

# MOHAVE COUNTY SHERIFF'S OFFICE T.I.

LAKE HAVASU CITY, ARIZONA

ARCHITECT: (DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE)

**SELBERG ASSOCIATES, INC.**

1000 BRAUNIGAM A.L.A., NCARB  
2130 MESQUITE AVE., SUITE 204  
LAKE HAVASU CITY, AZ 86403  
(928) 855-8544

MECHANICAL/ PLUMBING/ ELECTRICAL ENGINEER

**MAVEN ENGINEERING, ACC**

8011 S AVENIDA DEL YACUÍ  
GUADALUPE, ARIZONA 85203  
(480) 303-1180

FIRE PROTECTION

**CRAIG FIRE PROTECTION**

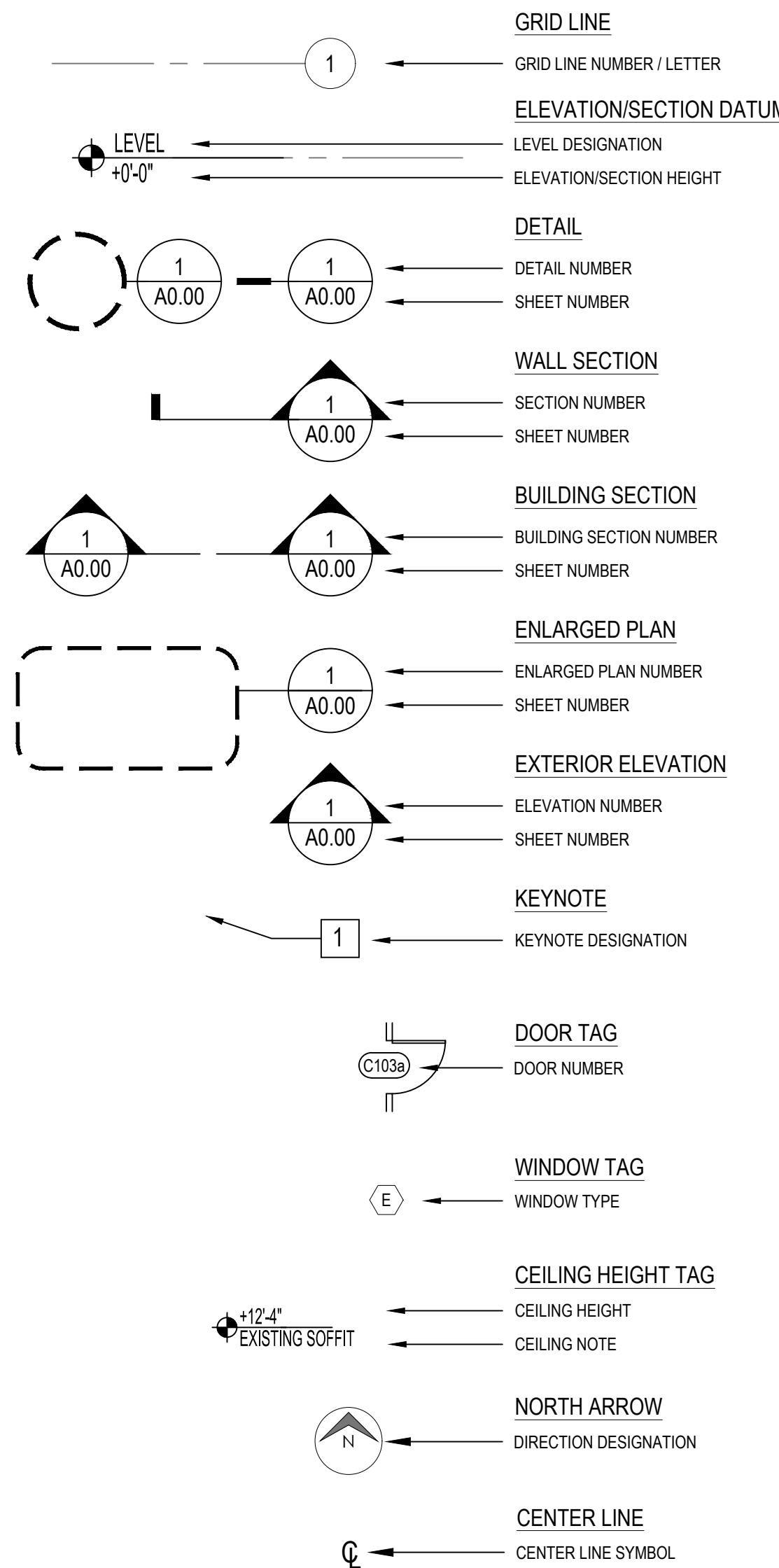
2160 W ACOMA BLVD #102 LAKE HAVASU CITY,  
ARIZONA 86403  
(928) 453-7185

FIRE ALARM

**ALPINE COMMUNICATIONS**

1600 W ACOMA BLVD #25  
LAKE HAVASU CITY, AZ 86403  
(928) 453-1714

## DRAFTING SYMBOLS



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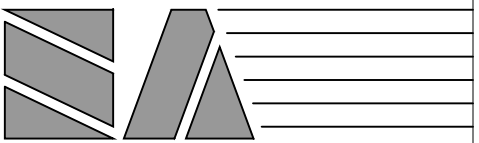
SHEET NO.	SHEET TITLE	SUBMITTALS AND DATES	
		09-20-2022 PERMIT SET	
A0.01	PROJECT DATA & COVERSHEET	●	
<b>ARCHITECTURAL</b>			
A0.02	ADA DETAILS	●	
A0.03	DEMOLITION FLOOR PLAN	●	
A0.04	EGRESS FLOOR PLAN	●	
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E1.00	LIGHTING FLOOR PLAN	●	
E2.00	POWER FLOOR PLAN	●	
E3.00	ELECTRICAL ONE-LINE DIAGRAM	●	
<b>FIRE SPRINKLER</b>			
FP1	FIRE SPRINKLER PIPING PLAN	●	
<b>FIRE ALARM</b>			
FA1.01	FIRE ALARM FLOOR PLAN	●	

SEAL  
**Preliminary**  
02/23/2024 3:46:46 PM

DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF THE DESIGN PROFESSIONAL. COPIES OF THE DRAWINGS AND SPECIFICATIONS RETAINED BY THE CLIENT MAY BE UTILIZED ONLY FOR HIS USE AND FOR OCCUPANCY OF THE PROJECT FOR WHICH THEY WERE PREPARED, AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECTS.

PROJECT NAME:  
**MOHAVE COUNTY SHERIFF'S OFFICE T.I.**  
**LAKE HAVASU CITY, ARIZONA**  
6634 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD



**SELBERG ASSOCIATES INC.**  
ARCHITECTURE & PLANNING

2130 MESQUITE AVE | SUITE 204  
LAKE HAVASU CITY | ARIZONA | 86403  
(928) 855-8544

PROJECT NO. 23089

ISSUED FOR: PERMIT SET

ISSUED DATE: FEBRUARY 15, 2024

REVISION ISSUE DATE

SHEET TITLE:

PROJECT DATA & COVERSHEET

SHEET NO.

**A0.01**

## GENERAL NOTES

VERIFY ALL DIMENSIONS WITH ARCHITECT PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE OWNER. ALL CONSTRUCTION SHALL CONFORM TO ALL LOCAL, STATE, & FEDERAL CODES AND REGULATIONS.

ALL SPECIFICATIONS, DIMENSIONS, AND NOTES SHALL HAVE PRECEDENCE OVER SCALE.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES.

WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.

WHERE THERE MAY BE A CONFLICT IN THE SPECIFICATIONS AND/OR DRAWINGS THEN THE MORE EXPENSIVE LABOR, MATERIALS, AND EQUIPMENT SHALL BE ASSUMED TO BE REQUIRED AND SHALL BE PROVIDED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.

WHEN WORK NOT SPECIFICALLY CALLED OUT IS REQUIRED TO COMPLETE THE PROJECT, IT SHALL BE PROVIDED BY THE CONTRACTOR WITH THE BEST MATERIALS AND WORKMANSHIP.

CONTRACTOR IS REQUIRED TO ABIDE BY THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS GENERAL CONDITIONS AND RELATED DOCUMENTS UNLESS DIRECTED OTHERWISE BY THE OWNER.

THE STARTING OF WORK BY ANY SUBCONTRACTORS SHALL BE CONSIDERED EVIDENCE THAT HE HAS INSPECTED AND ACCEPTED ALL CONDITIONS INVOLVED IN HIS WORK AND FINDS THEM SATISFACTORY.

ALL COMPONENTS, EQUIPMENT, ETC., SHALL BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS AND PRINTED RECOMMENDATIONS.

THIS TENANT IMPROVEMENT IS TO BE CONSTRUCTED ACCORDING TO ALL INDUSTRY STANDARDS.

ALL EXPOSED SURFACES NOT FACTORY PREFINISHED SHALL BE PAINTED.

UNLESS OTHERWISE NOTED ALL WEATHER EXPOSED SURFACES SHALL HAVE A WEATHER RESISTIVE BARRIER TO PROTECT THE INTERIOR FINISHES.

ALL EXTERIOR OPENINGS SHALL BE FLASHED AND COUNTER FLASHED IN SUCH A MANNER AS TO MAKE THEM WEATHERPROOF.

ALL GYPSUM BOARD SHALL BE TAPED PER THE GYPSUM CONSTRUCTION HANDBOOK AND FASTENED PER THE MANUFACTURERS REQUIREMENTS UNLESS THE STRUCTURAL ENGINEER REQUIRES OTHERWISE OR IF THE FIRE RATED ASSEMBLY REQUIRES OTHERWISE.

## SITE INFORMATION

**PROJECT LOCATION:** 6534 SHOWPLACE AVE, LAKE HAVASU CITY, AZ, 86404

**OWNER NAME:** BILL G & LARRY G INVESTMENTS, LLC

**PARCEL NUMBER(S):** 120-55-005A

**LOT AREA:** 0.74 ACRES

**LEGAL DESCRIPTION:** SEC 4 T14N R20W TRACT NO 2395 LOT 5 DIVIDED AS LOT 5-A AS SHOWN ON PP 039/033-033A REC 2/10/22 FEE #202209097, ACRES 0.74

**JURISDICTION:** LAKE HAVASU CITY

**EXISTING ZONING:** GENERAL COMMERCIAL PD (C-2 PD)

**PLANNED LAND USE:** CMU (COMMERCIAL MIXED USE)

**BUILDING AREA:** 12,450 SF

## VICINITY MAP



## CODE ANALYSIS

**PROJECT DESCRIPTION:**  
THIS PROJECT CONSISTS OF AN INTERIOR ALTERATION OF THE EXISTING BUILDING LOCATED AT 6534 SHOWPLACE AVE IN THE JURISDICTION OF LAKE HAVASU CITY, AZ.

THE PRIMARY USE OF THE BUILDING WILL BE OFFICE SPACE AND INDOOR STORAGE FOR THE MOHAVE COUNTY SHERIFF SUBSTATION.

**APPLICABLE CODES:**  
2018 INTERNATIONAL BUILDING CODE (IBC) w/ LAKE HAVASU CITY AMENDMENTS  
2018 INTERNATIONAL FIRE CODE (IFC)  
2018 INTERNATIONAL PLUMBING CODE (IPC)  
2018 INTERNATIONAL MECHANICAL CODE (IMC)  
2017 NATIONAL ELECTRICAL CODE (NEC)  
2009 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (A117.1)  
2010 AMERICANS WITH DISABILITIES ACT (ADA)

- BASIS OF ANALYSIS:**  
2018 INTERNATIONAL BUILDING CODE (IBC) w/ LAKE HAVASU CITY AMENDMENTS
- OCCUPANCY CLASSIFICATION (IBC CHAPTER 3):**  
GROUP 'B', GROUP 'S-1', AND GROUP 'U'
- CONSTRUCTION TYPE (IBC CHAPTER 6):**  
TYPE V-B
- FIRE SPRINKLERS:**  
PROVIDED AND INSTALLED IN ACCORDANCE WITH IBC 903.3.3.1.1
- FIRE ALARM:**  
PROVIDED AND INSTALLED IN ACCORDANCE WITH IBC 907.2.2
- BUILDING HEIGHTS AND ALLOWABLE AREAS (IBC TABLE 504.3, 504.4, AND 506.2):**

ALLOWABLE AREA BASED ON CONSTRUCTION TYPE					
BUILDING	USE GROUP	CONSTRUCTION TYPE	ALLOWABLE AREA	ACTUAL AREA	ACTUAL HEIGHT (FEET/STORIES)
BUILDING 'A'	B	TYPE V-B	36,000 SF (a)	6,279 SF	60' / 3 (b)
	S-1	TYPE V-B	36,000 SF (a)	4,391 SF	60' / 2 (b)
	U	TYPE V-B	22,000 SF (a)	1,413 SF	60' / 2 (b)

- ALLOWABLE AREA INCREASE PER IBC 506.3 - BUILDING IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE W/ SECTION 903.3.3.1.1
- ALLOWABLE INCREASE IN BUILDING HEIGHT AND STORIES PER IBC 504.2 - BUILDING IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE W/ SECTION 903.3.3.1.1
- OCCUPANCY SEPARATION (IBC 508.3):**  
NON SEPARATED USES - USE 'U' OCCUPANCY

## 8. FIRE RESISTANCE RATING REQUIREMENTS (IBC TABLE 601):

COMPONENT	RATING REQUIRED	FIRE RESISTIVE DESIGN ASSEMBLY
STRUCTURAL FRAME	NONE	-
INTERIOR AND EXTERIOR BEARING WALLS	NONE	-
EXTERIOR NON-BEARING WALLS (X < 30')	NONE	-
INTERIOR NON-BEARING WALLS	NONE	-
FLOOR (AND SECONDARY MEMBERS)	NONE	-
ROOF (AND SECONDARY MEMBERS)	NONE	-

## 9. FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:

NOT APPLICABLE UNDER THIS WORK

## 10. OCCUPANT LOAD FACTOR (IBC TABLE 1004.5):

REFER TO SHEET A0.04 EGRESS PLAN

## 11. REQUIRED FIRE RESISTANCE OF EXTERIOR WALLS DUE TO PROPERTY LOCATION:

SCOPE OF WORK DOES NOT AFFECT THE FIRE RESISTANCE RATING OF EXTERIOR WALLS.

## 12. PROTECTION OF OPENINGS DUE TO LOCATION ON PROPERTY / MAX. AREA OF EXTERIOR WALL OPENINGS:

THE SCOPE OF WORK DOES NOT AFFECT THE NUMBER OF OPENINGS IN RELATION TO THIS SECTION.

## 13. SPACES REQUIRING FIRE-RESISTANCE-RATED SEPARATION:

NOT APPLICABLE UNDER THIS WORK

## 14. EXIT TRAVEL DISTANCE (IBC TABLE 1017.2):

OCCUPANCY GROUP B: 300' MAX  
OCCUPANCY GROUP S-1: 250' MAX  
OCCUPANCY GROUP U: 400' MAX

## 15. PLUMBING FIXTURE CALCULATIONS (IBC TABLE 2902.1):

OCCUPANCY TYPE	OCCUPANCY	PLUMBING FIXTURE CALCULATIONS						
		WATER CLOSETS		LAVATORIES		BATHTUBS OR SHOWERS	DRINKING FOUNTAINS	SERVICE SINKS
		MALE	FEMALE	MALE	FEMALE			
BUSINESS (B)	125 63 EA. SEX	1.25 UP TO 50 AND 1.50 FOR 50 AND ABOVE = 2.26	1.25 UP TO 50 AND 1.50 FOR 50 AND ABOVE = 2.26	1.40 UP TO 80 AND 1.80 FOR 80 AND ABOVE = 1.575	1.40 UP TO 80 AND 1.80 FOR 80 AND ABOVE = 1.575	-	SEE FOOTNOTE (1)	1 SERVICE SINK
STORAGE (S-1)	19 10 EA. SEX	1:100 = 0.1	1:100 = 0.1	1:100 = 0.1	1:100 = 0.1	-	-	-
<b>TOTAL REQUIRED:</b>		2.36 = 3 EA. SEX		1.675 = 2 EA. SEX		-	0	1
<b>TOTAL PROVIDED:</b>		10		7		2	0	1

(1) NOT REQUIRED PER LHC 2018 AMENDMENTS IPC 410.3

## DEFERRED SUBMITTALS

- CONTRACTOR SHALL REVIEW AND STAMP SHOP DRAWINGS PRIOR TO SUBMITTING TO ARCHITECT AND/OR ENGINEER FOR REVIEW. CONTRACTOR'S REVIEW SHALL CHECK FOR COMPLETENESS/COMPLIANCE WITH CONTRACT DOCUMENTS.
- SHOP DRAWINGS ARE REVIEWED BY ARCHITECT AND/OR ENGINEER ONLY FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FABRICATION PROCESSES AND TECHNIQUES, COORDINATING WORK WITH OTHER TRADES AND SATISFACTORY AND SAFE PERFORMANCE OF THE WORK.
- CHANGES, SUBSTITUTIONS WILL NOT BE ACCEPTED VIA SHOP DRAWING REVIEW. ALL SUCH MODIFICATIONS SHALL BE SUBMITTED SEPARATELY FOR THE ARCHITECTS AND/OR ENGINEERS REVIEW.
- DEFERRED SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT AND/OR ENGINEER FOR REVIEW. REFER TO EACH DISCIPLINE FOR DEFERRED SUBMITTALS REQUIRED.
- DEFERRED SUBMITTALS SHALL INCLUDE CALCULATIONS AND DRAWINGS PREPARED AND STAMPED BY AN APPROPRIATELY LICENSED ENGINEER.
- REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS SPECIFIC TO INDIVIDUAL REVIEW

**DEFERRED ARCHITECTURAL SUBMITTAL:**  
- NONE

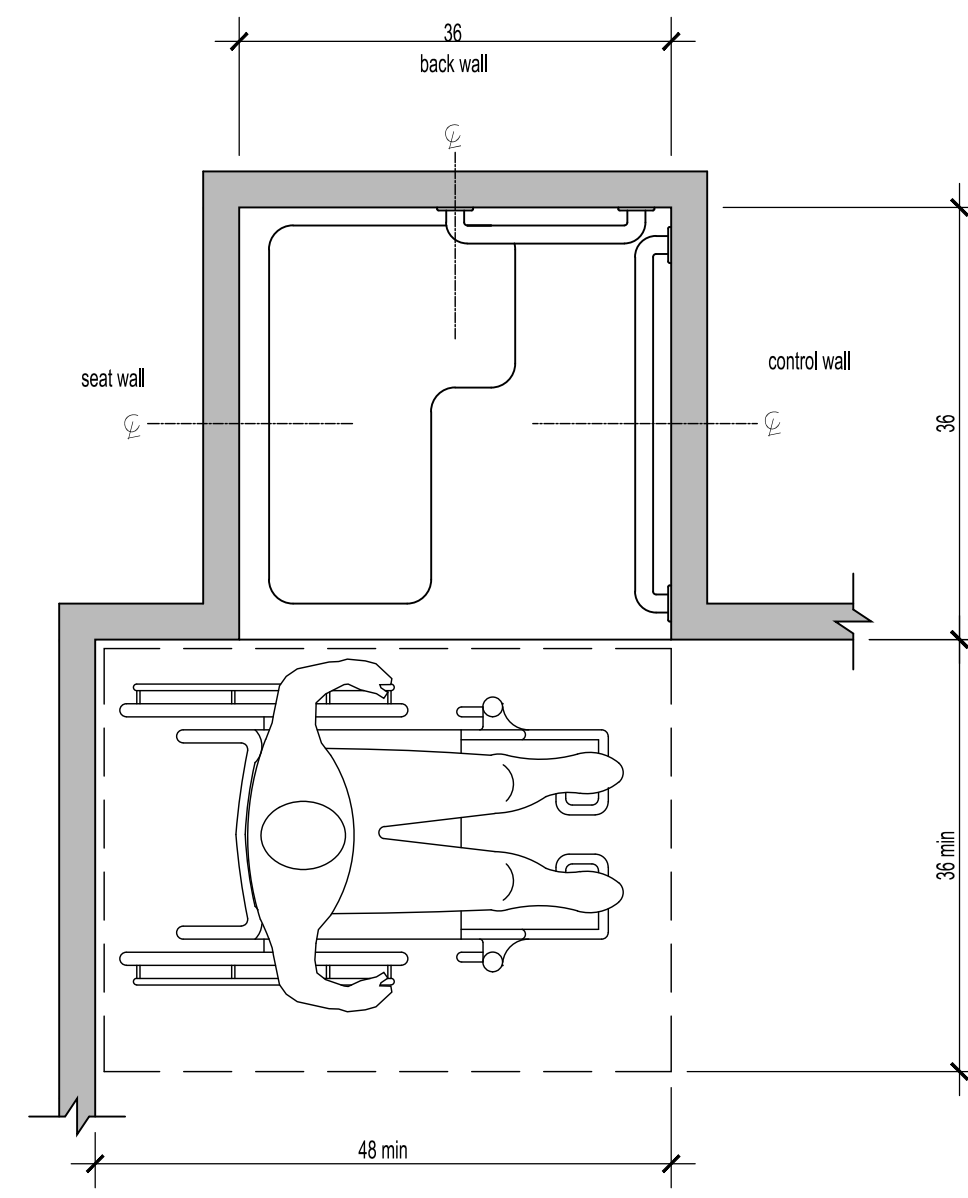
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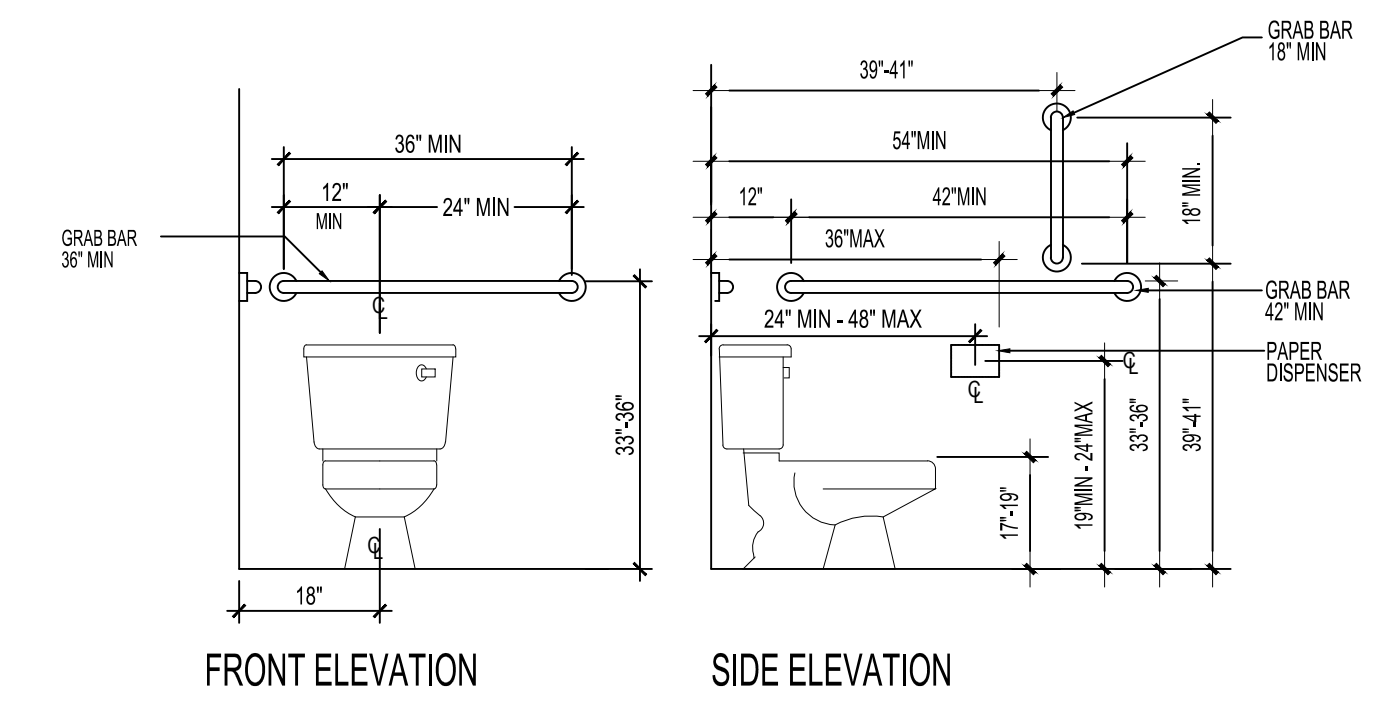
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 ARCHITECTURE & PLANNING  
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 (928) 955-5544

PROJECT NO. 23089  
 ISSUED FOR: PERMIT SET  
 ISSUED DATE: FEBRUARY 15, 2024  
 REVISION ISSUE DATE

SHEET TITLE:  
 ADA DETAILS  
 SHEET NO. **A0.02**

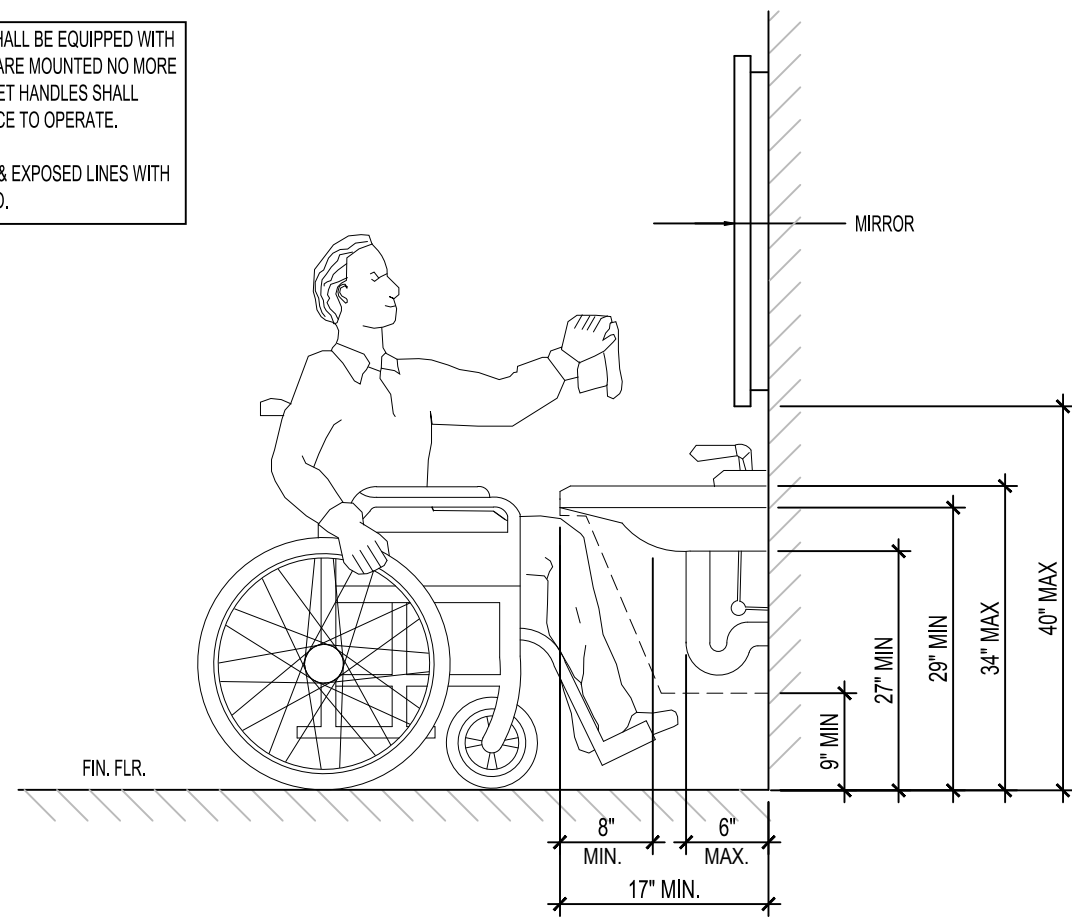


13 TRANSFER TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE  
ICC/ANSI A117.1-2009 FIG. 608.2.1 N.T.S.

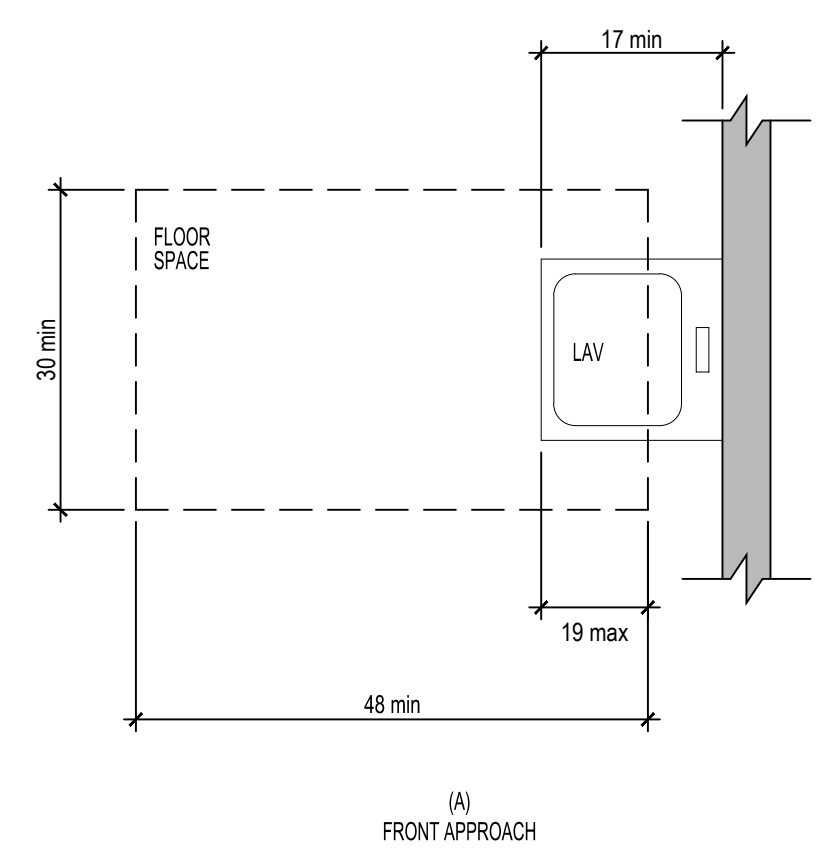


9 GRAB BAR CLEARANCES DISPENSER OUTLET LOCATION  
N.T.S.

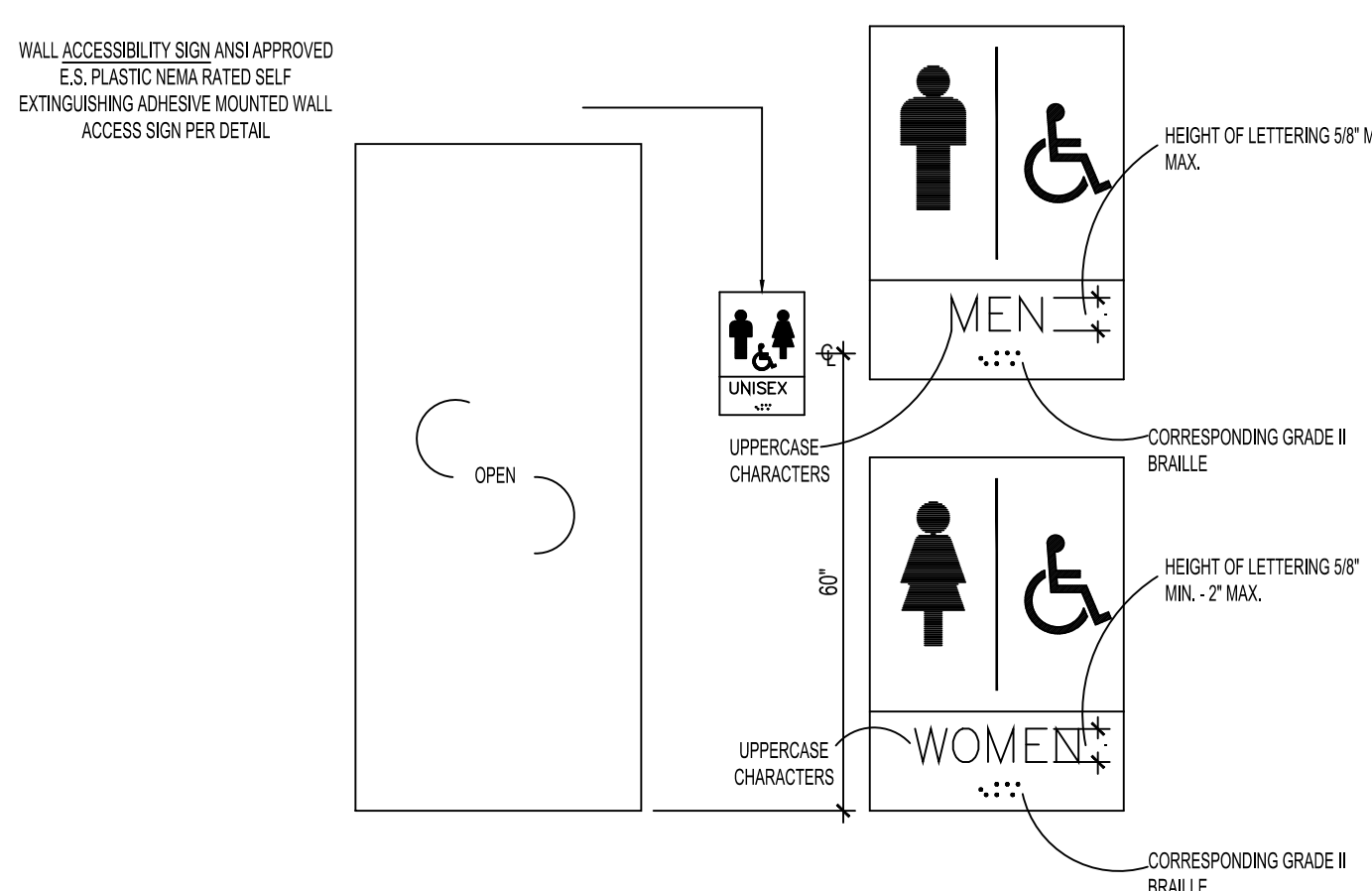
NOTES:  
 FAUCET AND OPERATING CONTROLS SHALL BE EQUIPPED WITH SINGLE-EFFORT, NON-GRASP HARDWARE MOUNTED NO MORE THAN 44" ABOVE FINISH FLOOR. FAUCET HANDLES SHALL REQUIRE NO MORE THAN 5LB OF FORCE TO OPERATE.  
 WRAP ALL HOT WATER, COLD WATER & EXPOSED LINES WITH "LAV-GUARD" AS MANUFACTURED BY TRU-BRO.



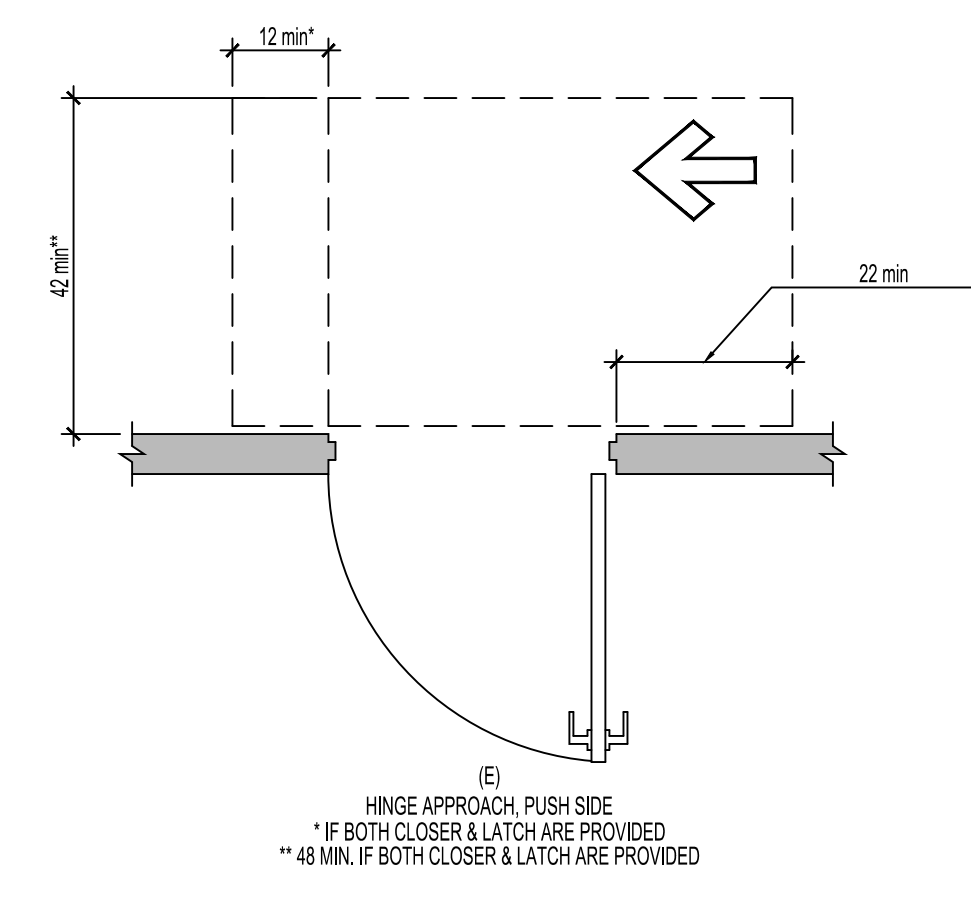
10 HEIGHT OF LAVATORIES AND SINKS  
N.T.S.



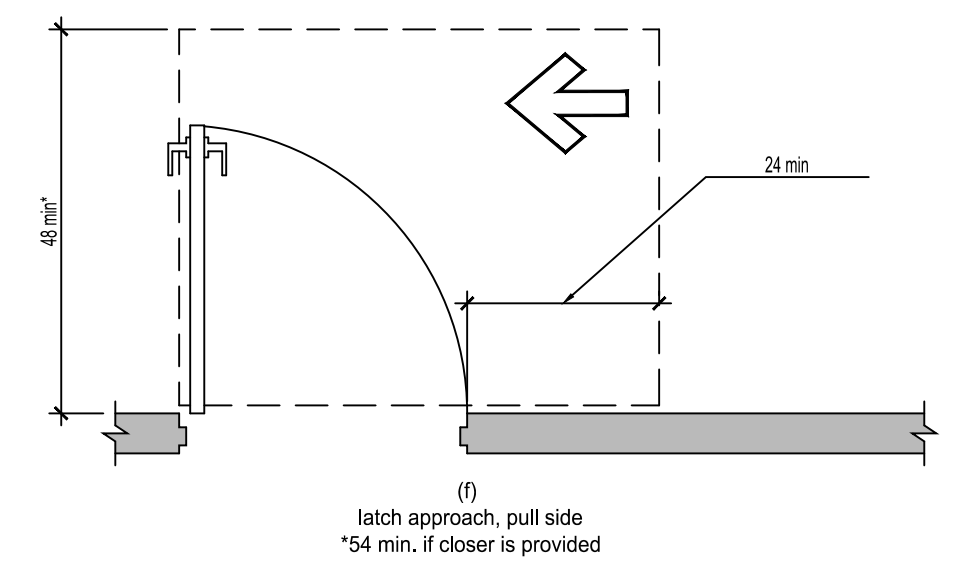
11 LAVATORY CLEAR FLOOR SPACE  
N.T.S.



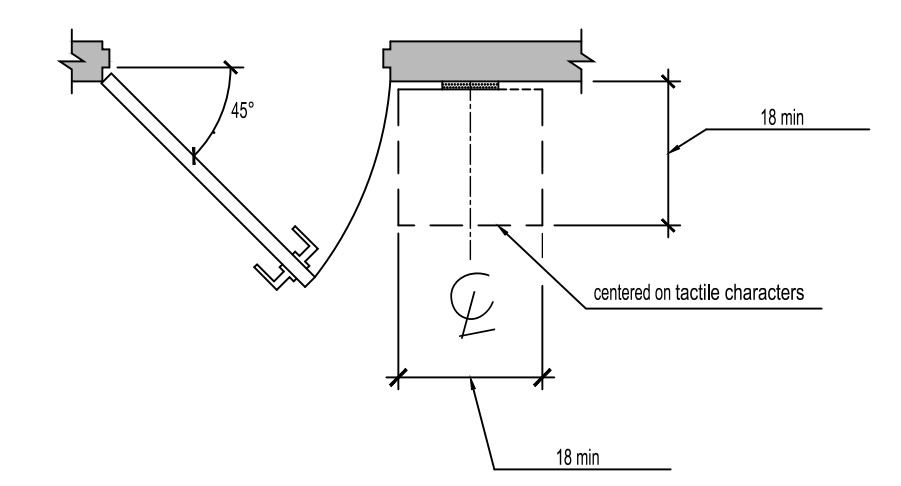
12 ACCESSIBLE SIGNAGE AT RESTROOM DOORS  
ICC/ANSI A117.1-2009 CHAPTER 7 N.T.S.



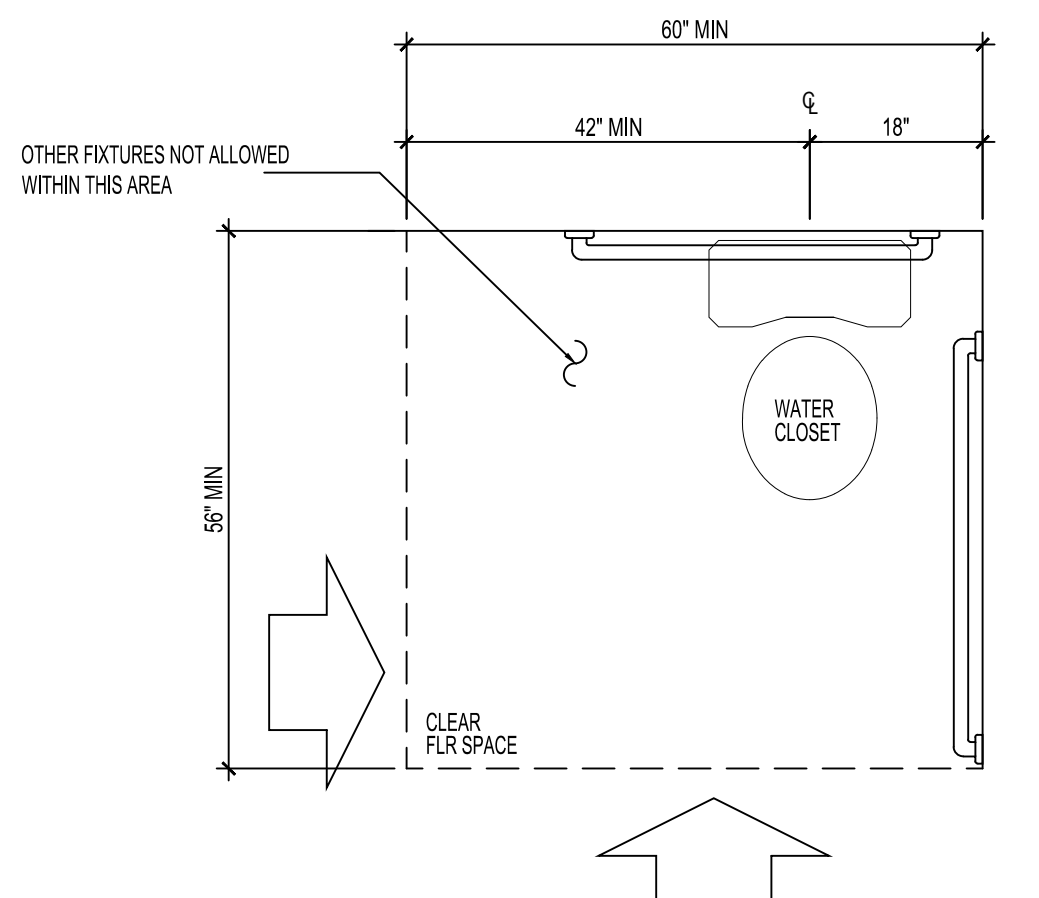
5 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS  
N.T.S.



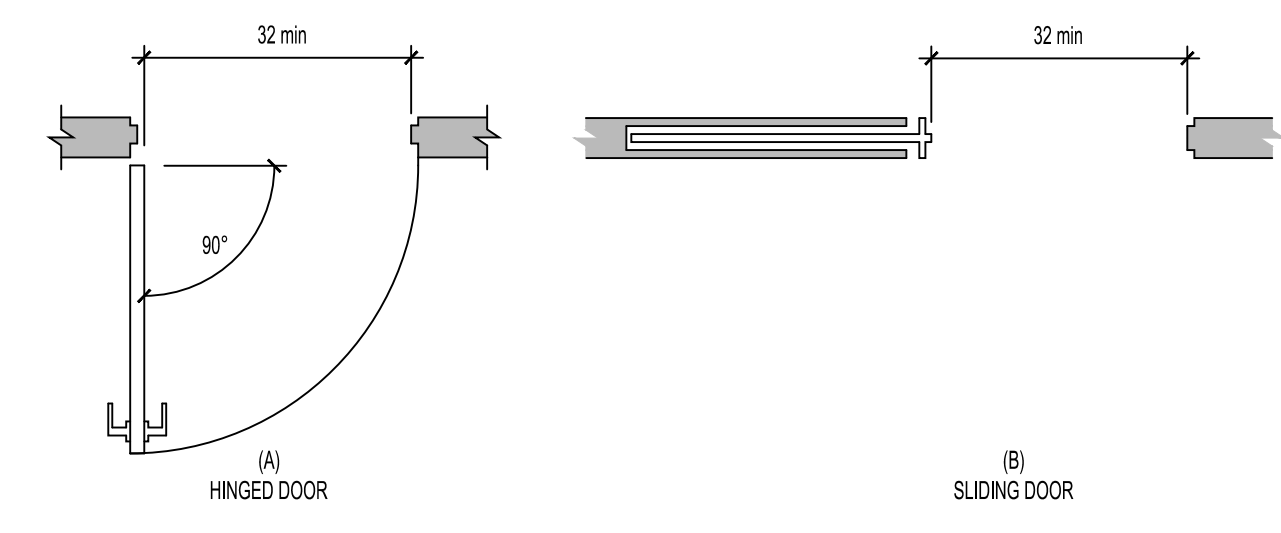
6 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS  
N.T.S.



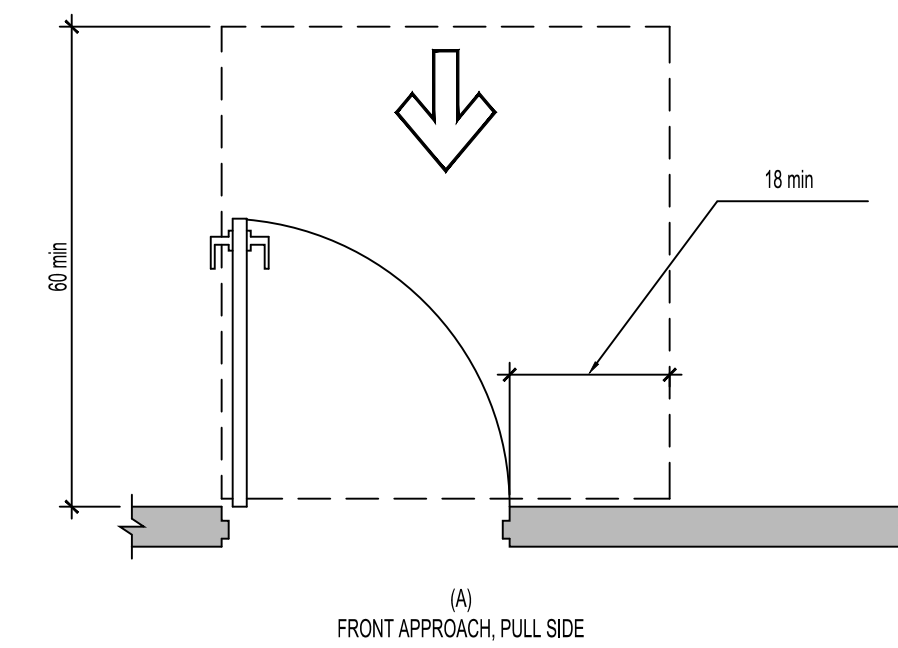
7 LOCATION OF TACTILE SIGNS AT DOORS  
N.T.S.



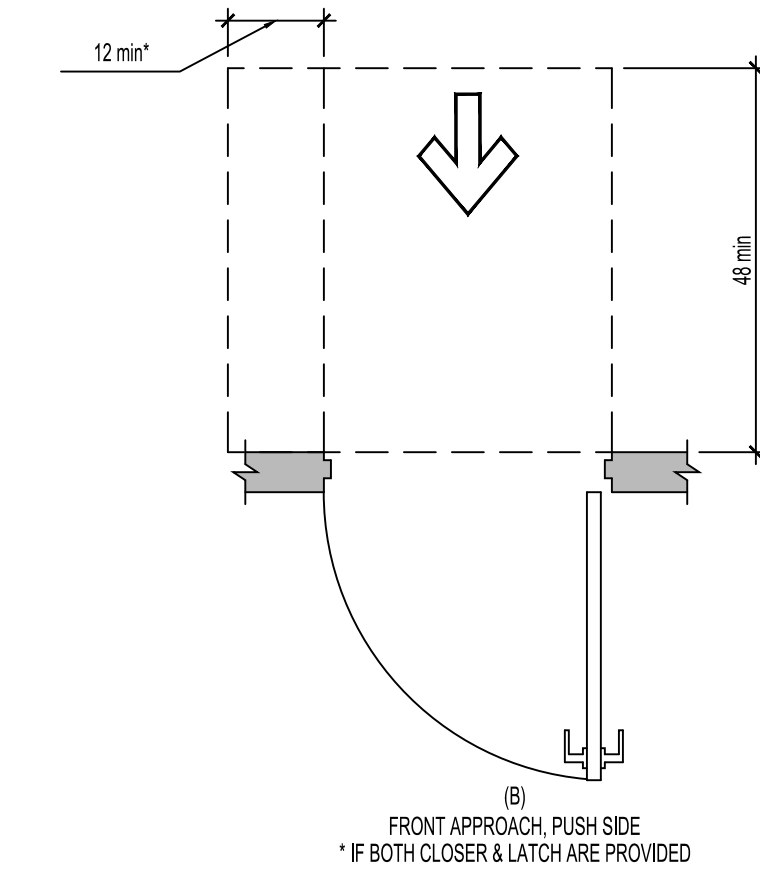
8 WATER CLOSET CLEARANCES/ GRAB BAR INSTALLATION  
N.T.S.



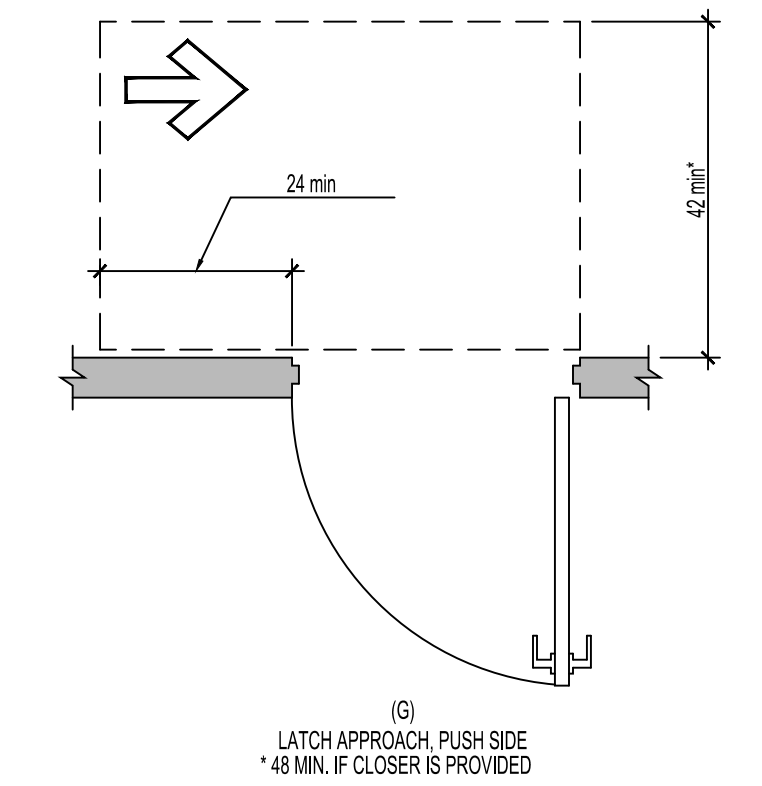
1 CLEAR WIDTH AT DOORWAYS  
N.T.S.



2 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS  
ICC/ANSI A117.1-2009 FIG. 404.2.3.2 N.T.S.



3 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS  
N.T.S.



4 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS  
N.T.S.

PROJECT NAME:  
**MOHAVE COUNTY SHERIFF'S OFFICE T.I.  
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6534 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD



2130 MESQUITE AVE | SUITE 204  
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(928) 955-9244

PROJECT NO. 23089

ISSUED FOR: PERMIT SET

ISSUED DATE: FEBRUARY 15, 2024

REVISION ISSUE DATE

SHEET TITLE:

EXISTING / DEMOLITION  
FLOOR PLAN

SHEET NO.

# A0.03

### WALL LEGEND

NEATLY CUT DEPRESSIONS, CHASES, AND THE LIKE WITH CORBORUNDUM SAWS AS REQUIRED, AND REMOVE ALL EXISTING CONSTRUCTION AS REQUIRED. FILL IN WITH MATERIALS TO MATCH EXISTING.

CONDUCT ALL OPERATIONS WITH A MINIMUM OF NOISE.

CONTRACTOR IS RESPONSIBLE TO PROMPTLY REPAIR DAMAGES TO EXISTING AND NEW FACILITIES CAUSED DURING CONSTRUCTION OPERATIONS AS DIRECTED BY CONTRACTING OFFICER AT NO COST TO OWNER.

CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, SIZES, AND LOCATION OF EXISTING AND NEW CONSTRUCTION.

PROVIDE AND MAINTAIN SUITABLE BARRICADES, SHELTERS, LIGHTS AND DANGER SIGNALS DURING THE PROGRESS OF THE WORK. THEY SHALL MEET THE REQUIREMENTS OF STATE AND/OR LOCAL BUILDING CODES. ASSUME FULL RESPONSIBILITY OF BARRIERS TO COMPLETION OF CONTRACT AND REMOVE SAME.

TAKE REASONABLE AND ADEQUATE PRECAUTIONS TO PROTECT THE OWNER'S PROPERTY FROM DAMAGE DURING DEMOLITION WORK, MOVING OF DEBRIS, RESTORE ANY DAMAGE TO THE OWNER'S PROPERTY DUE TO THE AFORE SAID WORK OR REPLACE IN A MANNER SATISFACTORY TO THE OWNER.

REMOVE ALL WORK CAREFULLY AND ONLY TO THE EXTENT REQUIRED FOR THE FINAL WORK. REMOVE ALL LOOSE OR DAMAGED MATERIALS CAUSED BY DEMOLITION, OR NOTED, OR SPECIFIED TO BE REMOVED.

ERECT DUSTPROOF PARTITION WHERE DEMOLITION WORK IS IN PROGRESS AND AS DIRECTED. SUCH PARTITIONS SHALL REMAIN IN PLACE UNTIL THEIR REMOVAL AS DIRECTED.

CAREFULLY REMOVE ANY MATERIALS AND EQUIPMENT NOTED OR SPECIFIED TO BE REUSED OR SALVAGED AND HANDLE WITH CARE TO MINIMIZE DAMAGE.

THE USE OF PNEUMATIC OR ELECTRIC HAMMERS FOR DEMOLITION AND CUTTING PURPOSES WITHIN THE EXISTING BUILDING WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE OWNER.

WHERE OPENINGS ARE TO BE CUT IN EXISTING STRUCTURE, CUT SUCH OPENINGS WITH CARE. WHERE MATERIALS ARE TO BE REMOVED, REMOVE SUCH ITEMS WITH CARE TO MINIMIZE DAMAGE TO ADJACENT MATERIALS.

PATCH & REPAIR ALL EXISTING WALL & FLOOR SURFACES TO BE REMOVED.

WHERE PATCHING IS REQUIRED, PATCH ALL AREAS USING THE SAME MATERIALS AND FINISH AS ADJACENT SURFACES AND PATCH IN SUCH A MANNER THAT THE REPAIRED AREA IS IN VISUAL HARMONY WITH THE SURROUNDING AREAS.

PROPERLY REPAIR ANY ADJOINING SURFACES TO ORIGINAL CONDITION THAT ARE DAMAGED BY THE CONTRACTOR.

WHERE WALL AND/OR CEILING SURFACES ARE DISTURBED, REFINISH ENTIRE SURFACE TO NEAREST INTERSECTION.

EXISTING FLOORING SHALL BE PREPARED FOR NEW FLOORING INSTALLATION BY REMOVING EXISTING FLOORING MATERIAL AND BASE AND REPAIRING IRREGULARITIES IN EXISTING SURFACES.

REPAIR AND PATCH ALL DAMAGES OR IRREGULARITIES IN EXISTING WALL SURFACES.

REMOVE ALL MATERIALS OR DEBRIS RESULTING FROM DEMOLITION OPERATIONS FROM THE SITE PROMPTLY. NO ACCUMULATION OF DEBRIS WILL BE PERMITTED.

THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLISHED OR DELETERIOUS MATERIAL, RUBBLE, DEBRIS AND WASTE OFF THE SITE, AT HIS EXPENSE.

ALL TRANSPORTATION REQUIRED TO HAUL AND DISPOSE OF ALL ITEMS REQUIRED WILL BE FURNISHED BY THE CONTRACTOR.

AFTER THE DEMOLITION WORK IN ANY AREA IS COMPLETED, CLEAN ALL FLOORS, WALLS AND CEILINGS, ETC., BEFORE ANY NEW CONSTRUCTION IS STARTED.

VERIFY FINAL ELECTRICAL POWER LOCATIONS WITH OWNER.

REMOVE, RELOCATE AND/OR REPLACE AS REQUIRED ALL ELECTRICAL, MECHANICAL, AND PLUMBING EQUIPMENT AND APPURTENANCES AFFECTED BY REMODEL AND NEW CONSTRUCTION. PATCH AND REPAIR GYPSUM WALLBOARD AS DAMAGED BY REMOVAL / RELOCATION.

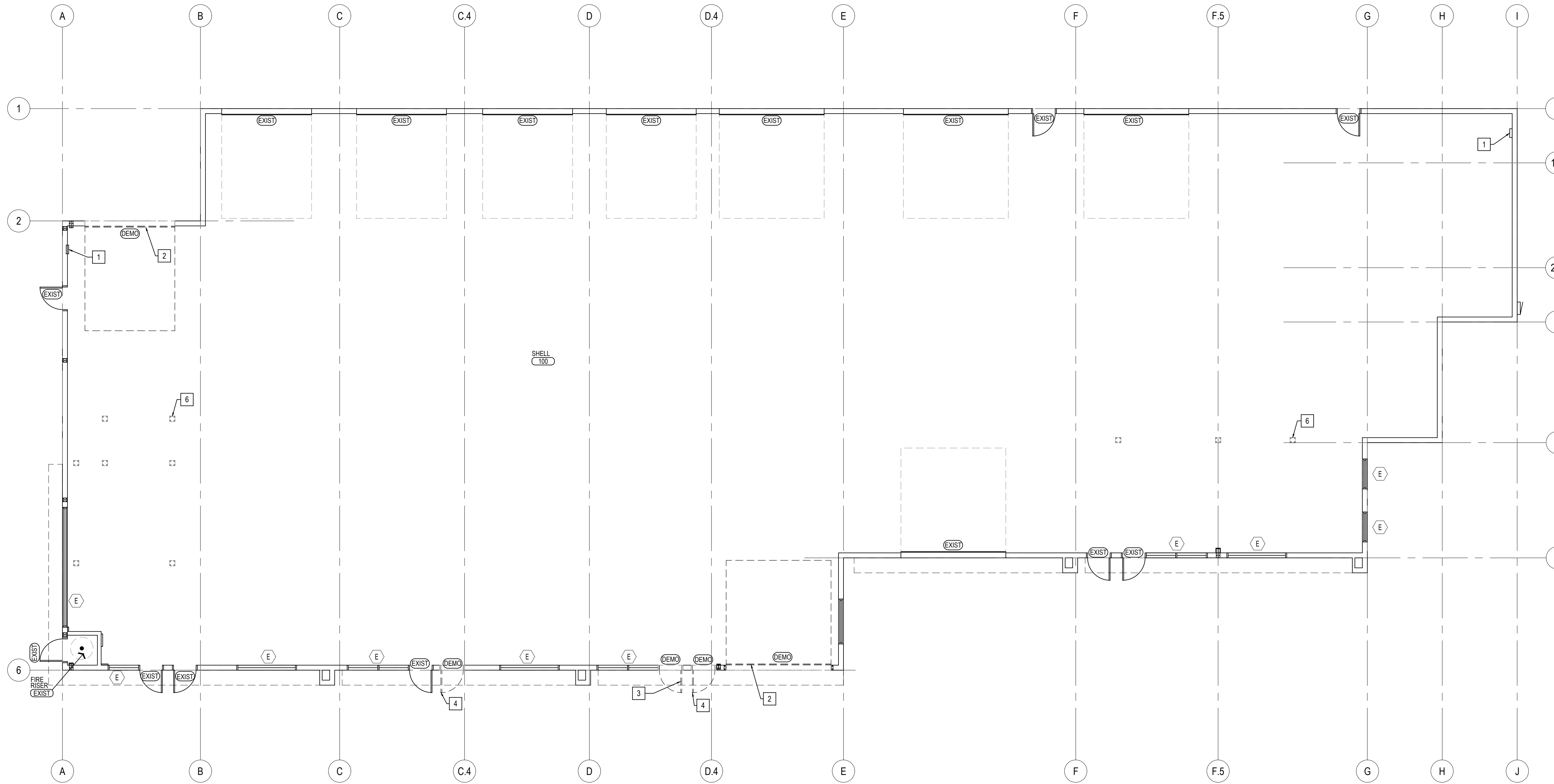
EXISTING ELECTRICAL, MECHANICAL, & PLUMBING TO BE REROUTED AND CONCEALED AS REQUIRED TO SERVE EXISTING AREAS, & NEW AREAS.

### DEMOLITION KEYNOTES:

- 1 ELECTRICAL PANEL TO REMAIN
- 2 OVERHEAD DOOR TO BE REMOVED
- 3 STOREFRONT DOOR TO BE REMOVED AND REUSED AT DOOR 127
- 4 HOLLOW METAL DOOR TO BE REMOVED AND REUSED AT DOOR 110A
- 5 HOLLOW METAL DOOR TO BE REMOVED AND REUSED AT DOOR 145
- 6 COLUMN TO BE REMOVED

### WALL LEGEND

- EXTERIOR WALL
- EXISTING WALL



**1 DEMOLITION FLOOR PLAN**  
1/8"=1'-0"

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REVISION ISSUE DATE

SHEET TITLE:

EGRESS PLAN

SHEET NO.

# A0.04

**EGRESS NOTES**

ROOM NAME	-	-	-
OCCUPANCY	g	-	-
OCCUPANT LOAD FACTOR	1:150	-	-
AREA (SQUARE FEET)	-	-	-
# OF OCCUPANTS	-	-	-

EXIT #/1	WIDTH	MAX.	- DOOR WIDTH IN INCHES AND MAX. CAPACITY
DOOR	33	220	- STAIR WIDTH IN INCHES AND MAX. CAPACITY
STAIR			- NUMBER OF OCCUPANTS UTILIZED
UTILIZED			(* INDICATES VALUE FROM LEVEL ABOVE)

--- LINE BETWEEN DIFFERENT USE GROUPS

⊙ → - OCCUPANTS EXITING ROOM OR SPACE

⊕ → - ACCUMULATIONS OCCUPANTS

⊖ → - OCCUPANTS FROM LEVEL ABOVE

● --- - MAX. TRAVEL DISTANCE

**EXITING NOTES**

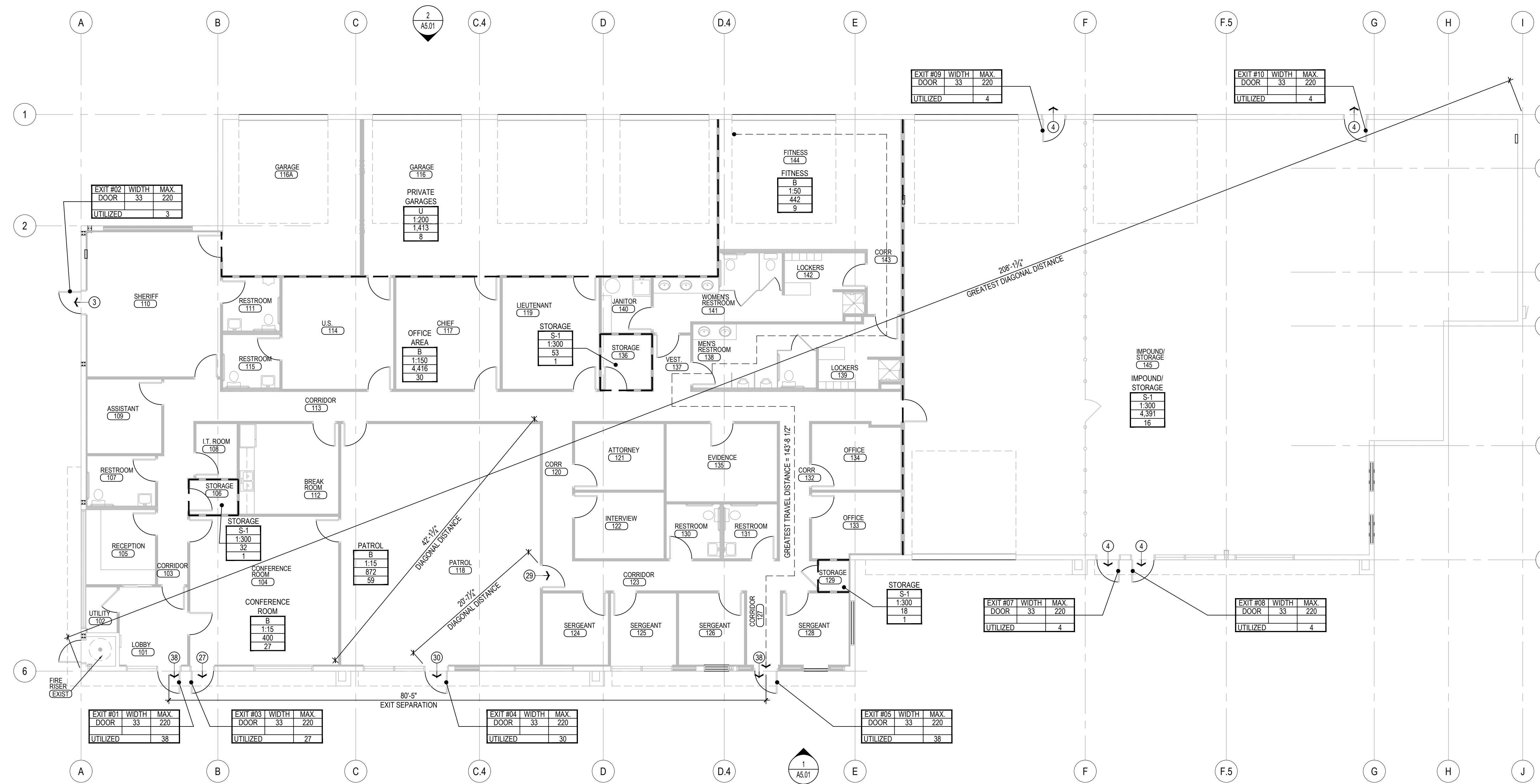
- THE CAPACITY LOAD FACTOR IS 0.15' PER OCCUPANT FOR ALL MEANS OF EGRESS FOR BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM, PER IBC 1005.3.2. TOTAL REQUIRED EGRESS WIDTH: 149 OCC \* 0.15 = 22.35'
- MAXIMUM COMMON PATH OF EGRESS TRAVEL IS 300' FOR A SPRINKLERED B OCCUPANCY
- MAXIMUM EXIT ACCESS TRAVEL DISTANCE IS 250' FOR A SPRINKLERED S-1 OCCUPANCY

**EGRESS KEYNOTE**

YES	TACTILE EXIT SIGN PER DETAIL 13/A0.02.
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**OCCUPANT LOAD (PER 2018 IBC TABLE 1004.5)**

NO	DESCRIPTION	AREA (S.F.)	FACTOR	CALC.	LOAD
104	OFFICE AREA	4,416	150 GROSS	4,416/150	30
104	CONFERENCE ROOM	400	15 NET	400/15	27
106	STORAGE	32	300 GROSS	32/300	1
	PRIVATE GARAGES	1,413	200 GROSS	1,413/200	8
118	PATROL	872	15 NET	872/15	59
129	STORAGE	18	300 GROSS	18/300	1
136	STORAGE	53	300 GROSS	53/300	1
144	FITNESS	442	50 GROSS	442/50	9
145	IMPOUND/STORAGE	4,391	300 GROSS	4,391/300	16
<b>TOTAL</b>		<b>12,468</b>			<b>152</b>



**1 EGRESS PLAN**  
1/8"=1'-0"



Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

**BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States**

**BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada**

See General Information for Fire-Resistance Ratings - ANSI/UL 263 Certified for United States  
Design Criteria and Allowable Variances

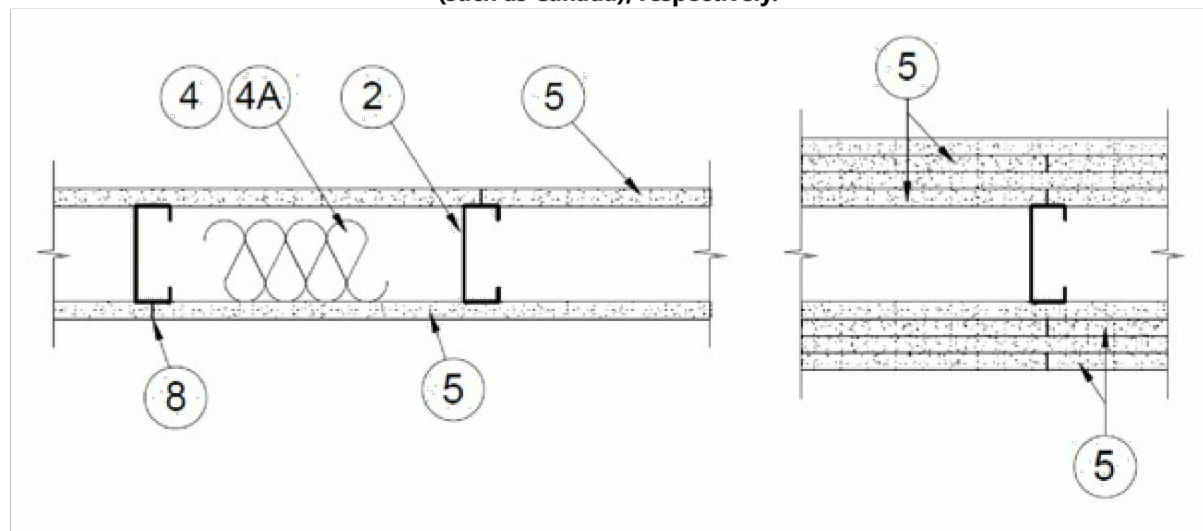
See General Information for Fire-Resistance Ratings - CAN/ULC-S101 Certified for Canada  
Design Criteria and Allowable Variances

Design No. **U419**

February 16, 2024

**Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J)**

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



**1. Floor and Ceiling Runners** — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

**1A. Framing Members\* — Floor and Ceiling Runner** — (Not Shown) — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.  
**CEMCO, LLC** — Viper25™ Track

**CRACO MFG INC** — SmartTrack25™

**MARINO/WARE, DIV OF WARE INDUSTRIES INC** — Viper25™ Track

**IMPERIAL MANUFACTURING GROUP INC** — Viper25™ Track

**1B. Framing Members\* — Floor and Ceiling Runner** — (Not Shown) — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.  
**CEMCO, LLC** — Viper20™ Track

**MARINO/WARE, DIV OF WARE INDUSTRIES INC** — Viper20™ Track

**IMPERIAL MANUFACTURING GROUP INC** — Viper20™ Track

**1C. Framing Members\* — Floor and Ceiling Runners** — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC, max.  
**ALLSTEEL & GYPSUM PRODUCTS INC** — Type SUPREME D24/30EQD and Type SUPREME D20

**CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV** — Type SUPREME D24/30EQD and Type SUPREME D20

**QUAIL RUN BUILDING MATERIALS INC** — Type SUPREME D24/30EQD and Type SUPREME D20

**SCAFCO STEEL STUD MANUFACTURING CO** — Type SUPREME D24/30EQD and Type SUPREME D20

**STEEL CONSTRUCTION SYSTEMS INC** — Type SUPREME D24/30EQD and Type SUPREME D20

**TELLING INDUSTRIES L L C** — Type SUPREME D24/30EQD and Type SUPREME D20

**UNITED METAL PRODUCTS INC** — Type SUPREME D24/30EQD and Type SUPREME D20

**1D. Floor and Ceiling Runners** — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

**1E. Framing Members\* — Floor and Ceiling Runners** — (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC, max.  
**CLARKDIETRICH BUILDING SYSTEMS** — CD ProTRAK

**DMFCWBS L L C** — ProTRAK

**MBA METAL FRAMING** — ProTRAK

**RAM SALES L L C** — Ram ProTRAK

**STEEL STRUCTURAL PRODUCTS L L C** — Tri-S ProTRAK

**1F. Framing Members\* — Floor and Ceiling Runner** — (Not Shown) — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.  
**SUPER STUD BUILDING PRODUCTS** — The Edge

**1G. Framing Members\* — Floor and Ceiling Runner** — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.  
**STUDCO BUILDING SYSTEMS** — CROCSTUD Track

**1H. Floor and Ceiling Runners** — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.  
**MARINO/WARE, DIV OF WARE INDUSTRIES INC** — Viper20™ Track VT100

**IMPERIAL MANUFACTURING GROUP INC** — Viper20™ Track VT100

**1I. Framing Members\* — Floor and Ceiling Runners** — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC, max.  
**TELLING INDUSTRIES L L C** — TRUE-TRACK™

**1J. Framing Members\* — Floor and Ceiling Runner** — (Not Shown) — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

**1K. Framing Members\* — Floor and Ceiling Runner** — (Not Shown) — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

**1L. Framing Members\* — Floor and Ceiling Runner** — (Not Shown) — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.  
**RESCUE METAL FRAMING, L L C** — AlphaTRAK

**1M. Framing Members\* — Floor and Ceiling Runners** — (Not Shown) — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.  
**RONDO BUILDING SERVICES PTY LTD** — Rondo Wall Track

**1N. Framing Members\* — Floor and Ceiling Runners** — (Not Shown) — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.  
**OEG BUILDING MATERIALS** — OEG Track

**1O. Framing Members\* — Floor and Ceiling Runner** — (Not Shown) — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.  
**CEMCO, LLC** — Viper X Track

**1P. Framing Members\* — Floor and Ceiling Runner** — (Not Shown) — Alternate to Item 1) — For use with Item 2R, channel shaped runners pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max.  
**HYPERFRAME INC** - Hypertrack

**1Q. Framing Members\* — Floor and Ceiling Runner** — (Not Shown) — In lieu of Item 1 — For use with Item 2S, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

**JJC INTERNATIONAL DISTRIBUTORS** — Non-structural Tracks 3-5/8" and 6".

**2. Steel Studs** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

**2A. Steel Studs** — (As an alternate to Item 2. For use with Items 5B, 5E, 5H, 5J or Type ULIX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

**2B. Framing Members\* - Steel Studs** — (As an alternate to Item 2. For use with Items 5C, 5I or Type ULIX) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.  
**CEMCO, LLC** — Viper25™

**CRACO MFG INC** — SmartStud25™

**MARINO/WARE, DIV OF WARE INDUSTRIES INC** — Viper25™

**IMPERIAL MANUFACTURING GROUP INC** — Viper25™

**2C. Framing Members\* — Steel Studs** — (Not Shown) — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.  
**CEMCO, LLC** — Viper20™

**MARINO/WARE, DIV OF WARE INDUSTRIES INC** — Viper20™

**IMPERIAL MANUFACTURING GROUP INC** — Viper20™

**2D. Framing Members\* — Steel Studs** — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.  
**ALLSTEEL & GYPSUM PRODUCTS INC** — Type SUPREME D24/30EQD and Type SUPREME D20

**CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV** — Type SUPREME D24/30EQD and Type SUPREME D20

**QUAIL RUN BUILDING MATERIALS INC** — Type SUPREME D24/30EQD and Type SUPREME D20

**SCAFCO STEEL STUD MANUFACTURING CO** — Type SUPREME D24/30EQD and Type SUPREME D20

**STEEL CONSTRUCTION SYSTEMS INC** — Type SUPREME D24/30EQD and Type SUPREME D20

**TELLING INDUSTRIES L L C** — Type SUPREME D24/30EQD and Type SUPREME D20

**UNITED METAL PRODUCTS INC** — Type SUPREME D24/30EQD and Type SUPREME D20

**2E. Framing Members\* — Steel Studs** — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULIX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.  
**CLARKDIETRICH BUILDING SYSTEMS** — CD ProSTUD

**DMFCWBS L L C** — ProSTUD

**MBA METAL FRAMING** — ProSTUD

**RAM SALES L L C** — Ram ProSTUD

**STEEL STRUCTURAL PRODUCTS L L C** — Tri-S ProSTUD

**2F. Framing Members\* — Steel Studs** — (Not Shown) — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.  
**SUPER STUD BUILDING PRODUCTS** — The Edge

**2G. Framing Members\* — Steel Studs** — (Not Shown) — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.  
**STUDCO BUILDING SYSTEMS** — CROCSTUD

**2H. Framing Members\* — Steel Studs** — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.  
**TELLING INDUSTRIES L L C** — TRUE-STUD™

**2I. Framing Members\* — Steel Studs** —

**2J. Framing Members\* — Metal Studs** — (Not Shown) — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

**2K. Framing Members\* — Steel Studs** — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.  
**EB METAL INC** — NITROSTUD

**2L. Framing Members\* — Steel Studs** — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.  
**OLMAR SUPPLY INC** — PRIMESTUD

**2M. Framing Members\* — Steel Studs** — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.  
**MARINO/WARE, DIV OF WARE INDUSTRIES INC** — StudRite™

**2N. Framing Members\* — Steel Studs** — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.  
**RESCUE METAL FRAMING, L L C** — AlphaSTUD

**2O. Framing Members\* — Steel Studs** — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.  
**RONDO BUILDING SERVICES PTY LTD** — Rondo Lipped Wall Stud

**2P. Framing Members\* — Steel Studs** — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.  
**OEG BUILDING MATERIALS** — OEG Stud

**2Q. Framing Members\* — Steel Studs** — (Not Shown) — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.  
**CEMCO, LLC** — Viper X

**2R. Framing Members\* — Steel Studs** — (Not Shown) — Alternate to Item 2. For use with Item 1P) — Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. depth, spaced a max of 24 in. OC. Studs clipped into floor and ceiling runners (Item 1P). Max 2-3/8 in. extension reveal from top of stud to inside of ceiling runner.

**HYPERFRAME INC** — Hyperstud

**2S. Framing Members\* — Steel Studs** — (Not Shown) — In lieu of Item 2 — For use with Item 1Q, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

**JJC INTERNATIONAL DISTRIBUTORS** — Non-structural Studs 3-5/8" and 6".

**3. Wood Structural Panel Sheathing** — (Optional. For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC P51 or P52, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

**4. Batts and Blankets\*** — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.  
See **Batts and Blankets** (BKNV or BZIZ) Categories for names of Classified companies.

**4A. Batts and Blankets\*** — (Optional – as an alternate to item 4) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.  
See **Batts and Blankets** (BKNV or BZIZ) Categories for names of Classified companies.

**4B. Fiber, Sprayed\*** — (Optional – as an alternate for items 4 or 4A, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCA2).  
**AMERICAN ROCKWOOL MANUFACTURING, LLC** — Type Rockwool Premium Plus

**4C. Foamed Plastic\*** — (As an alternate for Items 4, 4A or 4B, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

**CARLISLE SPRAY FOAM INSULATION** — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCK, SealTite Pro No Trim Z1, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

**4D. Foamed Plastic\*** — (As an alternate for items 4, 4A or 4B, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

**BAF CORP** - Enerlite® NM, Enerlite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite HP-, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, Walltite® XL, and Walltite® MAX

**5. Gypsum Board\*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Rating, Hr	Gypsum Board Protection on Each Side of Wall		
	Min Stud Depth, in.	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

**CGC INC** — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — 1/2 in. thick Type C and 5/8 in. thick Type SCX

**UNITED STATES GYPSUM CO** — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

**USG BORAL DRYWALL SFZ LLC** — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

**USG MEXICO S A DE C V** — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members\***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

**5A. Gypsum Board\*** — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.  
**CGC INC** — Type SHX.

**UNITED STATES GYPSUM CO** — Type FRX-G, SHX.

**USG MEXICO S A DE C V** — Type SHX.

**5B. Gypsum Board\*** — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type 5-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

**RAY-BAR ENGINEERING CORP** — Type RB-LBG

SEAL

**Preliminary**  
02/23/2024 3:47:17 PM

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PROJECT NAME:  
**MOHAVE COUNTY SHERIFF'S OFFICE T.I. LAKE HAVASU CITY, ARIZONA**  
6634 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD

**SELBERG ASSOCIATES INC.**  
ARCHITECTURE & PLANNING

2130 MESQUITE AVE | SUITE 204  
LAKE HAVASU CITY | ARIZONA 86403  
(928) 955-5544

PROJECT NO. **23089**

ISSUED FOR: **PERMIT SET**

ISSUED DATE: **FEBRUARY 15, 2024**

5C. **Gypsum Board\*** — (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

**CGC INC** — Type SCX, ULIX.

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — Type SCX

**UNITED STATES GYPSUM CO** — Type SCX, SGX, ULIX.

**USG BORAL DRYWALL SFZ LLC** — Type SCX

**USG MEXICO S A DE C V** — Type SCX

5D. **Gypsum Board\*** — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

**CGC INC** — Type USGX

**UNITED STATES GYPSUM CO** — Type USGX

**USG BORAL DRYWALL SFZ LLC** — Type USGX

**USG MEXICO S A DE C V** — Type USGX

5E. **Gypsum Board\*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long angle head fine drillier) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

**NEW ENGLAND LEAD BURNING CO INC, DBA NELCO** — Nelco

5F. **Gypsum Board\*** — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — Type SCX

**UNITED STATES GYPSUM CO** — 5/8 in. thick Type SCX, SGX, ULIX

**USG BORAL DRYWALL SFZ LLC** — 5/8 in. thick Type SCX, SGX

5G. **Gypsum Board\*** — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Rating, Hr	Gypsum Board Protection on Each Side of Wall Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

**CGC INC** — 1/2 in. thick Type C, IP-X2 or IPC-AR; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-X3 or ULTRACODE

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — 1/2 in. thick Types C and 5/8 in. thick SCX

**UNITED STATES GYPSUM CO** — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C., FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE

**USG BORAL DRYWALL SFZ LLC** — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

**USG MEXICO S A DE C V** — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board\*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).

**MAVCO INDUSTRIES INC** — Type X-Ray Shielded Gypsum

5I. **Gypsum Board\*** — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

**CGC INC** — Type ULIX, ULX

**UNITED STATES GYPSUM CO** — Type ULIX, ULX

**USG MEXICO S A DE C V** — Type ULX

5J. **Gypsum Board\*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in., placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in.

thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

**RADIATION PROTECTION PRODUCTS INC** — Type RPP - Lead Lined Drywall

5K. **Gypsum Board\*** — (As an alternate to Item 5 when Foam Plastic insulation (Items 4C or 4D) is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC.

6. **Fasteners** — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Single layer system with Type ULIX:** 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. **Furring Channels** — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. **Framing Members\*** — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

**a. Furring Channels** — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

**b. Steel Framing Members\*** — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet, RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. **PAC INTERNATIONAL L L C** — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. **Framing Members\*** — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:

**a. Furring Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

**b. Steel Framing Members\*** — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips. **KINETICS NOISE CONTROL INC** — Type Isomax

7C. **Framing Members\*** — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

**a. Furring Channels** — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

**b. Steel Framing Members\*** — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. **PLITEQ INC** — Type GENIECLIP

7D. **Steel Framing Members\*** — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:

**a. Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

**b. Steel Framing Members\*** — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips **STUDCO BUILDING SYSTEMS** — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. **Steel Framing Members\*** — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:

**a. Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

**b. Steel Framing Members\*** — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. **REGUPOIL AMERICA** — Type SonusClip

7F. **Steel Framing Members\*** — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:

**a. Resilient Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E.

**b. Steel Framing Members\*** — Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. **KEENE BUILDING PRODUCTS CO INC** — Type RC+ Assurance Clip

7G. **Framing Members\*** — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

**a. Furring Channels** — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

**b. Steel Framing Members\*** — Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. **CLARLDIETRICH BUILDING SYSTEMS** — Type ClarkDietrich Sound Clip

8. **Joint Tape and Compound** — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. **Siding, Brick or Stucco** — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. **Caulking and Sealants\*** — (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control. **UNITED STATES GYPSUM CO** — Type AS

11. **Lead Batten Strips** — (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. **Lead Batten Strips** — (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. **Lead Discs or Tabs** — (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. **Lead Discs** — (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. **Lead Batten Strips** — (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs** — (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

15. **Barrier Mesh** — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw

patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.

**CLARLDIETRICH BUILDING SYSTEMS** — Barrier Mesh, Barrier Mesh Clips

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2024-02-16

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UL DESIGN NO. U419

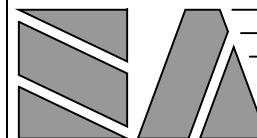
Preliminary

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PROJECT NAME:  
MOHAVE COUNTY SHERIFF'S OFFICE T.I.  
LAKE HAVASU CITY, ARIZONA  
6634 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD



SELBERG  
ASSOCIATES  
INC.  
ARCHITECTURE &  
PLANNING

2130 MESQUITE AVE | SUITE 204  
LAKE HAVASU CITY | ARIZONA | 86403  
(928) 955-8544

PROJECT NO. 23089

ISSUED FOR: PERMIT SET

ISSUED DATE: FEBRUARY 15, 2024

REVISION ISSUE DATE

SHEET TITLE:

FIRE ASSEMBLIES

SHEET NO.

A0.06

SEAL

# Preliminary

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### GENERAL SITE PLAN NOTES

1. ALL PROPERTY LINES, EASEMENTS AND BUILDINGS ARE SHOWN ON THIS SITE PLAN.
2. ACCESSIBLE ROUTE - ALL WALKS, HALLS, CORRIDORS, AISLES AND OTHER SPACES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE MINIMUM STANDARDS SET FORTH IN THE ADAG.
3. PROTRUDING OBJECTS - PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE.
4. PARKING STRIPING & TRAFFIC DESIGNATIONS TO BE 4" WIDE WHITE.
5. REFER TO GRADING PLANS FOR TOP OF RETAINING WALL AND GRADE ELEVATIONS.
6. ALL SITE ELEMENTS ARE EXISTING UNLESS OTHERWISE NOTED.

### PARKING CALCULATION

PER LAKE HAVASU CITY DEVELOPMENT CODE, TABLE 4.02-1.

PARKING FACILITY: NO REQUIREMENT

PUBLIC SAFETY FACILITY: 1 SPACE PER 300 SQUARE FEET OF GROSS FLOOR AREA.  
 $6,278 / 300 = 20.9 = 21$

WAREHOUSE: 1 SPACE PER 2,000 SQUARE FEET OF GROSS FLOOR AREA.  
 $4,391 / 2,000 = 2.2 = 3$

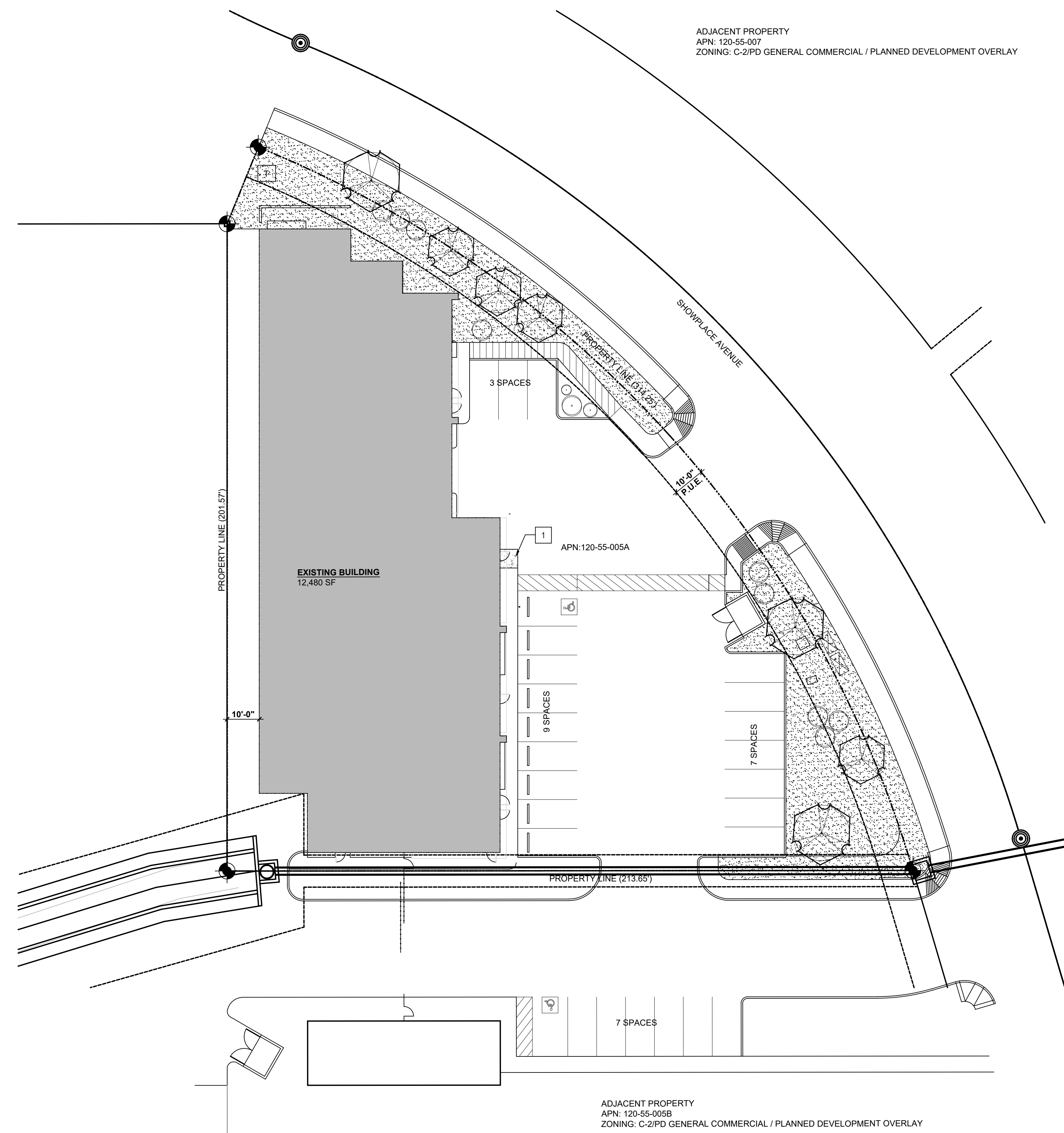
24 SPACES REQUIRED

33 SPACES PROVIDED  
 -7 SPACES ARE PROVIDED INSIDE OF THE BUILDING.  
 -26 SPACES ARE PROVIDED OUTSIDE OF THE BUILDING.

2 ACCESSIBLE SPACES REQUIRED  
 2 ACCESSIBLE SPACES PROVIDED

### SITE PLAN KEYNOTES

- |   |  |
|---|--|
| 1 | EXTEND EXISTING SIDEWALK 6" PAST DOOR. |
|---|--|



1

## SITE PLAN

1" = 20'-0"

PROJECT NAME:  
**MOHAVE COUNTY SHERIFF'S OFFICE T.I.**  
**LAKE HAVASU CITY, ARIZONA**  
 6534 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD

**SELBERG ASSOCIATES INC.**  
 ARCHITECTURE & PLANNING

2130 MESQUITE AVE | SUITE 204  
 LAKE HAVASU CITY | ARIZONA | 86403  
 (928) 955-8544

PROJECT NO. 23089

ISSUED FOR: PERMIT SET

ISSUED DATE: FEBRUARY 15, 2024

REVISION ISSUE DATE

SHEET TITLE: SITE PLAN

SHEET NO. **A1.01**

**GENERAL NOTES:**

- ALL ITEMS ARE EXISTING TO REMAIN U.N.O.
- ALL WORK SHALL CONFORM WITH ALL THE PROVISIONS OF THE 2018 INTERNATIONAL BUILDING CODE AND ALL APPLICABLE CODE ORDINANCES HAVING JURISDICTION.
- ALL DIMENSIONS ARE TO STRUCTURAL GRID, FACE OF CONCRETE OR FACE OF STUD, UNLESS NOTED OTHERWISE. DIMENSIONS NOTED AS "CLR." OR "CLR." ARE TO FACE OF FINISH MATERIAL.
- WHEN NOTED AS "ALIGN", FACE OF FINISHES ARE TO ALIGN.
- PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED MILLWORK AND EQUIPMENT. PROVIDE SHEET METAL BLOCKING FOR ALL RESTROOM ACCESSORY BLOCKING.
- CONTRACTOR TO PROVIDE THE CORRECT NUMBER OF LIFE SAFETY DEVICES AS REQUIRED BY FIRE MARSHAL.
- ALL INTERIOR WALLS ARE FULL HEIGHT U.N.O.
- ALL DOOR PANELS TO BE LOCATED 3" MIN. FROM THE PERPENDICULAR ADJACENT WALL, UNLESS DIMENSIONED OTHERWISE.
- REFER TO INTERIOR ELEVATION PLANS FOR DETAILED INFORMATION.
- REFER TO FINISH FLOOR PLAN A2.02 FOR FINISH SPECIFICATIONS.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND STRUCTURE LOCATIONS. EXISTING INFORMATION GIVEN IS BASED ON AVAILABLE DRAWINGS AND MAY NOT NECESSARILY REPRESENT THE ACTUAL AS BUILT CONDITIONS.
- GENERAL CONTRACTOR AND ELECTRICAL SUBCONTRACTOR TO CONDUCT A FIELD INSPECTION WITH OWNER'S REPRESENTATIVE AFTER ELECTRICAL ROUGH-IN IS COMPLETE TO ENSURE PROPER OUTLET LOCATION AND HEIGHTS.

**FIRE EXTINGUISHER NOTES:**

- VERIFY EXACT LOCATION WITH LAKE HAVASU CITY FIRE DEPARTMENT PRIOR TO COMPLETION OF FRAMING. INSTALL APPROPRIATE BLOCKING IN WALL AT TOP AND BOTTOM OF CABINET. INSTALL CABINETS PER MANUFACTURER'S DETAILS AND WRITTEN INSTALLATION INSTRUCTIONS.
- FIRE EXTINGUISHERS SHALL BE CONSPICUOUSLY LOCATED WHERE THEY ARE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE IN THE EVENT OF FIRE.
- FIRE EXTINGUISHERS SHALL BE LOCATED ALONG NORMAL PATHS OF TRAVEL, INCLUDING EXITS FROM AREAS.
- FIRE EXTINGUISHERS SHALL NOT BE OBSTRUCTED OR OBSCURED FROM VIEW.

**ACCESS CONTROL NOTE:**

GENERAL CONTRACTOR TO PREPARE ALL NEW AND EXISTING OPENINGS TO THE EXTERIOR AND DOORS:

101  
103  
110A  
114A  
117A  
119A  
145

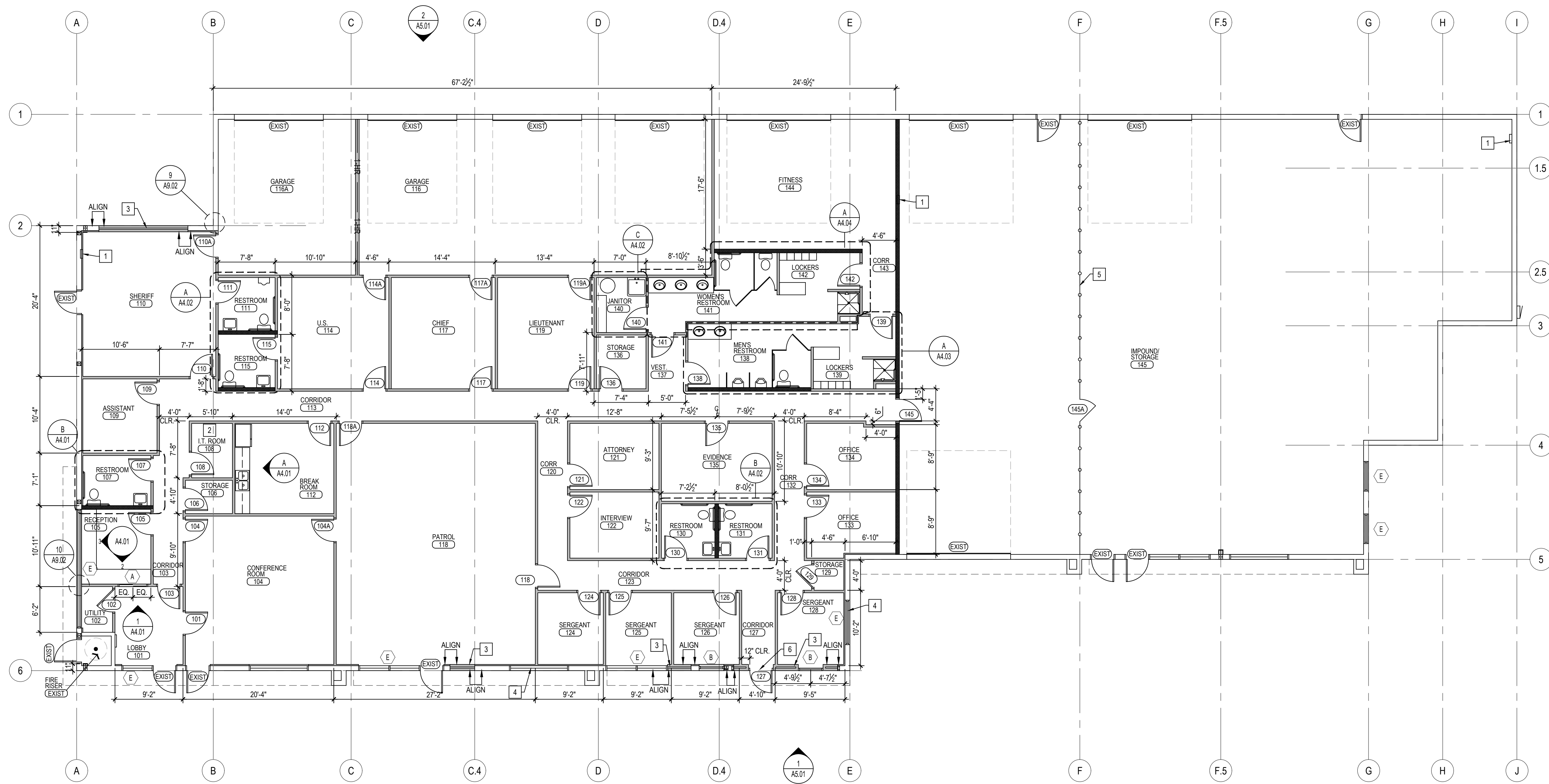
FOR FUTURE ACCESS CONTROL BY PROVIDING A 1/2" Ø CONDUIT TO BOTH THE STRIKE AND LATCH SIDE OF DOORS NOTED.

**FLOOR PLAN KEYNOTES:**

- |   |   |
|---|---|
| 1 | ELECTRICAL PANEL PER ELEC. DWGS.  |
| 2 | TELEPHONE MOUNTING BOARD PER ELEC. DWGS.                                      |
| 3 | INFILL WALL PER WALL LEGEND   |
| 4 | REPLACE GLASS WITH 1" SPANDREL GLASS  |
| 5 | 6' HT. REFINISHED CHAIN LINK FENCING. SEE DETAIL 149.01                       |
| 6 | PROVIDE SELF-LEVELING CONCRETE TO ENSURE CONCRETE IS LEVEL FOR DOOR THRESHOLD |

**WALL LEGEND**

- EXTERIOR WALL  
EXISTING WALL
- EXTERIOR WALL  
(2) 3/8" X 20 GA. METAL STUDS @ 16" O.C. W/ METAL PANEL TO MATCH EXISTING ON EXTERIOR SIDE AND 5/8" TYPE X GYPSUM BOARD ON INTERIOR SIDE. ALIGN EACH WALL TO MATCH THE INTERIOR AND EXTERIOR FINISH.
- EXTERIOR WALL  
EXISTING WALL W/ 1 1/2" X 20 GA. HAT CHANNELS @ 24" O.C. W/ 5/8" TYPE X GYPSUM BOARD ON INTERIOR SIDE.
- INTERIOR WALL  
3/8" X 20 GA. METAL STUDS @ 16" O.C. W/ 1 LAYER 5/8" TYPE X GYPSUM BOARD ON EACH SIDE. INSTALL R-11 BATT INSULATION.
- INTERIOR WALL  
8" X 20 GA. METAL STUDS @ 16" O.C. W/ 1 LAYER 5/8" TYPE X GYPSUM BOARD ON EACH SIDE. INSTALL R-19 BATT INSULATION.
- INTERIOR WALL  
8" X 20 GA. METAL STUDS @ 16" O.C. W/ 1 LAYER 5/8" TYPE X GYPSUM BOARD ON EACH SIDE. INSTALL R-19 BATT INSULATION.  
RATING: 1-HOUR  
UL-TEST NO. - U419



**1 OVERALL FLOOR PLAN**  
 1/8"=1'-0"  
 (EXIST) = EXISTING DOOR AND FRAME  
 (E) = EXISTING WINDOW



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PROJECT NAME:  
**MOHAVE COUNTY SHERIFF'S OFFICE T.I.**  
**LAKE HAVASU CITY, ARIZONA**  
 6534 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD  
  
**SELBERG ASSOCIATES INC.**  
 ARCHITECTURE & PLANNING  
 2130 MESQUITE AVE | SUITE 204  
 LAKE HAVASU CITY | ARIZONA | 86403  
 (928) 955-9544

PROJECT NO. 23089  
 ISSUED FOR: PERMIT SET  
 ISSUED DATE: FEBRUARY 15, 2024  
 REVISION ISSUE DATE

SHEET TITLE:  
 FINISH FLOOR PLAN

SHEET NO.  
**A2.02**

**FINISH FLOOR PLAN NOTES**

- CONTRACTORS TO SUBMIT ONE PRODUCT SAMPLE ILLUSTRATING THE PROFILE AND COLOR OF EACH FINISH. ALL PROPOSED SUBSTITUTIONS TO BE SUBMITTED FOR OWNERS' APPROVAL WITH MANUFACTURER LITERATURE AND INSTALLATION INSTRUCTIONS.
  - ALL INTERIOR WOOD DOORS TO BE PREFINISHED DOORS.
  - CURE AND SEAL ALL EXPOSED CONCRETE SURFACES WITH 2-COATS OF ARMORSEAL REXTHANE 1, AS MANUFACTURED BY SHERMAN WILLIAMS, OR APPROVED EQUAL BY THE OWNER.
  - PRIME AND PAINT ALL EXPOSED GYPSUM BOARD SURFACES TO MEET OR EXCEED SHERMAN WILLIAMS, OR APPROVED EQUAL BY THE OWNER.
  - GYPSUM BOARD SURFACE FINISH TO BE DETERMINED BY THE OWNER AND THE ARCHITECT, OR AS REQUIRED BY WALL FINISH MANUFACTURER BEING INSTALLED OVER GYPSUM BOARD.
  - LEVEL 3: ALL JOINTS AND INTERIOR ANGLES SHALL HAVE TAPE EMBEDDED IN JOINT COMPOUND AND ONE ADDITIONAL COAT OF JOINT COMPOUND APPLIED OVER ALL JOINTS AND INTERIOR ANGLES. FASTENER HEADS AND ACCESSORIES SHALL BE COVERED WITH TWO SEPARATE COATS OF JOINT COMPOUND. ALL JOINT COMPOUND SHALL BE SMOOTH AND FREE OF TOOL MARKS AND RIDGES. NOTE: IT IS RECOMMENDED THAT THE PREPARED SURFACE BE COATED WITH A DRYWALL PRIMER PRIOR TO THE APPLICATION OF THE FINAL FINISH.
  - ALL PAINTED INTERIOR GYPSUM BOARD WALLS TO RECEIVE ONE COAT OF PRIMER AND TWO COATS OF SATIN LATEX ENAMEL PAINT.
  - MOISTURE RESISTANT GYPSUM BOARD IN RESTROOMS SHALL RECEIVE 1 COAT PRIMER W/ 2 COATS SEMI-GLOSS ENAMEL PAINT.
  - CABINETS ELEVATIONS ARE SCHEMATIC IN DESIGN. VERIFY ALL CABINETS DESIGN W/ OWNER PRIOR TO FABRICATION.
- MATERIALS:
- GYPSUM BOARD SHALL BE TYPE 'X' OR 'MR', AS MANUFACTURED BY CERTAINTEED, OR APPROVED EQUAL BY THE OWNER.
  - RUBBER BASE SHALL BE AS MANUFACTURED BY MOHAWK GROUP 4" RUBBER COVE WALL BASE OR APPROVED EQUAL BY OWNER. COLOR BY OWNER.
  - LVT SHALL BE AS MANUFACTURED BY MOHAWK GROUP. VIVID STEP WOOD, GROUNDED HATCH W132 OR APPROVED EQUAL BY OWNER.
  - RUBBER FLOORING SHALL BE AS MANUFACTURED BY RUBBER FLOORING DIRECT, RUBBER FLOORING ROLLS, BLACK, OR APPROVED EQUAL BY OWNER.
  - EXTERIOR COLOR TO BE MANUFACTURED BY SHERWIN WILLIAMS. COLOR TO MATCH EXISTING, OR APPROVED EQUAL BY OWNER.
  - INTERIOR PAINT TO BE MANUFACTURED BY SHERWIN WILLIAMS. WHITE SNOW SW541, OR APPROVED EQUAL BY OWNER.
  - FRP PANELS SHALL BE STANDARD FRP AS MANUFACTURED BY MARLITE, P100 WHITE, OR APPROVED EQUAL BY OWNER.
  - FLOOR/WALL TRANSITION (LOCATE FLOOR FINISH TRANSITIONS UNDER THE DOOR PANEL WHEN FINISH TRANSITIONS OCCUR AT DOORWAY)
  - LVT TO SEALED CONCRETE: RUBBER REDUCER BURKE MERCER 148 COLOR GRAY 204 OR APPROVED EQUAL BY THE OWNER.

**FINISH SCHEDULE**

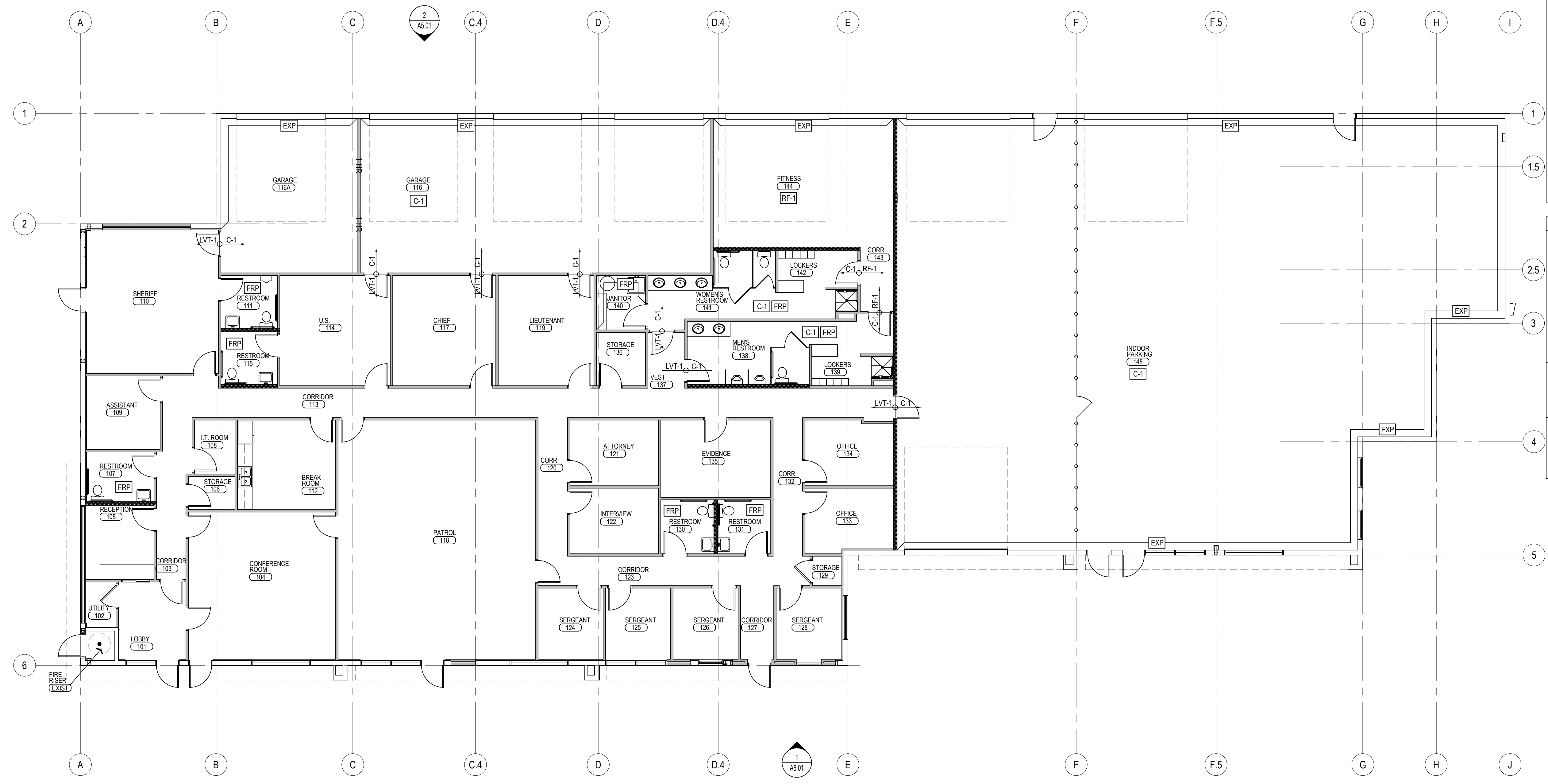
FLOOR FINISHES	
LVT-1	LUXURY VINYL TILE PER FINISH NOTES
RF-1	RUBBER FLOORING PER FINISH NOTES
C-1	SEALED CONCRETE
BASE FINISHES	
WB-1	RUBBER WALL BASE PER FINISH NOTES
WALL FINISHES	
PT-1	PAINT PER FINISH NOTES
FRP	FIBER REINFORCED PANEL AT 4' HEIGHT PER FINISH NOTES
EXP	EXPOSED

NOTES:

- VERIFY ALL COLORS WITH OWNER. REFER TO EXTERIOR ELEVATION FOR FACADE FINISHES REMARKS: WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATION IN 2018 I.B.C. TABLE 803.1.2

TYPICAL INSTALLATION

- EVERY SPACE SHALL HAVE THE FOLLOWING FINISHES UNLESS NOTED OTHERWISE IN PLAN:
- FLOOR FINISH: LVT-1
- WALL FINISH: PT-1
- WALL BASE: WB-1



**1 FINISH FLOOR PLAN**  
 1/8"=1'-0"



### CEILING PLAN GENERAL NOTES:

- ALL DIMENSIONS ON THIS SHEET ARE TO FINISH FACE OF WALLS, U.N.O.
- WHEN NOTED AS "ALIGN", FACE OF FINISHES ARE TO ALIGN
- LOCATION OF CEILING ACCESS PANELS ARE TO BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
- CLARIFY ALL FIXTURE TYPES WITH ELECTRICAL ENGINEER PRIOR TO INSTALLATION, NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO ORDERING.
- CENTER CEILING GRIDS IN BOTH DIRECTIONS OF A ROOM UNLESS NOTED OR DIMENSIONED OTHERWISE.
- ALL LIGHT FIXTURES TO BE CENTERED IN SPACE UNLESS DIMENSIONED OTHERWISE.
- ALL VERTICAL SURFACES OF SOFFITS TO BE SAME FINISH AS ADJACENT HORIZONTAL SURFACE, UNLESS NOTED OTHERWISE.
- WHEN AN AREA IS OPEN TO STRUCTURE, IT WILL BE PAINTED SCRM FACED STAPLED IN PLACE R-38 BATT INSULATION.
- REFER TO MECHANICAL AND ELECTRICAL DWGS. FOR FURTHER INFORMATION.

### CEILING LEGEND

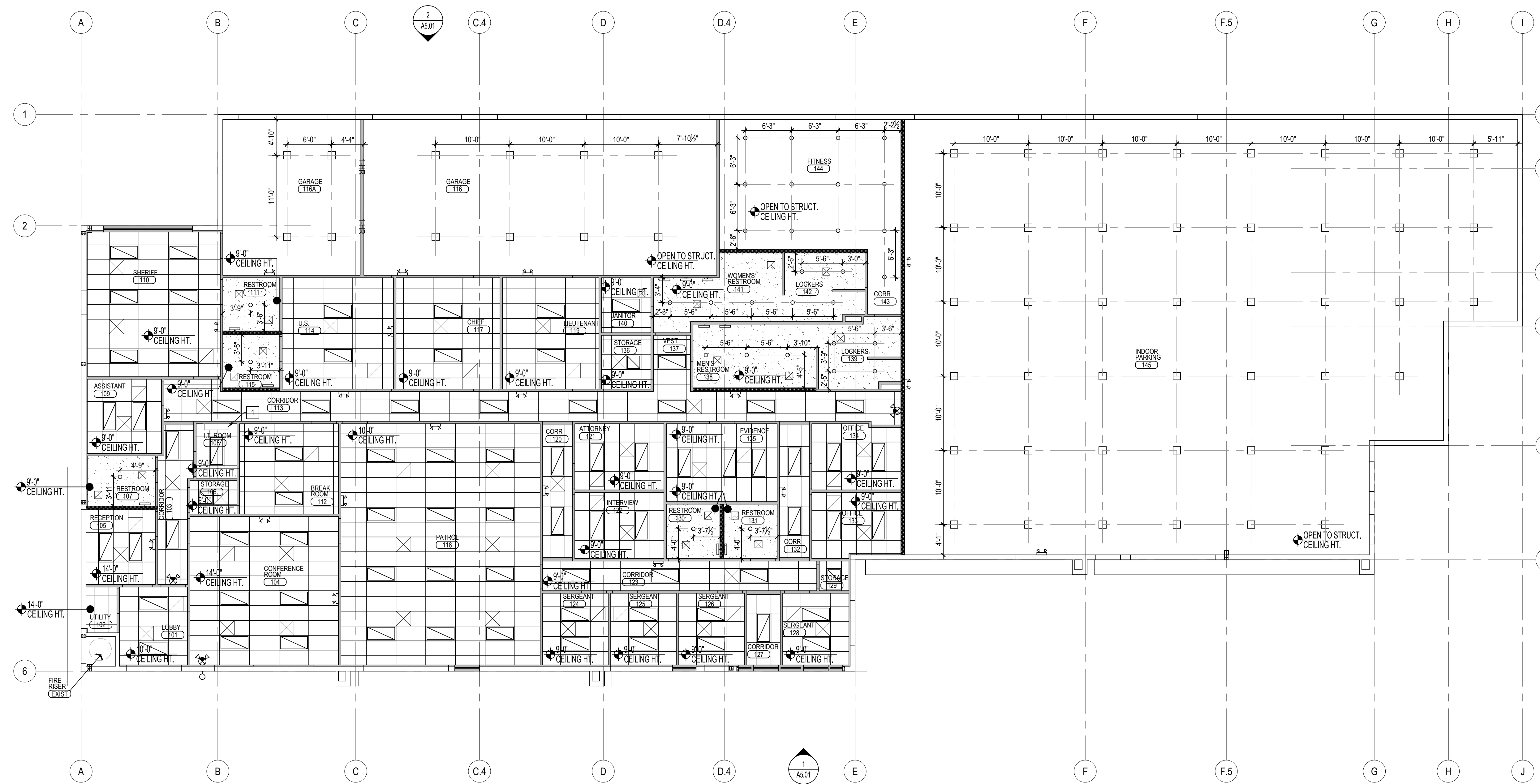
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### CEILING PLAN KEYNOTES:

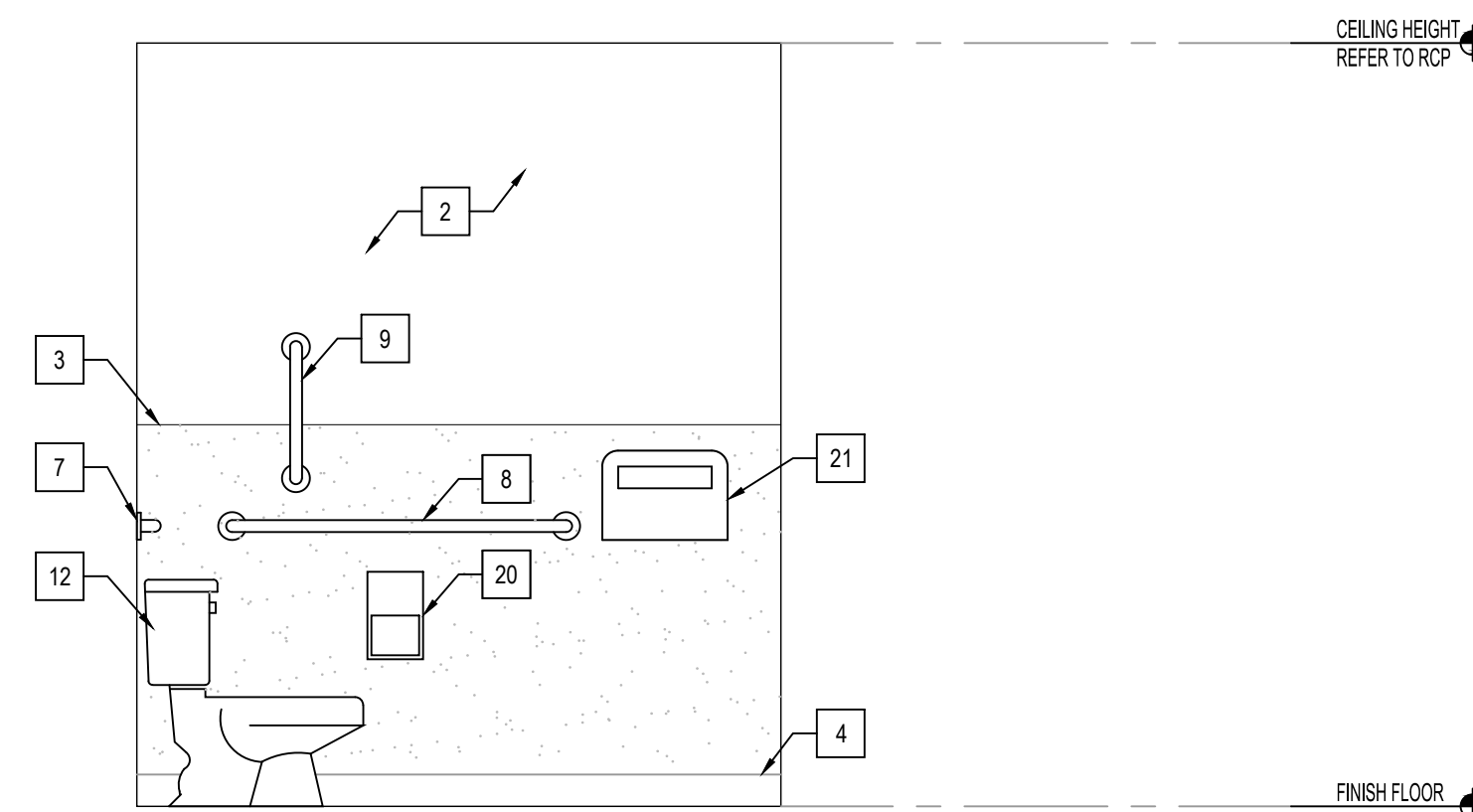
- WALL MOUNTED AIR CONDITIONING UNIT PER MECH. DWGS.

### CEILING DETAILS

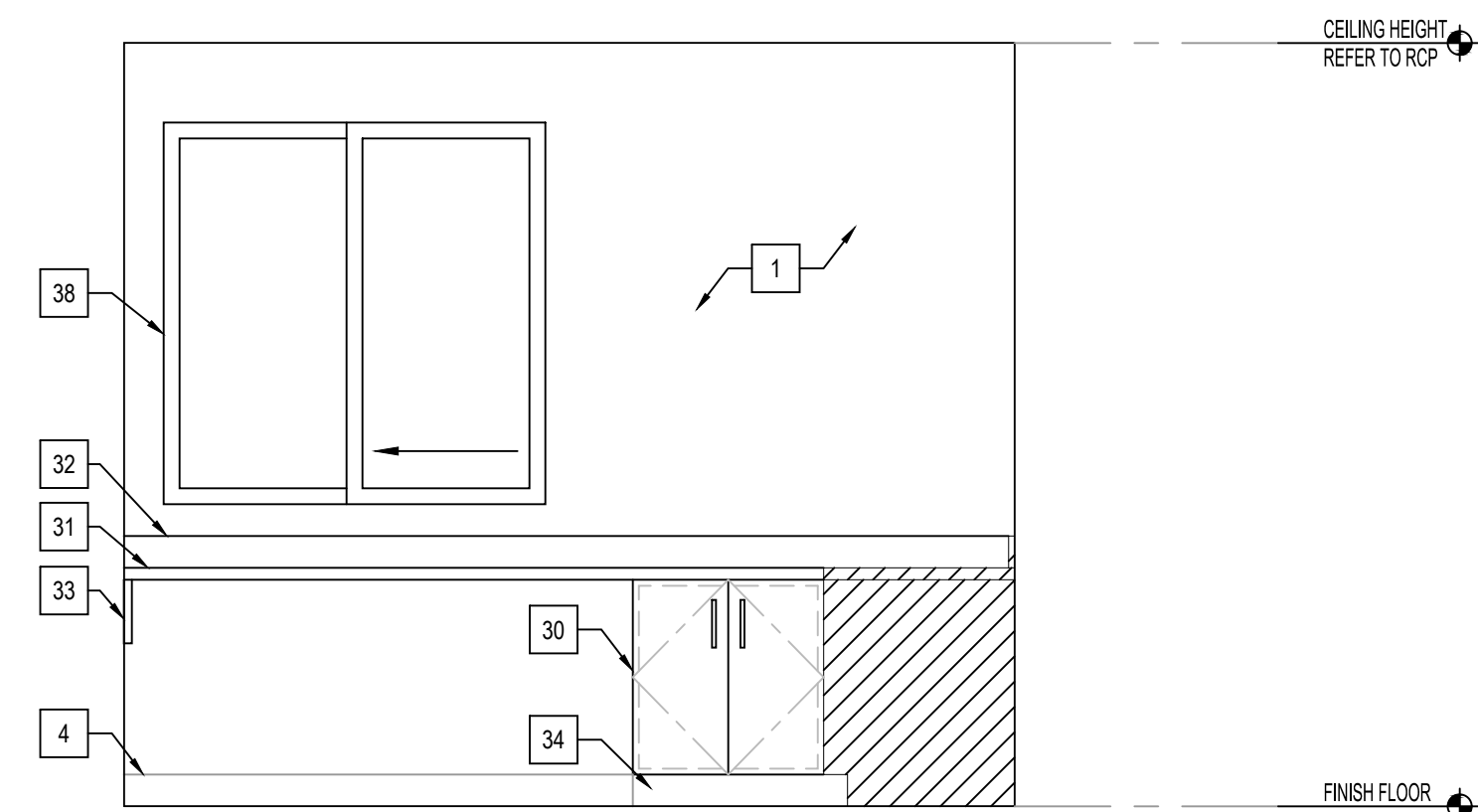
METAL STUD PARTIAL WALL BRACING PARALLEL/PERPENDICULAR TO PURLINS		
METAL STUD WALL BRACING UP TO DECT PARALLEL/PERPENDICULAR TO PURLINS		
TYPICAL SUSPENDED CEILING DETAIL		
TYPICAL GYPSUM BOARD CEILING FRAMED AT WALL PARALLEL/PERPENDICULAR TO JOISTS		
TYPICAL GYPSUM BOARD & LAY-IN CEILING TRANSITION DETAIL		
TYPICAL GYPSUM BOARD HEADER & LAY-IN CEILING TRANSITION DETAIL		



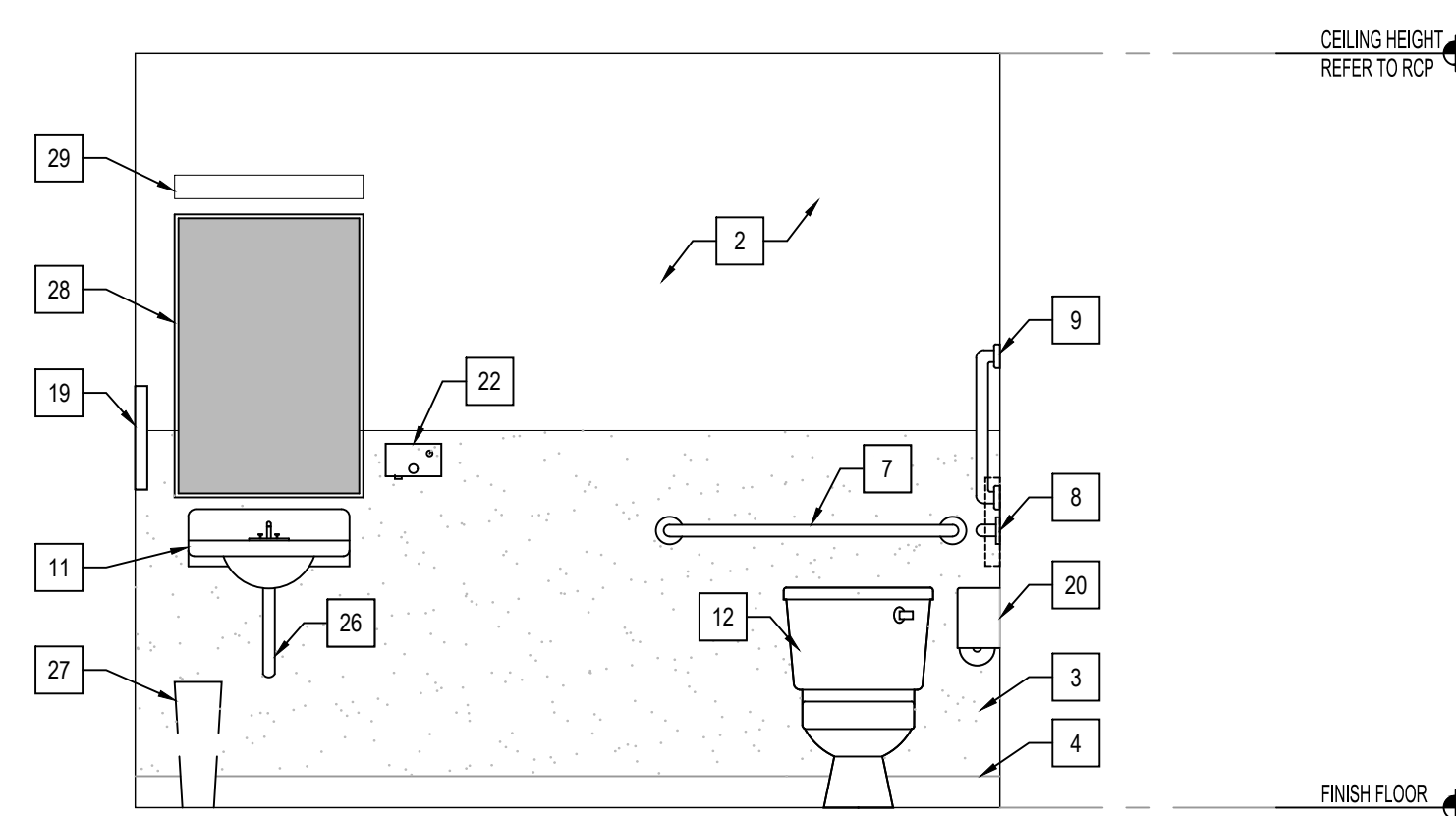
**REFLECTED CEILING PLAN**  
1  
1/8"=1'-0"



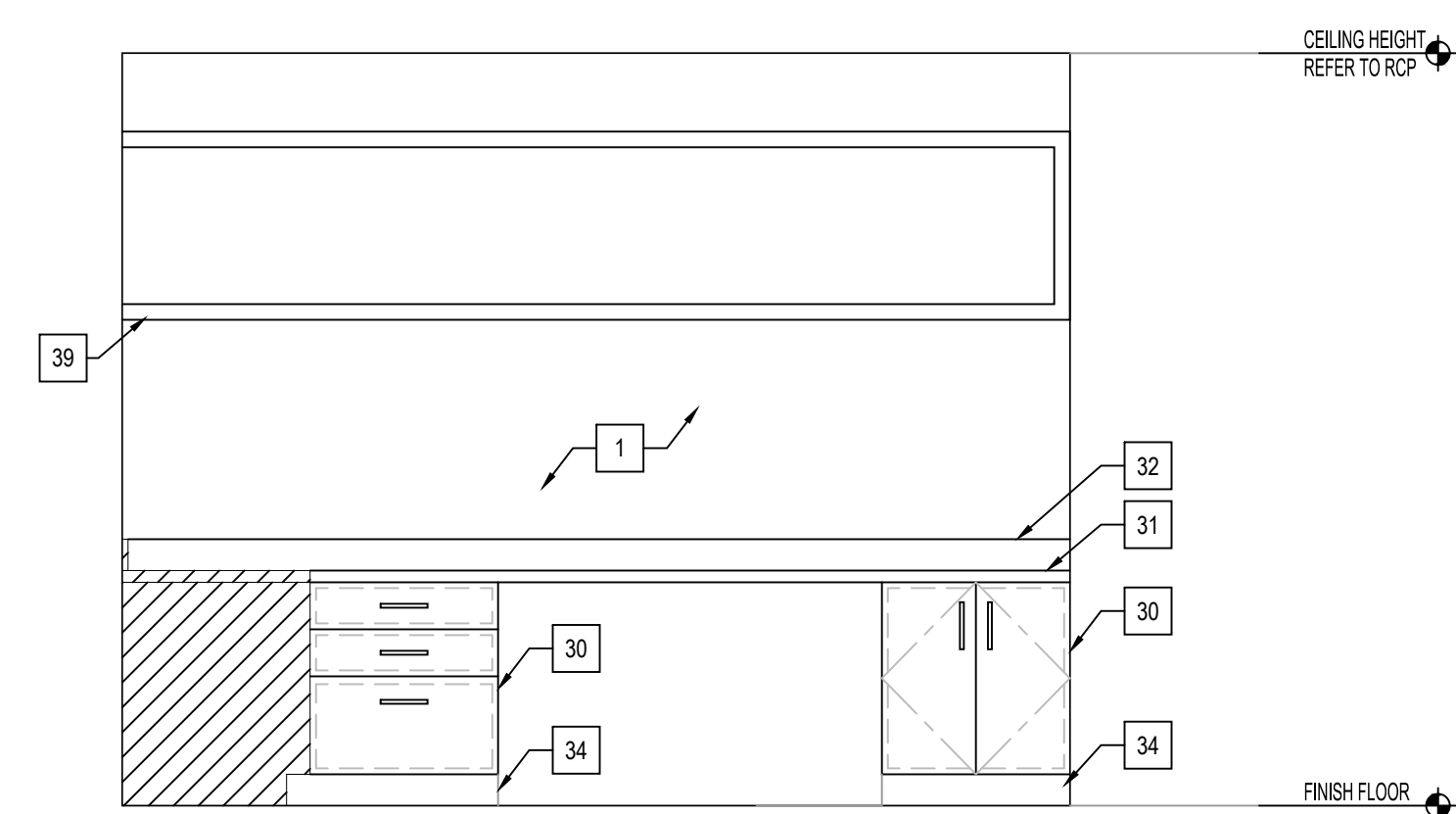
**6 INTERIOR ELEVATION**  
1/2" = 1'-0"



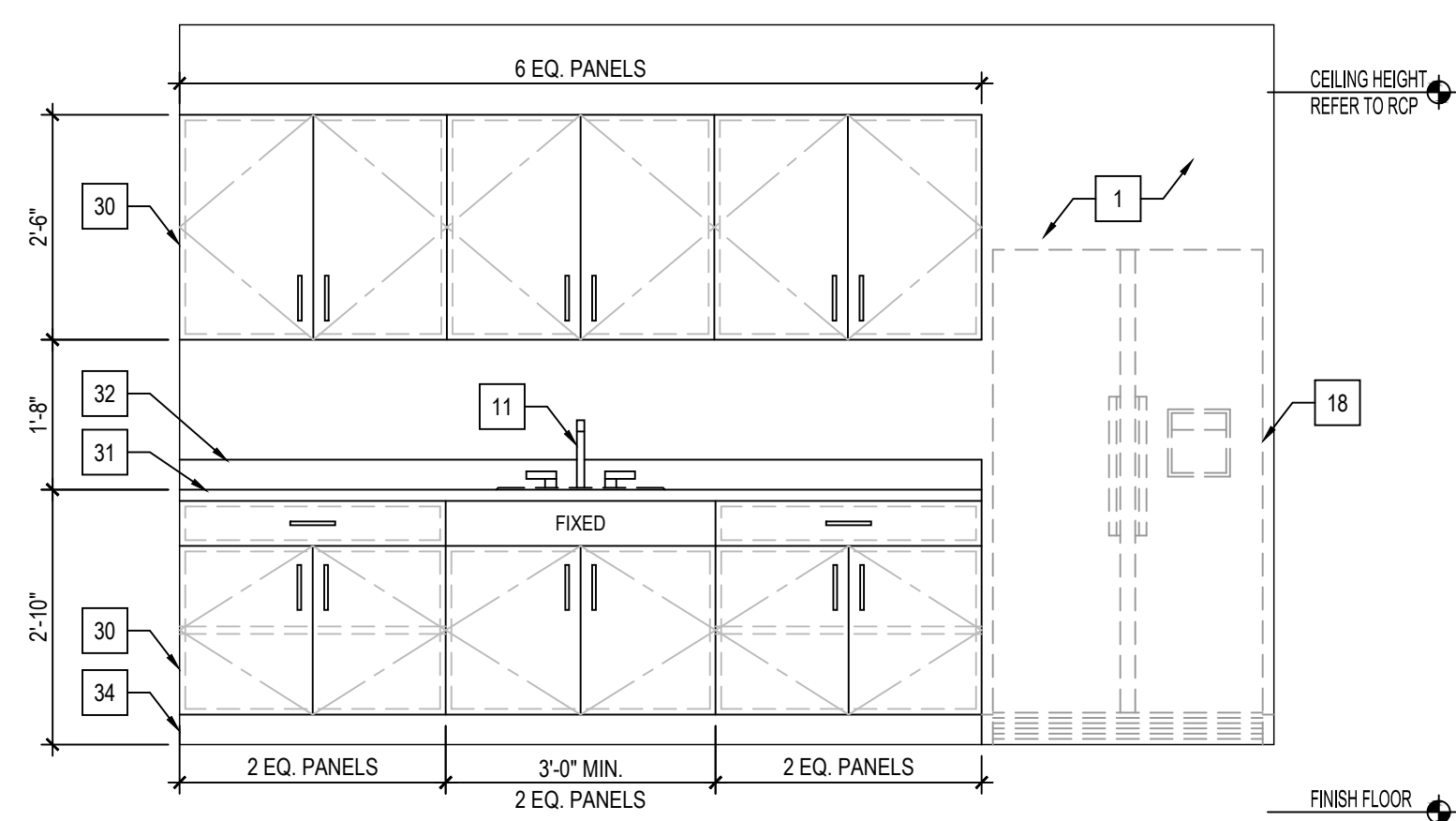
**2 INTERIOR ELEVATION**  
1/2" = 1'-0"



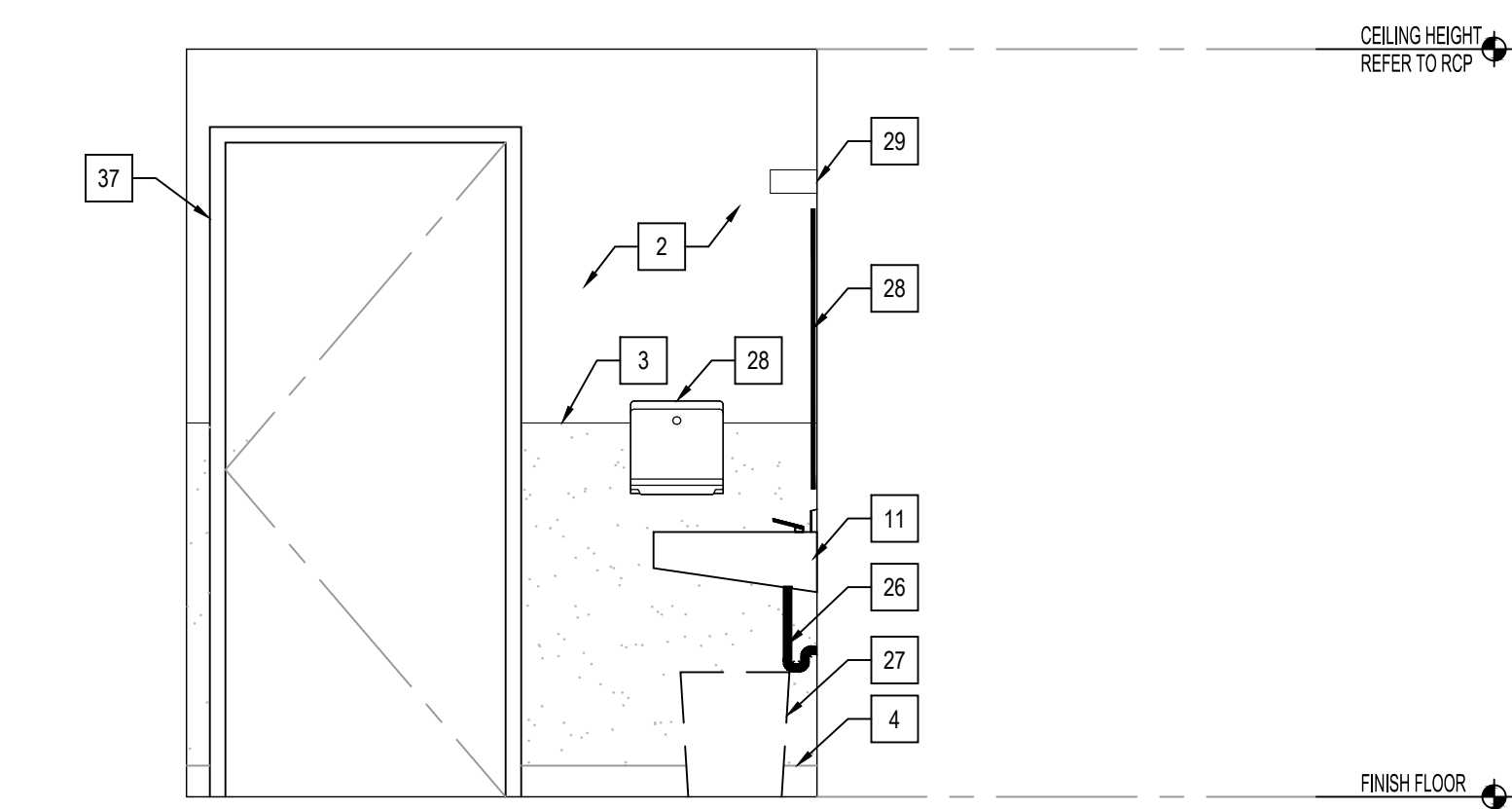
**7 INTERIOR ELEVATION**  
1/2" = 1'-0"



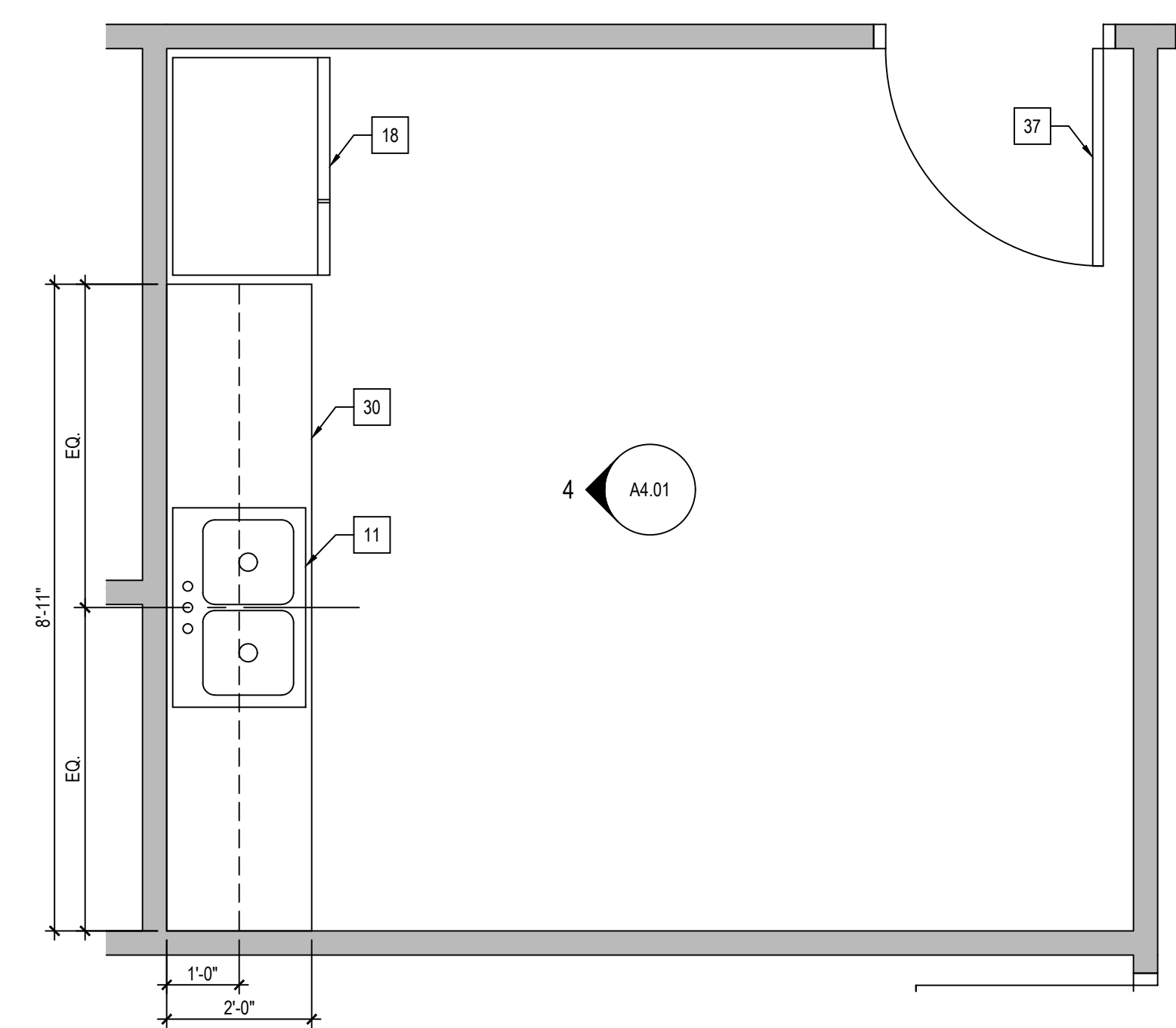
**3 INTERIOR ELEVATION**  
1/2" = 1'-0"



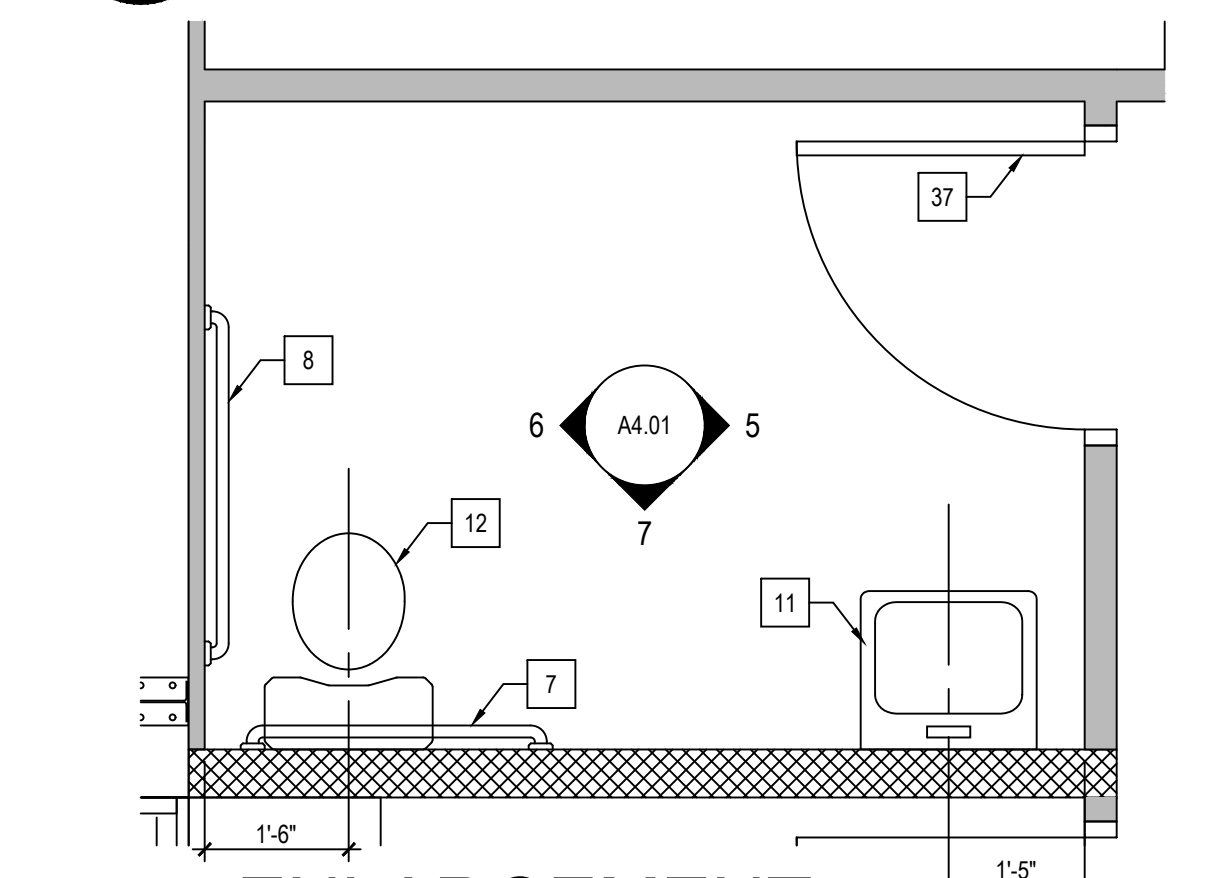
**4 INTERIOR ELEVATION**  
1/2" = 1'-0"



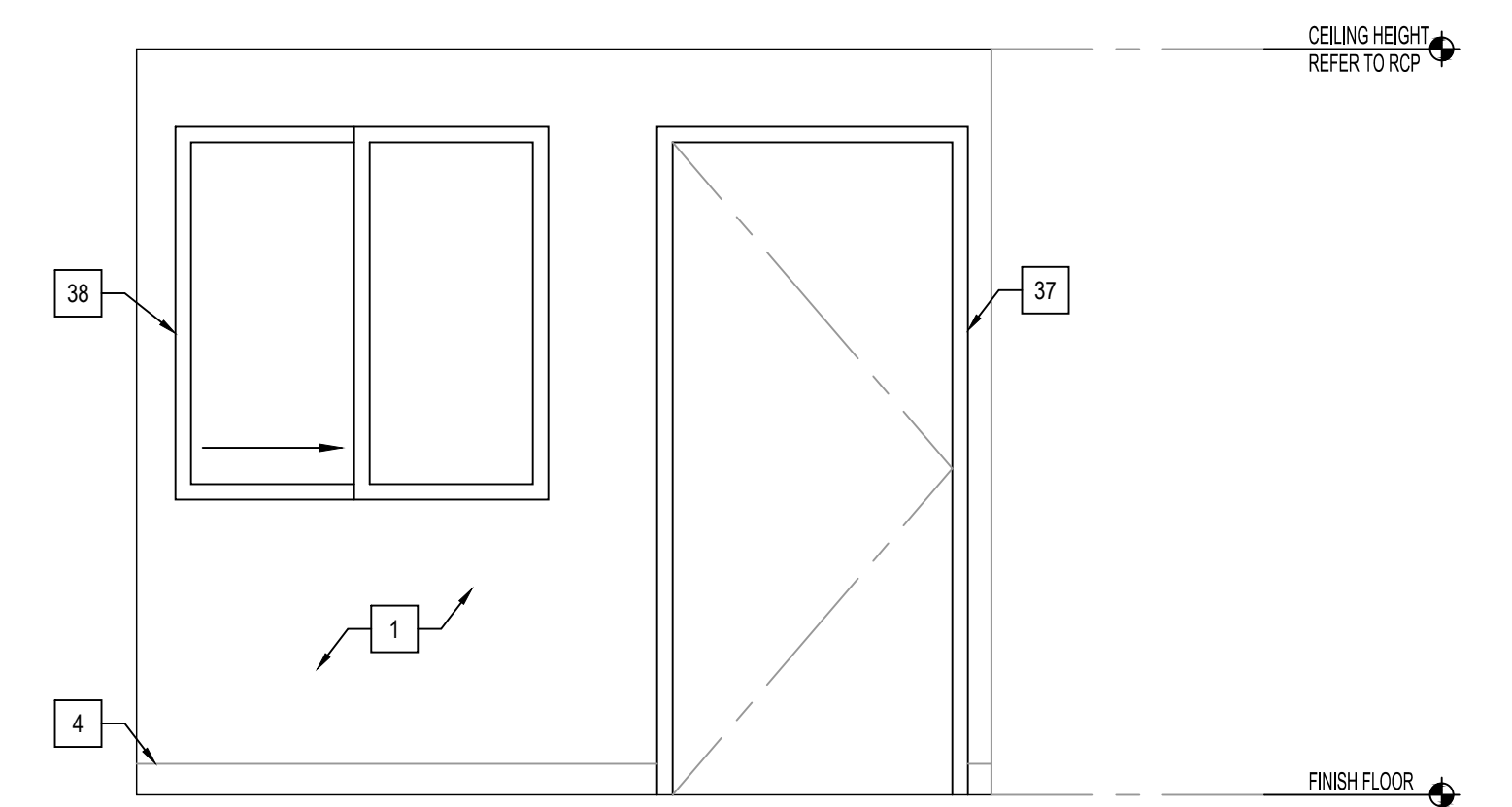
**5 INTERIOR ELEVATION**  
1/2" = 1'-0"



**A ENLARGEMENT BREAKROOM 112**  
1/2" = 1'-0"



**B ENLARGEMENT RESTROOM 107**  
1/2" = 1'-0"



**1 INTERIOR ELEVATION**  
1/2" = 1'-0"

**GENERAL NOTES:**

**RESTROOM NOTES:**

- SEE SHEET A0.03 & A0.04 FOR ACCESSIBILITY DETAILS AND MOUNTING HEIGHTS.
- WATER CLOSET CONTROLS, THE FAUCET CONTROLS FOR LAVS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST & HAVE AN OPERATING FORCE NOT GREATER THAN 5 LBS.
- THE CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AT NO MORE THAN 44" A.F.F.
- PROVIDE 6" X 18 GA. STEEL BACKING FOR GRAB BARS ATTACHED DIRECTLY TO STUDS. PROVIDE AT ALL GRAB BARS.
- PER 2018 IBC SECTION 2902.4, A LEGIBLE SIGN DESIGNATING THE SEX SHALL BE PROVIDED IN A READILY VISIBLE LOCATION NEAR THE ENTRANCE TO EACH TOILET FACILITY.
- PER 2018 IBC SECTION 1111.1, REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT THE ALL LOCATIONS.

**SEALANT NOTES:**

- SEALANTS SHALL BE USED ONLY IN STRUCTURALLY SOUND JOINTS AND SEAMS.
- SEALANTS MAY BE USED TO FILL SPACES AND OPENINGS SUCH AS, BUT NOT LIMITED TO, BLIND RIVET HEADS AND SLOT, PHILLIPS HEAD SCREWS, AND BATHROOM ACCESSORIES.
- OPENINGS AROUND SERVICE AND UTILITY LINES SHOULD BE CLOSED IN SO FAR AS PRACTICAL BY USING COLLARS OR GROMMETS, OR FLEXIBLE FORM GASKETS.
- SEALANTS MAY BE USED TO SEAL SERVICE UTILITY LINES TO WALLS OR ADJACENT PIECES OF EQUIPMENT WHERE THE SPACING IS CLOSED TO LESS THAN 1/8".
- SEALANTS MAY NOT BE UTILIZED IN FOOD AND SPLASH CONTACT SURFACES, TO FILL OPEN SPACES OR VOIDS WHICH RESULT DUE TO IMPROPER DESIGN OR FABRICATION.
- ANY OPENING IN EXCESS OF 1/8" SHALL BE CONSIDERED EXCESSIVE AND MUST BE CLOSED USING PROPER FIELD JOINTS.
- ALL ANNULAR OPENINGS IN CONSTRUCTION WILL BE SEALED TO WITHIN 1/32".

**CABINET NOTES:**

- VERIFY ALL CABINET CONFIGURATIONS WITH OWNER.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO OWNER FOR REVIEW.
- REVIEW WITH CONTRACTOR AND OWNER PRIOR TO INSTALLATION.
- UPPER AND BASE CABINET SURROUND, DOORS AND DRAWERS FINISH TO BE AS MANUFACTURED BY FORMICA, MOUSE O/3/4" MDF WITH 4" WIRE POLE HANDLE OR APPROVED EQUAL BY OWNER.
- SOLID-SURFACE COUNTERTOP TO BE MANUFACTURED BY CORIAN, ROSEMARY, OR APPROVED EQUAL BY OWNER.

**KEY NOTES**

1	PAINTED TYPE 'X' GYPSUM BOARD PER FINISH SCHEDULE.
2	PAINTED 'MR' GYPSUM BOARD PER FINISH SCHEDULE.
3	4'-0" HT. PREFINISHED WALL PANELS (FRP) O/ 'MR' GYPSUM BOARD PER FINISH SCHEDULE.
4	4" RUBBER COVED WALL BASE PER FINISH SCHEDULE.
5	TOILET PARTITION BY HADRIAN, SOLID PLASTIC, FLOOR MOUNTED, GRAY, OR APPROVED EQUAL BY OWNER.
6	SHOWER TILES BY BEDROSANS, 6"x6" MATTE CERAMIC TILE, ICE WHITE, OR APPROVED EQUAL BY OWNER.
7	1 1/2" X 36" LONG GRAB BAR.
8	1 1/2" X 42" LONG GRAB BAR.
9	1 1/2" X 18" LONG VERTICAL GRAB BAR.
10	L-SHAPED GRAB BAR, MOUNT AT 3'-0" ABOVE ABOVE FINISH FLOOR TO TOP OF BAR.
11	SINK PER PLUMB. DWGS.
12	ACCESSIBLE WATER CLOSET PER PLUMB. DWGS.
13	URINAL PER PLUMB. DWGS.
14	MOP SINK PER PLUMB. DWGS.
15	WATER HEATER PER PLUMB. DWGS.
16	SHOWER HEAD PER PLUMB. DWGS.
17	HAND SHOWER W/ 59" LONG HOSE PER ANSI 608.5 & 309.4.
18	REFRIGERATOR BY OWNER.
19	SURFACE MOUNTED PAPER TOWEL DISPENSER, MOUNT AT 3'-4" ABOVE FINISH FLOOR TO TOP OF DISPENSER OPENING.
20	SURFACE MOUNTED TOILET TISSUE DISPENSER, MOUNT AT 24" TO CENTER OF UNIT ABOVE FINISH FLOOR AND 7" - 9" FROM FRONT OF WATER CLOSET TO THE CENTERLINE OF THE UNIT.
21	SURFACE MOUNTED TOILET SEAT COVER DISPENSER, MOUNT AT 15'-48" ABOVE FINISH FLOOR TO THE BOTTOM OF DISPENSER OPENING.
22	SURFACE MOUNTED SOAP DISPENSER.
23	SHOWER ROD AND CURTAIN BY INPRO OR APPROVED EQUAL BY OWNER.
24	L-SHAPED SHAPED SEAT PER ANSI 610.3.2.
25	BENCH BY OWNER.
26	WRAP WASTE & WATER LINES WITH "LAV-GUARD" AS MANUFACTURED BY "TRU-BRO" OR APPROVED EQUAL BY OWNER.
27	TRASH CAN PROVIDED BY OWNER.
28	24" X 36" (I.N.O.) MIRROR W/ STAINLESS STEEL CHANNEL FRAME, MOUNT ABOVE LAVATORY WITH BOTTOM OF MIRROR AT 3'-4" ABOVE FINISH FLOOR.
29	VANITY LIGHT FIXTURE PER ELECT. DWGS.
30	CABINETS PER CABINET NOTES.
31	COUNTERTOP PER CABINET NOTES.
32	BACKSPLASH TO BE SOLID SURFACE 4" HT. X 1/2".
33	CORBEL, PLASTIC LAMINATE O/ 3/4" PARTICLE BOARD.
34	4" TOE KICK.
35	LOCKERS BY HALLOWELL, 2-TIER 2 DOOR PREMIUM LOCKER, 18"W X 21"D X 78" H DARK GRAY OR APPROVED EQUAL BY OWNER.
36	CHROME WIRE SHELVING BY SHELVING INC. W/ 5 SHELVES OR APPROVED EQUAL BY OWNER.
37	DOOR PER SCHEDULE.
38	WINDOW PER SCHEDULE.
39	EXISTING WINDOW

SEAL  
**Preliminary**  
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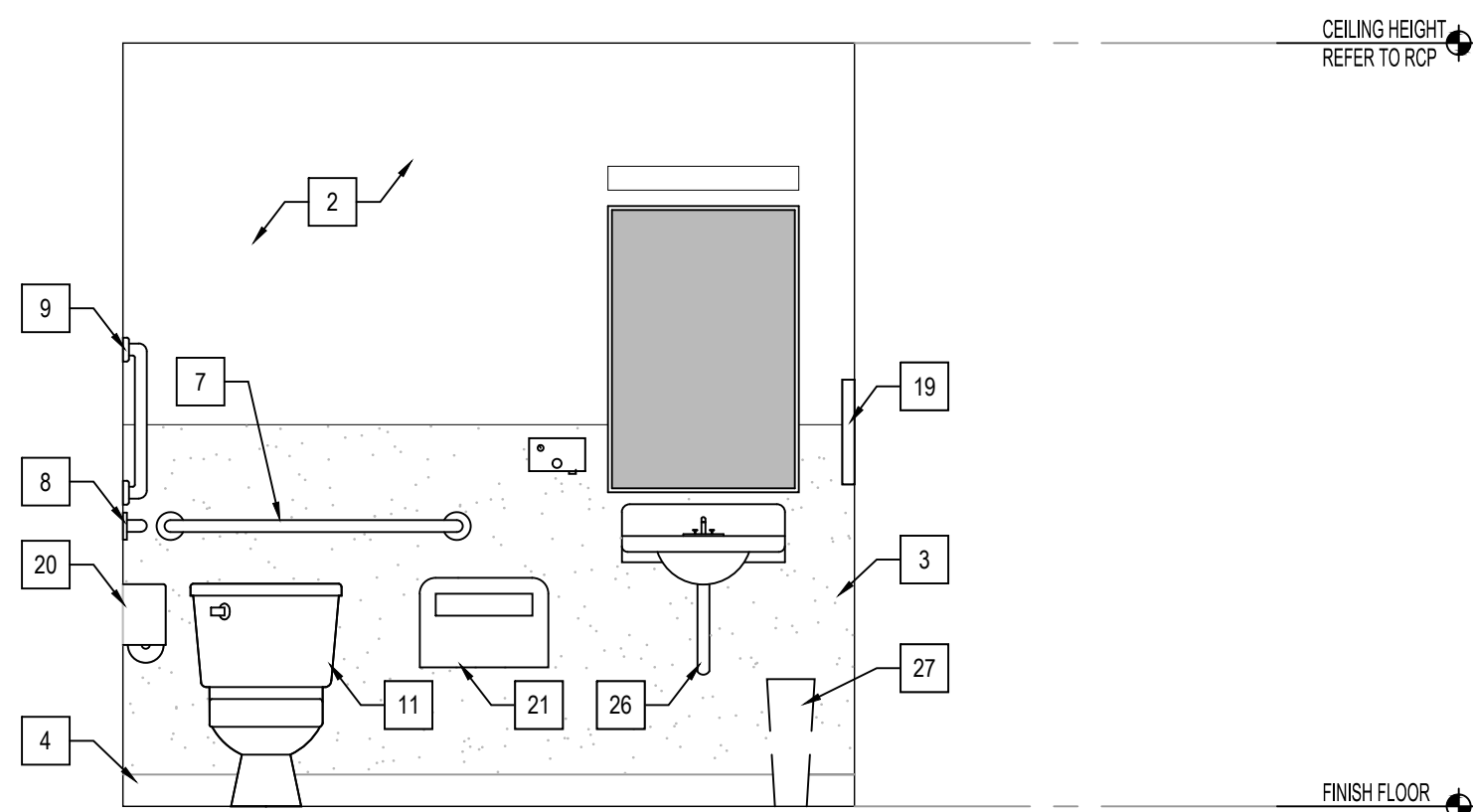
PROJECT NAME:  
**MOHAVE COUNTY SHERIFF'S OFFICE T.I.  
LAKE HAVASU CITY, ARIZONA**  
6634 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD  
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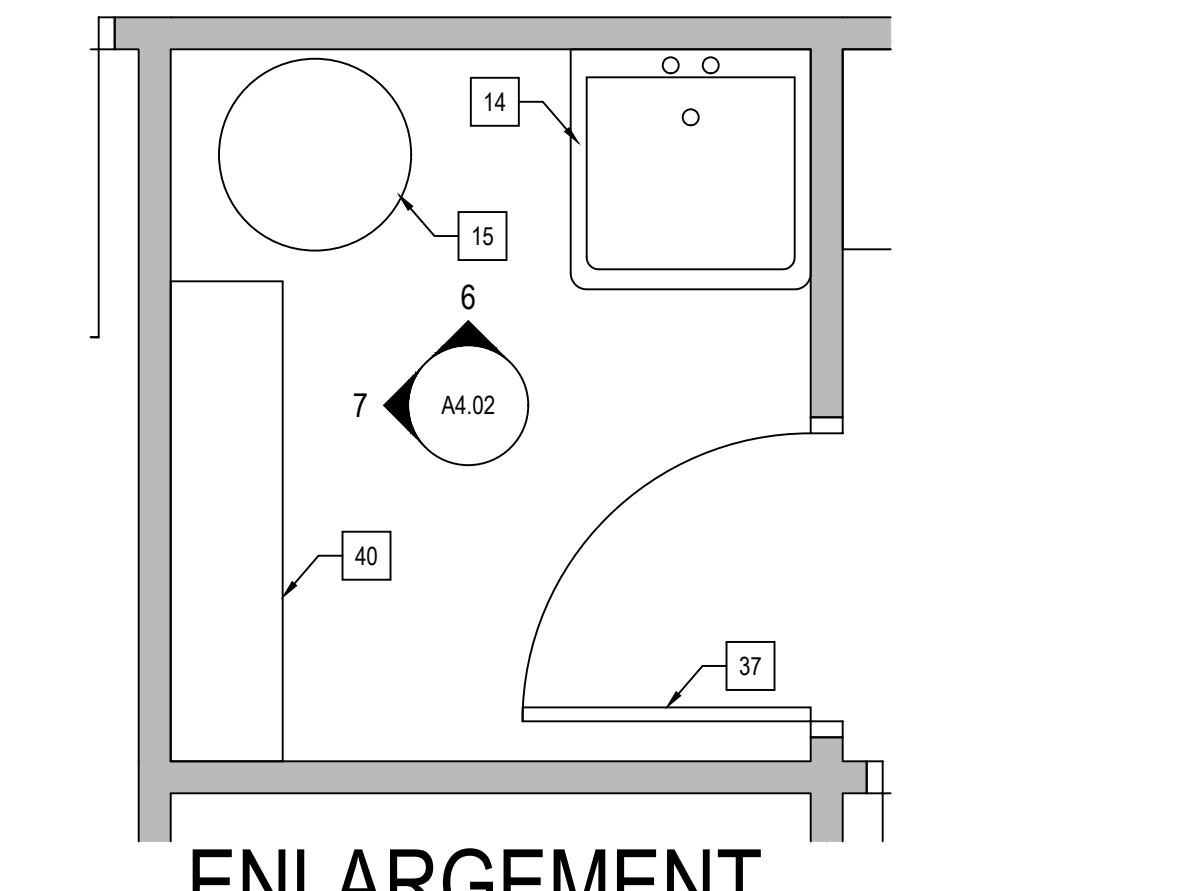
PROJECT NO. 23089  
ISSUED FOR: PERMIT SET  
ISSUED DATE: FEBRUARY 15, 2024  
REVISION ISSUE DATE

SHEET TITLE:  
INTERIOR ELEVATIONS

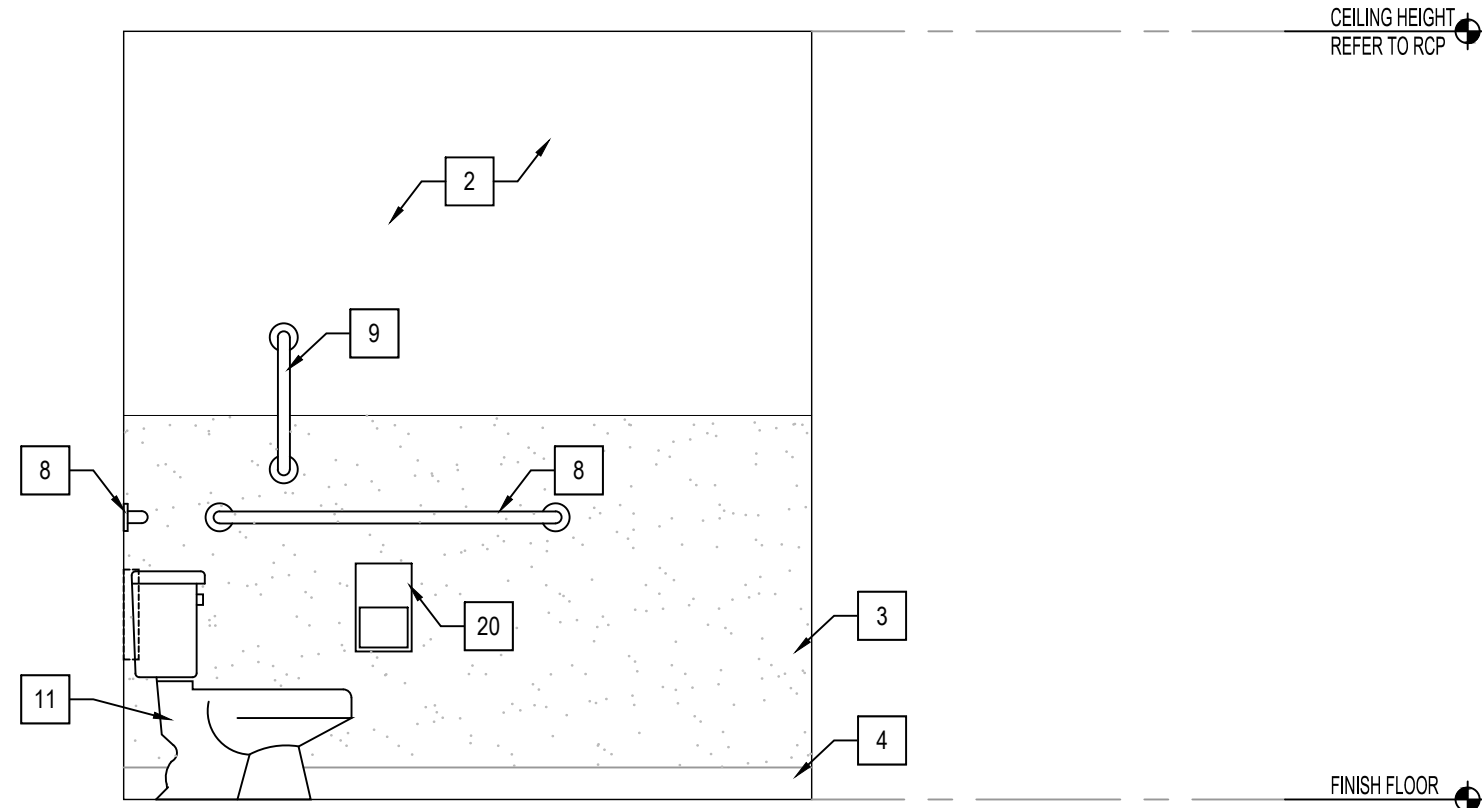
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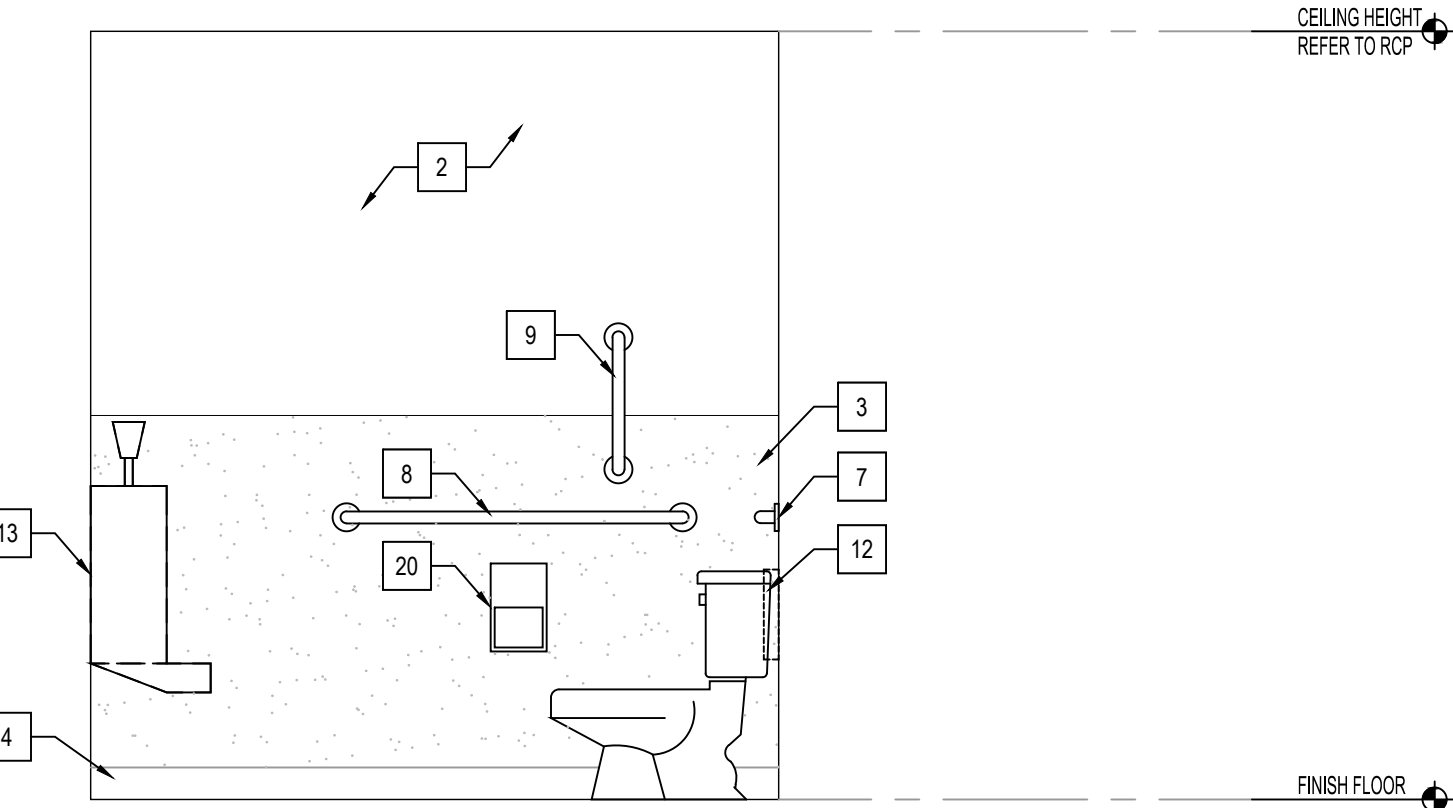
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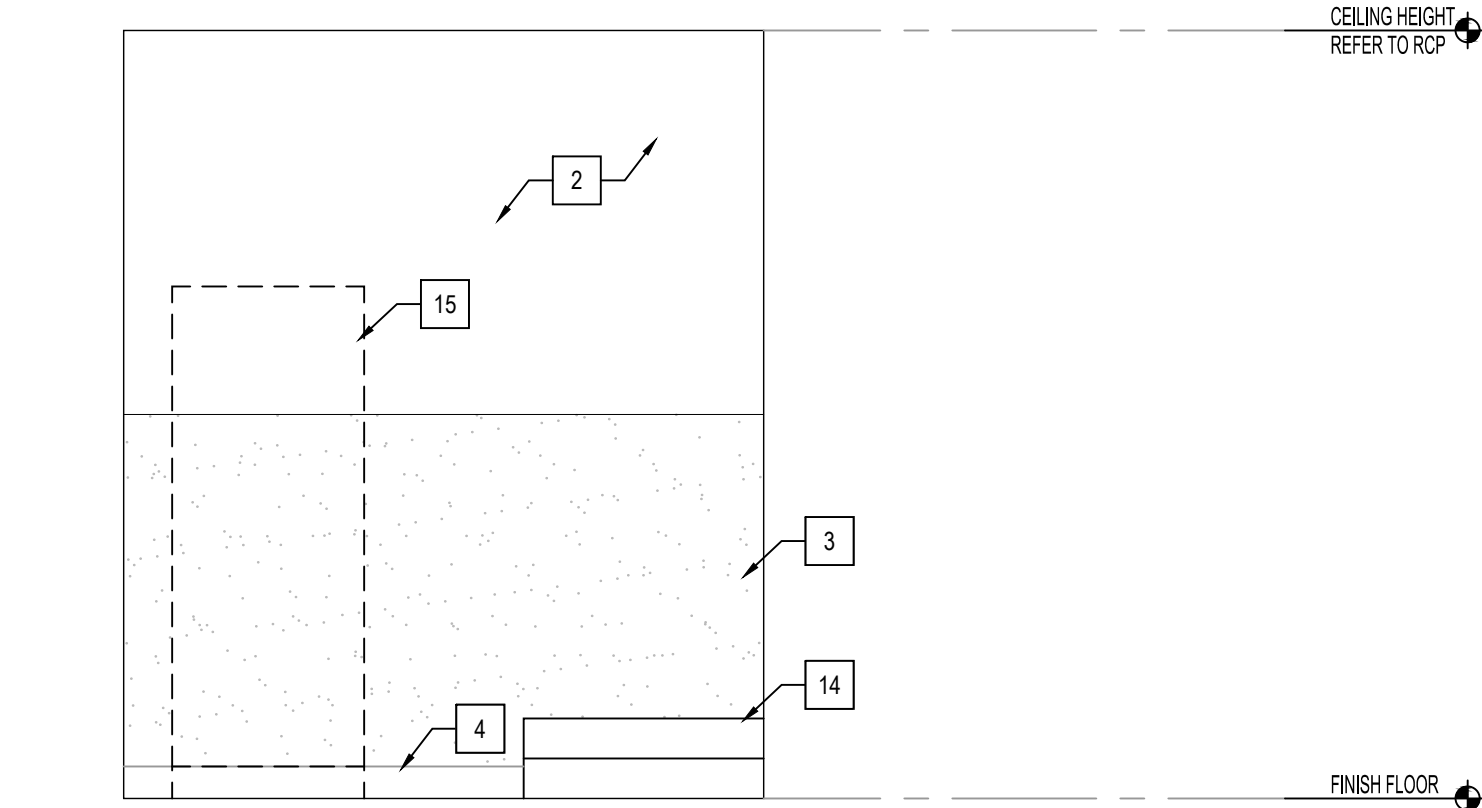
**C ENLARGEMENT JANITOR 140**  
1/2" = 1'-0"



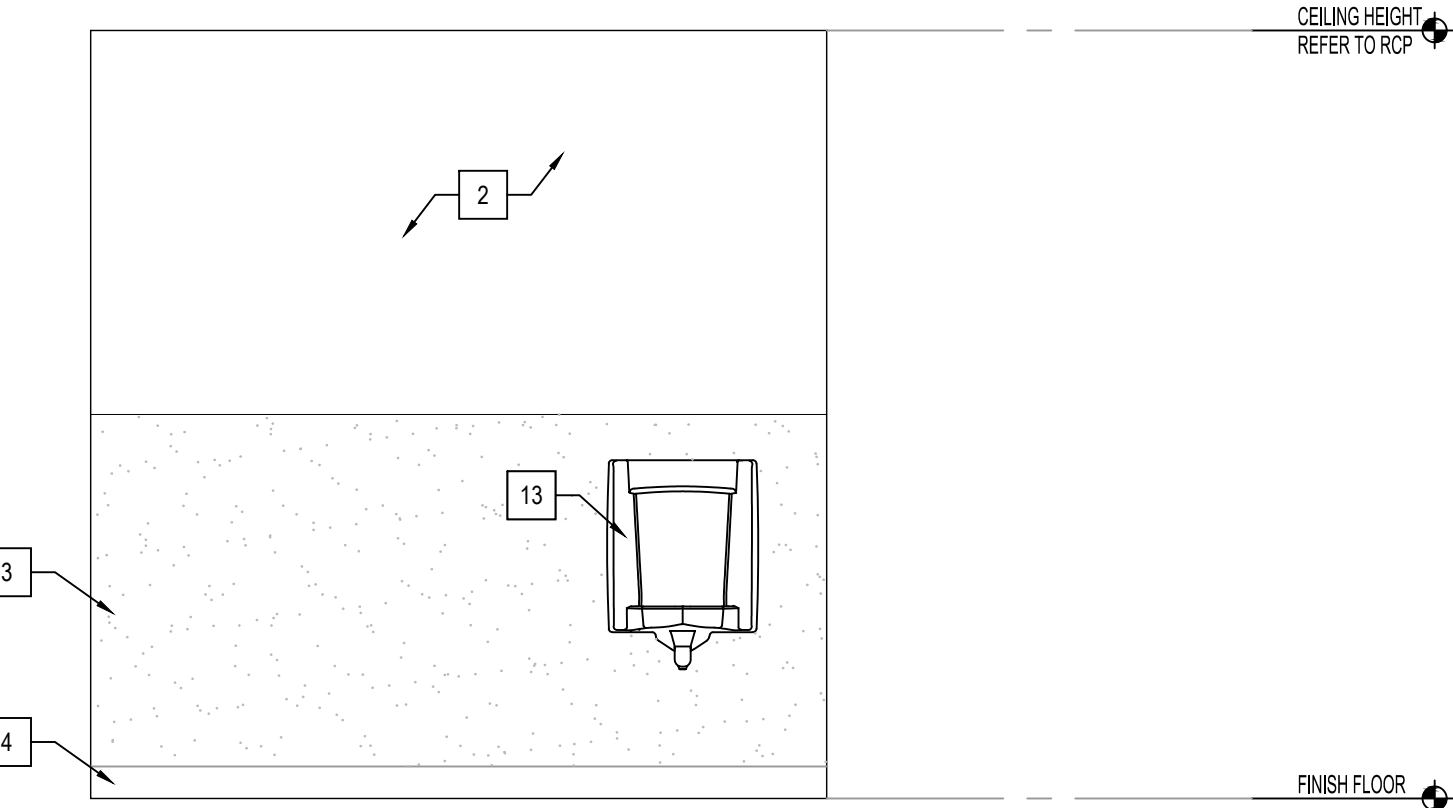
**5 INTERIOR ELEVATION**  
1/2" = 1'-0"



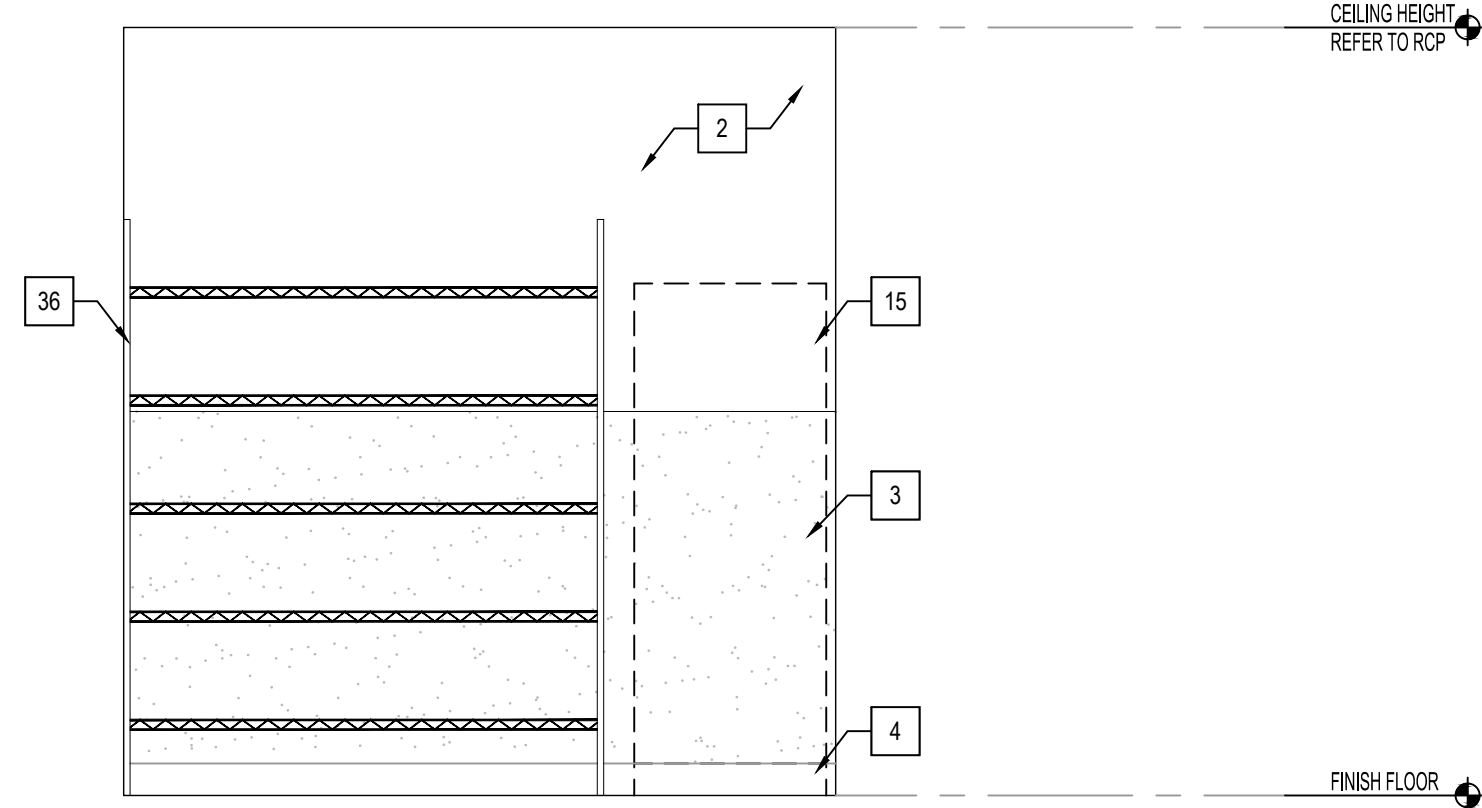
**1 INTERIOR ELEVATION**  
1/2" = 1'-0"



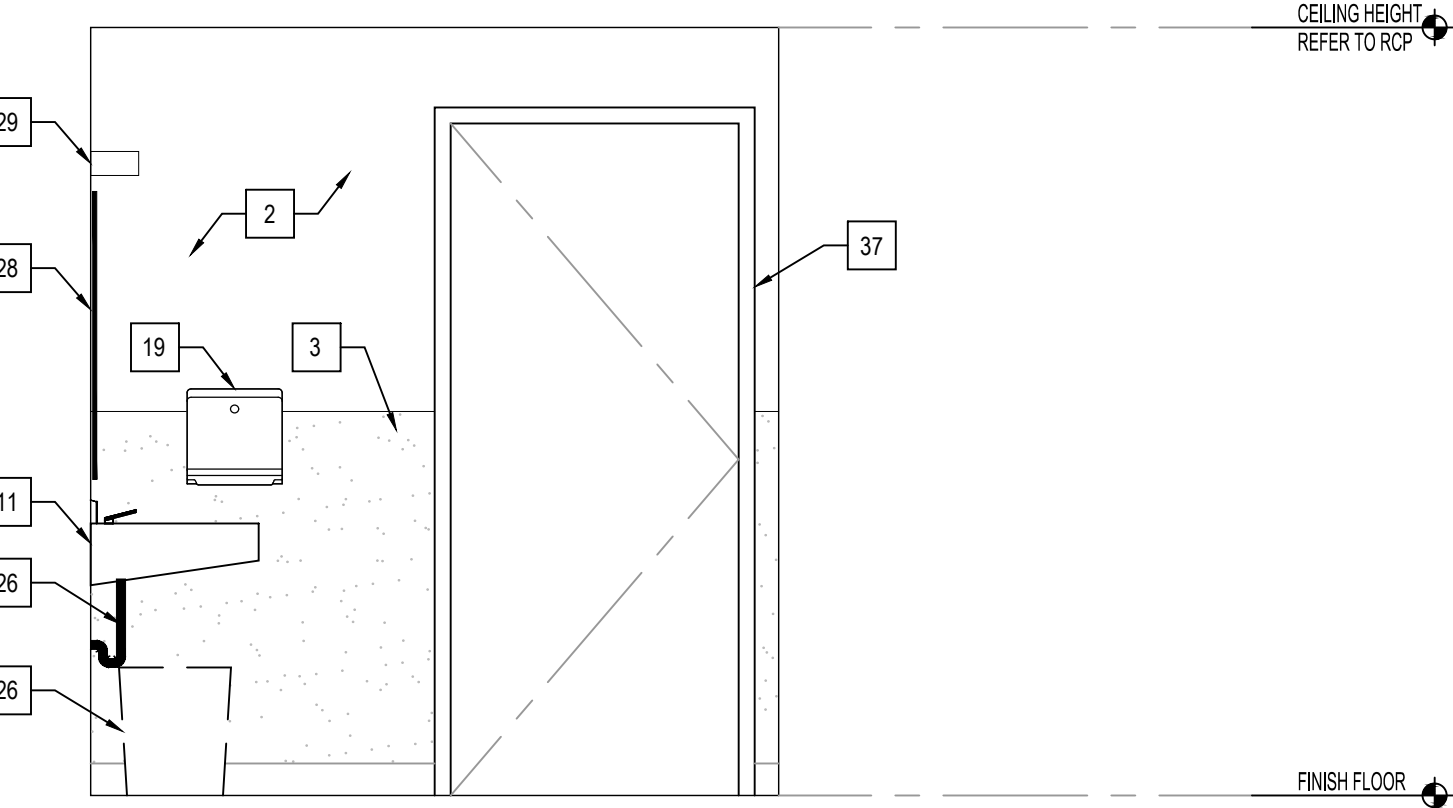
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1/2" = 1'-0"



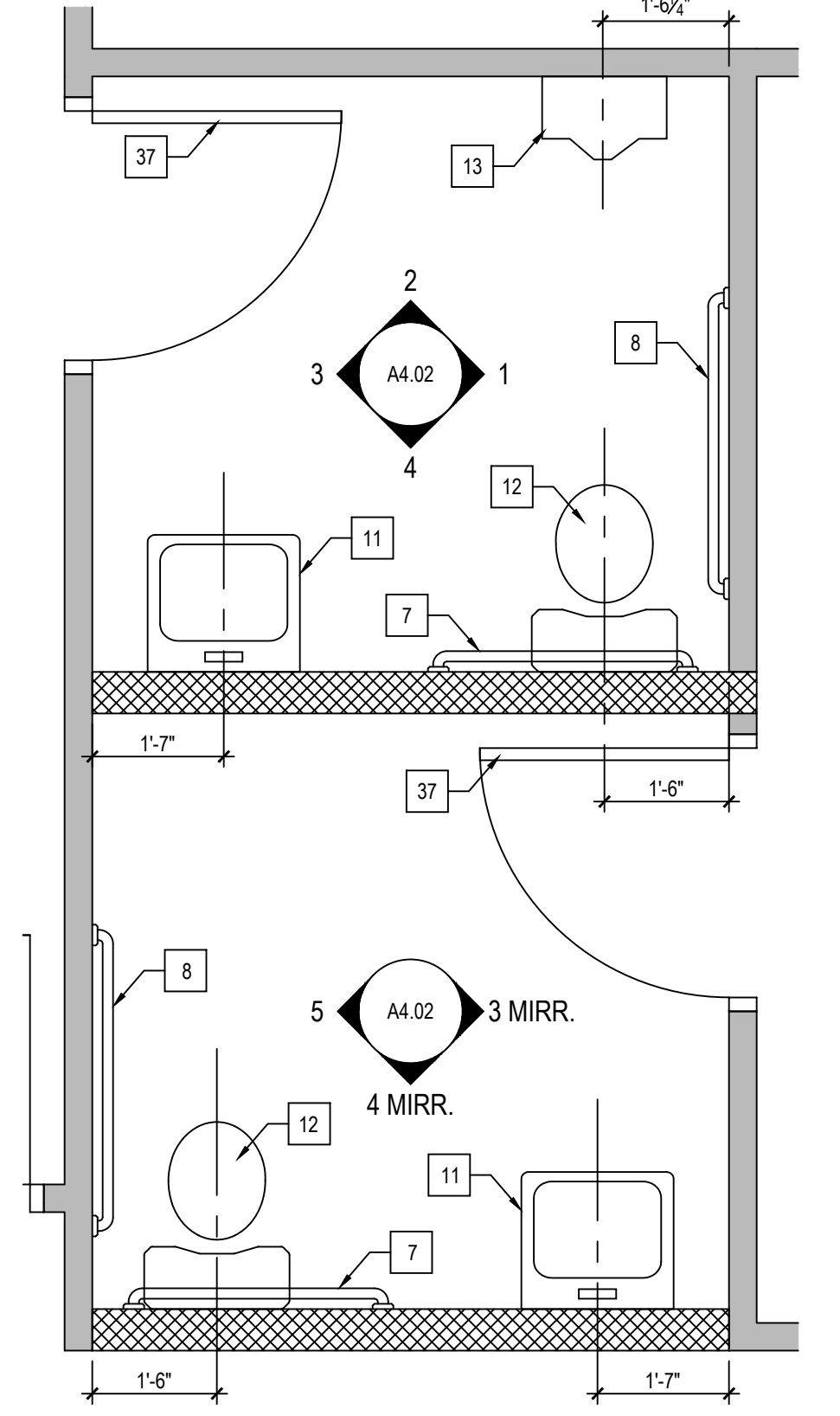
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1/2" = 1'-0"



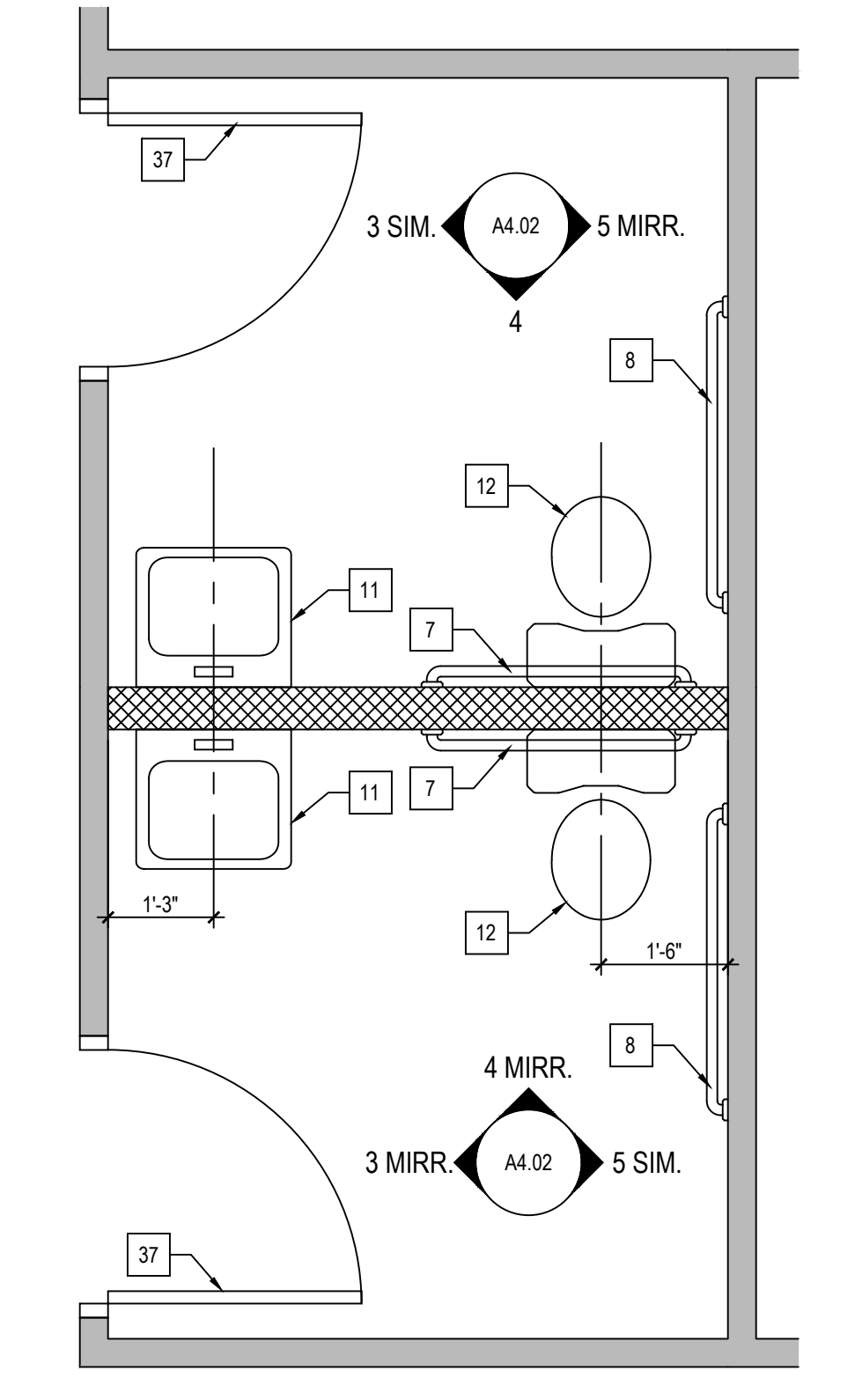
**7 INTERIOR ELEVATION**  
1/2" = 1'-0"



**3 INTERIOR ELEVATION**  
1/2" = 1'-0"



**A ENLARGEMENT RESTROOM 111 AND 115**  
1/2" = 1'-0"



**B ENLARGEMENT RESTROOM 130 AND 131**  
1/2" = 1'-0"

- GENERAL NOTES:**
- RESTROOM NOTES:**
- SEE SHEET A0.03 & A0.04 FOR ACCESSIBILITY DETAILS AND MOUNTING HEIGHTS.
  - WATER CLOSET CONTROLS, THE FAUCET CONTROLS FOR LAVS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST & HAVE AN OPERATING FORCE NOT GREATER THAN 5 LBS.
  - THE CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AT NO MORE THAN 44" A.F.F.
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  - OPENINGS AROUND SERVICE AND UTILITY LINES SHOULD BE CLOSED IN SO FAR AS PRACTICAL BY USING COLLARS OR GROMMETS, OR FLEXIBLE FORM GASKETS.
  - SEALANTS MAY BE USED TO SEAL SERVICE UTILITY LINES TO WALLS OR ADJACENT PIECES OF EQUIPMENT WHERE THE SPACING IS CLOSED TO LESS THAN 1/8".
  - SEALANTS MAY NOT BE UTILIZED IN FOOD AND SPLASH CONTACT SURFACES, TO FILL OPEN SPACES OR VOIDS WHICH RESULT DUE TO IMPROPER DESIGN OR FABRICATION.
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  - UPPER AND BASE CABINET SURROUND, DOORS AND DRAWERS FINISH TO BE AS MANUFACTURED BY FORMICA, MOUSE O/3/4" MDF WITH 4" WIRE POLE HANDLE OR APPROVED EQUAL BY OWNER.
  - SOLID-SURFACE COUNTERTOP TO BE MANUFACTURED BY CORIAN, ROSEMARY, OR APPROVED EQUAL BY OWNER.

- KEY NOTES**
- PAINTED TYPE 'X' GYPSUM BOARD PER FINISH SCHEDULE.
  - PAINTED 'MR' GYPSUM BOARD PER FINISH SCHEDULE.
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  - TOILET PARTITION BY HADRIAN, SOLID PLASTIC, FLOOR MOUNTED, GRAY, OR APPROVED EQUAL BY OWNER.
  - SHOWER TILES BY BEDROSANS, 6"x6" MATTE CERAMIC TILE, ICE WHITE, OR APPROVED EQUAL BY OWNER.
  - 1 1/2" X 36" LONG GRAB BAR.
  - 1 1/2" X 42" LONG GRAB BAR.
  - 1 1/2" X 18" LONG VERTICAL GRAB BAR.
  - L-SHAPED GRAB BAR, MOUNT AT 3'-0" ABOVE ABOVE FINISH FLOOR TO TOP OF BAR.
  - SINK PER PLUMB. DWGS.
  - ACCESSIBLE WATER CLOSET PER PLUMB. DWGS.
  - URINAL PER PLUMB. DWGS.
  - MOP SINK PER PLUMB. DWGS.
  - WATER HEATER PER PLUMB. DWGS.
  - SHOWER HEAD PER PLUMB. DWGS.
  - HAND SHOWER W/ 59" LONG HOSE PER ANSI 608.5 & 309.4.
  - REFRIGERATOR BY OWNER.
  - SURFACE MOUNTED PAPER TOWEL DISPENSER, MOUNT AT 3'-4" ABOVE FINISH FLOOR TO TOP OF DISPENSER OPENING.
  - SURFACE MOUNTED TOILET TISSUE DISPENSER, MOUNT AT 24" TO CENTER OF UNIT ABOVE FINISH FLOOR AND 7" - 9" FROM FRONT OF WATER CLOSET TO THE CENTERLINE OF THE UNIT.
  - SURFACE MOUNTED TOILET SEAT COVER DISPENSER, MOUNT AT 15'-48" ABOVE FINISH FLOOR TO THE BOTTOM OF DISPENSER OPENING.
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  - SHOWER ROD AND CURTAIN BY INPRO OR APPROVED EQUAL BY OWNER.
  - L-SHAPED SHAPED SEAT PER ANSI 610.3.2.
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  - WRAP WASTE & WATER LINES WITH "LAV-GUARD" AS MANUFACTURED BY "TRU-BRO" OR APPROVED EQUAL BY OWNER.
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  - VANITY LIGHT FIXTURE PER ELECT. DWGS.
  - CABINETS PER CABINET NOTES.
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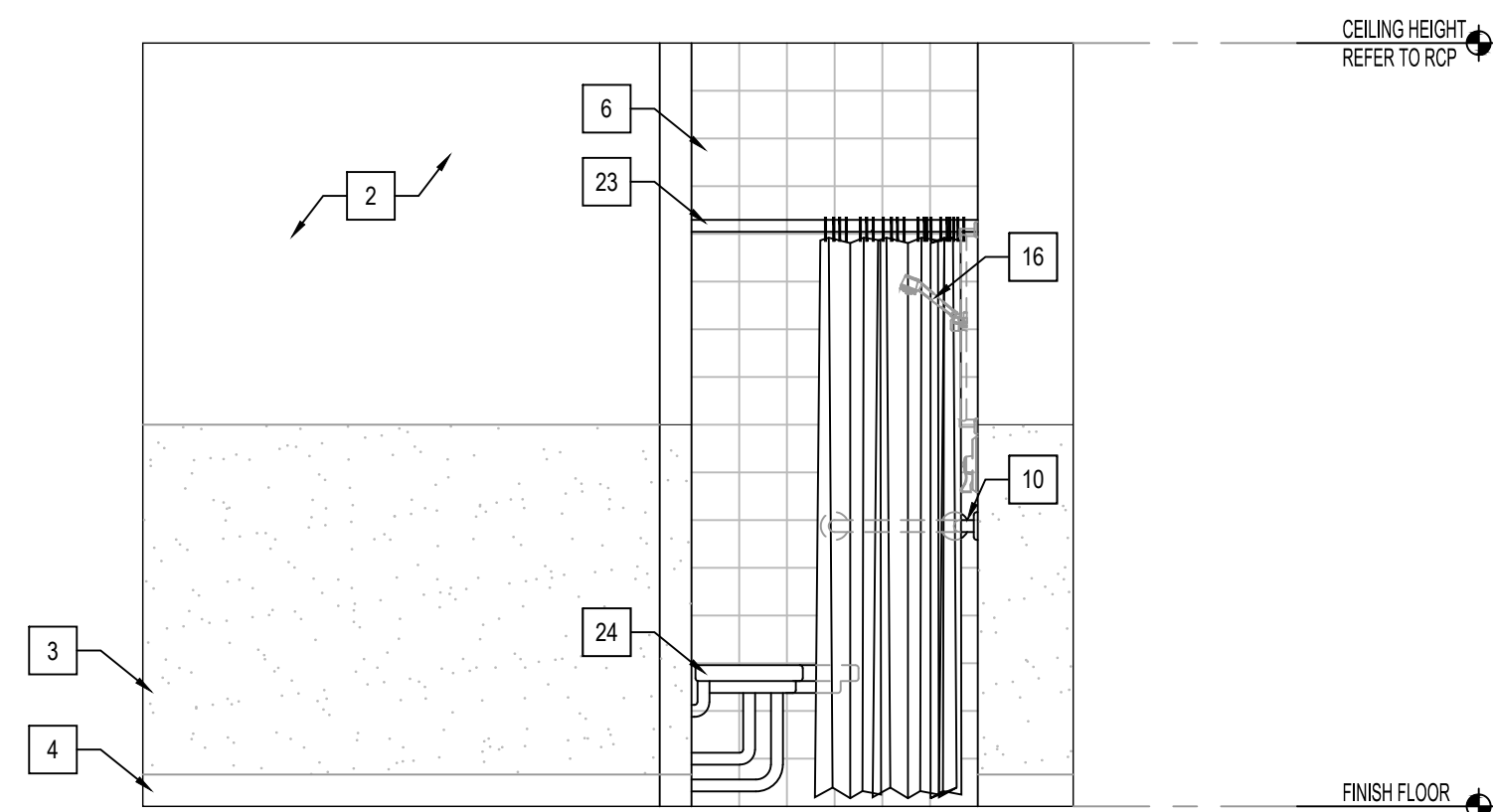
PROJECT NAME:  
**MOHAVE COUNTY SHERIFF'S OFFICE T.I.  
LAKE HAVASU CITY, ARIZONA**  
6634 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD  
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LAKE HAVASU CITY | ARIZONA | 86403  
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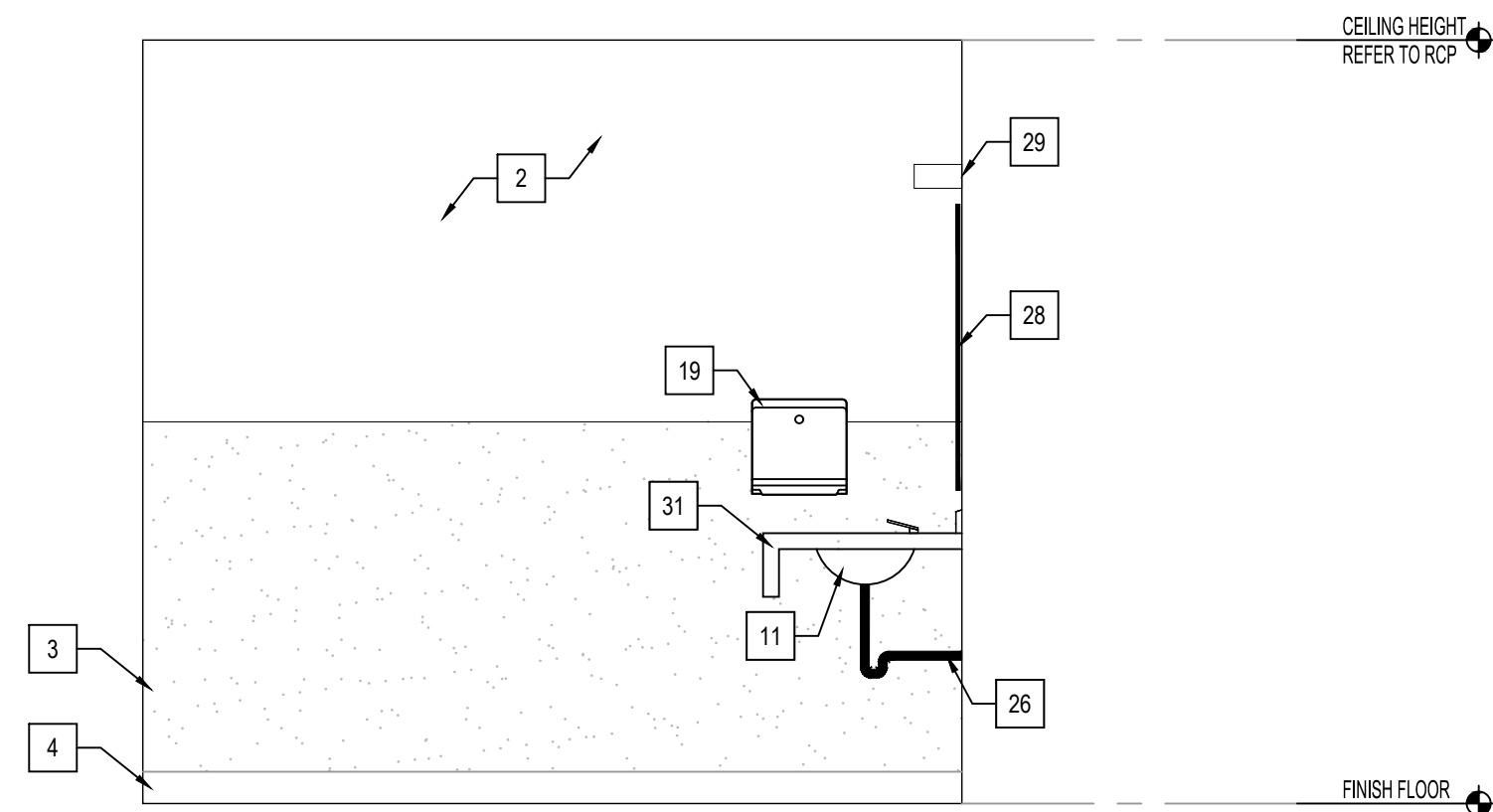
PROJECT NO. 23089  
ISSUED FOR: PERMIT SET  
ISSUED DATE: FEBRUARY 15, 2024  
REVISION ISSUE DATE

SHEET TITLE:  
INTERIOR ELEVATIONS

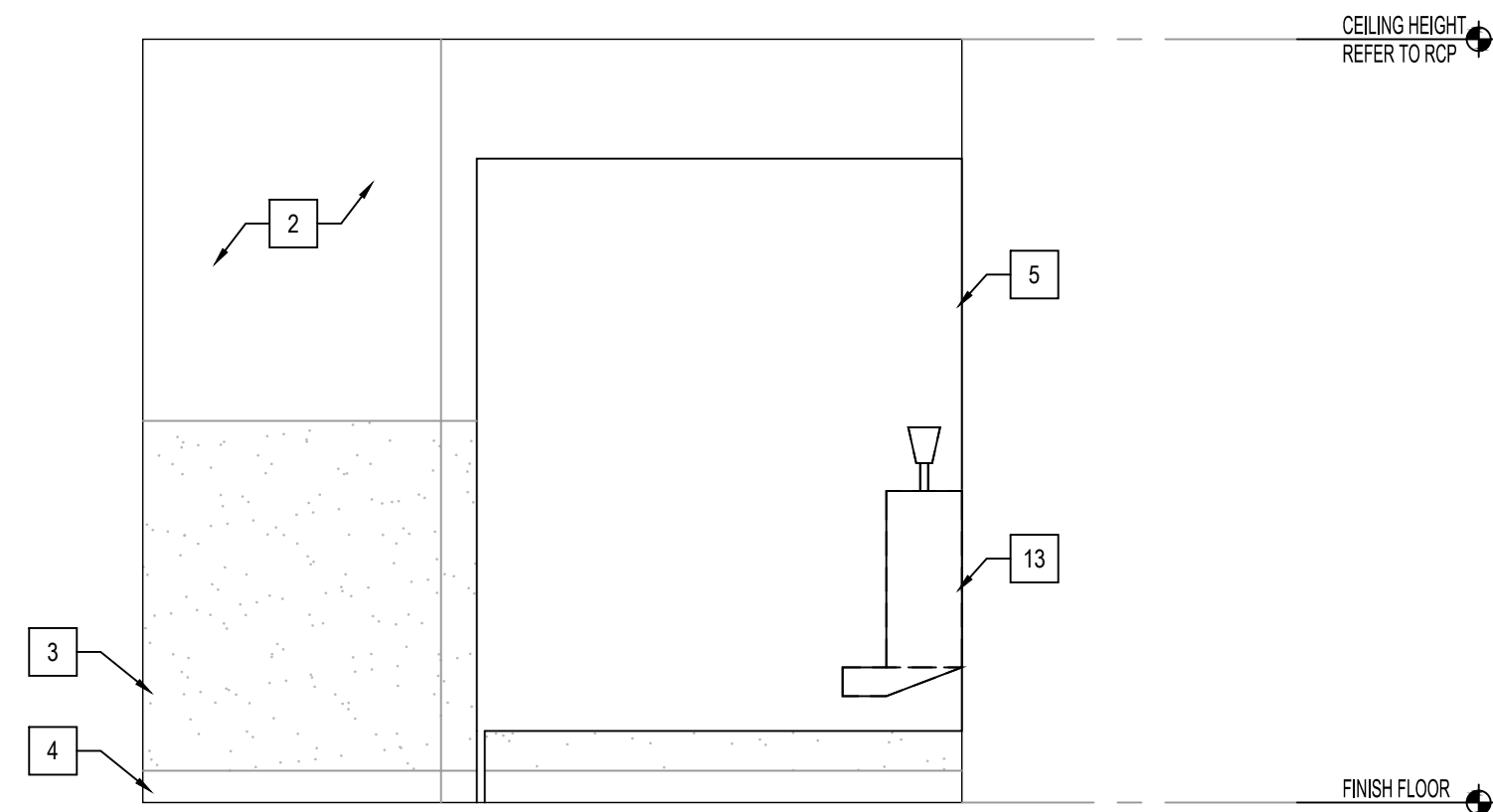
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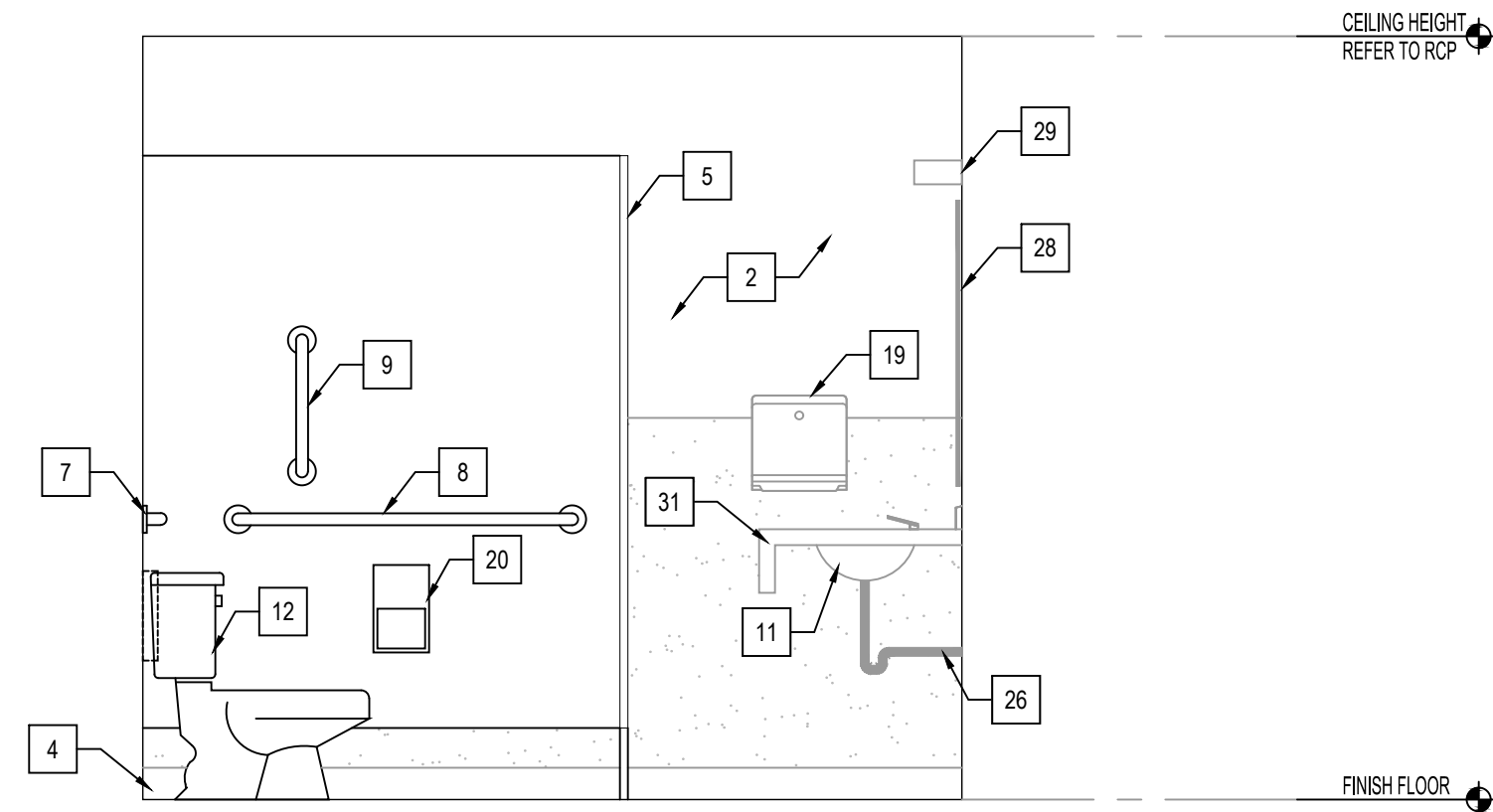
**3 INTERIOR ELEVATION**  
1/2" = 1'-0"



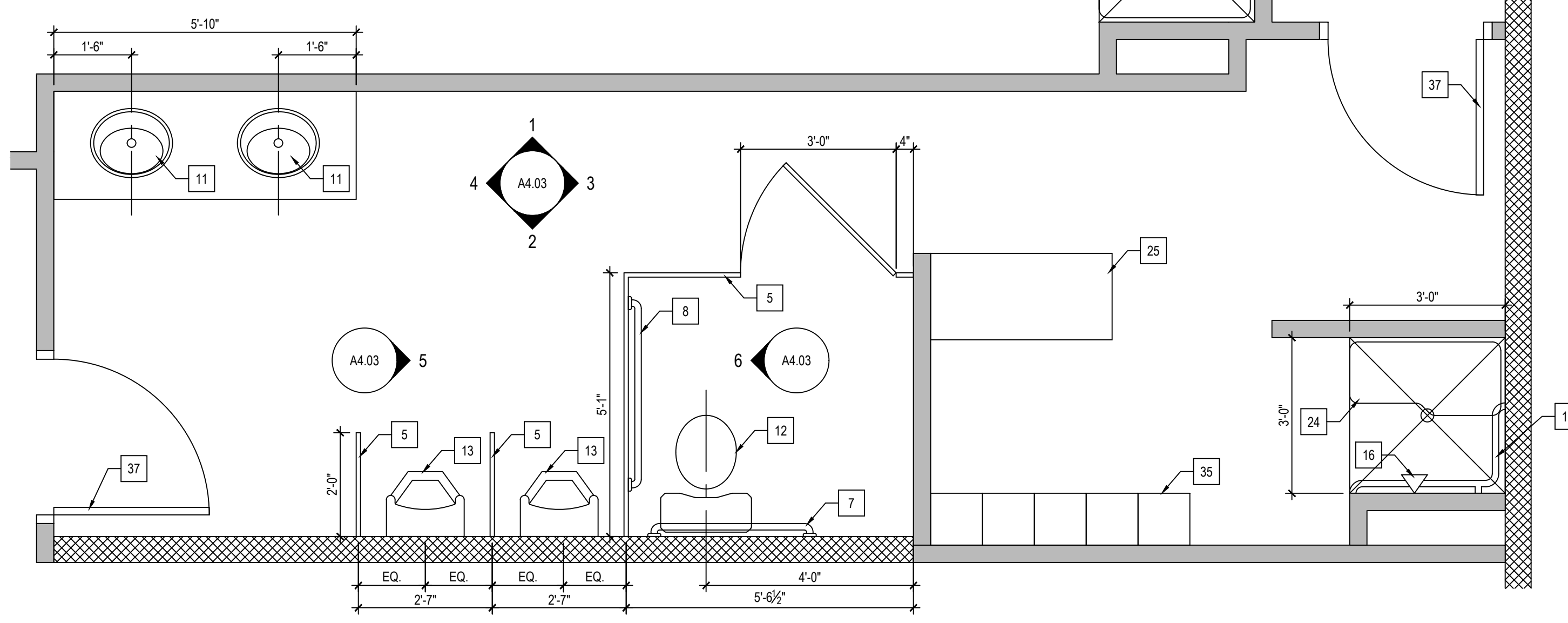
**4 INTERIOR ELEVATION**  
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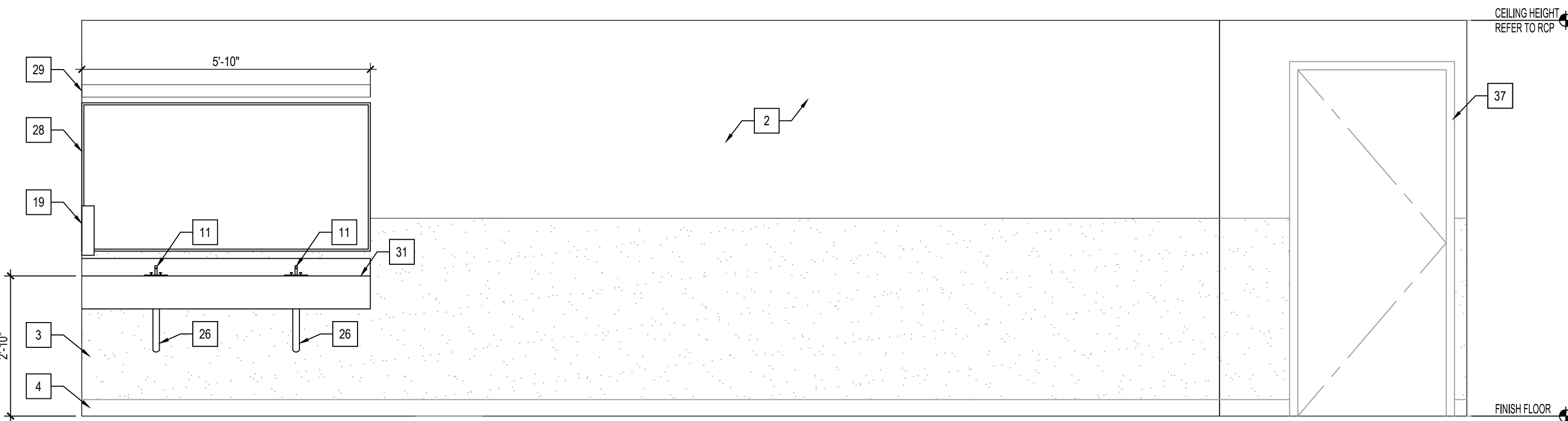
**5 INTERIOR ELEVATION**  
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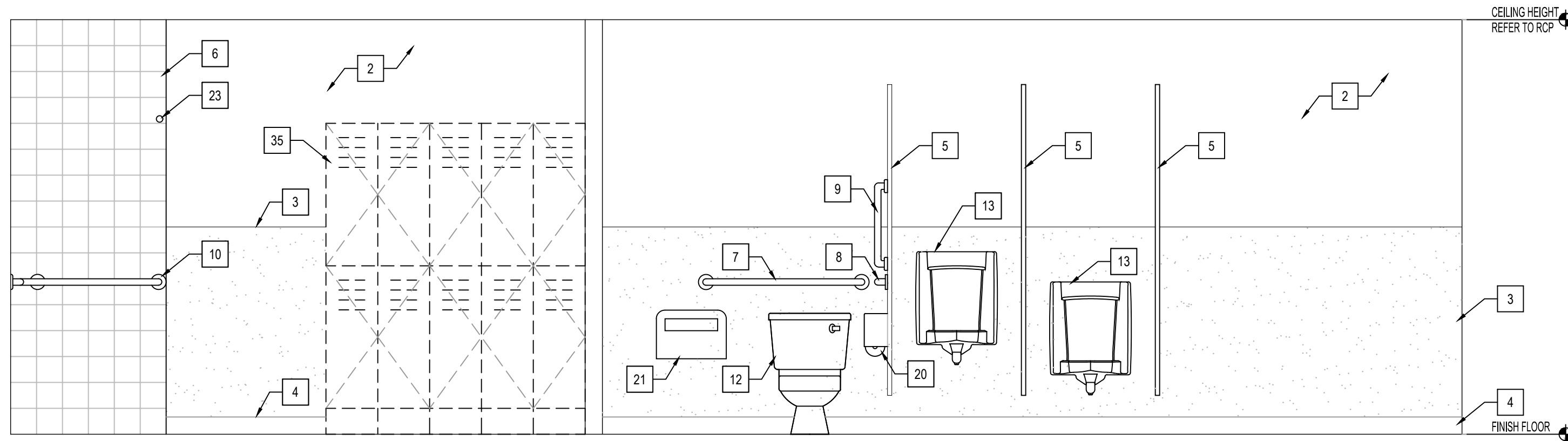
**6 INTERIOR ELEVATION**  
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**A ENLARGEMENT RESTROOM 138**  
1/2" = 1'-0"



**1 INTERIOR ELEVATION**  
1/2" = 1'-0"



**2 INTERIOR ELEVATION**  
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**KEY NOTES**

- |    |  |
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| 3  | 4'-0" HT. PREFINISHED WALL PANELS (FRP) O/ 'MR' GYPSUM BOARD PER FINISH SCHEDULE.  |
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| 17 | HAND SHOWER W/ 59" LONG HOSE PER ANSI 608.5 & 309.4.   |
| 18 | REFRIGERATOR BY OWNER.   |
| 19 | SURFACE MOUNTED PAPER TOWEL DISPENSER, MOUNT AT 3'-4" ABOVE FINISH FLOOR TO TOP OF DISPENSER OPENING.  |
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| 38 | WINDOW PER SCHEDULE.   |
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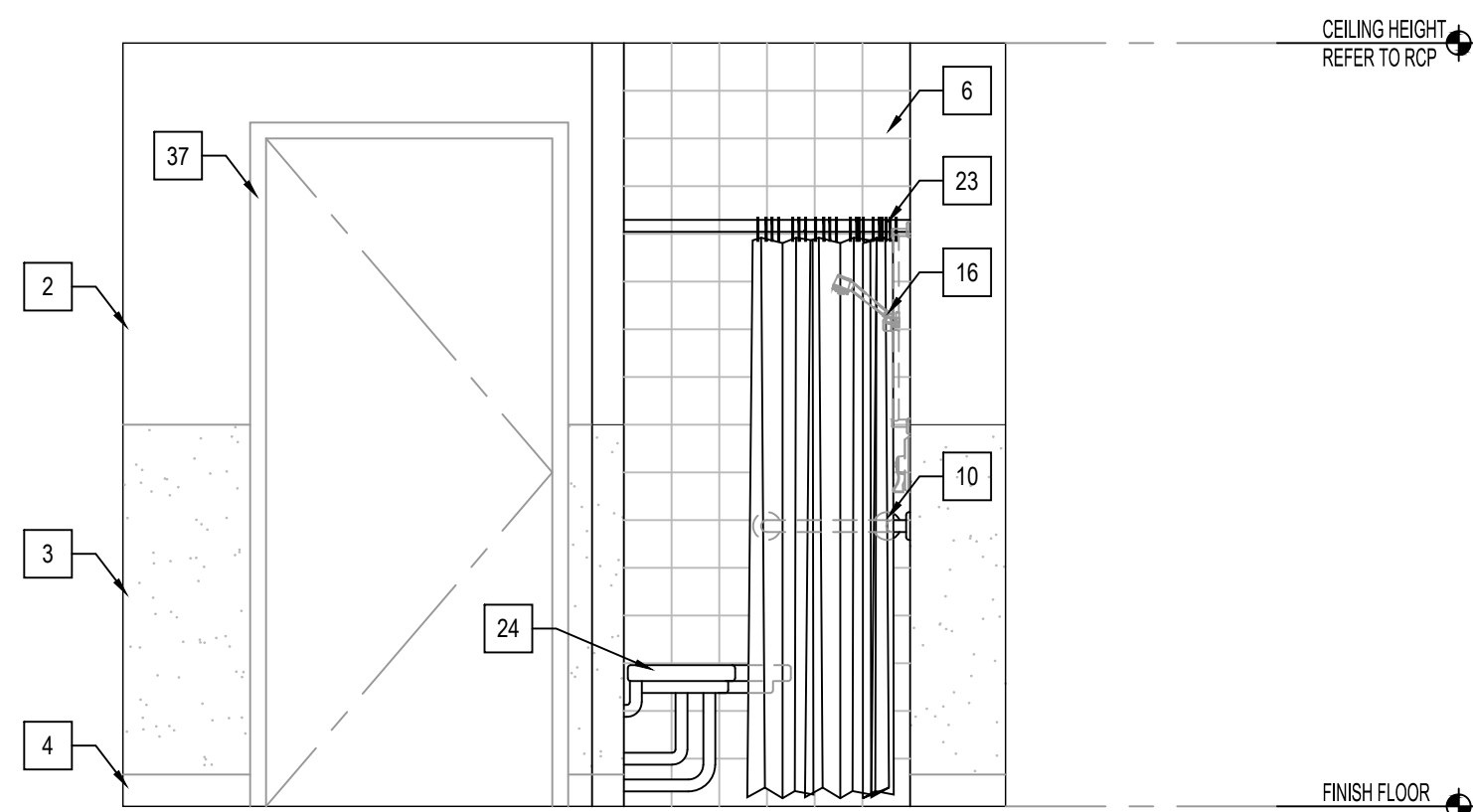
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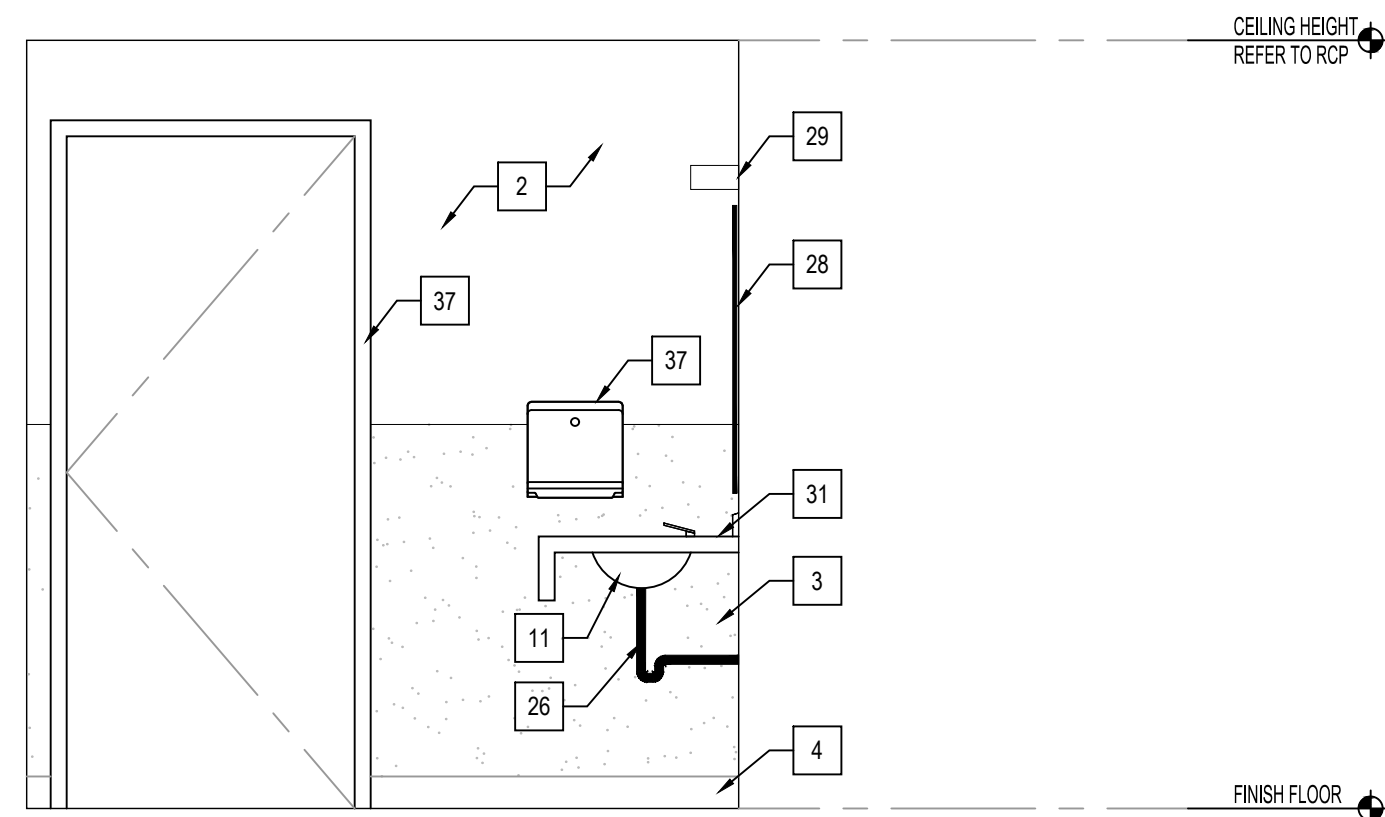
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SHEET TITLE:  
INTERIOR ELEVATIONS

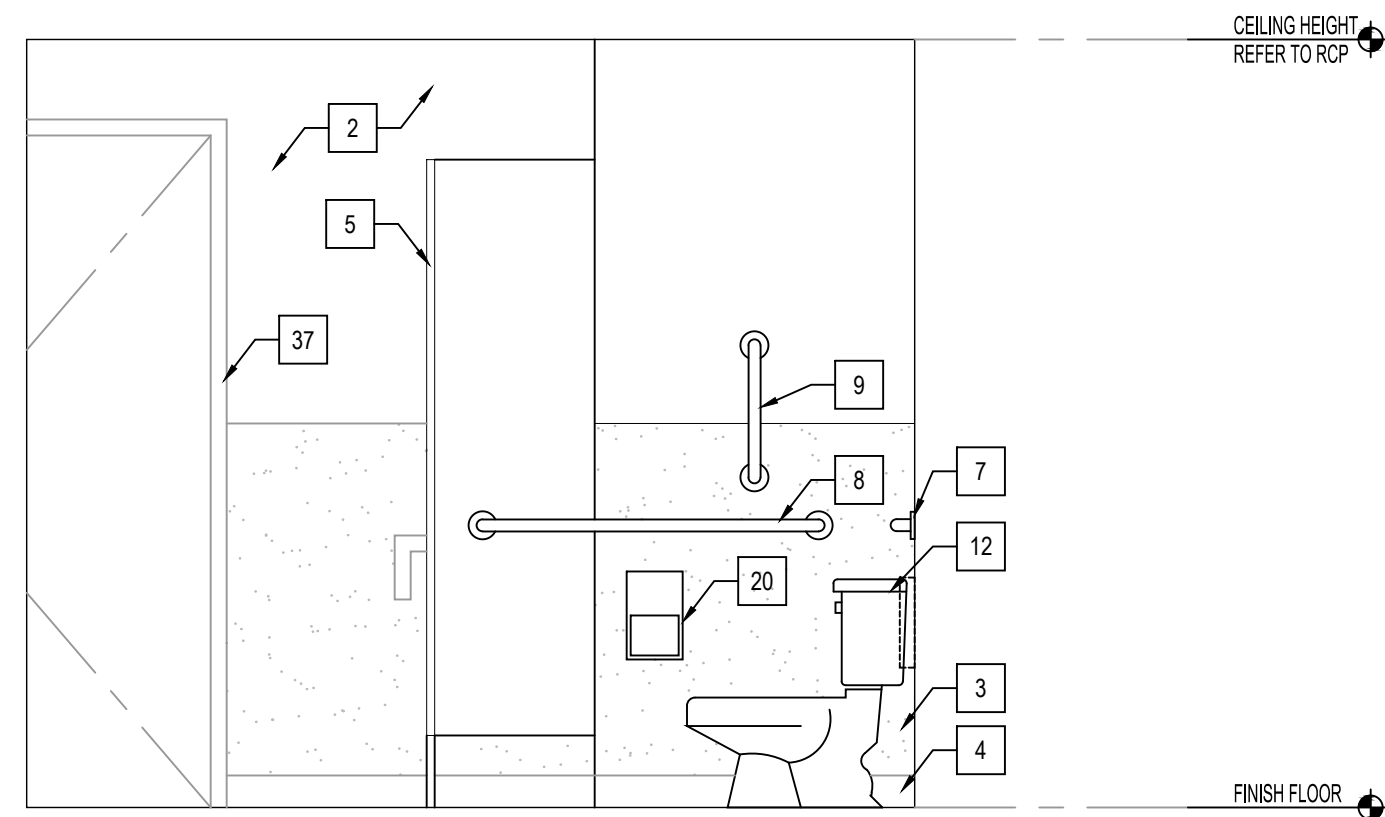
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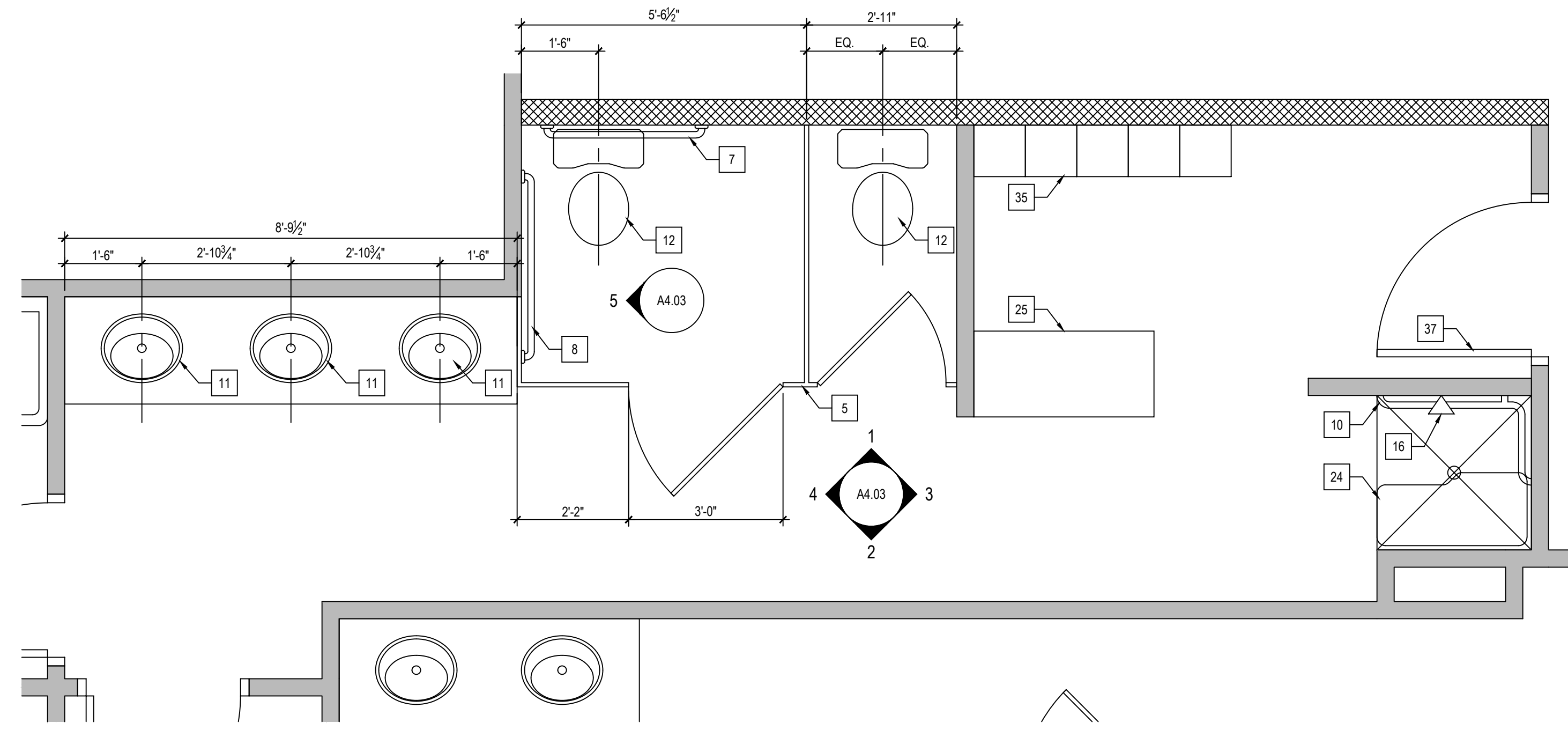
**3 INTERIOR ELEVATION**  
1/2" = 1'-0"



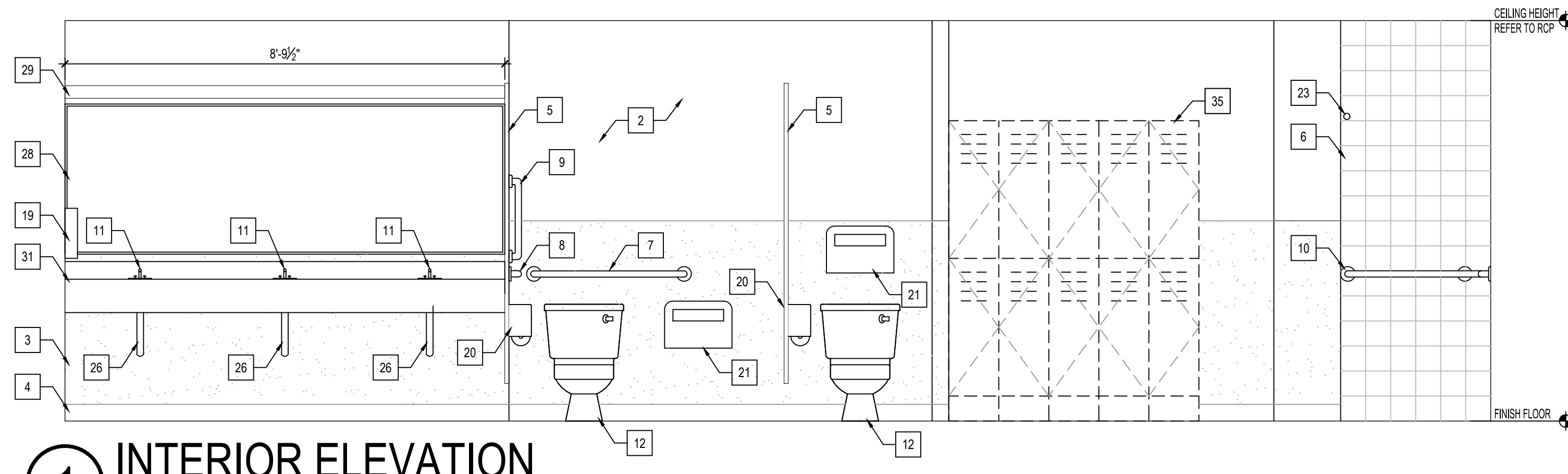
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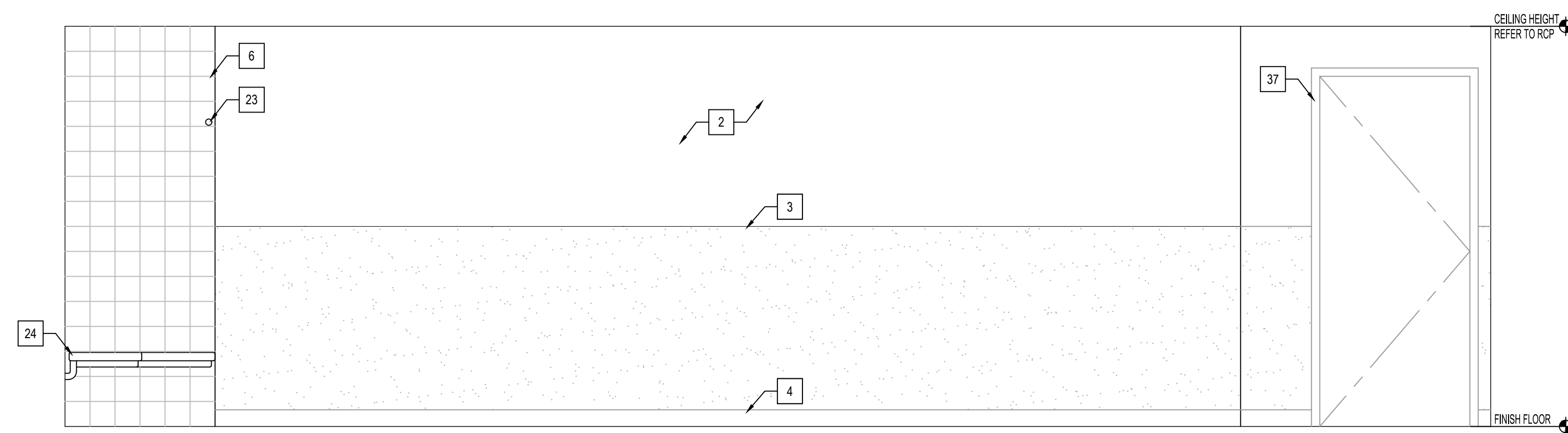
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SEAL  
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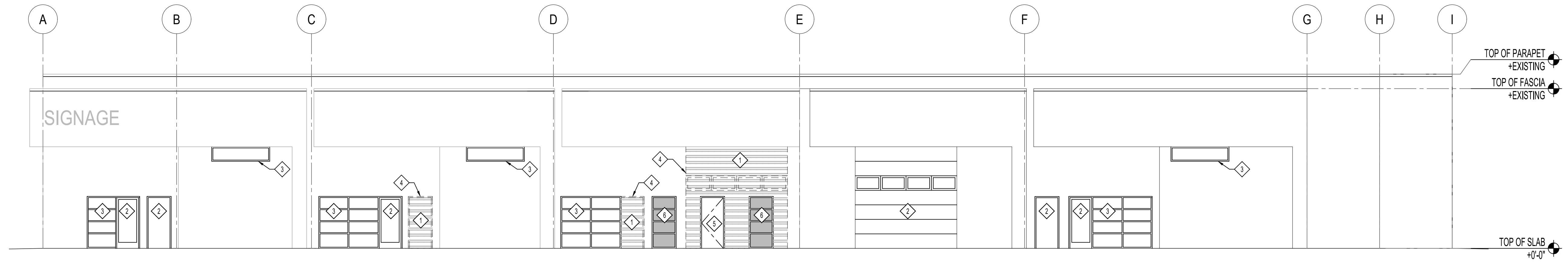
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SHEET NO. **A4.04**

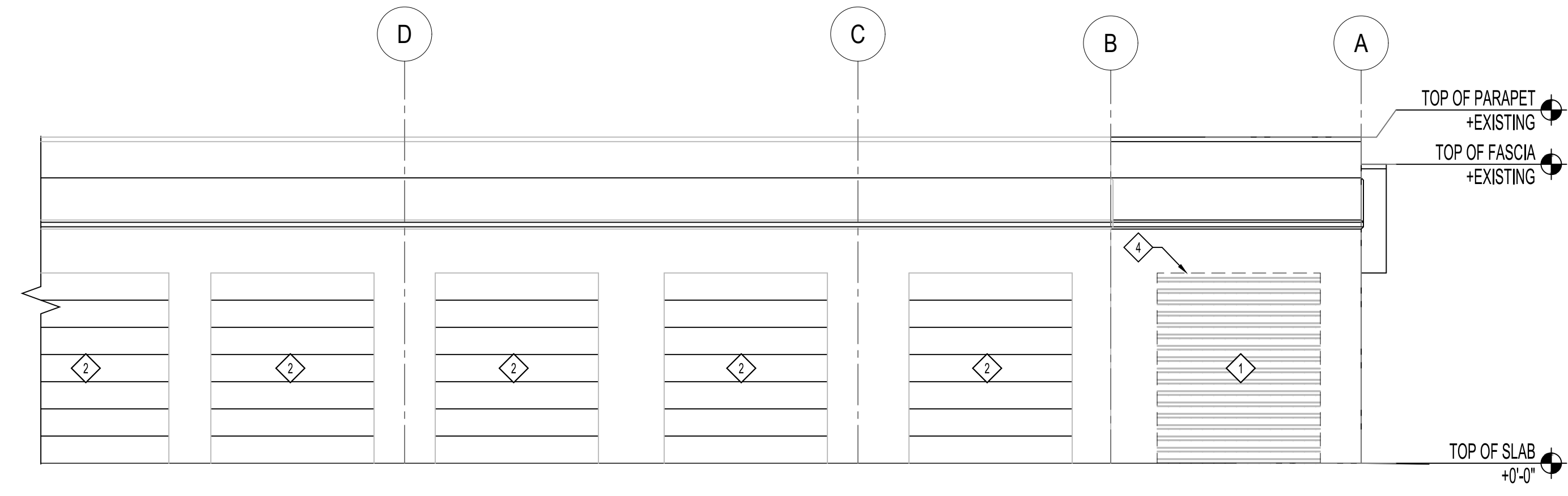
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**1 EAST ELEVATION**  
 1/8"=1'-0"


KEYNOTES			
SYMBOL	DESCRIPTION	MANUFACTURER	COLOR
1	METAL WALL PANEL	TO MATCH EXISTING	TO MATCH EXISTING
2	EXISTING DOOR	EXISTING	PAINT TO MATCH EXISTING
3	EXISTING WINDOW	EXISTING	PAINT TO MATCH EXISTING
4	DOOR TO BE REMOVED	TO BE REMOVED	TO BE REMOVED
5	DOOR PER SCHEDULE	PER SCHEDULE	PAINTED TO MATCH EXISTING DOORS
6	WINDOW PER SCHEDULE	PER SCHEDULE	PAINTED TO MATCH EXISTING WINDOWS

NOTES:  
 1. VERIFY ALL FINAL COLORS WITH OWNER.  
 2. ALL FLASHING TO BE PAINTED TO MATCH COLOR OF ADJACENT WALL UNLESS OTHERWISE NOTED.



**2 WEST ELEVATION**  
 1/8"=1'-0"

PROJECT NAME:  
**MOHAVE COUNTY SHERIFF'S OFFICE T.I.**  
**LAKE HAVASU CITY, ARIZONA**  
 6534 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD  
  
**SELBERG ASSOCIATES INC.**  
 ARCHITECTURE & PLANNING  
 2130 MESQUITE AVE. | SUITE 204  
 LAKE HAVASU CITY | ARIZONA | 86403  
 (928) 955-8544

PROJECT NO. 23089

ISSUED FOR: PERMIT SET

ISSUED DATE: FEBRUARY 15, 2024

REVISION ISSUE DATE

SHEET TITLE:

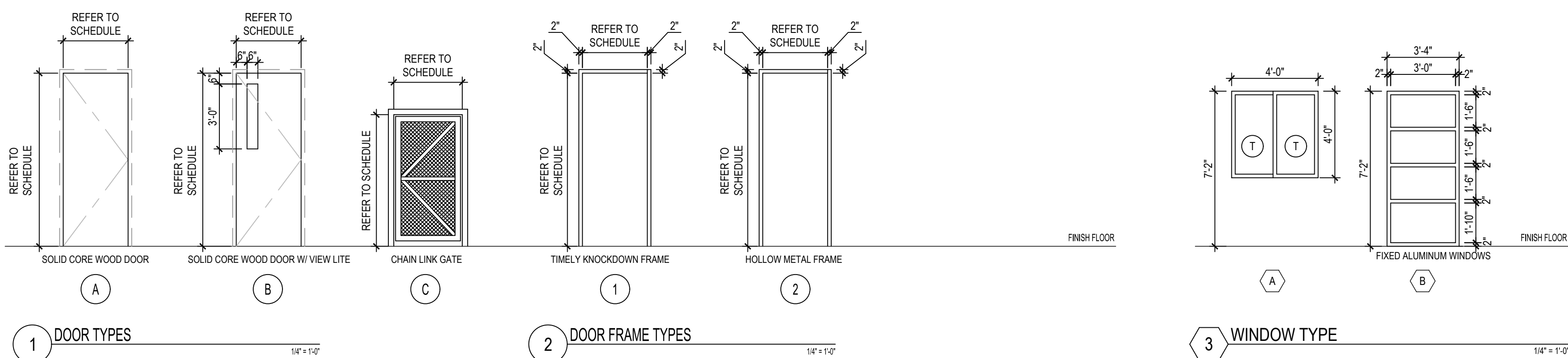
BUILDING ELEVATIONS

SHEET NO.

**A5.01**

**DOOR SCHEDULE**

NO.	TYPE	DOOR					GLASS	FRAME					DOOR & FRAME RATING	HARDWARE	REMARKS		
		WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH		TYPE	THICKNESS	MATERIAL	FINISH	HEAD				JAMB	THRESHOLD
101	B	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	1/4" TEMP	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	DOOR CLOSER TO BE INSTALLED
102	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
103	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	DOOR CLOSER TO BE INSTALLED
104	B	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	1/4" TEMP	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	DOOR CLOSER TO BE INSTALLED
104A	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
105	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
106	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
107	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
108	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
109	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
110	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
110A	A	3'-0"	7'-0"	1-3/4"	HOLLOW METAL	PAINT	-	2	2"	HOLLOW METAL	PAINTED	3/A9.01	4/A9.01	5/A9.01	-	-	TO BE REUSED FROM EXISTING DOOR. DOOR CLOSER TO BE INSTALLED
111	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
112	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
114	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
114A	A	3'-0"	7'-0"	1-3/4"	HOLLOW METAL	PAINT	-	2	2"	HOLLOW METAL	PAINTED	3/A9.01	4/A9.01	5/A9.01	-	-	DOOR CLOSER TO BE INSTALLED
115	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
117	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
117A	A	3'-0"	7'-0"	1-3/4"	HOLLOW METAL	PAINT	-	2	2"	HOLLOW METAL	PAINTED	3/A9.01	4/A9.01	5/A9.01	-	-	DOOR CLOSER TO BE INSTALLED
118	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	DOOR CLOSER TO BE INSTALLED
118A	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	DOOR CLOSER TO BE INSTALLED
119	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
119A	A	3'-0"	7'-0"	1-3/4"	HOLLOW METAL	PAINT	-	2	2"	HOLLOW METAL	PAINTED	3/A9.01	4/A9.01	5/A9.01	-	-	DOOR CLOSER TO BE INSTALLED
121	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
122	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
124	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
125	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
126	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
127	A	3'-0"	7'-0"	1-3/4"	ALUMINUM	EXISTING	-	2	2"	ALUMINUM	TO MATCH EXISTING	6/A9.01	7/A9.01	5/A9.01	-	-	TO BE REUSED FROM EXISTING DOOR. DOOR CLOSER TO BE INSTALLED
128	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
129	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
130	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
131	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
133	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
134	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
135	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	DOOR CLOSER TO BE INSTALLED
136	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	-
138	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	DOOR CLOSER TO BE INSTALLED
139	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	DOOR CLOSER TO BE INSTALLED
140	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	DOOR CLOSER TO BE INSTALLED
141	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	DOOR CLOSER TO BE INSTALLED
142	A	3'-0"	7'-0"	1-3/4"	WOOD	PREFINISHED	-	1	2"	TIMELY KNOCKDOWN	PREFINISHED	1/A9.01	2/A9.01	-	-	-	DOOR CLOSER TO BE INSTALLED
145	A	3'-0"	7'-0"	1-3/4"	HOLLOW METAL	PAINT	-	2	2"	HOLLOW METAL	PAINTED	3/A9.01	4/A9.01	5/A9.01	-	-	TO BE REUSED FROM EXISTING DOOR. DOOR CLOSER TO BE INSTALLED
145A	C	3'-0"	6'-0"	-	CHAINLINK	PREFINISHED	-	3	-	STEEL	PREFINISHED	PER MANUF'R	PER MANUF'R	-	-	-	-



**WINDOW SCHEDULE**

NO.	TYPE	WIDTH	HEIGHT	THK.	MATERIAL	FINISH	MANUF'R	MODEL	GLASS	RATING	GLASS TYPE	REMARKS	HEAD	JAMB	SILL
A	A	4'-0"	4'-0"	-	ALUM.	CLEAR ANODIZED	C.R. LAURENCE	-	1/4" CLEAR		TEMP		8/A9.01	-	9/A9.01
B	B	3'-4"	7'-2"	2"	ALUM.	DARK BRONZE	ARCADIA	AG451	1" CLEAR		TEMP	MATCH EXISTING	10/A9.01	11/A9.01	12/A9.01

**DOOR NOTES**

- ALL DOORS SHALL HAVE LEVER HARDWARE MEETING ADA REQUIREMENTS, U.N.O.
  - ALL DOOR FRAMES TO BE LOCATED 3" MIN. FROM DOOR PANEL TO PERPENDICULAR ADJACENT WALL UNLESS DIMENSIONED OTHERWISE
  - DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE ON THE LOWER 10" OF DOOR
  - ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT
  - MAIN EXIT DOOR TO HAVE A LOCKING DEVICE IS READILY DISTINGUISHABLE AS LOCKED PER I.B.C. 1010.1.9.4 ITEM 2.1.
  - ENTRANCE DOOR HARDWARE SHALL BE SUCH THAT OPENING CAN OCCUR WITHOUT TIGHT GRIPPING, TIGHT PINCHING OR THE TWISTING OF THE WRIST
  - DOOR CLOSERS: IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE DOOR WILL TAKE AT 5 SECONDS TO MOVE TO AN OPEN POSITION OF APPROXIMATELY 12 DEGREES 404.2.8.1 PER 2010 ADA
  - DOOR-OPENING FORCE: THE MAXIMUM FORCE, EXPRESSED IN POUNDS OF FORCE (lb) AND NEWTONS (N), FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:
    - FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWED BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.
    - OTHER DOORS:
      - EXTERIOR HINGED DOORS: 5 lbf (22.2 N)
      - INTERIOR HINGED DOORS: 5 lbf (22.2 N)
      - SLIDING OR FOLDING DOORS: 5 lbf (22.2 N)
- THESE DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION. 404.2.9 PER 2010 ADA
- ALL SURFACE MOUNTED OR EDGE MOUNTED FLUSH BOLTS ARE PROHIBITED 1010.1.9.5
  - DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34" MINIMUM AND 48" MAXIMUM ABOVE FINISH FLOOR PER I.B.C. 1010.1.9.2
  - DOOR HARDWARE INFORMATION TO BE PROVIDED BY OWNER
  - CONTRACTOR TO COORDINATE LOCKING REQUIREMENTS WITH OWNER
  - DOOR SWINGING PER FLOOR PLAN
  - INTERIOR DOORS SHALL BE FLUSH "PREFINISHED" 5 PLY SOLID CORE WOOD DOORS FROM THE AMERICAN SERIES AS MANUFACTURED BY DOORMERICA. www.doormerica.com
  - S-SERIES AS MANUFACTURED BY TIMELY PREFINISHED STEEL DOOR FRAMES OR APPROVED EQUAL BE OWNER, COLOR TO BE BLACK
  - ALL HOLLOW METAL DOORS SHALL BE FLUSH TYPE STEEL CONSTRUCTION WITH HONEYCOMB CORE. DOOR SHALL BE THE "B" SERIES AS MANUFACTURED BY STEELCRAFT
  - STEEL FRAMES SHALL BE ONE PIECE WELDED ASSEMBLY WITH HEADER AND JAMBS SECURELY WELDED. CORNERS SHALL HAVE A NEAT MITER JOINT WELDED AND GROUND SMOOTH PROVIDE 16 GA. SPREADERS. FRAMES SHALL BE 16 GA. STEEL FOR OPENINGS LESS THAN 4 FEET. OPENINGS GREATER THAN 4 FEET SHALL BE 14 GA. STEEL. ALL FRAMES SHALL BE MANUFACTURED BY "STEELCRAFT" TYPE "F" 16 GA.

**ABBREVIATIONS**

☉ = TEMPERED GLASS

**WINDOW NOTES:**

- EXTERIOR ALUMINUM FRAMES SHALL BE SERIES AG451 (CENTER GLAZED) AS MANUFACTURED BY ARCADIA INC. UNLESS OTHERWISE NOTED, REFER TO WINDOW SCHEDULE
- PER I.B.C. SECTION 2406.4.2 (EXCEPTION), GLAZING SHALL BE OF SAFETY GLAZING MATERIAL (TEMPERED) IN FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.

SEAL

**Preliminary**  
02/23/2024 3:47:18 PM

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LAKE HAVASU CITY, ARIZONA**  
6634 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD

**SELBERG ASSOCIATES INC.**  
ARCHITECTURE & PLANNING  
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LAKE HAVASU CITY | ARIZONA | 86403  
(928) 955-5544

PROJECT NO. 23089

ISSUED FOR: PERMIT SET

ISSUED DATE: FEBRUARY 15, 2024

REVISION ISSUE DATE

SHEET TITLE:

DOOR AND WINDOW SCHEDULE

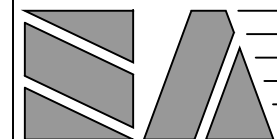
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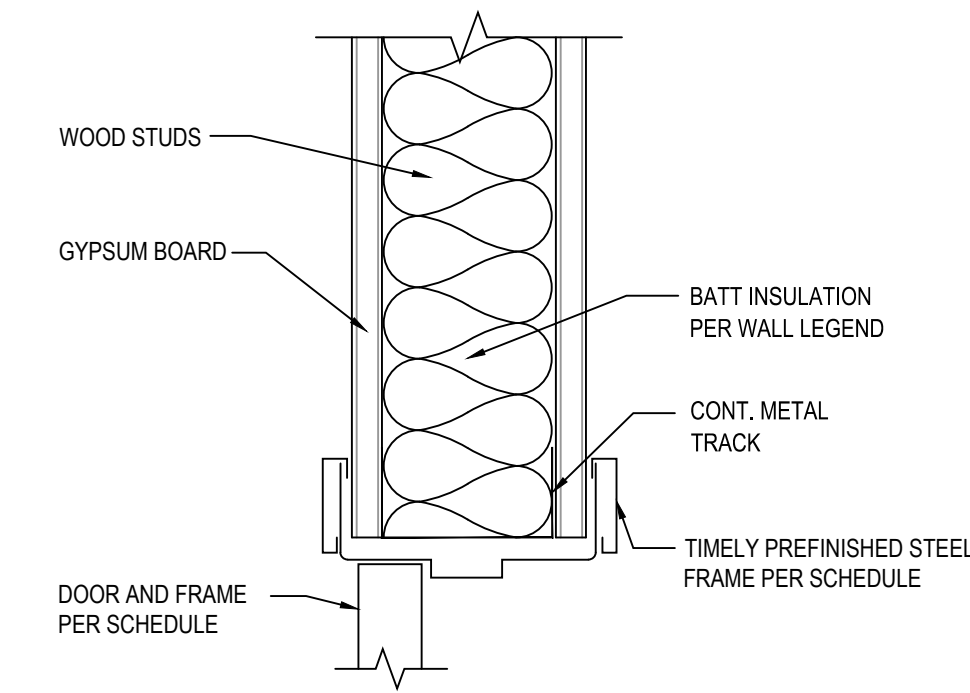
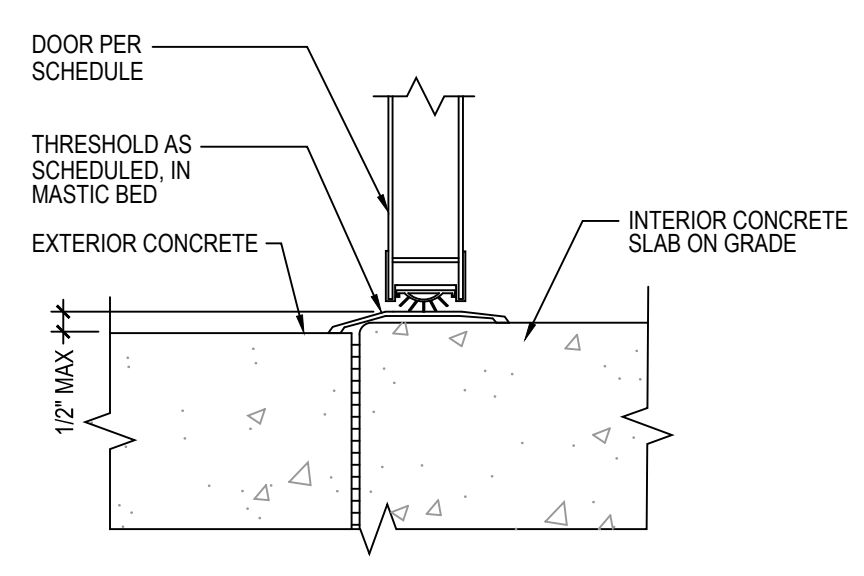
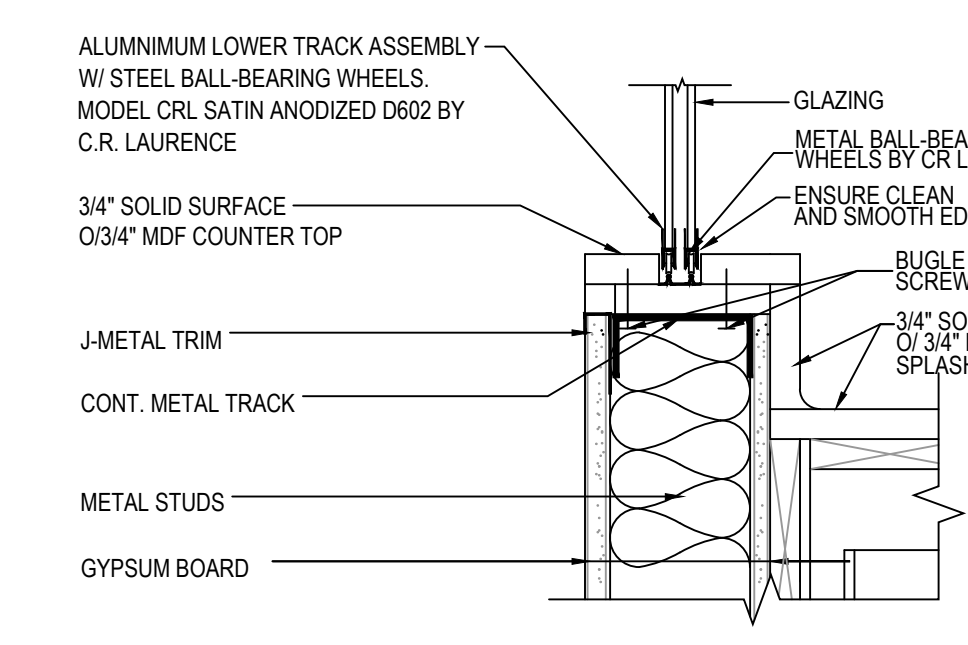
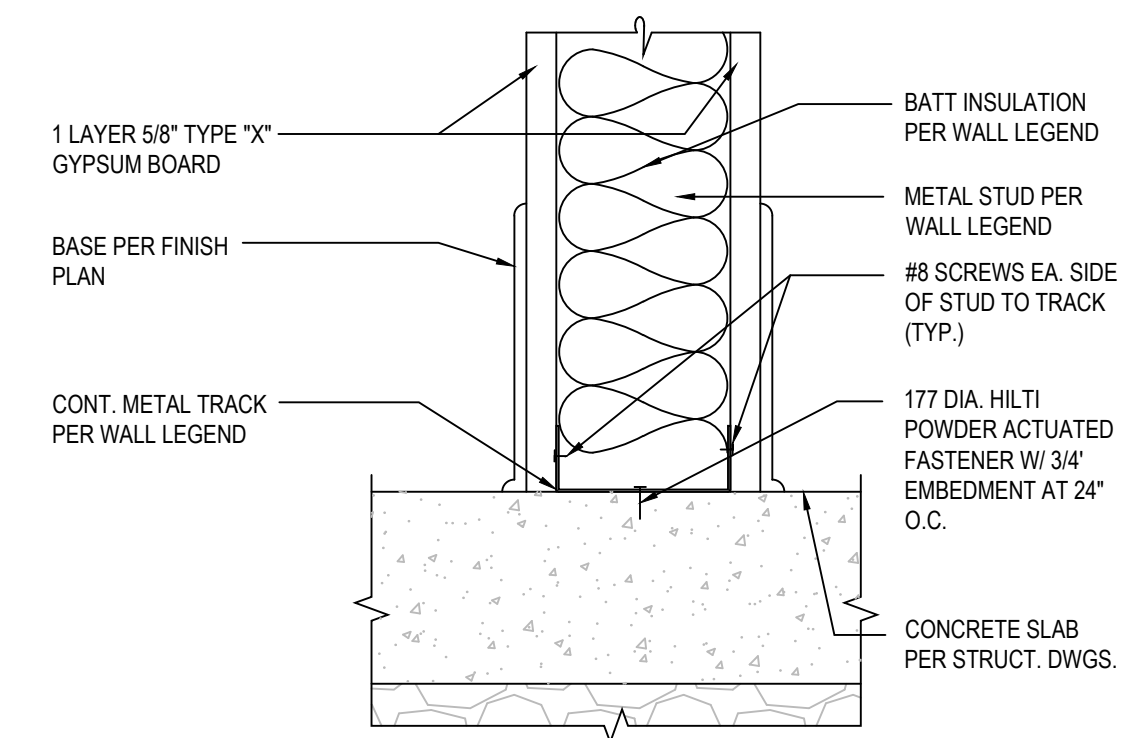
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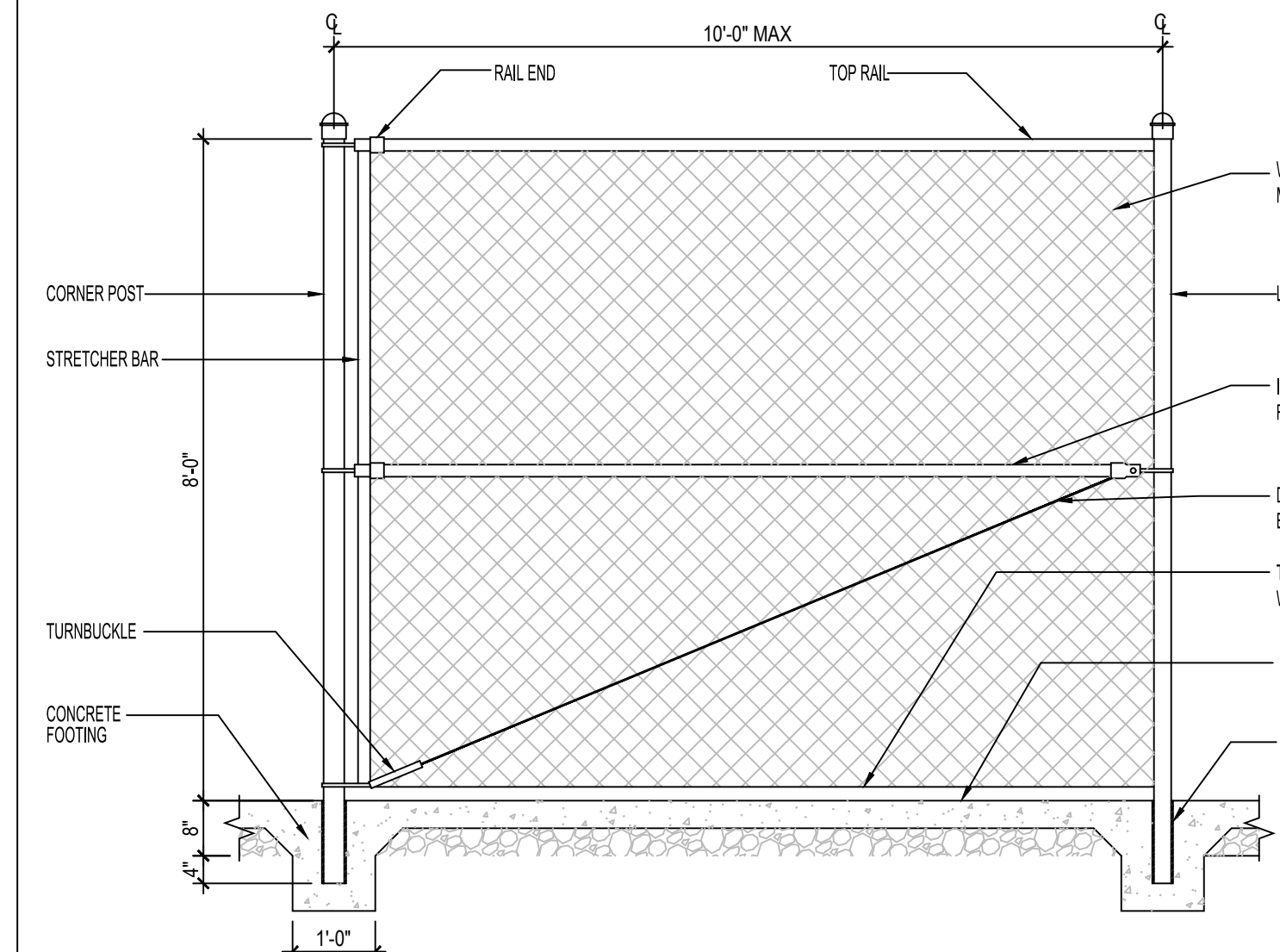
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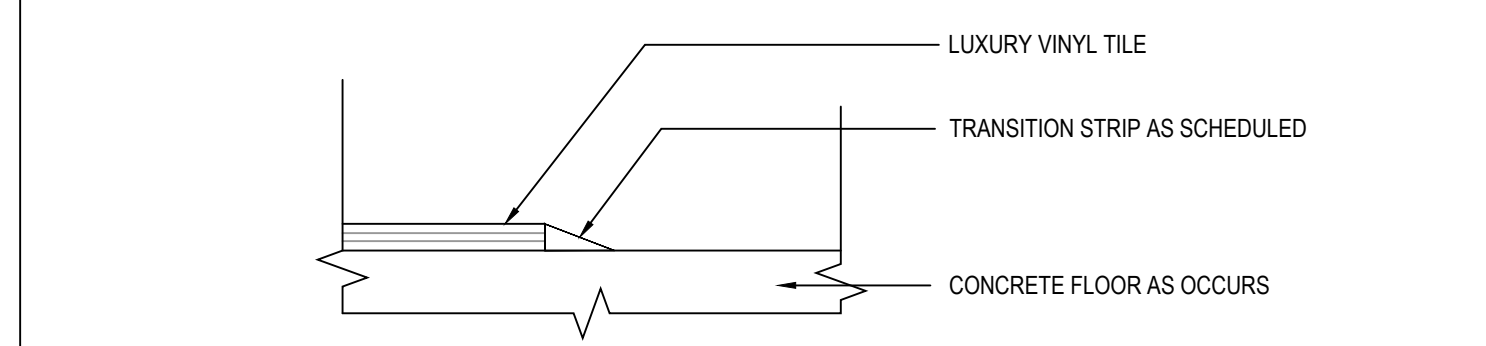
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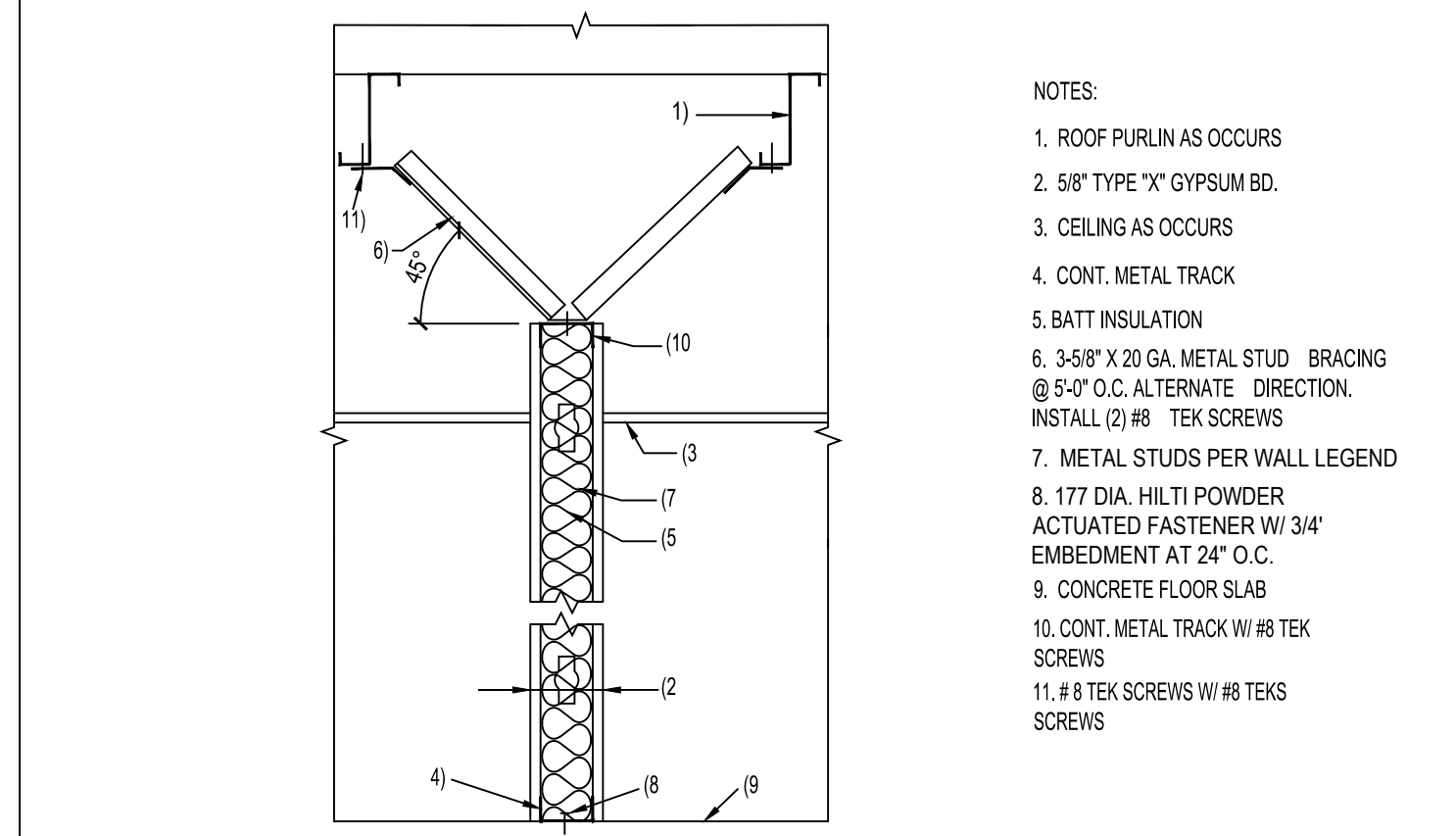
13 INTERIOR FLOOR PLATE DETAIL TYPICAL 3" = 1'-0"



14 CHAIN LINK FENCING DETAIL TYPICAL 1/2" = 1'-0"

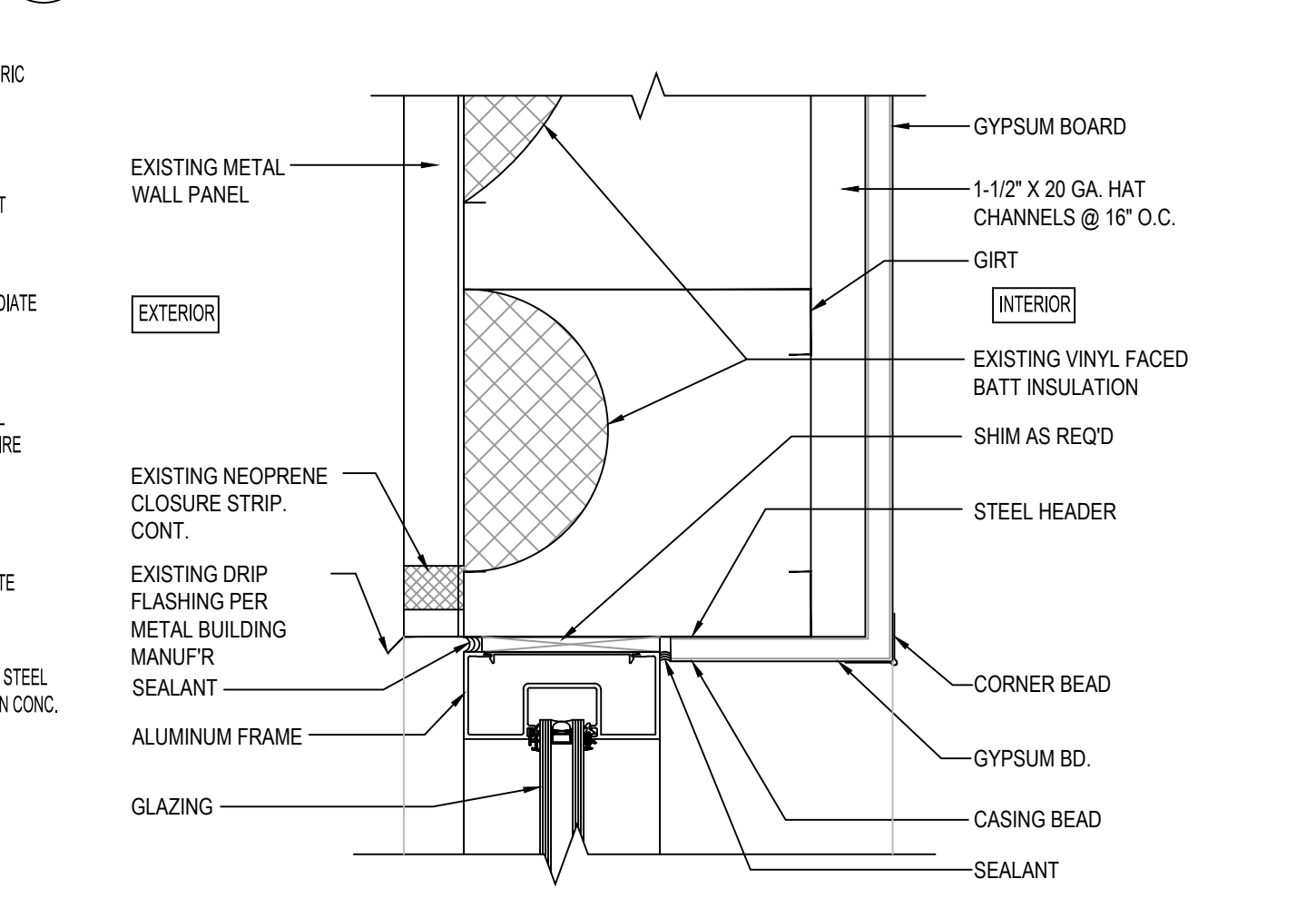


15 TRANSITION STRIP DETAIL - CONCRETE TO LVT TYPICAL 3" = 1'-0"

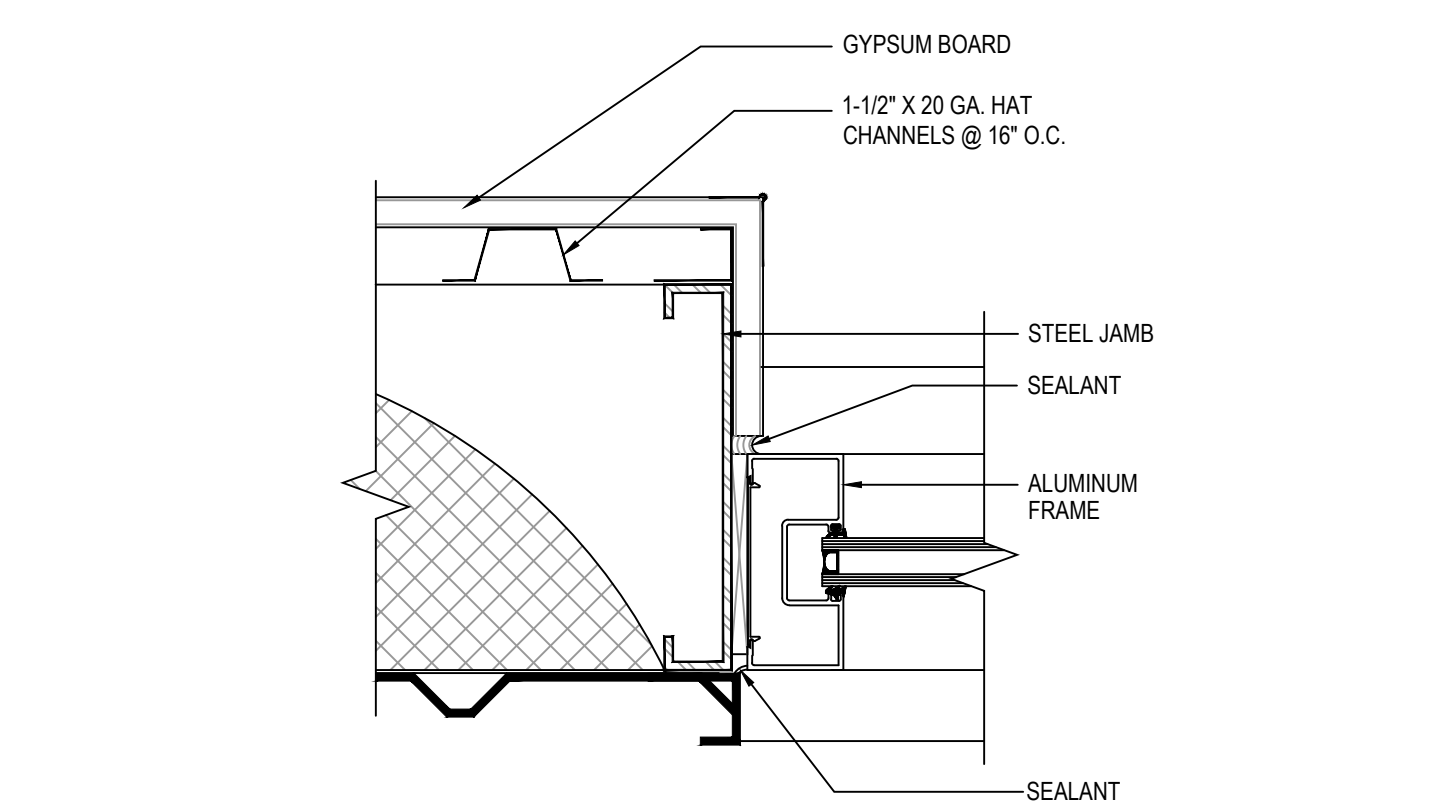


16 METAL STUD PARTIAL WALL BRACING TERMINATION PARALLEL TO PURLINS 1" = 1'-0"

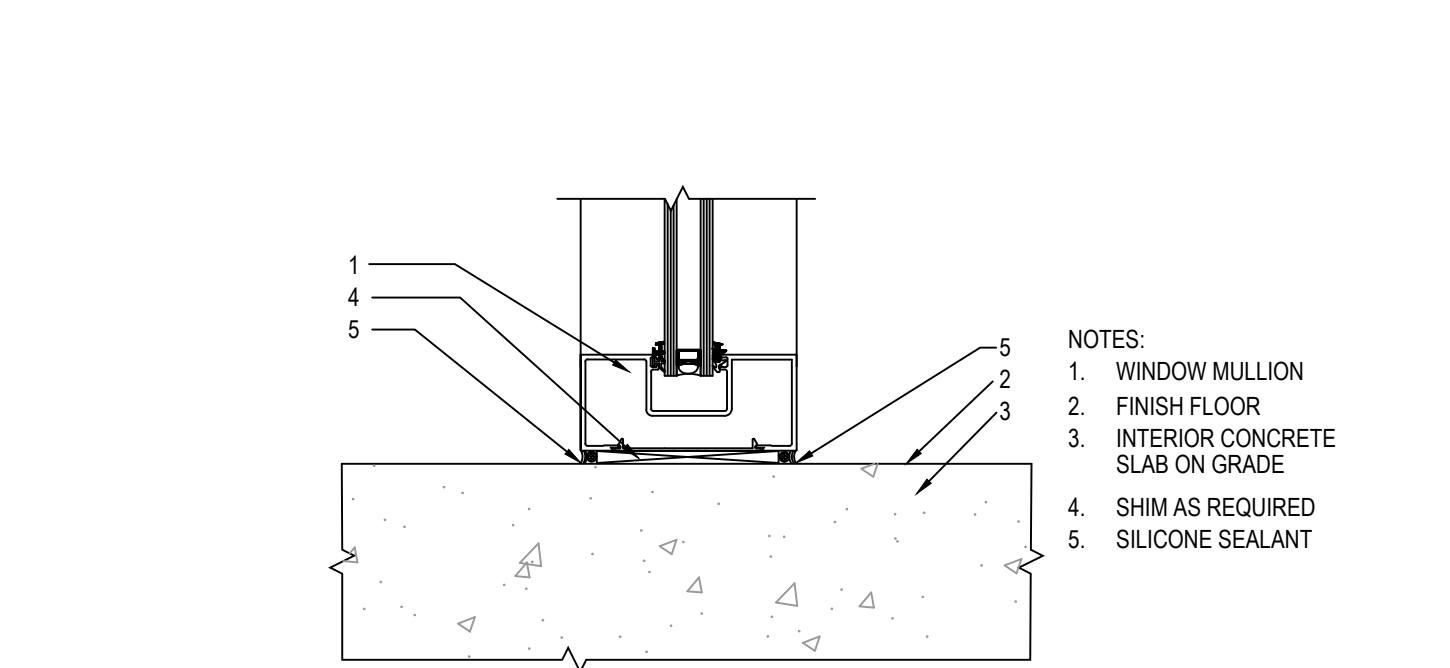
9 INTERIOR ALUMINUM HORIZONTAL SLIDER SILL DETAIL 3" = 1'-0"



10 HEAD DETAIL 3" = 1'-0"

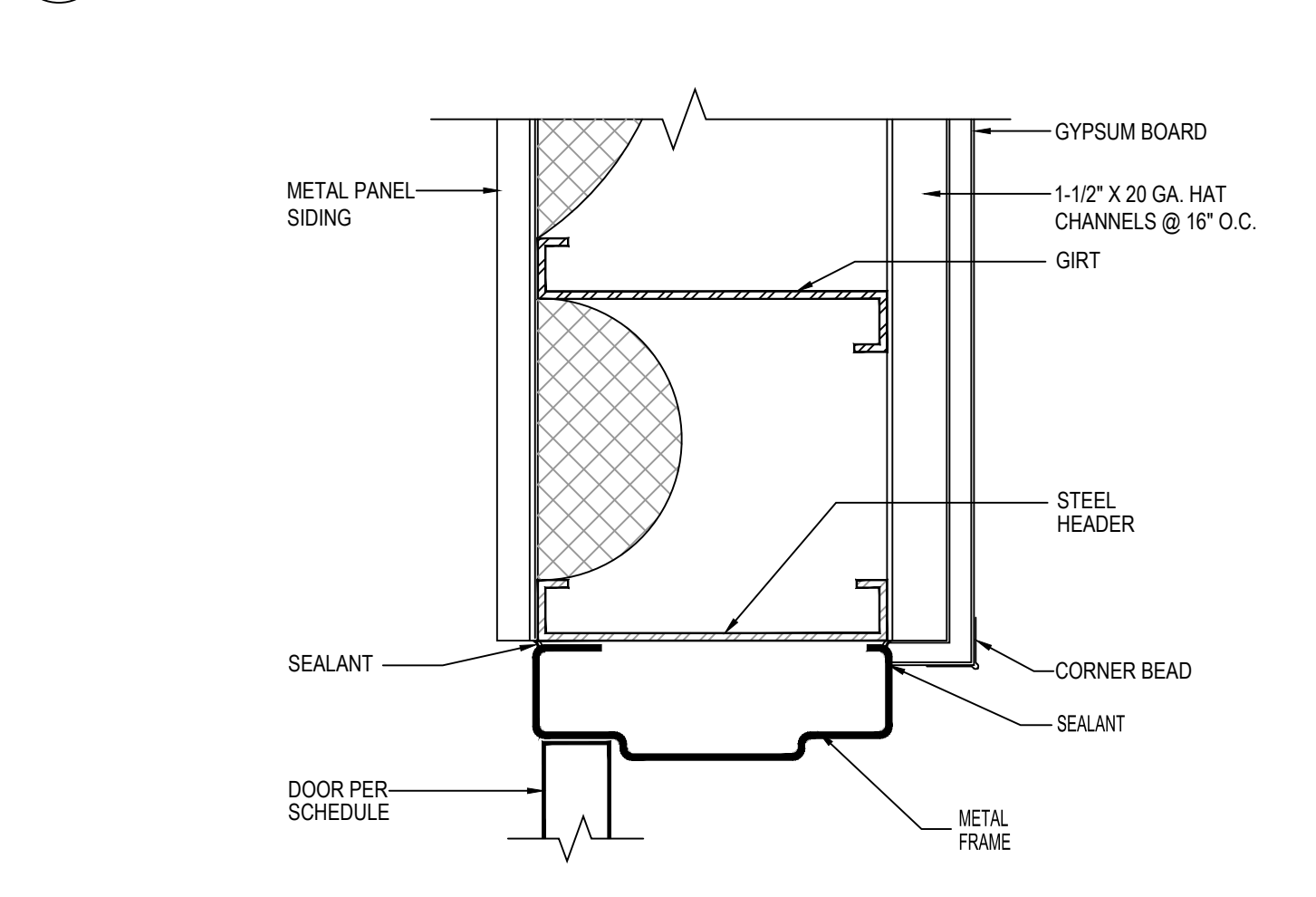


11 JAMB DETAIL 3" = 1'-0"

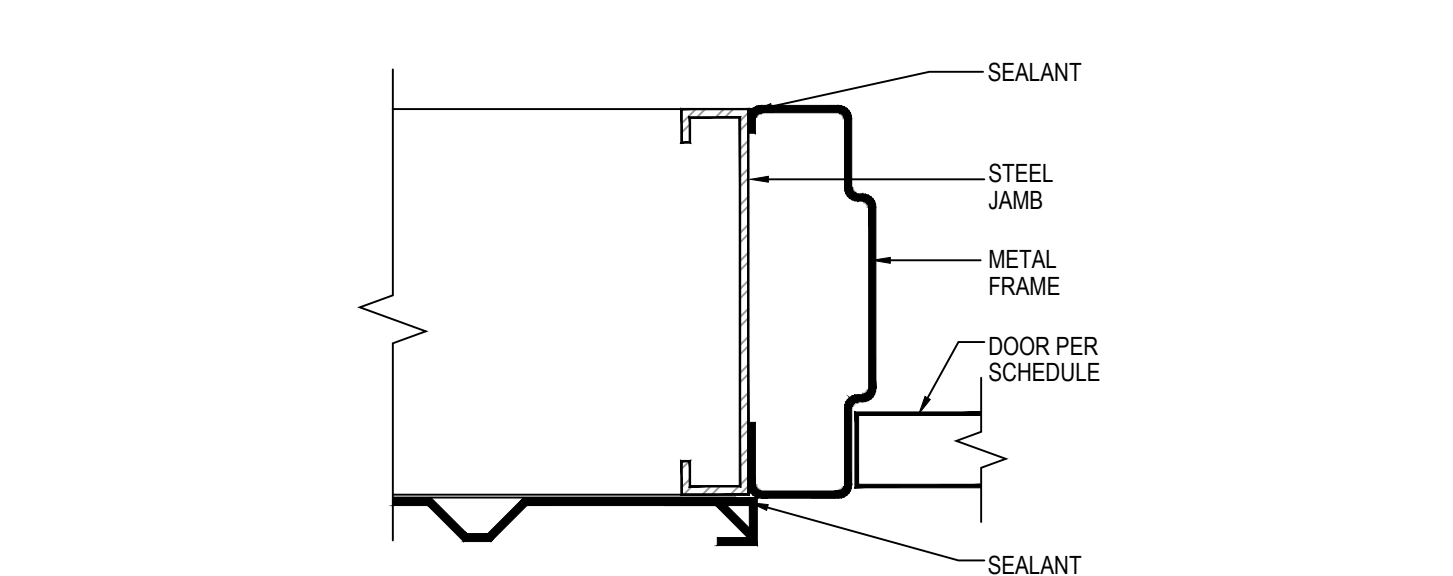


12 THRESHOLD DETAIL 3" = 1'-0"

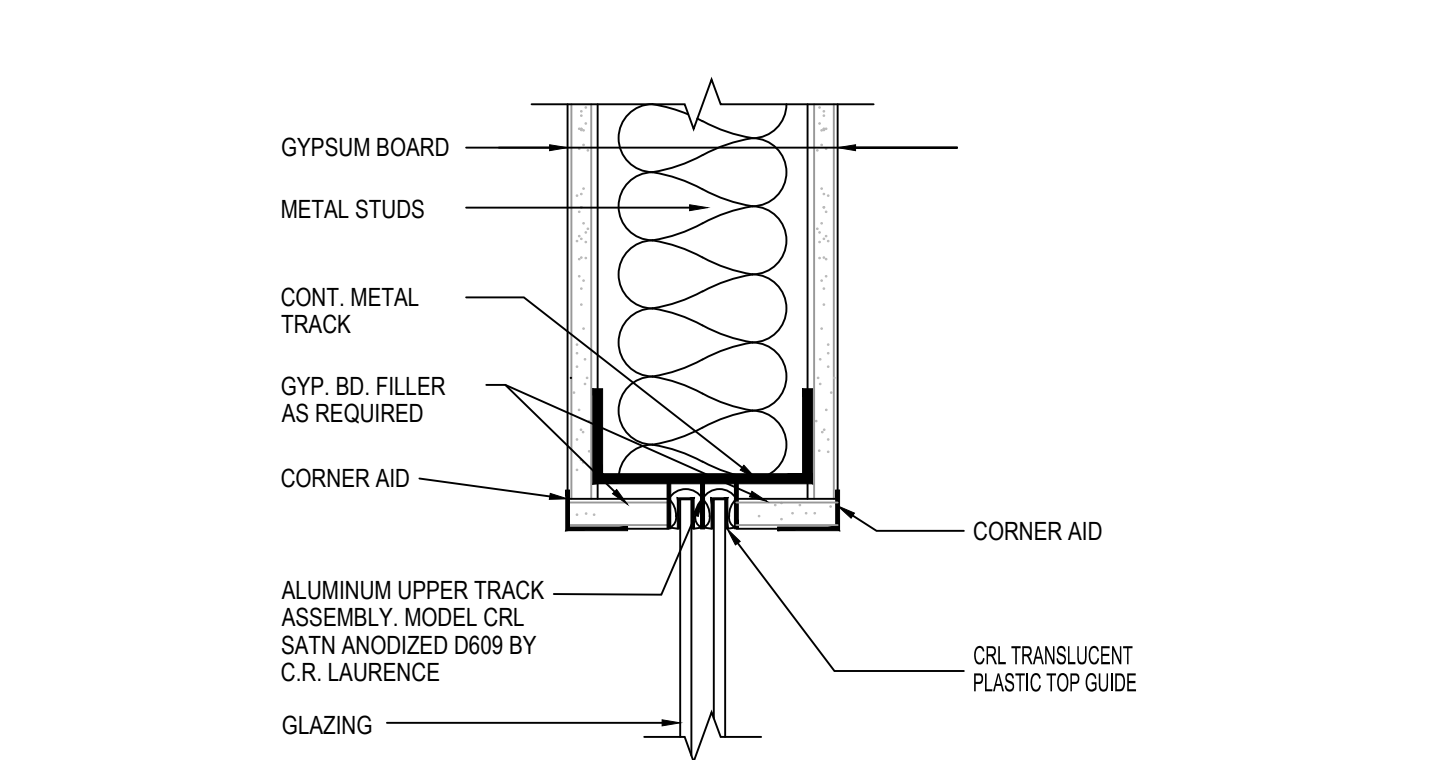
5 THRESHOLD DETAIL 3" = 1'-0"



6 HEAD DETAIL 3" = 1'-0"

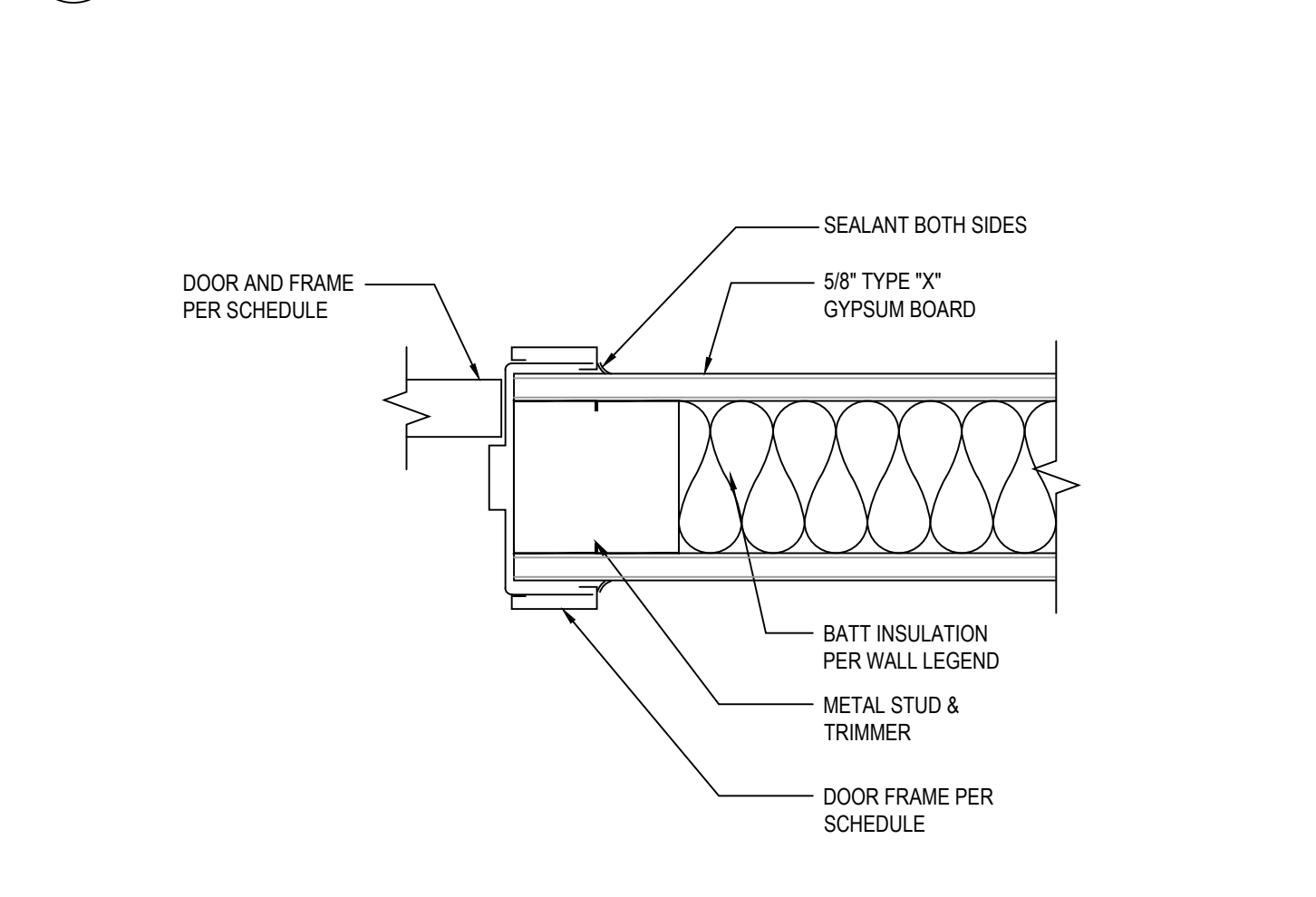


7 JAMB DETAIL 3" = 1'-0"

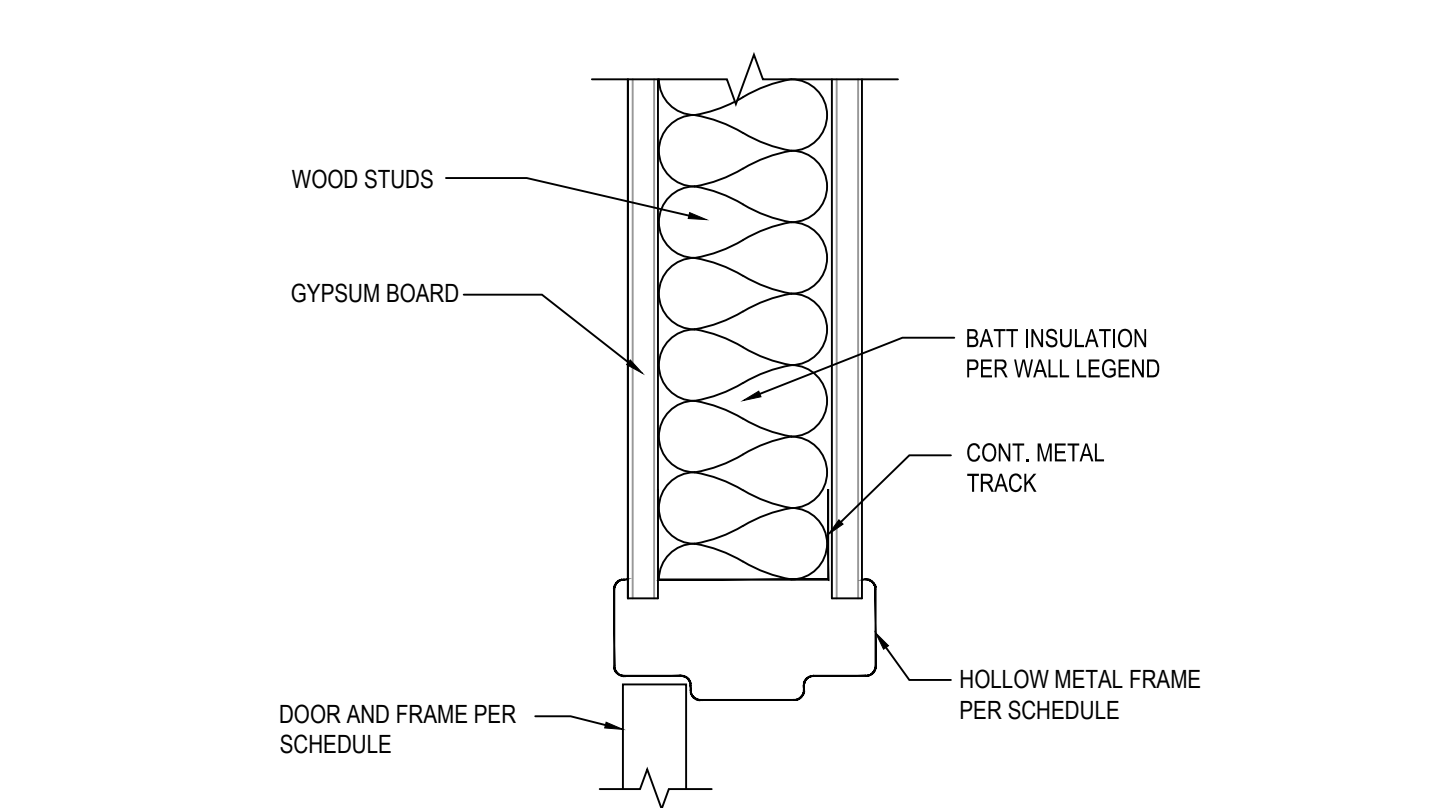


8 INTERIOR ALUMINUM HORIZONTAL SLIDER HEAD DETAIL 3" = 1'-0"

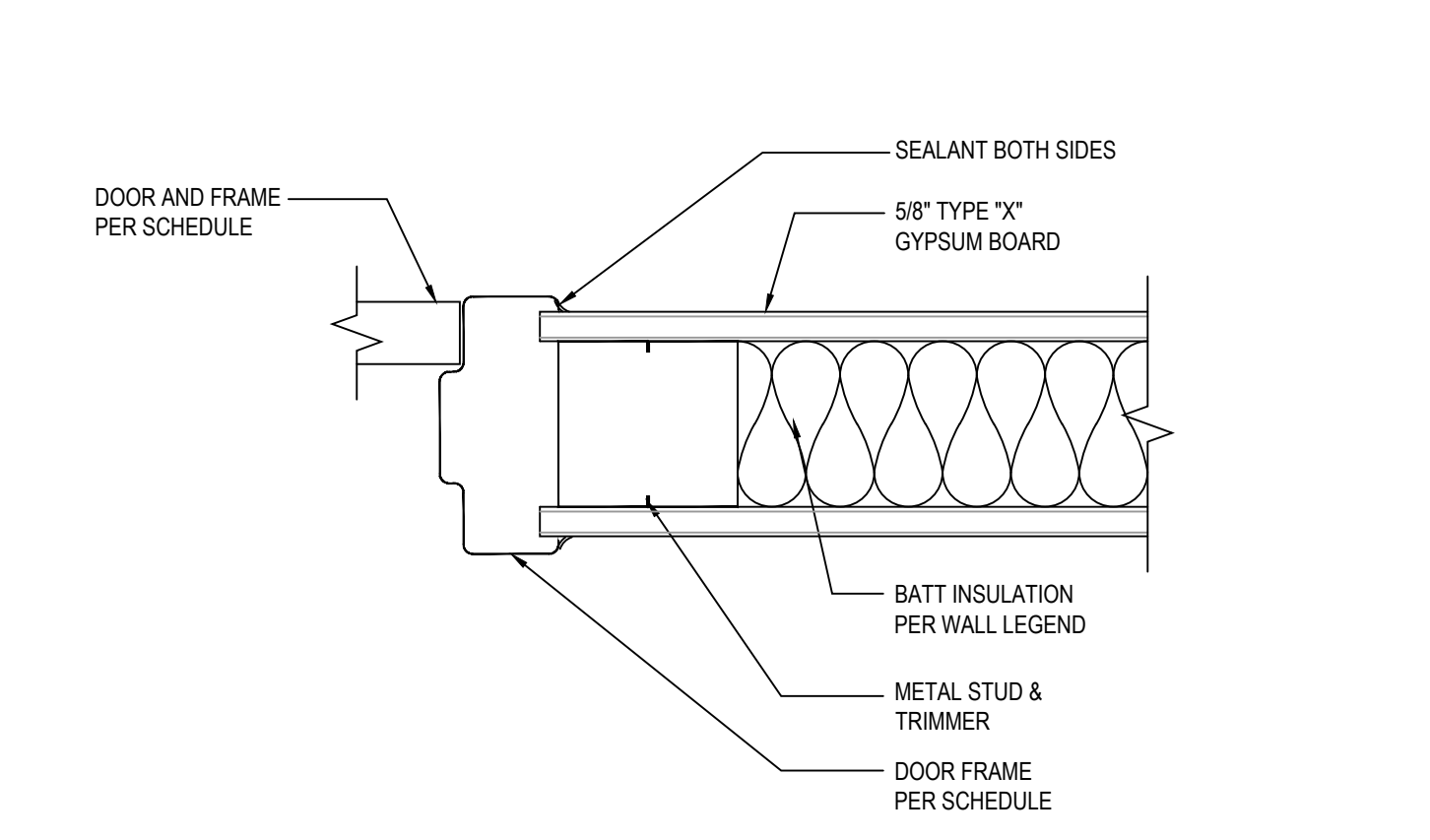
1 HEAD DETAIL 3" = 1'-0"



2 JAMB DETAIL 3" = 1'-0"




3 HEAD DETAIL 3" = 1'-0"



4 JAMB DETAIL 3" = 1'-0"

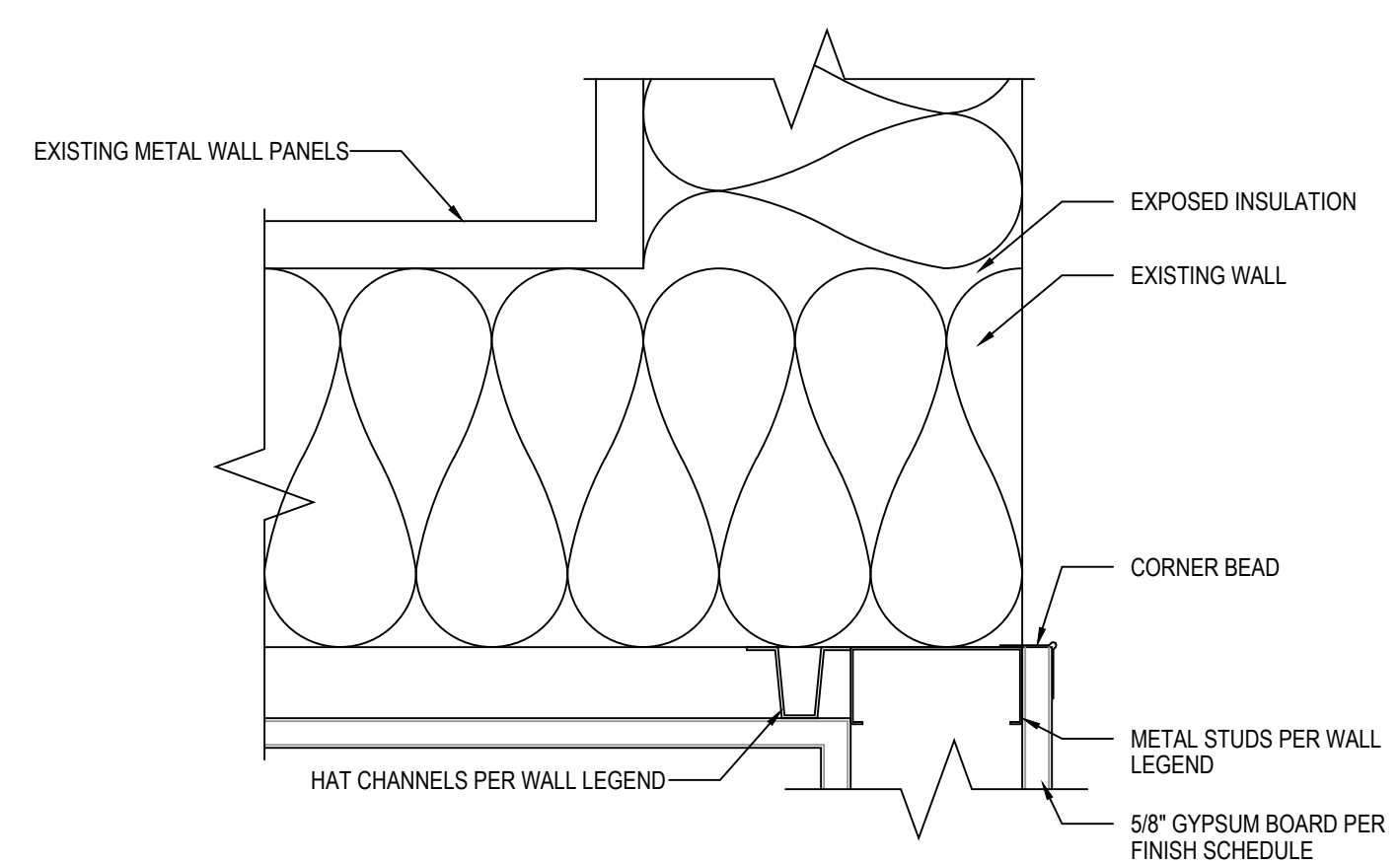
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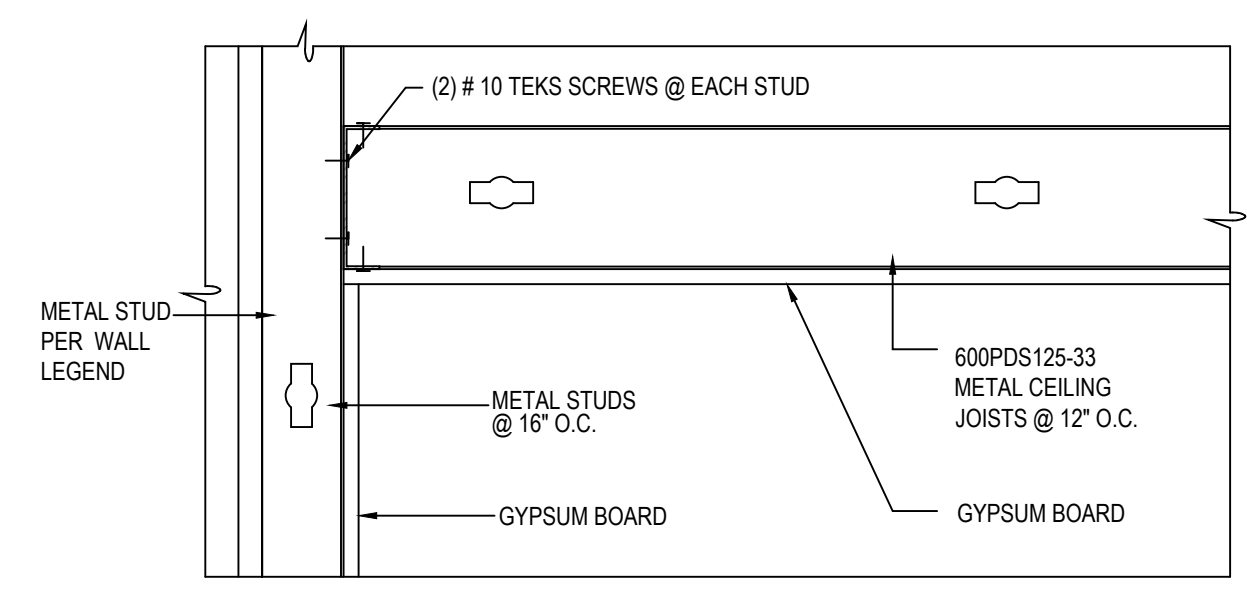
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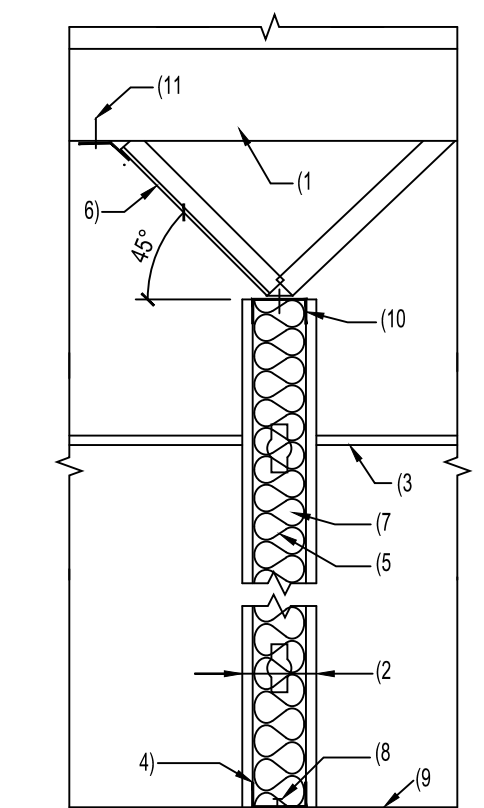
SHEET TITLE:  
 ARCHITECTURAL DETAILS  
 SHEET NO.



9 EXPOSED FINISH WALL TO GYPSUM BOARD FINISH DETAIL  
 3" = 1'-0"

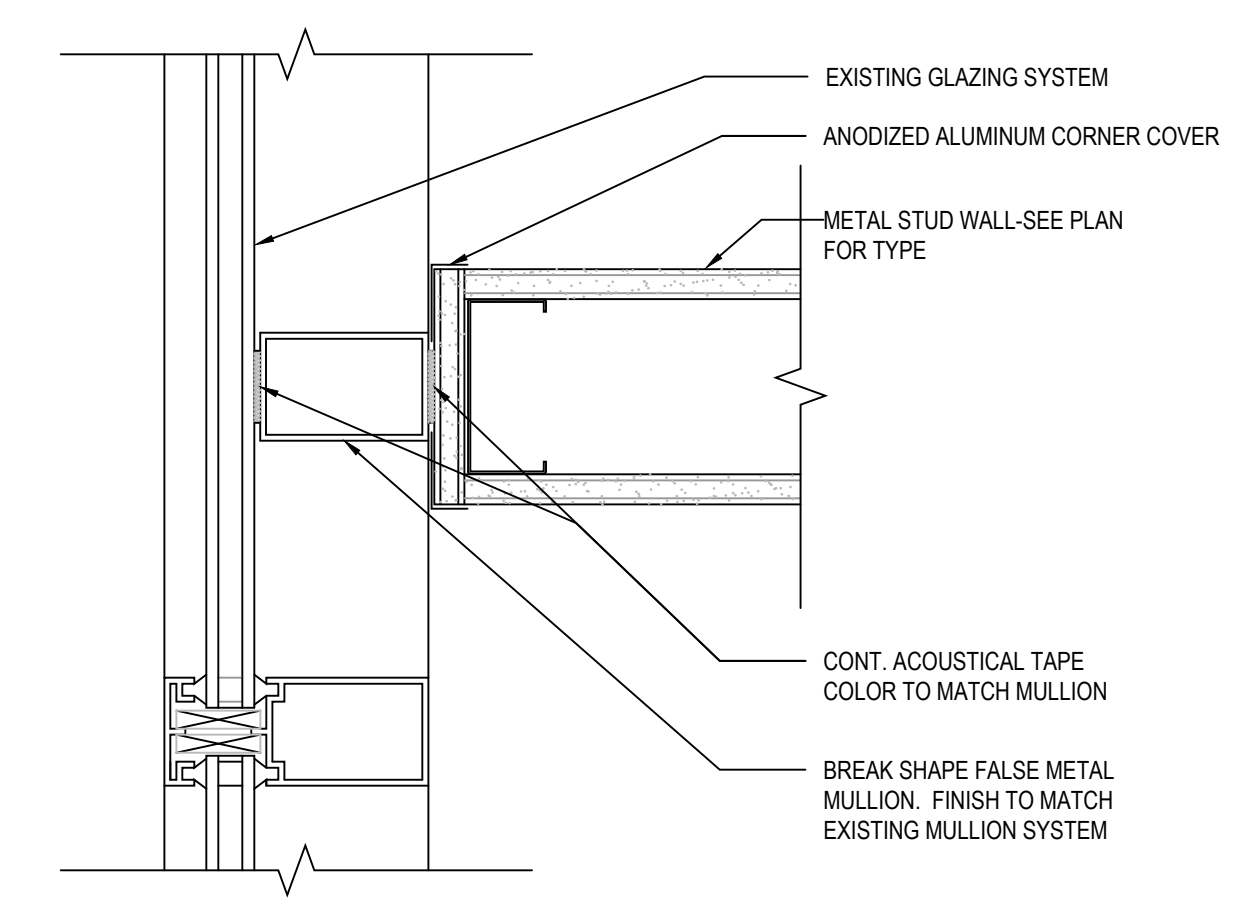


5 TYP. GYPSUM CEILING FRAMED AT WALL DETAIL PERPENDICULAR TO JOIST TYPICAL  
 1 1/2" = 1'-0"

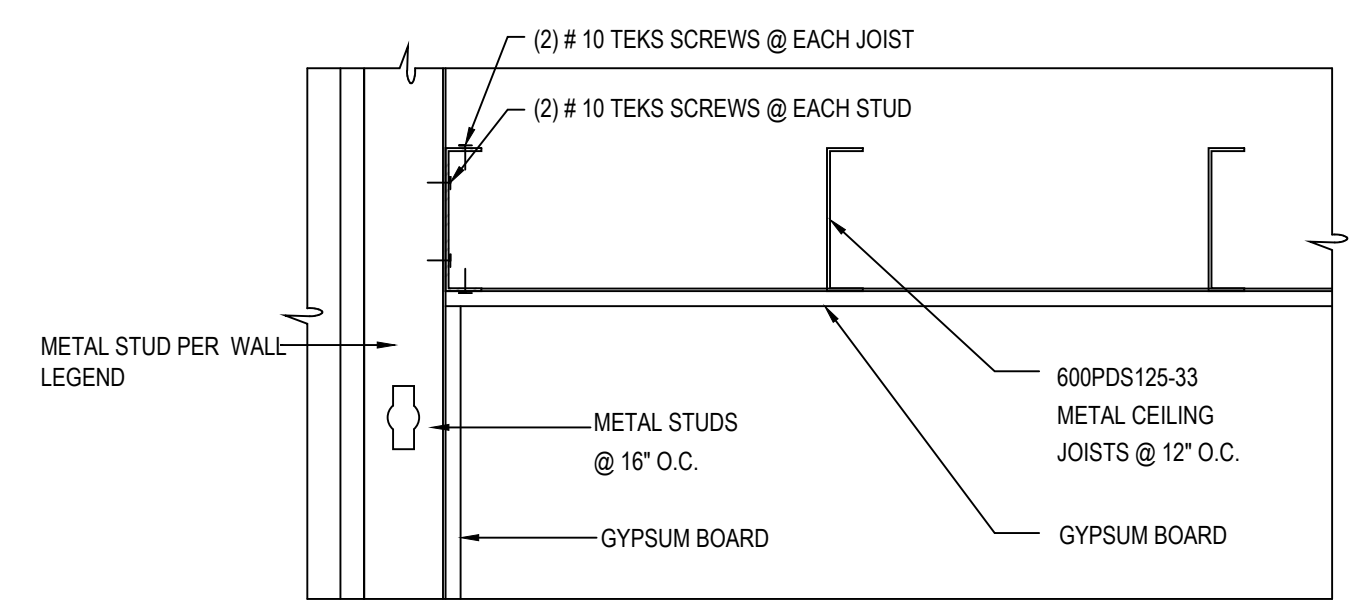


- NOTES:
1. ROOF PURLIN AS OCCURS
  2. 5/8" TYPE 'X' GYPSUM BD.
  3. CEILING AS OCCURS
  4. CONT. METAL TRACK
  5. BATT INSULATION
  6. 3-5/8" X 20 GA. METAL STUD BRACING @ 5'-0" O.C. ALTERNATE DIRECTION. INSTALL (2) #8 TEK SCREWS
  7. METAL STUDS PER WALL LEGEND
  8. 177 DIA. HILTI POWDER ACTUATED FASTENER W/ 3/4" EMBEDMENT AT 24" O.C.
  9. CONCRETE FLOOR SLAB
  10. CONT. METAL TRACK W/ #8 TEK SCREWS
  11. #8 TEK SCREWS W/ #8 TEK SCREWS

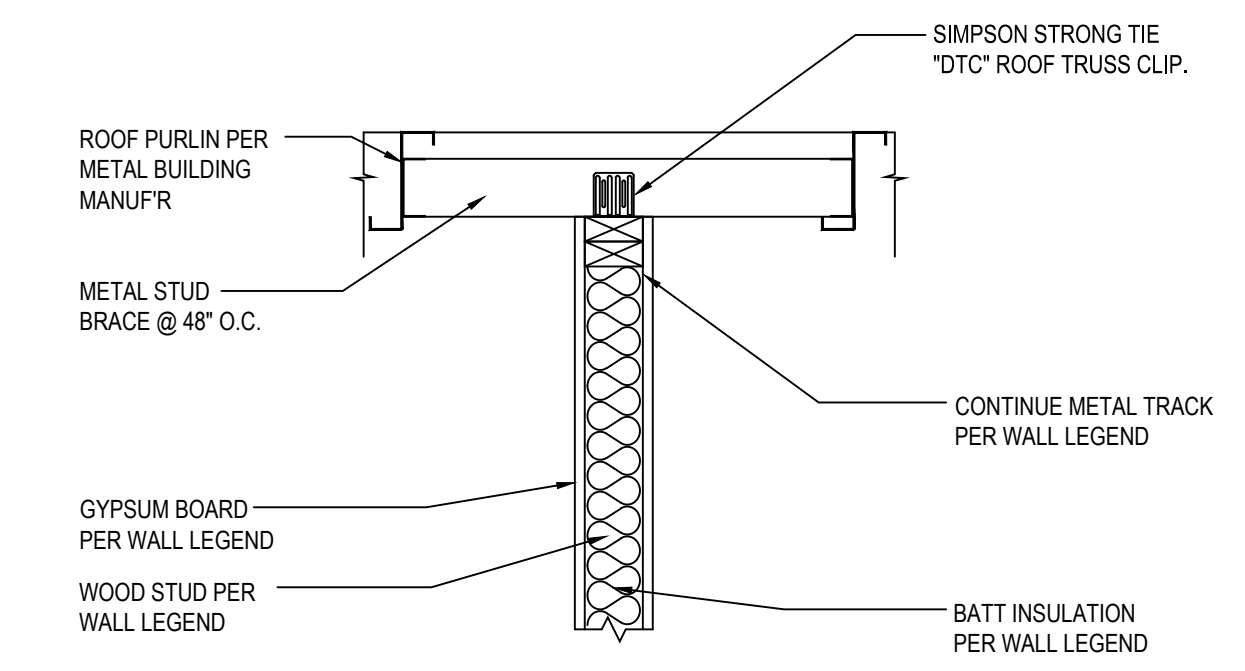
1 METAL STUD PARTIAL WALL BRACING TERMINATION PERPENDICULAR TO PURLINS  
 1" = 1'-0"



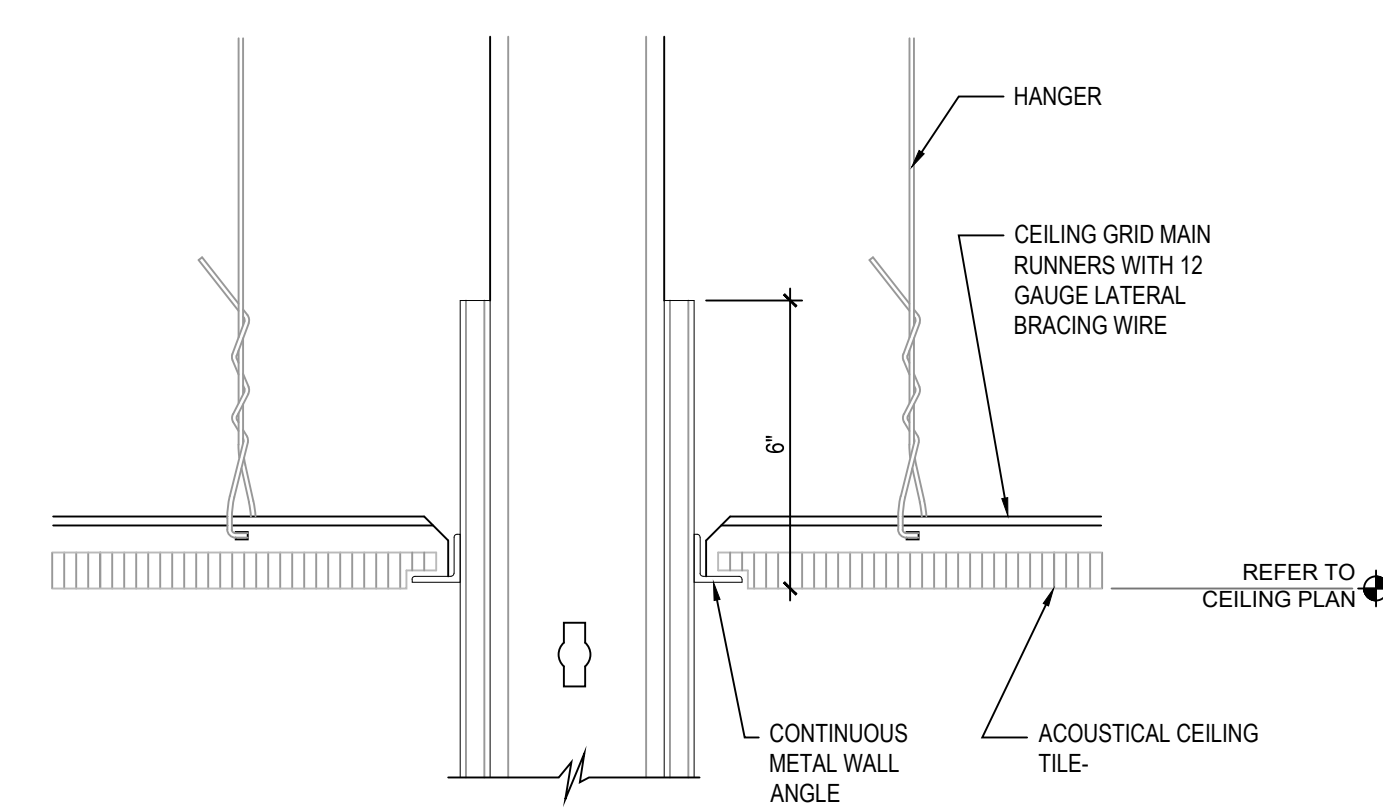
10 WALL TERMINATION AT FAUX MULLION DETAIL TYPICAL  
 3" = 1'-0"



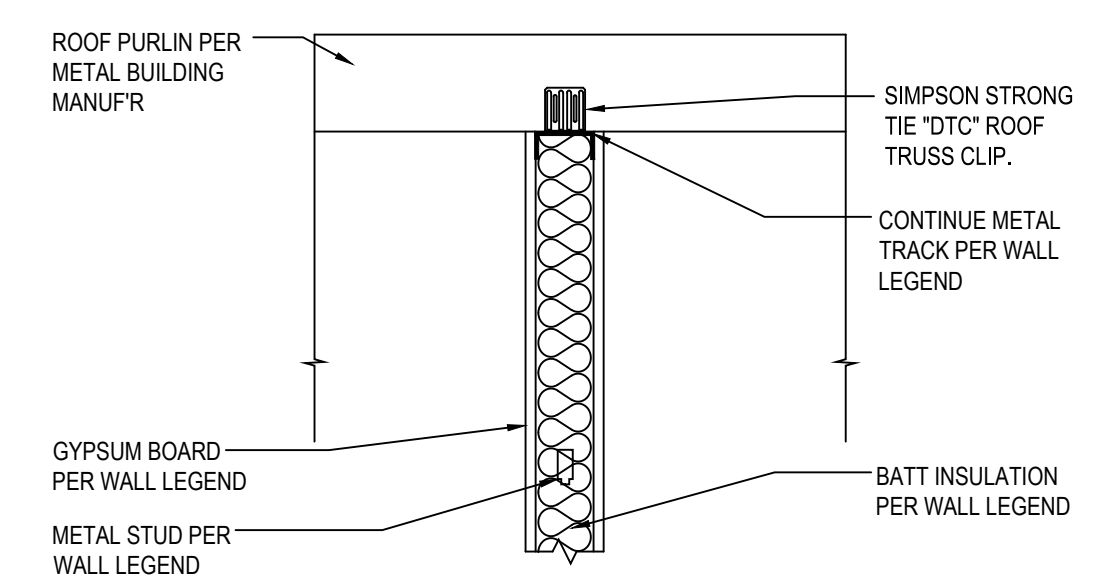
6 TYP. GYPSUM CEILING FRAMED AT WALL DETAIL PARALLEL TO JOIST TYPICAL  
 1 1/2" = 1'-0"



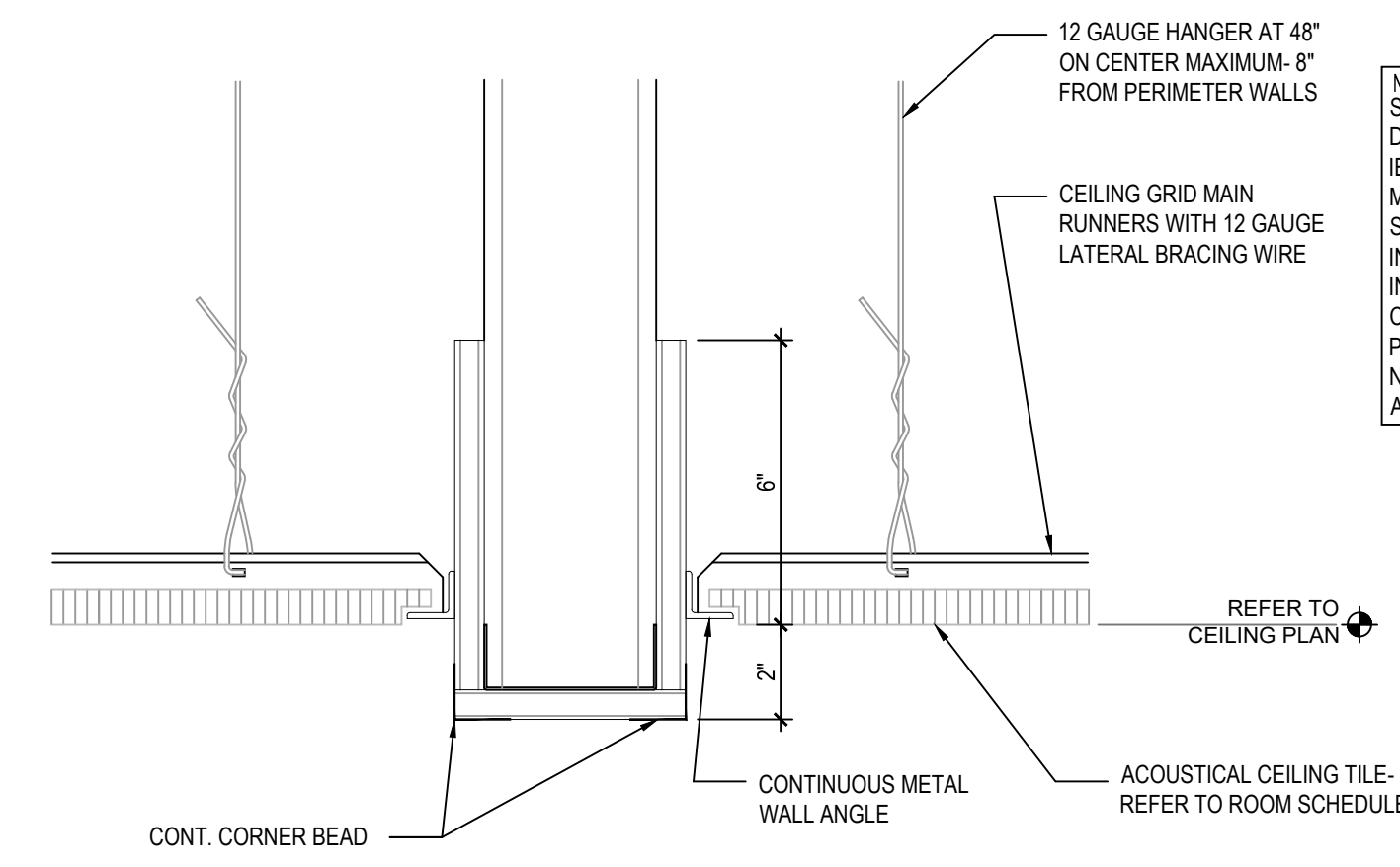
2 METAL STUD WALL BRACING UP TO DECK PARALLEL TO PURLINS  
 1" = 1'-0"



7 GYPSUM BOARD LAY-IN CEILING TRANSITIONAL DETAIL  
 3" = 1'-0"



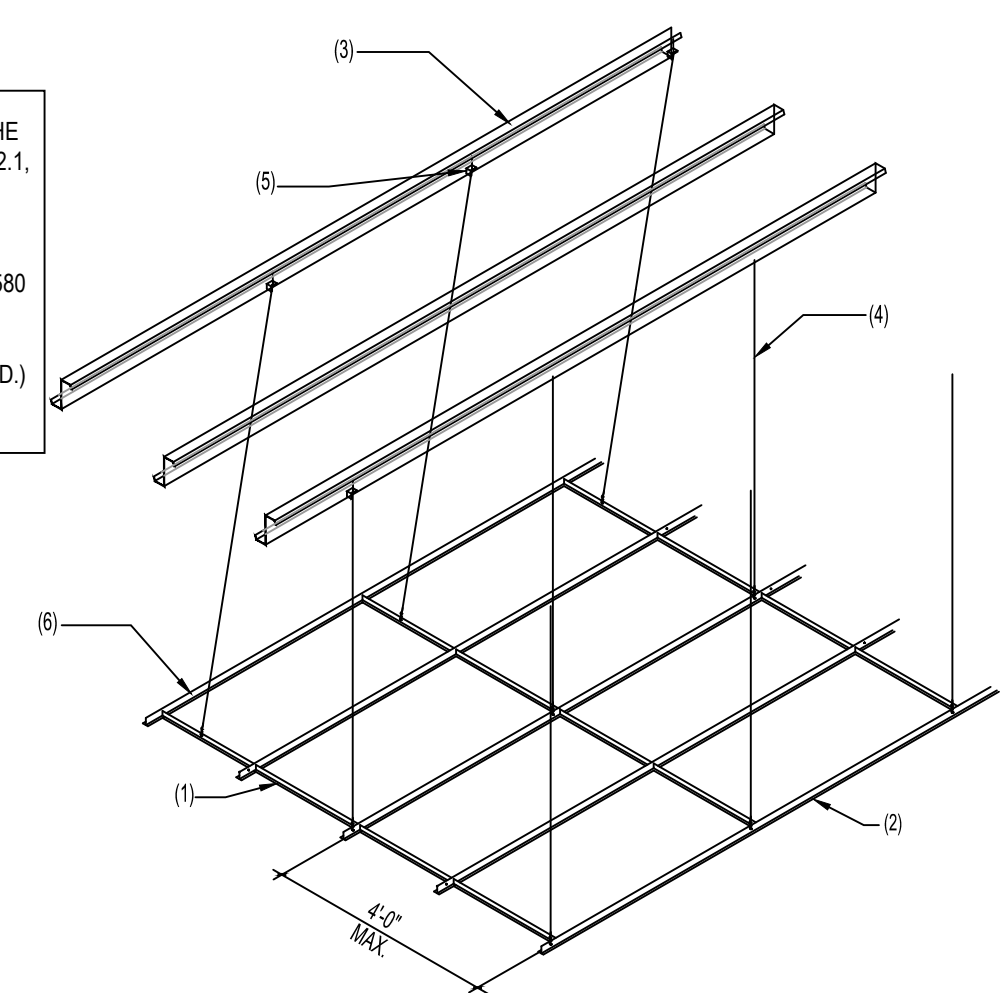
3 METAL STUD WALL BRACING UP TO DECK PERPENDICULAR TO PURLINS  
 1" = 1'-0"



8 GYPSUM BOARD HEADER & LAY-IN CEILING TRANSITIONAL DETAIL TYPICAL  
 3" = 1'-0"

NOTE:  
 SUSPENDED CEILING SYSTEMS MUST COMPLY WITH THE DESIGN CRITERIA NOTED IN ASCE 7-10 SECTION 15.5.6.2.1, IBC SECTION 609, ASTM C635, C636 AND E580, AND MANUFACTURER'S INSTALLATION INSTRUCTION AND SPECIFICATIONS. THE SUSPENDED CEILING SHALL BE INSTALLED AS A FREE-FLOATING SYSTEM PER ASTM E580 INSTALLATION REQUIREMENTS IN SEISMIC DESIGN CATEGORY 'C'. (NO WALL MOLDING ATTACHMENTS PERMITTED. SPREADER BARS AND/OR CLIPS REQUIRED.) NO WALL ATTACHMENT PERMITTED. SPREADER BARS AND/OR CLIPS REQ'D

- NOTES:
1. MAIN RUNNER
  2. CROSS RUNNER
  3. STRUCTURE AS OCCURS
  4. 12 GA. SWAY WIRE
  5. 12 GA. BENT ANCHOR CLIP
  6. EDGE WALL RUNNER



4 SUSPENDED CEILING DETAIL TYPICAL  
 1" = 1'-0"











10 14 23.16 – ROOM-IDENTIFICATION PANEL SIGNAGE (CONTINUE)

Letters and Braille characters: Raised 1/32 inch upper case, sans serif or simple serif, and accompanied with Grade 2 Braille. Raised characters shall be at least 5/8 inch (16mm) high, but not higher than 2 inches (50mm).

Letters and numbers: Width-to-height ratio from 3.5 to 1:1, and stroke width-to-height ratio from 1.5 to 1:10. Text: Required quantity of each sign shall be as directed by Architect.

Install:

Locate sign units and accessories where indicated, using mounting methods of the type described and in compliance with the manufacturer's instructions. Apply one coat of bluminous paint to concealed aluminum and steel surfaces in contact with cementitious or dissimilar materials. Install plumb and level in accordance with Manufacturer's instructions. Install engraved signs after surfaces are finished, in locations indicated. Securely fasten wall mounted items to solid backing. Clean and polish exposed surfaces.

Silicone-Adhesive Mounting: Use liquid silicone adhesive recommended by the sign manufacturer to attach sign units. Use double-sided vinyl tape where recommended by the sign manufacturer to hold the sign in place until the adhesive has fully cured.

Double-Stick Tape Mounting: Clean surfaces to be joined and apply double stick tape to back of wall mounted signage in continuous strips at approximate 2 inch center to center spacing between strips. Apply sign to wall surface taking care to properly align and plumb signage before removing release paper.

Submittals: Provide the following for Architect review:

- Product Data: Submit Manufacturer's brochures indicating materials and finishes.
Shop Drawings: Show sizes of members, method of construction, copy layout, and mounting details for proper mounting.
Samples: Furnish full size sample of typical sign. Submit anchoring device(s).

10 28 00 – TOILET, BATH AND LAUNDRY ACCESSORIES

Spec Section References : 09 72 00 Sealants

Section Includes: Toilet, bath and laundry accessories as indicated on drawings

Product:

To establish function, capacity and quality, toilet accessories are based on products of Bobrick Washroom Equipment Co., Inc. Comparable toilet accessory products by one of the following Manufacturers may be provided, as approved by the Architect, subject to compliance with Specification requirements.

- Bradley Corporation HYPERLINK "http://www.bradleycorp.com" www.bradleycorp.com
Bobrick Washroom Equipment Co., Inc. HYPERLINK "http://www.bobrick.com" www.bobrick.com
Gamco HYPERLINK "http://www.gamcousa.com" www.gamcousa.com
ASI HYPERLINK "http://www.americanspecialties.com" www.americanspecialties.com

Stainless Steel: AISI, Type 302/304, with satin No. 4 finish. Unless specified or indicated, the use of other.

10 44 00 – FIRE PROTECTION SPECIALTIES

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Submit Manufacturer's data and installation instructions for each item, including dimensions and anchorage details.

1.02 QUALITY ASSURANCE

A. Standards: Comply with ANSI/UL 92 and 711.

B. Regulatory Requirements: Conform to ANSI/NFPA 10 and the following:

- ANSI A117.1, 2009 "Accessible and Usable Buildings and Facilities."
Public Law 101-336 "The Americans with Disabilities Act (ADA)."
2010 ADA Accessibility Guidelines (ADAAG).
The Arizonans with Disabilities Act (AZDAAG)

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Furnish products of one of the following Manufacturers, except as approved by the Architect, subject to compliance with Specification requirements:

- Larsen's Manufacturing Co. www.larsensmfg.com
J.L. Industries www.jlindustries.com
General
Knox
Supra Products Co.

2.02 EQUIPMENT

A. Multi-Purpose Dry Chemical Extinguisher:

- Capacity and UL Rating: 5 lbs., 2A-10B.C.
Tank: DOT approved steel cylinder.
Metal valves and siphon tube.
Replaceable molded valve stem seal.
Pressure gauge.

B. Wall Bracket: Manufacturer's standard J-type for wall hung extinguishers.

C. Fire Extinguisher Cabinet:

- Model FS 2409-R3 as manufactured by Larsen's is acceptable. Provide fire-rated cabinets where required in fire-rated partitions.
Trim Style and Projection: As indicated on the Drawings, to fit 4 inch deep cavity in partition.
Inside box dimensions - 24" x 9-1/2" x 5" minimum.
Door:
Vertical Duo.
Trim and Door (Stainless Steel): One piece, constructed of #4 finish, 304 stainless steel. Doors to be tubular, hollow-metal design.
Door Glazing: Glass, clear, 1/8 inch thick float tempered.
Recessed Box: Heavy gauge, black baked acrylic enamel box.
Cabinet Signage: Vertical lettering "FIRE EXTINGUISHER" on door; color red.
Cabinet Mounting Hardware: Appropriate to cabinet.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of Conditions: Examine subsurfaces to receive Work and report detrimental conditions in writing to Architect. Commencement of Work will be construed as acceptance of subsurfaces.

B. Coordination: Coordinate with other Work which affects, connects with, or will be concealed by this Work.

3.02 INSTALLATION

A. Install items in accordance with Manufacturer's directions. Install cabinets plumb and level at heights shown on Drawings.
B. Comply with regulatory requirements and anchor securely.
C. Verify that extinguishers are charged and tagged.
D. Place extinguishers in cabinets and on wall brackets.

3.03 CLEANING

A. During the course of the Work and on completion, remove and dispose of excess materials, equipment and debris away from premises. Leave Work in clean condition.

12 36 23 – PLASTIC-LAMINATE-CLAD COUNTERTOPS

Section Includes: Plastic laminate countertops as indicated on Drawings and as specified.

Standards: Perform work in accordance with "Architectural Woodwork Standards". Provide Premium when not otherwise indicated.

Qualifications: Manufacturer shall be company specializing in manufacturing the products specified in this Section with minimum 3 years documented experience.

Products:

Furnish plastic products of one of the following Manufacturers, except as approved by the Architect, subject to compliance with Specification requirements:

- Formica HYPERLINK "http://www.formica.com" www.formica.com
Nevarmar HYPERLINK "http://www.nevarmar.com" www.nevarmar.com
Laminart HYPERLINK "http://www.laminart.com" www.laminart.com
Pionite HYPERLINK "http://www.pionite.com" www.pionite.com
Wilsonart HYPERLINK "http://www.wilsonart.com" www.wilsonart.com

Softwood Plywood: DOC PS 1, MDO (Medium Density Overlay), or other overlay plywood product suitable for application of plastic laminate as approved by the Architect.

Wood Particleboard: Standard in accordance with applicable standard specified herein under "Quality Assurance," for grade of work specified, composed of wood chips, 45 lb. density, made with water resistant adhesive; of grade to suit application; sanded faces for drawer construction and shelving.

Plastic Laminate: High pressure decorative type.
Horizontal Grade: NEMA LD-3, Grade GP50, .050 inch (1.27mm) thickness.
Post Forming Grade: NEMA LD-3, Grade PF 42.
Finishes, Colors and Patterns: As selected by Archited.

Adhesive: Type recommended by Laminate Manufacturer to suit application.

Bolts, Nuts, Washers, Legs, Pins, and Screws: Of size and type to suit application. Threaded steel for concealed joints.

Fabrication: Provide plastic laminate faced countertops with postformed back splash and separate side splashes with integral scribe for fitting to wall. Provide post-formed waterfall edges for countertop edge treatment. Locate counter bulb joints minimum 2 feet (600mm) from sink cut-outs. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting. Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arrises. Provide cutouts for appliances, outlet boxes, fixtures and fittings. Verify locations of cutouts from on-site dimensions. Seal contact surfaces of cut edges.

Preparation: Examine subsurfaces to receive Work and report detrimental conditions in writing to Architect. Commencement of Work will be construed as acceptance of subsurfaces. Coordinate with other Work which affects, connects with, or will be concealed by this Work.

Install: Set and secure countertops in place; rigid, plumb and level, and in accordance with applicable standard specified herein. Secure and align adjoining counter tops with concealed joint fasteners. Where exposed anchors or fasteners are unavoidable in the finish Work, countersink anchorage devices at exposed locations and conceal with plastic or laminate faced plugs to match surrounding plastic laminate, finish flush with surrounding surfaces.

Submittals: Provide the following for Architect review:

- Shop Drawings: Submit Drawings showing layout, elevations, dimensions, hardware, construction details, and schedule of finishes.
Samples: Submit two 6 inch x 6 inch samples of type or color of plastic laminate.

12 36 61 – SOLID SURFACING COUNTERTOPS

Section Includes: Solid surface countertop(s) as indicated on Drawings and as specified.

Qualifications - Fabricator/Installer:

- Certified or approved by the Manufacturer.
Subject to approval by Architect.
Have adequate physical facilities and sufficient production capacity to produce, transport, deliver, and install the required units without causing delay in the work.
Have a minimum of 2 years of fabrication experience.

Warranty: Provide manufacturer's ten year limited warranty against visible defects and failure due to manufacturing defects. Damage caused by physical or chemical abuse or damage from excessive heat is excluded from warranty. Warranty shall provide material and labor to repair or replace defective materials.

Product:

Solid surface countertop(s): As scheduled on Drawings.

Adhesives:

- Joint Adhesive: To create inconspicuous, non-porous joints. Color to match fabrication material.
Panel Adhesive: ANSI A136.1-1967 and UL(R) listed.

Sealant: For conditions exposed to moisture; Manufacturer's standard midew-resistant, FDA/UL(R) recognized silicone sealant in colors matching components. For conditions not exposed to moisture, Manufacturer's standard silicone sealant in colors matching polymer material.

Fabrication:

Kitchen Countertops and Restroom Vanities:

- Solid Surface with splash blocks at sides, rear and front apron as noted on Drawings.
Product and Color: Solid Surface in accordance with Finish Schedule on Drawings.
Provide concealed steel angle support bracket (if applies).
Edge detail: 1-1/2 inch front edge apron with square edge, unless noted otherwise.
4 inch backsplash in all rooms where counter occurs, unless noted otherwise.

Provide edge details as shown on the Drawings. Exposed joints shall be in locations shown on the Drawings. Seams not indicated on the Drawings shall be unexposed and adhesively joined. Provide backsplashes, where shown on the Drawings, to dimensions shown on the Drawings. Provide lavatories/sinks in locations shown on the drawings

Factory fabricate components to greatest extent practicable to sizes and shapes indicated, in accordance with approved shop drawings.

Form joints between components using manufacturer's standard joint adhesive, without conspicuous joints. Provide factory cutouts for plumbing fittings and bath accessories as indicated on the drawings. Cut and finish component edges with clean, sharp returns. Route radii and contours to template. Repair or reject defective and inaccurate work. Provide concealed steel angle support bracket.

Preparation: Examine subsurfaces to receive Work and report detrimental conditions in writing to Architect. Commencement of Work will be construed as acceptance of subsurfaces. Coordinate with other work which affects, connects with, or will be concealed by this Work.

Install:

Install components plumb and level, scribed to adjacent finishes, in accordance with approved shop drawings and manufacturer's installation instructions. Form field joints using manufacturer's recommended adhesive, with joints inconspicuous in finished work. Keep components and hands clean when making joints. Provide backsplashes and sidesplashes as indicated on the drawings. Adhere to countertops using manufacturer's standard color-matched silicone sealant and panel adhesive. Keep components and hands clean during installation. Remove adhesives, sealants and other stains. Keep clean until Date of Substantial Completion. Replace stained components.

Lavatories/Sinks:

- Make plumbing connections to sinks in accordance with applicable Division 23 Sections. Adhere undermount sinks/bowls to countertops using manufacturer's recommended adhesive and mounting hardware.
Sink/Bowl Mounting Hardware: Manufacturer's approved bowl clips, panel inserts and fasteners for attachment of undermount sinks/bowls.

Submittals: Provide the following for Architect review:

- Product Data: Indicate product description, fabrication information and compliance with specified performance requirements.
Shop Drawings: Indicate dimensions, component sizes, fabrication details, attachment provisions and coordination requirements with adjacent work.
Samples: Submit minimum 6 inches x 6 inches (156 mm x 156 mm) samples. Indicate full range of color and pattern variation. Approved samples will be retained as a standard for work.
Maintenance Data: Submit manufacturer's care and maintenance data, including repair and cleaning instructions.

SEAL

Preliminary

02/23/2024 3:47:19 PM

DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF THE DESIGN PROFESSIONAL. COPIES OF THE DRAWINGS AND SPECIFICATIONS RETAINED BY THE CLIENT MAY BE UTILIZED ONLY FOR HIS USE AND FOR OCCUPYING THE PROJECT FOR WHICH THEY WERE PREPARED, AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECTS.

PROJECT NAME: MOHAVE COUNTY SHERIFF'S OFFICE T.I. LAKE HAVASU CITY, ARIZONA 6634 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD SELBERG ASSOCIATES INC. ARCHITECTURE & PLANNING 2130 MESQUITE AVE | SUITE 204 LAKE HAVASU CITY | ARIZONA | 86403 (928) 955-9544

PROJECT NO. 23089

ISSUED FOR: PERMIT SET

ISSUED DATE: FEBRUARY 15, 2024

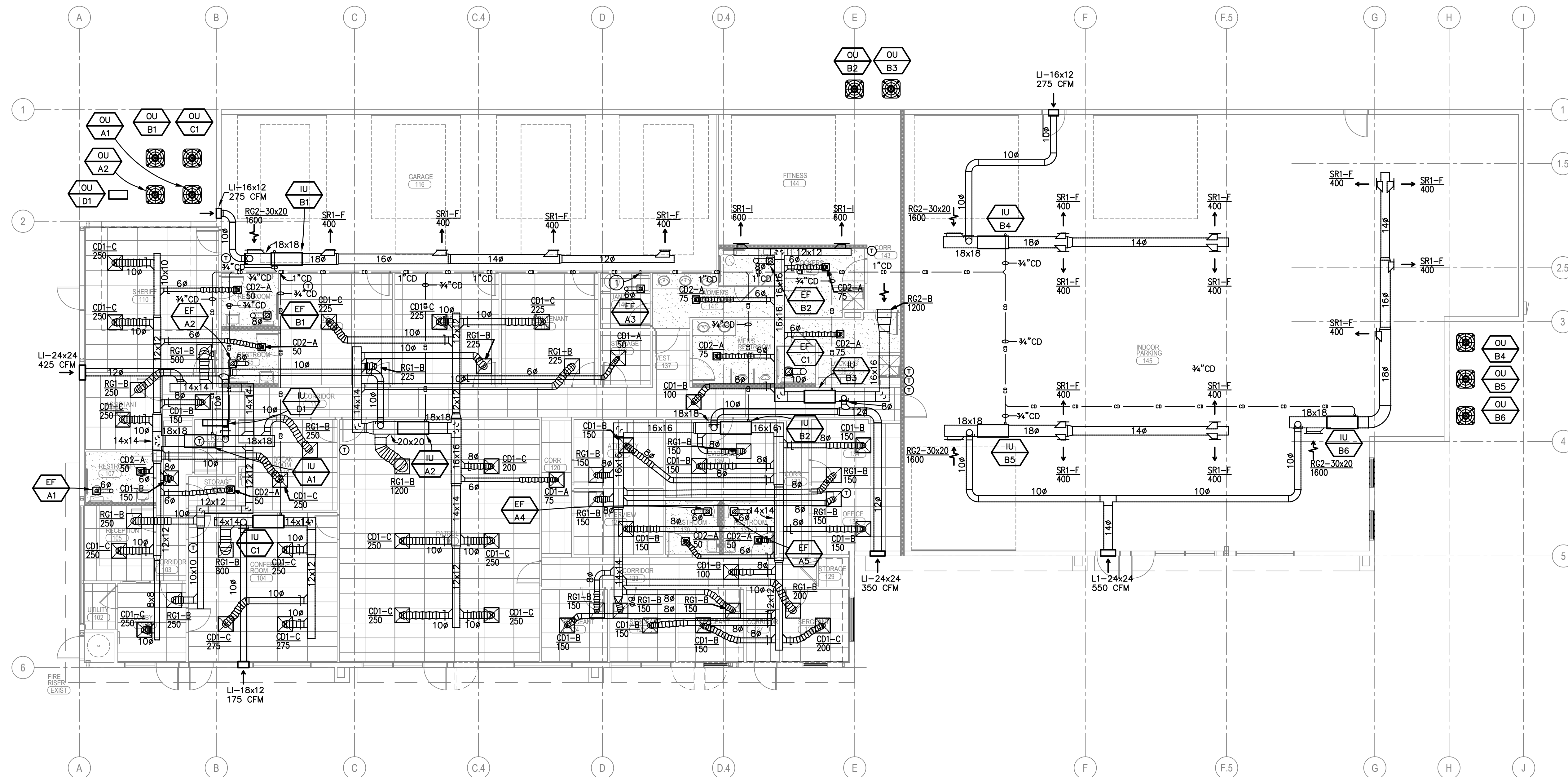
REVISION ISSUE DATE

SHEET TITLE:

SPECIFICATIONS

SHEET NO. G1.05





# MECHANICAL FLOOR PLAN

1

1/8"=1'-0" N

### FIELD VERIFICATION NOTES :

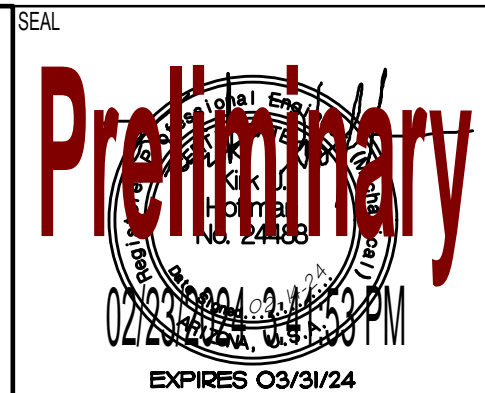
- THE HVAC CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS BID. THE FOLLOWING ITEMS SHALL BE VERIFIED.
  - EXACT PLACEMENT SIZE CAPACITY MANUFACTURER AND CONDITION OF ALL EXISTING HVAC EQUIPMENT WITHIN SCOPE OF WORK, WHETHER SPECIFICALLY SHOWN OR NOT.
  - SIZE AND LOCATION OF ALL EXISTING DUCTWORK.
  - SIZE AND LOCATION OF ALL EXISTING GRILLES REGISTERS AND DIFFUSERS
  - LOCATION OF ALL EXISTING THERMOSTATIC CONTROLS
- ALL REFERENCES ON THESE DRAWINGS TO EXISTING EQUIPMENT DUCTWORK, DIFFUSERS, THERMOSTATS AND PIPING ARE FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL THESE ITEMS PRIOR TO BID AND INCLUDE IN HIS BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
- NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
- ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION

### GENERAL NOTES :

- MOUNT THERMOSTATS 48" ABOVE FINISH FLOOR TO CENTER.
- DUCTWORK AND EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE AND ROUTE DUCTWORK TO MEET JOB REQUIREMENTS. LOCATION OF EQUIPMENT MUST BE COORDINATED WITH ALL DISCIPLINES BEFORE FINAL LOCATIONS ARE SELECTED. WEIGHTS OF EQUIPMENT MUST BE VERIFIED AND COORDINATED WITH STRUCTURAL SYSTEMS BEFORE EQUIPMENT CAN BE INSTALLED AT JOBSITE.
- SPACE ALLOCATED FOR MECHANICAL AND OTHER WORK ABOVE THE SUSPENDED CEILING IS CRITICAL. LIGHT FIXTURES AND AIR DIFFUSERS HAVE BEEN LOCATED TO ACHIEVE A DEFINITE ARCHITECTURAL EFFECT AND MAY NOT BE CHANGED WITHOUT THE CONSENT OF THE ARCHITECT. BECOME FAMILIAR WITH THE ARCHITECTURAL STRUCTURAL MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO FABRICATING AND INSTALLING ANY MATERIALS. HANG DUCTWORK AS CLOSE AS POSSIBLE TO THE STRUCTURE ABOVE, UNLESS INDICATED OTHERWISE.
- COORDINATE THE LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
- PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRES, AIRDUCTS, PNEUMATIC DUCTS, AND SIMILAR BUILDINGS SERVICE EQUIPMENT THROUGH FIRE BARRIERS SHALL BE PROTECTED AS FOLLOWS: THE SPACE BETWEEN THE PENETRATING ITEM AND FIRE BARRIER SHALL BE FILLED WITH A MATERIAL CAPABLE OF MAINTAINING THE FIRE RESISTANCE RATING OF THE FIRE BARRIER PRODUCT. PRODUCT USED MUST MEET TEST METHODS ASTM E814 OR NFPA 251 FOR FIRE RATING.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DUCT & PIPING LOCATIONS IN FIELD AND INCLUDE IN BID EXTENDING TO EXISTING AS REQUIRED.
- CONTRACTOR SHALL BALANCE ALL SYSTEMS TO CFM'S SHOWN. PROVIDE 3RD PARTY INSPECTION & PROVIDE COPY OF REPORT TO THE CITY OF LAKE HAVASU INSPECTOR AT FINAL MECHANICAL INSPECTION
- EXISTING CONDENSATE DRAINS SUPPLY & RETURN AIR DUCT DROPS ARE EXISTING AND SHALL BE REUSED WHEN-EVER POSSIBLE.
- PLANS SHALL CONFORM TO THE 2018 IMC AND ALL CITY OF LAKE HAVASU ADOPTED CODES AND AMENDMENTS.
- MECHANICAL DESIGN IS INTENDED SO THAT THE AIR CONDITIONING SYSTEM WILL OPERATE CONTINUOUSLY DURING OCCUPIED HOURS TO MAINTAIN CURRENT VENTILATION REQUIREMENTS.
- ALL DIFFUSERS AND GRILLES ARE LESS THAN 20LBS, CONTRACTOR SHALL POSITIVELY ATTACH TO CEILING MAIN RUNNERS
- VENTS SHALL BE TERMINATED A MINIMUM OF 1'-0" ABOVE ROOF AND 2'-0" ABOVE OR 8'-0" AWAY FROM PARAPETS OR WALLS.
- SEE ARCHITECTURAL PLANS FOR LOCATION OF PERMANENT ACCESS TO ROOF.
- ALL NEW UNITS SHALL BE LOCATED AND INSTALLED BELOW THE PARAPET OR A SCREEN WALL PROVIDED,(SEE ARCHITECTURE DRAWINGS FOR SCREENING DETAILS).
- THERMOSTATS ARE LOW VOLTAGE PROGRAMMABLE THERMOSTATS AND ARE TO BE LOCATED AS SHOWN.
- REFER TO ARCHITECTURAL LOCATION OF DRAWINGS FOR EXACT REGISTERS, GRILLES & DIFFUSERS.
- CALL FOR INSPECTION OF ALL MECHANICAL SYSTEM PRIOR TO COVER AND CONCEALMENT.

### KEYED NOTES :

- 1/4"CD TO TERMINATE WITH AIR GAP AT MOP SINK.



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PROJECT NAME:  
**MOHAVE COUNTY SHERIFF'S OFFICE T.I.**  
**LAKE HAVASU CITY, ARIZONA**  
 6634 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD:  
  
**SELBERG ASSOCIATES INC.**  
 ARCHITECTURE & PLANNING  
 2180 MISSOURI AVE. SUITE 204  
 LAKE HAVASU CITY, ARIZONA 86403  
 (908) 855-8924

PROJECT NO.	23089
ISSUED FOR:	PERMIT SET
ISSUED DATE:	DECEMBER 12, 2024
REVISION	ISSUE DATE
SHEET TITLE:	MECHANICAL FLOOR PLAN
SHEET NO.	M1.01

**MAVEN ENGINEERING** Job #24RL027  
 Tel: (480) 303-0180  
 Fax: (480) 302-7927  
 8011 S Avenida del Yagui  
 Guadalupe, Arizona 86285  
 Note: Any changes made to final bid documents due to field changes will be billed hourly to the contractor.

### GRILLES, REGISTERS AND DIFFUSER SIZING SCHEDULE

INSTALL DIFFUSERS PER SCHEDULE BELOW. DO NOT EXCEED MAXIMUM CFM INDICATED. BASIS DESIGN TDC OR TDC-A, MAX 25 NC -BORDER 1: LAYIN CEILING -BORDER 6: HARD CEILING

PROVIDE DAMPER AT GRILLE

	NECK SIZE	RD NECK SIZE	MAX CFM
A	9 X 9	6" DIA	85
B	12 X 12	8" DIA	180
C	12 X 12	10" DIA	300
D	15 X 15	12" DIA	500
E	18 X 18	16" DIA	750
F	21 X 21	21 X 21	1500

INSTALL RETURN GRILLES PER SCHEDULE BELOW. DO NOT EXCEED MAXIMUM CFM INDICATED. BASIS DESIGN: TITUS 350RS. MAX. 25 NC. PROVIDE PLENUM FOR DUCT CONNECTION IF REQUIRED

	24 x 12 MODULE NECK SIZE	MAX CFM
A	12 x 22	1100
	24 x 24 MODULE NECK SIZE	MAX CFM
B	22 x 22	1800

INSTALL DIFFUSERS PER SCHEDULE BELOW. DO NOT EXCEED MAXIMUM CFM INDICATED. BASIS DESIGN 300R OR 300RS, MAX 25 NC

	NECK SIZE	RD NECK SIZE	MAX CFM
A	6 X 6	-	75
B	12 X 6	-	160
C	12 X 8	-	225
D	12 X 10	-	285
E	18 X 8	-	350
F	18 X 10	-	440
G	18 X 12	-	540
H	24 X 10	-	590
I	24 X 12	-	725
J	30 X 12	-	915

NOTE: USE SIZES OF FLEXIBLE DUCT SHOWN BELOW. SELECT DUCT SIZE FROM SCHEDULED CFM ON FLOOR PLANS. DO NOT EXCEED CFM LIMITS BELOW. PROVIDE 1:5 SLOPE TRANSITION BETWEEN DUCT AND OPENING.

DUCT SIZE	MAX CFM
6	85
8	180
10	300
12	500
14	700
16	1000
18	1400
20	1800
22	2300
24	3000

CFM NOMINAL SIZE

NOTE: FLEX DUCTWORK SHALL BE A MAXIMUM OF 8'-0" LONG AND MATCH THE NECK SIZE OF THE DIFFUSER OR GRILLE OR AS INDICATED ON THE DRAWINGS.

### MECHANICAL EQUIPMENT SCHEDULE

NOTE: 1. AMBIENT TEMPERATURE 115 F COOLING, 31 F HEATING.  
2. NO EQUIPMENT WITH LESS THAN 98% OF LISTED CAPACITIES WILL BE APPROVED. COOLING CAPACITY INCLUDES FAN HEAT.  
3. FILTERS SHALL HAVE A MAXIMUM VELOCITY OF 500 FPM, 1" DEEP, 30% ATMOSPHERIC EFFICIENT.  
4. UNIT SHALL HAVE LOW AMBIENT COMPRESSOR LOCKOUT THERMOSTAT.  
5. SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.  
6. PROVIDE ONE ELECTRICAL CONNECTION FOR EACH UNIT.  
7. VERIFY ON PLAN FOR HORIZONTAL OR VERTICAL INSTALLATION.

MARK	MANUFACTURER	MODEL	SEER /EER	CFM	ESP "WG"	HP	VOLT	PH	MCA	COOLING				HEATING			OSA CFM	WEIGHT LBS	NOTES
										SEN MBH	TOT MBH	ENT AIR DB	WB	COMP MBH	KW/STAGES	VOLT			
IU-A1-2	CARRIER	FX4DNF061	-	2000	0.4	3/4	208	1	7.5	-	-	-	-	-	-	-	SEE CALC.	215	-
OU-A1-2	CARRIER	25HPB660	15.4	-	-	-	208	3	22.8	43.2	51.6	80	67	45.7	-	-	-	375	-
IU-B1-6	CARRIER	FX4DNF049	-	1600	0.5	3/4	208	1	7.5	-	-	-	-	-	-	-	SEE CALC.	200	-
OU-B1-6	CARRIER	25HPB648	15.0	-	-	-	208	3	18.3	33.7	42.0	80	67	32.1	-	-	-	300	-
IU-C1	CARRIER	FX4DNF025	-	800	0.5	1/3	208	1	3.5	-	-	-	-	-	-	-	SEE CALC.	125	-
OU-C1	CARRIER	25HPB624	15.0	-	-	-	208	1	15.5	18.2	18.9	80	67	16.4	-	-	-	250	-
IU-D1	DAIKIN	PKA-A12HA7	-	425	-	-	-	-	-	-	-	-	-	-	-	-	-	40	-
OU-D1	DAIKIN	PUZ-A12NK47	21.0	-	-	-	208	1	11.0	9.0	10.1	80	67	14.0	-	-	-	100	-
EF-A1-5	GREENHECK	SP-A110	-	100	0.125	-	120	1	-	-	-	-	-	-	-	-	-	40	SW W/ LIGHT
EF-B1-2	GREENHECK	SP-A200	-	200	0.29	-	120	1	-	-	-	-	-	-	-	-	-	24	SW W/ LIGHT
EF-C1	GREENHECK	CSP-A410	-	250	0.38	-	120	1	-	-	-	-	-	-	-	-	-	36	SW W/ LIGHT

LEGEND: EXHAUST FAN (EF), SPLIT SYSTEM: INDOOR UNIT (IU), OUTDOOR UNIT (OU), HEATPUMP (HP), AIR HANDLING UNIT (AHU), AIR CONDITIONER (AC), EVAPORATIVE COOLER (EC), MAKE-UP AIR UNIT (MUA)

### GRILLES, REGISTERS AND DIFFUSER SCHEDULE

NOTE: 1. PROVIDE OBD'S SHALL BE PROVIDED AT TAKE-OFF OF MAIN DUCT FOR ALL LAY-IN TYPE DIFFUSERS OR GRILLES AND OBD'S AT THE DIFFUSER OR GRILLE WHEN FLANGE TYPE.  
2. SEE SIZING SCHEDULES FOR NECK AND FLEX DUCT SIZES, UNLESS OTHERWISE DIRECTED.  
3. ALL LAY-IN DIFFUSERS OR GRILLES SHALL BE WHITE IN COLOR UNLESS DIRECTED OTHERWISE. ALL FLANGE TYPE DIFFUSERS, REGISTERS OR GRILLE COLORS SHALL BE AS DIRECTED BY THE ARCHITECT.  
4. CONTRACTOR SHALL PROVIDE SQUARE TO ROUND ADAPTERS AS REQUIRED FOR INSTALLATION.  
5. CONTRACTOR SHALL PROVIDE T-BAR BORDER IN ALL LAY-IN CEILINGS AND FLANGE TYPE BORDERS FOR ALL OTHER APPLICATIONS UNLESS OTHERWISE INDICATED.

MARK	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL	BORDER	FRONT BLADES	DAMPER	REMARKS
CD1-2	CEILING DIFFUSER	TITUS	TDC	STEEL	NOTE 5	HORIZONTAL	OBD	-
SR1	SUPPLY REGISTER	TITUS	300R	STEEL	NOTE 5	HORIZONTAL	OBD	-
RG1-2	RETURN/EXH. REGISTER	TITUS	350RS	STEEL	NOTE 5	HORIZONTAL	-	-

### AIR BALANCE SCHEDULE

OSA CFM	UNIT NO.	EXH CFM	UNIT NO.
200	IU-A1	100	EF-A1
225	IU-A2	100	EF-A2
275	IU-B1	100	EF-A3
200	IU-B2	100	EF-A4
150	IU-B3	100	EF-A5
275	IU-B4	200	EF-B1
275	IU-B5	200	EF-B2
275	IU-B6	250	EF-C1
175	IU-C1	-	-
-	-	-	-
-	-	-	-
2,050	TOTAL	1,150	-

### CONDENSATE DRAINS

TONNAGE	MIN. PIPE SIZE
0 - 10 TONS	3/4"
OVER 10 TONS	1"
OVER 35 TONS	1-1/4"
OVER 55 TONS	1-1/2"
OVER 120 TONS	2"

SLOPE ALL CONDENSATE DRAIN PIPING AT MINIMUM 1/8" PER FOOT.

ALL CONDENSATE DRAIN PIPING SHALL BE TYPE "M" COPPER.

### DUCTWORK SYMBOLS

SINGLE	DOUBLE	ABBR.	DESCRIPTION
		•	RECTANGULAR DUCT
		•	ROUND DUCT
		•	45 DEG. TAP: USE AT BRANCH DUCTS ONLY
		•	DUCT SPLIT W/DAMPER: USE AT ELBOWS AND TEES: PROPORTION DUCT AREAS BY CFM'S
		•	CURVED ELBOW-MIN. RADIUS R: 1.5 WIDTH
		•	90 DEG. ELBOW WITH SINGLE RADIUS TURNING VANES
		•	FLEXIBLE DUCT CONNECTION
		FD	FIRE DAMPER
		BD	BALANCING DAMPER (USE O.B.D. UNLESS NOTED OTHERWISE)
		•	SPIN-IN FLEX DUCT TAKE-OFF W/DAMPER
		SA	SUPPLY AIR
		EXH	EXHAUST AIR
		RA	RETURN AIR
		REL	RELIEF AIR
		OSA	OUTSIDE AIR
		T	THERMOSTAT X: UNIT OR ZONE NUMBER
		T	THERMOSTAT W/SHERWOOD GUARD
			POINT OF CONNECTION
			SMOKE DUCT DETECTOR



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PROJECT NAME: MOHAVE COUNTY SHERIFF'S OFFICE T.I. LAKE HAVASU CITY, ARIZONA 6534 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD: SELBERG ASSOCIATES INC. ARCHITECTURE & PLANNING 2180 MIRSQUITE AVE. SUITE 204 LAKE HAVASU CITY, ARIZONA 86403 (928) 938-8844

PROJECT NO. 23089

ISSUED FOR: PERMIT SET

ISSUED DATE: DECEMBER 12, 2024

REVISION ISSUE DATE

SHEET TITLE: MECHANICAL SCHEDULES

SHEET NO. M2.01

**MAVEN ENGINEERING** Job #24RLL027  
Tel: (480) 303-0180 Fax: (480) 302-7927  
8011 S Avenida del Yagui  
Guadalupe, Arizona 85285  
Note: Any changes made to final bid documents due to field changes will be billed hourly to the contractor.

Zone RECEPTION Ventilation			
System Primary Airflow: $V_{ps}$	2,100 CFM	Zone Air Distribution Effectiveness: $E_z$	0.8
Average Outdoor Air Fraction: $X_s$	0.0827	Primary Air Fraction to Zone: $E_p$	1
Occupant Diversity: $D$	1	Secondary Air Fraction to Zone: $E_s$	1
Uncorrected Air Intake: $V_{ou}$	174 CFM	Fraction of Supply Air to Zone from Outside Zone: $F_a$	1
System Ventilation Efficiency: $E_v$	0.959	Fraction of Supply Air to Zone from Fully Mixed Primary Air: $F_b$	1
Outdoor Air Intake: $V_{ot}$	181 CFM 0.0862	Fraction of Outdoor Air to Zone from Outside Zone: $F_c$	1

Room Information												
Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow (CFM) $V_{bc}$	Zone Outdoor Airflow (CFM) $V_{oc}$	Zone Discharge Airflow (CFM) $V_{dc}$	Discharge Outdoor Air Fraction $Z_d$	Zone Ventilation Efficiency $E_{vt}$
		Rate (CFM/person) $R_p$	People $P_z$	Total (CFM) $R_p \cdot P_z$	Rate (CFM/ft <sup>2</sup> ) $R_a$	Area (ft <sup>2</sup> ) $A_z$	Total (CFM) $R_a \cdot A_z$					
101-LOBBY	Office-Main Entry Lobbies	5	1	5	0.06	97.8	6	11	14	250	0.056	1.03
102-UTILITY	General-Storage	0	0	0	0.15	25.7	4	4	5	0	0	Outdoor Airflow > Supply Airflow
103-CORRIDOR	General-Corridors	0	0	0	0.06	90.5	6	6	8	150	0.0533	1.03
105-RECEPTION	Office-Reception Areas	5	3	15	0.06	94.1	6	21	26	250	0.104	0.982
106-STORAGE	General-Storage	0	0	0	0.15	28.5	5	5	6	50	0.12	0.966
107-RR	General-Restrooms	0	0	0	0.619	0	0	0	0	50	0	1.09
108-I.T.	General-Storage	0	0	0	0.15	40.3	7	7	9	0	0	Outdoor Airflow > Supply Airflow
109-ASSISTANT	Office-Office Space	5	1	5	0.06	100	6	11	14	250	0.056	1.03
110-SHERIFF	Office-Office Space	5	2	10	0.06	349	21	31	39	500	0.078	1.01
111-RR	General-Restrooms	0	0	0	0.549	0	0	0	0	50	0	1.09
112-BREAK ROOM	Office-Office Space	5	1	5	0.06	162	10	15	19	250	0.076	1.01
113-CORRIDOR	General-Corridors	0	0	0	0.06	412	25	25	31	250	0.124	0.959
115-RR	General-Restrooms	0	0	0	0.549	0	0	0	0	50	0	1.09
117-VESTIBULE	General-Corridors	0	0	0	0.06	37.9	3	3	4	0	0	Outdoor Airflow > Supply Airflow

Zone OFFICE EAST Ventilation			
System Primary Airflow: $V_{ps}$	1,680 CFM	Zone Air Distribution Effectiveness: $E_z$	0.8
Average Outdoor Air Fraction: $X_s$	0.105	Primary Air Fraction to Zone: $E_p$	1
Occupant Diversity: $D$	1	Secondary Air Fraction to Zone: $E_s$	1
Uncorrected Air Intake: $V_{ou}$	176 CFM	Fraction of Supply Air to Zone from Outside Zone: $F_a$	1
System Ventilation Efficiency: $E_v$	0.905	Fraction of Supply Air to Zone from Fully Mixed Primary Air: $F_b$	1
Outdoor Air Intake: $V_{ot}$	195 CFM 0.116	Fraction of Outdoor Air to Zone from Outside Zone: $F_c$	1

Room Information												
Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow (CFM) $V_{bc}$	Zone Outdoor Airflow (CFM) $V_{oc}$	Zone Discharge Airflow (CFM) $V_{dc}$	Discharge Outdoor Air Fraction $Z_d$	Zone Ventilation Efficiency $E_{vt}$
		Rate (CFM/person) $R_p$	People $P_z$	Total (CFM) $R_p \cdot P_z$	Rate (CFM/ft <sup>2</sup> ) $R_a$	Area (ft <sup>2</sup> ) $A_z$	Total (CFM) $R_a \cdot A_z$					
120-CORRIDOR	General-Corridors	0	0	0	0.06	75.3	5	5	6	75	0.08	1.04
121-ATTORNEY	Office-Office Space	5	1	5	0.06	107	7	12	15	150	0.1	1.02
122-INTERVIEW	Office-Office Space	5	1	5	0.06	107	7	12	15	150	0.1	1.02
123-CORRIDOR	General-Corridors	0	0	0	0.06	148	9	9	11	100	0.11	1.01
124-SERGEANT	Office-Office Space	5	1	5	0.06	86.1	6	11	14	150	0.0933	1.02
125-SERGEANT	Office-Office Space	5	1	5	0.06	86.8	6	11	14	150	0.0933	1.02
126-SERGEANT	Office-Office Space	5	1	5	0.06	85.4	6	11	14	150	0.0933	1.02
127-CORRIDOR	General-Corridors	0	0	0	0.06	45	3	3	4	0	0	Outdoor Airflow > Supply Airflow
128-SERGEANT	Office-Office Space	5	1	5	0.06	87.5	6	11	14	200	0.07	1.05
129-STORAGE	General-Storage	0	0	0	0.15	16	3	3	4	0	0	Outdoor Airflow > Supply Airflow
130-RR	General-Restrooms	0	0	0	0.529	0	0	0	0	50	0	1.12
131-RR	General-Restrooms	0	0	0	0.529	0	0	0	0	50	0	1.12
132-CORRIDOR	General-Corridors	0	0	0	0.06	75.3	5	5	6	0	0	Outdoor Airflow > Supply Airflow
133-OFFICE	Office-Office Space	5	1	5	0.06	103	7	12	15	150	0.1	1.02
134-OFFICE	Office-Office Space	5	1	5	0.06	105	7	12	15	150	0.1	1.02
135-EVIDENCE	General-Storage	0	0	0	0.15	157	24	24	30	150	0.2	0.905

Zone OFFICE PATROL Ventilation			
System Primary Airflow: $V_{ps}$	1,930 CFM	Zone Air Distribution Effectiveness: $E_z$	0.8
Average Outdoor Air Fraction: $X_s$	0.103	Primary Air Fraction to Zone: $E_p$	1
Occupant Diversity: $D$	1	Secondary Air Fraction to Zone: $E_s$	1
Uncorrected Air Intake: $V_{ou}$	198 CFM	Fraction of Supply Air to Zone from Outside Zone: $F_a$	1
System Ventilation Efficiency: $E_v$	0.903	Fraction of Supply Air to Zone from Fully Mixed Primary Air: $F_b$	1
Outdoor Air Intake: $V_{ot}$	219 CFM 0.114	Fraction of Outdoor Air to Zone from Outside Zone: $F_c$	1

Room Information												
Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow (CFM) $V_{bc}$	Zone Outdoor Airflow (CFM) $V_{oc}$	Zone Discharge Airflow (CFM) $V_{dc}$	Discharge Outdoor Air Fraction $Z_d$	Zone Ventilation Efficiency $E_{vt}$
		Rate (CFM/person) $R_p$	People $P_z$	Total (CFM) $R_p \cdot P_z$	Rate (CFM/ft <sup>2</sup> ) $R_a$	Area (ft <sup>2</sup> ) $A_z$	Total (CFM) $R_a \cdot A_z$					
114-U.S.	Office-Office Space	5	2	10	0.06	225	14	24	30	225	0.133	0.98
117-CHEIF	Office-Office Space	5	2	10	0.06	210	13	23	29	225	0.129	0.985
118-PATROL	Office-Office Space	5	5	25	0.06	876	53	78	98	1,200	0.0817	1.03
119-LIEUTENANT	Office-Office Space	5	1	5	0.06	195	12	17	21	225	0.0933	1.02
136-STORAGE	General-Storage	0	0	0	0.15	48.3	8	8	10	50	0.2	0.903
140-JATOR	General-Storage	0	0	0	0.15	49.4	8	8	10	0	0	Outdoor Airflow > Supply Airflow

Zone CONFERENCE Ventilation			
System Primary Airflow: $V_{ps}$	800 CFM	Zone Air Distribution Effectiveness: $E_z$	0.8
Average Outdoor Air Fraction: $X_s$	0.203	Primary Air Fraction to Zone: $E_p$	1
Occupant Diversity: $D$	1	Secondary Air Fraction to Zone: $E_s$	1
Uncorrected Air Intake: $V_{ou}$	163 CFM	Fraction of Supply Air to Zone from Outside Zone: $F_a$	1
System Ventilation Efficiency: $E_v$	1	Fraction of Supply Air to Zone from Fully Mixed Primary Air: $F_b$	1
Outdoor Air Intake: $V_{ot}$	162 CFM 0.203	Fraction of Outdoor Air to Zone from Outside Zone: $F_c$	1

Room Information												
Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow (CFM) $V_{bc}$	Zone Outdoor Airflow (CFM) $V_{oc}$	Zone Discharge Airflow (CFM) $V_{dc}$	Discharge Outdoor Air Fraction $Z_d$	Zone Ventilation Efficiency $E_{vt}$
		Rate (CFM/person) $R_p$	People $P_z$	Total (CFM) $R_p \cdot P_z$	Rate (CFM/ft <sup>2</sup> ) $R_a$	Area (ft <sup>2</sup> ) $A_z$	Total (CFM) $R_a \cdot A_z$					
104-CONFERENCE	General-Conference	5	21	105	0.06	403	25	130	163	800	0.204	1

Zone FITNESS Ventilation			
System Primary Airflow: $V_{ps}$	1,500 CFM	Zone Air Distribution Effectiveness: $E_z$	0.8
Average Outdoor Air Fraction: $X_s$	0.0908	Primary Air Fraction to Zone: $E_p$	1
Occupant Diversity: $D$	1	Secondary Air Fraction to Zone: $E_s$	1
Uncorrected Air Intake: $V_{ou}$	136 CFM	Fraction of Supply Air to Zone from Outside Zone: $F_a$	1
System Ventilation Efficiency: $E_v$	0.986	Fraction of Supply Air to Zone from Fully Mixed Primary Air: $F_b$	1
Outdoor Air Intake: $V_{ot}$	138 CFM 0.092	Fraction of Outdoor Air to Zone from Outside Zone: $F_c$	1

Room Information												
Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow (CFM) $V_{bc}$	Zone Outdoor Airflow (CFM) $V_{oc}$	Zone Discharge Airflow (CFM) $V_{dc}$	Discharge Outdoor Air Fraction $Z_d$	Zone Ventilation Efficiency $E_{vt}$
		Rate (CFM/person) $R_p$	People $P_z$	Total (CFM) $R_p \cdot P_z$	Rate (CFM/ft <sup>2</sup> ) $R_a$	Area (ft <sup>2</sup> ) $A_z$	Total (CFM) $R_a \cdot A_z$					
138-139-MEN RR/LOCKERS	General-Restrooms	0	0	0	0	245	0	0	0	150	0	1.09
141-142-WOMEN RR/LOCKERS	General-Restrooms	0	0	0	0	239	0	0	0	150	0	1.09
143-CORRIDOR	General-Corridors	0	0	0	0.06	118	8	8	10	0	0	Outdoor Airflow > Supply Airflow
144-FITNESS	Sports-Health Club/Weight Room	20	4	80	0.06	349	21	101	126	1,200	0.105	0.986

Zone GARAGE Ventilation			
System Primary Airflow: $V_{ps}$	1,600 CFM	Zone Air Distribution Effectiveness: $E_z$	0.8
Average Outdoor Air Fraction: $X_s$	0.164	Primary Air Fraction to Zone: $E_p$	1
Occupant Diversity: $D$	1	Secondary Air Fraction to Zone: $E_s$	1
Uncorrected Air Intake: $V_{ou}$	263 CFM	Fraction of Supply Air to Zone from Outside Zone: $F_a$	1
System Ventilation Efficiency: $E_v$	1	Fraction of Supply Air to Zone from Fully Mixed Primary Air: $F_b$	1
Outdoor Air Intake: $V_{ot}$	262 CFM 0.164	Fraction of Outdoor Air to Zone from Outside Zone: $F_c$	1

Room Information												
Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow (CFM) $V_{bc}$	Zone Outdoor Airflow (CFM) $V_{oc}$	Zone Discharge Airflow (CFM) $V_{dc}$	Discharge Outdoor Air Fraction $Z_d$	Zone Ventilation Efficiency $E_{vt}$
		Rate (CFM/person) $R_p$	People $P_z$	Total (CFM) $R_p \cdot P_z$	Rate (CFM/ft <sup>2</sup> ) $R_a$	Area (ft <sup>2</sup> ) $A_z$	Total (CFM) $R_a \cdot A_z$					
116-GARAGE	General-Storage	0	0	0	0.15	1,400	210	210	263	1,600	0.164	1

Zone INDOOR PARKING Ventilation			
System Primary Airflow: $V_{ps}$	4,800 CFM	Zone Air Distribution Effectiveness: $E_z$	0.8
Average Outdoor Air Fraction: $X_s$	0.171	Primary Air Fraction to Zone: $E_p$	1
Occupant Diversity: $D$	1	Secondary Air Fraction to Zone: $E_s$	1
Uncorrected Air Intake: $V_{ou}$	821 CFM	Fraction of Supply Air to Zone from Outside Zone: $F_a$	1
System Ventilation Efficiency: $E_v$	1	Fraction of Supply Air to Zone from Fully Mixed Primary Air: $F_b$	1
Outdoor Air Intake: $V_{ot}$	821 CFM 0.171	Fraction of Outdoor Air to Zone from Outside Zone: $F_c$	1

Room Information												
Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow (CFM) $V_{bc}$	Zone Outdoor Airflow (CFM) $V_{oc}$	Zone Discharge Airflow (CFM) $V_{dc}$	Discharge Outdoor Air Fraction $Z_d$	Zone Ventilation Efficiency $E_{vt}$
		Rate (CFM/person) $R_p$	People $P_z$	Total (CFM) $R_p \cdot P_z$	Rate (CFM/ft <sup>2</sup> ) $R_a$	Area (ft <sup>2</sup> ) $A_z$	Total (CFM) $R_a \cdot A_z$					
145-INDOOR PARKING	General-Storage	0	0	0	0.15	4,380	657	657	821	4,800	0.171	1



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PROJECT NAME:  
**MOHAVE COUNTY SHERIFF'S OFFICE T.I.**  
**LAKE HAVASU CITY, ARIZONA**  
 6634 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD:  
  
**SELBERG ASSOCIATES INC.**  
 ARCHITECTURE & PLANNING  
 2480 HERSHFIELD AVE. SUITE 204  
 LAKE HAVASU CITY, ARIZONA 86403  
 (928) 855-8844

PROJECT NO. 23089  
 ISSUED FOR: PERMIT SET  
 ISSUED DATE: DECEMBER 12, 2024  
 REVISION ISSUE DATE  
 SHEET TITLE: MECHANICAL OSA CALCULATIONS  
 SHEET NO. M2.02

**MAVEN ENGINEERING** Job #24RL027  
 Tel: (480) 303-0180  
 Fax: (480) 302-7927  
 8011 S Avenida del Yagui  
 Guadalupe, Arizona 86285  
 Note: Any changes made to final bid documents due to field changes will be billed hourly to the contractor.

**AIR CONDITIONING SPECIFICATIONS**

**1. GENERAL REQUIREMENTS AND SCOPE OF WORK:**

THE WORK INCLUDED UNDER THIS SECTION CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT AND LABOR, AND THE PERFORMING OF ALL FUNCTIONS, EXCEPT AS OTHERWISE SPECIFIED HEREIN OR SHOWN ON THE DRAWINGS TO BE PERFORMED BY OTHERS, FOR THE INSTALLATION OF COMPLETE AND WORKING AIR CONDITIONING, HEATING AND VENTILATING SYSTEMS WHICH COMPLIES WITH ALL CODES. CHECK FIELD CONDITIONS AND MAKE MEASUREMENTS BEFORE ORDERING MATERIALS.

MAINTENANCE MANUAL SHALL INCLUDE ALL AVAILABLE MANUFACTURERS' OPERATION AND MAINTENANCE INSTRUCTIONS TOGETHER WITH THE RECORD DRAWINGS TO PROPERLY OPERATE AND MAINTAIN THE EQUIPMENT. THE MANUAL SHALL ALSO INCLUDE THE NAME, ADDRESS, AND PHONE NUMBER OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED IN ANY OF THE WORK SPECIFIED HEREIN.

THE CONTRACTOR MUST, AT HIS OWN EXPENSE, OBTAIN ALL NECESSARY PERMITS, PAY ALL LEGAL FEES AND CHARGES AND COMPLY WITH ALL STATE AND MUNICIPAL BUILDING AND SAFETY LAWS, ORDINANCES AND REGULATIONS RELATING TO BUILDING AND PUBLIC HEALTH & SAFETY. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE GOVERNING CODES.

PROVIDE MECHANICAL EQUIPMENT HAVING MOTORS WITH MOTOR PROTECTORS AND INTEGRAL STARTERS. WIRING AND PROPER OPERATION OF THE MECHANICAL EQUIPMENT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. ALL WIRING SHALL BE ROUTED IN CONDUIT OR IN PLENUM RATED WIRING.

THE SYSTEM SHALL HAVE A WARRANTY COVERING LABOR, MATERIALS AND EQUIPMENT FOR A PERIOD OF ONE YEAR AFTER COMPLETION AND ACCEPTANCE. REPLACE OR REPAIR ALL DEFECTIVE WORKMANSHIP, EQUIPMENT, AND MATERIALS AT NO ADDITIONAL COST TO THE OWNER.

THE MECHANICAL CONTRACTOR SHALL COORDINATE EXACT DIFFUSER AND GRILLE LOCATIONS WITH ELECTRICAL CONTRACTOR AND ALL OTHER TRADES AND ALSO COORDINATE SPACE AVAILABILITY FOR DUCTWORK ABOVE RECESSED LIGHTING TO AVOID RELOCATING DUCTWORK AT THE MECHANICAL CONTRACTORS EXPENSE. ALL AIR DISTRIBUTION DEVICES IN LAY-IN CEILING SHALL BE INDEPENDENTLY SUPPORTED TO THE STRUCTURE WITH A MINIMUM OF (2) SUPPORT RODS OR WIRES IN COMPLIANCE WITH SECTION 2.3.1.3 OF THE NFPA 90A & BUILDING CODE IF REQUIRED BY THE LOCAL CODE AUTHORITY.

SHOULD A CHANGE ORDER TO THE CONTRACT DOCUMENTS BE NECESSARY, THE CONTRACTOR SHALL SUBMIT A FORMAL CHANGE ORDER TO THE ARCHITECT/ENGINEER FOR REVIEW BEFORE ANY WORK COMMENCES. ANY WORK DONE WITHOUT PRIOR WRITTEN APPROVAL IS SUBJECT TO COMPLETION AT THE CONTRACTOR'S EXPENSE. CHANGE ORDERS SHALL INCLUDE A DETAILED MATERIAL, EQUIPMENT, AND LABOR TAKE-OFF IDENTIFYING ALL NEW AND CREDITED ITEMS. COSTS FOR SUCH ITEMS SHALL NOT EXCEED THE VALUES LISTED IN THE LATEST EDITION OF THE MEANS ESTIMATING GUIDE.

SPECIAL INSPECTIONS OR OBSERVATIONS SUCH AS DUCT SMOKE DETECTORS AND GREASE DUCT WRAP MAY REQUIRED THE PROFESSIONAL ENGINEER OF RECORD TO SEAL CERTIFICATE COMPLIANCE OR OBSERVE INSTALLATION ARE SUBJECT TO ADDITIONAL CHARGES MINIMUM OF \$300.00 DEPENDING ON SIZE OF PROJECT.

PERFORM COMPLETE TESTING AND BALANCING OF ALL MECHANICAL SYSTEMS IN ACCORDANCE WITH AABC OR NEBB LATEST STANDARDS WITH REPORT. MECHANICAL CONTRACTOR TO PROVIDE BALANCE REPORT TO MECHANICAL INSPECTOR AT FINAL INSPECTION.

**2. CONDENSATE DRAIN PIPING:**

USE TYPE "M" HARD DRAWN COPPER FOR ALL CONDENSATE DRAIN LINES WITH MINIMUM FALL 1/8" PER FOOT FROM UNITS TO APPROVED PLUMBING CONNECTION. PROVIDE TRAPS AT UNIT AND INSTALL OVERFLOW DRAINS AS REQUIRED BY MECHANICAL CODE. TEST CONDENSATE PIPING TO HIGHEST POINT IN SYSTEM AND HOLD FOR FOUR HOURS.

**3. DUCTWORK:**

INSTALL ALL DUCTWORK IN ACCORDANCE WITH SMACNA GUIDELINES AND LOCAL STANDARDS FOR A MINIMUM OF 1" STATIC PRESSURE. RADIUS ELBOWS SHALL HAVE A MINIMUM RADIUS OF 1.5 TIMES THE DUCT DIMENSION IN THE DIRECTION OF TURN, AND SQUARE ELBOWS SHALL HAVE SINGLE THICKNESS TURNING VANES. ALL JOINTS SHALL BE TAPED WITH GLASS CLOTH AND HARDCAST OR ADHESIVE (UL LISTED). ALL DUCT SIZES ARE TO THE INSIDE OF LINING, INCREASE OUTSIDE DIMENSIONS AS NECESSARY. COVERINGS, LININGS, ADHESIVES AND INSULATION SHALL HAVE A SPREAD INDEX OF NOT OVER 25 AND A SMOKE-DEVELOPED INDEX OF NOT OVER 50. ALL INSULATION SHALL COMPLY WITH THE INTERNATIONAL ENERGY CONSERVATION CODE.

ALL INSULATION ADHESIVES & INSTALLATION SHALL COMPLY WITH NFPA\_E 84.

CONCEALED DUCTS INSIDE OF BUILDING: SHALL BE SHEET METAL WRAPPED WITH 1" THERMAL INSULATION (MINIMUM OF R-5), WITH VAPOR BARRIER COVER.

EXPOSED SQUARE DUCTS INSIDE BUILDING AND DUCTS WITHIN 10 FEET OF A MECHANICAL UNIT SHALL BE SHEET METAL LINED WITH 1" ACOUSTICAL INSULATION. EXPOSED ROUND DUCTS DO NOT REQUIRE INSULATION.

FLEX DUCT: FLEX DUCT SHALL BE CLASS 0 OR 1 AND TESTED PER UL 181.

DUCTS OUTSIDE BUILDING OR IN UNCONDITIONED CEILING OR ATTIC SHALL BE SHEET METAL LINED WITH 2" ACOUSTICAL INSULATION (MINIMUM OF R-8).

**4. GRILLES AND REGISTERS**

GRILLES AND REGISTERS SHALL BE OF THE TYPE AND FINISH AS INDICATED ON THE DRAWINGS, COMPLETE WITH OPPOSED BLADE DAMPERS EXTRACTORS AND STRAIGHTENING GRIDS AS REQUIRED.

**5. AIR CONDITIONING UNITS (SPLIT SYSTEM HEAT PUMP)**

DESCRIPTION: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY TO FURNISH AND INSTALL INDOOR BLOWER COIL SECTION, OUTDOOR SECTION WITH COMPRESSOR, CRANKCASE HEATER, COIL AND CONTROLS, FAN AND REFRIGERANT PIPING, OSA INTAKE, AND INSULATION INCLUDING PIPING VALVES, HANGERS, SUPPORTS, CONNECTIONS, ETC FOR A COMPLETE AND OPERATIONAL SYSTEM. ITEMS NOT LISTED BUT REQUIRED DUE TO LOCAL CODES OR OPERATIONAL REQUIREMENTS SHALL BE INCLUDED UNDER BASE BID. UNIT SHALL COME OPERATIONAL DOWN TO 20%± AMBIENT. 1" DISPOSABLE TYPE WITH HINGED FILTER ACCESS AT REAR OF UNIT.

CONTROLS AND POWER WIRING: THE CONTROLS SHALL INCLUDE A 7-DAY PROGRAMMABLE LOW VOLTAGE ROOM THERMOSTAT EQUAL TO HONEYWELL TH8000 SERIES WITH A FAN "ON\_AUTO" SWITCH AND A SYSTEM "HEAT\_OFF\_COOL" SWITCH. EACH UNIT SHALL BE COMPLETELY FACTORY WIRED FOR TERMINAL CONNECTIONS OF THERMOSTAT AND POWER WIRING.

REFRIGERANT ACCESSORIES REQUIRED: REFRIGERANT SYSTEMS OF LESS THAN 60 MBH SCHEDULED TOTAL CAPACITY PER COMPRESSOR (SEE DRAWINGS) SHALL BE PROVIDED WITH THE FOLLOWING ACCESSORIES, TO BE FIELD-PIPED IF NOT INCLUDED BY THE MANUFACTURER IN THE UNIT: FILTER DRYER, EXPANSION DEVICE, SITE GLASS (PLACE IMMEDIATELY UPSTREAM OF EXPANSION DEVICE), CHARGING VALVE, AND REFRIGERANT SHUT-OFF VALVE IN SUCTION AND LIQUID LINE AT OR NEAR CONDENSING UNIT.

REFRIGERANT PIPING: HARD DRAWN COPPER TUBING, TYPE "L" ESPECIALLY DESIGNATED AS AIR CONDITIONING REFRIGERANT PIPING OR PRECHARGED REFRIGERANT PIPING DESIGNED FOR SPLIT SYSTEM INSTALLATION.

DRYER SIZE SHALL BE FULL LIQUID LINE SIZE AS INDICATED ON DRAWINGS. SIGHT GLASS SHALL BE MOISTURE INDICATING TYPE. SOLENOID VALVE SHALL BE FULL LIQUID LINE SIZE WITH MANUAL OPENING STEM AND VALVE SHALL BE COMPLETELY MOISTURE PROOF. MANUAL REFRIGERANT SHUT-OFF VALVES SHALL BE REFRIGERATION SERVICE WITH BACK SEATING CONSTRUCTION AND CAP SEALS. FLEXIBLE CONNECTIONS SHALL BE PROVIDED IN EACH LIQUID LINE, HOT GAS LINE, AND EACH SUCTION LINE AT EACH PIECE OF EQUIPMENT. CONNECTIONS SHALL BE FOR REFRIGERANT SERVICE WITH BRONZE SEAMLESS CORRUGATED HOSE AND BRONZE BRADING.

REFRIGERANT PIPING CALCULATION SUBMITTAL: IN ADDITION TO THE SUBMITTAL REQUIREMENTS THE MANUFACTURER'S REPRESENTATIVE FOR EQUIPMENT PROVIDED IN THIS SPECIFICATION SHALL INCLUDE WITH ITS SUBMITTAL, TABLES AND/OR DRAWINGS OF REFRIGERANT PIPING AND ACCESSORIES, INCLUDING RECOMMENDED SIZES OF PIPES, VALVES, FITTINGS, ETC.

REFRIGERANT PIPING: TO BE INSTALLED BY AND UNITS STARTED UP BY A REFRIGERANT CONTRACTOR LICENSED BY THE STATE.

PIPE INSULATION: INSULATE ALL REFRIGERANT GAS PIPING WITH 1/2" THICK FLEXIBLE FOAMED PLASTIC CLOSED CELL PIPE INSULATION. "K" FACTOR OF NOT MORE THAN 26 @ 70%±, ASTM C177-63 AND ASTM C355-64 WATER METHOD. SEAL JOINTS AND BUTT ENDS WITH FIRE RETARDANT, WATERPROOF ADHESIVE EQUAL TO ARMSTRONG 520. FINISH ALL PIPE INSULATION EXPOSED TO WEATHER WITH TWO COATS OF ARMAFLEX FINISH (OR APPROVED EQUAL). SEAL AROUND PIPE IN SLEEVES WITH SILICONE SEALANT FOR NON-FIRE RATED WALLS. SEAL AROUND PIPE IN SLEEVES PASSING THROUGH FIRE RATED WALLS OR FLOORS WITH APPROVED FIRE RATED PACKING.

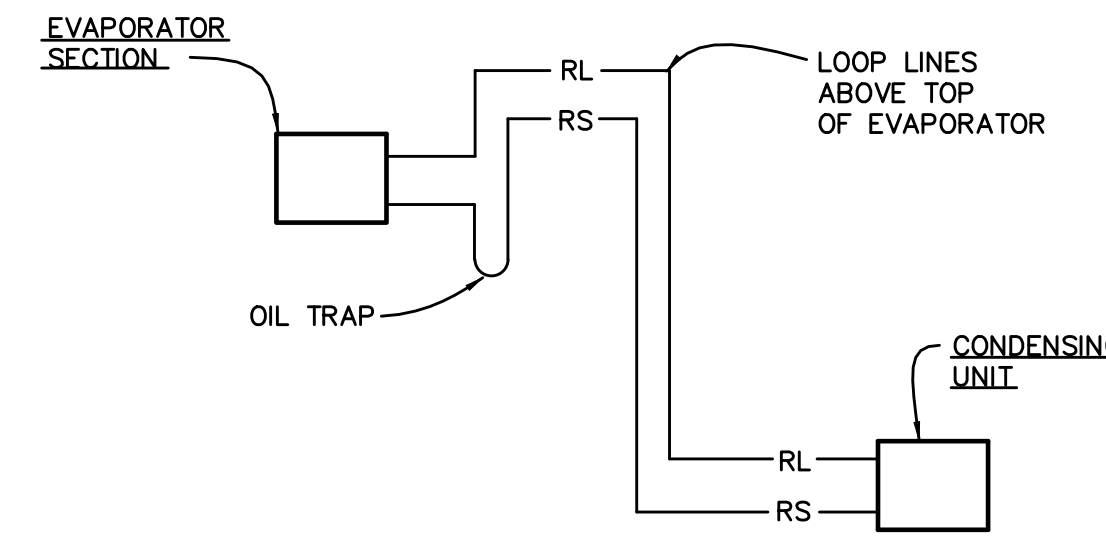
**6. START-UP FOR MECHANICAL EQUIPMENT**

ALL UNITS SHALL BE INSPECTED, CHECKED, AND STARTED UP BY MANUFACTURER'S FACTORY CERTIFIED HVAC TECHNICIAN. UPON COMPLETION, MANUFACTURER SHALL PROVIDE ONE YEAR PARTS AND LABOR WARRANTY.

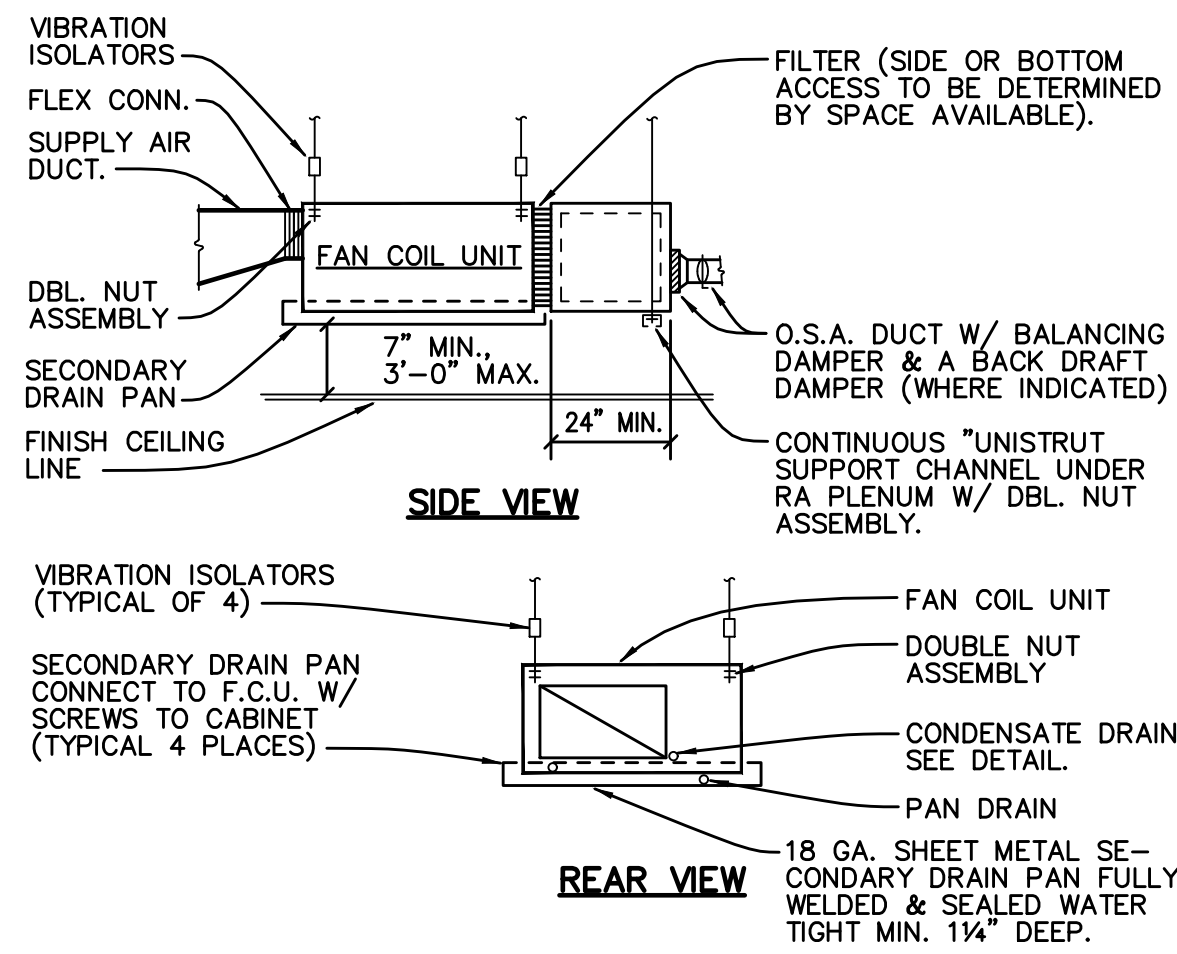
**7. EXHAUST FANS**

DESCRIPTION: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY TO FURNISH AND INSTALL EXHAUST FANS AND BLOWERS FOR A COMPLETE AND OPERATIONAL SYSTEM. ITEMS NOT LISTED BUT REQUIRED DUE TO LOCAL CODES OR OPERATIONAL REQUIREMENTS SHALL BE INCLUDED UNDER BASE BID.

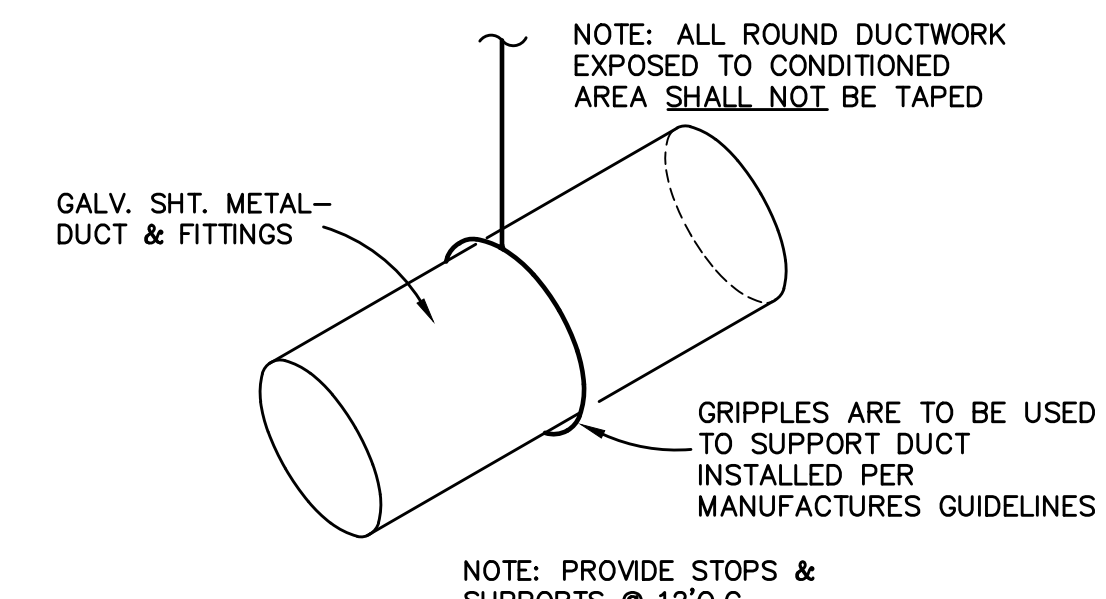
PROVIDE ROOF CAPS, WALL CAPS, FLASHINGS, BASES, SPEED SWITCHES, APPROVED VIBRATION ISOLATORS, INTEGRAL INLET GRILLES, INTEGRAL STARTERS AND DUCT CONNECTIONS AS INDICATED OR SPECIFIED. PROVIDE INTERNAL DISCONNECTING MEANS AND OVERLOAD PROTECTION ON ALL UNITS 1/2 HP AND SMALLER AND/OR 120 VOLT, SINGLE PHASE. TWO SPEED MOTOR SHALL BE TWO WINDING TYPE. ALL BELT DRIVEN EXHAUST FANS SHALL HAVE ADJUSTABLE MOTOR PULLEYS FOR FAN SPEED CONTROL. RATE BELTS FOR 150% OF MOTOR RATED HP. ALL FANS, EXCEPT TOILET EXHAUST FANS 200 CFM AND BELOW, SHALL BE AMCA CERTIFIED AND APPROVED.



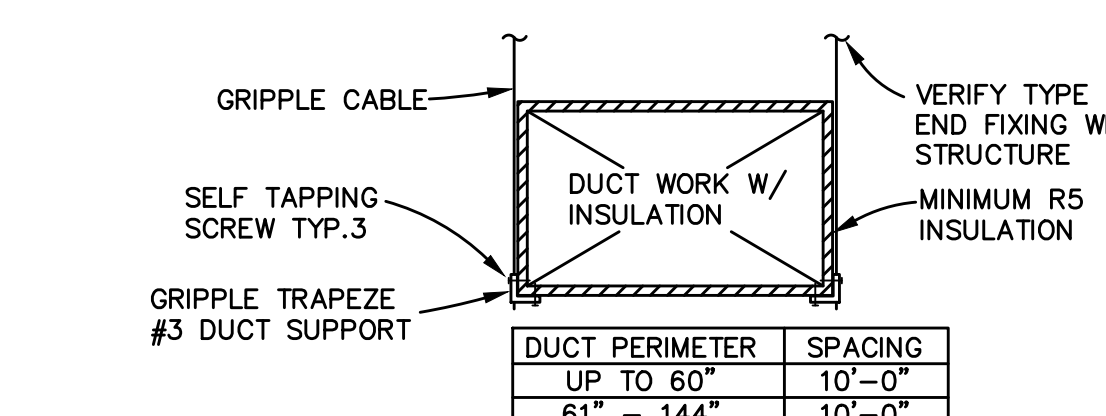
**4 SPLIT SYSTEM** N.T.S.



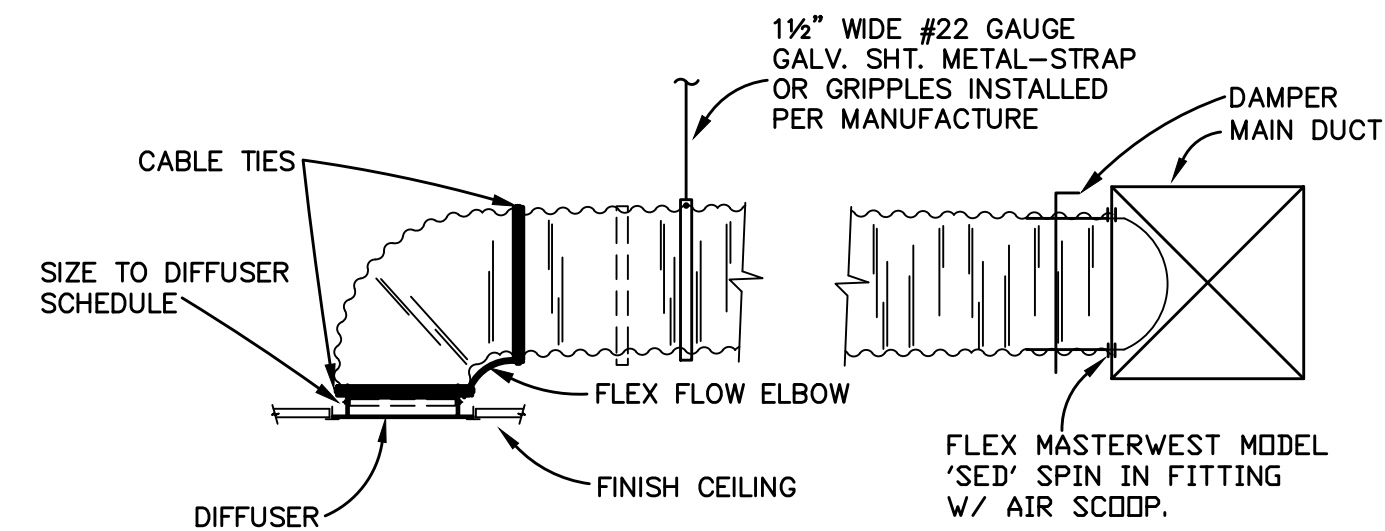
**5 UNIT MOUNTING** N.T.S.



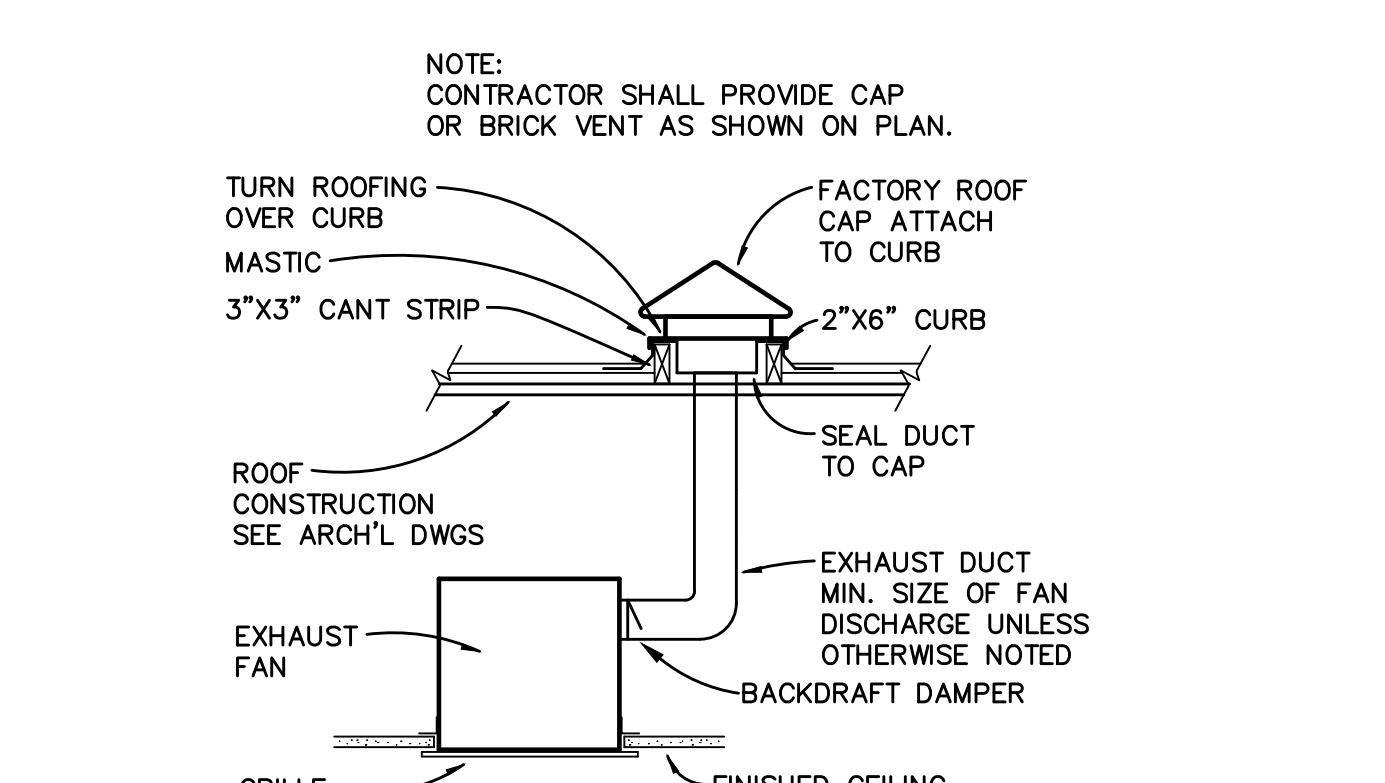
**6 ROUND DUCT SUPPORT** N.T.S.



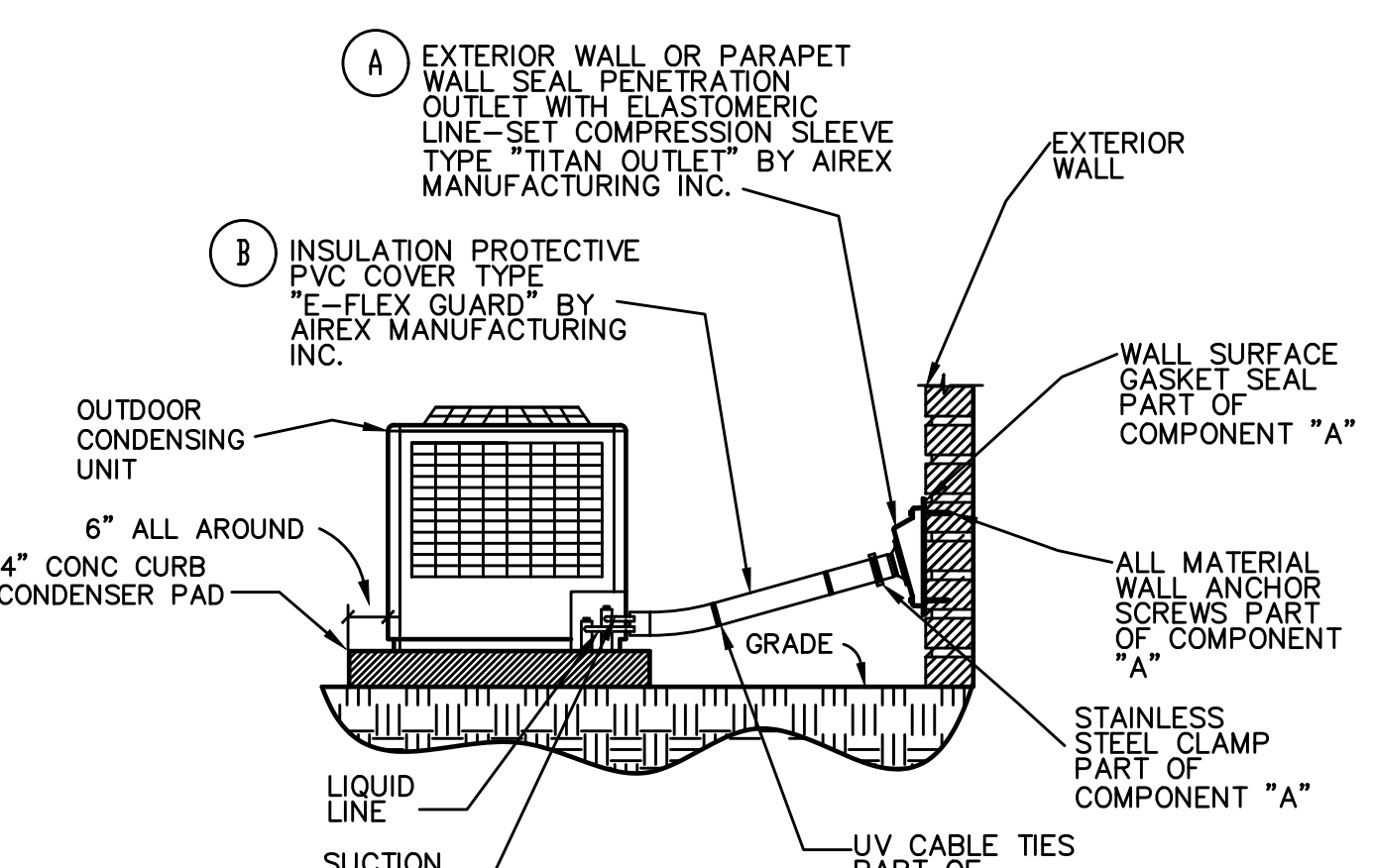
**7 RECTANGULAR DUCTWORK GRIPPLE SUPPORTS** N.T.S.



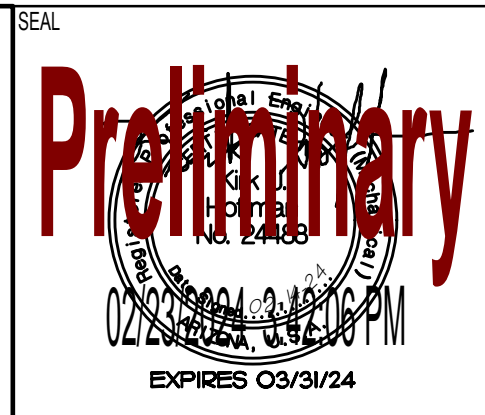
**1 DIFFUSER INSTALLATION (W/ FLEX DUCTWORK)** N.T.S.



**2 EXHAUST FAN - CEILING TYPE** N.T.S.



**3 CONDENSING UNIT/REFRIG PIPING** N.T.S.



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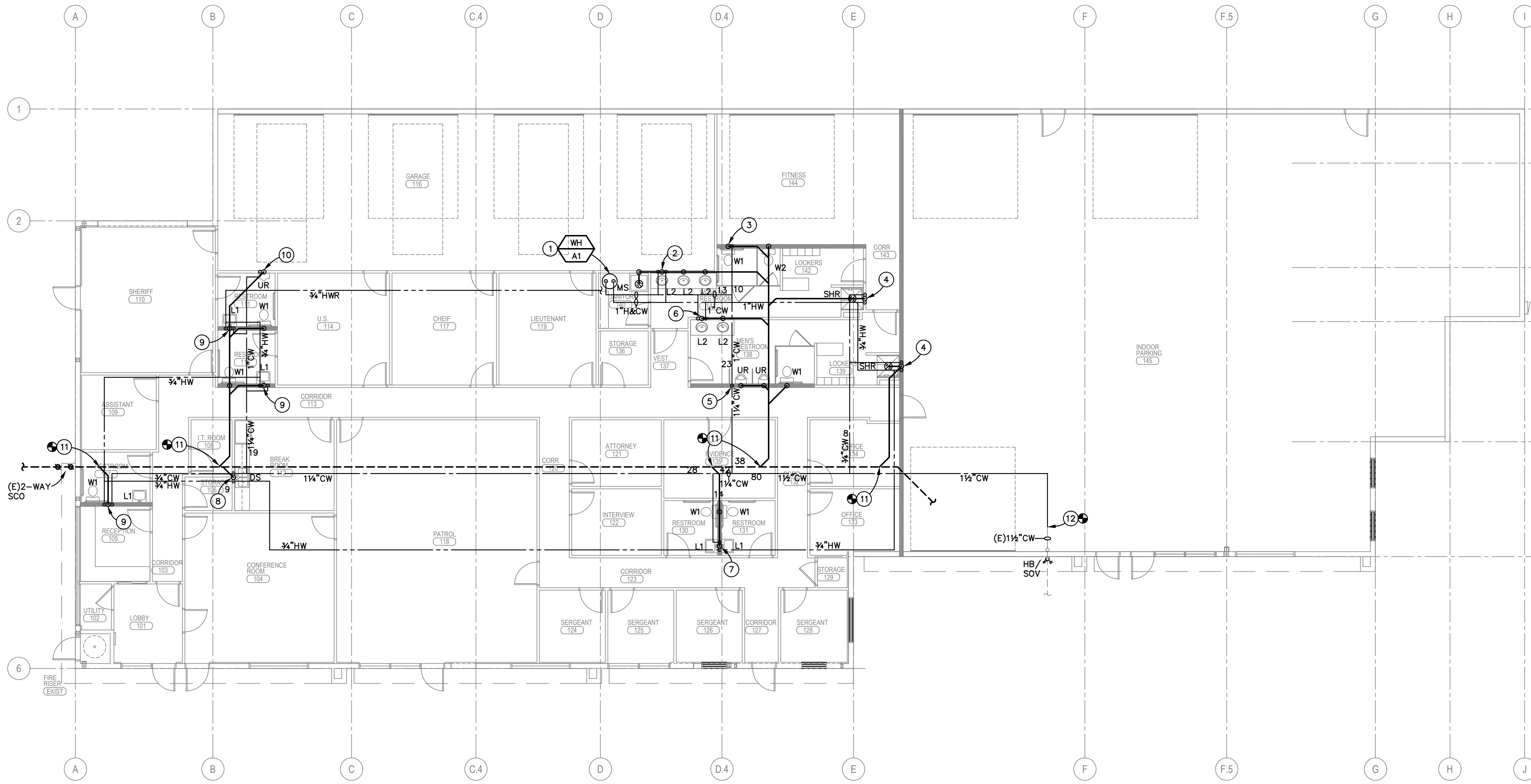
PROJECT NAME:  
**MOHAVE COUNTY SHERIFF'S OFFICE T.I.**  
**LAKE HAVASU CITY, ARIZONA**  
 6534 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD:  
  
**SELBERG ASSOCIATES INC.**  
 ARCHITECTURE & PLANNING  
 2480 HIRSHDINE AVE. SUITE 204  
 LAKE HAVASU CITY, ARIZONA 86403  
 (928) 855-8224

PROJECT NO.	23089
ISSUED FOR:	PERMIT SET
ISSUED DATE:	DECEMBER 12, 2024
REVISION	ISSUE DATE
SHEET TITLE:	MECHANICAL SPECIFICATIONS

**MAVEN ENGINEERING** Job #24RL027  
 Tel: (480) 303-0180  
 Fax: (480) 302-7927  
 8011 S Avenida del Yagu  
 Guadalupe, Arizona 85385  
 Note: Any changes made to final bid documents due to field changes will be billed hourly to the contractor.

SHEET NO.  
**M3.01**



# 1 PLUMBING FLOOR PLAN

1/8" = 1'-0"

### KEYED NOTES :

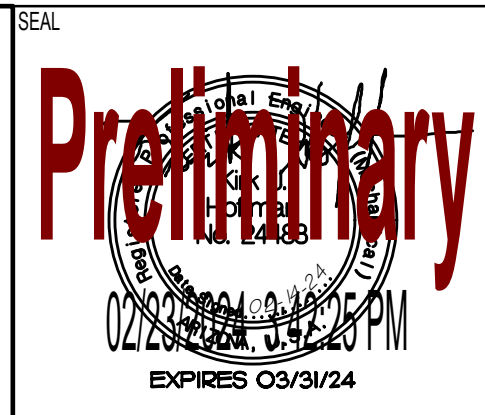
1. FULL SIZE T&P TO TERMINATE ABOVE MS W/ 1" AIR GAP.
2. 3/4" H&CW DOWN IN WALL. PROVIDE 1/2" H&CW TO EACH L2 AND 3/4" H&CW TO MS.
3. 1" CW DOWN IN WALL. PROVIDE 3/4" CW TO EACH WC.
4. 3/4" H&CW DOWN IN WALL TO SHR.
5. 1" CW DOWN IN WALL. PROVIDE 3/4" CW TO EACH WC AND UR.
6. 3/4" H&CW DOWN IN WALL, PROVIDE 1/2" H&CW TO EACH L2.
7. 1" CW AND 3/4" HW DOWN IN WALL. PROVIDE 3/4" CW TO EACH W1 AND 1/2" H&CW TO EACH L1.
8. 1/2" H&CW DOWN IN WALL TO FIXTURE. EXTEND 3/8" CW TO REFRIGERATOR SOV BOX WITH WATER HAMMER ARRESTOR.
9. 1/2" HW AND 3/4" CW DOWN IN WALL. PROVIDE 1/2" H&CW TO L1 AND 3/4" CW TO W1.
10. 3/4" CW DOWN IN WALL TO URINAL.
11. CONNECT NEW WASTE TO EXISTING 4" WASTE. VERIFY EXACT LOCATION AND INVERT IN FIELD PRIOR TO WORK.
12. CONNECT NEW 1 1/2" CW TO EXISTING 1 1/2" CW. VERIFY EXACT LOCATION IN FIELD PRIOR TO WORK.

### GENERAL NOTES :

1. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
2. BEFORE SUBMITTING BID, THE PLUMBING CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS AND INCLUDE IN HIS BID AN AMOUNT TO FURNISH AND INSTALL ANY FIXTURES WHICH ARE SHOWN IN ADDITION TO FIXTURES SHOWN ON THE PLUMBING DRAWINGS.
3. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED BEFORE MAKING UP OR INSTALLATION OF NEW WASTE SYSTEM.
4. CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.
5. THE INSTALLATION OF ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER INDICATING OR RECORDING EQUIPMENT, OR SPECIAL TIES REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENT, INSPECTION, REMOVAL OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED BUILDING.
6. ALL VENTS THROUGH ROOF SHALL BE 10'-0" REMOVED FROM ALL AIR INTAKES, EVAPORATIVE COOLERS, ETC.
7. WHERE POSSIBLE, TIE VENTS TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH THE ROOF.
8. WATER CLOSETS IN PUBLIC TOILET ROOMS SHALL CENTER ON THE FINAL LAYOUT OF TOILET PARTITIONS, EXCEPT AT ADA STALLS.
9. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.
10. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
11. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.
12. ASSUMED WATER PRESSURE—CONTRACTOR SHALL VERIFY ACTUAL WATER PRESSURE PRIOR TO CONSTRUCTION. IF PRESSURE IS LESS THAN 50 PSI CONTRACTOR SHALL CONTACT THE ENGINEER FOR PIPE SIZING EVALUATION. IF PRESSURE EXCEEDS 80 PSI, A PRESSURE REDUCING VALVE SHALL BE PROVIDED. PIPING VELOCITY SHALL NOT EXCEED 8 FEET PER SECOND.
13. PLANS AND WORK SHALL CONFORM TO 2018 IPC AND IFCC AS ADOPTED BY THE CITY OF LAKE HAVASU.

### FIELD VERIFICATION NOTES :

1. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS BID. THE FOLLOWING ITEMS SHALL BE VERIFIED.
  - 1.A. EXACT PLACEMENT SIZE CAPACITY MANUFACTURER AND CONDITION OF ALL EXISTING PLUMBING EQUIPMENT WITHIN SCOPE OF WORK, WHETHER SPECIFICALLY SHOWN OR NOT.
  - 1.B. SIZE AND LOCATION OF ALL EXISTING WASTE, GREASE WASTE, VENT AND WATER PIPING.
2. ALL REFERENCES ON THESE DRAWINGS TO EXISTING EQUIPMENT, WATER, WASTE, GREASE WASTE AND VENT PIPING ARE FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL THESE ITEMS PRIOR TO BID AND INCLUDE IN HIS BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
3. NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
4. ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION



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PROJECT NAME:  
**MOHAVE COUNTY SHERIFF'S OFFICE T.I.**  
**LAKE HAVASU CITY, ARIZONA**  
 6634 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

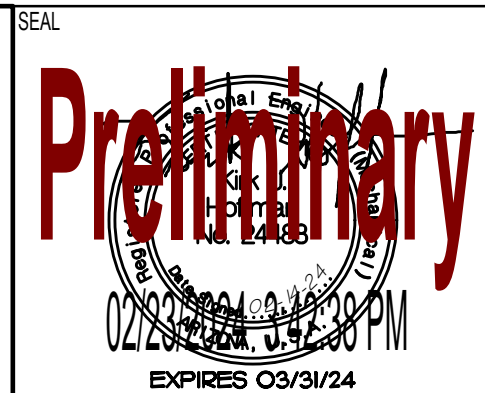
ARCHITECT OF RECORD

**SELBERG ASSOCIATES INC.**  
 ARCHITECTURE & PLANNING  
2180 MISSOURI AVE. SUITE 204  
 LAKE HAVASU CITY, ARIZONA 86403  
 (928) 855-8844

PROJECT NO.	23089
ISSUED FOR:	PERMIT SET
ISSUED DATE:	DECEMBER 12, 2024
REVISION	ISSUE DATE
SHEET TITLE:	PLUMBING FLOOR PLAN
	LEVEL 1
SHEET NO.	P1.01

**MAVEN ENGINEERING** Job #24RLL027  
 Tel: (480) 303-0180  
 Fax: (480) 302-7927  
 8011 S Avenida del Yagui  
 Guadalupe, Arizona 86285

Note: Any changes made to final bid documents due to field changes will be billed hourly to the contractor.



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PROJECT NAME  
**MOHAVE COUNTY SHERIFF'S OFFICE T.I.**  
**LAKE HAVASU CITY, ARIZONA**  
 6534 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD  
  
**SELBERG ASSOCIATES INC.**  
 ARCHITECTURE & PLANNING  
 2480 MHSQUITE AVE. SUITE 204  
 LAKE HAVASU CITY, ARIZONA 86403  
 (928) 855-8924

PROJECT NO. 23089

ISSUED FOR: PERMIT SET

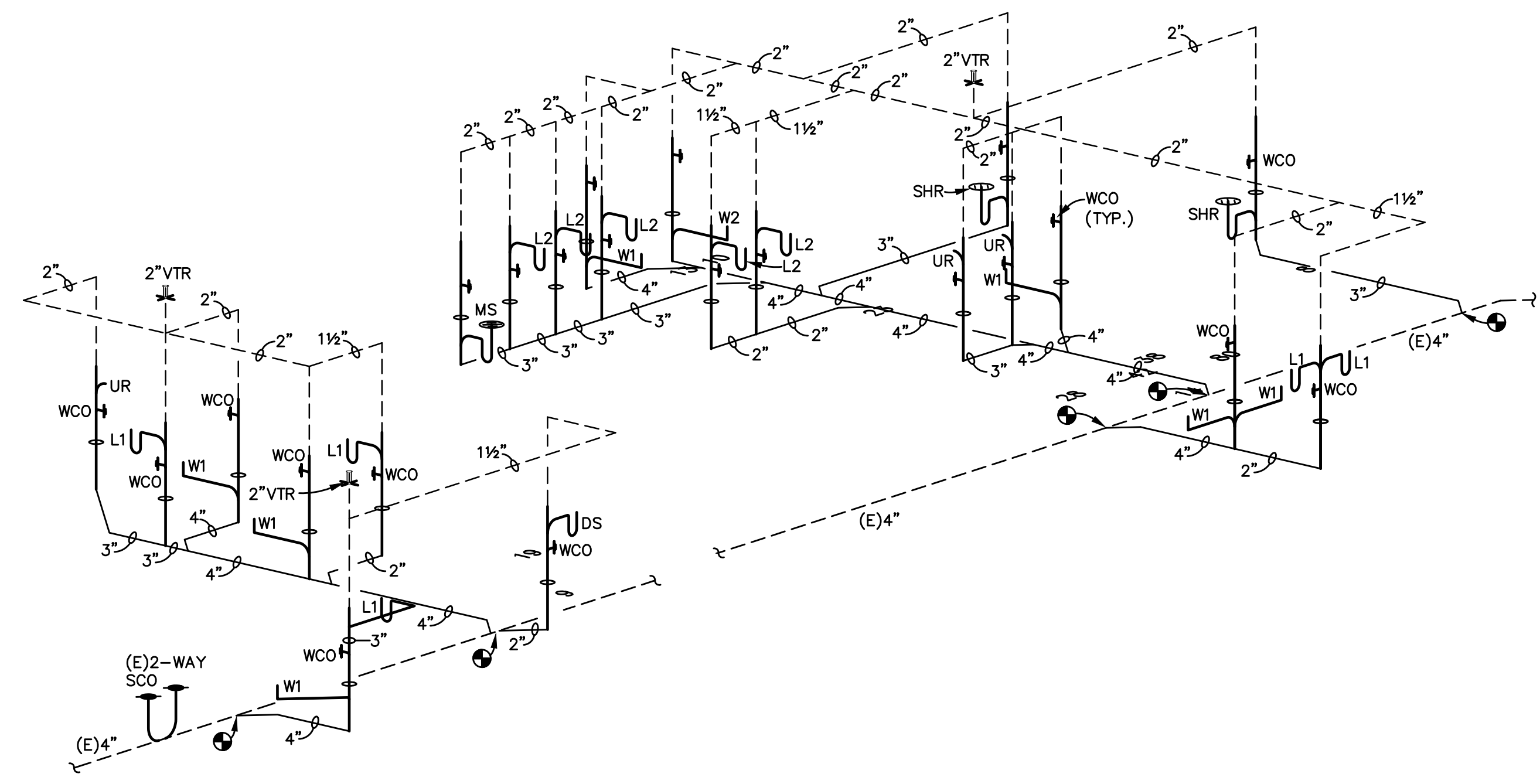
ISSUED DATE: DECEMBER 12, 2024

REVISION ISSUE DATE

SHEET TITLE:  
 WASTE & VENT SCHEMATIC

SHEET NO.

**P2.01**



# 1 WASTE & VENT SCHEMATIC

N.T.S.

WATER CALCULATION			
STATIC PRESS. :	65 PSI		
BLDG. HEIGHT :	10		
-----			
65.00 PSI PRESS. IN MAIN			
15.00 PSI PRESS. REQ'D AT FURTHEST FIXTURE			
-----			
50.00 PSI SUBTOTAL			
6.00 PSI PRESS. DROP THRU EXISTING 1" METER			
10.00 PSI DROP THRU RBPB			
-----			
34.00 PSI SUBTOTAL			
4.33 PSI DROP FOR ELEVATION			
-----			
29.67 PSI ALLOWABLE FOR PIPE FRICTION			
-----			
TOTAL LENGTH OF WTR SYSTEM =	250		
EQUIVALENT FEET OF PIPE ALLOWED FOR TEES, ELBOWS, FITTINGS, ETC. =	92.5		
TOT. DEVELOPED LENGTH OF WTR SYSTEM=	332.5		
*****			
* ALLOWABLE FRICTION LOSS =	8.9233 PSI/100'		
*****			
WATER FIXTURE COUNT			
1 DS	2 FU =	2 FU	
2 SHR	4 FU =	8 FU	
3 UR	5 FU =	15 FU	
10 LAV	2 FU =	20 FU	
1 MS	3 FU =	3 FU	
8 WC	5 FU =	40 FU	
-----			
TOTAL FU	88		
EXISTING FU	5		
-----			
TOTAL	93	42	GPM

### PIPING MATERIALS

SANITARY WASTE AND VENT SYSTEMS  
 PIPING:  
 ABS CONFORMING TO ASTM D 2661.

DOMESTIC WATER SYSTEM  
 PIPING:  
 ABOVE GRADE: TYPE "L" HARD DRAWN COPPER, CONFORMING TO ASTM B-88. OR PEX CONFORMING TO ASTM F 876. PEX PIPING 1.5" AND LARGER MUST BE RIGID TUBING.  
 BELOW SLAB: TYPE "K" SOFT DRAWN COPPER, CONFORMING TO ASTM B-88, WITH PLASTIC SLEEVE.

PIPING EXTERIOR BELOW GRADE ONLY:  
 PVC CONFORMING ASTM D 1785, WITH TRACER WIRE.

\* VERIFY EXACT FIXTURES WITH OWNER/ARCH. PRIOR TO ORDERING.

PLUMBING FIXTURE SCHEDULE								
FIXTURE SPECIFICATIONS					FIXTURE CONNECTIONS			
MARK	DESCRIPTION	MANUFACTURER AND MODEL NUMBER	FITTING & CAPACITY	ACCESSORIES/REMARKS	C.W.	H.W.	WASTE	VENT
W1*	HANDICAP WATER CLOSET FLUSH TANK	"AMERICAN STANDARD" CADET #215AA.104	FLUSH TANK 1.28 GPF	ELONGATED BOWL, SPLIT OPEN FRONT SEAT, 1/4 TURN ANGLE STOP & FLEX RISER	3/4"	-	4"	2"
UR	URINAL WALL MOUNTED WATERLESS	"SLOAN" #WES-1000	WATERLESS	VITREOUS CHINA	**	-	3"	2"
L1	HANDICAP LAVATORY WALL HUNG	"AMERICAN STANDARD" MODEL # 0355.012	"SYMMONS" #SLC-6000, 0.5GPM SELF-CLOSING	1/4 TURN ANGLE STOPS, TAILPIECE TRUEBRO #102 PIPE INSULATION "LEONARD" 170-LF MIXING VALVE	1/2"	1/2"	2"	1 1/2"
L2	OVAL COUNTER MOUNTED LAVATORY VITREOUS CHINA	"AMERICAN STANDARD" AQUALYN #0476.028	"SYMMONS" #SLC-6000, 0.5GPM SELF-METER FAUCET	PERFORATED GRID AND 1 1/4" TAILPIECE, P-TRAP, & RISER, "LEONARD" 170-LF MIXING VALVE	1/2"	1/2"	2"	1 1/2"
SHR	ADA TRANSFER SHOWER ONE PIECE ENCLOSURE	"AQUATIC" #13636BF5BTTR	W/ INTEGRAL FRONT TRENCH DRAIN	W/ GRAB BARS, FOLD-UP SEAT, HAND SHOWER, SLIDE BAR, & PRESSURE BALANCING VALVE	1/2"	1/2"	2"	1 1/2"
DS	DOUBLE SINK ADA 2-COMPARTMENT STAINLESS STEEL (18 GA.)	"ELKAY" LRADQ-3322-65 #LK-35 STRAINER	"ELKAY" FAUCET #LK-1000CR	1/4 TURN ANGLE STOPS W/ FLEXIBLE KEY & TUBE RISERS, TAILPIECE AND P-TRAP	1/2"	1/2"	2"	1 1/2"
MS	MOP SINK 24"x24"x10" DEEP FLOOR BASIN	"FIAT" #MSB-2424	SERVICE FAUCET #B30-AA	HOSE & BRACKET - MOP HANGER W/ VACUUM BREAKER	3/4"	3/4"	3"	2"
WH-A	ELECTRIC WATER HEATER	"A.O. SMITH" #DEN-50 50 GAL. CAPACITY	TWO 4500 W NONSIMULTANEOUS ELEMENTS	23 GPH @ 80F RISE 208V, 1φ	-	-	-	-

\* PROVIDE ALTERNATE TANK MODEL (R) WITH RIGHT HAND TRIP LEVER WHERE REQUIRED TO MEET ADA STANDARDS.  
 \*\* PROVIDE AND CAP 3/4" CW IN WALL FOR OPTIONAL URINAL FLUSH VALVE INSTALLATION.  
 NOTE: PROVIDE LEONARD #170-LF THERMOSTATIC MIXING VALVE (OR EQUAL, COMPLYING WITH ASSE 1070) WITH A SET POINT OF 110°F ON ALL LAVATORY/SINKS.

7.0 PSI DROP			
PIPE SIZE	GPM	FU (FT)	FU (FV)
1/2"	3	3	-
3/4"	7	9	-
1"	16	23	-
1 1/4"	28	50	11
1 1/2"	44	103	35
2"	77	259	135
2 1/2"	120	479	365
3"	170	748	739

7.0 PSI DROP PEX			
PIPE SIZE	GPM	FU (FT)	FU (FV)
1/2"	2.8	2.8	-
3/4"	6.1	7.8	-
1"	13.7	19.6	-
1 1/4"	18.0	32.1	7.1
1 1/2"	36.9	86.4	29.4
2"	64.1	215.7	112.4
2 1/2"	99.4	396.6	302.2
3"	140.3	617.4	610.0

\*PEX PIPING 1 1/2" AND LARGER SHALL BE RIGID TUBING

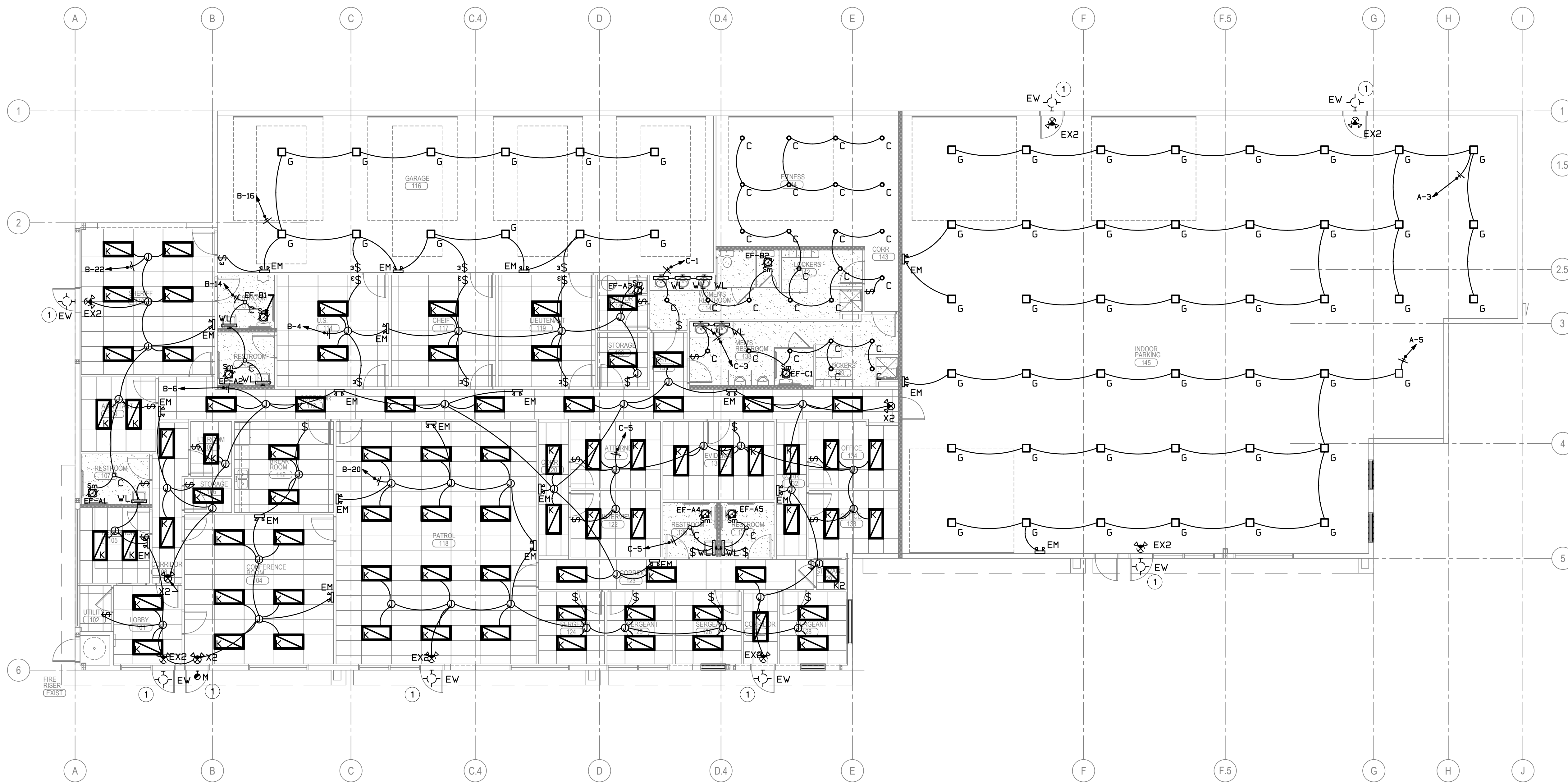
PLUMBING SYMBOL LIST			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
GW	GREASE WASTE (GW)	●	POINT OF CONNECTION
EXISTING (E)	EXISTING (E)	⊘	SHUT OFF VALVE (GATE)
W	SOIL WASTE LINE (W)	⊘	CHECK VALVE
V	VENT LINE (V)	⊘	UNION
C.W.	COLD WATER (C.W.)	⊘	LUBRICATED PLUG VALVE
H.W.	HOT WATER (H.W.)	⊘	HOSE BIBB (H.B.)
H.W.R.	HOT WATER RETURN	⊘	BRANCH RISE OFF MAIN
G	GAS LINE	⊘	SURFACE CLEANOUT
TW	TEMPERED WATER	⊘	FLOOR CLEANOUT
SW	SOFT WATER	⊘	GLOBE VALVE
B.S.	BUILDING SEWER	⊘	BALL VALVE
F.D.	FLOOR DRAIN (F.D.)	⊘	R.D.L. - ROOF DRAIN LEADER
F.S.	FLOOR SINK (F.S.)	⊘	O.D.L. - OVERFLOW DRAIN LEADER
R.D.	ROOF DRAIN (R.D.)	⊘	CD - CONDENSATE DRAIN LINE
OFD	OVER FLOW DRAIN	⊘	INDUSTRIAL COLD WATER

NOTE: ONLY THOSE SYMBOLS SHOWN ON THE DRAWING APPLY

**MAVEN ENGINEERING** Job #24RL1027  
 Tel: (480) 303-0180  
 Fax: (480) 302-7927  
 8011 S Avenida del Yagui  
 Guadalupe, Arizona 86385

Note: Any changes made to final bid documents due to field changes will be billed hourly to the contractor.





- LIGHTING GENERAL NOTES:**
- PRIOR TO ROUGH-IN, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL LIGHT FIXTURES. TO INCLUDE MOUNTING HEIGHTS AND LOCATIONS. ALL CONFLICTS SHALL BE REPORTED TO THE ENGINEER/ARCHITECT.
  - THE ELECTRICAL CONTRACTOR SHALL (PRIOR TO THEIR BID) a) VISIT THE SITE AND FIELD VERIFY ALL EXISTING CONDITIONS AND b) TAKE ALL CONSIDERATIONS INTO ACCOUNT AT THE TIME OF BID. NO CONSIDERATIONS WILL BE GRANTED THE CONTRACTOR AFTER THE BID IS ACCEPTED.
  - THE ELECTRICAL LIGHTING INSTALLATIONS SHALL CONFORM TO ALL STATE AND LOCAL SEISMIC AND CODE REQUIREMENTS REGARDING LIGHT FIXTURE SUPPORT.
  - ALL ELECTRICAL METALLIC TUBING (EMT), RIGID NON-METALLIC CONDUITS, "SEAL TIGHT" TYPE CONDUITS AND ALL OTHER CONDUITS THAT DO NOT CONTAIN A CODE SIZED GROUND WIRE SHALL HAVE A CODE SIZED BOND WIRE INSTALLED WITH THE CIRCUIT CONDUCTORS.
  - ALL FIXTURES INSTALLED OUTDOORS SHALL BE RATED FOR DAMP/WET LOCATIONS AS REQUIRED. THE CONTRACTOR SHALL COORDINATE DAMP/WET LOCATION RATING PER NEC ARTICLE 410.10(A). ALL INSTALLATIONS SHALL CONFORM TO NEC ARTICLE 410, ALL SUB ARTICLES
  - EMERGENCY EGRESS ILLUMINATION SHALL BE POWERED BY THE BUILDING'S EMERGENCY POWER SYSTEM FOR NOT LESS THAN 90-MINUTES IN THE EVENT OF LOSS OF THE PRIMARY POWER SUPPLY PER IBC 1008.3

**1 LIGHTING FLOOR PLAN**  
 1/8"=1'-0"

LUMINAIRE SCHEDULE								
CALLOUT	SYMBOL	LAMP	MODEL	DESCRIPTION	BALLAST	MOUNTING	INPUT WATTS	VOLTS
C	○	12W LED	ELITE LIGHTING HH6-LED-1200L-DIM10-120-40K HH6-6501-CL-WH	6' LED DOWNLIGHT, 4000K, 1200 LUMENS	STANDARD	RECESSED	12	120V 1P 2W
EM	⏏	(2) 2.4W INCLUDED	EXITRONIX LED-95-WH-62	CONTEMPORARY THERMOPLASTIC EMERGENCY LIGHT WITH EMERGENCY BATTERY BACK UP 90 MINUTE MINIMUM.	STANDARD	WALL	4.8	120V 1P 2W
G	□	(1) 45W LED-PCB	ELITE LIGHTING OVR-301-4000L-MVOLT-40K-BZ	LED CANOPY SERIES LIGHTING	DIMMING	SURFACE	45	120V 1P 2W
K	▭	(1) 42W LED	ELITE LIGHTING 24-FPL1-LED-4000L-DIM10-MVOLT-40K-85	2X4, 4000 LUMENS, 4000K.	STANDARD	RECESSED	42	120V 1P 2W
K2	▭	(1) 42W LED	ELITE LIGHTING 22-FPL1-LED-4000L-DIM10-MVOLT-40K-85	2X2, 4000 LUMENS, 4000K.	STANDARD	RECESSED	42	120V 1P 2W
M	●	LED	SIGNTEX INC MUE-BB-10-A-W-SD SB120	ARCHITECTURAL EMERGENCY EGRESS LIGHTING. PROVIDE EMERGENCY BATTERY BACK-UP. MOUNTED TO MULLION.	STANDARD	WALL	10	120V 1P 2W
WL	▭	(1) LED	ELITE LIGHTING 2-DW18-LED-2000L-DIM10-MVOLT 40K-85	COMMERCIAL WALLMOUNTED 2'LED. 2000 LUMENS.	STANDARD	WALL	18	120V 1P 2W
X2	⏏	(1) INCLUDED	EXITRONIX NY900C-SM-AG	LED EXIT SIGN/EMERGENCY UNIT COMBO.	STANDARD	CEILING	1	120V 1P 2W

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 02/23/2024 3:43:13 PM  
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PROJECT NAME:  
**MOHAVE COUNTY SHERIFF'S OFFICE T.I.**  
**LAKE HAVASU CITY, ARIZONA**  
 6534 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

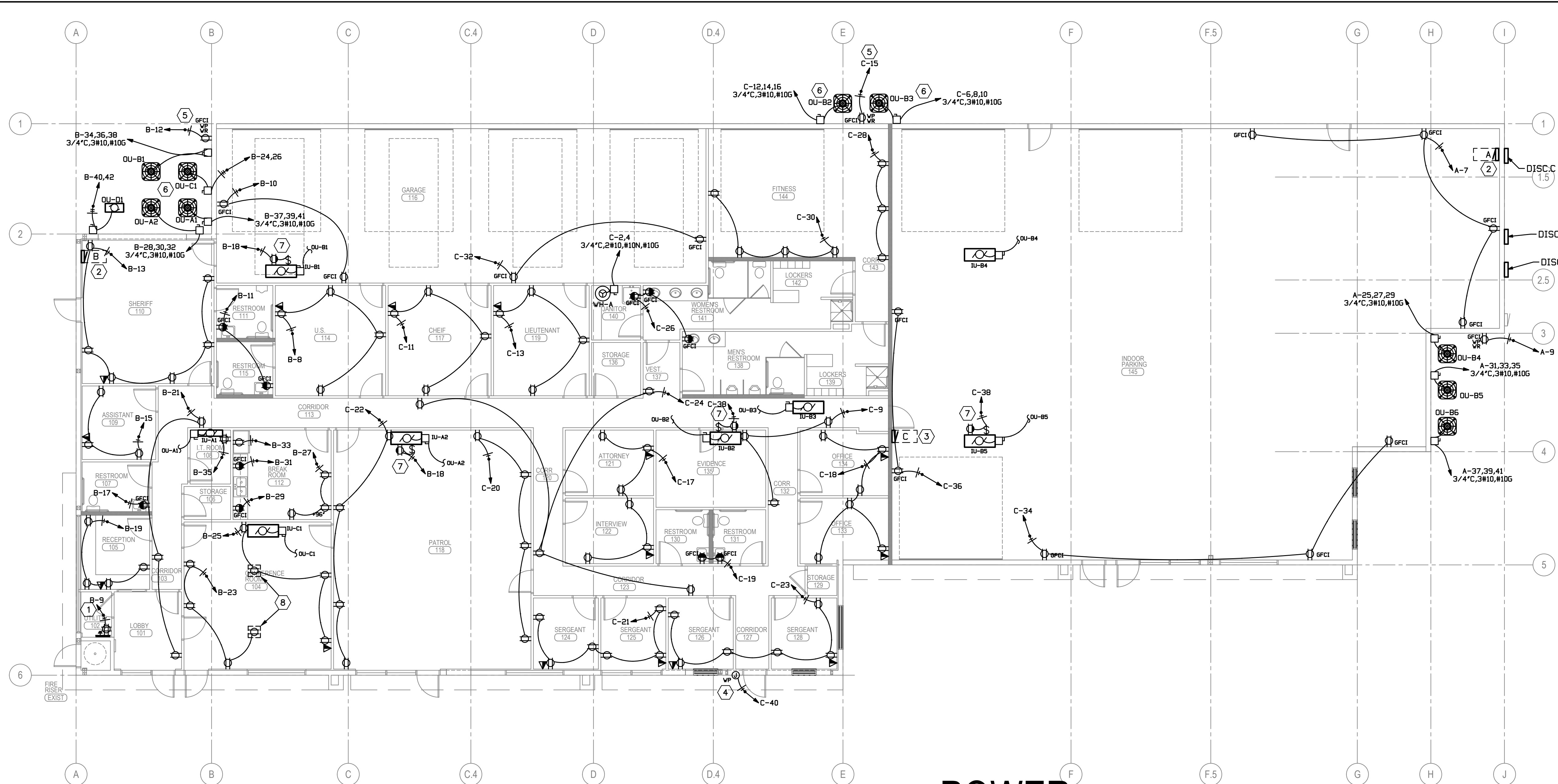
ARCHITECT OF RECORD:  
  
**SELBERG ASSOCIATES INC.**  
 ARCHITECTURE & PLANNING  
 2180 MISSOURI AVE. SUITE 204  
 LAKE HAVASU CITY ARIZONA 86403  
 (928) 855-8844

PROJECT NO. 23089  
 ISSUED FOR: PERMIT SET  
 ISSUED DATE: DECEMBER 12, 2024  
 REVISION: ISSUE DATE

SHEET TITLE:  
 LIGHTING FLOOR PLAN  
 LEVEL 1

SHEET NO. **E1.00**





# POWER FLOOR PLAN

1

1/8"=1'-0"

- POWER GENERAL NOTES:**
- A. ALL EXTERIOR DISCONNECTS SHALL BE W.P. TYPE.
  - B. ALL RECEPTACLES WITHIN 6'-0" OF A SINK TO BE GFCI RATED.
  - C. REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT SIZE, LOCATION, AND ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE ELECTRICAL SERVICE AS REQUIRED FOR EACH ITEM.
  - D. ELECTRICAL CONTRACTOR RESPONSIBLE FOR COORDINATING EXACT LOCATION, QUANTITIES, AND INSTALLATION REQUIREMENTS OF ELECTRICAL EQUIPMENT IN MILL WORK.
  - E. ALL EXTERIOR 15 AND 20 AMPERE RECEPTACLES SHALL BE GFCI TYPE WITH HEAVY DUTY WEATHER PROOF WHILE IN USE COVER PER NEC 406.9(B)(1).
  - F. ALL ELECTRICAL PANEL BOARDS SHALL MAINTAIN MINIMUM 30" WIDTH OR WIDTH OF PANEL WHICH EVER IS GREATER AND 36" INFRONT WORKING CLEARANCE.
  - G. PER NEC 430.102 A DISCONNECTING MEANS SHALL BE PROVIDED FOR A MOTOR IN ACCORDANCE WITH NEC 430.102(B)(1) OR (B)(2).

- POWER KEYED NOTES:**
1. RELOCATE 4'X8'X2" TELEPHONE MOUNTING BOARD "T.M.B." WITH #6 CU. GND., TO COMPLY WITH NEC 800.100, IF REQUIRED BY EQUIPMENT. COORDINATE VOIP PHONE REQUIREMENTS AND EXACT LOCATION WITH LOCAL TELEPHONE/DATA COMPANY, OWNER, & ARCHITECT.
  2. EXISTING PANEL BOARD MAINTAIN 3'-0" INFRONT WORKING CLEARANCE REFER TO ONE-LINE FOR DETAILS.
  3. PROVIDE NEW PANEL BOARD MAINTAIN 3'-0" INFRONT WORKING CLEARANCE REFER TO ONE-LINE FOR DETAILS.
  4. PROVIDE W.P. J-BOX AND TOGGLE SWITCH LOCATED ON SIGN IN CONCEALED LOCATION FOR EXTERIOR SIGNAGE PER NEC 600.5(A). COORDINATE EXACT LOCATIONS PRIOR TO INSTALLATION. EXTEND CIRCUIT THROUGH TIME CLOCK. VERIFY EXACT REQUIREMENTS W/OWNER. IF POSSIBLE RE-USE EXISTING J-BOX. USE EXISTING CONDUIT AND FEEDER, EXTEND AS REQUIRED.
  5. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25' OF ALL MECHANICAL EQUIPMENT UNLESS EXISTING RECEPTACLES ARE PRESENT PER NEC 210.6.3.
  6. OU-A1 UNIT POWERS IU-A1 CONTRACTOR SHALL COORDINATE EXACT WIRE/DISCONNECT CONFIGURATION FROM OU-A1 TO IU-A1 PER MANUFACTURERS REQUIREMENTS FOR CONTROL.
  7. PROVIDE HALF SWITCHED OUTLET AND ON/OFF SWITCH IN CEILING SPACE FOR HVAC MAINTENANCE. COORDINATE SWITCH LOCATION AND MOUNTING WITH CEILING STRUCTURE.
  8. RUN (2)1/2" C. BELOW SLAB TO RECESSED FLOOR BOX RUN UP IN WALL TO ABOVE CEILING. PROVIDE LEGRAND RECESSED FLOOR BOX FOR CONCRETE FLOORS. VERIFY MODEL NUMBER WITH POWER AND DATA/TELECOMM REQUIREMENTS.

GENERAL EQUIPMENT SCHEDULE									
CALLOUT	SYMBOL	DESCRIPTION	VOLTS	AMPS	KVA	CALC. LOAD KVA	CIRCUIT	WIRE CALLOUT	NOTE 1
EF-A1		EXHAUST FAN	120V 1P 2W	3.5	0.42	0.53	B-22	3/4"C,1#10,#10N,#10G	SW W/ LIGHT
EF-A2		EXHAUST FAN	120V 1P 2W	3.5	0.42	0.53	B-14	3/4"C,1#10,#10N,#10G	SW W/ LIGHT
EF-A3		EXHAUST FAN	120V 1P 2W	3.5	0.42	0.53	B-4	3/4"C,1#10,#10N,#10G	
EF-A4		EXHAUST FAN	120V 1P 2W	3.5	0.42	0.53	C-5	3/4"C,1#10,#10N,#10G	SW W/ LIGHT
EF-A5		EXHAUST FAN	120V 1P 2W	3.5	0.42	0.53	C-5	3/4"C,1#10,#10N,#10G	SW W/ LIGHT
EF-B1		EXHAUST FAN	120V 1P 2W	4.08	0.49	0.61	B-14	3/4"C,1#10,#10N,#10G	SW W/ LIGHT
EF-B2		EXHAUST FAN	120V 1P 2W	4.08	0.49	0.61	C-1	3/4"C,1#10,#10N,#10G	SW W/ LIGHT
EF-C1		EXHAUST FAN	120V 1P 2W	3.5	0.42	0.53	C-3	3/4"C,1#10,#10N,#10G	SW W/ LIGHT
OU-A1		OUTDOOR UNIT	208V 3P 3W	22.8	8.21	10.27	B-37,39,41	3/4"C,3#10,#10G	
OU-A2		OUTDOOR UNIT	208V 3P 3W	22.8	8.21	10.27	B-28,30,32	3/4"C,3#10,#10G	
OU-B1		OUTDOOR UNIT	208V 3P 3W	18.3	6.59	8.24	B-34,36,38	3/4"C,3#10,#10G	
OU-B2		OUTDOOR UNIT	208V 3P 3W	18.3	6.59	8.24	C-12,14,16	3/4"C,3#10,#10G	
OU-B3		OUTDOOR UNIT	208V 3P 3W	18.3	6.59	8.24	C-6,8,10	3/4"C,3#10,#10G	
OU-B4		OUTDOOR UNIT	208V 3P 3W	18.3	6.59	8.24	A-25,27,29	3/4"C,3#10,#10G	
OU-B5		OUTDOOR UNIT	208V 3P 3W	18.3	6.59	8.24	A-31,33,35	3/4"C,3#10,#10G	
OU-B6		OUTDOOR UNIT	208V 3P 3W	18.3	6.59	8.24	A-37,39,41	3/4"C,3#10,#10G	
OU-C1		OUTDOOR UNIT	208/120V 2P 3W	15.5	3.22	4.03	B-24,26	3/4"C,2#12,#12N,#12G	
OU-D1		OUTDOOR UNIT	208/120V 2P 3W	11	2.29	2.86	B-40,42	3/4"C,2#12,#12N,#12G	
WH-A		WATER HEATER	208/120V 2P 3W	21.63	4.5	5.63	C-2,4	3/4"C,2#10,#10N,#10G	

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PROJECT NAME: **MOHAVE COUNTY SHERIFF'S OFFICE T.I.**  
**LAKE HAVASU CITY, ARIZONA**  
 6634 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD  
  
**SELBERG ASSOCIATES INC.**  
 ARCHITECTURE & PLANNING  
 2180 MISSOURI AVE. SUITE 204  
 LAKE HAVASU CITY, ARIZONA 86403  
 (928) 938-8844

PROJECT NO. 23089  
 ISSUED FOR: PERMIT SET  
 ISSUED DATE: DECEMBER 12, 2024  
 REVISION ISSUE DATE

SHEET TITLE:  
 POWER FLOOR PLAN  
 LEVEL 1

SHEET NO. **E2.00**



**Series TY-FRB — 2.8, 4.2, 5.6, and 8.0 K-Factor Upright, Pendent, and Recessed Pendent Sprinklers Quick Response, Standard Coverage**

**General Description**

The TYCO Series TY-FRB, 2.8, 4.2, 5.6, and 8.0 K-factor, Upright and Pendent Sprinklers described in this data sheet are quick response, standard coverage, decorative 3 mm glass bulb-type spray sprinklers designed for use in light or ordinary hazard, commercial occupancies such as banks, hotels, and shopping malls.

The recessed version of the Series TY-FRB Pendent Sprinkler, where applicable, is intended for use in areas with a finished ceiling. This recessed pendent sprinkler uses one of the following:

- A two-piece Style 10 (1/2 inch NPT) or Style 40 (3/4 inch NPT) Recessed Escutcheon with 1/2 inch (12.7 mm) of recessed adjustment or up to 3/4 inch (19.1 mm) of total adjustment from the flush pendent position, or a
- A two-piece Style 20 (1/2 inch NPT) or Style 30 (3/4 inch NPT) Recessed Escutcheon with 1/4 inch (6.4 mm) of recessed adjustment or up to 1/2 inch (12.7 mm) of total adjustment from the flush pendent position.

The adjustment provided by the Recessed Escutcheon is intended to ensure the accuracy to which the fixed pipe drops to the sprinklers must be cut.

**IMPORTANT**

Always refer to Technical Data Sheet TFP700 for the "INSTALLER WARNING" that provides cautions with respect to handling and installation of sprinkler systems and components. Improper handling and installation can permanently damage a sprinkler system or its components and cause the sprinkler to fail to operate in a fire situation or cause it to operate prematurely.

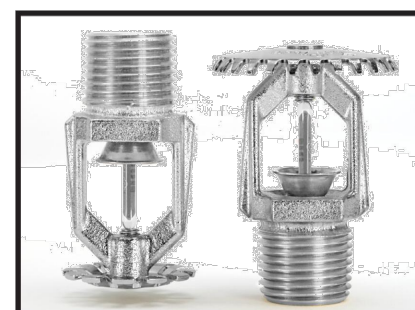
Corrosion-resistant coatings, where applicable, are utilized to extend the life of copper alloy sprinklers beyond that which would otherwise be obtained when exposed to corrosive atmospheres. Although corrosion-resistant coated sprinklers have passed the standard corrosion tests of the applicable approval agencies, the testing is not representative of all possible corrosive atmospheres. Consequently, it is recommended that the end user be consulted with respect to the suitability of these coatings for any given corrosive environment. The effects of ambient temperature, concentration of chemicals, and gas/chemical velocity, should be considered, as a minimum, along with the corrosive nature of the chemical to which the sprinklers will be exposed.

An intermediate level of the Series TY-FRB Pendent Sprinklers is detailed in Technical Data Sheet TFP356, and Sprinkler Guards are detailed in Technical Data Sheet TFP780.

**NOTICE**

The Series TY-FRB Concealed Pendent Sprinklers described herein must be installed and maintained in compliance with this document and with the applicable standards of the National Fire Protection Association, in addition to the standards of any authorities having jurisdiction. Failure to do so may impair the performance of these devices.

Owners are responsible for maintaining their fire protection system and devices in proper operating condition. The installing contractor or sprinkler manufacturer should be contacted with any questions.



**Model/Sprinkler Identification Number (SIN)**

- TY1131: Upright 2.8K, 1/2" NPT
- TY1231: Pendent 2.8K, 1/2" NPT
- TY2131: Upright 4.2K, 1/2" NPT
- TY2231: Pendent 4.2K, 1/2" NPT
- TY3131: Upright 5.6K, 1/2" NPT
- TY3231: Pendent 5.6K, 1/2" NPT
- TY4131: Upright 8.0K, 3/4" NPT
- TY4231: Pendent 8.0K, 3/4" NPT
- TY4831: Upright\* 8.0K, 1/2" NPT
- TY4931: Pendent\* 8.0K, 1/2" NPT

\*Eastern Hemisphere Sales Only

TFP171

Page 1 of 10

JULY 2010



**EDDYTHREAD SPRINKLER PIPE SUBMITTAL DATA SHEET**

**APPROVALS AND SPECIFICATIONS**

- ASTM A135, Grade A
- ASTM A795, Type E, Grade A
- Pressure rated to 300 psi
- Underwriters Laboratories—United States of America
- Underwriters Laboratories—Canada
- Factory Mutual
- NFPA-13
- NFPA-13R
- NFPA-14
- CIVIL DEFENSE APPROVAL—United Arab Emirates
- Made in the United States of America
- UL, UL & FM listed for roll-groove, plain-end and welded joints for wet, dry, preaction and deluge sprinkler systems.
- LEED v4 Certified

**FINISHES AND COATINGS**

- Eddythread Sprinkler Pipe receives an OD mill coating of water-based paint which has corrosion protection expected with a painted carbon steel product, i.e. it would be expected to resist corrosion for an extended and indefinite period in a clean and dry environment and, as environmental conditions deteriorate, the corrosion protection would also diminish.
- Eddythread Sprinkler Pipe (black) receives an ID mill coating of Eddy Guard II MIC preventative coating. EG2 has been tested at independent laboratories to resist bacterial growth and maintain minimal bacterial count after multiple flushes (25) of the pipe.
- Eddythread Sprinkler Pipe when Hot Dip Galvanized by ASTM A123 and supplied by Bull Moose Tube is UL listed and FM approved.

**PRODUCT IDENTIFICATION**

- Every length of Bull Moose fire sprinkler pipe features large, easy-to-read, continuous stenciling, clearly identifying the manufacturer, type of pipe, size, and length.

Nominal Pipe Size (Inches)	1	1-1/4"	1-1/2"	2"
O.D. (in)	1.295	1.650	1.900	2.375
I.D. (in)	1.083	1.418	1.654	2.123
Empty Weight (lb/ft)	1.461	2.070	2.547	3.308
Water Filled Weight (lb/ft)	1.860	2.754	3.468	4.842
C.R.R.*	1.00	1.00	1.00	1.00
Pieces per Lift	70	51	44	30

\*Calculated using Standard UL CRR formula, UL Fire Protection Directory, Category VIZY

**SUBMITTAL INFORMATION**

Project: \_\_\_\_\_

Contractor: \_\_\_\_\_

Engineer: \_\_\_\_\_

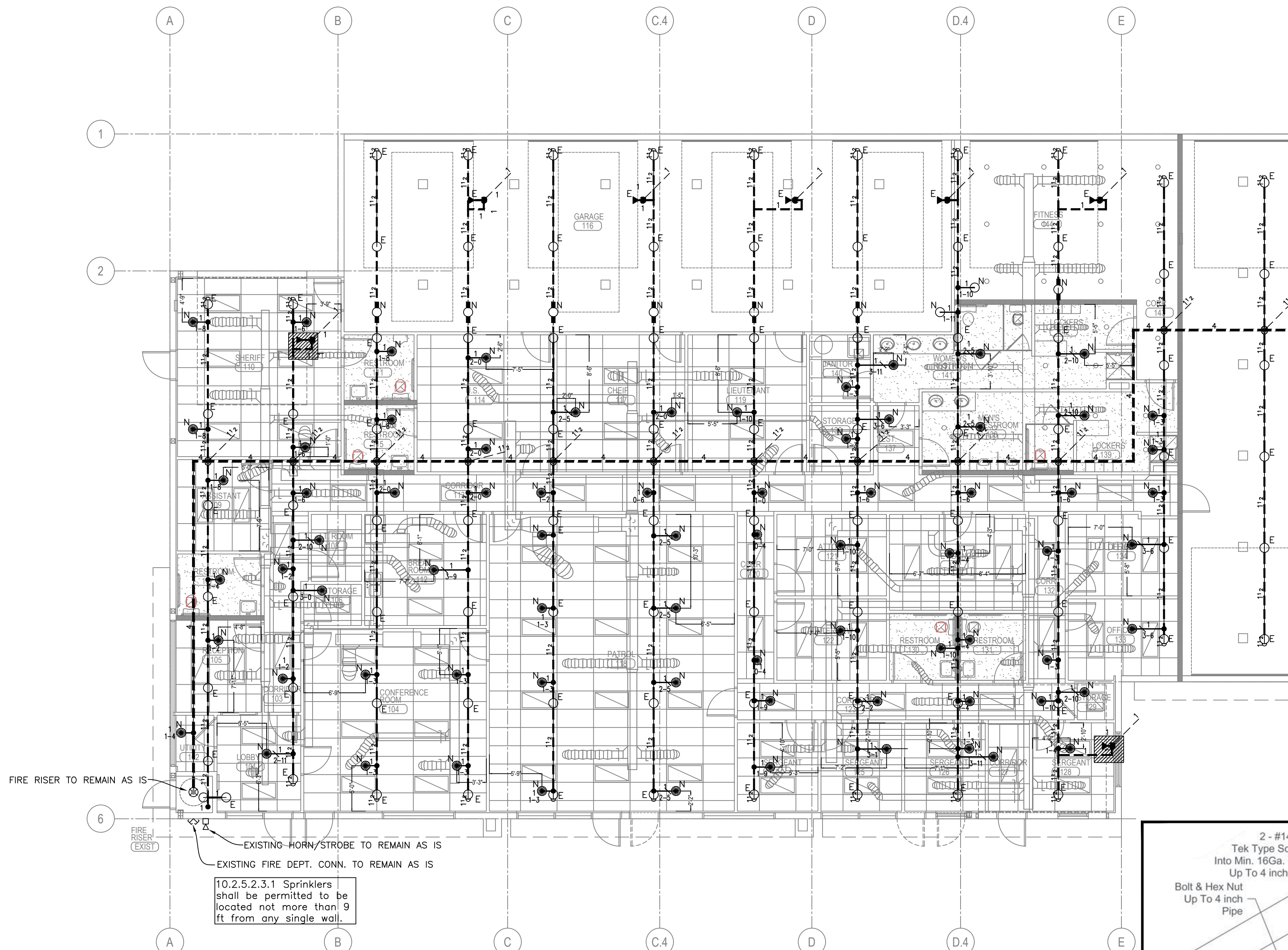
Specification Reference: \_\_\_\_\_

Date: \_\_\_\_\_ System Type: \_\_\_\_\_

Locations: \_\_\_\_\_

Comments: \_\_\_\_\_

○ Eddythread - Black ○ Eddythread - Hot Dip Galvanized



**FIRE SPRINKLER PIPING PLAN**

**GENERAL NOTES**

- SPRINKLER SYSTEM DESIGN PER N.F.P.A. #13 2016 EDITION
- ALL MATERIALS SHALL BE NEW AND U.L. LISTED OR F.M. APPROVED
- FIRE SPRINKLER SYSTEM TO BE INSTALLED, HUNG, BRACED AND TESTED IN ACCORDANCE WITH N.F.P.A. #13 2019 EDITION
- IN LOCALITIES SUBJECT TO FREEZING CONDITIONS IT IS THE OWNERS RESPONSIBILITY TO PROVIDE HEAT THROUGHOUT THE WET PIPE SPRINKLER SYSTEM AREAS AND IN ENCLOSURES FOR DRY PIPE, DELUGE AND OTHER TYPES OF VALVES CONTROLLING WATER SUPPLIES TO SPRINKLER SYSTEMS
- FIRE PROTECTION CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE ABILITY OF THE STRUCTURE TO ADEQUATELY SUPPORT THE FIRE SPRINKLER SYSTEM.
- ALL ELECTRICAL, PAINTING OF PIPE, FURRING, CUTTING OR PATCHING TO BE BY OTHERS.
- NEW SPRINKLER HEADS ARE TO BE ON SCHEDULE 40 OR EDDY-THREAD DROPS AND ARM OVERS.
- NEW BRANCH LINES ARE TO MATCH EXISTING PIPE SIZING WHERE HYDRAULIC CALCULATIONS ARE NOT REQUIRED.
- SPRINKLER HEADS HAVE BEEN ADDED TO ACCOMMODATE TENANT IMPROVEMENTS. AREAS OUTSIDE SCOPE OF WORK ARE TO REMAIN.
- THE OWNER IS RESPONSIBLE FOR THE PERIODIC INSPECTION, TESTING, AND MAINTENANCE OF THESE FIRE SPRINKLER SYSTEMS IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 25 2016 EDITION. THIS WORK MUST BE DONE BY QUALIFIED PERSONNEL STARTING AFTER THE WARRANTY PERIOD HAS EXPIRED. THE COMPANY THAT DESIGNED AND INSTALLED THIS SYSTEM IS THE BEST QUALIFIED TO PROVIDE THE ONGOING LONG TERM TESTING, SERVICING, AND MAINTENANCE OF THIS SYSTEM(S).

**SCOPE OF WORK (SPRINKLERS)**

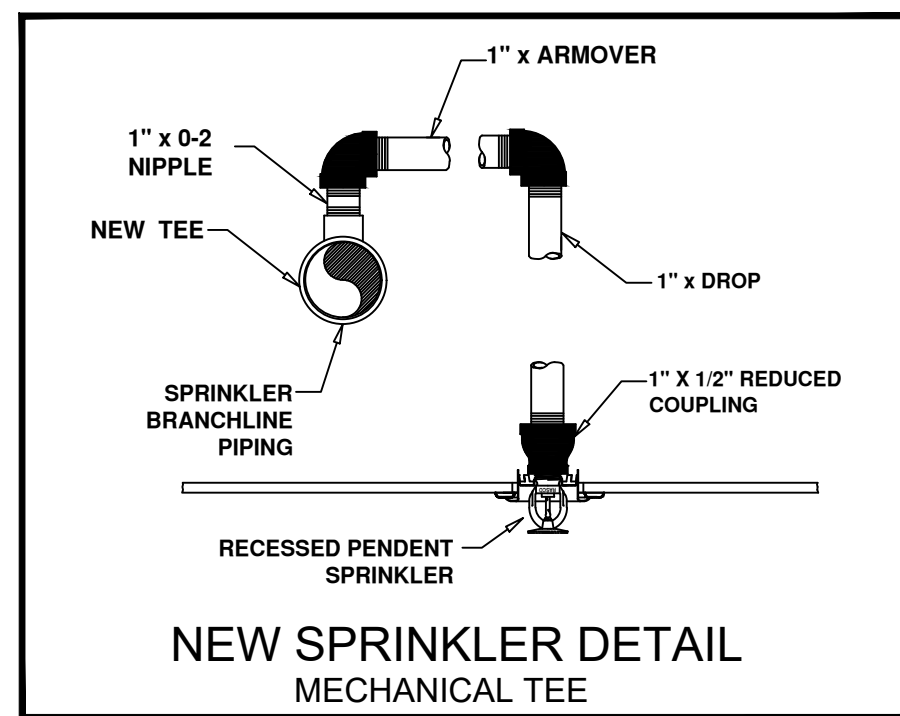
- ADD NEW PENDENT SPRINKLERS WHERE REQUIRED LOCATED WITHIN THE SCOPE OF WORK AREA. REPLACE ANY DAMAGED SPRINKLERS WITH NEW NEW QUICK RESPONSE STANDARD COVERAGE SPRINKLERS.
- ADD NEW HANGER ASSEMBLIES, WHERE REQUIRED.
- F.P. CONTRACTOR SHALL TEST NEW SPRINKLER SYSTEM WITH THE LOCAL AHJ AND PROVIDE TEST CERTIFICATE WITH APPROVAL SIGNATURES, AS REQUIRED. TEST CERTIFICATE COPY SHALL BE LOCATED WITHIN THE AS-BUILT PLANS CABINET.
- PROVIDE AS BUILT PLANS AND LOCATE WITHIN THE PLANS CABINET, AS REQUIRED.
- ALL EXISTING PIPING, HANGERS AND RISER ASSEMBLY SHALL REMAIN AS IS.
- ALL DASHED LINES (MAIN AND BRANCH LINE PIPING INDICATES TO REMAIN AS IS.

**SPRINKLER LEGEND**

SYM	TYPE	COLOR	ESC	RESPONSE	TEMP	K	NPT	MFG.	MODEL #	ID #	QTY
●	PENDENT	WHITE	REC	QR	155	5.6	1/2	TYCO	TY-FRB	TY3231	74
○	UPRIGHT	-	-	QR	200	5.6	1/2	TYCO	TY-FRB	TY3131	9

TOTAL THIS PROJECT 83

**BRANCH LINE FITTING NOTES:**  
A. ALL NEW SPRINKLER PIPING SHALL BE SCHEDULE 40 OR EDDY-THREAD WITH CAST OR DUCTILE IRON FITTINGS



**NOTE REGARDING HYDRAULIC CALCULATIONS**

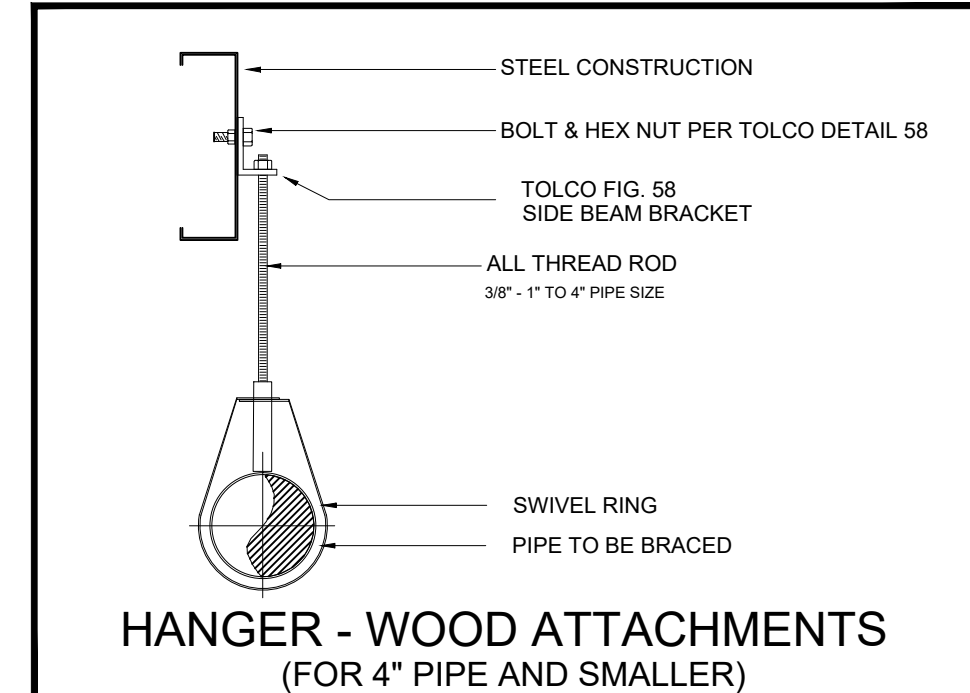
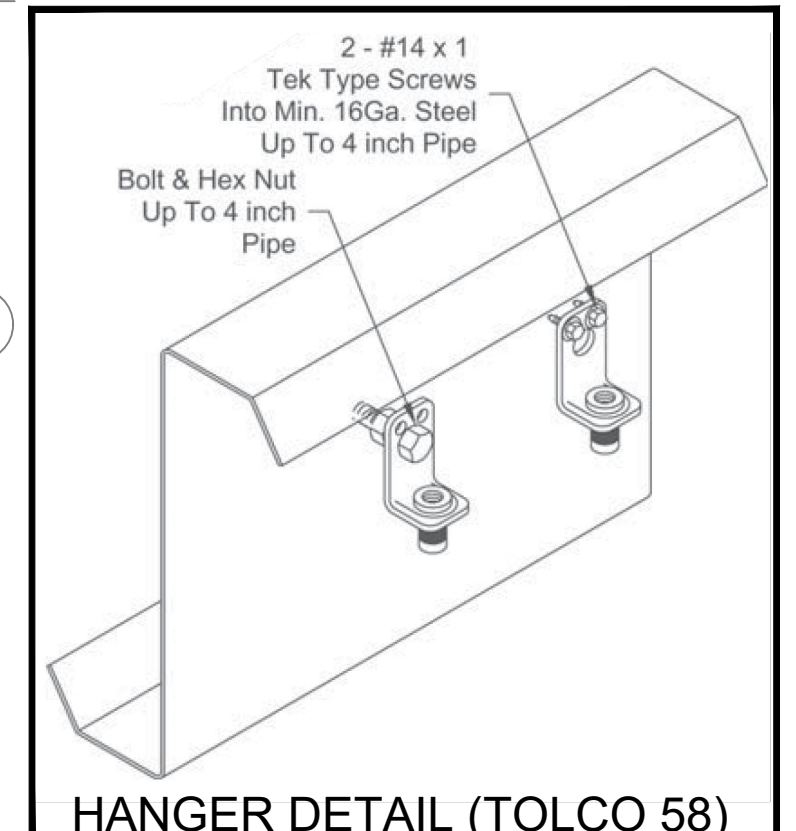
EXISTING SYSTEM DESIGN CRITERIA FOR REFERENCE ONLY  
EXISTING DESIGN CRITERIA  
N.F.P.A. 13 2016 EDITION COMMERCIAL SYSTEM BASED ON ORDINARY HAZARD II OCCUPANCY. EXISTING SPRINKLER SYSTEM CALCULATED SPRINKLER SPACING @ 130 SQ. FT. MAX. EXISTING DESIGN DENSITY IS .20/ OVER THE MOST REMOTE 1500 SQUARE FOOT AREA  
DESIGN CRITERIA FOR NEW SPACE FOR MOHAVE COUNTY SHERIFF LIGHT HAZARD SPRINKLER SPACING @ 225 SQ. FT. MAX. NFPA 13, 2016 EDITION

THE EXISTING SPRINKLER DESIGN AND CRITERIA UTILIZED FOR THE SHELL SPRINKLER SYSTEM IS SUFFICIENT FOR PROVIDING THE REQUIRED WATER DEMAND FOR THE MOHAVE COUNTY SHERIFF'S OFFICE T.I. THEREFORE, HYDRAULIC CALCULATIONS ARE NOT REQUIRED OR PROVIDED AS PART OF THIS SUBMITTAL.

**SYMBOL LEGEND**

- NEW 5.6K Q.R. 155" PENDENT SPRINKLER
- NEW 5.6K Q.R. 200" UPRIGHT SPRINKLER
- EXISTING 5.6K Q.R. 200" UPRIGHT SPRINKLER
- MECHANICAL TEE
- EXISTING SPRINKLER PIPING
- NEW SPRINKLER PIPING

\* SEE SPRINKLER LEGEND FOR SPECIFIC SPRINKLER TYPES \*



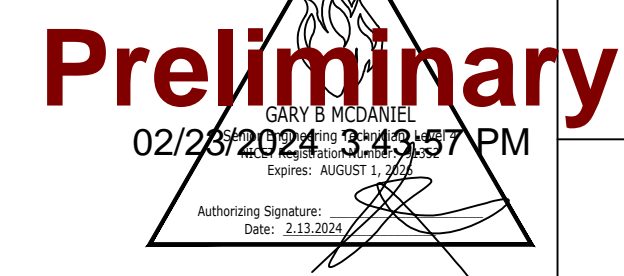
**MAXIMUM DISTANCE BETWEEN HANGERS (FT - IN)**

NOMINAL PIPE SIZE (N)	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	4	6	8
STEEL PIPE	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED LIGHTWALL	N/A	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A
COPPER TUBE	8-0	8-0	10-0	10-0	12-0	10-0	15-0	15-0	15-0
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	N/A	N/A	N/A

8.2.3.3 THE DISTANCE BETWEEN A HANGER AND THE CENTERLINE OF AN UPRIGHT SPRINKLER SHALL NOT BE LESS THAN 3".

TABLE 9.1.2.1 HANGER ROD SIZE

PIPE SIZE	DIAMETER OF ROD	PIPE SIZE	DIAMETER OF ROD
4" AND LESS	3/8"	6" AND 8"	1/2"



REVISION	DATE

**MOHAVE COUNTY SHERIFF'S OFFICE T.I. LAKE HAVASU CITY, ARIZONA**  
6534 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

JOB NUMBER: MOHAVE  
DATE: 2/22/2024  
DESIGNED BY: GJM  
DRAWN BY: LM  
CHECKED BY: GJM

SHEET TITLE: FIRE SPRINKLER PIPING PLAN

SHEET NUMBER:



**TYPE OF SYSTEM:**

PROTECTED PREMISES  
 DIGITAL ADDRESSABLE  
 INDICATING CLASS "B"  
 SLC CLASS "4"  
 INITIATING CLASS "B" (WATERFLOW AND TAMPERS ONLY)  
 TEMPORAL SOUNDERS/SYNCHRONIZED STROBES  
 POWER-LIMITED SYSTEM  
 FREE AIR CABLE WITH CONDUIT STUBUP INSTALLATION

**CODES AND STANDARDS:**

IBC (W/ AMENDMENTS) 2018  
 IMC (W/ AMENDMENTS) 2018  
 IFC (W/ AMENDMENTS) 2018  
 NEC (W/ AMENDMENTS) 2017  
 NFPA 72 2016

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PROJECT NAME  
**MOHAVE COUNTY SHERIFFS OFFICE T.I.  
 LAKE HAVASU CITY, ARIZONA**  
 6534 SHOWPLACE AVE. TRACT: 2395 LOT: 5A

ARCHITECT OF RECORD  
**SELBERG ASSOCIATES  
 INC.**  
 ARCHITECTURE &  
 PLANNING  
 2130 MESQUITE AVE SUITE 204  
 LAKE HAVASU CITY ARIZONA 86403  
 (928) 855-6644

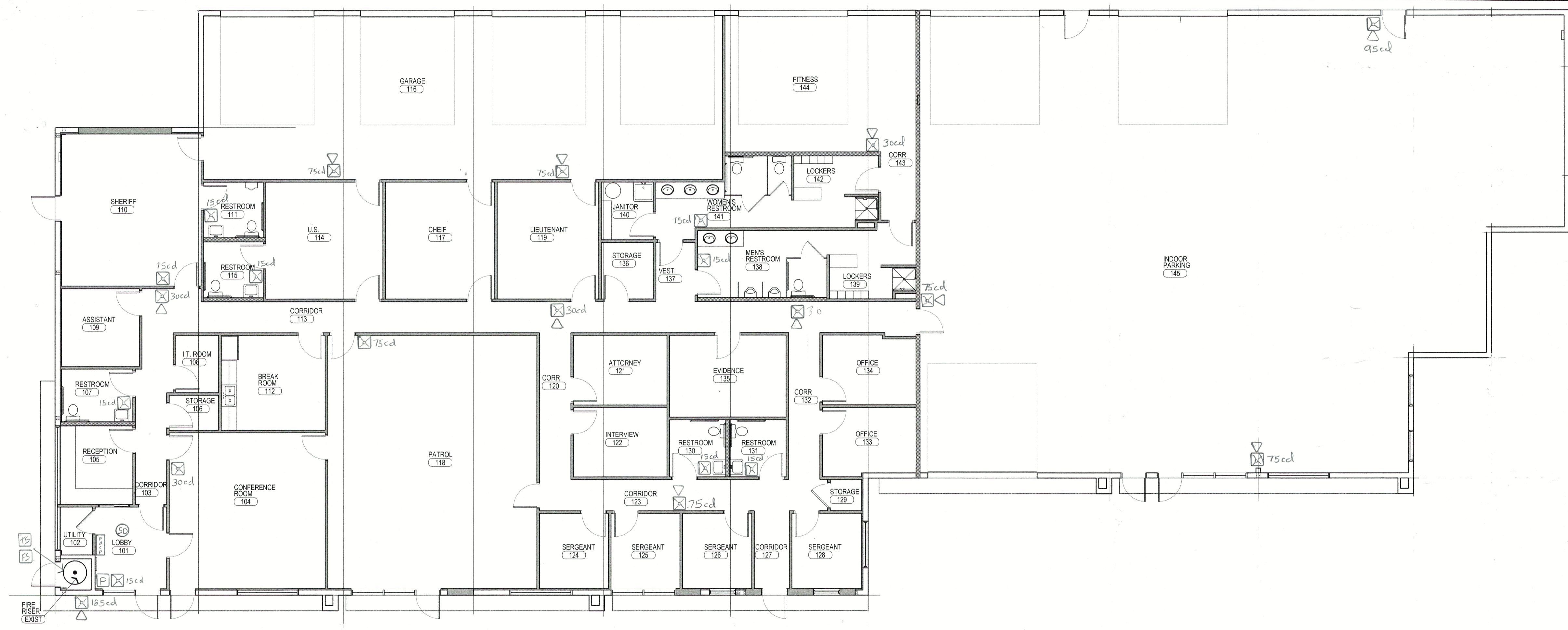
PROJECT NO. 23989  
 ISSUED FOR: PERMIT SET  
 ISSUED DATE: FEBRUARY 15, 2024  
 REVISION ISSUE DATE

SHEET TITLE:  
**FIRE ALARM FLOOR PLAN**

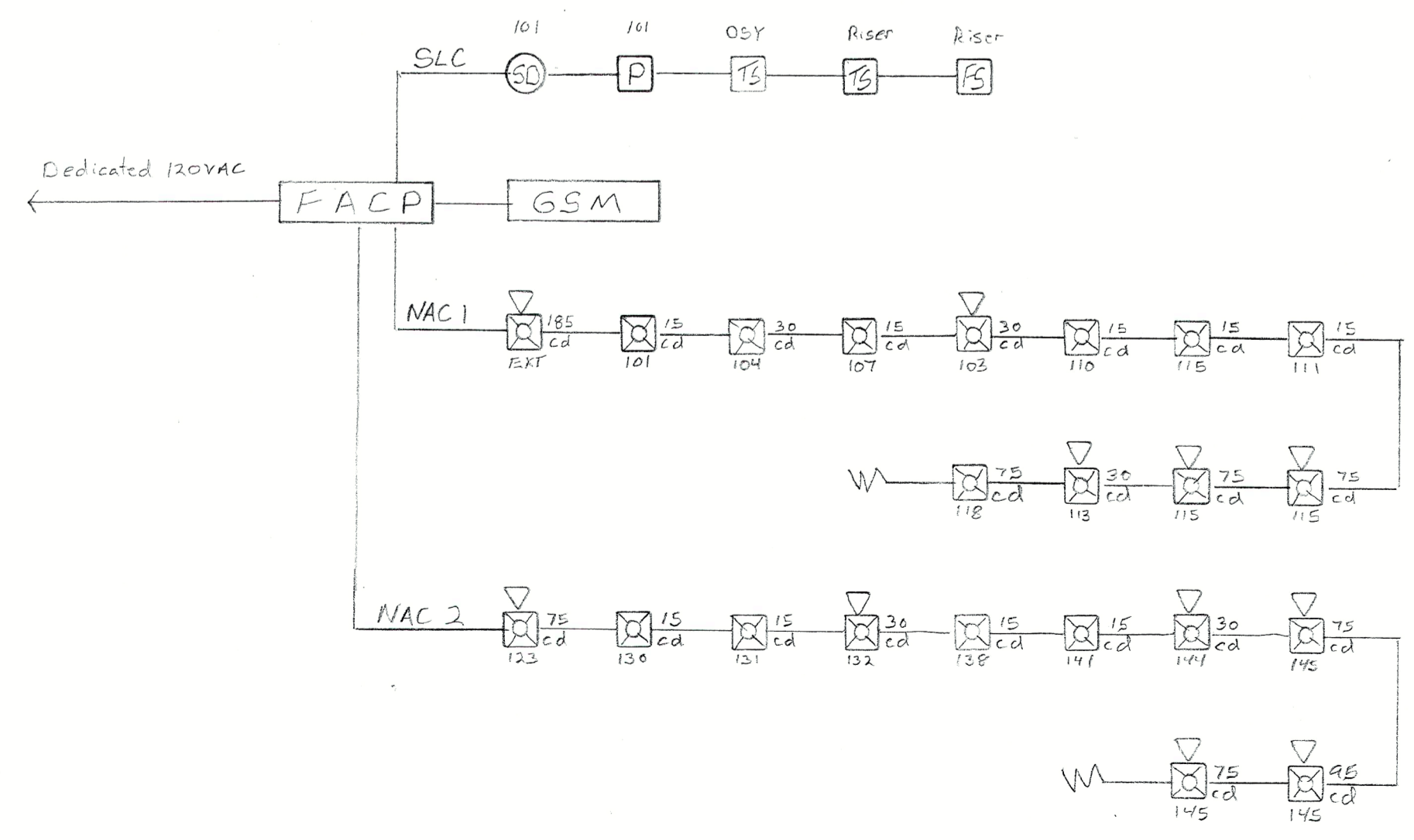
SHEET NO.  
**FA1.01**

INPUTS AND ACTIONS	
SMOKE DETECTOR (SPOT TYPE)	
SMOKE DETECTOR (SMOKE ZONE)	
MANUAL PULL STATION	
DUCT SMOKE DETECTOR	
WATER FLOW FOR AREA	
TAMPER SWITCH	
KITCHEN HOOD MONITOR	
FACP CIRCUIT FAILURE	
BATTERY FAULT	
GROUND FAULT	
OPEN CIRCUIT	
LOSS OF PRIMARY POWER	
MISSING DEVICE	
DIRTY SMOKE DETECTOR	

OUTPUTS & CONTROLS	
OPERATE ALL AREA OF EVACUATION SIGNALS	
SOUND PIEZO AT FACP AND FAAP	
INDICATE DEVICE LOCATION AT THE FACP	
INDICATE DEVICE LOCATION AT FAAP	
SEND ALARM SIGNAL TO OFFSITE MONITORING LOCATION	
SEND TROUBLE SIGNAL TO OFFSITE MONITORING LOCATION	
SEND SUPERVISORY SIGNAL TO OFFSITE MONITORING LOCATION	
ILLUMINATE LED ON APPROPRIATE REMOTE INDICATOR	
ACTIVATE APPROPRIATE HVAC UNIT SHUTDOWN	
ACTIVATE ASSOCIATED SMOKE ZONE DOOR HOLDER RELEASE RELAY	



**1 FIRE ALARM FLOOR PLAN**  
 1/8"=1'-0"



- FACP** Firelite ES50x
- GSM** Starlink SLE-LTE1
- SD** Firelite SD365 Smoke
- P** Firelite B612LX Pull
- T** Firelite MMF301 Tamper
- F** Firelite MMF301 Flow
- ⊗** System Sensor SRL Strobe
- ⊗** System Sensor P2RL Horn Strobe

