

# IDAHO FALLS POLICE HEADQUARTERS - AUXILIARY BUILDING

# BID ISSUE

Issue Date: 2022.02.10
Project No.: 1047-20A

# Owner

#### **CITY OF IDAHO FALLS**

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# Consultants

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#### **TECHNOLOGY**

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# **Project Location**

701 Northgate Mile Idaho Falls, ID





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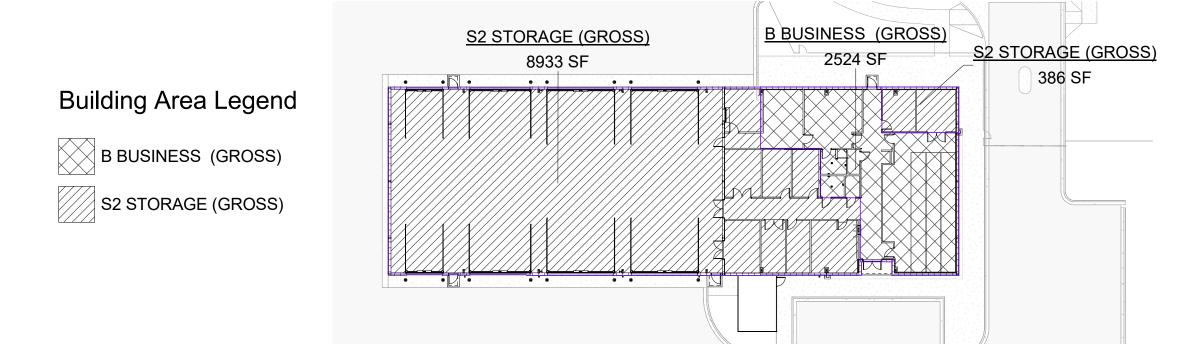
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Revisions:

#### OCCUPANT LOAD

	OCCUPANT LOAD (TABLE 1004.5)												
NAME AREA OCCUPANT LOAD FACTOR 1004.1.2 USE													
FIRST FLOOR													
B BUSINESS (GROSS)	2524 SF	150 SF	TRAINING CLASSROOM AND POLICE DEPARTMENT FUNCTIONS	17									
S2 STORAGE (GROSS)	9319 SF	300 SF	VEHICLE STORAGE / QUARTERMASTER STORAGE	32									
	11843 SF			49									
GRAND TOTAL	11843 SF			49									





#### PROJECT CRITERIA

OCCUPANCY CLASSIFICATION	MIXED: (B) BUSINESS / (S2) STORAGE
DESIGN CATEGORY	RISK CATEGORY IV (ESSENTIAL FACILITY - TABLE 1604 .5)
OCCUPANCY SEPARATION REQUIREMENT * (INCLUDES EXCEPTION FOR SPRINKLER TABLE 508.4)	NONSEPARATED OCCUPANCIES (508.3)
TYPE OF CONSTRUCTION	TYPE II B
SPRINKLERED (IN ACCORDANCE WITH SECTION 903.3.1.1)	YES NO

#### AREA AND REIGHT LIMITATIONS (CHAPTER 3) BUILDING AREA INCLUDES AREA WITHIN SURROUNDING EXTERIOR WALLS

	MAXIMUM ALL	OWABLE	PROVIDED	
ALLOWABLE BUILDING HEIGHT (TABLE 504.3)	7	75'	24' - 7"	
ALLOWABLE NUMBER OF STORIES (TABLE 504.4)	(B) = 4	(S-2) = 4	1	
ALLOWABLE FLOOR AREA (TABLE 506.2)	(B) = 92,000	(S-2) = 104,000	11,850 SF	
FIRST FLOOR BUILDING AREA	92,000 SF (MOS	ST RESTRICTIVE)	11,850 SF	
SECOND FLOOR BUILDING AREA	N	I/A	N/A SF	
TOTAL BUILDING AREA			11,850 SF	

#### EGRESS REQUIREMENTS (CHAPTER 10)

0.2 INCHES PER OCCUPANT

	REQUIRED	PROVIDED	
MAXIMUM TRAVEL DISTANCE TO AN EXIT  (PER TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE AND MOST STRINGENT OCCUPANCY - BUSINESS / SPRINKLED)	(B) 300 FEET	(S-2) 400 FEET	SEE LIFE SAFETY PLAN
MAXIMUM COMMON PATH OF TRAVEL  (PER 106.2.1 MOST STRINGENT OCCUPANCY - BUSINESS / SPRINKLED)	100 FEET	100 FEET	SEE LIFE SAFETY PLAN
DEAD END CORRIDOR (PER SECTION 1020.4 DEAD ENDS: EXCEPTION 2)	50 FEET	50 FEET	SEE LIFE SAFETY PLAN
MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY (PER SECTION 1006.3.1 EXIT OR EXIT ACCESS DOORWAYS REQUIRED)	2		SEE LIFE SAFETY PLAN
MINIMUM CORRIDOR WIDTH  (PER TABLE 1020.3 MINIMUM CORRIDOR WIDTH	36" MINIMUN [(0.2" x 49 OCCUPANT	-	74" PROVIDED
MINIMUM STAIRWAY WIDTH [.3 INCHES x (OCCUPANTS / # OF STAIRS)] (SECTION 1005.3.1) (1011.2 - MINIMUM WITH OF 44" FOR OCCUPANT LOAD OF 50+)	44" MINIMUN [(0.3" x 49 OCCUPANT		N/A
MINIMUM EXIT DOOR WIDTH (OTHER EGRESS COMPONENTS) (SECTION 1005.3.2)  0.2 INCHES PER OCCUPANT	32" MINIMUN	1	SEE LIFE SAFETY PLAN

#### FIRE PROTECTION REQUIREMENTS (CHAPTERS 5, 6, 7 & 10)

(TYPE IIB UNPROTECTED)	REQUIRED	PROVIDED
SEPARATION REQUIREMENTS (ACCESSORY OCCPANCIES 508.2) (NON-SEPARATED OCCUPANCIES 508.3) (SEPARATED OCCUPANCIES PER TABLE 508.4) (INCEDENTAL USES TABLE 509)	0	0
**BASED ON MOST STRINGENT OCCUPANCY PER 508.3.2.NONSEPARATED OCCUPANCIES FOR ASSEMBLY A-3		
INTERIOR BEARING WALLS, COLUMNS, BEAMS, GIRDERS, TRUSSES, FLOOR CONSTRUCTION, EXTERIOR BEARING WALLS	0	0
(PER TABLE 601: FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS)		
SECTION 708 FIRE PARTITIONS		
708.3 DWELLING UNIT AND SLEEPING UNIT SEPARATIONS IN BUILDING OF TYPE IIB, IIIB AND VB CONSTRUCTION SHALL HAVE FIRE-RESISTANCE RATINGS OF NOT LESS THAN 1/2 HOUR IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM	1/2 HOUR	1/2 HOUR
SMOKE PARTITIONS (PER SECTION 710)	0	0
VERTICAL SHAFT ENCLOSURES (FIRE BARRIER) (PER SECTION 713.4)	1 HOUR	1 HOUR
INTERIOR EXIT STAIRWAY ENCLOSURE (FIRE BARRIER) (PER SECTIONS 713.4 & 1023.2)	1 HOUR	1 HOUR
CORRIDOR (PER TABLE 1020.1: CORRIDOR FIRE-RESISTANCE RATING)	0	0

#### **PLUMBING**

(TABLE 403.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES)

TOTAL OCCUPANT LOAD	WC MALE (1/50)	WC FEMALE (1/50)	MIN LAV REQ (1/80)	DRINKING FOUNTAINS (1/100)	MIN. UTILITY SINK REQ.
17	0.17	0.17	0.21	0.17	
TOTAL					
OCCUPANT LOAD	WC MALE	WC FEMALE	MIN LAV REQ	DRINKING FOUNTAINS	MIN. UTILITY SINK
_	WC MALE (1/100) 0.32	WC FEMALE (1/100) 0.32	MIN LAV REQ (1/100) 0.32	DRINKING FOUNTAINS (1/1000) 0.03	MIN. UTILITY SINK REQ.

1 DOUBLE FOUNTAIN

TOTAL REQUIRED

**TOTAL PROVIDED** 

THE IBC COMMENTARY NOTES "THAT EXCEPT FOR HOSPITALS AND NURSING HOMES, ONE SERVICE SINK IS ALL THAT THE CODE INTENDS TO REQUIRE IN A BUILIDING WHERE ALL POTENTIAL USERS OF THE FIXTURE HAVE ACCESS TO IT."

#### **APPLICABLE CODES**

2018 INTERNATIONAL BUILDING CODE (IBC) 2018 INTERNATIONAL MECHANICAL CODE 2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL FUEL GAS CODE **2018 INTERNATIONAL ENERGY CONSERVATION CODE** 2015 INTERNATIONAL FIRE CODE

#### **CONCRETE ASSEMBLIES**

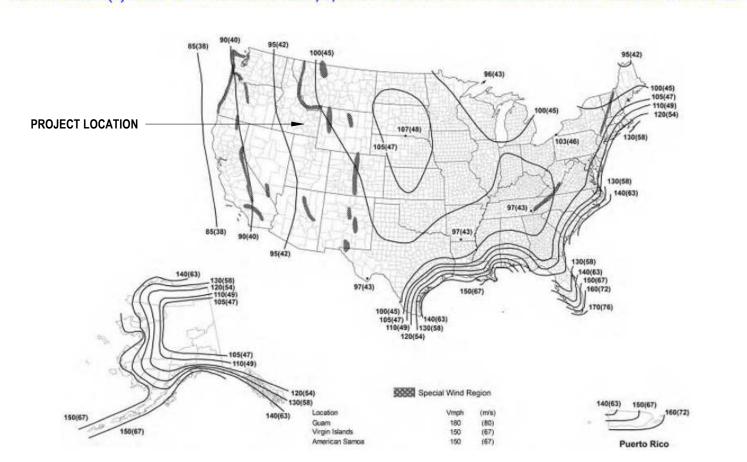
TABLE 722.2.1.1 MINIMUM EQUIVALENT THICKNESS OF CAST-IN-PLACE OR PRECAST CONCRETE WALLS, LOAD-BEARING OR NONLOAD-BEARING

	MINIMUM SLAB THICKNESS (inches) FOR FIRE-RESISTANCE RATING OF										
CONCRETE TYPE	1-hour	1 1/2-hour	2-hour	3-hour	4-hour						
Siliceous	3.5	4.3	5.0	6.2	7.0						
Carbonate	3.2	4.0	4.6	5.7	6.6						
Sand-lightweight	2.7	3.3	3.8	4.6	5.4						
Lightweight	2.5	3.1	3.6	4.4	5.1						

For SI: 1 inch = 25.4 mm.

#### WIND SPEED

FIGURE 1609.3(3)BASIC DESIGN WIND SPEEDS, V, FOR RISK CATEGORY IV BUILDINGS AND OTHER STRUCTURES



RISK CATEGORY IV PER TABLE 1064.5, BUILDING ENVELOPE RESISTANCE 6.2.2.1 WIND ZONE 1—130 MPH ≤ ULTIMATE DESIGN WIND SPEED,  $V_{ULT}$  < 140 MPH



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Signature and Seal:



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**IDAHO FALLS POLICE HEADQUARTERS** - AUXILIARY **BUILDING** 

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Project No. 1047-20A

Revisions:

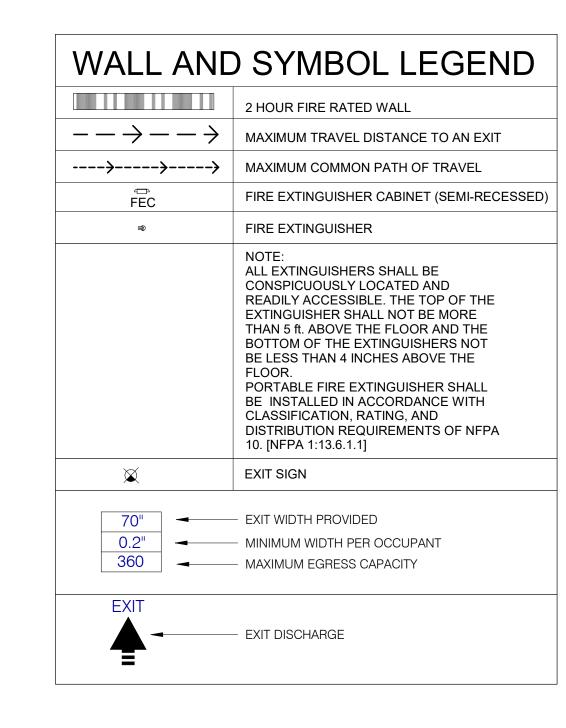
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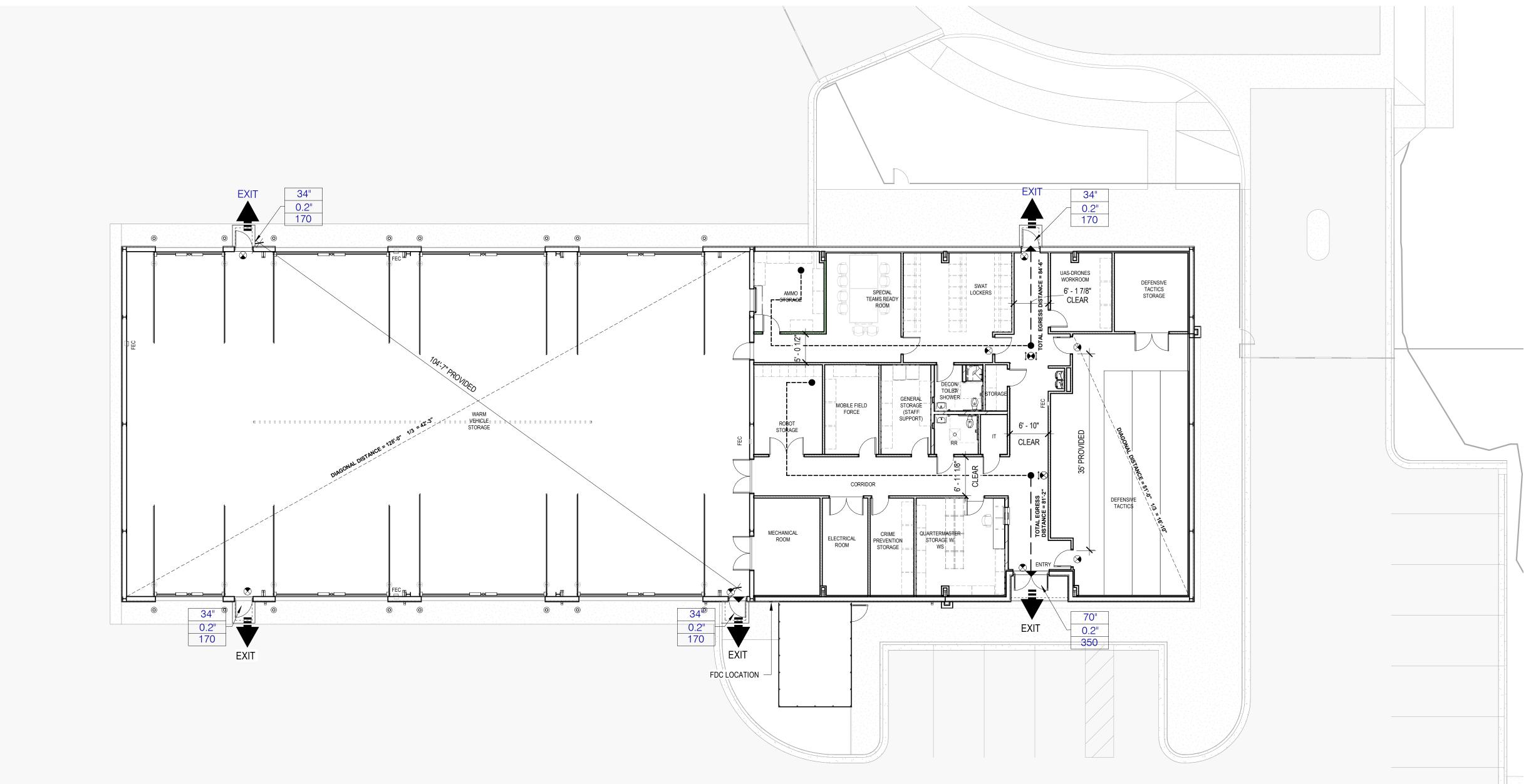
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Project North:

**PROJECT CRITERIA** 









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- AUXILIARY
BUILDING

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LIFE SAFETY PLAN -AUXILIARY

AB G-103

I. GENERAL APPLICATION

A. These drawings must be used in conjunction with the architectural drawings to clearly define the requirements for construction.

#### B. Do not scale drawings.

C. In the opinion of the Contractor, any items that appear to be deficiencies, omissions, contradictions or ambiguities in the drawings, should be brought to the attention of the Architect and/or G&S Structural Engineers.

D. The structural drawings along with the architectural describe the intended foundation layout and the minimum requirements. The foundation system is to be designed by a Professional Engineer licensed in the state of Idaho. The foundation and metal building shall be designed to the design criteria and allowable stresses provided in these notes as a minimum standard. The following structural items shall be submitted to the Architect of Record for review and comment: 1. Metal Building (Reference the Architectural drawings for metal building information) a. The metal building design and full drawings, sealed by a Professional Engineer

licensed in the state of Idaho b. The metal building anchor bolt plans and column reactions, sealed by a Professional Engineer license in the state of Idaho.

Foundation Design a. Drawings sealed by a Professional Engineer licensed in the state of Idaho containing the following:

i. All the footing locations, sizes and reinforcement. ii. All the pier locations, sizes and reinforcement.

iii. All the concrete wall locations, sizes and reinforcement. iv. The concrete slab on grade thickness, reinforcement for the general slab and any additional for

resisting the building column reactions, crack control/construction joints, etc. v. Allowable soil pressure used for the design. vi. Concrete design criteria if greater than what is specified below.

b. Design calculations supporting the foundation design sealed by a Professional Engineer licensed in the state of Idaho.

#### II. CODES AND SPECIFICATIONS

A. International Building Code (IBC) - 2018 Edition

#### III. DESIGN CRITERIA A. Wind

B. Seismic

3 Second Gust Wind Speed = 120 MPH (Ultimate) 93 MPH (Nominal)

Exposure = C Risk Category IV

 $S_s = 39.60\%g$  $S_{DS} = 0.392g$  $S_{D_{i}} = 0.222g$  $S_1 = 14.40\%g$ 

Risk Category = IV  $I_{E} = 1.50$ Site Class = D Seismic Design Category = D

Percentage of roof snow used for design = 20%

C. Live Loads per IBC Sec. 1607 Uniform (psf) 1. Ground snow: Pg

Roof a. Snow Load: Pf i. ls = 1.20ii. Ce = 1.0

iii. Ct = 1.0 b. Live Load (Non-concurrent with snow load) 7. Slab on grade

Self weight plus 5 psf

8. Interior wall lateral pressure D. Dead Loads <u>Uniform (psf)</u>

#### Framing system E. Design Assumptions

1. Soil bearing pressure used is 2000 psf for columns and wall footings as per the Geotechnical Engineering report, by Materials Testing and inspection, dated October 22, 2019, and the Addendum #1 dated November 11, 2020 by Atlas Technical Consultants. Any variation encountered, different from these reports, shall be brought to the attention of G&S Structural Engineers before proceeding.

#### F. Allowable Stresses (unless otherwise noted)

1. Concrete (Reference ACI 318-14, section 19.3-Concrete Durability Requirements)

i. Per ACI Table 19.3.1.1 – F0,S0,W0,C1

ii. Minimum f'c @ 28 days iii. W/C ratio 0.55 max

iv. Slump limit 4 - 8 inches with verified max slump of 3" before admixtures, (± 1")

3% (± 1%) Total air content v. Air entrainment b. Exterior/perimeter foundation walls

i. Per ACI Table 19.3.1.1 – F2,S0,W0,C1

ii. Minimum f'c @ 28 days 4500 psi

iii. W/C ratio 0.45 max 4 - 8 inches with verified max slump of 4" iv. Slump limit

before admixtures, (± 1") 6% (± 1%) Total air content

#### v. Air entrainment c. Interior slabs on grade not exposed to freeze thaw

i. Per ACI Table 19.3.1.1 - F0,S0,W0,C1 ii. Minimum f'c @ 28 days

iii. W/C ratio 0.55 max iv. Slump limit

4 - 8 inches with verified max slump of 3" before admixtures, (± 1")

3000 psi

v. Air entrainment No air additive vi. Coordinate concrete design with special slab finish requirements, see arch.

drawings and/or specifications. Use the more restrictive requirements. d. Exterior slabs on grade or interior slab exposed to freeze thaw

i. Per ACI Table 19.3.1.1 – F3,S1,W0,C2

ii. Minimum f'c @ 28 days iii. W/C ratio 0.40 max

iv. Slump limit

3 - 8 inches with verified max slump of 3" before admixtures, (± 1")

6% (± 1%) Total air content v. Air entrainment vi. See architectural and civil drawings and project specifications. Use the more restrictive requirements.

Reinforcing steel ASTM A615 Grade 60 a. Typical b. Weldable ASTM A706 Grade 60

IV. SPECIAL INSPECTIONS

A. The Owner or the Owner's Agent shall employ independent Special Inspector(s) to perform the following duties. Each Special Inspector shall submit qualifications

showing competency to the Building Official for approval prior to specified duties. All special inspection is to comply with IBC Chapter 17.

1. Duties and Responsibilities of the Special Inspector: a. The Special Inspector shall observe the work assigned to be certain it

conforms to the approved contract drawings. b. The Special Inspector shall furnish inspection reports to the Building Official and to the Architect of Record. All discrepancies shall be

brought to the immediate attention of the Contractor for correction.

2. Concrete: a. Special inspection per IBC Section 1705.3.

3. Anchors installed in concrete: a. Drilled in adhesive (epoxy) and mechanical anchors:

i. Special inspection of drilled in anchors as per ICC Evaluation Services

Report and/or as required by the building department, IBC Table 1705.3 and TMS 602 Table 4. b. Cast-in-place anchors:

i. Special inspection of anchor bolt embedment, placement and projection. Anchor bolts are to be accurately placed with templates to ensure proper placement.

Anchor bolts are to be adequately secured prior to pouring concrete. 4. Structural Steel:

a. Special inspection as specified by the metal building manufacture. Soils:

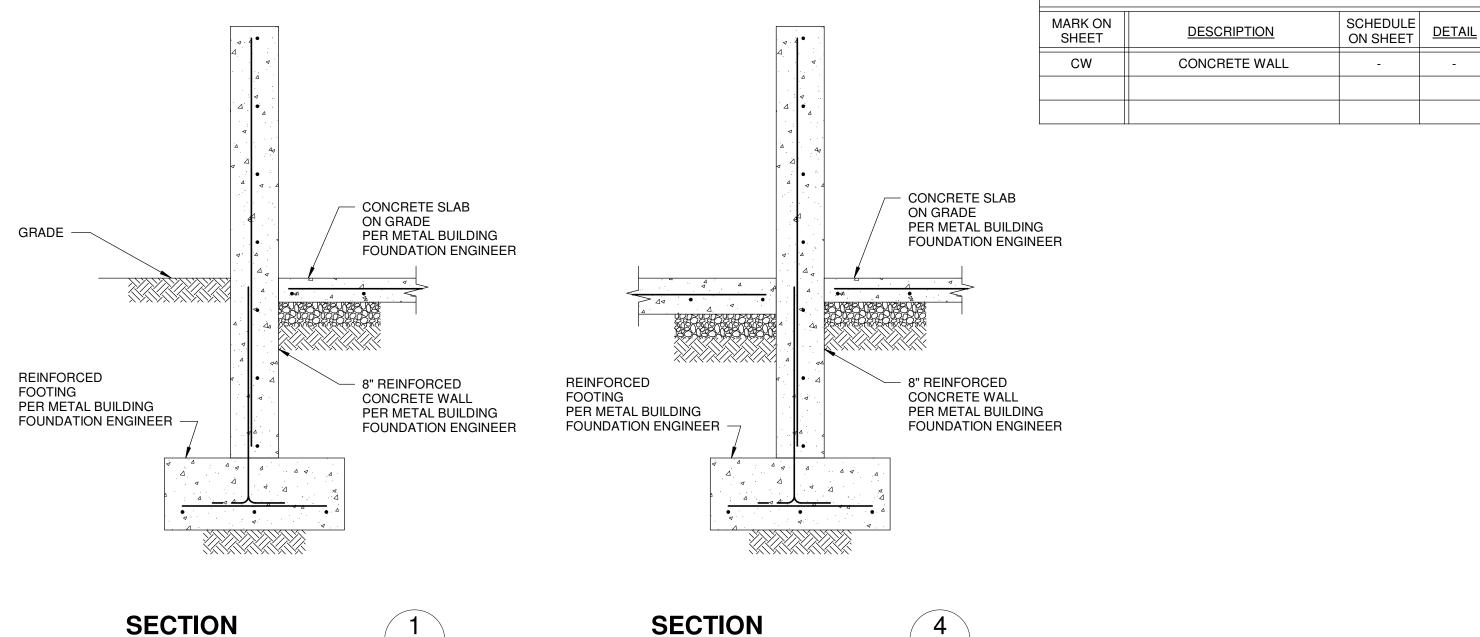
a. Periodic inspection of soils under concrete footings per the compaction requirements in the Geotechnical Engineering Report.

V. GENERAL STRUCTURAL NOTES

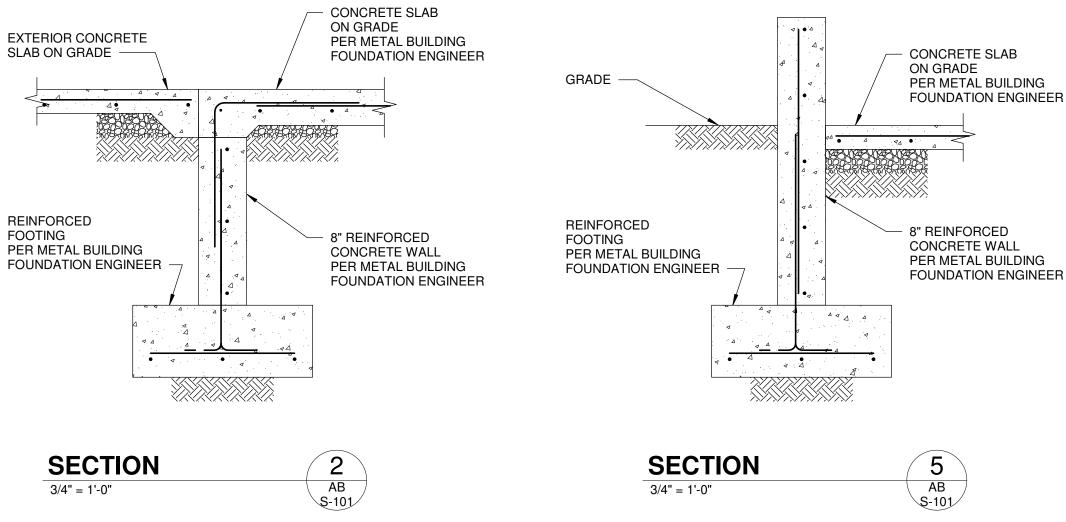
A. All footings shall bear on undisturbed soil or rock. The foundation shall bear on the same soil type throughout the entire structure. A minimum distance of 3'-0" shall be maintained from finished grade to the bottom of all concrete footings.

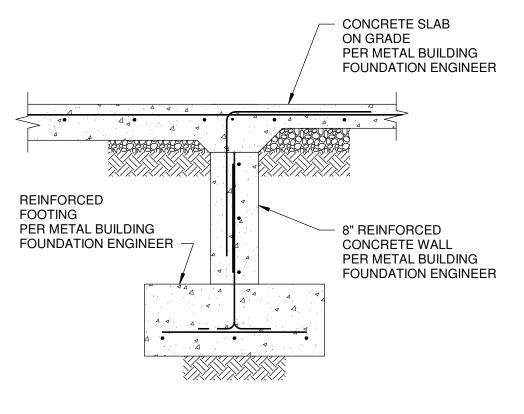
#### B. Caution shall be taken not to undermine existing footings.

C. Contractor shall verify all dimensions in the field: any variation from the drawings shall be brought to the attention of the Architect. Any proposed field changes shall have prior approval from the Architect.



3/4" = 1'-0"





AB \$-101

3/4" = 1'-0"





**LEGEND** 

**IDAHO FALLS POLICE HEADQUARTERS** 

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IDAHO FALLS, ID

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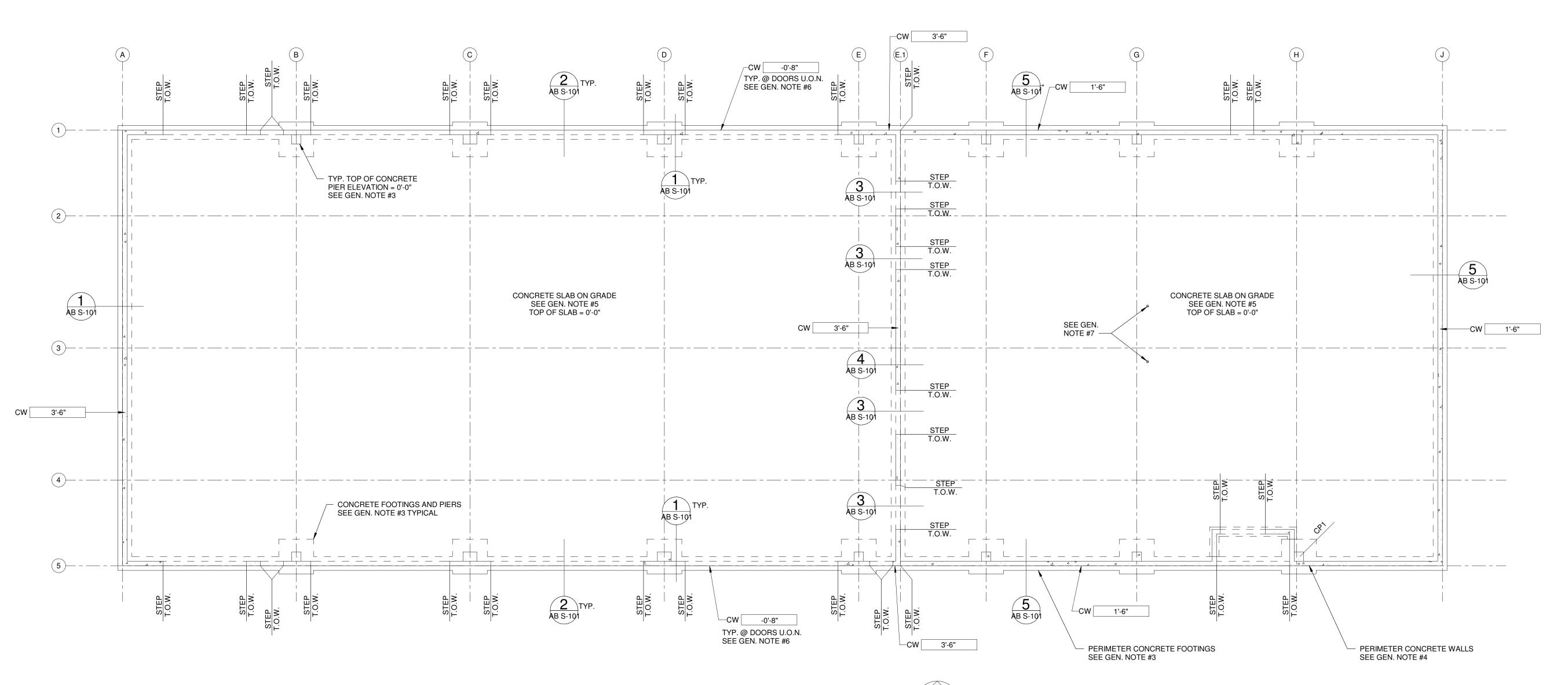
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DRAFTER:EL DESIGNER:MA CHECKER:FLW

**GENERAL NOTES** 

MA



PLAN NORTH

**AUXILIARY BUILDING FLOOR PLAN** 

1/8" = 1'-0"

**GENERAL NOTES:** 

- 1. See Architectural Drawings for dimensions not shown.
- 2. See Architectural Drawings for metal building configuration and layout.
- 3. Perimeter concrete walls, piers, and column footings to be designed by metal building foundation engineer. Maximum top of footing elevation to be -1'-6".
- 4. Perimeter 8" thick concrete walls to be designed by the metal building foundation engineer. Provide wall heights as shown. Minimum reinforcement to be #4 vertical @ 18" O.C. and #4 horizontal @ 12" O.C.
  - Concrete slab on grade to be designed by the metal building foundation engineer. Provide a minimum 6" concrete slab reinforced with a minimum #4 @ 18" O.C. in each direction between grids A & E.1 and a minimum 4" concrete slab reinforced with a minimum #4 @ 24" O.C. in each direction between grids E.1 & J.
- Provide stepped down foundation walls at all doors. Turn down concrete slab on grade down over the concrete walls and provide rebar dowels between the concrete slab and concrete wall matching the size and spacing of the concrete slab rebar.
- 7. See Architectural and Plumbing Drawings for floor drain locations in concrete slab on grade. Provide positive drainage towards floor drains.





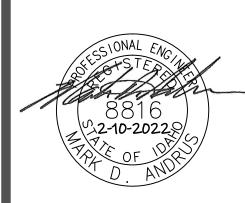
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IDAHO FALLS, ID

Project No. 1047-20

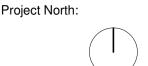
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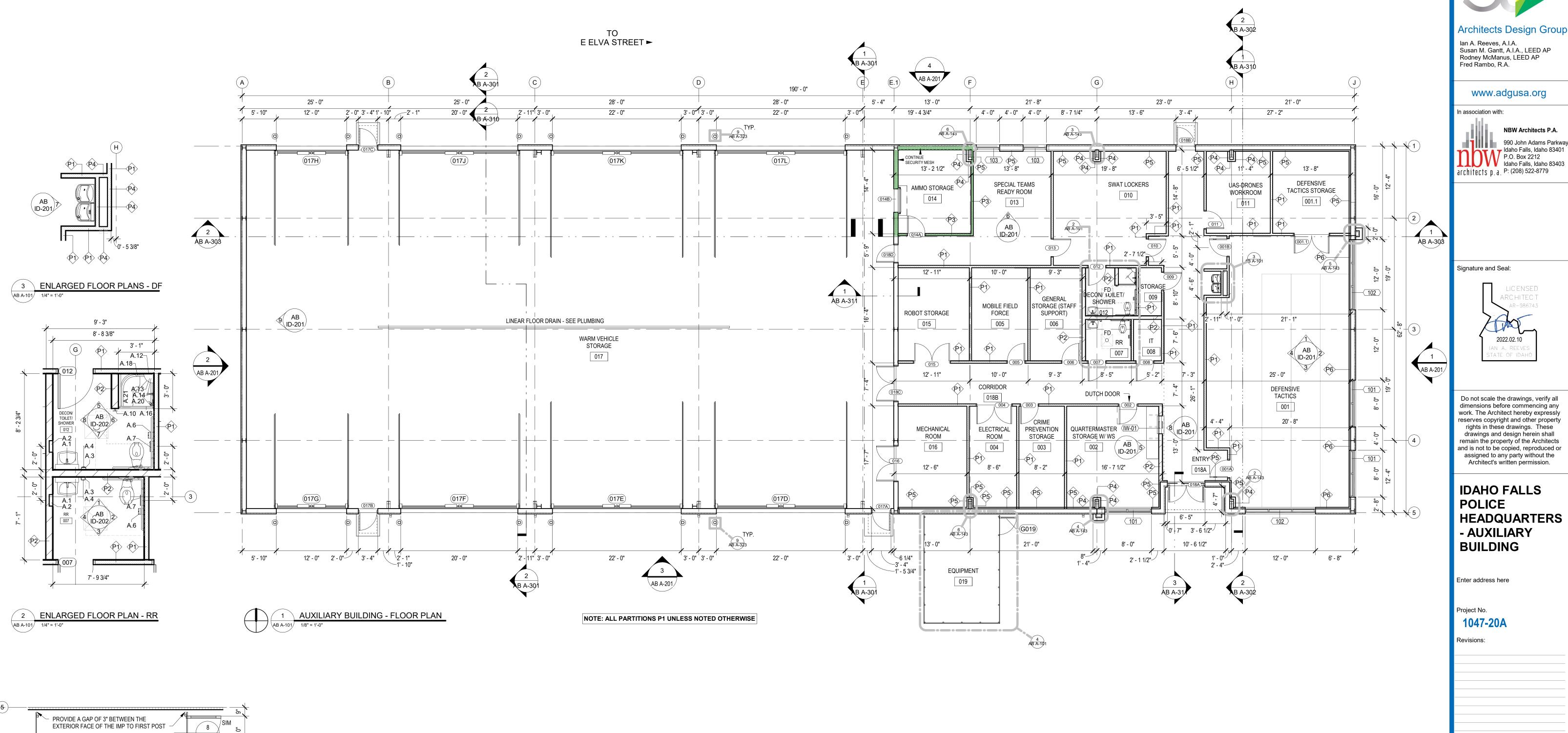
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FOUNDATION PLAN

AB S-201



Fred Rambo, R.A.

n association with:

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ARCHITECT

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**IDAHO FALLS** 

- AUXILIARY

1047-20A

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2022.02.10

**AUXILIARY** 

**PLAN** 

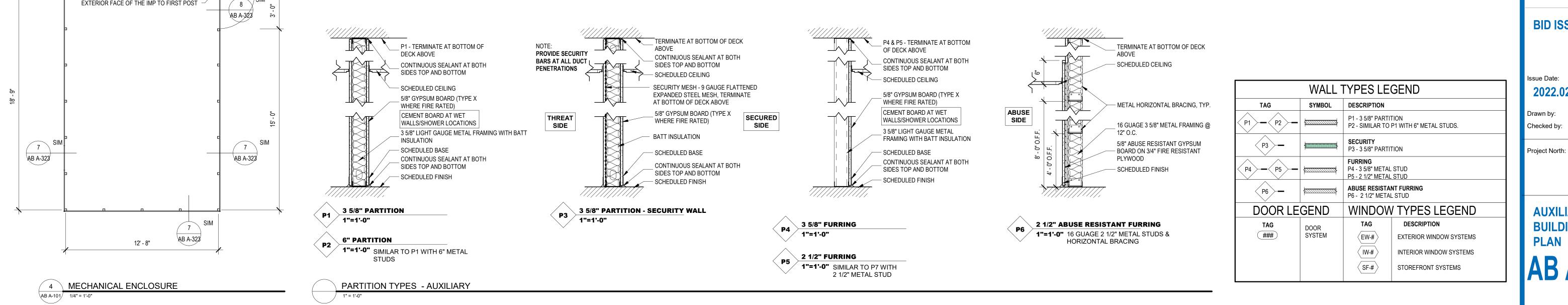
**BUILDING FLOOR** 

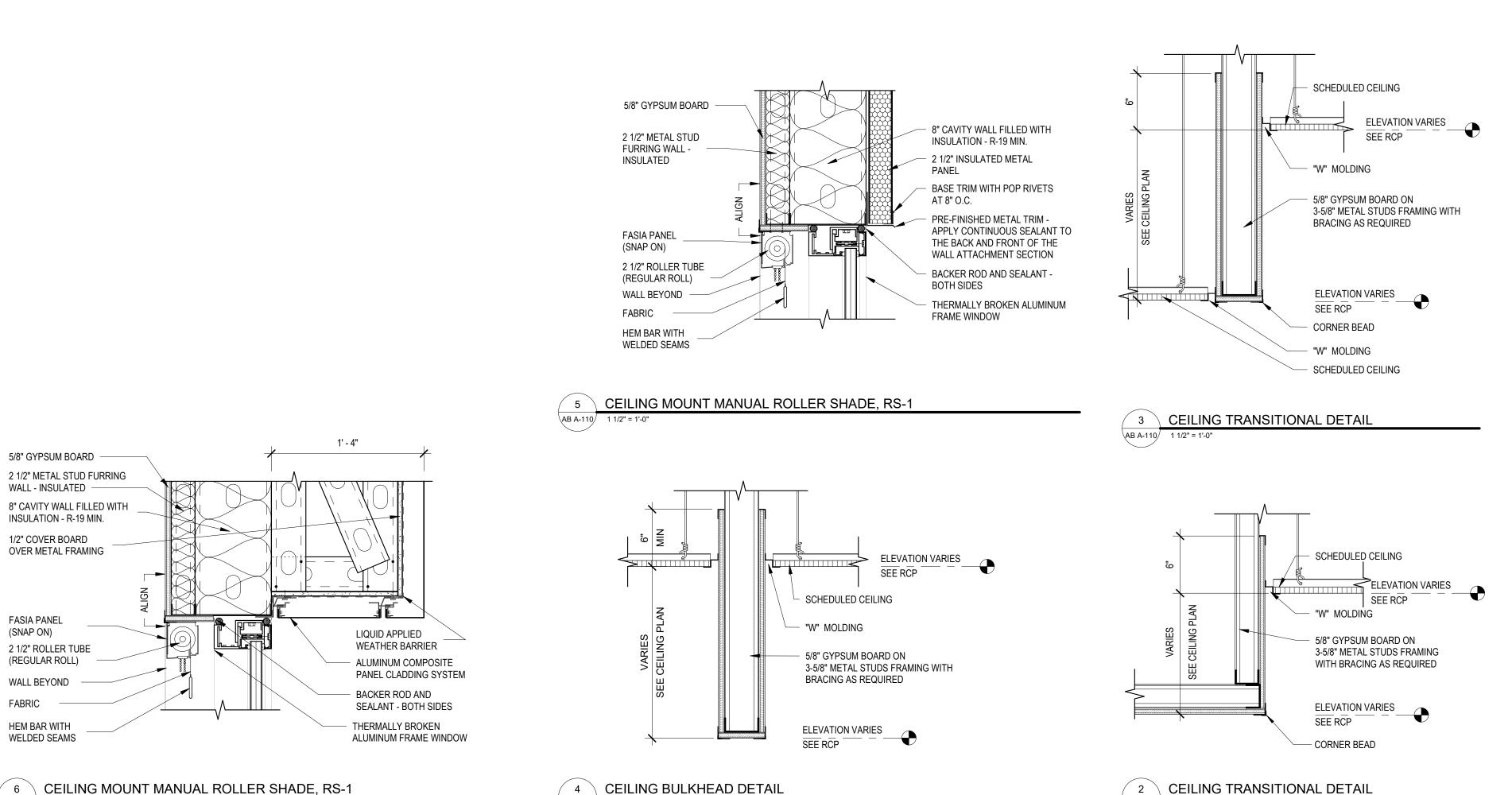
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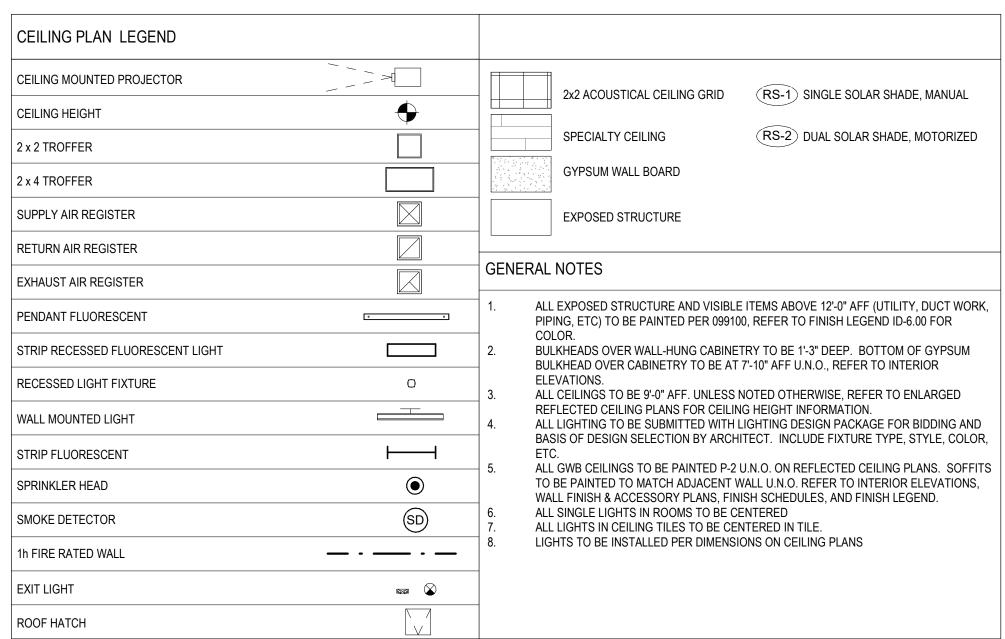
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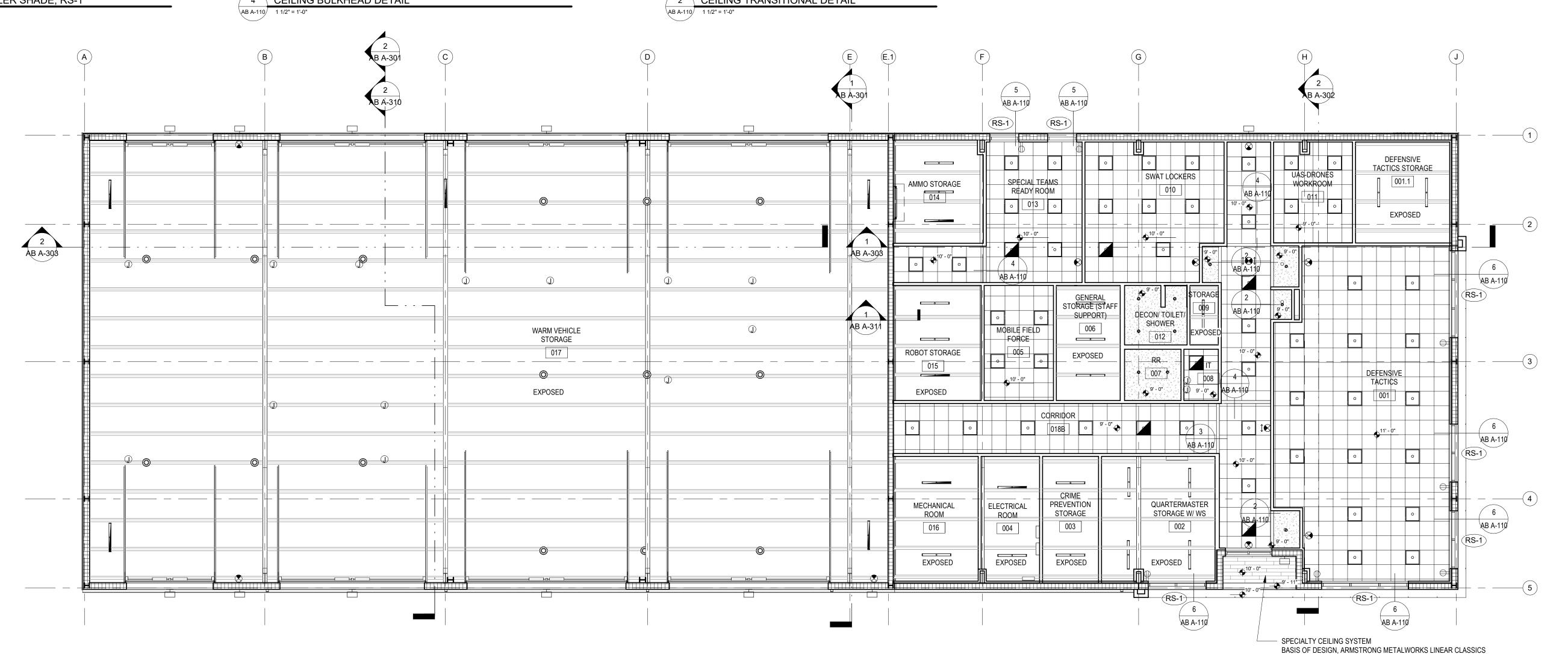
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NBW Architects P.A.









REFLECTED **CEILING PLAN** 

**Architects Design Group** 

lan A. Reeves, A.I.A. Susan M. Gantt, A.I.A., LEED AP Rodney McManus, LEED AP Fred Rambo, R.A.

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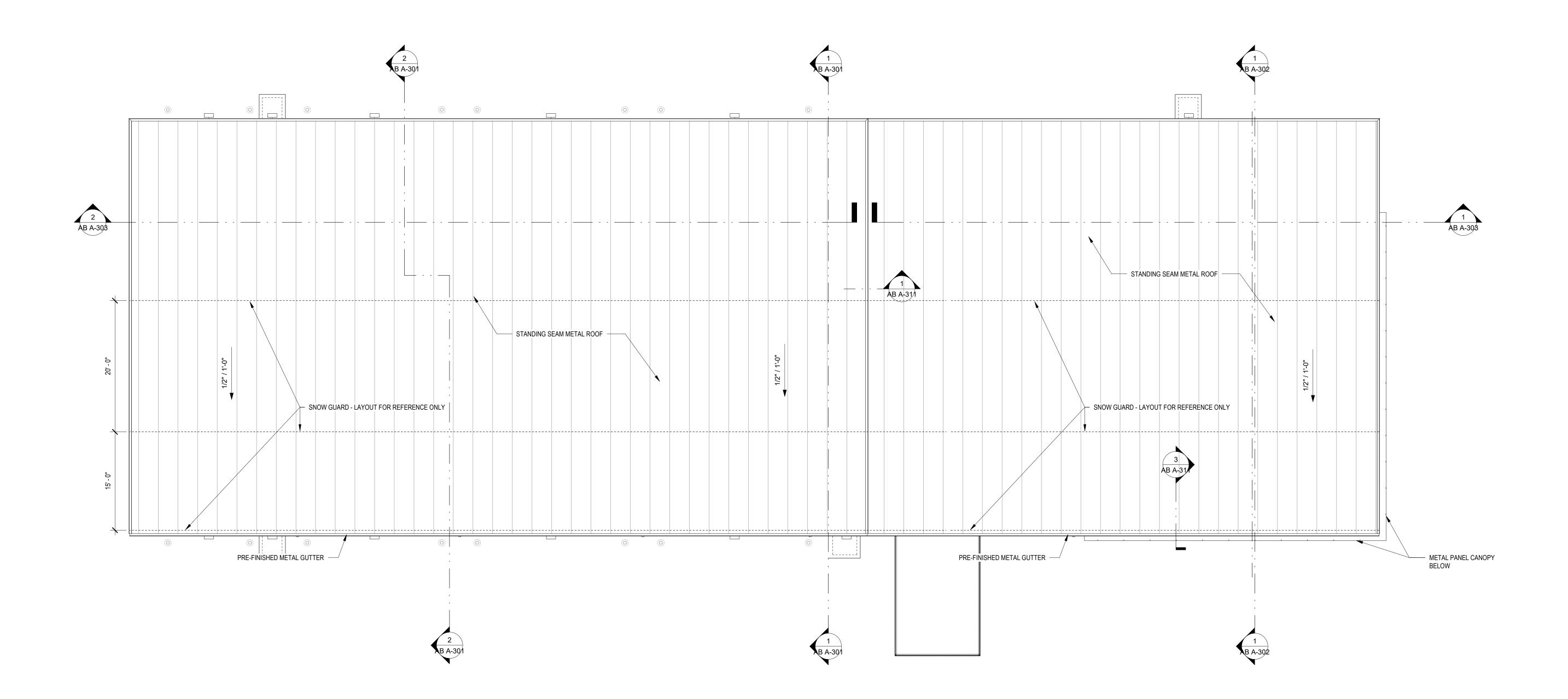
Issue Date: 2022.02.10

Drawn by: Checked by:

Project North:

**AB A-110** 

1 AUXILIARY BUILDING - REFLECTED CEILING PLAN







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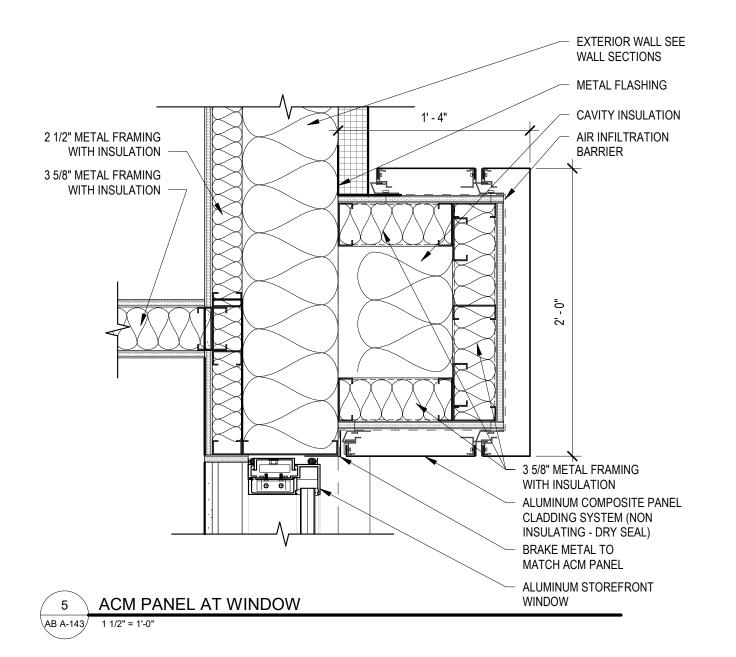
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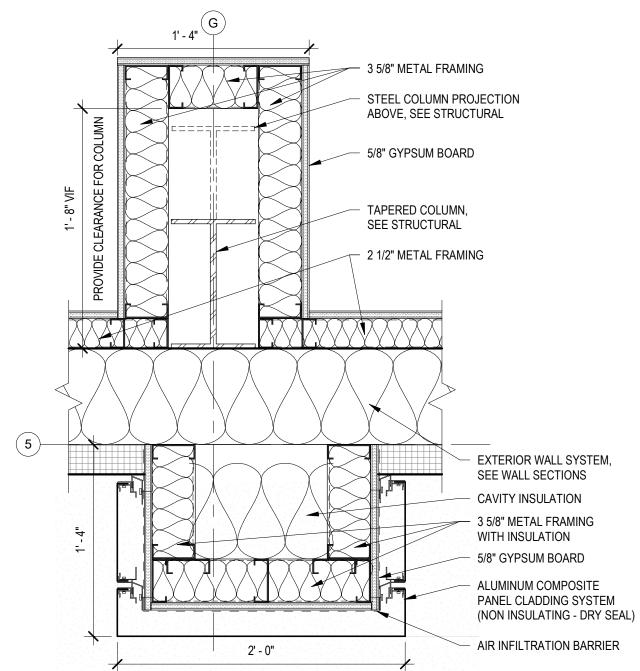
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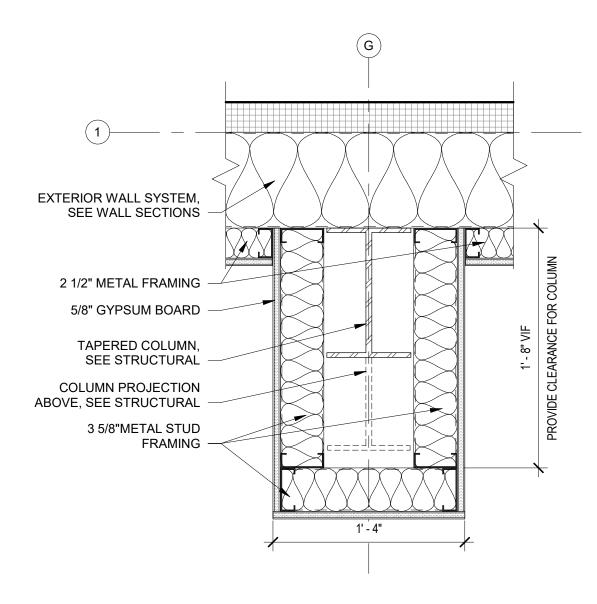


ROOF PLAN

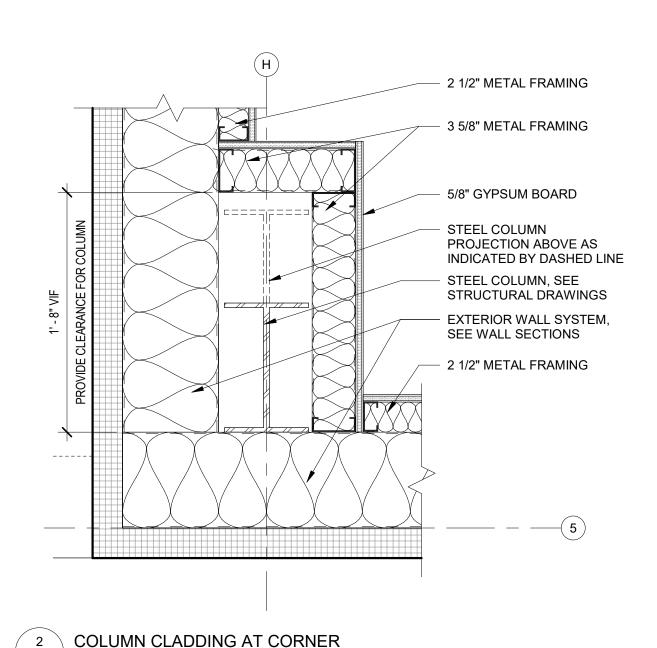


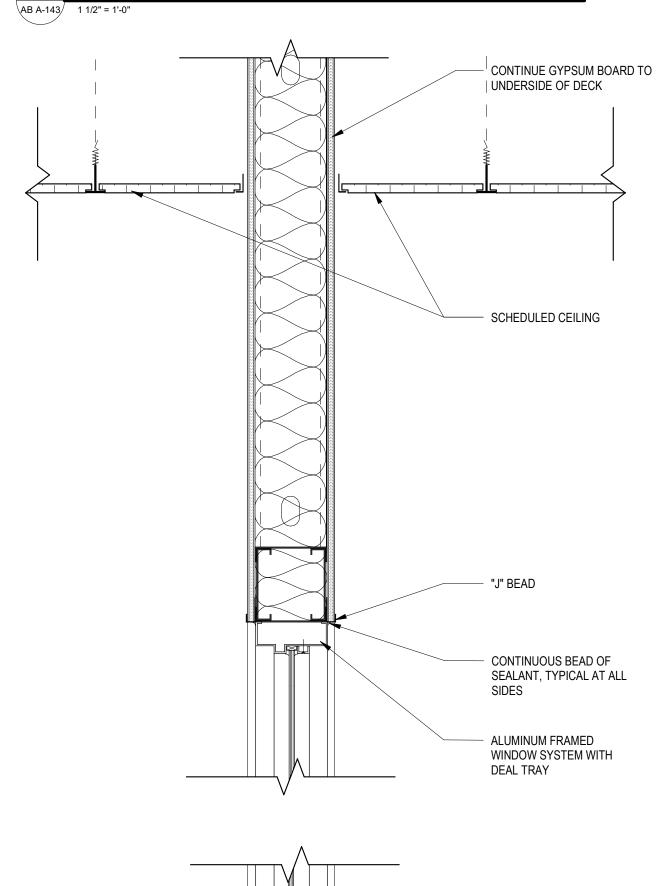


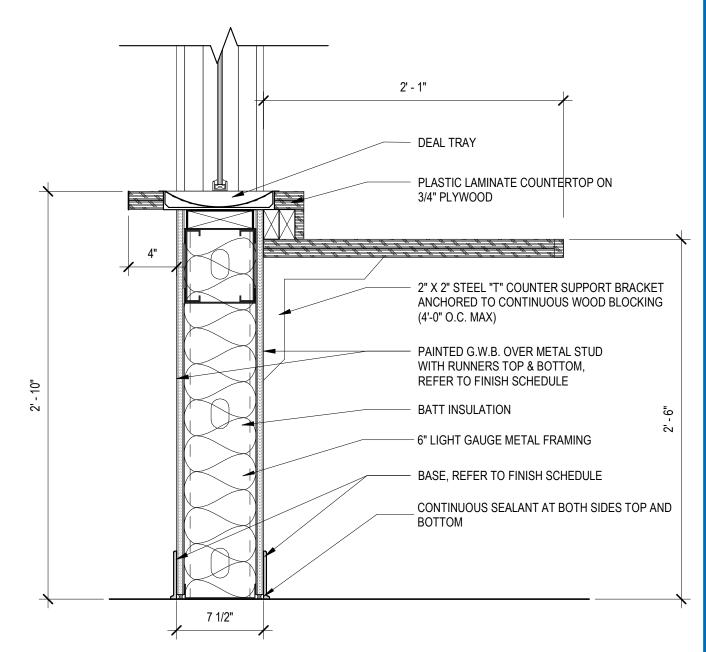












1 TRANSACTION WINDOW - PLASTIC LAMINATE

AB A-143 1 1/2" = 1'-0"

50

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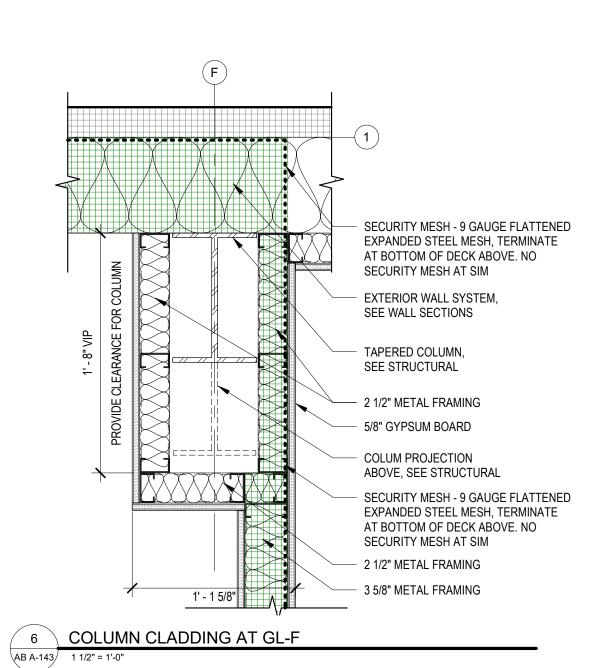
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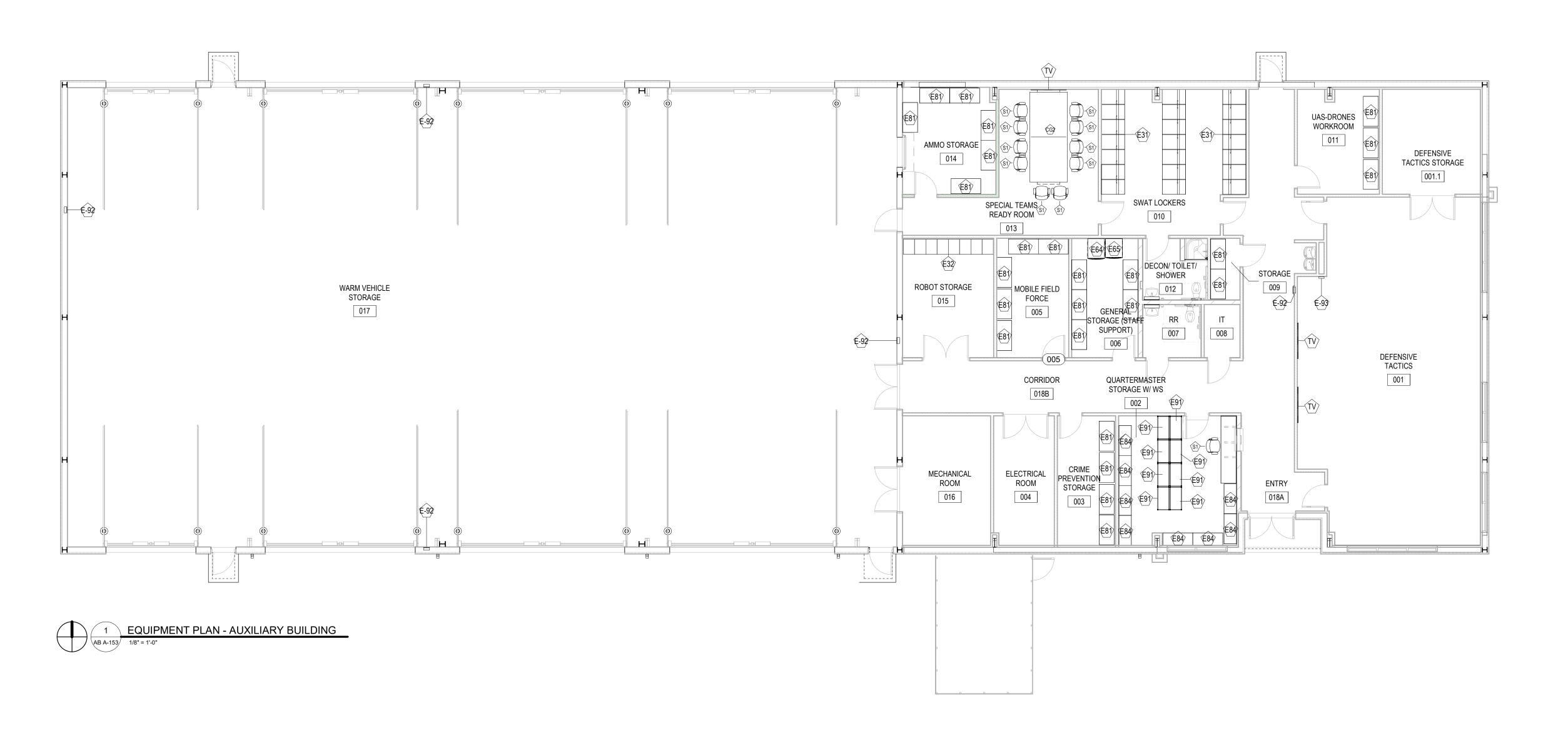
2022.02.10

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Checker

PLAN DETAILS & SECTIONS





	FURNITURE SCHEDULE									
TAG	COUNT	RESPONSIBILITY	DESCRIPTION	BASIS OF DESIGN	REQUIREMENTS					
CG2	1	OPOI	CONFERENCE TABLE - 12' W							
S1	11	OPOI	FLEXIBLE OR ARMLESS TASK CHAIR							

TAG	QTY	RESP	DESCRIPTION	BASIS OF DESIGN	COMMENTS	
E31	21	OPOI	STORAGE LOCKER WITH BENCH	SPACESAVER LOCKER WITH BENCH, 24"W x 37 1/8"D x 92"H	GC TO COORDINATE WITH OWNER	
E32	8	OPOI	STORAGE LOCKER	SPACESAVER FREESTYLE LOCKER, 18"W x 24"D x 80"H	GC TO COORDINATE WITH OWNER	
E64	1	OPOI	WASHER	MAYTAG FRONT LOAD WASHER METALLIC SLATE, 27"W x 32 15/16"D x 38 5/8" H	POWER, DRAINAGE, AND PLUMBING REQUIRED	FU
E65	1	OPOI	DRYER	MAYTAG FRONT LOAD DRYER METALLIC SLATE, 27"W x 329 7/8"D x 41 1/4"H	POWER REQUIRED	EQ
E81	25	OPOI	SHELVING 48"X24"X85"	SPACESAVER SHELVING, 48"W X 24"D X 85 1/4"H	GC TO COORDINATE WITH OWNER	
E84	8	OPOI	SHELVING 48"X20"X85"	SPACESAVER SHELVING, 48"W X 20"D X 85"H	GC TO COORDINATE WITH OWNER	
E91	8	OPOI	SHELVING 36"X18"X85"	SPACESAVER STAINLESS STEEL OPEN WIRE SHELVING 36"X18"X85"	GC TO COORDINATE WITH OWNER	ΔΙ
E92	5	CPCI	FIRE EXTINGUISHER CABINET -	ULINE, FIRE EXTINGUISHER CABINET, H-5790, 9"W x 5"D x 18"H	GC TO COORDINATE WITH OWNER	/ \
E93	1	OPOI	AED UNIT	PHILLIPS AED HEARTSTART HS1 - BATTERY OPERATED - 2.8"H x 8.3"W x 7.4"D	GC TO COORDINATE WITH OWNER	
-	•	•	•		•	



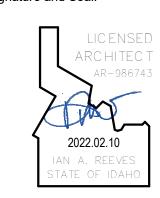
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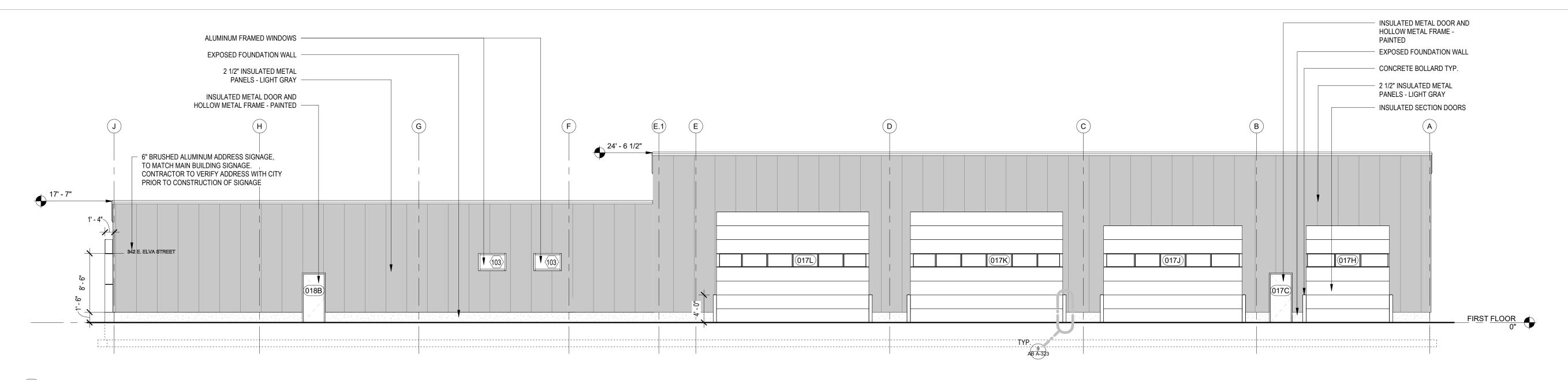
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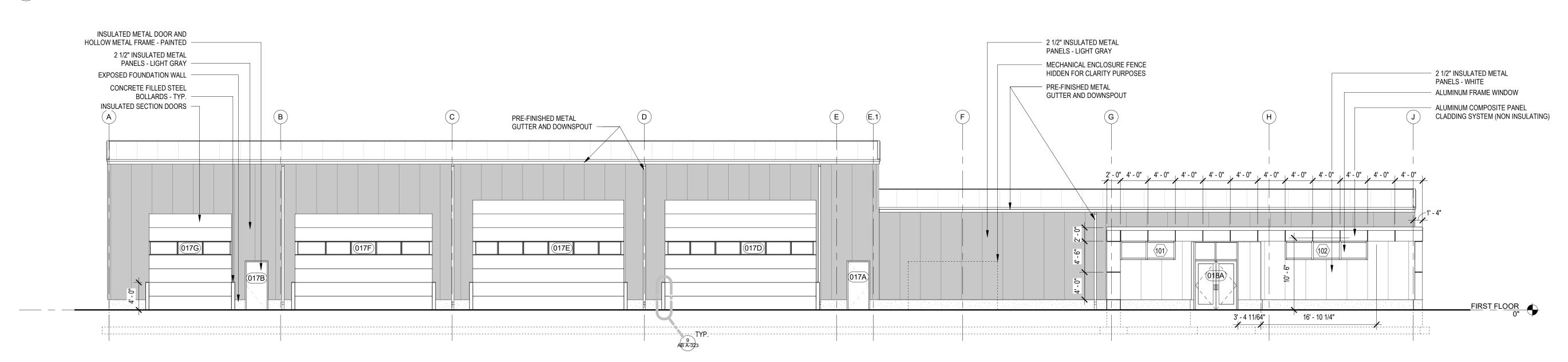
Project North:



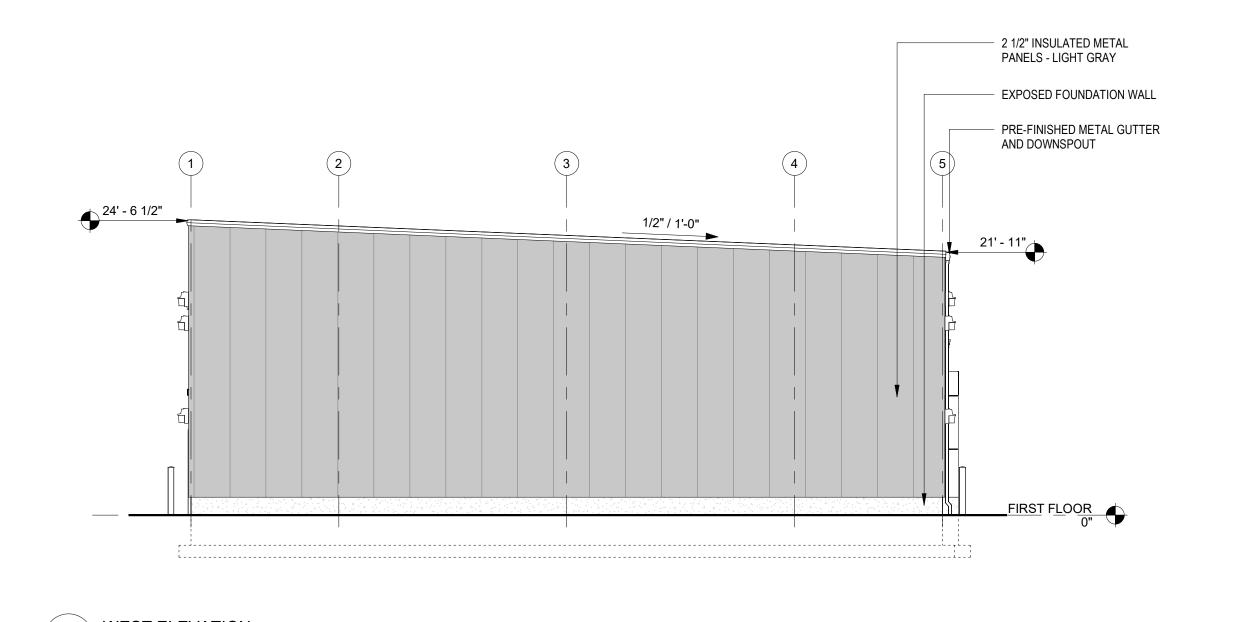
FURNITURE AND EQUIPMENT PLAN

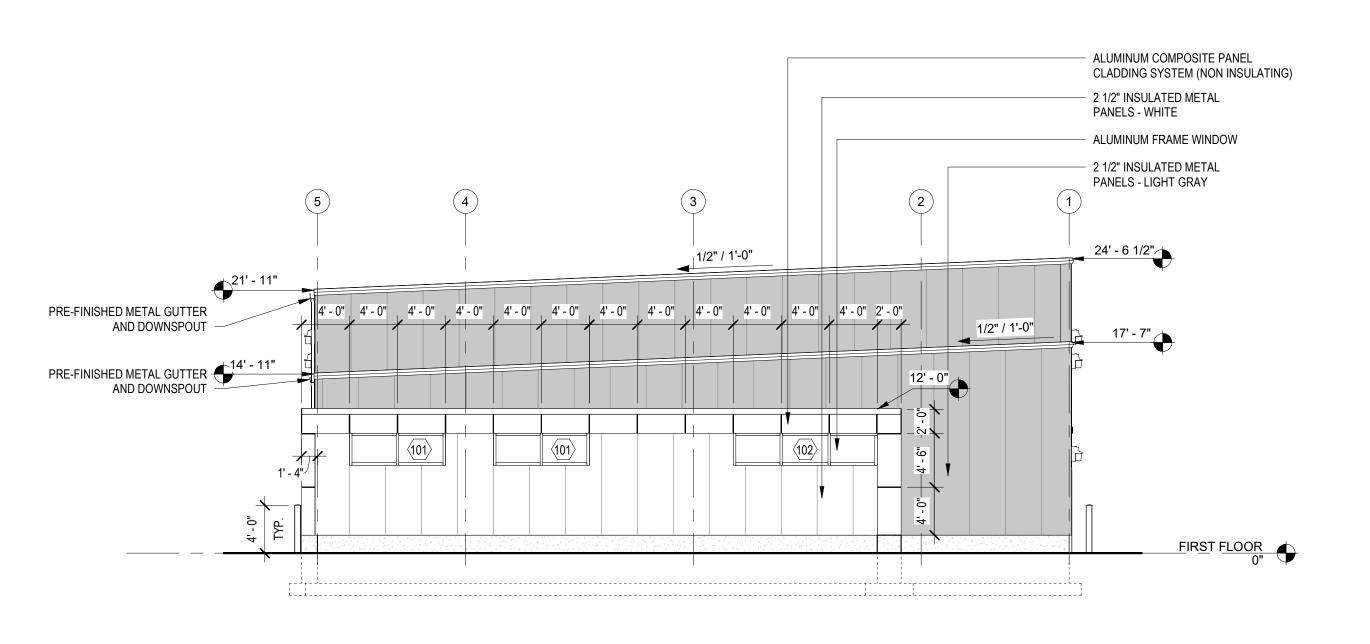


4 NORTH ELEVATION



3 SOUTH ELEVATION
AB A-201 1/8" = 1'-0"





1 EAST ELEVAT
AB A-201 1/8" = 1'-0"

Solve Start Constitution of the start of the

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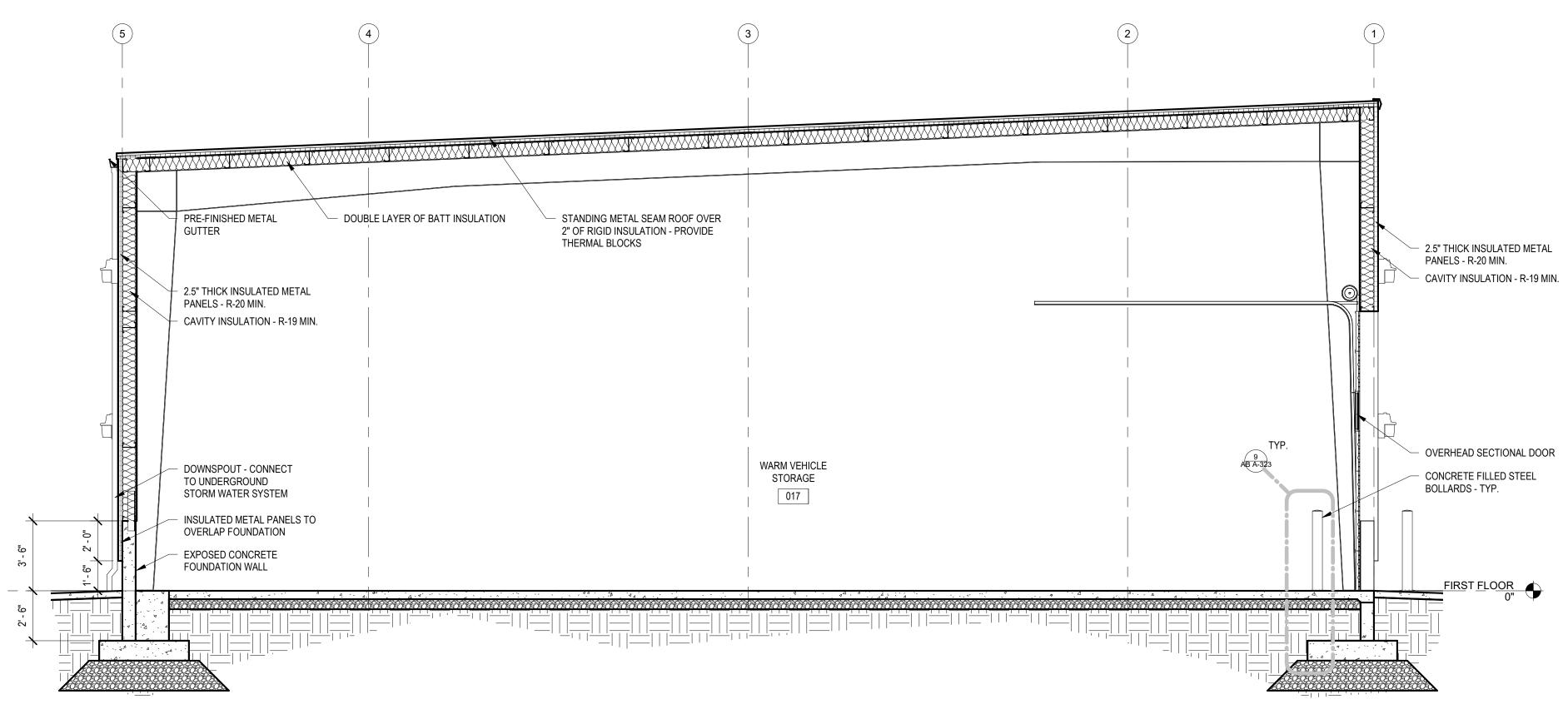
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**ELEVATIONS** 

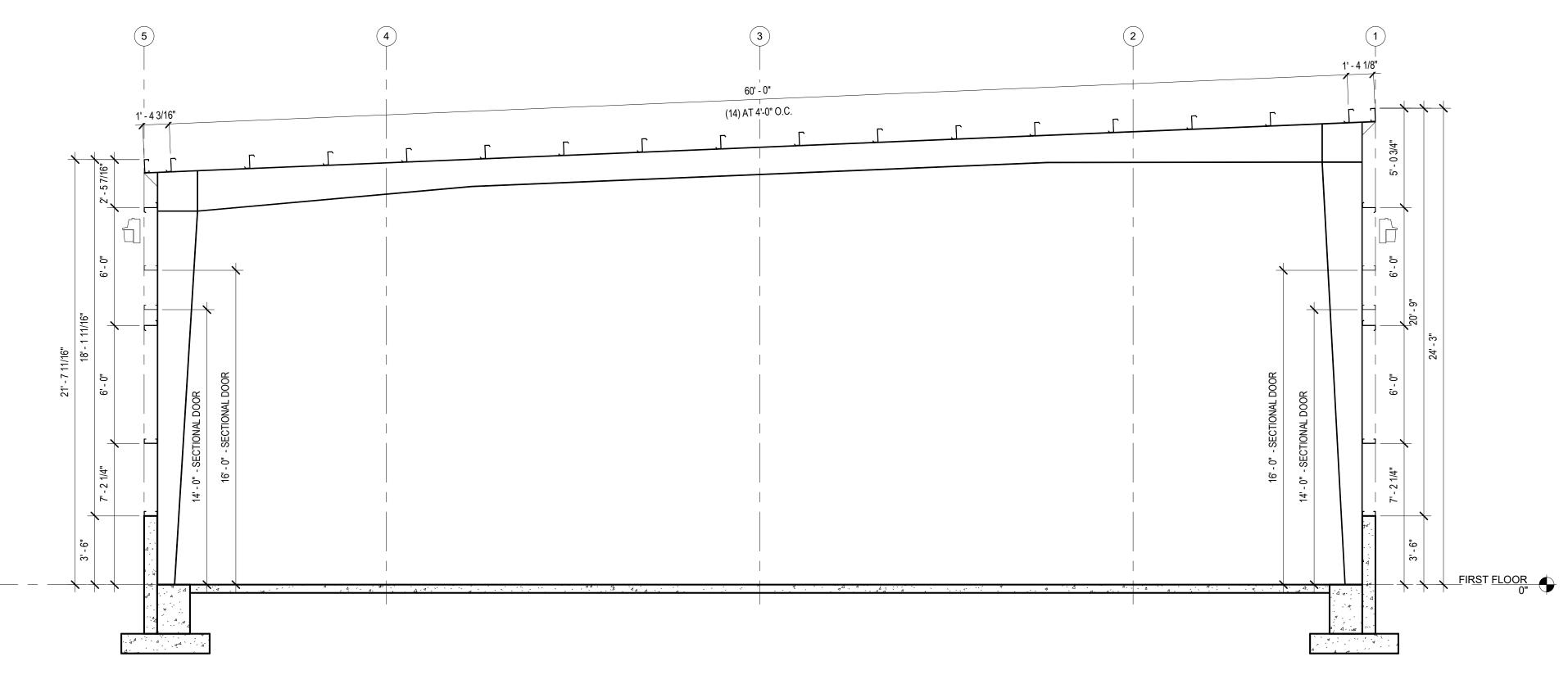
**GENERAL SECTION NOTES** 

1. FOOTING SIZES ARE FOR REFERENCE ONLY.



2 BUILDING SECTION - WARM VEHICLE STORAGE

AB A-301) 1/4" = 1'-0"





50

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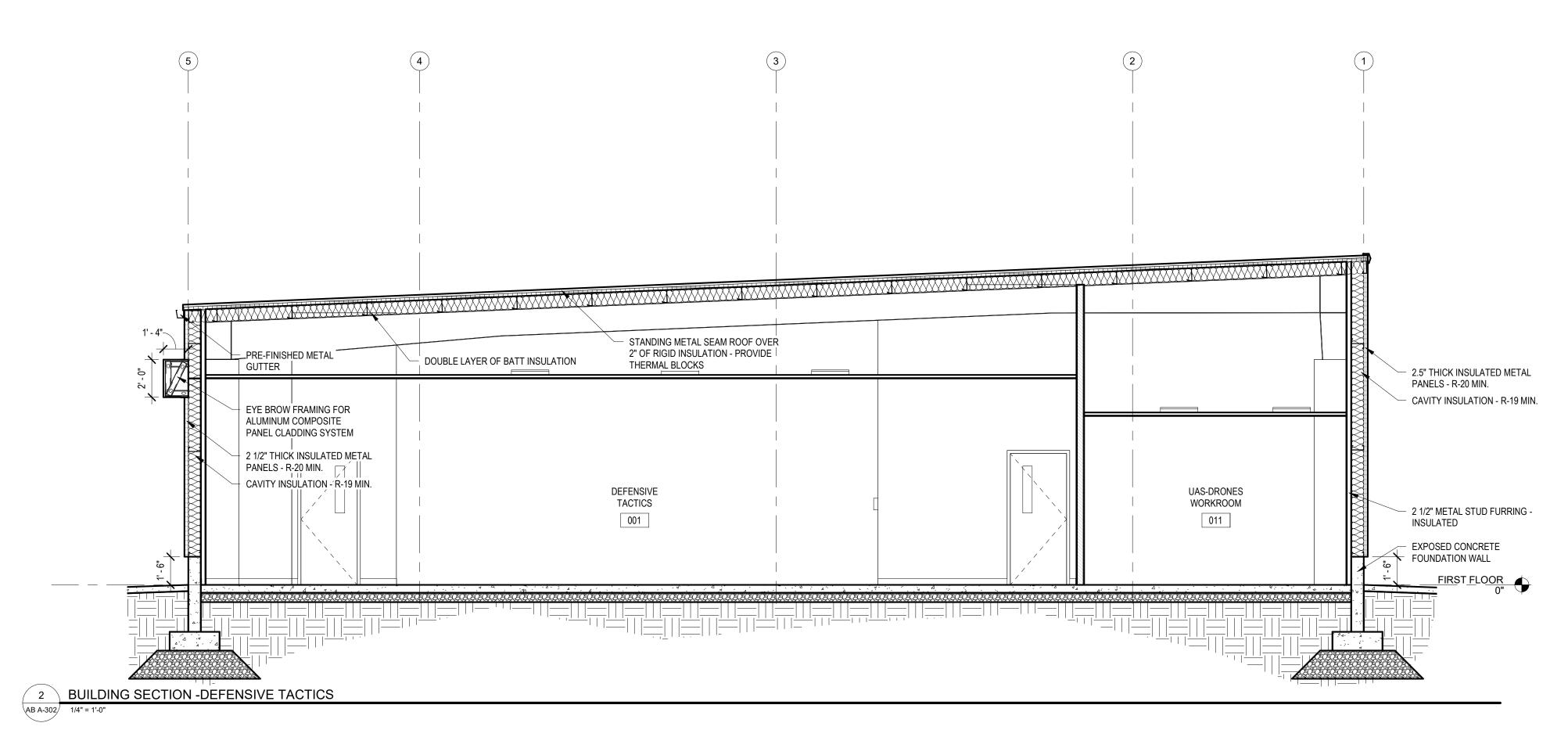
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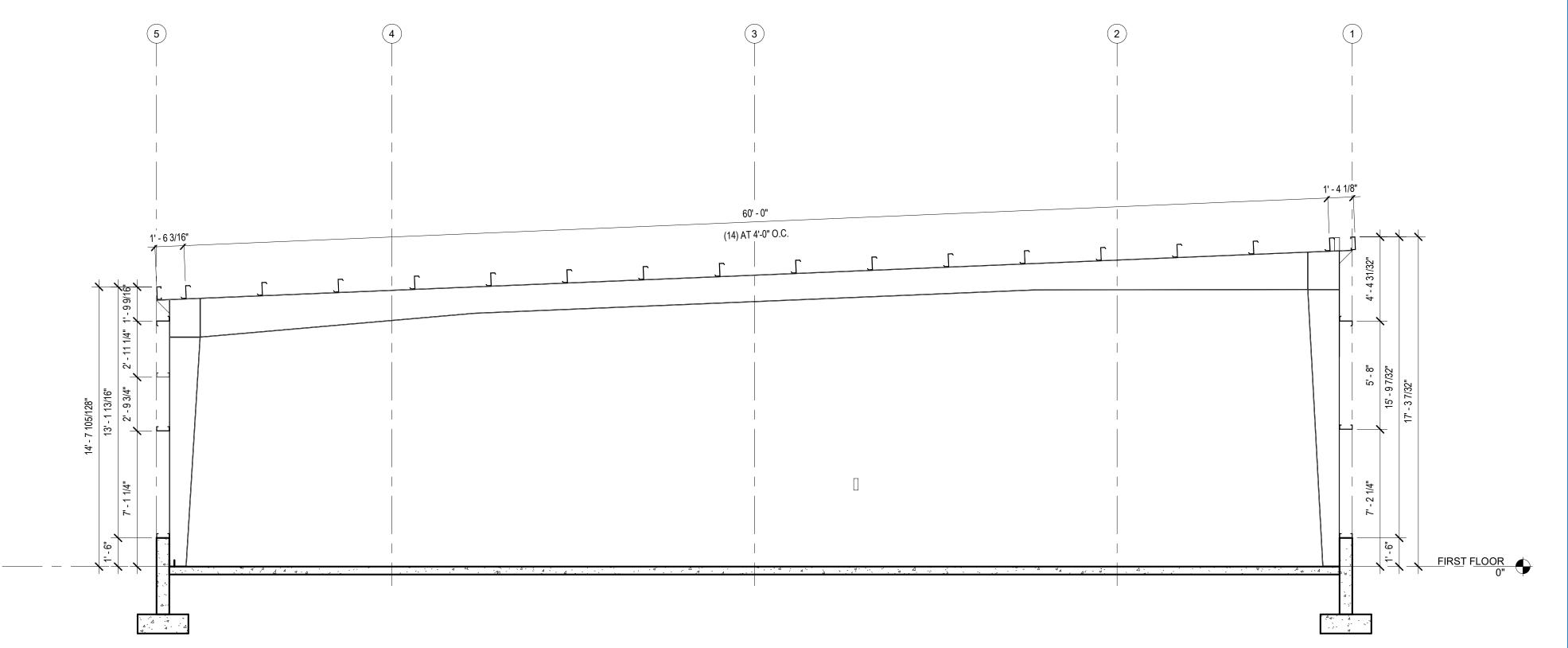
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BUILDING SECTIONS

GENERAL SECTION NOTES

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1 BUILDING SECTION - STRUCTURE 2

AB A-302 1/4" = 1'-0"



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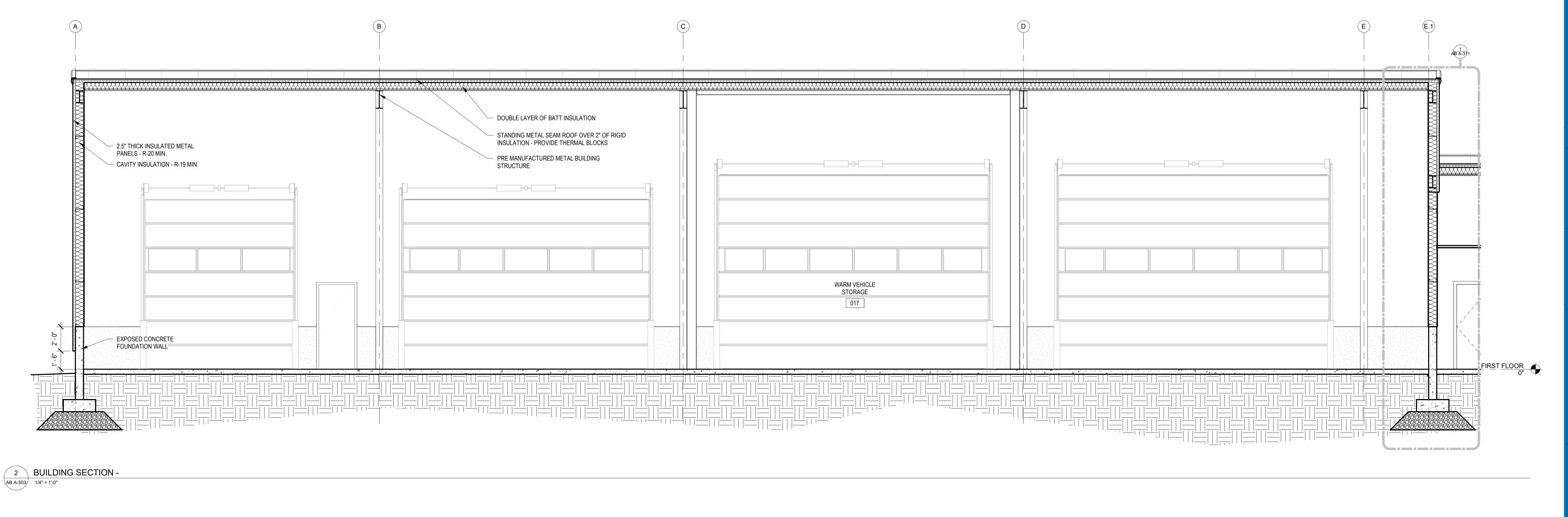
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Project North:

BUILDING

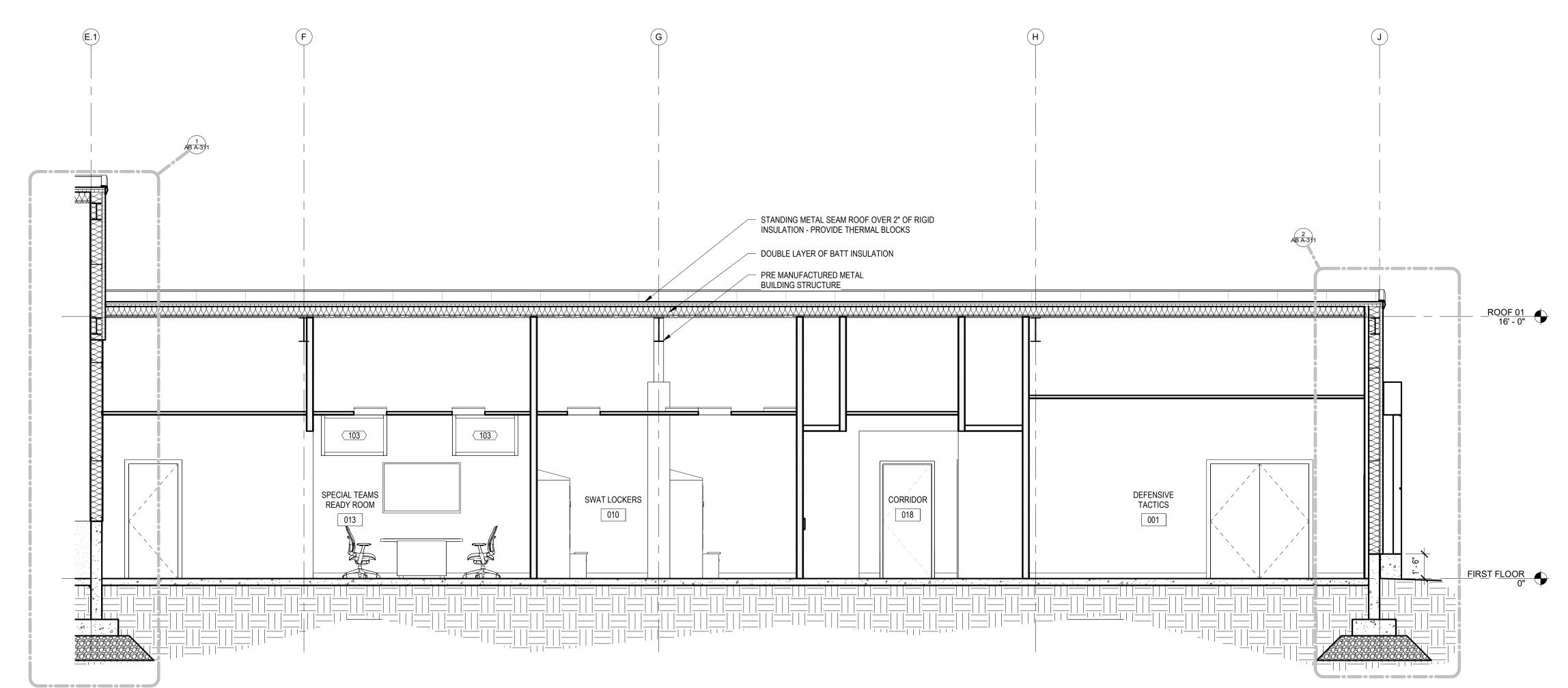
SECTIONS

AB A-302



1 BUILDING SECTION

AB A-303 1/4" = 1'-0"





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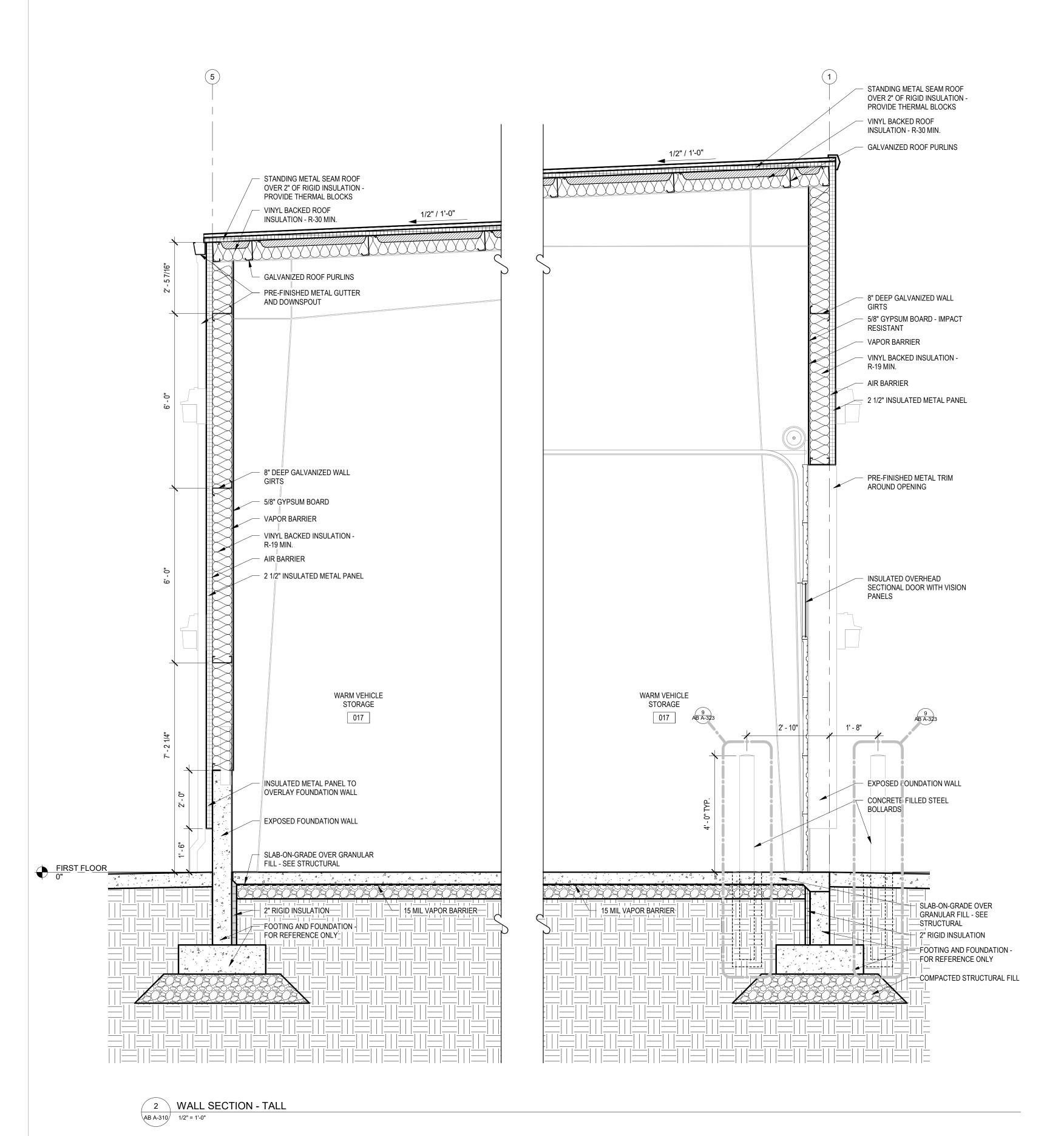
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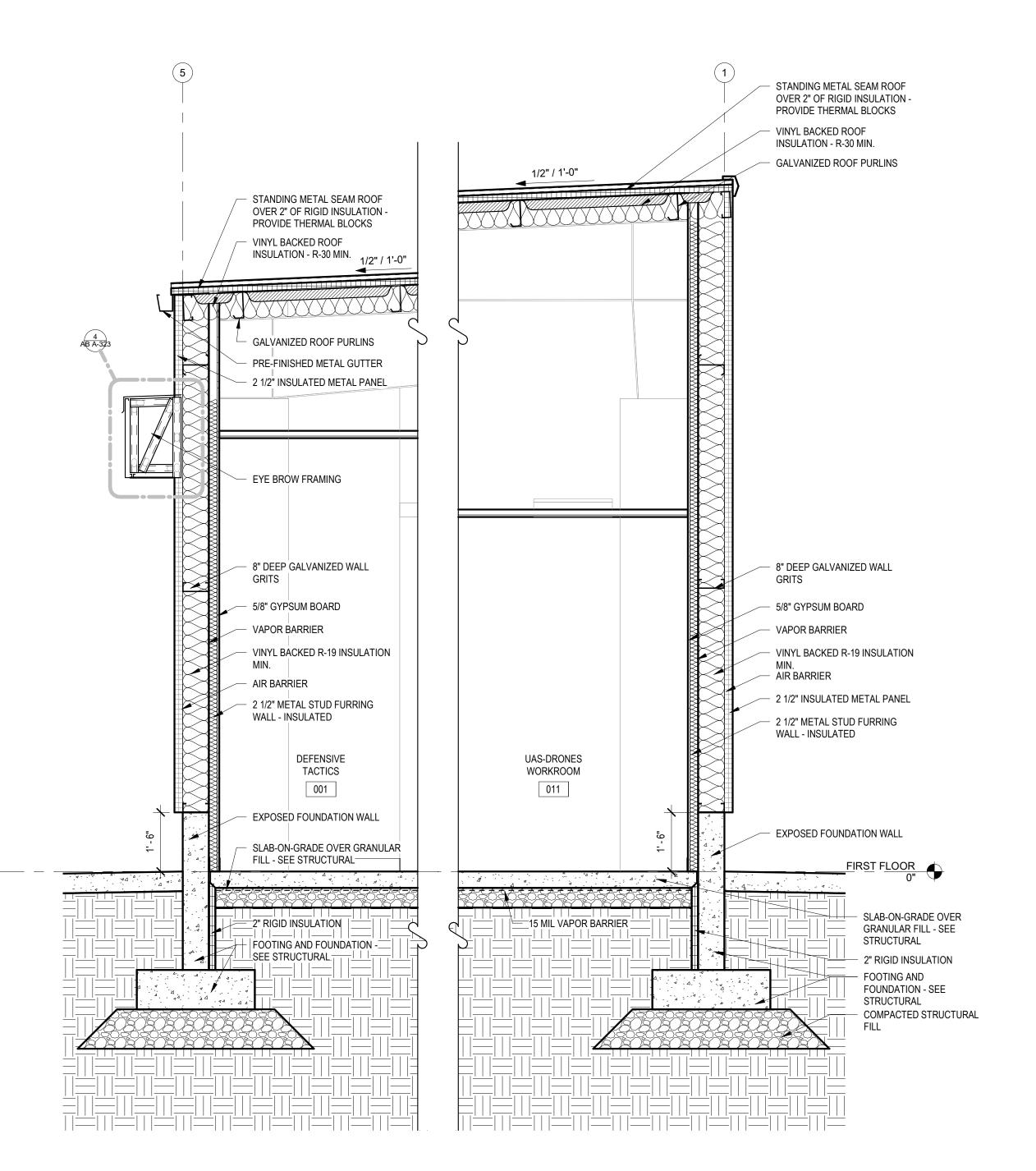
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**BUILDING SECTIONS** 





1 WALL SECTION - SHORT

AB A-310 1/2" = 1'-0"

500

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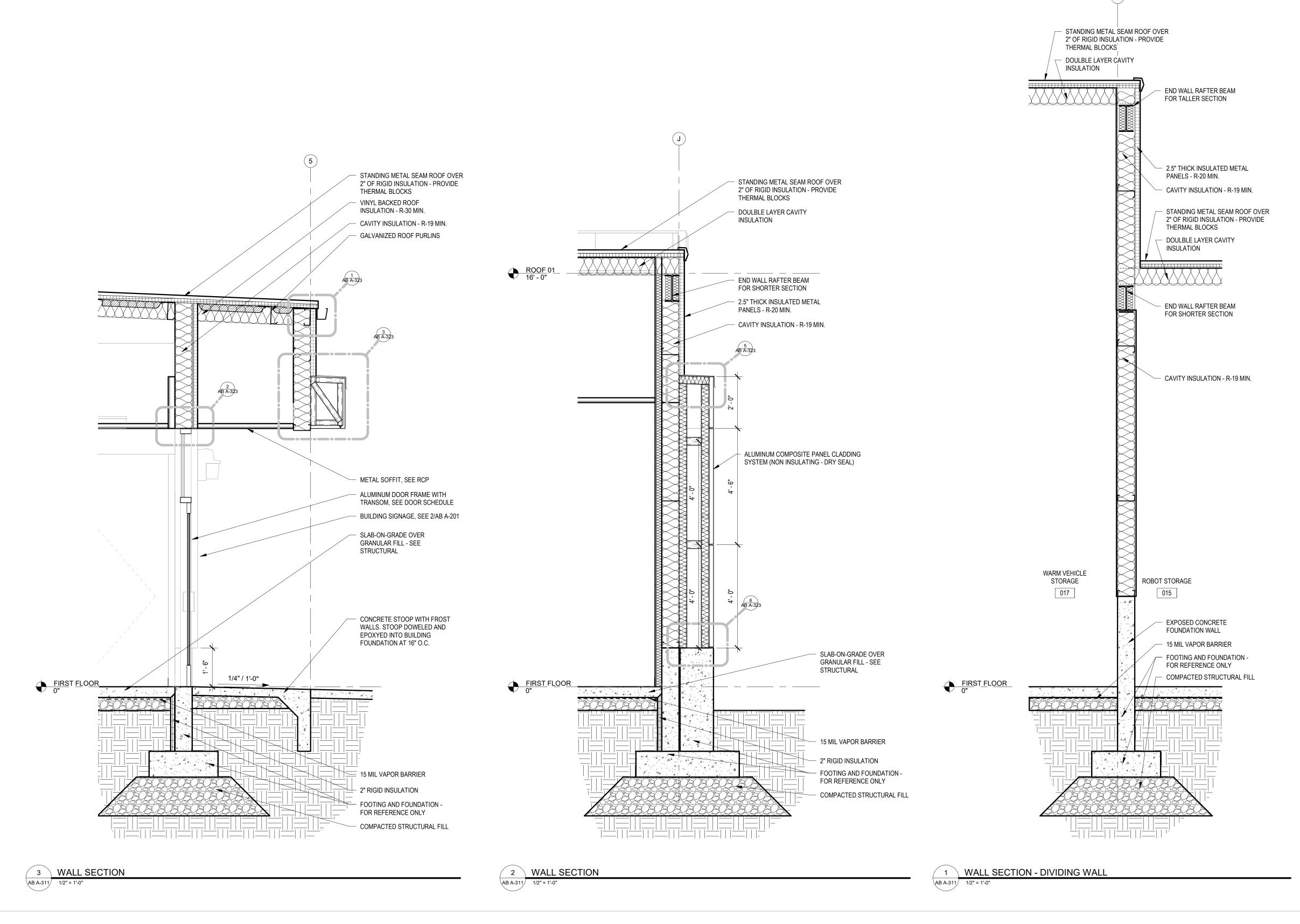
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Issue Date: **2022.02.10** 

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WALL SECTIONS



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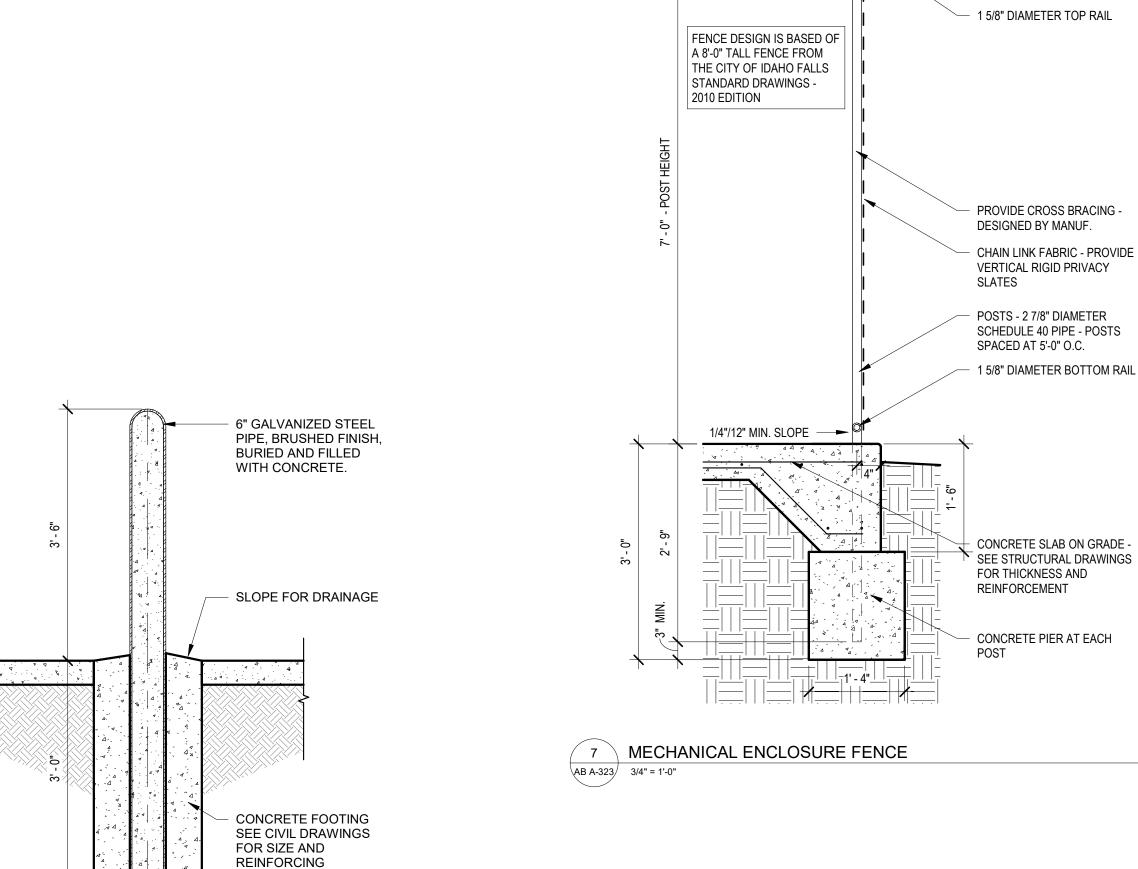
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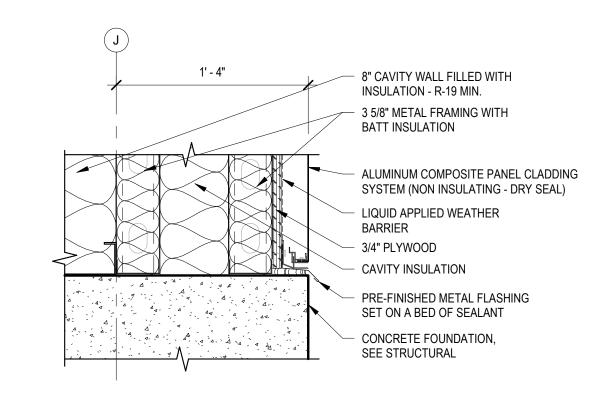
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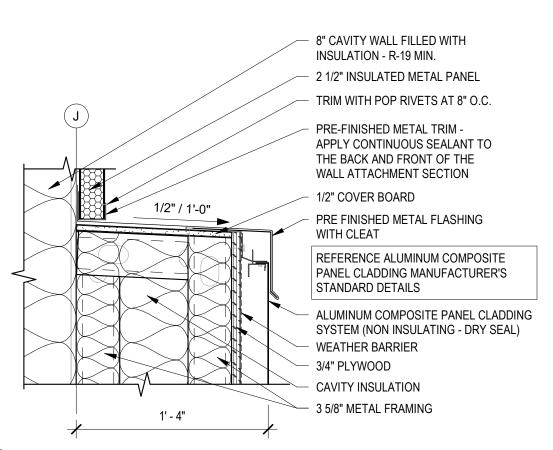
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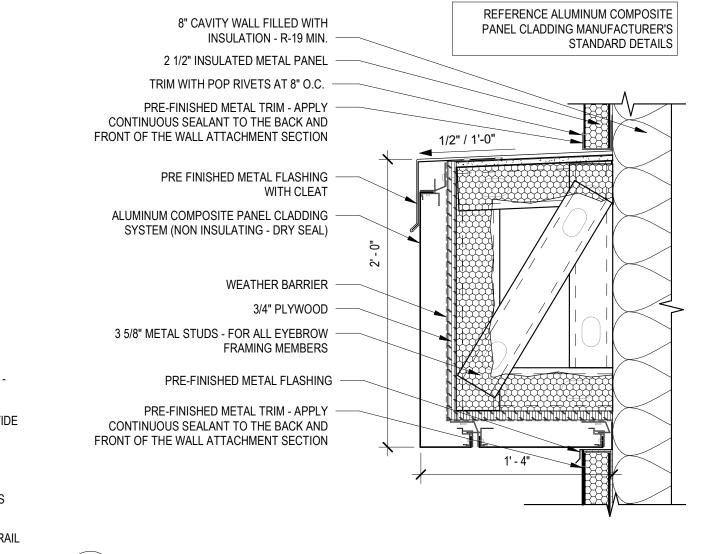
WALL SECTIONS







STANDING METAL SEAM ROOF OVER 2" OF RIGID INSULATION - PROVIDE THERMAL BLOCKS 8" CAVITY WALL FILLED WITH INSULATION - R-19 MIN. PRE-FINISHED METAL TRIM - APPLY CONTINUOUS SEALANT TO THE BACK AND PRE-FINISHED METAL FLASHING WITH PRE-FINISHED METAL GUTTER - GALVANIZED ROOF PURLINS - 2 1/2" INSULATED METAL PANEL 1 GUTTER



4 \ ACM FRAMING SECTION

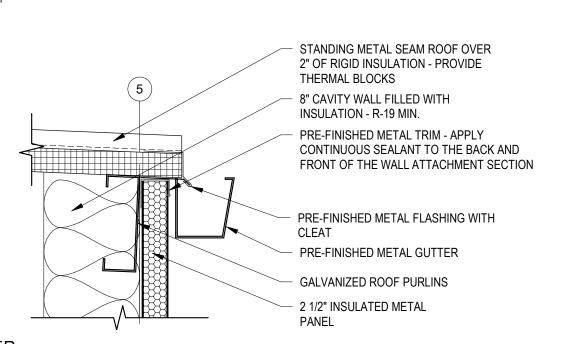
AB A-323 1 1/2" = 1'-0"

2 METAL SOFFIT AT WINDOW

POST CAPS

- 8" CAVITY WALL FILLED WITH INSULATION - R-19 MIN. - 2 1/2" INSULATED METAL PANEL TRIM WITH POP RIVETS AT 8" O.C. PRE-FINISHED METAL TRIM - APPLY CONTINUOUS SEALANT TO THE BACK AND FRONT OF THE WALL ATTACHMENT SECTION 1/2" COVER BOARD 1/2" / 1'-0" PRE FINISHED METAL FLASHING WITH CLEAT REFERENCE ALUMINUM COMPOSITE PANEL CLADDING MANUFACTURER'S STANDARD DETAILS - ALUMINUM COMPOSITE PANEL CLADDING SYSTEM (NON INSULATING - DRY SEAL) - WEATHER BARRIER - 3/4" PLYWOOD 3 5/8" METAL STUDS - FOR ALL EYEBROW FRAMING MEMBERS <del>-</del>+ PRE-FINISHED METAL FLASHING METAL SOFFIT ON METAL FRAMING, SEE RCP 3 ACM FRAMING SECTION

> - 2 1/2" METAL STUD FURRING WALL - INSULATED - 8" CAVITY WALL FILLED WITH INSULATION - R-19 MIN. TREATED WOOD BLOCKING - 2 1/2" INSULATED METAL PRE-FINISHED METAL TRIM -APPLY CONTINUOUS SEALANT TO THE BACK AND FRONT OF THE WALL ATTACHMENT SECTION METAL SOFFIT ON METAL FRAMING, SEE RCP TRIM WITH POP RIVETS AT 8" O.C. BACKER ROD AND SEALANT -**BOTH SIDES** THERMALLY BROKEN ALUMINUM FRAME DOOR/WINDOW SYSTEM



Susan M. Gantt, A.I.A., LEED AP Rodney McManus, LEED AP Fred Rambo, R.A.

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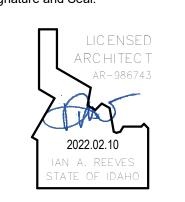
Architects Design Group

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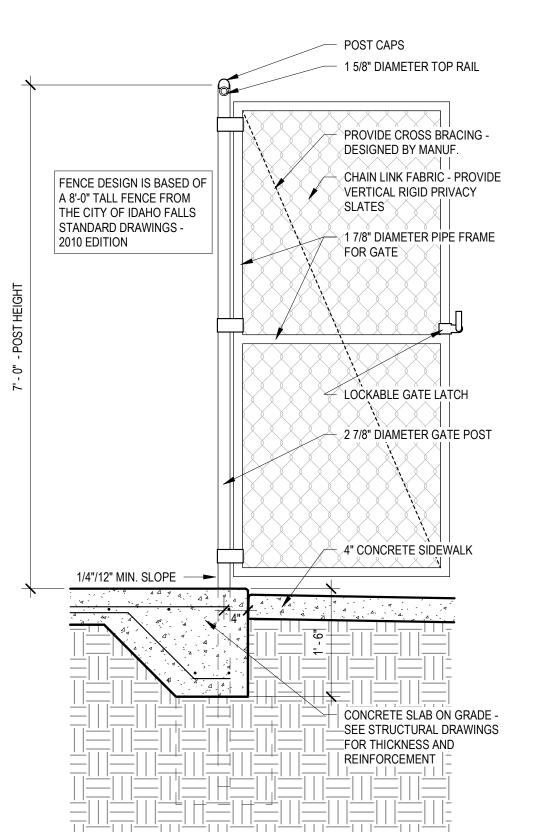
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2022.02.10

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**ROOF + VERTICAL DETAILS** 

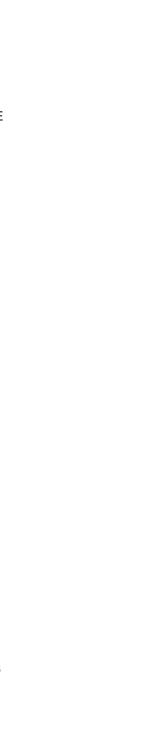
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MECHANICAL ENCLOSURE GATE

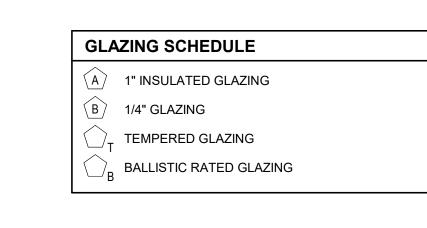
9 BOLLARD SECTION

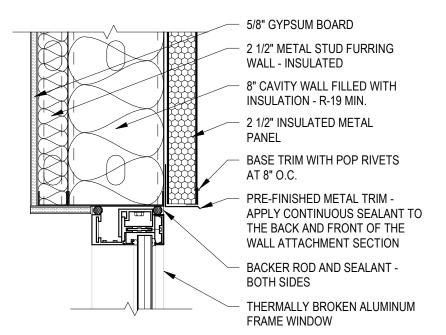
AB A-323 3/4" = 1'-0"

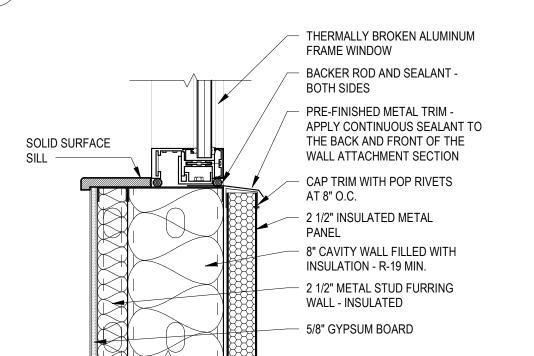


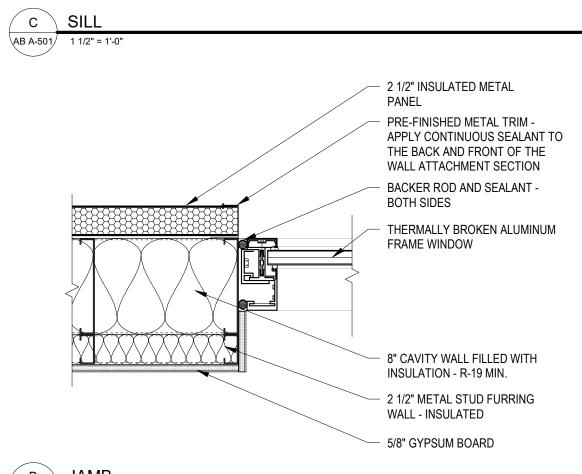
6 ACM FRAMING

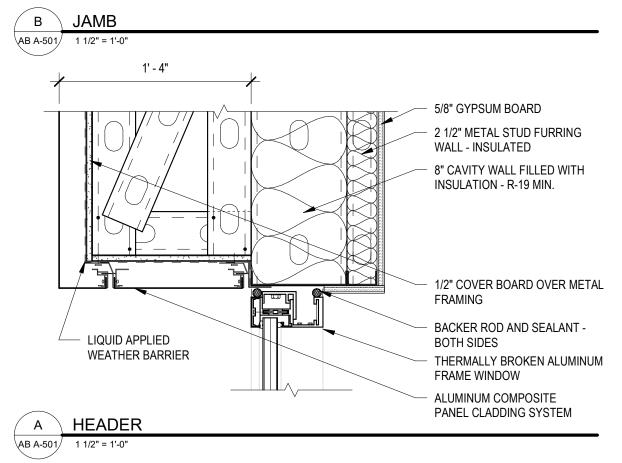
ACM FRAMING

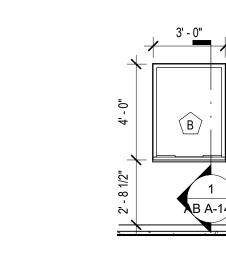




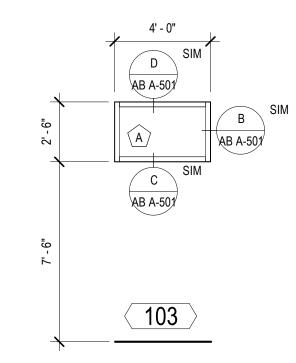




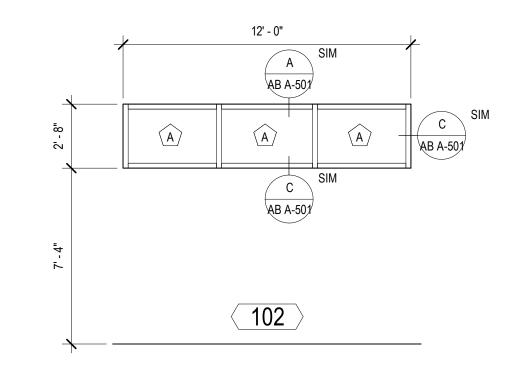




4 WINDOW ELEVATION
AB A-501 1/4" = 1'-0"



3 WINDOW ELEVATION
AB A-501 1/4" = 1'-0"



2 WINDOW ELEVATION

AB A-501 1/4" = 1'-0"

8'-0"

AB A-501 SIM

AB A-501

1 WINDOW ELEVATION

AB A-501 1/4" = 1'-0"



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Fred Rambo, R.A.



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IDAHO FALLS
POLICE
HEADQUARTERS
- AUXILIARY
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Project No. **1047-20A** 

Revisions:

BID ISSUE

Issue Date: 2022.02.10

Drawn by: Checked by:

Checker

WINDOW SCHEDULE + DETAILS

	AUXILIARY - EXTERIOR AND INTERIOR DOOR SCHEDULE														
		DC	OOR				FRAME		CIDE	400500				LIADDIA/ADE	
DOOR NO.	ELEVATION TYPE	WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FIRE RATING	ACCESS CONTROL	HEAD	JAMB	SILL	HARDWARE SET	COMMENTS
001.1	DBL F	6' - 0"	7' - 0"	WD	PLAM	F1	НМ	PT			3/AB-A602	2/AB-A602	1/AB-A602	40.0	
001A	N	3' - 0"	7' - 0"	WD	PLAM	F1	НМ	PT			3/AB-A602	2/AB-A602	1/AB-A602	38.0	
001B	N	3' - 0"	7' - 0"	WD	PLAM	F1	НМ	PT			3/AB-A602	2/AB-A602	1/AB-A602	38.0	
002	D	3' - 0"	7' - 0"	WD	PLAM	F1	НМ	PT		CR	3/AB-A602	2/AB-A602	1/AB-A602	39.0	
003	F	3' - 0"	7' - 0"	WD	PLAM	F1	НМ	PT			3/AB-A602	1/AB-A602	2/AB-A602	42.0	
004	DBL F	6' - 0"	7' - 0"	WD	PLAM	F1	НМ	PT		CR	3/AB-A602	2/AB-A602	1/AB-A602	24.0	
005	F	3' - 0"	7' - 0"	WD	PLAM	F1	НМ	PT			3/AB-A602	1/AB-A602	2/AB-A602	51.0	
006	F	3' - 0"	7' - 0"	WD	PLAM	F1	НМ	PT			3/AB-A602	1/AB-A602	2/AB-A602	51.0	
007	F	3' - 0"	7' - 0"	WD	PLAM	F1	НМ	PT			3/AB-A602	1/AB-A602	2/AB-A602	48.0	
800	F	3' - 0"	7' - 0"	WD	PLAM	F1	НМ	PT		CR	3/AB-A602	1/AB-A602	2/AB-A602	31.0	
009	F	3' - 0"	7' - 0"	WD	PLAM	F1	НМ	PT			3/AB-A602	1/AB-A602	2/AB-A602	44.0	
010	F	3' - 0"	7' - 0"	WD	PLAM	F1	НМ	PT			3/AB-A602	1/AB-A602	2/AB-A602	57.0	
011	F	3' - 0"	7' - 0"	WD	PLAM	F1	НМ	PT			3/AB-A602	1/AB-A602	2/AB-A602	51.0	
012	F	3' - 0"	7' - 0"	WD	PLAM	F1	НМ	PT			3/AB-A602	1/AB-A602	2/AB-A602	48.0	
013	F	3' - 0"	7' - 0"	WD	PLAM	F1	НМ	PT			3/AB-A602	1/AB-A602	2/AB-A602	57.0	
014A	F	3' - 0"	7' - 0"	НМ	PT	F1	НМ	PT		CR	3/AB-A602	1/AB-A602	2/AB-A602	30.0	
014B	OHC	4' - 0"	8' - 0"	-	-		-	-						61.0	
015	DBL F	6' - 0"	7' - 0"	WD	PT	F1	НМ	PT			3/AB-A602	2/AB-A602	1/AB-A602	50.0	
016	DBL F	6' - 0"	7' - 0"	WD	PT	F1	НМ	PT		CR	3/AB-A602	2/AB-A602	1/AB-A602	23.0	
017A	F	3' - 0"	7' - 0"	НМ	PT	F1	НМ	PT		CR	3/AB-A602	2/AB-A602	1/AB-A602	8.0	
017B	F	3' - 0"	7' - 0"	НМ	PT	F1	НМ	PT		CR	3/AB-A602	2/AB-A602	1/AB-A602	8.0	
017C	F	3' - 0"	7' - 0"	НМ	PT	F1	НМ	PT		CR	3/AB-A602	2/AB-A602	1/AB-A602	8.0	
017D	OHSD	22' - 0"	16' - 0"	-	-									62.0	
017E	OHSD	22' - 0"	16' - 0"	-	-									62.0	
017F	OHSD	20' - 0"	14' - 0"	-	-									62.0	
017G	OHSD	12' - 0"	14' - 0"	-	-									62.0	
017H	OHSD	12' - 0"	14' - 0"	-	-									62.0	
017J	OHSD	20' - 0"	14' - 0"	-	-									62.0	
017K	OHSD	22' - 0"	16' - 0"	-	-									62.0	
017L	OHSD	22' - 0"	16' - 0"	-	-									62.0	
018A	FG	6' - 0"	7' - 1 1/2"	AL	ANOD	F3	AL	ANOD		CR	9/AB-A602	8/AB-A602	7/AB-A602	3.0	
018B	F	3' - 0"	7' - 0"	HM	PT	F1	НМ	PT		CR	3/AB-A602	2/AB-A602	1/AB-A602	8.0	
018C	DBL F	6' - 0"	7' - 0"	WD	PT	F1	НМ	PT			3/AB-A602	2/AB-A602	1/AB-A602	27.0	
018D	F	3' - 0"	7' - 0"	WD	PT	F1	НМ	PT			3/AB-A602	1/AB-A602	2/AB-A602	28.0	

	AUXILIARY -GATES DOOR SCHEDULE														
DOOR FRAME  DOOR DOOR WIDTH HEIGHT DOOR DOOR FRAME FRAME FRAME FINISH  NO. TYPE MATERIAL FINISH TYPE MATERIAL FINISH						FIRE RATING	ACCESS CONTROL	HEAD	JAMB	SILL	HARDWARE SET	COMMENTS			
G019	GATE 1A	3' - 0"	6' - 10"	CHAN LINK INFILL		-	STL	-						63.0	

SEE SCHEDULE

0

OVERHEAD COILING DOOR

ROLL UP SERVICE DOORS ESD 10

BASIS OF DESIGN

OHC

SEE SCHEDULE

FLUSH

DOOR ELEVATIONS

SEE SCHEDULE

NARROW LIGHT

SEE SCHEDULE

LOUVER

LOUVERED (TOP OR BOTTOM)

SEE SCHEDULE

DUTCH DOOR

SEE SCHEDULE

FG

FULL GLASS

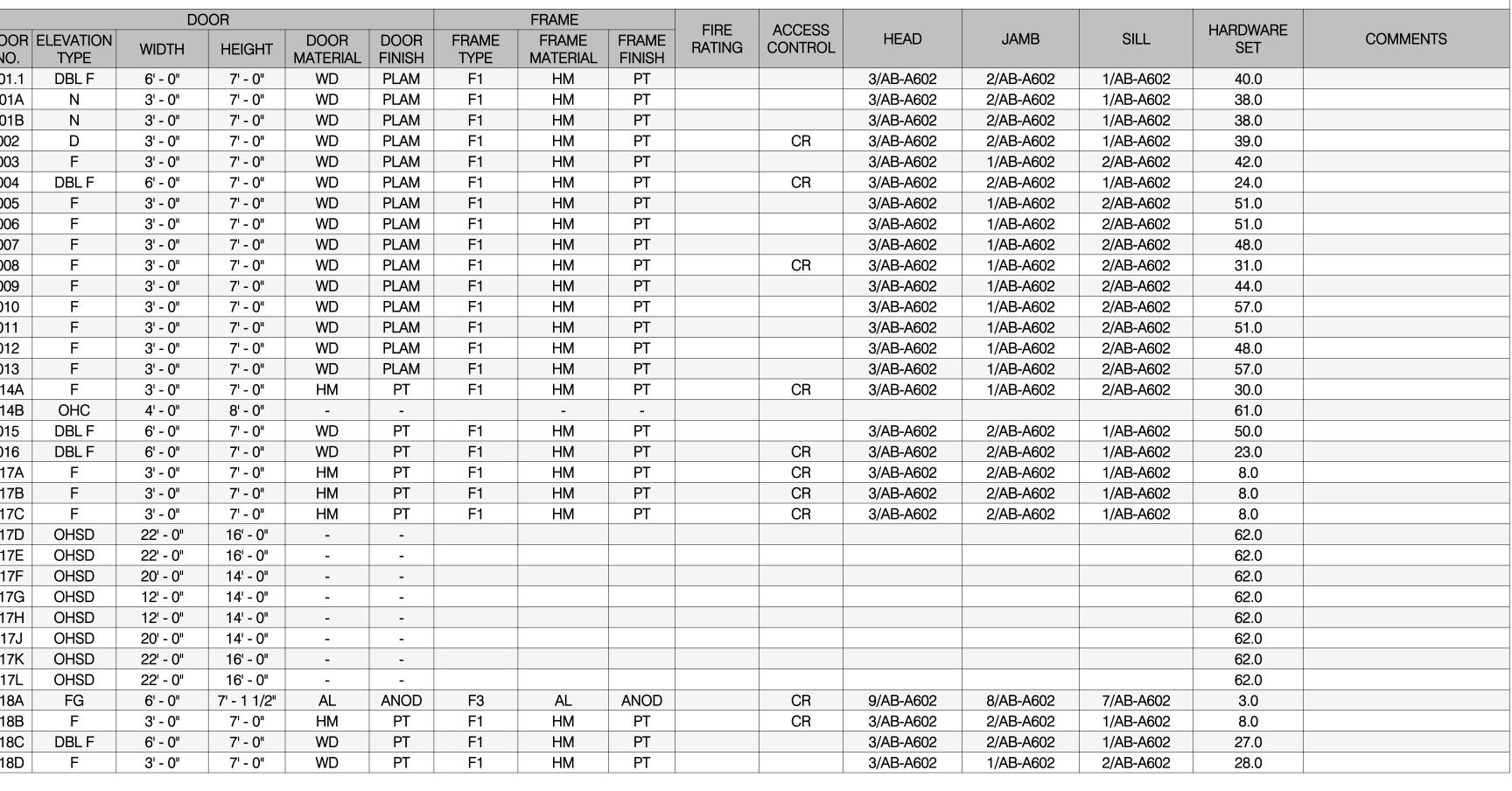
SEE SCHEDULE

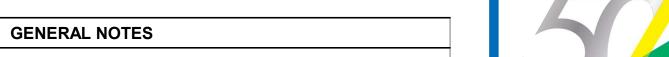
OHSD

(MOTORIZED)

OVERHEAD SECTIONAL DOOR

BASIS OF DESIGN: OVERHEAD DOOR MODEL 432





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DOOR SCHEDULE ABBREVIATIONS

REFER TO FINISH SCHEDULE FOR ALL FINISH MATERIAL

HOLLOW METAL FRAMES IN CMU/CONCRETE WALLS TO BE BITUMINOUS BACK COATED AND GROUT FILLED. PROVIDE

CONDUIT RACEWAYS FOR ELECTRONIC WIRING PRIOR TO FRAME GROUTING. PROVIDE ADDITIONAL STIFFENING /

REFER TO TECHNOLOGY SHEETS FOR EXACT LOCATIONS

SOUND ATTENUATED DOORS TO HAVE A MINIMUM STC 50

SUPPORT AS RECOMMENDED BY THE DOOR / FRAME

ALL DOORS TO BE 1 3/4" UNLESS NOTED OTHERWISE.

FOR SOUND ATTENUATED DOORS DO NOT UNDERCUT

CONTRACTOR TO COORDINATE DOORS & FRAMES WITH HARDWARE, SECURITY DEVICES, POWER AND RELATED

FIRE RATED GLAZING SHALL NOT BE WIRED GLASS.

ITEMS TO ENSURE COMPLETE INSTALLATION AND

11. REFER TO SITE PLAN SHEET A-001 FOR GATE LOCATIONS

10. ALL MOTORIZED OVERHEAD COILING DOORS TO HAVE

AND FINISH LOCATIONS

MANUFACTURER.

OF CARD READERS.

FIELD VERIFY ALL DIMENSIONS.

FUNCTIONAL OPERATION.

MANUAL OVERRIDE.

RATING UNLESS NOTED OTHERWISE.

MORE THAN 3/4". SEE SPECIFICATIONS.

AL = ALUMINUM

ANOD = ANODIZED BR = BIOMETRIC READER ACCESS CONTROL CR = CARD READER ACCESS CONTROL

CK = CARD READER KEY PAD ACCESS CONTROL DBL = DOUBLE DOORS DPS = DOOR POSITION SWITCH

EM = ELECTRIC MORTISE LOCK F = FLUSH FG = FR = FULL GLASS FIRE RATED GATE

GLZ = GLAZING HM = HOLLOW M HOLLOW METAL LOUVER

MTL = METAL, SEE MANUFACTURER NOTES N/A = NOT APPLICABLE

OHC = OVERHEAD COILING DOOR OHSD = OVERHEAD SECTIONAL DOOR PLAM = PLASTIC LAMINATE PT = PAINT

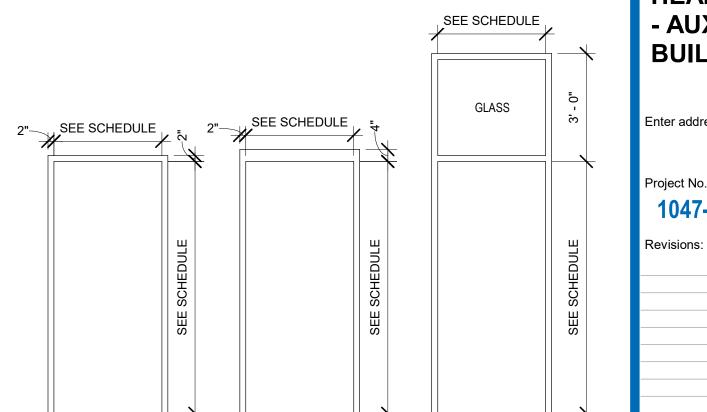
STL = GALVANIZED STEEL SC = SOLID CORE WOOD DOOR SG = SLIDE GATE STC = SOUND TRANSMISSION COEFFICIENT

WD = WOOD X = INDICATES LABEL, CLOSER OR ELECT. LOCK IS INCLUDED

#### **GLAZING MATERIAL TYPES**

SAFETY GLASS; CLEAR, FULLY TEMPERED

DOOR FRAME F2 (CMU)



BASIS OF DESIGN KAWNEER 1620UT

DOOR FRAME F3

(STOREFRONT)

DOOR FRAME ELEVATIONS

DOOR FRAME F1

SEE SCHEDULE

GATE 1A

**GATE WITH** 

CHAIN LINK INFILL

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Project No. 1047-20A

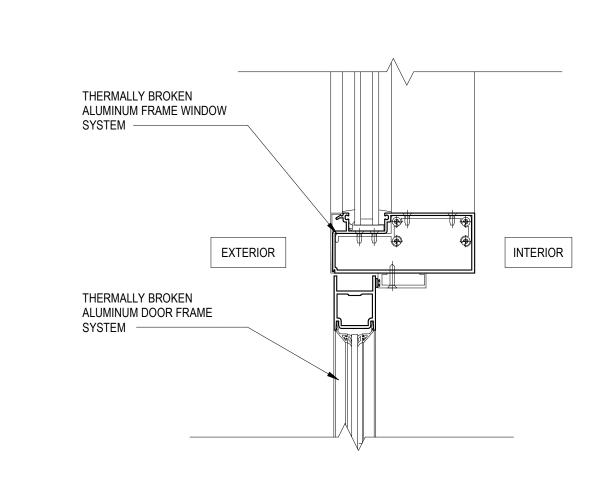
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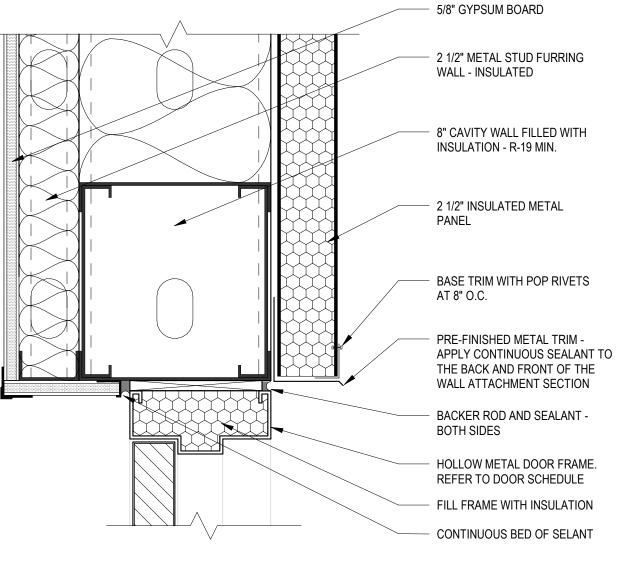
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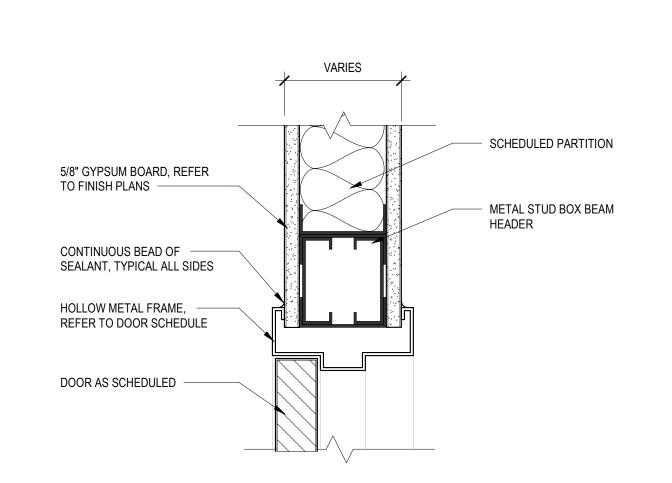
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**DOOR SCHEDULE** 



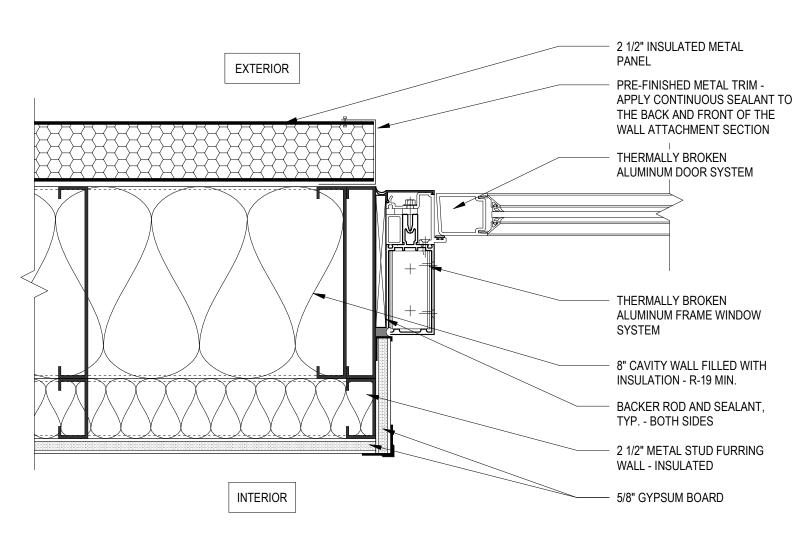


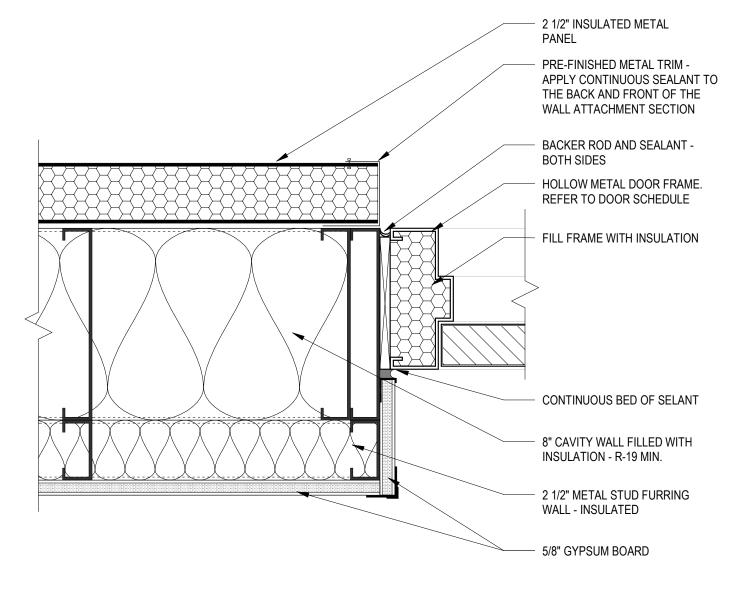


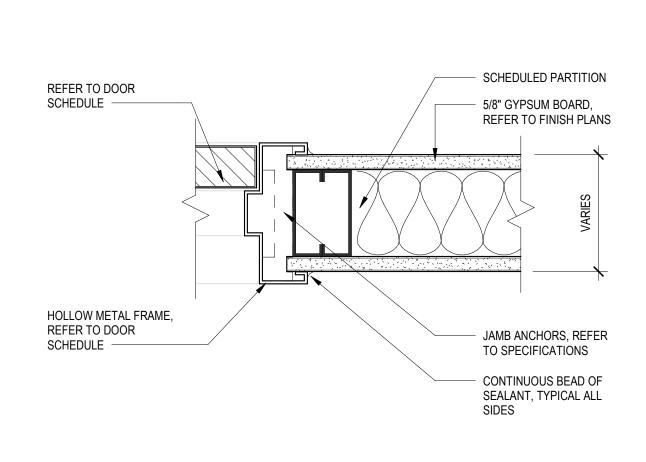










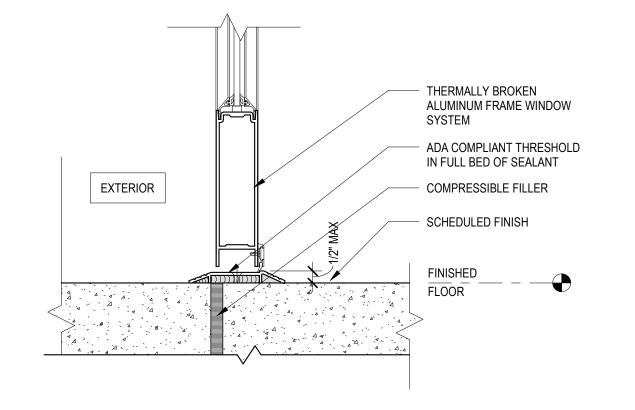


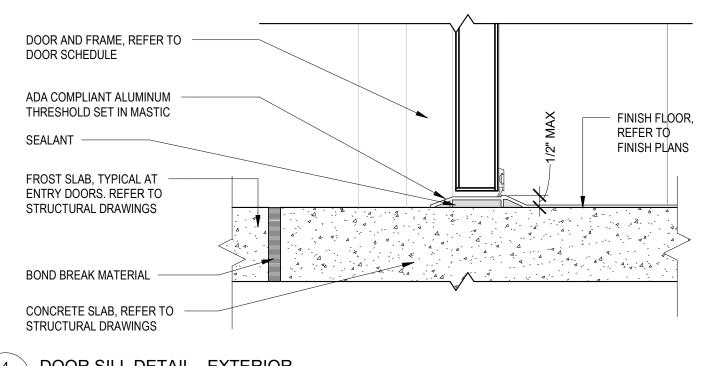
8 DOOR JAMB STOREFRONT - EXTERIOR

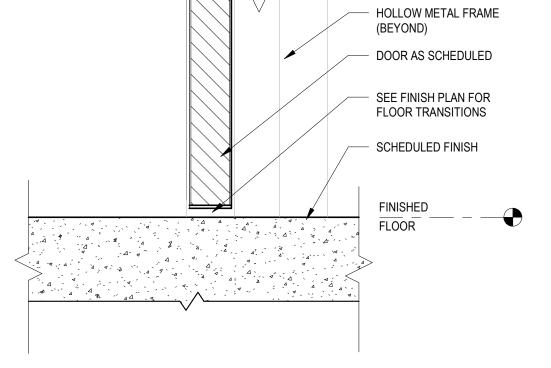
DOOR SILL STOREFRONT - EXTERIOR





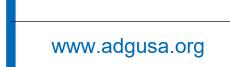






4 DOOR SILL DETAIL - EXTERIOR
AB A-602 3" = 1'-0"

1 DOOR SILL DETAIL - INTERIOR
AB A-602 3" = 1'-0"

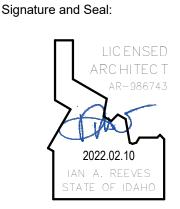


Fred Rambo, R.A.

lan A. Reeves, A.I.A. Susan M. Gantt, A.I.A., LEED AP Rodney McManus, LEED AP

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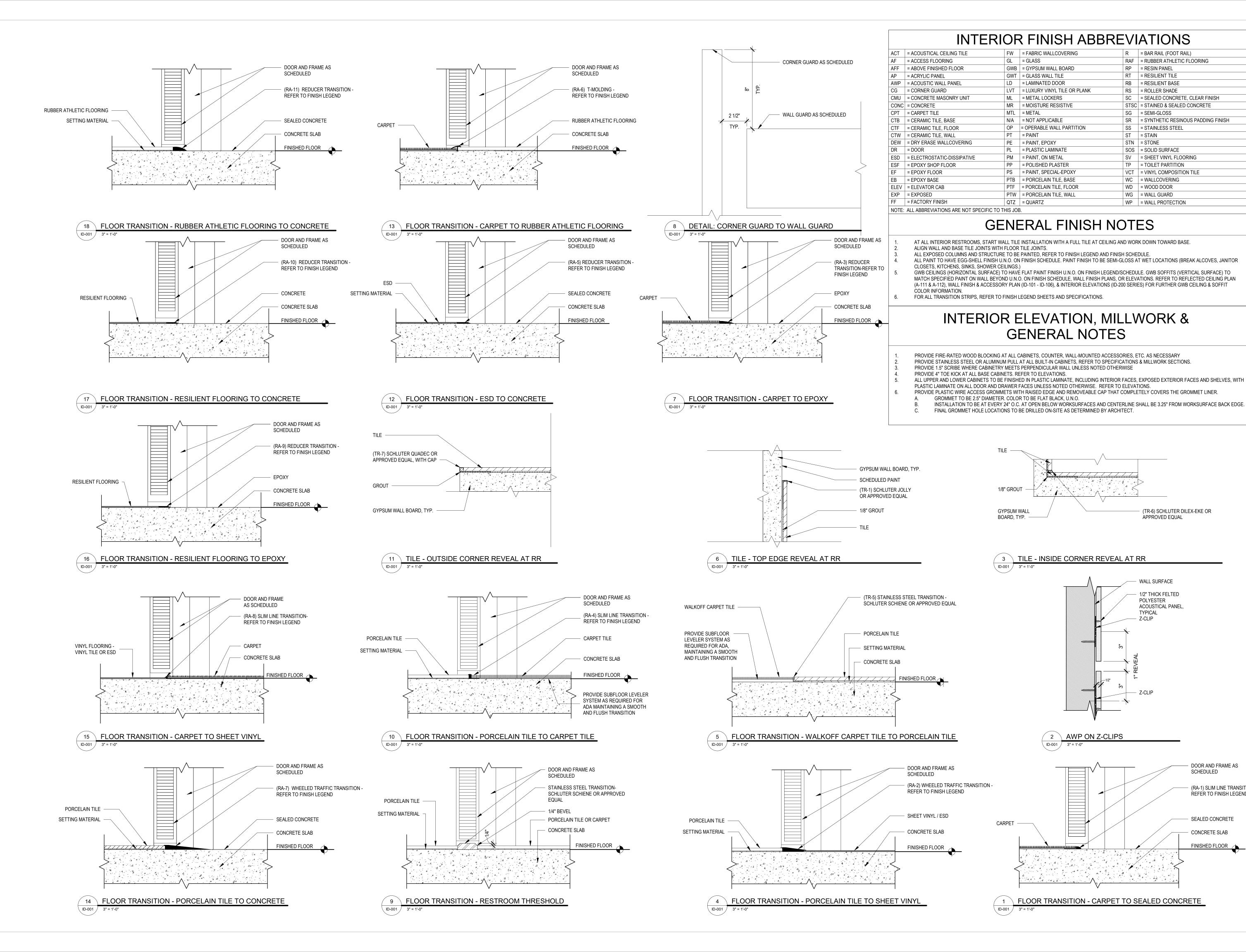
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DOOR DETAILS

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DOOR AND FRAME AS

(RA-1) SLIM LINE TRANSITION

REFER TO FINISH LEGEND

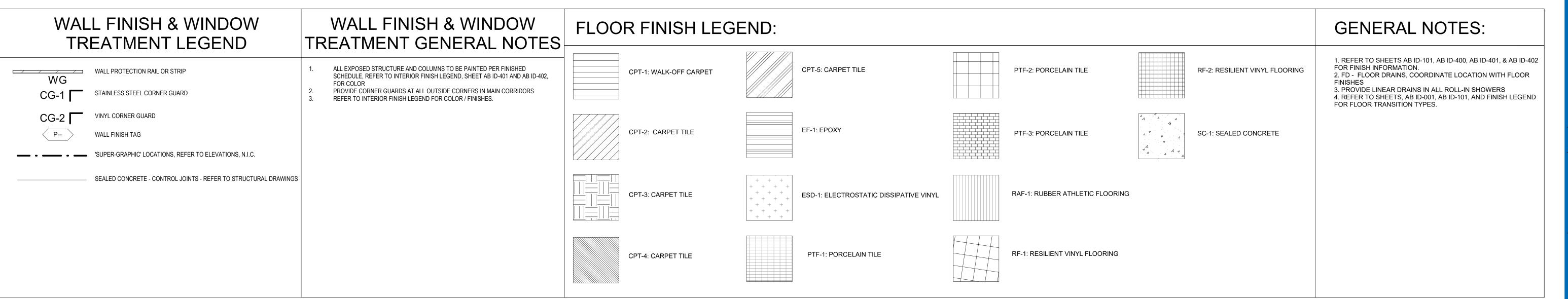
SEALED CONCRETE

CONCRETE SLAB

SCHEDULED

Checker

**INTERIOR GENERAL NOTES** 







Ian A. Reeves, A.I.A. Susan M. Gantt, A.I.A., LEED AP Rodney McManus, LEED AP Fred Rambo, R.A.

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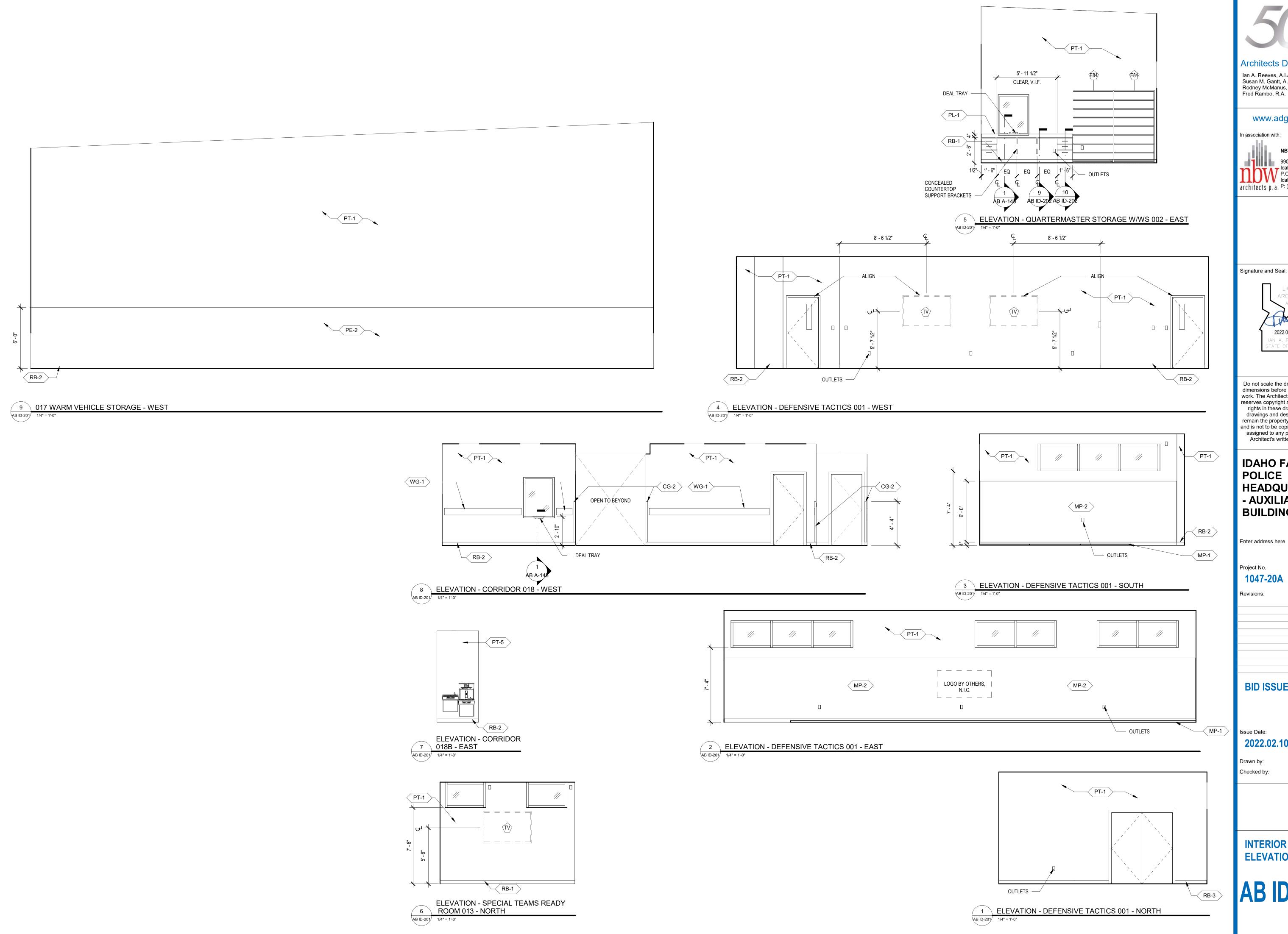
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Drawn by: Checked by:

Project North:

FINISH FLOOR PLAN

**AB ID-101** 



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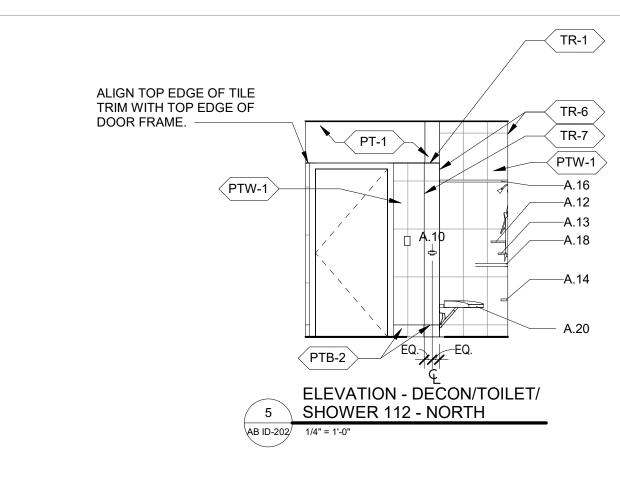
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**INTERIOR ELEVATIONS** 

**AB ID-201** 



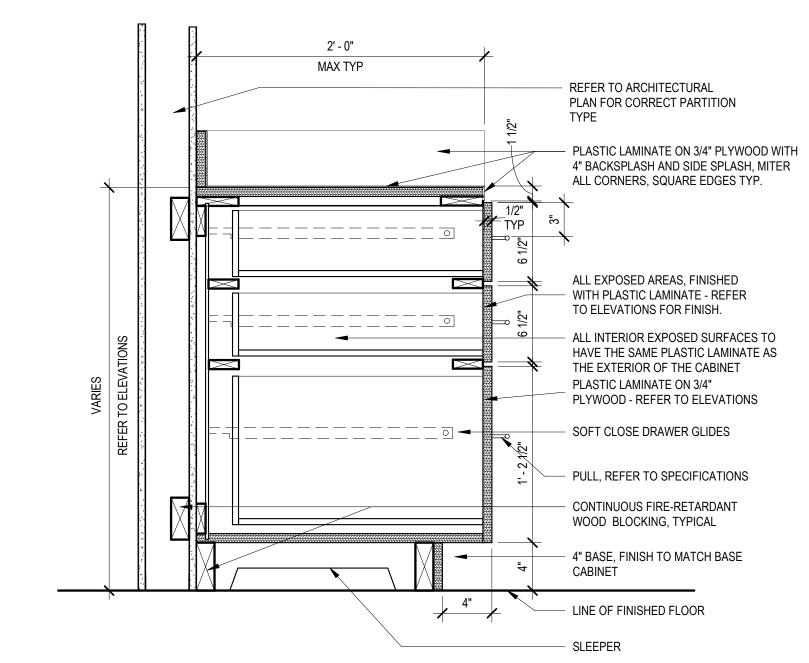
PT-1

TR-1

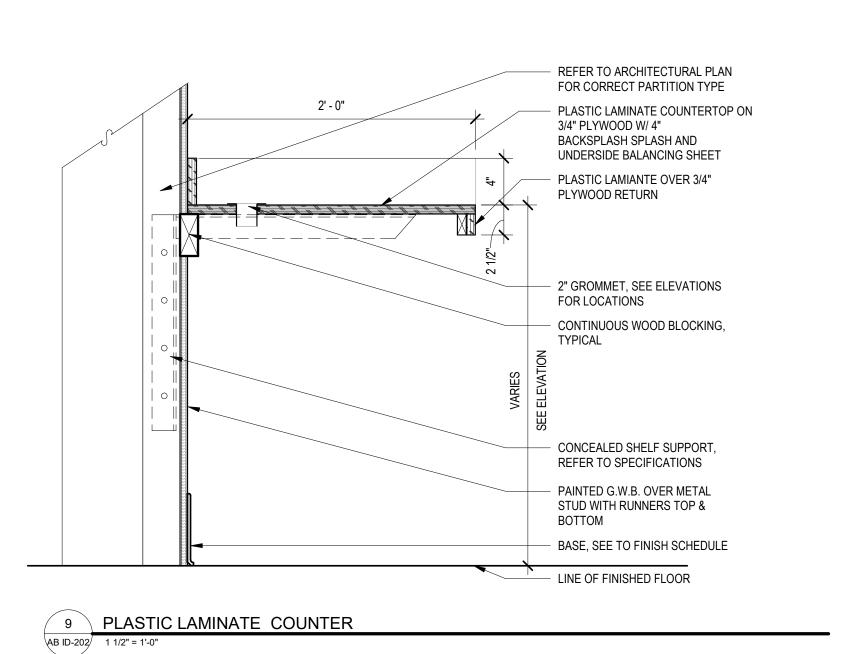
TR-1

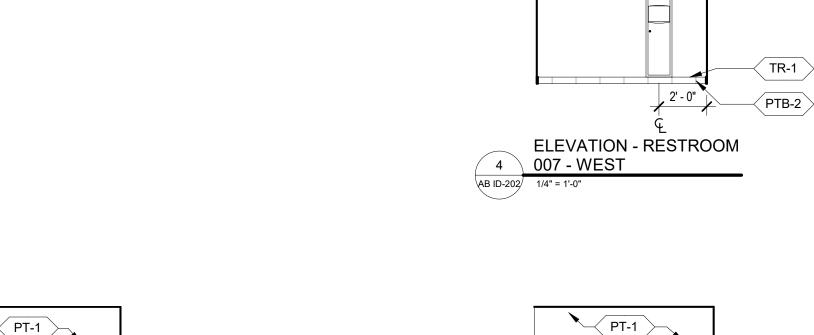
PTW-1

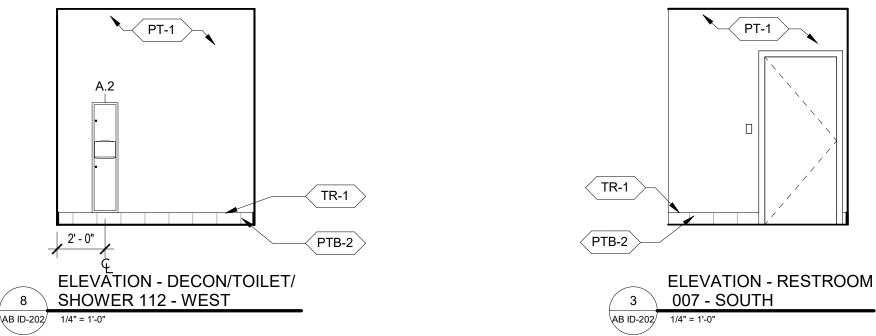
PTB-2

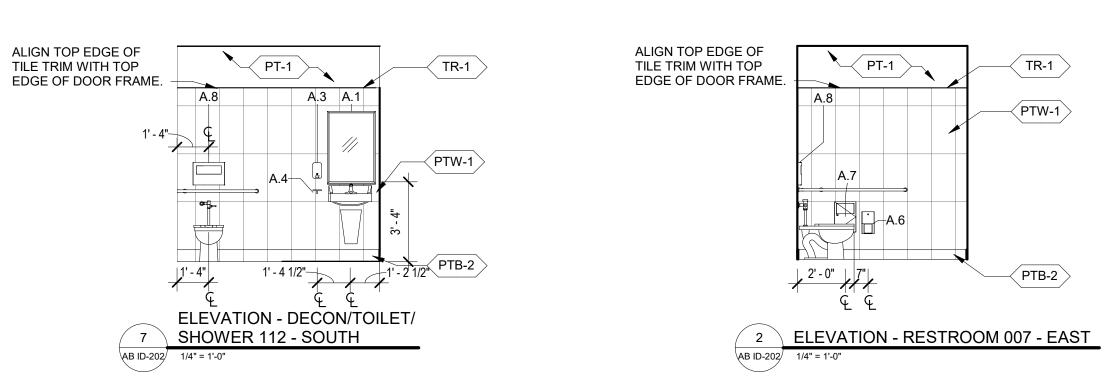


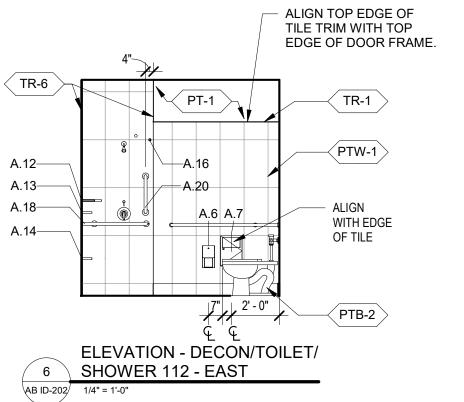
10 BASE CABINET, 3 DRAWERS, PLASTIC LAMINATE COUNTERTOP

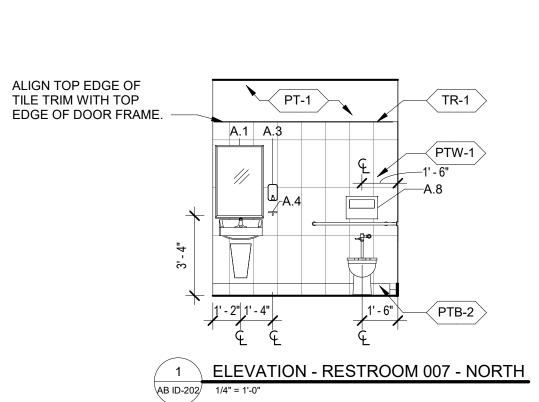














Architects Design Group lan A. Reeves, A.I.A. Susan M. Gantt, A.I.A., LEED AP

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**INTERIOR ELEVATIONS &** MILLWORK DETAILS

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INTERIOR FINISH LEGEND - CD PAGE 1											
FINISH TAG	MATERIAL	MANUFACTURER	STYLE	COLOR / FINISH	SIZE	COMMENTS					
033545	Sealed Concrete Finishing										
SC-1	Sealed Concrete Finishing	L.M. Scofield Co.	-	Clear / Matte	-	Sally Port, General storage rooms, stairs, K-9, Courtyard, Elec/Mech, Janitor, Elev. Machine					
064116	High-Pressure Plastic Laminate										
PL-1	Plastic Laminate	Nevamar	Nevamar Neutral Gray		-	Upper cabinets; Labs & Armory					
PL-2	Plastic Laminate	Nevamar	Frappe	LN6001T	-	Upper cabinets, grain to run vertical; Breakrooms, Copy/Coffee					
PL-3	Plastic Laminate	Nevamar	Maritime Gray	S6027T	-	Base cabinets; Restroom vanity shrouds, Training, Breakrooms, Labs and Armory					
PL-4	Plastic Laminate	Wilsonart	Silver Velvet Traceless	15503-31	-	Reception					
123616	Stainless Steel										
SS-1	Stainless Steel	OnePointe Solutions	Type 316	Stainless Steel	-	Armory, Labs, & Evidence; OnePointe Solutions-Basis of Design, pre-manufactured stainless steel cabinetry					
123661	Solid Polymer Fabrication										
SOS-1	Solid Surface	Livingstone	Sea Peal	L719, Polished	2 cm	Reception, Breakroom, Copy/Coffee, Lactation & Training Room countertops & 4" backsplashes					
081416	Flush High-Pressure Laminate-Faced Doors										
DR-1	Flush Laminate-Finished Doors	VT Industries-Wilsonart	Heritage Collection / High-Pressure Laminate Finish (HPL)	Limber Maple 10734-60	Refer to Door Schedule	AEON scuff-resistant finish					
093000	Tiling										
PTF-1	Porcelain Tile Floor	Atlas Concorde	Fray	Smoke	12" x 24" x 9mm thick	Field tile in Elevator, Break Rooms, Staff Entry, Water Fountains & Lockers; Ashlar Installation, 1/8" grout joint, sanded. Grout: Laticrete #45 Raven.					
PTF-2	Porcelain Tile Floor	Ceramic Technics	Fiorano, Basaltina	Light Grey, Natural	12" x 24" x 10mm thick	Flooring in Restrooms; Stacked pattern, 1/8" grout joint, sanded. Grout: Laticrete #24 Natural Grey					
PTF-3	Porcelain Tile Floor	Atlas Concorde	Fray	Gray	12" x 24" x 9mm thick	Reception; Ashlar Installation, 1/4" grout joint, sanded. Grout: Laticrete #78 Sterling Silver					
PTB-1	Porcelain Tile Base	Atlas Concorde	Fray	Smoke	6" x 12" x 9mm thick, coved	Elevator, Break Rooms, Staff Entry, Water Fountains & Lockers; Ashlar Installation; 1/8" grout joint, sanded. Grout: Laticrete #45 Raven.					
PTB-2	Porcelain Tile Base	Ceramic Technics	Fiorano, Basaltina	Light Grey, Natural	6" x 12" x 10mm thick, coved	Restrooms, Stacked Pattern; 1/8" grout joint, sanded. Grout: Laticrete # 24 Natural Grey					
PTB-3	Porcelain Tile Base	Atlas Concorde	Fray	Gray	6" x 12" x 9mm thick, coved	Reception, Ashlar Installation; 1/4" grout joint, sanded. Grout: Laticrete #78 Sterling Silver					
PTW-1	Porcelain Wall Tile	Ceramic Technics	Fiorano, Basaltina	White, Natural	12" x 24" x 10mm thick	Restroom Walls; Stacked pattern, 1/8" grout joint, unsanded. Grout: Laticrete #89 Smoke Grey.					
093000	Glass Tile					Duralina and O Canad O effect   1   1   1   1   1   1   1   1   1					
GT-1	Glass Mosaic Tile	Mosaic Tile Outlet	Staggered Brick	MTO0616 Blue, Yellow; Glossy	1" x 2"	Breakroom & Copy/Coffee backsplash, Ashlar Installation; install above the countertop backsplash. Install TR-1 at exposed edges.					
093050	Tile Setting Accessories					To finish exposed edges of well tile at Postrooms & Prock Pooms					
TR-1	Finishing Edge Protection Trim	Schluter	Jolly - A100ACGB	Brushed Chrome Anodized Alum.	3/8"	To finish exposed edges of wall tile at Restrooms & Break Rooms Backsplash edges at Armory, Labs & Evidence					
TR-2	Border Profile Trim	Schluter	Designline - ACGB	Brushed Chrome Anodized Alum.	1" wide visible surface	Band at Restrooms					
TR-3	Stainless Steel Trim	Schluter	TREP-SE/S/B	Brushed Chrome Anodized Alum.	TBD at time of Installation	Tiled Stairs; Backfill cavities					
TR-4	Stainless Steel Trim	Schluter	Reno Ramp-K	Brushed Chrome Anodized Alum.	TBD at time of Installation	Concrete to Concrete transitions; Backfill cavities					
TR-5	Stainless Steel Trim	Schluter	Schiene	Brushed Chrome Anodized Alum.	TBD at time of Installation	Lobby Tile Flooring to Walk-Off Carpet					
TR-6	Stainless Steel Trim	Schluter	DILEX-EKE	PG, Classic Grey	TBD at time of Installation	Restroom Shower Inside Corners-PTW-1					
TR-7	Stainless Steel Trim	Schluter	Quadec	Brushed Chrome Anodized Alum.	TBD at time of Installation	Restroom Shower Outside Corners with Caps					



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**IDAHO FALLS** POLICE HEADQUARTERS
- AUXILIARY
BUILDING

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Project No. 1047-20A

Revisions:

**BID ISSUE** 

Issue Date: 2022.02.10

Drawn by:

Checked by:

**INTERIOR FINISH LEGEND** 

Checker

			INTERIOR FINISH LEGEND - CD PAGI	E 2		
FINISH TAG	MATERIAL	MANUFACTURER	STYLE	COLOR / FINISH	SIZE	COMMENTS
095423	Acoustical Metal Ceilings		M + W + + + + + + + + + + + + + + + + +			
AMC-1	Acoustical Metal Ceiling	Armstrong Ceiling	MetalWorks Linear Classics, 0.70 NRC Square Edge with extended flange, M2 Perforations	5493 Effects Sesame FXSE2	8" x 96" x 5/8"	Staff Entry & Reception
095113	Acoustical Ceiling Tile					
ACT-1	Acoustical Ceiling Tile	Rockfon	Alaska, NRC 0.90, Square Tegular Narrow Edge, Fine Texture, 9/16" Suspension Grid SLN Tempra	White	24" x 24" x 3/4"	General Corridors and Office Areas
ACT-2	Acoustical Ceiling Tile	Rockfon	Sonar, High NRC, Square Tegular Narrow Edge, Fine Texture, 9/16" Suspension Grid	White	24" x 48" x 4" Square-Edge Profile	Conference/Briefing
ACT-3	Acoustical Ceiling	Armstrong Ceiling	Soundscapes, Blades; Linear Acoustical Panels, Fine Texture, 15/16" Prelude XL; Vertical Panel Rectangular	7193; Stone, SE	94"W x 16"H x 2" thick	Breakroom 126
096536	Resilient Flooring - ESD					
ESD-1	Electrostatic-Dissipative Vinyl Tile	Roppe	StatProtect	Cumulus White 750	24" x 24" x 1/8" thick	IT, Tele/Data Server Rooms, & Faraday
096513	Resilient Wall Base					
RB-1	Rubber Base	Roppe	Pinnacle (Type TS)	Dark Gray 150	4", 1/8" thick straight	Straight base at carpet
RB-2	Rubber Base	Roppe	Pinnacle (Type TS)	Dark Gray 150	4", 1/8" thick coved	Resilient and concrete flooring
RB-3	Rubber Base	Roppe	Pinnacle (Type TS)	Black 100	4", 1/8" thick coved	Physical Agility & Defensive Tactics
RA-1	Rubber Transition Strips	Johnsonite/Tarkett	Slim Line Transition, SLT-20-J	Charcoal WG, 20	TBD at Time of Installation	Carpet to Sealed Concrete
RA-2	Rubber Transition Strips	Johnsonite/Tarkett	Wheeled Traffic Transition, CTA-20-K	Charcoal WG, 20	TBD at Time of Installation	Porcelain Tile to Sheet Vinyl
RA-3	Rubber Transition Strips	Johnsonite/Tarkett	Reducer, CRS-20-A	Charcoal WG, 20	TBD at Time of Installation	Carpet to Epoxy
RA-4	Rubber Transition Strips	Johnsonite/Tarkett	Slim Line Transition, SLT-20-F	Charcoal WG, 20	TBD at Time of Installation	Porcelain Tile to Carpet Tile
RA-5	Rubber Transition Strips	Johnsonite/Tarkett	Reducer, RRS-20-C	Charcoal WG, 20	TBD at Time of Installation	ESD to Concrete
RA-6	Rubber Transition Strips	Johnsonite/Tarkett	T-Molding, CE-40-C	Black B, 40	TBD at Time of Installation	Carpet to Rubber Athletic Flooring
RA-7	Rubber Transition Strips	Johnsonite/Tarkett	Wheeled Traffic Transition, CTA-20-PL	Charcoal WG, 20	TBD at Time of Installation	Porcelain Tile to Concrete
RA-8	Rubber Transition Strips	Johnsonite/Tarkett	Slim Line Transition, SLT-20-A	Charcoal WG, 20	TBD at Time of Installation	Carpet to Sheet Vinyl
RA-9	Rubber Transition Strips	Johnsonite/Tarkett	Reducer, RRS-20-C	Charcoal WG, 20	TBD at Time of Installation	Resilient Flooring to Epoxy
RA-10	Rubber Transition Strips	Johnsonite/Tarkett	Reducer, RRS-20-C	Charcoal WG, 20	TBD at Time of Installation	Resilient Flooring to Concrete
RA-11 <b>096516</b>	Rubber Transition Strips  Resilient Sheet Flooring	Johnsonite/Tarkett	Reducer, CRS-40-B	Black B, 40	TBD at Time of Installation	Rubber Athletic Flooring to Concrete
					39" W x 16-30yds L x 1/8"	Interview, Soft Interview, Interview Waiting, Report Taking Rooms, Juvenile Lounge,
RF-1	Resilient Flooring	FlexiFlor	Rubber Sheet Flooring	Twilight 772, Smooth	thickness	Polygraph & DUI Drug Recog.; Seams to be heat welded, color to match.
RF-2	Resilient Flooring	FlexiFlor	Rubber Sheet Flooring	Gray Dawn 746, Smooth	39" W x 16-30yds L x 1/8" thickness	Copy Coffee and Lacation Rooms; Seams to be heat welded, color to match.
096566	Resilient Athletic Flooring					
RAF-1	Rubber Athletic Flooring	eCORE Commercial	ECOnights	Big Bang Blue 629A	23" x 23" x 8mm thick	Physical Agility
096723	Resinous Flooring					
EF-1	Epoxy (Quartz) Flooring	Sherwin Williams	Decorative Mosaic WB Coating System; 3 coats of clear sealer	Color "D" CU16	20 mils - 1/16" thick	Vehicle Examination, Chemical Lab, Photo Lab, & Blood Drying

Color "D" CU16

4" high

Decorative Mosaic WB Coating System; 3 coats of clear sealer

EB-1

Epoxy (Quartz) Integral Base

Sherwin Williams



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**IDAHO FALLS** POLICE HEADQUARTERS
- AUXILIARY BUILDING

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Project No. 1047-20A Revisions:

Vehicle Examination, Chemical Lab, Photo Lab, & Blood Drying

**BID ISSUE** 

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Checked by:

**INTERIOR FINISH LEGEND** 

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INDOUT A C	AAA TEDIA.	BAABILIE A OTLICE	INTERIOR FINISH LEGEND - CD PAG		0.75	
124800	MATERIAL Walk-Off Mats	MANUFACTURER	STYLE	COLOR / FINISH	SIZE	COMMENTS
CPT-1	Walk-Off Carpet Tile	EF Contract	Access	Ingress AX-AX904	24" x 24" x 0.135" thick	Walk-off carpet at building entrances; Monolithic Installation
096813	Carpet Tile					
CPT-2	Carpet Tile	Shaw Contract	Assembly, Convene 5T269	Clear Network 67538	12" x 48" x 6.35mm thick	General carpet for corridors; Ashlar Installation  Offices & Open Offices Deak Recentionists Recerds Report Writing Code
CPT-3	Carpet Tile	Shaw Contract	Assembly, Establish 5T268	Network 67535	12" x 48" x 6.1mm thick	Offices & Open Offices, Desk Receptionists, Records, Report Writing, Code Enforcement, Sm.; Ashlar Installation
CPT-4	Carpet Tile	Shaw Contract	Canopy, Habitat 5T390	Calm 88595	9" x 36" x 6.3mm thick	Conference Rooms; Ashlar Installation
CPT-5	Carpet Tile	Shaw Contract	Floor Architecture, Poured Tile 5T206	Lapis 06486	24" x 24" x 5.79mm thick	Training & Briefing Rooms; Ashlar Installation
097200	Wall Coverings	MDC:			54" width,	
WC-1 <b>097720</b>	Wall Covering  Fiberglass-Reinforced Wall Panels	Len-Tex Contract	Kai	Nautilus 6813KI	Random Reversible	Reception
FRP-1	Fiberglass-Reinforced Wall Panels & Trim	Marlite	Standard FRP	P4770N Dark Grey	4'-0" wide, 3/32" thick	In Janitor's Closets, frame mop sink; M370 edge, M350 inside corner
098413	Acoustical Wall Panels					
AWP-1	Sound-Absorbing Panels	MDC	Zintra, Mandava Performance 100 Fiberglass core w/ square edge detail	Chambray ZTR4703/4157	4'-0" x 9'-0" x 1/2" thick	Install with Z-clips: 0.45-0.95 NRC; Training Rooms, Briefing Room
AWP-1	Sound-Absorbing Panels	MDC	Zintra, Mandava Performance 100 Fiberglass core w/ square edge detail	Chambray ZTR4703/4157	2'-0" x 4'-0" x 1/2" thick	Install with Z-clips: 0.45-0.95 NRC; Lactation Rooms
099100	Painting and Special Coatings					General Wall Color for Corridors, Offices, Training, Briefing, Conf., Restrooms,
PT-1	Interior Paint	Benjamin Moore	Egg-Shell	Horizon OC-53	-	Copy/Coffee, Breakrooms, Physical Agility, Lactations, Interviews, Labs, IT & Storage
PT-2	Interior Paint	Sherwin Williams	Eg-Shel	Uncertain Gray SW-6234	-	Accent Color 1, Offices & Physical Agility
PT-3	Interior Paint	Sherwin Williams	Eg-Shel	Golden Plumeria SW-9019	-	Accent Color 2, Breakrooms & Physical Agility
PT-4	Interior Paint	Sherwin Williams	Flat	Smoky Blues SW-7604	-	Accent Color 3, Training, Briefing, Conferences & Lactation Rooms
PT-5	Interior Paint	Sherwin Williams	Semi-Gloss	Dress Blues SW-9176	-	Accent Color 4, Open Offices, Physical Agility, Corridors, & Copy/Coffee
PT-6	Interior Paint	Sherwin Williams	Flat	Ceiling Bright White SW-7007	-	Gypsum wallboard ceiling throughout, U.N.O.
PT-7	Interior Paint	Sherwin Williams	Eg-Shel	Revel Blue SW-6530	<u>-</u>	Reception Soffit
PT-8	Interior Paint	Sherwin Williams	Eg-Shel	Silver Tipped Sage SW-9642	_	Reception
PT-9				··· •		· 
	Interior Paint	Sherwin Williams	Semi-Gloss	Ceiling Bright White SW-7007	-	Shower Ceilings
PE-1	Interior Paint	Benjamin Moore	Semi-Gloss	Horizon OC-53	-	Epoxy Field Color - Sally Port
PE-2	Interior Paint	Sherwin Williams	Semi-Gloss	Dress Blues SW-9176	-	Epoxy Accent Color - Sally Port
PM-1	Interior Paint	Benjamin Moore	Semi-Gloss	Shaker Gray 1594	-	Metal Doors & Frames
PM-2	Interior Paint	Sherwin Williams	Flat	Acier SW-9170	-	Exposed Structure and Metal Decking
PM-3	Interior Paint	Sherwin Williams	Flat	Acier SW-9170	-	Storages, Electricals, Mechanicals and Stairs exposed ductwork
PM-4	Interior Paint	Sherwin Williams	Flat	Dress Blues SW-9176	-	Kitchen & Physical Agility's exposed ductwork
PM-5	Interior Paint	Sherwin Williams	Semi-Gloss	Golden Plumeria SW-9019	-	Bollards (Sally Port)
102600	Wall Protection/Corner Guards					
CG-1	Stainless Steel Corner Guards	InPro	Stainless Steel Corner Guard, SAS-181124C-304, 16 guage	Type 304 (standard)	4'-0" high, 2" wings	Back of House spaces; wall mounted on top of wall base
CG-2	Corner Guards	Korogard	Wall Protection Systems, G100, with 1/4" radius over a continuous aluminum retainer	Silhouette 5G, P1 Dune	4'-0" high, 2" wings, 0.078' thick	Main Corridors wall mounted on top of wall base, at 52"AFF
WG-1	Wall Guards	Korogard	Wall Protection Systems, C800	Silhouette 5G, P1 Dune	8"H x 1-1/4"D x 0.100" thicl	Main Corridors wall mounted at 36"AFF
WP-1	Wall Protection	Korogard	Wall Protection Systems, with M082, Black (01) J-Molding Plastic Trim	P1 Dune, Black (01)	22"H, 0.060" thick	Physical Agility South Wall
102600	Operable Wall Partition	-	System	` /		
OPW-1	Partition Wall Surfaces	Hufcor	Refer to specifications	Vinyl: Cascade Crisp 44-742 / Trim: Gray 9010-70226	-	Training Room 213A/213B
116600	Athletic & Recreational			<b>.</b>		
MP-1	Mat Padding - Floors	Resilite Sports Products	Resilite Zip Mat	Cobalt Deep Blue	5' x 40' x 1-5/8" Thickness	See finished floor plan. Mats placed over RAF-1.
MP-2	Mat Padding - Walls	Resilite Sports Products	Kwik-Stik Wall Padding	Cobalt Deep Blue	6' High x 1" Thickness x Ro	See finished floor plan for wall locations. Custom logo by others.
<b>122413</b>	Roller Shades  Manual Single Seler Peller Shade	Macha Chad-	Thormo\/oil 4200 Coming 50/ Omen	1220 Chada O	TDD	Windows facing east, west, south, parking lots, water & other glare-producing outdo
RS-1	Manual Single Solar Roller Shade  Motorized Dual Solar / Black-Out	MechoShade	ThermoVeil, 1300 Series, 5% Open & Equipox Blackout, 0100 Series	1320 Shadow Grey	TBD	areas
RS-2	Roller Shades - Blackout	MechoShade	ThermoVeil, 1300 Series, 5% Open & Equinox Blackout, 0100 Series, Opaque	1320 Shadow Grey & 0117 Graphite	TBD	Windows in Conference Rooms & Training Rooms
<b>123661</b> QTZ-1	Quartz Surfacing  Quartz	Cambria	Portrush	Polished	2 cm	Reception Desk, Records Reception
142400	Elevator	Сапына	1 STUGOTI	· Chorica	2 5111	



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# **IDAHO FALLS POLICE** HEADQUARTERS - AUXILIARY BUILDING

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**INTERIOR FINISH** LEGEND

			ROOM	I FINISH SCHED	ULE - AUXILIAR	Y BUILDING			
				NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	
ROOM#	ROOM NAME	FLOOR FINISH	BASE FINISH	FINISH	FINISH	FINISH	FINISH	FINISH	COMMENTS
001	DEFENSIVE TACTICS	RAF-1/MP-1	RB-3	PT-1	PT-1/MP-2	PT-1/MP-2	PT-1	ACT-1	
001.1	DEFENSIVE TACTICS STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
002	QUARTERMASTER STORAGE W/ WS	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
003	CRIME PREVENTION STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
004	ELECTRICAL ROOM	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
005	MOBILE FIELD FORCE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1	
006	GENERAL STORAGE (STAFF SUPPORT)	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
007	RR	PTF-2	PTB-2	PTW-1 / PT-1	PT-1	PTW-1 / PT-1	PT-1	GYP/PT-9	REFER TO AB ID-202 FOR TILE LAYOUT
800	IT	ESD-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1	
009	STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
010	SWAT LOCKERS	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1	
011	UAS-DRONES WORKROOM	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1	
012	DECON/ TOILET/ SHOWER	PTF-2	PTB-2	PTW-1 / PT-1	PTW-1 / PT-1	PTW-1 / PT-1	PT-1	GYP/PT-9	REFER TO AB ID-202 FOR TILE LAYOUT
013	SPECIAL TEAMS READY ROOM	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-5	ACT-1	
014	AMMO STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
015	ROBOT STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
016	MECHANICAL ROOM	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
017	WARM VEHICLE STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1 / PE-2	EXP/PM-2	REFER TO AB ID-201 FOR PAINT LAYOUT
018	CORRIDOR	SC-1	RB-2	PT-1	PT-1	PT-1/PT-5	PT-1	ACT-1/PT-6	
018A	ENTRY	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1/PT-6	
018B	CORRIDOR	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1	
018E	ENTRY	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	

NOTE: REFER TO SHEET AB ID-400, AB ID-401 AND AB ID-402 FOR FINISH LEGEND.



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# IDAHO FALLS POLICE HEADQUARTERS - AUXILIARY BUILDING

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Project No. **1047-20A** 

Revisions:

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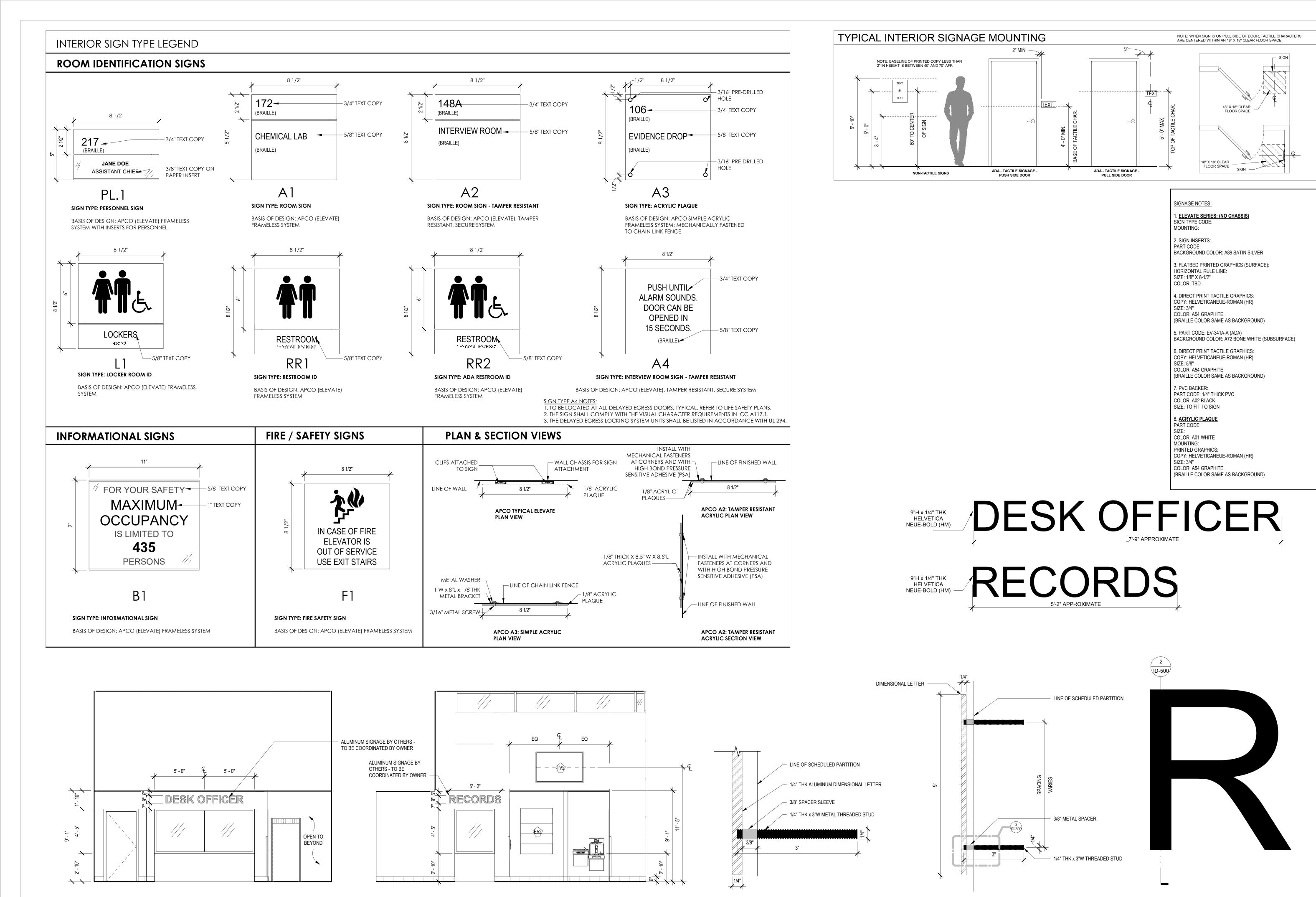
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INTERIOR FINISH SCHEDULE

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**AB ID-403** 



4 ELEVATION - RECEPTION 237 SIGNAGE - EAST

ID-500 1/4" = 1'-0"

5 ELEVATION - RECEPTION 237 SIGNAGE - NORTH

50

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IDAHO FALLS
POLICE
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BUILDING

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INTERIOR SIGNAGE NOTES

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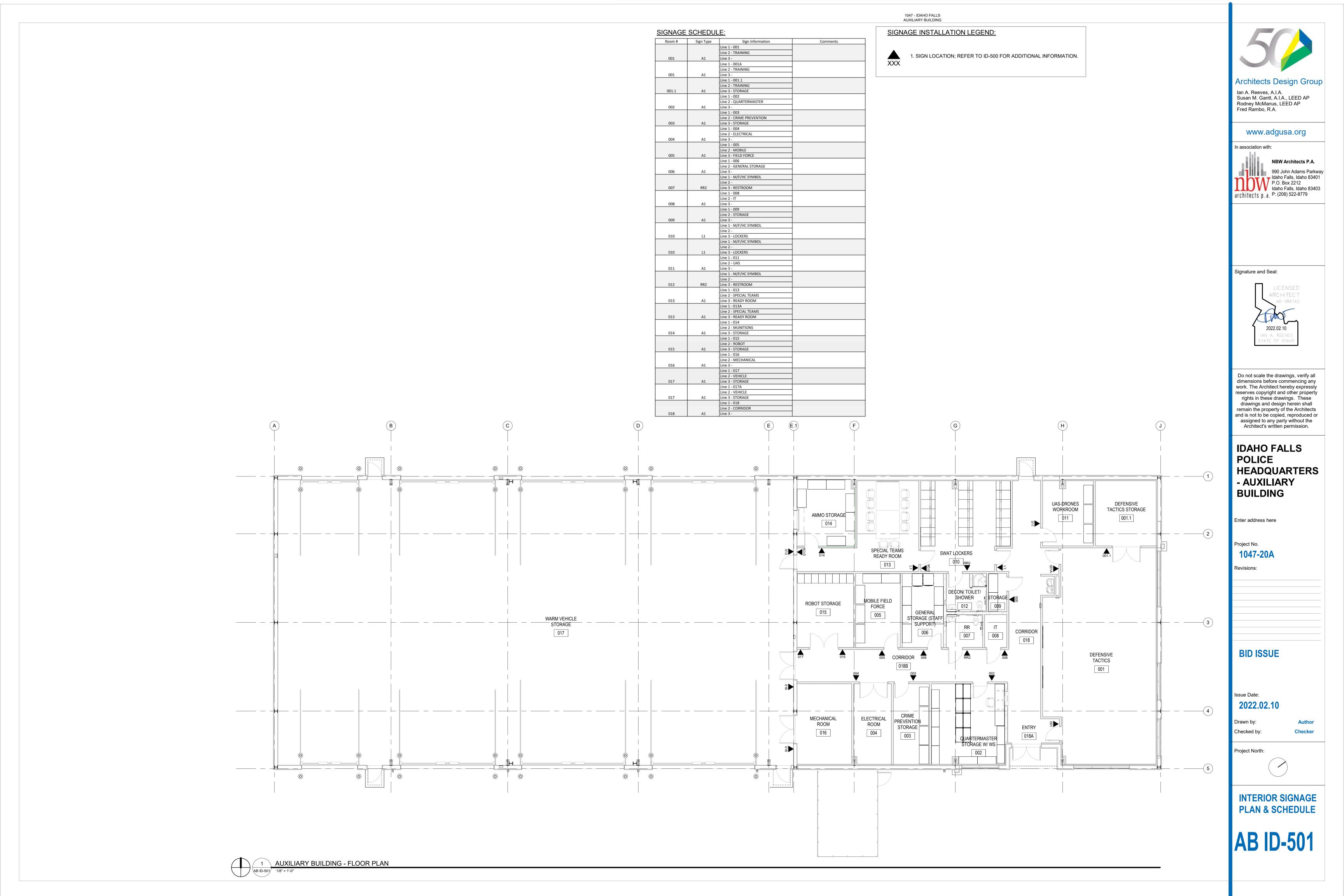
**AB ID-500** 

1 DIMENSIONAL LETTERS

2 SECTION - DIMENSIONAL LETTER

ID-500 6" = 1'-0"

3 DETAIL - DIMENSIONAL LETTER ATTACHMENT



#### REFRIGERATION

#### INSTALLATION

ONLY NON CFC REFRIGERANT MAY BE UTILIZED IN EQUIPMENT (R-410 OR EQUAL).

EQUIPMENT MANUFACTURER TO PROVIDE REFRIGERANT PIPING LAYOUT, SIZING, AND ALL REQUIRED COMPONENTS FOR ENGINEER REVIEW.

REFRIGERANT PIPING ON FLOOR PLANS IS SHOWN AS SINGLE LINE FOR CLARITY INSTALL REFRIGERANT SUCTION, REFRIGERANT LIQUID, AND REFRIGERANT GAS PER MANUFACTURER RECOMMENDATIONS. ROUTE ALL PIPING IN CONCEALED LOCATIONS ABOVE CEILINGS AND WITHIN WALLS UNLESS NOTED OTHERWISE. PIPING TO MEET MANUFACTURER MAXIMUM LENGTH REQUIREMENTS INCLUDING ALL RELEVANT FITTINGS.

INSULATE REFRIGERANT PIPING PER INSULATION TABLE. PROVIDE ALUMINUM JACKET ON ALL INSULATION LOCATED OUTDOORS.

SUPPORT ALL FLOOR, GROUND, OR ROOF SUPPORTED REFRIGERATION PIPING WITH UNISTRUT SUPPORTS. INSTALL DURA-BLOK ROOFTOP SUPPORT PADS OR EQUAL.

#### COMMISSIONING

#### CONTRACTOR

A COMMISSIONING AUTHORITY HAS BEEN RETAINED BY THE OWNER TO PERFORM COMMISSIONING FOR THIS PROJECT (UNVC). THE INSTALLING CONTRACTORS WILL BE RESPONSIBLE TO ASSIST UNVC WITH THE COMMISSIONING SCOPE FOR ALL MECHANICAL SYSTEMS. THE INSTALLING CONTRACTORS WILL BE RESPONSIBLE FOR THE FOLLOWING:

1. COMPLETE ALL PRE-FUNCTIONAL TESTING FORMS THAT UNVC PROVIDES FOR ALI OF THE MECHANICAL SYSTEMS. 2. COMPLETE ALL FUNCTIONAL TESTING FORMS THAT UNVC PROVIDES FOR ALL OF

THE MECHANICAL SYSTEMS. 3. INSTALLING CONTRACTORS WILL BE RESPONSIBLE FOR ADDITIONAL TESTING IF

THE SYSTEMS FAIL DURING UNVC TESTING. 4. THE CONTROL CONTRACTOR WILL BE PRESENT FOR UNVC TESTING OF 20% OF THE SEQUENCES OF OPERATION.

5. UNVC WILL REVIEW THE O&M MANUALS

#### **DUCTWORK**

#### INSTALLATION INSTALL AND SUPPORT ALL DUCTWORK PER SMACNA AND INTERNATIONAL MECHANICAL CODE REQUIREMENTS.

COORDINATE ALL DIFFUSER AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.

COORDINATE ALL STRUCTURAL PENETRATIONS FOR DUCT WORK WITH GENERAL CONTRACTOR AND STRUCTURAL ENGINEER. DUCT PENETRATIONS THROUGH ROOF ARE TO BE COORDINATED WITH JOIST LAYOUT.

CLOSE ENDS OF DUCTWORK AND PIPING AND COVER FLOOR DRAINS DURING CONSTRUCTION. CLEAN ALL EQUIPMENT, PIPING, AND DUCTWORK AT COMPLETION

CONSTRUCT ALL DUCT TEES, BENDS, AND ELBOWS WITH RADIUS NOT LESS THAN 1.5 TIMES THE WIDTH OF THE DUCT. WHERE PHYSICAL CONSTRAINTS PROHIBIT RADIUSED ELBOWS, PROVIDE RECTANGULAR ELBOW WITH TURNING VANES. ALL BRANCH TAKEOFFS TO BE CONSTRUCTED OF 90° WYE WITH 45° ENTRY.

DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS

PAINT DUCT INTERIORS VISIBLE THROUGH REGISTERS, GRILLES, DIFFUSERS, AND LOUVERS FLAT BLACK.

CONCEALED VENTS, DUCTS, AND ALL PIPING INSTALLED THROUGH FRAMING MEMBERS MUST BE PROTECTED FROM FASTENER PENETRATION BY A STEEL SHIELD FILTERS PLATE (MINIMUM THICKNESS OF 1/16") UNLESS THE DISTANCE FROM THE FACE EDGE ALL AIR MOVING HVAC EQUIPMENT TO HAVE PRE-FILTER. ALL FILTERS TO BE OF THE FRAMING IS NOT LESS THAN 1.5".

PROVIDE MINIMUM 2.5 WHEEL DIAMETERS OF STRAIGHT DUCT BEFORE OFFSETS OR BENDS FOR ALL INLET AND OUTLET DUCTWORK FOR FANS.

ALL AIR DEVICE RUNOUTS TO MATCH NECK SIZE UNLESS NOTED OTHERWISE.

COMPLY WITH SMACNA REQUIREMENTS FOR ALL DUCT SUPPORT SIZING, SPACING, AND MATERIAL. ALL HANGERS IN CORROSIVE ENVIRONMENTS TO BE ELECTROGALVANIZED ALL-THREAD RODS.

PROVIDE EXPANSION JOINTS FOR ALL DUCT WORK PER SMACNA AND MECHANICAL CODE REQUIREMENTS BASED ON FINAL FIELD ROUTING.

INSTALL EXPANSION JOINTS IN ALL DUCTWORK CROSSING A BUILDING EXPANSION JOINT. EXPANSION JOINTS MUST MEET THE REQUIREMENTS FOR EXPANSION AS

DESCRIBED IN THE STRUCTURAL DRAWINGS.

ALL ROUND EXPOSED DUCTWORK TO BE SPIRAL DUCT SUPPORTED WITH STEEL CABLE AND SADDLE SUPPORTS. CREATE SMOOTH AND UNIFORM EXPOSED SEALANT BEADS FOR CLEAN APPEARANCE.

SUPPORT ALL OUTDOOR DUCTWORK WITH UNISTRUT SUPPORT STANDS AND DURA-BLOK ROOFTOP SUPPORT PADS OR EQUAL. SLOPE TOP OF OUTDOOR DUCTS TO PREVENT MOISTURE ACCUMULATION.

ALL DUCT TO BE CONSTRUCTED OF GALVANIZED METAL UNLESS NOTED OTHERWISE. ALL ROUND EXPOSED DUCT TO BE SPIRAL DUCT. CONSTRUCT ALL DUCT TO THE FOLLOWING SMACNA STANDARDS: 1. LOW PRESSURE SUPPLY DUCT AND RETURN DUCT - 2" W.G. PRESSURE CLASS AND OUTDOOR INSTALLATION.

SEAL CLASS B. 2. EXHAUST DUCT - 1" W.G. PRESSURE CLASS AND SEAL CLASS B.

ALL DUCTS ABOVE RATED CEILINGS TO BE MINIMUM 24-GAUGE SHEET METAL

ALL DUCTWORK, HANGERS, ACCESSORIES, AND AIR DEVICES LOCATED IN AN STEEL.

#### **ACCESS**

PROVIDE ACCESS PANELS FOR ALL EQUIPMENT, DAMPERS, ACTUATORS, AND FILTERS. ENSURE ADEQUATE ACCESS TO ALL SYSTEM COMPONENTS FOR MAINTAINABILITY. PROVIDE DOUBLE WALL DUCT ACCESS DOORS FOR ALL MOTORIZED DAMPERS, FIRE/SMOKE DAMPERS, FIRE DAMPERS, FILTERS, DUCT COILS, TURNING VANES, DUCTWORK CONNECTING TO LOUVERS, AND OTHER DEVICES THAT REQUIRE ACCESS. DOORS TO BE 12" SQUARE FOR TWO HAND ACCESS AND 25"X14" FOR BODY ACCESS.

#### INSULATION AND LINER

CONDITIONED SPACES INCLUDE ALL SPACES THAT ARE DIRECTLY HEATED OR COOLED WITHIN THE BUILDING THERMAL ENVELOPE. CONDITIONED SPACES ALSO INCLUDE AREAS THAT ARE INDIRECTLY HEATED OR COOLED WITHIN THE BUILDING THERMAL ENVELOPE WHERE THEY ARE SEPARATED FROM CONDITIONED SPACES BY UNINSULATED WALLS, FLOORS, OR CEILINGS. THESE SPACES INCLUDE AREAS ABOVE CEILINGS THAT ARE WITHIN THE BUILDING THERMAL ENVELOPE.

LINE ALL LOW PRESSURE RECTANGULAR SUPPLY AND RETURN DUCT A MINIMUM OF 20 FEET FROM ALL AIR HANDLING EQUIPMENT. SPECIFIC DUCT SYSTEMS REQUIRE ADDITIONAL LINED DUCT AS INDICATED ON DRAWINGS WITH DUCT HATCH. LINE ALL RETURN TRANSFERS AND GRILLE PLENUM BOXES. DUCT LINER TO BE KNAUF ATMOSPHERE DUCT LINER OR EQUAL AND MINIMUM R-4.2 (1"). DUCT DIMENSIONS LISTED ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. ADD LINER DIMENSIONS TO OF EQUIPMENT (ROOF INSULATION ETC. THICKNESS TO BE ADDED TO 14" FOR CURB DUCT DIMENSIONS LISTED ON DRAWINGS FOR ACTUAL DUCT DIMENSIONS. TRIM AND SEAL ALL JOINTS AND INSTALL PER MANUFACTURER REQUIREMENTS.

DUCT WRAP TO BE KNAUF ATMOSPHERE OR EQUAL WITH VAPOR BARRIER FOR ALL SUPPLY AND OUTSIDE AIR DUCT. INSULATE ALL CONCEALED UNLINED SUPPLY DUCT LOCATED IN CONDITIONED SPACE WITH MINIMUM R-4.5 - 1-1/2" (AT 25% COMPRESSION). INSULATE ALL SUPPLY AND RETURN DUCT, INCLUDING LINED DUCT, LOCATED IN UNCONDITIONED SPACE AND OUTDOORS WITH MINIMUM R-12 - 4" (AT 25% COMPRESSION). ALL DUCT LOCATED OUTDOORS TO BE DOUBLE WALL WITH SLOPED TOP AND ANNULAR INSULATION. INSULATE ALL OUTSIDE AIR DUCT WITH MINIMUM R-6 - 2" (AT 25% COMPRESSION).HRV SUPPLY AND RETURN DUCTWORK WILL NOT BE INSULATED WITH EXCEPTION OF DUCT FROM INTAKE LOUVER TO HRV.

ROUND FLEXIBLE DUCT TO BE THERMAFLEX PRO SERIES OR APPROVED EQUAL FLEXIBLE SUPPLY DUCT IN CONDITIONED SPACE TO BE MINIMUM R-4.2. FLEXIBLE DUCT RUNS TO BE MAXIMUM 8 FEET IN LENGTH AND FREE OF KINKS AND TIGHT BENDS. FLEXIBLE DUCT TO MEET UL 181 AND FASTENERS TO MEET UL181B. UNLISTED DUCT TAPE IS PROHIBITED.

#### RATED ASSEMBLIES

PROVIDE FIRE, FIRE/SMOKE, SMOKE, AND CEILING RADIATION DAMPERS WHERE REQUIRED. INSTALL DAMPERS PER UL 555, UL 555S, AND UL 555C AND MANUFACTURER'S RECOMMENDATIONS. PROVIDE FIRE SAFING ON ALL PENETRATIONS THROUGH FIRE RATED SEPARATIONS WITH UL RATED FIRE SAFING MATERIAL. REFER TO ARCHITECTURAL DRAWINGS FOR RATED ASSEMBLY LOCATIONS AND DESCRIPTIONS.

#### TEST AND BALANCE

PROVIDE BALANCE VALVES AND DAMPERS TO ALLOW COMPLETE BALANCE OF HVAC SYSTEMS (OPPOSED BLADE DAMPERS (OBD'S) THAT ARE INTEGRAL TO AIR DEVICES ARE NOT CONSIDERED BALANCE DAMPERS UNLESS NOTED OTHERWISE).

BALANCE ALL HVAC EQUIPMENT AND AIR DEVICES PER PLAN BY AN APPROVED INDEPENDENT TEST AND BALANCE CONTRACTOR. BALANCE REPORT TO BE GIVEN TO ENGINEER, OWNER, AND O&M MANUAL.

#### **EQUIPMENT**

PROVIDE ACCESS PANELS FOR ALL EQUIPMENT, DAMPERS, ACTUATORS, AND FILTERS. ENSURE ADEQUATE ACCESS TO ALL SYSTEM COMPONENTS FOR MAINTAINABILITY.

#### ELECTRICAL REQUIREMENTS

COORDINATE ALL ELECTRICAL AND CONTROL REQUIREMENTS WITH ELECTRICIAN

PROVIDE STARTERS AND CONTACTORS NECESSARY TO OPERATE ALL MECHANICAL

EQUIPMENT. COORDINATE ALL REQUIREMENTS WITH ELECTRICAL. CONTRACTOR MUST COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL

EQUIPMENT WITH ELECTRICAL CONTRACTOR ONCE REVIEWED SUBMITTALS ARE

ALL MOTORIZED DAMPERS ARE TO BE 24V UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE CONTROL OF MOTORIZED DAMPERS WITH

ASSOCIATED EQUIPMENT AND PROVIDE ALL CONTROL WIRING BETWEEN THE

MOTORIZED DAMPER AND SERVING EQUIPMENT.

CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING CONDUIT. CONDUIT IS REQUIRED FOR ALL INACCESSIBLE LOCATIONS INCLUDING INSIDE WALLS, ABOVE HARD CEILINGS, AND IN FLOORS. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR ALL CONDUIT REQUIREMENTS. SOME LOW VOLTAGE CONDUIT MAY BE SPECIFIED IN ELECTRICAL DRAWINGS.

MINIMUM MERV-8.

PROVIDE NEW FILTERS ON ALL FORCED AIR SYSTEMS AND NEW BELTS FOR ALI BELT DRIVEN EQUIPMENT WITHIN ONE WEEK PRIOR TO SUBSTANTIAL COMPLETION. INSTALLATION

#### GENERAL REQUIREMENTS

ALL MOTORS TO BE PREMIUM EFFICIENCY MOTORS. ALL MOTORS POWERED THROUGH A VFD TO CONFORM TO MG-1, PART 31 FOR INVERTER DUTY.

PROVIDE ONE YEAR PARTS AND LABOR WARRANTY ON INSTALLATION.

PROVIDE SUBMITTALS ON ITEMS LISTED IN SCHEDULES TO ENGINEER FOR REVIEW PRIOR TO ORDER, PURCHASE, OR INSTALLATION. PROVIDE ALL HVAC CONSTRUCTION COSTS FOR ENGINEER DATA BASE AS PART OF SUBMITTALS.

ALL MANUFACTURER SUBSTITUTIONS MUST BE SUBMITTED THROUGH ARCHITECT AND APPROVED THROUGH AN ADDENDUM. PRIOR APPROVALS MUST BE SUBMITTED FACTOR. 10 DAYS PRIOR TO BID DATE.

PROVIDE OPERATIONS AND MAINTENANCE MANUAL INCLUDING ALL HVAC EQUIPMENT.

COORDINATE EXACT LOCATION OF THERMOSTATS/SENSORS WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE VENTILATED LOCKABLE COVERS FOR ALL THERMOSTATS AND SENSORS LOCATED IN PUBLIC ACCESSIBLE LOCATIONS. PROVIDE AND INSTALL CONTROL WIRING BETWEEN THERMOSTAT/SENSOR AND AIR HANDLING EQUIPMENT. PROVIDE INSULATED BASE FOR ALL THERMOSTATS/SENSORS LOCATED ON AN EXTERIOR WALL.

MECHANICAL EQUIPMENT INSTALLED OUTDOORS TO BE LISTED AND LABELED FOR

PROVIDE WATER LEVEL DETECTOR FOR ALL DOWNFLOW UNITS WITHOUT SECONDARY DRAIN PANS. DISABLE EQUIPMENT UPON DETECTION OF WATER.

ALL FANS TO BE SELECTED WITH MEDIUM DRIVE LOSS.

CONTRACTOR IS RESPONSIBLE FOR FULLY FUNCTIONING AND COMPLETE MECHANICAL SYSTEMS INCLUDING ALL INSTALLATION REQUIREMENTS, SERVICE AND MAINTENANCE REQUIREMENTS. CONTROL AND OPERATION REQUIREMENTS.

#### INSTALLATION

INSTALL ALL EQUIPMENT AND DEVICES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE A MINIMUM OF THREE DUCT DIAMETERS OF STRAIGHT DUCT BEFORE EACH

ALL EQUIPMENT MOUNTED ON THE ROOF TO BE INSTALLED A MINIMUM OF 10' FROM THE EDGE OF THE ROOF.

PROVIDE CONCRETE HOUSEKEEPING PADS (4" MINIMUM) FOR ALL INDOOR AND OUTDOOR HVAC EQUIPMENT LOCATED AT GRADE OR ON THE FLOOR. EXTEND CONCRETE BEYOND EDGE OF EQUIPMENT MIN 4" (ALL DIRECTIONS). COORDINATE PAD REQUIREMENTS WITH GENERAL CONTRACTOR.

PROVIDE VIBRATION ISOLATION FOR ALL FAN OR COMPRESSOR DRIVEN EQUIPMENT. PROVIDE FLEXIBLE CONNECTIONS TO EQUIPMENT.

ALL EQUIPMENT LOCATED ON ROOF TO BE SECURED TO A ROOF CURB OR EQUIPMENT RAIL. ROOF CURB OR EQUIPMENT RAIL TO BE INSTALLED PER ROOFING MANUFACTURER AND ARCHITECTURAL REQUIREMENTS. MINIMUM CURB OR RAIL HEIGHT TO ENSURE 14" MINIMUM DISTANCE BETWEEN TOP OF ROOF AND BOTTOM

BASED ON THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC).

REFER TO SPECIFICATIONS FOR ADDITIONAL INSULATION REQUIREMENTS.

PROVIDE PVC JACKET ON ALL EXPOSED PIPING INSULATION IN MECHANICAL ROOM.

#### **GENERAL REQUIREMENTS**

**CONTRACTOR** INSTALL ALL MECHANICAL SYSTEMS IN ACCORDANCE WITH THE ADOPTED VERSIONS OF THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL FUEL GAS CODE, INTERNATIONAL ENERGY CONSERVATION CODE, AND UNIFORM PLUMBING CODE AND ALL OTHER LOCAL CODES AND ADOPTED

CLOSELY COORDINATE ALL MECHANICAL WITH ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL. DUCTWORK AND PIPING IS APPROXIMATE AND DIAGRAMMATIC AND IS NOT TO BE SCALED. PROVIDE ALTERNATE ROUTING, OFFSETS, AND TRANSITIONS AS REQUIRED FOR COORDINATION OF ALL WORK WITHOUT ADDITIONAL COST TO THE OWNER.

FIELD VERIFY ALL MECHANICAL PRIOR TO COMMENCING NEW WORK. DO NOT FABRICATE OR INSTALL ANY MECHANICAL BEFORE VERIFYING DIMENSIONS AND ROUTING WITH BUILDING CONDITIONS AND ALL OTHER TRADES.

CONTRACTOR IS RESPONSIBLE FOR ALL APPLICABLE PERMITS AND FEES.

IF DISCREPANCIES EXIST BETWEEN BUILDING CODES, DRAWINGS, NOTES, AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT WILL BE REQUIRED UNLESS CLARIFIED BY PROJECT ENGINEER IN AN OFFICIAL ADDENDUM OR SUPPLEMENTAL

REQUESTS FOR INFORMATION: THE CONTRACTOR ACKNOWLEDGES ITS RESPONSIBILITY TO BE FAMILIAR WITH THE CONTRACT DOCUMENTS. REQUESTS FOR INFORMATION (RFI'S) WILL BE RESPONDED TO WITHIN FIVE WORKING DAYS OF RECEIPT. TIME SPENT REVIEWING RFI'S IN WHICH THE INFORMATION REQUESTED IS CLEARLY INCLUDED IN THE DRAWINGS OR SPECIFICATIONS WILL BE CHARGED TO THE CONTRACTOR AT ENGINEERING SYSTEM SOLUTIONS' STANDARD BILLING RATES.

PROVIDE SEISMIC RESTRAINTS FOR HVAC EQUIPMENT, DUCTWORK, AND PIPING. RESTRAINTS ARE TO COMPLY WITH SEISMIC DESIGN CRITERIA LISTED IN THE STRUCTURAL GENERAL NOTES AND IN ACCORDANCE WITH ASCE/SEI 7-10 AND BUILDING CODE. CONTRACTOR IS RESPONSIBLE TO PROVIDE INSTALLATION DETAILS THAT ARE STAMPED BY A PROFESSIONAL ENGINEER, LICENSED IN THE LOCAL JURISDICTION. DETAILS ARE TO ACCOUNT FOR SEISMIC, WIND, AND GRAVITY LOADING REQUIREMENTS. WHEN ENGINEERING SYSTEM SOLUTIONS (ES2) PROVIDES THE STRUCTURAL ENGINEERING, GENERIC INSTALLATION DETAILS MAY BE INCLUDED IN THE STRUCTURAL DOCUMENTS AND MAY BE FOLLOWED WHERE APPLICABLE. REFER TO STRUCTURAL GENERAL NOTES FOR SEISMIC DESIGN CATEGORY, SITE CLASS, RISK CATEGORY, SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION COEFFICIENT (SDS), ONE SECOND PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION COEFFICIENT (SD1), AND IMPORTANCE

PIPING, DUCTWORK, AND EQUIPMENT HANGERS CENTERED ON STEEL I-BEAMS (CONCENTRIC HANGERS) ARE PREFERRED OVER HANGERS SUPPORTED FROM A SINGLE SIDE OF THE BOTTOM I-BEAM FLANGE. IF USING HANGERS SUPPORTED FROM A SINGLE SIDE OF THE BOTTOM FLANGE, THE MAXIMUM WEIGHT LIMIT PER HANGER IS 200 POUNDS UNLESS DIRECTED OTHERWISE BY THE PROJECT STRUCTURAL ENGINEER.

CAULK AND SEAL ALL PENETRATIONS THROUGH CEILINGS, WALLS, AND FLOORS. PROVIDE ESCUTCHEON COVERS OR SHEET METAL FLANGES ON ALL VISIBLE

ALL DETAILS INCLUDED IN DESIGN DRAWINGS MUST BE APPLIED TO ALL RELEVANT INSTALLATIONS REFERRED TO IN THE DETAIL. EACH DETAIL WILL NOT BE SPECIFICALLY REFERENCED ON THE DRAWINGS.

DUCTWORK AND PIPING MAY DIFFER IN DIMENSIONS THAN WHAT IS INDICATED ON DRAWINGS BASED ON EASIER PROCUREMENT, CONSISTENT SIZES, OR FIELD INSTALLATION CONDITIONS. PIPING MUST BE LARGER THAN WHAT IS INDICATED ON THE DRAWINGS AND THE CONTRACTOR MUST COORDINATE ROUTING OF LARGER PIPING WITH FIELD CONDITIONS. THE INSIDE FREE AREA FOR ALL DUCTWORK MUST MATCH OR EXCEED THE INSIDE FREE AREA OF THE DUCTWORK ON THE DRAWINGS AND EXHIBIT THE SAME OR BETTER PRESSURE LOSS CHARACTERISTICS. THE ASPECT RATIO OF MODIFIED DUCT MUST NOT EXCEED 3 TO 1 WITHOUT PRIOR ENGINEER APPROVAL. ROUTING FOR ALL MODIFIED DUCTWORK MUST BE

COORDINATED WITH ALL FIELD CONDITIONS.

TOTAL NO. OF SHEETS: 4

AIR DEVICE WHERE SPACE ALLOWS. AIR DEVICE PERFORMANCE DATA (PRESSURE, THROW, AND SOUND) AS SHOWN IN THE AIR DEVICE SCHEDULE IS BASED ON THREE DUCT DIAMETERS OF STRAIGHT DUCTWORK.

#### **SHEET INDEX**

SHEET NO.	SHEET TITLE	REVISION
AB M-001	MECHANICAL GENERAL NOTES AND LEGEND	
AB M-111	AUXILIARY BUILDING MECHANICAL FLOOR PLAN	
AB M-501	MECHANICAL DETAILS	
AB M-601	AUXILIARY BUILDING MECHANICAL SCHEDULES	

#### **MECHANICAL LEGEND** STANDARD ABBREVIATIONS (E) EXISTING SUPPLY DIFFUSER BALL VALVE (N) NEW AFF ABOVE FINISHED FLOOR RETURN GRILLE **BUTTERFLY VALVE** AI ANALOG INPUT ALT ALTERNATE EXHAUST GRILLE GATE VALVE AO ANALOG INPUT RETURN AIR DUCT SECTION --GLOBE VALVE APD | AIR PRESSURE DROP BOD BOTTOM OF DUCT RETURN AIR DUCT TURNED UP MOTORIZED VALVE OPERATOR BOP BOTTOM OF PIPE BTU/H | BRITISH THERMAL UNITS PER HOUR **⊸**↑ CHECK VALVE (SWING OR LIFT AS REQ'D) RETURN AIR DUCT DOWN CAP. CAPACITY SOLENOID VALVE SUPPLY AIR DUCT SECTION CFM | CUBIC FEET PER MINUTE - $\nabla$ -CV | CONSTANT VOLUME **AUTOMATIC CONTROL VALVE (2-WAY)** SUPPLY AIR DUCT TURNED UP DB DRY BULB DI | DIGITAL INPU AUTOMATIC CONTROL VALVE (3-WAY) SUPPLY AIR DUCT DOWN $-\overline{\mathbb{X}}$ DIA OR Ø DIAMETER DO DIGITAL OUTPUT EXHAUST AIR DUCT SECTION PRESSURE REDUCING VALVE EXHAUST AIR P & T RELIEF VALVE EXHAUST AIR DUCT TURNED UP EAT ENTERING AIR TEMPERATURE EFF EFFICIENCY EXHAUST AIR DUCT DOWN PET COCK OR GAUGE COCK ELEV ELEVATION ESP EXTERNAL STATIC PRESSURE AUTOMATIC FLOW CONTROL VALVE ACCESS PANEL EWT | ENTERING WATER TEMPERATURE FA | FREE AREA WATER HAMMER ARRESTOR MANUAL VOLUME DAMPER FPM | FEET PER MINUTE AIR VENT (AUTOMATIC) GRAVITY BACKDRAFT DAMPER FT FEET FV FACE VELOCITY STRAINER MOTORIZED DAMPER FW FRESH WATER GA GAUGE VENTURI FLOW METER FIRE DAMPER GAL GALLON FSD TEMPERATURE & PRESSURE TEST PLUG COMBINATION FIRE/SMOKE DAMPER GPM | GALLONS PER MINUTE HP HORSEPOWER FLOW SWITCH 18/12 DUCT SIZE (FIRST FIGURE IS SIZE SHOWN) HR HOUR HT HEIGHT BURIED OR UNDERFLOOR DUCT TEMPERATURE SENSOR INDOOR AIR QUALITY IAQ DUCT W/ ACOUSTICAL LINING IN. INCH PRESSURE GAUGE W/GAUGE COCK INWC | INCHES OF WATER COLUMN THERMOMETER FLEXIBLE DUCT (HELICAL) INWG | INCHES OF WATER GAUGE LAT LEAVING AIR TEMPERATURE FLEXIBLE DUCT CONNECTION LBS POUNDS LWT LEAVING WATER TEMPERATURE DUCT TRANSITION ELBOW DOWN MAX MAXIMUM **ELBOW W/ TURNING VANES** ELBOW UP MBH THOUSAND BRITISH THERMAL UNITS/HOUR **\*** TEE W/45 DEGREE ENTRY MECH | MECHANICAL MIN MINIMUM HOSE BIB OR SILLCOCK WYE W/ 45 DEGREE ENTRY MVD | MANUAL VOLUME DAMPER NOISE CRITERIA THERMOSTAT OR TEMP SENSOR PIPE CAP NIC NOT IN CONTRACT REDUCER VALVE HUMIDISTAT OR HUMIDITY SENSOR NO. NUMBER $\longrightarrow$ NOM NOMINAL POINT OF REMOVAL FROM EXISTING NTS NOT TO SCALE OBD OPPOSED BLADE DAMPER POINT OF CONNECTION TO EXISTING YARD HYDRANT/ROOF HYDRANT OSA | OUTSIDE AIR (M##) PD PRESSURE DROP FLOOR DRAIN KEYED NOTE PSI POUNDS PER SQUARE INCH FLOOR SINK AIR DEVICE TAG PSIG POUNDS PER SQUARE INCH GAUGE MARK/CFM RA RETURN AIR CLEANOUT TO GRADE (CTG $\overline{\phantom{a}}$ SUPPLY AIR SEN | SENSIBLE FLOOR CLEANOUT (FCO) SECTION CUT LINE SL SEA LEVEL SP STATIC PRESSURE WALL CLEANOUT (WCO SQ FT | SQUARE FEET EXPANSION JOINT **DETAIL TAG** SS | SERVICE SINK OR STAINLESS STEEL TOD TOP OF DUCT FLEXIBLE PIPE CONNECTION TSP TOTAL STATIC PRESSURE REDUCED PRESSURE BACKFLOW PREVENTER UNO UNLESS NOTED OTHERWISE -RPBP VAV VARIABLE AIR VOLUME DOUBLE CHECK BACKFLOW PREVENTER CHILLED WATER RETURN VFD VARIABLE FREQUENCY DRIVE VOL VOLUME DOMESTIC COLD WATER (DCW) ———————— CONDENSATE DRAIN W/ WITH W/O WITHOUT DOMESTIC HOT WATER (DHW) WB WET BULB DOMESTIC HOT WATER RECIRC. (DHWR) WPD WATER PRESSURE DROP WT WEIGHT —(TEMP)°F — DOMESTIC HOT WATER (SPECIFIED TEMP.) FIRE SPRINKLER SERVICE — — — — — SANITARY VENT (VT) ———HWS——— HEATING WATER SUPPLY SANITARY SEWER ABOVE GRADE (SS) ———HWR——— HEATING WATER RETURN LIQUID PROPANE SANITARY SEWER BELOW GRADE (SS) HEAT TRACING NATURAL GAS <del>////////</del> OVERFLOW ROOF DRAIN — — \*\* — — PIPING BELOW GRADE (\*\*SYS. ABR.) ROOF DRAIN REFRIGERANT LIQUID REFRIGERANT SUCTION S——S STEAM SD——— STORM DRAIN NOTE: NOT ALL SYMBOLS MAY BE USED

#### MINIMUM MECHANICAL PIPING INSULATION THICKNESS **NSULATION CONDUCTIVITY NOMINAL PIPE OR TUBE SIZE FLUID OPERATING** SYSTEM TYPES TEMPERATURE RANGE CONDUCTIVITY **MEAN RATING** <1 | 1 TO < 1 1/2 | 1 1/2 TO <4 | 4 TO <8 | ≥8 AND USAGE (°F) (BTU \* IN./ (H \* FT.<sup>2</sup> \* °F)) TEMPERATURE (°F) VRF/VRV 141 - 200 0.25 - 0.29DX CONDENSING UNIT 40 - 60 0.21 - 0.27 1.0 1.0 1.0

PIPING MATERIAL SCHEDULE ACCEPTABLE PIPING MATERIAL LOCATION | PIPE TYPE | AIR-VENT ALL ASTM B 88 TYPE K COPPER CONDENSATE-DRAIN INDOORS ALL ASTM D 2665 SCHEDULE 40 PVC INDOORS-RETURN ALL ASTM B 88 TYPE K SOLDERED COPPER AIR PLENUM ALL ASTM B 88 TYPE L COPPER OUTDOORS CATEGORY IV ALL ASTM D 2665 SCHEDULE 40 PVC REFRIGERANT ALL ASTM B 88 TYPE L COPPER 1 REFER TO SPECIFICATIONS FOR ADDITIONAL PIPING REQUIREMENTS.

2. PROVIDE DIELECTRIC FITTINGS FOR ALL DISSIMILAR METALS.



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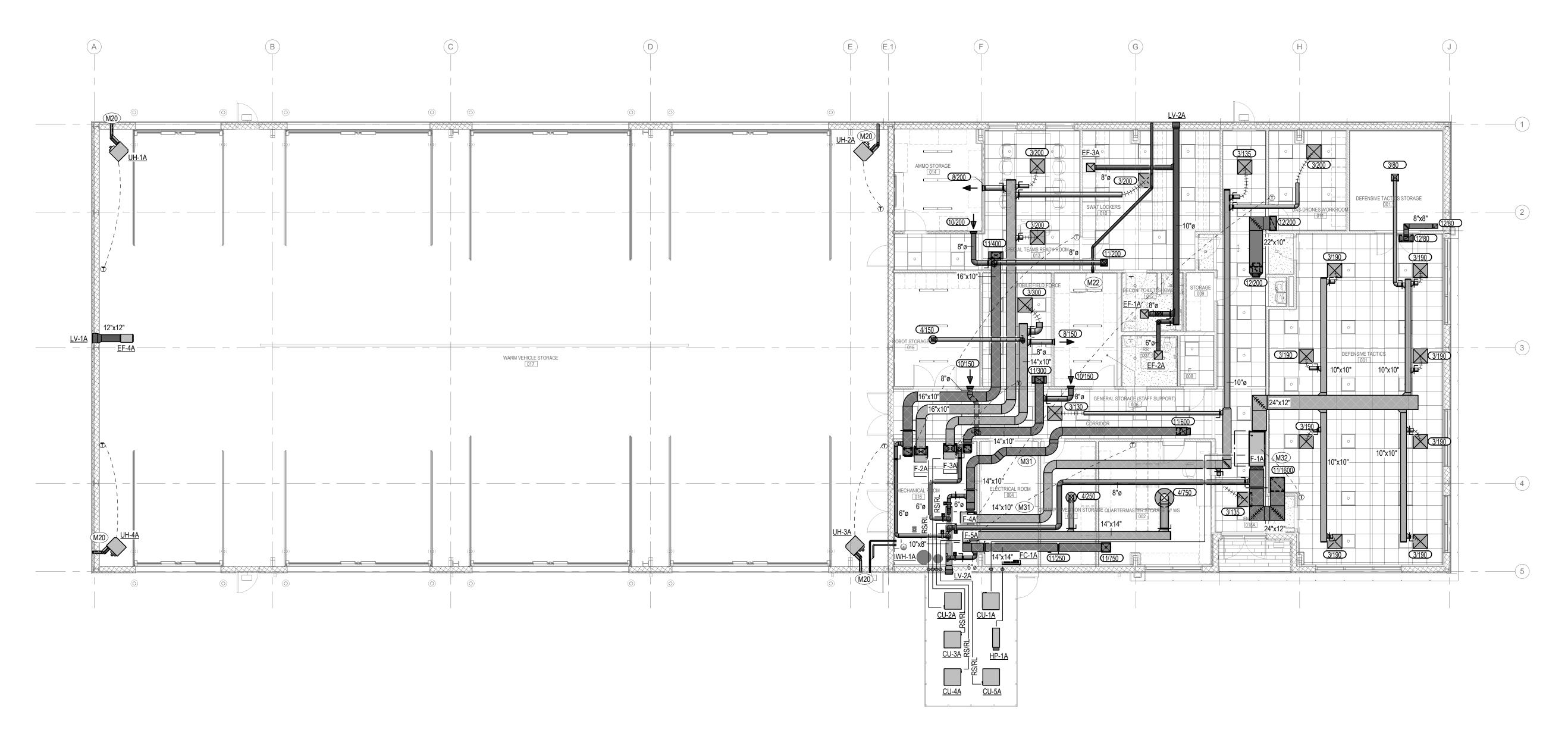
Revisions:

**BID ISSUE** 

ssue Date: 2022.02.10

Drawn by Checked by:

**MECHANICAL GENERAL NOTES** AND LEGEND



#### **PLAN NOTES**

- A. REFRIGERANT PIPING SIZES PER MANUFACTURER'S RECOMMENDATION BASED ON FINAL FIELD ROUTING. INSTALL PIPING PER MANUFACTURER'S RECOMMENDATIONS. ROUTE PIPING FROM OUTDOOR UNIT TO CORRESPONDING INDOOR UNIT ABOVE CEILINGS AND WITHIN WALLS. COORDINATE ROUTING WITH ALL TRADES PRIOR TO INSTALLATION. PIPING IS SHOWN AS SINGLE LINE FOR CLARITY.
- B. DO NOT FABRICATE OR PURCHASE DUCTWORK OR EQUIPMENT PRIOR TO CONFIRMING ALL ROUTING AND INSTALLATION
- REQUIREMENTS WITH ALL TRADES. C. PROVIDE A SEPARATE DUCT RUNOUT FROM EACH AIR DEVICE TO THE NEAREST DUCT MAIN. DUCT RUNOUTS TO MATCH AIR DEVICE
- NECK SIZE UNLESS NOTED OTHERWISE. D. TAB CONTRACTOR TO COORDINATE WITH CONTROL CONTRACTOR AND SET UP ACCURATE DUCT PRESSURE SETTINGS AND FAN-COIL UNIT FLOW SETTINGS FOR THE MODES LISTED IN THE SEQUENCE OF OPERATION.
- M20 ROUTE VENT AND COMBUSTION AIR TO EXTERIOR AND TERMINATE WITH MANUFACTURER TERMINATION AND CONCENTRIC KIT. SEAL WALL PENETRATION PER MANUFACTURER RECOMMENDATIONS.
- M22 ROUTE VENT FROM DRYER TO TERMINATE AT EXTERIOR WALL WITH WALL CAP PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. WALL CAP COLOR BY ARCHITECT. DRYER VENT TO BE CONSTRUCTED PER CODE REQUIREMENTS. PROVIDE WITH BACKDRAFT DAMPER AT TERMINATION. EACH VENT TO HAVE MAXIMUM 2 ELBOWS AND MAX 44 FT LENGTH OF DUCT WITH LOUVERED OR BOX HOOD. (BASED ON MAYTAG MED6230HC DRYER). PROVIDE 10' 0" CLEARANCE FROM ALL AIR INTAKE OPENINGS AND 3' 0" CLEARANCE FROM ALL OPERABLE OPENINGS. COORDINATE FINAL VENT ROUTING/LENGTH REQUIREMENTS WITH GENERAL CONTRACTOR BASED ON FINAL DRYER SPEC. SEAL ANNULAR SPACE AROUND DUCT AT RATED ASSEMBLY PENETRATION PER CODE REQUIREMENTS.
- M31 DO NOT ROUTE ANY DUCT OVER ELECTRICAL PANELS.
- M32 UNIT TO BE LOCATED HORIZONTALLY ABOVE FINISH CEILING. UNIT TO BE CONFIGURED IN SUCH A WAY TO ALLOW FOR EASY SERVICE



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**IDAHO FALLS POLICE** HEADQUARTERS - AUXILIARY **BUILDING** 

IDAHO FALLS, ID

1047-20

Revisions:

**BID ISSUE** 

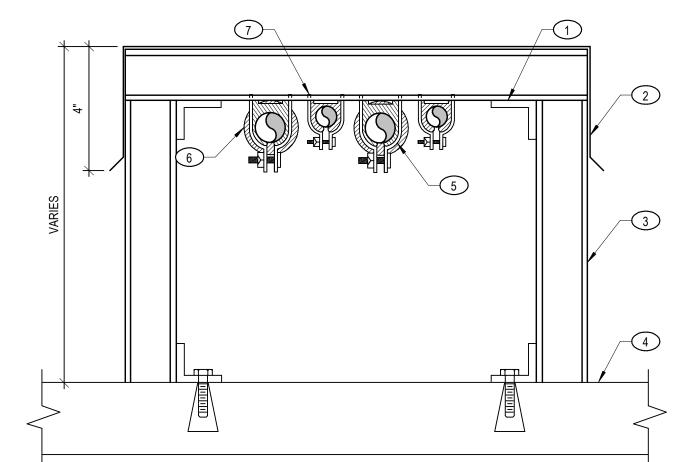
Issue Date: 2022.02.10

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**AUXILIARY BUILDING MECHANICAL** 

**FLOOR PLAN** 

AB M-111



**KEYNOTES:** 

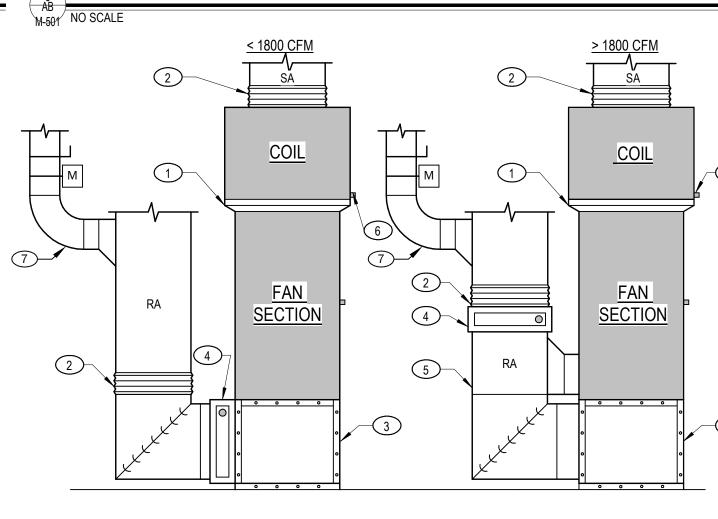
- 1. ANGLE IRON UNISTRUT P1026 (TYP OF 4). 2. 18 GAUGE GALVANIZED SHEET METAL PROTECTIVE COVER. RUN FROM COND. UNIT TO BUILDING.
- 3. 15/8" x 15/8" UNISTRUT CHANNEL GALVANIZED (TYP).
- CONCRETE. 5. SECURE REFRIGERANT PIPING TO SUPPORTS WITH "HYDRA-ZORB" "CUSH-A-
- CLAMP" OR EQUAL (TYP). 6. BUTT INSULATION OF SUCTION LINE AGAINST CLAMP ASSEMBLY. 7. UNISTRUT PIPE CLAMP (TYP).

1 24" MAX

#### EXTERIOR REFRIGERANT PIPE SUPPORT

M-501 NO SCALE

#### TYPICAL DUCT SLICE



#### **KEYNOTES:**

**KEYNOTES:** 

DIMENSION "D".

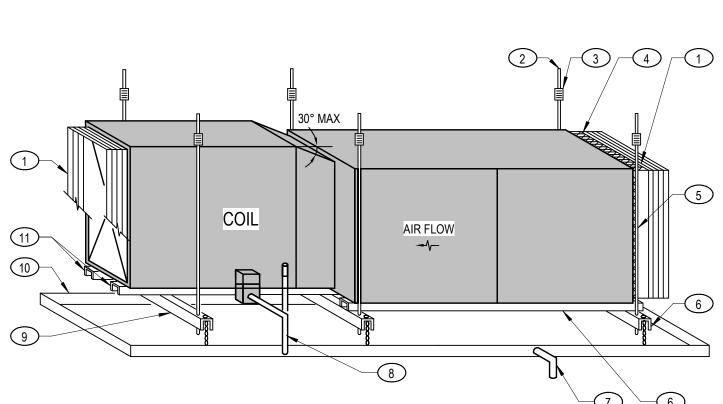
1. DISTANCE MUST BE LESS THAN 33% OF

- 1. DUCT TRANSITION AS REQUIRED.
- 2. FABRIC DUCT FLEXIBLE CONNECTION. 3. SHEET METAL RETURN AIR PLENUM AND MOUNTING STAND. SLOTTED CHANNEL
- FRAME SECURED TO FAN COIL AND FLOOR. 4. FILTER CABINET BY UNIT MANUFACTURER. PROVIDE MINIMUM MERV 8 FILTER UNLESS NOTED OTHERWISE
- 5. PROVIDE BOTTOM AND SIDE RETURN TO ACHIEVE SCHEDULED AIRFLOW (PER MANUFACTURER).
- 6. ROUTE TRAPPED CONDENSATE PIPING TO NEAREST FLOOR DRAIN / SINK UNLESS NOTED OTHERWISE. PROVIDE CONDENSATE PUMP AS NECESSARY.
- 7. OUTSIDE AIR VENTILATION DUCT. PROVIDE 24 V MOTORIZED DAMPER, TRANSFORMER, AND MANUAL DAMPER. INTERLOCK DAMPER TO OPEN DURING OCCUPIED HOURS. BALANCE ADJACENT MANUAL DAMPER TO PROVIDE SCHEDULE OUTSIDE AIR AS NOTED IN EQUIPMENT SCHEDULE.

#### NOTES:

- A. SEAL AND CAULK ALL DUCT CONNECTIONS. B. INSTALL REFRIGERANT LINES PER MANUFACTURERS INSTALLATION INSTRUCTIONS. ROUTE REFRIGERANT LINES FROM INDOOR UNIT TO OUTDOOR UNIT.
- C. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.

# TYPICAL VERTICAL FAN COIL/FURNACE INSTALLATION



#### **KEYNOTES:**

- 1. FABRIC DUCT FLEXIBLE CONNECTION. 2. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND STRUCTURAL FOR ADDITIONAL REQUIREMENTS. 3. VIBRATION ISOLATOR (TYP).
- 4. FILTER FRAME/BOX EXTERNAL OF EQUIPMENT. PROVIDE WITH MINIMUM MERV 8 FILTER UNLESS NOTED OTHERWISE. 5. DO NOT BLOCK FILTER ACCESS OR EQUIPMENT ACCESS DOORS WITH HANGER RODS.
- 6. SLOTTED CHANNEL CROSS MEMBER SUPPORT (TYP OF 2). 7. PIPE DRAIN FROM DRAIN PAN TO INDIRECT AT NEAREST CONSPICUOUS FLOOR DRAIN/SINK UNLESS NOTED OTHERWISE. PROVIDE
- CONDENSATE PUMP AS NECESSARY. 8. PIPE PRIMARY AND OVERFLOW DRAIN CONNECTIONS FROM EQUIPMENT TO INDIRECT AT NEAREST CONSPICUOUS FLOOR DRAIN/SINK UNLESS NOTED OTHERWISE. PROVIDE

CONDENSATE PUMP AS NECESSARY.

9. SLOTTED CHANNEL CROSS MEMBER SUPPORT 10. DRAIN PAN 3" BEYOND EQUIPMENT HUNG FROM SUPPORT FRAMING AND MINIMUM 1/2" DEEP. 11. SLOTTED CHANNEL CONTINUOUS SUPPORT UNDER ENTIRE LENGTH OF EQUIPMENT.

A. ALL SLOTTED CHANNELS FOR SUPPORT ARE 1

C. INSTALL REFRIGERANT LINES PER

REQUIREMENTS.

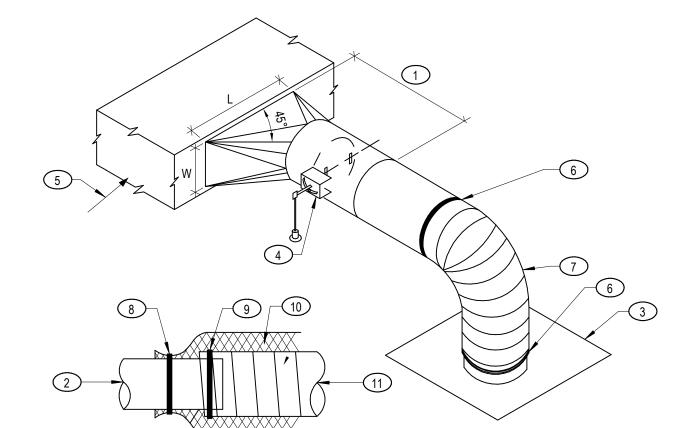
- B. DRAIN PAN TO BE CONSTRUCTED OF MINIMUM 24 GAUGE GALVANIZED SHEET METAL.
- ROUTE REFRIGERANT LINES FROM INDOOR UNIT TO OUTDOOR UNIT. D. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR FILTER REPLACEMENT AND

MANUFACTURERS INSTALLATION INSTRUCTIONS.

SERVICE ACCESS REQUIREMENTS. PROVIDE RATED ACCESS PANEL AS REQUIRED. E. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR ADDITIONAL

#### TYPICAL HORIZONTAL FAN COIL/FURNACE INSTALLATION

M-501 NO SCALE



#### **KEYNOTES:**

- 1. 45° TAP AND DAMPER ASSEMBLY IS PRE-MANUFACTURED (SEE SPECIFICATIONS FOR APPROVED MANUFACTURES), DO NOT
- FABRICATE IN SHOP OR FIELD.
- 2. RIGID ROUND DUCTOR DIFFUSER COLLAR.
- 3. CEILING DIFFUSER. 4. LOCKING QUADRANT HANDLE OR REMOTE CEILING OPERATOR WHERE DAMPER IS INACCESSIBLE (OPERATOR EXTENSION
- WHERE INSULATED). 5. AIR FLOW.
- 6. SEE SECTION A. FOR FLEX DUCT APPLICATIONS. 7. INSULATED FLEX DUCT MAX LENGTH 8' - 0" OR RIGID ROUND DUCT. FLEX DUCT MAY BE INSTALLED ABOVE ACCESS CEILINGS. RIGID

DUCT MUST BE INSTALLED ABOVE HARD OR

- IN ACCESSIBLE CEILINGS. 8. NYLON CLAMP OVER INSULATION. 9. NYLON CLAMP OVER FLEX DUCT.
- 10. INSULATION. 11. FLEX DUCT.

#### NOTES:

- A. TAKE-OFFS SHOULD NOT BE INSTALLED
  - CLOSER THAN TWO DUCT WIDTHS TO ELBOWS OR INTERSECTIONS. B. AREA OF LxW TO BE EQUAL TO 1.5 x AREA
  - BRANCH DUCT. C. FLEX DUCT IS NOT ALLOWED ABOVE HARD OR INACCESSIBLE CEILINGS.

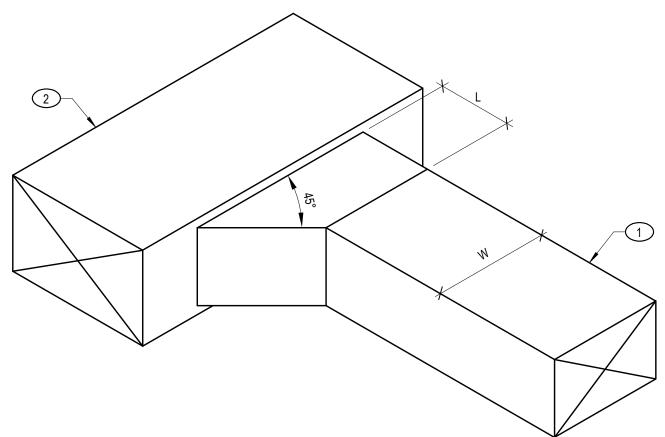
#### TYPICAL BRANCH DUCT AND GRILLE

TYPICAL DUCT BRANCH CONNECTION

TYPICAL FLEXIBLE DUCT SUPPORT

M-501 NO SCALE

M-501 NO SCALE

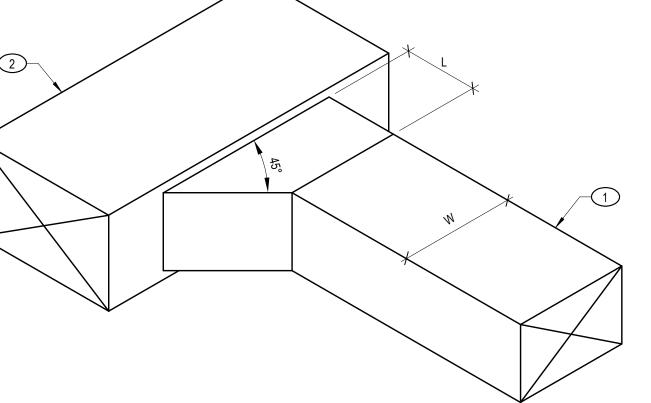


#### **KEYNOTES:**

1. AIR BRANCH DUCT (TYP). MAIN AIR DUCT.

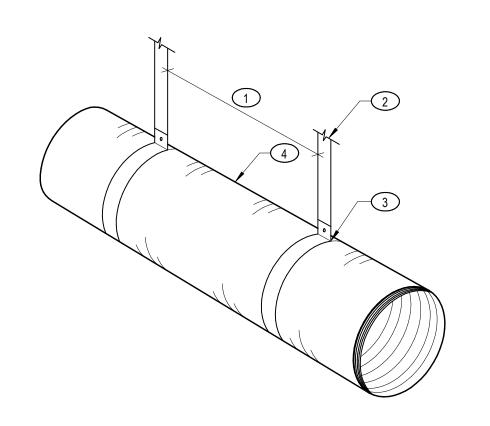
#### NOTES:

A. L = 1/4 W (4'' MINIMUM).



**KEYNOTES:** 1. 2' - 0" MAX.

2. ATTACH TO STRUCTURE. 1" x 18" GAUGE BAND CLAMP.
 MAX. SAG: 1/2" / FT. OF SUPPORT SPACING.



IDAHO FALLS, ID

Project No. 1047-20

Revisions:

Architects Design Group

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ENGINEERING SYSTEM

SOLUTIONS

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JOB NUMBER: 21.3011-B21

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**IDAHO FALLS** 

- AUXILIARY

**BUILDING** 

**POLICE** 

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**BID ISSUE** 

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Drawn by:

Checked by:

**MECHANICAL** 

**DETAILS** 

AB M-501

#### **KEYNOTES:**

- 1. 12" O.C. MAX IN DIRECTION OF AIR FLOW (IF DUCT IS FABRICATED ON AUTOMATED COIL LINE, THIS DEMENSION MAY BE INCREASED TO 14" MAX). 2. SHEET METAL DUCT.
- DUCT LINER.
- 4. NOT MORE THAN 2" FROM EDGE OF LINER. 5. FASTENERS (TYP). 6. 12" O.C. MAX (TYP).

#### NOTES:

A. ALL TRANSVERSE AND LONGITUDINAL EDGES OF LINER TO BE COATED WITH ADHESIVE.

TYPICAL DUCT LINER

#### IDAHO FALLS POLICE DEPARTMENT – AUXILIARY BUILDING

SEQUENCE OF OPERATION

THE BUILDING TO BE EQUIPPED WITH A FULL HVAC BUILDING MANAGEMENT SYSTEM (BMS OR DDC). THE SYSTEM TO BE AUTOMATED LOGIC AND INSTALLED BY CLIMA-TECH (MIKE.SCOTT@CLIMA-TECH.COM). THE CONTRACTOR MUST INCLUDE CLIMA-TECH AS THE CONTROLS SUB-CONTRACTOR. THE BMS TO BE REMOTELY ACCESSIBLE AND INCORPORATE A FRONT END WITH DETAILED EQUIPMENT GRAPHICS AND FLOOR PLANS APPROVED BY THE CITY OF IDAHO FALLS PERSONNEL. CONTROL CONTRACTOR TO PROVIDE ALL HARDWARE, SOFTWARE, LICENSES, DEVICES, WIRING, CONTROLLERS, NETWORK, PROGRAMMING, ETC. FOR A COMPLETE AND FULLY FUNCTIONAL CONTROL SYSTEM. CONTROL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL CONDUIT. SOME CONTROL CONDUIT MAY BE INCLUDED IN THE ELECTRICAL DRAWINGS AND WILL BE PROVIDED BY THE ELECTRICIAN. INCORPORATE ALARMS WHEN ANY SENSOR READS PLUS OR MINUS 5 DEGREES FROM SET POINT. INITIATE TRENDING FOR ALL POINTS. ALL SET POINTS ARE TO BE ADJUSTABLE.

#### <u>FURNACE</u>

ENABLE SUPPLY FAN DURING OCCUPIED SCHEDULE AND CYCLE FAN DURING UNOCCUPIED SCHEDULE ON CALL FOR COOLING OR HEATING. OPEN VENTILATION AIR DAMPER DURING OCCUPIED SCHEDULE. ON CALL FOR COOLING, ENABLE CONDENSING UNIT FAN AND COMPRESSOR TO MAINTAIN SPACE TEMPERATURE COOLING SET POINT.

ON CALL FOR HEATING, ENABLE BURNER AND CHANGE GAS VALVE BETWEEN 15T STAGE AND 2<sup>ND</sup> STAGE HEAT TO MAINTAIN SPACE TEMPERATURE HEATING SET

MONITOR OUTSIDE AIR, RETURN AIR, SUPPLY AIR, AND SPACE TEMPERATURES.

#### ONE-TO-ONE FAN-COIL

CYCLE FAN ON CALL FOR COOLING OR HEATING.

ON CALL FOR COOLING, ENABLE HEAT PUMP UNIT FAN AND COMPRESSOR TO MAINTAIN SPACE TEMPERATURE COOLING SET POINT.

ON CALL FOR HEATING, ENABLE HEAT PUMP UNIT FAN, COMPRESSOR, AND REVERSING VALVE TO MAINTAIN SPACE TEMPERATURE HEATING SET POINT.

MONITOR RETURN AIR, SUPPLY AIR, AND SPACE TEMPERATURES.

#### EXHAUST FAN

ENABLE FAN DURING OCCUPIED SCHEDULE. MONITOR FAN STATUS. PROVIDE PUSH BUTTON TIMED OVERRIDE WHEN INDICATED ON DRAWINGS.

#### NATURAL GAS UNIT HEATER

ENABLE HEATER AND MODULATE GAS VALVE TO MAINTAIN SPACE HEATING TEMPERATURE (OCCUPIED/ UNOCCUPIED) SET POINT. MONITOR FAN STATUS AND ALL SAFETIES.

2017 ASHI	RAE Handbo	ook - Found	lamentals (IF	P)											
				]	IDAHO FA	LLS REG	IONAL, ID	, USA (WM	IO: 725785	)					
Lat:43	3.516N	Long:11	2.067W	Elev:	4729		StdP: 12.35	;	Ti	me zone:-7.	00	Period	1:90-14	WBAN	V:24145
Annual He	ating and Hu	ımidificatio	n Design Co	nditions											
Coldest	Heatir	og DR		Humi	dification D	P/MCDB as	nd HR		C	oldest mont	h WS/MCD	Β		PCWD to	
Month	Ticatii	ig DD		99.6%			99%		0.4	4%	1	%	99.69	% DB	
141011111	99.6%	99%	DP	HR	MCDB	DP	HR	MCDB	WS	MCDB	WS	MCDB	MCWS	PCWD	
1	-6.6	-0.3	-11.7	3.5	-5.8	-6.0	4.7	0.3	29.6	34.1	27.0	31.8	5.8	0	
Annual Co	oling, Dehur	nidification	, and Enthal	py Design (	Conditions										
TT	Hottest			Cooling D	B/MCWB				]	Evaporation	WB/MCDI	3		MCWS/	PCWD to
Hottest Month	Month	0.4	1%	19	%	2	%	0.4	1%	1	%	2	%	0.49	6 DB
Wolldi	DB Range	DB	MCWB	DB	MCWB	DB	MCWB	WB	MCDB	WB	MCDB	WB	MCDB	MCWS	PCWD
7	35.4	92.1	60.9	89.6	60.5	86.7	59.6	64.7	83.2	63.0	81.9	61.5	81.8	10.4	200
		Γ	Dehumidifica	tion DP/M	CDB and H	R					Enthalpy	y/MCDB			Б.
	0.4%			1%			2%		0.4	4%	1	%	2	%	Extreme Max WB
DP	HR	MCDB	DP	HR	MCDB	DP	HR	MCDB	Enth	MCDB	Enth	MCDB	Enth	MCDB	WIAX WD
58.7	87.9	71.0	56.2	80.3	68.9	54.2	74.6	68.0	32.2	83.0	30.7	81.6	29.6	81.4	74.3
Extreme A	nnual Design	1 Condition	S												
E	reme Annual	We		Ext	treme Annu	al Temperat	ure		n-\	Year Return	Period Valu	es of Extren	ne Tempera	ture	
EXU	reme Annuai	WS		Me	ean	Standard	deviation	n=5	years	n=10	years	n=20	years	n=50	years
1%	2.5%	5%		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
27.2	24.3	20.7	DB	-13.2	96.7	7.8	2.6	-18.8	98.6	-23.3	100.1	-27.7	101.6	-33.4	103.5
			WB	-13.6	68.4	7.5	2.8	-19.1	70.5	-23.5	72.1	-27.7	73.7	-33.2	75.8

_		_		
Ventila	ation &	Fyha	nust 1	ſahle

	Ventuation & Land	aust ie	IDIC	
	Roomname	DCV Min (CFM)	Total Ventilation (CFM)	Total Exhaust (CFM)
	017 Warm Building Storage	N/A	0	500
	001 Defensive Tactics	N/A	92	0
	011 Drones	N/A	14	0
	007 Rest room	N/A	0	70
	018 Corridor	N/A	44	0
	010 Swat Lockers	N/A	0	111
Aux Building	013 Ready Room	N/A	68	0
	005 Mobile Field Force	N/A	26	0
	002, 003 Quartermaster	N/A	36	0
	012 Decon	N/A	0	140
	Aux Building		278	821

#### **AUX FURNACE SCHEDULE (F)**

					N	IG HEATII	NG	DX COOLING		ELI	ECTRICAL	_	DIME	NSIONS	S (IN)			
MARK	LOCATION	CFM	OSA CFM	ESP (IN WC)	1ST STAGE INPUT (MBH)	2ND STAGE INPUT (MBH)	MIN EFF (%)	NOM (MBH)	VOLT	PH	FLA	МОСР	L	W	н	OPER WT (LBS)	CORR	MANUFACTURER & MODEL
F-1A	DEFENSIVE TACTICS	1600	95	0.5	72	110	96	48	120	1	10.9	15	30	21	65	150	CU-1A	LENNOX EL296
F-2A	SWAT	800	70	0.5	N/A	30	96	24	120	1	6.8	15	30	18	60	150	CU-2A	LENNOX EL 196
F-3A	MOBILE FIELD	600	30	0.5	N/A	30	96	18	120	1	6.8	15	30	18	58	150	CU-3A	LENNOX EL 196
F-4A	MOBILE FIELD	600	30	0.5	N/A	30	96	18	120	1	6.8	15	30	18	58	150	CU-4A	LENNOX EL 196
F-5A	QUARTERMASTER	1000	60	0.5	N/A	45	96	30	120	1	6.8	15	30	18	65	150	CU-5A	LENNOX EL 196

TRANE, CARRIER, LENNOX, AND YORK ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

ESP INCLUDES EXTERNAL DUCTING ONLY. ESP DOES NOT INCLUDE PRESSURE DROP THROUGH EVAPORATOR COIL, HEAT EXCHANGER, OR AIR FILTER. PROVIDE CONCENTRIC VENT KIT, HIGH ALTITUDE ACCESSORIES, RETURN AIR BASE, FILTER CABINET, CONDENSATE NEUTRALIZATION KIT, CONDENSATE PUMP, BMS READY TERMINAL STRIP, F-1A ONLY - WATER LEVEL

					ΑUX	( EXH	AUST F	AN (EF	)						
							DAMPER				ELE	CTRIC	CAL	OPER	
MARK	LOCATION	TYPE	CFM	ESP (IN WC)	FAN RPM	MAX SONES	(GRAVITY OR MOTOR)	CONTROL METHOD	OPENING SIZE (IN)	EAT (°F)	VOLT	PH	НР	WT (LBS)	MANUFACTURER & MODEL
EF-1A	AUX DECON/TOLIET/SHOWER	CEILING	140	0.4	1100	3	GRAVITY	WALL SWITCH	N/A	70	120	1	0.17	15	COOK GC
EF-2A	AUX RR 007	CEILING	70	0.4	1100	3	GRAVITY	WALL SWITCH	N/A	70	120	1	0.17	15	COOK GC
EF-3A	SWAT LOCKERS	CEILING	115	0.4	1100	3	GRAVITY	BMS	N/A	70	120	1	0.17	15	COOK GC
EF-4A	WARM VEHICLE STORAGE	INLINE	500	0.5	1677	9	MOTOR	BMS	N/A	70	120	1	0.17	65	COOK SQN

COOK, GREENHECK, PENNBARRY, AND CAPTIVEAIRE ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

PROVIDE WITH VIBRATION ISOLATION AND FAN SPEED CONTROLLER. PROVIDE WITH AUTOMATIC BELT TENSIONER FOR INLINE FAN.

LENNOX, SAMSUNG, LG, DAIKIN, MITSUBISHI ARE APPROVED MANUFACTURERS.HAIL GUARD KIT.

PROVIDE WITH BELT GUARD AND INLET SCREEN FOR INLINE FAN.

DETECTION DEVICE CONFORMING TO UL508 THAT WILL SHUT DOWN UNIT UPON WATER DETECTION.

#### **AUX FAN-COIL SCHEDULE (FC)**

											•	•				
				ESP (IN	SENSIBLE	HEATING		ELECTR	ICAL		DIMI	MENSI	ONS (IN)	OPER WT		MANUFACTURER
MARK	SIZE	TYPE	CFM	WC)	COOLING (MBH)	(MBH)	MCA	МОСР	VOLT	PH	D	W	Н	(LBS)	CORR UNIT	& MODEL
FC-1A	24	WALL	650	N/A	21	17	0.5	15	208	1	47	11	14	60	HP-1A	LENNOX MWMB
NOTEC:																

LENNOX, SAMSUNG, LG, DAIKIN, MITSUBISHI ARE APPROVED MANUFACTURERS. PROVIDE CONDENSATE PUMP. LOW AMBIENT MODEL WITH COOLING DOWN TO -22 AND 95% COOLING CAPACITY AT -13. OUTDOOR COOLING DB = 95, INDOOR COOLING DB/WB = 75/63, OUTDOOR HEATING DB = -13, INDOOR HEATING DB = 70. BMS READY TERMINAL STRIP.

						AUX	K HEAT PUMF	P (HP)						
			COOLING		HEATING			TRICAL		OPER	DIN	IENSIC	NS	MANUFACTURER
MARK	CORR UNIT	SIZE	(MBH)	SEER	(MBH)	HSPF	VOLTAGE/PHASE	MCA	МОР	WT (LBS)	L	w	Н	& MODEL
HP-1A	FC-1A	24	21	20	17	10	208/1	20	30	165	41	18	32	LENNOX MLA
NOTES:														

				AUX	COND	EN	SING	UNIT	(CU)					
MADK	LOCATION	NOM COOLING	OSA	MIN		ELEC	TRICAL	_	DIME	NSIONS	S (IN)	OPER	CORR	MANUFACTURER
MARK	LOCATION	(MBH)	TEMP (°F)	SEER	VOLT	PH	MCA	MOCP	D	W	Н	WT (LBS)	UNIT	& MODEL
CU-1A	ON GRADE	48	100	14	208	1	26.7	45	29	29	40	235	F-1A	LENNOX 14ACX
CU-2A	ON GRADE	24	100	14	208	1	15	25	29	29	32	165	F-2A	LENNOX 14ACX
CU-3A	ON GRADE	18	100	14	208	1	12.4	20	25	25	32	145	F-3A	LENNOX 14ACX
CU-4A	ON GRADE	18	100	14	208	1	12.4	20	25	25	32	145	F-4A	LENNOX 14ACX
CU-5A	ON GRADE	30	100	14	208	1	17.1	25	29	29	40	180	F-5A	LENNOX 14ACX

NOTES:
PROVIDE LOW AMBIENT KIT, CRANKCASE HEATER, FREEZESTAT, TXV REFRIGERANT METERING DEVICE. TRANE, CARRIER, LENNOX, AND YORK ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

		Al	JX LOUVER S	SCHEDU	LE (LV	<b>'</b> )		
MARK	CFM	MAX VELOCITY (FPM)	MIN FREE AREA (SQ FT)	PRESSURE DROP	DIMEN: W	SIONS H	MANUFACTURER & MODEL	NOTES
LV-1A	500	700	0.71	0.09	12	24	RUSKIN ELF375DXH	1,2
LV-2A	325	700	0.47	0.09	12	18	RUSKIN ELF375DXH	1,2

NOTES:

RUSKIN, GREENHECK, NAILOR, AMERICAN WARMING & VENTILATION CO., AND ARROW UNITED ARE APPROVED MANUFACTURERS. PROVIDE WITH BIRD SCREEN. COLOR BY ARCHITECT.

	AUX	(G	AS I	UNIT F	HEAT	ER (L	JH)		
CFM	VOLT	PH	FLA	МОСР	DIM	ENSIONS	(IN)	OPER WT	MANUFACTURER &
CFIVI	VOLI	гп	FLA	IVIOCE	L	W	Н	(LBS)	MODEL
1200	120	1	7.3	15	27	41	17	175	REZNOR UBZ
1200	120	1	7.3	15	27	41	17	175	REZNOR UBZ

# UH-4A 75 83 1200 120 1 7.3 15 27 41 17 175 REZNOR UBZ

NOTES:

SEPARATED COMBUSITON, HIGH STATIC BLOWER, 2-STAGE GAS VALVE, 4" VENT AND 4" COMBUSTION AIR,

SEPARATED COMBUSITON, HIGH STATIC BLOWER, 2-STAGE GAS VALVE, 4" VENT AND 4" COMBUSTION AIR, HORIZONTAL COMBUSTION AIR/VENT KIT WITH CONCENTRIC ADAPTOR, HANGING KIT, BMS READY TERMINAL

UH-3A 75 83 1200 120 1 7.3 15 27 41 17 175 REZNOR UBZ

ARK	FLOW TYPE	FACE SIZE	NECK SIZE	CFM RANGE	MAX T.P.	N.C. MAX	THROW	MODEL	NOTES
			6" Ø	0 - 100	0.08	12	6-8		
		12" x 12"	8" Ø	101 - 175	0.10	10	8 - 11		2, 3, 4
	SQUARE PLAQUE CEILING SUPPLY	24" x 24"	6" Ø	80 - 200	0.07	21	4 - 9		
3			8" Ø	201 - 295	0.08	20	8 - 12	TITUS OMNI	
	CLILING SOLT LT		10" Ø	296 - 385	0.08	15	11 - 13		
			12" Ø	386 - 465	0.08	12	13 - 15		
			14" Ø	466 - 640	0.11	14	13 - 17		
		14" Ø	6" Ø	80 - 170	0.08	19	6-8		
	DUCT MOUNTED	18" Ø	8" Ø	171 - 335	0.08	20	6-8		2, 4
4	ROUND PLAQUE	23" Ø	10" Ø	336 - 490	0.08	23	7 - 9	TITUS R-OMNI	
	SUPPLY	27" Ø	12" Ø	491 - 550	0.05	22	11 - 12		
		32" Ø	14" Ø	551 - 800	0.04	23	10 - 12		
		8" x 8"	6"x 6"	0-150	0.08	19	11-18		1, 2, 4, 6
	WALL SUPPLY	10" x 8"	8" x 6"	151 - 210	0.08	21	13-21	TITUS 272R	
		12" x 8"	10" x 6"	211 - 270	0.08	23	20 - 23		
		14" x 8"	12" x 6"	271 - 330	0.08	23	23 - 26		
8		16" x 8"	14" x 6"	331 - 385	0.08	24	26 - 28		
U		14" x 10"	12" x 8"	386 - 455	0.08	25	27 - 30		
		14" x 12"	12" x 10"	456 - 505	0.06	22	30 - 32		
		14" x 14"	12" x 12"	506 - 615	0.06	23	32 - 35		
		16" x 16"	14" x 14"	616 - 855	0.06	24	35 - 42		
		20" x 18"	18" x 16"	856-1000	0.07	47	10 - 20		
		12" x 8"	10" x 6"	0 - 205	0.10	20	N/A TITUS 3:		1, 2
	WALL RETURN OR EXHAUST	14" x 10"	12" x 8"	206 - 300	0.10	20			
10		20" x 14"	18" x 12"	301 - 745	0.10	20		TITUS 355RL	
		24" x 18"	22" x 16"	746 - 1130	0.09	20			
		24" x 22"	22" x 20"	1131 - 1450	0.08	20			
		8" x 8"	6" x 6"	6" 0 - 135 0.08 17					
	CEILING EGGCRATE RETURN OR EXHAUST	12" x 12"	10" x 10"	136 - 415	0.08	18	18 19 19 19	TITUS 50R	1, 2, 3
11		16" x 16"	14" x 14"	416 - 855	0.08	19			
		20" x 20"	18" x 18"	856 - 1450	0.08	19			
		24" x 12"	22" x 10"	0 - 960	0.08	19			
		24" x 24"	22" x 22"	961 - 2200	0.08	20			
	CEILING EGGCRATE	8" x 8"	6" x 6"	0 - 80	0.03	10	- N/A	TITUS 50R	1, 2, 3
		12" x 12"	10" x 10"	81 - 240	0.03	10			
12		16" x 16"	14" x 14"	241 - 495	0.03	10			
12	TRANSFER	20" x 20"	18" x 18"	496 - 835	0.03	10		11100 0010	
		24" x 12"	22" x 10"	0 - 555	0.03	10			
		24" x 24"	22" x 22"	556 - 1260	0.03	10			

\*REFER TO FLOOR PLANS FOR THROW PATTERN INDICATED BY ARROWS (3-WAY, 2-WAY, OR 1-WAY). SUPPLY AIR DEVICE INTENDED TO BE 4-WAY THROW IF ARROWS ARE NOT PRESENT.

\*\*NOT ALL AIR DEVICES IN THE AIR DEVICE SCHEDULE ARE USED.

1. PROVIDE FRAME COMPATIBLE WITH CEILING OR WALL TYPE. VERIFY FRAME TYPE OF ALL AIR DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN BEFORE ORDERING. COLOR BY ARCHITECT.

2. TITUS, CARNES, NAILOR, PRICE, METALAIRE, AND KRUEGER ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

3. ONLY 24" x 24" OR 24" x 12" FACE SIZE AIR DEVICES TO BE USED IN LAY-IN GRID CEILINGS. VERIFY CEILING TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN.

4. THROW VALUE RANGE IS FOR TERMINAL VELOCITIES OF 50 FPM BASED ON THE CFM RANGE. THROW VALUES BASED ON ISOTHERMAL CONDITIONS.

5. FACE SIZE TO CORRESPONDING CORE SIZE - 15"x15" FACE : 9"x9" CORE, 18"x18" FACE: 12"x12" CORE, 24"x24" FACE: 18"x18" CORE. 6. DOUBLE DEFLECTION GRILLE. PERFORMANCE IS BASED ON 22.5 DEGREE DEFLECTION.

7. PROVIDE ASD-AIR SCOOP DAMPER/ EXTRACTOR. MAX DUCT DIAMETER = 36". MIN DUCT DIAMETER: NECK SIZE HEIGHT - 6":3", 8":4", 10":6", 12":8", 14":10", 16":12".

8. (2) 1" SLOTS WITH TWO-WAY AIR PATTERN.

FOR EXHAUST).

9. AMERICAN ALDES IS APPROVED MANUFACTURER. DUCT PRESSURE MUST BE BETWEEN 0.2" AND 0.8" (POSITIVE FOR SUPPLY AND NEGATIVE

10. PROVIDE OPPOSED BLADE DAMPER WITH SET/ TAMPER RESISTANT SCREW.

11. (1) 3" SLOT WITH JETTHROW PATTERN CONTROLLERS. MULTIPLE 5' LENGTHS FOR CONTINUOUS APPEARANCE

Architects Design Group

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**IDAHO FALLS POLICE** HEADQUARTERS - AUXILIARY **BUILDING** 

IDAHO FALLS, ID

Project No.

Revisions:

1047-20

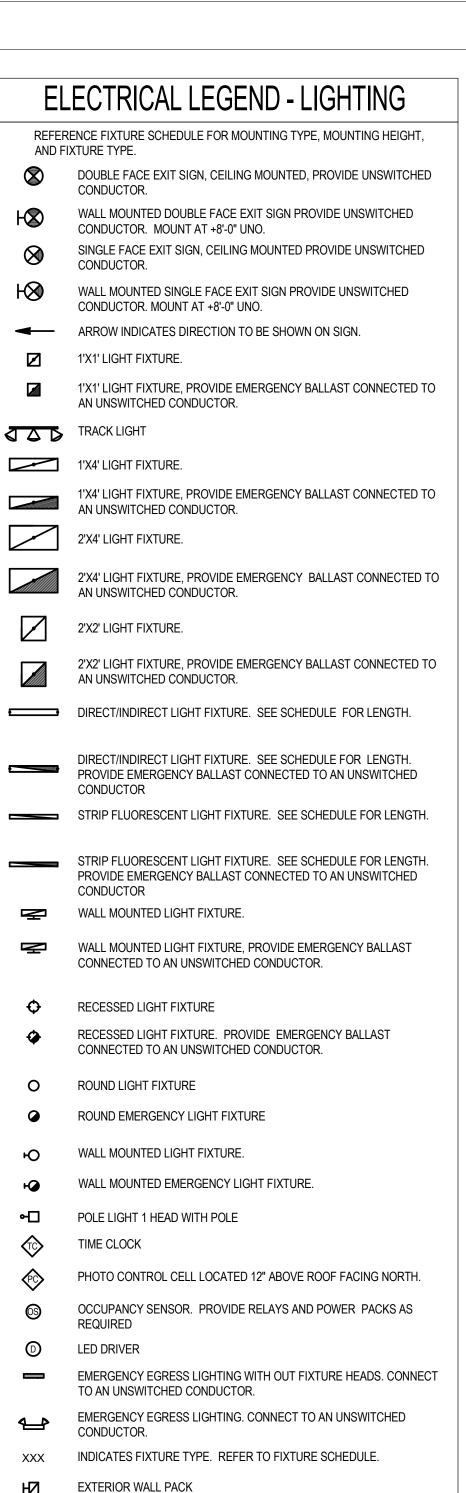
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Issue Date: 2022.02.10

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**AUXILIARY BUILDING MECHANICAL** 

**SCHEDULES** 



CONNECTED TO AN UNSWITCHED CONDUCTOR

CCTV CAMERA POWER SUPPLY

CCTV SYSTEM POWER SUPPLY

CAMERA IN OUTDOOR HOUSING

CEILING MOUNTED CCTV OUTLET

CEILING MOUNTED MOTION SENSOR

PANIC BUTTON - MOUNTED UNDER COUNTER

CCTV OUTLET, +18" UNO

MUDRING WITH VENDOR

CARD READER

FIXED CAMERA

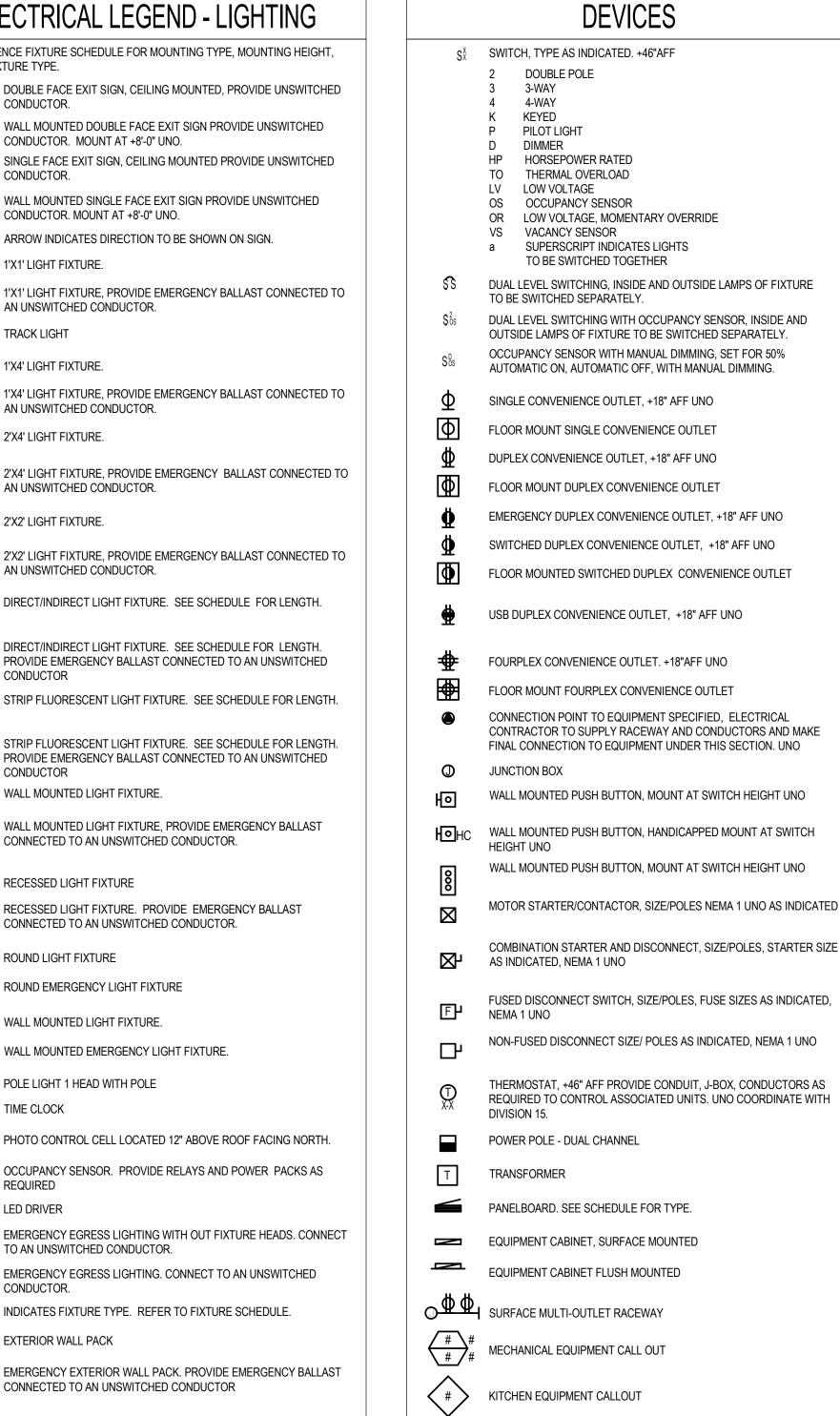
ADJUSTABLE CAMERA (PAN/TILT/ZOOM)

**SECURITY** 

ADJUSTABLE CAMERA (PAN/TILT/ZOOM) IN OUTDOOR HOUSING

SECURITY SYSTEM KEYPAD CONTROLLER COORDINATE BOX SIZE AND

WALL MOUNTED MOTION SENSOR, MOUNTING HEIGHT INDICATED



#### CIRCUITING SYMBOLS CURRENT CARRYING DESIGNATES CIRCUIT ON —— CONDUCTORS EMERGENCY SOURCE UNMARKED CIRCUIT ----— NEUTRAL CONDUCTORS IS CONCEALED IN CEILING OR WALL. MAINTAIN CONDUIT AND CONDUCTOR — GROUNDING CONDUCTOR SIZE THROUGHOUT ENTIRE CIRCUIT. BEGINNING OF INDIVIDUAL ——— — PANEL NAME CIRCUIT(S), CIRCUIT NUMBER(S) INDICATED. CONDUIT DOWN & CONDUIT UP PANEL HOMERUN. (3/4"-2#12,1#12G CONDUCTORS UNO) EXISTING — - CONCEALED IN FLOOR OR UNDERGROUND EDISON STYLE SHARED NEUTRAL CONDUCTORS ARE NOT ALLOWED. EACH 1 POLE BREAKER SHALL BE FURNISHED WITH AN INDIVIDUAL CONDUIT, STUBBED, CAPPED AND MARKED DEDICATED NEUTRAL CONDUCTOR. WITH PULL CORD AS SPECIFIED

N

TRANSFORMER

PAD MOUNT TRANSFORMER

## ONE LINE DELTA WYE TRANSFORMER UNO $\sim$ PANEL BOARD, SEE SCHEDULE FOR TYPE AND SIZE VOLTAGE PHASE CIRCUIT BREAKER, SIZE AND POLES INDICATED FUSE, SIZE AND TYPE INDICATED, PROVIDE FUSE FOR EACH POLE ##A INTERRUPTER SWITCH, SIZE AND POLES INDICATED ##A FUSED SWITCH, SIZE/POLES AND FUSE SIZE INDICATED ##A DRAW OUT CIRCUIT BREAKER, SIZE AND POLES INDICATED INDIVIDUAL BREAKER WITH SHUNT TRIP, SIZE AND POLES INDICATED. NEMA 1 UNO NDIVIDUAL BREAKER, SIZE AND POLES INDICATED. NEMA 1 UNO GROUND FAULT PROTECTION GFP TRANSIENT VOLTAGE SURGE SUPPRESSION LSIGR — ADJUSTABLE BREAKER SETTINGS (PER SPECIFICATIONS): 'L'-LONG TIME 'S'-SHORT TIME 'I'-INSTANTANEOUS 'G'-GROUND FAULT 'R'-ENERGY REDUCING MAINTENANCE SWITCH W/STATUS INDICATOR = GROUND SHUNT TRIP COIL DISCONNECT SWITCH, SIZE AND POLES INDICATED. NEMA 1 UNO

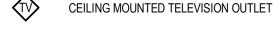
# OVERHEAD SERVICE DROP GENERATOR SET, MAIN BREAKER SIZE INDICATED **AUTOMATIC TRANSFER SWITCH (ATS)** METER AND BASE

#### FIRE ALARM - DESIGN BUILD NOTES

- A. THE FIRE ALARM SYSTEM WILL BE DESIGN BUILD BY THE CONTRACTOR. THE FIRE ALARM CONTRACTOR SHALL PRODUCE A FIRE ALARM SUBMITTAL THAT INCLUDES ALL DRAWINGS, CALCULATIONS AND CUT SHEETS REQUIRED TO OBTAIN COMPLETE APPROVAL FROM ALL APPROVING AGENCIES.
- THE FIRE ALARM CONTRACTOR SHALL PROVIDE FIRE ALARM SUBMITTALS TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO SUBMITTING TO THE AUTHORITY HAVING JURISDICTION AND AND SHALL NOT PROCEED UNTIL THESE SUBMITTALS HAVE BEEN REVIEWED, APPROVED AND RETURNED.
- REFER TO THE ARCHITECTURAL CODE PLAN(S) FOR THE OCCUPANCY TYPES AND OCCUPANCY LOADS FOR EACH AREA.
- D. UTILIZE CURRENTLY ADOPTED CODES AND AMENDMENTS FOR FIRE ALARM REQUIREMENTS.
- THE BUILDING IS FULLY SPRINKLED WITH BOTH WET AND DRY SPRINKLER
- THE FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL ALL FIRE ALARM INITIATING, MONITORING, INTERFACE AND RELATED DEVICES AND EQUIPMENT AS REQUIRED FOR A COMPLETE AND FUNCTIONING CODE COMPLIANT SYSTEM.
- THE FIRE ALARM SYSTEM SHALL PROVIDE ALL REQUIRED NOTIFICATION THROUGH OUT THE FACILITY. COORDINATE THE MOUNTING HEIGHTS OF THE NOTIFICATION DEVICES WITH THE CEILING AND STRUCTURE HEIGHTS IN THE BUILDING. REFER TO ARCHITECTURAL PLANS FOR CEILING/STRUCTURE INFORMATION.
- PROVIDE ALL IN-DUCT AND/OR DUCT SMOKE DUCT DETECTORS AS REQUIRED. COORDINATE THE FINAL QUANTITY AND LOCATIONS WITH MECHANICAL CONTRACTOR.
- THE FIRE ALARM CONTROL PANEL SHALL BE LOCATED IN THE FIRE RISER ROOM. THE NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLIES SHALL BE LOCATED IN ELECTRICAL ROOMS, STORAGE AND SIMILAR ROOMS ADJACENT TO ELECTRICAL
- PROVIDE 120V POWER, CONTROL RELAYS AND IN-DUCT DETECTORS FOR ALL SMOKE AND SMOKE/FIRE DAMPERS. COORDINATE WITH MECHANICAL PLANS.
- PROVIDE SMOKE DETECTORS, RELAYS AND RELATED CONNECTIONS FOR ALL DOOR HOLD OPENS AS REQUIRED.
- PROVIDE ALL 120V CIRCUITS AS REQUIRED TO ACCOMMODATE FIRE ALARM CONTROL PANEL, DRY SYSTEM AIR COMPRESSOR(S), NITROGEN GENERATOR(S) FIRE BELLS, NAC EXTENDER PANELS, AMPLIFIER PANELS AND RELATED ITEMS.
- M. ALL FIRE ALARM CIRCUIT BREAKERS SHALL HAVE A RED HANDLE AND BE LOCKABLE TYPE.
- N. THE FIRE ALARM SYSTEM SHALL INCLUDE A FLUSH MOUNTED REMOTE ANNUNCIATOR LOCATED IN AN OCCUPIED AREA IN THE LOBBY, RECEPTION OR SIMILAR AREA(S). THE LOCATION(S) SHALL BE COORDINATED WITH THE ARCHITECT AND OWNER PRIOR TO PREPARING THE REQUIRED SUBMITTALS.
- O. FIRE ALARM CABLING SHALL BE CONCEALED. AREAS IN WALLS, ABOVE HARD CEILINGS AND SIMILAR (NON-ACCESSIBLE AREAS) SHALL BE IN CONDUIT. EXPOSED CABLING IS NOT ALLOWED.
- PROVIDE ALL DETECTION, MONITOR AND CONTROL DEVICES AS REQUIRED FOR THE ELEVATOR(S).
- Q. THE BUILDING HAS A FIRE PUMP. PROVIDE ALL MONITORING AND CONTROLS AS REQUIRED.
- THE FIRE ALARM CONTRACTOR SHALL PRODUCE RECORD DOCUMENTS OF THE ACTUAL SYSTEM AS INSTALLED. THE RECORD DOCUMENTS SHALL BE PRODUCED TO THE ACCEPTANCE OF THE ARCHITECT AND ENGINEER. ONE COMPLETE SET OF PRINTED DOCUMENTS AND A PDF VERSION SHALL BE
- INSTALL PLENUM RATED FIRE ALARM CONDUCTORS FROM ALL FIRE ALARM DEVICES INDICATED TO THE FIRE ALARM CONTROL PANEL OR NAC EXTENDER PANEL(S) AS REQUIRED. STUB 3/4" CONDUIT FROM DEVICE TO VOID ABOVE CEILING. PROVIDE NAC EXTENDER PANELS (QUANTITY AS REQUIRED) IN LOCATIONS INDICATED AND CIRCUITING AS REQUIRED FOR A COMPLETE INSTALLATION. CIRCUIT THE FIRE ALARM NOTIFICATION AND INITIATION DEVICES PER THE ELECTRICAL SPECIFICATIONS. FURNISH AND INSTALL ALL APPURTENANCES AND PROGRAMMING REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO ELECTRICAL FIRE ALARM SPECIFICATIONS FOR SYSTEM REQUIREMENTS AND SUBMITTAL PROCEDURES.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

#### COMMUNICATIONS

- JUNCTION BOX FOR FUTURE TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE SINGLE-GANG MUD RING WITH BLANK COVER PLATE. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.
- TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT
- FLOOR MOUNTED BOX FOR FUTURE TELEPHONE/DATA OUTLET. JUNCTION BOX WITH SINGLE-GANG MUD RING. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE BLANK COVER
- FLOOR MOUNTED TELEPHONE/DATA OUTLET. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT INDICATED.
- INTERCOM SYSTEM CALL BUTTON. +46" UNO.
- CEILING MOUNTED SPEAKER WITH BACKBOX
- WALL MOUNTED SPEAKER, WITH BACKBOX +80" UNO
- VOLUME CONTROL, +46" UNO
- TELEVISION OUTLET, +18" AFF UNO. PROVIDE 1-1/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE



TELEPHONE TERMINAL BOARD

CT-XX CABLE TRAY, 4" DEEP, WIRE BASKET STYLE, 'XX' INDICATES WIDTH ^^ PROVIDE ALL FITTINGS AND SUPPORT HARDWARE REQUIRED

Α	AMPERES
AC AFF	6" ABOVE BACKSPLASH ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME
AIC AT	AMPS INTERRUPTING CAPACITY  AMP TRIP
ATS AWG	AWIF TRIF AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE
BD BS	BOTTOM OF DECK BOTTOM OF STRUCTURE
C	CEILING MOUNTED
C CB	CONDUIT CIRCUIT BREAKER
CF	COMPACT FLUORESCENT
CKT	CIRCUIT
CO CT	CONDUIT ONLY, PROVIDE PULL-LINE CURRENT TRANSFORMER
CTL	CONTROL
DC (D)	DIRECT CURRENT
(D) DEMO	DEMOLITION DEMOLITION
DET DTT	DETAIL DOUBLE TWIN TUBE
E	EMERGENCY
(E) EC	EXISTING ELECTRICAL CONTRACTOR
EL	EMERGENCY LIGHT
F	FUSE
(F) FACP	FUTURE FIRE ALARM CONTROL PANEL
G/GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
HH HID	HAND HOLE HIGH INTENSITY DISCHARGE
HOA HPS	HAND-OFF-AUTO HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
IG	ISOLATED GROUND
IPCO	IDAHO POWER COMPANY
J-BOX	JUNCTION BOX
KA	KILOAMP
KVA KW	KILO VOLT-AMP KILOWATT
KWH	KILOWATT HOUR
LCP	LIGHTING CONTROL PANEL
MB MBR	MAIN BREAKER MAIN CIRCUIT BREAKER
MCC MDP	MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL
MLO MMC	MAIN LUGS ONLY MODULAR METERING CENTER
MH	METAL HALIDE
MSB MTG	MAIN SWITCH BOARD MOUNTING
N	NEUTRAL
(N) NC	NEW NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC NL	NOT IN CONTRACT NIGHT LIGHT
NO NTS	NORMALLY OPEN NOT TO SCALE
OH OS	OVERHEAD OCCUPANCY SENSOR
P PC	POLES PHOTO-CONTROL
PVC PWR	POLYVINYL CHLORIDE POWER
RE: REC	REFERENCE RECEPTACLE
(R)	RELOCATED
SF	SQUARE FEET
TBD	TO BE DETERMINED
TDR	TIME DELAY RELAY
TK TSP	TOE KICK TWISTED SHIELDED PAIR
TRT	TRIPLE TUBE
TTB	TELEPHONE TERMINAL BOARD
(TYP.)	TYPICAL

UC UNDERCABINET UG UNDERGROUND

VA VOLT-AMPERE

INSTALLED/

INSTALL

U.N.O. UNLESS NOTED OTHERWISE

WG WIRE GUARD
WP WEATHER PROOF/NEMA 3R

PROVIDED/ PROVIDE AND INSTALL / PROVIDED AND

THIS IS A STANDARD LIST OF COMMONLY USED

ELECTRICAL ABBREVIATIONS. SOME OF THE

ABBREVIATIONS SHOWN ABOVE MAY NOT BE

USED IN THIS DRAWING PACKAGE.

PROVIDE BY | INSTALLED BY / PROVIDE AND INSTALL

#### **ELECTRICAL GENERAL NOTES**

- THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.
- ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED UNLESS LOCATED WITHIN DEDICATED ELECTRICAL OR MECHANICAL ROOMS. USE OF SURFACE MOUNTED RACEWAYS IN ALL OTHER SPACES MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE SURFACE RACEWAYS ARE APPROVED, UTILIZE WIREMOLD, OR APPROVED EQUAL, SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
- REFER TO ARCHITECTURAL G SERIES SHEETS FOR THE TYPICAL STANDARD ELEVATION FOR SPECIFIC OUTLETS NOT INDICATED. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON/AT THE DEVICES.
- D. PROVIDE PULL-LINE IN ALL EMPTY CONDUITS.
- TERMINATE ALL LOW-VOLTAGE CONDUITS WITH INSULATED THROAT BUSHING.
- MECHANICAL EQUIPMENT INDICATED IS SHOWN IN AN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- G. ALL NON-LOCKING, 120-V, 15 AND 20-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTENT RECEPTACLES PER NEC 406.12

- CONTRACTOR SHALL COORDINATE WITH AN UNDERGROUND LOCATING SERVICE PRIOR TO COMMENCING WORK. SEE CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION. COORDINATE WITH OTHER SITE DISCIPLINES.
- SITE LIGHTING AND UTILITY EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS, PROPERTY LINES, AND UTILITY COMPANIES PRIOR TO ROUGH-IN.
- K. REFER TO POLE BASE DETAIL FOR SITE LIGHTING POLE BASE REQUIREMENTS.
- ROUTE CONDUITS IN COMMON TRENCH WHERE POSSIBLE REFER TO TRENCHING DETAIL.



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**IDAHO FALLS HEADQUARTERS** - AUXILIARY **BUILDING** 

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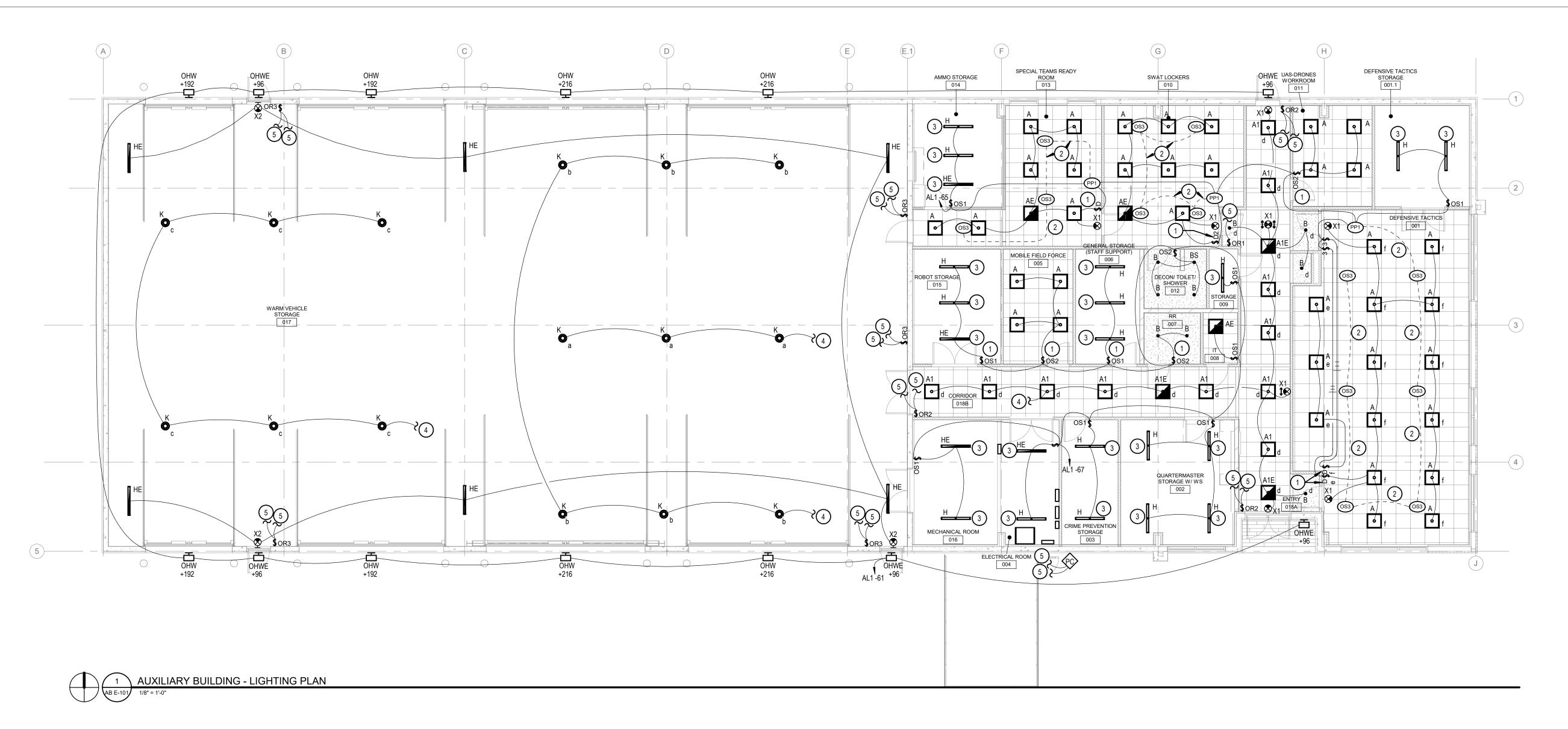
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SKB

MNB

**ELECTRICAL TITLE** SHEET



### **KEYED NOTES:**

# SYMBOL USED FOR CALLOUT

- 1. INSTALL 0-10V DIMMING CONDUCTORS FROM SWITCH TO ALL LIGHTS CONTROLLED BY THIS SWITCH IN ACCORDANCE WITH MANUFACTURE'S INSTALLATION INSTRUCTIONS. VERIFY INSTALLATION REQUIREMENTS WITH SUBMITTALS PRIOR TO INSTALLATION.
- 2. INSTALL 0-10V DIMMING CONDUCTORS FROM SWITCH TO ALL LIGHTS CONTROLLED BY THIS SWITCH IN ACCORDANCE WITH MANUFACTURE'S INSTALLATION INSTRUCTIONS. VERIFY INSTALLATION REQUIREMENTS WITH SUBMITTALS PRIOR TO INSTALLATION.
- CHAIN HANG LIGHT FIXTURE BELOW STRUCTURE, 9 FEET ABOVE FINISHED FLOOR. INSTALLATION INSTRUCTIONS.
- 4. LINE VOLTAGE AND 0-10V DIMMING CONDUCTORS TO LIGHTING CONTROL PANEL. SEE LIGHTING CONTROL PANEL DETAIL.
- CAT5E CABLE DAISY CHAINED BETWEEN NLIGHT ENABLED DEVICES AND LIGHTING CONTROL PANEL. SEE SHEET AB E-400 FOR LIGHTING CONTROL PANEL DETAIL.



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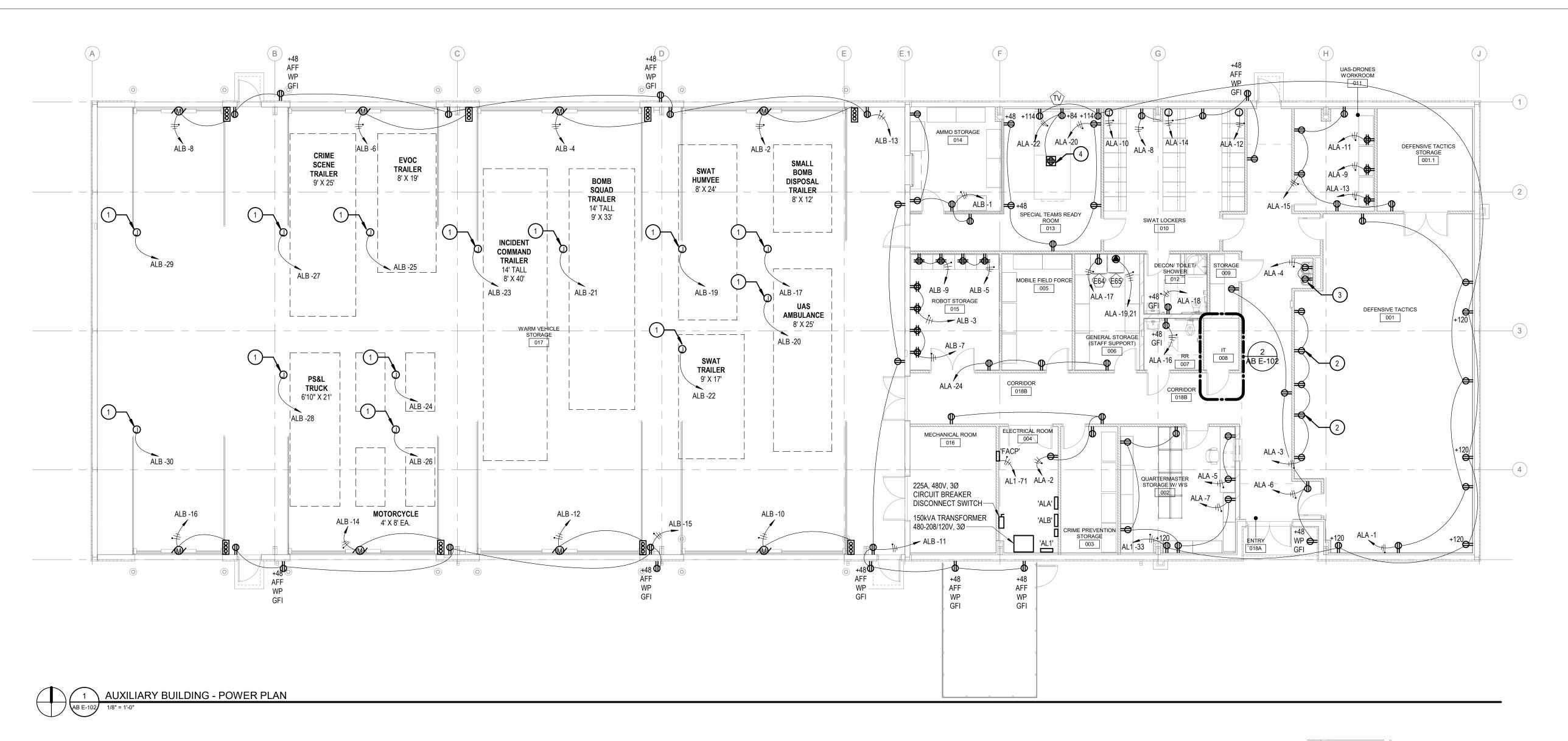
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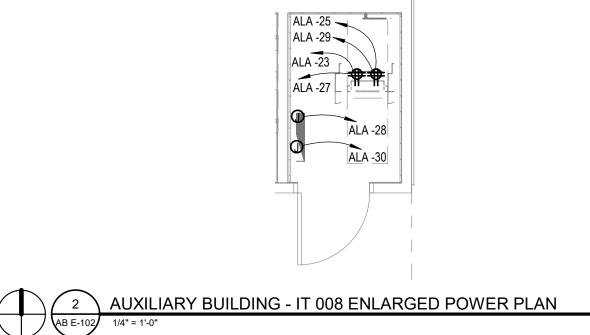
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Project North:

AUXILIARY BUILDING -LIGHTING PLAN

**IAB F-101** 





# **KEYED NOTES:**

# SYMBOL USED FOR CALLOUT

INSTALL POWER CORD DROP FOR VEHICLE CHARGING.
 SEE DETAIL ON DRAWING ABE-201. VERIFY FINAL
 LOCATION WITH OWNER AND ACTUAL VEHICLE POWER
 CONNECTION LOCATION.

- MOUNT RECEPTACLE AT 66" A.F.F. FOR TV. VERIFY MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN.
- INSTALL GROUND FAULT INTERRUPTING CIRCUIT BREAKER IN ELECTRICAL PANEL.
- MULTI-SERVICE FLOOR BOX. WITH DEVICE PLATES, CARPET FLANGE WITH INSERT AND ALL REQUIRED DEVICES FOR A COMPLETE INSTALLATION. RE:SPECIAL SYSTEMS PLANS.



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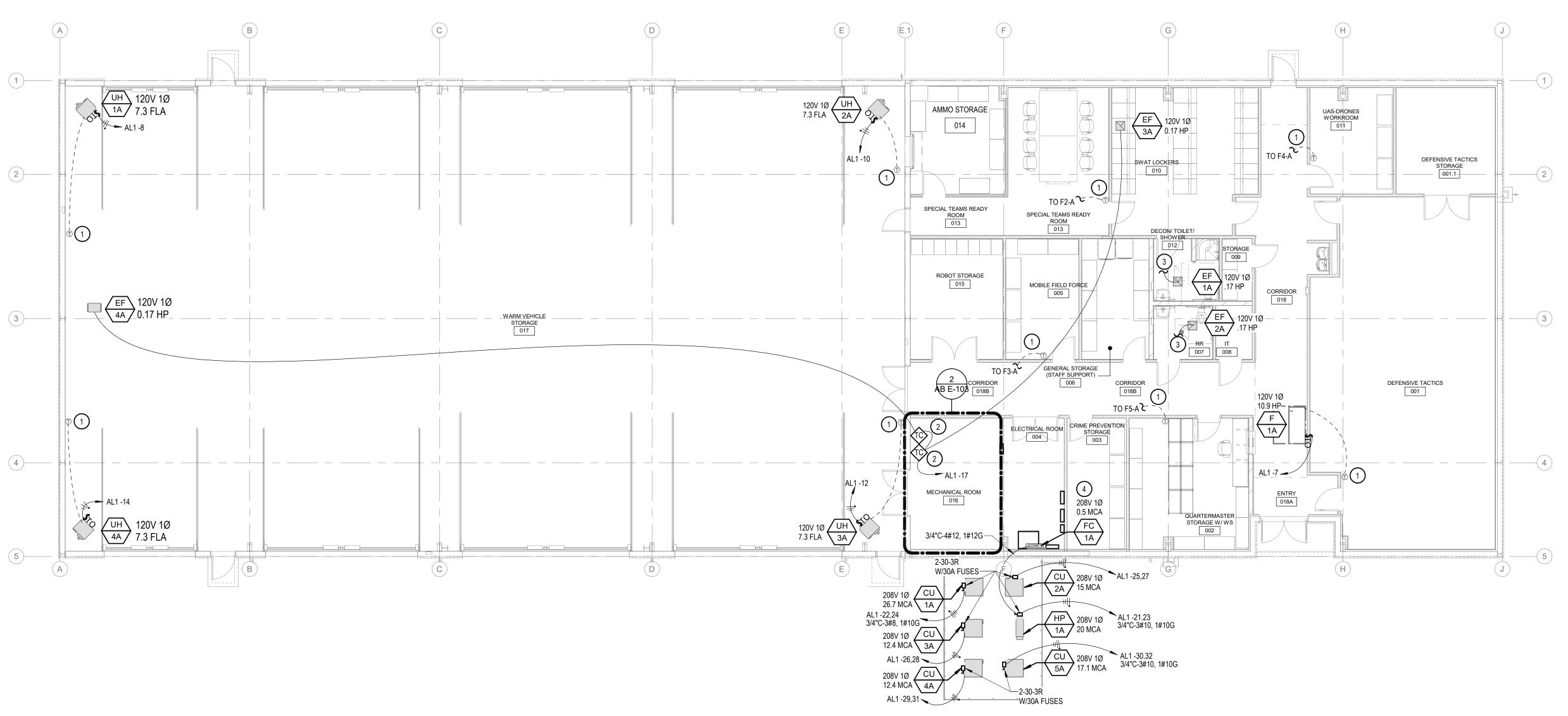
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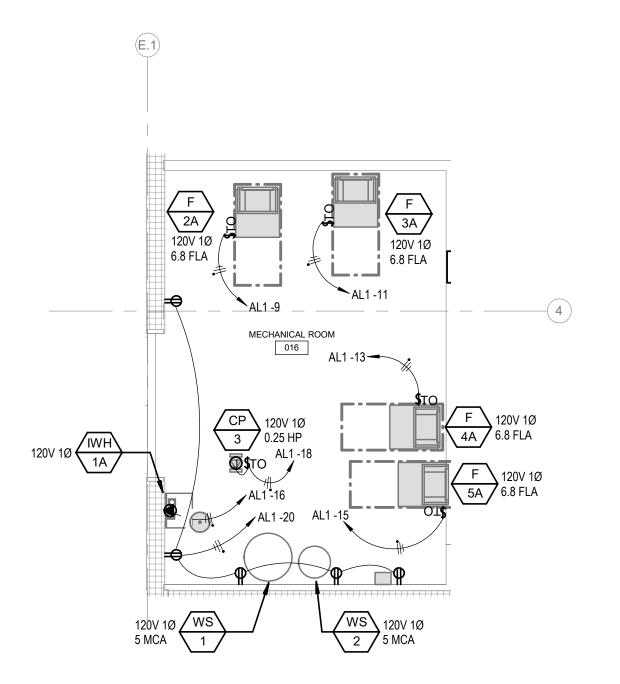


AUXILIARY BUILDING - POWER PLAN

**AB E-102** 



1 AUXILIARY BUILDING - MECHANICAL POWER PLAN



AUXILIARY BUILDING - MECHANICAL ROOM 016 ENLARGED PLAN

AB E-103 1/4" = 1'-0"

# **KEYED NOTES:**

# SYMBOL USED FOR CALLOUT

- 1/2" CONDUIT TO CORRESPONDING MECHANICAL UNIT. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUIT.
- 2. TIMECLOCK FOR EXHAUST FANS PROVIDED BY MECHANICAL CONTRACTOR, CONNECTED BY ELECTRICAL CONTRACTOR. SEE AB M-602 AUX FAN SCHEDULE.
- 3. CONNECT TO LIGHTING CIRCUIT IN THIS ROOM.
- 4. POWERED BY OUTDOOR UNIT.



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AUXILIARY BUILDING -MECHANICAL POWER PLAN

AB E-103

# **Branch Panel: AL1**

Location: ELECTRICAL ROOM 004 Supply From: HSB - MAIN BUILDING Mounting: SURFACE Enclosure: NEMA 1

Volts: 120/208 Wye Phases: 3 Wires: 4

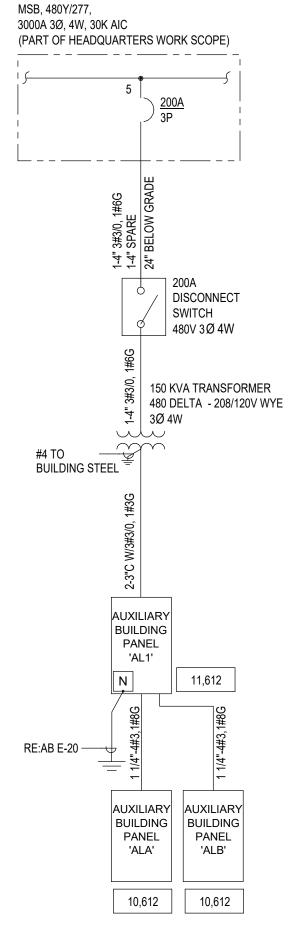
A.I.C. Rating: 22kA Mains Type: MCB Mains Rating: 400 A

СКТ	Circuit Description	Ckt Note s	Trip	Poles		4		В		C	Poles	Ckt Note Trip s	Circuit Description	скт
1	PANEL ALA		100 A	3	7604 VA	6240 VA					3	100 A	PANEL ALB	2
3							7484 VA	6060 VA						4
5									5100 VA	4700 VA				6
7	F-1A		15 A	1	1308 VA	876 VA					1	15 A	UNIT HEATER UH-1A	8
9	F-2A		20 A	1			816 VA	876 VA			1	15 A	UNIT HEATER UH-2A	10
11	F-3A		20 A	1					816 VA	876 VA	1	15 A	UNIT HEATER UH-3A	12
13	F-4A		20 A	1	816 VA	876 VA					1	15 A	UNIT HEATER UH-4A	14
15	F-5A		20 A	1			816 VA	1920 VA			1	20 A	IWH-1	16
17	EF3A, EF4A		15 A	1					254 VA	826 VA	1	20 A	CP-3	18
19	SPARE		20 A	1	0 VA	1740 VA					1	20 A	RECEPTS - MECHANICAL ROOM	20
21	HP-1A		30 A	2			2122 VA	2777 VA			2	40 A	CU-1A	22
23									2122 VA	2777 VA				24
25	CU-2A		20 A	2	1560 VA	1290 VA					2	20 A	CU-3A	26
27							1560 VA	1290 VA						28
29	CU-4A		20 A	2					1290 VA	1778 VA	2	25 A	CU-5A	30
31					1290 VA	1778 VA								32
33	RECEPTS - AUTOMATIC BLINDS		20 A	1			1260 VA	0 VA			1	20 A	SPARE	34
35	SPARE		20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE		20 A	1	0 VA	0 VA					1	20 A	SPARE	38
39	SPARE		20 A	1			0 VA	0 VA			1	20 A	SPARE	40
41	SPARE		20 A	1					0 VA	0 VA	1	20 A	SPARE	42
43	SPARE		20 A	1	0 VA	0 VA					1	20 A	SPARE	44
45	SPARE		20 A	1			0 VA	0 VA			1	20 A	SPARE	46
47	SPARE		20 A	1					0 VA	0 VA	1	20 A	SPARE	48
49	SPARE		20 A	1	0 VA	0 VA					1	20 A	SPARE	50
51	SPARE		20 A	1			0 VA	0 VA			1	20 A	SPARE	52
53	SPARE		20 A	1					0 VA	0 VA	1	20 A	SPARE	54
55	LTG - WARM VEHICLE 17 WEST		20 A	1	600 VA	0 VA					1	20 A	SPARE	56
57	LTG - WARM VEHICLE 17 EAST		20 A	1			600 VA	0 VA			1	20 A	SPARE	58
59	LTG - WARM VEHICLE 17 E. CENT		20 A	1					300 VA	0 VA	1	20 A	SPARE	60
61	LTG - EXTERIOR		20 A	1	910 VA	0 VA					1	20 A	SPARE	62
63	SPARE		20 A	1			0 VA	0 VA			1	20 A	SPARE	64
65	LTG - RMS 1,1.1,10,11,13,14		20 A	1					1515 VA	0 VA	1	20 A	SPARE	66
67	LTG - RMS 2-9,12,15,16		20 A	1	1212 VA	0 VA					1	20 A	SPARE	68
69	LTG - CORRS		20 A	1			360 VA	0 VA			1	20 A	SPARE	70
71	FIRE ALARM CONTROL PANEL		20 A	1					180 VA	0 VA	1	20 A	SPARE	72
			Total	Load:	2810	00 VA	2794	O VA	2253	3 VA				
			Total A	Amps:	24	1 A	24	0 A	18	8 A				

Legend:

# **GENERAL NOTES:**

- SERVICE, PANEL AND EQUIPMENT FEEDERS INDICATED ON THE ONE-LINE HAVE BEEN SIZED BASED ON COPPER. THE CONTRACTOR MAY USE COMPRESSED ALUMINUM CONDUCTORS FOR THESE FEEDERS PROVIDING THE CONDUIT, CONDUCTOR SIZES AND AIC CALCULATIONS ARE ADJUSTED AS REQUIRED TO MEET ALL NATIONAL ELECTRICAL CODE REQUIREMENTS.
- B. FURNISH AND INSTALL ENGRAVED LABEL ON THE FRONT OF THE MAIN SERVICE EQUIPMENT NOTING THE AVAILABLE FAULT CURRENT VALUE SHOWN.



ONE-LINE DIAGRAM AUXILIARY BUILDING

# **Branch Panel: ALA**

Location: ELECTRICAL ROOM 004 Supply From: AL1 Mounting: FLUSH Enclosure: NEMA 1

Volts: 120/208 Wye Phases: 3 Wires: 4

A.I.C. Rating: 22kA Mains Type: MCB Mains Rating: 100 A

1. PROVIDE AND INSTALL GROUND FAULT INTERRUPTER BREAKER.

		Ckt Note											Ckt Note				
CKT	Circuit Description	S	Trip	Poles		A	I	В	C	C P		C		Trip	S	Circuit Description	CKT
1	RECEPTS - DEFENCE 1 WALLS		20 A	1	900 VA	720 VA					1	20 A		RECEPTS - STORAGE 3,5,6, ELEC	. 2		
3	RECEPTS - DEFENCE 1 TV WALL		20 A	1			1540 VA	360 VA			1	20 A	1	RECEPTS - DRINKING FOUNTAIN	4		
5	RECEPTS - Q.M. 2 DESK		20 A	1					680 VA	720 VA	1	20 A		RECEPTS - ENTRY, STOR. 9, RR 7	6		
7	RECEPTS - Q.M. 2 STORAGE		20 A	1	900 VA	720 VA					1	20 A		RECEPTS - SWAT LOCKERS 10	8		
9	RECEPT - WORKROOM 11 SHELF		20 A	1			360 VA	1260 VA			1	20 A		JBOX - SWAT LOCKERS 10	10		
11	RECEPT - WORKROOM 11 SHELF		20 A	1					360 VA	1260 VA	1	20 A		JBOX - SWAT LOCKERS 10	12		
13	RECEPT - WORKROOM 11 SHELF		20 A	1	360 VA	1260 VA					1	20 A		JBOX - SWAT LOCKERS 10	14		
15	RECEPTS - WORKROOM 11		20 A	1			900 VA	180 VA			1	20 A		RECEPT - RR 7	16		
17	RECEPT - STOR 6 WASHER	1	20 A	1					500 VA	180 VA	1	20 A		RECEPT - DECON 12	18		
19	RECEPT - STOR 6 DRYER	1	50 A	2	1664 VA	900 VA					1	20 A		RECEPTS - READY ROOM 13	20		
21							1664 VA	540 VA			1	20 A		RECEPTS - READY ROOM TV 13	22		
23	RECEPT - IT 8 DATA RACK		20 A	1					180 VA	540 VA	1	20 A		RECEPTS - STOR. 5, 6, 15	24		
25	RECEPT - IT 8 DATA RACK		20 A	1	180 VA	0 VA					1	20 A		SPARE	26		
27	RECEPT - IT 8 DATA RACK		20 A	1			180 VA	500 VA			1	20 A		ACCESS CONTROL SYSTEM IT 8	28		
29	RECEPT - IT 8 DATA RACK		20 A	1					180 VA	500 VA	1	20 A		DOOR HARDWARE POWER IT 8	30		
			Tota	Load:	760	4 VA	748	4 VA	5100	VA							
	ָד			Amps:	66	6 A	65	5 A	43	Α	-						

# **Branch Panel: ALB**

Location: ELECTRICAL ROOM 004 Supply From: AL1 Mounting: FLUSH Enclosure: NEMA 1

Volts: 120/208 Wye Phases: 3

Wires: 4

A.I.C. Rating: 22kA

Mains Type: MCB Mains Rating: 100 A

		Ckt Note											Ckt Note		
CKT	Circuit Description	S	Trip	Poles		A	I	В	C F		Poles	Trip	S	Circuit Description	CKT
1	RECEPTS - STORAGE 14		20 A	1	720 VA	1000 VA					1	30 A		DOOR OPERATOR - STORAGE 17 N	2
3	RECEPTS - STORAGE 15		20 A	1			720 VA	1000 VA			1	30 A		DOOR OPERATOR - STORAGE 17 N	4
5	RECEPTS - STORAGE 15		20 A	1					720 VA	1000 VA	1	30 A		DOOR OPERATOR - STORAGE 17 N	6
7	RECEPTS - STORAGE 15		20 A	1	720 VA	1000 VA					1	30 A		DOOR OPERATOR - STORAGE 17 N	8
9	RECEPTS - STORAGE 15		20 A	1			720 VA	1000 VA			1	30 A		DOOR OPERATOR - STORAGE 17 S	10
11	RECEPTS - MECH 16, STOR 17		20 A	1					1080 VA	1000 VA	1	30 A		DOOR OPERATOR - STORAGE 17 S	12
13	RECEPTS - STORAGE 17 N		20 A	1	1080 VA	1000 VA					1	30 A		DOOR OPERATOR - STORAGE 17 S	14
15	RECEPTS - STORAGE 17 S		20 A	1			900 VA	1000 VA			1	30 A		DOOR OPERATOR - STORAGE 17 S	16
17	CORD DROP - STOR. 17 N		20 A	1					180 VA	0 VA	1	20 A		SPARE	18
19	CORD DROP - STOR. 17 N		20 A	1	180 VA	180 VA					1	20 A		CORD DROP - STOR. 17 S	20
21	CORD DROP - STOR. 17 N		20 A	1			180 VA	180 VA			1	20 A		CORD DROP - STOR. 17 S	22
23	CORD DROP - STOR. 17 N		20 A	1					180 VA	180 VA	1	20 A		CORD DROP - STOR. 17 S	24
25	CORD DROP - STOR. 17 N		20 A	1	180 VA	180 VA					1	20 A		CORD DROP - STOR. 17 S	26
27	CORD DROP - STOR. 17 N		20 A	1			180 VA	180 VA			1	20 A		CORD DROP - STOR. 17 S	28
29	CORD DROP - STOR. 17 N SPARE		20 A	1					180 VA	180 VA	1	20 A		CORD DROP - STOR. 17 S SPARE	30
			Total	Load:	624	0 VA	606	0 VA	4700	AV C					
			Total	Amps:	54	1 A	52	2 A	39	) A	-				

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**IDAHO FALLS POLICE** HEADQUARTERS - AUXILIARY **BUILDING** 

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Project No. 1047-20A

Revisions:

**BID ISSUE** 

Issue Date: 2022.02.10

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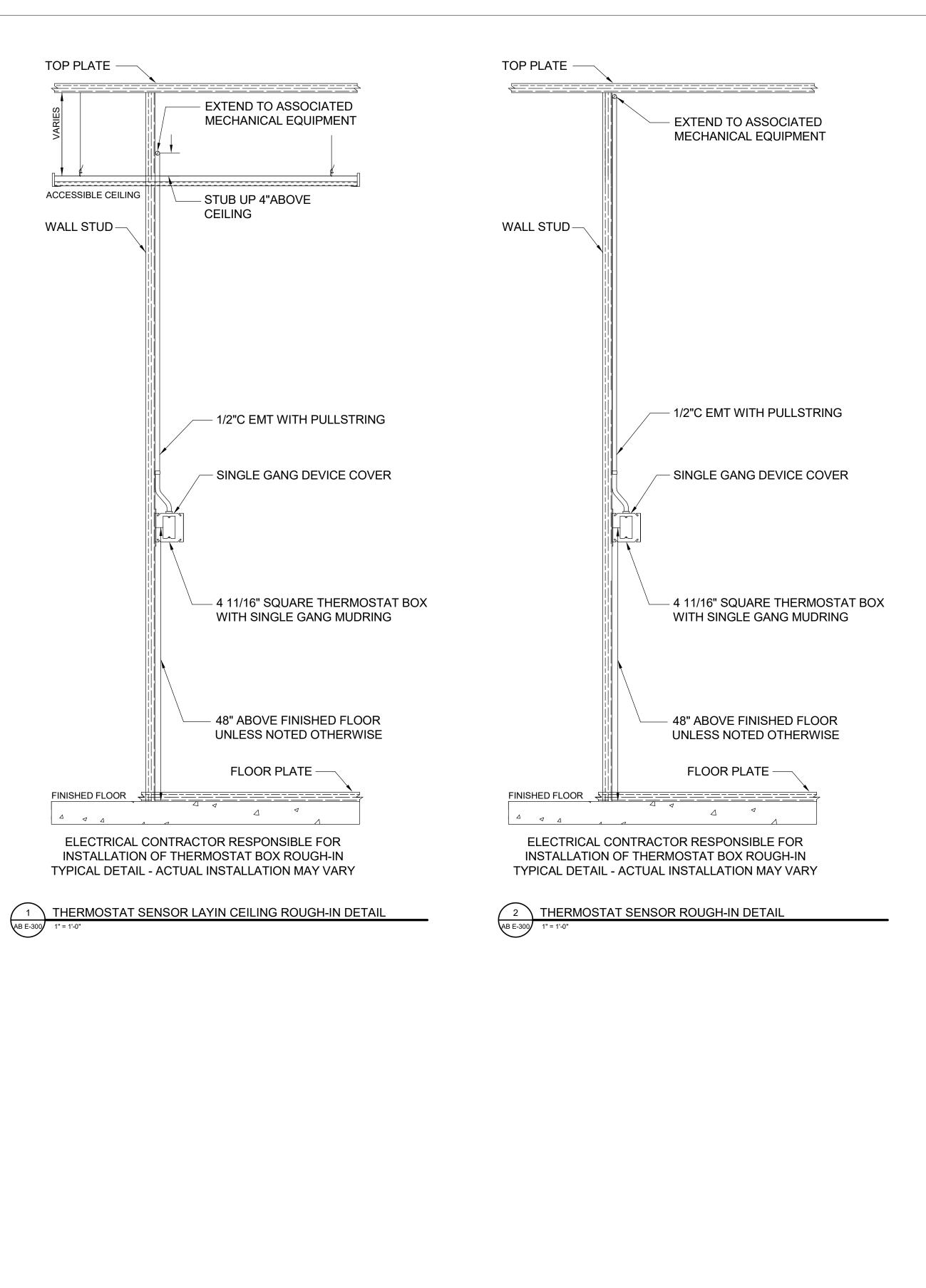
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ONE-LINE DIAGRAM, PANEL SCHEDULES



50

Architects Design Group

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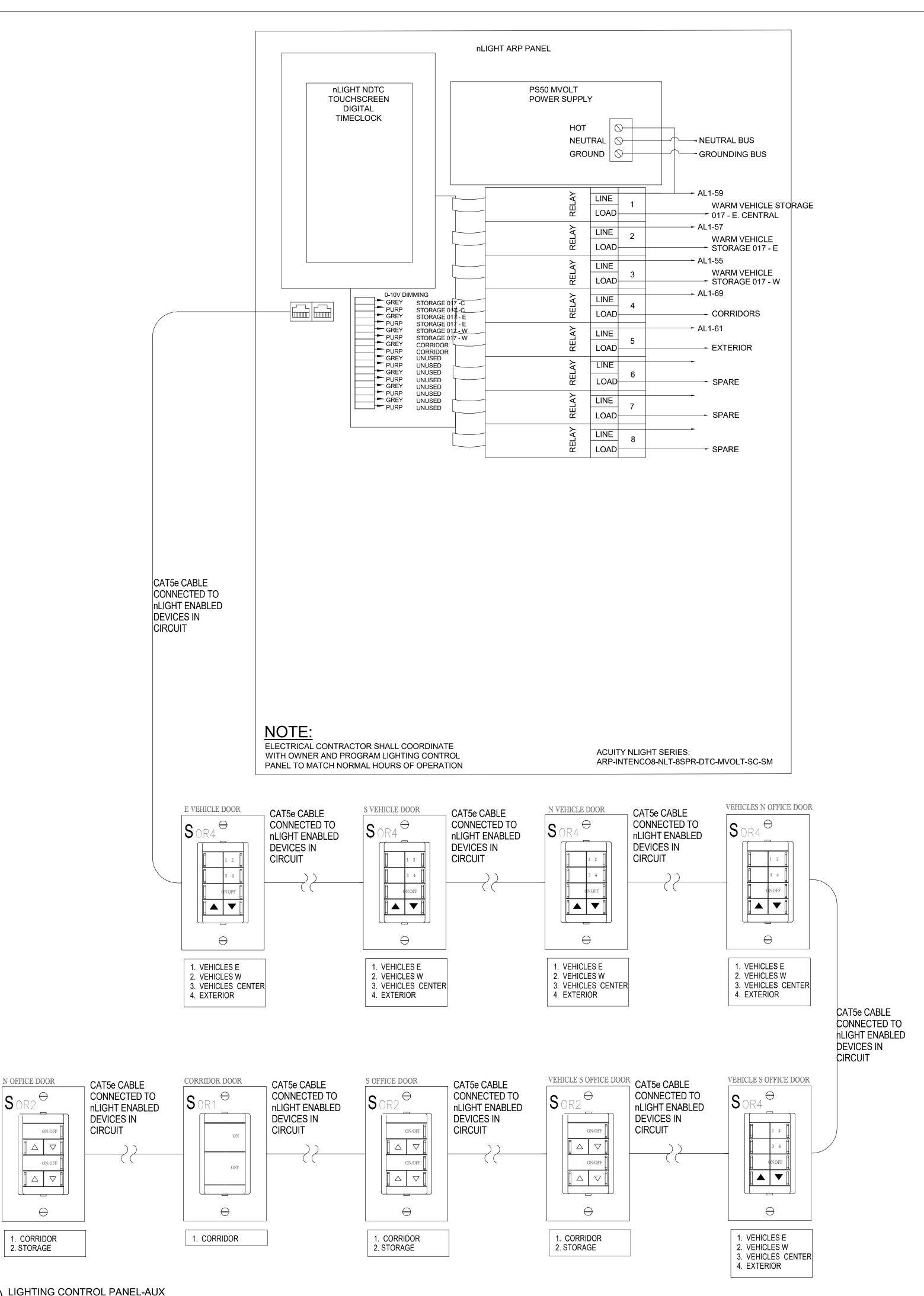
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ELECTRICAL DETAILS

**AB E-300** 



		LIGHTIN	G FIXTURE	SCHEDUL	E (21-196-AUX)	
TYPE	DESCRIPTION	MTG.	LAMPS	WATTS	MANUFACTURER	CATALOG NUMBER
	2x2 LED EDGELIT FLAT PANEL		LED		HE WILLIAMS	LP-22-L40-840-DIM-UNV
^	4,155 LUMENS, 80 CRI, DIMMING DRIVER, UNIVERSAL VOLTAGE	RECESSED	4000K	40	LITHONIA	EPANL-2X2-4000LM-80CRI-40K-MIN10-ZT-MVOLT
Α					COLUMBIA	CBT22-LSCS
					LITETRONICS	PT24018
	2x2 LED EDGELIT FLAT PANEL		LED		HE WILLIAMS	LP-22-L40-840-DIM-UNV-EM/10WRM
	4,155 LUMENS, 80 CRI, DIMMING DRIVER, UNIVERSAL VOLTAGE	RECESSED	4000K	40	LITHONIA	EPANL-2X2-4000LM-80CRI-40K-MIN10-ZT-MVOLT-E10WCP
ΑE	EMERGENCY LIGHT				COLUMBIA	CBT22-LSCS-ELL10
					LITETRONICS	PT24018
	2x2 LED EDGELIT FLAT PANEL		LED		HE WILLIAMS	LP-22-L20-840-DIM-UNV
	2,135 LUMENS, 80 CRI, DIMMING DRIVER, UNIVERSAL VOLTAGE	RECESSED	4000K	20	LITHONIA	EPANL-2X2-2000LM-80CRI-40K-MIN10-ZT-MVOLT
A1	2,133 Ediviend, 60 Citi, Diviviling Ditiver, Oniverdae Voltage	NEOLSSED	40001	20	COLUMBIA	CBT22-LSCS
					LITETRONICS	PT240
	O O LED EDOELITELAT DANIEL		1.55			
	2x2 LED EDGELIT FLAT PANEL	DE050050	LED		HE WILLIAMS	LP-22-L20-840-DIM-UNV-EM/10WRM
A1E	2,135 LUMENS, 80 CRI, DIMMING DRIVER, UNIVERSAL VOLTAGE	RECESSED	4000K	20	LITHONIA	EPANL-2X2-2000LM-80CRI-40K-MIN10-ZT-MVOLT-E10WCP
	EMERGENCY LIGHT				COLUMBIA	CBT22-LSCS-ELL10
					LITETRONICS	PT240-EB10
	4" DOWNLIGHT ROUND		LED		HE WILLIAMS	4DR-TL-L20-840-DIM-UNV-O-W-OF-WH-MWT
В	1,863 LUMENS, 80 CRI, DIMMING DRIVER, UNIVERSAL VOLTAGE	RECESSED	4000K	20	GOTHAM	EVO4-40/20-WR-WD-MVOLT-GZ10
	OPEN, WIDE, WHITE REFLECTOR AND TEXTURED TRIM				PRESCOLITE	LTR-4RD-H-ML20L-DM1 w/LTR-4RD-T-ML40K8WD-SS
					HALO	HC420D010/HM412840/41MDW
	4" DOWNLIGHT ROUND		LED		HE WILLIAMS	4DR-TL-L20-840-DIM-UNV-O-W-OF-WH-MWT
DE	1,863 LUMENS, 80 CRI, DIMMING DRIVER, UNIVERSAL VOLTAGE	RECESSED	4000K	20	GOTHAM	EVO4-40/20-WR-WD-MVOLT-GZ10
BE	OPEN, WIDE, WHITE REFLECTOR AND TEXTURED TRIM				PRESCOLITE	LTR-4RD-H-ML20L-DM1 w/LTR-4RD-T-ML40K8WD-SS
					HALO	HC420D010/HM412840/41MDW
	4" DOWNLIGHT ROUND, SHOWER LIGHT - IP65		LED		HE WILLIAMS	4DR-TL-L20-840-DIM-UNV-S-W-OF-WH-IP
	1,863 LUMENS, 80 CRI, DIMMING DRIVER, UNIVERSAL VOLTAGE	RECESSED	4000K	20	GOTHAM	EVO4SH-40/20-DFF-SOL-MVOLT-EZ10
BS	OPEN, WIDE, WHITE REFLECTOR AND IP TRIM	T T T T T T T T T T T T T T T T T T T	100011		PRESCOLITE	LTR-4RD-H-ML20L-DM1 w/LTR-4RD-T-SHML40K8-WT
	OF EN, WIDE, WHITE REFERENCE LEGISTRAND II TRIM				HALO	HC420D010/HM412840/41PSMDW
	40 INCH SPUN ALUMINUM LED RLM		LED		SCOTT ARCH	\$2696-L72-40K-BA-CT-UNV
	6,120 LUMENS, UNIVERSAL VOLTAGE,	SUSPENDED	4000K	72	ANP LIGHTING	OSAB42-M037LDD-W-40K-SSC-DCC-BLC-5W-78-71
Ε	BRUSHED ALUMINUM EXTERIOR AND COPPER INSERT	SUSFLINDLD	40001	12	ANF LIGHTING	OSAB42-W037EDD-W-40K-SSC-DCC-BEC-SW-70-71
	BRUSHED ALUMINUM EXTERIOR AND COPPER INSERT					
	4 FOOT LED OTDID WITH DOUNDED LENG		150		115 14/11 1 14 140	70D 4   70 040 DDV   INV
	4 FOOT LED STRIP WITH ROUNDED LENS	OLIDEA OF	LED	50	HE WILLIAMS	76R-4-L72-840-DRV-UNV
Н	UNIVERSAL VOLTAGE	SURFACE	4000K	50	LITHONIA	CLX-L48-7000LM-SEF-RDLMVOLT-GZ10-40K-80CRI-WH
					COLUMBIA	MPS4-40VL-CW-EDU
					METALUX	4SNLED-LD5-74HL-LN-UNV-L840-CD1-U
	LED LOW BAY		LED		SPECGRADE	HBF-70-40K-120-V01-WT-SM-VDIM-FL-80CRI
K	0-10V DIMMING,	SUSPENDED	4000K	100	LITETRONICS	HBC115W40DLP
					COLUMBIA	CRB-40LX-EDU
	UNIVERSAL VOLTAGE					
	LED THERMOPLASTIC EXIT		LED		BEGHELLI	VA4RSA
X1	UNIVERSAL VOLTAGE	UNIVERSAL	RED	5	LITHONIA	EXRG-M6
ΛI					COMPASS	CER
					MULE	MXBRU
	TRAPEZIODAL FULL CUT OFF LED WALL SCONCE		LED		GARDCO	101L-32L-1000-NW-G2-3-UNV-X
OHW		WALL	4000K	70	LITHONIA	WST-LED-P3-40K-VF-MVOLT-DBLXD
					HUBBELL	RWL2-160L-45-4K7-3-UNV-BLT
					MCGRAW-EDISON	
	TRAPEZIODAL FULL CUT OFF LED WALL SCONCE		LED		GARDCO	101L-32L-1000-NW-G2-3-UNV-X-EM
		14/411		70		
OHWE	WIT HEMERGENCY BATTERY PACK	WALL	4000K	70	LITHONIA	WST-LED-P3-40K-VF-MVOLT-DBLXD-EM
					HUBBELL	RWL2-160L-45-4K7-3-UNV-BLT-EM
			l	Ī	INICGRAW-EDISON	IST-SA1E-740-U-T3-BK-EM

# SWITCH AND OCCUPANCY SENSOR SCHEDULE

- Sos1 OCCUPANCY SENSOR WALL MOUNT, SINGLE TECHNOLOGY, LINE VOLTAGE, SINGLE POLE, WHITE SENSOR SWITCH WSXA-COLOR BY ARCHITECT
- Sos2 OCCUPANCY SENSOR WALL MOUNT, DUAL TECHNOLOGY, LINE VOLTAGE, SINGLE POLE, DIMMING, WHITE SENSOR SWITCH WSXA-MWO-PDT-D-COLOR BY ARCHITECT
- (0S3) OCCUPANCY SENSOR CEILING MOUNT, DUAL TECHNOLOGY, LOW VOLTAGE, SMALL MOTION SENSOR SWITCH CM-PDT-9
- (PP1) POWER PACK 120 VOLT, OUTPUT CURRENT: 150mA @ 15 VDC SENSOR SWITCH PP20
- SD DIMMING SWITCH WALL MOUNT, 120/277V INPUT, 120/277V OUTPUT, LED, ON/OFF/DIMMER SWITCH SYNERGY ISD-BC-120/277-COLOR BY ARCHITECT

OR APPROVED EQUAL FROM WATT STOPPER, GREENGATE, LUTRON OR HUBBELL PRIOR APPROVAL SUBMITTALS REQUIRED

# NETWORKED SWITCH AND OCCUPANCY SENSOR LEGEND

- SOR1 DIMMING SWITCH WALL MOUNT, ON/OFF, DIM UP/DOWN, SINGLE CHANNELS, COLOR BY ARCHITECT nLIGHT nPOD-DX-X
- SOR2 DIMMING SWITCH WALL MOUNT, ON/OFF, DIM UP/DOWN, SINGLE CHANNELS, COLOR BY ARCHITECT nLIGHT nPOD-2P-DX-X
- SOR3 DIMMING SWITCH WALL MOUNT, ON/OFF, DIM UP/DOWN, SINGLE CHANNELS, COLOR BY ARCHITECT nLIGHT nPOD-4P-DX-X
- EXTERIOR NLIGHT ENABLED PHOTOCELL KIT JUNCTION BOX MOUNTED, ON/OFF 120V REQUIRED FOR INCLUDED POWER SUPPLY nLIGHT nIO-PC-KIT

OR APPROVED EQUAL FROM WATT STOPPER, ILUMIN PRIOR APPROVAL SUBMITTALS REQUIRED

ALL PROGRAMMABLE LIGHTING COMPONENTS SEE SPECIFICATION SECTION 260930

SALES REPRESENTATIVE AND ELECTRICAL CONTRACTOR SHALL INCLUDE COST IN LIGHTING AND CONTROLS PACKAGE FOR REGISTERED DESIGN PROFESSIONAL TO PROGRAM AND COMMISSION



Architects Design Group

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**IDAHO FALLS HEADQUARTERS** - AUXILIARY **BUILDING** 

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Project No. 1047-20A

Revisions:

**BID ISSUE** 

Issue Date: 2022.02.10

Drawn by:

Checked by:

Project North:

LIGHTING DETAILS

SKB

MNB

## DOMESTIC WATER

## ACCESS

PROVIDE ACCESS PANELS FOR ALL VALVES LOCATED IN WALLS OR ABOVE HARD LID CEILINGS. PROVIDE A RATED ACCESS PANEL WHERE LOCATED IN OR ABOVE A FIRE RATED ASSEMBLY. COORDINATE FINAL LOCATION WITH GENERAL CONTRACTOR AND ARCHITECT. COORDINATE ACCESS PANEL COLOR WITH ARCHITECT.

# INSTALLATION

CONTRACTOR TO PROVIDE FLOW TEST FOR DOMESTIC WATER SUPPLY ON SITE AT BEGINNING OF CONSTRUCTION TO ENGINEER TO CONFIRM AVAILABLE PRESSURE, PRIOR TO PURCHASE AND INSTALLATION OF BOOSTER PUMP/PRV.

PROVIDE AND INSTALL WATER METER PER LOCAL JURISDICTION REQUIREMENTS. COORDINATE LOCATION WITH CIVIL. INSTALL WATER METER READING DEVICE PER LOCAL JURISDICTION REQUIREMENTS.

PROVIDE AND INSTALL DOUBLE CHECK BACKFLOW PREVENTER THAT IS APPROVED BY LOCAL JURISDICTION ON DOMESTIC WATER SERVICE. COORDINATE LOCATION WITH CIVIL.

PROVIDE WATER HAMMER ARRESTOR IN EACH BRANCH LINE SERVING FIXTURES AND EQUIPMENT WITH AUTOMATIC VALVE OPERATORS. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PROVIDE ISOLATION VALVES FOR ALL BRANCH LINES SERVING THREE OR MORE FIXTURES. PROVIDE BALANCING VALVES FOR EACH DOMESTIC HOT WATER RETURN PIPING OF TWO BRANCHES OR MORE.

ALL DOMESTIC WATER PIPING ROUTED BELOW SLAB TO HAVE MINIMAL TO NO JOINTS OR FITTINGS BELOW SLAB.

ROUTE WATER PIPING IN HEATED AREAS ONLY. DO NOT ROUTE PIPING IN NON-INSULATED ATTIC, CEILING AND WALL SPACES.

PRESSURE TEST ALL DOMESTIC WATER PIPING PER PLUMBING CODE

DISINFECT DOMESTIC WATER PIPING PER PLUMBING CODE REQUIREMENTS.

# INSULATION

INSULATE ALL DOMESTIC HOT WATER PIPING AND RECIRCULATION PIPING AND DOMESTIC COLD WATER PIPING PER INSULATION TABLE. PROVIDE ALUMINUM JACKET ON ALL INSULATION LOCATED OUTDOORS.

# SANITARY SEWER

## INSTALLATION

WASTE PIPING SMALLER THAN 4" IS TO BE SLOPED AT 1/4" PER FOOT. ALL WASTE PIPING 4" AND LARGER MAY BE INSTALLED AT 1/8" SLOPE PER FOOT UPON RECEIVING WRITTEN APPROVAL BY LOCAL JURISDICTION. VERIFY INVERT BEFORE INSTALLATION.

DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8' OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING SUDS. STACKS CONTAINING SUDS ARE IDENTIFIED ON THE RISER DIAGRAMS.

PROVIDE CLEANOUTS ON INTERIOR SANITARY AND STORM PIPING ACCORDING TO LOCAL JURISDICTION AND PLUMBING CODE REQUIREMENTS.

PROVIDE GRADE CLEANOUT WHERE BUILDING SEWER CONNECTS TO SEWAGE

PROVIDE VENT FOR EVERY TRAP AND TRAPPED FIXTURE. ALL VTR'S TO BE 2" MINIMUM AND TERMINATE MINIMUM 10" ABOVE ROOF AND MINIMUM 24" FROM ROOF EDGE OR PARAPET, AND 25' FROM OUTSIDE AIR INTAKE INTO BUILDING.

INSTALL PRESSURE ACTIVATED TRAP PRIMERS ON ALL FLOOR DRAINS AND FLOOR SINKS UNLESS NOTED OTHERWISE. INSTALL TRAP PRIMERS COMPLYING WITH ALL MANUFACTURER REQUIREMENTS. PROVIDE ACCESS PANEL FOR ALL TRAP PRIMERS AND COORDINATE LOCATIONS WITH GENERAL CONTRACTOR/ ARCHITECT. TRAP PRIMERS ARE INTENDED TO BE INSTALLED ABOVE ACCESSIBLE CEILINGS. IN CLOSETS, OR BELOW COUNTERS. ALL TRAP PRIMERS TO BE INSTALLED ON BRANCH PIPING SERVING REGULARLY USED FIXTURES TO ENSURE CORRECT OPERATION. TRAP PRIMER TO OPERATE BASED ON A 5 PSI OR LESS PRESSURE DROP. PROVIDE MIFAB M-500 TRAP PRIMER OR APPROVED EQUAL.

PRESSURE TEST ALL SANITARY SEWER AND VENT AND STORM PIPING TO PLUMBING CODE REQUIREMENTS.

# INSULATION

INSULATE ALL ROOF DRAIN PIPING AND OVERFLOW DRAIN AND ROOF DRAIN BOWLS PER INSULATION TABLE. PROVIDE ALUMINUM JACKET ON ALL INSULATION LOCATED OUTDOORS.

INSULATE ALL P-TRAPS AND DRAIN BODIES THAT RECEIVE DISCHARGE FROM AN ICE MACHINE.

# **MATERIALS**

ALL SANITARY WASTE AND VENT AND STORM DRAINAGE PIPING LOCATED IN A RETURN AIR PLENUM TO BE CAST IRON SV NO HUB SYSTEM.

LOCATION	PIPE TYPE
DOMESTIC WATER	
BELOW GRADE	ASTM B 88 TYPE K SOLDERED COPPER
ABOVE GRADE (WHERE NOTED BY CU)	ASTM B 88 TYPE L SOLDERED COPPER
ABOVE GRADE (≤ 2")	ASTM E 84 PEX-A
MA OTE	
WASTE BELOW GRADE	ASTM D 2665 PVC SCHEDULE 40, SOCKET FITTINGS DWV
ABOVE GRADE	ASTM A 888 CAST IRON, NO HUB SYSTEM
BELOW GRADE ABOVE GRADE	ASTM D 2665 PVC SCHEDULE 40, SOCKET FITTINGS DWV ASTM A 888 CAST IRON, NO HUB SYSTEM
	· ·
VFNT	
ALL	ASTM A 888 CAST IRON, NO HUB SYSTEM
GAS	
BELOW GRADE	ASTM D 2513 POLYETHYLENE
ABOVE GRADE	SCHEDULE 40 STEEL TO COMPLY WITH EITHER ASME B36.10 ASTM A 53, OR ASTM A 106
CONDENSATE	
ALL	ASTM B 88 TYPE L COPPER

# **EQUIPMENT AND FIXTURES**

## CONDENSATE

PROVIDE CONDENSATE DRAINS PIPED FULL SIZE TO FLOOR DRAIN/FLOOR SINK FOR ALL AIR CONDITIONING EQUIPMENT AND HIGH EFFICIENCY FURNACES AND BOILERS. SLOPE ALL CONDENSATE AT MIN 1/8" PER FT. ALL CONDENSATE PIPING TO BE 3/4" DIA. UNLESS NOTED OTHERWISE. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR CONDENSATE TRAPPING REQUIREMENTS.

## **ELECTRICAL REQUIREMENTS**

COORDINATE ALL ELECTRICAL AND CONTROL REQUIREMENTS WITH ELECTRICIAN.

# **EQUIPMENT VENT**

PROVIDE ADEQUATE COMBUSTION, VENTILATION, AND DILUTION AIR FOR ALL GAS FIRED EQUIPMENT PER INTERNATIONAL FUEL GAS CODE AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

## **GENERAL REQUIREMENTS**

ALL MANUFACTURER SUBSTITUTIONS MUST BE SUBMITTED THROUGH ARCHITECT AND APPROVED THROUGH AN ADDENDUM. PRIOR APPROVALS MUST BE SUBMITTED 10 DAYS PRIOR TO BID DATE.

PROVIDE SUBMITTALS ON ITEMS LISTED IN SCHEDULES TO ENGINEER FOR REVIEW PRIOR TO ORDER, PURCHASE, OR INSTALLATION. PROVIDE ALL HVAC AND PLUMBING CONSTRUCTION COSTS FOR ENGINEER DATA BASE AS PART OF SUBMITTALS.

CONTRACTOR MUST COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL EQUIPMENT WITH ELECTRICAL CONTRACTOR AFTER SUBMITTALS ARE REVIEWED.

PROVIDE OPERATIONS AND MAINTENANCE MANUAL INCLUDING ALL PLUMBING EQUIPMENT.

REFER TO ARCHITECTURAL FOR FINAL FIXTURE AND FIXTURE ACCESSORY LOCATIONS.

# INSTALLATION

INSTALLATION.

REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.

PROVIDE BALANCE VALVES TO ALLOW COMPLETE BALANCE OF PLUMBING SYSTEMS AND ISOLATION VALVES FOR MAINTENANCE ON EACH PIECE OF EQUIPMENT.

INSTALL ALL EQUIPMENT AND FIXTURES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ONE YEAR PARTS AND LABOR WARRANTY ON

T&P RELIEF VALVE TO INDIRECT DRAIN AT FLOOR DRAIN.

SET ALL FIXTURE TEMPERATURE LIMIT STOPS TO 110°F UNLESS INDICATED OTHERWISE.

INSULATE HANDICAP LAVATORY TAIL PIECE, P-TRAP, TRAP ARM, HOT AND COLD WATER SUPPLY WITH HANDI LAV-GUARD.

LOCATION OF IGNITION SOURCES FOR GAS FIRED EQUIPMENT LOCATED IN GARAGES TO BE 18" MINIMUM AFF.

GAS FIRED ROOFTOP UNITS TO BE TESTED IN ACCORDANCE WITH ANSIZ21.40.1 OR ANSIZ21.40.2.

IN ADDITION TO THE BUILDING BACKFLOW PREVENTER, PROVIDE AND INSTALL BACKFLOW PREVENTERS FOR THE FOLLOWING: IRRIGATION SYSTEMS CONNECTED TO THE DOMESTIC WATER PIPING, ICE MAKERS, COFFEE MAKERS, JUICE DISPENSERS, BEVERAGE DISPENSERS, LINE CHUTE CLEANING SYSTEM, TRASH CHUTE CLEANING SYSTEM, WATER LINE SERVING THE POOL EQUIPMENT ROOM, AND DCW/DHW SUPPLY LINES SERVING ALL CLOTHES WASHERS. BACKFLOW PREVENTERS TO MEET LOCAL JURISDICTION REQUIREMENTS

ALL WATER HEATERS WITH AN INPUT ABOVE 199 MBH OR STORAGE CAPACITY GREATER THAN 119 GALLONS MUST COMPLY WITH LOCAL BOILER CODE AND ASME. WATER HEATERS MUST BE ASME CERTIFIED. INITIAL AND PERIODIC INSPECTIONS AND CERTIFICATIONS MUST BE ARRANGED. PROVIDE CARBON MONOXIDE DETECTOR IN WATER HEATER ROOM. PROVIDE EMERGENCY PUSH BUTTON SHUT OFF THAT CONTROLS GAS SHUT-OFF VALVE AT ENTRANCE TO WATER HEATER

# SUPPORT

PROVIDE CONCRETE HOUSEKEEPING PAD (MIN 3" ABOVE GROUND LEVEL) FOR ALL WATER HEATERS.

# **GAS PIPING**

# INSTALLATION

PRIME AND PAINT ALL GAS PIPING LOCATED ON ROOF. ALL PIPING TO BE INSTALLED 4" MINIMUM ABOVE ROOF SURFACE.

GAS CONNECTION TO APPLIANCES TO BE CSST AND GAS CONNECTION TO COMMERCIAL COOKING APPLIANCES TO COMPLY WITH ANSI Z21.69. CONNECTORS FOR RANGES AND DOMESTIC CLOTHES DRYERS TO HAVE A MAXIMUM LENGTH OF 6 FT. CONNECTORS FOR ALL OTHER APPLIANCES TO HAVE A MAXIMUM LENGTH OF 3 FT. SHUTOFF VALVES TO BE INSTALLED AHEAD OF CONNECTORS. CONNECTOR INSTALLATION TO COMPLY WITH MANUFACTURER REQUIREMENTS.

ALL PIPING LOCATED IN A RETURN AIR PLENUM TO BE WELDED.

ALL COMBUSTION VENTILATION PIPING FOR GAS EQUIPMENT TO BE UL 1738 LISTED. BASIS OF DESIGN TO BE IPEX SYSTEM 1738 OR EQUAL.

NEW OR MODIFIED GAS PIPING TO BE TESTED AND INSPECTED PER INTERNATIONAL FUEL GAS CODE AND LOCAL JURISDICTION PRIOR TO INITIAL OPERATION. THE TEST PRESSURE TO BE NOT LESS THAN 1-1/2 TIMES THE PROPOSED MAXIMUM WORKING PRESSURE, AND NOT LESS THAN 3 PSIG. TEST DURATION TO BE A MINIMUM 10 MINUTES OR NOT LESS THAN 1/2 HOUR FOR EACH 500 FT³ OF PIPE VOLUME. AREAS OF PIPING WHERE LEAKS OR OTHER DEFECTS ARE LOCATED TO BE REPLACED OR REPAIRED AND RETESTED.

# **GENERAL REQUIREMENTS**

# CONTRACTOR

CLOSELY COORDINATE ALL PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL. COORDINATE FIRE LINE STUB REQUIREMENTS IN FIRE RISER ROOM WITH GENERAL CONTRACTOR/FIRE PROTECTION CONTRACTOR. PIPING IS APPROXIMATE AND DIAGRAMMATIC AND IS NOT TO BE SCALED. PROVIDE ALTERNATE ROUTING, OFFSETS, AND TRANSITIONS AS REQUIRED FOR COORDINATION OF ALL WORK WITHOUT ADDITIONAL COST TO THE OWNER.

FIELD VERIFY ALL PLUMBING PRIOR TO COMMENCING NEW WORK. DO NOT FABRICATE OR INSTALL ANY PLUMBING BEFORE VERIFYING DIMENSIONS AND ROUTING WITH BUILDING CONDITIONS AND ALL OTHER TRADES.

CONTRACTOR IS RESPONSIBLE FOR ALL APPLICABLE PERMITS AND FEES.

IF DISCREPANCIES EXIST BETWEEN BUILDING CODES, DRAWINGS, NOTES, AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT WILL BE REQUIRED UNLESS CLARIFIED BY PROJECT ENGINEER IN AN OFFICIAL ADDENDUM OR SUPPLEMENTAL

ALL DETAILS INCLUDED IN DESIGN DRAWINGS MUST BE APPLIED TO ALL RELEVANT INSTALLATIONS REFERRED TO IN THE DETAIL. EACH DETAIL WILL NOT BE SPECIFICALLY REFERENCED ON THE DRAWINGS.

REQUESTS FOR INFORMATION: THE CONTRACTOR ACKNOWLEDGES ITS RESPONSIBILITY TO BE FAMILIAR WITH THE CONTRACT DOCUMENTS. REQUESTS FOR INFORMATION (RFI'S) WILL BE RESPONDED TO WITHIN FIVE WORKING DAYS OF RECEIPT. TIME SPENT REVIEWING RFI'S IN WHICH THE INFORMATION REQUESTED IS CLEARLY INCLUDED IN THE DRAWINGS OR SPECIFICATIONS WILL BE CHARGED TO THE CONTRACTOR AT ENGINEERING SYSTEM SOLUTIONS' STANDARD BILLING RATES.

### INSTALLATION

PROVIDE SEISMIC RESTRAINTS FOR PLUMBING EQUIPMENT AND PIPING. RESTRAINTS ARE TO COMPLY WITH SEISMIC DESIGN CRITERIA LISTED IN THE STRUCTURAL GENERAL NOTES AND IN ACCORDANCE WITH ASCE/SEI 7-10 AND BUILDING CODE. CONTRACTOR IS RESPONSIBLE TO PROVIDE INSTALLATION DETAILS THAT ARE STAMPED BY A PROFESSIONAL ENGINEER, LICENSED IN THE LOCAL JURISDICTION, DETAILS ARE TO ACCOUNT FOR SEISMIC, WIND, AND GRAVITY LOADING REQUIREMENTS. WHEN ENGINEERING SYSTEM SOLUTIONS (ES2) PROVIDES THE STRUCTURAL ENGINEERING, GENERIC INSTALLATION DETAILS MAY BE INCLUDED IN THE STRUCTURAL DOCUMENTS AND MAY BE FOLLOWED WHERE APPLICABLE. REFER TO STRUCTURAL GENERAL NOTES FOR SEISMIC DESIGN CATEGORY, SITE CLASS, RISK CATEGORY, SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION COEFFICIENT (SDS), ONE SECOND PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION COEFFICIENT (SD1), AND IMPORTANCE

CLOSE ENDS OF PIPING AND COVER FLOOR DRAINS DURING CONSTRUCTION. CLEAN ALL EQUIPMENT AND PIPING AT COMPLETION OF PROJECT.

CAULK AND SEAL ALL PENETRATIONS THROUGH CEILINGS, WALLS, AND FLOORS. PROVIDE ESCUTCHEON COVERS OR SHEET METAL FLANGES ON ALL VISIBLE PENETRATIONS.

COORDINATE ALL STRUCTURAL AND TOP PLATE PENETRATIONS FOR PIPING WITH GENERAL CONTRACTOR AND STRUCTURAL ENGINEER.

CONCEALED VENTS, DUCTS, AND ALL PIPING INSTALLED THROUGH FRAMING MEMBERS MUST BE PROTECTED FROM FASTENER PENETRATION BY A STEEL SHIELD PLATE (MINIMUM THICKNESS OF 1/16") UNLESS THE DISTANCE FROM THE FACE EDGE OF THE FRAMING IS NOT LESS THAN 1.5".

PROVIDE AND INSTALL EXPANSION JOINTS FOR ALL PIPING SYSTEMS PER CODE AND LOCAL JURISDICTION REQUIREMENTS. AT A MINIMUM. PROVIDE EXPANSION JOINTS WHEN JOINING SEPARATE PIPING MATERIAL AND FOR ALL DWV AND ROOF DRAIN STACKS SERVING MORE THAN TWO FLOORS.

INSTALLING CONTRACTOR MUST INSTALL ALL PIPING TO MEET PIPING MANUFACTURER RECOMMENDATIONS FOR THERMAL EXPANSION. INSTALL EXPANSION LOOPS AND/ OR BENDS AS RECOMMENDED. AS A MINIMUM REQUIREMENT: ALL PIPING CONVEYING FLUIDS OF TEMPERATURES GREATER THAN 100 DEGREES, ALL PIPING WITH STRAIGHT RUNS LONGER THAN 100 FEET, ALL PEX-A PIPING, AND ALL OTHER MANUFACTURER RECOMMENDED APPLICATIONS TO INCORPORATE EXPANSION LOOPS AND/ OR BENDS TO MINIMIZE THERMAL EXPANSION STRESSES. ALL PEX-A PIPING LARGER THAN 3/4 IN DIA TO INCORPORATE PIPE SUPPORT CHANNEL PER MANUFACTURER RECOMMENDATIONS.

PROVIDE DRAIN PANS UNDER ALL PIPING LOCATED OVER ELECTRICAL PANELS AND UNDER ALL WATER HEATERS.

ANY PIPE THAT PASSES THROUGH A FOUNDATION WALL TO BE PROVIDED WITH A PIPE SLEEVE. THE SLEEVE TO BE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. COORDIANTE ANY PENETRATIONS NOT LISTED ON DRAWINGS WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

PROVIDE FIRE SAFING ON ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES WITH UL RATED FIRE SAFING MATERIAL. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED ASSEMBLY LOCATIONS AND DESCRIPTIONS.

PIPING MAY DIFFER IN DIMENSIONS THAN WHAT IS INDICATED ON DRAWINGS BASED ON EASIER PROCUREMENT OR CONSISTENT SIZES. PIPING MUST BE LARGER THAN WHAT IS INDICATED ON THE DRAWINGS AND THE CONTRACTOR MUST COORDINATE ROUTING OF LARGER PIPING WITH FIELD CONDITIONS.

PIPE SIZE RUNOUTS TO INDIVIDUAL PLUMBING FIXTURES TO MATCH SIZE SHOWN IN PLUMBING FIXTURE SCHEDULE UNLESS NOTED OTHERWISE.

PROVIDE PIPE ACOUSTIC ISOLATION SUPPORTS (HOLDRITE OR APPROVED EQUAL) FOR ALL PIPING LOCATED IN INTERROGATION WALLS AND ABOVE INTERROGATION CEILINGS. ACOUSTIC ISOLATION SUPPORTS TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

PIPING AND EQUIPMENT HANGERS CENTERED ON STEEL I-BEAMS (CONCENTRIC HANGERS) ARE PREFERRED OVER HANGERS SUPPORTED FROM A SINGLE SIDE OF THE BOTTOM I-BEAM FLANGE. IF USING HANGERS SUPPORTED FROM A SINGLE SIDE OF THE BOTTOM FLANGE, THE MAXIMUM WEIGHT LIMIT PER HANGER IS 200 POUNDS UNLESS DIRECTED OTHERWISE BY THE PROJECT STRUCTURAL ENGINEER.

HANGERS AND SUPPORTS TO BE DESIGNED AND MANUFACTURED IN CONFORMANCE WITH ANSI/MSS SP-58

# COMMISSIONING

# CONTRACTOR

A COMMISSIONING AUTHORITY HAS BEEN RETAINED BY THE OWNER TO PERFORM COMMISSIONING FOR THIS PROJECT (UNVC). THE INSTALLING CONTRACTORS WILL BE RESPONSIBLE TO ASSIST UNVC WITH THE COMMISSIONING SCOPE FOR ALL PLUMBING SYSTEMS. THE INSTALLING CONTRACTORS WILL BE RESPONSIBLE FOR THE FOLLOWING:

1. COMPLETE ALL PRE-FUNCTIONAL TESTING FORMS THAT UNVC PROVIDES FOR ALL OF THE PLUMBING SYSTEMS. 2. COMPLETE ALL FUNCTIONAL TESTING FORMS THAT UNVC PROVIDES FOR ALL OF THE PLUMBING SYSTEMS.

3. INSTALLING CONTRACTORS WILL BE RESPONSIBLE FOR ADDITIONAL TESTING IF THE SYSTEMS FAIL DURING UNVC TESTING. 4. UNVC WILL REVIEW THE O&M MANUALS.

	STANDARD ABBREVIATIONS	PLUMBING LEGEND									
(E) AFF	EXISTING ABOVE FINISHED FLOOR		BALL VALVE		DOMESTIC COLD WATER (DCW)						
Al	ANALOG INPUT		BUTTERFLY VALVE		DOMESTIC HOT WATER (DHW)						
ALT AO	ALTERNATE ANALOG OUTPUT	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	GATE VALVE		DOMESTIC HOT WATER RECIRC. (DHWR)						
BFF	BELOW FINISHED FLOOR				, ,						
CAP. CD	CAPACITY CONDENSATE DRAIN		GLOBE VALVE	S-DCW	SOFTENED DOMESTIC COLD WATER						
CTG	CLEANOUT TO GRADE	M	MOTORIZED VALVE OPERATOR	U-DCW	UNSOFTENED DOMESTIC COLD WATER						
CV	CONSTANT VOLUME		CHECK VALVE (SWING OR LIFT AS REQ'D)	FS-DCW	FUTURE SOFTENED DOMESTIC COLD WATER						
CWFU DFU	COLD WATER FIXTURE UNITS DRAINAGE FIXTURE UNITS		SOLENOID VALVE	—— (TEMP)°F ——	DOMESTIC HOT WATER (SPECIFIED TEMP.)						
DI	DIGITAL INPUT		AUTOMATIC CONTROL VALVE (2-WAY)	—DHWR (TEMP)°F—	DOMESTIC HOT WATER RECIRC.						
DIA OR Ø DO	DIAMETER DIGITAL OUTPUT		AUTOMATIC CONTROL VALVE (3-WAY)		(DHWR-SPECIFIED TEMP.) SANITARY VENT (VT)						
DSN	DOWNSPOUT NOZZLE		, ,		` '						
DW EFF	DISHWASHER EFFICIENCY		PRESSURE REDUCING VALVE		SANITARY SEWER ABOVE GRADE (SS)						
ELEV	ELEVATION	——————————————————————————————————————	P & T RELIEF VALVE		SANITARY SEWER BELOW GRADE (SS)						
EWT FA	ENTERING WATER TEMPERATURE FREE AREA	——————————————————————————————————————	PET COCK OR GAUGE COCK	<del>///////</del>	HEAT TRACING						
FCO	FLOOR CLEANOUT		AUTOMATIC FLOW CONTROL VALVE	——CHS——	CHILLED WATER SUPPLY						
FD FPM	FLOOR DRAIN FEET PER MINUTE		WATER HAMMER ARRESTOR	——CHR——	CHILLED WATER RETURN						
FS	FLOOR SINK		AIR VENT (AUTOMATIC)	CD	CONDENSATE DRAIN						
FT FW	FEET FRESH WATER										
GA	GAUGE		STRAINER	CWS	CONDENSOR WATER SUPPLY						
GAL GD	GALLON GARAGE DRAIN		VENTURI FLOW METER	CWR	CONDENSOR WATER RETURN						
GPM	GALLONS PER MINUTE		TEMPERATURE & PRESSURE TEST PLUG	<del></del> FS <del></del>	FIRE SPRINKLER SERVICE						
HP HR	HORSEPOWER HOUR		FLOW SWITCH	——HWS——	HEATING WATER SUPPLY						
HT	HEIGHT		TEMPERATURE SENSOR	HWR	HEATING WATER RETURN						
HWFU IAQ	HOT WATER FIXTURE UNITS INDOOR AIR QUALITY	<u> </u>	PRESSURE GAUGE W/GAUGE COCK	LP	LIQUID PROPANE						
IN.	INCH	#	THERMOMETER	NG	NATURAL GAS						
INWC INWG	INCHES OF WATER COLUMN INCHES OF WATER GAUGE										
LBS	POUNDS		PUMP	OD	OVERFLOW ROOF DRAIN						
LWT MAX	LEAVING WATER TEMPERATURE MAXIMUM		ELBOW DOWN	——RD——	ROOF DRAIN OR EXTERIOR DRAIN						
MBH	THOUSAND BRITISH THERMAL UNITS/HOUR		ELBOW UP		REFRIGERANT LIQUID						
MECH MIN	MECHANICAL MINIMUM		TEE DOWN	RS	REFRIGERANT SUCTION						
NC	NOISE CRITERIA	+ <del>C</del>	HOSE BIB OR SILLCOCK	s	STEAM						
NIC NO.	NOT IN CONTRACT NUMBER		PIPE CAP	SD	STORM DRAIN						
NOM	NOMINAL			<b>OD</b>							
NTS OD	NOT TO SCALE OVERFLOW DRAIN		REDUCER VALVE	**	PIPING BELOW GRADE (**SYS. ABR.)						
OSA	OUTSIDE AIR		UNION		POINT OF REMOVAL FROM EXISTING						
PD	PRESSURE DROP		YARD HYDRANT/ROOF HYDRANT		POINT OF CONNECTION TO EXISTING						
PRV PSI	PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH		FLOOR DRAIN	(P##)	KEYED NOTE						
PSIG	POUNDS PER SQUARE INCH GAUGE		FLOOR SINK	<b>A</b> •							
RD RPBP	ROOF DRAIN REDUCED PRESSURE BACKFLOW PREVENTER		CLEANOUT TO GRADE (CTG)	SEC#	SECTION CUT LINE						
SL	SEA LEVEL		` '	SHEET#							
SP SQ FT	STATIC PRESSURE SQUARE FEET	_ <del>_</del>	FLOOR CLEANOUT (FCO)	4							
SR	STORY RISER	<b>–</b> ——CII	WALL CLEANOUT (WCO)	P5.1	DETAIL TAG						
SS TSP	SERVICE SINK OR STAINLESS STEEL TOTAL STATIC PRESSURE		EXPANSION JOINT								
UNO	UNLESS NOTED OTHERWISE		FLEXIBLE PIPE CONNECTION								
VAV VFD	VARIABLE AIR VOLUME VARIABLE FREQUENCY DRIVE		REDUCED PRESSURE BACKFLOW PREVENTER								
VOL	VOLUME		DOUBLE CHECK BACKFLOW PREVENTER								
VTR W/	VENT THROUGH ROOF WITH		POODLE OHLON DAONI LOW FREYENTER								
W/O	WITHOUT										
WCO WPD	WALL CLEANOUT WATER PRESSURE DROP										
	I WATEN FINESSUIVE DINOL		ı	NOTE: NOT ALL SYMBOL	C MAY DE LICED						

	FLUID OPERATING						
SYSTEM TYPES	TEMP RANGE AND USAGE (°F)	CONDUCTIVITY (BTU*IN/(h*FT2*°F))	MEAN RATING TEMP (°F)	≤ 1	1 1/4	1 1/2	≥2
DHW (120°F), DHWR (120°F)	105 - 140	0.21 - 0.28	100	1.0	1.25	1.5	2.0
DCW	40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0
ROOF DRAINS	ALL	0.27	N/A	0.5	0.5	0.5	0.5

BASED ON THE INTERNATIONAL ENERGY CONSERVATION CODE AND THE UNIFORM PLUMBING CODE.

2. PROVIDE ALUMINUM JACKETS ON ALL PIPING INSULATION LOCATED EXTERIOR OF THE BUILDING. PROVIDE PVC JACKET ON ALL EXPOSED PIPING INSULATION IN MECHANICAL ROOM. INSULATE ALL ROOF DRAIN PIPING WITH MINIMUM 1/2" INSULATION. INSULATE ALL ROOF DRAIN AND OVERFLOW DRAIN BOWLS WITH MINIMUM 1" INSULATION. INSULATION TO BE 0.27 BTU\*IN/(H\*FT2\*°F).

PROVIDE PROTECTIVE SHIELDING PIPE COVERS ON ALL PIPES EXPOSED AT ADA PLUMBING FIXTURES. PROTECTIVE SHIELDING PIPE COVERS TO COMPLY WITH ADA REQUIREMENTS. PROVIDE 1 1/2" MINERAL FIBER, TYPE I, PREFORMED PIPE INSULATION FOR INDOOR HEAT TRACED SANITARY WASTE PIPING. PROVIDE 2" CELLULAR GLASS

PIPE INSULATION FOR OUTDOOR HEAT TRACED SANITARY WASTE PIPING. . REFER TO SPECIFICATIONS FOR ADDITIONAL INSULATION REQUIREMENTS.

# PLUMBING VALVE SCHEDULE

ACTION	NPS ≤ 2"	2" < NPS < 4"	NPS ≥ 4"
SHUT-OFF SERVICE	BALL VALVE LEAD FREE BRONZE VALVE TWO-PIECE FULL PORT BASIS OF DESIGN: APOLLO 77FLF FOR GAS: APOLLO 80-100	GATE VALVE LEAD FREE IRON VALVE FULL PORT BASIS OF DESIGN: APOLLO 610FLF	BUTTERFLY VALVE LEAD FREE IRON VALVE ALUMINUM BRONZE DISC BASIS OF DESIGN: APOLLO LC149
CHECK VALVE	SWING VALVE LEAD FREE BRONZE VALVE BASIS OF DESIGN: APOLLO 161TLF	LEAD FREE IRON VALVE LEVER & WIEGHT OR SPRING BASIS OF DESIGN: APOLLO 910FLW-LF	SWING VALVE LEAD FREE IRON VALVE LEVER & WEIGHT OR SPRING BASIS OF DESIGN: APOLLO 910FI W-I F

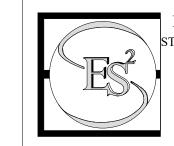
PROVIDE SHUT-OFF VALVES & UNIONS AT INLETS & OUTLETS OF ALL EQUIPMENT FOR SERVICING PURPOSES. 2. USE DIELECTRIC UNIONS FOR ALL DISSIMILAR METALS.

3. USE CORRECT ADAPTERS AND COUPLINGS FOR THE SPECIFIED PIPING MATERIALS.

4. ALL VALVES MUST BE COMPATIBLE WITH ANTICIPATED FLUID PRESSURES, FLUID TEMPERATURES, AND FLUID TYPES; INCLUDING GLYCOLICONCENTRATIONS AND POTABLE WATER REQUIREMENTS, ETC.

5. ALL VALVES MUST MEET A MINIMUM PRESSURE RATING OF 125 PSI AT A TEMPERATURE OF 200  $^{\circ}$ F. 6. BRONZE VALVES TO BE MADE WITH DEZINCIFICATION-RESISTANT MATERIALS

	SHEET INDEX											
SHEET NO.	SHEET TITLE	REVISION										
AB P-001	PLUMBING GENERAL NOTES AND LEGEND											
AB P-100	PLUMBING SITE PLAN											
AB P-111	AUXILIARY BUILDING PLUMBING FLOOR PLAN											
AB P-201	PLUMBING CALCULATIONS AND SCHEMATICS											
AB P-501	TYPICAL DETAILS											
AB P-502	TYPICAL DETAILS											
AB P-503	TYPICAL DETAILS											
AB P-601	PLUMBING SCHEDULES											
TOTAL NO. OF	F SHEETS: 8											



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- AUXILIARY

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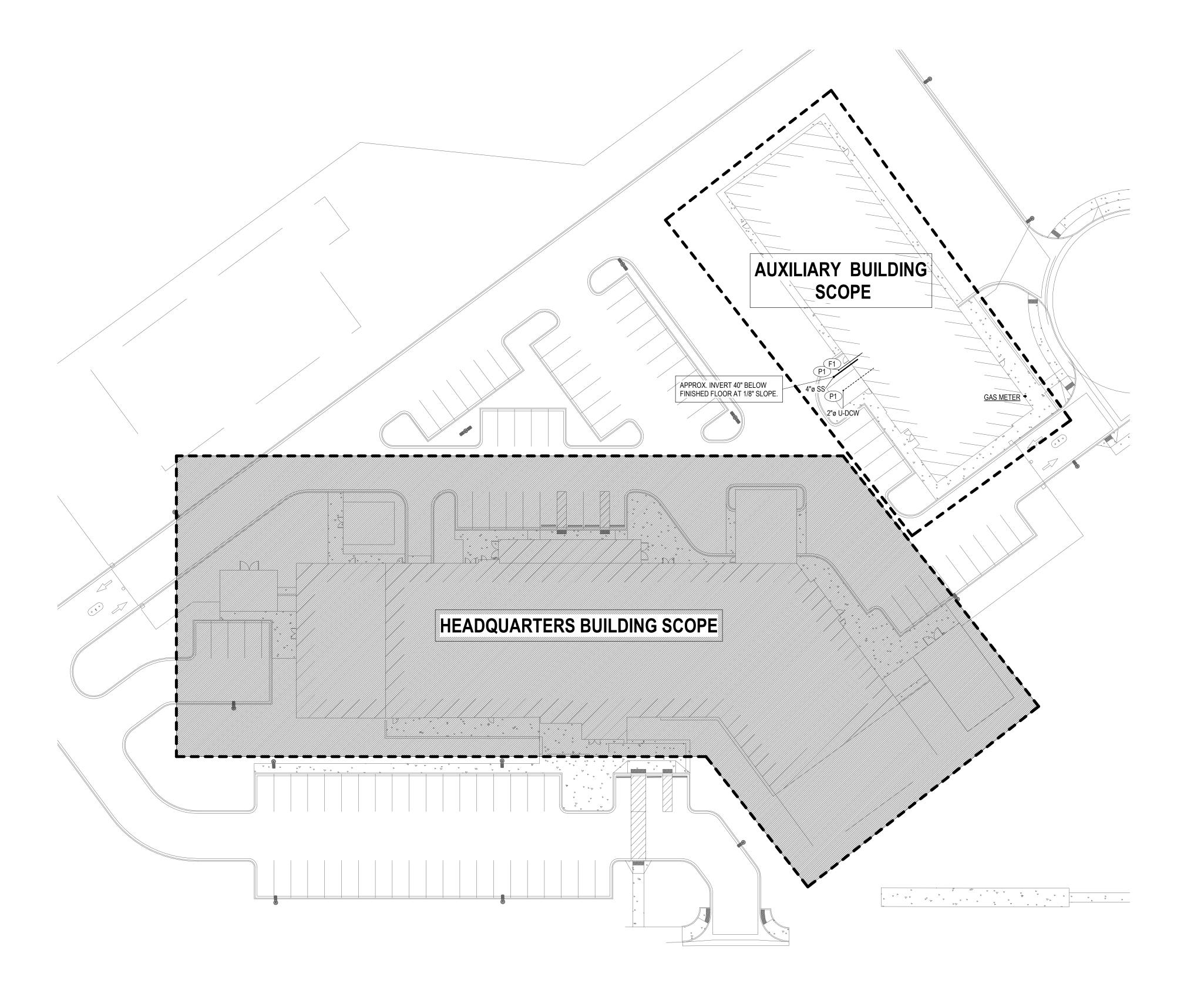
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ssue Date: 2022.02.10

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**PLUMBING GENERAL NOTES** AND LEGEND



# PLUMBING SITE PLAN - AUXILIARY BUILDING SCALE: 1" = 30'-0"

# **PLAN NOTES**

- A. REFER TO GAS SCHEMATIC FOR GAS PIPE SIZING AND
- REQUIREMENTS. B. CONDENSATE PIPING TO BE 3/4"Ø UNLESS OTHERWISE SPECIFIED. SLOPE ALL CONDENSATE PIPING AT MIN 1/8" PER FT. CONDENSATE PIPING IS INTENDED TO BE ROUTED ABOVE CEILINGS AND WITHIN WALLS. COORDINATE ROUTING WITH ALL TRADES PRIOR TO INSTALLATION.
- C. ROOF DRAINS SIZED FOR 1.2 IN/HR (0.012 GPM/SQFT) AT 1/8" PER FOOT
- D. ROUTE PIPING FROM EACH FIXTURE TO NEAREST MAINLINE. REFER TO PLUMBING FIXTURE SCHEDULE FOR REQUIRED PIPE CONNECTIONS AND PIPE RUNOUT SIZES.

# **KEYNOTES**

- F1 REFER TO CIVIL FOR CONTINUATION OF FIRE SPRINKLER PIPING. COORDINATE FINAL RISER LOCATION WITH GENERAL CONTRACTOR/ARCHITECT. COORDINATE FIRE LINE SIZE AND RISER REQUIREMENTS WITH GENERAL CONTRACTOR.
- P1 REFER TO CIVIL FOR CONTINUATION OF PIPING.



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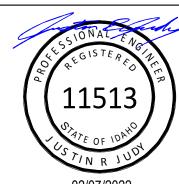
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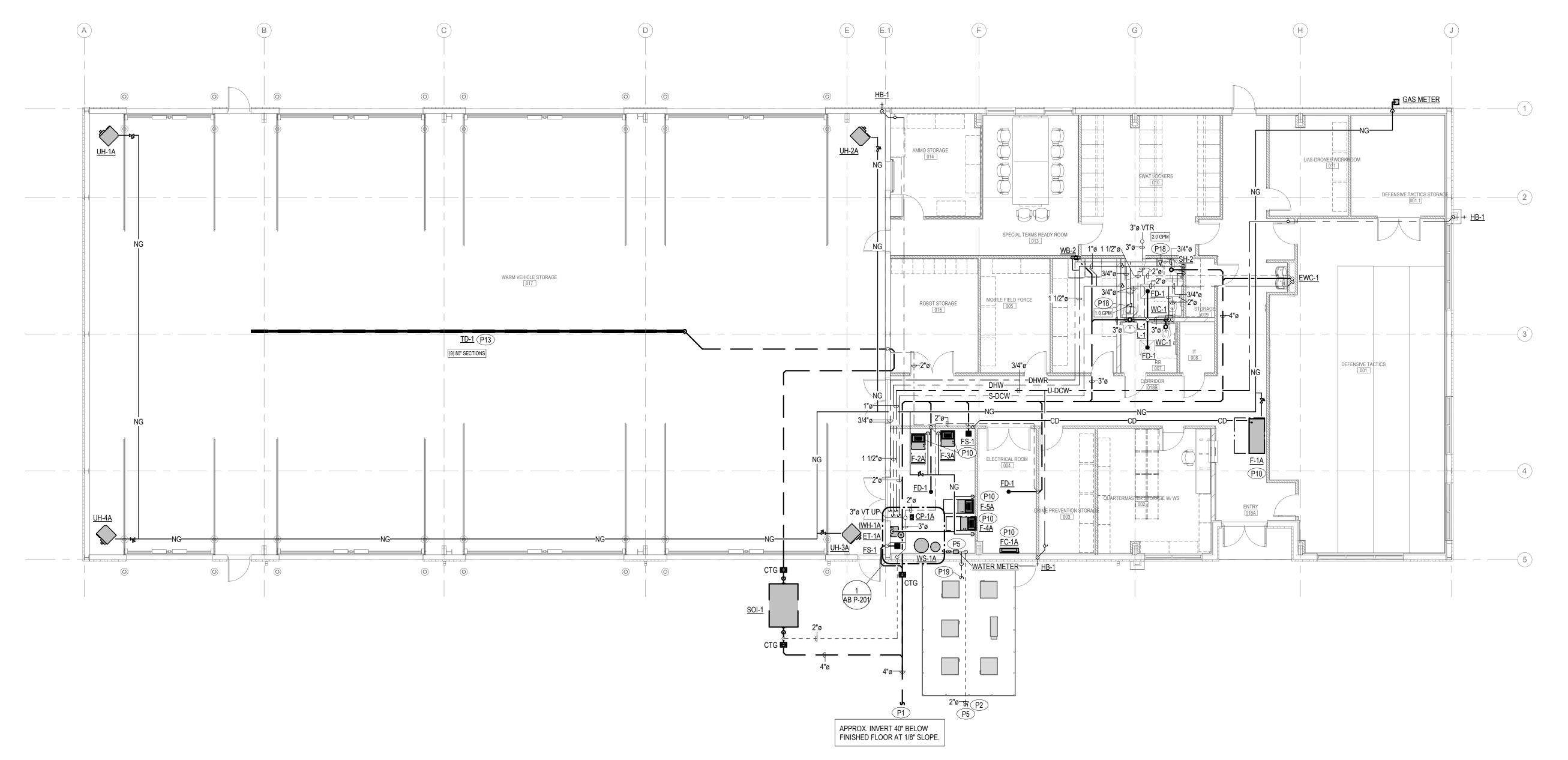
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**PLUMBING SITE** PLAN

**AB P-100** 



# **PLAN NOTES**

- A. REFER TO GAS SCHEMATIC FOR GAS PIPE SIZING AND
- REQUIREMENTS.

  B. CONDENSATE PIPING TO BE 3/4"Ø UNLESS OTHERWISE SPECIFIED. SLOPE ALL CONDENSATE PIPING AT MIN 1/8" PER FT. CONDENSATE PIPING IS INTENDED TO BE ROUTED ABOVE CEILINGS AND WITHIN WALLS. COORDINATE ROUTING WITH ALL TRADES PRIOR TO INSTALLATION.
- C. ROOF DRAINS SIZED FOR 1.2 IN/HR (0.012 GPM/SQFT) AT 1/8" PER FOOT SLOPE.
- D. ROUTE PIPING FROM EACH FIXTURE TO NEAREST MAINLINE. REFER TO PLUMBING FIXTURE SCHEDULE FOR REQUIRED PIPE CONNECTIONS AND PIPE RUNOUT SIZES.

# **KEYNOTES**

- P1 REFER TO CIVIL FOR CONTINUATION OF PIPING.
- P2 DOMESTIC WATER SYSTEM DESIGNED BASED ON 65 PSI STATIC WATER PRESSURE TO BUILDING. CONTRACTOR TO VERIFY STATIC WATER PRESSURE TO BUILDING AND IS TO COORDINATE WITH ENGINEER FOR ADDITIONAL REQUIREMENTS (PIPE SIZING, PRV, BOOSTER PUMP) IF WATER PRESSURE IS LESS THAN 65 PSI OR GREATER THAN 80 PSI.
- P5 PROVIDE 2" METER AND APPROVED BACKFLOW PREVENTION DEVICE PRIOR TO BUILDING CONNECTION. REFER TO CITY OF IDAHO FALLS STANDARD DRAWING NO. IF-401E ON SHEET P-503 FOR INSTALLATION REQUIREMENTS.
- P10 INDIRECT PRIMARY CONDENSATE DRAIN FROM HVAC EQUIPMENT AT NEAREST FLOOR DRAIN OR FLOOR SINK.
- P13 PROVIDE A P-TRAP CONNECTION AT TRENCH DRAIN OUTLET WITH TRAP PRIMER.
- P18 REFER TO TYPICAL AUTOMATIC FLOW CONTROL VALVE DETAIL FOR INSTALLATION REQUIREMENTS. THERMOSTATIC FLOW CONTROL VALVE TO BE SET TO PROVIDE GPM AS INDICATED.
- P19 TO IRRIGATION SYSTEM BY OTHERS. PROVIDE WITH APPROVED BACKFLOW PREVENTION DEVICE. REFER TO CITY OF IDAHO FALLS STANDARD DRAWING NO. IF-401E ON SHEET P-503 FOR INSTALLATION REQUIREMENTS..



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Project No. **1047-20** 

Revisions:

**BID ISSUE** 

Issue Date: **2022.02.10** 

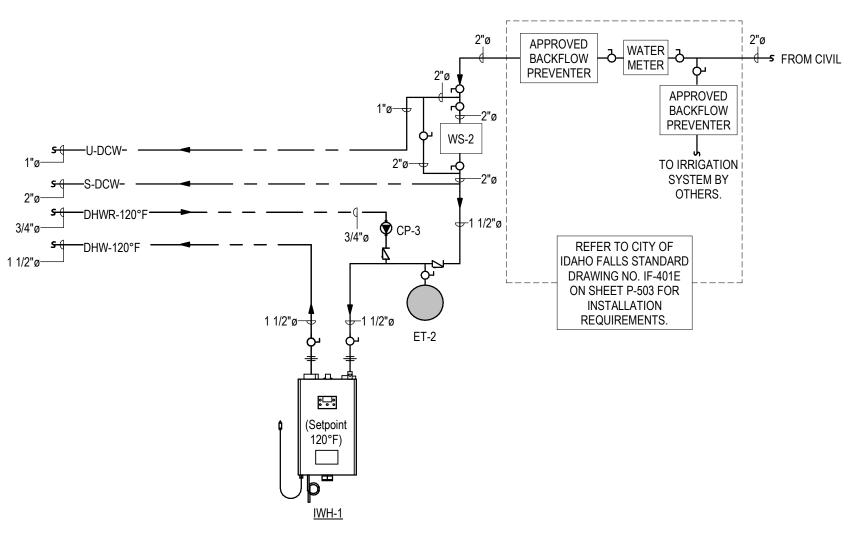
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> AUXILIARY BUILDING

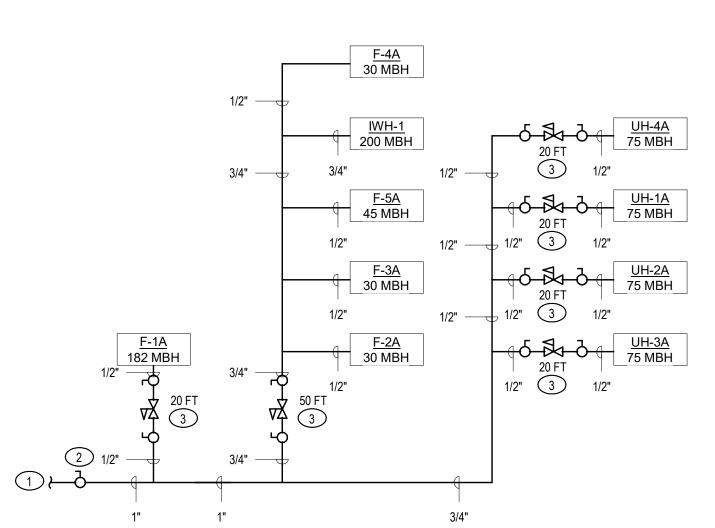
PLUMBING FLOOR

**AB P-111** 

PLAN



# WATER SCHEMATIC - AUXILIARY BUILDING AB P-201 NO SCALE



- KEYNOTES:

  1. TO GAS METER. REFER TO AUXILIARY BUILDING FLOOR PLANS FOR LOCATION. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH GAS PROVIDER PRIOR TO TRENCHING AND INSTALLATION OF PIPING. 2. SHUTOFF VALVE TO BE MOUNTED RIGIDLY ON
- EXTERIOR WALL. 3. PRESSURE REGULATOR TO BE CAPABLE OF HAVING 2 PSI INPUT AND TO BE SET TO HAVE 10"
- W.C. PRESSURE OUTPUT. VERIFY OUTPUT PRESSURE BASED ON APPROVED SUBMITTALS OF ALL EQUIPMENT. NOTES:
  A. GAS COMPANY TO PROVIDE 817 MBH AT 2 PSI
- DOWNSTREAM OF METER TO SERVE BUILDING. B. GAS PIPING SIZED PER LONGEST LENGTH METHOD PER TABLES 1216.2(2), AND 1216.2(4) IN
- THE UPC. C. MAXIMUM EQUIVALENT LENGTH OF 350'. D. 10 IN WC PIPING SIZED AT THE MAXIMUM EQUIVALENT LENGTHS SHOWN NEXT TO EACH PRESSURE REDUCING VALVE. VERIFY MAX PRESSURE OF EACH PIECE OF EQUIPMENT
- BEFORE INSTALL. E. ALL GAS CONNECTIONS TO WATER HEATERS TO BE PROVIDED WITH A SEDIMENT TRAP. INSTALL ALL GAS CONNECTIONS TO APPLIANCES PER MANUFACTURERS RECOMMENDATIONS. INCLUDE THE GAS PIPING SEDIMENT TRAP INSTALLED DOWNSTREAM OF THE APPLIANCE SHUTOFF VALVE AS CLOSE TO THE INLET OF THE APPLIANCE AS PRACTICAL. EXCEPTIONS: APPLIANCES WITH AN INTERNAL SEDIMENT TRAP, (OR) RANGES, CLOTHES DRYERS, GAS
- FIREPLACES, AND OUTDOOR GRILLES. F. PROVIDE ACCESS TO ALL VALVES AND REGULATORS. VENT ALL REGULATORS TO EXTERIOR PER LOCAL JURISDICTION REQUIREMENTS AND MANUFACTURER REQUIREMENTS.

# GAS SCHEMATIC-AUXILIARY BUILDING NO SCALE

		WAIER	M UNI	ASIE SI	ERVICE CAI	LCULATIO	JNS			
JOB NAME:	IDAHO FALLS	POLICE HEADQUARTER	S - AUXILI	ARY BUILDING					DATE	: 02/07/22
FIXTURE TYPE		OCCUPANCY	NO.	W	ASTE	COLD	WATER	нот и	VATER	TOTAL WATE
				DFU	TOTAL	WSFU	TOTAL	WSFU	TOTAL	WSFU
BATHTUB/SHOWER		PUBLIC/PRIVATE	1	2	2	3	3	3	3	4
CLOTHES WASHER, DOMESTIC		PUBLIC/PRIVATE	1	3	3	3	3	3	3	4
LAVATORY		PUBLIC/PRIVATE	2	1	2	0.75	1.5	0.75	1.5	2
WATER CLOSET, FLUSH VALVE		PUBLIC	2	4	8	5	10	0		10
HOSE BIBB 1ST		PUBLIC/PRIVATE	1	0		2.5	2.5	0		2.5
HOSE BIBB ADDITIONAL		PUBLIC/PRIVATE	2	0		1	2	0		2
FLOOR DRAIN		PUBLIC/PRIVATE	4	2	8	0		0		
FLOOR SINK, 2" DRAIN		PUBLIC/PRIVATE	1	4	4	0		0		
FLOOR SINK, 3" DRAIN		PUBLIC/PRIVATE	2	6	12	0		0		
FLOOR SINK, 4" DRAIN		PUBLIC/PRIVATE		8		0		0		
% FLUSH VALVE	100%	TOTAL	16		39.000		22.000		7.500	24.500
EQUIVALENT WATER FLOW RATE (GPN	l):				DCW (GPM)	37.4	DHW (GPM)	11.8	OVERALL	RUNNING PRESSURE
PRESSURE AVAILABLE AT MAIN (PSI):									65	65
METER LOSS (PSI):									3	62
BACKFLOW PREVENTER LOSS (PSI):									8	54
MAIN TO BUILDING LOSSES (PSI):									2	52
							DCW	RUNNING PRESSURE	DHW	RUNNING PRESSURE
EQUIPMENT LOSSES - WATER SOFTEN	ER (PSI):						15	37	15	37
EQUIPMENT LOSSES - WATER HEATER	•							37	5	32
ELEVATION RISE (FT):							8	34	8	29
MINIMUM REQUIRED FIXTURE PRESSUR	RE (PSI):						30	4	20	9
EQUIVALENT PIPE LENGTH TO MOST R	, ,	RE (FT):					100	-	100	-
MAXIMUM ALLOWABLE FRICTION LOSS		, ,					3.5	-	8.5	-
MINIMUM REQUIRED WATER MAIN PIPE						MATERIAL	PI	EX		2"
MINIMUM REQUIRED WASTE MAIN PIPE	•	•		SLOPE	1/8"/FT	MATERIAL	D	/C		4"

				PIPE SIZIN				
			PIPE SIZES	S CALCULATED BA	SED ON UPC			
SIZE:	PEX	CW MA	X FLOW	CW FIXTURE	UNIT VALUES	HW MA	HWFU	
NOMINAL DIAMETER	INTERNAL DIAMETER	GPM	FPS	FLUSH TANK	FLUSH VALVE	GPM	FPS	HOT WATER
1/2"	0.475	1.5	2.8	3	0	2.5	4.5	3
3/4"	0.671	3.8	3.5	4	0	6.1	5.6	4
1"	0.862	7.4	4.0	5	5	11.9	6.5	5
1-1/4"	1.054	12.5	4.6	7	6	20.1	7.4	21
1-1/2"	1.244	19.3	5.1	19	7	30.3	8.0	54
2"	1.629	39.2	6.0	83	42	52.0	8.0	135



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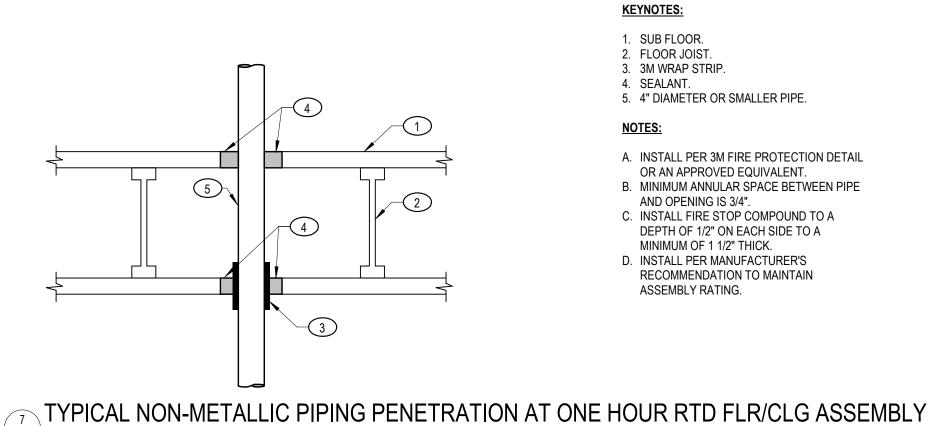
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Issue Date: 2022.02.10

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**PLUMBING CALCULATIONS AND SCHEMATICS** 

**AB P-201** 

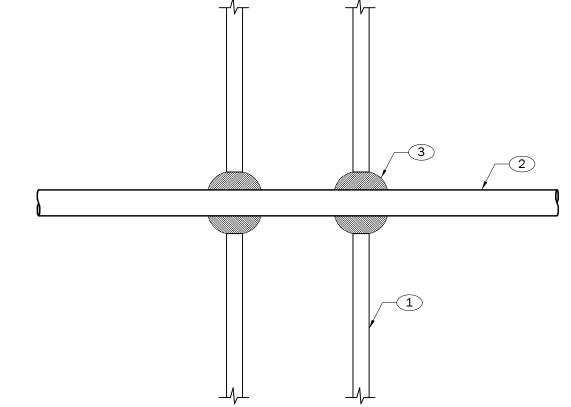


# **KEYNOTES**:

- 1. SUB FLOOR. 2. FLOOR JOIST. 3. 3M WRAP STRIP.
- 4. SEALANT. 5. 4" DIAMETER OR SMALLER PIPE.

# NOTES:

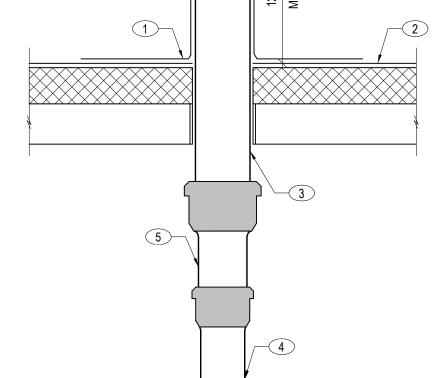
- A. INSTALL PER 3M FIRE PROTECTION DETAIL
- OR AN APPROVED EQUIVALENT.
  B. MINIMUM ANNULAR SPACE BETWEEN PIPE AND OPENING IS 3/4".
- C. INSTALL FIRE STOP COMPOUND TO A DEPTH OF 1/2" ON EACH SIDE TO A
- MINIMUM OF 1 1/2" THICK. D. INSTALL PER MANUFACTURER'S RECOMMENDATION TO MAINTAIN ASSEMBLY RATING.



# **KEYNOTES:**

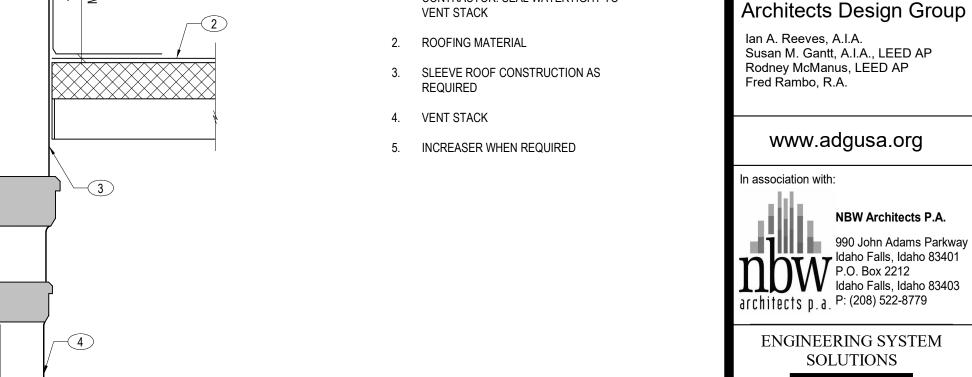
- 1. GYPSUM WALL BOARD
- 2. 4" DIAMETER OR LESS COPPER PIPE OR 10" DIAMETER OR LESS CAST IRON PIPE.
- 3. 3M FB 3000 WT SEALANT

- A. INSTALL PER 3M FIRE PROTECTION DETAIL OR AN APPROVED EQUIVALENT.
- B. MINIMUM ANNULAR SPACE BETWEEN PIPE AND OPENING IS 3/4".
- C. INSTALL FIRE STOP COMPOUND TO A DEPTH OF 1/2" FOR EACH SIDE TO A MINIMUM OF 1 1/2" THICK.
- D. INSTALL PER MANUFACTURER'S RECOMMENDATION TO MAINTAIN ASSEMBLY RATING.



# KEYNOTES:

 SINGLE PLY ROOF JACK FURNISHED AND INSTALLED BY ROOFING CONTRACTOR. SEAL WATERTIGHT TO VENT STACK



TYPICAL METALLIC PIPING PENETRATION AT ONE HOUR RATED WALL ASSEMBLY TYPICAL VENT THROUGH ROOF

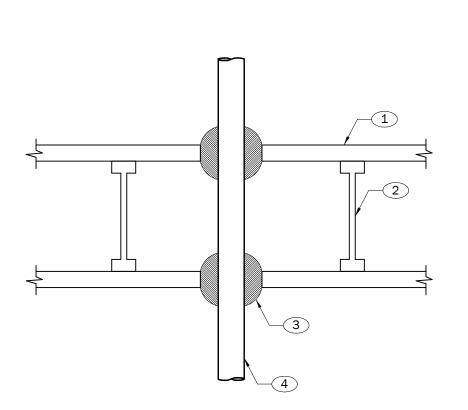
TYPICAL CONDENSATE DRYWELL TERMINATION

AB P-501 NO SCALE

# **KEYNOTES:**

- 1. TO WATER HEATER SUPPLY. RECIRCULATION SYSTEM.
- TEMPERED WATER FLOW. FROM CIRCULATION PUMPS. 5. FROM WATER HEATER.
- 6. CHECK VALVE (TYP).

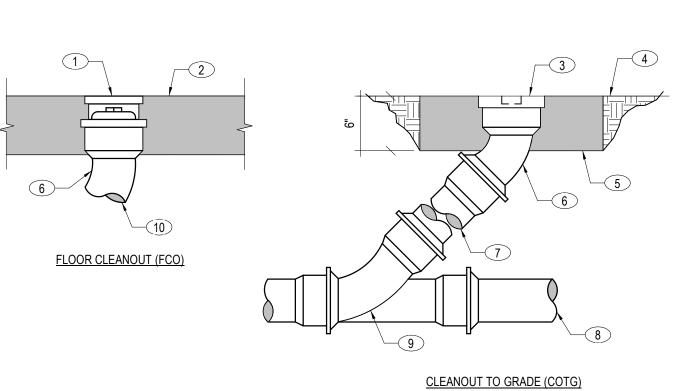
A. SCHEMATIC IS FOR REFERENCE ONLY. REFER TO INSTALLATION MANUAL FOR EXACT INSTALLATION REQUIREMENTS.



# **KEYNOTES:**

- SUB FLOOR
- FLOOR JOIST
- 3. 3M FB 3000 WT SEALANT
- 4. 4" DIAMETER OR LESS COPPER PIPE OR 10" DIAMETER OR LESS CAST IRON PIPE.

- A. INSTALL PER 3M FIRE PROTECTION DETAIL OR AN APPROVED EQUIVALENT.
- MINIMUM ANNULAR SPACE BETWEEN PIPE AND OPENING IS 3/4".
- C. INSTALL FIRE STOP COMPOUND TO A DEPTH OF 1/2" FOR EACH SIDE TO A MINIMUM OF 1 1/2" THICK.
- D. INSTALL PER MANUFACTURER'S RECOMMENDATION TO MAINTAIN ASSEMBLY RATING.



# **KEYNOTES**:

 CLEANOUT AND ACCESS COVER. TOP OF COVER TO BE FLUSH W/ TOP OF FLOOR

## FLOOR LINE

BRASS CLEANOUT PLUG W/ COUNTER SUNK HEAD

# FINISH GRADE

16" SQUARE CONC. PAD TROWEL SMOOTH AND EDGE

# 6. 1/8" C.I. BEND

7. C.I. WASTE LINE. LENGTH TO SUIT

# WASTE LINE

9. 1/8" BEND IF CLEANOUT OCCURS AT END OF LINE

## 10. BALANCE OF PIPING SAME AS CLEANOUT TO GRADE

KEYNOTES:

3. WALL

A. CLEANOUT NOT TO BE LOCATED IN CARPETED AREA

1. CHROME WALL COVER AND SCREW

2. MAY EXTEND AS A WASTE OR

VENT LINE

PLUGGED TEE

6. FLOOR LINE

5. WASTE OR VENT PIPING

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# Project No.

1047-20 Revisions:

# **BID ISSUE**

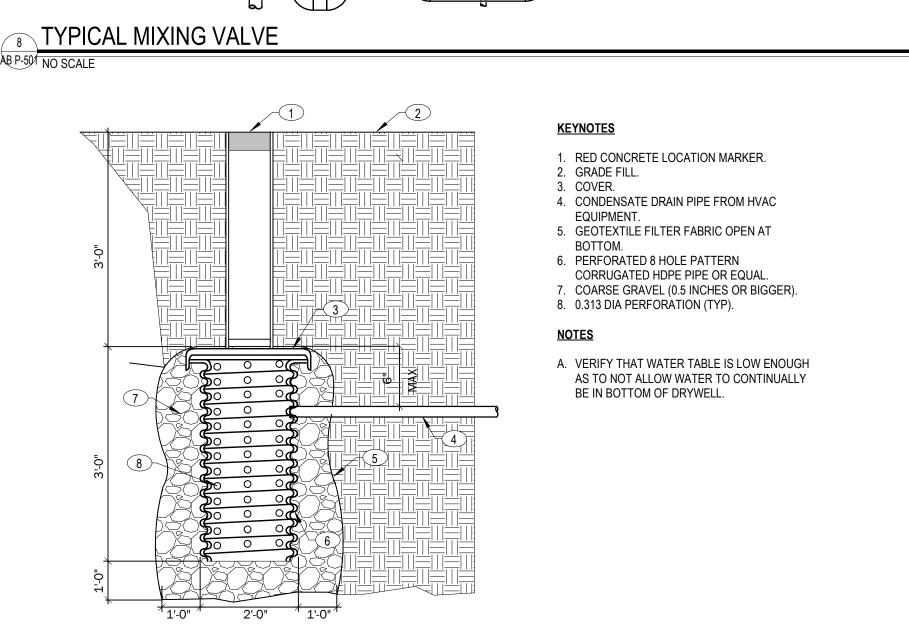
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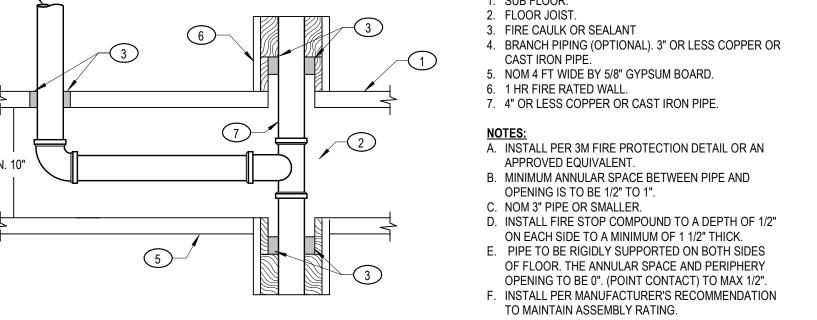
TYPICAL DETAILS

**AB P-501** 

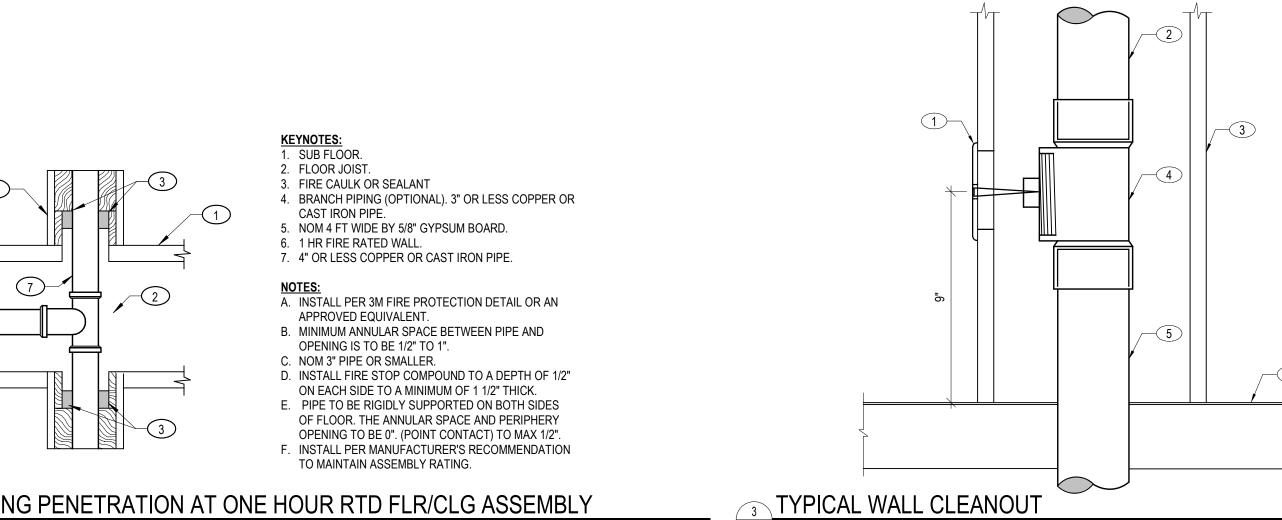


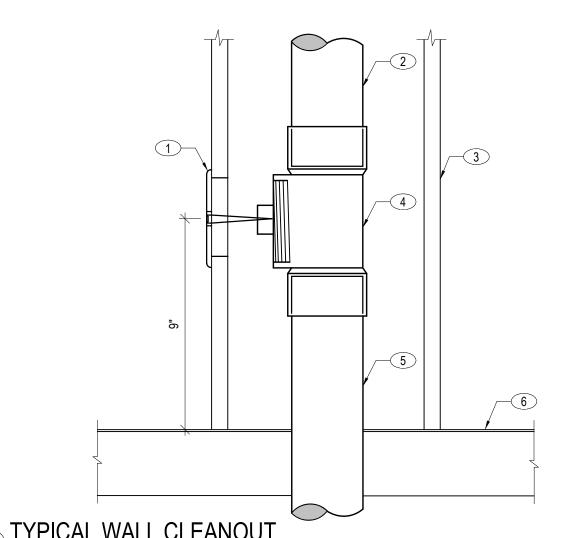
# 5

TYPICAL METALLIC PIPING PENETRATION AT ONE HOUR RTD FLR/CLG ASSEMBLY AB P-501 NO SCALE

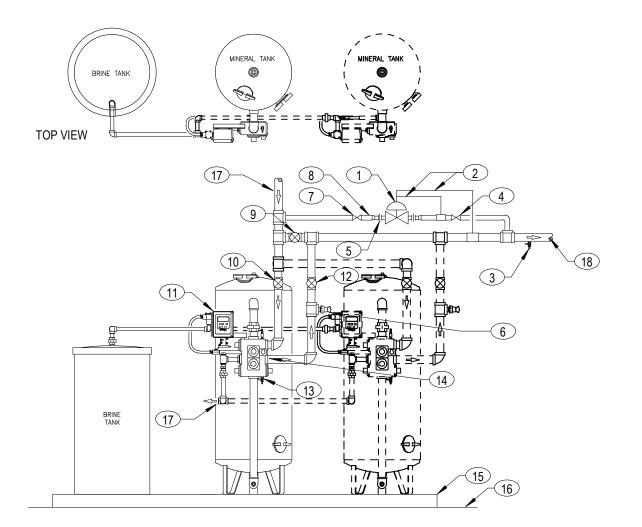


TYPICAL METALLIC PIPING PENETRATION AT ONE HOUR RTD FLR/CLG ASSEMBLY





TYPICAL CLEANOUT



# **KEYNOTES:**

- 1. BLENDING VALVE, CLA VAL NO. 20-01: RATIO OF HARD/SOFT WATER = 30% HARD WATER
- 70% SOFTENED WATER. . SENSING LINES. 3. SAMPLING COCK. WATER SOFTENING IN CONJUNCTION WITH BLENDING VALVE
- SHALL MAINTAIN HARDNESS OF 3 TO 5 GRAINS PER GALLON.
- 4. THROTTLING GLOBE VALVE. . UNION (TYP). FLOW METER (TYP)
- ISOLATION VALVE. B. HARD WATER LINE. 9. MANUAL BYPASS VALVE. NORMALLY
- CLOSED. 10. MANUAL INLET ISOLATION VALVE (TYP). 11. MVP CONTROLLER (TYP).
- 12. MANUAL OUTLET ISOLATION VALVE (TYP).
- 13. SOFT WATER SAMPLE COCK (TYP). 14. OUTLET (TYP).
- 15. 4" THICK HOUSKEEPING PAD. FLOOR SLAB.
- 17. DCW INLET.

**KEYNOTES:** 

MIXING VALVE.

3. CHECK VALVE (TYP).

5. AUTOMATIC AIR VENT (TYP).

A. PUMP TO VARY FLOW TO MAINTAIN

B. PUMPS TO ALTERNATE OPERATION.

SETPOINT RETURN WATER TEMPERATURE.

7. TEMPERATURE GAUGE.

2. BALL VALVE (TYP).

SENSOR.

6. PUMP INLET.

- 18. SDCW OUTLET.
- 19. DRAIN PIPING FULLSIZE TO INDIRECT AT

1. PUMP DISCHARGE - TO WATER HEATER /

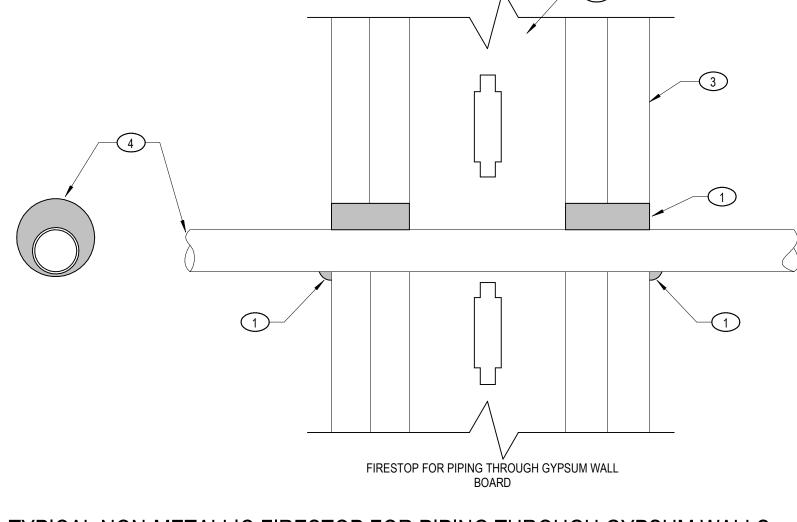
4. CIRC PUMP WITH INTEGRAL TEMPERATURE

# NEAREST DRAIN/ FLOOR SINK. NOTES:

A. PIPING CONNECTION AND CONFIGURATION SHOWN ON THE DETAIL REPRESENT A TYPICAL SYSTEM (SINGLE OR MORE). INSTALL PER EQUIPMENT MANUFACTURERS INSTALLATION INSTRUCTIONS BASED ON QUANTITY FOR COMPLETE AND FUNCTIONAL OPERATION.

B. REFER TO EQUIPMENT SCHEDULE FOR QTY OF SOFTENERS.

# TYPICAL NON-METALLIC FIRESTOP FOR PIPING THROUGH GYPSUM WALLS



# 4 3 -3 4 4

**KEYNOTES:** 

TO BE APPLIED.

2. WOOD OR STEEL STUD.

APPROVED EQUIVALENT.

INSTRUCTIONS.

4. 3" DIAMETER OR SMALLER PIPE.

1. FIRE CAULK, SEALANT OR PUTTY. MIN THICKNESS OF

PERIPHERY OF OPENING, FLUSH WITH BOTH SIDES OF

WALL. AT POINT OF PENETRATION OF PIPE AND GYPSUM

BOARD A MIN 1/2" DIAMETER BEAD OF CAULK OR PUTTY

5/8" AND 1 1/4" OF ANNULUS BETWEEN PIPE AND

3. 1 OR 2 HOUR FIRE RATED GYPSUM WALL BOARD.

A. INSTALL PER 3M FIRE PROTECTION DETAIL OR AN

AND OPENING. FOLLOWING MANUFACTURER'S

B. TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING

PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON

ANNULAR SPACE BETWEEN PIPE AND / OR INSULATION

- GYPSUM WALL BOARD. 2. 4" DIAMETER OR SMALLER PIPE.
- 3. 3M WRAP STRIP. 4. FIRE SEALANT.

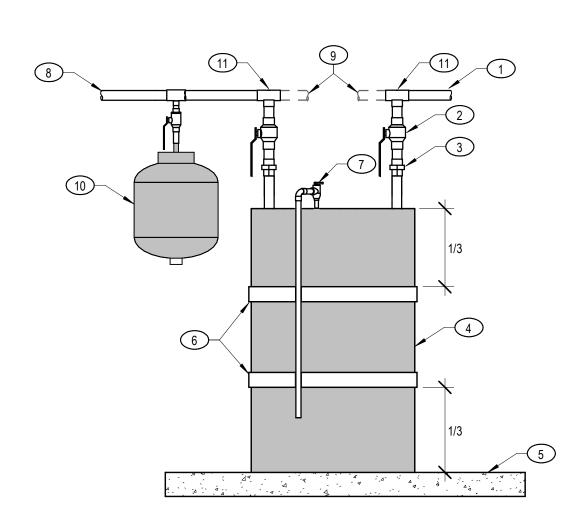
**KEYNOTES:** 

# NOTES:

- A. INSTALL PER 3M FIRE PROTECTION DETAIL OR AN APPROVED EQUIVALENT.
- B. ANNULAR SPACE BETWEEN PIPE AND OPENING IS MINIMUM 3/8" AND MAXIMUM
- C. PIPE TO BE RIGIDLY SUPPORTED ON BOTH
- SIDES OF WALL. D. INTALL FIRE WRAP STRIP TO A DEPTH OF
- 5/8" FROM EACH SIDE OF WALL. E. INSTALL PER MANUFACTURER'S RECOMMENDATION TO MAINTAIN ASSEMBLY RATING.

# TYPICAL HOT WATER RECIRCULATION PUMP

4 TYPICAL WATER SOFTENER
AR P-502 NO SCALE



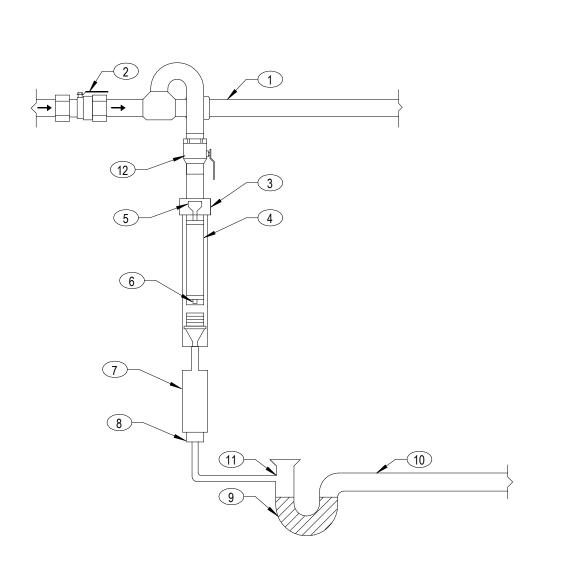
# **KEYNOTES:**

- 1. DOMESTIC HOT WATER SUPPLY. 2. BALL VALVE (TYP).
- 3. UNION (TYP).
- 4. WATER HEATER.
- 5. MINIMUM 3" CONCRETE HOUSEKEEPING PAD. 6. SEISMIC STRAP - SECURE TO WALL.
- 7. P&T RELIEF VALVE INDIRECT TO NEAREST FLOOR SINK/DRAIN. 8. DOMESTIC COLD WATER SUPPLY.
- 9. PROVIDE PIPING CONTINUATION TO ADDITIONAL WATER HEATERS AS REQUIRED PER WATER PIPING SCHEMATIC. INSTALL PIPING TO ADDITIONAL WATER HEATERS PER MANUFACTURER'S RECOMMENDATION. ARRANGE PIPING FOR EQUAL PRESSURE DROP TO EACH WATER HEATER IN A REVERSE RETURN CONFIGURATION FOR
- INLET AND OUTLET PIPING. 10. EXPANSION TANK - HANG OR LOCATE ON FLOOR. ONLY ONE EXPANSION TANK IS REQUIRED PER HOT WATER HEATING
- SYSTEM. 11. PROVIDE A 90 DEGREE ELBOW TO WATER HEATER IF A SINGLE WATER HEATER IS INSTALLED.

# NOTES:

- A. PROVIDE CONDENSATE DRAIN IF REQUIRED.
- ROUTE TO NEAREST FLOOR SINK. B. PROVIDE THERMOWELL AT THE INLET AND OUTLET OF EACH CONNECTION TO EQUIPMENT.
- C. PIPING CONNECTION LOCATIONS SHOWN ON THE DETAIL REPRESENT A TYPICAL WATER HEATER AND MAY NOT CONVEY THE ACTUAL CONNECTION LOCATIONS OF THE SPECIFIED EQUIPMENT. INSTALL PIPING PER MANUFACTURERS RECOMMENDATIONS. D. PROVIDE HEAT TRAPS FOR EACH WATER HEATER PER ENERGY CODE REQUIREMENTS IF WATER HEATING SYSTEM IS NOT EQUIPPED WITH A HOT WATER
- RECIRCULATING SYSTEM. OF CORROSION-RESISTANT MATERIAL
- E. PROVIDE A WATER TIGHT DRAIN PAN MADE BENEATH EACH WATER HEATER. PROVIDE A MINIMUM 3/4" DRAIN TO THE NEAREST FLOOR SINK/DRAIN.

# TYPICAL NON-METALLIC PIPING PENETRATION AT ONE HOUR RATED WALL ASSEMBLY



# **KEYNOTES:**

- 1. AVOID DIRECT INSTALLATION TO PREVENT FOREIGN MATERIAL FROM ENTERING
- DIRECTLY INTO PRIMER.
- LINE SHUT OFF VALVE. UNION CONNECTION.
- TRAP PRIMER VALVE. FILTER SCREEN.
- FOUR VIEW HOLES. MI-GAP AIR GAP FITTING. 8. TRAP PRIMER VALVE SHOULD BE MOUNTED
- ONE FOOT ABOVE THE FINISHED FLOOR FOR EVERY 20 FEET OF PRIMER LINE. WATER TRAP.
- SEWER GAS. 11. FLOOR DRAIN/ SINK TRAP PRIMER
- CONNECTION. SHUTOFF VALVE.

# NOTES:

- A. APPLIES TO ALL DRAINS/ FLOOR SINKS UNLESS NOTED OTHERWISE.
- B. DO NOT INSTALL THE TRAP SEAL PRIMERS CLOSER THAN 40' APART WHEN USING THE SAME POTABLE WATER SUPPLY LINE.

C. THE DEVICE SHOULD BE LOCATED WITHIN

- 20' OF THE VALVE OR FAUCET FOR OPTIMAL DISCHARGE. D. INSTALL TRAP PRIMER IN ACCESSIBLE
- LOCATION. PROVIDE ACCESS PANEL IF NECESSARY. COORDINATE ACCESS PANEL WITH GENERAL CONTRACTOR/ ARCHITECT. . CONNECT ONLY TO THE BRANCH PIPING OF
- FIXTURES THAT SEE FREQUENT USE. F. TRAP PRIMERS SHOULD BE CYCLED AT LEAST SIX TIMES AFTER INSTALLATION TO
- ENSURE OPTIMUM PERFORMANCE.
- G. USE ONLY TEFLON TAPE ON FITTINGS.
- TYPICAL PRESSURE DROP ACTIVATED TRAP PRIMER

TYPICAL DETAILS

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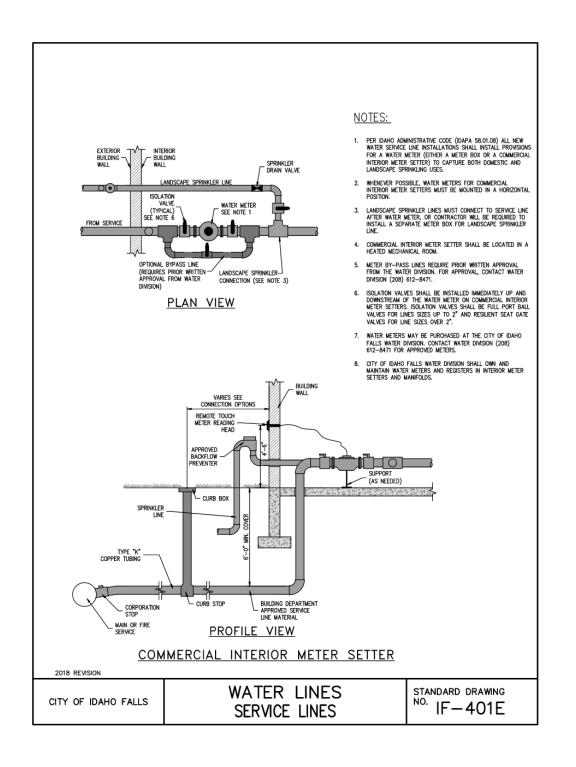
Rodney McManus, LEED AP

Fred Rambo, R.A.

In association with:

**AB P-502** 

6 TYPICAL WATER HEATER



# 3 IDAHO FALLS STANDARD DRAWING IF-401E

# NOTES:

- A. DESIGN FOR TRAFFIC LOAD IF SAND / OIL INTERCEPTOR IS LOCATED IN A VEHICLE OR
- PEDESTRIAN TRAVEL AREA. B. CLEAN OUT BOX SHALL BE TRAFFIC RATED. C. EACH CHAMBER IS REQUIRED TO HAVE (1) 24" CAST IRON MANHOLE RING AND COVER
- WITH GASKET THAT PROVIDES A GAS TIGHT SEAL. MAXIMUM OF 10' BETWEEN MANHOLES OR OVER EACH BAFFLE TEE. D. ALL INTERCEPTOR COVERS SHALL BE
- PERMANENTLY MARKED "INTERCEPTOR" AND COVERS FOR SAMPLING BOX SHALL BE PERMANENTLY MARKED "SAMPLE."
- E. SAND / OIL AND SAMPLING MANHOLE SHALL BE LEVEL. F. REQUEST FOR VARIANCE MUST BE SUBMITTED IN WRITING WITH AS-BUILT OF
- EXISTING CONDITIONS TO THE SERVICES SECTION OF THE UTILITIES DEPARTMENT. G. BACKFILL SHALL BE FLOWABLE MIX, TYPE II OR PER SOILS REPORT. NO PEA GRAVEL
- SHALL BE ALLOWED FOR BACKFILL. H. PROVIDE A SINGLE REINFORCED CONCRETE MAT WITH #4 REBAR IN A 8" THICK CONCRETE SLAB. THE CONCRETE SLABSHALL EXITED 12" OUTSIDE EACH MANHOLE RING AND COVERS. A #4 REBAR SHALL BE PLACED WITHIN 6" OF EACH MANHOLE RING AND COVER.
- I. LANDSCAPING AND PAVEMENT SHALL BE GRADED AWAY FROM SAND / OIL GREASE INTERCEPTORS SO NOT TO ALLOW STANDING WATER AT MANHOLE RING AND
- J. ALL SAND / OIL INTERCEPTORS SHALL BE UPC OR IAPMO APPROVED. K. WATER TEST THE SAND / OIL BY FILLING TO
- THE OUTLET INVERT IN PRESENCE OF INSPECTOR.



# **KEYNOTES:**

- BALL VALVE (TYP).
   AUTOMATIC FLOW CONTROL VALVE.
- 3. CHECK VALVE.

- INDICATED ON DRAWINGS.

# TYPICAL AUTOMATIC FLOW CONTROL VALVE AB P-503 NO SCALE





- A. AUTOMATIC FLOW CONTROL VALVE TO BE FDI ICSS OR EQUAL. REFER TO DRAWINGS FOR
- LOCATIONS OF AUTOMATIC FLOW CONTROL VALVES. C. GPM REQUIRED FOR EACH
- AUTOMATIC FLOW CONTROL VALVE IS
- D. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

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HEADQUARTERS

**IDAHO FALLS** 

- AUXILIARY

**BUILDING** 

IDAHO FALLS, ID

Project No.

Revisions:

1047-20

**POLICE** 

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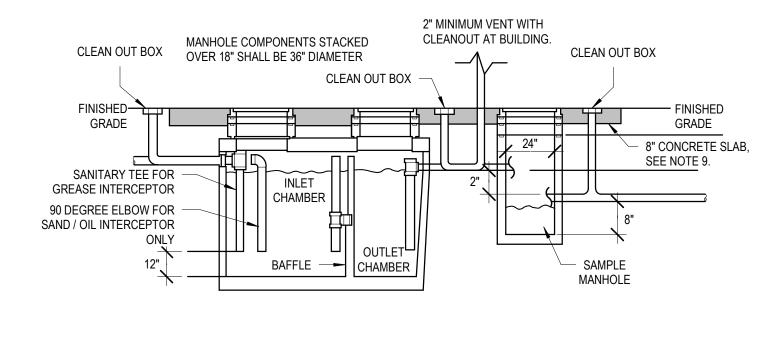
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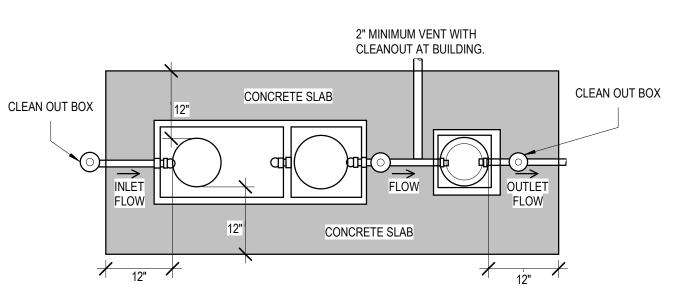
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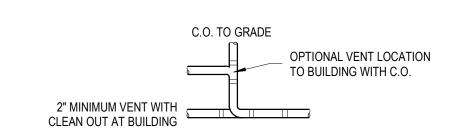
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**TYPICAL DETAILS** 

**AB P-503** 







# TYPICAL SAND/OIL INTERCEPTOR AB P-503 NO SCALE

	AUX INSTANTANEOUS GAS WATER HEATER (IWH)													
MARK	MARK GPM TEMPRISE GAS INPUT (°F) (BTU/H) UEF VENT DIA ELECTRICAL DIMENSIONS (IN) OPER WT									OPER WT (LBS)	MANUFACTURER & MODEL	NOTES		
IWH-1A	5.6	70	199,900	0.96	3	120	1	13	17	27	100	NAVIEN NPE-***A2	1,2,3	
NOTES:						•								

1. RHEEM, RINNAI, AND NAVIEN ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

2. 0.4 GPM ACTIVATION. 3. PROVIDE WITH HIGH ALTITUDE CONVERSION KIT.

				AUX	EXPANSI	ON TAN	K (ET)			
MARK	SYSTEM	WATER	TANK VOL	ACCEP VOL	PRE CHARGE	DIMENSI	ONS (IN)	OPER WT	MANUFACTURER & MODEL	NOTES
WAKK	SERVED	TEMP (°F)	(GAL)	(GAL)	(PSI)	Н	D	(LBS)	WANDFACTORER & WODEL	NOTES
ET-1A	DHW	120	3.5	2.3	40	14	10	50	WATTS DETA	1,2
	ATTS, AND TACO ARE BLE FOR POTABLE V		JFACTURERS. REFI	ER TO MANUFACTUR	ER AND MODEL FOR B	ASIS OF DESIGN.				

				AUX V	VATE	R SO	FTE	NE	R (V	VS)				
MARK	PER IANK	# OF MINERAL TANKS	INLET HARDNESS (GRAINS PER	MAX OUTLET HARDNESS (GRAINS/ GAL)	VALVE SIZE (IN)	MAX PD (PSI)	VOLT		CAL MCA	DIMENSIONS SOFTENER	D X H (IN) BRINE	OPER WT (LBS)	MANUFACTURER & MODEL	NOTES
WS-1A	( <b>GPM</b> ) 38	1	GALLON) 14	3	2	15	120	1	5	16 X 65	24 X 50	1000	WATER TECH SM	1

NOTES:

1. CULLIGAN, WATER TECH, AQUION, COLUMBIA WATER CONDITIONING, AND EVOQUA ARE APPROVED MANUFACTURER. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

	AUX CIRCULATOR PUMP (CP)									
MARK	DUTY	GPM	HEAD (FT)	ELECTICAL			OPER WT (LBS)	MANUFACTURER & MODEL	NOTES	
IVIARR	ווטע	GFIVI		HP	VOLT	PH	OPER WI (LDS)	WANDFACTORER & WODEL	NOIES	
CP-1A	DHWR	3	15	0.25	120	1	100	GRUNDFOS UP	1,2,3	
NOTES:	•					•	•			

1. GRUNDFOS, TACO, AND BELL AND GOSSETT ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

2. PROVIDE WITH AQUASTAT KIT.
3. PUMP TO BE SUITABLE FOR POTABLE WATER.

	PI	LUME	BING	FIXTU	RES		
MARK	DESCRIPTION	CW	HW	WASTE	VENT	VOLT	NOTES
DN-1	DOWNSPOUT NOZZLE, PERFORATED HINGED COVER	-	-	SEE PLAN	-	-	J.R. SMITH FIG.#1775
E1	EMERGENCY EYE WASH	1/2"	1/2"	1 1/2"	1 1/2"	-	EQUIPMENT BY OTHERS. REFER TO FURNITURE & EQUIPMENT PLANS + SCHEDULE
E7	ICE MAKER	1/2"	-	-	-	120	EQUIPMENT BY OTHERS. REFER TO FURNITURE & EQUIPMENT PLANS + SCHEDULE
E23	DISHWASHER	-	1/2"	-	-	120	EQUIPMENT BY OTHERS. REFER TO FURNITURE & EQUIPMENT PLANS + SCHEDULE
E49	DOG GROOMING TUB	1/2"	1/2"	2"	1 1/2"	-	EQUIPMENT BY OTHERS. REFER TO FURNITURE & EQUIPMENT PLANS + SCHEDULE
E61	EMERGENCY SHOWER AND EYE WASH STATION	1 1/4"	1 1/4"	2"	1 1/2"	-	EQUIPMENT BY OTHERS. REFER TO FURNITURE & EQUIPMENT PLANS + SCHEDULE
EWC-1	INDOOR BI-LEVEL ELECTRIC WATER COOLER, ADA, REFRIGERATED, FILTERED	1/2"	-	1 1/2"	1 1/2"	120	ELKAY LZSTL8WSSP
FD-1	FLOOR DRAIN, TRAP PRIMER CONNECTION, VANDAL-PROOF SECURED TOP	-	-	2"	1 1/2"	-	ZURN Z415S-DP
FS-1	FLOOR SINK, VERIFY GRATE SIZE W/ FLOOR SINK APPLICATION	-	-	3"	1 1/2"	-	ZURN Z1910
FS-2	FLOOR SINK, VERIFY GRATE SIZE W/ FLOOR SINK APPLICATION	-	-	4"	2"	-	ZURN Z1901
FUD-1	FUNNEL DRAIN WITH P-TRAP	-	-	3"	2"	-	ZURN Z1019
HB-1	AUTO DRAIN, NON-FREEZE WALL HYDRANT W/ INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION, "T" HANDLE KEY, BREAKER PLATE	3/4"	-	-	-	-	ZURN Z1321-C
HB-2	HOT & COLD WALL HYDRANT W/ INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION, "T" HANDLE KEY, BREAKER PLATE	3/4"	3/4"	-	-	-	WOODFORD B22
L-1	LAVATORY, WALL MOUNTED LAVATORY, ADA, BATTERY-POWERED FAUCET, MIXING VALVE (ASSE 1070), DRAIN ASSEMBLY	1/2"	1/2"	1 1/2"	1 1/2"	-	BASIN: ZURN Z5360-PED FAUCET: ZURN Z6915-XL MIXING VALVE: LEONARD 270-LF SET AT 110°F
RD-1	12" DIAMETER COMBINATION MAIN ROOF AND OVERFLOW DRAIN WITH LOW SILHOUETTE DOMES AND DOUBLE TOP-SET DECK PLATE	-	-	SEE PLAN	-	-	ZURN Z164
RH-1	ROOF HYDRANT, NO DRAIN LINE, BACKFLOW PREVENTOR, ROOF FLUSH MOUNT, 3/4" HOSE CONNECTION.	3/4"	-	-	-	-	PRIER P-RH1
S-1	BREAKROOM SINK, ADA, SINGLE COMPARTMENT, W/ FAUCET, DRAIN ASSEMBLY, 1/2 HP GARBAGE DISPOSER W/ CORD AND PLUG.	1/2"	1/2"	2"	1 1/2"	120	BASIN: ELKAY ELUHAD281655 FAUCET: ELKAY LKGT4083 DRAIN: ELKAY LK99 GARBAGE DISPOSER: BADGER 5
S-2	SINK, ADA, SINGLE COMPARTMENT, DRAIN ASSEMBLY, W/ FAUCET	1/2"	1/2"	2"	1 1/2"	-	BASIN: ELKAY ELUHAD211555PD FAUCET: ELKAY LKGT4083 DRAIN: ELKAY LK99
S-3	INTEGRAL SINK, 23-1/2"L X 18-1/4"W X 5-3/8"D	1/2"	1/2"	2"	1 1/2"	-	BASIS OF DESIGN: ONEPOINTE FAUCET: ZURN Z826U4-XL
S-4	INTEGRAL SINK 39"L X 18"W X 12"D	1/2"	1/2"	2"	1 1/2"	-	BASIS OF DESIGN: ONEPOINTE FAUCET: ZURN Z826U4-XL
SH-1	SHOWER, PRESSURE BALANCING MIXING VALVE, TEMPERATURE LIMIT STOPS, SHOWER PAN, SHOWER HEAD, DRAIN ASSEMBLY	1/2"	1/2"	2"	1 1/2"	-	TRIM & VALVE: DELTA T14267-LHD (LESS SHOWER HEAD), R10000-UNWS SHOWER HEAD: DELTA RP48590 LINEAR DRAIN: ZURN ZS880
SH-2	ADA, ROLL-IN SHOWER, PRESSURE BALANCING MIXING VALVE, TEMPERATURE LIMIT STOPS, TUB SPOUT, SHOWER HEAD, HAND HELD SHOWER W/ SHOWER HEAD, DIVERTER VALVE, DRAIN ASSEMBLY	1/2"	1/2"	2"	1 1/2"	-	TRIM & VALVE: DELTA T14267-LHD (LESS SHOWER HEAD), R10000-UNWS SHOWER HEAD: DELTA RP48590 HAND HELD SHOWER: DELTA 55424 LINEAR DRAIN: ZURN ZS880
SH-3	ADA, ROLL-IN SHOWER, PRESSURE BALANCING MIXING VALVE, TEMPERATURE LIMIT STOPS, TUB SPOUT, SHOWER HEAD, HAND HELD SHOWER W/ SHOWER HEAD, DIVERTER VALVE, DRAIN ASSEMBLY, VERIFY FINAL PAN SIZE	1/2"	1/2"	2"	1 1/2"	-	TRIM & VALVE: DELTA T14267-LHD (LESS SHOWER HEAD), R10000-UNWS SHOWER HEAD: DELTA RP48590 HAND HELD SHOWER: DELTA 55424 LINEAR DRAIN: ZURN ZS880
SOI-1	500 GALLON SAND/OIL INTERCEPTOR, TRAFFIC RATED COVER	-	-	4"	2"	-	OLDCASTLE PRECAST
SS-1	SERVICE SINK, VACUUM BREAKER FAUCET, HOSE HOLDER, MOP HANGER, WALL GUARD	1/2"	1/2"	3"	2"	-	BASIN: E.L. MUSTEE & SONS 62M FAUCET: E.L. MUSTEE & SONS 63.600A
TD-1	TRENCH DRAIN, TRAFFIC RATED, PROVIDE P-TRAP AT TRENCH DRAIN OUTLET WITH TRAP PRIMER, TRENCH DRAIN COMES IN 80" SECTIONS, REFER TO FLOOR PLAN FOR NUMBER OF SECTIONS	-	-	4"	2"	-	ZURN Z886
WB-1	ICE MAKER WALL BOX, GALVANIZED METAL	1/2"	-	-	-	-	RATED: GUY GRAY FR-12 NOT RATED: GUY GRAY BIM875
WB-2	WASHING MACHINE BOX, GALVANIZED METAL	1/2"	1/2"	2"	1 1/2"	-	RATED: GUY GRAY FR-12 NOT RATED: GUY GRAY B200
WC-1	ADA WATER CLOSET, FLOOR MOUNTED, BATTERY POWERED FLUSH VALVE, W/ OPEN SEAT W/O COVER	1"	-	3"	2"	-	BOWL: KOHLER K-96057 FLUSH VALVE: AMERICAN STANDARD 6065.121.002
WC-2	ADA WATER CLOSET, FLOOR MOUNTED, REMOTE FLUSHOMETER, W/OPEN SEAT W/O COVER	1"	-	3"	2"	-	BOWL: KOHLER K-96057 FLUSHOMETER: SLOAN ROYAL 952
YD-1	YARD HYDRANT, FREEZELESS W/ BACKFLOW PREVENTOR	1"	-	-	-	-	WOODFORD Y2

NOTES:

1. THE FOLLOWING FLOOR SINK GRATES TO BE INSTALLED FOR THE APPROPRIATE APPLICATION: FULL GRATE: FLOOR SINK WITHOUT INDIRECT DRAIN PIPE. 3/4 GRATE: FLOOR SINK WITH ONE INDIRECT DRAIN PIPE, 1/2 GRATE: FLOOR SINK WITH MULTIPLE INDIRECT DRAIN PIPES, NO GRATE: FLOOR SINK WITH MORE THAN (5) INDIRECT DRAIN PIPES.

2. NOT ALL PLUMBING FIXTURES IN THE SCHEDULE MAY BE USED. REFER TO FLOOR PLANS FOR EXACT PLUMBING FIXTURE TAGS.

FIXTURE	MAX FLOW RATE
SINKS	2.2 GPM
SHOWER HEADS	2.5 GPM
WATER CLOSETS	1.6 GAL/FLUSH
METERING FAUCETS	0.25 GAL/CYCLE
NOTES: A. FIXTURES EXCLUDED: CLINICAL SINKS SERVICE SINKS	s, LAUNDRY TRAYS, AND

ALL EQUIPMENT SELECTED AT SITE ELEVATION (4700') UNLESS NOTED OTHERWISE.



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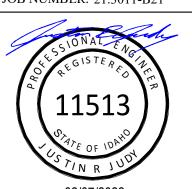
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**IDAHO FALLS HEADQUARTERS** - AUXILIARY **BUILDING** 

IDAHO FALLS, ID

Project No. 1047-20

Revisions:

**BID ISSUE** 

Issue Date:

Drawn by:

Checked by:

2022.02.10

**PLUMBING SCHEDULES** 

COORDINATE ALL ELECTRICAL AND CONTROL REQUIREMENTS WITH ELECTRICIAN. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

CONTRACTOR TO CONDUCT A FIRE FLOW TEST FOR THIS SITE. OTHER CITY TESTS IN ADJACENT AREAS HAVE SHOWN 65 PSI DESIGN PRESSURE. SYSTEM DESIGN TO BE IN ACCORDANCE WITH THE NEW FIRE FLOW TEST RESULTS.

D. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR THE DETECTION AND ACTIVATION OF THE SYSTEM TO BE COMPATIBLE WITH THE VALVES AND EQUIPMENT FOR THE FIRE PROTECTION SYSTEM.

E. CLOSELY COORDINATE ALL FIRE PROTECTION WITH ELECTRICAL, MECHANICAL, PLUMBING, ARCHITECTURAL, AND STRUCTURAL. COORDINATE FIRE LINE STUB REQUIREMENTS IN FIRE RISER ROOM WITH GENERAL CONTRACTOR/FIRE PROTECTION CONTRACTOR. PIPING IS APPROXIMATE AND DIAGRAMMATIC AND IS NOT TO BE SCALED. PROVIDE ALTERNATE ROUTING, OFFSETS, AND TRANSITIONS AS REQUIRED FOR COORDINATION OF ALL WORK WITHOUT ADDITIONAL COST TO THE OWNER.

F. FIELD VERIFY ALL FIRE PROTECTION PIPE ROUTING PRIOR TO COMMENCING NEW WORK. DO NOT FABRICATE OR INSTALL ANY PIPING/EQUIPMENT BEFORE VERIFYING

DIMENSIONS AND ROUTING WITH BUILDING CONDITIONS AND ALL OTHER TRADES. G. IF DISCREPANCIES EXIST BETWEEN BUILDING CODES, DRAWINGS, NOTES, AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT WILL BE REQUIRED UNLESS CLARIFIED BY PROJECT ENGINEER IN AN OFFICIAL ADDENDUM OR SUPPLEMENTAL

# **PLAN NOTES**

A. THE FIRE SPRINKLER SYSTEM WILL BE DESIGNED AND INSTALLED BY A LICENSED DESIGN-BUILD FIRE SPRINKLER CONTRACTOR. THE BUILDING WILL BE FULLY SPRINKLERED AND THE SYSTEM WILL BE HYDRAULICALLY CALCULATED. REFER TO ALL ARCHITECTURAL FLOOR PLANS, ELEVATIONS, SECTIONS, ETC TO DETERMINE PIPING ROUTING CONSTRAINTS, WALL AND CEILING RATINGS, AND TO DETERMINE CORRECT OCCUPANCY CLASSIFICATIONS.

B. INSTALL ALL FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH THE ADOPTED VERSION OF THE INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL ENERGY CONSERVATION CODE, UNIFORM PLUMBING CODE, NATIONAL FIRE PROTECTION ASSOCIATION CODES AND STANDARDS, AND ALL OTHER LOCAL CODES AND ADOPTED ORDINANCES.

C. THE ENTIRE BUILDING WILL BE FULLY SPRINKLERED AND WILL ADHERE TO THE FOLLOWING **DESIGN PARAMETERS:** 1. CEILING MOUNTED SPRINKLER HEADS WILL BE WHITE, CONCEALED PENDENT, QUICK

RESPONSE, STANDARD COVERAGE HEADS. 2. SPRINKLERS LOCATED IN SPACES WITHOUT CEILINGS WILL BE UPRIGHT SPRINKLERS

WITH BRASS FINISH. 3. ALL THREADED PIPING FOR WET SYSTEMS WILL BE SCHEDULE 40 BLACK STEEL AND ALL GROOVED PIPE WILL BE SCHEDULE 10 BLACK STEEL.

4. A DOUBLE INTERLOCK PRE-ACTION SPRINKLER SYSTEM WILL BE PROVIDED TO PROTECT THE SERVER ROOM ON THE UPPER FLOOR OF THE HEADQUARTERS BUILDING.

# **KEYNOTES**

F1 REFER TO CIVIL FOR CONTINUATION OF FIRE SPRINKLER PIPING. COORDINATE FINAL RISER LOCATION WITH GENERAL CONTRACTOR/ARCHITECT. COORDINATE FIRE LINE SIZE AND RISER REQUIREMENTS WITH GENERAL CONTRACTOR.

F2 PROVIDE FIRE DEPARTMENT CONNECTION. FDC LOCATION IS TO BE APPROVED BY THE FIRE DEPARTMENT PRIOR TO INSTALLATION. FDC TO BE PROVIDED WITH CHECK VALVE.

F5 PROVIDE FIRE RISER. A MINIMUM OF 36" CLEARANCE IS TO BE PROVIDED AROUND RISER.



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**IDAHO FALLS POLICE HEADQUARTERS** 

IDAHO FALLS, ID

1047-20

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**BID ISSUE** 

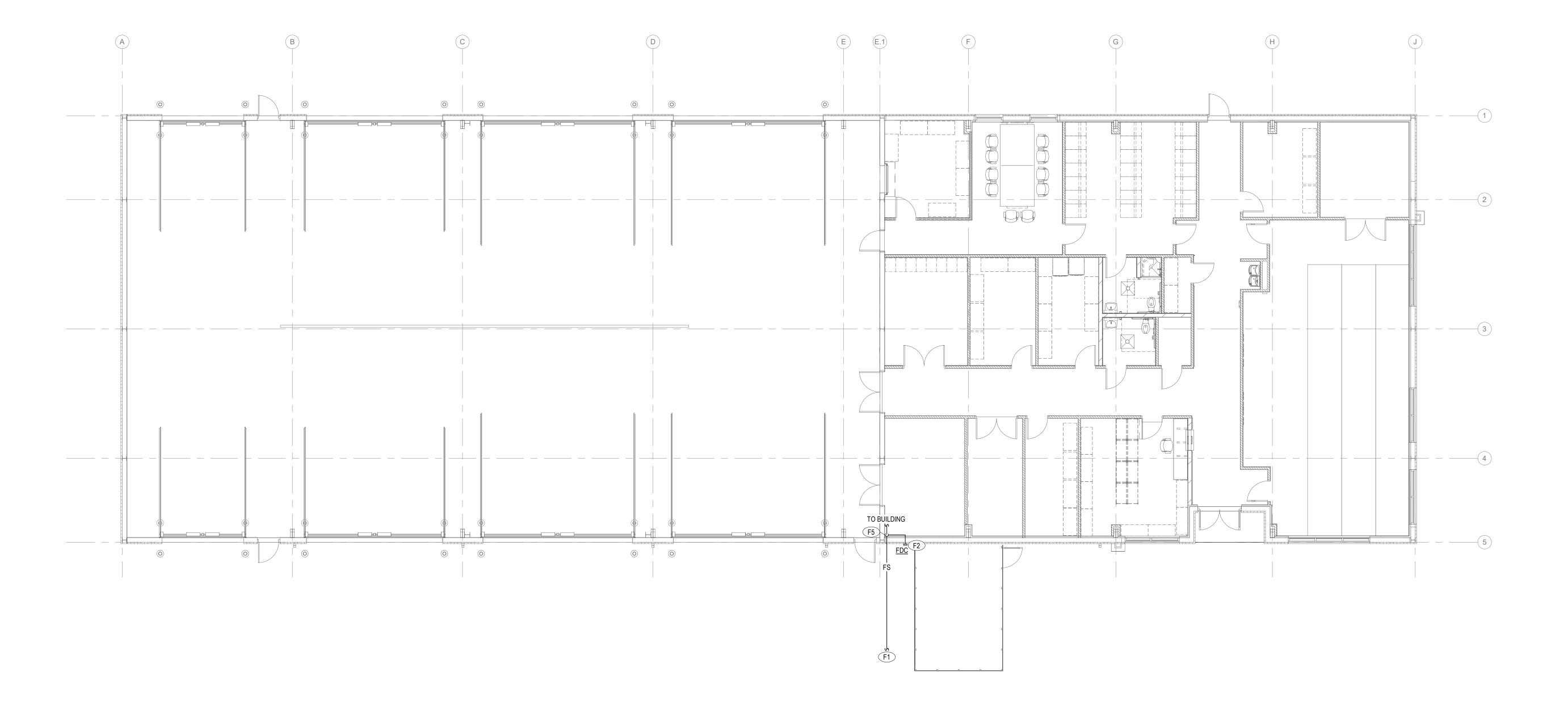
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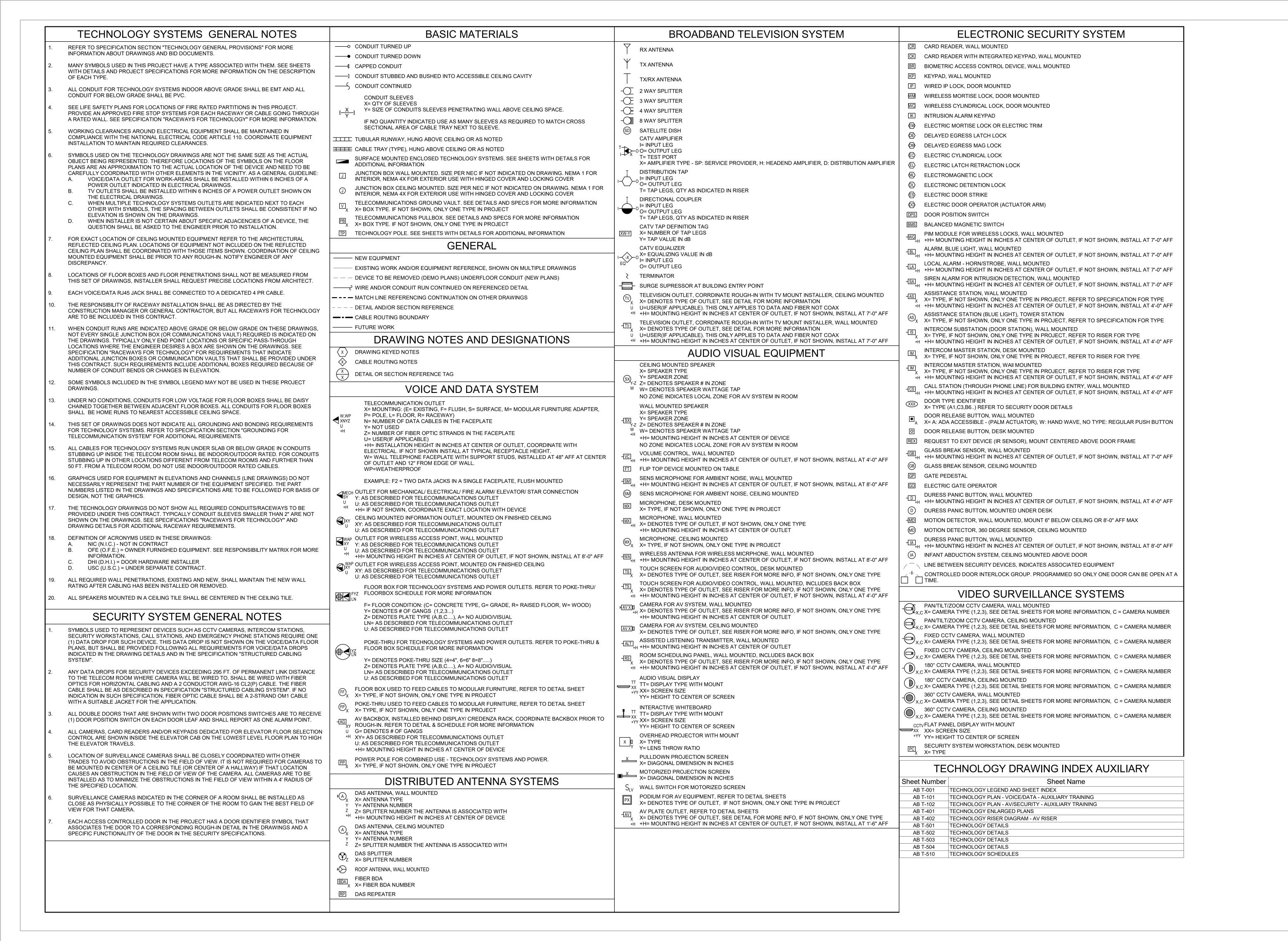
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**AUXILIARY BUILDING FIRE** SPRINKLER FLOOR **PLAN** 

**AB FS-111** 





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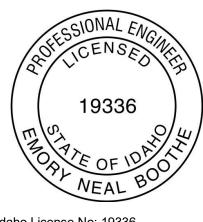
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- AUXILIARY
BUILDING

IDAHO FALLS, ID

Project No. **1047-20A** 

Revisions:

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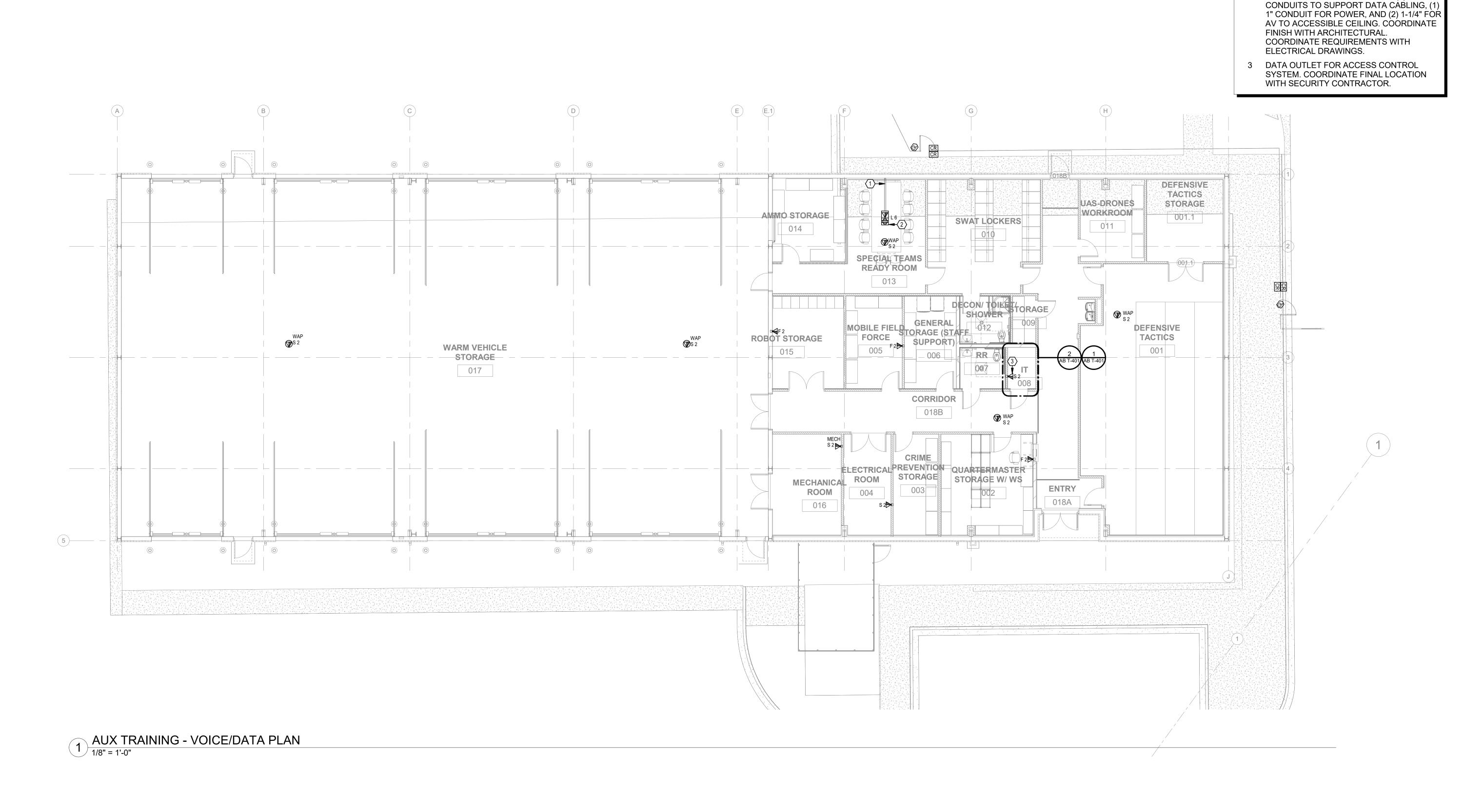
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TECHNOLOGY LEGEND AND SHEET INDEX SJS

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PROVIDE (1) 1-1/4" CONDUIT TO

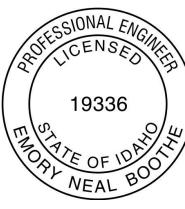
ACCESSIBLE CEILING FOR AV CABLING.

2 PROVIDE 4-GANG FLOOR BOX FOR POWER

AND DATA (LEGRAND EVOLUTION EFB6S WITH DECORA KEYSTONE INSERT FOR DROPS SHOWN AND PASTHRU FOR AV CABLE) SUITABLE TO SUPPORT DROPS SHOWN ON DRAWING. PROVIDE (2) 1"

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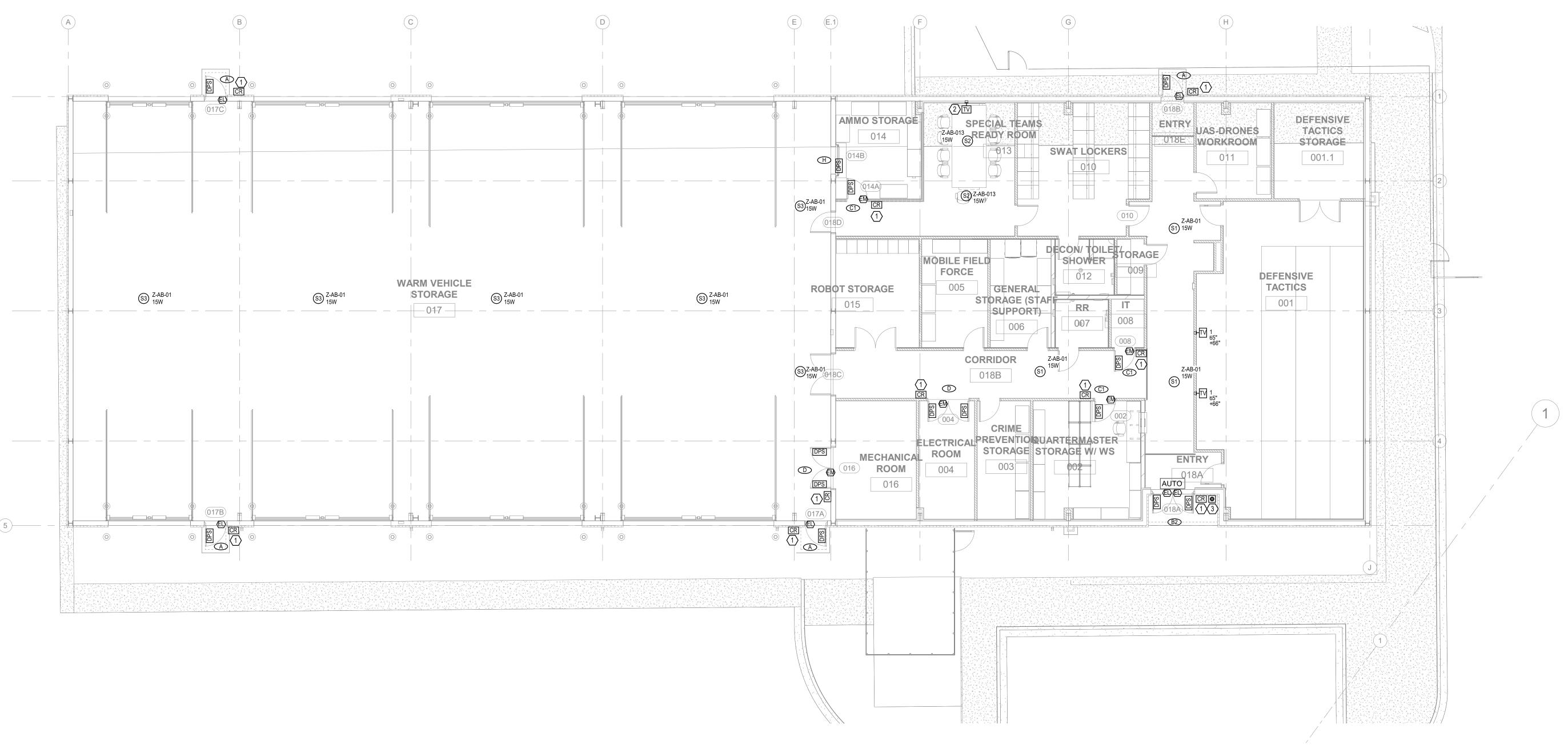


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TECHNOLOGY PLAN
- VOICE/DATA AUXILIARY
TRAINING

1 PROVIDE AND INSTALL WALL SWITCH STYLE CONTACTLESS SMART CARD READER. DESIGN SELECTION: HID ICLASS SE R40

- 2 PROVIDE (1) CAT 6A CABLE IN 1" CONDUIT BACK TO TELECOM ROOM 008. PROVIDE WALL MOUNTING BRACKET AND IN-WALL STORAGE. DESIGN SELECTION: CHIEF LTM1U AND PAC525F OR APPROVED EQUAL. PROVIDE 1-1/4" CONDUIT TO ACCESSIBLE CEILING FOR AV CABLING. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.
- 3 PROVIDE AND INSTALL WALL MOUNTED ADA AUTO DOOR ACTUATOR BUTTON.



1 AUX TRAINING - AV/SECURITY PLAN
1/8" = 1'-0"

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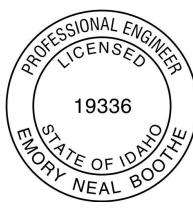
lan A. Reeves, A.I.A. Susan M. Gantt, A.I.A., LEED AP Rodney McManus, LEED AP Fred Rambo, R.A.

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**IDAHO FALLS POLICE HEADQUARTERS** - AUXILIARY **BUILDING** 

IDAHO FALLS, ID

1047-20A

Revisions:

**BID ISSUE** 

Issue Date: 2022.02.10

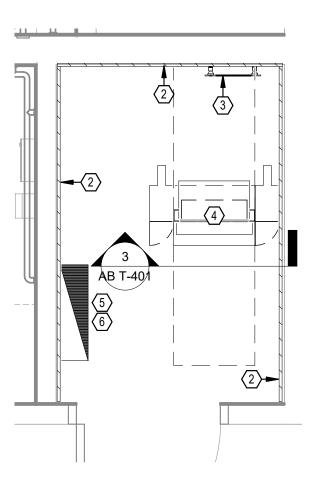
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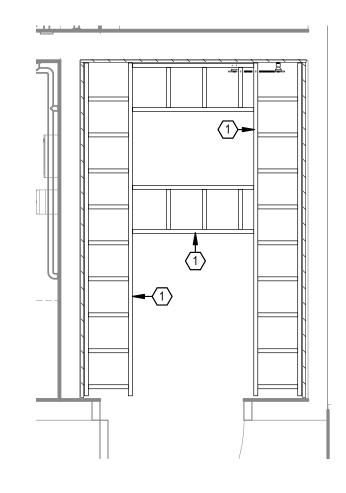
Project North:

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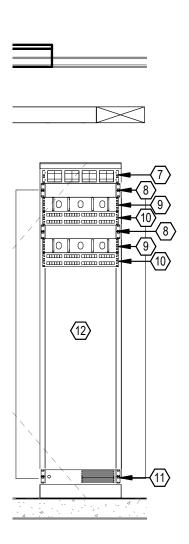
**TECHNOLOGY PLAN** - AV/SECURITY -**AUXILIARY TRAINING** 



1 ENLARGED PLAN - EQUIPMENT - IDF 008



2 ENLARGED PLAN - CABLE TRAY - IDF 008



3 RACK ELEVATION - IDF 008
1/2" = 1'-0"

PLAN NOTES

- 1 PROVIDE 12" WIDE TELECOMMUNICAITONS LADDER RACK MOUNTED 96" AFF. AT EACH TELECOMMUNICATIONS RACK VERTICAL CABLE MANAGER PROVIDE WATERFALL FOR CABLE SUPPORT.
- 2 PROVIDE MINIMUM 8' HIGH, 3/4" THICK PLYWOOD BACKBOARD PAINTED WITH FIRE RETARDANT PAINT. MOUNTED AT 6" A.F.F TO BOTTOM
- 3 PROVIDE TELECOMMUNICATIONS GROUNDING BUSBAR. CONNECT TO MAIN TELECOMMUNICATIONS GROUNDING BUSBAR WITH TELECOMMUNICATIONS BONDING BACKBONE CONDUCTOR. BOND ALL METALLIC COMPONENTS IN ROOM TO BUSBAR WITH 6AWG CONDUCTOR AND TWO HOLE LUG COMPRESSION CONNECTORS.
- 4 PROVIDE 19" WIDE X 84" TALL 2-POST IT EQUIPMENT RACK WITH 6" DOUBLE SIDED (FRONT/BACK) VERTICAL CABLE MANAGERS.
- 5 PROVIDE ENCLOSURE FOR MERCURY BASED ACCESS CONTROL SYSTEM. SYSTEM TO INTEGRATE INTO OWNER'S EXISTING ACCESS CONTROL SYSTEM. PROVIDE (1) DEDICATED 20 AMP CIRCUIT TO LOCATION SHOWN. PROVIDE ENCLOSURE SIZED TO FIT BOARDS TO SUPPORT EQUIPMENT SHOWN ON FLOOR PLAN. DESIGN SELECTION: LENEL.
- 6 PROVIDE 24VDC DOOR HARDWARE POWER SUPPLY. COORDINATE WITH ELECTRICAL TO PROVIDE (1) DEDICATED 20 AMP CIRCUIT TO LOCATION SHOWN. COORDINATE WITH FIRE ALARM VENDOR TO PROVIDE AN INPUT FROM FIRE ALARM TO THIS LOCATION.
- 7 PROVIDE RACK MOUTED 2RU FIBER CONNECT PANEL.
- 8 OWNER PROVIDED OWNER INSTALLED NETWORK SWITCH.
- 9 PROVIDE HORIZONTAL 2RU WIRE MANAGEMENT BAR.
- 10 PROVIDE 48 PORT CAT 6A PATCH PANEL.
- 11 PROVIDE SMART UPS. BASIS OF DESIGN APC SMART UPS SRT3000XLA.
- 12 RACK SPACE FOR OWNER NETWORK EQUIPMENT.

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Architects Design Group

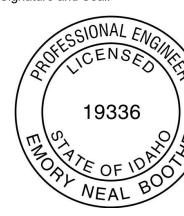
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- AUXILIARY
BUILDING

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**1047-20A**Revisions:

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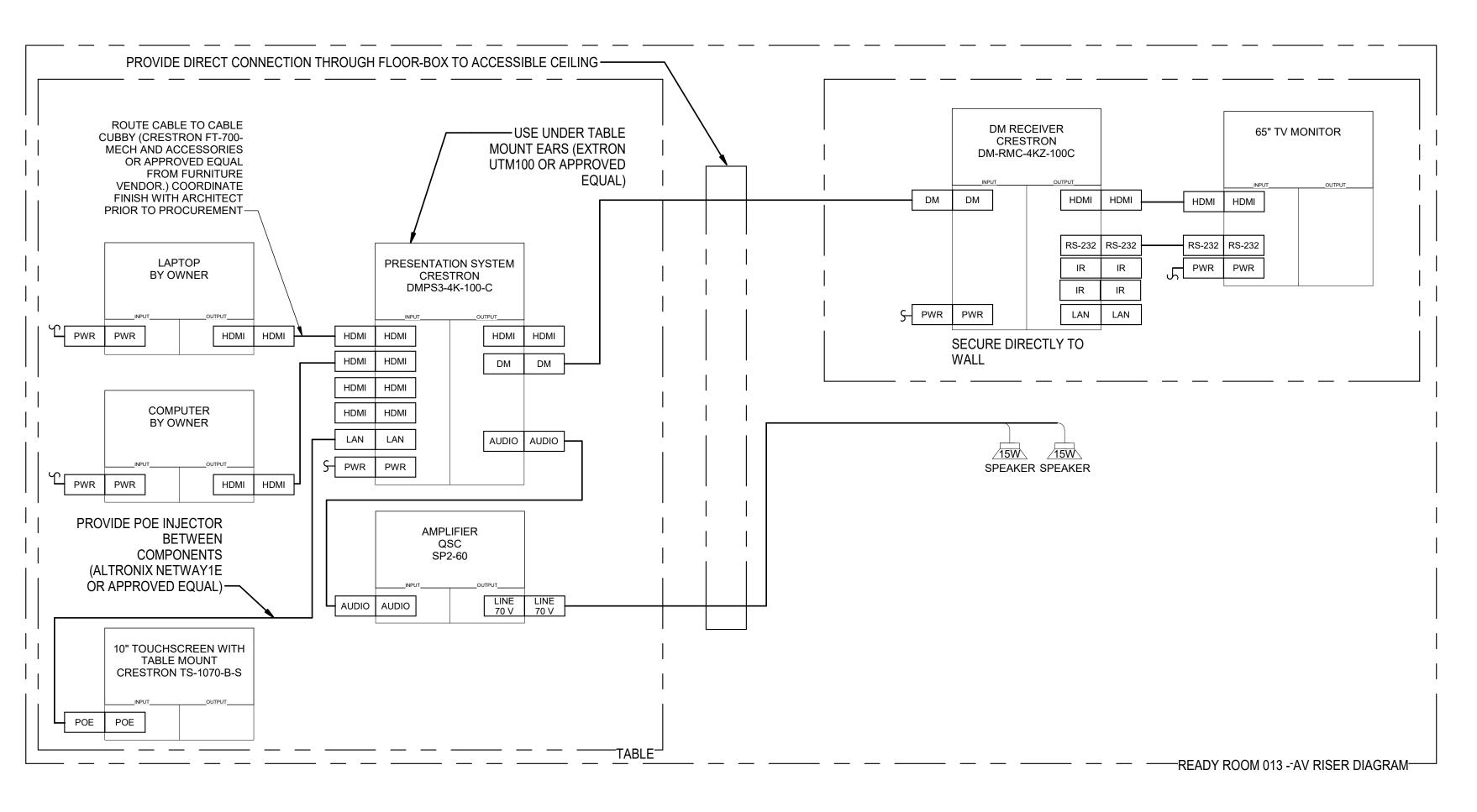
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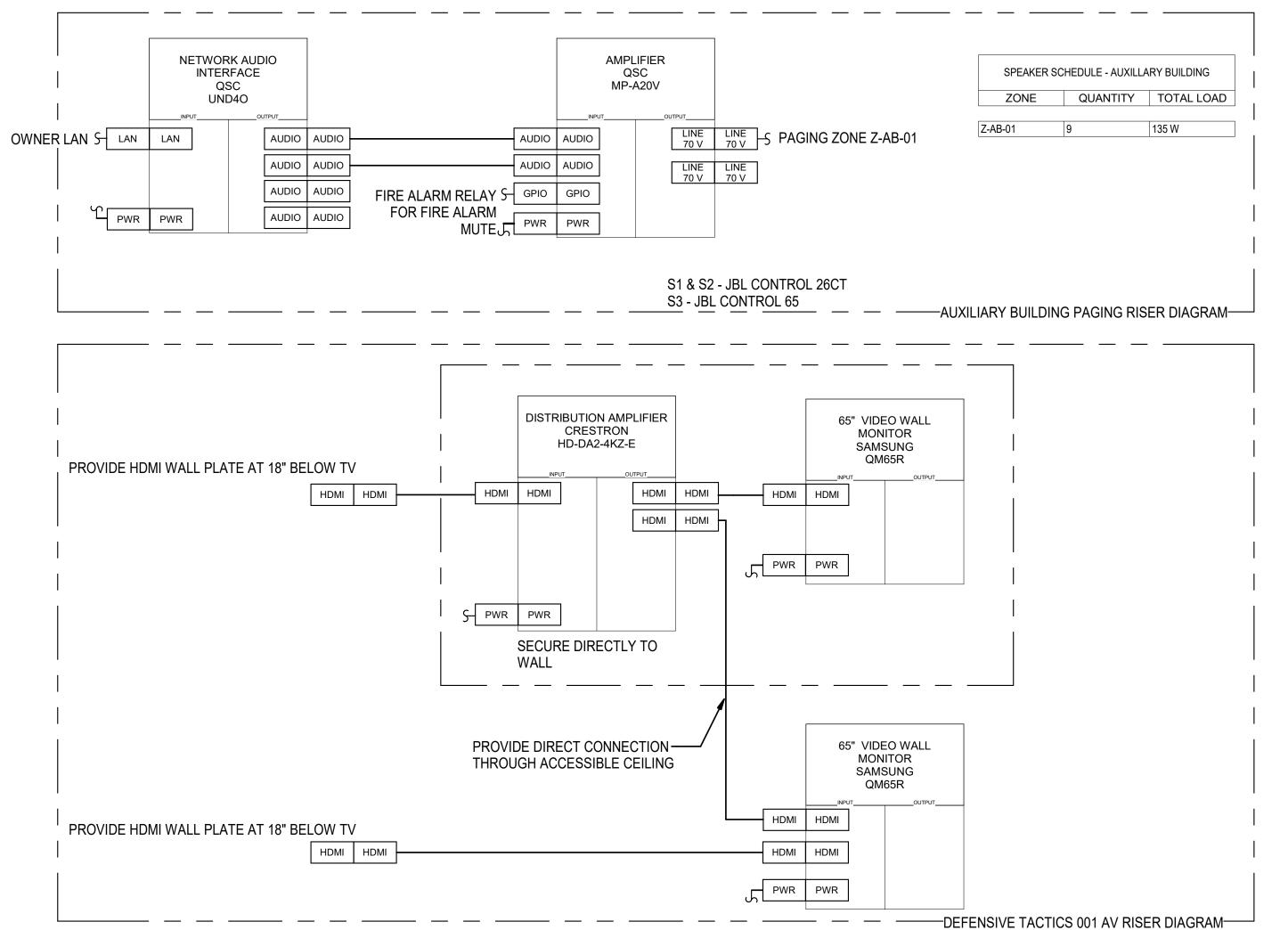
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TECHNOLOGY ENLARGED PLANS

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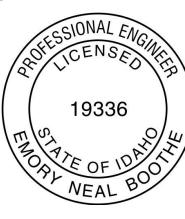
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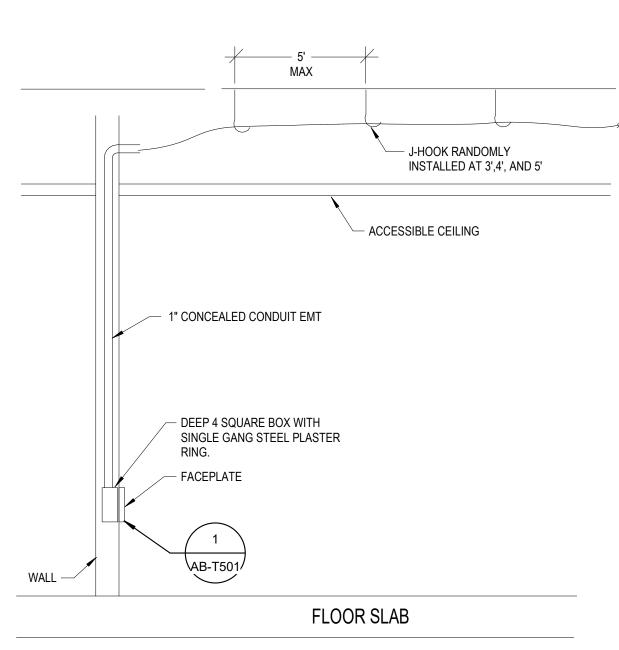
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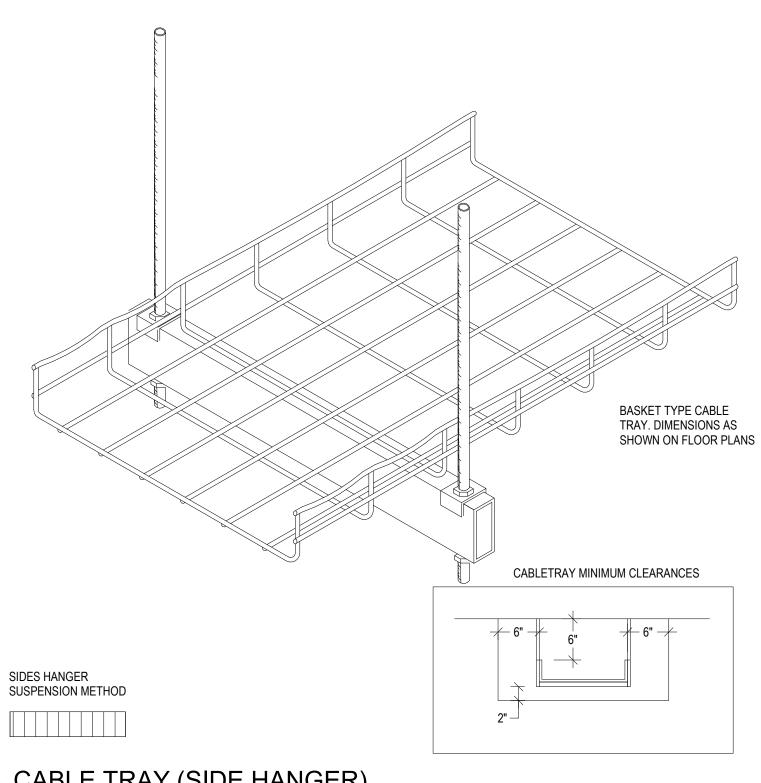
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TECHNOLOGY RISER DIAGRAM -AV RISER

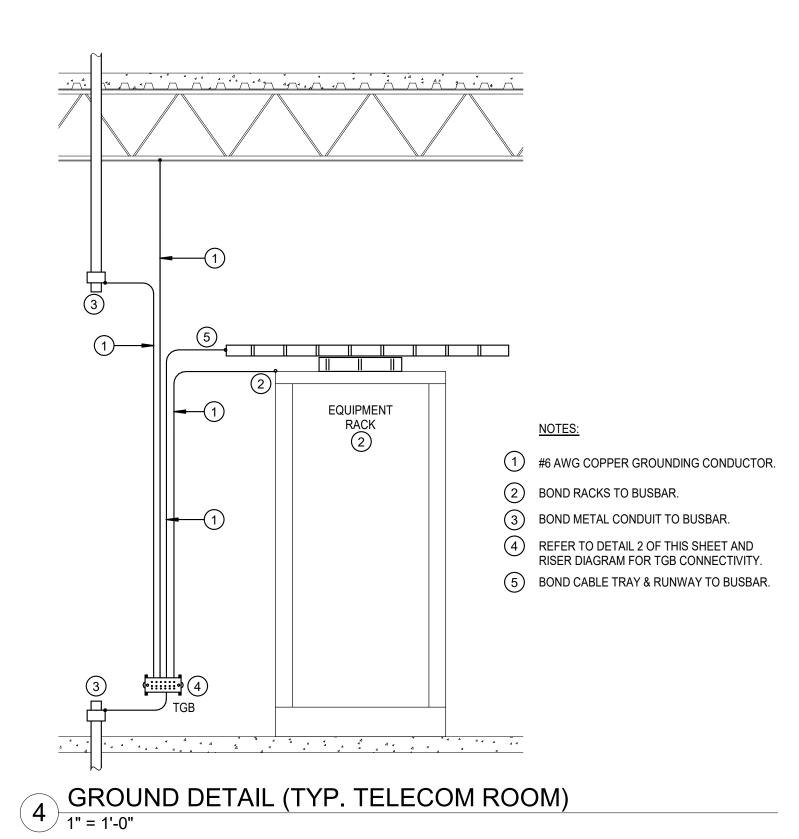
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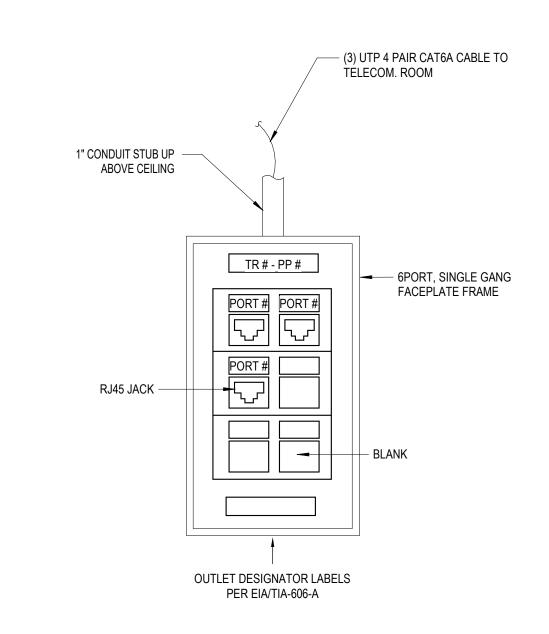






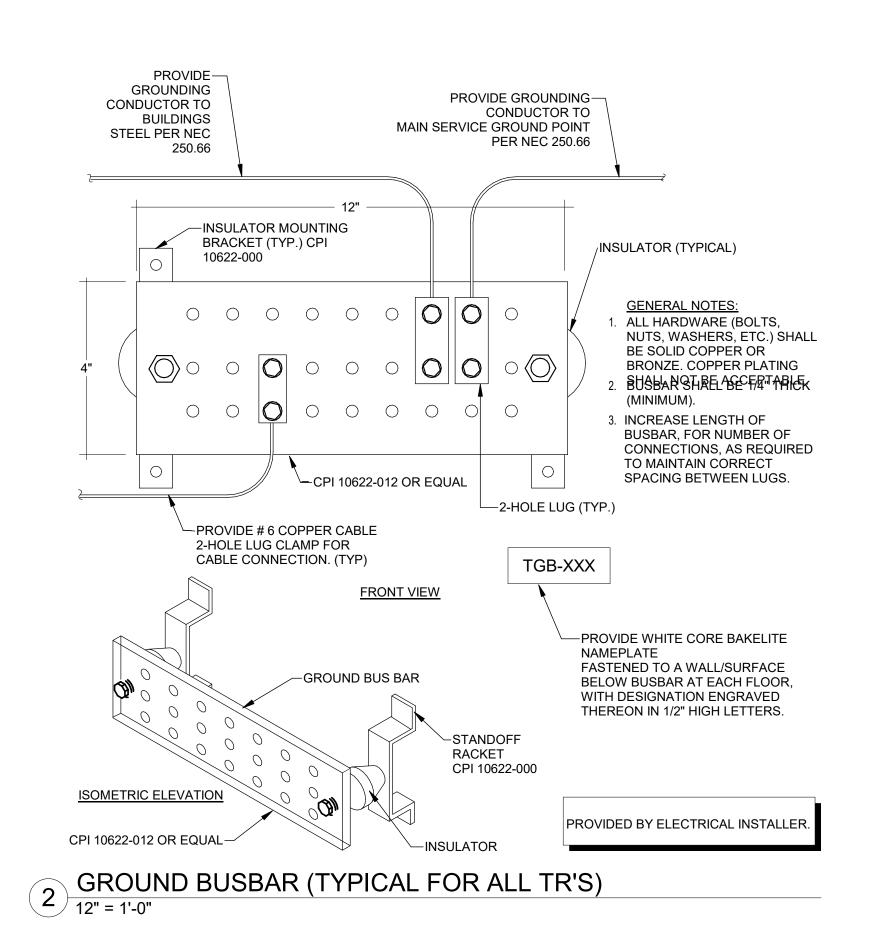








1 WALL MOUNTED OUTLET - VOICE/DATA
12" = 1'-0"

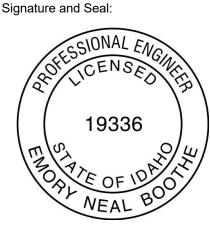




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IDAHO FALLS, ID

Project No. 1047-20A

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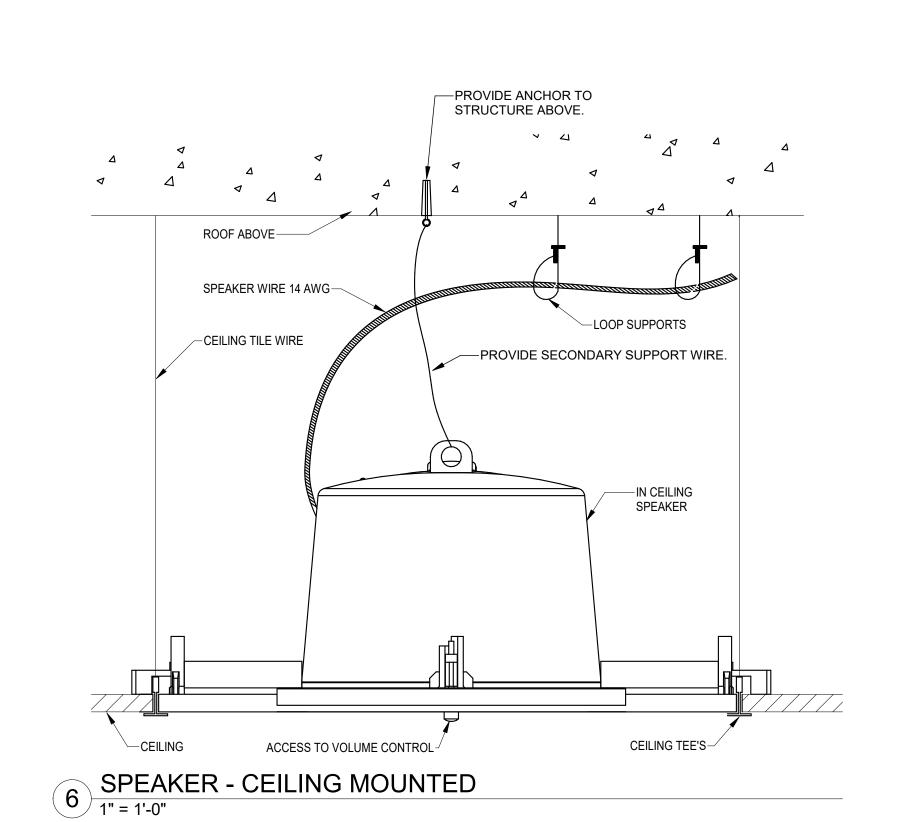
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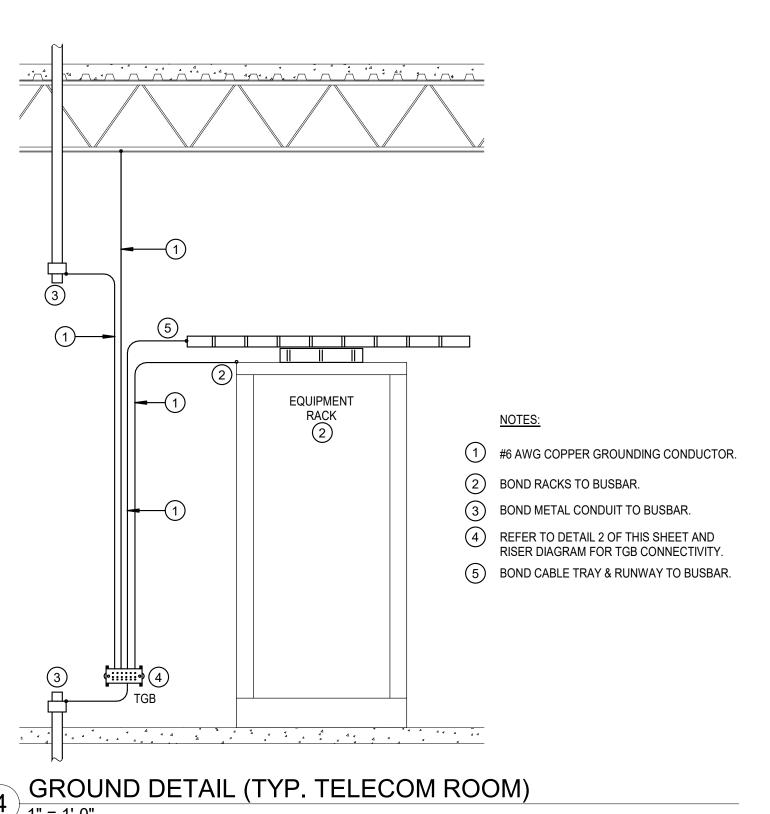
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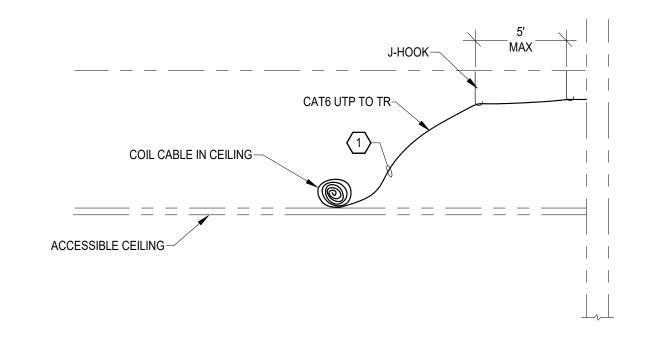
**Author** 

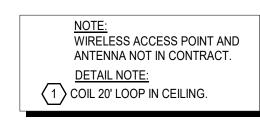
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**TECHNOLOGY DETAILS** 





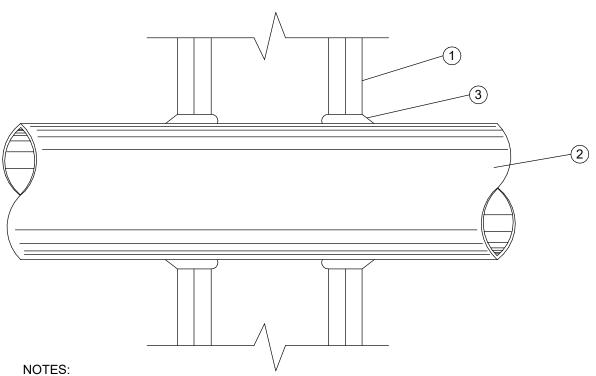






WIRELESS ACCESS POINT (COILED IN CEILING)

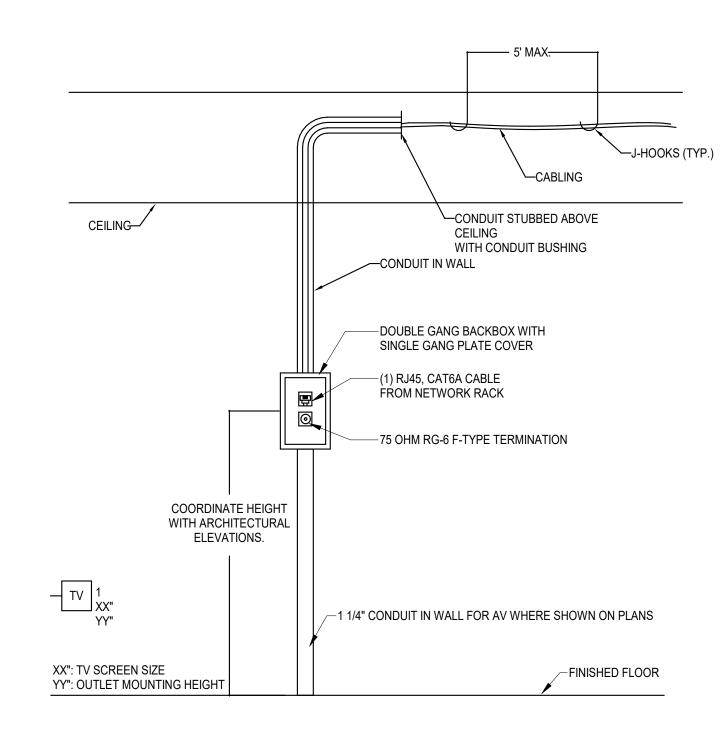
1" = 1'-0"



- WALL ASSEMBLY THE 1, 2, 3, OR 4 HOUR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY.
- CONDUIT NOM 4" DIA OR SMALLER STEEL ELECTRICAL METALLIC TUBING. A MAX OF ONE CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
- FILL VOID OR CAVITY MATERIAL CAULK FILL MATERIAL BEARING THE UL CLASSIFICATION MARKING INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4" DIAM BEAD OF CAULK APPLIED TO PERIMETER OF CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

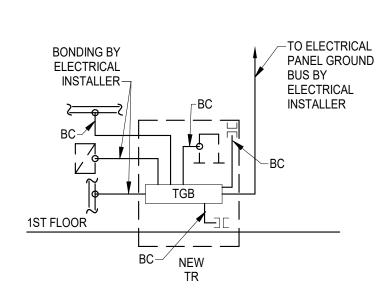
MAX CONDUIT DIAM, IN.	Γ ANNULAR SPACE, IN.	, FRATING, HR.	T RATING, HE
1	0 TO 3/16	1 OR 2	0, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1-1/2	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0
-			0





1 TYPE "1" TV OUTLET

TBB LENGTH LINEAR M (FT)	TBB SIZE AWG
LESS THAN 4 (13)	6
4-6 (14-20)	4
6-8 (21-26)	3
8-10 (27-33)	2
10-13 (34-41)	1
13-16 (42-52)	1/0
16-20 (53-66)	2/0
GREATER THAN 20 (66)	3/0



		ABBREVIATION SCHEDULE
	ВСТ	BONDING CONDUCTOR FOR TELECOMMUNICATIONS.
	TR	TELECOMMUNICATIONS ROOM.
	TEF	TELECOMMUNICATIONS ENTRANCE FACILITY.
	TER	TELECOMMUNICATIONS EQUIPMENT ROOM.
	TBB	TELECOMMUNICATIONS BONDING BACKBONE.
	ВС	BONDING CONDUCTOR. SHALL BE #6 AWG. UNLESS OTHERWISE NOTED BY COMMUNICATIONS CABLING INSTALLER.
	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR.
	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.
		RACK CONNECTION.
		ELECTRICAL PANELBOARD SERVING EQUIPMENT IN THIS COMM ROOM.
	0	CABLE BOND CONNECTIONS MADE W/U.L. LISTED BONDING CONNECTION FASTENERS.
	<b>==</b>	CABLE TRAY CONNECTION
		METAL FRAME OF BUILDING CONNECTION.
	][	CONDUIT/SLEEVES.
-		

2 GROUNDING AND BONDING DIAGRAM
1" = 1'-0"

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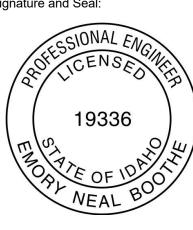
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- AUXILIARY
BUILDING

IDAHO FALLS, ID

Project No. **1047-20A** 

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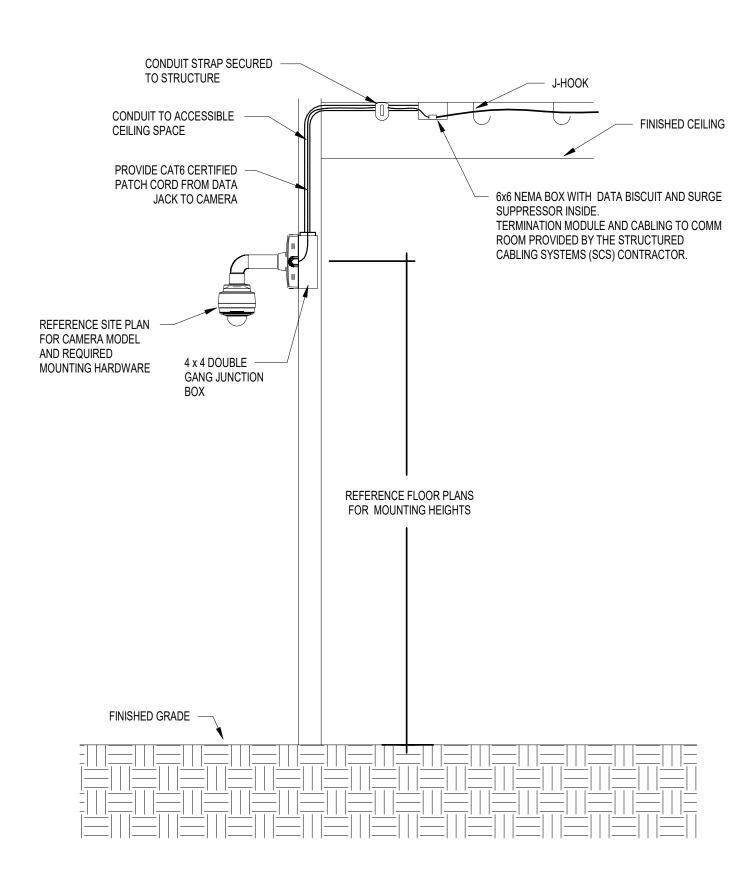
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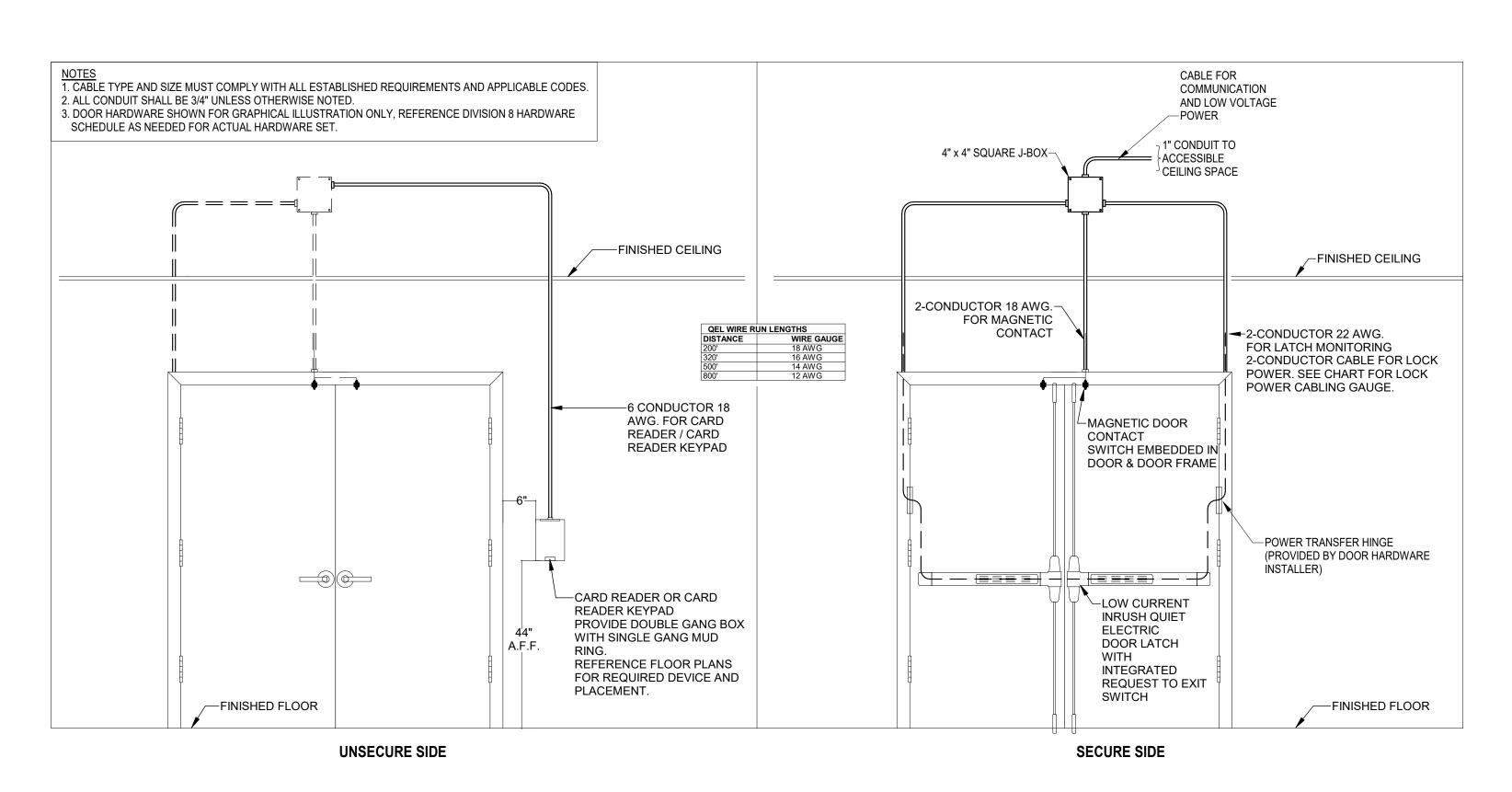
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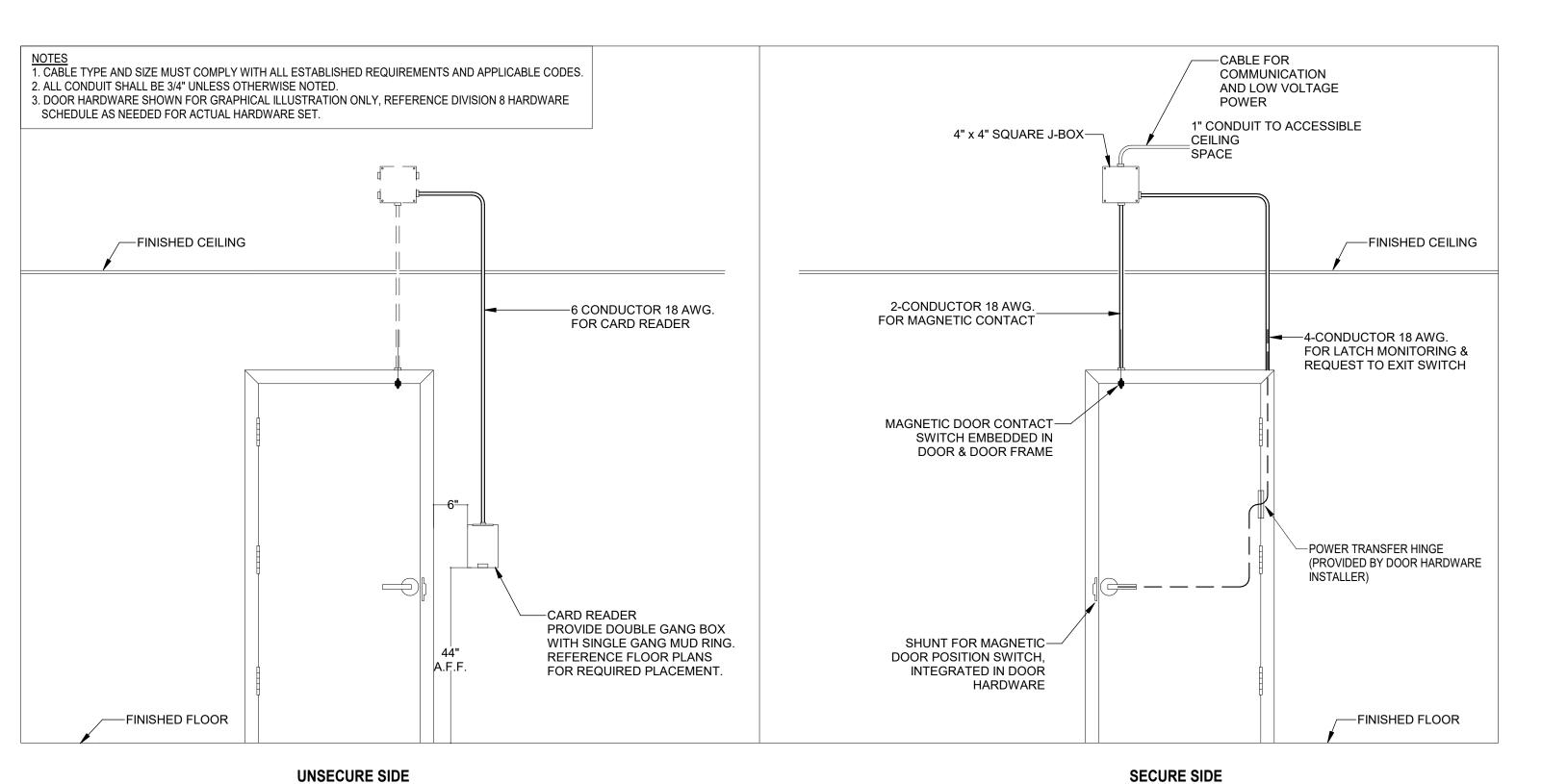
TECHNOLOGY DETAILS



EXTERIOR WALL MOUNTED DOME CAMERA - AUX BUILDING



# DOOR TYPE B2 - DOUBLE DOOR WITH QUIET ELECTRIC LATCH WITH CARD READER - AUX BUILDING 1 WITH 1" = 1'-0"



DOOR TYPE C1 - SINGLE DOOR WITH ELECTRIC MORTISE LOCK WITH CARD READER - AUX BUILDING

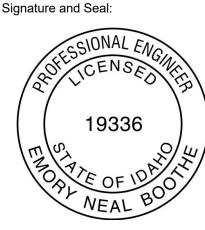
1" = 1'-0"

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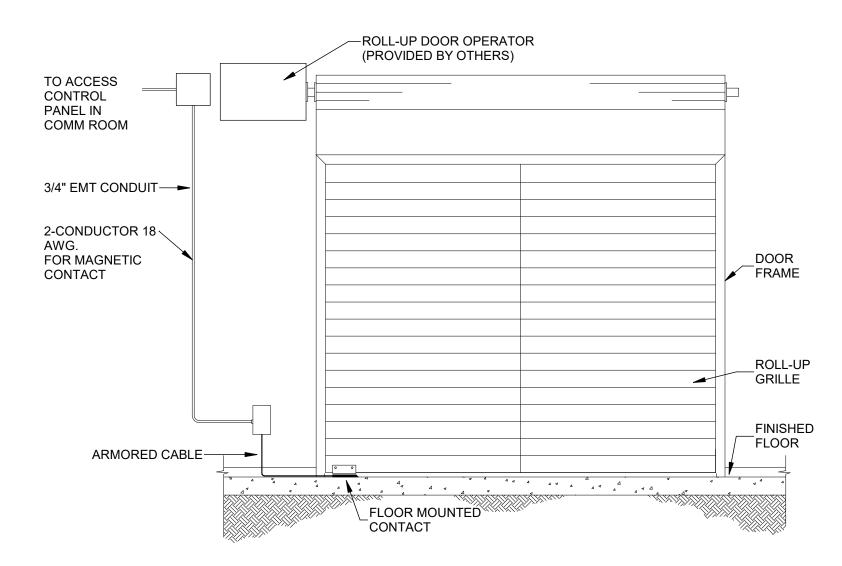
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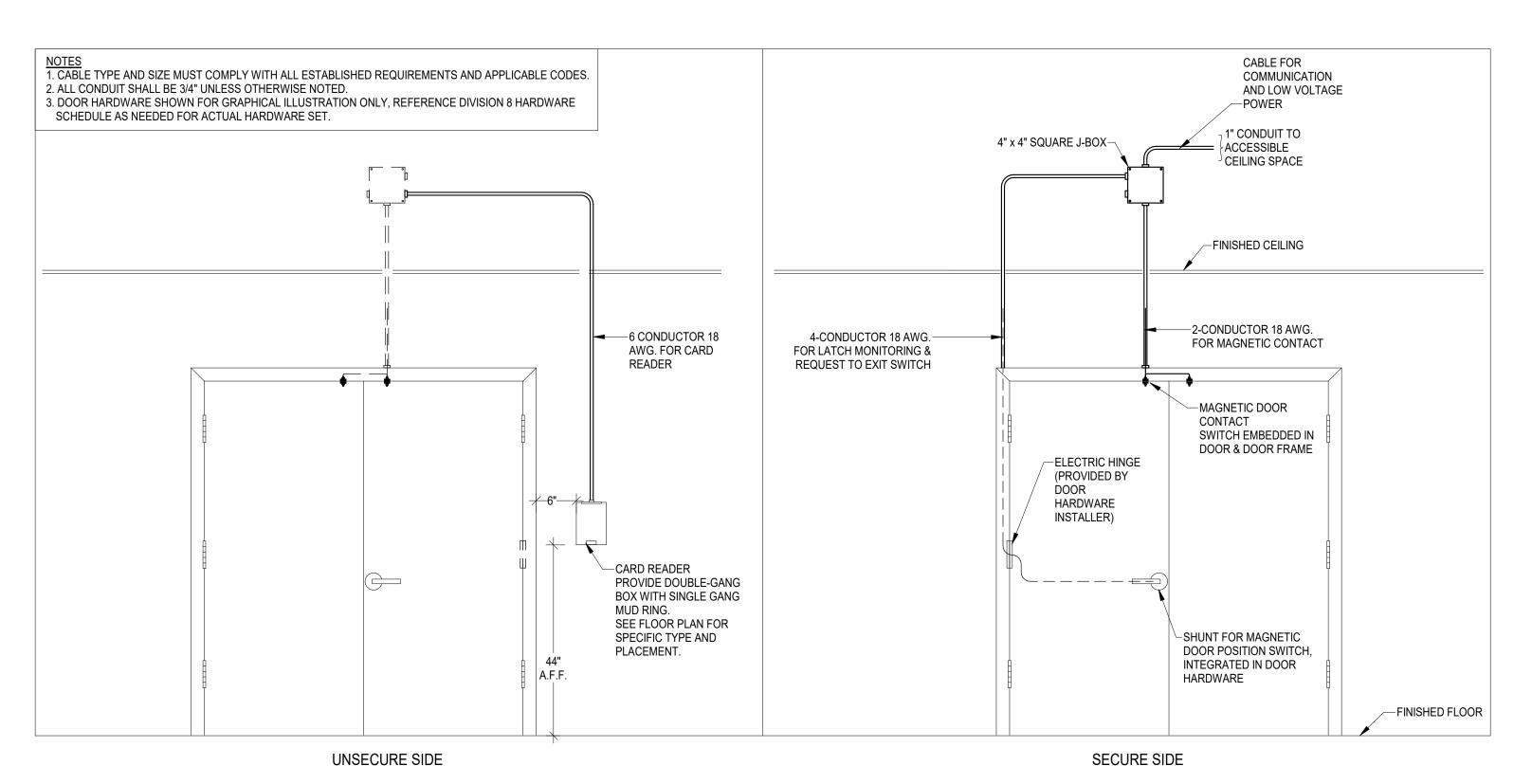
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**TECHNOLOGY DETAILS** 

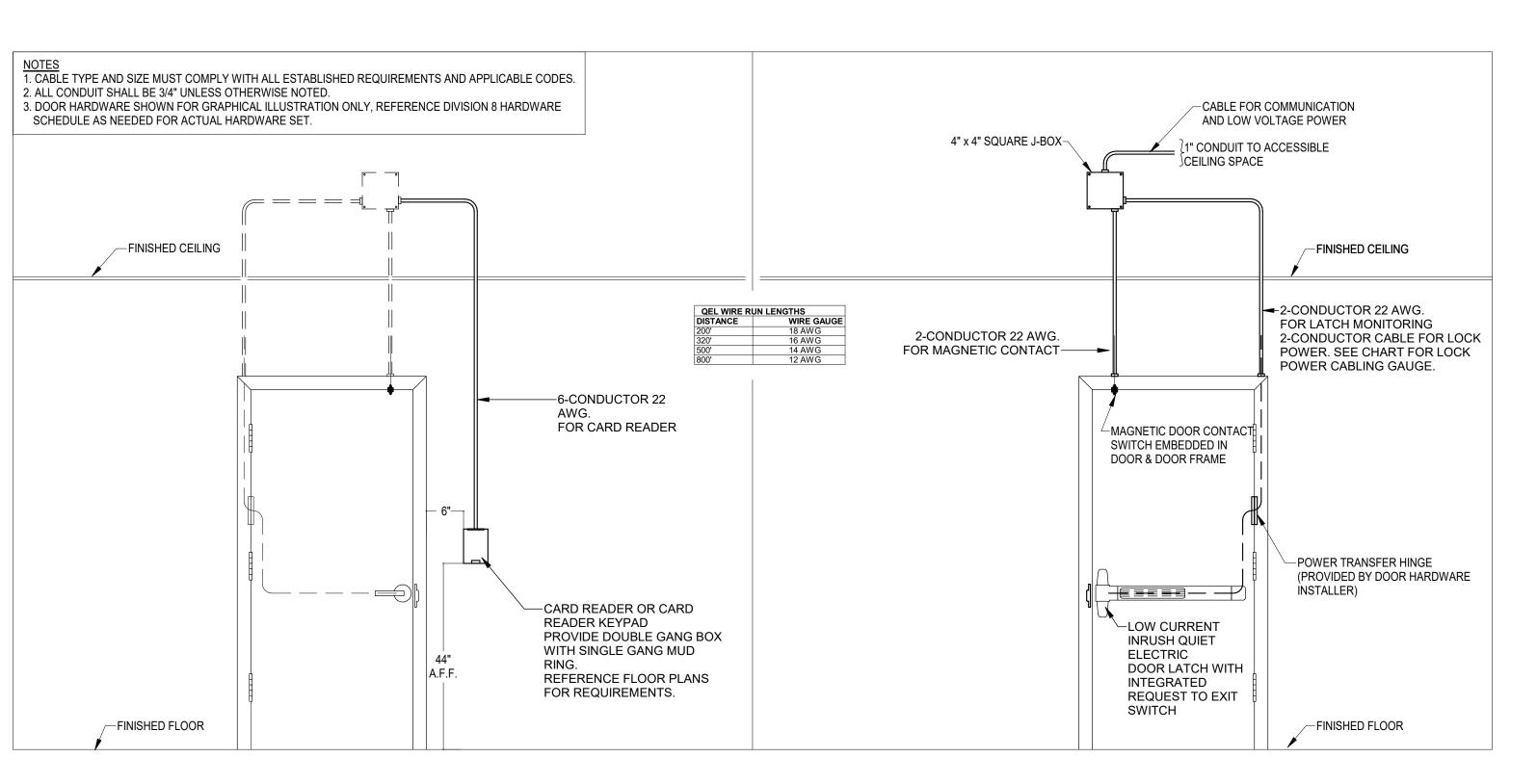
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3 DOOR TYPE H - ROLL-UP DOOR WITH DPS



# DOOR TYPE D - DOUBLE DOOR WITH ELECTRIC MORTISE LOCK WITH CARD READER - AUX BUILDING 1" = 1'-0"



DOOR TYPE A - SINGLE DOOR - QUIET ELECTRIC LATCH WITH 2 CARD READER - AUX BUILDING

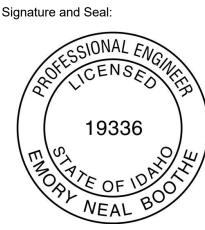
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**TECHNOLOGY DETAILS** 

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		CCTV CAMER	A SCHEDULE - AUXILIARY	
	SHEET			
CAMERA NUMBER	NUMBER	ROOM OR LOCATION	CAMERA MOUNT	COMMENTS
CA-001	T-100	EXTERIOR VEHICLE BAY REAR	BRACKET WALL MOUNTED	
CA-002	T-100	EXTERIOR VEHICLE BAY REAR	BRACKET WALL MOUNTED	
CA-003	T-100	EXTERIOR VEHICLE BAY FRONT	BRACKET WALL MOUNTED	
CA-004	T-100	EXTERIOR VEHICLE BAY FRONT	BRACKET WALL MOUNTED	
CA-005	T-100	NE CORNER	BRACKET WALL MOUNTED	
CA-006	T-100	SE CORNER OF AUX BUILDING	POLE MOUNTED	POLE MOUNTED VIEWING SALLY PORT ENTRANCE
CA-007	T-100	SE CORNER OF AUX BUILDING	POLE MOUNTED	VIEWING AUX BUILDING REAR ENTRANCE
CA-008	T-100	SE CORNER OF AUX BUILDING	POLE MOUNTED	VIEWING AUX BUILDING SIDE GATE
CA-009	T-100	SE CORNER OF AUX BUILDING	POLE MOUNTED	VIEWING CUP
CA-010	T-100	NE CORNER	BRACKET WALL MOUNTED	VIEWING AUX BUILDING FRONT GATE

			DOOR HARD	WARE SCHEDULE	- AUXILIARY		
DOOR NUMBER	SHEET NUMBER	ROOM OR LOCATION	DOOR TYPE	READER TYPE	LOCKING DEVICE	INTRUSION DETECTION	COMMENTS
002	AB T-102	QUARTERMASTER STORAGE 002	SINGLE	CR	EM	DPS	
004	AB T-102	ELETRICAL ROOM 004	DOUBLE	CR	EM	2 DPS	
800	AB T-102	IT 008	SINGLE	CR	EM	DPS	
014A	AB T-102	AMMO STORAGE 014	SINGLE	CR	EM	DPS	
014B	AB T-102	AMMO STORAGE 014	ROLLUP			DPS	
016	AB T-102	MECHANICAL 016	DOUBLE	CR	EM	2 DPS	
017A	AB T-102	WARM VEHICLE STORAGE 017	SINGLE	CR	EL	DPS	
017B	AB T-102	WARM VEHICLE STORAGE 017	SINGLE	CR	EL	DPS	
017C	AB T-102	WARM VEHICLE STORAGE 017	SINGLE	CR	EL	DPS	
018A	AB T-102	ENTRY 018A	DOUBLE	CR	2 EL	2 DPS	
018E	AB T-102	ENTRY 018E	SINGLE	CR	EL	DPS	



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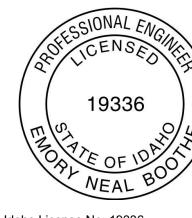
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