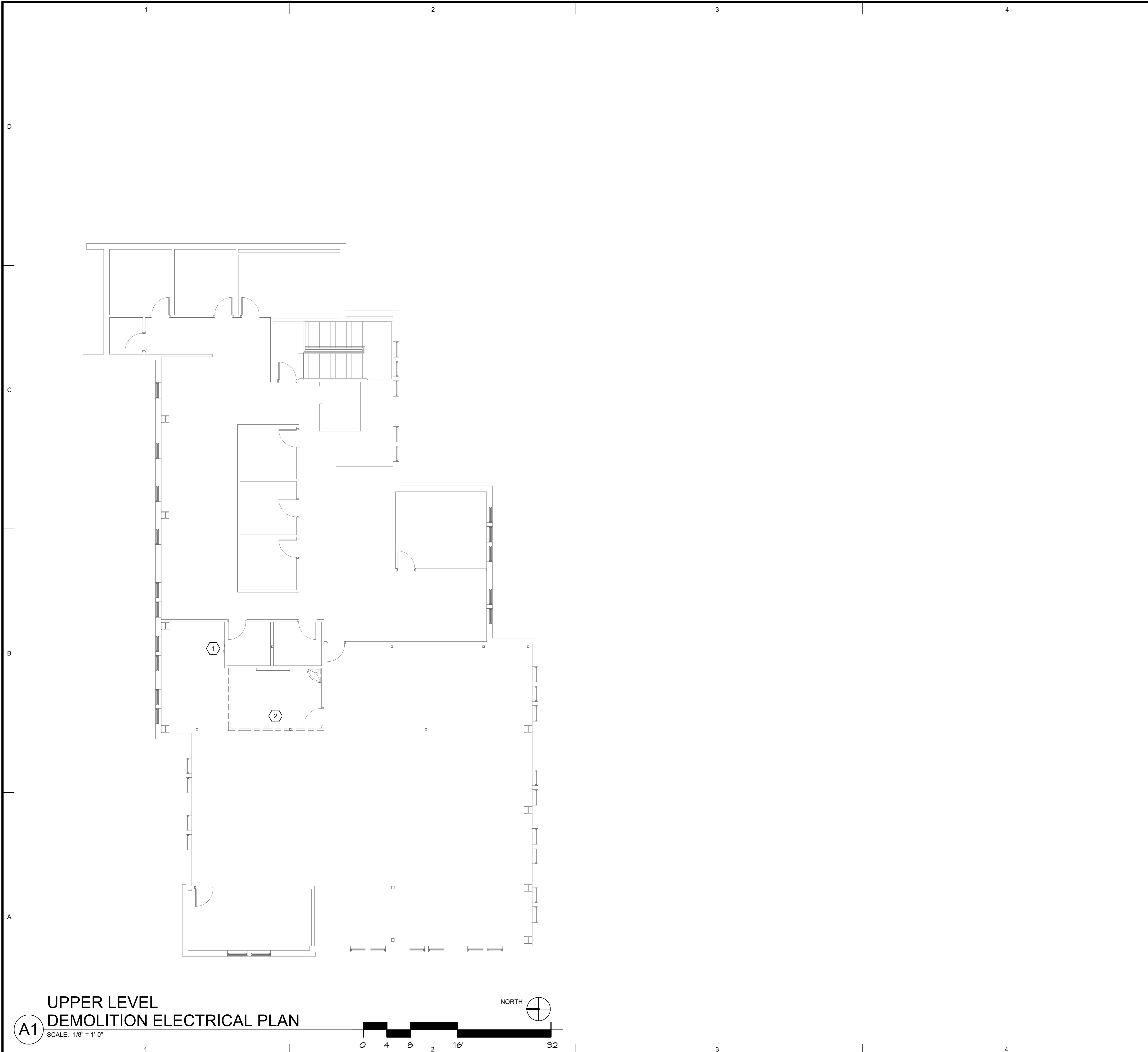
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SPE PROJECT #:  
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SHEET TITLE:  
**TYPICAL MOUNTING HEIGHT DETAILS**

SHEET NUMBER:  
**EE-701**





**GENERAL SHEET NOTES**

**SHEET KEYNOTES**


- EXISTING PANEL NEEDS TO BE RE-LOCATED. SEE NEW POWER PLAN FOR REVISED LOCATION OF PANEL. ASSUME A 100A FEEDER AND 23 BRANCH CIRCUITS WILL NEED TO BE SPLICED AND EXTENDED TO THE NEW LOCATION.
- DEMOLISH EXISTING ELECTRICAL IN THIS ROOM.

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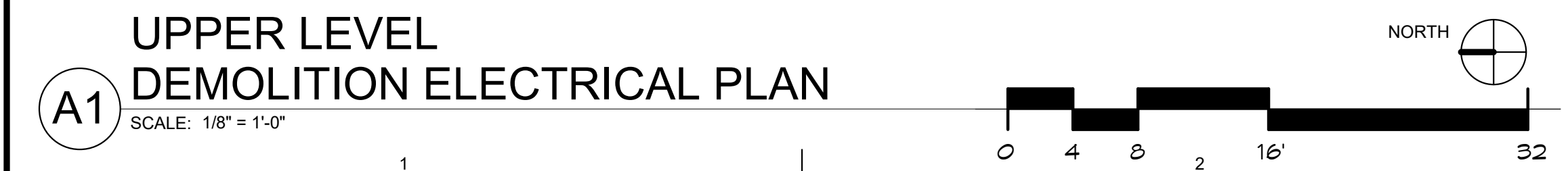
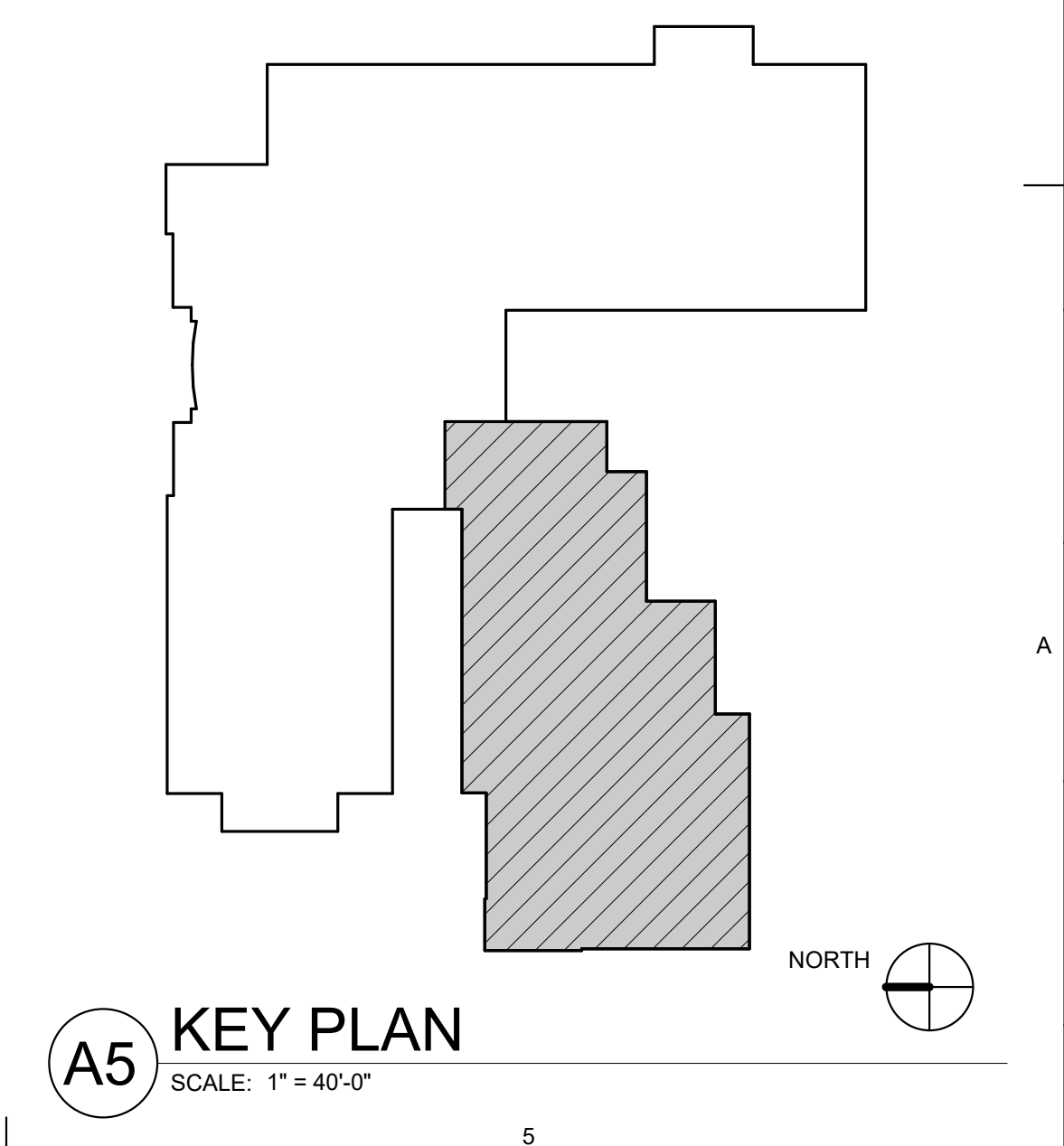
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 CHECKED BY: DGH  
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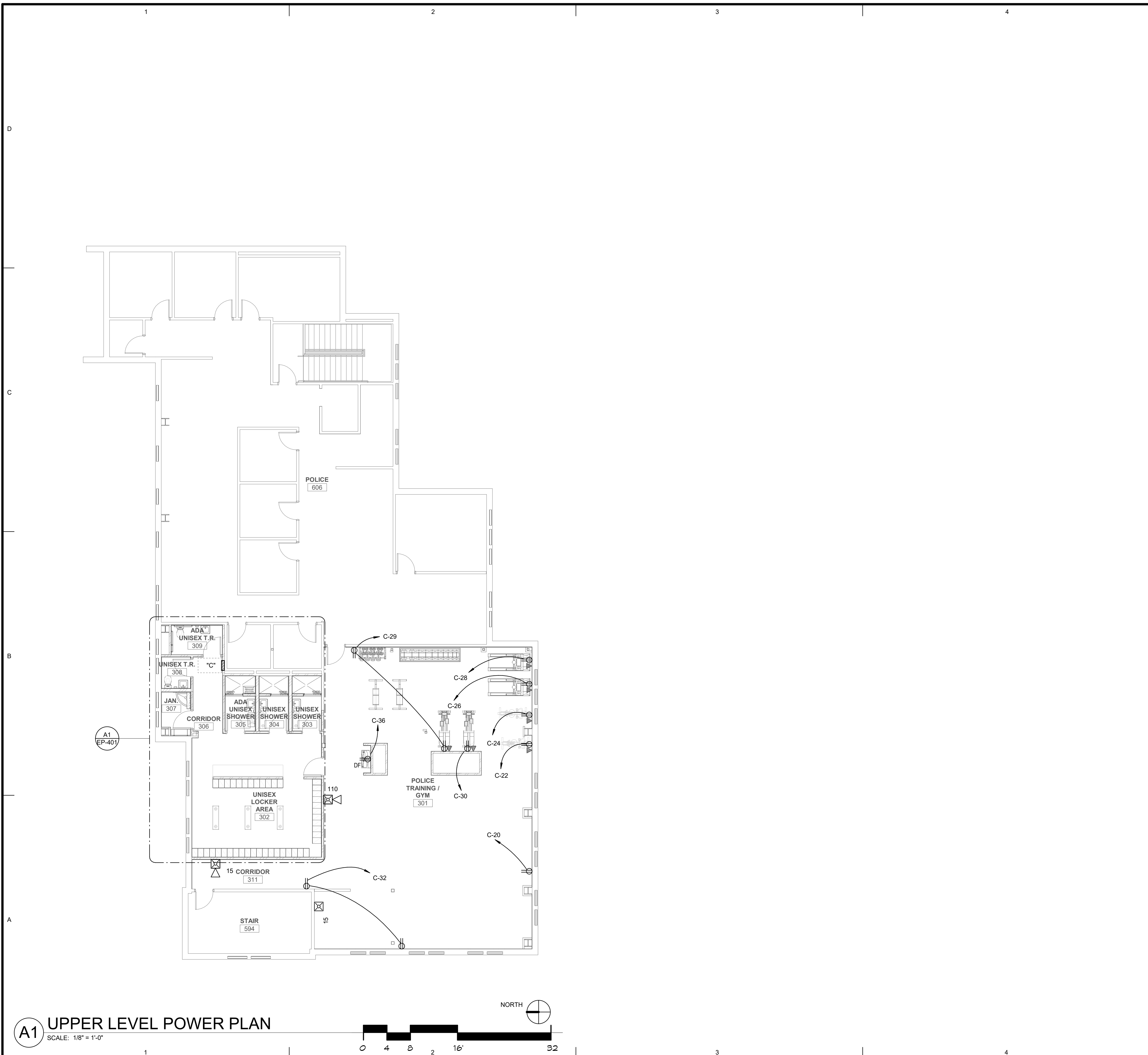
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SHEET TITLE:  
**UPPER LEVEL  
 DEMOLITION  
 ELECTRICAL  
 PLAN**

SHEET NUMBER:  
**ED-101**



Last Plotted: 06/21/2019 10:54:23 AM



**GENERAL SHEET NOTES**


**SHEET KEYNOTES**

ARCHITECT'S INFORMATION



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1020 PIONEER ROAD  
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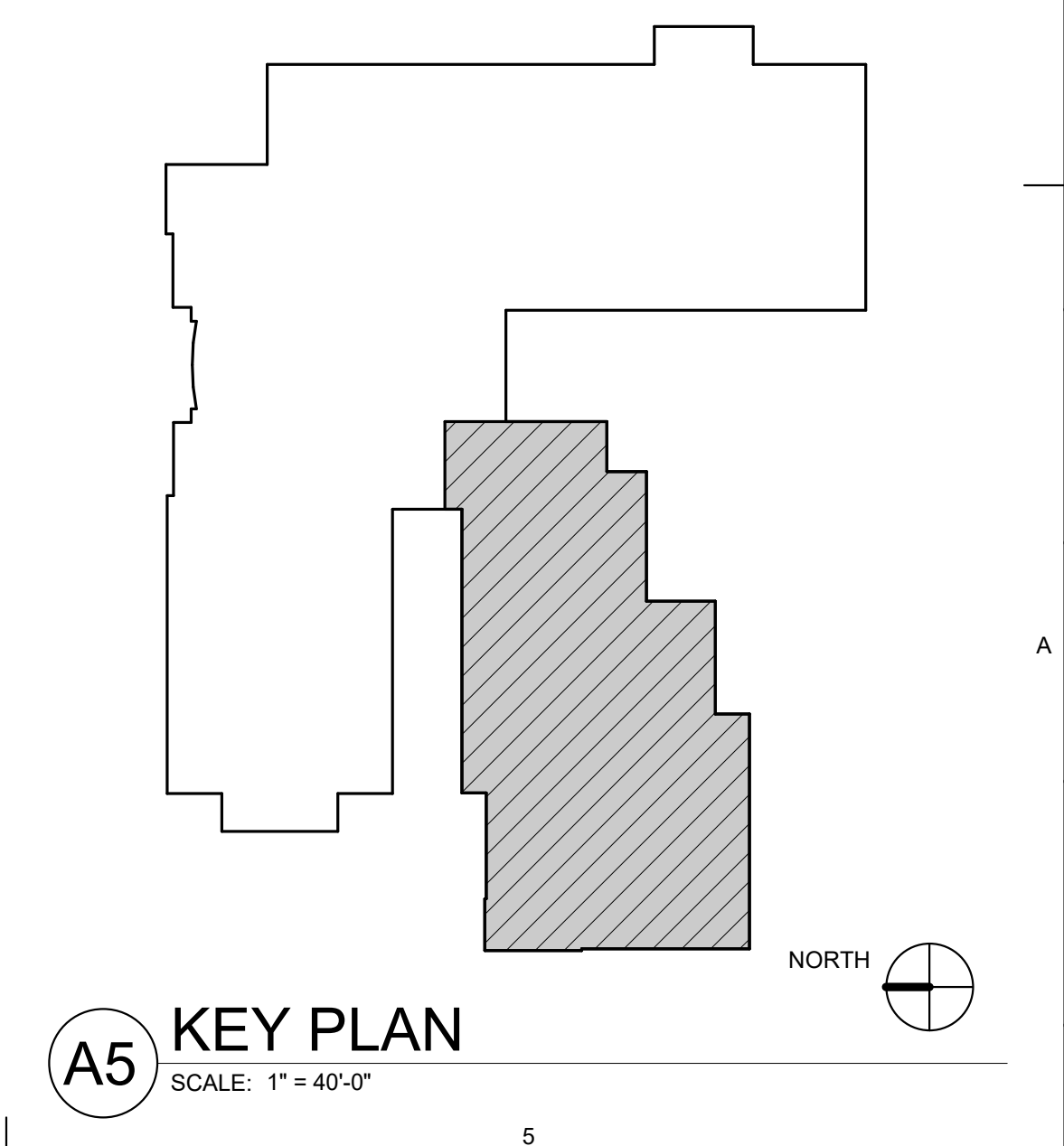
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SHEET TITLE:  
**UPPER LEVEL  
 POWER PLAN**

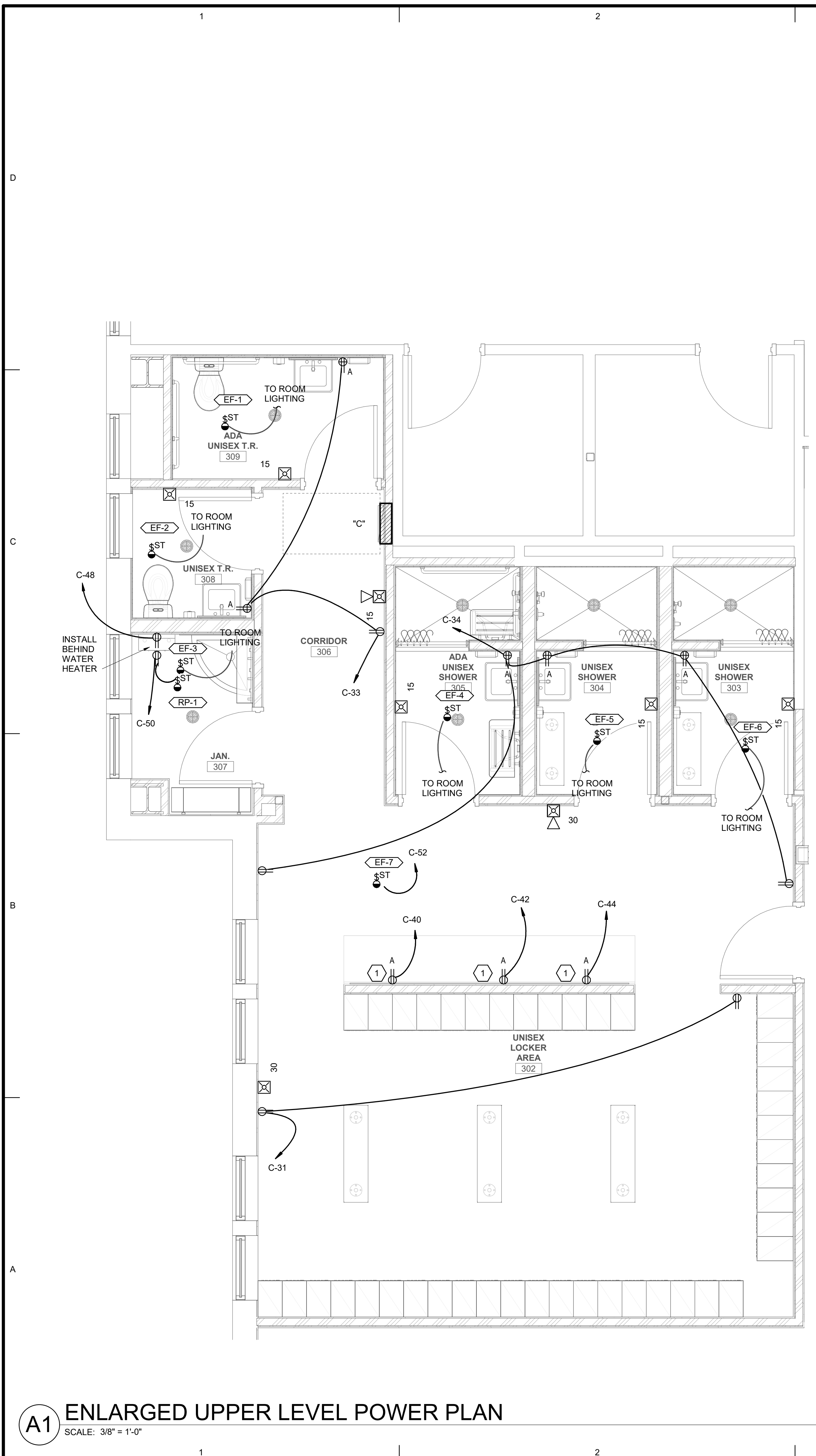
SHEET NUMBER:  
**EP-101**



**A1 UPPER LEVEL POWER PLAN**  
 SCALE: 1/8" = 1'-0"

Last Plotted: 02/20/2019 10:54:49 AM





**A1 ENLARGED UPPER LEVEL POWER PLAN**  
SCALE: 3/8" = 1'-0"

**GENERAL SHEET NOTES**

**SHEET KEYNOTES**

1 MOUNT OUTLET HORIZONTALLY BETWEEN MIRROR AND BACK SPLASH.

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SHEET TITLE:  
**ENLARGED  
UPPER LEVEL  
POWER PLAN**

SHEET NUMBER:  
**EP-401**

Last Plotted: 02/20/2019 2:15:05 PM

## EQUIPMENT SCHEDULE

MARK	QTY	ITEM DESCRIPTION	LOAD DATA						OVERCURRENT PROTECTION			DISCONNECT			STARTER					NOTES	MARK					
			HP	KW	MCA	FLA	VOL T	PH	Hz	WIRE AND CONDUIT SIZE	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	SIZES			SELECTOR SWITCH	PILOT LAMP	NORMALLY OPEN CONTACT	NORMALLY CLOSED CONTACT	PHASE FAILURE RELAY
EF-1	1	EXHAUST FAN	1/6	-	-	4.4	120	1	60	2 #12, 12 GR 0.75" CND	E	15/1 CB		E	TOGGLE SWITCH		Q	-	-	-	-	-	-	-		EF-1
EF-2	1	EXHAUST FAN	1/6	-	-	4.4	120	1	60	2 #12, 12 GR 0.75" CND	E	15/1 CB		E	TOGGLE SWITCH		Q	-	-	-	-	-	-	-		EF-2
EF-3	1	EXHAUST FAN	1/6	-	-	4.4	120	1	60	2 #12, 12 GR 0.75" CND	E	15/1 CB		E	TOGGLE SWITCH		Q	-	-	-	-	-	-	-		EF-3
EF-4	1	EXHAUST FAN	1/6	-	-	4.4	120	1	60	2 #12, 12 GR 0.75" CND	E	15/1 CB		E	TOGGLE SWITCH		Q	-	-	-	-	-	-	-		EF-4
EF-5	1	EXHAUST FAN	1/6	-	-	4.4	120	1	60	2 #12, 12 GR 0.75" CND	E	15/1 CB		E	TOGGLE SWITCH		Q	-	-	-	-	-	-	-		EF-5
EF-6	1	EXHAUST FAN	1/6	-	-	4.4	120	1	60	2 #12, 12 GR 0.75" CND	E	15/1 CB		E	TOGGLE SWITCH		Q	-	-	-	-	-	-	-		EF-6
EF-7	1	EXHAUST FAN	1/6	-	-	4.4	120	1	60	2 #12, 12 GR 0.75" CND	E	15/1 CB	C	E	TOGGLE SWITCH	C	Q	-	-	-	-	-	-	-		EF-7
RP-1	1	RECIRC PUMP	1/6	-	-	4.4	120	1	60	2 #12, 12 GR 0.75" CND	E	15/1 CB	C	E	TOGGLE SWITCH	C	Q	-	-	-	-	-	-	-		RP-1

**EQUIPMENT SCHEDULE KEY**  
 E - DIVISION 26  
 Q - FURNISHED WITH EQUIPMENT  
 \* - COORDINATE WITH THE DIVISION 23 TEMPERATURE CONTROL INSTALLER  
 \*\* - AUTOMATIC CONTROL WIRING BY DIVISION 23

**NOTES:**  
 1. NEMA 3R  
 2. TOGGLE SWITCH W/ THERMAL OVERLOAD  
 3. PROVIDE FUSED DISCONNECT ELEVATOR POWER MODULE WITH SHUNT TRIP  
 4. CONTRACTOR TO PERFORM FINAL CONNECTION TO LINE VOLTAGE THERMOSTATS  
 5. TOGGLE SWITCH W/BACNET INTERFACE  
 6. INDOOR UNITS FED FROM OUTDOOR UNIT. PROVIDE DISCONNECTS FOR BOTH.  
 7. PROVIDE SWITCH WITH BACNET MS/TP CAPABILITY.  
 8. PROVIDE LABEL ON DISCONNECT "DISCONNECT OUTDOOR UNIT PRIOR TO INDOOR."  
 9. LINE VOLTAGE THERMOSTAT ON WALL.  
 10. PROVIDE EXPLOSION PROOF DEVICES AND WIRING METHODS.  
 11. PROVIDE DUAL-REDUNDANT 100% RATED VFD'S FOR AIR HANDLER.  
 12. PROVIDE MANUAL STARTER WITH THERMAL OVERLOAD AND RELAY FOR ATC/BAS CONTROL.

xxxxxxx



PANEL: "C"																		
VOLTS/PHASE/WIRE:			PANEL SIZE & TYPE:			MAIN SIZE AND TYPE:			FED FROM:		CABINET:		LOCATION:		NOTES:			
120/208V, 3 PH 4 WIRE			22" W x 6" D, BOLT-ON			225 AMPERE MAIN LUGS			SURFACE		CORRIDOR 306							
ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR																		
AIC RATING: 0																		
CKT NO	AMP	POLE	BKR	LOAD (KVA)			PHASE LOAD			DESCRIPTION	LOAD (KVA)			BKR	POLE	AMP	CKT NO	
				CO	PWR	LTG	A	B	C		CO	PWR	LTG					
1	20	1	--	--	--	--	0.0	0.0			EXISTING LOAD	--	--	--	1	20	2	
3	20	1	--	--	--	--		0.0	0.0		EXISTING LOAD	--	--	--	1	20	4	
5	20	1	--	--	--	--			0.0	0.0	EXISTING LOAD	--	--	--	1	20	6	
7	20	1	--	--	--	--	0.0	0.0			EXISTING LOAD	--	--	--	1	20	8	
9	20	1	--	--	--	--		0.0	0.0		EXISTING LOAD	--	--	--	1	20	10	
11	20	1	--	--	--	--			0.0	0.0	EXISTING LOAD	--	--	--	1	20	12	
13	20	1	--	--	--	--	0.0	0.0			EXISTING LOAD	--	--	--	1	20	14	
15	20	1	--	--	--	--		0.0	0.0		EXISTING LOAD	--	--	--	1	20	16	
17	20	1	--	--	--	--			0.0	0.0	EXISTING LOAD	--	--	--	1	20	18	
19	20	1	--	--	--	--	0.0	0.2			EXISTING LOAD	0.2	0.0	0.0	1	20	20	
21	20	1	--	--	--	--		0.0	0.2		EXISTING LOAD	0.2	0.0	0.0	1	20	22	
23	20	1	--	--	--	--			0.0	1.2	EXISTING LOAD	1.2	0.0	0.0	1	20	24	
25	20	1	--	--	--	--	0.0	1.2			EXISTING LOAD	1.2	0.0	0.0	1	20	26	
27	20	1	--	--	--	--		0.0	1.2		EXISTING LOAD	1.2	0.0	0.0	1	20	28	
29	20	1	0.0	0.0	0.4				0.4	0.2	CO POLICE TRAINING / GYM 301	0.2	0.0	0.0	1	20	30	
31	20	1	0.0	0.0	0.4		0.4	0.4			CO UNISEX LOCKER AREA 302	0.4	0.0	0.0	1	20	32	
33	20	1	0.0	0.0	0.5			0.5	0.9		CO ROOM 308, 309, 307, 306	0.9	0.0	0.0	GF	1	20	34
35	20	1	1.7	0.0	0.0				1.7	0.7	GYM LIGHTING	0.0	0.7	0.0	1	20	36	
37	--	--	--	--	--		0.0	1.2			SPACE	0.0	0.0	1.2	1	20	38	
39	--	--	--	--	--			0.0	0.2		SPACE	0.2	0.0	0.0	1	20	40	
41	--	--	--	--	--				0.0	0.2	SPACE	0.2	0.0	0.0	1	20	42	
43	--	--	--	--	--		0.0	0.2			SPACE	0.2	0.0	0.0	1	20	44	
45	--	--	--	--	--			0.0	0.2		SPACE	0.0	0.0	0.2	1	20	46	
47	--	--	--	--	--					0.0	SPACE	0.2	0.0	0.0	1	20	48	
49	100	3	0.0	15.8	0.0		5.3	0.5			EXIST. LOAD (FOR LOAD...	0.2	0.3	0.0	1	20	50	
51	--	--	--	--	--				5.3	0.3	EF-7	0.0	0.3	0.0	1	15	52	
53	--	--	--	--	--				5.3	0.0	SPACE	--	--	--	--	--	54	
<b>TOTALS:</b>				CONNECTED KVA PER PHASE			9	9	10	CONNECTED TOTAL KVA =			27					
				CONNECTED AMPS PER PHASE			76	73	81	AVERAGE CONNECTED AMPS PER PHASE =			76					
<b>NEC DIVERSIFIED LOAD CALCULATIONS</b>																		
LIGHTING & CONTINUOUS LOADS: 3.0 kVA @ 125% = 3.8 kVA - 100% CONNECTED LOAD PLUS 25% DIVERSIFIED TOTAL kVA = 28																		
RECEPTACLES: 7.6 kVA @ 100% = 7.6 kVA - FIRST 10kVA @ 100%, REMAINDER @ 50% AVERAGE AMPS PER PHASE = 78																		
ALL OTHER LOADS @ 100%: 17.2 kVA - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC																		
BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI																		

PANEL "C" IS EXISTING BUT CONTAINS NO SPARES, JUST SPACES. ALL NEW CIRCUITS SHOWN WILL REQUIRE A NEW 201 BREAKER

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 PROJECT NAME:  
**2019 DRAPER CITY HALL UPPER LEVEL REMODEL**  
 1020 PIONEER ROAD  
 DRAPER, UTAH 84020

REVISIONS:

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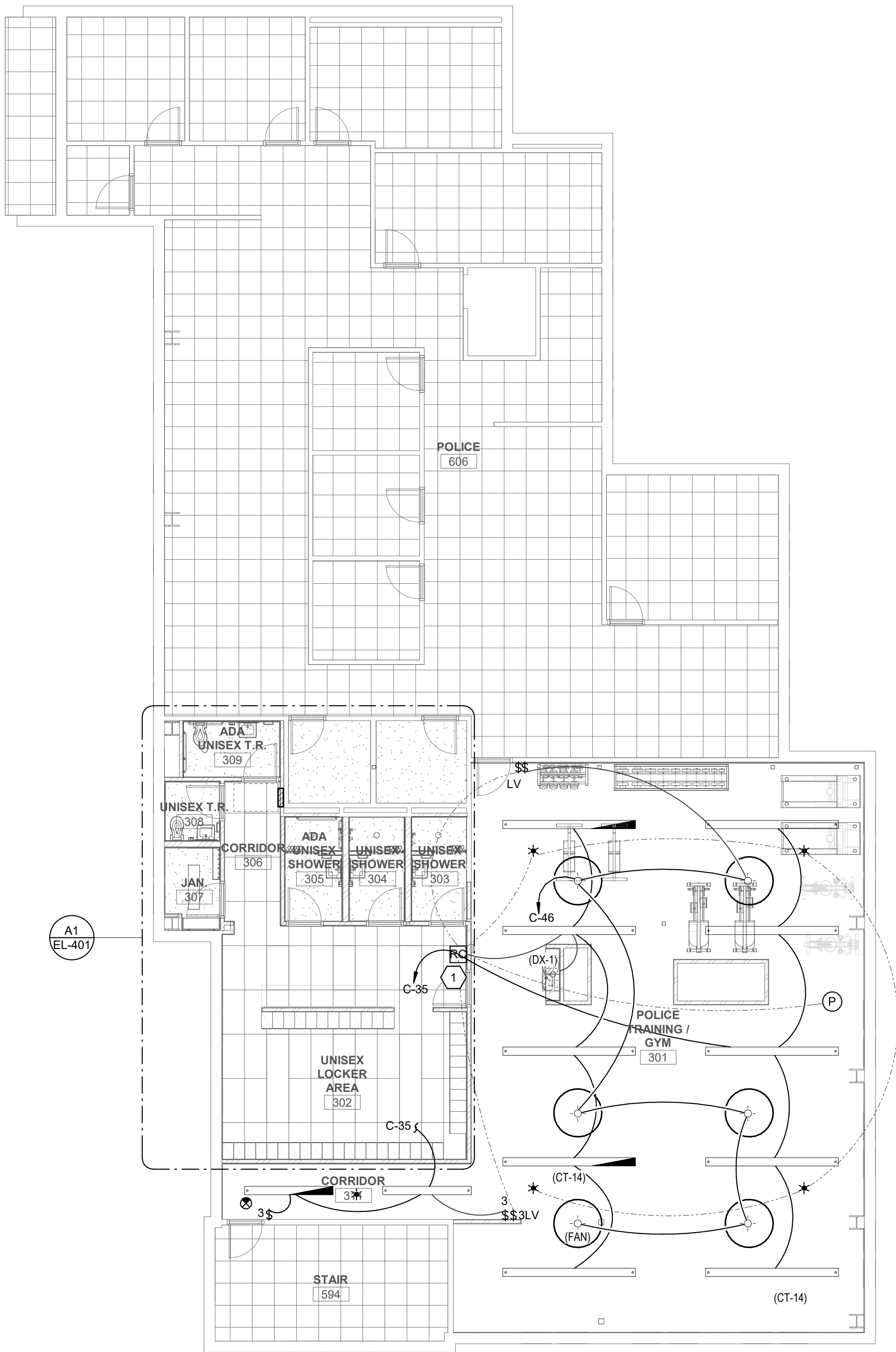
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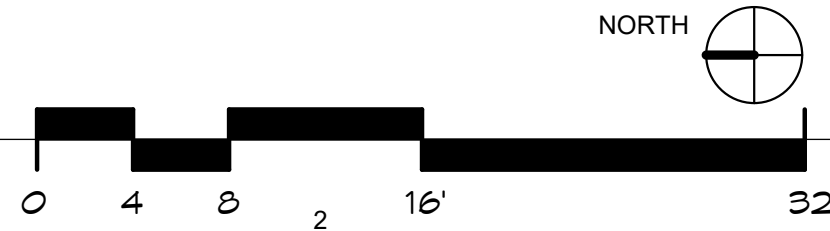
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 SHEET TITLE:  
**PANEL & EQUIPMENT SCHEDULE**

SHEET NUMBER:  
**EP-601**





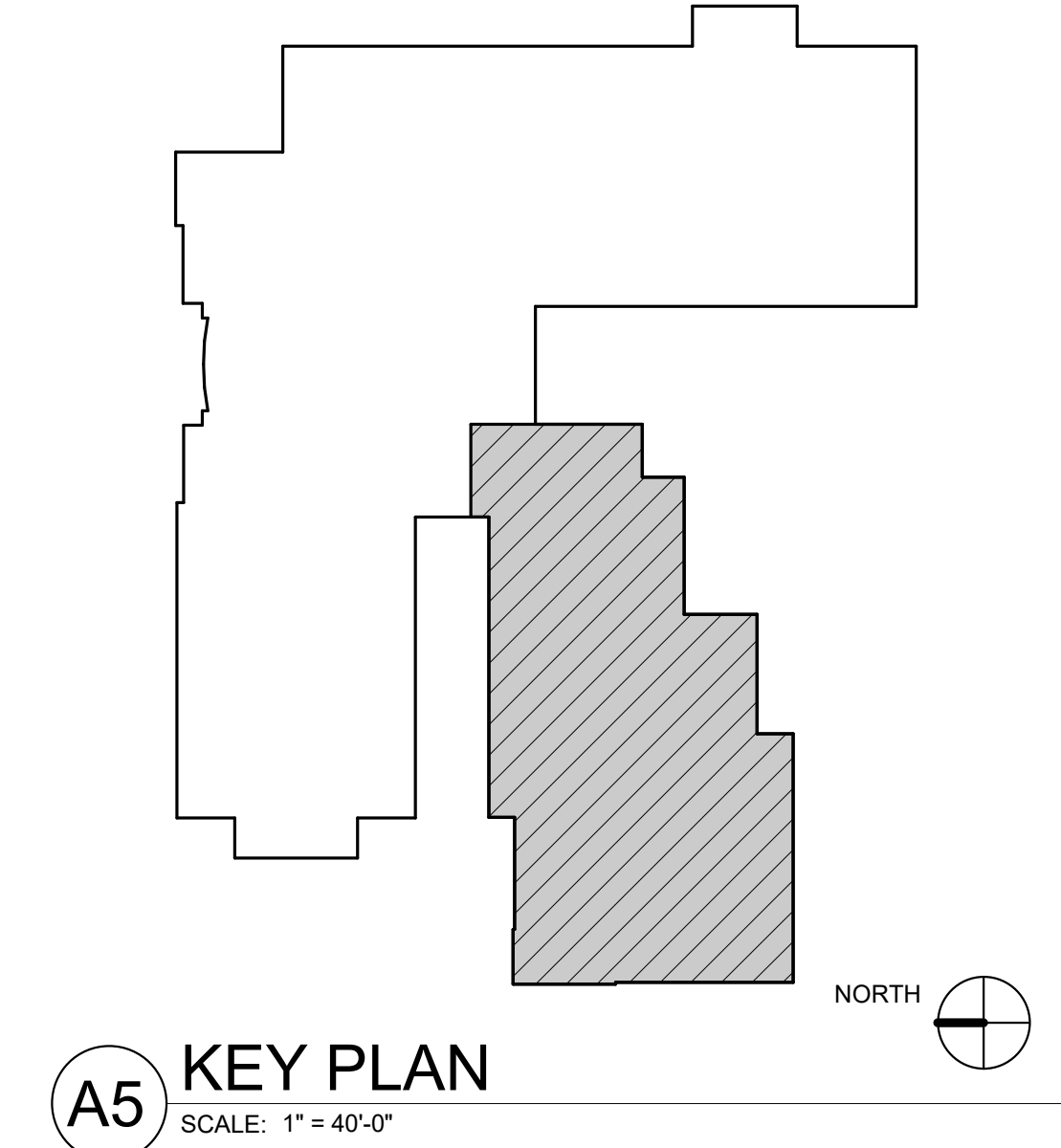
**A1** UPPER LEVEL LIGHTING PLAN  
SCALE: 1/8" = 1'-0"



**GENERAL SHEET NOTES**

**SHEET KEYNOTES**

1 PROVIDE 2-ZONE ROOM CONTROLLER. ZONE 1 SHALL HAVE AUTOMATIC DIMMING BASED OFF OF INCOMING DAYLIGHT. BOTH ZONES SHALL SHUTOFF IF THERE IS NO OCCUPANCY. BOTH ZONES SHALL BE CONTROLLED FROM ONE SWITCH.



**A5** KEY PLAN  
SCALE: 1" = 40'-0"

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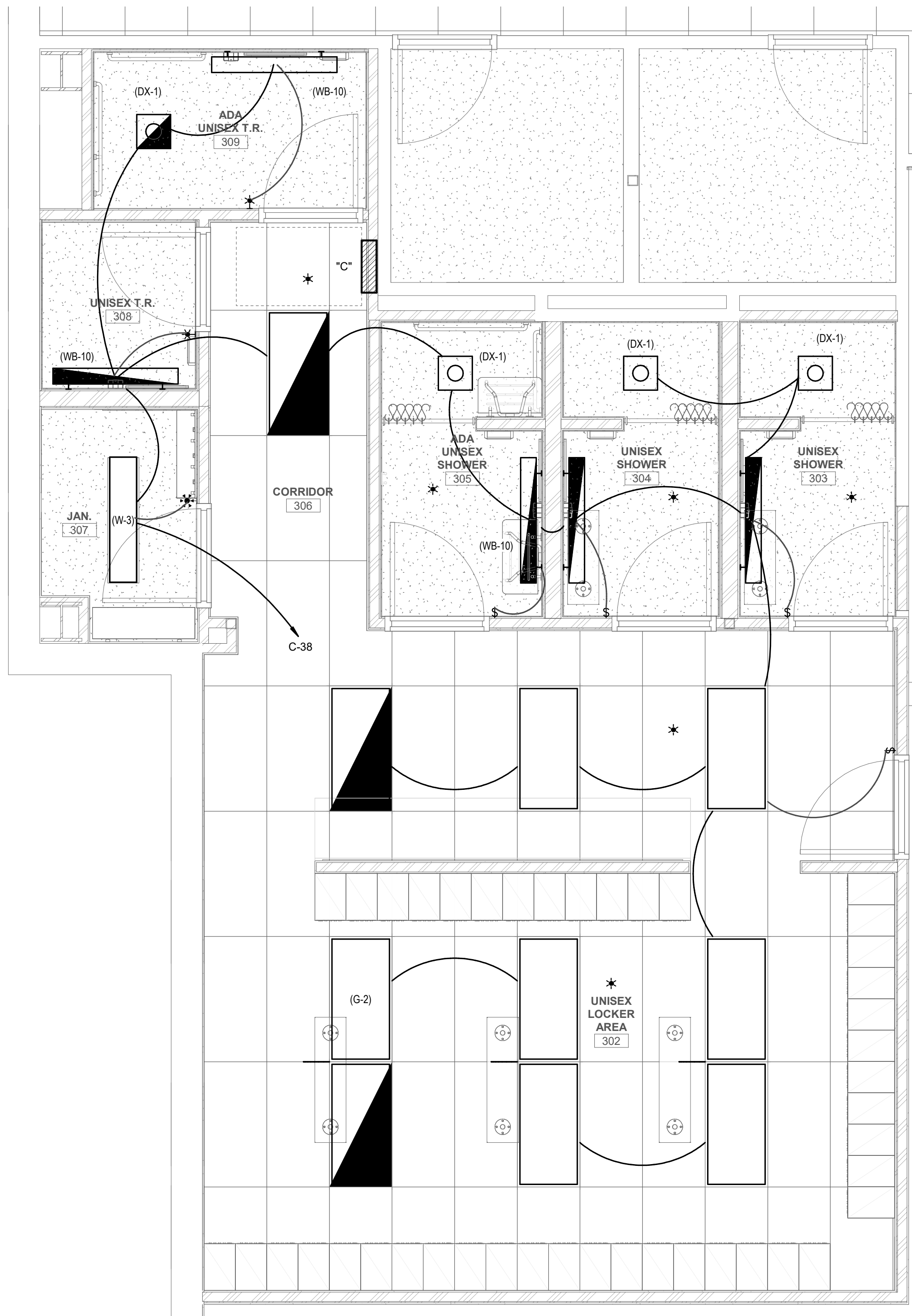
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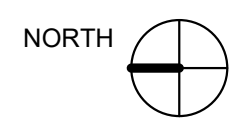
SHEET TITLE:  
**UPPER LEVEL  
LIGHTING PLAN**

SHEET NUMBER:  
**EL-101**

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**A1 ENLARGED UPPER LEVEL LIGHTING PLAN**  
SCALE: 3/8" = 1'-0"



**GENERAL SHEET NOTES**

**SHEET KEYNOTES**

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SHEET TITLE  
**ENLARGED  
UPPER LEVEL  
LIGHTING PLAN**

SHEET NUMBER:  
**EL-401**



# INTERIOR LIGHTING FIXTURE SCHEDULE

## ABBREVIATIONS

### MOUNTING

B - BASE  
C - CEILING  
F - FLANGE  
G - GRID  
P - PENDANT  
PL - POLE  
R - RECESSED  
S - SURFACE  
W - WALL

### LUMINAIRE OPTIONS

ARHR - AIR RETURN AND HEAT REJECTION  
DL - DAMP LOCATION  
EQC - EARTHQUAKE CLIPS  
F - FUSING  
HLD - HINGED AND LATCHED DOOR  
HS - HOUSE SIDE SHIELD  
PS - PHOTOCELL SWITCH  
QRS - QUARTZ RESTRIKE  
ST - STATIC  
WG - WIRE GUARD  
WL - WET LOCATION

### FINISH

MW - MATTE WHITE  
BL - BLACK  
SL - SILVER  
GL - GOLD  
CL - CLEAR  
PW - PAINTED WHITE  
EA - EXTRUDED ALUMINUM  
S - STEEL  
GS - GALVANIZED STEEL  
C - CAST  
CCA - COLOR BY ARCHITECT  
SCBA - STANDARD COLOR BY ARCHITECT  
FS - MEETS FEDERAL STANDARD 209D  
TP - THERMALLY PROTECTED  
FL - FLUSH  
R - REGRESS  
M - MITERED

### DIFFUSER/LENS

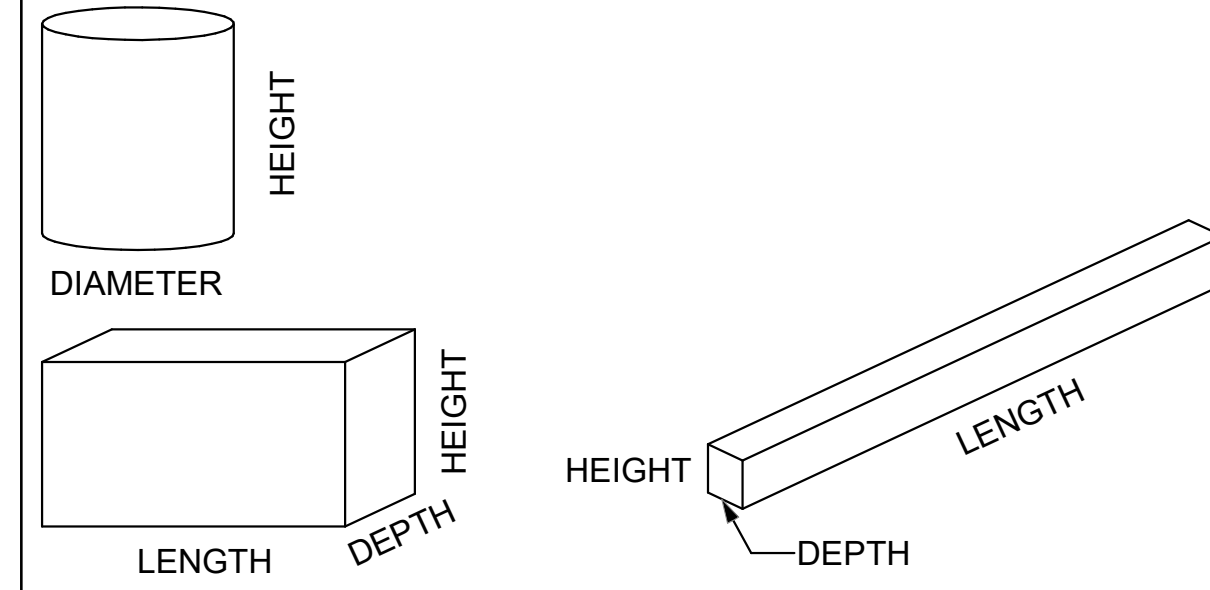
#A - ACRYLIC #THICK  
#OA - ACRYLIC #THICK (OPAL)  
GC - GLASS (CLEAR)  
GO - GLASS (OPAL)  
GF - GLASS (FROSTED)  
SGL - SOFT GLOW LENS  
HPL - HIGH PERFORMANCE LENS  
DO - DROP OPAL  
CGL - CONVEX GLASS LENS  
S - SATIN LENS

### REFLECTOR

OP - NONE/OPEN  
SP - SPECULAR  
SS - SEMI-SPECULAR  
D - DIFFUSE (WHITE ENAMEL)  
SC - SPECULAR (COLORED)  
PR - PRISMATIC  
FDR - FULL DEPTH REFLECTOR  
DS - DIFFUSE (SEMI SPECULAR) SILVER  
LI - LOW IRIDESCENT  
IR - IRIDESCENT  
SL - SILVER  
GL - GOLD  
CA - CLEAR ALZAK

## GENERAL NOTES

- PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER.
- CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES.
- SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING, THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING.
- SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES.
- ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION.
- VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS.
- COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS.
- REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, DRIVERS, AND LAMPS.
- ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER.



### NOTES

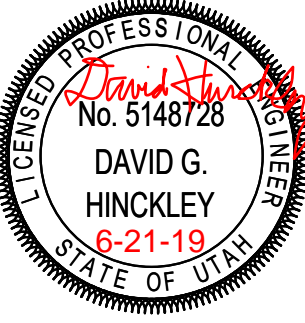
ID	DESCRIPTION	NOMINAL SIZE		TYPE	COLOR TEMP	VOLTAGE	WATTS	FIXTURE LUMENS	MANUFACTURER (CATALOG SERIES)				
		DIAMETER/APERTURE							OPTION 1	OPTION 2	OPTION 3	OPTION 4	
(CT-14)	SUSPENDED LINEAR 100% DOWN 850 LUMENS PER FOOT			LED	3500K	120/277	75	10200	PINNACLE L8DI-A-100-835HO-12/8-AC-ST-U-OL1-1-W	LUMENWERX REVPICL-PMO-LED-80-87-5-0-35-12/8-UNV-D1-1-53W-AC36-W	PRUDENTIAL PRU15-SQ-LED35-HO-12/8-SAL-TMW-D1-SC-UNV-CA-48-DM10		
(DX-1)	6" ROUND RECESSED DOWNLIGHT	6"		LED	3500K	120/277	17	1500	LITHONIA LDN6 35/15 LO6AR LSS MVOLT EZ10-WET	PRESCOLITE LF6SL-6LFLSL15L35K-WET	LIGHTOLIER C6L1520-DL-3500K-W-CCL-P-CBL20-N-WET	HALO PD6-15-ED010-PDM6A-835-61V-H-WET	
(E9-1)	EXIT SIGN (DOUBLE FACE)			LED	GREEN	120/277	2	0	EVENLITE SOV-EM-G-1C-WH-RC-UC	ISOLITE ELT-EM-G-1C-BK-RC-UC	DUAL LITE LE-C-S-G-X/R/L/D-W-E	CHLORIDE ER44RLDU-1-W-G	
(FAN)	CEILING FAN						21	0	BIG ASS FAN S3127-A2-XX-0402-C-01-XX				
(G-2)	2x4 LED VOLUMETRIC TROFFER			LED	3500K	120/277	36	4000	LITHONIA 2BLT4-40L-ADP-EZ1-LP835	COLUMBIA LCAT-24-35-ML-G-ED-U	METALUX 24CZ2-40-UNV-L835-CD-1	2-EV-G-43L-835-4-D-U-NV-DIM	
(W-3)	WRAPAROUND			LED	3500K	120/277	40	4000	LITHONIA LBL4-40L-LP835	METALUX 4WNLED-LD1-41-F-UNV-L-835-CD1-U	COLUMBIA LWC4-35ML-EU	DAYRITE OWL-4-40L-835-UNV-DIM	
(WB-10)	VANITY LIGHT			LED	3500K	120/277	28	3000	COLUMBIA MPS-4-35-VW-C-W-ED-U-MPSC	METALUX 4-BCLED-LD4-32SL-F-UNV-L835-CD1-U	LITHONIA CLX L48 3000LM SEF	H.E. WILLIAMS SLF-4-L52/835-HIA-(L3-2)-DIM-UNV	

ARCHITECT'S INFORMATION:



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PROFESSIONAL STAMP:



CODE OFFICIAL STAMP:

PROJECT NAME:

**2019 DRAPER CITY HALL  
UPPER LEVEL REMODEL**

1020 PIONEER ROAD  
DRAPER, UTAH 84020

REVISIONS:

NO.	DATE	DESCRIPTION
01	06/21/19	CONSTRUCTION BID SET



324 S. State St., Suite 400  
Salt Lake City, UT 84111  
800-678-7077  
801-328-5151  
fax: 801-328-5155  
www.spectrum-engineers.com

ISSUED:

NO.	DATE	DESCRIPTION
01	06/21/19	CONSTRUCTION BID SET

OWNER PROJECT #:

SPE PROJECT #: 18-38

DRAWN BY: RXR

CHECKED BY: DGH

DESIGNED BY: DGH

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SHEET TITLE:

**LIGHTING  
FIXTURE  
SCHEDULE**

SHEET NUMBER:

**EL-601**