

# A REMODEL FOR:

## FHS URGENT CARE

260 3rd Ave N Twin Falls, ID 83301

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### ABBREVIATIONS

AC	ACOUSTICAL CEILING	DIA	DIAMETER	GYP BD	GYPSUM BOARD
ADJ	ADJUSTABLE - ADJACENT	DIM	DIMENSION	HB	HOSE BIB
AFF	ABOVE FINISH FLOOR	DF	DRINKING FOUNTAIN	HC	HANDICAPPED
AL	ALUMINUM	DP	DEEP	HDR	HEADER
ALT	ALTERNATE	DR	DOOR	HM	HOLLOW METAL
ANOD	ANODIZED	DS	DOWNSPOUT	HORIZ	HORIZONTAL
AP	ACOUSTICAL WALL PANEL	DWG	DRAWING	HT	HEIGHT
APPROX	APPROXIMATE	E	EAST	PSF	POUNDS PER SQUARE FOOT
ARCH	ARCHITECT (-URAL)	(E)	EXISTING	PT	POUNDS PER SQUARE INCH
AW	ACOUSTICAL WALL	EA	EACH	PTD	PAPER TOWEL DISPENSER
AWF	ACOUSTICAL WALL FABRIC	EJ	EXPANSION JOINT	QT	QUARTZ TILE
BLDG	BUILDING	EL	ELEVATION	R	RISER, RADIUS
BM	BEAM	ELEC	ELECTRIC (-AL)	RB	RESILIENT BASE
BOD	BOTTOM OF DECK	EP	ENAMEL PAINT	RD	ROOF DRAIN
BOT	BOTTOM	EQ	EQUAL	RO	ROUGH OPENING
BTWN	BETWEEN	EW	EACH WAY	RR	RESTROOM
CB	CATCH BASIN	EXG	EXISTING	RSF	RUBBER SHEET FLOORING
CBT	CABINET	EXP	EXPANSION	S	SOUTH
CG	CORNER GUARD	EXT	EXTERIOR	SC	SOLID CORE
CJ	CONTROL JOINT	FA	FIRE ALARM	SCU	STRUCTURAL CLAY UNIT
CL	CENTERLINE	FD	FLOOR DRAIN	SD	SOAP DISPENSER
CLG	CEILING	FE	FIRE EXTINGUISHER	SDSV	STATIC DISIPATIVE SHEET VINYL
CLR	CLEAR (-ANCE)	FEC	FIRE EXTINGUISHER CABINET	SF	SPECIALTY FINISH
CMT	CERAMIC MOSAIC TILE	FF	FACTORY FINISH, FINISH FLOOR	SFGL	SAFETY GLASS
CMU	CONCRETE MASONRY UNIT	FIN	FINISH (-ED)	SHTG	SHEATHING
CO	CLEAN OUT	FLR	FLOOR (-ING)	SIM	SIMILAR
COL	COLUMN	FND	FOUNDATION	SL	SLOPE
CONC	CONCRETE	FOC	FACE OF CONCRETE	SND	SANITARY NAPKIN DISPENSER
CONT	CONTINUOUS, CONTINUE	FRP	FIBERGLASS REINFORCED	SP	SPACE (-S)
CORR	CORRIDOR	NIC	NOT IN CONTRACT	SPEC	SPECIFICATION
CP	CARPET	NDU	SANITARY NAPKIN	SQ	SQUARE
CS	CONCRETE SLAB, SEALED	FT	DISPOSAL UNIT	S/S	STAINLESS STEEL
CT	CERAMIC TILE	FTG	FOOTING	ST	STAIN
CTJ	CONTROL JOINT	FWC	FABRIC WALL COVERING	STL	STEEL
CTR	COUNTER (-TOP)	GA	GALUGE	STR	STRUCTURE (-AL)
DBL	DOUBLE	GALV	GALVANIZED	STRG	STORAGE
DET	DETAIL	GH	GARMENT HOOK	SV	SHEET VINYL FLOORING
		GMM	GLASS MESH MORTAR BOARD		

#### GENERAL NOTES:

- ALL WORK SHALL MEET CURRENT STATE, LOCAL CODES, ORDINANCES, & 2018 IBC
- ALL MECHANICAL, ELECTRICAL, & PLUMBING WORK SHALL MEET ALL CURRENT APPLICABLE STATE & LOCAL CODES.
- ALL UTILITIES SHALL BE PROPERLY IDENTIFIED & LOCATED BEFORE WORK BEGINS ON PROJECT.
- CONTRACTOR SHALL VERIFY ALL CONDITIONS & DIMENSIONS AT THE JOB SITE & NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE BEGINING OR FABRICATING ANY WORK.
- DO NOT SCALE DRAWINGS.
- ALL DOOR HANDLES SHALL BE LEVER TYPE, ALL DOOR HARDWARE SHALL BE A.D.A COMPLIANT AS PER CURRENT ANSI 117.1
- AT MAIN ENTRANCE DOOR SHALL HAVE SINGLE ACTION LOCKING DEVICE &/ OR SIGNED "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED."

#### PLAN ANALYSIS

Based on 2018 Edition of I.B.C

Architect of Record Laughlin Ricks Architecture, L.L.C.

Engineer: SHAWN MEADOR - PAYNE ENGINEERING (ELECTRICAL) DAVE HANSEN - ESA (MECHANICAL, PLUMBING)

Job Address:

Legal Description:

Occupancy Classification: B.S-1 Occupant Load Per Area: B: 5,102/150 34

Occupancy Use: MEDICAL OFFICE S-1: 1,330/300 4

Allowable Stories Per Code: 2 Provided: 2 (IBC Table 505.4) Total: 38

Floor Area: Basement: 1,330 1<sup>st</sup>: 5,102 Exits Required: Basement: 2 1<sup>st</sup>: 2

Mezzanine: 3<sup>rd</sup>: Total: 6,432 2<sup>nd</sup>: 3<sup>rd</sup>: 4<sup>th</sup>:

Total Required Exits Per Occupant Load: 2 (IBC Table 1006.3.2)

Actual furthest travel distance to exit: 102' (IBC Table 1017.2 & 1006.2.1)

Penetrations? Show Approved Listed Products on Plans: N/A

Type of Construction: VB Allowable Building Height: 40'

Seismic Design Category: C Allowable Area Calc's: 9,000 SF

Automatic Sprinkler System: Yes: No: X (IBC Table 506.2)

Maximum Floor Area Allowed: 9,000 SF Exit Signs: Yes: X No:

Special Inspections Required? Yes: No: X Emergency Lights: Yes: X No:

Firewalls Required? Yes: No: X Fire Extinguishers Shown: Yes: X No: (IFC Section 906)

Occupancy Separation Use? Yes: No: X Fire Hydrant Locations Shown: Yes: No: X

Areas of Refuge Required? Yes: No: X Vestibule Required: Yes: No: X (IBC Section 1009.2,3,4)

Area Separation Required? Yes: No: X Classified Areas? Yes: No: X (Show on plans & Show Areas)

Fire Resistance Ratings of BLDG Elements : 0 (IBC Table 601) (Specify Rating)

Minimum Roof Class: C (IBC Table 1505.1) Exterior Wall Openings: NO (IBC 705.8)

Fire Doors: NO (IBC Table 716.1.2) Fire Alarm System: YES (IBC 907.2)

Fire Flow and Duration: (E) Corridor Width: 44" (IBC Table 1020.2)

Rated Structural Frame: Yes: No: X Rated Corridors: Yes: No: X (Roof Supports Only) (IBC Section 1020.1)

Rated Bearing Walls-Exterior: Yes: No: X Rated Bearing Walls-Interior: Yes: No: X

Rated Nonbearing Walls-Exterior: Yes: No: X Rated Bearing Walls-Interior: Yes: No: X (>30' Fire Separation) (Roof Supports Only)

Rated Nonbearing Walls-Exterior: Yes: No: X Rated Nonbearing Walls-Interior: Yes: No: X (10'-30' Fire Separation)

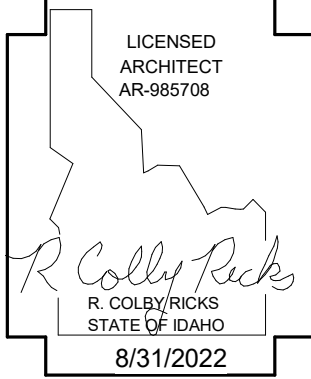
Rated Floor Construction: Yes: No: X Rated Roof Construction: Yes: No: X

Lighting Layout and COM Check? Yes: X No:

Comments:

#### 1 PLAN ANALYSIS

1/4" = 1'-0"



DATE

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TITLE SHEET

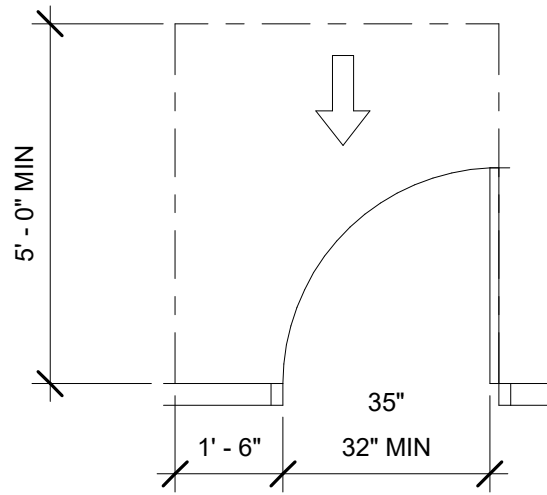
Laughlin Ricks Architecture  
—architecture/planning—  
134 3RD AVE. E. \* Twin Falls, Idaho 83301  
PHONE: (208) 736-8050

DATE: 8/31/2022

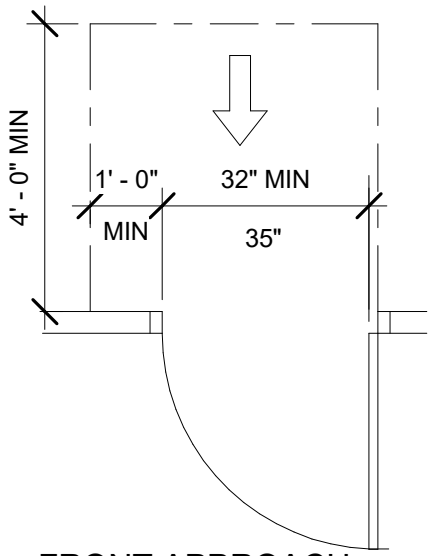
NM RCR  
Drawn Checked

A0-0

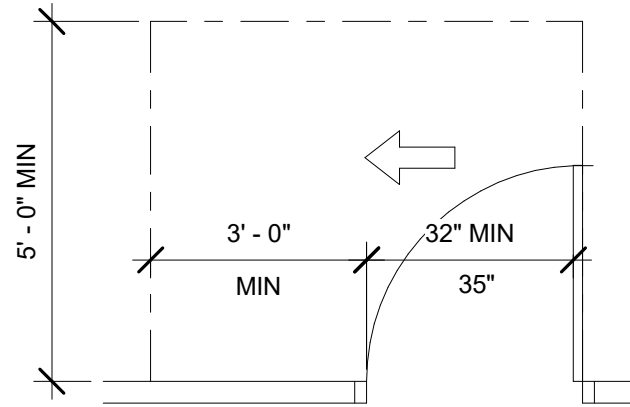




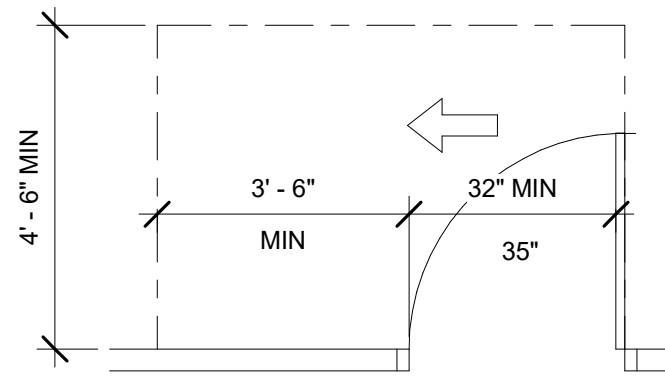
FRONT APPROACH  
PULL SIDE, CLEARANCE



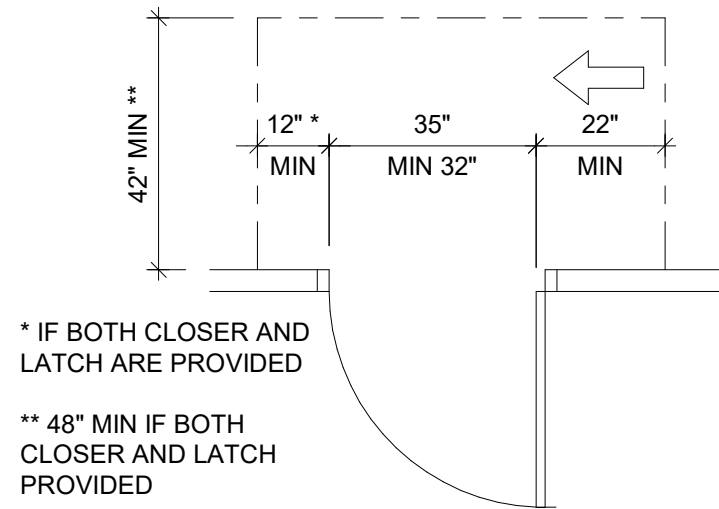
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PUSH SIDE, CLEARANCE



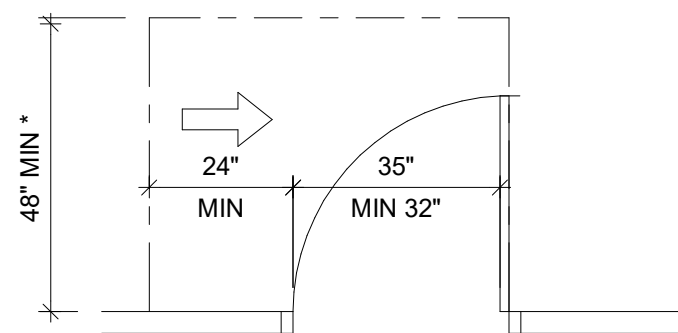
HINGE APPROACH  
PULL SIDE, CLEARANCE



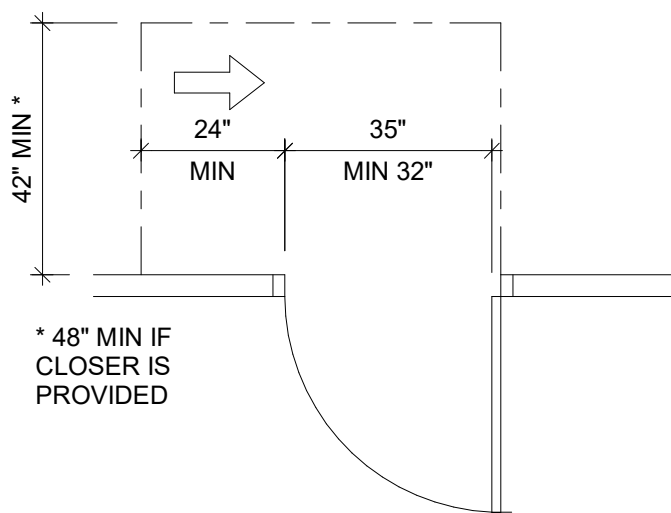
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PUSH SIDE, CLEARANCE



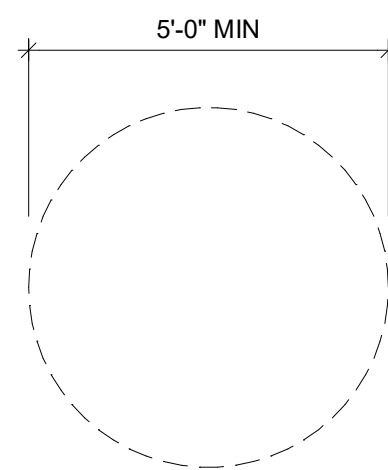
HINGE APPROACH  
PUSH SIDE, CLEARANCE



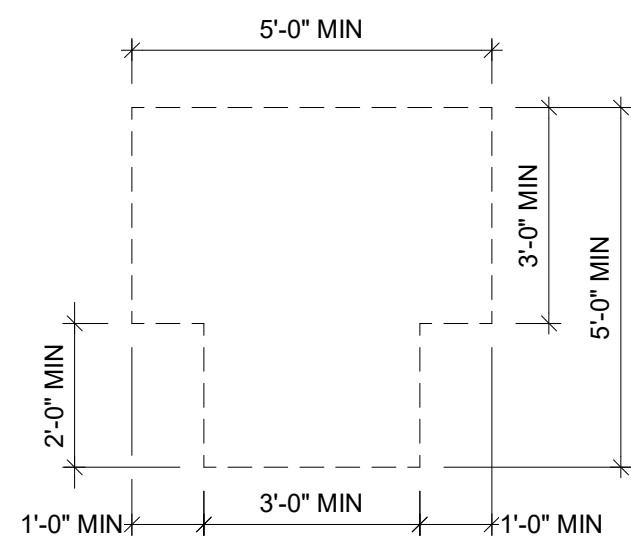
LATCH APPROACH  
PULL SIDE, CLEARANCE



LATCH APPROACH  
PUSH SIDE, CLEARANCE

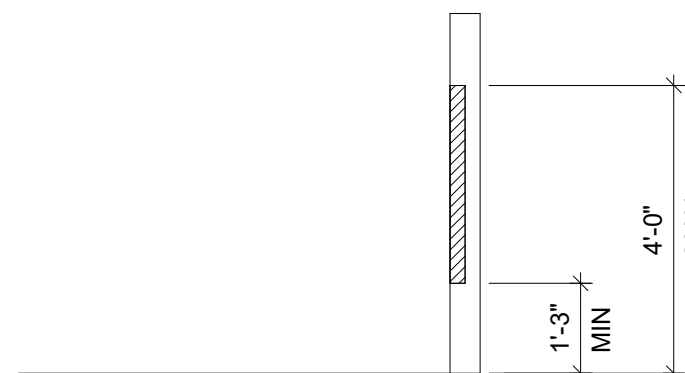


CIRCULAR  
TURNING SPACE

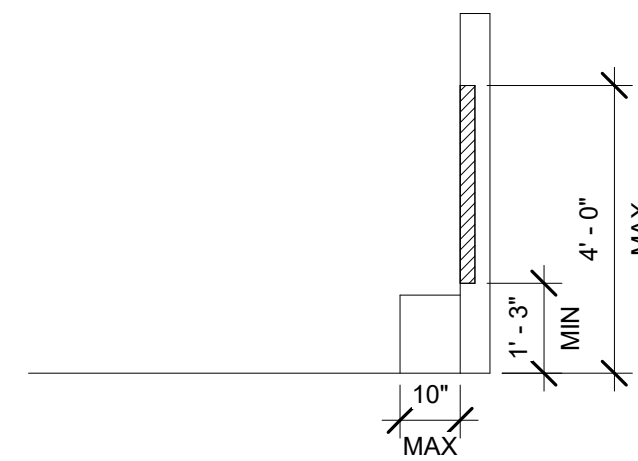


T-SHAPED  
TURNING SPACE

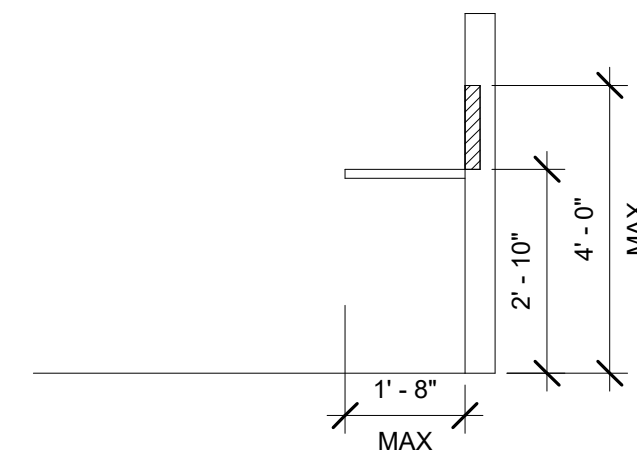
1 DOOR CLEARANCE REQUIREMENTS  
3/8" = 1'-0"



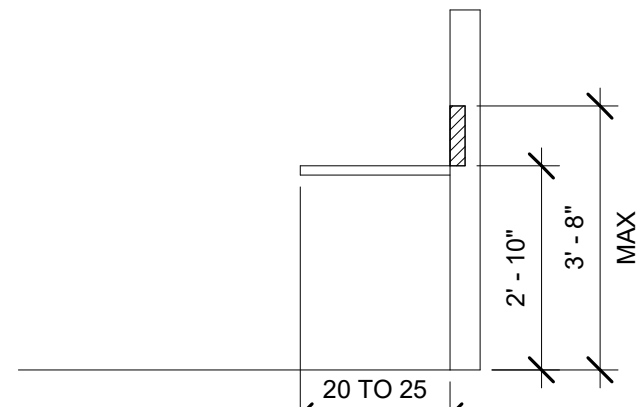
UNOBSTRUCTED FORWARD REACH



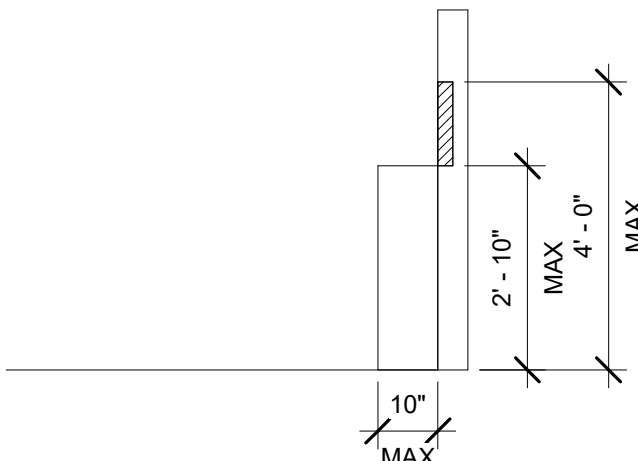
UNOBSTRUCTED SIDE REACH



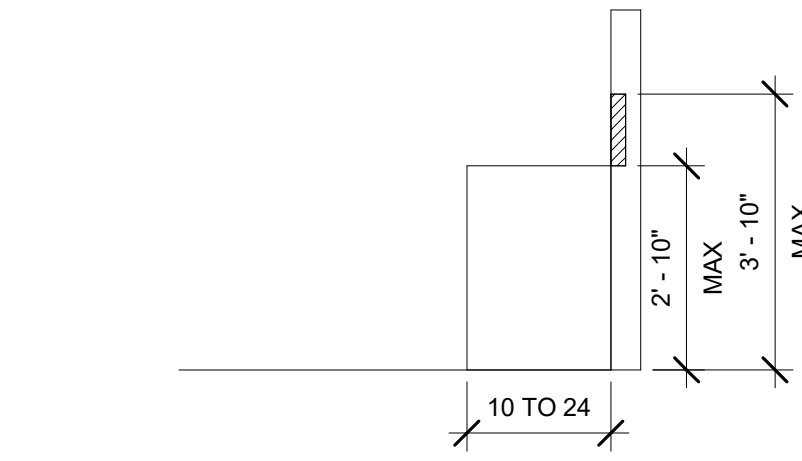
OBSTRUCTED HIGH FORWARD REACH  
(A)



OBSTRUCTED HIGH FORWARD REACH  
(B)

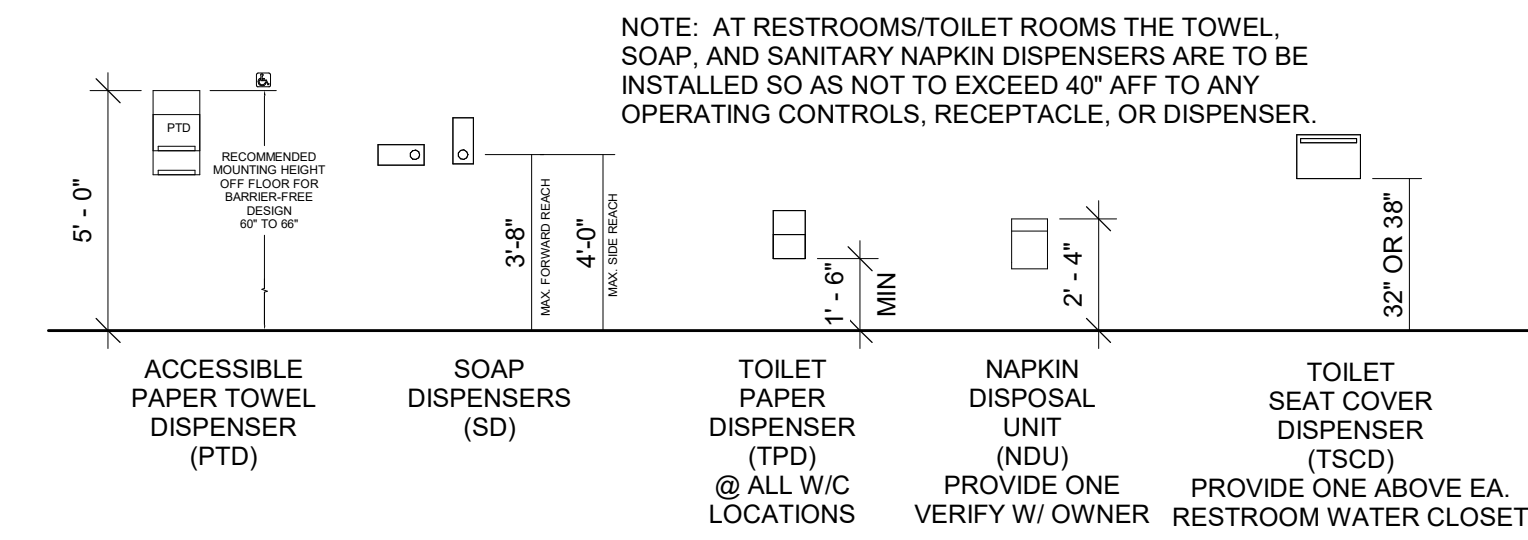
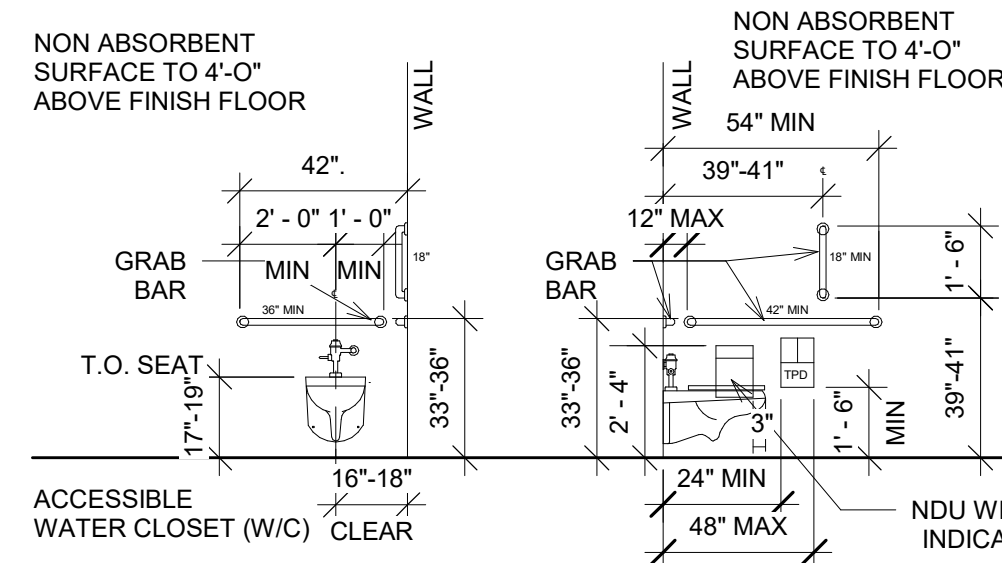


OBSTRUCTED HIGH SIDE REACH  
(A)



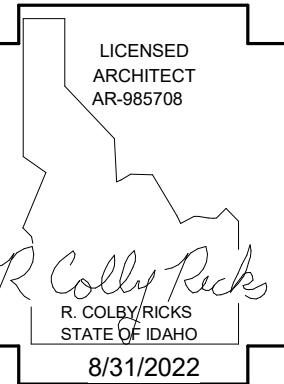
OBSTRUCTED HIGH SIDE REACH  
(B)

2 OPERABLE PARTS & REACH RANGES  
3/8" = 1'-0"



3 GENERAL- FIXTURE MOUNTING  
HEIGHTS  
1/4" = 1'-0"

1. PROTECTION UNDER SINKS  
606.6 EXPOSED PIPES AND SURFACES. WATER SUPPLY AND DRAINPIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.
2. FLUSH CONTROLS  
604.6 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET. EXCEPTION: IN AMBULATORY ACCESSIBLE COMPARTMENTS COMPLYING WITH SECTION 604.9, FLUSH CONTROLS SHALL BE PERMITTED TO BE LOCATED ON EITHER SIDE OF THE WATER CLOSET.
3. TOILET PAPER DISPENSER  
604.7 DISPENSERS. TOILET PAPER DISPENSERS SHALL COMPLY WITH SECTION 309.4 AND SHALL BE 7 INCHES (180 mm) MINIMUM AND 9 INCHES (230 mm) MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 15 INCHES (380 mm) MINIMUM AND 48 INCHES (1220 mm) MAXIMUM ABOVE THE FLOOR, AND SHALL NOT BE LOCATED BEHIND THE GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROL DELIVERY, OR DO NOT ALLOW CONTINUOUS PAPER FLOW.



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**CODE REQUIREMENTS**

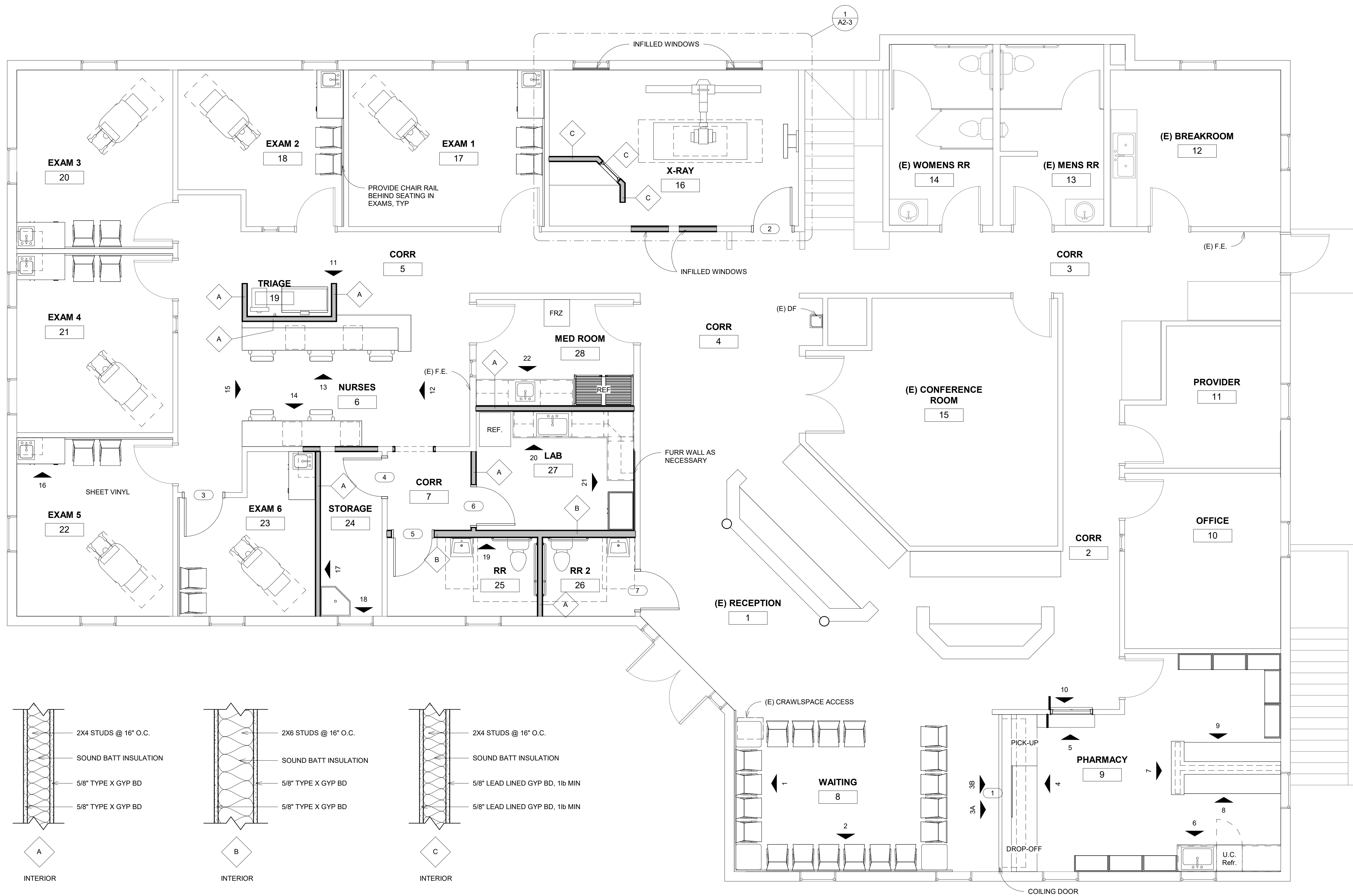
**Laughlin Ricks Architecture**  
—architecture/planning—  
134 3RD AVE. E. \* Twin Falls, Idaho 83301  
PHONE: (208) 736-8050

DATE: 8/31/2022

NM RCR  
Drawn Checked

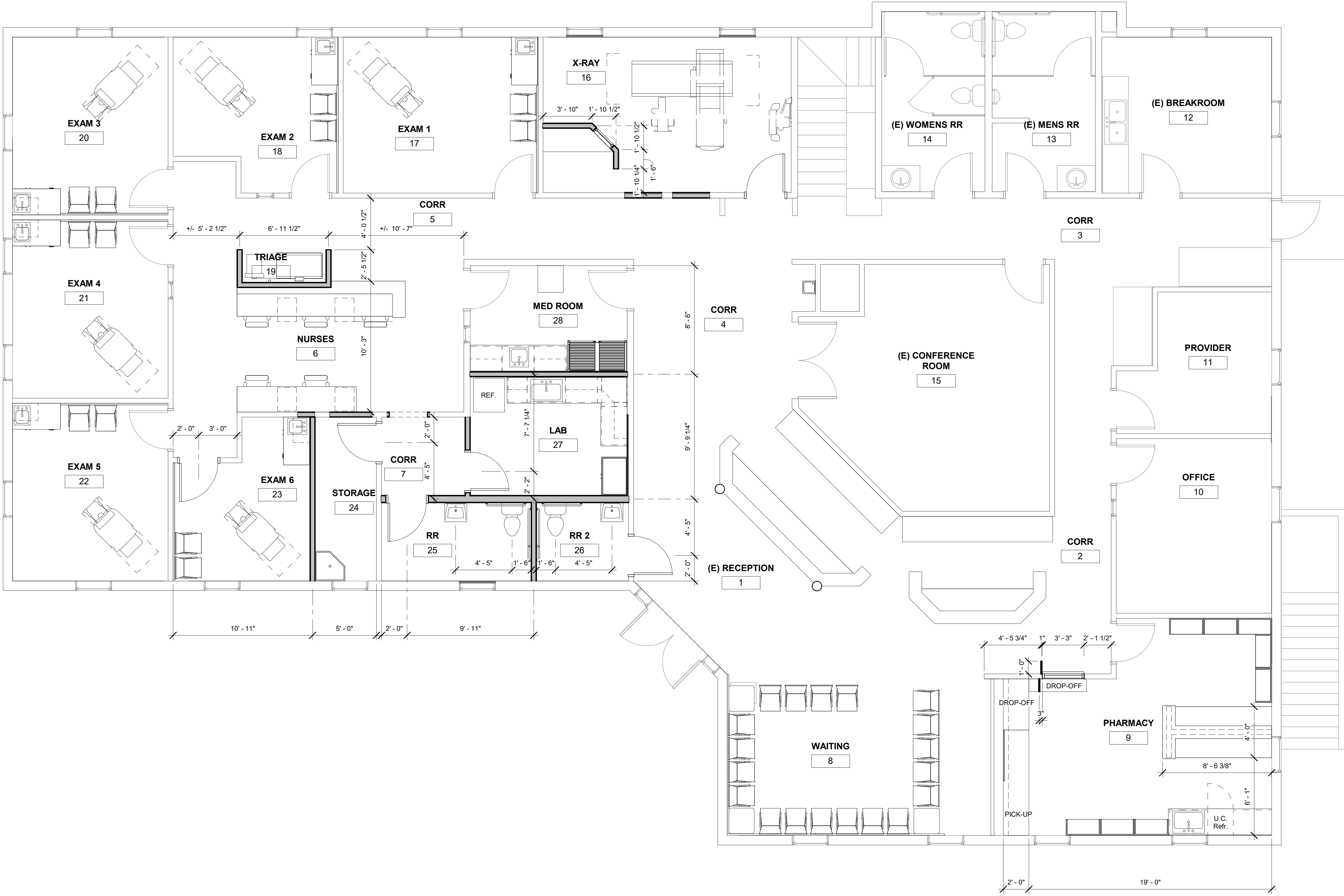
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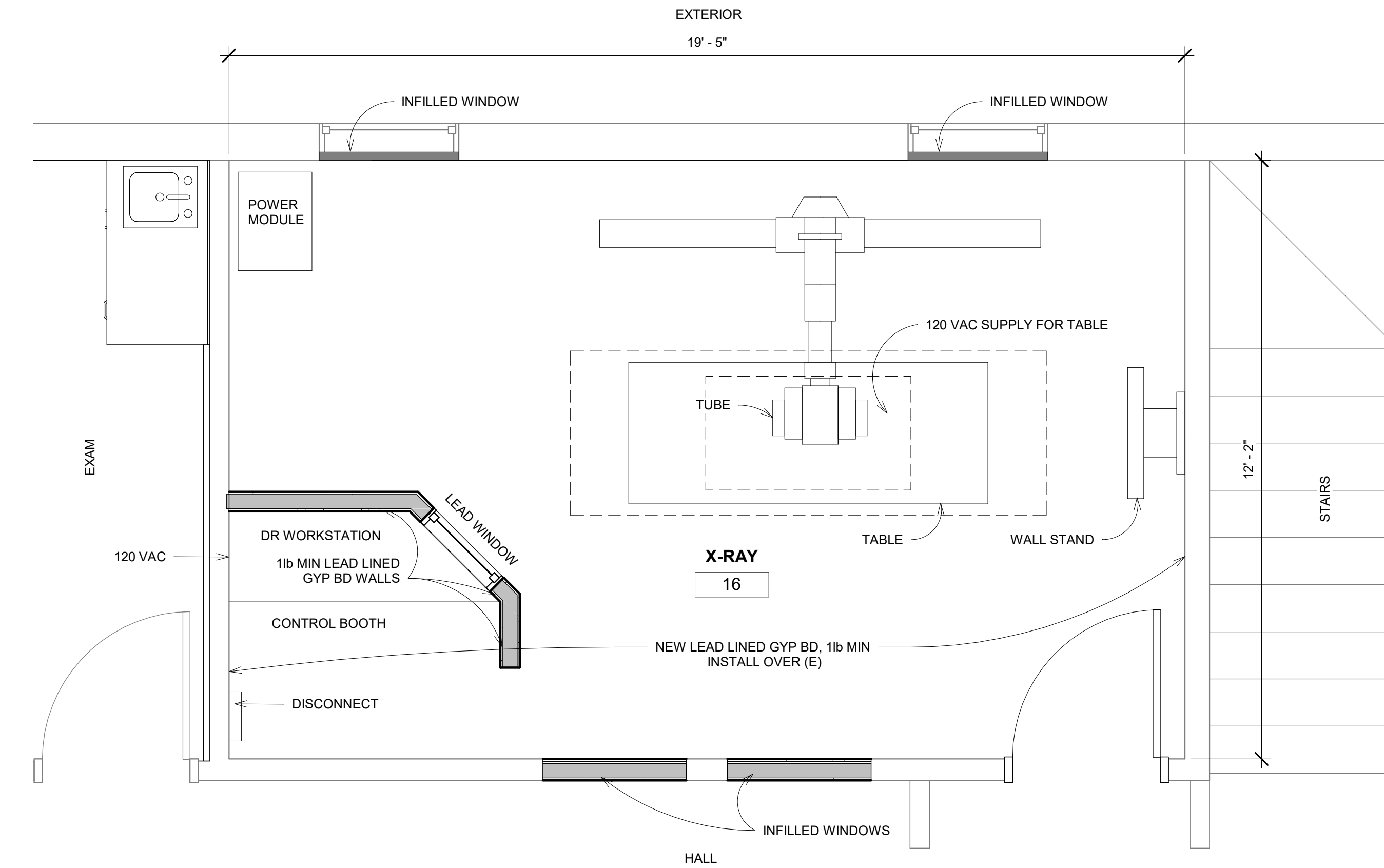


1 WALL TYPES  
1 1/2" = 1'-0"

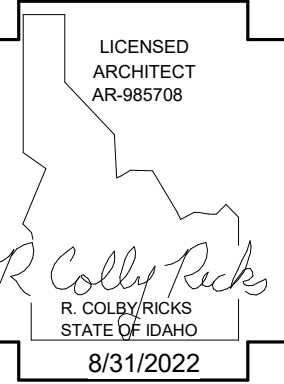
2 NEW FLOOR PLAN/WALL TYPES  
1/4" = 1'-0"



1 DIMENSION FLOOR PLAN  
1/4" = 1'-0"



① X-RAY ROOM LAYOUT  
1/2" = 1'-0"



DATE: \_\_\_\_\_

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**X-RAY ROOM LAYOUT**

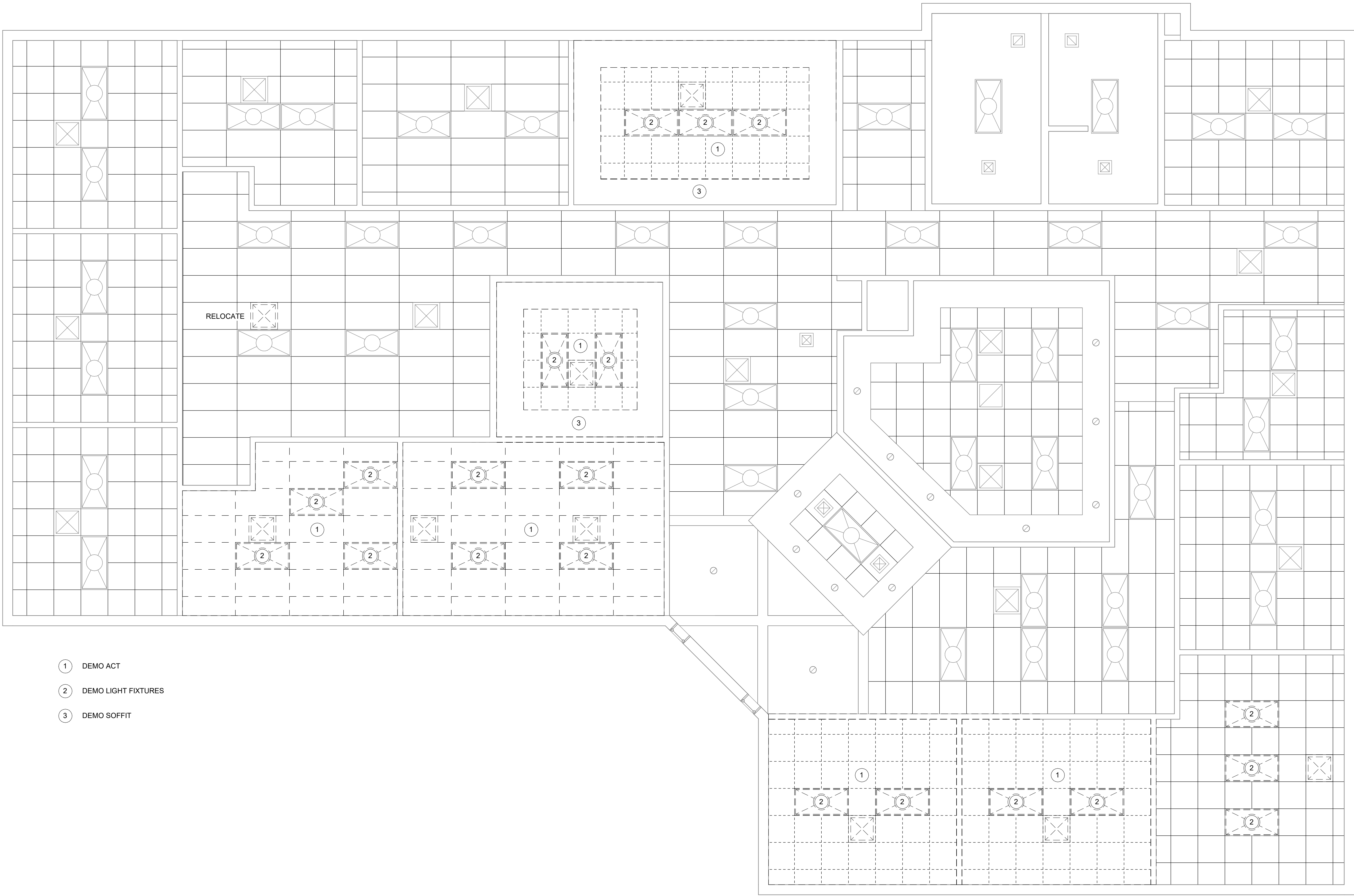
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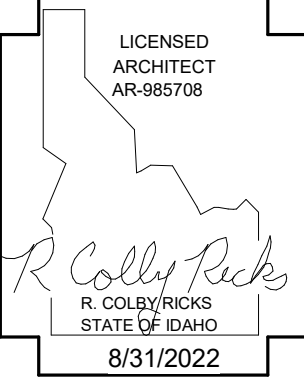
NM RCR  
Drawn Checked

**A2-3**

GENERAL NOTES:  
1. REFER TO ELECTRICAL & MECHANICAL FOR ADDITIONAL DEMOLITION REQUIREMENTS



1 DEMO CEILING  
1/4" = 1'-0"



DATE \_\_\_\_\_

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A REMODEL FOR:  
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DEMO CEILING PLAN

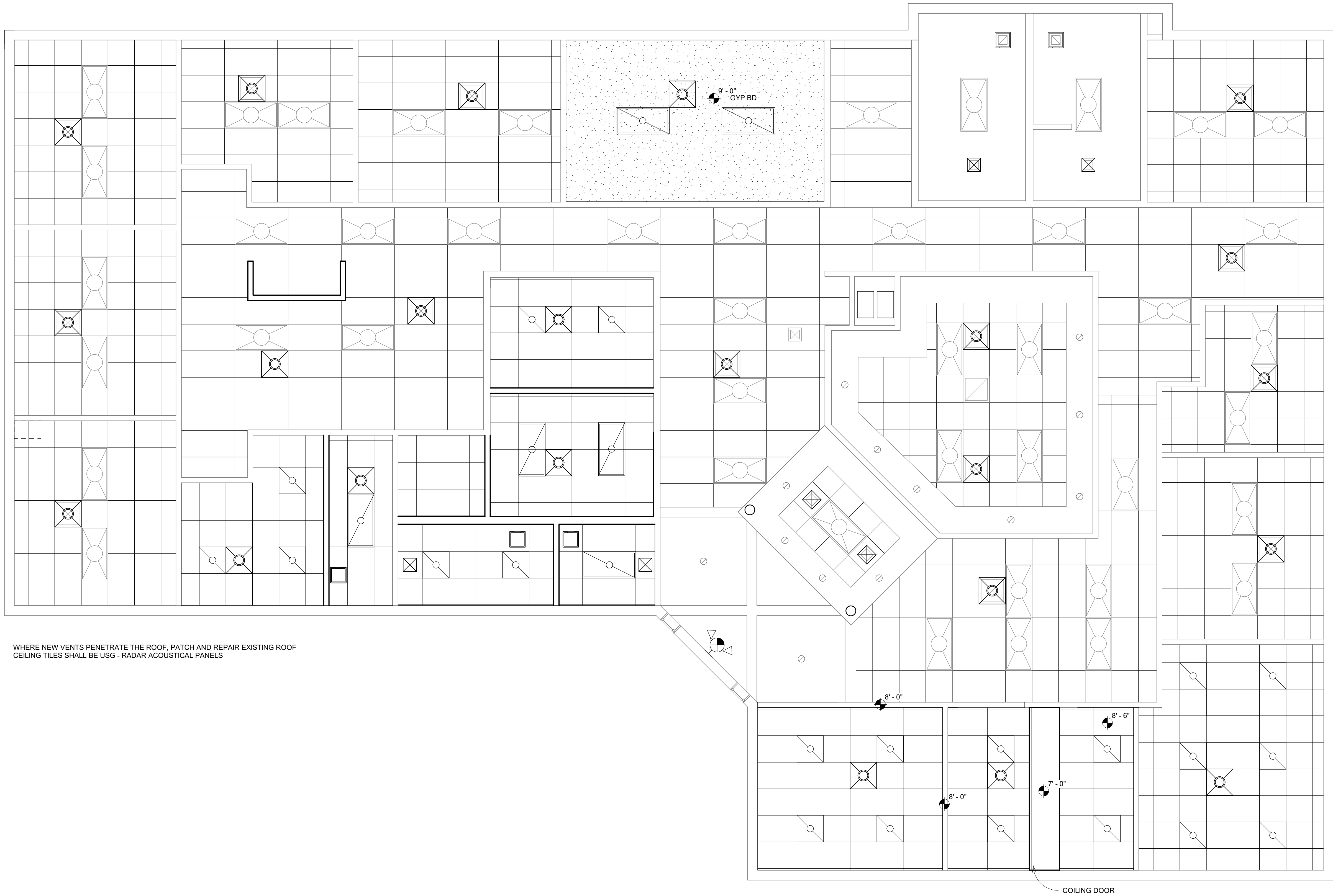
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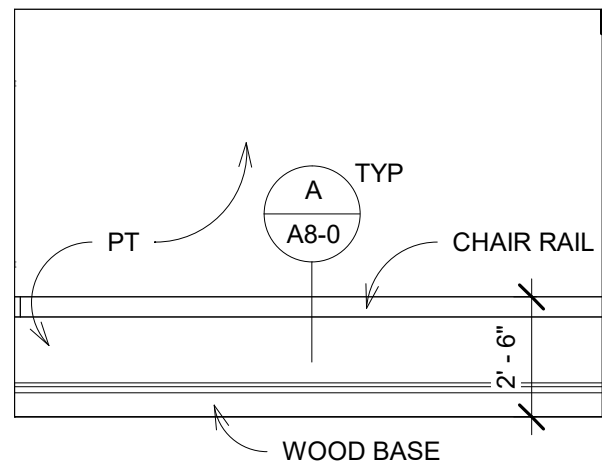
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A7-0

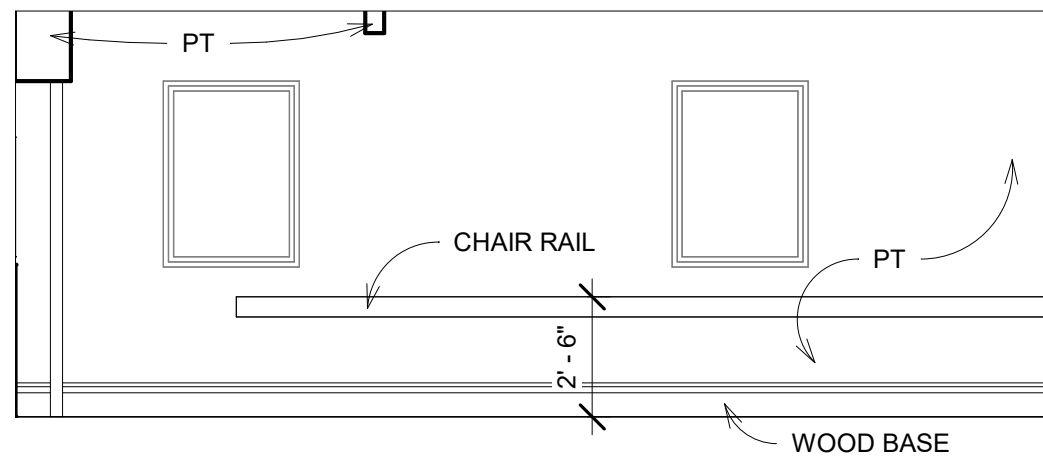




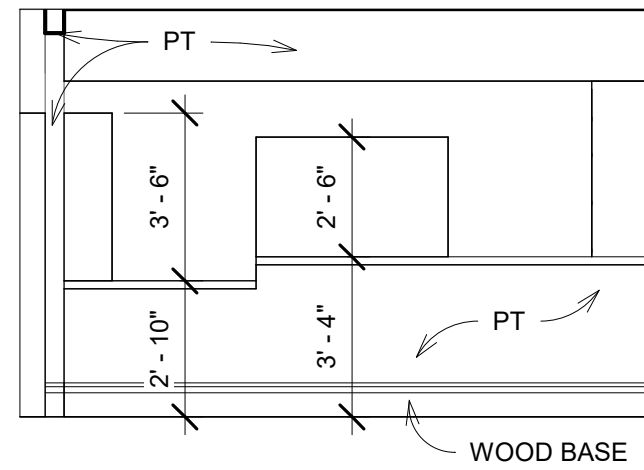
1 NEW CEILING PLAN  
1/4" = 1'-0"



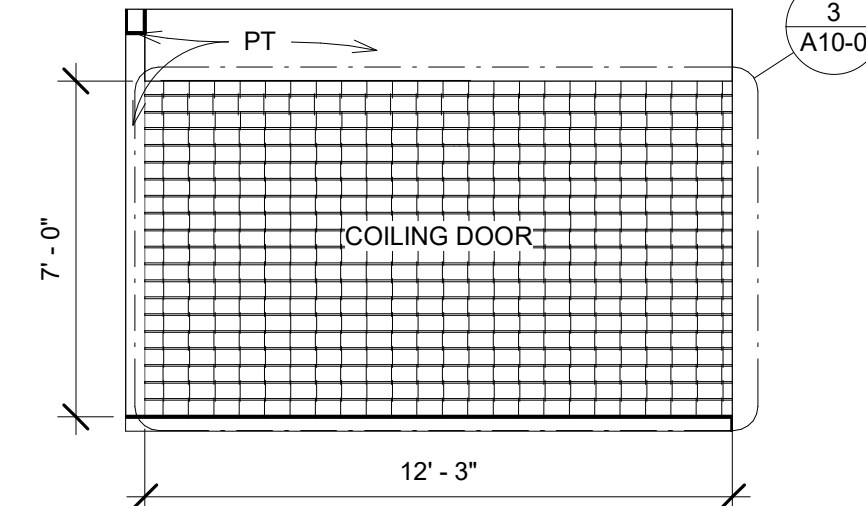
1 WAITING 1  
1/4" = 1'-0"



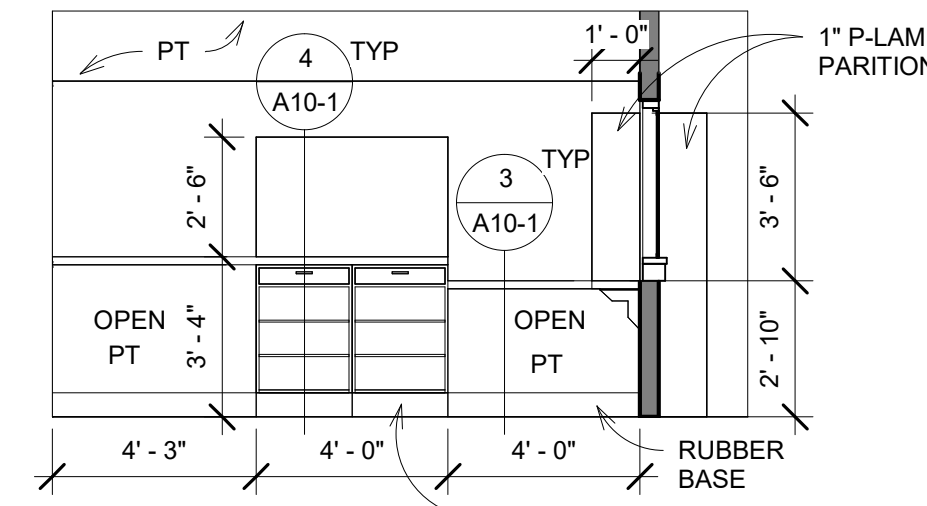
2 WAITING 2  
1/4" = 1'-0"



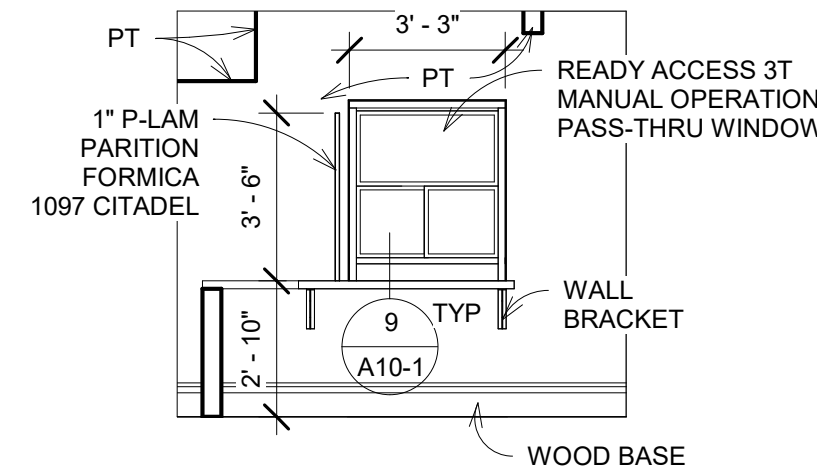
3A WAITING 3A  
1/4" = 1'-0"



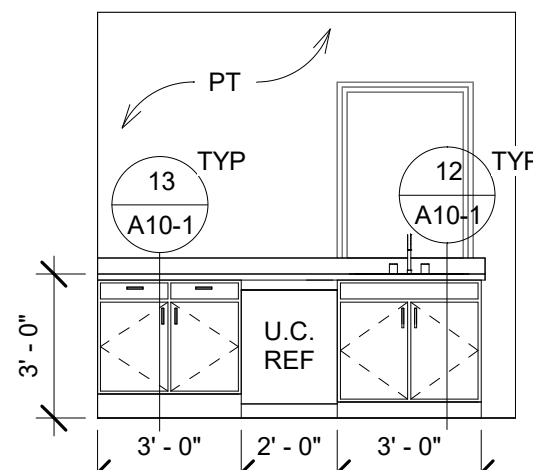
3B PHARMACY COILING DOOR  
1/4" = 1'-0"



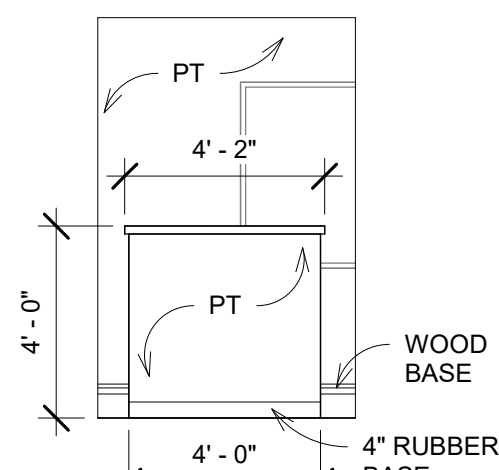
4 PHARMACY 1  
1/4" = 1'-0"



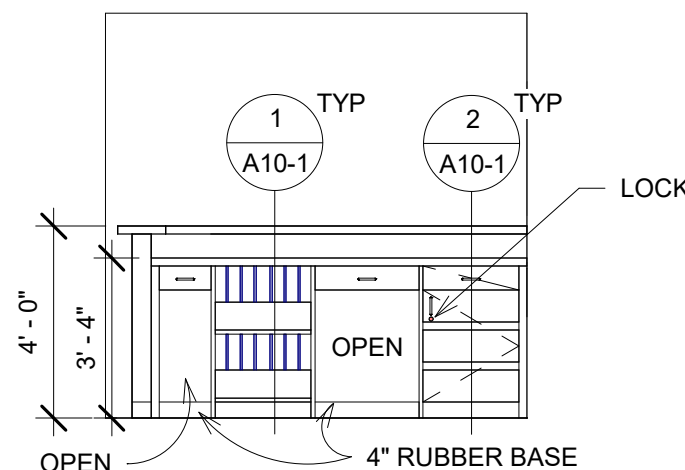
5 PHARMACY 2  
1/4" = 1'-0"



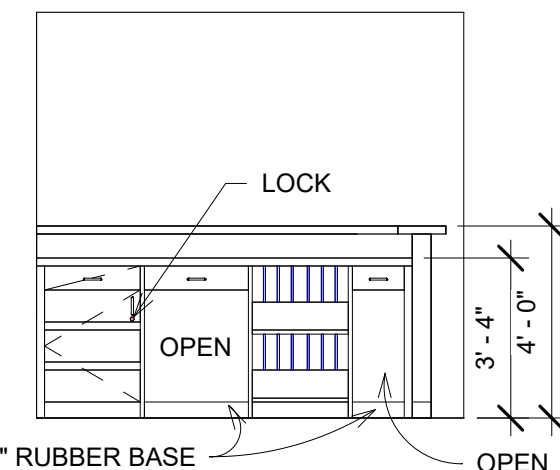
6 PHARMACY 3  
1/4" = 1'-0"



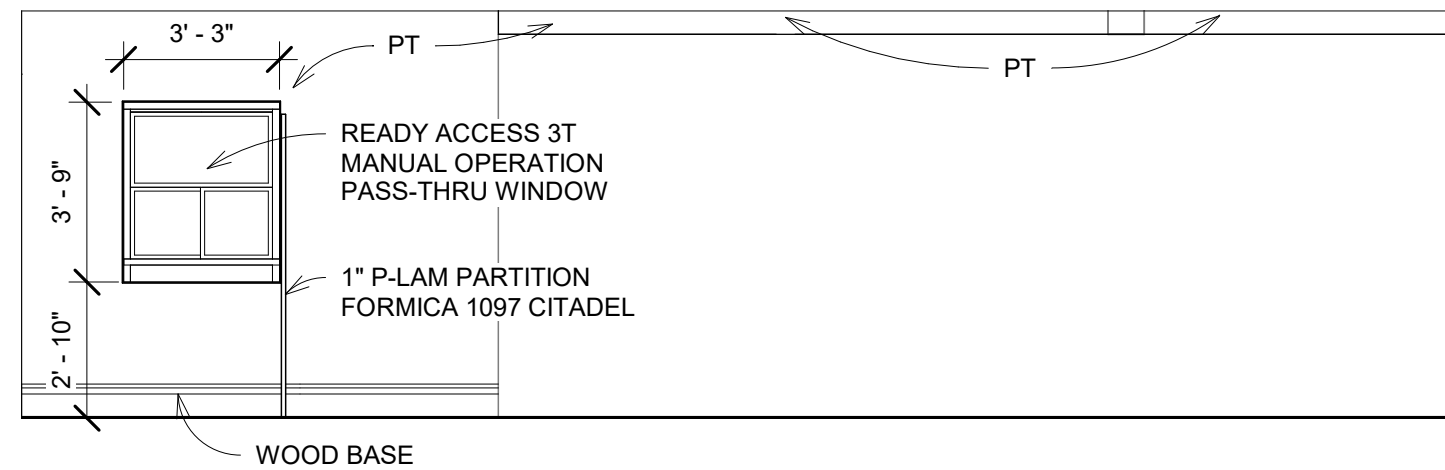
7 PHARMACY 4  
1/4" = 1'-0"



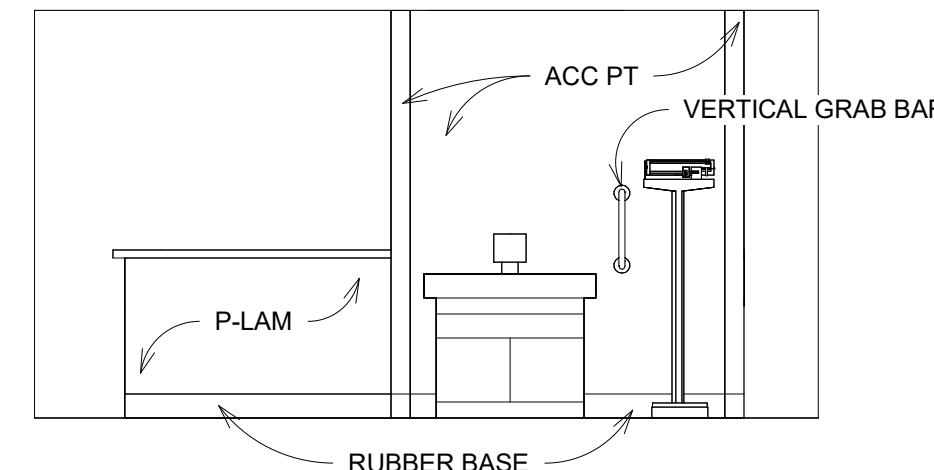
8 PHARMACY 5  
1/4" = 1'-0"



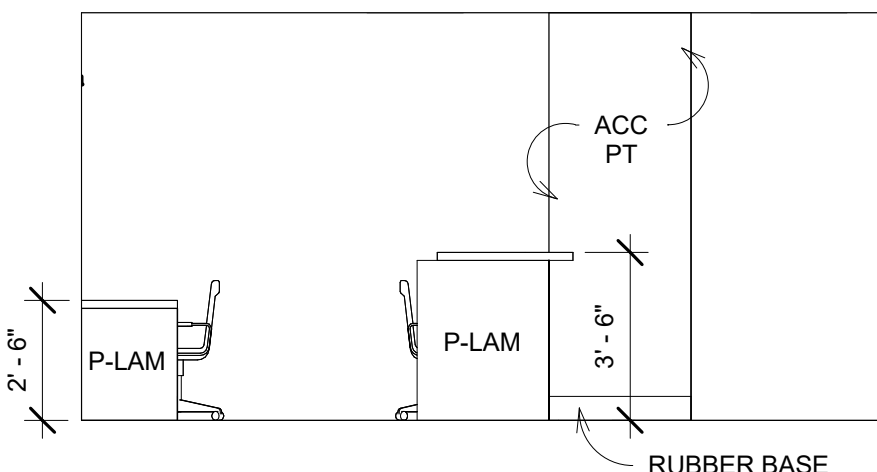
9 PHARMACY 6  
1/4" = 1'-0"



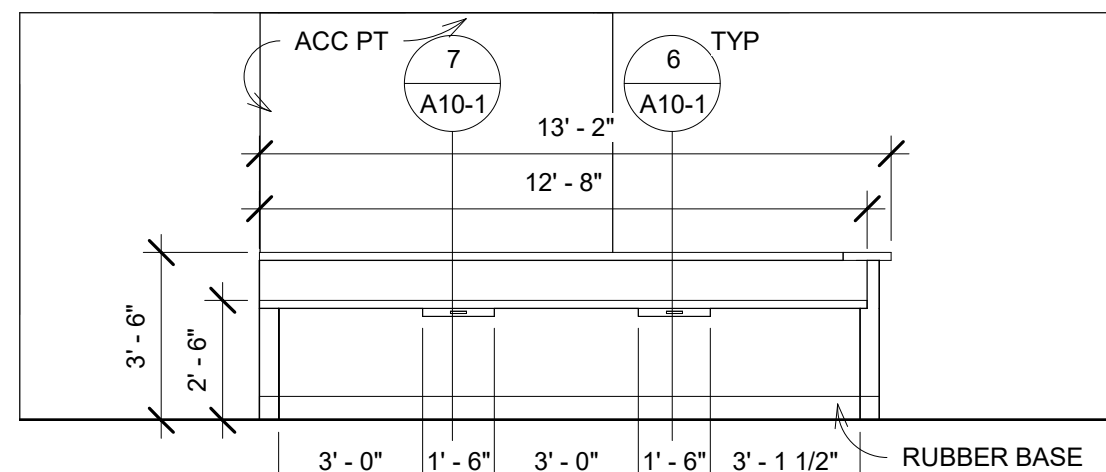
10 PHARMACY WINDOW  
1/4" = 1'-0"



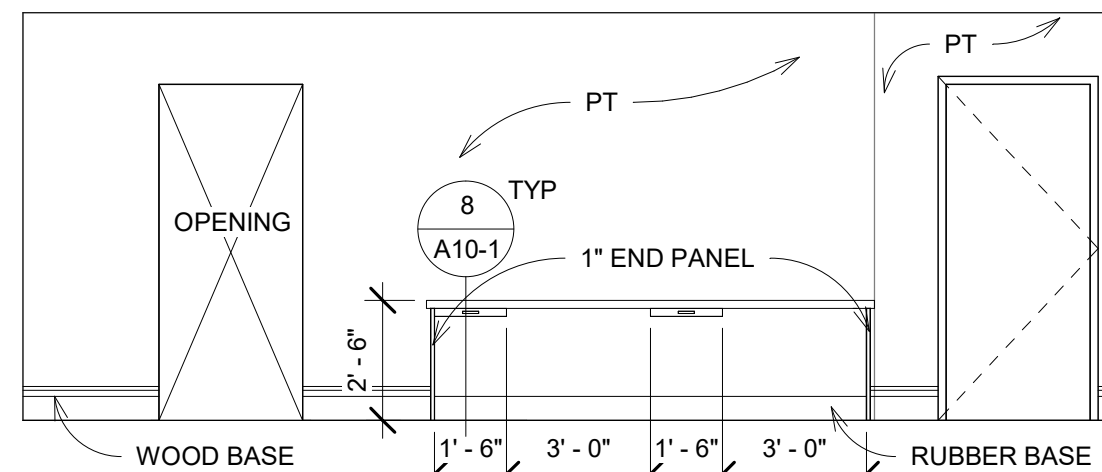
11 TRIAGE  
1/4" = 1'-0"



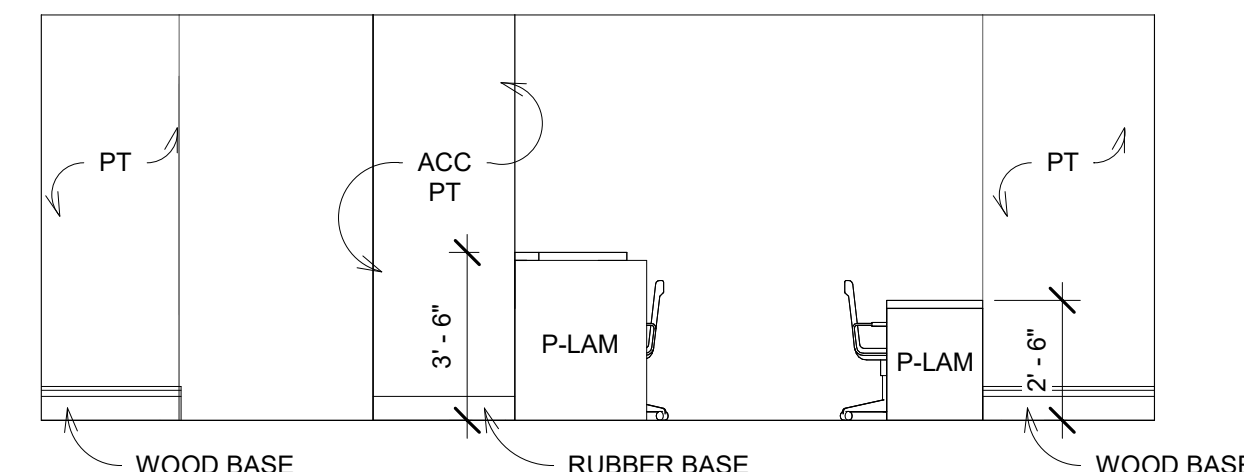
12 NURSE 1  
1/4" = 1'-0"



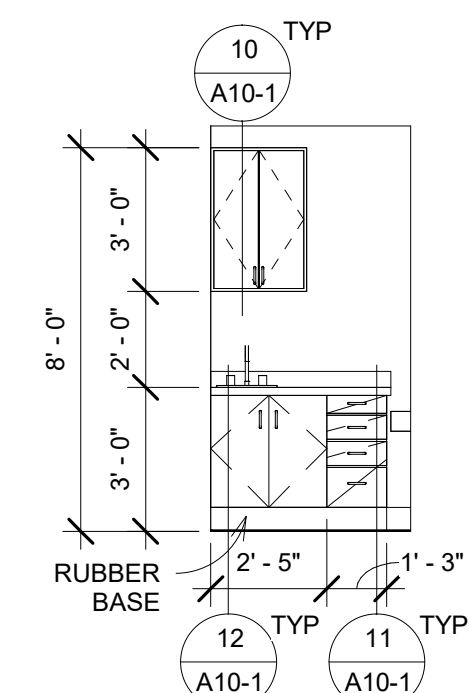
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1/4" = 1'-0"



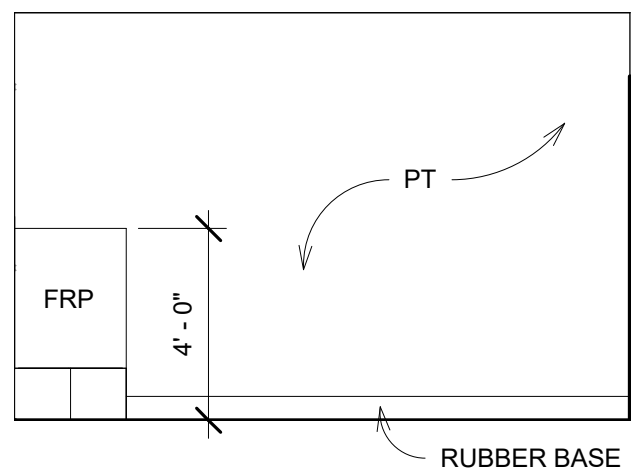
14 NURSES 3  
1/4" = 1'-0"



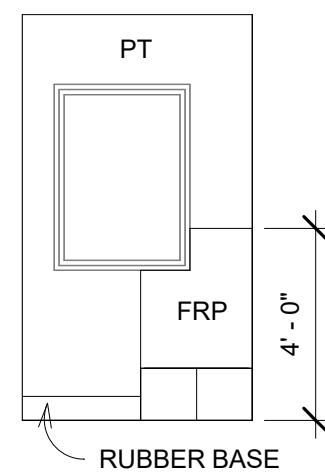
15 NURSES 4  
1/4" = 1'-0"



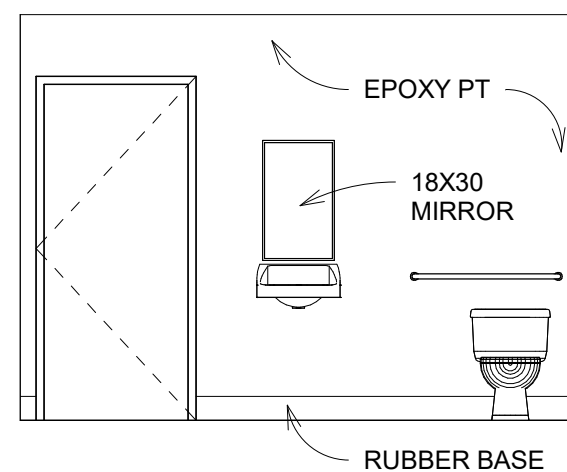
16 TYP EXAM CASEWORK  
1/4" = 1'-0"



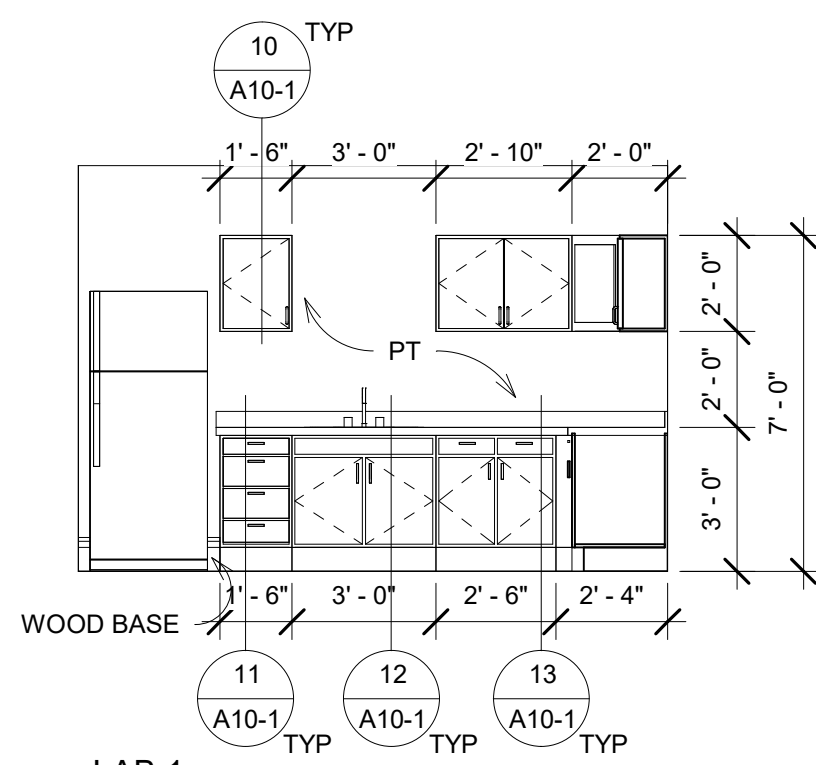
17 STORAGE 1  
1/4" = 1'-0"



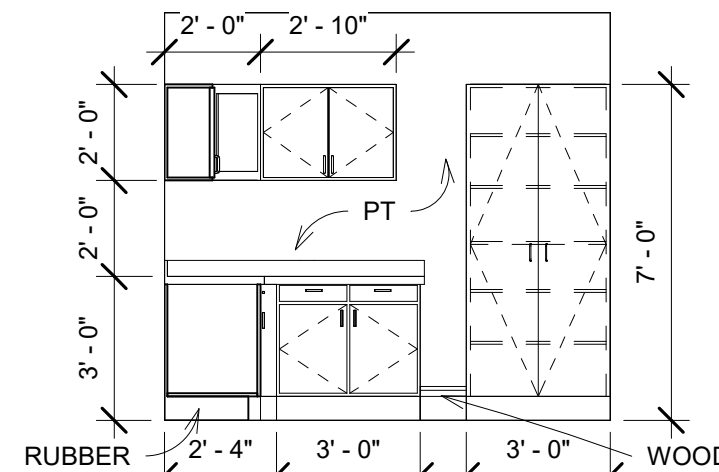
18 STORAGE 2  
1/4" = 1'-0"



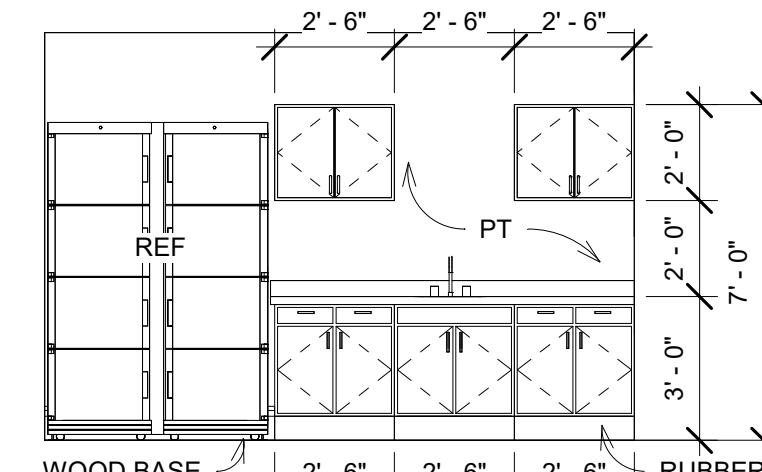
19 RR WALL  
1/4" = 1'-0"



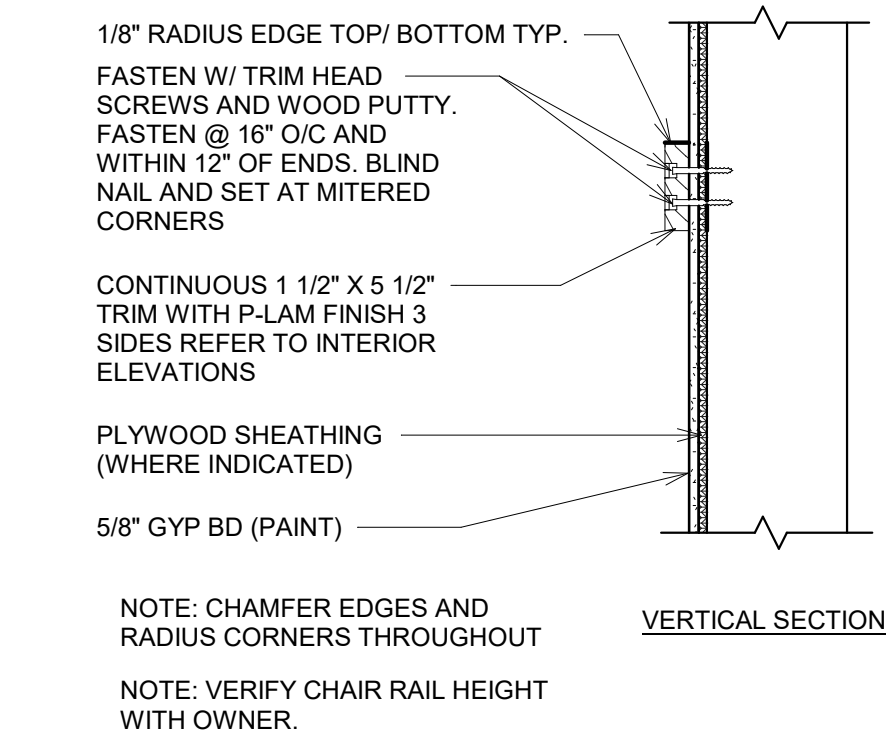
20 LAB 1  
1/4" = 1'-0"



21 LAB 2  
1/4" = 1'-0"



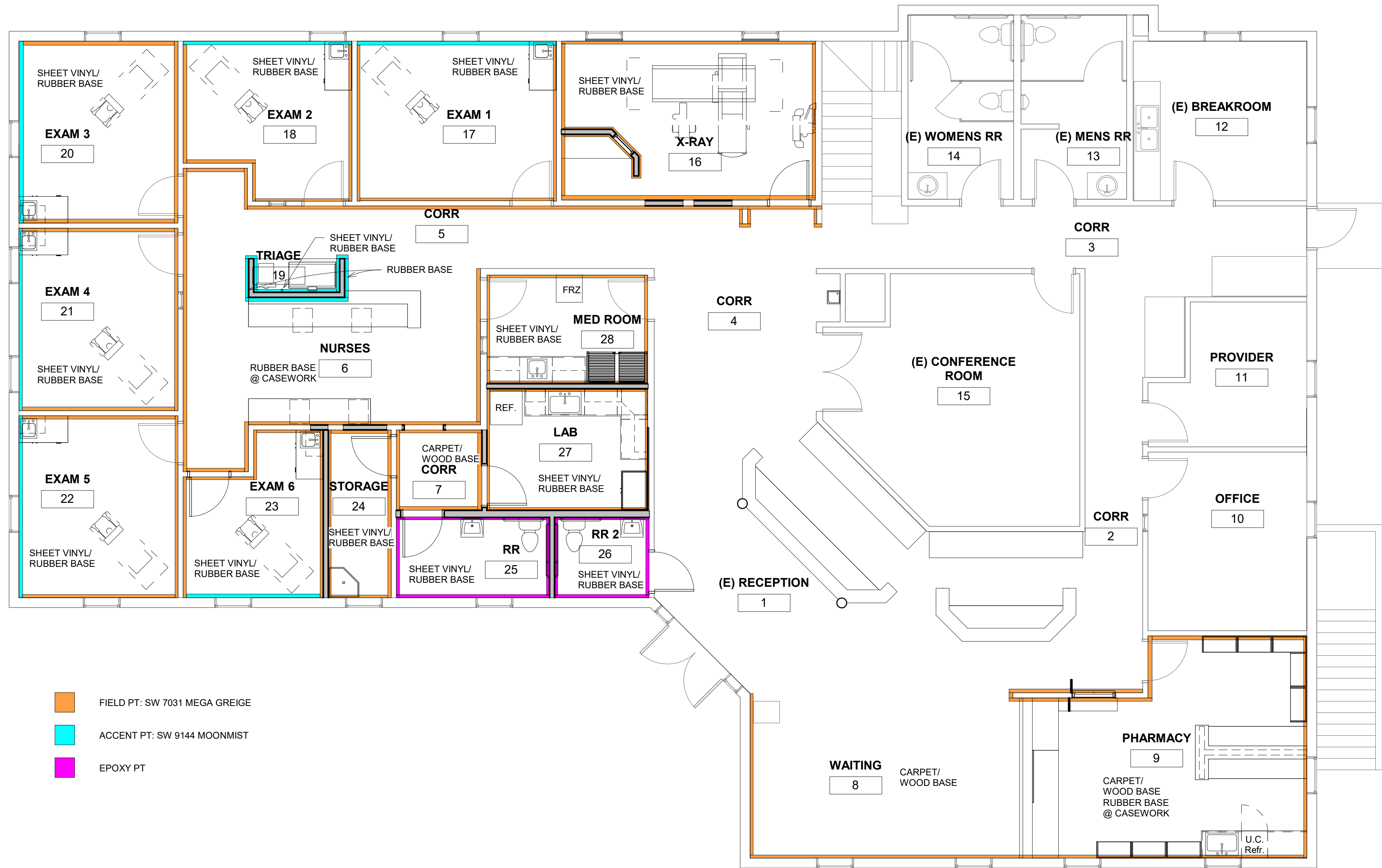
22 MED ROOM  
1/4" = 1'-0"



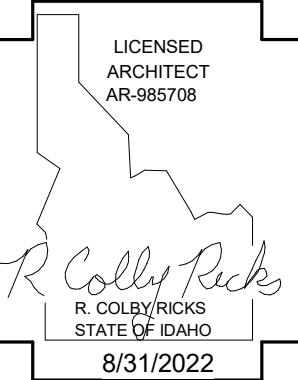
23 WOOD CHAIR RAIL DETAIL  
1" = 1'-0"

Room Finish Schedule														
Number	Name	Base Finish	Floor Finish	Materials				Finishes				Ceiling Material	Ceiling Finish	Remarks
				North	East	South	West	North	East	South	West			
1	(E) RECEPTION	(E) WOOD	(E) TILE	-	-	-	-	-	-	-	-	-	-	REUSE (E) WOOD BASE AS NEEDED, REFER TO PAINT FINISH PLAN
2	CORR	(E) WOOD	(E) CPT	-	-	-	-	-	-	PT	-	-	-	REUSE (E) WOOD BASE AS NEEDED, REFER TO PAINT FINISH PLAN
4	CORR	(E) WOOD	(E) CPT	-	-	-	-	-	-	-	-	-	-	REUSE (E) WOOD BASE AS NEEDED, REFER TO PAINT FINISH PLAN
5	CORR	(E) WOOD	(E) CPT	-	-	-	-	-	-	-	-	-	-	REUSE (E) WOOD BASE AS NEEDED, REFER TO PAINT FINISH PLAN
6	NURSES	6" RUBBER	(E) CPT	-	-	-	-	ACC PT	PT	PT	PT	-	-	
7	CORR	(E) WOOD	(E) CPT	GYP BD	GYP BD	GYP BD	GYP BD	PT	PT	PT	PT	2X4 ACT	FF	REUSE (E) WOOD BASE AS NEEDED, FILL IN CARPET TILES WHERE NEEDED
8	WAITING	(E) WOOD	(E) CPT	GYP BD	GYP BD	GYP BD	GYP BD	PT	PT	PT	PT	2X2 ACT/GYP BD	FF/PT	REUSE (E) WOOD BASE AS NEEDED, FILL IN CARPET TILES WHERE NEEDED
9	PHARMACY	(E) WOOD/ 6" RUBBER	(E) CPT	GYP BD	GYP BD	GYP BD	GYP BD	PT	PT	PT	PT	2X2 ACT/GYP BD	FF/PT	REUSE (E) WOOD BASE AS NEEDED, FILL IN CARPET TILES WHERE NEEDED, RUBBER BASE IS 6" U.N.O.
16	X-RAY	6" RUBBER	SHEET VINYL	GYP BD	LEAD LINED GYP BD	GYP BD	LEAD LINED GYP BD	PT	PT	PT	PT	GYP BD	PT	MIN 1lb LEAD LINED GYP MD
17	EXAM 1	6" RUBBER	SHEET VINYL	GYP BD	GYP BD	GYP BD	GYP BD	ACC PT	PT	PT	PT	-	-	
18	EXAM 2	6" RUBBER	SHEET VINYL	GYP BD	GYP BD	GYP BD	GYP BD	ACC PT	PT	PT	PT	-	-	
19	TRIAGE	6" RUBBER	SHEET VINYL	GYP BD	GYP BD	GYP BD	GYP BD	ACC PT	ACC PT	ACC PT	ACC PT	-	-	PT ALL WALLS
20	EXAM 3	6" RUBBER	SHEET VINYL	GYP BD	GYP BD	GYP BD	GYP BD	PT	PT	PT	ACC PT	-	-	
21	EXAM 4	6" RUBBER	SHEET VINYL	GYP BD	GYP BD	GYP BD	GYP BD	PT	PT	PT	ACC PT	-	-	
22	EXAM 5	6" RUBBER	SHEET VINYL	GYP BD	GYP BD	GYP BD	GYP BD	PT	PT	PT	ACC PT	-	-	
23	EXAM 6	6" RUBBER	SHEET VINYL	GYP BD	GYP BD	GYP BD	GYP BD	PT	PT	ACC PT	PT	2X2 ACT/GYP BD	FF	
24	STORAGE	6" RUBBER	SHEET VINYL	GYP BD	GYP BD	GYP BD	GYP BD	PT	PT	PT/FRP	PT/FRP	2X4 ACT	FF	FRP @ MOP SINK TO 4'-0"
25	RR	6" RUBBER	SHEET VINYL	GYP BD	GYP BD	GYP BD	GYP BD	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	2X4 ACT	FF	
26	RR 2	6" RUBBER	SHEET VINYL	GYP BD	GYP BD	GYP BD	GYP BD	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	2X4 ACT	FF	
27	LAB	6" RUBBER	SHEET VINYL	GYP BD	GYP BD	GYP BD	GYP BD	PT	PT	PT	PT	2X4 ACT	FF	
28	MED ROOM	6" RUBBER	SHEET VINYL	GYP BD	GYP BD	GYP BD	GYP BD	PT	PT	PT	PT	2X4 ACT	FF	

SHEET VINYL: AHF CONCEPTS OF LANDSCAPE, CONCRETE EFFECT TAUPE  
CEILING TILE: USG - RADAR ACOUSTICAL PANELS  
ALL RUBBER BASE @ CASEWORK SHALL BE 4"



1 PAINT FINISH PLAN  
3/16" = 1'-0"



DATE \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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A REMODEL FOR:  
FHS URGENT CARE  
260 3rd Ave N Twin Falls, ID 83301  
FINISH PLAN & SCHEDULE

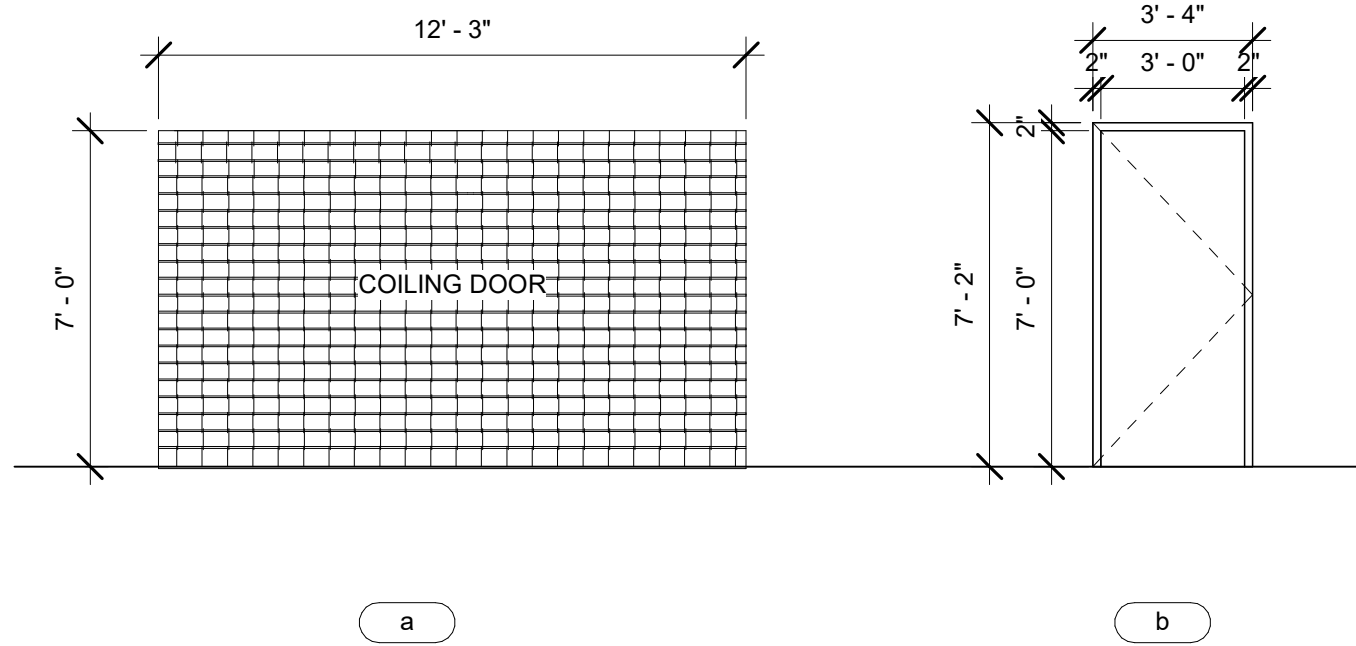
Laughlin Ricks Architecture  
architecture/planning  
134 3RD AVE. E. \* Twin Falls, Idaho 83301  
PHONE: (208) 736-8050

DATE: 8/31/2022

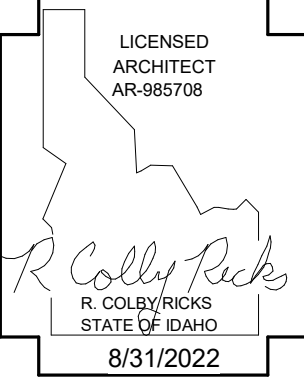
NM RCR  
Drawn Checked

A9-0

DOOR SCHEDULE											
Door Number	Elevation	Width	Height	Door Material	Door Finish	Frame Material	Frame Finish	Accessories	Door Glass	UL RATING	Comments
1	a	12' - 3"	8' - 6"	ALUMINUM	FF	ALUMINUM	FF	SLIDE BOLT, SENSING EDGE, ELECTRIC OPERATOR			
2	b	3' - 0"	7' - 0"	WOOD	STAIN	WOOD	STAIN	CLASSROOM			SC WOOD DOOR W/O RELIEF
3	b	3' - 0"	7' - 0"	WOOD	STAIN	WOOD	STAIN	CLASSROOM			(E) DOOR RELOCATED, MATCH (E) TRIM
4	b	3' - 0"	7' - 0"	WOOD	STAIN	WOOD	STAIN	STORAGE			MATCH (E) DOOR & TRIM
5	b	3' - 0"	7' - 0"	WOOD	STAIN	WOOD	STAIN	PRIVACY W/ INDICATOR			MATCH (E) DOOR & TRIM
6	b	3' - 0"	7' - 0"	WOOD	STAIN	WOOD	STAIN	PASSAGE			MATCH (E) DOOR & TRIM
7	b	3' - 0"	7' - 0"	WOOD	STAIN	WOOD	STAIN	PRIVACY W/ INDICATOR			MATCH (E) DOOR & TRIM



DOOR TYPES  
1/4" = 1'-0"



DATE

A REMODEL FOR:  
FHS URGENT CARE  
260 3rd Ave N Twin Falls, ID 83301

DOOR SCHEDULE & TYPES

Laughlin Ricks Architecture

architecture/planning

134 3RD AVE. E. \* Twin Falls, Idaho 83301

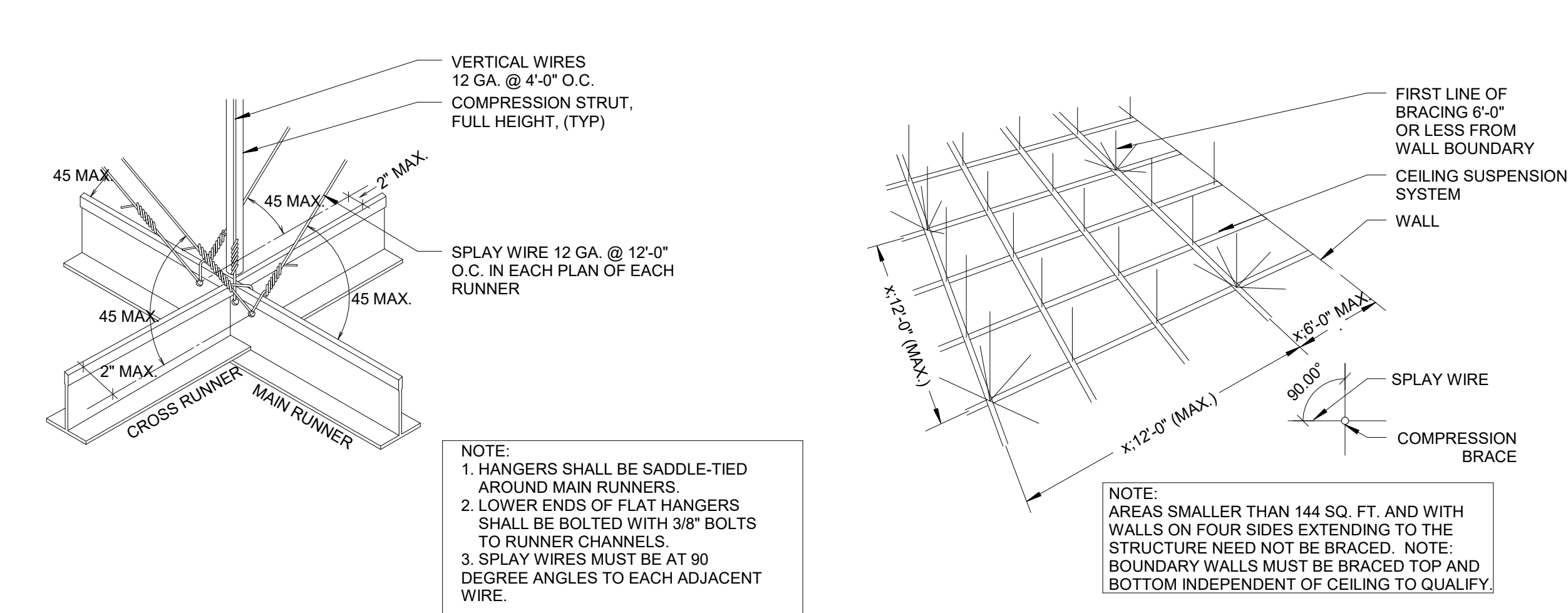
PHONE: (208) 736-8050

DATE: 8/31/2022

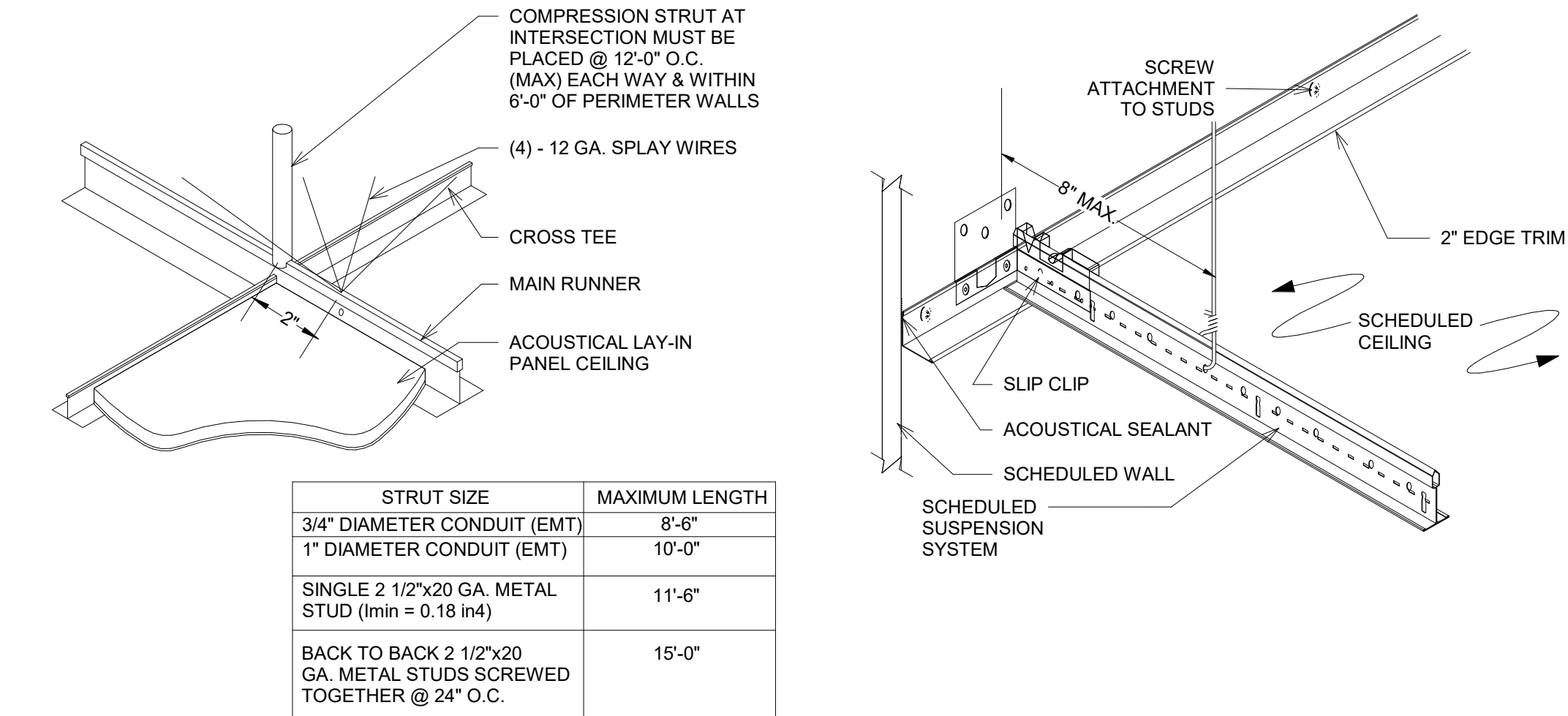
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Drawn Checked

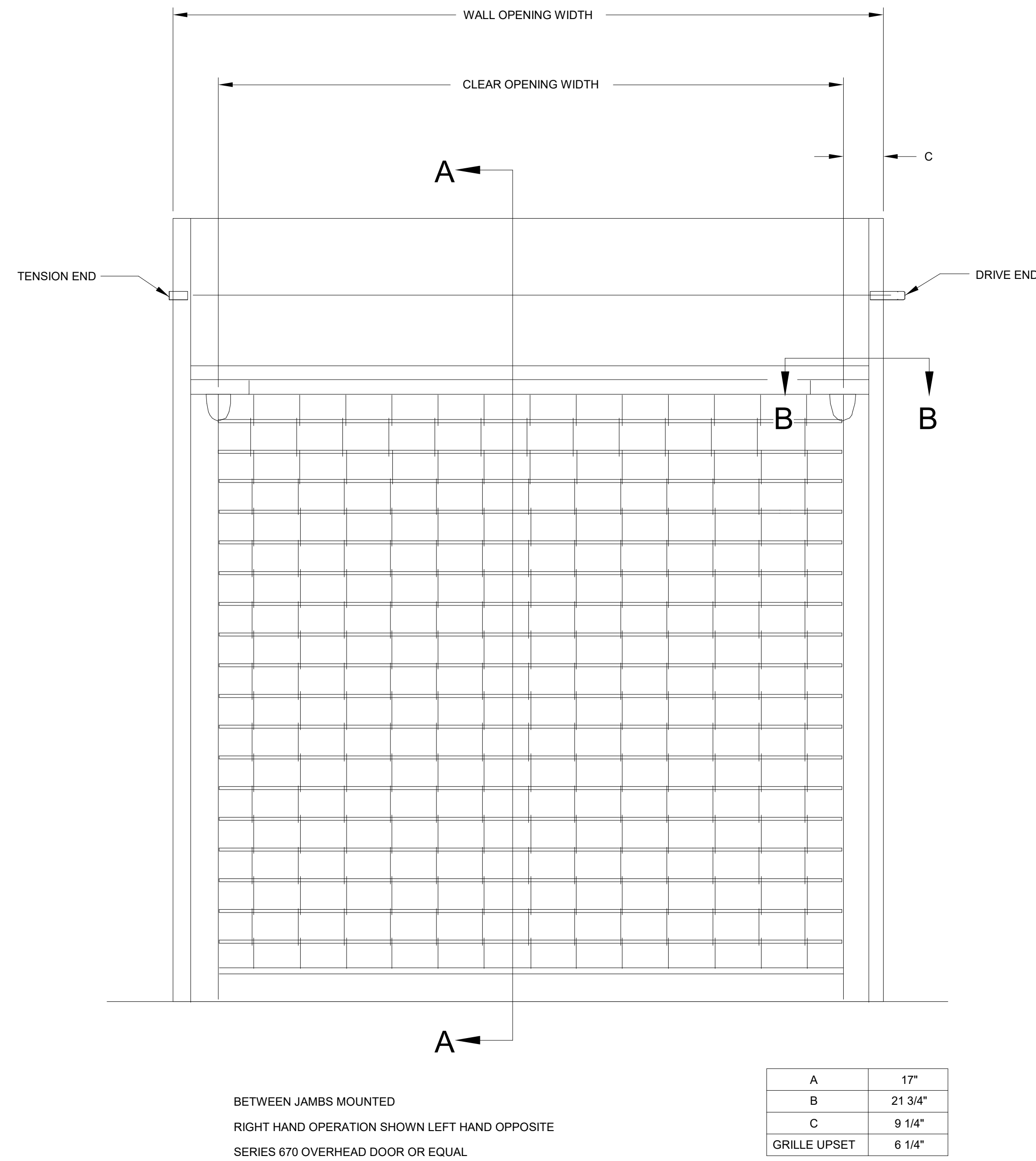




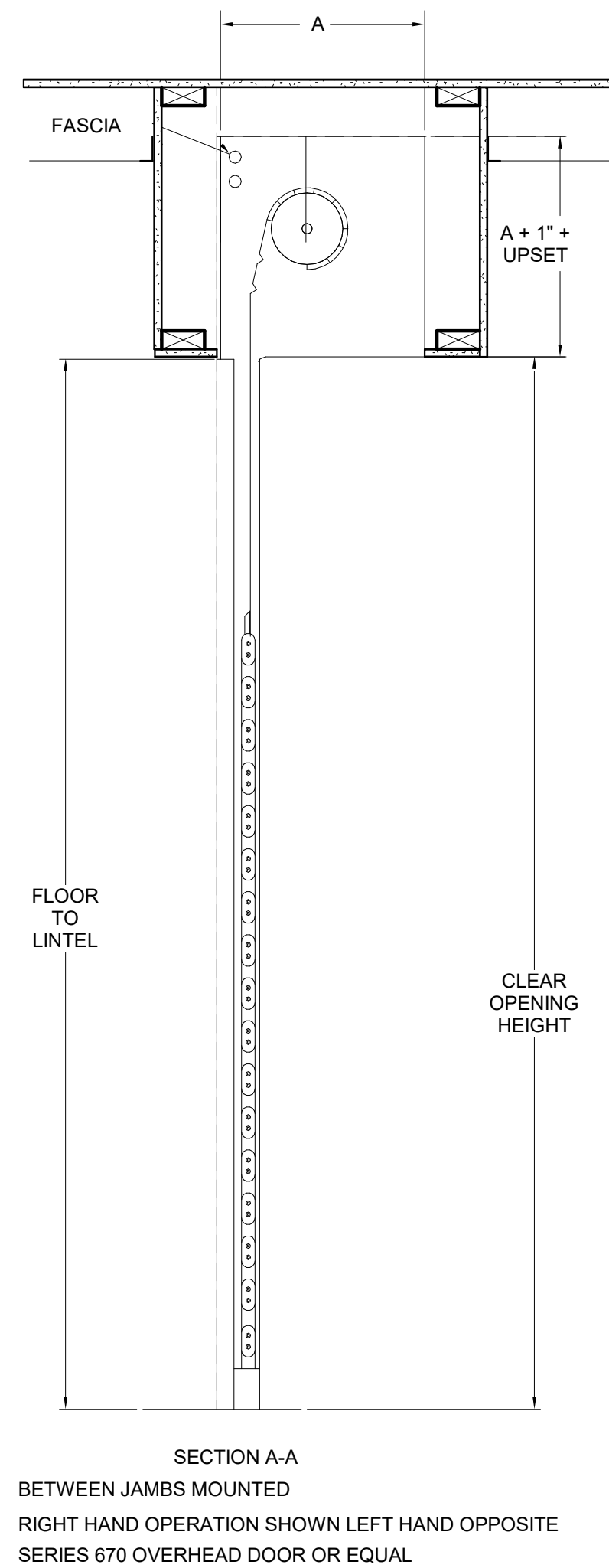
1 CEILING DETAILS  
1" = 1'-0"



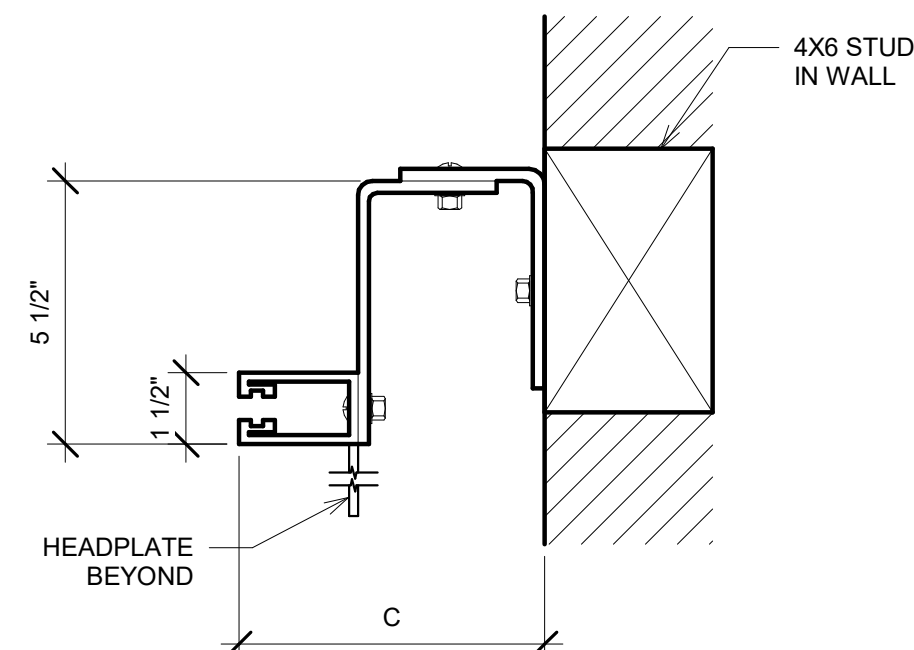
2 CEILING GRID DETAILS  
3" = 1'-0"



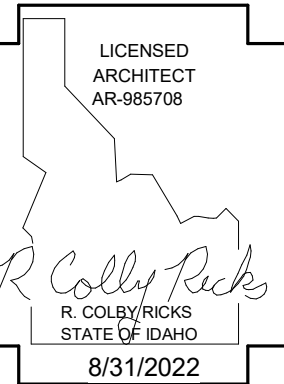
3 COILING DOOR FRONT VIEW  
1" = 1'-0"



4 COILING DOOR SECTION A  
1" = 1'-0"



5 COILING DOOR SECTION B  
3" = 1'-0"



DATE \_\_\_\_\_

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A REMODEL FOR:  
**FHS URGENT CARE**  
260 3rd Ave N Twin Falls, ID 83301  
**COILING DOOR & CEILING DETAILS**

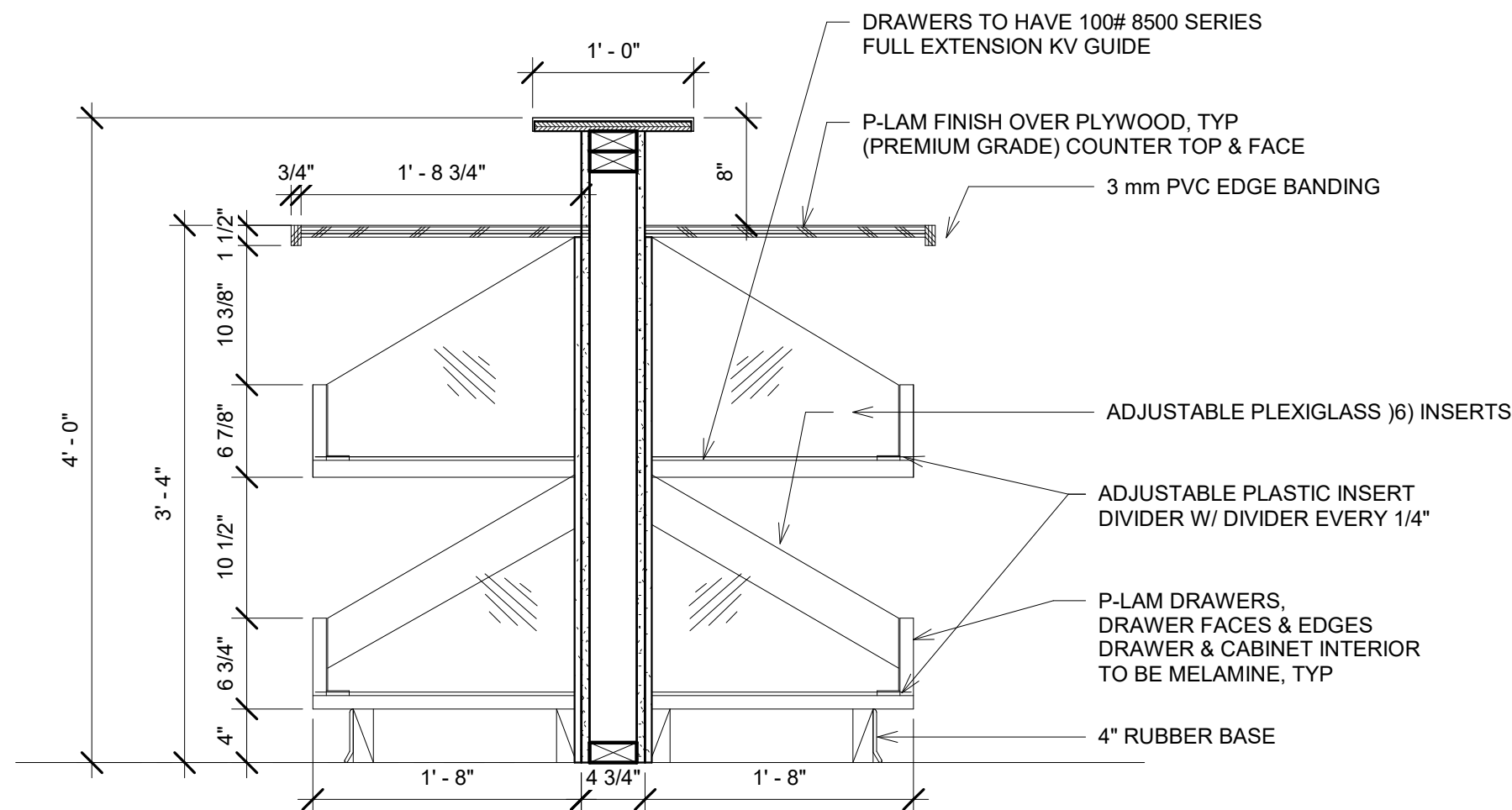
**Laughlin Ricks Architecture**  
—architecture/planning—  
134 3RD AVE. E. \* Twin Falls, Idaho 83301  
PHONE: (208) 736-8050

DATE: 8/31/2022

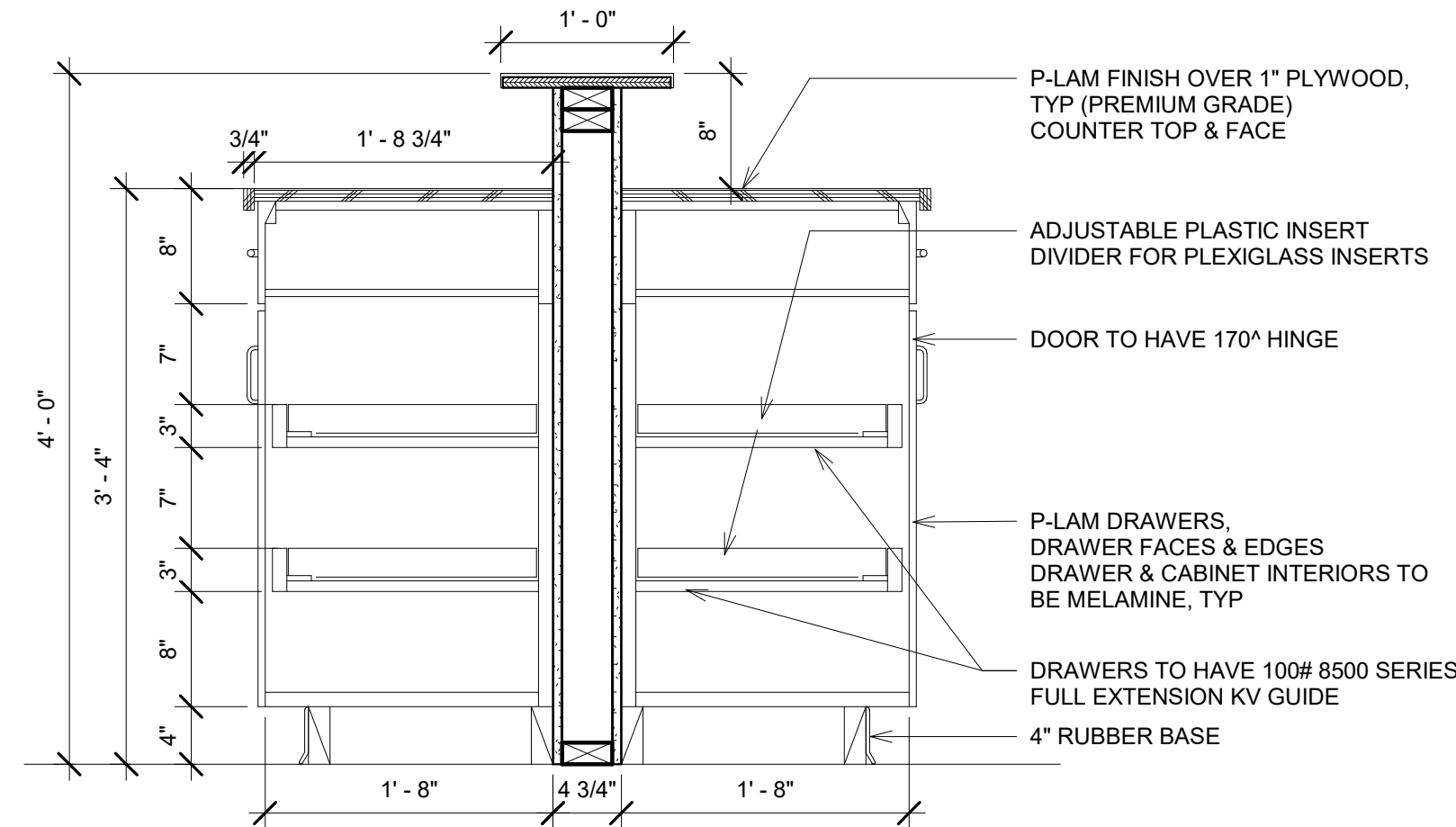
NM RCR  
Drawn Checked

**A10-0**

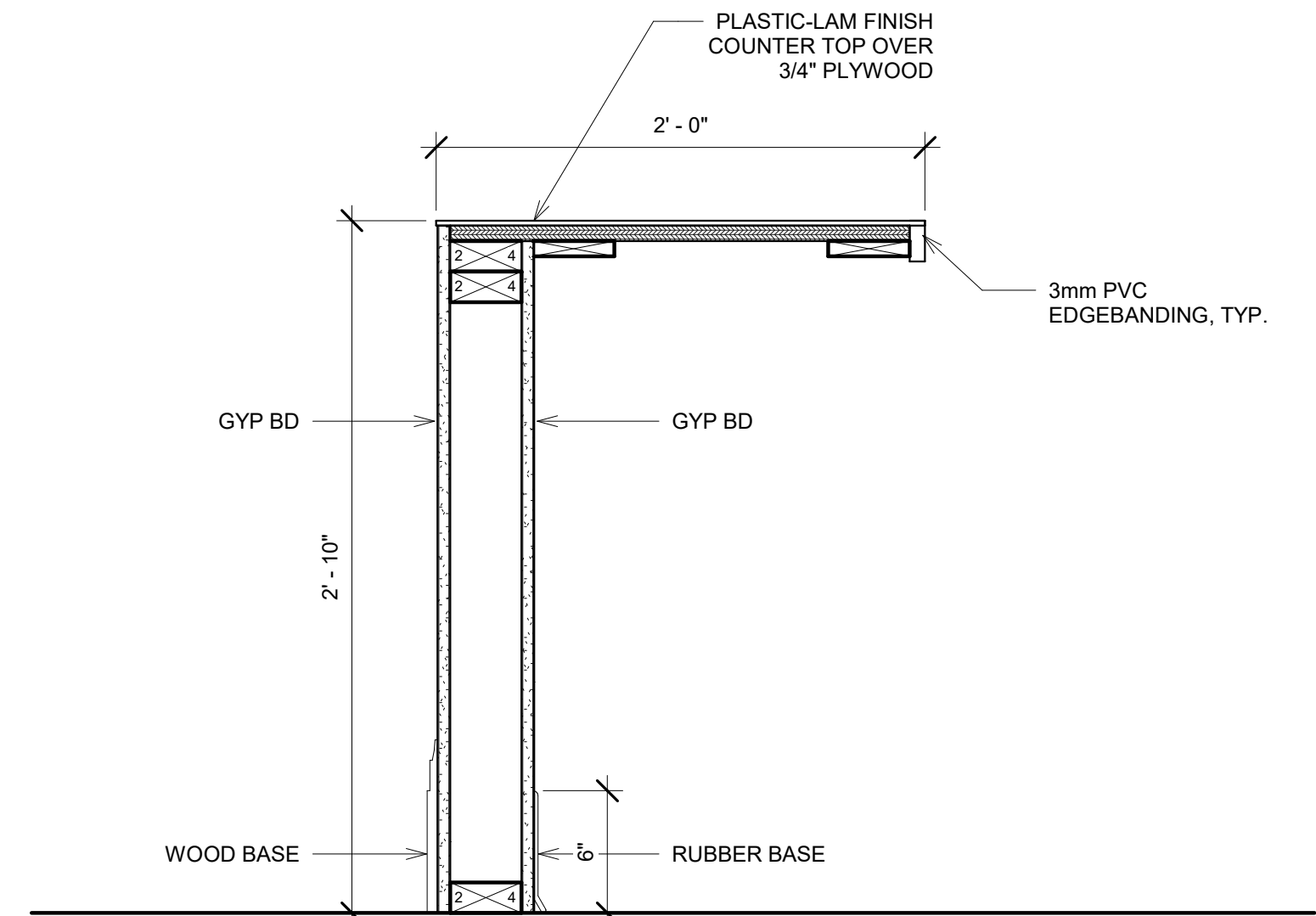
ALL CABINET P-LAM: FORMICA 1097 CITADEL  
ALL COUNTERTOP P-LAM: FORMICA 9529 SEA SALT



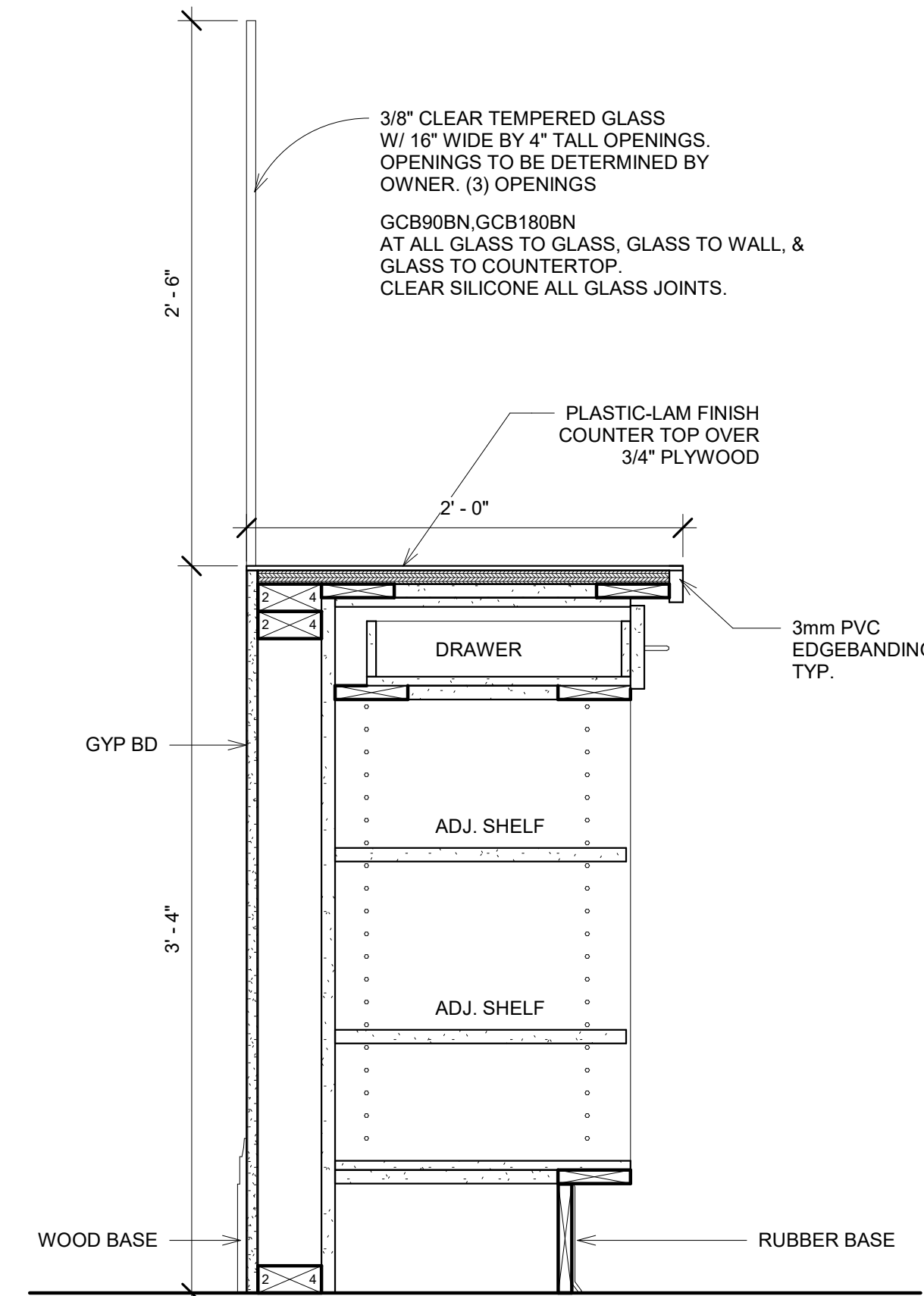
① PHARMACY CASEWORK 1  
1" = 1'-0"



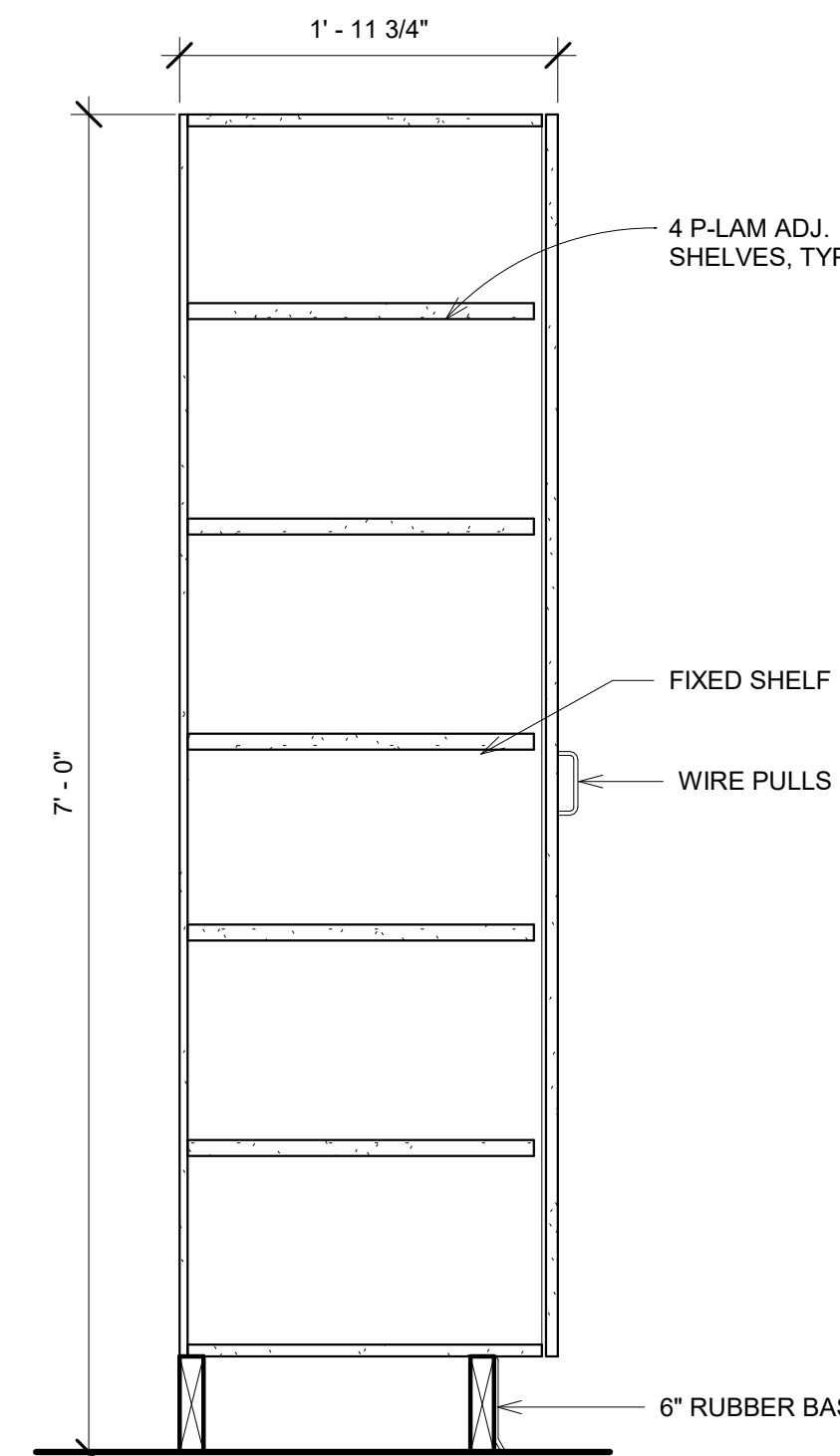
② PHARMACY CASEWORK 2  
1" = 1'-0"



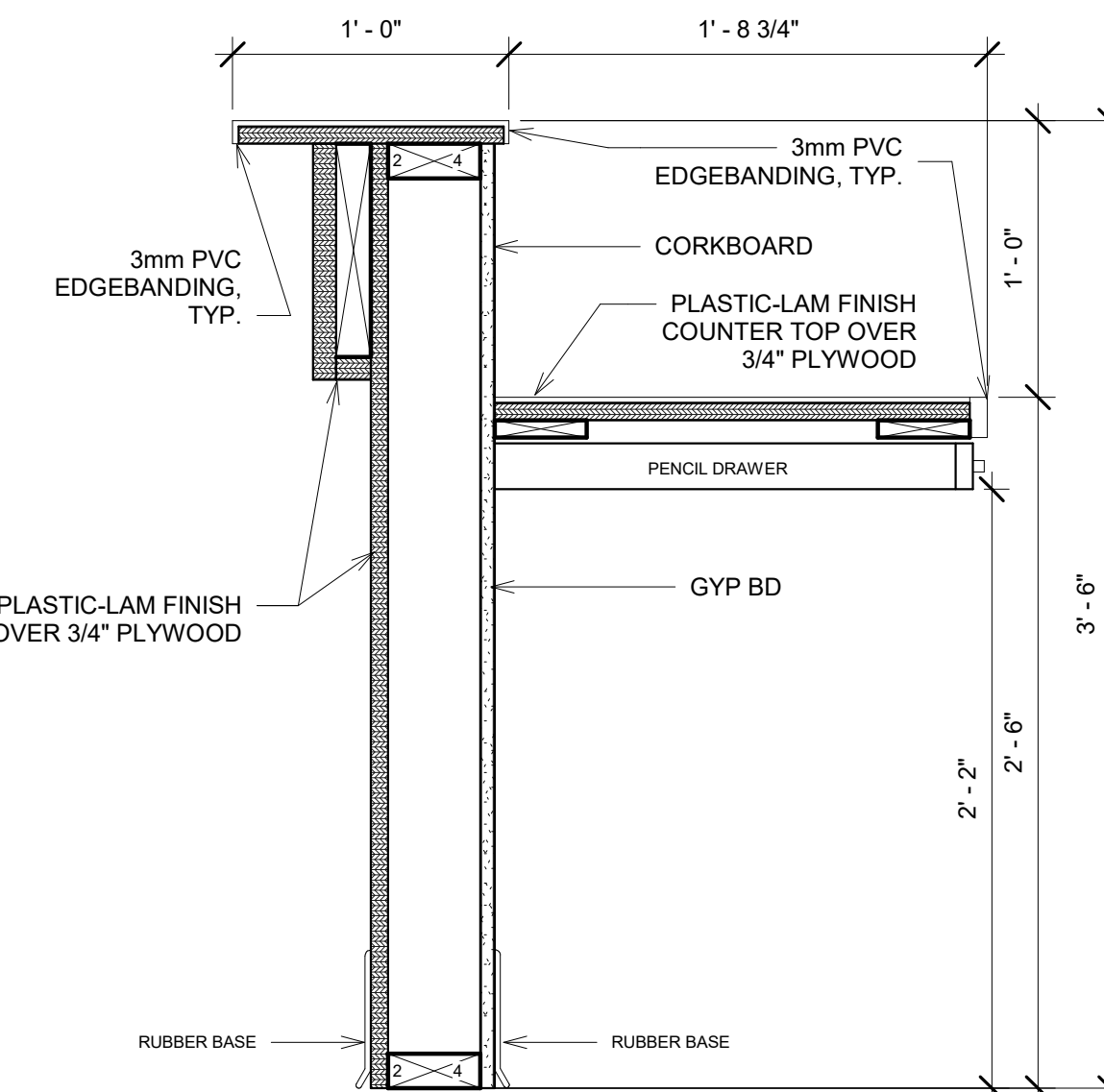
③ PHARMACY CASEWORK 3  
1 1/2" = 1'-0"



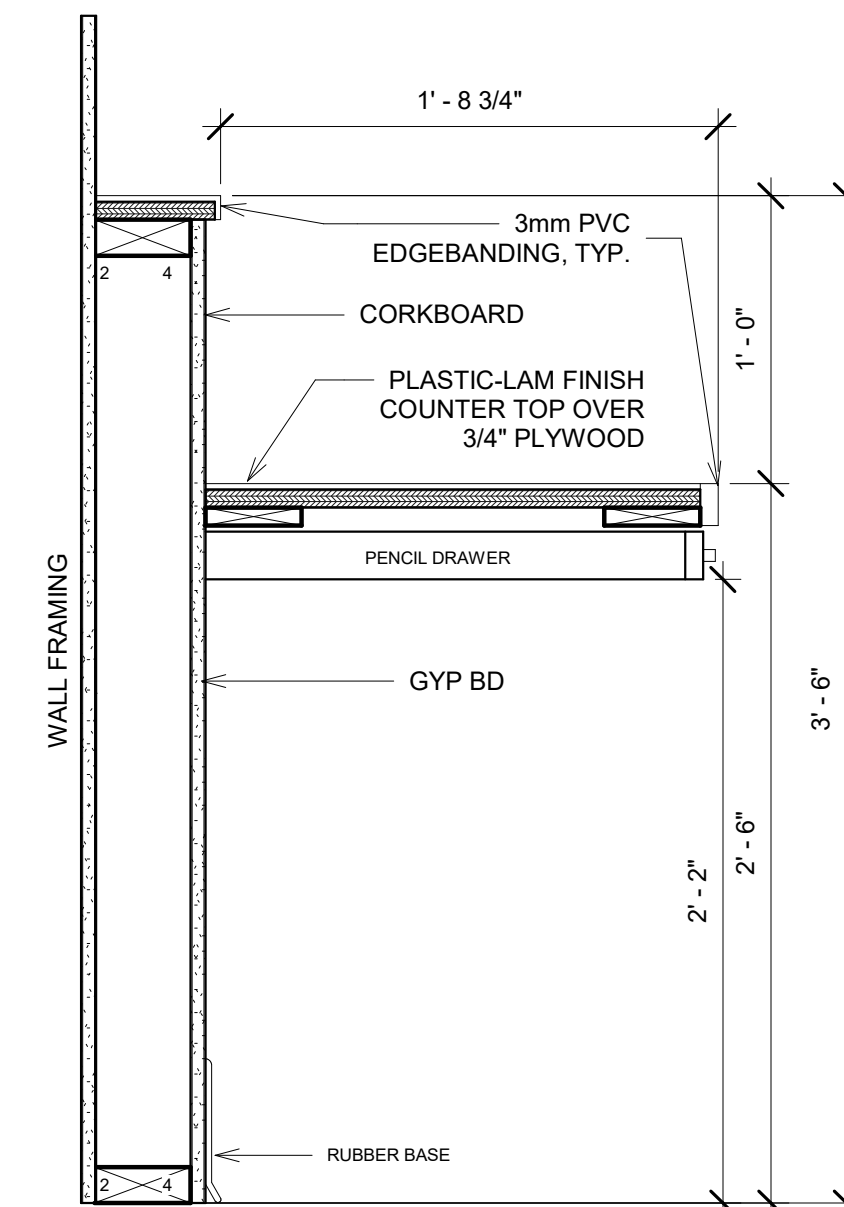
④ PHARMACY CASEWORK 4  
1 1/2" = 1'-0"



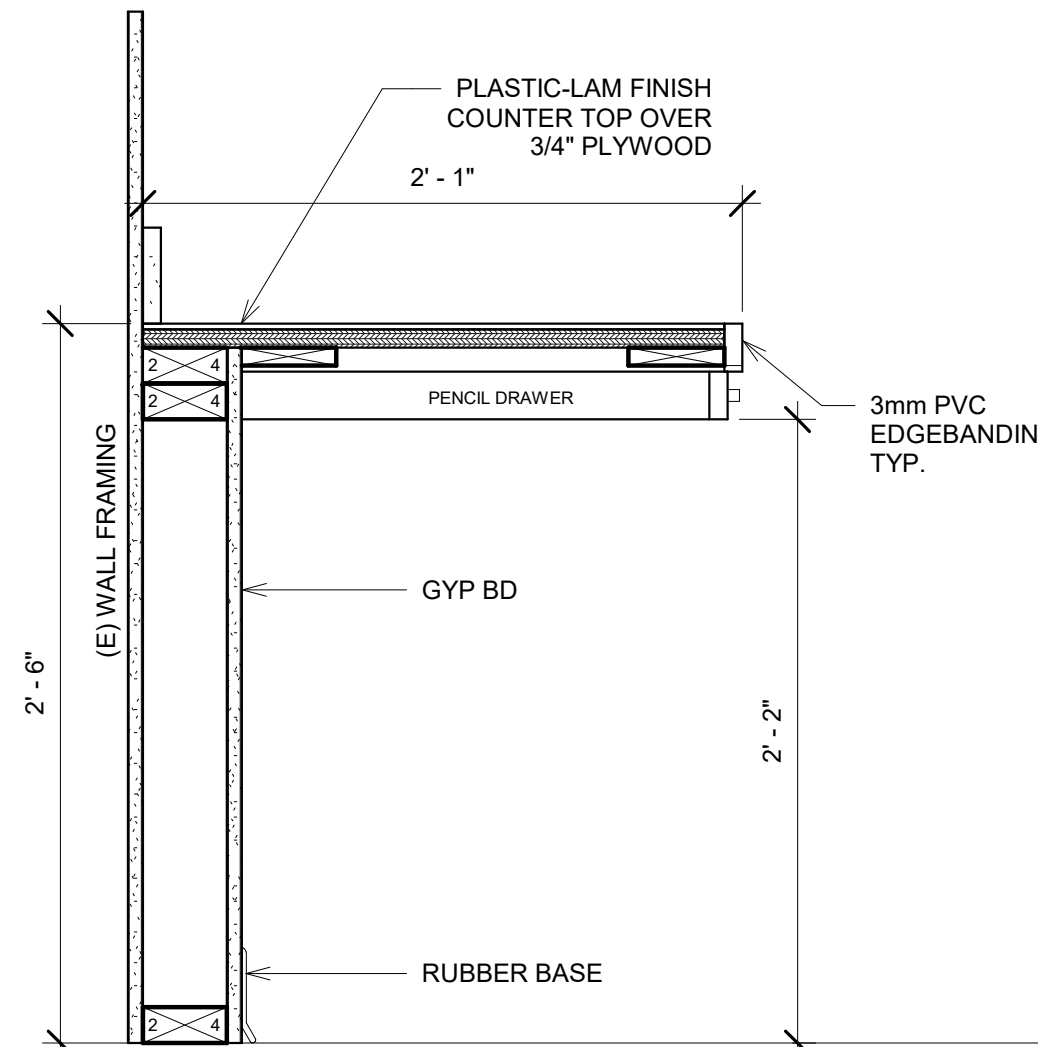
⑤ TALL STORAGE CABINET  
1" = 1'-0"



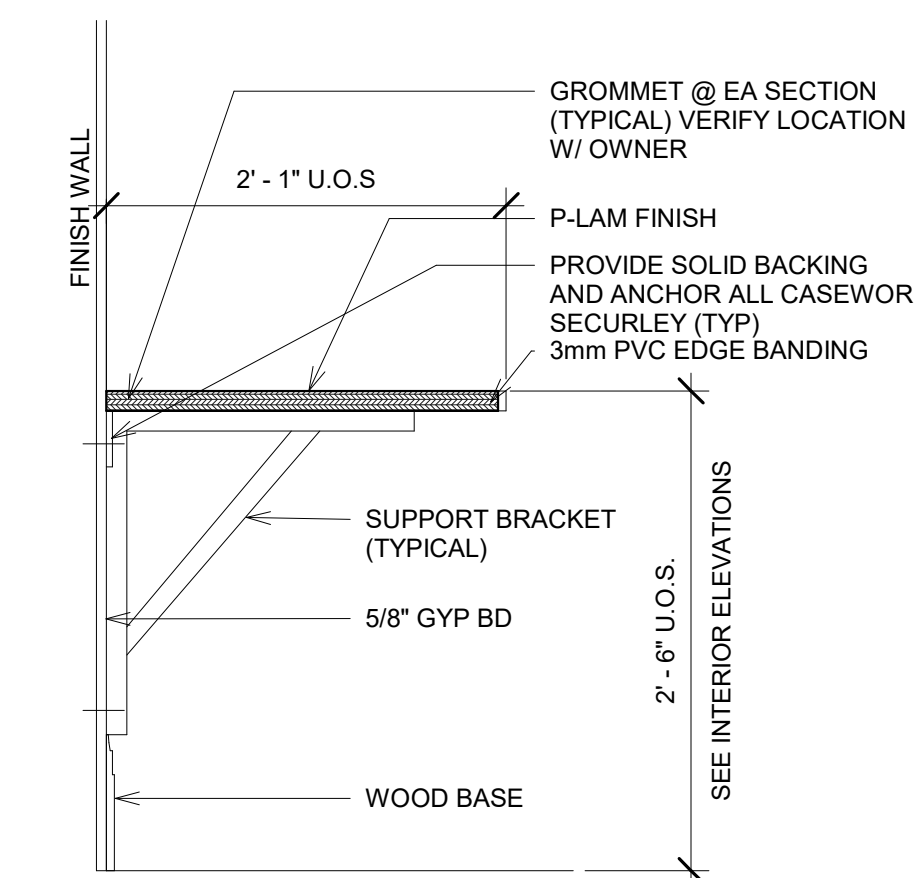
⑥ NURSE CASEWORK 1  
1 1/2" = 1'-0"



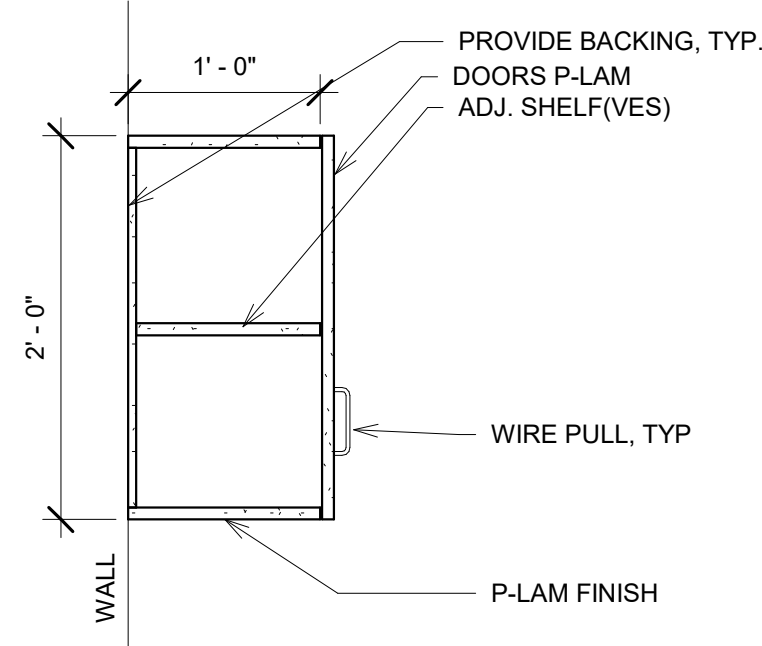
⑦ NURSE CASEWORK 2  
1 1/2" = 1'-0"



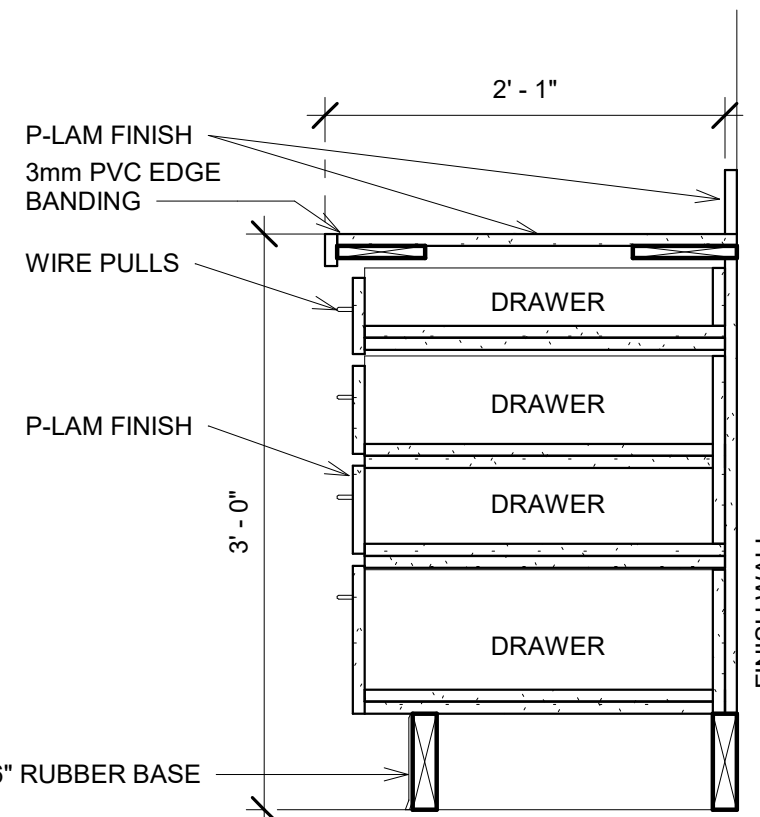
⑧ NURSE CASEWORK 3  
1 1/2" = 1'-0"



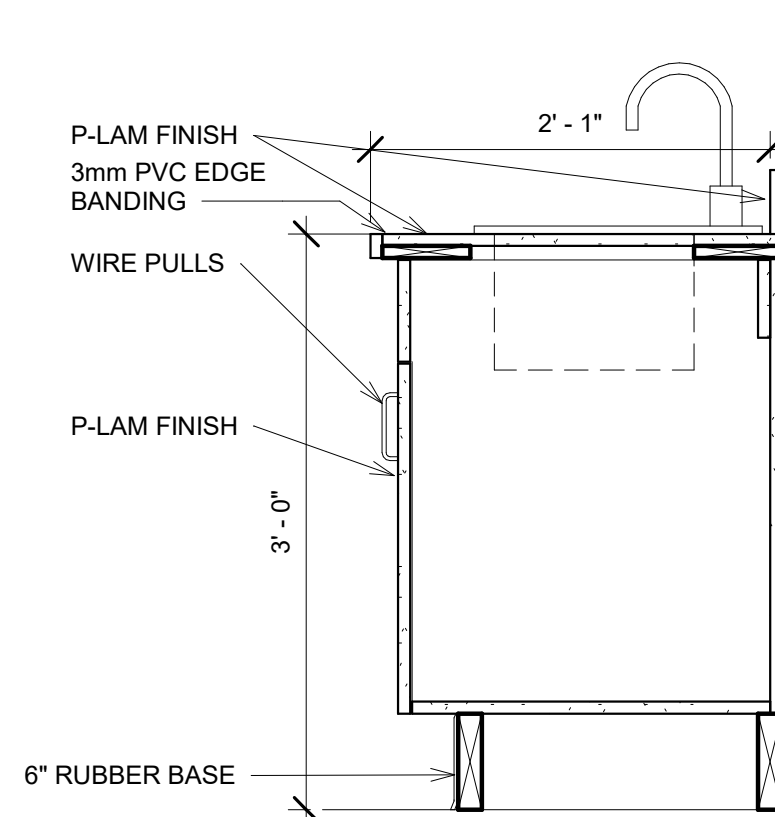
⑨ COUNTERTOP CASEWORK  
1" = 1'-0"



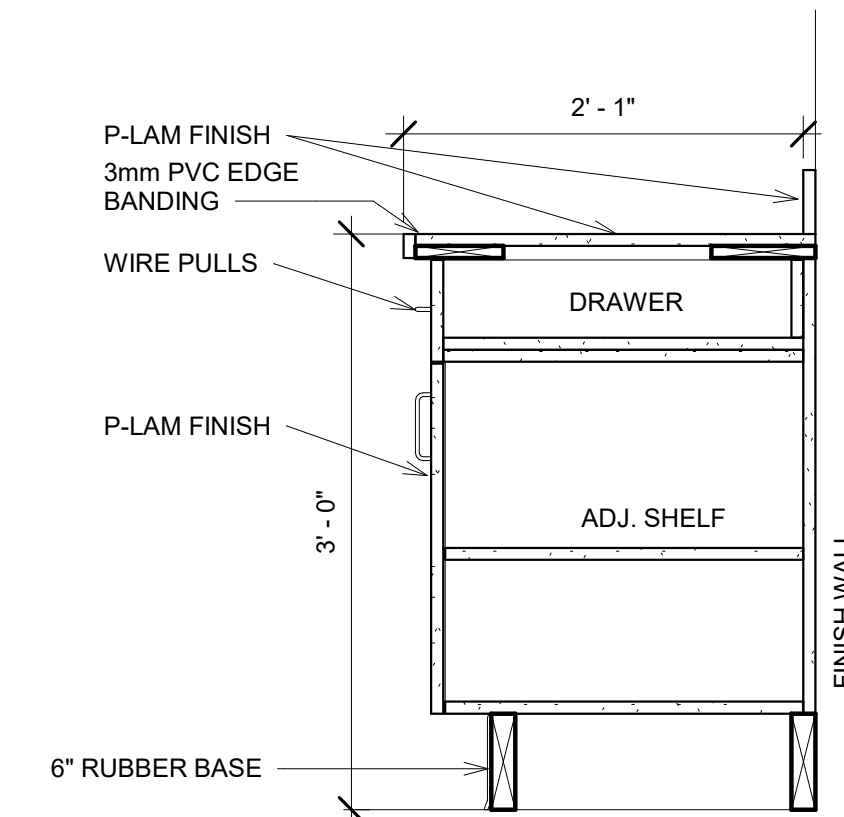
⑩ UPPER CASEWORK DETAIL  
1" = 1'-0"



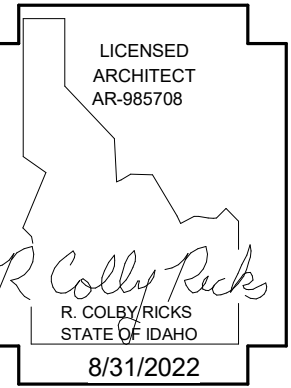
⑪ BASE CABINET 4 DRAWER  
1" = 1'-0"



⑫ BASE CABINET SINK DETAIL  
1" = 1'-0"



⑬ BASE CABINET SHELVES DETAIL  
1" = 1'-0"

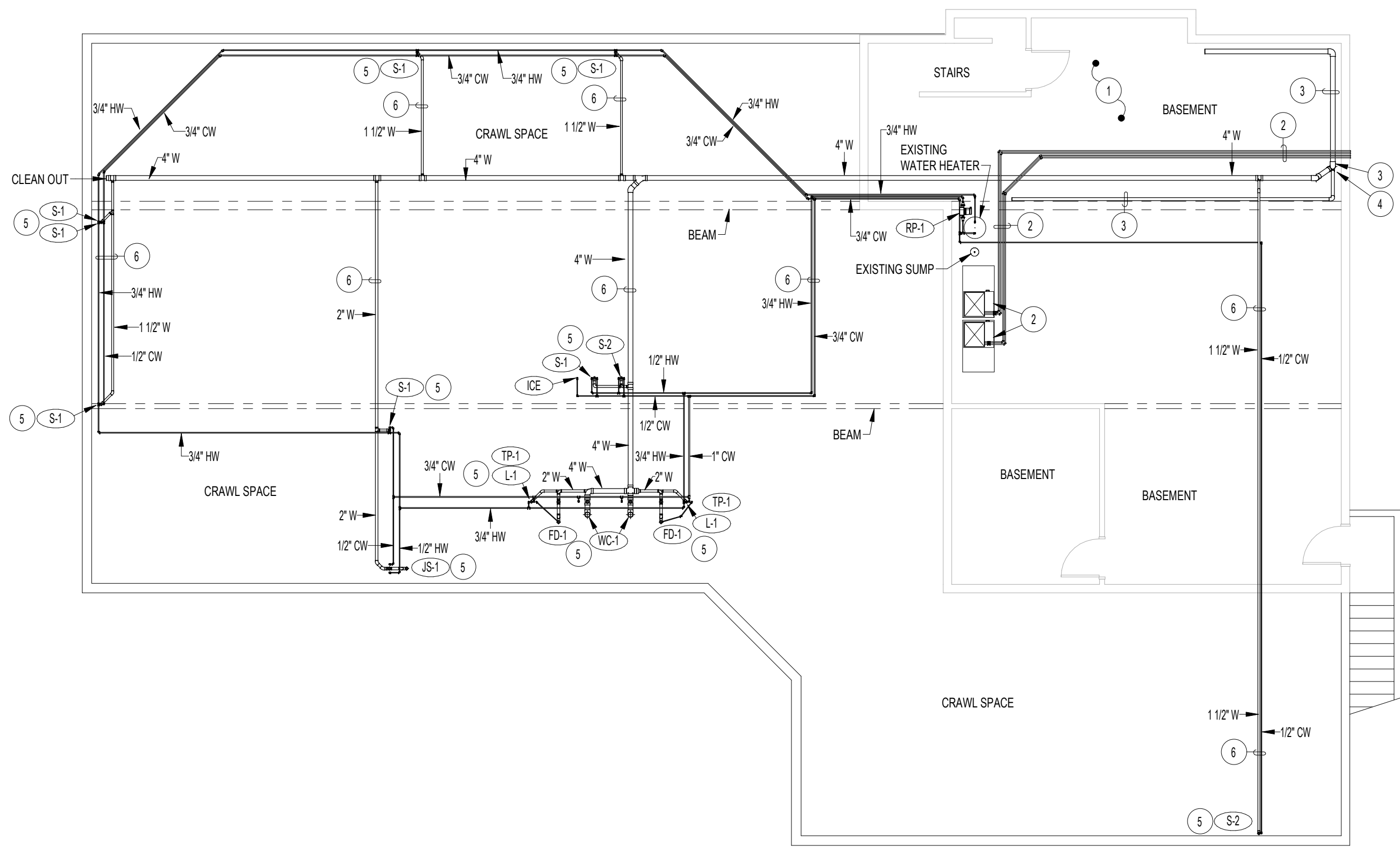


A REMODEL FOR:  
**FHS URGENT CARE**  
260 3rd Ave N Twin Falls, ID 83301  
**CASEWORK DETAILS**

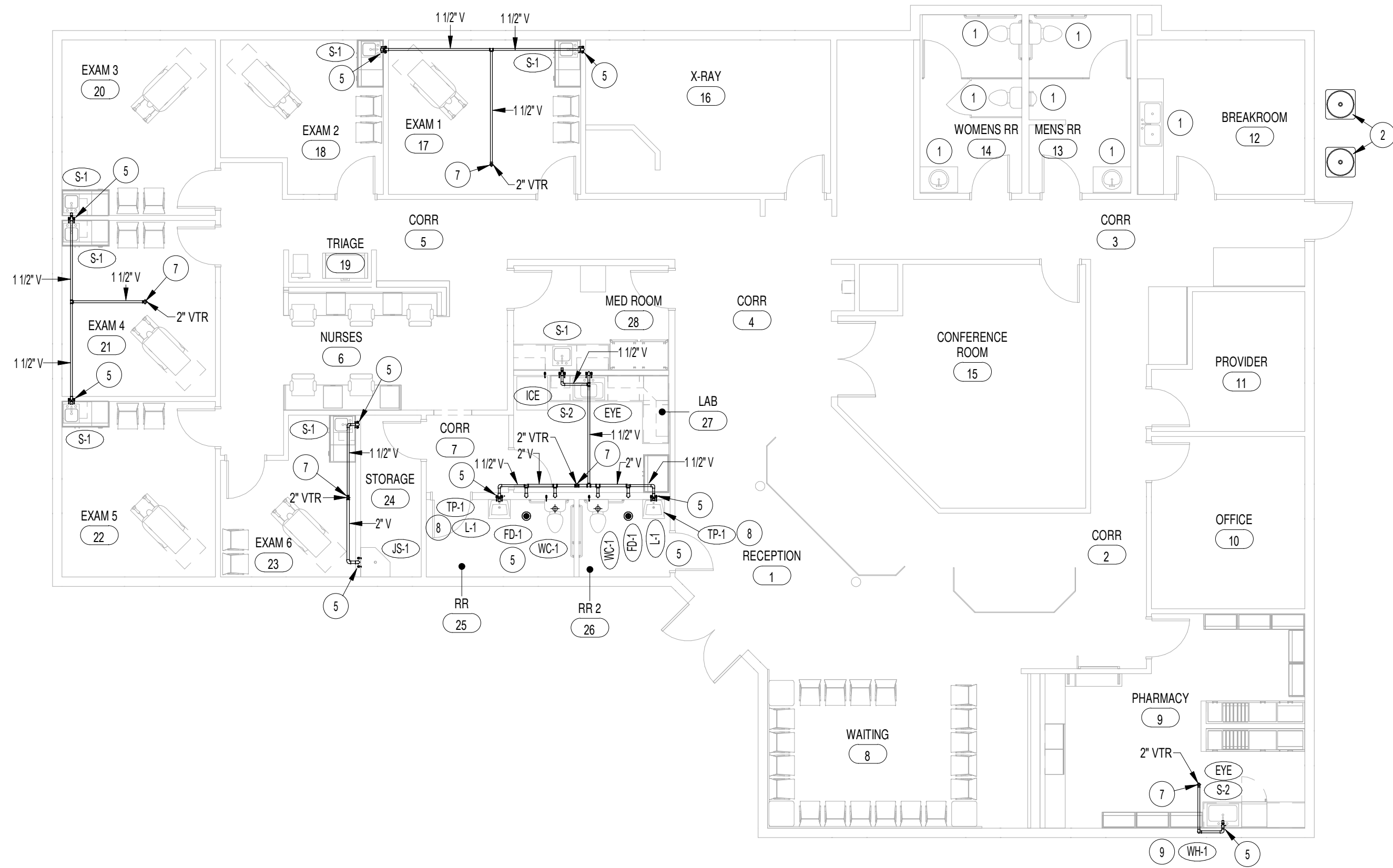
**Laughlin Ricks Architecture**  
—architecture/planning—  
134 3RD AVE. E. \* Twin Falls, Idaho 83301  
PHONE: (208) 736-8050

DATE: 8/31/2022  
NM RCR  
Drawn Checked

**A10-1**



1 **BASEMENT PLUMBING PLAN**  
1/8" = 1'-0"



2 **MAIN LEVEL PLUMBING FLOOR PLAN**  
1/8" = 1'-0"

PLAN NOTES:

- 1 ALL EXISTING PLUMBING FIXTURES IN EXISTING RESTROOMS ARE TO REMAIN. PROTECT FIXTURES AND PIPING DURING CONSTRUCTION AND MAINTAIN CONNECT TO EXISTING WASTE, WATER AND VENT PIPING. CONTRACTOR TO FIELD VERIFY LOCATIONS AND SIZES OF EXISTING PIPING.
- 2 EXISTING CONDENSING UNITS, FURNACES, AND REFRIGERANT PIPING TO REMAIN. PROTECT EQUIPMENT AND PIPING DURING CONSTRUCTION. REFER TO MECHANICAL DRAWINGS. MAINTAIN CONNECT TO EXISTING GAS PIPING.
- 3 EXISTING WASTE PIPING IN BASEMENT TO REMAIN. FIELD VERIFY EXISTING SIZES AND LOCATIONS AND COORDINATE NEW PIPING CONNECTION TO EXISTING.
- 4 CONNECT NEW 4" WASTE LINE TO EXISTING 4" VERTICAL WASTE LINE. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING.
- 5 INSTALL NEW PLUMBING FIXTURE(S) ON MAIN LEVEL. DROP WASTE AND WATER PIPING DOWN THRU FLOOR AND RUN IN CRAWL SPACE. RISE VENT PIPING UP ABOVE CEILINGS AND CONNECT TO NEW VENT THRU ROOF AS INDICATED.
- 6 RUN NEW WASTE AND WATER PIPING IN CRAWL SPACE. RUN PIPING THRU JOIST SPACES WHERE POSSIBLE TO KEEP WASTE PIPING AS HIGH AS POSSIBLE. COORDINATE NEW PIPING WITH NEW AND EXISTING DUCTWORK. REFER TO SHEET M1.1 FOR DUCTWORK LOCATIONS AND SIZES.
- 7 RISE NEW 2" VENT UP THRU ROOF. REFER TO ARCHITECTURAL DRAWINGS FOR CUTTING AND PATCHING OF EXISTING SHINGLE ROOF.
- 8 PROVIDE IN-LINE TRAP PRIMER BELOW LAVATORY INSIDE RECESSED, LOCKING BOX. REFER TO DETAIL ON SHEET P2.1 FOR TYPICAL TRAP PRIMER INSTALLATION AND.
- 9 PROVIDE ELECTRIC INSTANTANEOUS WATER HEATER BELOW COUNTER AS SCHEDULED. CONNECT TO 1/2" COLD WATER LINE AND RUN 3/8" HOT WATER LINE TO ADJACENT SINK AND EYEWASH MIXING VALVE. REFER TO DETAIL G/P2.1 FOR TYPICAL PIPING CONNECTIONS.

A REMODEL FOR:  
**FHS URGENT CARE**  
280 3rd Ave N, Twin Falls, Idaho  
**PLUMBING FLOOR PLAN**

**Laughlin Ricks Architecture**  
architecture/planning  
935 Shoshone Street North \* Twin Falls, Idaho 83301  
(208) 736-8050 Fax: (208) 733-0950



**Engineered Systems Associates**  
1355 EAST CENTER  
POCATELLO, IDAHO 83201  
PHONE: (208) 233-0501  
FAX: (208) 233-0529  
EMAIL: esa@engsystems.com  
ESA JOB NUMBER: 22101

DATE: 07/06/2022  
MLJ DLH  
Drawn Checked

**P1.1**

THIS TYPE (COLD EXPANSION) OF FITTING REQUIRES THAT THE PEX PIPING, WITH REINFORCING PEX RING PLACED OVER THE END OF THE END OF THE PIPE, IS EXPANDED BEFORE THE FITTING IS INSERTED INTO THE PIPE END. THE EXPANDED PIPE END IS ALLOWED TO RETRACT ONTO THE FITTING TO FORM THE SEAL. THE MEMORY OF THE PIPE ALLOWS IT TO TIGHTEN OVER THE FITTING. AN EXPANDER TOOL IS REQUIRED TO EXPAND THE PIPE AND THE PEX RING TOGETHER.

ALL JOINTS (TEES, ELBOWS, COUPLINGS, ETC.) ARE JOINTED SIMILARLY.

NOTE: STAINLESS STEEL CAMP BANDS ARE ALSO PERMITTED FOR REINFORCING RING.

STRAINER ADJUST TO FINISH FLOOR LEVEL

NEW 20 GA GALVANIZED SHEET METAL PAN. SOLDER WATERTIGHT.

FLOOR DRAIN BODY

FILL PAN WITH GROUT

TILE AND GROUT

WOOD SUBFLOOR

NEW 2x8 CROSS MEMBER

JOIST HANGER

EXISTING FLOOR JOISTS

2x4 SUPPORT MEMBERS ON EACH SIDE OF DRAIN LINE UNDER METAL PAN.

SEAL PIPE PENETRATION WATER TIGHT.

2" WASTE LINE TO WASTE AND VENT SYSTEM

2" DEEP SEAL P-TRAP

1-1/2"

1-1/2"

2"

FLOOR

WASTE LINE UNDER FLOOR

RISE VENT LINE UP IN OUTSIDE WALL

RUN WASTE LINE INSIDE OF WALL AS SHOWN

WALL STUD (WOOD OR METAL SIMILAR)

PEX PIPING

NAIL PLATE

WALL INSTALLATION

PIPE SUPPORTS: PLASTIC HANGERS AND STRAPS ARE RECOMMENDED, BUT METAL SUPPORTS WHICH ARE DESIGNED FOR USE WITH PLASTIC TUBING CAN BE USED.

DO NOT USE SUPPORTS THAT PINCH OR CUT THE TUBING. SUPPORT SHOULD ALLOW FREE TUBING MOVEMENT.

INSPECT ALL SUPPORTS PRIOR TO INSTALLATION TO ENSURE THAT SHARP EDGES DO NOT EXIST THAT CAN DAMAGE THE TUBING. DO NOT USE IN ANY APPLICATION WHERE TUBING WILL BE EXPOSED TO DIRECT SUNLIGHT.

VERTICAL TUBING TO BE SUPPORTED EVERY 8'-0"

WHEN PENETRATING METAL STUDS, UTILIZE A BUSHING DESIGNED FOR PLASTIC TUBING.

SUPPORTS SHALL BE INSTALLED AT CHANGES IN DIRECTION TO RELIEVE STRESS AS SHOWN.

WOOD STUD

METAL STUD

APPROVED BUSHING

CLAMP

PIPE SUPPORTS

CLAMP AT TURN

3/8" HOT AND COLD WATER LINES TO FIXTURE

SHUT-OFF VALVE

1/2" COLD WATER SUPPLY LINE

TYPICAL UNION

INSTANTANEOUS TYPE WATER HEATER MOUNT BELOW SINK

208V BY DIV. 26

CHROME WALL COVER AND SCREW

MAY EXTEND AS A WASTE OR VENT

WALL

PLUGGED TEE WITH CLEANOUT

FLOOR LINE

1'-0"

1/8" BEND

BALANCE OF PIPING SAME AS CLEANOUT TO GRADE.

PEX PIPING

12"

HEAT SOURCE

MIN. CLEARANCES

TUBING SIZE	MIN. RADIUS BENDING
3/8"	4"
1/2"	5"
3/4"	7"
1"	9"

TUBING AND FITTINGS SHALL BE STORED UNDERCOVER FOR CLEANLINESS AND TO AVOID EXPOSURE TO SUNLIGHT. CONSULT MANUFACTURER FOR RECOMMENDED LIMITS TO OUTSIDE STORAGE.

NOTE: USE ONLY CONTINUOUS LENGTH TUBING (NO FITTINGS) WHEN INSTALLING PEX UNDER OR WITHIN A SLAB. PROTECT PEX TUBING WITH NONMETALLIC SLEEVES WHERE IT PENETRATES A SLAB OR FOUNDATION WALL.

DO NOT CRUSH OR KINK TUBING

DO NOTE DRAG TUBING OVER ROUGH TERRAIN, ROCKS, OR ANY SURFACE THAT CAN CUT, PUNCTURE OR DAMAGE TUBING WALL.

S-2 SINK AND FAUCET AS SPECIFIED ON PLANS

SWING DOWN

EYE

PUSH HANDLE OPERATOR

1/2" TEMPERED WATER

COUNTER AS DETAILED BY ARCHITECT.

1/2" H&C

1/2" H&C

THERMAL MIXING VALVE

1/2" COLD WATER

FLOOR

NOTE: ANSI STANDARD SPECIFIED EYEWASH NOZZLE HEIGHTS TO BE 33" MIN. TO 43" MAX. ABOVE FLOOR. CENTERLINE OF EYEWASH HEADS MUST BE 6" MIN. AWAY FROM WALL.

TRAP PRIMER

MOUNT IN RECESSED BOX IN WALL. PROVIDE 8X8 BOX WITH WITH DOOR.

BALL TYPE SHUT-OFF VALVE

CONCRETE FILL

WATERPROOF MEMBRANE WHERE REQUIRED

STRUCTURAL SLAB

FLOOR DRAIN

1/2" PEX

12" MIN. TO HORIZONTAL RUN IN PIPE

AIR GAP VACUUM BREAKING PORTS

FLOW TO NEAREST FIXTURE

A

PEX PIPE FITTING DETAILS

NO SCALE

B

FLOOR DRAIN IN WOOD FLOOR DETAIL

NO SCALE

C

VENT IN OUTSIDE WALL DETAIL

NO SCALE

D

PEX PIPE INSTALLATION DETAILS

NO SCALE

E

TANKLESS WATER HEATER PIPING DETAIL

NO SCALE

F

WALL CLEAN OUT DETAIL

NO SCALE

G

PEX PIPE HANDLING DETAILS

NO SCALE

H

EMERGENCY EYEWASH DETAIL

NO SCALE

J

TRAP PRIMER

NO SCALE

FIXTURE SCHEDULE					
SYM.	DESCRIPTION	HOT	COLD	WASTE	VENT
EYE	EMERGENCY EYE WASH STATION - HAWS MODEL 7610 DECK MOUNTED EYEWASH WITH STAY-OPEN BALL VALVE, THERMOSTATIC MIXING VALVE, WASH HEAD COVER, SWING UP ARM, AND INVERTED DIRECTIONAL LAMINAR FLOW. MOUNT IN DECK AT BACK OF SINK. REFER TO DETAIL H/P2.1 FOR TYPICAL INSTALLATION.	1/2"	1/2"	---	---
FD-1	2" FLOOR DRAIN - ZURN Z415S WITH 5" SQUARE, NICKEL-BRONZE STRAINER AND 2" DEEP SEAL P-TRAP. RUN 1/2" COLD WATER LINE TO TRAP PRIMER. REFER TO DETAIL B/P2.1 FOR DRAIN INSTALLATION IN WOOD FLOOR AND TO DETAIL J/P2.1 FOR TYPICAL TRAP PRIMER INSTALLATION.	---	1/2"	2"	2"
ICE	ICE MAKER UTILITY BOX - GUY GRAY MODEL BIM875 WITH 1/2" COLD WATER LINE AND SHUT-OFF VALVE. PLACE UTILITY BOX NEAR FLOOR BEHIND REFRIGERATOR	---	1/2"	---	---
JS-1	FLOOR MOUNTED SERVICE SINK - KOHLER K-6710 "WHITBY" WITH K-8940 WIRE RIM GUARD, K-9142 PERFORATED STRAINER AND 2" DEEP SEAL P-TRAP. MOUNT T&S B-0674-BSTP FAUCET ON WALL COMPLETE WITH VACUUM BREAKER, AND PAIL HOOK. PROVIDE 5'-0" RUBBER HOSE AND WALL CLIP.	1/2"	1/2"	2"	2"
L-1	WALL MOUNTED LAVATORY - KOHLER K-2032 "GREENWICH" WITH K-7715 GRID STRAINER, K-15992-R LEVER HANDLE FAUCET, WALL CARRIER, 1-1/2" P-TRAP AND 1/2" STOPS. PROVIDE INSULATING JACKET ON WASTE AND HOT WATER LINE.	1/2"	1/2"	1-1/2"	1-1/2"
RP-1	DOMESTIC RECIRC. PUMP - B&G SERIES LR-208F "LITTLE RED" WITH 4 GPM FLOW AT 8' HEAD AND 3/4" LINE CONNECTIONS. MOUNT NEAR WATER HEATER. REFER TO DETAIL E/P2 FOR TYPICAL PIPE CONNECTIONS.	3/4"	---	---	---
S-1	SINGLE COMPARTMENT SINK - ELKAY MODEL ELUH1616DBG STAINLESS STEEL UNDERMOUNT SINK WITH ELKAY LK500GN08T4 GOOSENECK FAUCET WITH 4" WRISTBLADE HANDLES, LK-99 HEAVY DUTY STRAINER, AND 1/2" STOPS.	1/2"	1/2"	1-1/2"	1-1/2"
S-2	LAB / PHARMACY SINK - ELKAY MODEL PLAUH211510 STAINLESS STEEL UNDERMOUNT SINK WITH ELKAY LK500GN08T4 GOOSENECK FAUCET WITH 4" WRISTBLADE HANDLES, LK-99 HEAVY DUTY STRAINER, AND 1/2" STOPS.	1/2"	1/2"	1-1/2"	1-1/2"
TP-1	TRAP PRIMER - ZURN Z-1020XL IN-LINE TRAP PRIMER. MOUNT RECESSED IN WALL BELOW FIXTURE AND PROVIDE LOCKING COVER. RUN 1/2" COLD WATER LINE TO EACH FLOOR DRAIN AS SHOWN ON FOUNDATION PLAN. SEE DETAIL H/P2 FOR TYPICAL INSTALLATION	---	1/2"	---	---
WC-1	ADA WATER CLOSET - KOHLER K-3999 "HIGHLINE" WITH ELONGATED BOWL, K-4670C OPEN FRONT SEAT, BOLT CAPS AND TRIP LEVER FLUSH	---	1/2"	4"	2"
WH-1	UNDER COUNTER TANKLESS WATER HEATER - EEMAX MODEL SP3212 WITH 3.0 KW HEATING ELEMENT (25 AMPS) AND 1/2" WATER LINE CONNECTIONS. (120 VOLT - 1 PHASE)	1/2"	1/2"	---	---

07/06/2022

DATE 07/15/2022 10% CDRG SET

A REMODEL FOR:

FHS URGENT CARE

260 3rd Ave N, Twin Falls, Idaho

PLBG FIXTURE SCHEDULE AND DETAILS

Laughlin Ricks Architecture

architecture/planning

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P2.1

PROFESSIONAL ENGINEER

DAVID L. HANSEN

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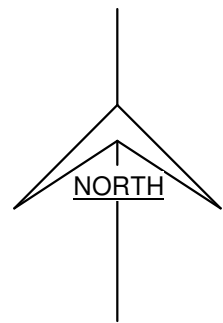
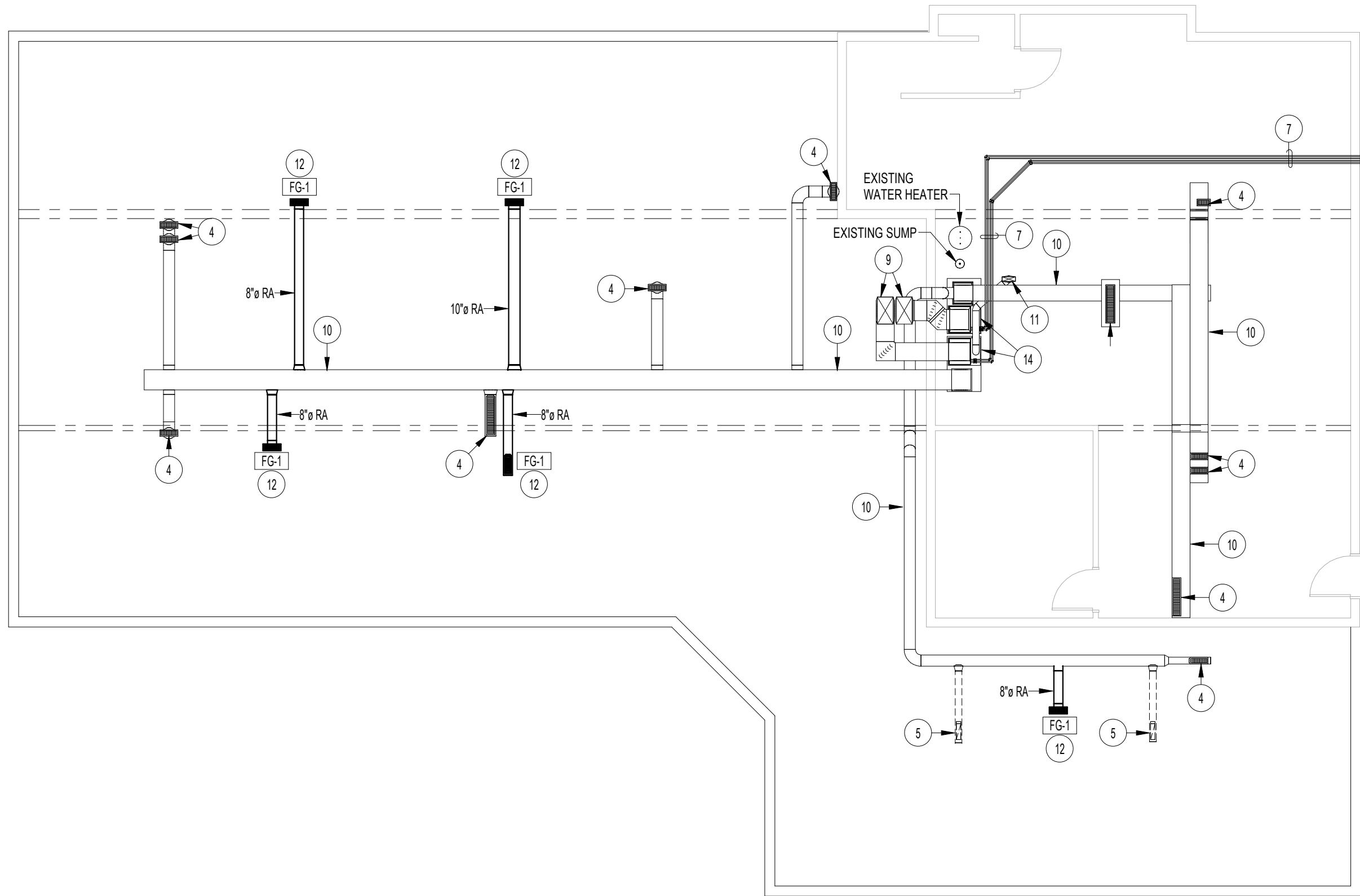
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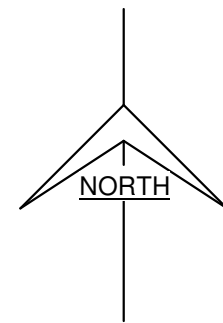
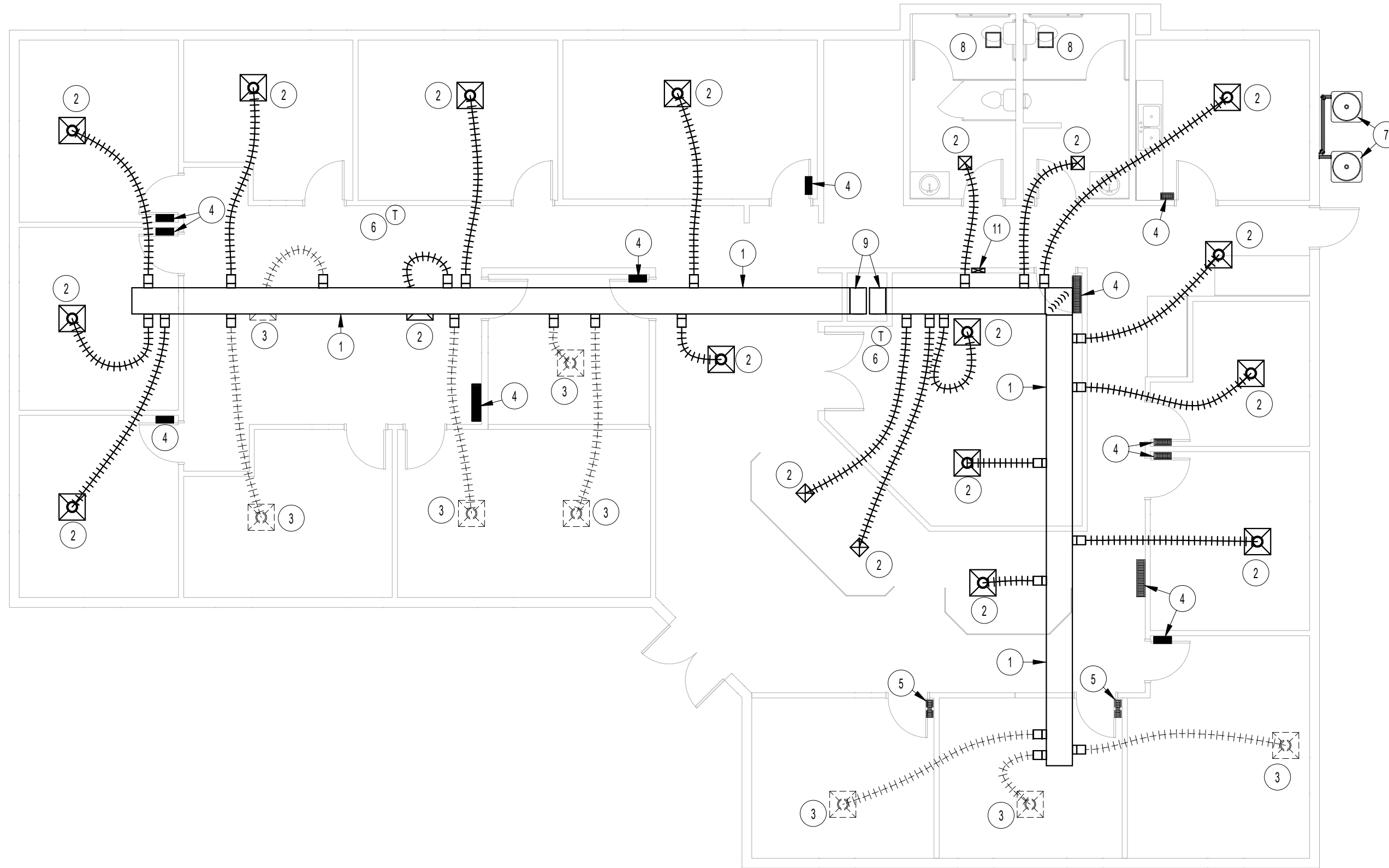
EMAIL: esa@engsystems.com

ESA JOB NUMBER: 22101

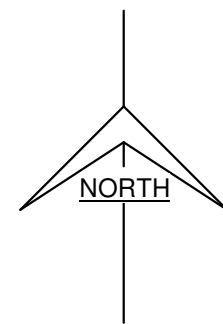
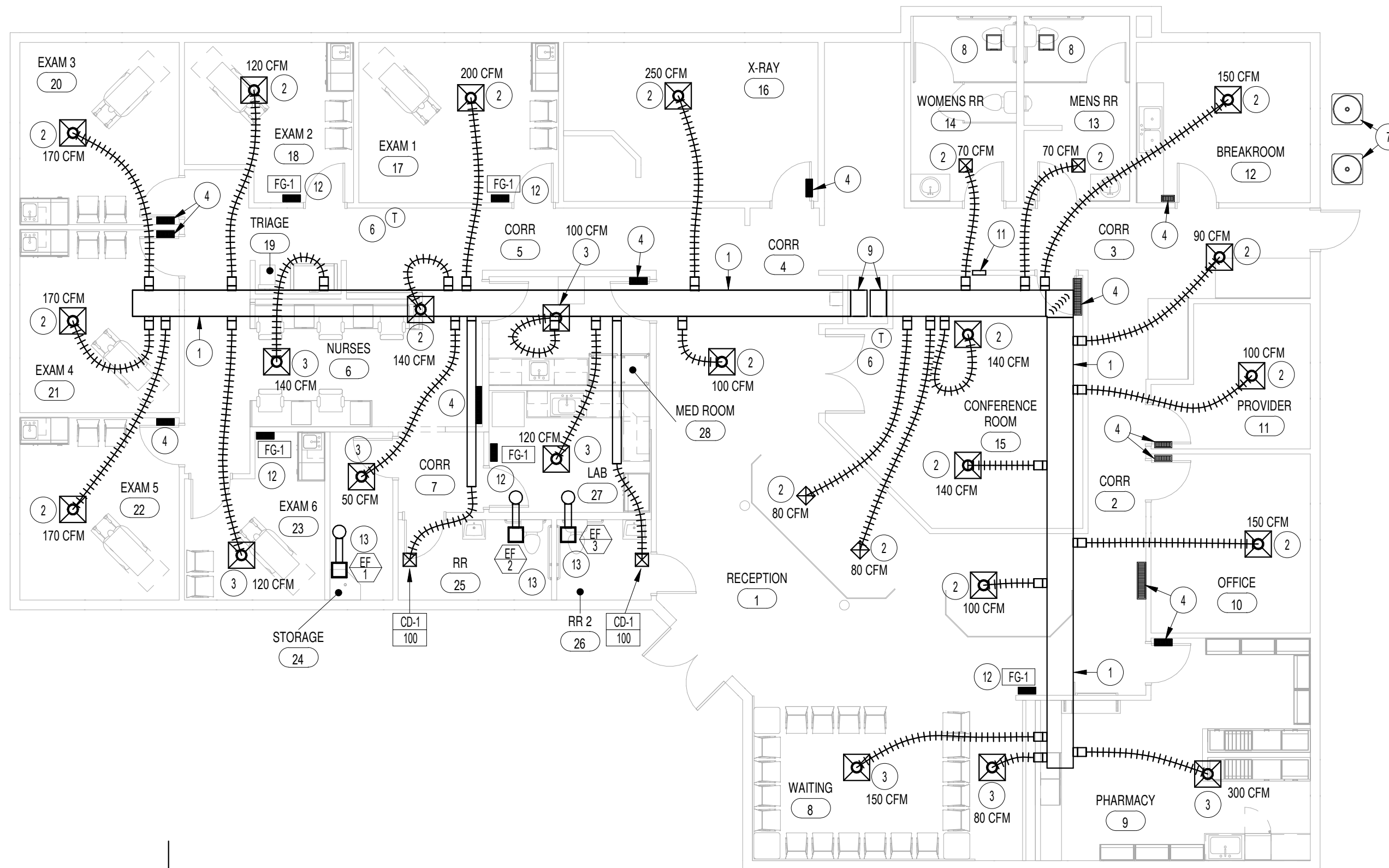




1 BASEMENT MECHANICAL PLAN  
1/8" = 1'-0"



2 MAIN LEVEL MECHANICAL DEMO PLAN  
1/8" = 1'-0"



3 MAIN LEVEL MECHANICAL FLOOR PLAN  
1/8" = 1'-0"

PLAN NOTES:

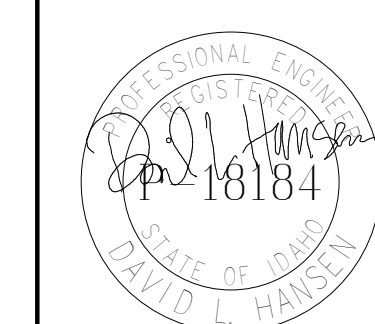
- EXISTING SUPPLY DUCTWORK IN ATTIC TO REMAIN. CONTRACTOR TO FIELD VERIFY EXACT SIZES AND LOCATION OF EXISTING DUCTWORK.
- EXISTING CEILING DIFFUSER TO REMAIN. RE-BALANCE EXISTING DIFFUSER TO CFM AS INDICATED.
- EXISTING CEILING DIFFUSER TO BE RELOCATED FOR NEW WALLS AND CEILING GRID. REMOVE DUCTWORK THRU GYPSUM BOARD BARRIER ABOVE LAY-IN CEILING AND RE-ROUTE AND EXTEND EXISTING DUCT THRU ATTIC AS REQUIRED FOR NEW DIFFUSER LOCATION. REFER TO MAIN LEVEL MECHANICAL PLAN FOR NEW DIFFUSER LOCATIONS AND FOR CFM TO RE-BALANCE RELOCATED DIFFUSER TO.
- EXISTING FLOOR MOUNTED RETURN GRILLE TO REMAIN. COVER GRILLE DURING CONSTRUCTION TO KEEP CLEAN AND PROTECT GRILLE AND DUCTWORK BELOW FLOOR DURING CONSTRUCTION.
- REMOVE AND RETAIN EXISTING FLOOR RETURN AIR GRILLE. REMOVE EXISTING BOOT THRU FLOOR. REFER TO ARCHITECTURAL DRAWINGS FOR PATCHING OF EXISTING FLOORS AND TO MAIN LEVEL MECHANICAL PLAN FOR NEW LOCATION OF EXISTING GRILLE.
- EXISTING WALL MOUNTED THERMOSTAT TO REMAIN. PROTECT DURING CONSTRUCTION AND MAINTAIN CONNECT TO CORRESPONDING FURNACE AND CONDENSING UNIT.
- EXISTING CONDENSING UNIT AND REFRIGERANT PIPING TO REMAIN. PROTECT EQUIPMENT AND PIPING DURING CONSTRUCTION.
- EXISTING CEILING MOUNTED EXHAUST FANS AND CONTROL TO REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING SUPPLY AIR DUCTS UP IN CHASE TO REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING RETURN AIR DUCTWORK IN CRAWL SPACE OR BASEMENT TO REMAIN. PROTECT DURING CONSTRUCTION. CONTRACTOR TO FIELD VERIFY EXACT SIZES AND LOCATIONS OF EXISTING DUCTWORK.
- EXISTING FURNACE FLUE DUCT UP IN WALL CAVITY TO REMAIN. FIELD VERIFY LOCATION AND PROTECT DURING CONSTRUCTION.
- PROVIDE AND INSTALL NEW FLOOR GRILLE AS SCHEDULED. COORDINATE LOCATION OF FLOOR GRILLE WITH NEW WALLS AND EXISTING FLOOR JOISTS. DROP FULL SIZED SHEET METAL BOOT DOWN INTO CRAWL SPACE AND CONNECT TO EXISTING TRUNK DUCT AS SHOWN IN FOUNDATION PLAN. REFER TO DETAIL ON SHEET M2.1 FOR TYPICAL RETURN BOOT INSTALLATION.
- PROVIDE AND INSTALL NEW CEILING MOUNTED EXHAUST FAN AS SCHEDULED. RISE 6" DIA EXHAUST DUCT UP THRU EXISTING ROOF. COORDINATE FAN AND DUCT LOCATION WITH NEW CEILING GRID AND EXISTING ROOF JOISTS. REFER TO DETAIL ON SHEET M2.1 FOR TYPICAL INSTALLATION.
- EXISTING GAS FIRED FURNACE, DX COOLING, COIL RETURN AIR PLENUM, SUPPLY AND RETURN DUCTWORK, AND OUTSIDE AIR DUCTWORK TO REMAIN. PROTECT ALL EQUIPMENT, DUCTWORK AND PIPING DURING CONSTRUCTION. PROVIDE NEW FILTER AFTER CONSTRUCTION IF COMPLETE FOR EACH FURNACE SYSTEM. FIELD VERIFY EXACT SIZE OF FILTER REQUIRED.

07/06/2022

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260 3rd Ave N, Twin Falls, Idaho  
MECHANICAL FLOOR PLANS

Laughlin Ricks Architecture  
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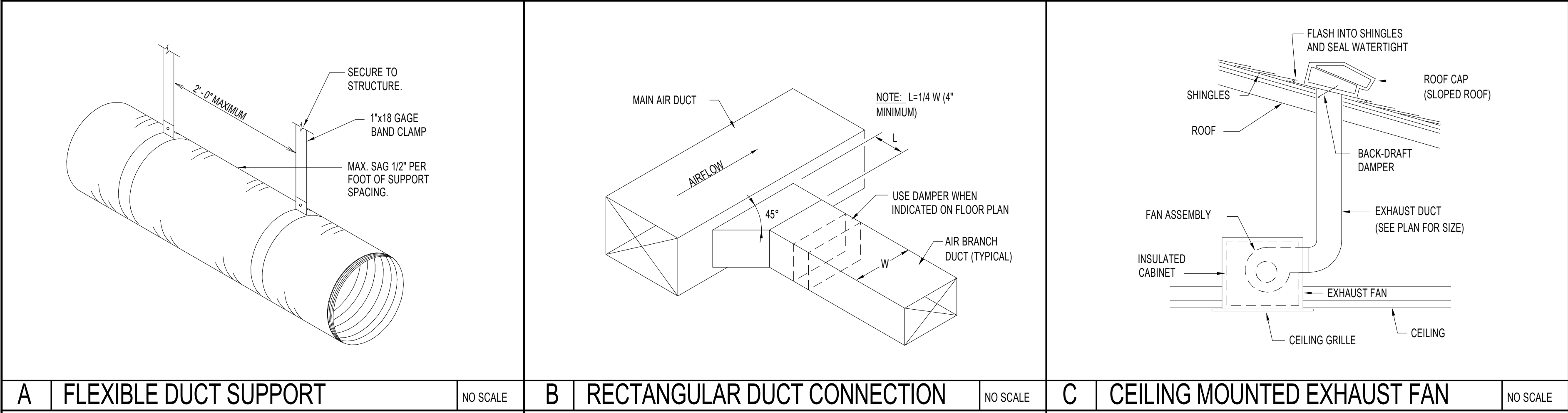


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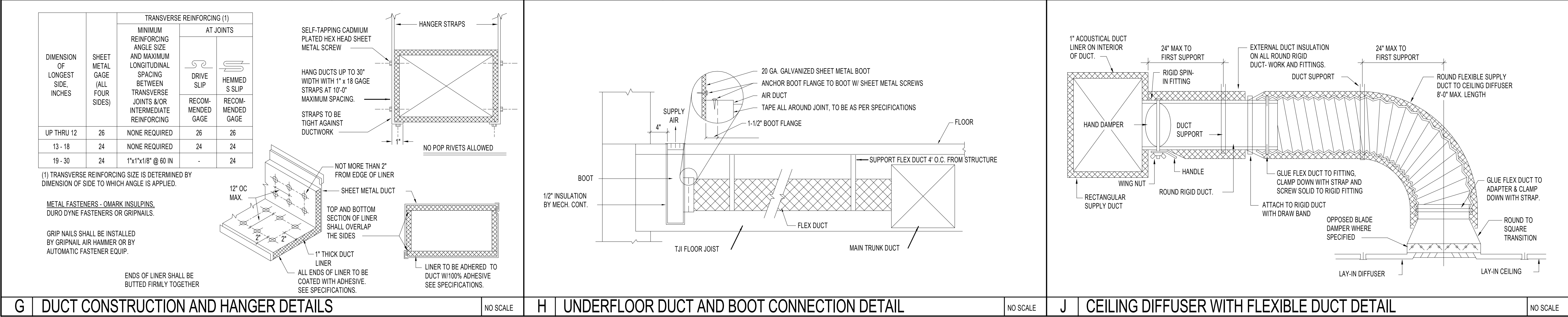
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EXHAUST FAN SCHEDULE								
SYM.	TYPE	C.F.M.	S.P.E.	H.P.	CHAR.	R.P.M.	CONTROL	REMARKS
EF-1	CEILING MOUNTED	150	.25"	100 W	120/60/1	710	TIMER SWITCH	TWIN CITY MODEL T150 WITH 6" Dia. DUCT TO ROOF CAP.
EF-2	CEILING MOUNTED	100	.25"	87 W	120/60/1	640	WITH LIGHTS	TWIN CITY MODEL T100 WITH 6" Dia. DUCT TO ROOF CAP.
EF-3	CEILING MOUNTED	100	.25"	87 W	120/60/1	640	WITH LIGHTS	TWIN CITY MODEL T100 WITH 6" Dia. DUCT TO ROOF CAP.

GRILLE AND REGISTER SCHEDULE									
SYM.	SIZE (W x H)	THROW	CFM	CONSTR.	FINISH	BRANCH DUCT	MAX N.C.	O.B.	REMARKS
CD-1	10 x 10	45°	50-200	STEEL	WHITE	8" Dia.	20	YES	PRICE SMD WITH BEVELED FRAME
FG-1	14 x 6		50-160	ALUM.	ALUM.	14 x 6	25	NO	PRICE LBP25C WITH TYPE 750 (3/4") BORDER

D	-	NO SCALE	E	-	NO SCALE	F	-	NO SCALE
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PROFESSIONAL ENGINEER  
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A REMODEL FOR:

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260 3rd Ave N, Twin Falls, Idaho

MECHANICAL SCHEDULES AND DETAILS

Laughlin Ricks Architecture

architecture/planning

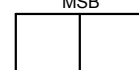
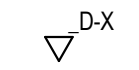
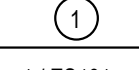
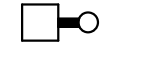
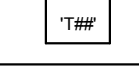
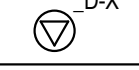
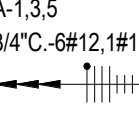
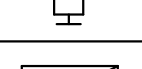

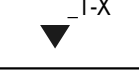
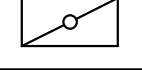

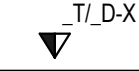
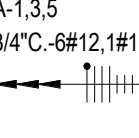
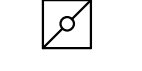


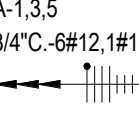
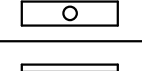

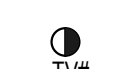

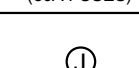
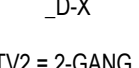
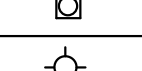

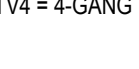
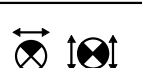
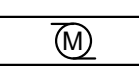
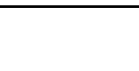
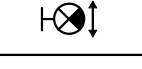
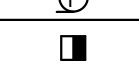






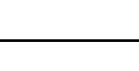


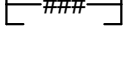
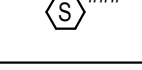





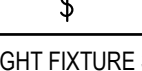

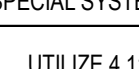
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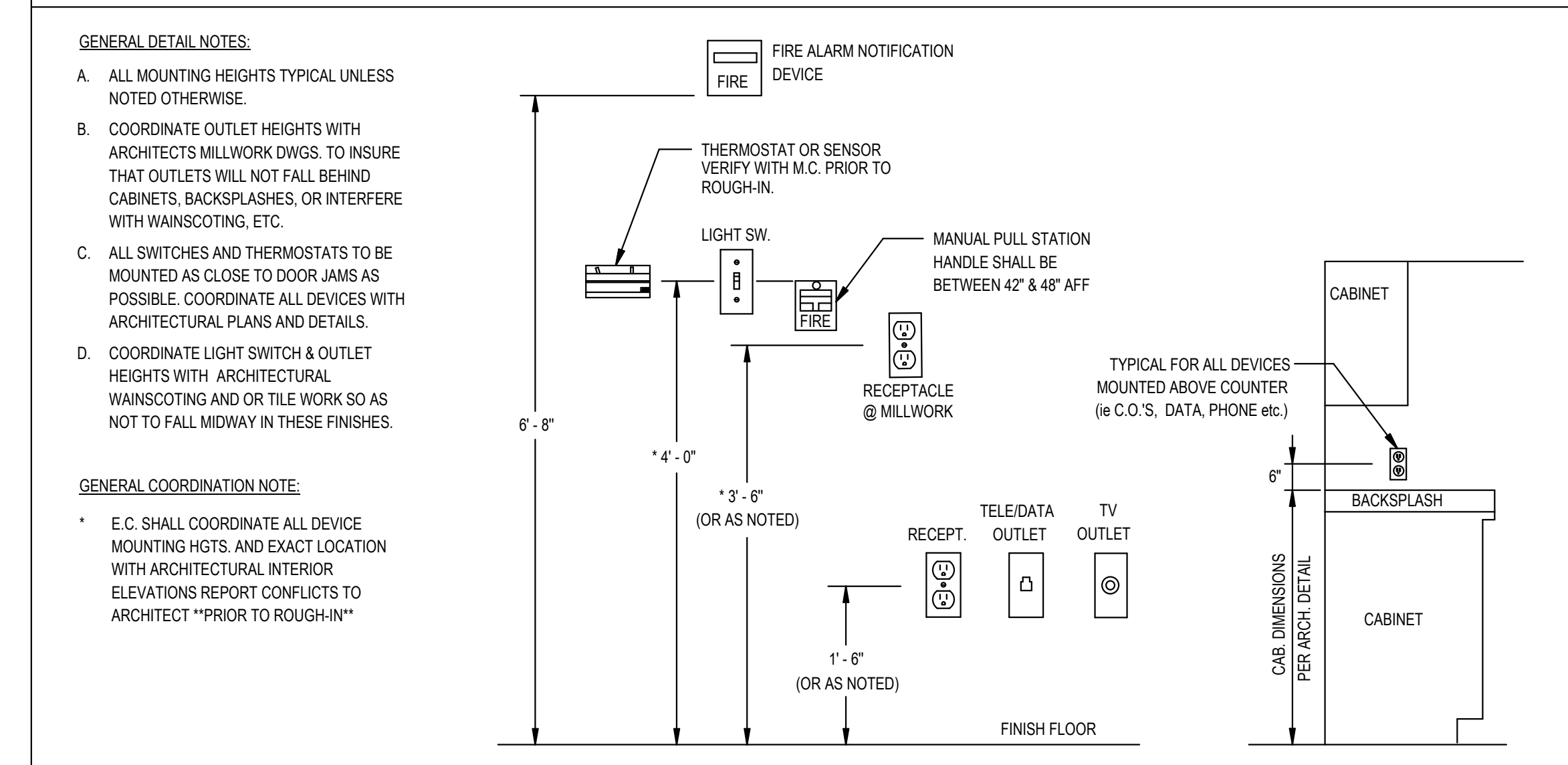
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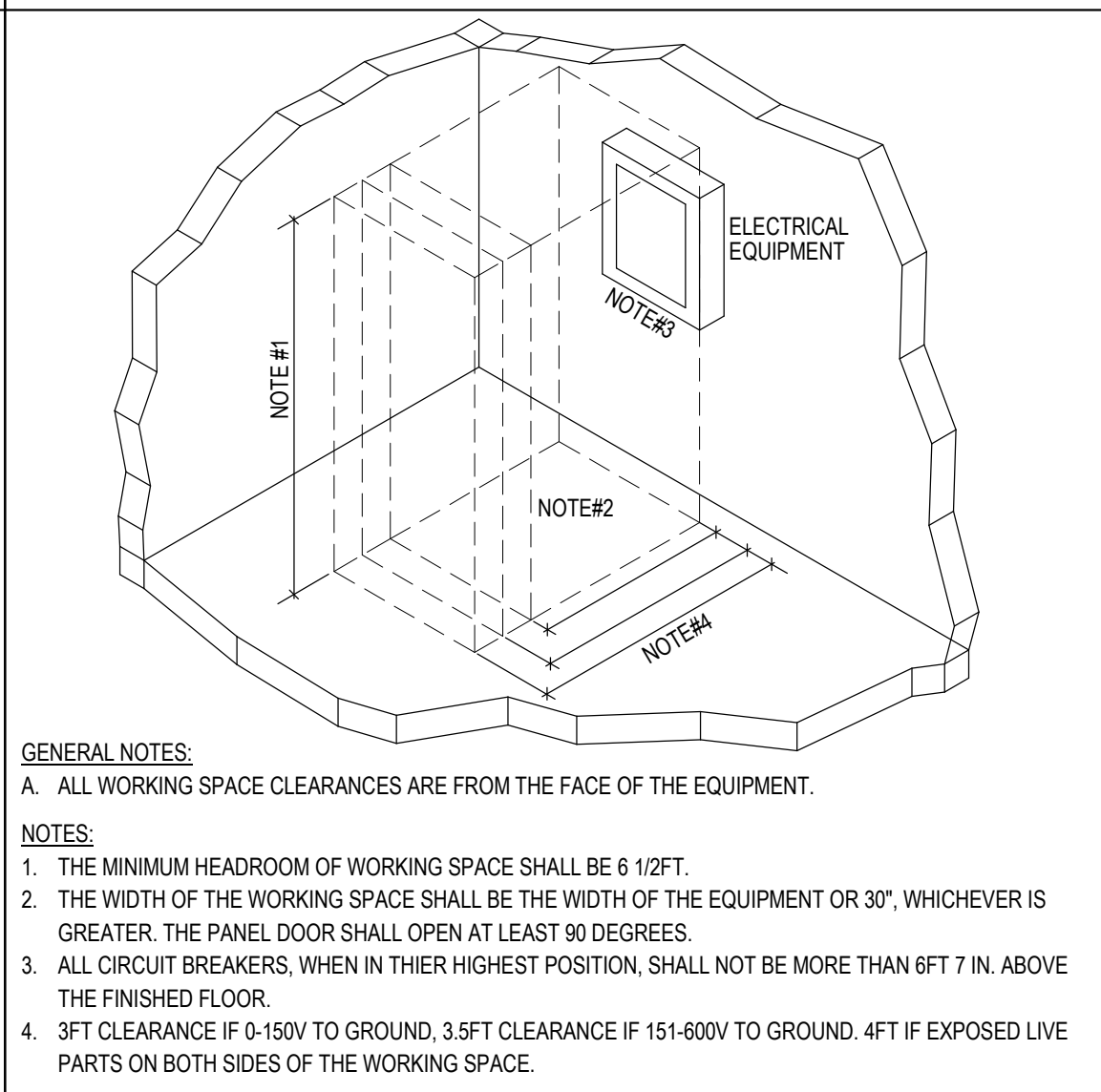
M2.1

LIGHTING SYMBOL SCHEDULE		POWER SYMBOL SCHEDULE		SPECIAL SYSTEMS SYMBOL SCHEDULE		CIRCUITING & GENERAL SYMBOL SCHEDULE		ABBREVIATIONS					
NOTE: ALL SYMBOLS MAY NOT BE USED		NOTE: ALL SYMBOLS MAY NOT BE USED		NOTE: ALL SYMBOLS MAY NOT BE USED		NOTE: ALL SYMBOLS MAY NOT BE USED							
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	P	SINGLE POLE	V	KILOVOLT		
F1	LIGHT FIXTURE TYPE DESIGNATION		ELECTRICAL SWITCHBOARD EQUIPMENT, (SEE POWER RISER AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION)		DATA OUTLET; _ = # OF DATA CABLES, X=CONDUIT SIZE (SEE NOTES 1,2,3 BELOW)		KEYED NOTE REFERENCE	1PH	SINGLE-PHASE	KVA	KILOVOLT AMPERE		
	PARKING AREA POLE LIGHT, SINGLE OR DOUBLE HEAD AS INDICATED ON DRAWINGS. REFER TO LIGHT POLE DETAIL FOR POLE INFORMATION.		DRY-TYPE TRANSFORMER, (SEE POWER RISER FOR ADDITIONAL INFORMATION)		CEILING MOUNTED DATA OUTLET; _ = # OF DATA CABLES, X=CONDUIT SIZE (SEE NOTES 1,2,3 BELOW)		DETAIL # / SHEET REFERENCE	2/C	TWO-CONDUCTOR	KW	KILOWATT		
	EXTERIOR WALL MOUNTED FIXTURE		ELECTRICAL PANELBOARD, (SEE POWER RISER AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION)		TELEPHONE OUTLET; _ = # OF TELEPHONE CABLES, X=CONDUIT SIZE (SEE NOTES 1,2,3 BELOW)		BRANCH CIRCUIT HOME-RUN TO PANEL INDICATED	3P	THREE-CONDUCTOR	KWH	KILOWATT HOUR		
	2X4 FLUORESCENT OR LED FIXTURE		DISCONNECT SWITCH, SIZE/POLES/TYPE AS INDICATED TYPES: 1=NEMA 1, 3R=NEMA 3R, 4X=NEMA 4X		TELEPHONE/DATA OUTLET; _ = # OF TELEPHONE/DATA CABLES, X=CONDUIT SIZE (SEE NOTES 1,2,3 BELOW)			3PH	THREE POLE	LED	LIGHT EMITTING DIODE		
	2X2 FLUORESCENT OR LED FIXTURE		FUSED DISCONNECT SWITCH, SIZE/POLES/TYPE AS INDICATED TYPES: 1=NEMA 1, 3R=NEMA 3R, 4X=NEMA 4X		MULTI-SERVICE FLOORBOX; SEE FLOORBOX SCHEDULE FOR ADDITIONAL INFORMATION. _ = # OF DATA CABLES, X=CONDUIT SIZE (SEE NOTES 1,2,3 BELOW)		QTY & SIZE OF EQUIPMENT GROUND CONDUCTOR QTY & SIZE OF NEUTRAL AND PHASE CONDUCTOR(S) SIZE OF CONDUIT	3W	THREE-WIRE	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT		
	SURFACE MOUNTED FLUORESCENT OR LED FIXTURE		COMBINATION STARTER & FUSED DISCONNECT SWITCH, SIZE/POLES/TYPE AS INDICATED. TYPES: 1=NEMA 1, 3R=NEMA 3R, 4X=NEMA 4X		RECESSED IN-WALL AV/TV ENCLOSURE, (SEE NOTE 2 BELOW) 2-GANG: HUBBELL# NSAV62M / NSAV6C 4-GANG: HUBBELL# NSAB124M / NSAV12C (1) POWERKIT HBLUNSOKPS & (1) DATA PLATE W. TERMINATIONS. MOUNT 5'-0" AFF. FIELD COORDINATE WITH TV LOCATION PRIOR TO ROUGH-IN. INSTALL 1 1/4" CONDUIT FROM ENCLOSURE TO NEAREST ACCESSIBLE CEILING SPACE W/ DATA CABLEING/TERMINATIONS AS INDICATED ON DRAWINGS. INSTALL 1 1/4" CONDUIT FROM ENCLOSURE TO FLOORBOX IN ROOM WHERE INDICATED ON DWGS.		TICK MARKS	4W	FOUR-WIRE	LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT		
	STRIP FLUORESCENT OR LED FIXTURE						— EQUIPMENT GROUNDING CONDUCTOR — NEUTRAL CONDUCTOR(S) — PHASE AND/OR SWITCH-LEG CONDUCTOR(S)	AC	ABOVE COUNTER	LTG	LIGHTING		
	WALL MOUNTED FLUORESCENT OR LED FIXTURE					[*25,000A]	CALCULATED AVAILABLE FAULT CURRENT AT EQUIPMENT(SEE POWER RISER)	ADA	AMERICANS WITH DISABILITIES ACT	LV	LOW VOLTAGE		
	ROUND RECESSED FIXTURE					-----	BRANCH CIRCUIT/FEEDER CONCEALED IN CEILING OR WALL	AFB	ABOVE FINISHED FLOOR	MAX	MAXIMUM		
	SURFACE OR PENDANT FIXTURE					-----	BRANCH CIRCUIT/FEEDER CONCEALED UNDERGROUND OR FLOOR	AFG	ABOVE FINISHED GRADE	M.C.	MECH. CONTRACTOR		
	EXIT SIGN, WALL OR CEILING MOUNTING AS REQUIRED (SINGLE OR DOUBLE FACE) DIRECTIONAL CHEVRONS AS INDICATED; CONNECT TO UNSWITCHED LEG OF LIGHTING CIRCUIT THAT IS IN THE SAME AREA AS THE EXIT SIGNS.					-----	NEW EQUIPMENT, DEVICES, ETC.	AIC	AMPERE INTERRUPTING CAPACITY	MCA	MINIMUM CIRCUIT AMPS		
	WALL OR CEILING MOUNTED EMERGENCY LIGHTING UNIT W/BATTERY PACK CONNECT TO UNSWITCHED LEG OF LIGHTING CIRCUIT THAT IS IN THE SAME AREA AS THE EMERGENCY LIGHT.					-----	EXISTING EQUIPMENT, DEVICES, ETC.	AL	ALUMINUM	MCB	MAIN CIRCUIT BREAKER		
	SHADED FIXTURE INDICATES AN EMERGENCY FIXTURE. PROVIDE WITH EMERG. BATTERY PACK OR CONNECT TO EMERGENCY POWER SYSTEM (WHERE APPLICABLE). CONNECT BATTERY PACK TO UNSWITCHED LEG OF LIGHTING CIRCUIT THAT SERVES THE SAME AREA AS THE EMERGENCY FIXTURE. PROVIDE WITH TEST LIGHT AND SWITCH.					-----	DEMOLITION EQUIPMENT, DEVICES, ETC.	A or	AMPERE	MCC	MOTOR CONTROL CENTER		
	CEILING MOUNTED OCCUPANCY SENSOR, REFER TO OCCUPANCY SENSOR/SWITCH SCHEDULE FOR SENSOR TYPE AND ADDITIONAL INFORMATION.					PROJECT GENERAL NOTES:  A. E.C. SHALL REFER TO THE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND ELECTRICAL CONNECTIONS. B. E.C. SHALL PROVIDE MINIMUM WORKING CLEARANCE AS PER NEC BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS. SEE ELECTRICAL EQUIPMENT CLEARANCE DETAIL. C. INSTALL ALL LIGHT FIXTURES IN MECHANICAL ROOM AFTER THE MECHANICAL EQUIPMENT IS IN PLACE. ADJUST AS NECESSARY. PROVIDE CHAIN SUSPENSION KITS AS REQUIRED. D. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN(S) FOR EXACT FIXTURE LOCATIONS, CEILING TYPES, ETC. E. E.C. SHALL PROVIDE ALL CONCRETE PADS AS REQUIRED FOR ALL ELECTRICAL EQUIPMENT. F. CONFIRM EXACT LOCATIONS OF ALL TELEPHONE/DATA OUTLETS WITH OWNER PRIOR TO ROUGH-IN. G. LOCATE SWITCHES, OUTLETS, ETC., SHOWN AT ROOM ENTRY DOORWAYS, AS CLOSE TO DOOR FRAME AS POSSIBLE. SO AS NOT TO INTERFERE WITH ROOM CABINETS, ETC. H. SUPPORT ALL LIGHT FIXTURES INDEPENDENT OF CEILING. I. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS FOR WORK AND PAY ASSOCIATED FEES. J. MAINTAIN 24" MIN. CLEARANCE FROM ALL COMMUNICATIONS CABLEING AND ELECTRONIC BALLASTS. K. UNLESS SPECIFICALLY INDICATED OTHERWISE, E.C. SHALL COORDINATE WITH ANY SPECIAL SYSTEMS SUPPLIERS/SHOP DRAWINGS; DENTAL, MEDICAL, KITCHEN, SPECIALIZED EQUIPMENT, ETC. FOR THE EXACT ROUGH-IN REQUIREMENTS FOR THEIR EQUIPMENT. ALSO UNLESS INDICATED OTHERWISE, THE E.C. TO BE RESPONSIBLE FOR FINAL ELECTRICAL CONNECTIONS TO ALL SPECIAL EQUIPMENT. L. ALL CONDUIT/TRACEWAY/CABLES TO BE CONCEALED IN WALLS OR ABOVE CEILINGS. IF ANY SURFACE WORK IS NECESSARY, IT SHALL BE APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. M. ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND THOROUGHLY INVESTIGATE THE EXISTING CONDITIONS, AS THEY RELATE TO THE SCOPE OF WORK DESCRIBED. MAKE NECESSARY PROVISIONS IN THE BASE BID TO ADEQUATELY ACCOMMODATE THESE CONDITIONS. N. DATA CABLEING SYSTEM PRE-INSTALLATION CONFERENCE: 1. E.C. SHALL SCHEDULE A MEETING A MINIMUM OF FIVE CALENDAR DAYS PRIOR TO BEGINNING DATA CABLEING INSTALLATION. ATTENDEES SHOULD INCLUDE OWNER'S REP., ENGINEER, GC, EC AND CABLEING SUB. REFER TO SECTION 26 6210(1.4)(E) FOR ADDITIONAL INFORMATION.		AV	VIDEO	D	DATA		
	SWITCH MOUNTED OCCUPANCY SENSOR OR LOW VOLTAGE SWITCHPOO, REFER TO OCCUPANCY SENSOR/SWITCH SCHEDULE FOR TYPE AND ADDITIONAL INFORMATION.							-----		OC	ON CENTER	OH DR	OVERHEAD DOOR
	SINGLE-POLE SWITCH (SEE SUB-SCRIPTS BELOW FOR ADDITIONAL INFORMATION)							-----		OL	OVERLOAD	PB	PUSHBUTTON
LIGHT FIXTURE SUBSCRIPTS								ENT	ELECTRICAL METALLIC TUBING	P	PHASE		
NL NIGHT-LIGHT(CONNECT TO UNSWITCHED LEG OF CIRCUIT)								ENT	ELECTRICAL NONMETALLIC TUBING	PNL	PANEL		
SWITCH SUBSCRIPTS								EPO	EMERGENCY POWER OFF	PT	POTENTIAL TRANSFORMER		
3 3-WAY SWITCH	LV LOW-VOLTAGE SWITCH (PER DWG'S)							EQUIP	EQUIPMENT	PTZ	PAN/TILT/ZOOM		
4 4-WAY SWITCH	T THERMAL-OVERLOAD SWITCH							EX	EXISTING	QTY	QUANTITY		
D DIMMER SWITCH (COMPATIBLE W/ LOAD & LTG TYPES)	M SWITCH SUPPLIED WITH EQUIPMENT, INSTALLED BY E.C.							FA	FIRE ALARM	RCP	REFLECTED CEILING PLAN		
ELV DIMMER: ON/OFF W/ SLIDE, SINGLE OR 3-WAY	WP WEATHERPROOF							FACP	FIRE ALARM CONTROL PANEL	RMC	RIGID METAL CONDUIT		
0-10V DIMMER: ACUTY P/N: sP0DMRA(MWO)-D-**	2P DOUBLE POLE, SINGLE THROW SWITCH							FLA	FULL LOAD AMPS	RNC	RIGID NONMETALLIC CONDUIT		
K KEYED SWITCH								FMC	FLEXIBLE METAL CONDUIT	SCA	SHORT CIRCUIT AMPS		
F TIMER SWITCH (INTERMATIC MODEL E1400 SERIES)								GND	GROUND	SCBA	STANDARD COLOR BY ARCHITECT		
P PILOT LIGHTED SWITCH								G.C.	GENERAL CONTRACTOR	SCF	SQUARE FOOT (FEET)		
GENERAL LIGHTING NOTES:								GEN	GENERATOR	SPD	SURGE PROTECTION DEVICE		
A. SYMBOLS SHOWN ABOVE MAY NOT REPRESENT ALL LIGHT FIXTURES USED ON PROJECT, REFER TO LIGHT FIXTURE SCHEDULE FOR ACTUAL FIXTURE INFORMATION INCLUDING FIXTURE TYPE, LAMPING, MOUNTING AND ETC.								GFI	GROUND FAULT CIRCUIT INTERRUPTER	SPEC	SPECIFICATION		
B. JUNCTION BOXES FOR LIGHTING CIRCUITING ARE NOT SHOWN FOR CLARITY. THE E.C. IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL JUNCTION BOXES REQUIRED FOR CIRCUITING OF ALL LIGHT FIXTURES THAT ARE NOT LISTED FOR "THROUGH-BRANCH CIRCUIT WIRING".								GFP	GROUND FAULT PROTECTION	SWBD	SWITCHBOARD		
C. IN GENERAL ALL SWITCH-LEG CONDUCTORS MAY NOT BE SHOWN ON DRAWINGS; E.C. SHALL PROVIDE AND INSTALL CONDUCTORS AS REQUIRED TO ACHIEVE CONTROL SCHEMES INDICATED AND DESCRIBED ON DRAWINGS. INCLUDING ALL 0 - 10V DIMMING CONTROLS BETWEEN SWITCH AND FIXTURES.								HD	HEAVY DUTY	SWGR	SWITCHGEAR		
D. ALL BATTERY EXIT SIGNS AND EMERGENCY LIGHTING TO BE CONNECTED TO THE UNSWITCHED LEG OF THE LIGHTING CIRCUIT IN THE AREA.								HID	HIGH INTENSITY DISCHARGE	TL	TWIST LOCK		
								HOA	HAND-OFF-AUTOMATIC	TP	TWISTED PAIR		
								HP	HORSE POWER	TTB	TELEPHONE TERMINAL BOARD		
								HPS	HIGH PRESSURE SODIUM	TV	TELEVISION		
								HV	HIGH VOLTAGE	TYP	TYPICAL		
								HZ	HERTZ	UG	UNDERGROUND		
								IG	ISOLATED GROUND	UPS	UNINTERRUPTIBLE POWER SUPPLY		
								IMC	INTERMEDIATE METAL CONDUIT	V	VOLTS		
								J-BOX	JUNCTION BOX	VA	VOLT AMPERE		
										V.I.F.	VERIFY IN FIELD		
										VFD	VARIABLE FREQUENCY DRIVE		
										W/	WITH		
										W/O	WITHOUT		
										WP	WEATHERPROOF		
										XFMR	TRANSFORMER		

## TYPICAL DEVICE MOUNTING HEIGHTS:



## ELECTRICAL EQUIP. CLEARANCE



## UTILITY LIGHTING REBATES & INCENTIVES:

IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PREPARE ALL REQUIRED APPLICATIONS AND INFORMATION REQUIRED TO PROVIDE THE OWNER WITH THE MAXIMUM AMOUNT OF REBATE DOLLARS FROM THE LOCAL UTILITY COMPANY. THE ELECTRICAL CONTRACTOR SHALL SUBMIT VERIFICATION OF THE UTILITY COMPANY PRE-APPLICATION APPROVAL PRIOR TO ORDERING ANY MATERIALS.

VISIT THE FOLLOWING UTILITY CO. WEBSITES FOR INFORMATION:

**IDAHO POWER CO.**  
WWW.IDAHOPOWER.COM  
CONTACT:  
SHELLEY MARTIN (208) 388-5872  
OR DAN KUHL (503) 308-0233  
dan.kuhl@evergreen-efficiency.com

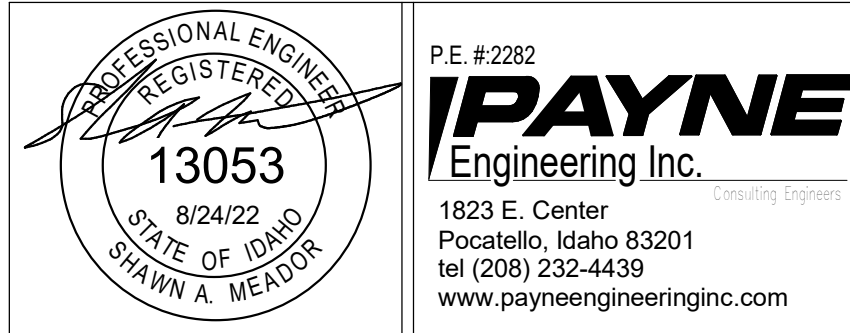
**ROCKY MOUNTAIN POWER CO.**  
WWW.ROCKYMOUNTAINPOWER.NET  
CONTACT:  
DAN KUHL (503) 308-0233  
dan.kuhl@evergreen-efficiency.com

A REMODEL FOR:  
**FHS URGENT CARE**  
260 3rd Ave N  
**ELECTRICAL SYMBOLS & DETAILS**

**Laughlin Ricks Architecture**  
—architecture/planning—  
134 3RD AVE. E. \* Twin Falls, Idaho 83201  
PHONE: (208) 736-8050

DATE: 8/24/22  
BP Drawn SAM Checked

**E0.0**





GENERAL ELECTRICAL REQUIREMENTS

- 1.1 Submittals:
- A. As-Built Drawings -
    - 1. Provide as-built drawings per Division 01 requirements.
  - B. Shop Drawings -
    - 1. Prepare submittal for each item of equipment and attach written approval to each indicating that requirements for testing and demonstrating system have been complied with and that shop drawings are correct.
    - 2. Do not purchase equipment before completion of shop drawing review.
  - C. Submit electrical drawings immediately after the award of contract to the local utility companies for their review. All utility charges will be paid by the Owner. Contractor shall coordinate with the utility companies and obtain all required charges and turn over to Owner.

1.2 Requirements of Regulatory Agencies:

- A. Furnish UL listed equipment where such label is available. Install in conformance with UL standards where applicable.
- B. Install electrical work in accordance with Drawings and Specifications, edition of NEC in effect at project location, recommendations of NFPA, state and local electrical and building codes, and special codes having jurisdiction over specific portions of work. This includes, but is not limited to the following:
  - 1. Current National Electrical Code with applicable local amendments
  - 2. Current Life Safety Code, NFPA 101.
  - 3. Current International Fire Code
  - 4. Current International Building Code
- C. In the event of conflict between Drawings, Specifications and such codes, notify Engineer in writing prior to bid. A ruling will then be made by Engineer in writing.
- D. Obtain permits and certificates of approval from all authorities having jurisdiction over the installation and pay all fees required for scope of work being done.
- E. Coordinate the electrical drawings with all other project drawings and trades prior to an rough-in.

2.1 Substitutions:

- A. Where Manufacturer's names appear, other Manufacturers may be substituted upon obtaining written approval of Engineer at least 10 days prior to opening of bids.
- B. Any prior approval of alternate equipment does not automatically exempt the supplier from meeting the intent of these specifications. Failure to comply with the operational and functional intent of these specifications may result in the total removal of the alternate system at the expense of the contractor.

3.1 Installation:

- A. Contractor shall visit the site and become acquainted with the conditions to be encountered. Extra funds will not be allowed due to failure to examine the site and include these conditions in the base bid price.
- B. Confirm dimensions, ratings, and specifications of equipment to be installed and coordinate these with site dimensions and with other Sections.
- C. Electrical drawings are diagrammatic. Do not scale for exact sizes or locations. Drawings are not intended to disclose absolute or unconditional knowledge of actual field conditions.
- D. Be prepared to relocate any outlet or device 6 feet in any direction without additional charge to the owner prior to wall, ceiling, or floor finish materials being installed.
- E. Install equipment according to manufacturer's recommendations.
- F. Provide electrical equipment for and make all connections to equipment furnished by others, including but not limited to items such as fire pumps, pools, kitchen equipment, medical equipment, etc. as required for a complete and operable system.

3.2 Field Quality Control:

- A. Test systems and demonstrate equipment as working and operating properly. Rectify defects at no additional cost to Owner.
- B. All work under this division shall be executed in a thorough workmanlike manner, as determined by the Engineer, by competent and experienced journeyman electricians
- C. All work shall be installed in strict conformance with all manufacturers requirements and recommendations.

3.3 Fire Stopping and Sealing:

- A. Seal around conduits or other wiring materials passing through fire rated walls in accordance with Architectural details and/or specifications.

3.4 Cutting and Patching

- A. Cut all openings required to install the work of this Division or to repair any defective work. Cost for all cutting and patching required by the work of this Division shall be included, however, the actual cutting and patching shall be under the Prime Contractor's direction. Exercise due diligence to avoid cutting openings larger than required or openings that are in the wrong locations.
- B. It is the intent to minimize the amount of exposed conduit on the roof and penetrations through the roof. Install conduit below roof and up through the inside of the equipment where possible. In the event roof penetrations must be made, the conduit shall be installed through waterproof sheetmetal housings or water proof pitch pans as detailed on the drawings.

3.5 Identifications:

- A. Provide for each dimmer, panelboard, terminal cabinet, motor starter, motor controller, pushbutton, control switch, time clock, etc., furnished and/or installed under this Division of the Specifications, with identification as to its designation or specific function. Identification shall be a laminated, white core, black plastic nameplate with beveled edges. Lettering shall be machine-engraved, not less than 3/16 in. high, cut through the black surface to the white core. Secure nameplate to the identified item by the use of stainless steel self-tapping screws. Impressed plastic shall not be used to satisfy this requirement. Panel schedules shall be typed.

3.6 Guarantee-Warranty:

- A. Prior to final acceptance of the project deliver to the Owner a written one year guarantee on all workmanship, materials and equipment and agree to repair or replace all such defective items promptly that occur during this period.
- B. Guarantee work to be free from defects of materials and workmanship for a period of one year from date of final acceptance of building by authorities having jurisdiction.
- C. Furnish owner with three written copies of Guarantee-Warranty.

3.7 Clean-Up:

- A. Upon completion of the project, prior to final inspection, contractor shall thoroughly clean all exposed light fixtures, trim and equipment and leave the entire installation in a neat, clean and usable condition. Remove all cement, paint, grease, oil and any other foreign substances from all electrical devices, fixtures, and panels installed under this specification.

3.8 Testing:

- A. Contractor shall test all conductors for shorts, opens, grounds or other defects. Correct and/or replace any defective equipment, devices, conductors, light fixtures, etc. prior to final inspection. Demonstrate continuous and satisfactory operation of all electrical equipment and systems that where installed.

END OF SECTION

BOXES

1.1 General:

- A. All boxes shall be per NEC and sized per code based on the number of conductors entering and leaving each box.
- B. All boxes shall be a minimum of 1/5" deep, 4" x 4" square or octagonal when used with fixtures unless a larger box is required by the device or due to the number of conductors being installed in the boxed in order to meet fill capacity of the NEC.
- C. All boxes shall be pressed steel galvanized type, unless otherwise noted on the drawings. Boxes in masonry, block or tile walls shall be square corner type.

2.1 Outlet Boxes:

- A. Galvanized steel, and correct size and shape.
  - B. Provide metal supports and other accessories for installation of each box.
  - C. Equip ceiling and bracket fixture boxes with fixture studs where required.
  - D. Equip outlets with extensions as required to bring box flush with finish surface.
- 3.1 Installation:
- A. Boxes shall be accessible and installed with approved cover.
  - B. Sectional boxes shall not be used in concrete.
  - C. Locate boxes so outlets are not obstructed by pipes, ducts, or other items.
  - D. Install outlets flush or not more than 1/4 inch behind finished surface and level and plumb.
  - E. Boxes for switches shall generally be located within 6 inches of door jamb.
  - F. Color code emergency systems boxes in accordance with NEC and General Electrical Notes on drawings.
  - G. Where boxes are located on opposite sides of fire or smoke rated wall assembly, separate boxes a minum of 24", or as otherwise required to maintain rating of wall.
  - H. Identify all outlet, junction and pull boxes according to the system carried, by means of painted on stencils or labels with legible letters and contrasting colors and without abbreviations.

END OF SECTION

RACEWAYS

2.1 Conduit:

- A. Minimum size is 1/2 inch unless indicated otherwise and use restricted as indicated by product.
- B. The conduit types shall be as follows, installed per locations and requirements of the NEC, these specifications and so installed:
  - 1. RMC - Rigid Metal Conduit
  - 2. IMC - Intermediate Metal Conduit
  - 3. EMT - Electrical Metallic Tubing
  - 4. Schedule 40 & 80 PVC (Underground use only)
  - 5. LFMC - Liquidtight Flexible Metal Conduit

2.2 Fittings:

- A. Set-screw type with steel housing and insulated throat for EMT conduits
- B. Screw-in type for flexible metal conduit.
- C. Sealtype type for liquid-tight flexible metal conduit.
- D. PVC -
  - 1. PVC fittings shall be PVC type. Use PVC adapters at all boxes.
  - 2. Brush apply PVC cement.
  - 3. All PVC components, (conduit, fittings, cement) shall be from same Manufacturer.
- E. Rigid & IMC conduit fittings shall be threaded and designed for conduit use.

2.3 Prohibited Materials:

- A. Rigid aluminum conduit.
- B. Crimp-on, lap-on, indenter type fittings.
- C. Malleable iron or cast set-screw fittings for EMT.
- D. Spray (aerosol) PVC cement.
- E. Type AC Cable
- F. Smurf Tube

3.1 Installation:

- A. Conceal raceways within ceilings, walls and floors except where exposed raceways are specifically permitted.
- B. Keep raceway runs 6 inches minimum from hot water pipes.
- C. Support conduit and boxes in an approved manner according to the NEC by -
  - 1. Expansion shields in concrete or solid masonry.
  - 2. Toggle bolts on hollow masonry units.
  - 3. Wood screws on wood.
  - 4. Metal screws on metal.

- D. Secure conduit with approved supports within 3 feet of every outlet box, junction box, gutter, panel, fitting, etc. Do not space supports further apart than 10 feet.
- E. Cap conduit ends during construction.
- F. Clean or replace conduits in which water or foreign matter have accumulated.
- G. Install insulated bushings on each end of conduit 1-1/4 inches in diameter and larger.
- H. Install grounding conductor in PVC conduit.
- I. Bending of PVC shall be by hot box
- J. Route exposed conduit and conduits installed above lay-in ceilings at right angles or parallel to walls of building, not "as the crow flies". Neatly rack parallel conduits together and make bends uniform to one another. Where installation is made inferior utilizing poor practice contrary to these methods as determined by the Engineer, said installation will be removed and reinstalled at contractor's expense.
- K. Coat buried rigid or IMC conduit with approved asphaltic compound or wrap with two layers of approved corrosion protection tape.
- L. Leave one #10 or equivalent nylon pull wire in empty conduits.
- M. When PVC conduit is used, turn up with rigid galvanized elbows and provide equipment grounding conductor in accordance with NEC, Article 250.
- N. Cut and thread conduit so ends will butt in couplings. Make threads no longer than necessary and ream pipe free of burrs.
- O. All conduit that passes through a fire rated wall or floor shall use approved fire stops even if not shown on drawings.
- P. Provide all flex connections to all equipment and transformers. Seal-type (LFMC) shall be used for all connections to motors, exterior equipment, and kitchen equipment.
- Q. Where conduits penetrate walls, ceilings and/or floors the contractor shall patch around conduit to form a tight seal and the surface around the conduit shall match the surrounding surface.
- R. Contractor shall furnish and install necessary roof jacks for all roof penetrations.

3.2 Prohibited Procedures:

- A. Use of wooden plugs inserted in concrete or masonry units as base for fastening conduits, tubing, boxes, cabinets, or other equipment.
- B. Installation of conduit or tubing which has been crushed or deformed.
- C. Torches for bending PVC conduit.
- D. PVC conduit inside of the building.

END OF SECTION

WIRES & CABLES

2.1 Applications:

- A. Service Entrance: Type XHHW or THWN, Copper conductors in raceway.
- B. Feeders: Type THHN, XHHW or THWN, Copper conductors in raceway. Minimum Size #4 AWG.
- C. Branch Circuits:
  - 1. Type THHN, XHHW or THWN, Copper conductors in raceway. Minimum Size #12 AWG.
  - 2. MC Cable may be used in accordance with local AHJ and NEC.
  - 3. Branch Circuit wiring within Patient Care areas (Exam Rooms, Etc.) shall be provided with a redundant ground per the NEC Section 517.
- D. Class 1 Control Circuits: Type THHN, XHHW or THWN, Copper conductors in raceway. Minimum Size #18 AWG.

2.2 Conductors:

- A. All wire shall be copper unless otherwise noted.
- B. All Conduit is sized for THW wiring. If contractor uses other than this it will be their responsibility to size conduit to meet NEC conduit fill requirements.
- C. Motor Circuits from the disconnect to the motor shall be type THW or XHHN stranded.
- D. #12 and #10 wire may be solid or stranded for lighting circuits, stranded only for power circuits.

2.3 Connectors:

- A. Type 512, 3M tapeless steel spring wire connectors or pressure type terminal lugs as specified.

3.1 Installation:

- A. Install conductors in raceway unless indicated otherwise.
- B. Pulling Conductors -
  - 1. Do not pull conductors into conduit until raceway system is complete and cabinets and outlet boxes are free of foreign matter and moisture.
  - 2. Do not use heavy mechanical forces for pulling conductors.
  - 3. Only wire pulling lubricant may be used.
- C. Conductors shall be continuous from outlet to outlet.
- D. Make splices for conductors No. 8 and smaller with steel spring wire connections. Splice larger conductors with Lock-Title type silicon bronze type connectors. Insulate connections of No. 8 wire and larger with 3M #33 tape.
- E. Provide flexible conduit or cord sets for all equipment as required per that piece of equipment as determined by cutsheets and/or field conditions.
- F. Multi-wire Branch Circuits are **NOT** allowed.
- G. Individual branch circuits may be combine into a common raceway provided the de-rating factors of the NEC are met.
- H. Leave a minimum of 6" pigtail for all outlet and switch connections.
- I. Tag all feeder and branch circuit conductors in all enclosures, boxes, panels etc. to indicate the circuit and panel from which it is fed.

END OF SECTION

WIRING DEVICES

2.1 Switches and Receptacles:

- A. Switches shall be Specification grade, Color by Owner, rated 20A, 120-277V.
- B. Receptacles shall be Specification grade, Color by Owner, rated 20A, 120V. Mounted at 18" AFF in vertical position, unless otherwise noted.
- C. Color shall be same as plate. Verify color with architect before ordering devices.

2.3 Weatherproof Receptacles:

- A. GFCI type, Specification grade, color to match receptacles, rated 20A, 120V
- B. Provide weatherproof cover as required by the NEC.

2.4 Plates:

- A. Finished Spaces: Nylon, fiberglass, or high impact resistant plastic nylon, Color by Owner. The use of sectional type device plates are not permissible.
- B. Unfinished Spaces: Galvanized steel, surface-mounted boxes.
- C. Jumbo plates are not acceptable.

3.1 Installation:

- A. Provide proper size outlet boxes for all wiring devices of types specified in outlet and junction box section of these specifications.
- B. Receptacles shall be "pig-tailed" connected, so that a failure of a receptacle will not affect the remaining receptacles downstream. Utilizing the receptacle for in/out wiring is prohibited.
- C. Properly wire all convenience outlets so that the hot wire, the neutral wire and the ground wire connect to the proper terminal on all receptacles.
- D. Mount wall switches on lock side of doors not more than 12 inches from trim and in accordance with barrier free design standards.
- E. Provide GFI receptacles in areas required by the National Electrical Code whether indicated on the drawings or not.
- F. All devices shall be grounded per NEC.
- G. Where devices are located above counter tops, coordinate exact location with the millwork hop drawings prior to rough-in.

END OF SECTION

GROUNDING

1.1 Summary:

- A. Includes But Not Limited To -
  - 1. Furnish and install grounding for entire electrical installation as specified below and described in Contract Documents.
    - a. Electrical service, its equipment and enclosures.
    - b. Conduits and other conductor enclosures.
    - c. Neutral or identified conductor of interior wiring system.
    - d. Power and lighting panelboards.
    - e. Non-current-carrying metal parts of fixed equipment such as motors, starter and controller cabinets, and lighting fixtures.

1.2 General:

- A. Provide all grounding as required by the NEC and Local Authority.
- 2.1 Components:
- A. Size materials as shown on Drawings and in accordance with applicable codes.
  - B. Ground Conductors - Copper with green insulation or bare.
  - C. Make grounding conductor connections to grounding electrodes and water pipes using approved bolted clamps of bronze or brass designed for such use.

3.1 Installation:

- A. Install a grounding electrode system at the service entrance equipment or location indicated on the Drawings, bond all grounding electrodes that are available as per NEC Section 250.
- B. Grounding connection to main water supply shall be accessible for inspection and made within 6 inches of point of entrance of water line to building or ahead of electric, if used, on meter side.
- C. Provide concrete-encased electrode system by embedding 20 feet minimum of #1/0 bare copper conductor in concrete footing, 2 inches minimum below concrete surface. Extend # 1/0 copper conductor to main panel as shown on Drawings.
- D. Ground identified grounded (neutral) conductor of electrical system on supply side of main service disconnect.
- E. Install a green equipment grounding conductor for all feeders and branch circuits, using the conduit as the grounding conductor is NOT acceptable. Use same size ground as phase conductors up through #10 AWG. Use NEC Table 250-122 for all others unless noted otherwise on Drawings.

END OF SECTION

PANELBOARDS

2.1 Main Distribution Panel:

- A. AIC rating; refer to panel schedules
- B. Bussing shall be Copper or Aluminum.
- C. Multi-pole breakers shall be common trip.
- D. Enclosures -
  - 1. NEMA Type 3R enclosure and locking door where installed outside.
  - 2. NEMA Type 1 enclosure where installed inside.
- E. Covers
  - 1. Hinged trim - trim has piano hinge down one side. Door opens by single latch; Entire trim opens by removing screws.
- F. Rated for use as service entrance equipment and to comply with requirements of local serving agency.
- G. Provide a minimum of three spaces for future feeder breaker installation.
- H. Approved Manufacturers -
  - 1. Square D
  - 2. General Electric
  - 3. Cutler Hammer

2.2 Lighting & Distribution Panelboards:

- A. AIC rating; refer to panel schedules
- B. Bussing shall be Copper.
- C. Bolt-on breakers. Multi-pole breakers shall be common trip.
- D. Cabinets shall be locking type with no exposed latches or screws when door is closed. Key panels alike and provide minimum of three keys.
- E. Enclosures -
  - 1. NEMA Type 3R enclosure and locking door where installed outside.
  - 2. NEMA Type 1 enclosure where installed inside.
- F. Covers
  - 1. Hinged trim - trim has piano hinge down one side. Door opens by single latch; Entire trim opens by removing screws.
- G. Minimum dimensions of 20 inches wide by 5-3/4 inches deep.
- H. Quality Standard -
  - 1. Type NQ or NF by Square D

3.1 Installation:

- A. Provide typewritten circuit schedules in lighting and distribution panelboards to identify panelboard and each branch breaker. Hand written schedules are NOT acceptable.
- B. Wiring gutter for panels shall be in accordance with the NEC.
- C. Provide plastic laminated labels on all panelboard covers and associated feeder breaker in main distribution panel to identify panelboards.
- D. Provide protection for installed breakers during construction to prevent physical damage, paint splatters, etc.
- E. All panelboards shall be keyed alike.
- F. Utilize HACR rated breakers for all HVAC equipment.
- G. Circuit breakers used as a switching device shall be rated for use and marked by the manufacturer.
- H. Clean out all dirt and debris from all electrical equipment, panels and switchgear.
- I. Install all panels and switchgear so it is structurally sound and does not affect the structure on which it is mounted.

END OF SECTION

LIGHTING

2.1 Lighting Fixtures:

- A. Lighting Fixtures - See Light Fixture Schedule.
- B. Provide plaster frames where required by ceiling construction.
- C. All recessed down lights shall be rated as follows, whether or not indicated on the fixture schedule: Rated T only if not in contact with any insulation materials. Rated IC when fixture is in contact with insulation materials.

2.2 WARRANTY

- A. LED Luminaires: Submit a warranty, mutually executed by the LED luminaire manufacturer and the installer, agreeing to replace LED luminaires that fail in materials or workmanship within five years, beginning on the date of substantial completion of project.

2.3 LED LUMINAIRES

- A. For LED lighting in interior spaces, use NRTL-listed 120V or 277V luminaires with the performance characteristics listed below:
    - 1. Minimum luminaire efficacy per IES LM-79-08, *Approved Method: Electrical and Photometric Measurement of Solid-State Lighting Products*:
      - a. as indicated in fixture schedule
      - a. 90 lumens/watt for general lighting,
      - b. 50 lumens/watt for accent and display lighting, down-lighting, and special purpose lighting.
    - 2. Correlated color temperature (CCT) per IES LM-79-08 and ANSI/NEMA/ANSGL 8.377-2008, *Specification for the Chromaticity of Solid-State Lighting (SSL) products*:
      - 3. Color rendering index (CRI): 90 or better per IES LM-79-08.
      - 4. LED Design life (L70): Not less than 50,000 hours per IES LM-80-08, *Approved Method: Measuring Lumen Maintenance of LED Light Sources*.
    - 5. Driver System Design Life: Not less than the LED design life; note that the driver system includes all associated components, not just the driver integrated circuit. Driver system design life is defined as when 2 percent of the systems would have failed.
    - 6. Power factor: 0.90 or better.
    - 7. Design ambient temperature: 35 °C (95 °F); note that this is the ambient temperature surrounding the luminaire, not the LED or driver heat-sink temperature.
    - 8. EMI/RFI: Meet FCC 47 CFR Part 15.
    - 9. Minimum dimming provisions or capability:
      - a. 50% step for general lighting,
      - b. Down to 20% for accent and display lighting, and special purpose lighting.
- 3.1 Installation:
- A. Mount fixtures as called for on drawings. Determine type of ceiling being installed in each space and furnish fixtures suitable for exact type, including roof/floor or ceiling/floor fire rated design with fire tenting required by Architect. All coordination and materials to be provided without additional cost to owner.
  - B. If a recessed fixture is installed in a fire rated ceiling, provide a fire rated enclosure around the fixture to maintain the ceilings fire rating.
  - C. All light fixtures shall be supported from the building structure.
  - D. Fixtures shall be installed per NEC.
  - E. Securely fasten fixtures to structural members. Support fixtures mounted in ceilings and attach to ceiling system as required by NEC 410-16(c). Provide four seismic support cables on all troffer fixtures.
  - F. Coordinate fixture locations to clear diffusers, ductwork, piping, building structure, etc. without additional cost to owner.
  - G. Support surface-mounted fixtures from building structural system using rods in conjunction with clamps or fixture outlet boxes. Provide additional support equal to seismic fixture mounting detail on drawings.
  - H. Support plaster or drywall mounted fixtures from support channels spanning across main building supports without depending on ceiling system for support. Provide support equal to seismic fixture mounting detail on drawings
  - I. At completion of the project, all fixtures shall be clean and free of breaks and defects with all lamps operating.
  - J. Install emergency lighting pack in ballast channel with charging indicator light and test switch mounted on fixture end, or visible and accessible through lens.
  - K. Wire emergency battery packs so units can be tested with lights on.
  - L. Wire emergency battery packs so lamps in normal mode are switched off with other lighting in area. Connect emergency lighting unit to unswitched conductor of normal lighting circuit.

END OF SECTION

FIRE ALARM & DETECTION SYSTEMS

ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A COMPLETE BUILDING FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL MEET CURRENT NFPA 72 AND 2012 IFC REQUIREMENTS ALONG WITH ANY LOCAL CITY REQUIREMENTS. PROVIDE ALL DOCUMENTATION, DRAWINGS, VOLTAGE DROP AND BATTERY CALCULATIONS AND ECT. TO THE CITY FOR PERMITTING AND INSTALLATION.

- A. DO NOT INSTALL MORE THAN (10) NOTIFICATION APPLIANCES ON ANY SINGLE CLASS "A" SIGNAL CIRCUIT. DO NOT EXCEED 400 FT. OF NO. 14 WIRE IN THE TOTAL LOOP.
- B. NFPA ALLOWS NOTIFICATION APPLIANCES TO BE MOUNTED AT A HEIGHT RANGE BETWEEN 80" TO 96" ABOVE FINISH FLOOR. THE PREFERRED HEIGHT IS 80". IF THIS CONFLICTS WITH OTHER TRADES OR ROOM FURNISHINGS, LOCATE AS CLOSE TO 80" AS POSSIBLE, NOT EXCEEDING 96". ALL NOTIFICATION APPLIANCES IN A COMMON ROOM OR LINE OF SIGHT SHALL BE LOCATED AT A COMMON HEIGHT. MOUNT PULL STATIONS AT 46-48" A.F.F. TO THE OPERATING HANDLE TO MEET ADA REQUIREMENTS.
- D. DO NOT CONNECT THE FIRE ALARM SYSTEM TO ANY DEVICE WHICH HAS A POWER HELD CONTACTS.(FLOW, TAMPER, HOOD SYSTEM, DUCT DETECTOR, ETC..FALSE ALARM WILL OCCUR.
- E. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL CONDUCTOR QUANTITIES PER FIRE ALARM SYSTEM SUPPLIER, AND AS PER NFPA and NEC REQUIREMENTS. DO NOT INSTALL ANY SMOKE OR HEAT DETECTORS WITHIN 3 FEET OF ANY AIR DIFFUSER.
- G. DO NOT EXCEED 2500 FEET ON ANY ADDRESSABLE DEVICE RUN. DO NOT EXCEED 120 DEVICES ON ANY ONE ADDRESSABLE DEVICE RUN.
- H. ALL AIR HANDLING EQUIPMENT 2000 CFM OR MORE MUST BE SHUT DOWN UPON FIRE ALARM AS PER LIFE SAFETY CODES.
- I. ALL CLASS "B" INITIATING CIRCUITS WITH ADDRESSABLE DEVICES NEED EOLR. (END OF LINE RESISTORS).
- J. IN CORRIDORS, NOTIFICATION APPLIANCES MUST BE LOCATED WITHIN 15' FROM ENDS OF CORRIDORS AND A MAXIMUM OF 100' SPACING.
- K. PROVIDE THE REQUIRED CANDELA RATING OF ALL NOTIFICATION APPLIANCES ACCORDING TO ROOM SIZE,ETC.
- L. NOTIFICATION APPLIANCES TO BE SYNCHRONIZED TO PROVIDE A 3-3-3 TEMPORAL PATTERN.
- M. ALL WIRING AND CONDUIT ROUTING TO BE AS DESCRIBED ON SUPPLIED SHOP DRAWINGS.
- N. THE FIRE ALARM SYSTEM TO BE IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND ADA REQUIREMENTS.
- O. ELECT. CONTR. TO CONNECT SPRINKLER SYSTEM TAMPER SWITCHES AND FLOW VALVES TO FIRE ALARM SYSTEM AS REQUIRED. SEE FIRE SPRINKLER SYSTEM DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES.
- P. ELECT. CONTR. TO CONNECT FIRE SPRINKLER SYSTEM WATER GONG, TO NEAREST SOURCE OF 120 VOLT UNSWITCHED POWER.
- Q. ALL DWELLING UNITS SHALL BE PROVIDED WITH MULTI-STATION SMOKE DETECTORS AND LOW FREQUENCY NOTIFICATION DEVICES IN COMPLIANCE WITH NFPA 72. ADA UNITS SHALL BE PROVIDED WITH AUDIBLE AND VISIBLE NOTIFICATION DEVICES.
- R. ALL NOTIFICATION DEVICES LOCATED IN SLEEPING ROOMS SHALL BE 177 CANDELA.

TELEPHONE/DATA SYSTEMS

1.1 Summary

- A. Includes But Not Limited To
  - 1. Furnish and install all the equipment, materials, terminations and labor necessary to provide a complete CAT 5e Telephone/Data and Television cabling system as described in Contract Documents including, but not limited to, raceway, outlets, modular jacks, device plates, cables, punch down blocks, backboards, cabinets, patch panels, grounding and other miscellaneous items required for a complete system.
  - 2. Furnish and install main service raceway as described in Contract Documents and to comply with local telephone company requirements.
  - 3. Refer to Drawings for conduit sizes and quantity of cables/jacks at each outlet location.

1.2 Warranty

- A. A Lifetime product warranty covering all components, equipment and workmanship shall be submitted in writing with system documentation. The warranty period shall begin on the system's first use by the owner. Warranty shall be vendor supplied. Contractor warranty alone is unacceptable.
- B. The project must be pre-registered with Manufacturer before installation has begun.

2.1 Components

- A. Boxes shall be a 4 square deep box with single-gang mdring.
- B. Telephone and Computer Network System Cable
  - 1. 23 gauge, solid annealed copper, 4-pairs. CAT 5e
  - 2. Use plenum-rated cable in ceilings and areas used for plenum air return
  - 3. Provide Owner with patch panels, quantity as required
  - 4. Different colors of cabling shall be used; (Yellow - Telephone, Blue - Network)
- 5. Manufacturers:
  - a. Superior Essex
  - b. Alternate manufacturer with equivalent performance standard.
- C. Equipment Racks
  - 1. Provide a wall mounted patch panels.
  - 2. Provide with 20A power strip, wire management and rack mounting kits.
- 3. Manufacturers:
  - a. Cooper B-line
  - b. Alternate manufacturer with equivalent performance standard.
- D. Telephone Termination Blocks
  - 1. UL verified CAT 5e.
  - 2. 66 termination with tin lead plated IDC
- E. Telephone & Network Patch Panels
  - 1. UL verified CAT 5e
  - 2. 110 termination with tin lead plated IDC
  - 3. Wall Mounted.
  - 4. 48 Ports
- 5. Manufacturers:
  - a. Leviton
  - b. Alternate manufacturer with equivalent performance standard.
- F. Telephone/Network Jacks & Faceplates
  - 1. Wall Jacks
    - a. CAT 5e - Color to match cable color.
- 2. Faceplates
  - a. Color to be as specified by Owner.
  - b. Provide and install Blank inserts as needed.
- 3. Manufacturers:
  - a. Leviton
  - b. Alternate manufacturer with equivalent performance standard.
- G. Television Cabling, Jacks & Equipment
  - 1. Cabling: RG6 cable, 75 Ohm
  - 2. Terminate Cable on both ends using an ICM digital F-type Connector.
  - 3. Faceplate color to be as specified by Owner.
  - 4. Terminate all cabling on a Leviton# 49255-H48 Multimedia patch panel (with F-Type connector). Install patch panel in nearest rack.

3.1 Installation

- A. Cables shall be installed in conduit from outlet to above nearest accessible ceiling space, install J-hooks above accessible ceiling space 3ft on center for supporting cable. Install cable from terminal board/data rack to each telephone/network outlet.
- B. Terminate cables at each outlet with specified modular jack assembly.
- C. Terminate cables on punch down blocks or patch panels at terminal board.
- D. All Faceplates, patch panels and cables shall be labeled depicting location, Cables shall be labeled on both ends.
- E. Terminate cabling according to EIA/TIA 568B.1 Standards.
- F. Installation of all materials shall be as recommended by manufacturer.

3.2 Quality Assurance

- A. Comply with applicable portions of NEC ANSI/EIA/TIA 568 as to type products used and installation of components. Provide products and materials which have been UL-listed and labeled.
- B. Cabling system shall meet the performance requirements of the ANSI/TIA/EIA-568-B Standards (Annex E).
- C. Each cable and patch cable shall be tested from the outlet location to the patch panel, the system shall be tested to Category 5e Level II compliance. The test path shall include workstation jacks, Horizontal cabling and patch panels. Contractor shall replace any equipment or cabling that fails and retest. Provide Owner with complete test reports of cabling system.

END OF SECTION

DATE

A REMODEL FOR:  
FHS URGENT CARE

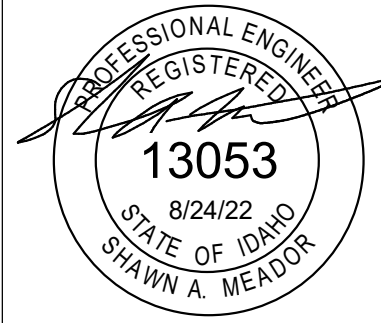
260 3rd Ave N  
ELECTRICAL SPECIFICATIONS

Laughlin Ricks Architecture  
—architecture/planning—  
134 3RD AVE. E. • Twin Falls, Idaho 83301  
PHONE: (208) 736-8050

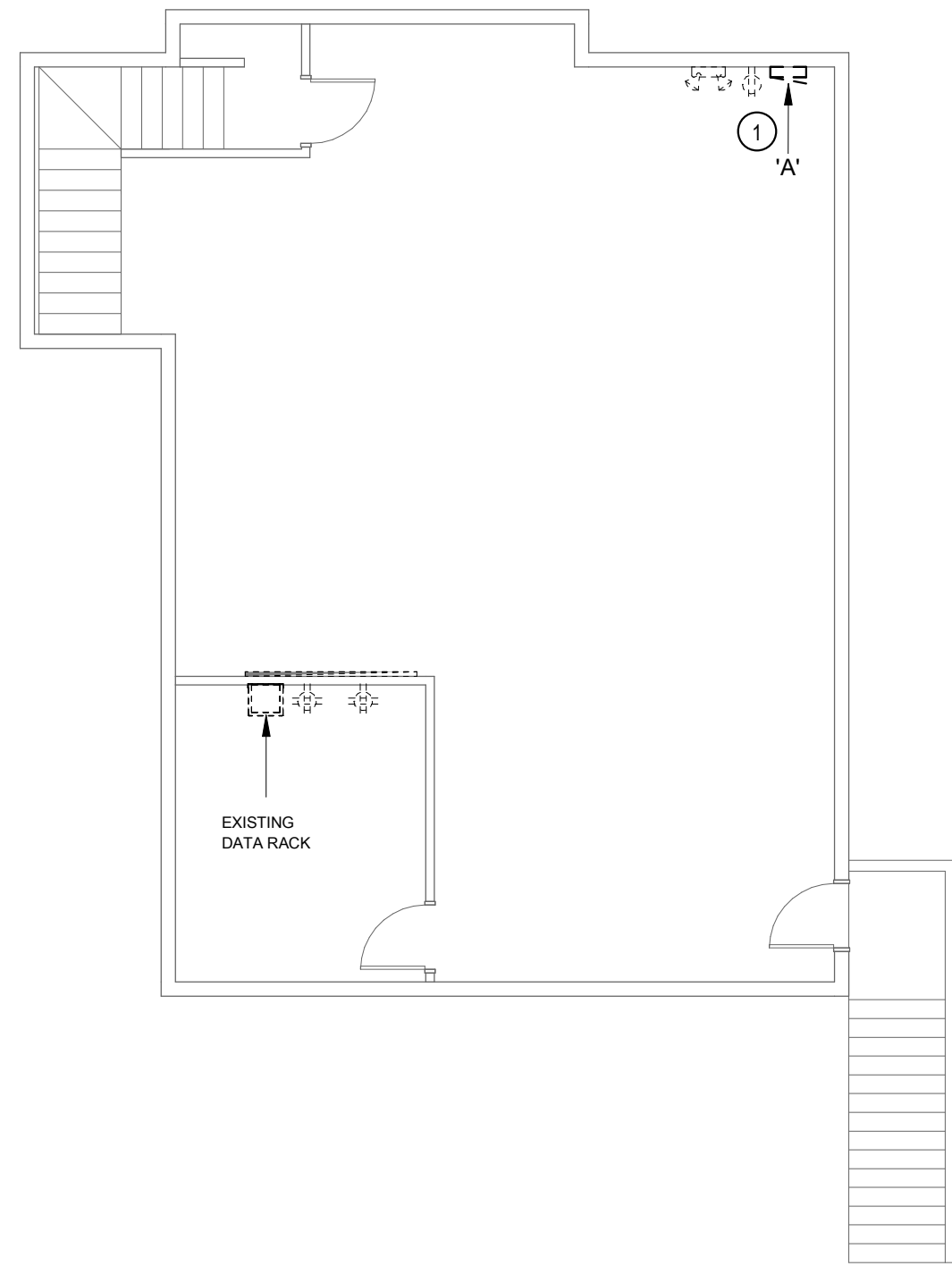
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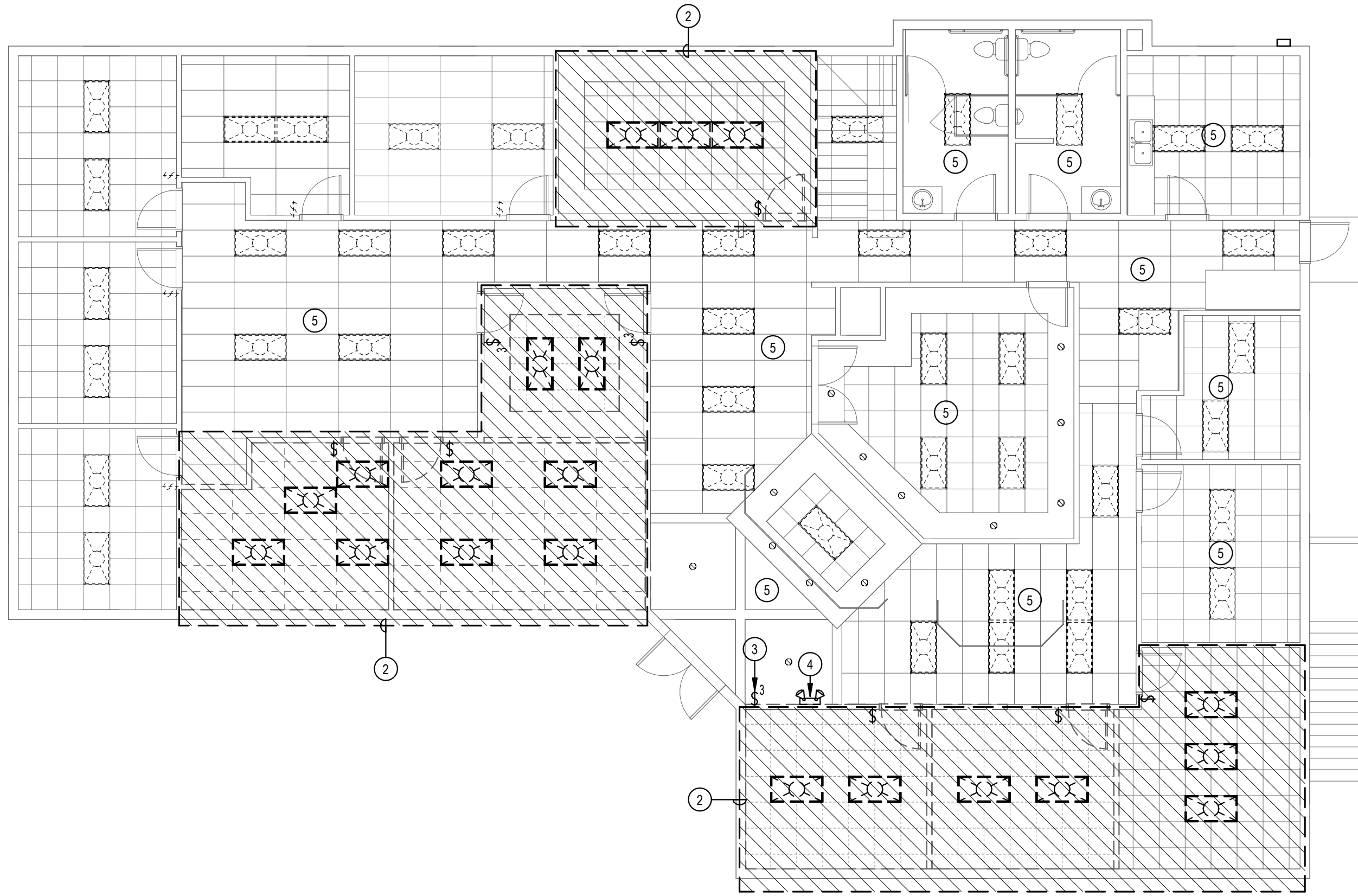
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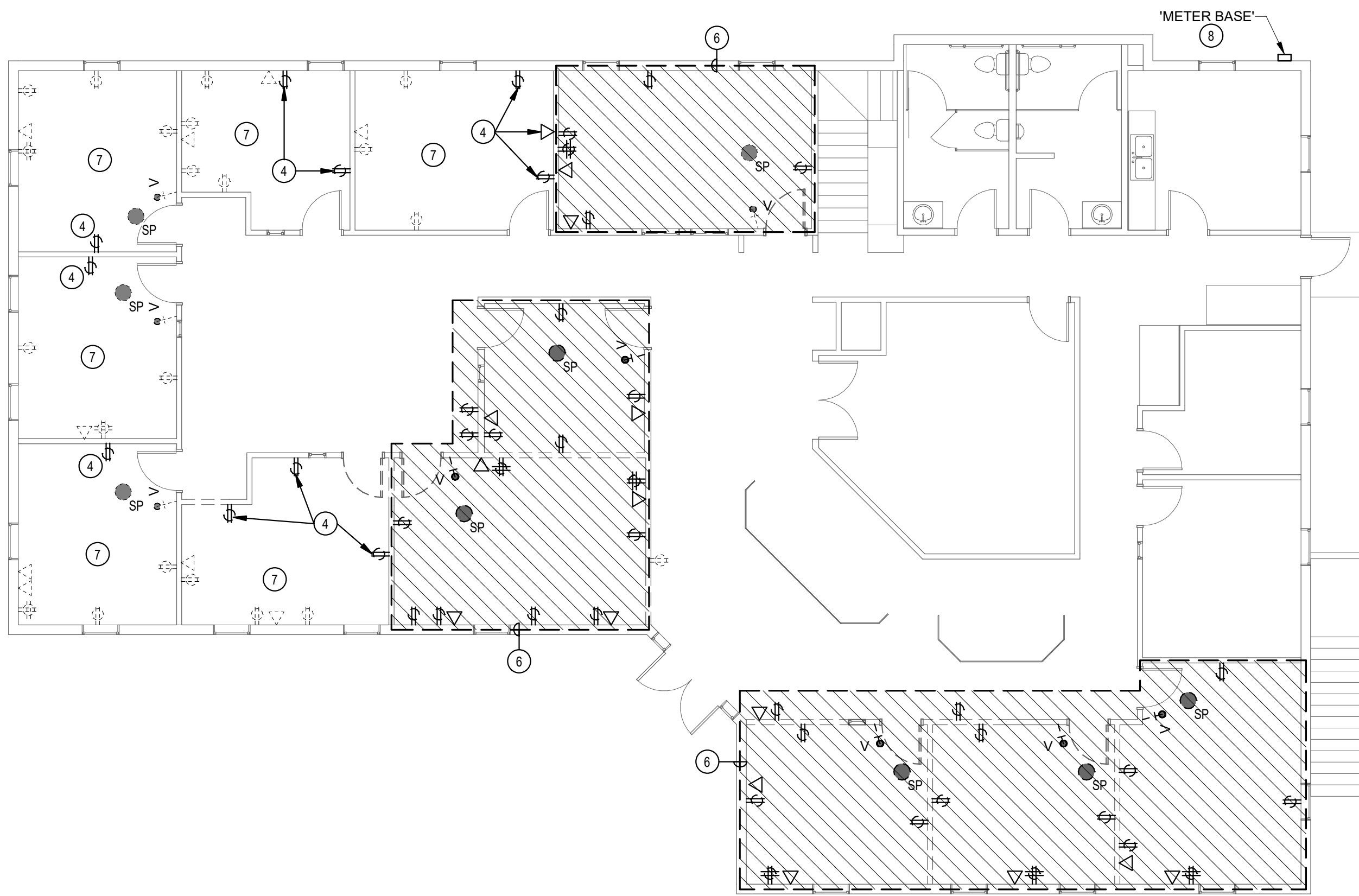
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1 BASEMENT EXISTING ELECTRICAL PLAN  
SCALE: 1/8" = 1'-0"



2 EXISTING LIGHTING PLAN  
SCALE: 1/8" = 1'-0"



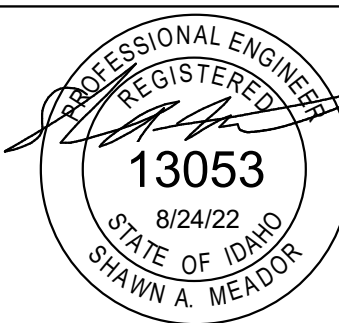
3 EXISTING ELECTRICAL PLAN  
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

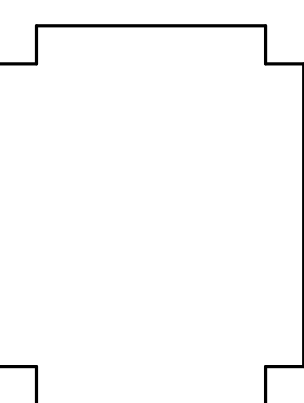
- ALL EXISTING ELECTRICAL MAY NOT APPEAR ON THESE PLANS, HOWEVER THE ABOVE INFORMATION APPLIES.
- PROVIDE AND INSTALL BLANK COVERS ON ALL UNUSED SWITCH/OUTLET/J-BOXES WHERE REQUIRED.
- ALL WALL DEVICES THAT ARE EXISTING TO REMAIN, SHALL BE ADAPTED TO NEW WALL COVERINGS, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT WALL LOCATIONS, THICKNESS, ETC.
- PRIOR TO THE START OF ANY DEMOLITION WORK, DISCONNECTING ANY POWER AND OR TELE/DATA SYSTEMS, THE CONTRACTOR SHALL COORDINATE DOWN-TIME WITH THE OWNER.
- REFER TO ARCHITECTURAL PLANS FOR EXTENT OF DEMOLITION, DETAILS, ETC.
- REMOVE OR RELOCATE ELECTRICAL AS NECESSARY FOR NEW WORK.
- WHERE EXISTING CIRCUITS ARE TO BE RE-USED, EXTEND AS NECESSARY, MAINTAIN ELECTRICAL CONTINUITY TO DOWNSTREAM EQUIPMENT TO REMAIN.
- EXISTING SHOWN TO REMAIN, MAY NEED TO BE REMOVED AND RE-INSTALLED ONLY AS NECESSARY FOR EXTENDING OR MODIFICATION OF EXISTING CIRCUITS OR WIRING.
- REFER TO MECHANICAL PLANS FOR EXTENT OF MECHANICAL EQUIPMENT TO BE REMOVED OR RELOCATED.
- REMOVE ALL UNUSED EQUIPMENT WIRING, CONDUIT AND BOXES IN ALL AREAS. ABANDON ONLY IN CONCEALED AREAS.
- CONTRACTOR MY UTILIZE ANY EXISTING CONDUIT WHERE COMPATIBLE WITH NEW DESIGN, AND IF IN GOOD CONDITION AND COMPLIES WITH SPECIFICATIONS.
- WHEN ANY MODIFICATIONS ARE MADE TO ANY EXISTING ELECTRICAL PANEL TO REMAIN, CONTRACTOR TO PROVIDE NEW TYPE WRITTEN INDEX TO REFLECT ALL NEW AND EXISTING LOADS.
- REMOVE ALL EQUIPMENT, RACEWAYS, CABLES, ETC. NOT USED IN FINISHED AREAS.

# KEY NOTES:

- EXISTING MAIN ELECTRICAL PANEL TO BE DISCONNECTED, REMOVED AND REPLACED WITH NEW PANEL TO PROVIDE ADDITIONAL SPACE. DISCONNECT AND RECONNECT ALL EXISTING BRANCH CIRCUITS THAT ARE TO REMAIN ACTIVE.
- EXISTING LIGHTING AND CONTROLS IN THIS ROOM/AREA SHALL BE REMOVED AND REPLACED WITH NEW AS INDICATED ON NEW LIGHTING PLAN. CUT/PATCH EXISTING CEILING AS NEEDED TO ACCEPT NEW LIGHT FIXTURES, COORDINATE WITH G.C. EXISTING LIGHTING CIRCUIT HOMERUN SHALL BE REUSED FOR NEW LIGHTING, FIELD VERIFY LOCATION.
- EXISTING LIGHT SWITCH TO BE RELOCATED AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION, REFER TO NEW LIGHTING PLAN FOR LOCATION, EXTEND EXISTING CONDUCTORS AS REQUIRED.
- EXISTING DEVICE TO BE DISCONNECTED AND REMOVED TO ACCOMMODATE REMODEL. MAINTAIN/RE-ESTABLISH CONTINUITY TO ALL DOWNSTREAM EQUIPMENT/DEVICES THAT ARE TO REMAIN.
- ALL EXISTING LIGHTING, CONTROLS AND ELECTRICAL DEVICES IN THIS AREA TO REMAIN ACTIVE (UNLESS NOTED OTHERWISE); LOCATE AND PROTECT DURING CONSTRUCTION. E.C. SHALL MAINTAIN/RE-ESTABLISH CONTINUITY TO ALL EQUIPMENT/DEVICES THAT ARE TO REMAIN THAT MAY BE AFFECTED BY REMODEL.
- ALL EXISTING ELECTRICAL DEVICES, LIGHTING AND ETC. WITHIN THIS AREA IS TO BE DISCONNECTED AND REMOVED TO ACCOMMODATE REMODEL, UNLESS INDICATED OTHERWISE. EXISTING CIRCUITS SHALL BE REUSED FOR NEW LIGHTING AND RECEPTACLES IF POSSIBLE. E.C. SHALL MAINTAIN/RE-ESTABLISH CONTINUITY TO ALL DOWNSTREAM EQUIPMENT/DEVICES THAT ARE TO REMAIN.
- ALL 120V RECEPTACLES IN THIS ROOM SHALL BE PROVIDED WITH A REDUNDANT GROUND AS REQUIRED BY SECTION 517 OF THE NEC. E.C. SHALL MODIFY AND/OR REPLACE EXISTING CIRCUITING AS NEEDED TO PROVIDED A REDUNDANT GROUNDING OF DEVICES.
- EXISTING 200A FEED-THRU METER BASE TO BE REMOVED AND REPLACED WITH NEW 400A SELF-CONTAINED METER; COORDINATE WITH LOCAL POWER CO.



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DATE: \_\_\_\_\_

A REMODEL FOR:  
**FHS URGENT CARE**  
280 3rd Ave N  
EXISTING ELECTRICAL PLANS

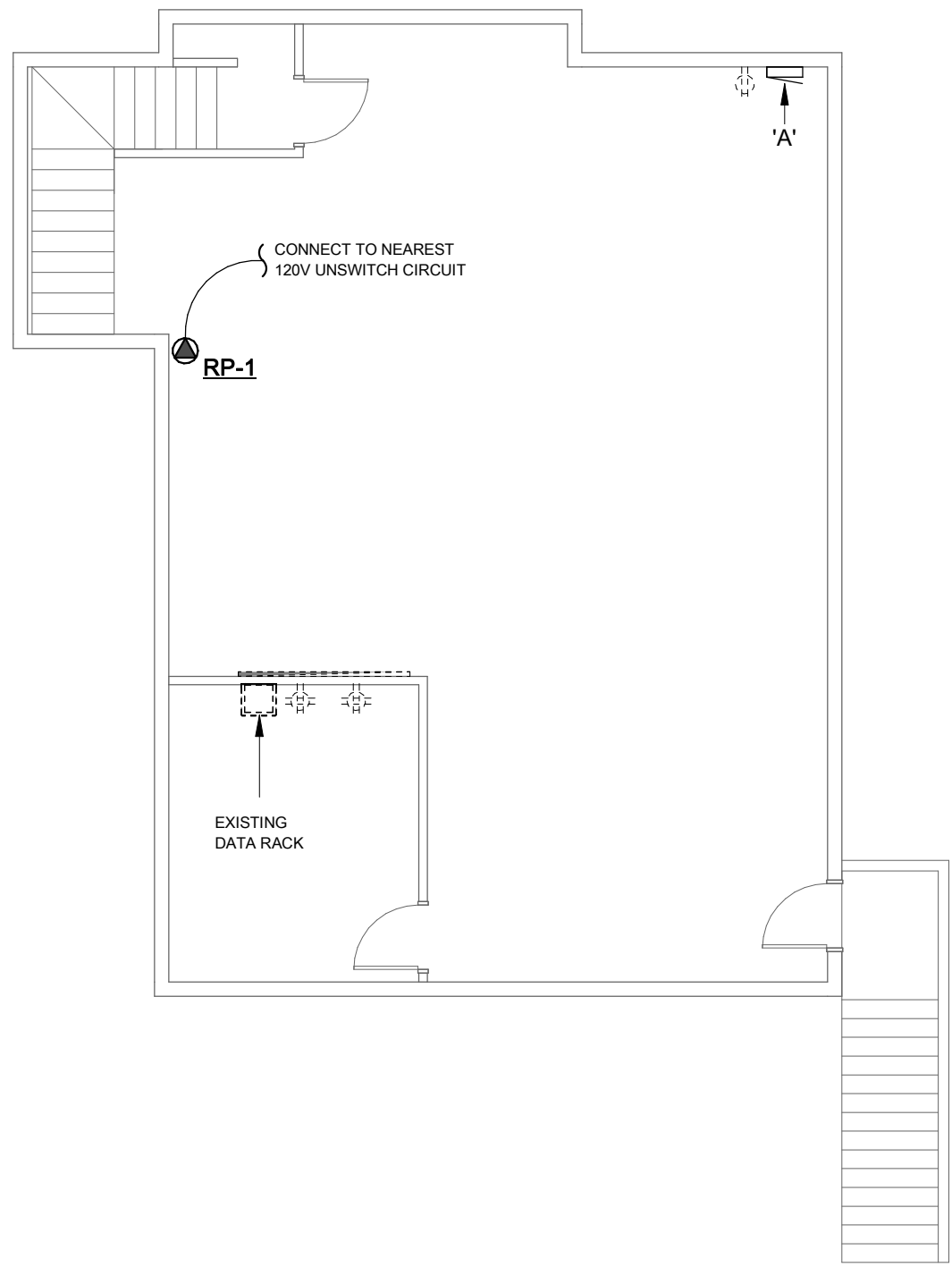
**Laughlin Ricks Architecture**  
—architecture/planning—  
134 3RD AVE. E. \* Twin Falls, Idaho 83301  
PHONE: (208) 736-8050

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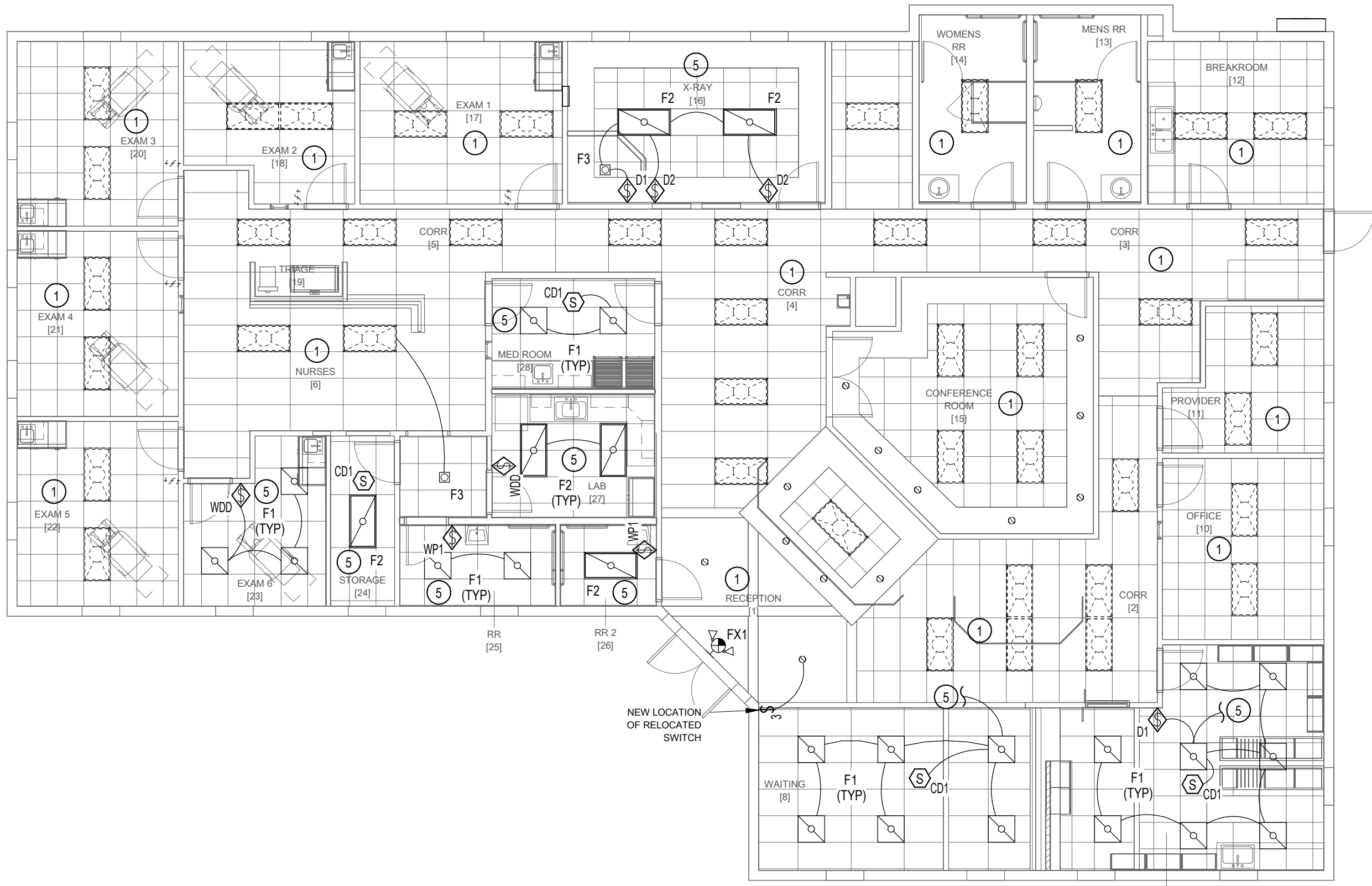
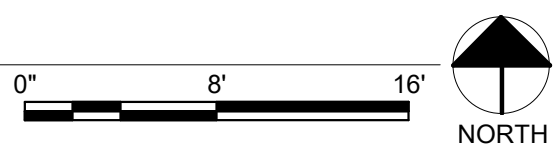
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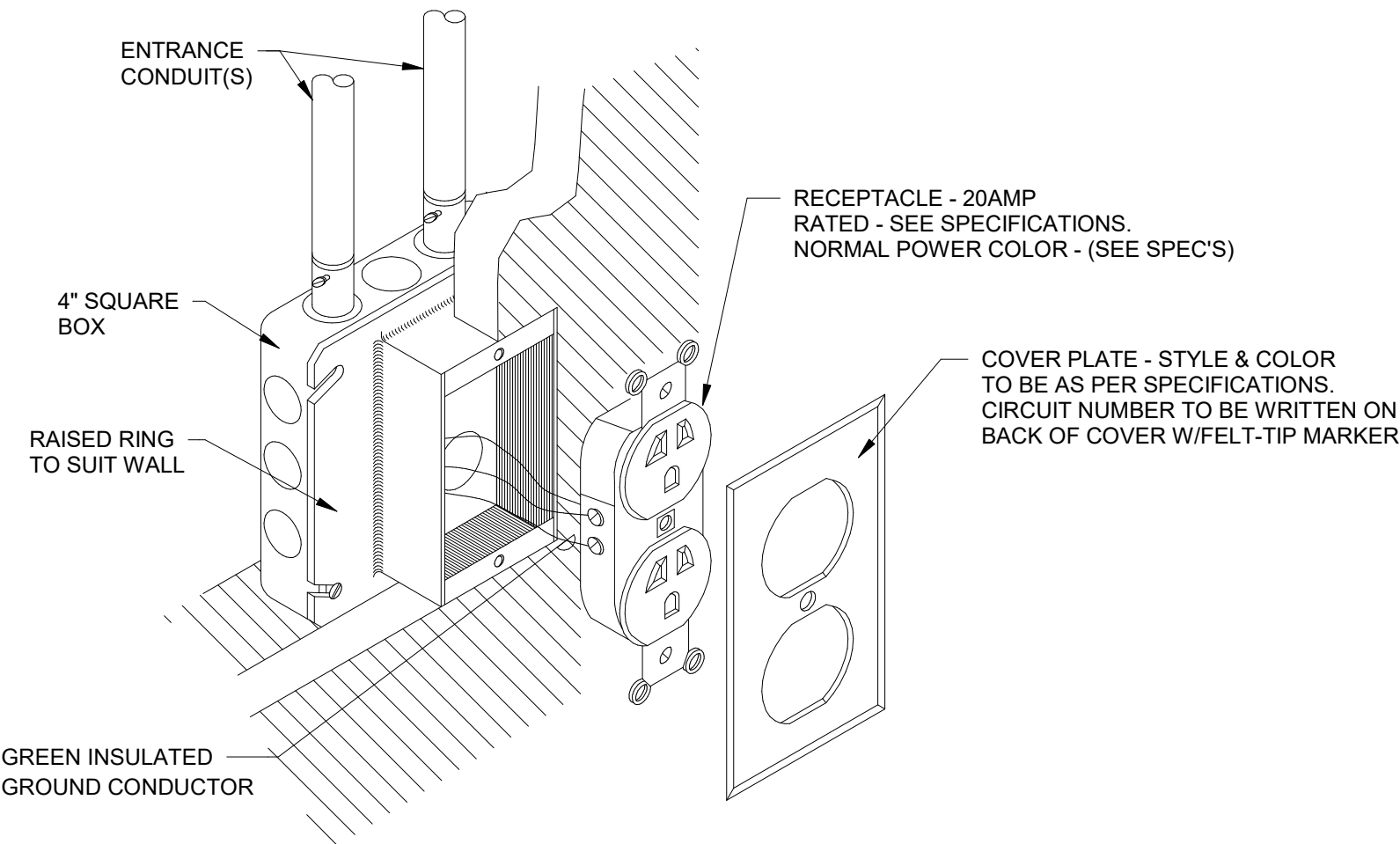
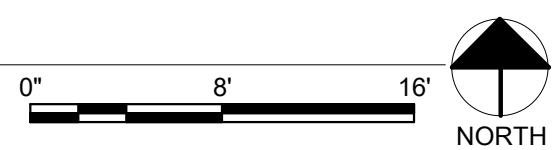




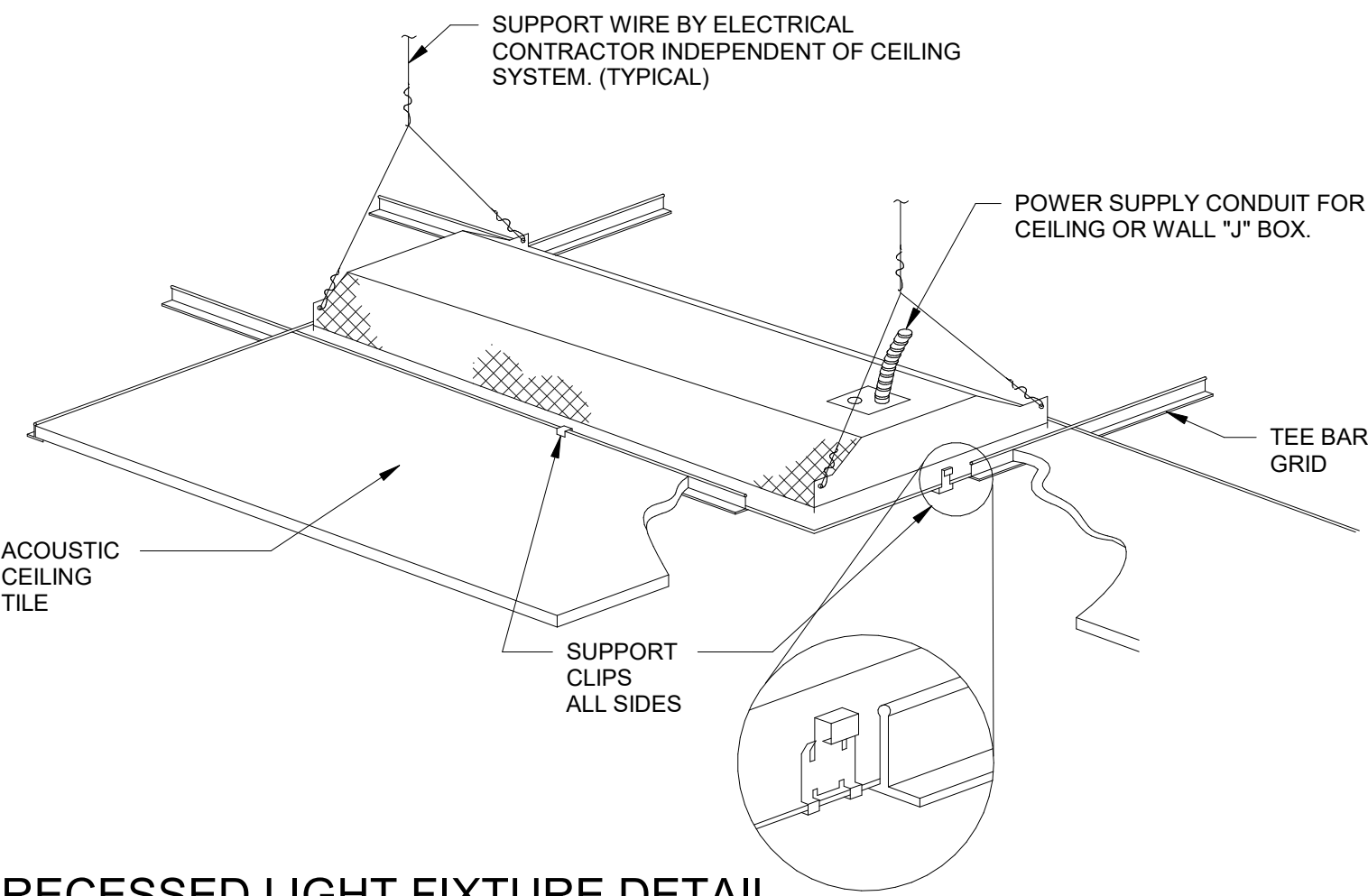
1 BASEMENT ELECTRICAL PLAN  
SCALE: 1/8" = 1'-0"



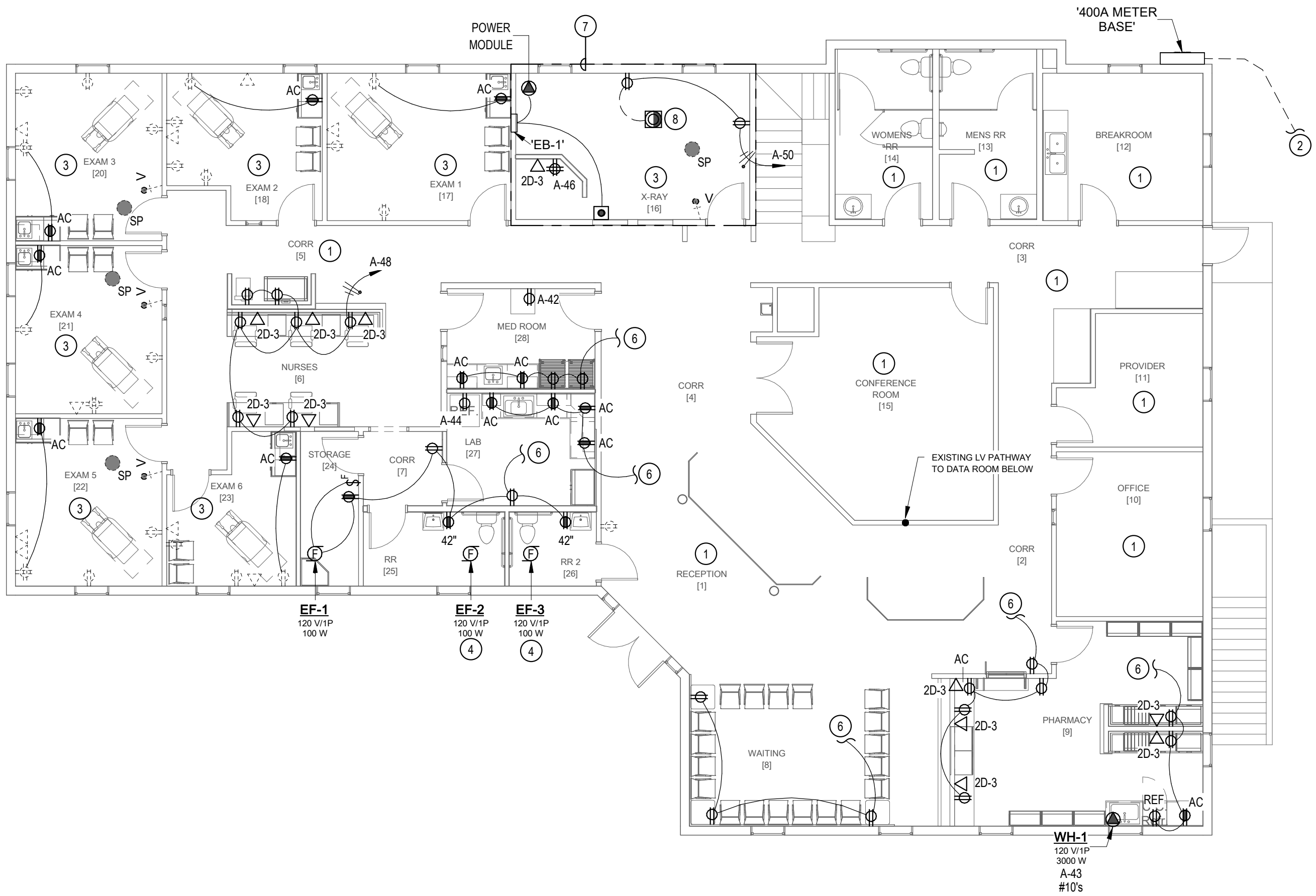
2 LIGHTING PLAN  
SCALE: 1/8" = 1'-0"



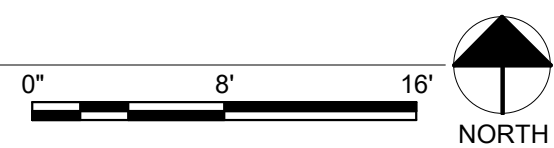
A RECEPTACLE MOUNTING DETAIL  
SCALE: NONE



B RECESSED LIGHT FIXTURE DETAIL  
SCALE: NONE



3 POWER AND SYSTEMS PLAN  
SCALE: 1/8" = 1'-0"



## GENERAL NOTES:

A. REFER TO SYMBOL SCHEDULE SHEET FOR PROJECT GENERAL NOTES AND GENERAL NOTES ASSOCIATED WITH THE INSTALLATION OF EACH SYSTEM, INCLUDING BUT NOT LIMITED TO: LIGHTING, POWER, FIRE ALARM, SPECIAL SYSTEMS, ETC.

## FIRE ALARM SPECIAL NOTE:

A. E.C. SHALL PROVIDE AND INSTALL NEW BUILDING FIRE ALARM SYSTEM THROUGHOUT ENTIRE BUILDING BASED ON THE CURRENT INTERNATIONAL FIRE CODE, NFPA 72 AND LOCAL AHJ REQUIREMENTS. INCLUDING BUT NOT LIMITED TO: NEW FACP, SMOKE/HEAT DETECTORS, NOTIFICATION DEVICES AND ETC. REFER TO SPECIFICATION SHEET FOR ADDITIONAL INFORMATION.

B. NEW FIRE ALARM PANEL SHALL BE LOCATION IN BASEMENT IT ROOM OR AS DIRECTED BY LOCAL AHJ.

## KEY NOTES:

- ALL EXISTING LIGHTING, CONTROLS AND ELECTRICAL DEVICES IN THIS AREA TO REMAIN ACTIVE (UNLESS NOTED OTHERWISE); LOCATE AND PROTECT DURING CONSTRUCTION. E.C. SHALL MAINTAIN/RE-ESTABLISH CONTINUITY TO ALL EQUIPMENT/DEVICES THAT ARE TO REMAIN THAT MAY BE AFFECTED BY REMODEL.
- NEW UNDERGROUND SECONDARY; SEE POWER RISER FOR ADDITIONAL INFORMATION.
- ALL 120V RECEPTACLES IN THIS ROOM SHALL BE PROVIDED WITH A REDUNDANT GROUND AS REQUIRED BY SECTION 517 OF THE NEC. E.C. SHALL MODIFY AND/OR REPLACE EXISTING CIRCUITING AS NEEDED TO PROVIDED A REDUNDANT GROUNDING OF DEVICES.
- CONNECT AND CONTROL EXHAUST FAN WITH ROOM LIGHTING.
- CONNECT NEW LIGHTING TO EXISTING LIGHTING CIRCUIT THAT ORIGINATED IN ROOM; PROVIDE NEW CONTROLS AS INDICATED.
- CONNECT TO EXISTING 120V RECEPTACLE CIRCUIT MADE AVAILABLE DURING DEMOLITION.
- ELECTRICAL EQUIPMENT/DEVICE LAYOUT IN THIS ARE IS SCHEMATIC IN NATURE. E.C. SHALL FIELD VERIFY SPECIFIC LAYOUTS AND ELECTRICAL ROUGH-IN REQUIREMENTS FOR X-RAY EQUIPMENT WITH EQUIPMENT PROVIDER/INSTALLER. E.C. SHALL COORDINATE A WALK-THRU MEETING WITH X-RAY EQUIPMENT INSTALLER PRIOR TO ANY ELECTRICAL WORK IN THIS SPACE.
- E.C. SHALL PROVIDE AND INSTALL IN-FLOOR RECEPTACLE FOR POWER TO X-RAY TABLE; COORDINATE SPECIFIC REQUIREMENTS AND LOCATION WITH EQUIPMENT/INSTALLER PRIOR TO ROUGH-IN.

A REMODEL FOR:

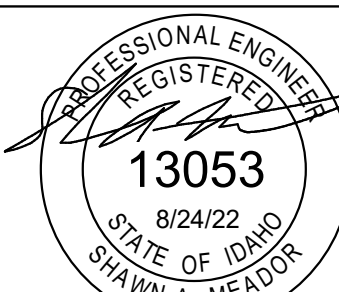
FHS URGENT CARE  
260 3rd Ave N  
ELECTRICAL PLANS

Laughlin Ricks Architecture  
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DATE: 8/24/22

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A. THESE PLANS HAVE BEEN PREPARED WITHOUT UTILITY COMPANY COMMENTS. THE E.C. SHALL VERIFY THE EXACT REQUIREMENTS FOR THE ELECTRIC AND TELEPHONE SERVICES WITH THE UTILITY COMPANY REPRESENTATIVES AND PROVIDE ALL WORK AND PAY ALL COSTS FOR A COMPLETE AND OPERATING SYSTEM, AS DIRECTED BY THE GOVERNING UTILITIES.

LIGHTING CONTROL/OCCUPANCY SENSOR SCHEDULE					
TYPE	DESCRIPTION	MFG#.	CATALOG #	APPROVED EQUALS	NOTES
<b>DIMMER SWITCHES - LINE VOLTAGE</b>					
D1	LINE VOLTAGE 0-10V DIMMER, ON/OFF/DIMMING PUSH-BUTTONS	SENSOR SWITCH	sPODMRA-D-***		2,3,5
D2	LINE VOLTAGE 0-10V DIMMER FOR MULTI-WAY OPERATION, ON/OFF/DIMMING PUSH-BUTTONS	SENSOR SWITCH	sPODMRA MWO-D-***		2,3,5
<b>OCC. SENSORS - CEILING (LOW VOLTAGE)</b>					
CD1	DUAL-TECHNOLOGY, SMALL MOTION 360 DEGREE COVERAGE, LOW VOLTAGE, W/ISOLATED RELAY	SENSOR SWITCH	CM PDT 9 R	COOPER, WATTSTOPPER, HUBBELL	1
<b>OCC. SENSORS - WALL MOUNTED</b>					
WDD	DUAL-TECHNOLOGY, 0-10V DIMMING	SENSOR SWITCH	WSX-PDT-D	COOPER, WATTSTOPPER, HUBBELL	2,5
WP1	PASSIVE-INFRARED, 1-POLE, NEUTRAL REQUIRED	SENSOR SWITCH	WSX-**	COOPER, WATTSTOPPER, HUBBELL	2
<b>CONTROL &amp; OCCUPANCY SENSOR SCHEDULE NOTES:</b>					
<ol style="list-style-type: none"> <li>1. PROVIDE ADDITIONAL POWER PACKS; SENSOR SWITCH PP20 AS NEED FOR QTY OF OCCUPANCY SENSORS/SWITCHES.</li> <li>2. DEVICE COLOR SHALL MATCH WIRING DEVICES; REFER TO SPECIFICATIONS.</li> <li>3. REFER TO MANUFACTURER DOCUMENTATION FOR QTY AND SIZE OF CONDUCTORS BETWEEN LOW VOLTAGE SWITCH, SENSOR(S) AND POWER/RELAY PACKS.</li> <li>4. PROVIDE SECONDARY RELAY PACK; SENSOR SWITCH SP20 AS NEEDED TO PROVIDE DUAL-LEVEL SWITCHING OF FIXTURES.</li> <li>5. PROVIDE 0-10V DIMMING CONDUCTORS (GRAY &amp; VIOLET) BETWEEN SWITCH AND LIGHT FIXTURES FOR DIMMING CONTROL.</li> <li>6. PROGRAM ON/OFF TIMES OF RELAY'S AS DIRECTED BY OWNER. PROVIDE COMMISSIONING AS INDICATED IN GENERAL NOTES BELOW.</li> <li>7. CUSTOM WALL STATION ENGRAVINGS IS REQUIRED FOR WALL STATION(S) AND SHALL BE SPECIFIED/COORDINATED WITH OWNER AFTER PROGRAMING OF SYSTEM.</li> </ol>					
<b>GENERAL LIGHTING CONTROL NOTES:</b>					
<ul style="list-style-type: none"> <li>• E.C. SHALL BE RESPONSIBLE FOR THE PROGRAMMING/COMMISSIONING OF THE LIGHTING CONTROL SYSTEMS TO FUNCTION AS INDICATED ON THE DRAWINGS AND SHALL INCLUDE ALL REQUIRED COST IN THE BASE BID. FOR AREAS WITH DAYLIGHTING CONTROL, THE DAYLIGHTING SET-POINTS SHALL BE COORDINATED WITH THE OWNER FOR EACH AREA PRIOR TO FINAL PROGRAMMING OF THE DAYLIGHTING SENSOR(S). ALL PROGRAMMING/COMMISSIONING SHALL BE DONE BY A FACTORY CERTIFIED OR TRAINED PERSON.</li> <li>• LIGHTING IS SPACES WITH WIRELESS CONTROLS SHALL BE FIELD TUNED TO FOOTCANDLE LEVELS THAT ARE SATISFACTORY TO THE OWNER DURING PROGRAMMING AND COMMISSIONING OF THE WIRELESS CONTROL SYSTEM.</li> </ul>					

PANEL: A

PANEL LOCATION:

FED FROM: 400A METER BASE

MOUNTING: SURFACE

ENCLOSURE: NEMA 1

MFR/GMODEL: SQ. D/QO SERIES

VOLTAGE: 120/240 Single

PHASES: 1

WIRES: 3

BUSSING: SEE SPECS

DIMENSIONS: 20"W x 5.8"D x "H

A.I.C. RATING: 22k

PANEL TYPE: MLO

PANEL AMPS: 225 A

MBR AMPS: N/A

FEED: TOP

PROJECT NAME:

FHS URGENT CARE

NOTES:

PROVIDE INTERNAL OR EXTERNAL SURGE PROTECTION OF PANELBOARD.

CKT	CIRCUIT DESCRIPTION	NOTE	AMPS	P	A		B		P	AMPS	NOTE	CIRCUIT DESCRIPTION	CKT
1	SPARE	--	20 A	1	0	0			2	60 A	--	(E) AC UNIT	2
3	SPARE	--	15 A	1			0	0					4
5	(E) WATER HEATER	--	40 A	2	0	0			2	60 A	--	(E) AC UNIT	6
7							0	0					8
9	(E) BASEMENT LIGHTS	--	20 A	1	0	0			1	20 A	--	(E) RECEPTACLES	10
11	(E) RECEPTACLES	--	20 A	1			0	0	1	20 A	--	(E) RECEPTACLES	12
13	(E) RECEPTACLES	--	20 A	1	0	0			1	20 A	--	(E) RECEPTACLES	14
15	(E) DATA RM RECP.T.	--	20 A	1			0	0	1	20 A	--	(E) RECEPTACLES	16
17	(E) DATA RM RECP.T.	--	20 A	1	0	0			1	20 A	--	(E) RECEPTACLES	18
19	(E) ENTRY LIGHT	--	20 A	1			0	0	1	20 A	--	(E) RECEPTACLES	20
21	(E) HALLWAY LIGHTS	--	20 A	1	0	0			1	20 A	--	(E) RECEPTACLES	22
23	(E) RECEPTACLES	--	20 A	1			0	0	1	20 A	--	(E) RECEPTACLES	24
25	(E) RECEPTACLES	--	20 A	1	0	0			1	20 A	--	(E) RECEPTACLES	26
27	(E) DATA RM LTS/RECP.T.	--	20 A	1			0	0	1	20 A	--	(E) RECEPTACLES	28
29	(E) RECEPTACLES	--	20 A	1	0	0			1	20 A	--	(E) RECEPTACLES	30
31	(E) FAU	--	20 A	1			0	0	1	20 A	--	(E) RECEPTACLES	32
33	(E) FAU	--	20 A	1	0	0			1	20 A	--	(E) CONF. RM LIGHTS	34
35	(E) RECEPTACLES	--	20 A	1			0	0	1	20 A	--	(E) RECEPTACLES	36
37	(E) RECEPTACLES	--	20 A	1	0	0			1	20 A	--	(E) RECEPTACLES	38
39	(E) RECEPTACLES	--	20 A	1			0	0	1	20 A	--	(E) RECEPTACLES	40
41	(E) RECEPTACLES	--	20 A	1	0	180			1	20 A		Receptacle	42
43	WATER HTR	--	30 A	1			3000	180	1	20 A		Receptacle	44
45	SPARE	--	20 A	1	0	360			1	20 A		Receptacle	46
47	SPARE	--	20 A	1			0	1260	1	20 A		Receptacle	48
49	SPARE	--	20 A	1	0	540			1	20 A		Receptacle	50
51	SPARE	--	20 A	1			0	0	2	30 A	--	SURGE PROTECTION DEVICE	52
53	SPARE	--	20 A	1	0	0							54
			TOTAL LOAD:		13.6 kVA		16.7 kVA						
			TOTAL AMPS:		113 A		139 A						

PANEL SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS
Existing Load	25000 VA	125.000%	31250 VA	
Receptacle	2520 VA	100.00%	2520 VA	TOTAL CONN. LOAD: 30248 VA
Elec. Heating	3000 VA	100.00%	3000 VA	TOTAL EST. DEMAND: 36493 VA
				TOTAL CONN. AMPS.: 126 A
				TOTAL EST. DEMAND AMPS: 152 A

BRK NOTES:


A = ARC-FAULT BREAKER

GP = GFEPD BREAKER

G = GFCI BREAKER

LCP = CRKT TO BE ROUTED THROUGH LTG CONTROL PANEL

R = RED HANDLED, LOCK-OUT TYPE



P.E. #2282

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BP	SAM
Drawn	Checked

### E3.0