

RENOVATIONS TO TACH Floyd Elementary

OWNER: **JAMES WERTH**
PO BOX 9
LAUREL FORK, VA 24352

FACILITY: **FLOYD ELEMENTARY SCHOOL**
531 OAK HILL DR
FLOYD, VA 24091

23 MAR 2026 - 100% CDs



LIST OF DRAWINGS			
ORDER	DISCIPLINE	SHEET NUMBER	SHEET NAME
GENERAL			
1.0	GENERAL	G101	TITLE DRAWING
1.0	GENERAL	G102	GENERAL REQUIREMENTS
LIFE SAFETY			
1.5	LIFE SAFETY	LS101	LIFE SAFETY PLAN
ARCHITECTURE			
4.0	ARCHITECTURE	A110	FIRST FLOOR PLAN
4.0	ARCHITECTURE	A201	DOOR SCHEDULE
4.0	ARCHITECTURE	A202	SPECIALTY ITEMS
4.0	ARCHITECTURE	A901	LEGENDS AND ROOMS FINISHES
MECHANICAL			
5.0	MECHANICAL	M101	MECHANICAL COVER SHEET
5.0	MECHANICAL	M101	MECHANICAL PLANS
ELECTRICAL			
6.0	ELECTRICAL	E0.0	ELECTRICAL COVER SHEET
6.0	ELECTRICAL	E1.0	ELECTRICAL PLANS
6.0	ELECTRICAL	E2.0	ELECTRICAL DETAILS
PLUMBING			
7.0	PLUMBING	P001	PLUMBING COVER SHEET
7.0	PLUMBING	P101	PLUMBING PLANS
7.0	PLUMBING	P201	PLUMBING SECTIONS & RISER DIAGRAMS

RENOVATIONS TO
TACH Floyd Elementary
531 OAK HILL DR SW
FLOYD, VA 24091



1 VICINITY MAP
G101 1" = 300'-0"

CONTACT INFORMATION

ARCHITECTURAL
WM2A ARCHITECTS
408B N MAIN ST
HILLSVILLE VA 24343
478-745-4945
CONTACT: YANCEY POWERS

MECHANICAL
CES, INC
1111 S. MARSHALL STREET, SUITE 250
WINSTON SALEM, NC 27101
336-724-0139
CONTACT: DAVID GOODSON

PLUMBING
CES, INC
1111 S. MARSHALL STREET, SUITE 250
WINSTON SALEM, NC 27101
336-724-0139
CONTACT: DAVID GOODSON

ELECTRICAL
CES, INC
1111 S. MARSHALL STREET, SUITE 250
WINSTON SALEM, NC 27101
336-724-0139
CONTACT: DAVID GOODSON

REVISION NO.	DATE	DESCRIPTION

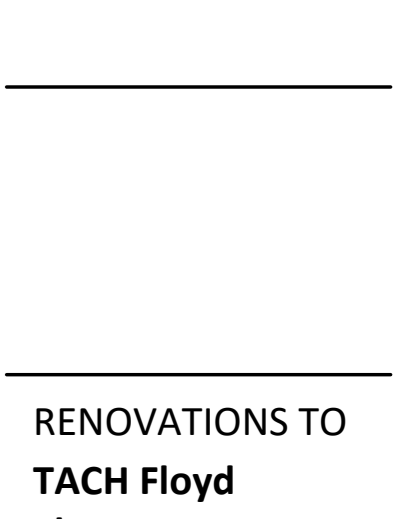
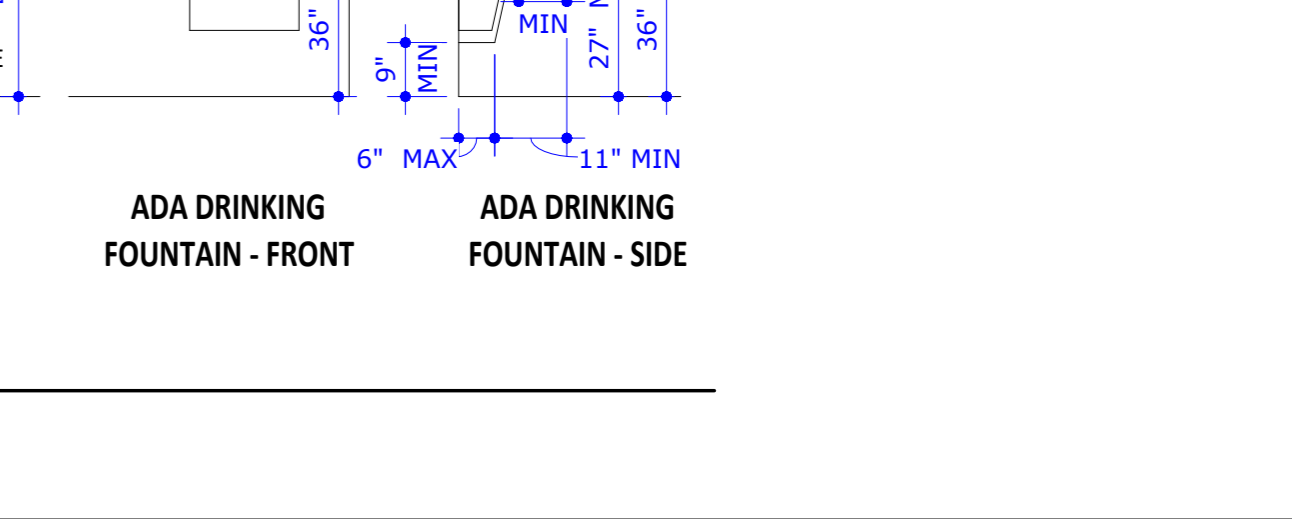
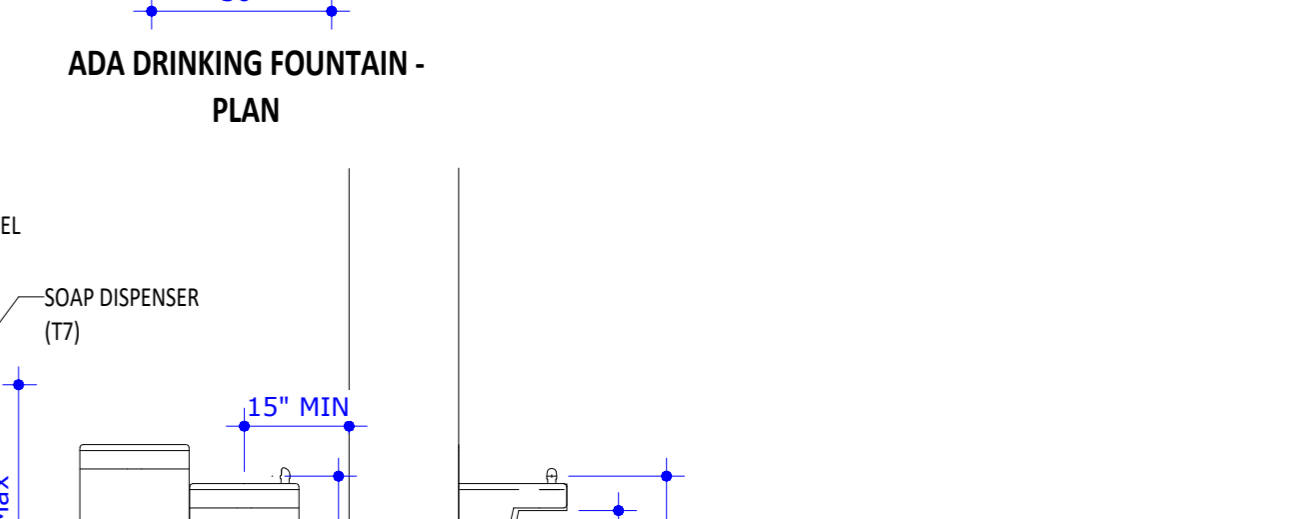
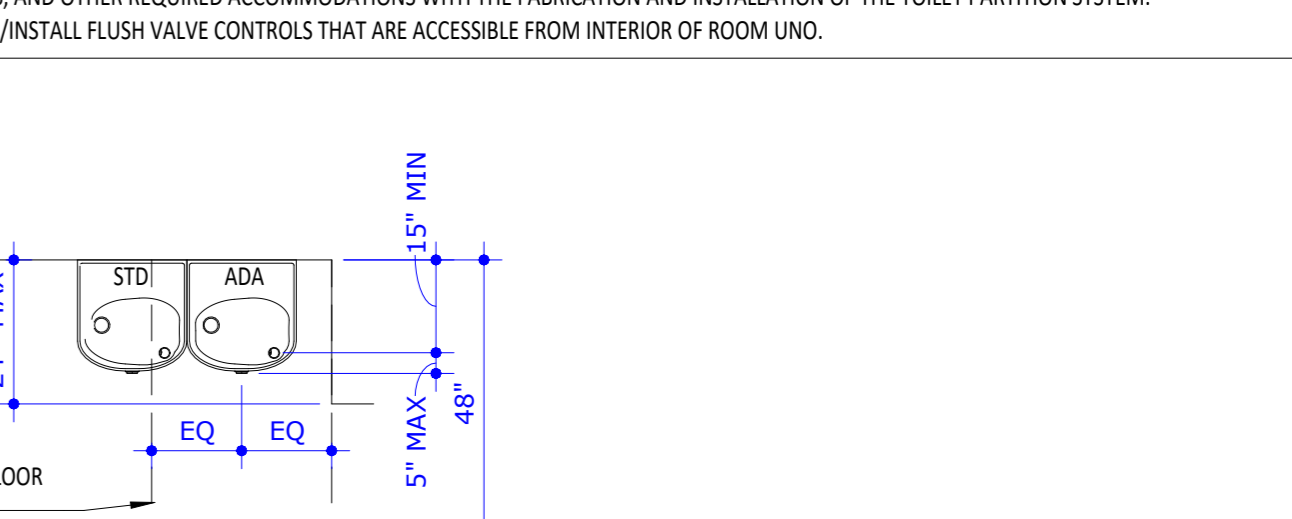
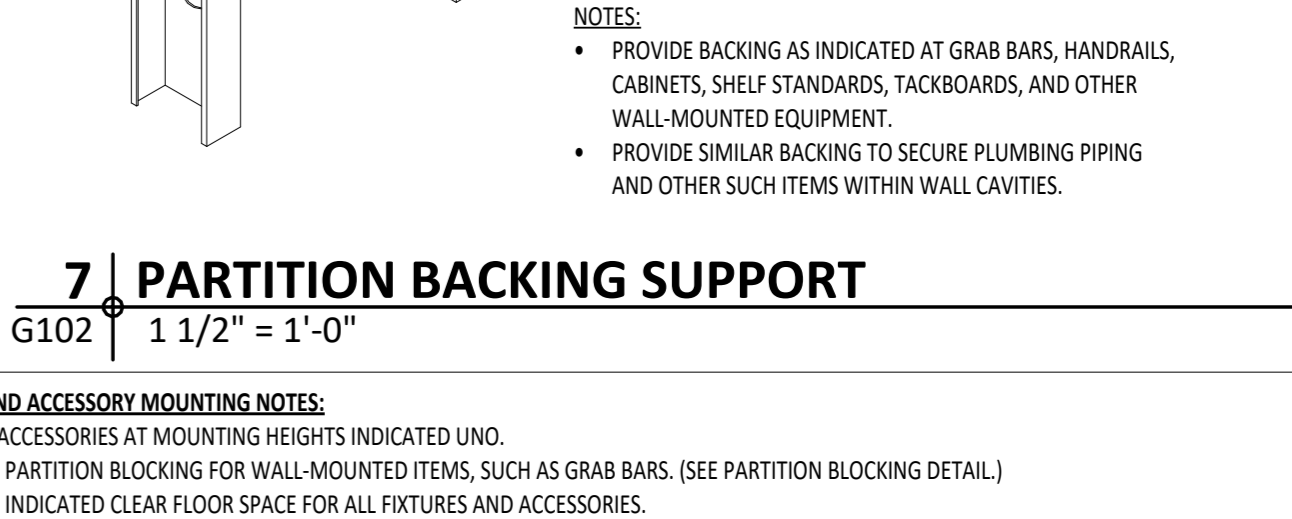
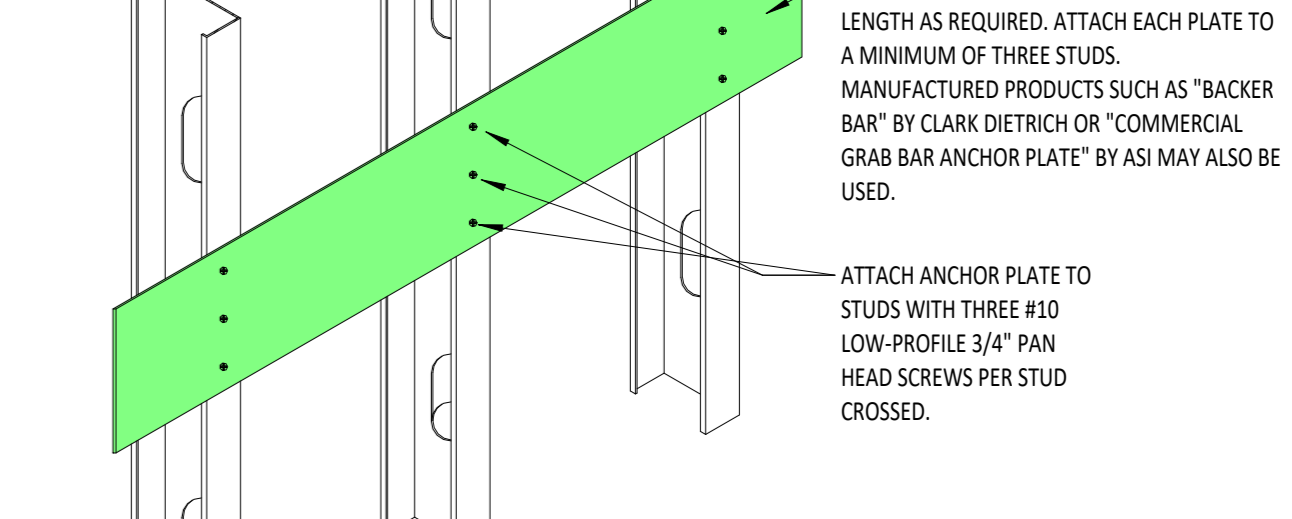
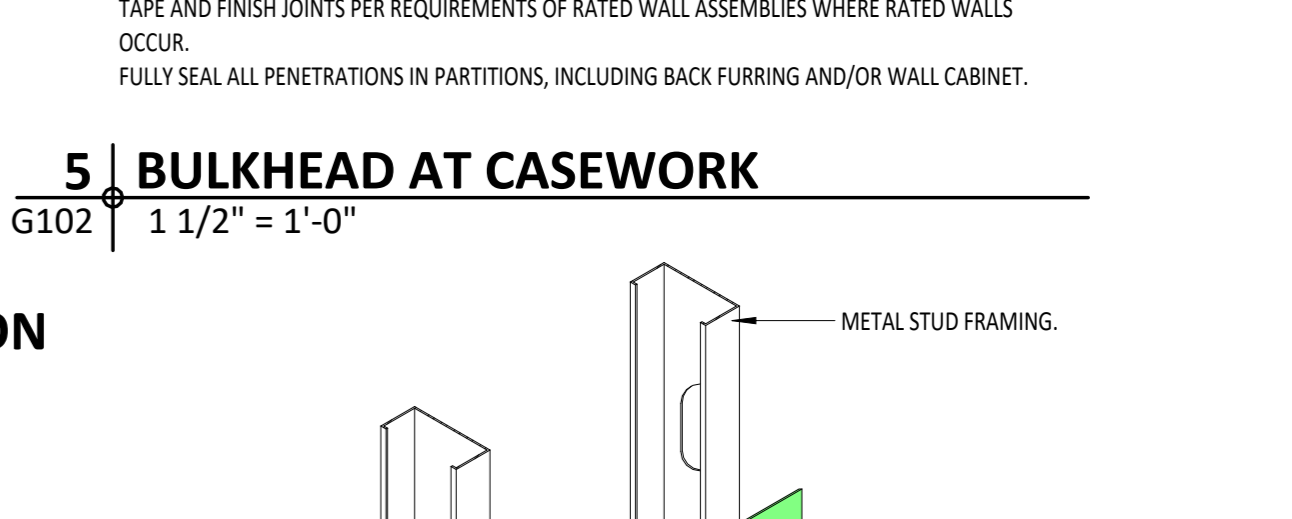
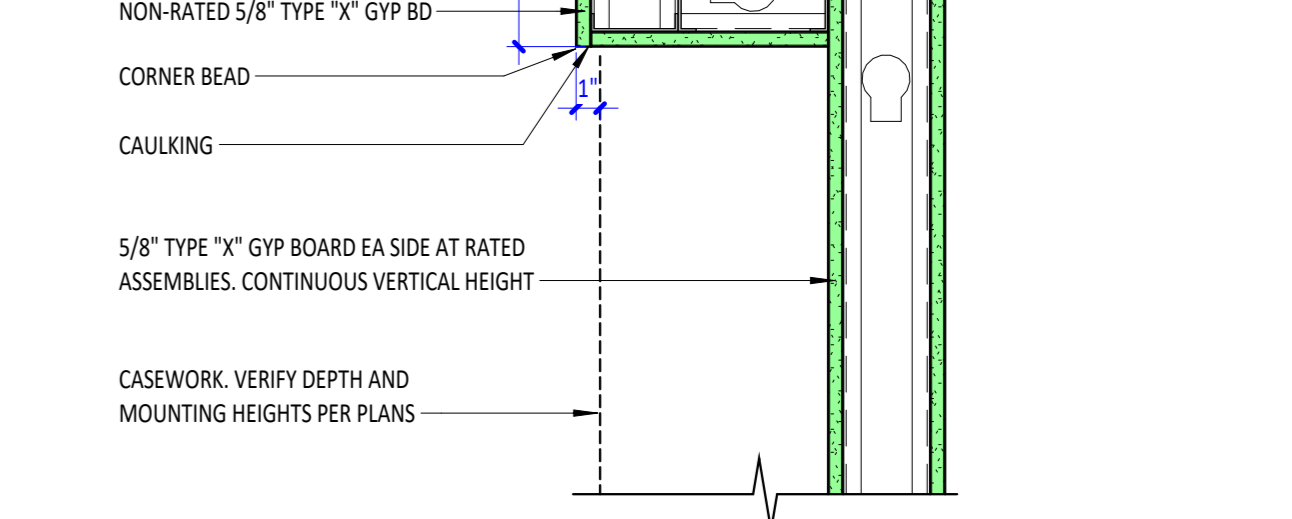
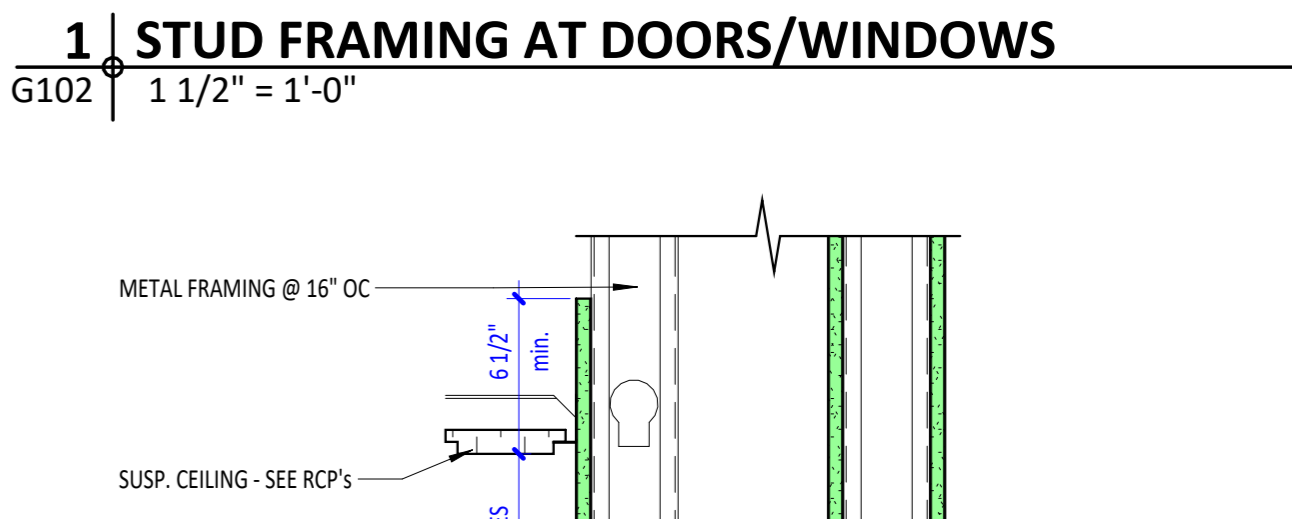
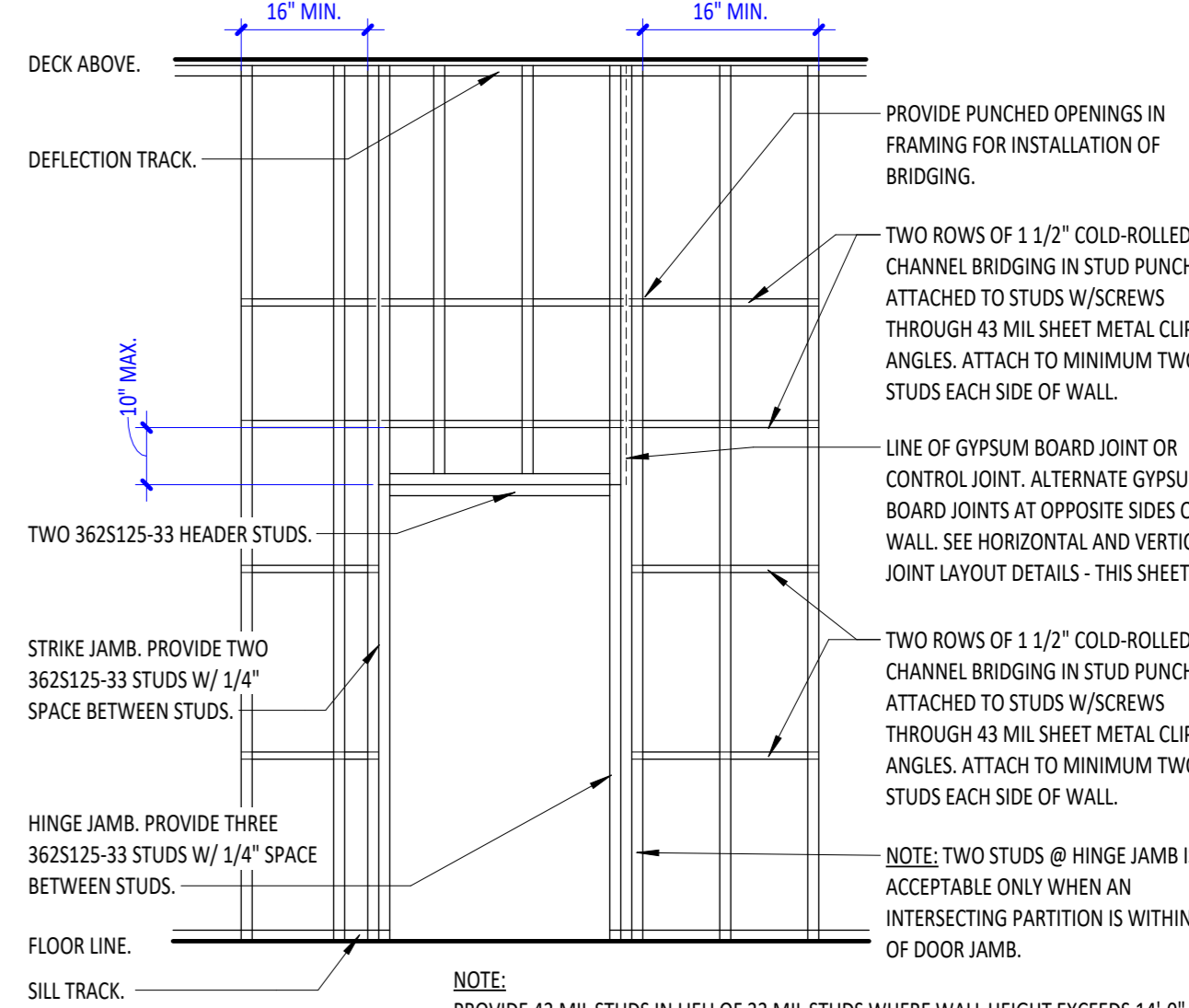
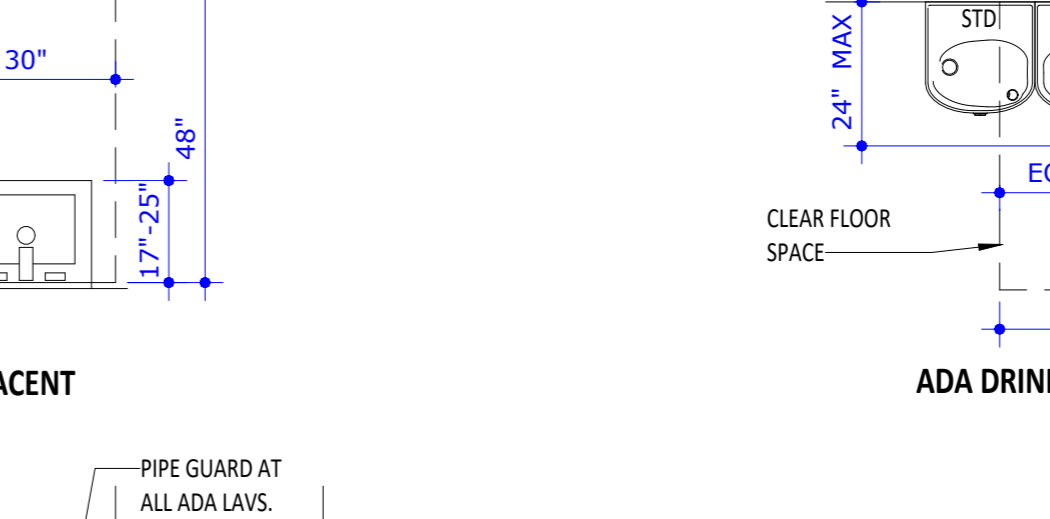
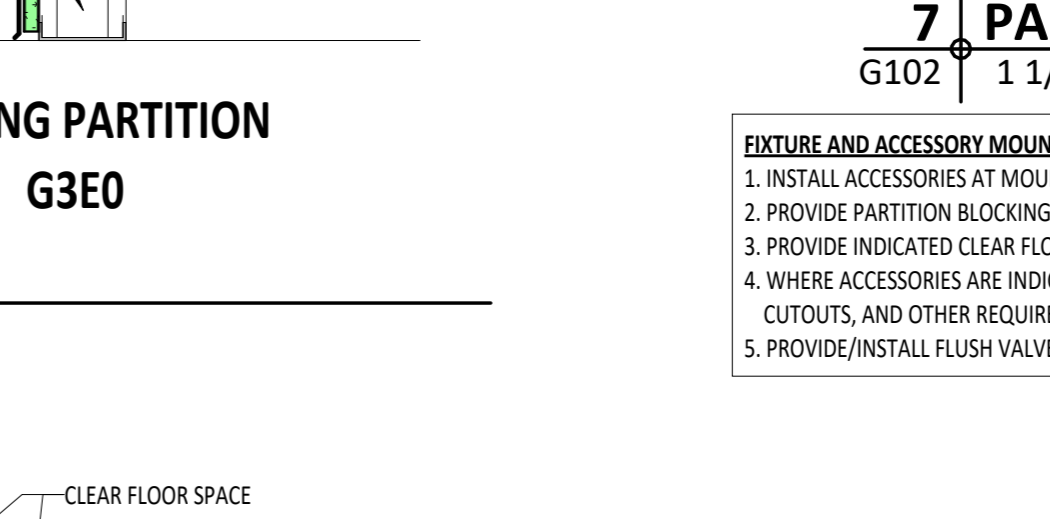
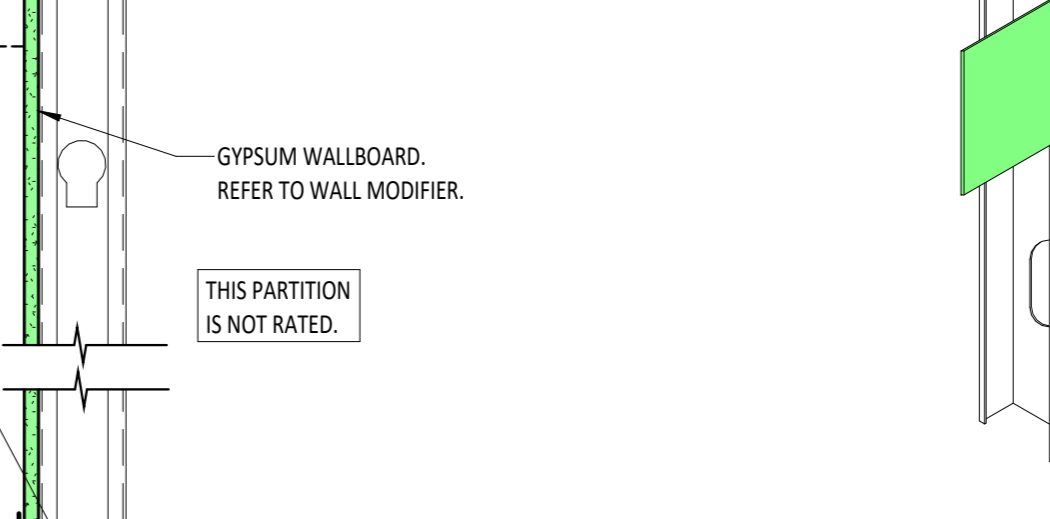
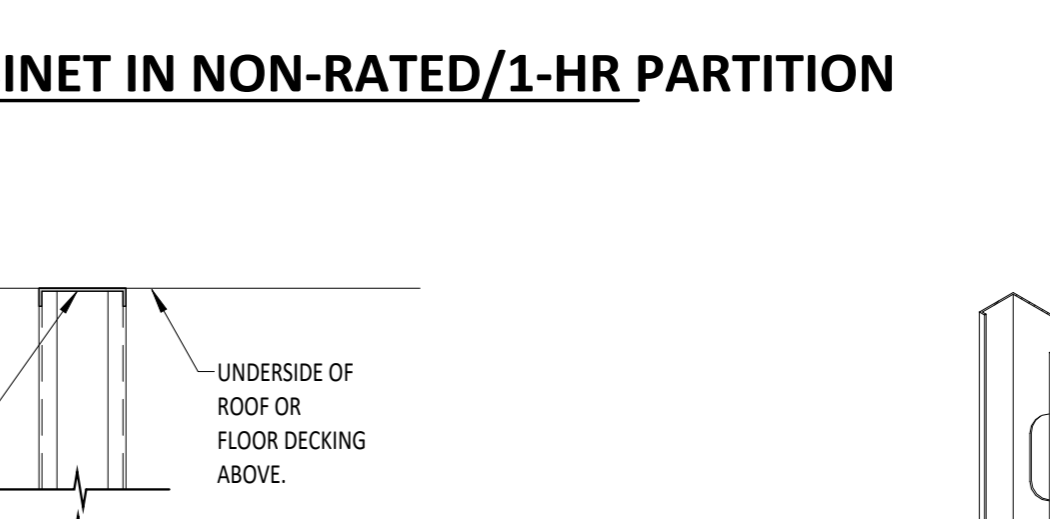
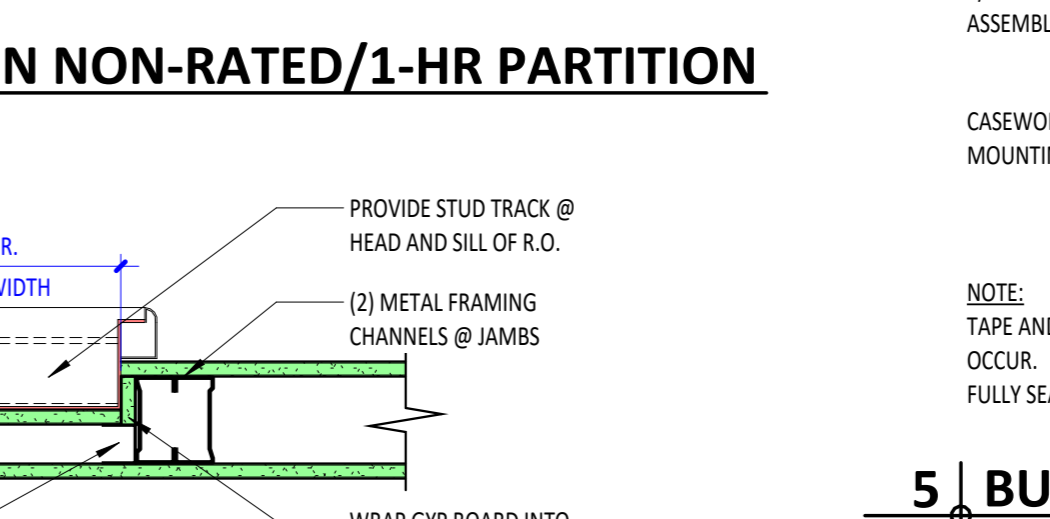
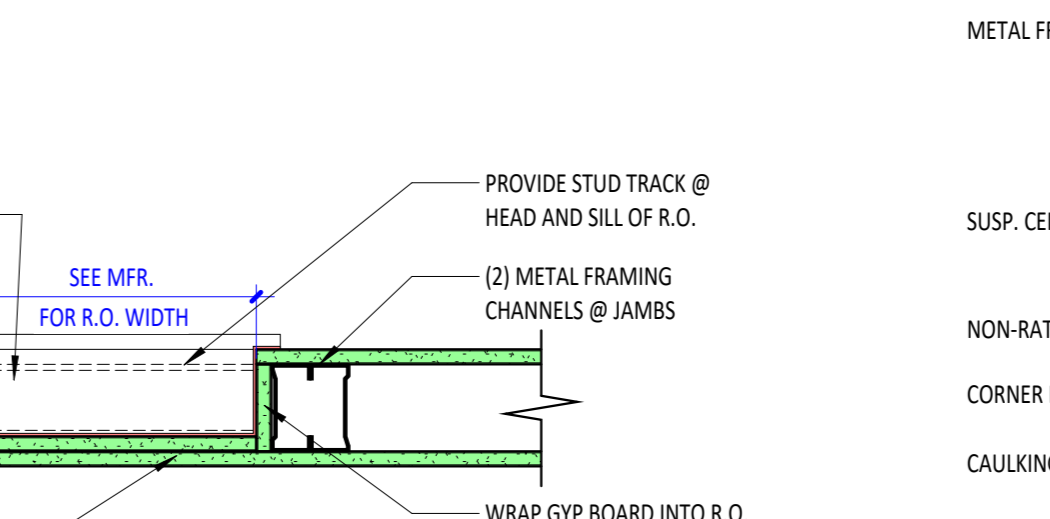
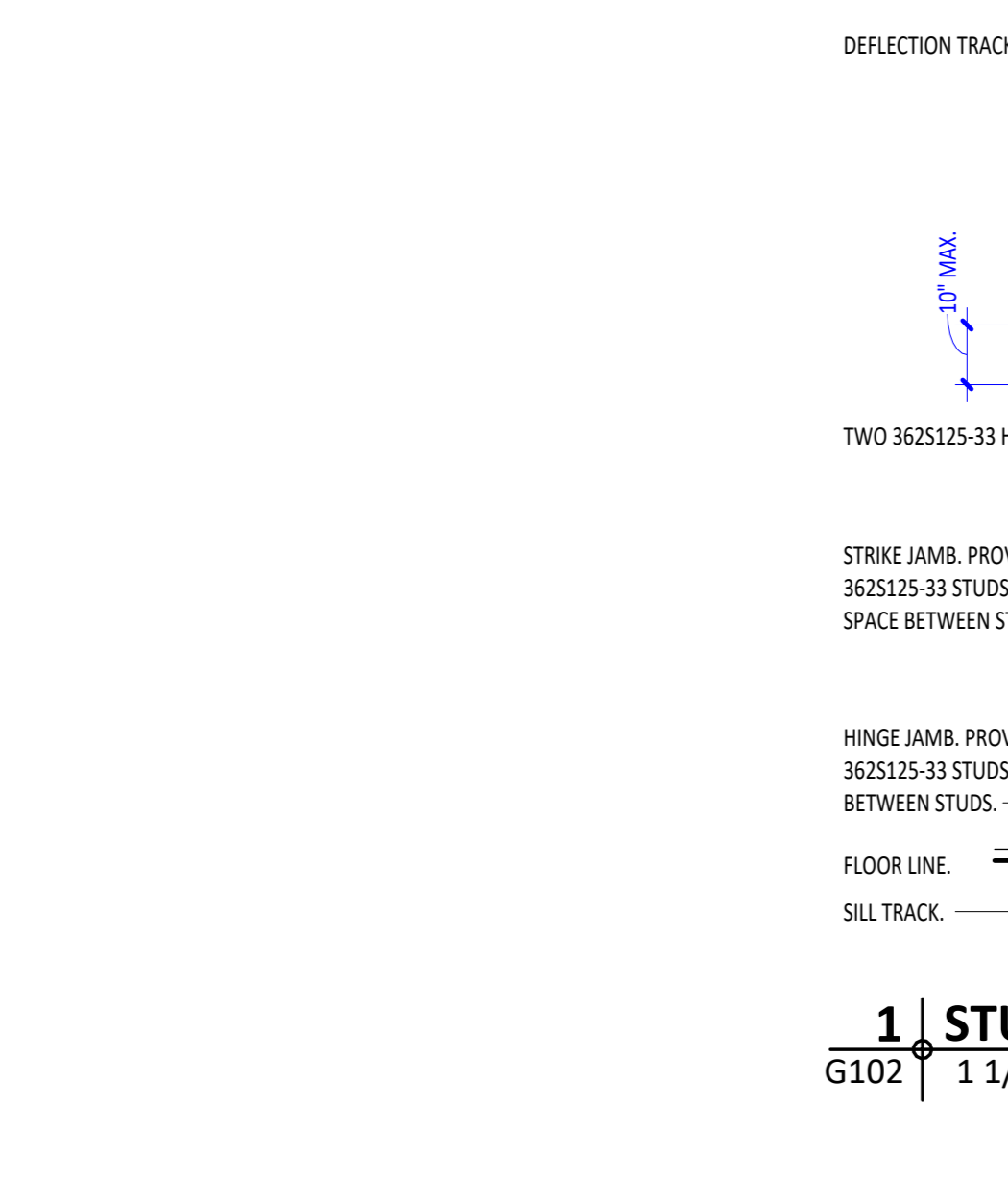
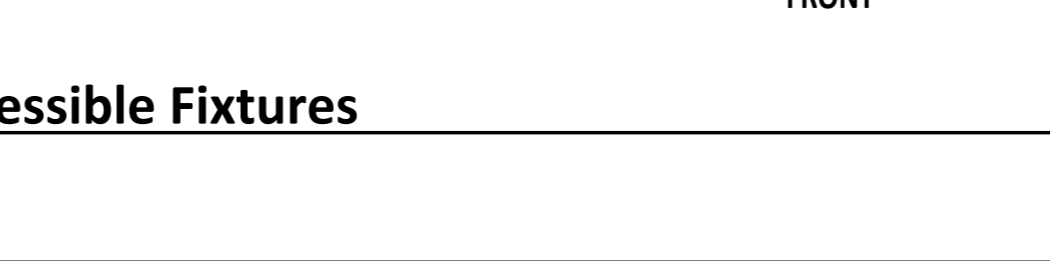
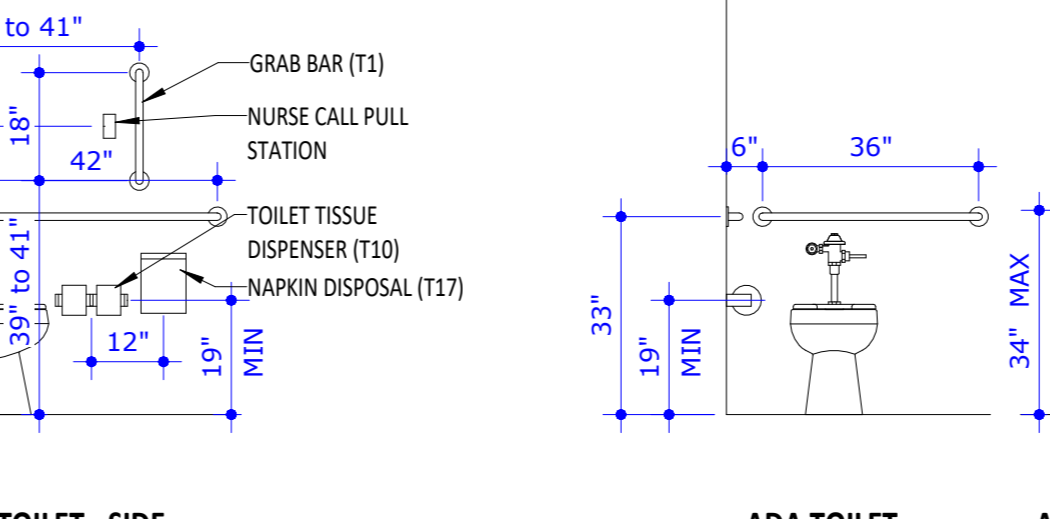
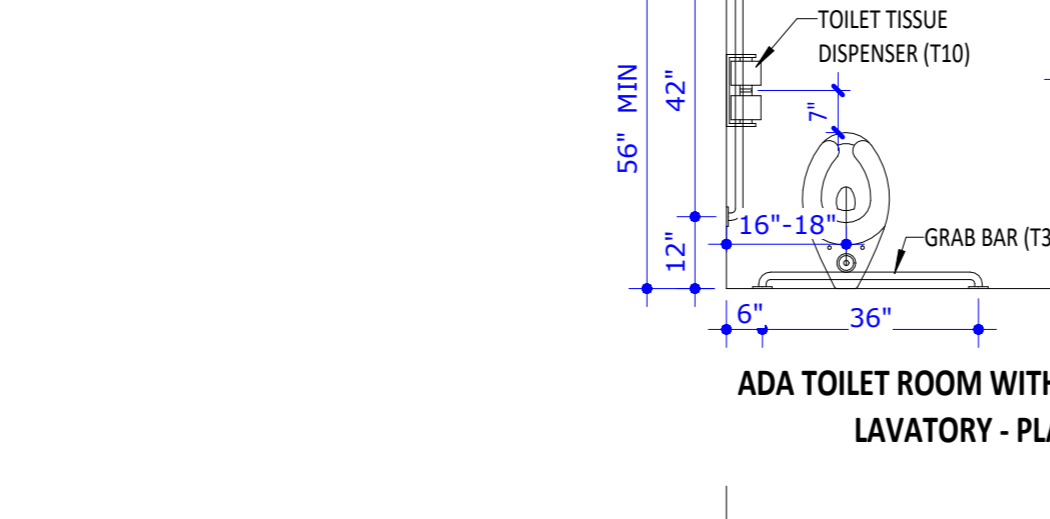
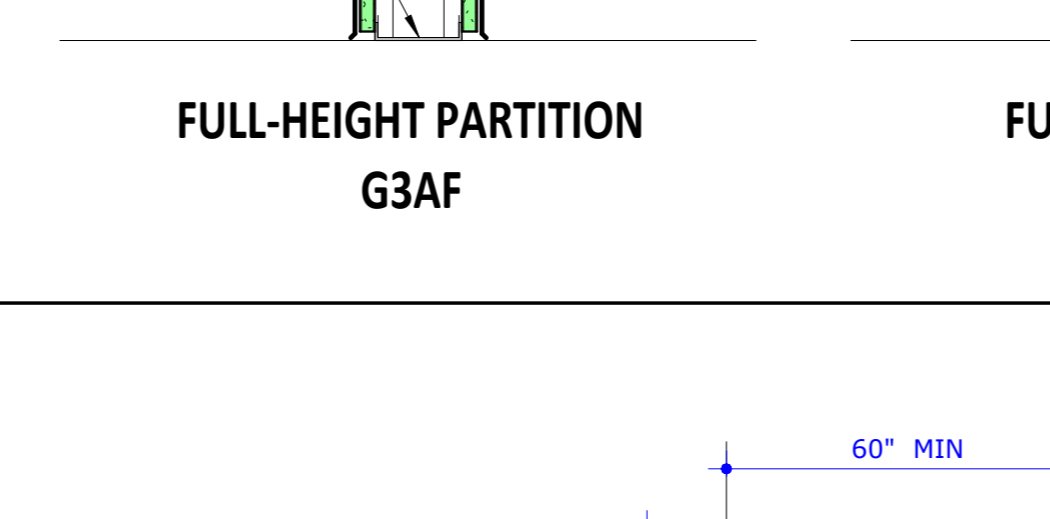
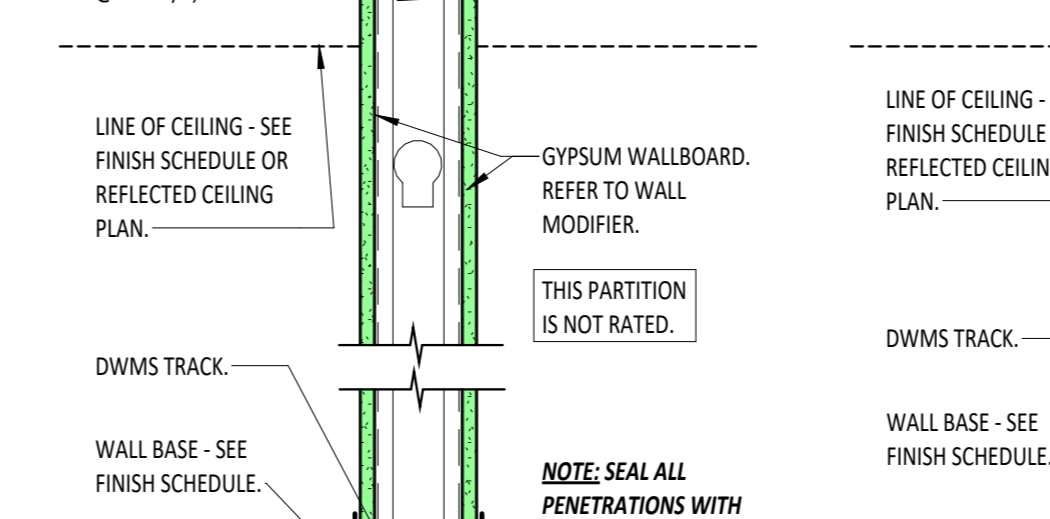
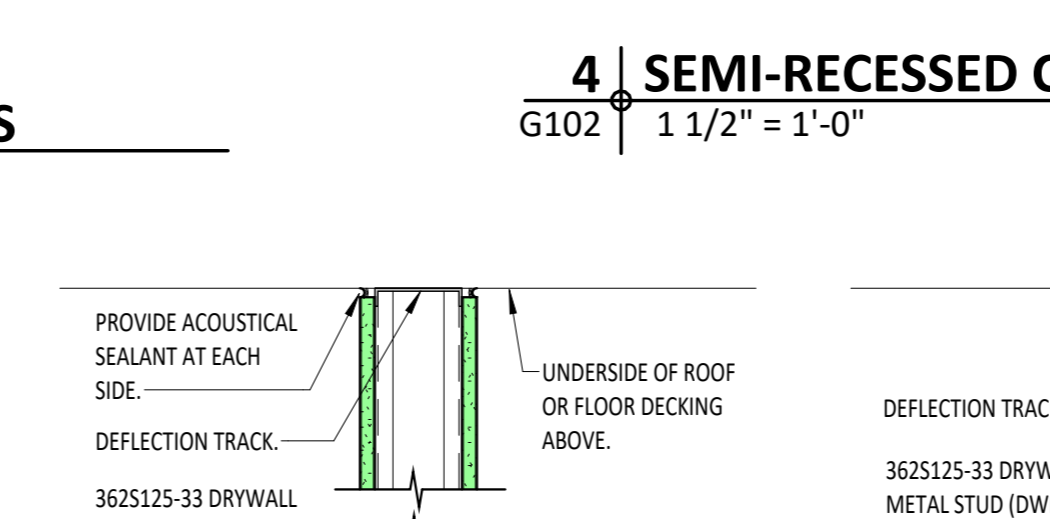
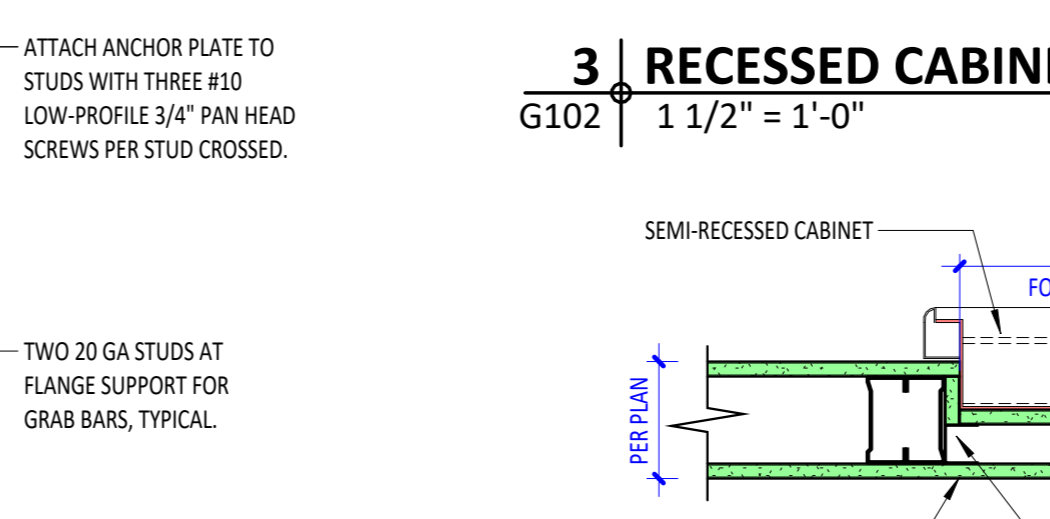
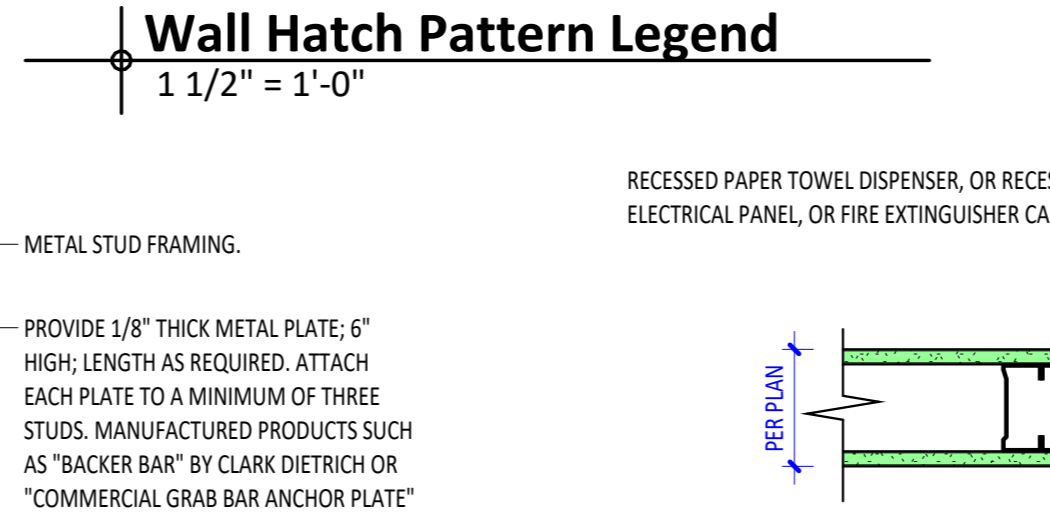
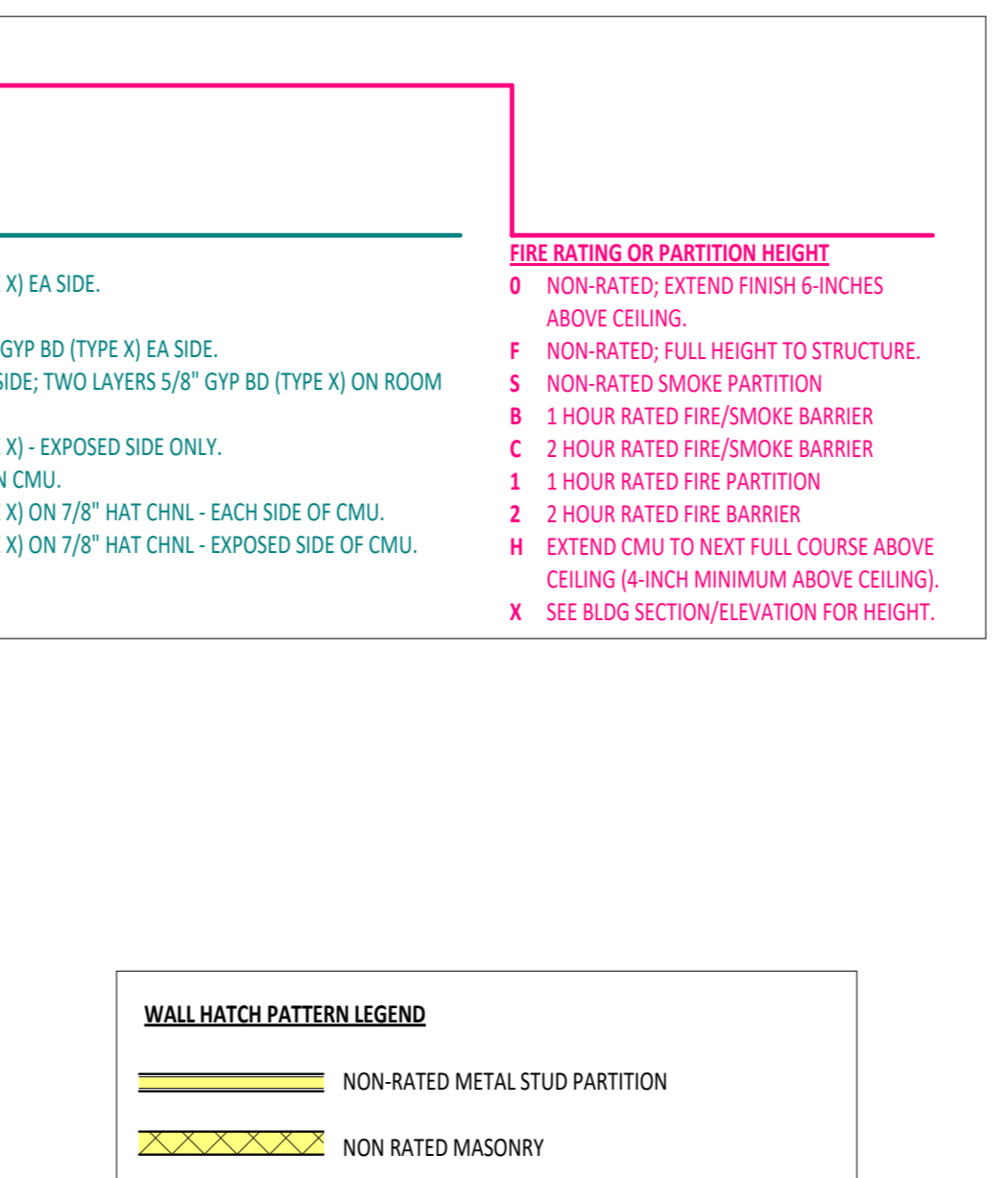
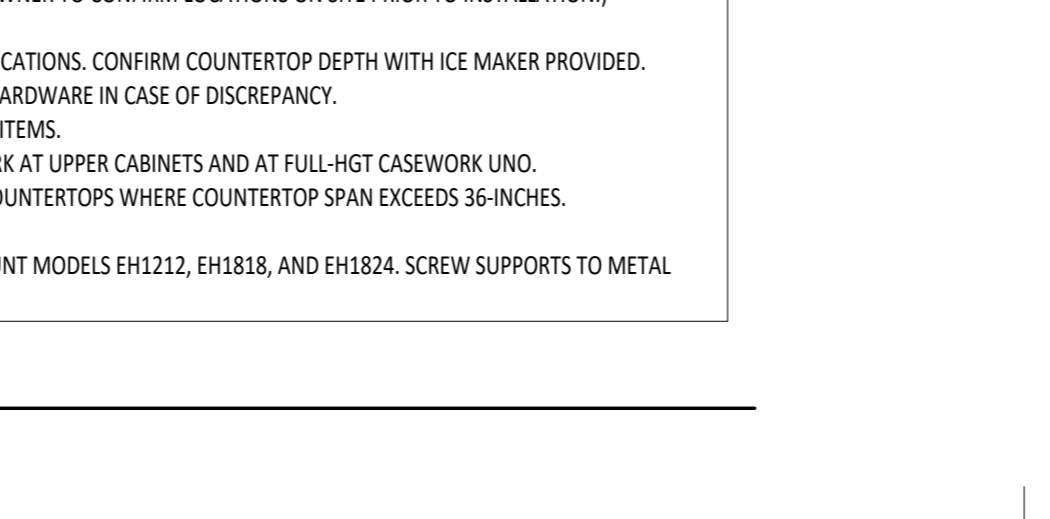
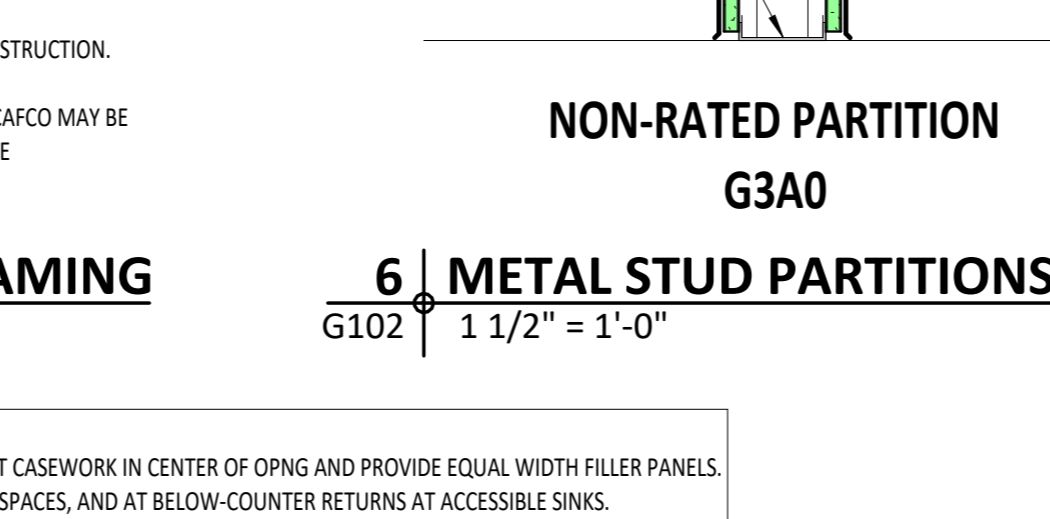
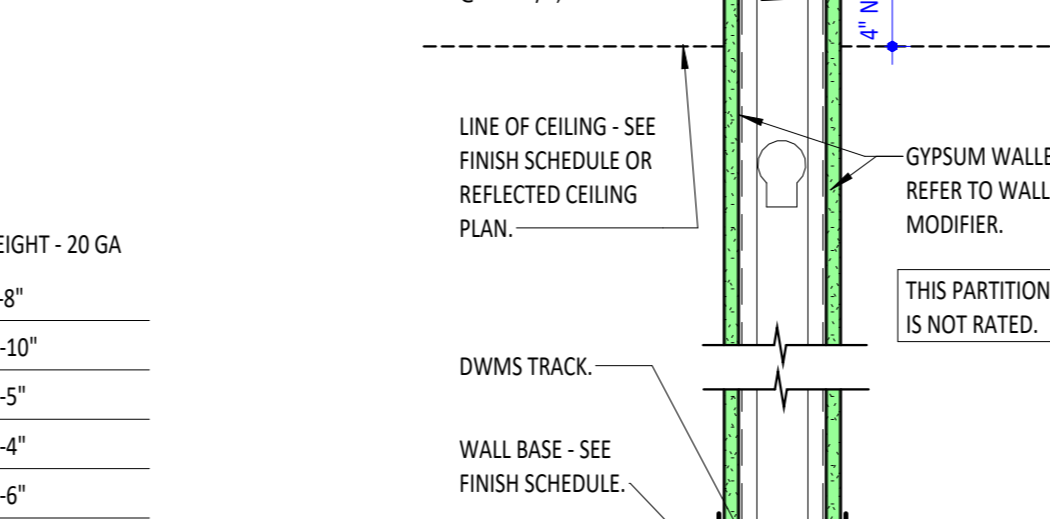
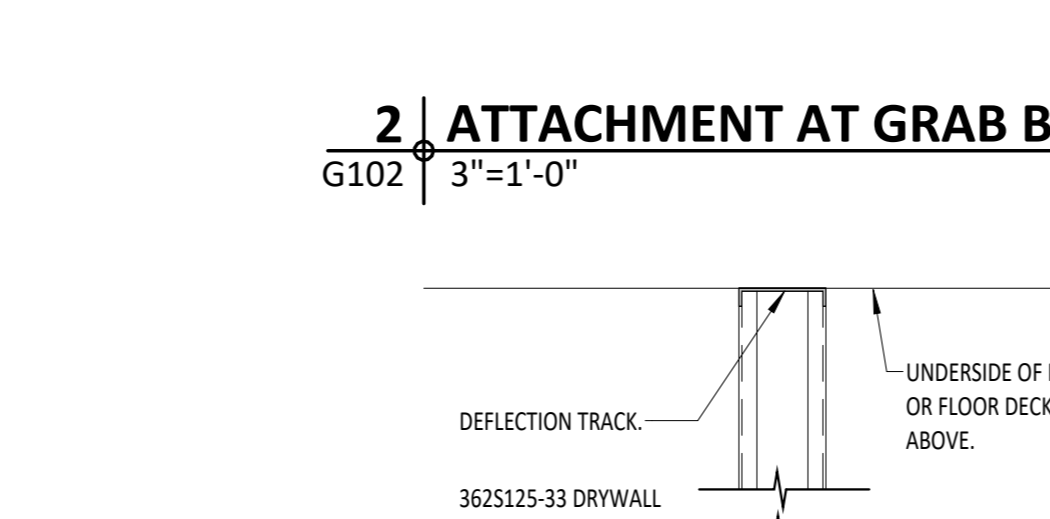
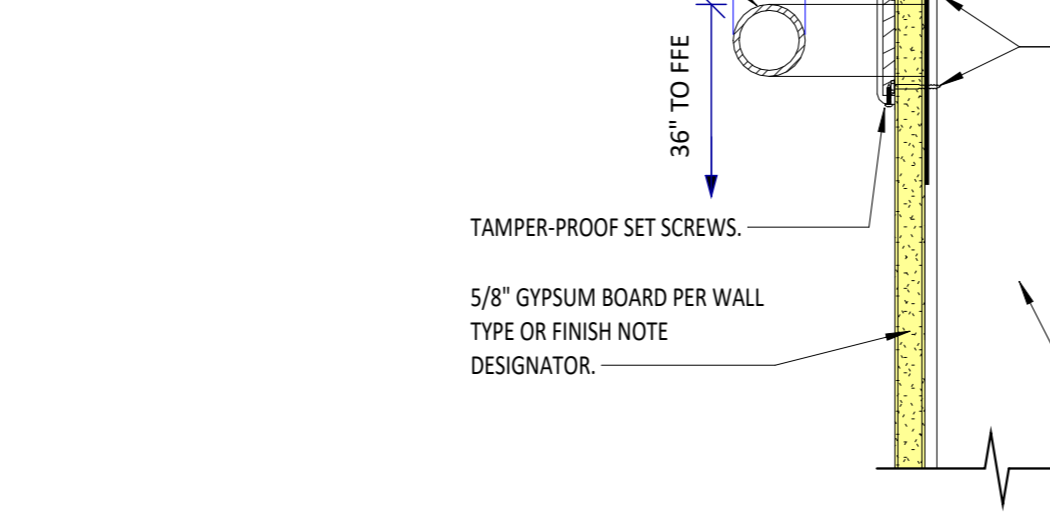
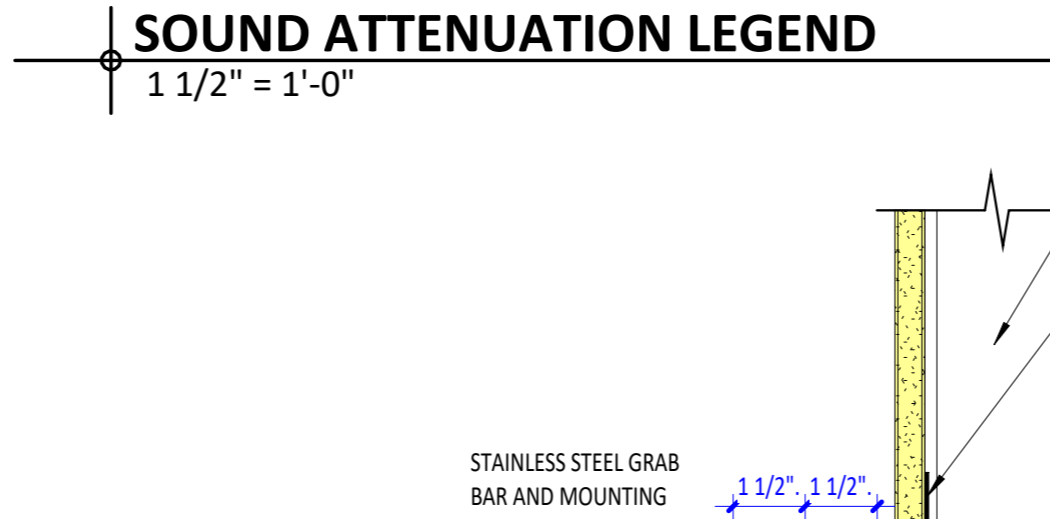
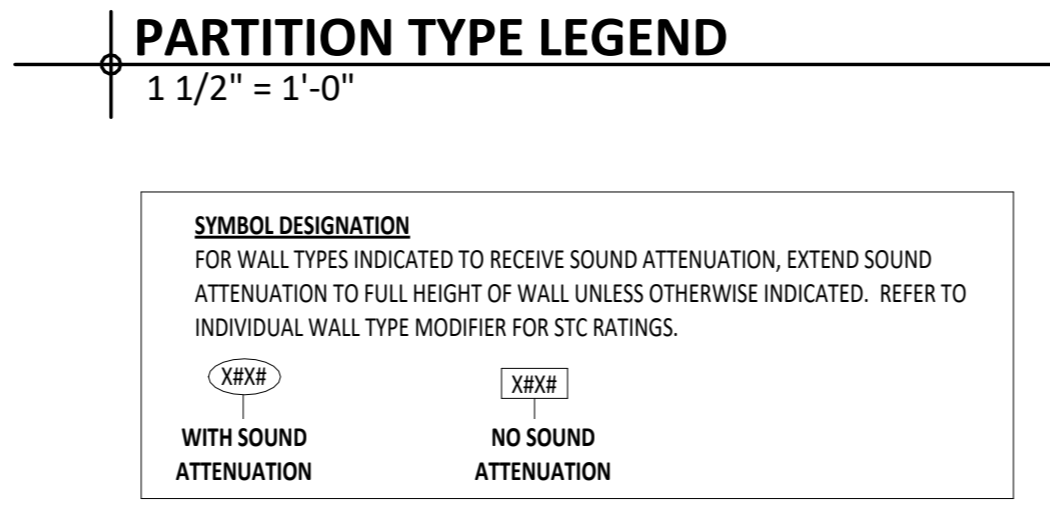
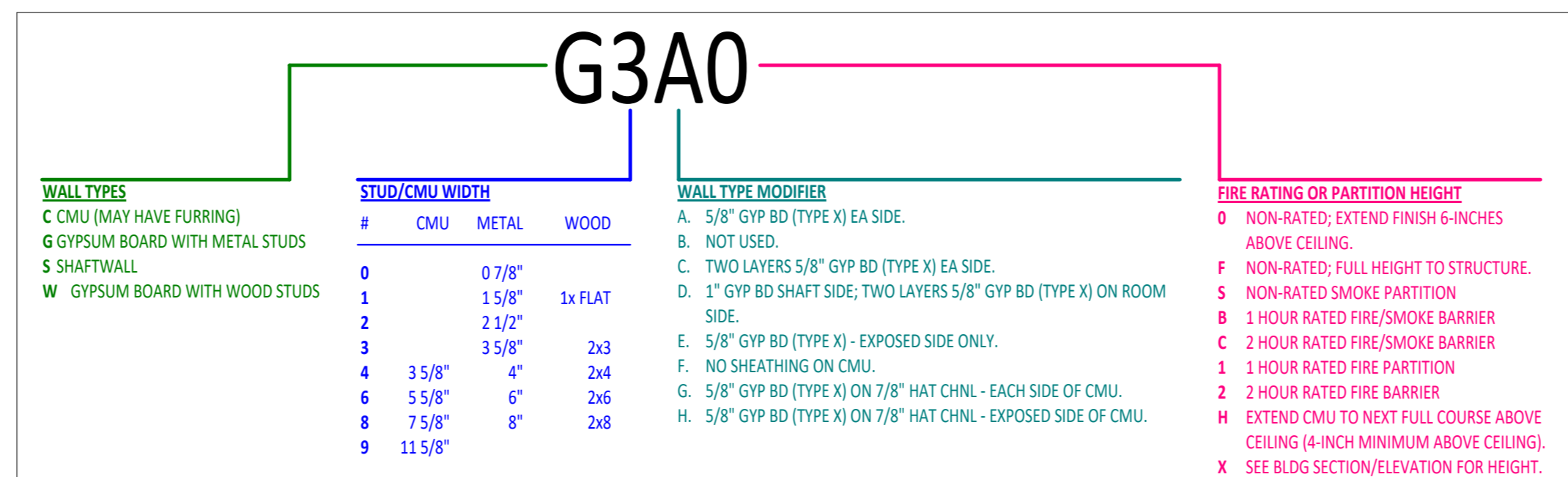
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PROJECT STATUS:	100% CDs
REVISION NO. (IF ANY):	REVISION DATE:
PROJECT NO.:	ISSUE DATE:
2025-119	23 MAR 2026
DRAWING NAME:	TITLE DRAWING

G101

ABBREVIATIONS

ABBREV	TERM	ABBREV	TERM	ABBREV	TERM
A	AND	FFE	FINISH FLOOR ELEVATION	PERP	PERPENDICULAR
&+	AND	FH	FLAT HEAD, FIRE HYDRANT	PL	PLATE
@	AT	FHC	FIRE HOSE CABINET	PLAM	PLASTIC LAMINATE
A/C	AIR CONDITIONING	FIN	FINISH	PLAS	PLASTER
A/V	AUDIO/VISUAL	FIXT	FIXTURE	PLBG	PLUMBING
AN	ANCHOR BOLT	FLASH	FLASHING	PLF	POUNDS PER LINEAL FOOT
ACC	ACCESSIBLE	FLOOR	FLOOR	PLYWD	PLYWOOD
ACUST	ACOUSTICAL	FLR	FLUORESCENT	PNL	PANEL
ACT	ACTUATOR	FND	FOUNDATION	PNT	PAINT, PAINTED
AD	AREA DRAIN	FO	FACE OF	POL	POLISHED
ADI	ADJACENT, ADJUSTABLE	FP	FIRE PROTECTION	PR	PAIR
AF	ABOVE FINISHED FLOOR	FRG	FIREPROOFING	PREFAB	PREFABRICATED
AGG	ABOVE FINISHED GRADE	FR	FIRE RESISTANT	PROJ	PROJECT
ALR	ALTERNATE	FRP	FIBER REINFORCED CONCRETE	PSF	POUNDS PER SQUARE FOOT
ALT	ALTERNATE	FRC	FIBER REINFORCED PANEL	PT	POINT, PRESSURE-TREATED
ALUM	ALUMINUM	FRT	FIRE RETARDANT TREATED	PTD	PAINTED
ANOD	ANODIZED	FT	FEET, FOOT	PTN	PARTITION
APC	ACOUSTICAL PANEL CEILING	FTG	FOOTING	PVC	POLYVINYL CHLORIDE
APPROX	APPROXIMATE	FURN	FURNITURE	Q	QUANTITY
ARCH	ARCHITECTURAL	FURK	FURNISHING	QT	QUARRY TILE
ASPH	ASPHALT	FVPC	FABRIC WALL COVERING	QTY	QUANTITY
ATTN	ATTENTION	FWP	FABRIC WRAPPED PANEL	R	RADIUS, RISER
AUTO	AUTOMATIC	GA	GAUGE	RA	RETURN AIR
B	BASE CABINET	GALV	GALVANIZED	RD	RADIUS
BCAB	BASE CABINET	GB	GRAB BAR	RO	RESILIENT BASE
BD	BOARD	GB, GWB	GYPSON (WALL) BOARD	RBR	RUBBER
BG	BUMPER GUARD	GC	GENERAL CONTRACTOR	RCP	REFLECTED CEILING PLAN
BIT	BITUMINOUS	GEN	GENERAL	ROD	ROOF DRAIN
BLD	BED LOCATOR, BUILDING LINE	GFR	GLASS FIBER REINFORCED CONCRETE	REC	RECESSED
BLG	BLOCK	GL	GLASS	RECP	RECEPTACLE
BLKG	BLOCKING	GLAZ	GLAZING	REF	REFERENCE, REFRIGERATOR
BM	BEAM	GRAN	GRANULAR	REG	REGISTER
BO	BOTTOM OF	GRND	GROUND	REIN	REINFORCED; REINFORCING
BOT	BOTTOM	GRG	GLASS FIBER REINFORCED GYPSUM	REL	RELOCATE
BRG	BEARING	GSM	GALVANIZED SHEET METAL	REM	REMOVABLE
BRK	BRICK	GV	GAS VALVE	REQ	REQUIRED, REQUIRED
BRKT	BRACKET	GYP	GYPSUM	REQD	REQUIRED
BSMNT	BASEMENT	H	HIGH, HEIGHT	RESIL	RESILIENT
BUR	BUILT-UP ROOFING	H, HT	HIGH, HEIGHT	REV	REVISION, REVISED
C	CHANNEL	HB	HOSE BIB	RM	ROOM
C.C	CONTRACTOR-FURNISHED, CONTRACTOR-INSTALLED	HC	ACCESSIBLE	RO	ROUGH OPENING
CAB	CABINET	HOWC	HARDWOOD	RTD	RATED
CAT	CATEGORY	HW	HARDWARE	RTG	RATING
CATV	CABLE TELEVISION	HGT	HEIGHT	RTU	ROOF TOP UNIT
CB	CATCH BASIN, CEMENT BOARD	HML	HOLLOW METAL	S	SOUTH
CBU	CEMENTITIOUS BACKER UNIT	HNDRL	HANDRAIL	S	SOUTH
CD	CENTER-TO-CENTER	HO	HOLD OPEN	SA	SUPPLY AIR
CCV	CLOSED-CIRCUIT TELEVISION	HORIZ	HORIZONTAL	SAF	SELF-ADHERED FLASHING
CEM	CEMENT	HR	HOUR	SCHD	SCHEDULE
CER	CERAMIC	HRC	HOSE REEL CABINET	SCW	SOLID CORE WOOD
CG	CORNER GUARD	HSKG	HOUSEKEEPING	SD	STORM DRAIN
CH	CHILLER	HSS	HOLLOW STRUCTURAL SECTION	SECT	SECTION
CI	CAST IRON	HTG	HEATING	SF	SQUARE FEET, SQUARE FOOT
CP	CAST-IN-PLACE	HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	SH	SHOWER
CR	CONTROL JOINT, CONSTRUCTION JOINT	HW	HOT WATER; HAND WASH	SHR	SHOWER
CL	CENTRILINE	ID	INSIDE DIAMETER	SHT	SHEET
CLD	CLEAR	IN	INSIDE DIAMETER	SM	SIMILAR
CLM	CLEAR	INCH, INCHES	IN	SM	SHEET METAL, SURFACE-MOUNTED
CLR	CLEAR	INCAND	INCANDESCENT	SP	STAIRPIPE
CNC	CONCRETE MASONRY UNIT	INCL	INCLUDED; INCLUDING	SPEC	SPECIFICATION; SPECIFIED
CNTR	CENTER, COUNTER	INFO	INFORMATION	SPK	SPEAKER
CO	CASED OPENING; CLEANOUT	INSUL	INSULATED; INSULATION	SPKR	SPEAKER
COL	COLUMN	INT	INTERIOR	SQ	SQUARE
CONC	CONCRETE	INV	INVERT	SS	STAINLESS STEEL
COND	CONDITION	JAN	JANITOR	SSK	SERVICE SINK
CONN	CONNECTION	JCT	JANITOR'S CLOSET	STA	STATION
CONST	CONSTRUCTION	JS	JOIST	STC	SOUND TRANSMISSION COEFFICIENT
CONT	CONTINUOUS	JT	JOINT	STL	STEEL
CONTR	CONTRACTOR	K	KIP (1000 POUNDS)	STOR	STORAGE
COORD	COORDINATE	K	KIP (1000 POUNDS)	STRNG	STRINGER
CORR	CORRIDOR	KD	KNOCK DOWN	STRUC	STRUCTURE; STRUCTURAL
CPT	CARPET	KIT	KITCHEN	SUBCAT	SUBCATEGORY
CR	CRASH RAIL	KO	KNOCK OUT	SUSP	SUSPENDED
CSS	CLINICAL SERVICE SINK	KP	KICK PLATE	SYM	SYMMETRICAL
CT	CERAMIC TILE	KSF	KIPS PER SQUARE FOOT	SYS	SYSTEM
CTR	CENTER	L	LAMINATE	T	TREAD
CTSK	COUNTERSUNK	LAM	LAMINATE	T&B	TOP AND BOTTOM
CW	COLD WATER; CURTAIN WALL	LAV	LAVATORY	T&G	TONGUE AND GROOVE
D	DEEP, DEPTH	LB	POUNDS	TB	TOWEL BAR
DBL	DOUBLE	LGMS	LIGHT GAUGE METAL STUD (DIV 5)	TCAB	TAIL CABINET
DEG	DEGREE	LH	LONG LEG HORIZONTAL	TELE	TELEPHONE; TELECOM
DEM	DEMOLISH, DEMOLITION	LV	LONG LEG VERTICAL	TEL	TELEPHONE
DEPT	DEPARTMENT	LT	LIGHT	TEMP	TEMPERATURE; TEMPORARY
DF	DRINKING FOUNTAIN	LVT	LUXURY VINYL TILE	TEMP	TEMPORARY
DIA	DIAMETER	M	MASONRY	THK	THICKNESS
DIF	DIFFUSER	MAX	MAXIMUM	THRU	THROUGH
DIM	DIMENSION	MCH	MODIFIED BITUMEN (ROOFING)	TKBD	TACK BOARD
DIMS	DIMENSIONS	MB	MODIFIED BITUMEN (ROOFING)	TLT	TOILET
DISP	DISPENSER	MECH	MECHANICAL	TMPD	TEMPERED
DIV	DIVISION	MED	MEDIUM	TOF	TOP OF
DMPF	DAMP PROOFING	MEMB	MEMBRANE	TOB	TOP OF BEAM
DN	DOWN	MFR	MANUFACTURER	TOS	TOP OF CONCRETE
DO	DOOR OPENING	MH	MANHOLE	TOC	TOP OF CEILING
DR	DOOR	MIN	MINIMUM	TV	TELEVISION
DRN	DRAIN	MISC	MISCELLANEOUS	TY	TYPICAL
DS	DOWNSPOUT	MSO	MASONRY OPENING	U	UNFINISHED
DTL	DETAIL	MR	MOISTURE RESISTANT	UNFIN	UNFINISHED
DWSH	DISHWASHER	MNTD	MOUNTED	UNO	UNLESS NOTED OTHERWISE
DWG	DRAWING	MTG	MOUNTING	UNO	UNLESS OTHERWISE NOTED
DWMS	DRYWALL METAL STUD (DIV 9)	MTL	METAL	URNL	URINAL
DWR	DRAWER	MULL	MULLION	V	VARIABLE
E	EAST	N	NOTE	V	VARIABLE
EA	EACH	N/A	NOT APPLICABLE	VCT	VINYL COMPOSITION TILE
EB	EXPANSION BOLT	NC	NOISE CRITERIA	VERT	VERTICAL
EJ	EXPANSION JOINT	NC	NOISE CRITERIA	VST	VESTIBULE
EL	ELEVATION	NIC	NOT IN CONTRACT	VST	VERIFY IN FIELD
ELC	ELECTRICAL	ND	NUMBER	VP	VISION PANEL
ELEV	ELEVATOR, ELEVATION	NOM	NOMINAL	VR	VAPOR RETARDER
EMER	EMERGENCY	NR	NOT (FIRE) RATED	VVC	VINYL WALL COVERING
ENCL	ENCLOSURE	NTS	NOT TO SCALE	W	WIDE; WEST
ENR	ENGINEER	O	OWNER-FURNISHED, CONTRACTOR-INSTALLED	W	WITH
EP	ELECTRICAL PANEL	O.O	OWNER-FURNISHED, OWNER-INSTALLED	W/O	WITHOUT
EQM	ETHYLENE PROPYLENE DIENE M-CASS (ROOFING)	O/C	ON CENTER	WC	WATER CLOSET
EQ	EQUAL	OA	OUTSIDE AIR	WCAB	WALL CABINET
EQUIP	EQUIPMENT	OD	OUTSIDE DIAMETER; OVERFLOW DRAIN	WD	WOOD
EVS	ENVIRONMENTAL SERVICES	OFF	OFFICE	WIN	WINDOW
EXH	EXHAUST	OH	OVERHEAD, OPPOSITE HAND	WPM	WATERPROOF; WATERPROOFING
ENST	EXISTING	OPN	OPENING	WPM	WATERPROOF MEMBRANE
EXP	EXPANSION	OPP	OPPOSITE	WS	WEATHERSTRIPPING
EXT	EXTERIOR	ORD	OVERFLOW ROOF DRAIN	WST	WANSOFT
F	FIRE ALARM	P	PAINT	WT	WEIGHT
FA	FACE BRICK	PV	PAVING	WV	WATER VALVE
FD	FLOOR DRAIN; FIRE DEPARTMENT	PC	PARTICLE BOARD	WWF	WELED WIRE FABRIC
FDC	FIRE DEPARTMENT CONNECTION	PB	PRECAST	WWM	WELED WIRE MESH
FE	FIRE EXTINGUISHER	PDF	POWER DRIVEN FASTENER		
FEC	FIRE EXTINGUISHER CABINET	PEMB	PRE-ENGINEERED METAL BUILDING		
FFR	FURNITURE, FIXTURES AND EQUIPMENT	PERF	PERFORATED		
FFB	FLUSH FLOOR BOX	PERIM	PERIMETER		



**2021 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)**

Name of Project: TACH - Floyd Elementary School
 Address: 531 Oak Hill DR, Floyd Va Zip Code 24081
 Owner/Authorized Agent: James Worth Phone # (276) 398-2292 E-Mail: jworth@traneva.org
 Owned By: City/County Private State
 Code Enforcement Jurisdiction: City County/Floyd State

CONTACT:
 DESIGNER: FIRM: WMA Architects NAME: Yanney Powers LICENSE # 040101004 TELEPHONE # (478) 475-4946 E-MAIL: yanneypowers@wma.com
 Architectural: Civil: Electrical: CES, INC. David Goodson 11059277 (336) 724-0139 David@ceasing.net
 Fire Alarm: CES, INC. David Goodson 11059277 (336) 724-0139 David@ceasing.net
 Plumbing: CES, INC. David Goodson 11059277 (336) 724-0139 David@ceasing.net
 Mechanical: CES, INC. David Goodson 11059277 (336) 724-0139 David@ceasing.net
 Sprinkler-Standpipe: Structural: Retaining Walls >5' High: Other:

2021 VA BUILDING CODE: New Building Addition Renovation
 1st Time Interior Completion
 Shell/ Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
 Phased Construction - Shell/ Core - Contact the local inspection jurisdiction for possible additional procedures and requirements

2021 VA EXISTING BUILDING CODE: EXISTING: Prescriptive Repair Chapter 14
 Alteration: Level I Level II Level III
 Historic Property Change of Use

CONSTRUCTED: (date) _____ CURRENT OCCUPANCY(S) (Ch. 3): Education / Business/ S-1
 RENOVATED: (date) _____ PROPOSED OCCUPANCY(S) (Ch. 3): Education / Business/ S-1

RISK CATEGORY (Table 1604.5): Current: I II III IV
 Proposed: I II III IV

BASIC BUILDING DATA
 Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B
 Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
 Standpipes: No Yes Class I II III Wet Dry
 Fire District: No Yes Flood Hazard Area: No Yes
 Special Inspections Required: No Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

FLOOR	Gross Building Area Table		SUB-TOTAL
	EXISTING (SQ FT)	NEW (SQ FT)	
3 rd Floor			
2 nd Floor			
Mezzanine			
1 st Floor	3,523		
Basement			
TOTAL	3,523		

ALLOWABLE AREA
 Primary Occupancy Classification(s):
 Assembly: A-1 A-2 A-3 A-4 A-5
 Business:
 Educational:
 Factory: I-1 Moderate F-2 Low
 Hazardous: H-1 Detonate H-2 Dehagrate H-3 Combust H-4 Health H-5 HPM
 Institutional: I-1 Condition I-2 I-2 Condition I-3 I-3 Condition I-4
 Mercantile:
 Residential: R-1 R-2 R-3 R-4
 Storage: S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
 Utility and Miscellaneous:

Accessory Occupancy Classification(s):
 Incidental Uses (Table 509):
 Special Uses (Chapter 4 - List Code Sections):
 Special Provisions (Chapter 5 - List Code Sections):
 Mixed Occupancy: No Yes Separation: _____ Hr. Exception: _____
 Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
 Separated Use (508.4) - See below for area calculations for each story; the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 506.2.4 AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,3}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,4}
1	Education	1968	9500		
1	Business	962	9000		
1	S-1	593	9000		

¹ Frontage area increases from Section 506.3 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
 b. Total Building Perimeter = _____ (P)
 c. Ratio (F/P) = _____ (F/P)
 d. W = Minimum width of public way = _____ (W)
 e. Percent of frontage increase $F_p = 100[(F/P) - 0.25] \times W/30 =$ _____ (%)
² Unlimited area applicable under conditions of Section 507.
³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
⁴ The maximum area of open parking garages must comply with Table 504.5.4.
⁵ Frontage increase is based on the un-sprinklered area in Table 506.2.

BUILDING HEIGHT TO FEET (TABLE 504.3) ²	ALLOWABLE HEIGHT		CODE REFERENCE ¹
	ALLOWABLE	SHOWN ON PLANS	
40'	40'	10'	
Building Height in Stories (Table 504.4) ¹	1	1	

¹ Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
² The maximum height of air traffic control towers must comply with Table 412.3.1.
³ The maximum height of open parking garages must comply with Table 406.5.4.

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATER CLOSETS		URINALS		LAVATORIES		SHOWERS	DRINKING FOUNTAINS	
	MALE	FEMALE	UNSEX	MALE	FEMALE	UNSEX		REGULAR	ACCESSIBLE
SPACE	EXIST'G	1	1	1	1	1	1	1	1
NEW	1	1	1	1	1	1	1	1	1
REQ'D	2	2	2	2	2	2	2	2	2
PROVIDED	2	1	2	2	2	2	2	2	2

SPECIAL APPROVALS
 Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (BY REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	0	0					
Retaining Walls	0	0					
Exterior Walls	0	0					
North	0	0					
East	0	0					
West	0	0					
South	0	0					
Interior	0	0					
Nonbearing Walls and Partitions	0	0					
Exterior walls	0	0					
North	0	0					
East	0	0					
West	0	0					
South	0	0					
Interior walls and partitions	0	0					
Floor Construction including supporting beams and joists	0	0					
Floor Ceiling Assembly	0	0					
Column Supporting Floor	0	0					
Roof Construction, including supporting beams and joists	0	0					
Roof Ceiling Assembly	0	0					
Column Supporting Roof	0	0					
Shall Enclosure - East	0	0					
Shall Enclosure - Other	0	0					
Corridor Separation	0	0					
Occupancy Fire Barrier Separation	0	0					
Party Fire Wall Separation	0	0					
Smoke Barrier Separation	0	0					
Smoke Partition	0	0					
Transit Enclosure Unit	0	0					
Shooting Unit Separation	0	0					
Residential Use Separation	0	0					

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINE	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
ETR	NP	N/A	

LIFE SAFETY SYSTEM REQUIREMENTS
 Emergency Lighting: No Yes
 Exit Signs: No Yes
 Fire Alarm: No Yes
 Smoke Detection Systems: No Yes Partial
 Carbon Monoxide Detection: No Yes

LIFE SAFETY PLAN REQUIREMENTS
 Life Safety Plan Sheet #: LS101
 Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations (if not on the site plan)
 Exterior wall opening area with respect to distance to assumed property lines (705.8)
 Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
 Occupant loads for each area
 Exit sign locations (1013)
 Exit access travel distances (1017)
 Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
 Dead end lengths (1020.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
 Location of doors with panic hardware (1010.1.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Location of doors with electromagnetic egress locks (1010.1.9.9)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1030)
 The square footage of each fire area (202)
 The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
 Note any code exceptions or table notes that may have been utilized regarding the items above

ENERGY REQUIREMENTS
 The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: No Yes (The remainder of this section is not applicable)
 Exempt Building: No Yes (Provide code or statutory reference):
 Climate Zone: 3A 4A 5A
 Method of Compliance: Energy Code Performance Prescriptive
 ASHRAE 90.1 Performance Prescriptive
 (If "Other" specify source here)

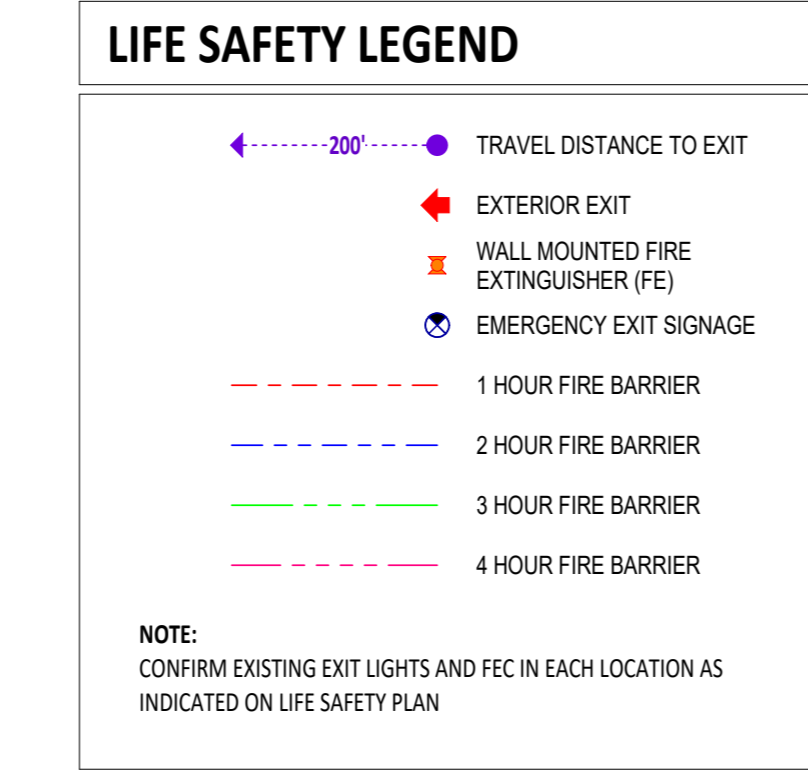
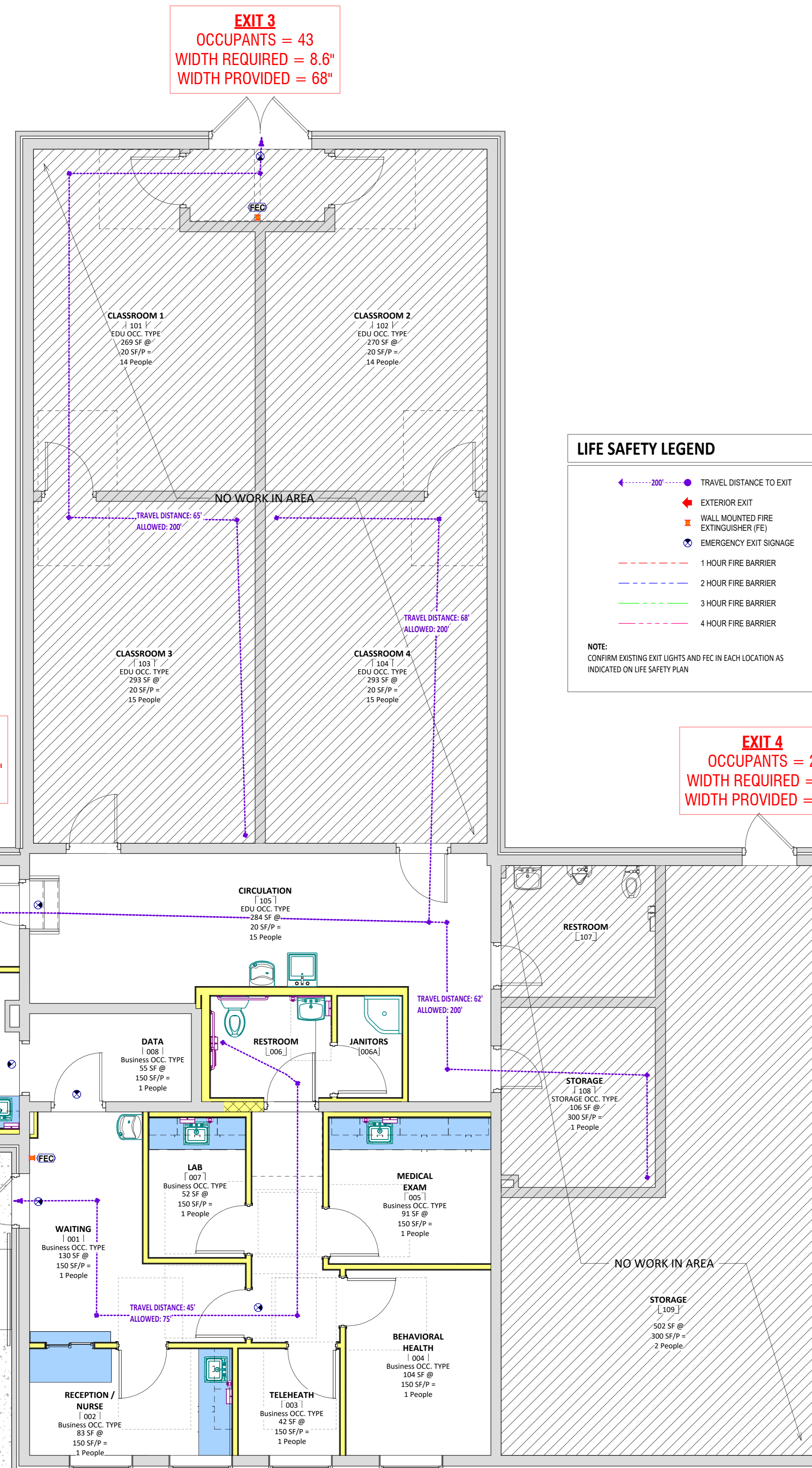
THERMAL ENVELOPE (Prescriptive method only)
Roof/Ceiling Assembly (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Skylights in each assembly: _____
 U-Value of skylight: _____
 total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Openings (windows or doors with glazing)
 U-Value of assembly: _____
 Solar heat gain coefficient:
 projection factor:
 Door R-Values: _____

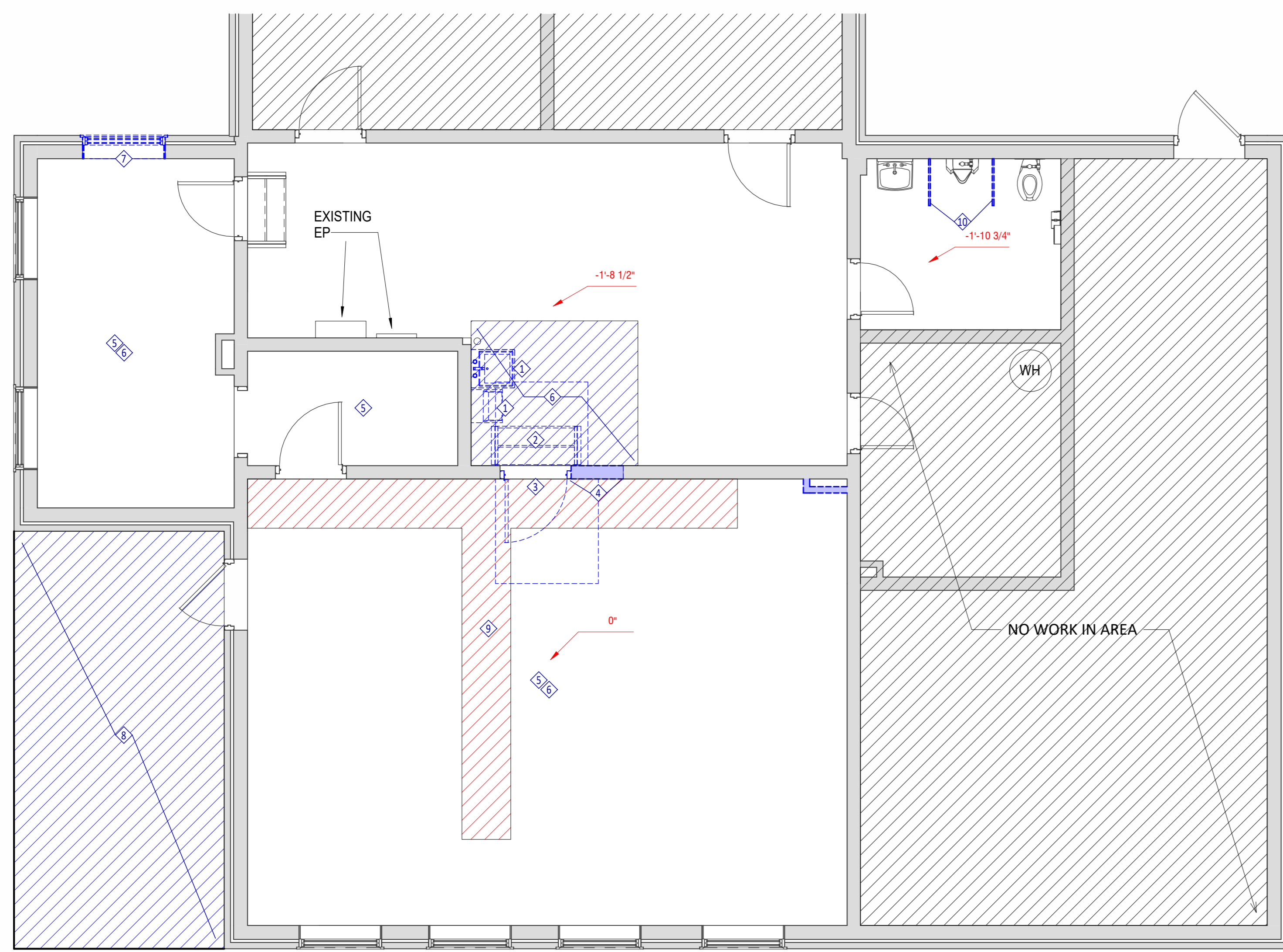
Walls below grade (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____

Floors over unconditioned space (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____

Floors slab on grade
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation:
 Horizontal/vertical requirement:
 slab heated: _____

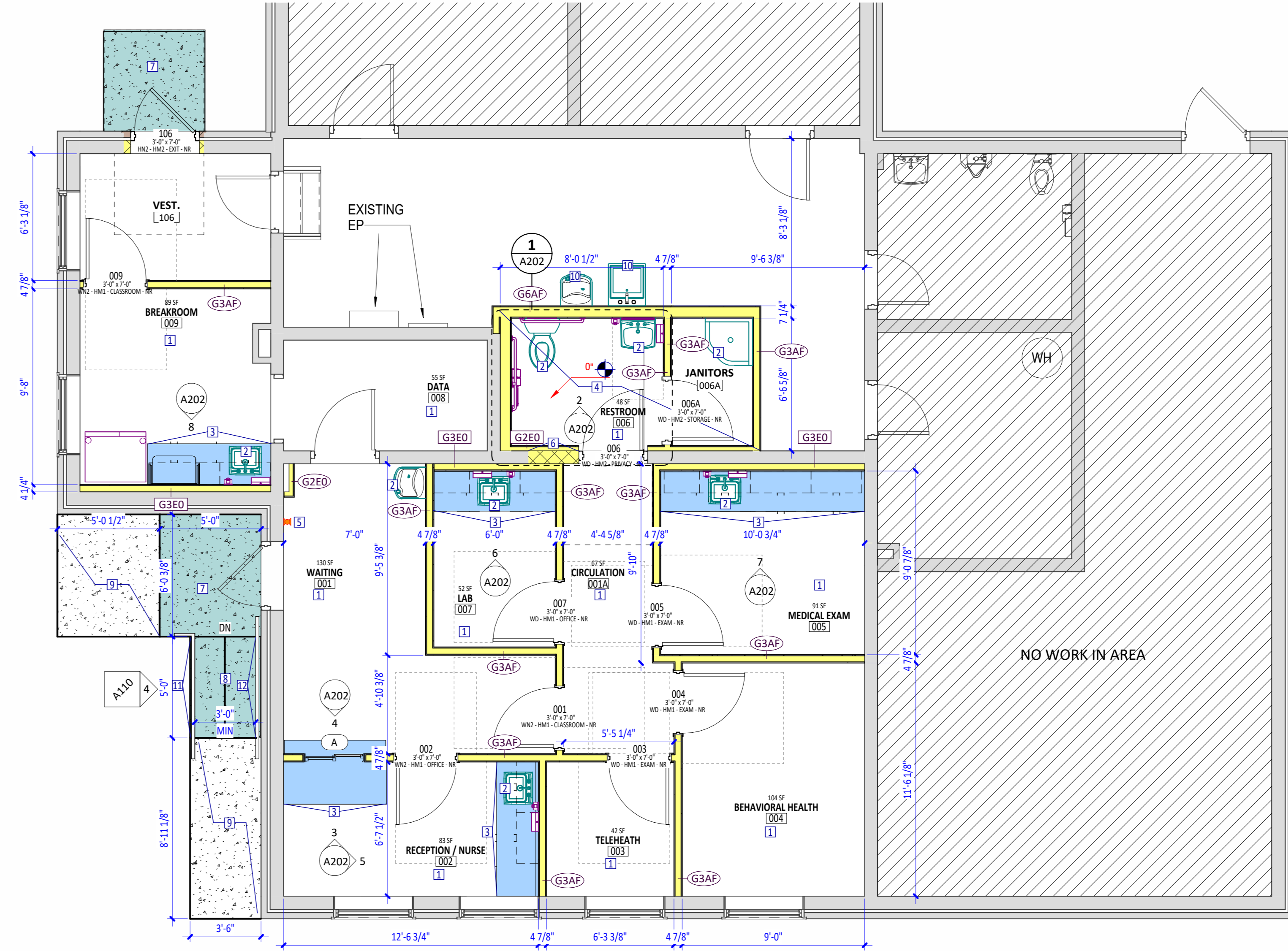


RENOVATIONS TO
TACH Floyd Elementary
 531 OAK HILL DR SW
 FLOYD, VA 24091



1 | LEVEL 1 DEMO PLAN
A110 | 1/4" = 1'-0"

KEYNOTES - DEMOLITION	
Keynote Number	Description
1	SALVAGE EXISTING PLUMBING FIXTURE. TO BE REINSTALLED
2	DEMO EXISTING STAIRS
3	DEMO EXISTING DOOR AND FRAME AND INFILL WALL TO MATCH EXISTING CONSTRUCTION
4	DEMO EXISTING WALL AND PREPARE FOR NEW OPENING
5	DEMO EXISTING FLOORING AND PREPARE FOR NEW
6	DEMO EXISTING CEILING AND PREPARE FOR NEW
7	DEMO EXISTING WALL AND WINDOW. PREPARE FOR NEW DOOR OPENING
8	DEMO EXISTING CONCRETE
9	SAW CUT SLAB AS NEEDED TO INSTALL PLUMBING FOR NEW LAYOUT. REF PLUMBING
10	DEMO PARTITIONS TO CREATE SINGLE USE RESTROOM



2 | LEVEL 1 NEW WORK PLAN
A110 | 1/4" = 1'-0"

KEYNOTES - NEW WORK	
Keynote Number	Description
1	NEW OWNER SELECTED FLOORING TO BE INSTALLED
2	NEW PLUMBING FIXTURE TO BE INSTALLED
3	NEW CASEWORK TO BE INSTALLED. REF INTERIOR ELEVATIONS
4	RAISE EXISTING LOWER FLOOR AREA WITH NEW FRAMED CONSTRUCTION TO ALIGN FINISHED FLOOR WITH ADJACENT SPACES.
5	PROVIDE NEW WALL MOUNTED FIRE EXTINGUISHER CABINET
6	INFILL WALL TO MATCH EXISTING CONDITION
7	PROVIDE 5' X 5' MIN CONCRETE STOPE. NOT TO EXCEED 2% SLOPE
8	PROVIDE CONCRETE RAMP NOT TO EXCEED 1:12 SLOPE
9	PROVIDE 4" CONCRETE SIDE WALK. TIE INTO EXISTING ASPHALT PARKING LOT
10	REINSTALL SALVAGED PLUMBING FIXTURE
11	PROVIDE 36" HANDRAIL WITH VERTICAL PICKETS 4" O.C. EXTEND 1' FROM RAMP ON EACH SIDE
12	PROVIDE 36" WALL MOUNTED HANDRAIL. EXTEND 12" FROM RAMP ON EACH SIDE



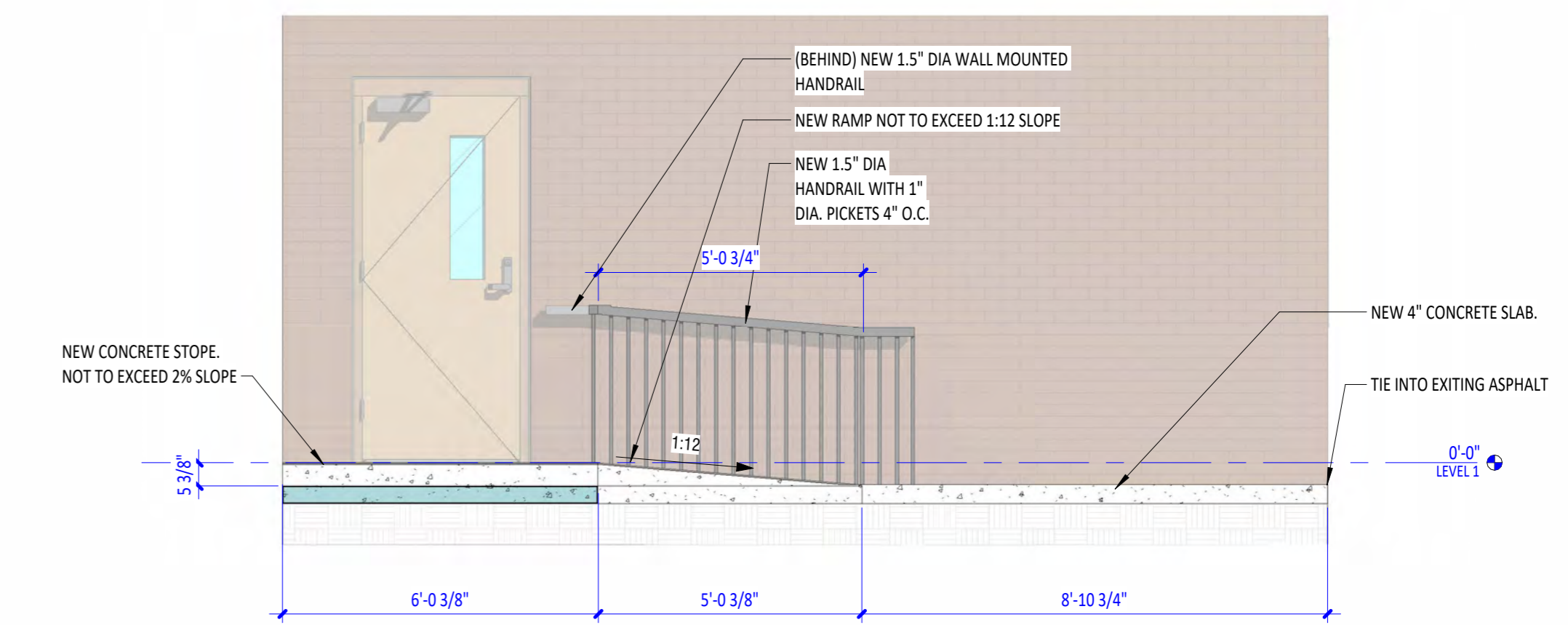
3 | LEVEL 1 RCP
A110 | 1/4" = 1'-0"

RCP LEGEND	
	CEILING AC1 24" X 24" ACOUSTICAL CEILING TILE 15/16" GRID
	CEILING GB1 GYPSUM BOARD CEILING PAINT P-1
	DIFFUSER - SQUARE SUPPLY
	REGISTER - SQUARE RETURN
	REGISTER - EXHAUST
	LIGHTING - RECESSED FIXTURE
	LIGHTING - RECESSED FIXTURE
	EXIT SIGNAGE

NOTE:
REFLECTED CEILING PLAN(S) ON ARCHITECTURAL DRAWINGS OFTEN DO NOT INDICATE ALL CEILING-MOUNTED ITEMS. SEE DRAWINGS OF OTHER DISCIPLINES FOR ADDITIONAL ITEMS. COORDINATE INSTALLATION OF ALL REQUIRED CEILING ITEMS.

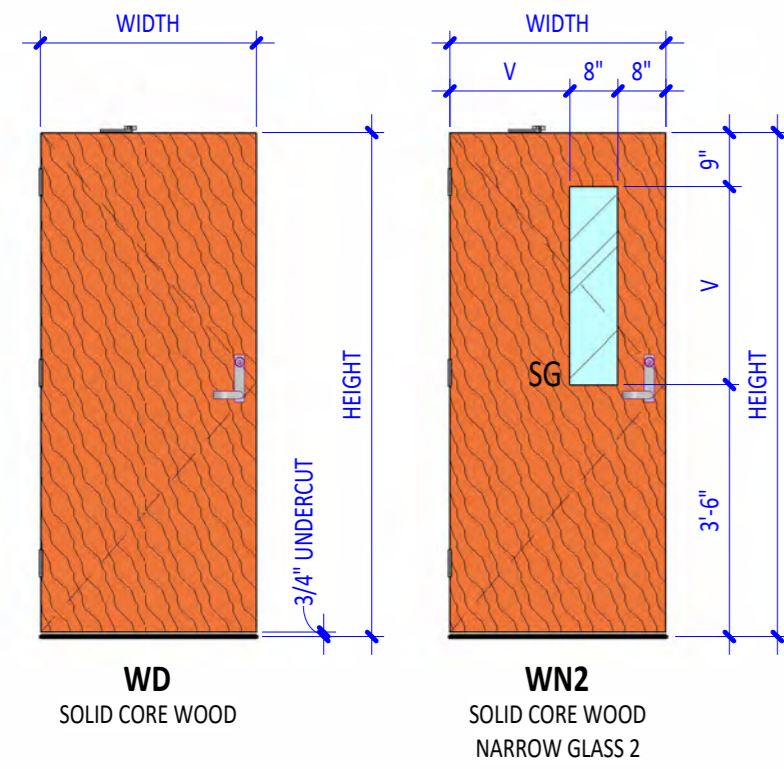
COLOR SHADES USED ON REFLECTED CEILING PLANS AND LEGENDS ARE PROVIDED TO HELP THE CONTRACTOR IDENTIFY TYPES OF CEILINGS. THESE SHADES DO NOT INDICATE FINISH COLORS.

RCP LEGEND
1/8" = 1'-0"

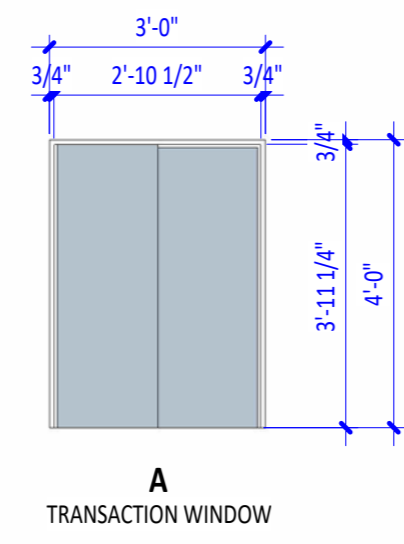


4 | RAMP DETAIL
A110 | 3/8" = 1'-0"

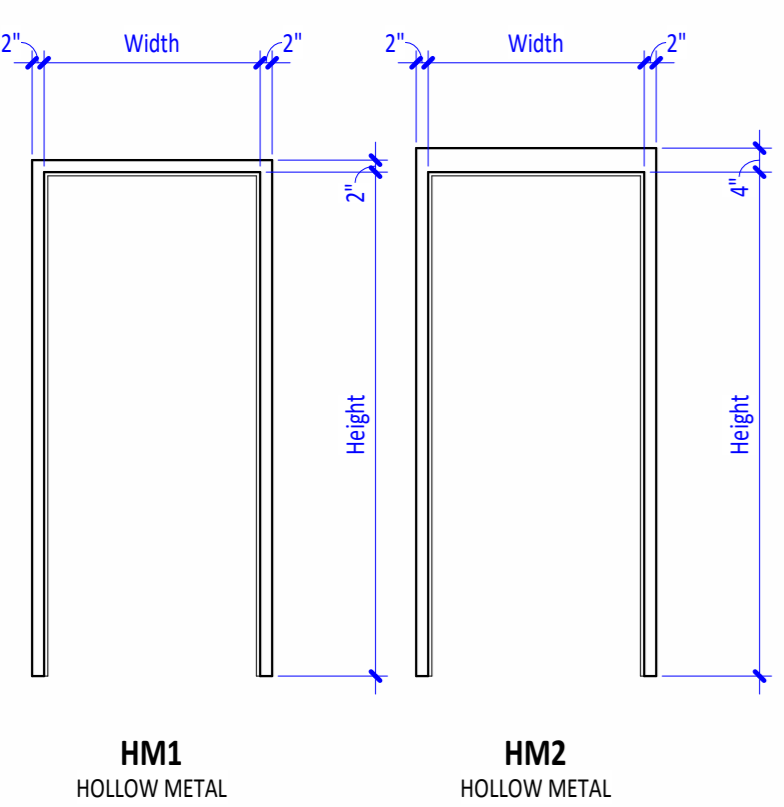
DOOR SCHEDULE WM2A												
OPNG NO	QNTY	FROM ROOM	TO ROOM	WIDTH	HEIGHT	DOOR TYPE	FRAME TYPE	HEAD DTL	JAMB DTL	HW SET	RATED OPNG	COMMENTS
004	SINGLE - SWINGING	CIRCULATION	BEHAVIORAL HEALTH	3'-0"	7'-0"	WD	HM1	HA	JA	EXAM	NR	
002	SINGLE - SWINGING	WAITING	RECEPTION / NURSE	3'-0"	7'-0"	WN2	HM1	HA	JA	OFFICE	NR	
003	SINGLE - SWINGING	CIRCULATION	TELEHEATH	3'-0"	7'-0"	WD	HM1	HA	JA	EXAM	NR	
005	SINGLE - SWINGING	CIRCULATION	MEDICAL EXAM	3'-0"	7'-0"	WD	HM1	HA	JA	EXAM	NR	
006	SINGLE - SWINGING	CIRCULATION	RESTROOM	3'-0"	7'-0"	WD	HM2	CA	CA	PRIVACY	NR	
001	SINGLE - SWINGING	WAITING	CIRCULATION	3'-0"	7'-0"	WN2	HM1	HA	JA	CLASSROOM	NR	
007	SINGLE - SWINGING	CIRCULATION	LAB	3'-0"	7'-0"	WD	HM1	HA	JA	OFFICE	NR	
006A	SINGLE - SWINGING	RESTROOM	JANITORS	3'-0"	7'-0"	WD	HM2	HA	JA	STORAGE	NR	
106	SINGLE - SWINGING	VEST.	VEST.	3'-0"	7'-0"	WN2	HM2	CA	CA	EXIT	NR	
009	SINGLE - SWINGING	BREAKROOM	VEST.	3'-0"	7'-0"	WN2	HM1	HA	JA	CLASSROOM	NR	



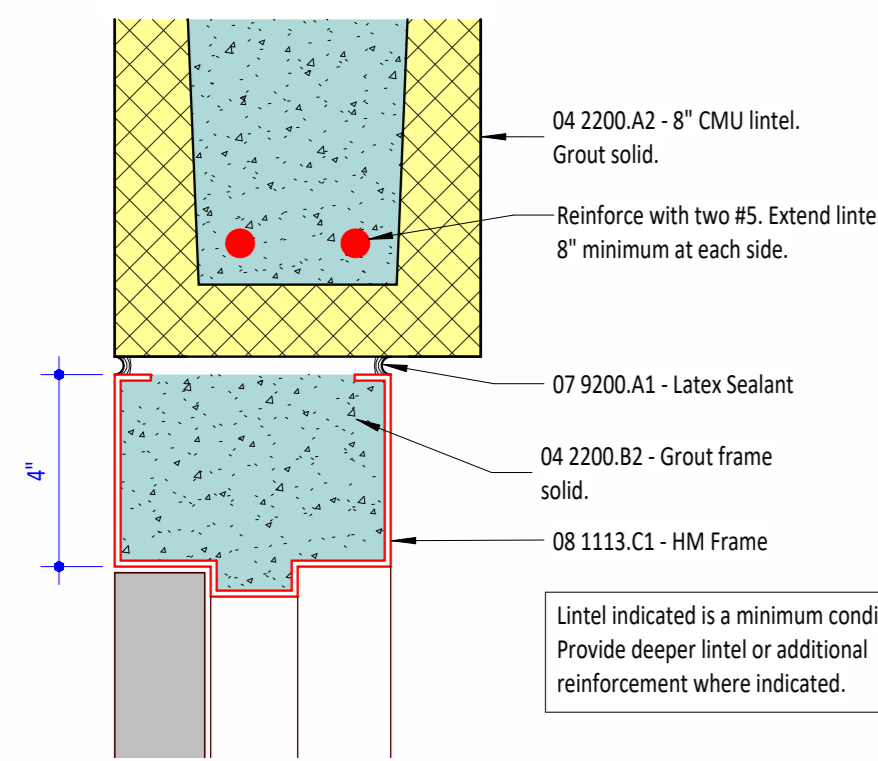
NOTES:
 TYPE WNG IS ALWAYS A RATED DOOR WITH FIRE GLASS. (100 IN² MAX.) PROVIDE METAL GLAZING FRAME IF REQD FOR RATING.
 AT ALL OTHER DOORS WHERE A RATING IS REQD, PROVIDE FIRE GLASS IN LIEU OF INDICATED SAFETY GLASS. PROVIDE METAL GLAZING FRAME IF REQD FOR RATING.
 "V" INDICATES THAT DIMENSION VARIES WITH DOOR SIZE.
 "SG" INDICATES 6MM SAFETY GLASS.
 "FG" INDICATES FIRE GLASS.



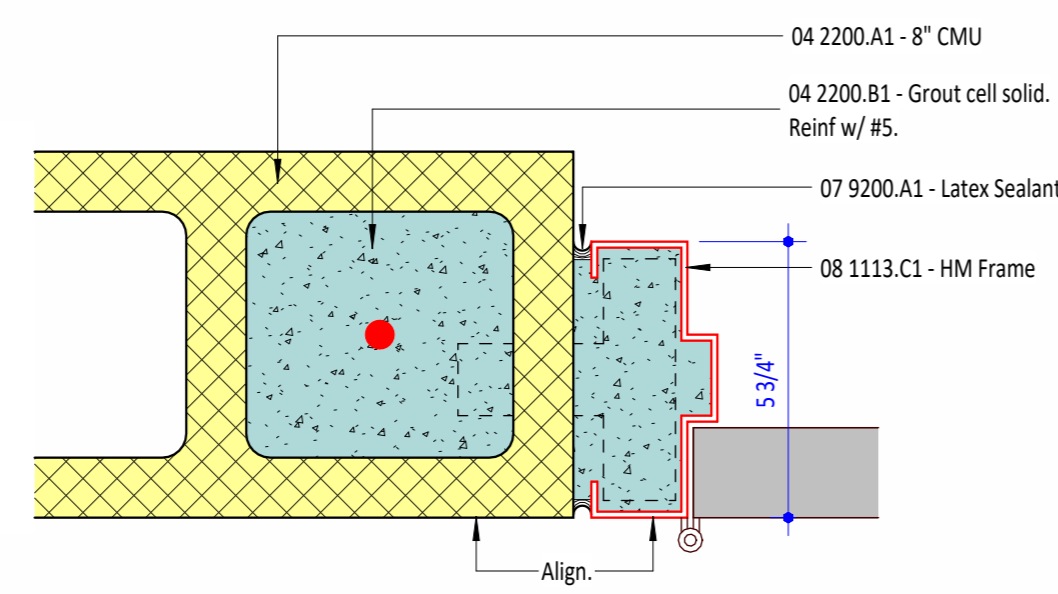
Door Types
 3/8" = 1'-0"



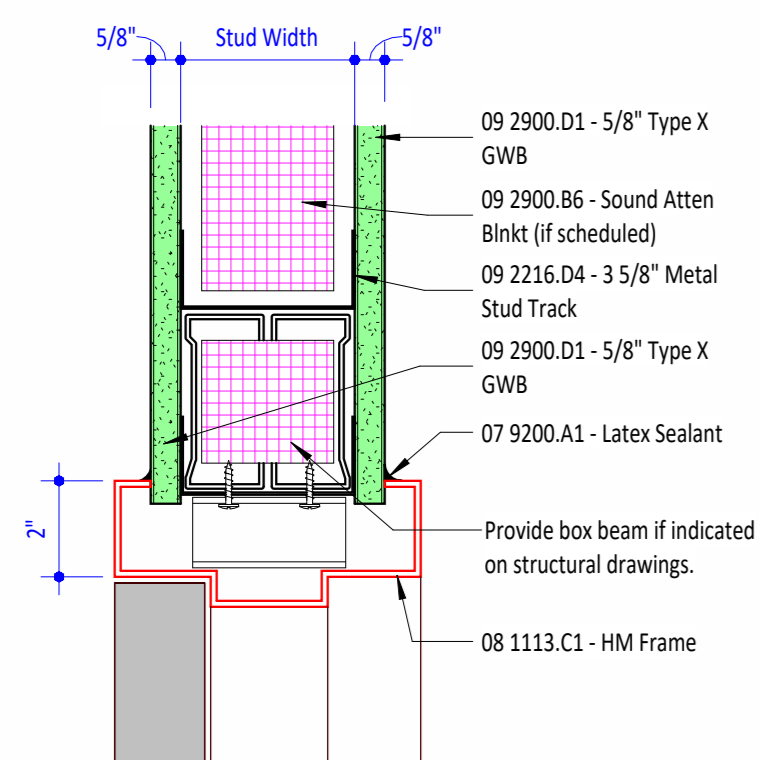
HM Frame Types
 3/8" = 1'-0"



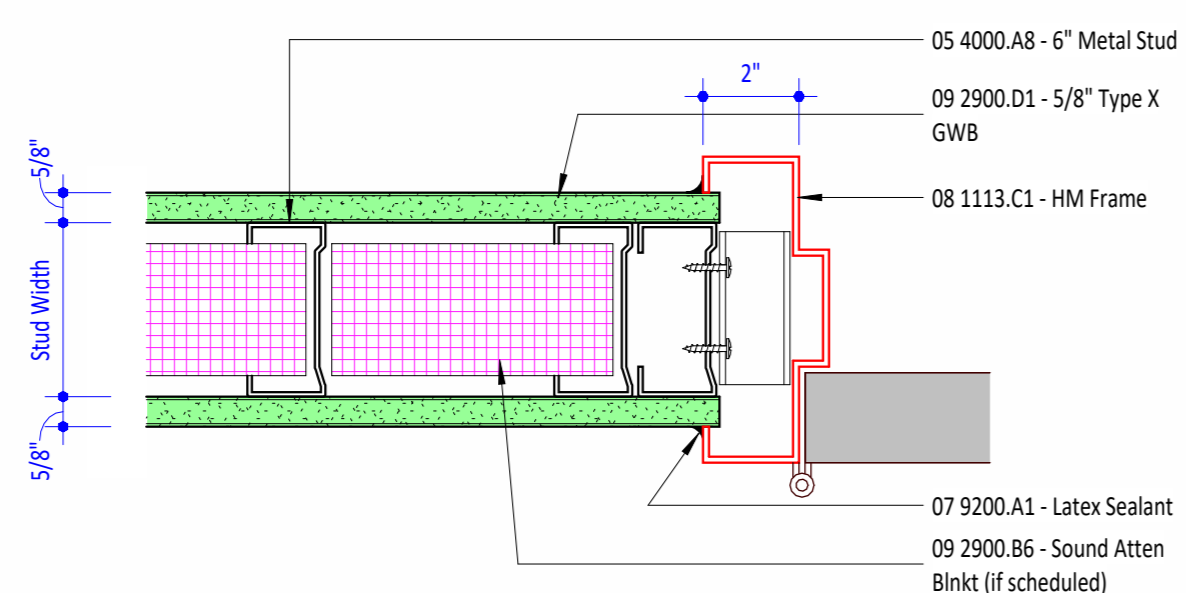
1 | Head CA - HM Door Frame (Typ at CMU)
 A201 | 3" = 1'-0"



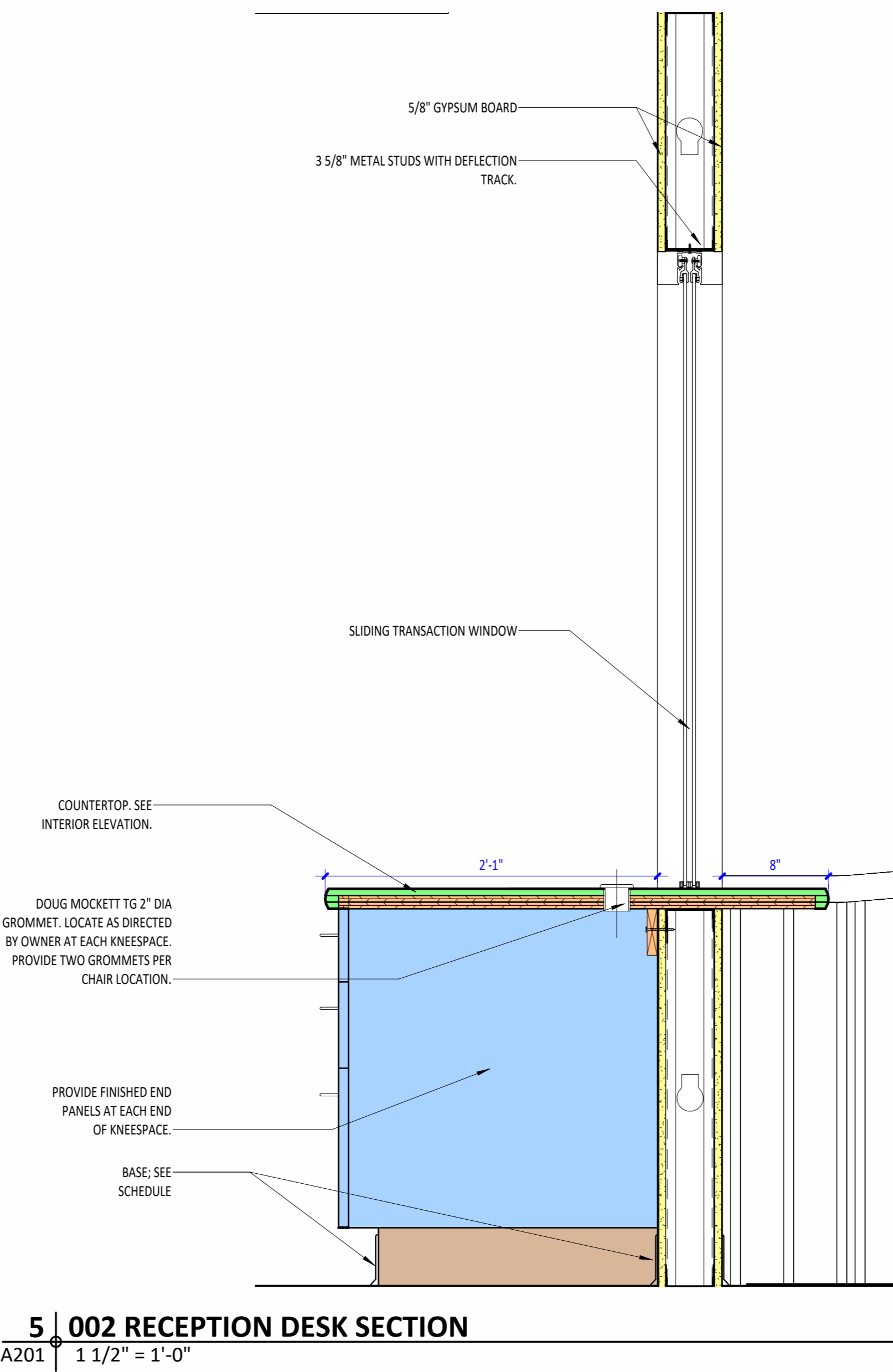
2 | Jamb CA - HM Door Frame (Typ at CMU)
 A201 | 3" = 1'-0"



3 | Head HA - HM Door Frame (Typ)
 A201 | 3" = 1'-0"



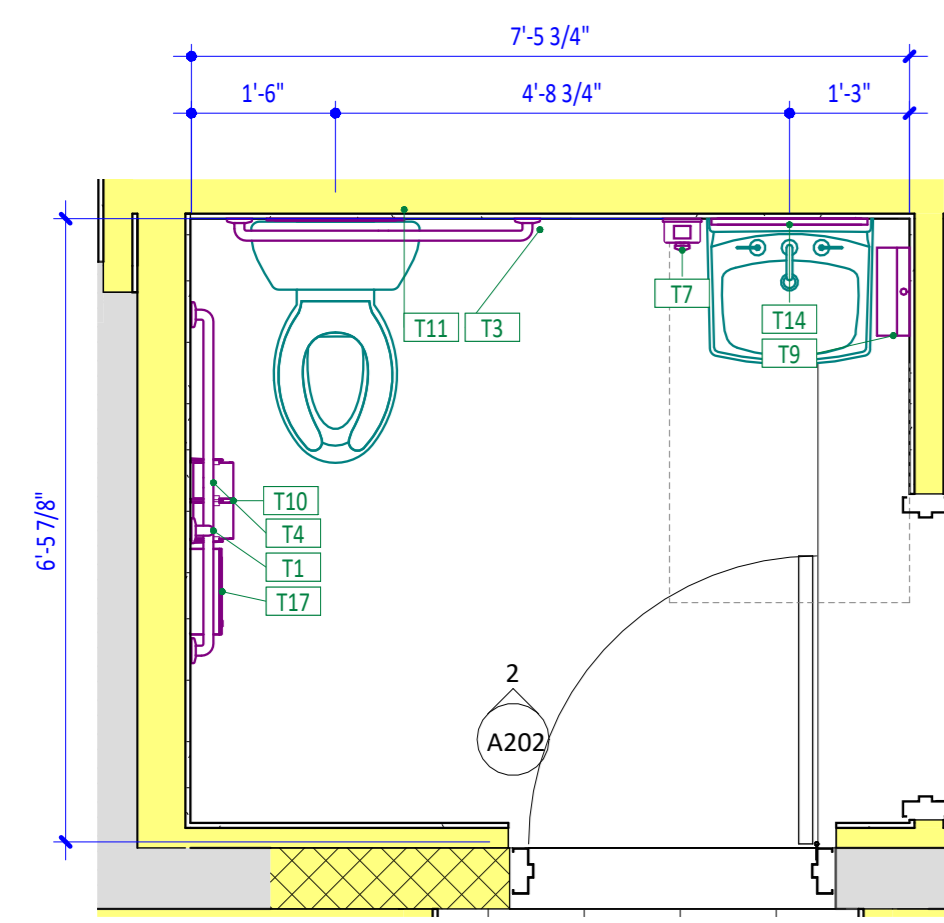
4 | Jamb JA - HM Door Frame (Typ)
 A201 | 3" = 1'-0"



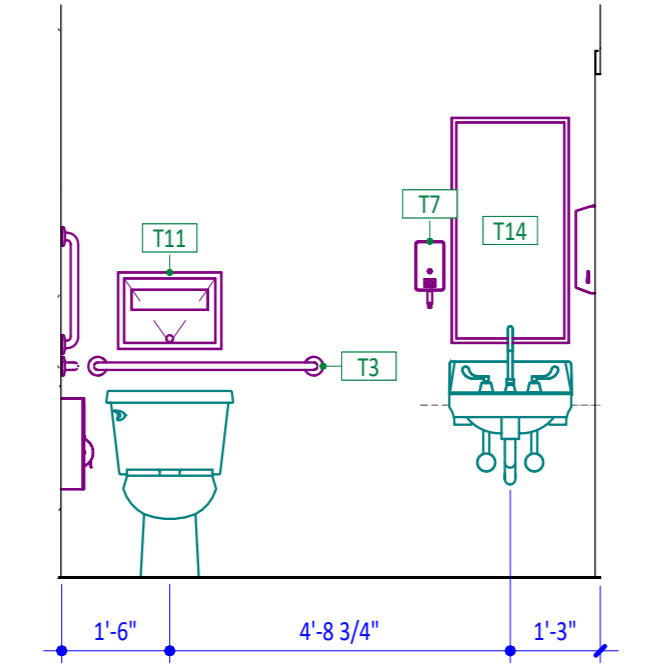
5 | 002 RECEPTION DESK SECTION
 A201 | 1 1/2" = 1'-0"

TOILET ACCESSORIES BY ROOM					
ROOM NO.	ROOM NAME	TYPE MARK	DESCRIPTION	COUNT	O.C./C.C./O.O.
002	RECEPTION / NURSE	T7	SOAP DISPENSER	1	C.C.
002	RECEPTION / NURSE	T9	PAPER TOWEL DISPENSER, SURFACE-MOUNTED.	1	C.C.
005	MEDICAL EXAM	T7	SOAP DISPENSER	1	C.C.
005	MEDICAL EXAM	T9	PAPER TOWEL DISPENSER, SURFACE-MOUNTED.	1	C.C.
006	RESTROOM	T1	18" GRAB BAR (VERTICAL)	1	C.C.
006	RESTROOM	T3	36" GRAB BAR	1	C.C.
006	RESTROOM	T4	42" GRAB BAR	1	C.C.
006	RESTROOM	T7	SOAP DISPENSER	1	C.C.
006	RESTROOM	T9	PAPER TOWEL DISPENSER, SURFACE-MOUNTED.	1	C.C.
006	RESTROOM	T10	TOILET PAPER DISPENSER.	1	C.C.
006	RESTROOM	T11	RECESSED SEAT COVER DISPENSER	1	C.C.
006	RESTROOM	T14	18 X 36-inch Mirror.	1	C.C.
006	RESTROOM	T17	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	1	C.C.
007	LAB	T7	SOAP DISPENSER	1	C.C.
007	LAB	T9	PAPER TOWEL DISPENSER, SURFACE-MOUNTED.	1	C.C.
009	BREAKROOM	T7	SOAP DISPENSER	1	C.C.
009	BREAKROOM	T9	PAPER TOWEL DISPENSER, SURFACE-MOUNTED.	1	C.C.

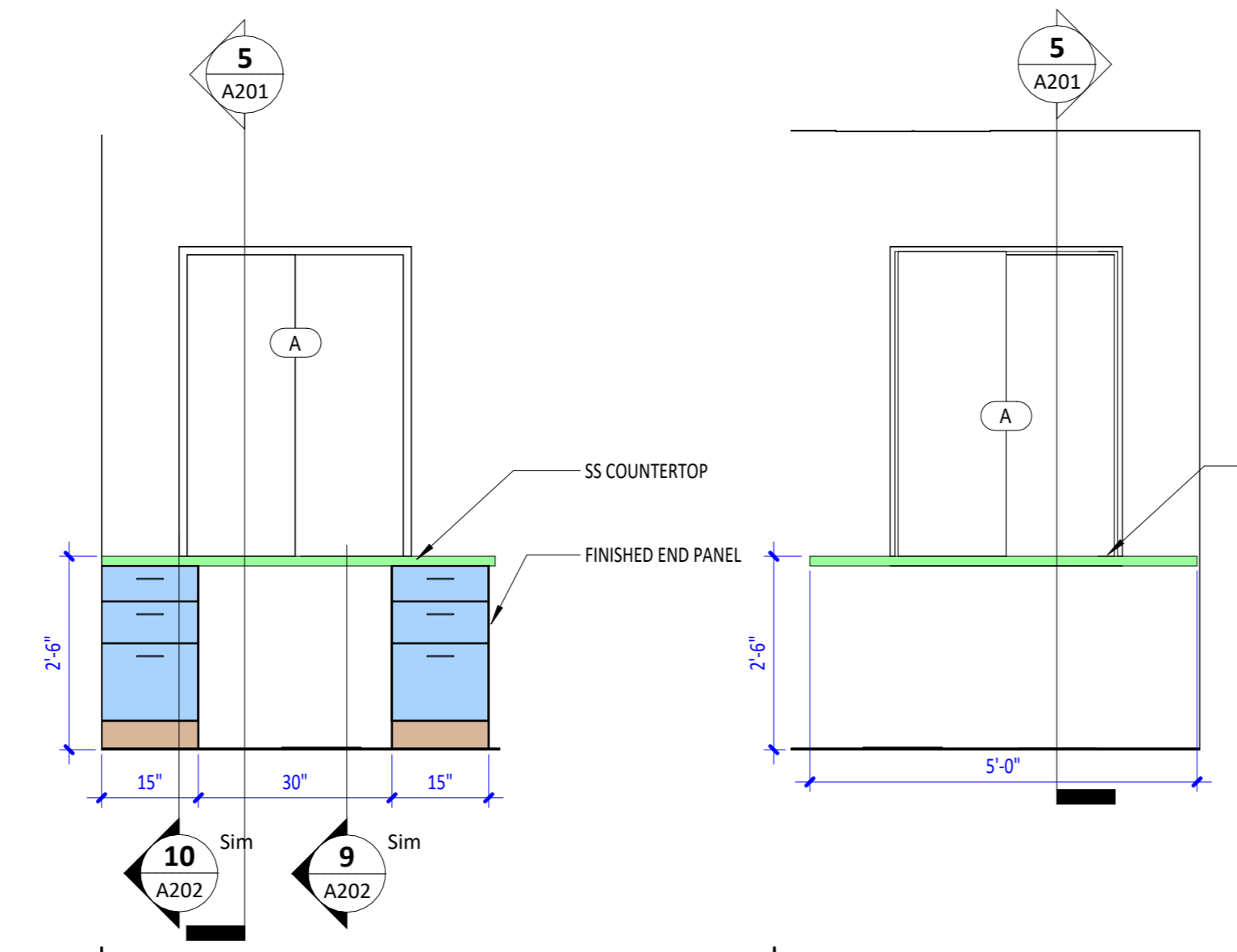
TOILET ACCESSORY SCHEDULE					
TYPE MARK	ITEM	IMAGE	DESCRIPTION	MODEL	
T1	18" GRAB BAR (VERTICAL)		1 1/4" DIAMETER, HEAVY-DUTY SATIN-FINISH STAINLESS STEEL, CONCEALED MOUNTING.	ASI 3700 SERIES, BOBRICK B-5806, BRADLEY 832.	
T3	36" GRAB BAR		1 1/4" DIAMETER, HEAVY-DUTY SATIN-FINISH STAINLESS STEEL, CONCEALED MOUNTING.	ASI 3700 SERIES, BOBRICK B-5806, BRADLEY 832.	
T4	42" GRAB BAR		1 1/4" DIAMETER, HEAVY-DUTY SATIN-FINISH STAINLESS STEEL, CONCEALED MOUNTING.	ASI 3700 SERIES, BOBRICK B-5806, BRADLEY 832.	
T7	SOAP DISPENSER		SURFACE-MOUNTED, VERTICAL, MANUAL DISPENSER.	ASI 0347, BOBRICK B-2111, BRADLEY 6562.	
T9	PAPER TOWEL DISPENSER, SURFACE-MOUNTED.		SATIN-FINISH STAINLESS STEEL, DISPENSES 400 C-FOLD OR 525 MULTI-FOLD, SURFACE MOUNTING.	ASI 0210, BOBRICK B-262, BRADLEY 250-15.	
T10	TOILET PAPER DISPENSER.		DUAL-ROLL DISPENSER, CAST ALUMINUM, NON-CONTROLLED DELIVERY.	ASI 0264-1A, BOBRICK B-2740, BRADLEY 5241-50.	
T11	RECESSED SEAT COVER DISPENSER		SATIN-FINISH STAINLESS STEEL, DISPENSES 500 TOILET SEAT COVERS.	ASI 0477, BOBRICK B-301, BRADLEY 584.	
T14	18 X 36-inch Mirror.		Mirror with channel frame.	ASI 0620 series, Bobrick B-165, Bradley 781.	
T17	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL		SATIN-FINISH STAINLESS STEEL, 1.2 GALLON PLASTIC LINER, LOCKABLE.	ASI 0473-1A, BOBRICK B-254, BRADLEY 4722-15.	



1 | 006 - RESTROOM
A202 | 1/2" = 1'-0"

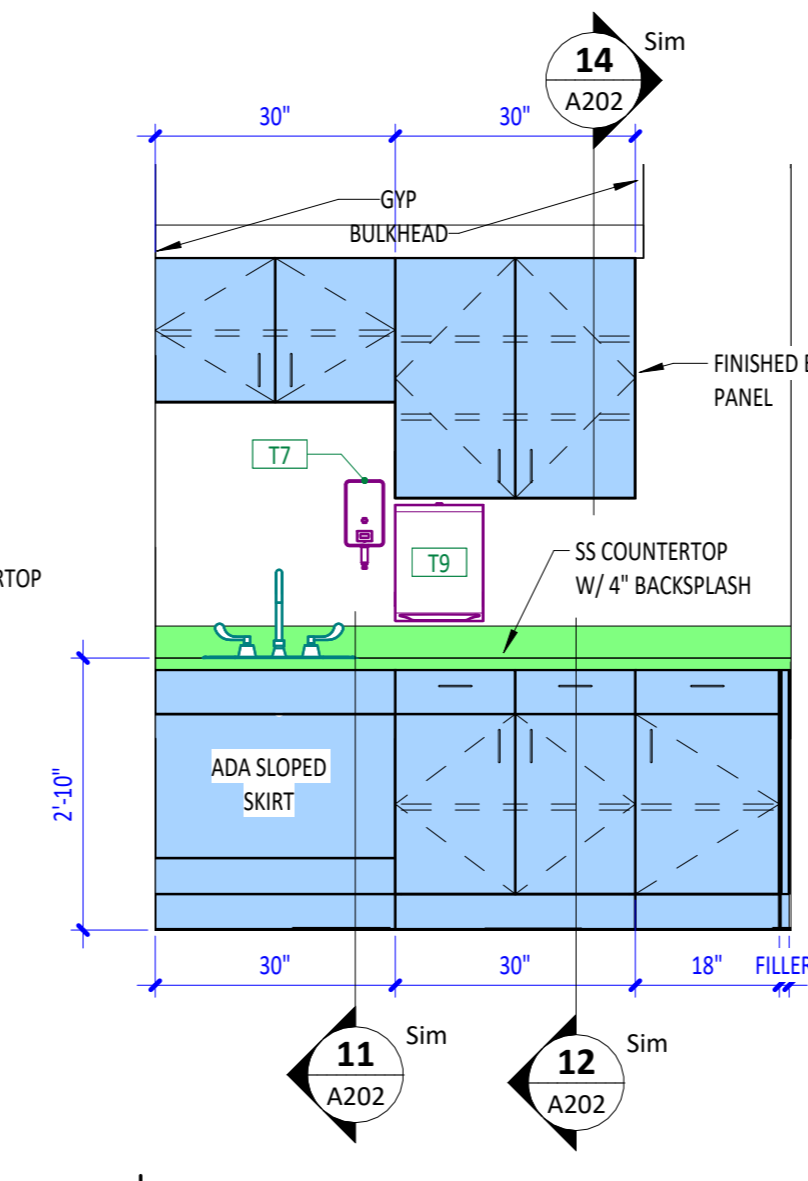


2 | 006 - RESTROOM
A202 | 3/8" = 1'-0"

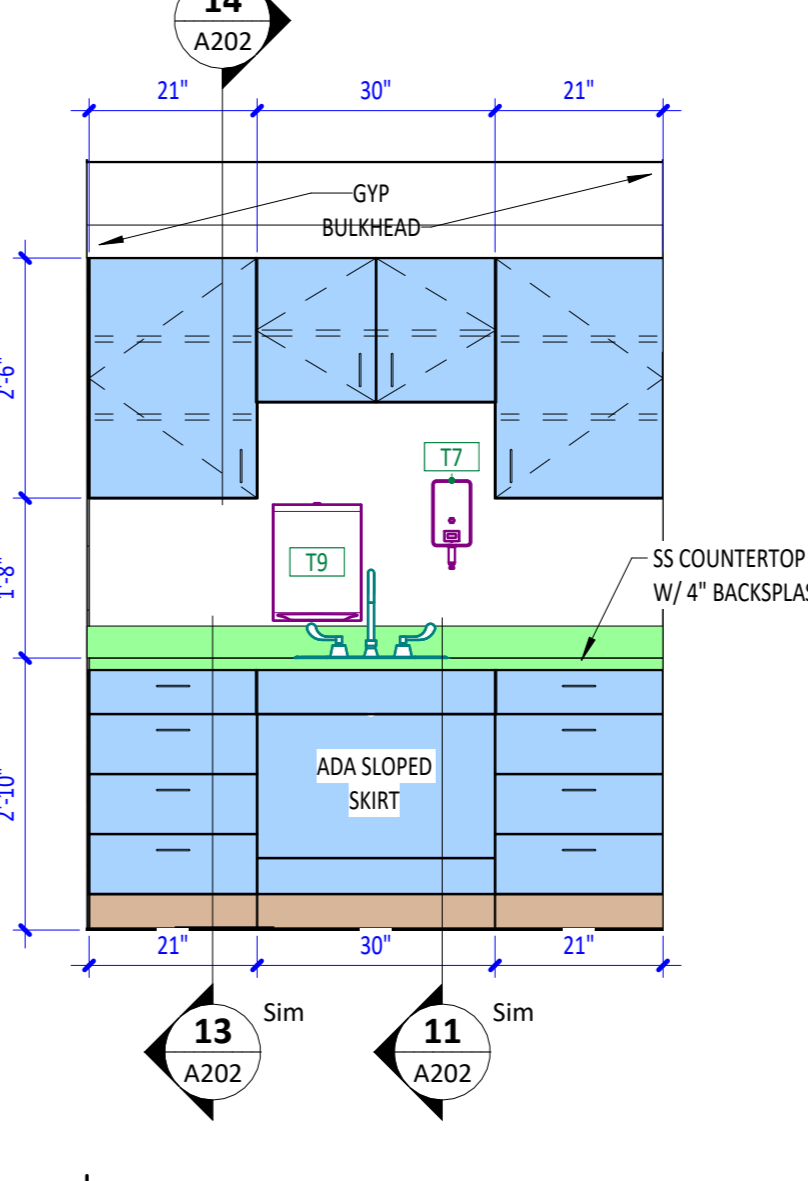


3 | 002 - RECEPTION
A202 | 1/2" = 1'-0"

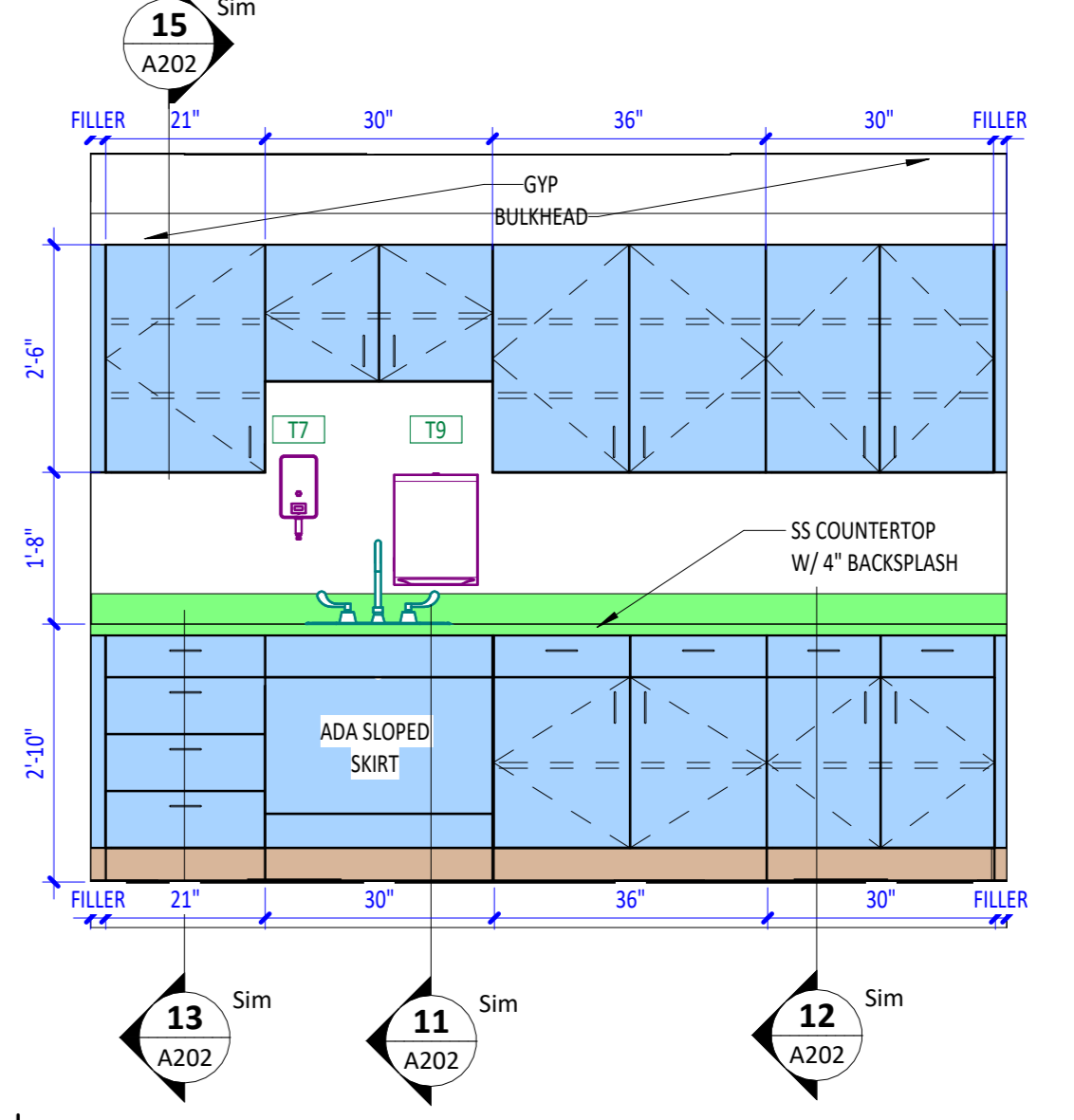
4 | 001 RECEPTION
A202 | 1/2" = 1'-0"



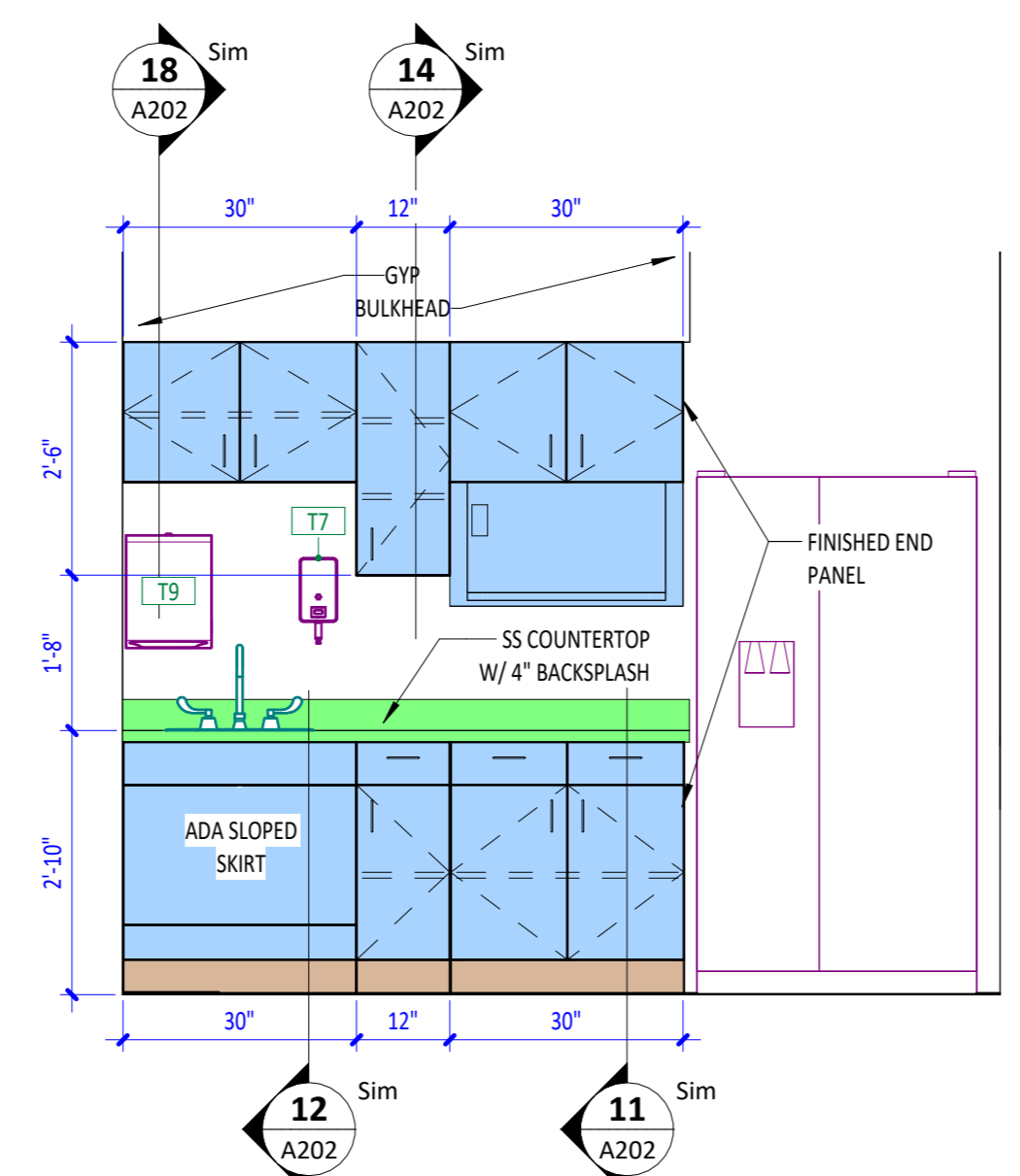
5 | 002 - NURSE
A202 | 1/2" = 1'-0"



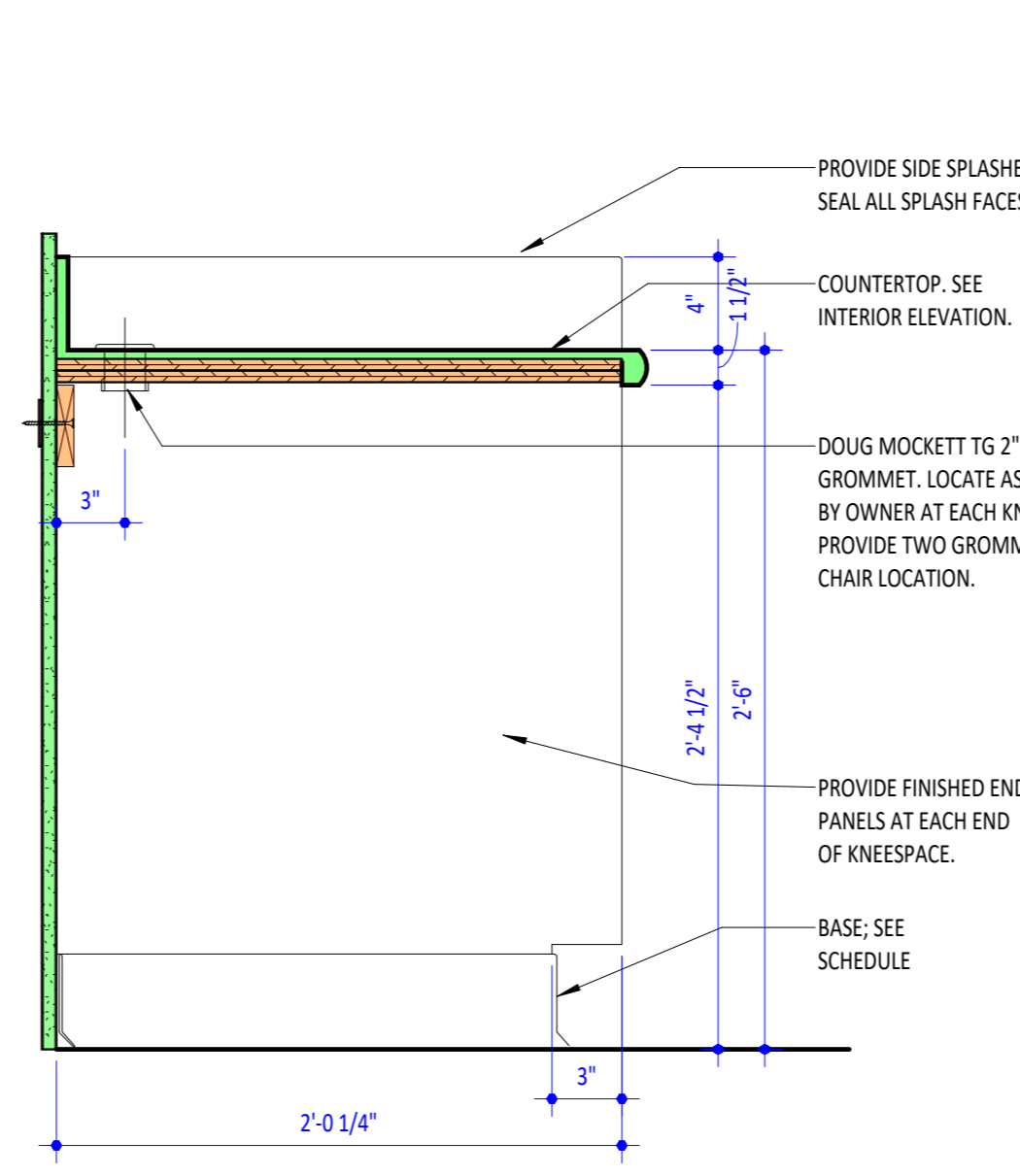
6 | 007 - LAB
A202 | 1/2" = 1'-0"



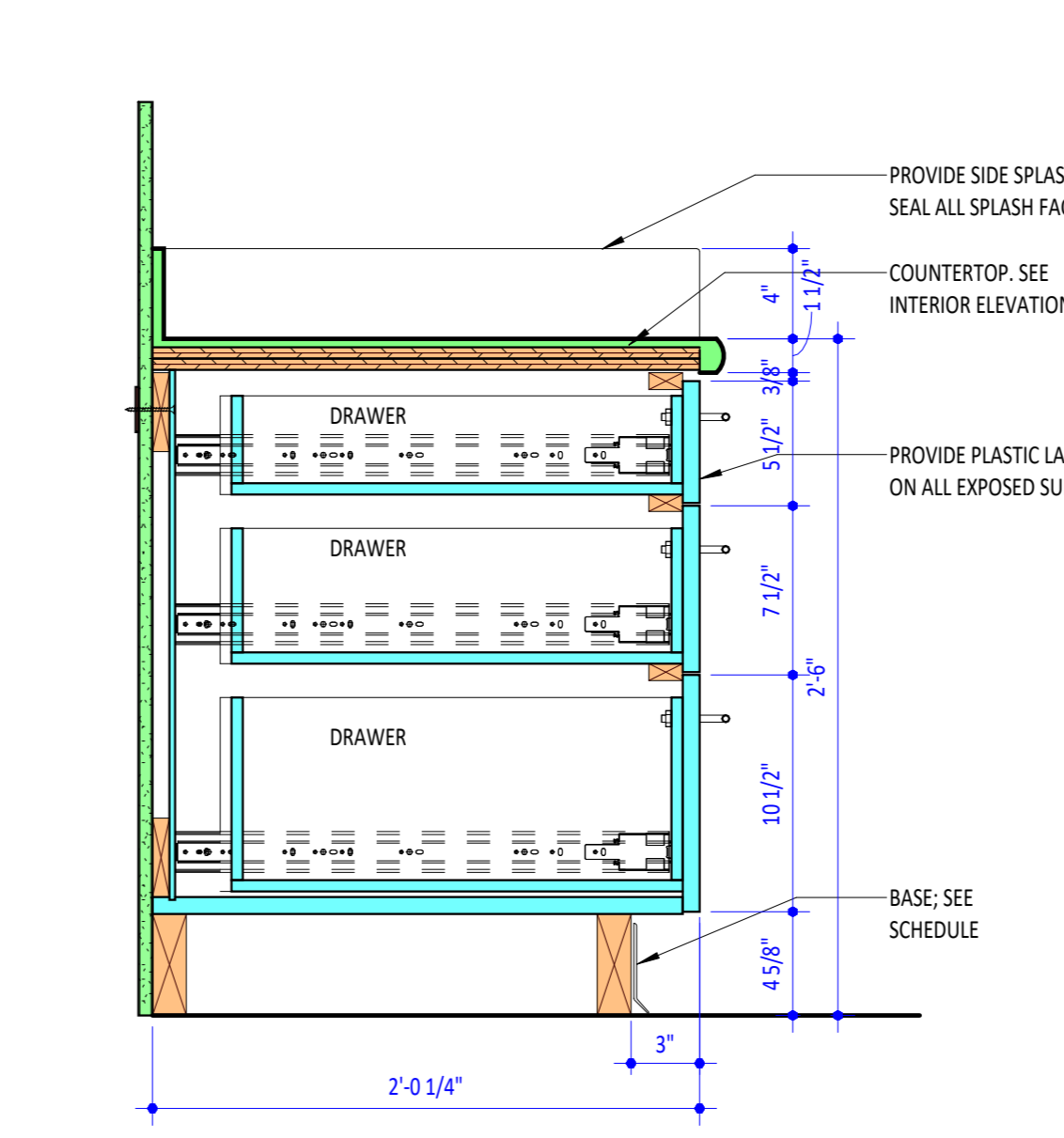
7 | 005 - MEDICAL EXAM
A202 | 1/2" = 1'-0"



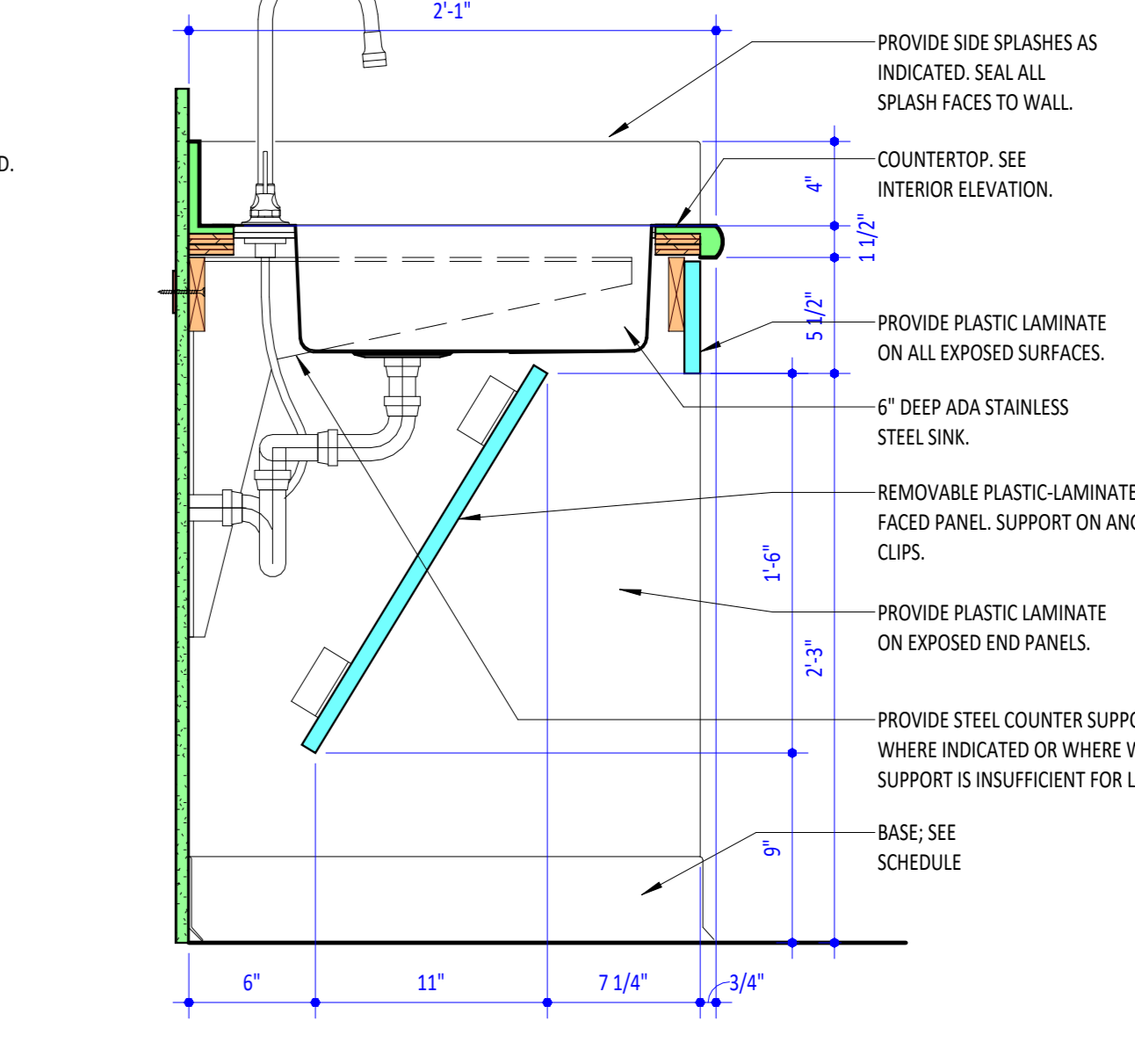
8 | 009 - BREAKROOM
A202 | 1/2" = 1'-0"



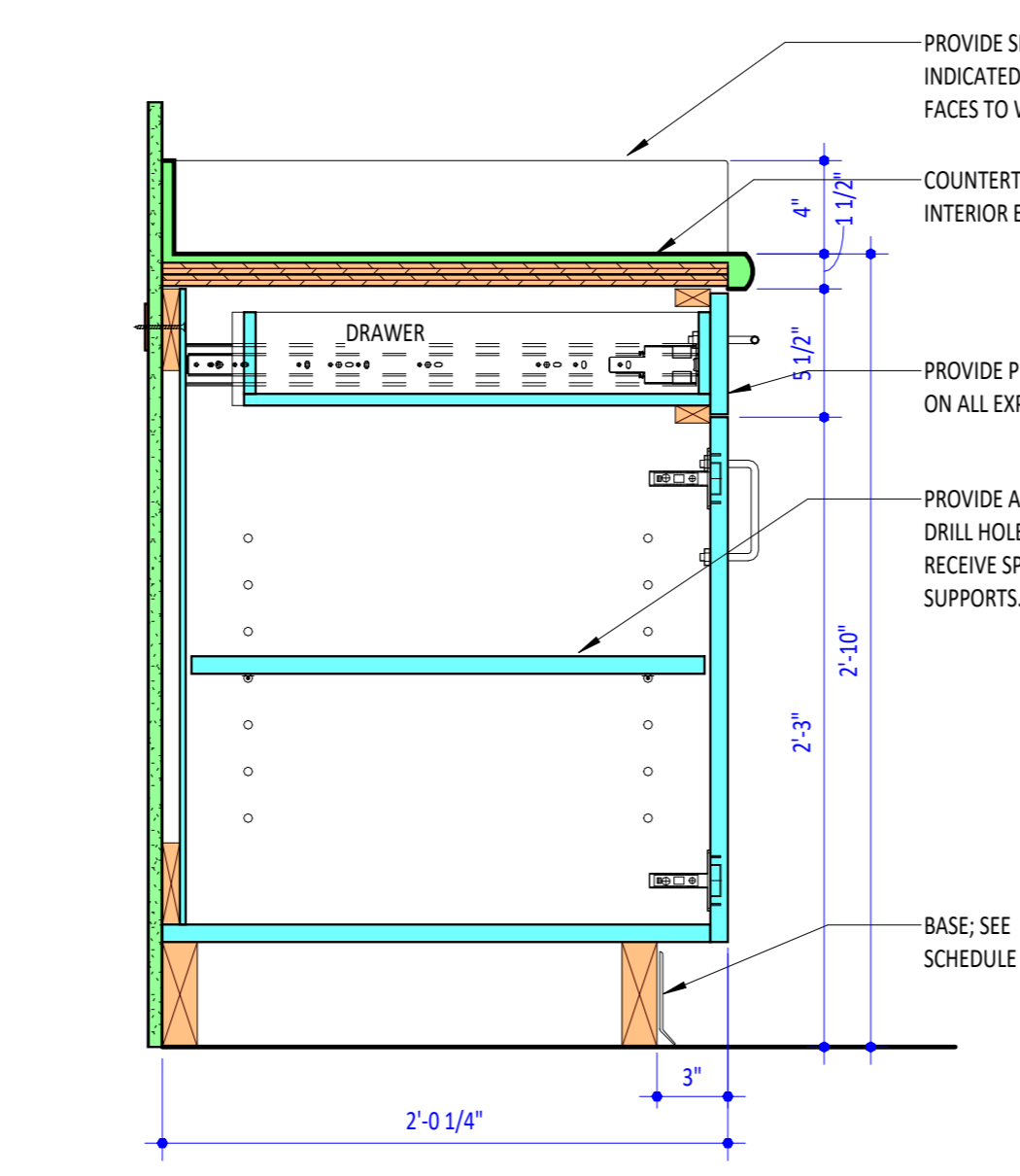
9 | 30" COUNTER WITH KNEESPACE
A202 | 1 1/2" = 1'-0"



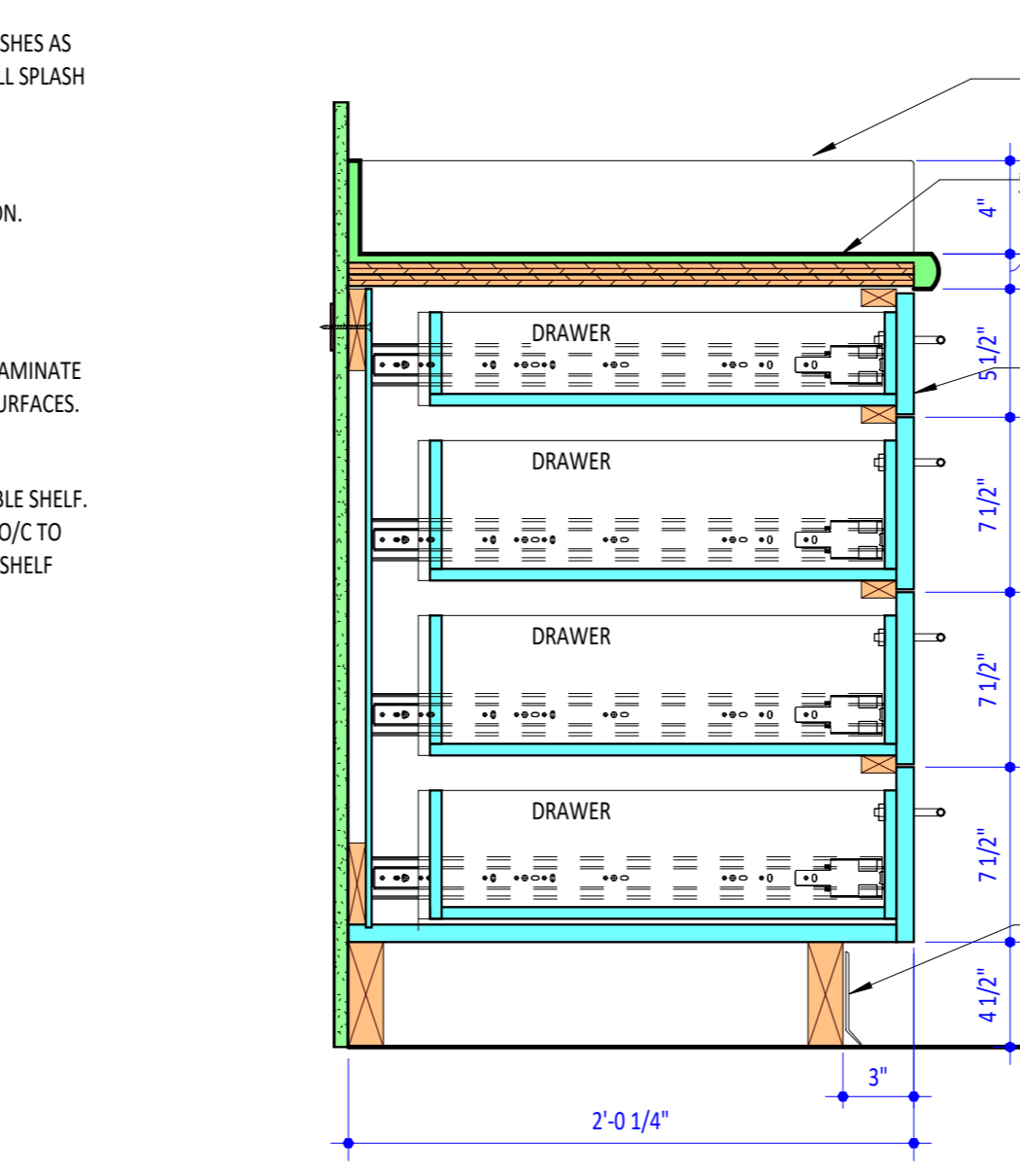
10 | 30" DRAWER BASE - 3 DRAWERS
A202 | 1 1/2" = 1'-0"



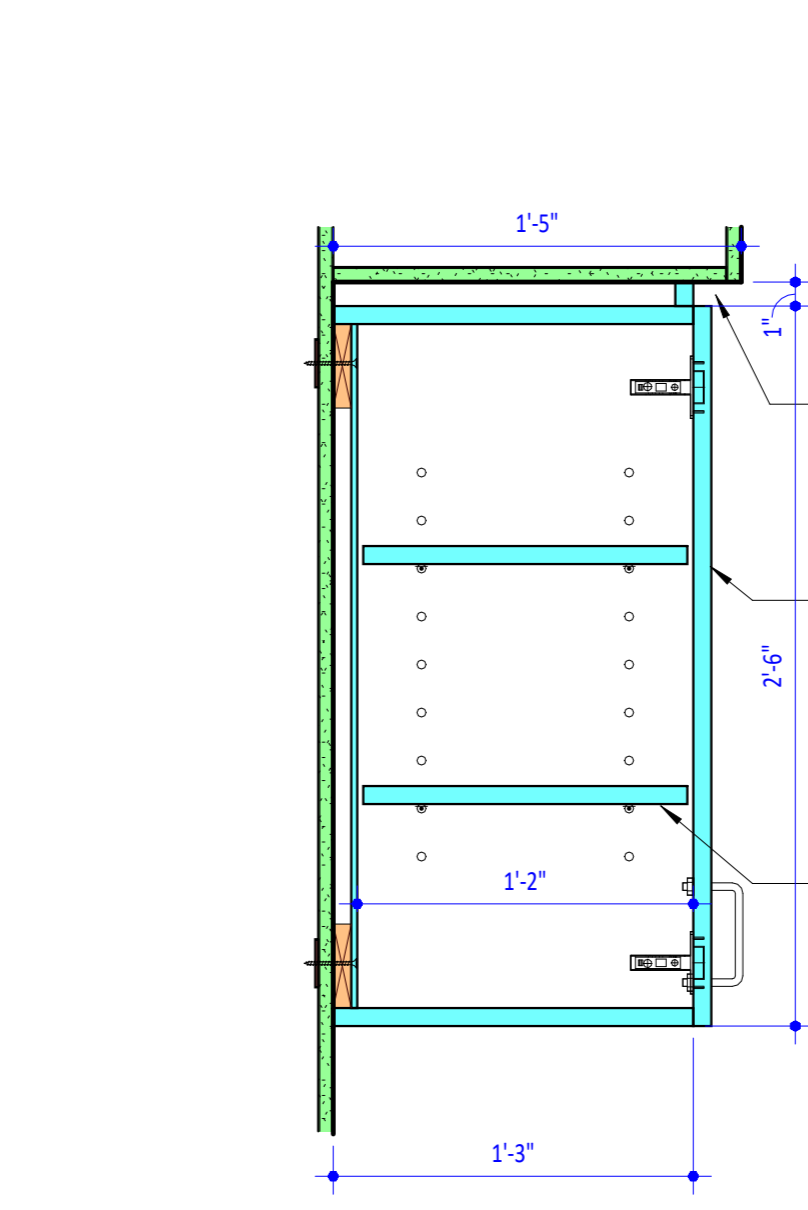
11 | 34" ADA SINK BASE, FRONT APPROACH
A202 | 1 1/2" = 1'-0"



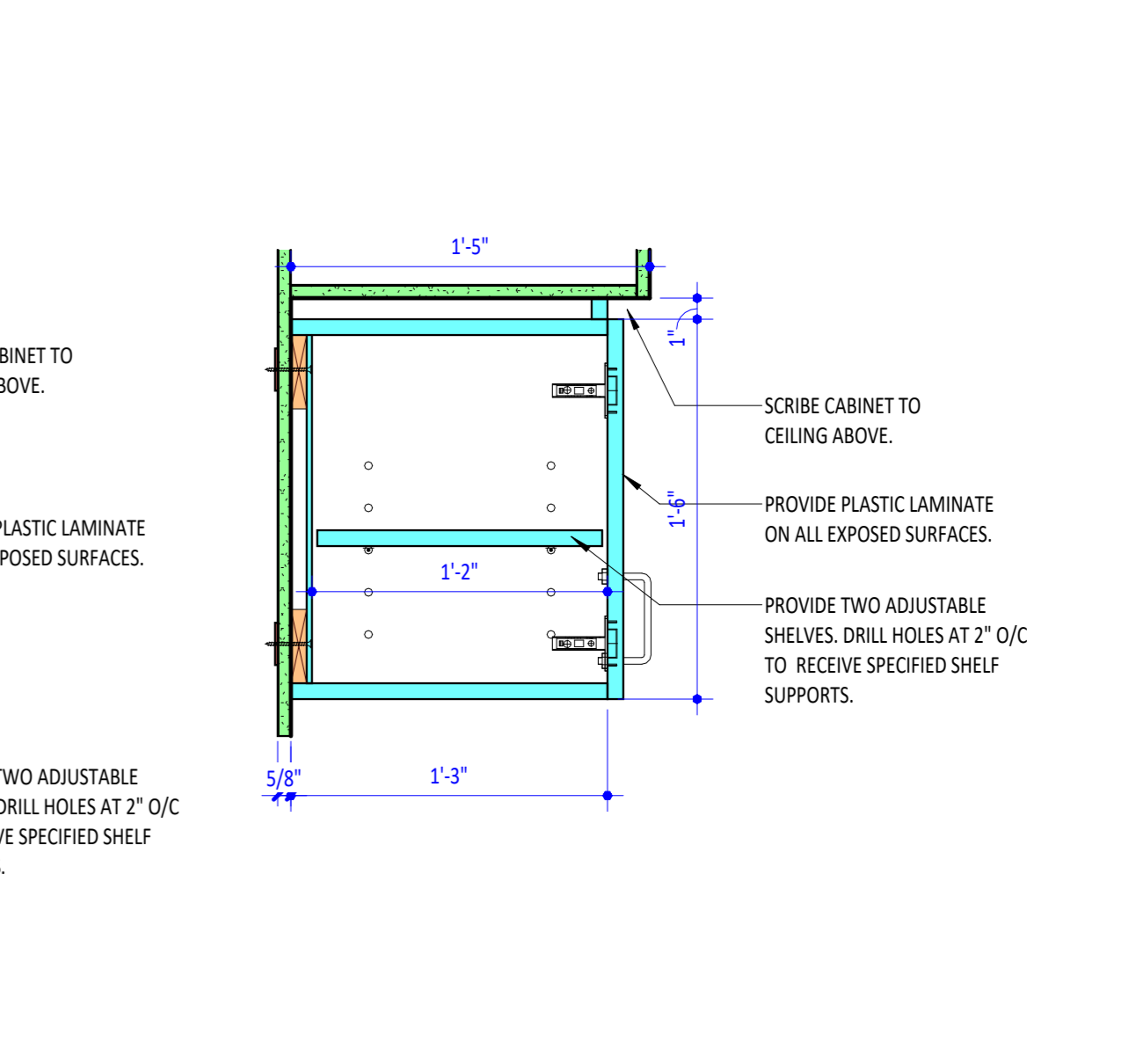
12 | 34" BASE CABINET - 1 DRAWER
A202 | 1 1/2" = 1'-0"



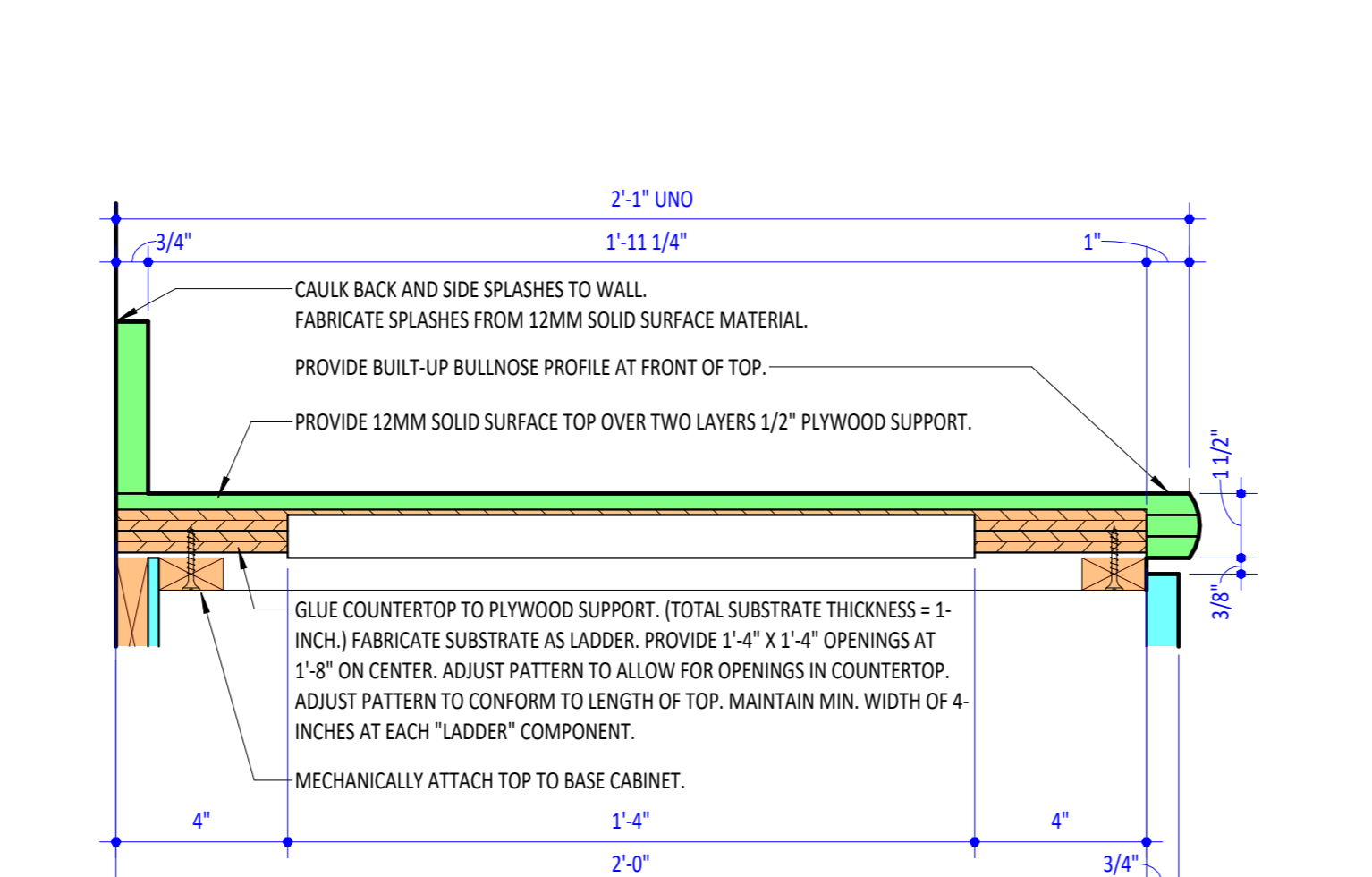
13 | 34" DRAWER BASE - 4 DRAWERS
A202 | 1 1/2" = 1'-0"



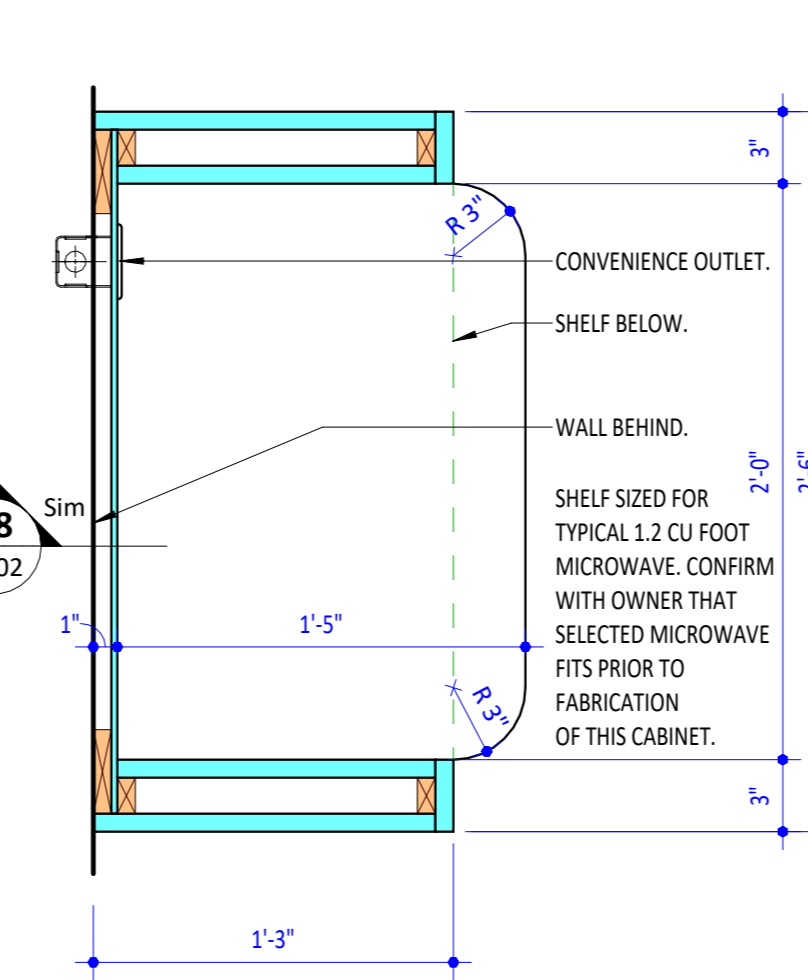
14 | 30" WALL CABINET - TYPICAL
A202 | 1 1/2" = 1'-0"



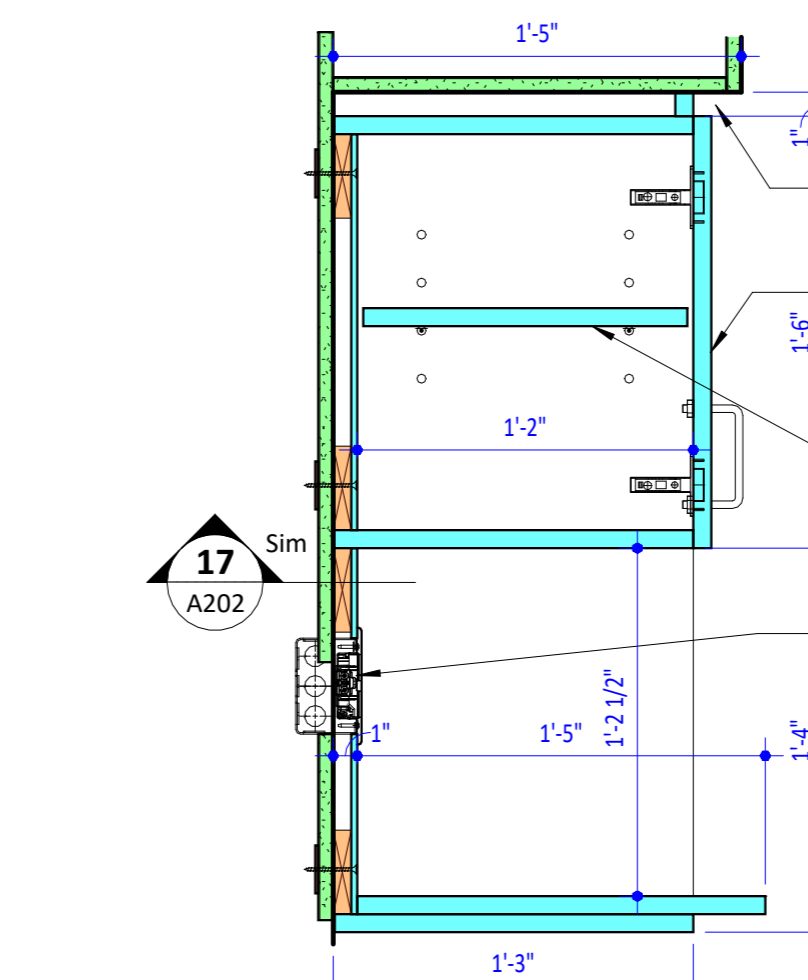
15 | 18" WALL CABINET - TYPICAL
A202 | 1 1/2" = 1'-0"



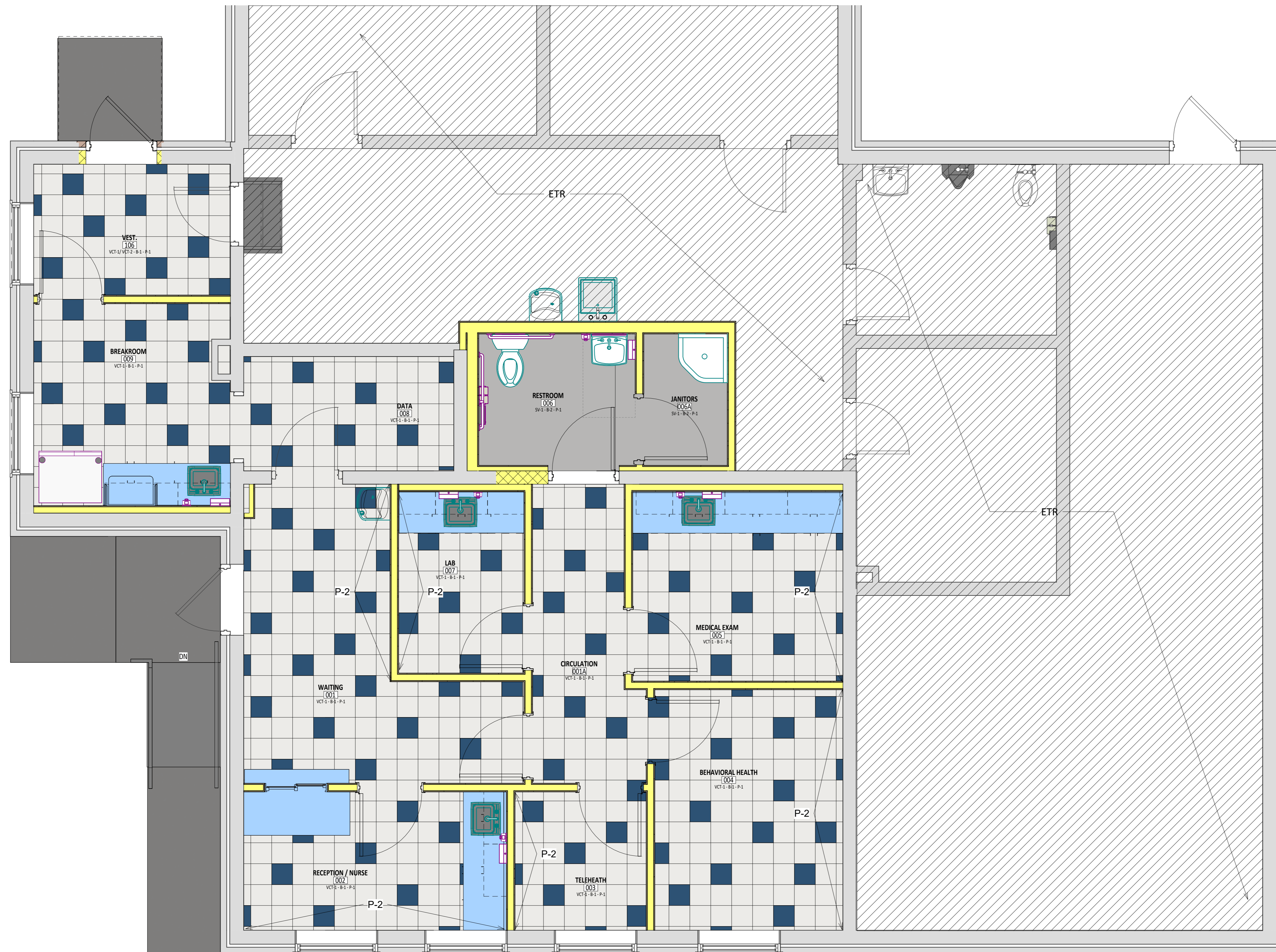
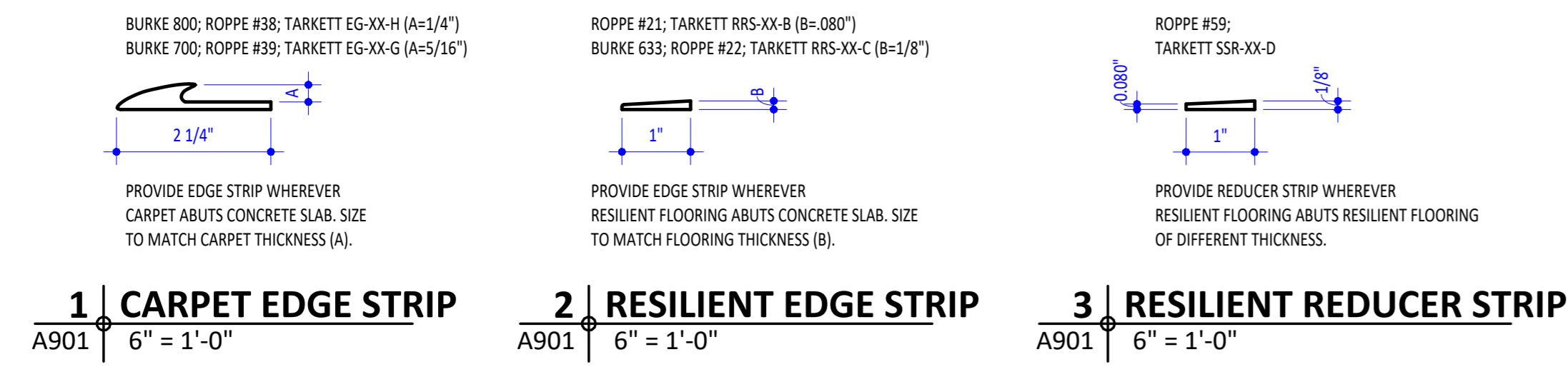
16 | COUNTERTOP - SOLID SURFACE
A202 | 3" = 1'-0"



17 | MICROWAVE SHELF
A202 | 1 1/2" = 1'-0"



18 | 34" WALL CABINET - MICROWAVE
A202 | 1 1/2" = 1'-0"



FINISHES - FLOORS

FLOOR FINISH	FLOOR TYPE	MANUFACTURER	STYLE AND COLOR	IMAGE	COMMENTS
SV-1	SHEET VINYL	MOHAWK	946 FOSSIL - HEALTHY ENVIRONMENTS COLLECTION RESILIENT SHEET MEDELLA C2848		OWNER TO SELECT FINAL COLOR
VCT-2	VCT	ARMSTRONG	FIELD - 52513 CIRQUE WHITE		OWNER TO SELECT FINAL COLOR
VCT-3	VCT	ARMSTRONG	ACCENT - 51946 GENTIAN BLUE		OWNER TO SELECT FINAL COLOR

FINISHES - WALLS

WALL FINISH	WALL TYPE FINISH	MANUFACTURER	STYLE AND COLOR	IMAGE	COMMENTS
P-1	PAINT	SHERWIN WILLIAMS	SW6147 PANDA WHITE		FIELD PAINT AND HOLLOW METAL FRAMES
P-2	PAINT	SHERWIN WILLIAMS	6227 MEDITATIVE		ACCENT WALL OWNER TO SELECT FINAL COLOR

FINISHES - BASE

BASE FINISH	BASE TYPE	MANUFACTURER	STYLE AND COLOR	IMAGE	COMMENTS
B-1	RESILIENT	ROPPE	177 STEEL BLUE		OWNER TO SELECT FINAL COLOR
B-2	RESILIENT	MOHAWK	946 FOSSIL INTEGRAL BASE		OWNER TO SELECT FINAL COLOR

FINISHES - CASEWORK

CASEWORK FINISH	CASEWORK TYPE	MANUFACTURER	STYLE AND COLOR	IMAGE	COMMENTS
PL1	LAMINATE	FORMICA	5793-NG BUFF ELM		WALL & BASE CABINET

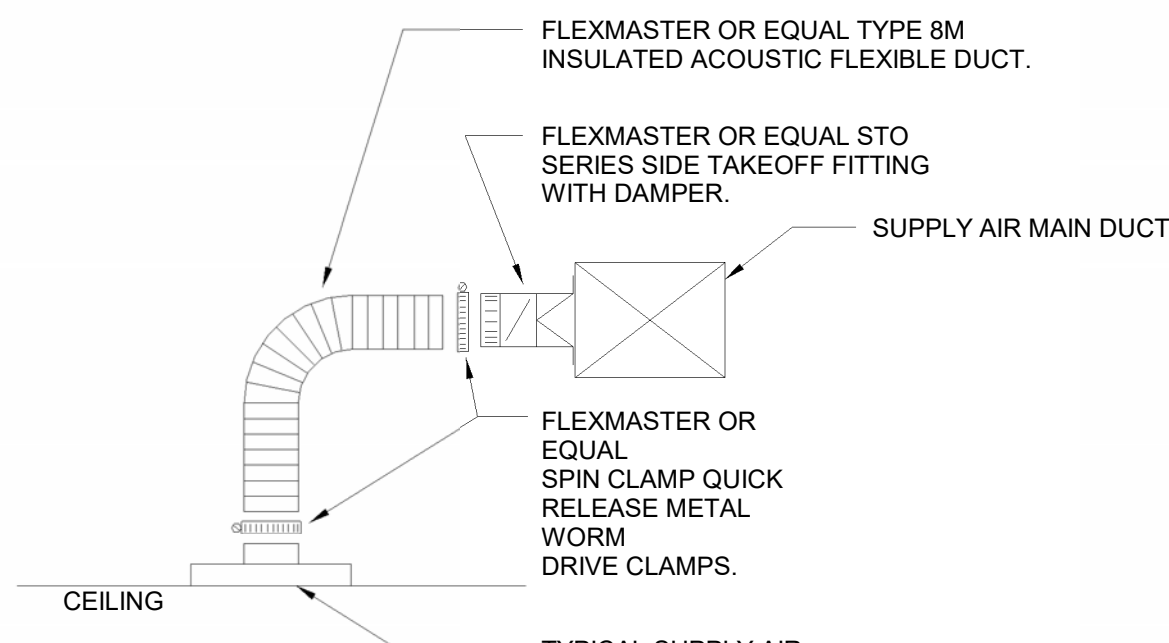
FINISHES - COUNTERTOPS

COUNTERTOP FINISH	COUNTERTOP TYPE	MANUFACTURER	STYLE AND COLOR	IMAGE	COMMENTS
PL2	LAMINATE	FORMICA	7018-58 NAVY GRAFX		

ROOM SCHEDULE

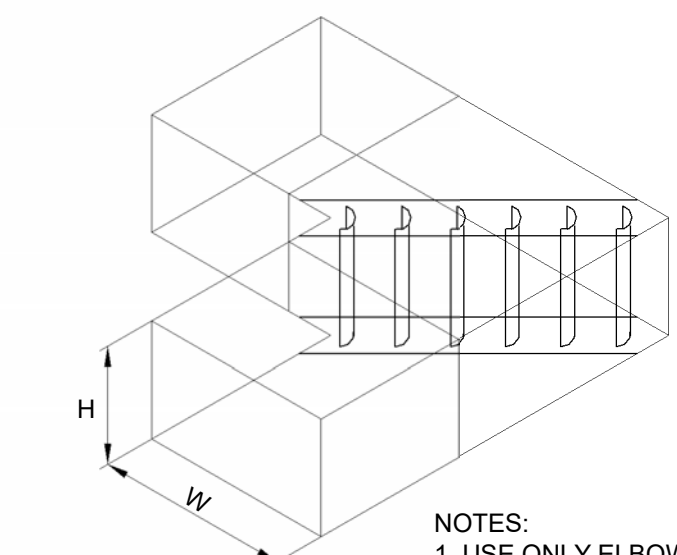
ROOM NUMBER	ROOM NAME	FLOOR FINISH		BASE FINISH	WALL FINISH	CASEWORK FINISH	COUNTERTOP FINISH	COMMENTS
		PRIMARY	SECONDARY					
001	WAITING	VCT-1	VCT-2	B-1	P-1	(none)	(none)	
001A	CIRCULATION	VCT-1	VCT-2	B-1	P-1	(none)	(none)	
002	RECEPTION / NURSE	VCT-1	VCT-2	B-1	P-1	PL1	PL2	
003	TELEHEALTH	VCT-1	VCT-2	B-1	P-1	(none)	(none)	
004	BEHAVIORAL HEALTH	VCT-1	VCT-2	B-1	P-1	(none)	(none)	
005	MEDICAL EXAM	VCT-1	VCT-2	B-1	P-1	PL1	PL2	
006	RESTROOM	SV-1		B-2	P-1	(none)	(none)	SEMI-GLOSS PAINT
006A	JANITORS	SV-1		B-2	P-1	(none)	(none)	SEMI-GLOSS PAINT
007	LAB	VCT-1	VCT-2	B-1	P-1	PL1	PL2	
008	DATA	VCT-1	VCT-2	B-1	P-1	(none)	(none)	
009	BREAKROOM	VCT-1	VCT-2	B-1	P-1	PL1	PL2	

4 LEVEL 1 FINISH PLAN
A901 3/8" = 1'-0"



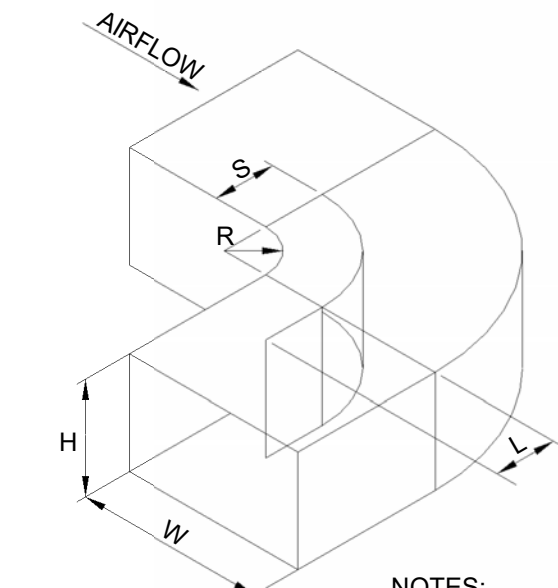
- NOTES:
1. FLEXIBLE DUCT LENGTH SHALL BE 8'-0" MAX.
 2. ALL DUCT CONNECTIONS SHALL BE MADE AND SEALED IN ACCORDANCE WITH MECHANICAL CODE AND MANUFACTURER'S INSTRUCTIONS.

1 M001 DETAIL - CEILING DIFFUSER
12" = 1'-0"



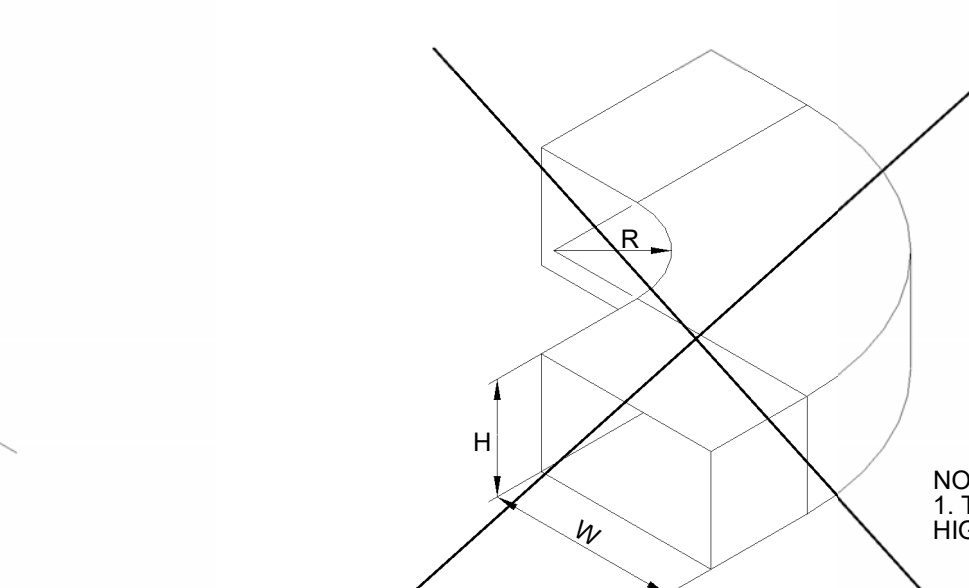
- NOTES:
1. USE ONLY ELBOW CR3-9 WITH 1.5" VANE SPACING. Co = 0.11 max

VANED ELBOW



- NOTES:
1. FAN SHALL BEAR UL LABEL.
 2. SEE FAN SCHEDULE FOR INDIVIDUAL FAN CONTROL.
 3. ALL DUCT CONNECTIONS SHALL BE MADE AND SEALED IN ACCORDANCE WITH MECHANICAL CODE AND MANUFACTURER'S INSTRUCTIONS.

2 M001 DETAIL - CEILING EXHAUST FAN
12" = 1'-0"



- NOTES:
1. USE ONLY ELBOW CR3-3 WITH ONE SPLITTER VANE. Co = 0.05 max

SMOOTH RADIUS ELBOW

STANDARD RADIUS ELBOW. THIS IS NOT ALLOWED DUE TO HIGH STATIC LOSSES IN FITTING.

3 M001 DETAIL - DUCT STANDARDS
12" = 1'-0"

SEQUENCE OF OPERATION

1. SPLIT SYSTEM AIR HANDLER: (E/AHU)

THIS EXISTING UNIT SHALL OPERATE BASED ON SIGNAL FROM THE EXISTING THERMOSTAT. THERMOSTAT SETPOINTS SHOULD BE SET INITIALLY TO THE FOLLOWING:

THERMOSTAT SETPOINTS:
COOLING: 72
HEATING: 68

THERE IS NO ECONOMIZER MODE AS THE EQUIPMENT IS BELOW THE 65,000 BTU/HR RATINGS.

2. MOTORIZED FRESH AIR DAMPER: (FAD-1)

THE FRESH AIR DAMPER SHALL BE CLOSED WHEN THE UNIT IS NOT RUNNING AND OPEN TO SET POINT WHEN THE UNIT IS RUNNING.

AIR HANDLER FAN ON = 120 CFM (10%)
AIR HANDLER FAN OFF = 0 CFM (0%)
ECONOMIZER = N/A

3. EXHAUST FANS (EF-1 & EF-2):

FANS SHALL TURN ON AND OFF WITH ASSOCIATED ROOM LIGHT CONTROL.

4. UNIT HEATERS (E/UH & UH-1):

UNITS SHALL TURN ON AND OFF BASED ON SIGNAL FROM INTEGRAL THERMOSTAT. INITIALLY SET AT 50 DEG F (ADJ).

EXISTING (RE-USED) EQUIPMENT NOTES

ALL EQUIPMENT SHOWN TO BE RE-USED IS ASSUMED TO BE IN GOOD WORKING ORDER. CES DID NOT PERFORM ANY FUNCTION OR PERFORMANCE TESTS ON ANY EXISTING EQUIPMENT DURING DESIGN. SHOULD ANY EQUIPMENT DESIGNATED TO REMAIN NEED ANY SERVICING OR REPAIR, THE MECHANICAL CONTRACTOR SHALL INFORM THE OWNER AND G.C. AND PERFORM THAT WORK AS A CHANGE ORDER OR OUTSIDE OF THIS CONTRACT.

AS-BUILT DRAWING NOTE

M.C. SHALL MAINTAIN A SET OF AS-BUILT DRAWINGS THROUGHOUT THE PROJECT AND LEAVE A PAPER COPY OF THE AS-BUILT PLANS WITH THE SCHOOL SYSTEM PROJECT MANAGER. M.C. SHALL ALSO PROVIDE A DIGITAL COPY OF THESE AS-BUILTS TO THE OWNER AND THE ENGINEER OF RECORD. THIS IS BEING REQUESTED FOR ANY FUTURE ADDITIONS OR RE-CONFIGURATIONS.

MECHANICAL SPECIFICATIONS

1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LOCAL STATE BUILDING CODE MECHANICAL, ENERGY, AND LOCAL CODES.
2. THE WORD "PROVIDE" AS USED ON THESE DRAWINGS AND IN THESE SPECIFICATIONS SHALL MEAN TO FURNISH AND INSTALL.
3. THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER TRADES PRIOR TO THE INSTALLATION OF ANY OF HIS EQUIPMENT, PIPING OR CONTROL WIRING.
4. MEASUREMENTS, BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK, THE MECHANICAL CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE SAME.
5. ALL MATERIALS USED SHALL BE NEW UNLESS OTHERWISE SHOWN OR CALLED FOR, AND SHALL BE FURNISHED IN ACCORDANCE WITH STANDARD SPECIFICATION OF THE AMERICAN SOCIETY FOR TESTING MATERIALS, THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS, ASHRAE, AND OTHER GUIDE SPECIFICATIONS.
6. THE DRAWINGS ARE DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. THE DRAWINGS INDICATE OFFSETS REQUIRED, BUT BY NO MEANS INDICATE ALL SUCH SITUATIONS.
7. RECTANGULAR & ROUND DUCTWORK SHALL BE BEST QUALITY GALVANIZED SHEET METAL BY WHEELING, OR EQUAL, AND SHALL BE FURNISHED AND INSTALLED IN STRICT ACCORDANCE WITH LATEST EDITION OF ASHRAE GUIDE AND SMACNA.
8. FLEXIBLE DUCT: GENFLEX, THERMAFLEX, WIREMOLD, OR APPROVED EQUAL, R-6 INSULATED U.L. LABELED CLASS L FLEXIBLE AIR DUCT. DUCT SHALL BE PROVIDED WITH VAPOR BARRIER, GLASS FIBER INSULATION, CONTINUOUS FULL INTERNAL LINER, AND ZINC COATED CARBON STEEL HELIX, CC FITTINGS AT EACH END FOR CONNECTION TO ROUND. CONNECT WITH METAL WORM DRIVE BANDS TO LINED SHEET METAL PLENUM ON GRILLES/DIFFUSERS.
9. CONDENSATE DRAIN PIPING IS EXISTING AND IS TO REMAIN UNCHANGED UNLESS DAMAGED.
10. INSULATION: 2" THICK FIBERGLASS INSULATION WITH FOIL WRAP EXTERIOR. NO INSULATION REQUIRED ON EXHAUST DUCTS.
11. MAINTAIN ALL FIRE RATINGS WHERE APPLICABLE. SUBMIT UL ASSEMBLY TO LOCAL FIRE MARSHAL FOR APPROVAL.
12. DO NOT SCALE THESE DRAWINGS.
13. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE. ALL SERVICE CLEARANCES AS SHOWN IN THE MANUFACTURER'S INSTRUCTIONS MUST BE MAINTAINED.
14. THE MECHANICAL CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF ALL BUILDING PENETRATIONS.
15. MECHANICAL CONTRACTOR SHALL TEST AND BALANCE ALL SYSTEMS TO COMPLY WITH PLANS.

MECHANICAL LEGEND

AHU	-	SPLIT SYSTEM AIR HANDLER
EF	-	EXHAUST FAN
FAD	-	FRESH AIR DAMPER
FAH	-	FRESH AIR HOOD
SA	-	SUPPLY AIR
RA	-	RETURN AIR
EA	-	EXHAUST AIR (GENERAL)
OA	-	OUTSIDE AIR
SA-E	-	EXISTING SUPPLY AIR
RA-E	-	EXISTING RETURN AIR
EA-E	-	EXISTING EXHAUST AIR
CFM	-	CUBIC FEET PER MINUTE
12x12	-	RECTANGULAR DUCT NOTATION
12Ø	-	ROUND DUCT NOTATION
(E)	-	EXISTING ITEM
(R)	-	RELOCATED ITEM
MC	-	MECHANICAL CONTRACTOR
EC	-	ELECTRICAL CONTRACTOR
PC	-	PLUMBING CONTRACTOR
GC	-	GENERAL CONTRACTOR
T	-	THERMOSTAT
ⓧ	-	POINT OF CONNECTION TO EXISTING ITEM BEING DEMOLISHED/REMOVED

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE:
Prescriptive Energy Cost Budget

Climate Zone	4A
Exterior design conditions	(ROANOKE MUNICIPAL VA, USA)
winter dry bulb	19.6°F
summer dry bulb	92.3°F
summer wet bulb	72.8°F
Interior design conditions	
winter dry bulb	72°F
summer dry bulb	75°F
relative humidity	50%

Building heating load	32.1 MBH
Building cooling load	35.4 MBH

Mechanical Spacing Conditioning System

Unitary	
description of unit	
heating efficiency	
cooling efficiency	SEE EQUIPMENT SCHEDULES
heat output of unit	
cooling output of unit	
Boiler	
total boiler output, If oversized, state reason.	N/A
Chiller	
total chiller capacity, If oversized, state reason.	N/A

List equipment efficiencies Refer to drawings and specifications.

Equipment schedules with motors (mechanical systems)

description of unit	
motor power	SEE EQUIPMENT SCHEDULES
number of phases	

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the International Building code, Volume X-Energy.

SIGNED: Christopher R. Stroupe
NAME: Christopher R. Stroupe, PE
TITLE: Engineer

PLUMBING • MECHANICAL • ELECTRICAL
Phone: 336.724.0139
1111 S. Marshall Street, Suite 250
Winston Salem, NC 27101

These drawings, created by Consultant Engineering Service, are intended to be viewed and printed in color. Color is used to distinguish between different systems and to provide drawing clarity.

CES LICENSE NUMBER (NC)	F-0238
CES LICENSE NUMBER (VA)	11059277
PROJECT NO.	4625
DRAWN	DMG
APPROVED	CRS



RENOVATIONS TO

TACH Floyd Elementary

531 OAK HILL DR SW
FLOYD, VA 24091

Outside Air (Ventilation) Calculations

Category	Occupancy	403.3 CFM/PP	403.3 CFM/SF	403.3 PPL/1000SF	Project Specific Room Number	Design Area SF	Design No. of People	Adjusted number of People	Design CFM for People	Design CFM for Area	Total OA Required
Offices	Office Spaces	5	0.06	5	Breakroom 009	89	0.4	1.0	5.0	5.3	10.3
Workrooms	Computer (without Printing)	5	0.06	4	Data 008	55	0.2	0.0	0.0	3.3	3.3
Offices	Office Spaces	5	0.06	5	Waiting 001	129	0.6	2.0	10.0	7.7	17.7
Offices	Office Spaces	5	0.06	5	Reception/nurse 002	83	0.4	2.0	10.0	5.0	15.0
Offices	Office Spaces	5	0.06	5	Telehealth 003	42	0.2	1.0	5.0	2.5	7.5
Offices	Office Spaces	5	0.06	5	Lab 007	57	0.3	2.0	10.0	3.4	13.4
Hospitals-Nursing Homes	Medical Procedure Rooms	15	0	20	Medical Exam 005	93	1.9	2.0	30.0	0.0	30.0
Public Spaces	Corridors	0	0.06	0	Circulation 001A	68	0.0	2.0	0.0	4.1	4.1
Offices	Office Spaces	5	0.06	5	Behavioral Health 004	104	0.5	2.0	10.0	6.2	16.2
Required Outside Air											117.6
Outside Air Provided via motorized damper on Air Handler											120

1. Adjusted number of people based on Owner Provided input.
2. The existing Air handler has been equipped with a fresh air damper and duct.

EXHAUST FAN SCHEDULE

PLAN TAG	MANUFACTURER	MODEL	TYPE	CFM	ESP	POWER	VOLTAGE	CONTROL	REMARKS
EF-1	LOREN COOK	GC-146	CEILING	70	0.25	26 W	115/1	WITH LIGHT	1,2,3
EF-2	LOREN COOK	GC-146	CEILING	50	0.25	26 W	115/1	WITH LIGHT	1,2,3

1. DUCT COLLAR
2. BACKDRAFT DAMPER
3. STANDARD GRILLE

FRESH AIR INTAKE HOOD SCHEDULE

PLAN ID	MANUFACTURER	MODEL	TYPE	LOCATION	MAX AIRFLOW	SERVES	INLET SIZE	REMARKS
FAH-1	FAMCO	SWV8P	INTAKE	SIDEWALL	120	(E/AHU)	8"	1,2

1. INLET SCREEN
2. BLACK FINISH

MOTORIZED (FRESH AIR) DAMPER SCHEDULE

PLAN ID	MANUFACTURER	MODEL	TYPE	AIRFLOW SETPOINT (MIN TO MAX)	CONTROL NOTES	ASSOCIATED UNIT	REMARKS
FAD-1	FAMCO	ADC824	2- POSITION	0 to120	OPEN WITH AHU FAN ON	(E/AHU)	1,2

1. 24V MOTORIZED ACTUATOR
2. NORMALLY CLOSED, POWER OPEN.

ELECTRIC UNIT HEATER SCHEDULE

PLAN ID	MANUFACTURER	MODEL	KW	VOLTAGE	AMPS	CONTROL	SETPPOINT	REMARKS
UH-1	MARKEL	HF3316T2SRPW	3.0	208/1	14.4	BUILT IN	50 F	1,3,4

1. HEATER SHALL BE CONTROLLED BY A BUILT IN DOUBLE POLE THERMOSTAT
2. SURFACE MOUNTING BOX
3. WHITE FINISH

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN ID	MANUF	MODEL	SERVICE	FACE	NECK	MOUNTING	MATERIAL	FINISH COLOR	REMARKS
S1	TITUS	TMS-AA	SUPPLY	24x24	6"	LAY-IN	ALUMINUM	WHITE	1,2,3
S2	TITUS	TMS-AA	SUPPLY	24x24	8"	LAY-IN	ALUMINUM	WHITE	1,2,3
S3	TITUS	TMS-AA	SUPPLY	12x12	4"	LAY-IN	ALUMINUM	WHITE	1,2,3
R1	TITUS	PAR-AA	RETURN	24x24	6"	LAY-IN	ALUMINUM	WHITE	1,2,3
R2	TITUS	PAR-AA	RETURN	24x24	8"	LAY-IN	ALUMINUM	WHITE	1,2,3

1. WHITE POWDERCOAT FINISH
2. OPOSED BLADE DAMPER IN NECK (TITUS D-75)
3. INSULATED BACK PAN

NOTE: THESE DIFFUSERS MATCH THE TRI-AREA COMMUNITY HEALTH STANDARDS. NO SUBSTITUTIONS UNLESS OWNER APPROVED

MODEL	IMAGE
TMS-AA	
PAR-AA	

MECHANICAL SHEET INDEX

M001	MECHANICAL COVER SHEET
M101	MECHANICAL PLANS

MECHANICAL COVER SHEET

DRAWING NO.
M001

REVISIONS	Revision Number	DESCRIPTION
DATE		

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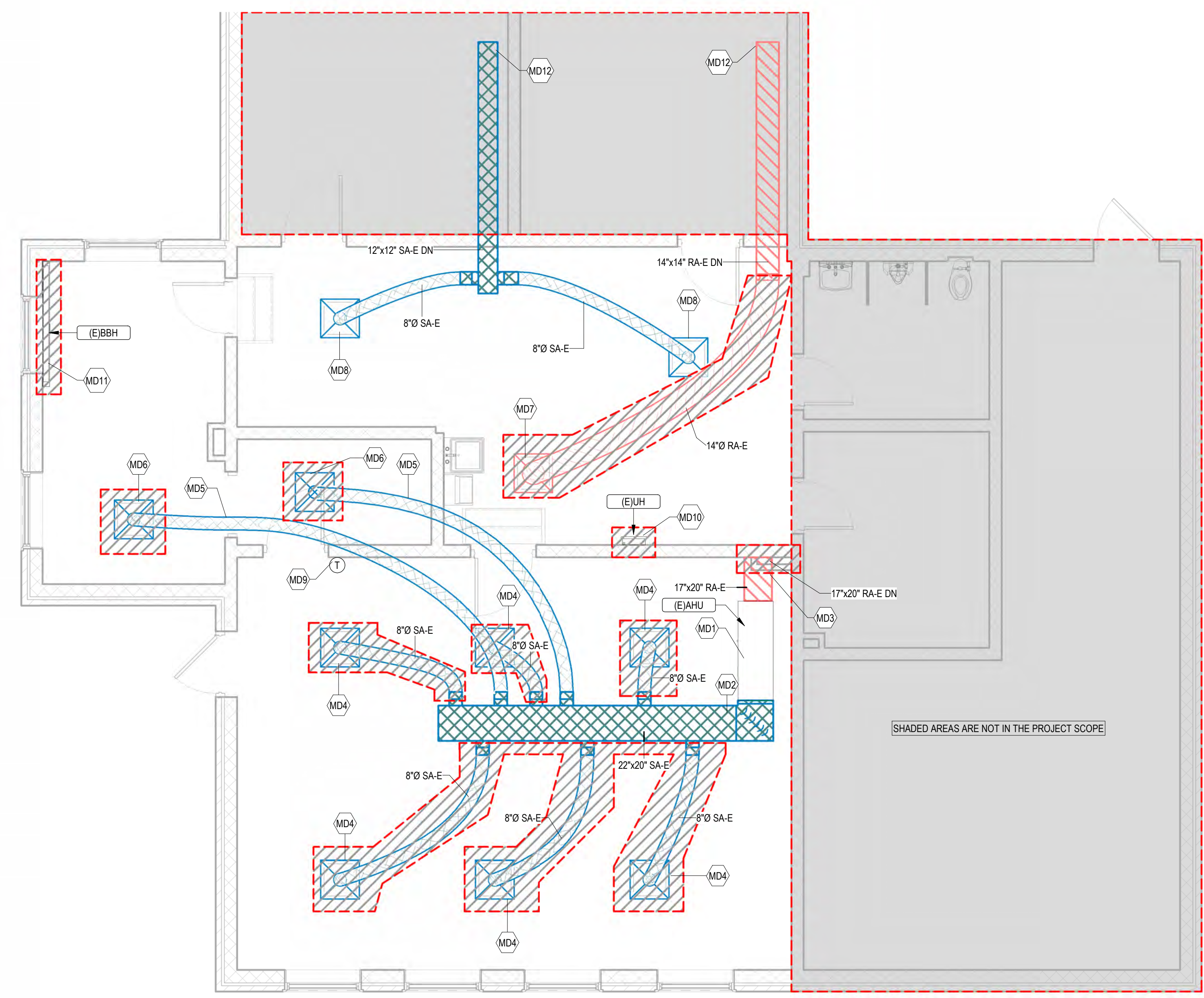
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CONSTRUCTION DOCUMENTS

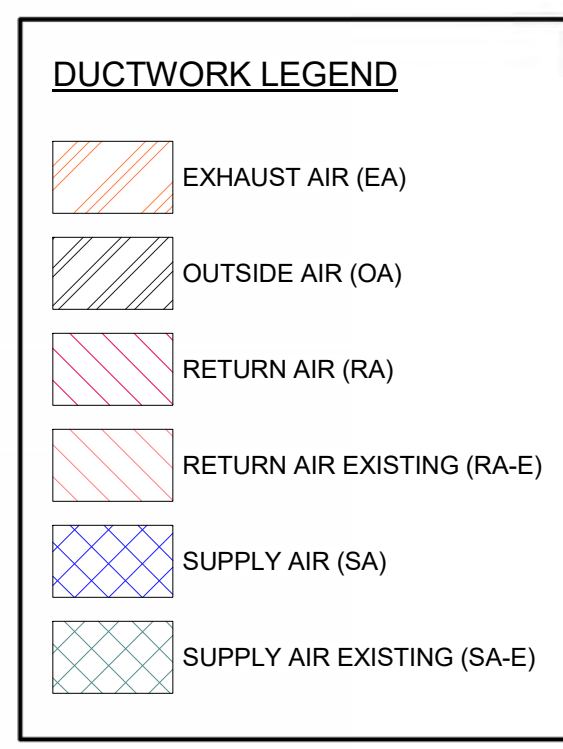
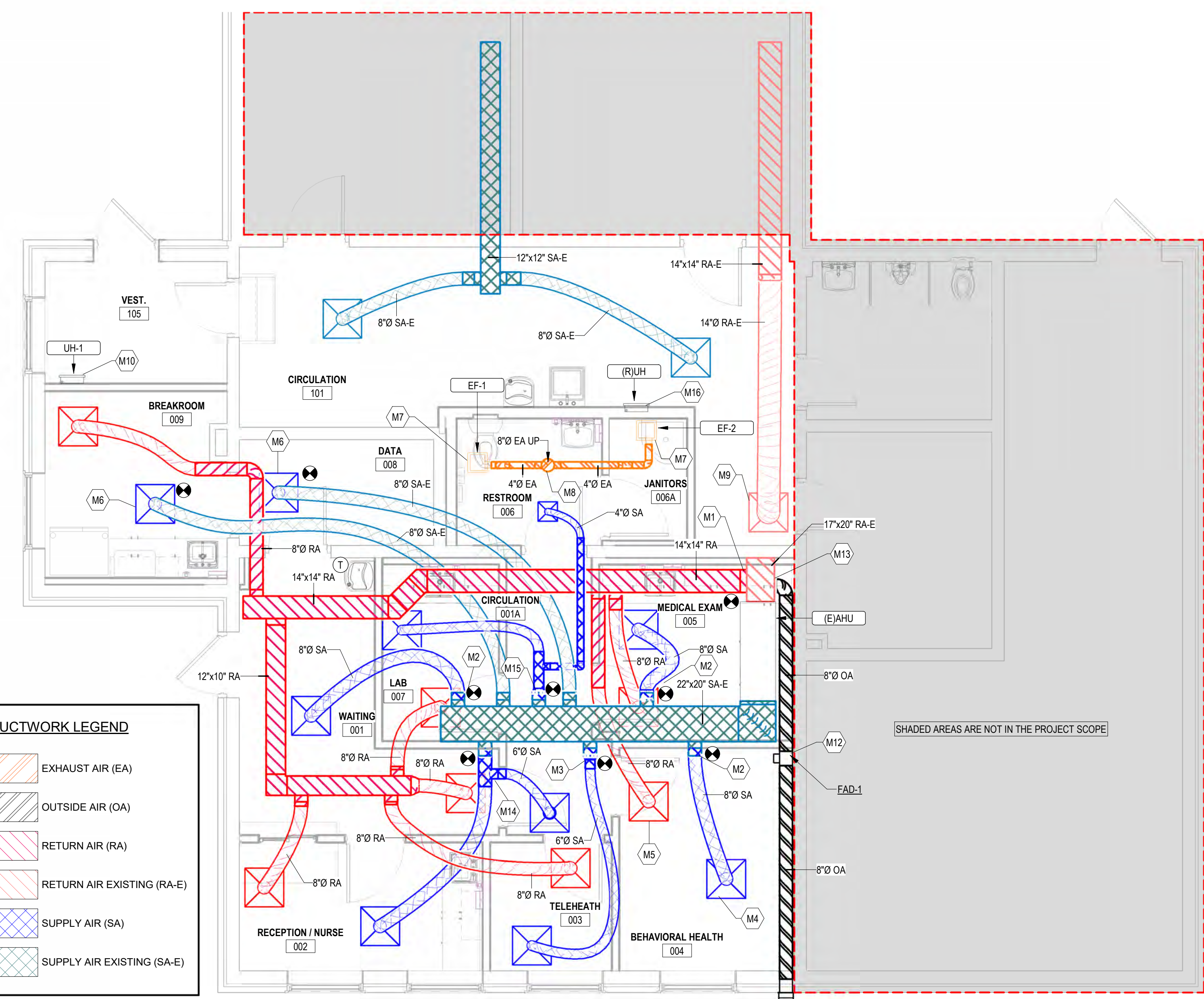
REVISION NO. (P. 0001) REVISION DATE:

PROJECT NO. 2025-119 CURRENT DATE: 03/11/2026

DRAWING NAME:



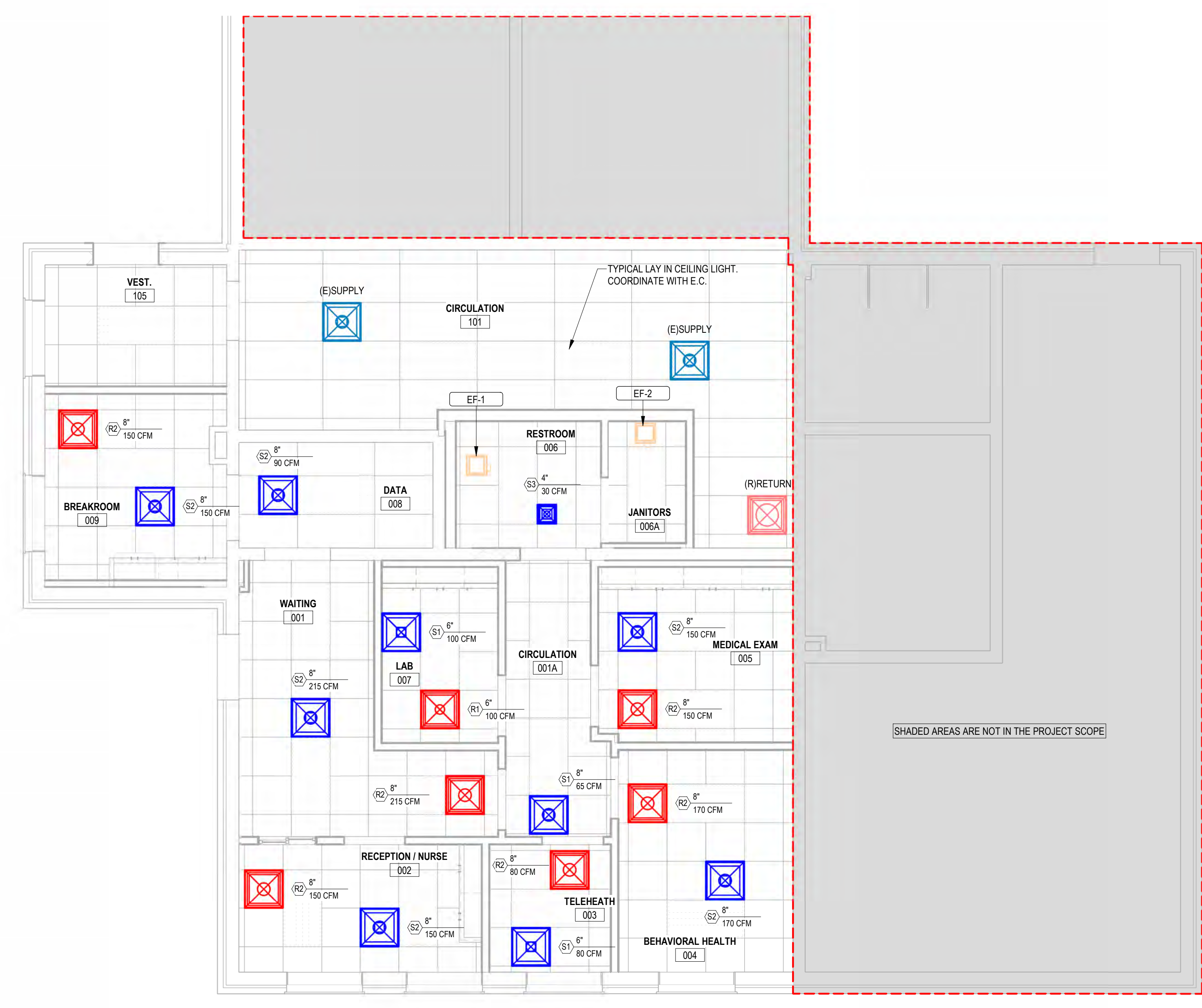
1 DEMOLITION PLAN
M101 1/4" = 1'-0"



2 NEW WORK PLAN
M101 1/4" = 1'-0"

Key Value	Keynote Text
MD1	EXISTING 3-TON SPLIT SYSTEM AIR HANDLER ABOVE CEILING TO REMAIN AS IS.
MD2	EXISTING 22x20SA MAIN DUCT ABOVE CEILING TO REMAIN.
MD3	M.C. TO CUT THIS EXISTING RETURN DUCT ABOVE CEILING AND REMOVE THE VERTICAL DROP INSIDE CHASE. CAP RETURN DUCT END ABOVE CEILING. ALSO REMOVE THE WALL GRILLE BELOW.
MD4	REMOVE THIS SUPPLY DIFFUSER AND ALL FLEX DUCT BACK TO MAIN TAP. FLEX DUCT THAT IS IN GOOD CONDITION MAY BE RE-USED FOR NEW DIFFUSER LOCATIONS. FIELD DETERMINE THIS CASE BY CASE AT EACH DIFFUSER.
MD5	THESE TWO 8" SA FLEX BRANCHES FROM MAIN TO REMAIN AS IS.
MD6	REMOVE THESE TWO DIFFUSERS AND REPLACE WITH NEW.
MD7	EXISTING RETURN DIFFUSER TO BE RELOCATED AS INDICATED IN NEW WORK PLAN.
MD8	THESE TWO EXISTING SUPPLY DIFFUSERS ARE TO REMAIN AS IS.
MD9	EXISTING THERMOSTAT TO REMAIN.
MD10	EXISTING WALL UNIT HEATER TO BE REMOVED AND RELOCATED TO NEW WALL. SEE NEW WORK PLAN.
MD11	EXISTING ELECTRIC BASEBOARD HEATER TO BE REMOVED COMPLETELY TO MAKE WAY FOR NEW EXTERIOR DOOR. COORDINATE POWER REMOVAL WITH E.C.
MD12	DUCTS CONTINUED TO AIR HANDLER BEYOND THIS PROJECT SCOPE.

Key Value	Keynote Text
M1	EXTEND A NEW 14x14RA DUCT FROM EXISTING RETURN STUB OUT AT UNIT. ROUTE AS SHOWN.
M2	PROVIDE NEW FLEX DUCT FROM EXISTING 8" TAPS TO NEW DIFFUSERS. M.C. MAY RE-USE ANY FLEX DUCT THAT WAS EXISTING AS LONG AS IT IS IN GOOD CONDITION. TYPICAL FOR 4 LOCATIONS.
M3	PROVIDE AN 8" TO 6" REDUCER AT THIS TAP AND ROUTE 6" FLEX TO DIFFUSER.
M4	TYPICAL NEW 2x2 CEILING DIFFUSER WITH INTEGRAL DAMPER IN NECK. REFER TO CEILING PLAN FOR NECK SIZE AND BALANCING AIRFLOW CFM.
M5	TYPICAL NEW 2x2 RETURN GRILLE WITH INTEGRAL DAMPER IN NECK. REFER TO CEILING PLAN FOR NECK SIZE AND BALANCING AIRFLOW CFM.
M6	INSTALL NEW 2x2 DIFFUSER ONTO EXISTING FLEX DUCTS.
M7	NEW CEILING MOUNTED EXHAUST FAN TIED TO ROOM LIGHT SWITCH. COORDINATE WITH E.C.
M8	EXTEND NEW 8EA DUCT UP THROUGH ROOF AND TERMINATE WITH A ROOF CAP. FLASHED INTO ROOFING.
M9	LOCATION OF EXISTING RETURN DUCT THAT WAS RELOCATED FROM THE ORIGINAL LOCATION WITHIN THIS ROOM.
M10	INSTALL A NEW WALL MOUNTED, 3kW ELECTRIC UNIT HEATER IN ENTRY/EXIT VESTIBULE AREA AS SHOWN. PROVIDE A SURFACE MOUNTED BOX.
M11	INSTALL AN 8" HOODED WALL CAP (FAH-1) IN EXTERIOR WALL AND EXTEND 8" OUTSIDE AIR DUCT TO RETURN DUCT OF THE AIR HANDLER.
M12	INSTALL AN 8" MOTORIZED OUTSIDE AIR DAMPER (FAD-1) IN 8" OUTSIDE AIR DUCT AT LOCATION SHOWN WHERE IT IS ACCESSIBLE. CONNECT DAMPER TO AHU FAN CONTROL SUCH THAT DAMPER IS OPEN WHEN FAN IS RUNNING AND CLOSED WHEN FAN IS OFF. REFER TO SEQUENCE OF OPERATION FOR SET POINTS.
M13	THE OUTSIDE AIR DUCT INTO RETURN AIR DUCT AS SHOWN. FLEX DUCT MAY BE USED IF HARD DUCT IS HARD TO FIT.
M14	EXTEND A NEW 8" METAL DUCT FROM (E)8" SA TAP. THEN PROVIDE A 6" SA BRANCH FROM THAT TAP AS SHOWN. AFTER THE 6" SA BRANCH, ROUTE 6" FLEX TO DIFFUSER IN RECEPTION/NURSE 002.
M15	PROVIDE AN 8" TO 6" METAL DUCT TRANSITION FROM THE (E)8" SA TAP. THEN PROVIDE A 4" BRANCH FROM THAT TAP AS SHOWN TO THE RESTROOM DIFFUSER. AFTER THE 4" BRANCH, ROUTE 6" FLEX TO DIFFUSER IN LAB 007.
M16	NEW LOCATION OF RELOCATED WALL UNIT HEATER. INSTALL AT 24" AFF AND COORDINATE WITH E.C. TO PROVIDE THE RELOCATED POWER SUPPLY.



3 LEVEL 1 HVAC CEILING PLAN
M101 1/4" = 1'-0"

REVISIONS	Revision Number	DESCRIPTION
DATE		

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PROJECT STATUS:
CONSTRUCTION DOCUMENTS

REVISION: NO (P. 000) REVISION DATE:

PROJECT NO.: 2025-119 CURRENT DATE: 03/11/2026
DRAWING NAME:

ELECTRICAL SPECIFICATIONS AND NOTES

CODES AND STANDARDS

ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST FEDERAL, STATE, AND LOCAL CODES, AS AMENDED BY THE STATE IN WHICH THE WORK IS BEING PERFORMED. THIS INCLUDES, BUT IS NOT LIMITED TO:

- ASIMRA/IEE 80.1 ENERGY CONSERVATION CODE
- VBC VIRGINIA STATE BUILDING CODE
- NEC NATIONAL ELECTRICAL CODE
- NESC NATIONAL ELECTRICAL SAFETY CODE

ALL WORK SHALL BE FIRST CLASS IN NATURE AND SHALL BE IN ACCORDANCE WITH RECOGNIZED STANDARDS, PROCEDURES, AND MATERIALS. RECOGNIZED STANDARDS INCLUDE, BUT ARE NOT LIMITED TO:

- AEIC AMERICAN ASSOCIATION OF EDISON ILLUMINATING COMPANIES
- ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS
- EPA ENVIRONMENTAL PROTECTION AGENCY
- ICC INTERNATIONAL CODE COUNCIL
- ICEA INSULATED CABLE ENGINEERS ASSOCIATION
- IEEE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
- IES ILLUMINATING ENGINEERING SOCIETY
- NECA NATIONAL ELECTRICAL CONTRACTOR ASSOCIATION
- NEIS NATIONAL ELECTRICAL INSTALLATION STANDARDS
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- NETA INTERNATIONAL ELECTRICAL TESTING ASSOCIATION
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
- TCLP TOXICITY CHARACTERISTIC LEACHING PROCEDURE
- UL UNDERWRITERS LABORATORIES (OR APPROVED 3RD PARTY TESTING AGENCY)

THE INSTALLATION SHALL ALSO COMPLY WITH ALL PERTINENT ORDINANCES, REGULATIONS, AND THE MANUFACTURER'S INSTRUCTIONS.

MATERIAL INSTALLED SHALL BE NEW AND CONFORM TO INDUSTRY STANDARDS.

GENERAL REQUIREMENTS

EQUALS: SPECIAL ATTENTION IS DIRECTED TO N.C. GENERAL STATUTE 133-3 ON APPLICABLE PROJECTS. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO ENCOURAGE FREE AND OPEN COMPETITION ON PUBLIC CONTRACTS. REFER TO THE GENERAL CONDITIONS AND SPECIFICATIONS FOR SUBMITTING APPROVED EQUALS PRIOR TO BID.

DOCUMENTS: REFER TO THE GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS, AND INSTRUCTIONS TO BIDDERS FOR ADDITIONAL INFORMATION. THESE DOCUMENTS ARE A PART OF THE CONTRACT DOCUMENTS.

OBTAIN ALL CONTRACT DOCUMENTS THAT PERTAIN TO THIS PROJECT. THIS INCLUDES DRAWINGS, SPECIFICATIONS, AND SUBMITTALS FOR OTHER TRADES. CONNECT AND PROVIDE SERVICES FOR EQUIPMENT AS SHOWN OR INDICATED WHEN APPLICABLE.

ADDENDA: OBTAIN EACH ADDENDA AND INCORPORATE THEM INTO THE BID.

INSURANCE: PROVIDE INSURANCE AS INDICATED IN THE GENERAL CONDITIONS, SPECIFICATIONS, OR AS DIRECTED BY THE OWNER PRIOR TO BID.

FEES: PAY ALL REQUIRED INSPECTION FEES PERTAINING TO THIS CONTRACTOR'S SCOPE OF WORK AND INCLUDE THE COST IN THE BID.

ALTERNATES & UNIT PRICES: EACH BIDDER IS RESPONSIBLE FOR BIDDING ALTERNATES AND UNIT PRICES AS INDICATED.

COMPLETE INSTALLATION: FURNISH ALL MATERIAL, LABOR, AND EQUIPMENT FOR A COMPLETE INSTALLATION FOR EACH ITEM OR SYSTEM.

THE TERM "PROVIDE" MEANS TO FURNISH, INSTALL, AND CONNECT WITH ALL RELATED HARDWARE, SOFTWARE, AND ACCESSORIES FOR A COMPLETE INSTALLATION READY FOR USE.

NOTIFY INSPECTORS: NOTIFY THE APPROPRIATE INSPECTORS TO SCHEDULE REQUIRED INSPECTIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ELECTRICAL INSPECTOR, FIRE MARSHAL, AUTHORITY HAVING JURISDICTION, AND THE ENGINEER OF RECORD.

CONTRACT SUPERVISOR: ASSIGN AND MAINTAIN A SINGLE QUALIFIED PERSON AS THE JOB SUPERINTENDENT THAT IS DEDICATED TO THIS PROJECT.

QUALIFIED PERSONNEL: PROVIDE ADEQUATE MANPOWER TO MEET THE SCHEDULE. THIS INCLUDES QUALIFIED ELECTRICIANS AND MECHANICS THAT ARE PROPERLY LICENSED AND SKILLED IN THE INSTALLATION OF THIS TYPE OF WORK.

MODIFICATIONS: MINOR CHANGES IN LOCATIONS OF EQUIPMENT SUCH AS RECEPTACLES, LIGHT FIXTURES, AND OTHER EQUIPMENT MAY BE MADE AT ANY TIME PRIOR TO ELECTRICAL ROUGH-IN WITHOUT CAUSING ADDITIONAL COST TO THE OWNER.

SITE CONDITIONS: VISIT THE PROJECT SITE PRIOR TO THE BID TO BECOME FAMILIAR WITH THE PROJECT CONDITIONS. DIRECT ANY QUESTIONS TO THE ENGINEER A MINIMUM OF 10 DAYS PRIOR TO BID.

COORDINATION: COORDINATE INSTALLATION WITH THE OWNER'S REPRESENTATIVE, GENERAL CONTRACTOR, AND OTHER TRADES AS APPLICABLE. AVOID CUTTING OR DAMAGING THE WORK OF OTHER TRADES. WHERE CUTTING IS UNAVOIDABLE, COORDINATE WITH OTHER CONTRACTORS FIRST. REPAIR WORK TO MATCH.

STRUCTURE: DO NOT CUT THE STRUCTURE WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

SLEEVES: PROVIDE, PLACE, AND NEATLY GROUT SLEEVES FOR ELECTRICAL WORK IN WALLS AND PARTITIONS.

FIRE CAULK: SEAL AIRTIGHT AROUND ALL CONDUITS, CABLES, BOXES, ETC., THAT ARE RUN THROUGH WALLS, FLOORS, PARTITIONS, AND CEILINGS. USE FIRE BARRIER CAULK AND PUTTY EQUAL TO 3M TYPE 903 PUTTY OR TYPE CP-25 CAULK AS APPLICABLE.

PENETRATIONS: PENETRATIONS THROUGH SMOKE RATED PARTITIONS AND FIRE WALLS SHALL BE PROTECTED PER CODE. APPROVED ASSEMBLIES AND MATERIALS SHALL BE USED AS REQUIRED. COORDINATE WITH THE GENERAL CONTRACTOR AND/OR ENGINEER.

DEFECTIVE EQUIPMENT: REMOVE AND REPLACE EQUIPMENT THAT IS DEFECTIVE OR THAT IS DAMAGED DURING CONSTRUCTION.

CHANGES: DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS SHALL BE REQUESTED IN WRITING PRIOR TO CHANGES BEING MADE. DEVIATIONS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.

SUBMITTALS: SUBMIT COPIES OF SUBMITTAL DATA FOR ALL MATERIALS AND EQUIPMENT TO BE INSTALLED ON THIS PROJECT. ELECTRONIC SUBMITTALS ARE ALSO ACCEPTABLE.

SUBMITTALS SHALL COMPLY WITH THE DRAWINGS, SPECIFICATIONS, AND CODE. INCLUDE MANUFACTURER CURRENT SPECIFICATION AND LITERATURE HIGHLIGHTED AND CLEARLY MARKED INDICATING MATERIALS AND EQUIPMENT TO BE PROVIDED.

SUBMITTAL DATA SHALL INCLUDE EQUIPMENT SIZES, CAPACITIES, VOLTAGE, AMPERAGE, ACCESSORIES, REQUIREMENTS FOR ACCESS AND MAINTENANCE, CLEARANCES, AND OTHER PERTINENT INFORMATION.

ONCE SUBMITTALS COMPLY AND ARE CLEARLY MARKED, STAMP AND SUBMIT TO THE THE ENGINEER FOR APPROVAL. SUBMITTALS WILL NOT BE REVIEWED IF THEY ARE NOT STAMPED OR CLEARLY MARKED.

RECORD DRAWINGS: MAINTAIN A SET OF RECORD DRAWINGS ON SITE THROUGHOUT CONSTRUCTION AND UPDATE DAILY.

MARK RECORD DRAWINGS WITH ALL REVISIONS, CHANGES, AND DEVIATIONS SHOWING ACCURATE AS-BUILT CONDITIONS. INCLUDE REVISIONS TO ALL SCHEDULES AS WELL AS REVISED LOCATIONS FOR DEVICES, CONDUITS, PANELBOARDS, EQUIPMENT, BOXES, WALLS, ETC....

SUBMIT 2 COPIES OF THE MARKED UP RECORD DRAWINGS TO THE ENGINEER AT THE COMPLETION OF THE PROJECT.

UTILITIES: ON APPLICABLE PROJECTS, COORDINATE POWER, TELEPHONE, TELEVISION, AND DATA SERVICE REQUIREMENTS WITH LOCAL UTILITIES PRIOR TO SUBMITTING A BID PROPOSAL.

PROVIDE TEMPORARY UTILITIES AS INDICATED IN THE GENERAL CONDITIONS OR AS DIRECTED BY THE OWNER.

TEMPERATURE RATINGS: ALL ELECTRICAL CONNECTORS, LUGS, BREAKERS, EQUIPMENT, ETC., SHALL BE RATED A MINIMUM OF 75 DEGREES CELSIUS.

BUILDING WIRE AND CABLE

A. GENERAL

1. ALL WIRE AND CABLE SHALL BE LISTED BY AN "APPROVED" THIRD-PARTY AGENCY ACCREDITED BY THE NCCBC.
2. PRIOR TO ENERGIZING FEEDERS, SUB-FEEDERS AND SERVICE CONDUCTORS, TEST CONDUCTORS FOR ELECTRICAL CONTINUITY AND SHORT CIRCUITS. A COPY OF THESE TESTS SHALL BE SENT TO THE ENGINEER OF RECORD, THE OWNER, AND MADE AVAILABLE TO THE AUTHORITY HAVING JURISDICTION.
3. ALL WIRE AND CABLE SHALL BE RUN IN RACEWAY.
4. MINIMUM FULL SIZE NEUTRAL WIRE SHALL BE PROVIDED FOR EACH SINGLE PHASE BRANCH CIRCUIT REQUIRING A NEUTRAL. SHARING OF NEUTRALS BETWEEN BRANCH CIRCUITS IS NOT ALLOWED.

B. CONDUCTORS

1. CONDUCTORS AND CABLES SHALL BE 600 VOLTS, THINWALL, COPPER. ALUMINUM CONDUCTORS ARE NOT ALLOWED.
2. POWER AND LIGHTING CIRCUITS #10AWG AND SMALLER SHALL HAVE SOLID COPPER CONDUCTORS. CONDUCTOR SIZES #8AWG AND LARGER SHALL HAVE CLASS B STRANDED COPPER CONDUCTORS. ALUMINUM CONDUCTORS ARE NOT ALLOWED.
3. POWER AND LIGHTING CIRCUITS' MINIMUM CONDUCTOR SIZE SHALL BE #12AWG, AND MAXIMUM SIZE ALLOWED SHALL BE 500 KCMIL LON.
4. FIRE ALARM AND CONTROL WIRING SHALL HAVE STRANDED COPPER CONDUCTORS.
5. FULL SIZE NEUTRAL CONDUCTOR SHALL BE PROVIDED FOR EACH SERVICE PANEL AND SUB-PANEL.

C. INSULATION

1. THE INSULATION TYPE FOR INTERIOR WIRING SHALL BE DUAL-RATED THHN/THWN OR XHHW.
2. **VOLTAGE DROP**
1. WHERE THE CONDUCTOR LENGTH FROM THE PANEL TO THE FIRST OUTLET ON A 120-VOLT CIRCUIT EXCEEDS 50 FEET, THE BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL NOT BE SMALLER THAN #10 AWG.

E. COLOR CODING

1. THE SECONDARY SERVICE, FEEDERS, AND BRANCH CIRCUITS SHALL BE COLOR CODED AS FOLLOWS:

- PHASE 208/120V
 - A BLACK
 - B RED
 - C BLUE
- NEUTRAL WHITE
- GROUND GREEN

F. SPLICING

1. JOINTS IN SOLID CONDUCTORS SHALL BE SPLICED USING IDEAL "WIRE NUTS," 3M COMPANY "SCOTCHLOK" OR T&B CONNECTORS IN JUNCTION BOXES, OUTLET BOXES, AND LIGHTING FIXTURES.
2. STA-KON," "PIGGY," OR OTHER PERMANENT TYPE CRIMP CONNECTORS SHALL NOT BE USED FOR #10 AWG AND SMALLER CONDUCTORS.
3. JOINTS IN STRANDED CONDUCTORS SHALL BE SPLICED BY APPROVED MECHANICAL CONNECTORS AND GUM RUBBER TAPE OR FRICTION TAPE. PERMANENT COMPRESSION CONNECTORS FOR SPLICES AND TAPS, PROVIDED UL-APPROVED INSULATING COVERS, MAY BE USED INSTEAD OF MECHANICAL CONNECTORS PLUS TAPE.
4. CONDUCTORS, IN ALL CASES, SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND NO SPLICING SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES, TROUGHS AND GUTTERS.

GROUNDING AND BONDING

- A. GROUNDING CONDUCTORS SHALL BE COLORED SOLID GREEN. CONDUCTORS INTENDED AS NEUTRAL SHALL BE COLORED SOLID WHITE ON 120/208 VOLT CIRCUITS AND NATURAL GRAY ON 277/480 VOLT CIRCUITS.
- B. THE RACEWAY SYSTEM SHALL NOT BE RELIED ON FOR EQUIPMENT GROUND CONTINUITY. A GREEN EQUIPMENT GROUNDING CONDUCTOR, PROPERLY SIZED PER NEC TABLE 250-122, SHALL BE RUN IN ALL RACEWAYS EXCEPT FOR TELECOMMUNICATIONS, DATA, AUDIO, AND LOW VOLTAGE RACEWAYS FOR FIRE ALARM SYSTEMS.
- C. BOND CABLE TRAYS TO MAKE THEM ELECTRICALLY CONTINUOUS. GROUND PER CODE.
- D. THE ELECTRICAL SERVICE SHALL BE GROUNDED BY THREE MEANS, WHEN AVAILABLE, PER THE NEC.
 1. TO THE METALLIC COLD-WATER PIPE, PER NEC 250-52.
 2. TO THE STEEL FRAME OF THE BUILDING, PROVIDED THE BUILDING FRAME IS EFFECTIVELY GROUNDED. IN NEW CONSTRUCTION, EFFECTIVELY GROUND AND BOND STEEL BUILDING FRAME.
 3. TO GROUND ROD(S). GROUND RODS SHALL BE 10 FEET LONG AND 3/4 INCH IN DIAMETER, AND SHALL BE OF COPPER-CLAD STEEL CONSTRUCTION. ALL GROUND CONNECTIONS SHALL BE ACCESSIBLE. PROVIDE A TEST WELL FOR EACH GROUND ROD DRIVEN.
- E. BOXES WITH CONCENTRIC, ECCENTRIC, OR OVER-SIZED KNOCKOUTS SHALL BE PROVIDED WITH BONDING BUSHINGS AND JUMPERS. THE JUMPER SHALL BE SIZED PER NEC TABLE 250-122 AND LUGGED TO THE BOX.
- F. WHERE ONE BUILDING IS FEEDING ANOTHER BUILDING, THE INSTALLATION SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF NEC ARTICLES 225 AND 250.
- G. THE GAS PIPING SYSTEM SHALL BE BONDED TO THE EQUIPMENT GROUND AS REQUIRED PER THE NEC AND VA FUEL GAS CODE.
- H. IDENTIFY EACH GROUNDING ELECTRODE CONNECTED TO A COMMON GROUND BUS. THE COMMON GROUND BUS SHALL NOT BE LESS THAN 4" HIGH BY 1/4" THICK, WITH LENGTH AS REQUIRED. LENGTH SHALL BE PROVIDED WITH 20% CAPACITY.

SUPPORTING DEVICES

- A. RACEWAY AND BOXES SHALL BE SUPPORTED IN A METHOD AND AT A SPACING AS APPROVED BY THE NEC, EXCEPT AS NOTED HEREIN.
- B. CONDUIT SHALL BE SUPPORTED BY APPROVED PIPE STRAPS OR CLAMPS.
- C. CONDUITS INSTALLED ON THE INTERIOR OF EXTERIOR BUILDING WALLS SHALL BE SPACED OFF THE WALL SURFACE A MINIMUM OF 1/4 INCH USING CLAMP-BACKS OR STRUT.
- D. PIPE STRAPS OR CLAMPS SHALL BE SECURED BY MEANS OF:
 1. TOGGLE BOLTS ON HOLLOW MASONRY
 2. METAL EXPANSION SHIELDS AND MACHINE SCREWS, OR STANDARD PRE-SET INSERTS, ON CONCRETE OR SOLID MASONRY.
 3. MACHINE SCREWS OR BOLTS ON METAL SURFACES.
4. WOOD SCREWS ON WOOD CONSTRUCTION.
5. POWER ACTUATED FASTENERS ARE NOT ALLOWED.

CONDUIT

- CONDUIT SCHEDULE**
- A. **BELOW SLAB ON GRADE AND UNDERGROUND:** PVC SCHEDULE 40 WITH ASPHALT COATED RIGID ELBOWS AND GROUND WIRE. ALL THREADED AND CONNECTIONS AND JOINTS SHALL BE WATERTIGHT.
 - B. **ABOVE SLAB ON GRADE AND OVERHEAD:** EMT CONDUIT WITH STEEL COMPRESSION TYPE FITTINGS UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
 - C. **HAZARDOUS AREAS, SPECIAL OCCUPANCIES, OR CONDUITS SUBJECT TO DAMAGE:** INSTALL CONDUIT PER THE NEC. THIS INCLUDES, BUT IS NOT LIMITED TO: GALVANIZED RIGID STEEL CONDUIT, EXPLOSION PROOF AND SEAL OFFS WHERE REQUIRED, ETC. REFER TO THE NEC FOR ADDITIONAL REQUIREMENTS.
 - D. **MOTOR CONNECTIONS:** LIQUID TIGHT FLEXIBLE METAL CONDUIT PER THE NEC.
 - E. **WHIPS (6 FEET OR LESS TO LIGHTING FIXTURES):** MC CABLE WHERE ALLOWED PER THE NEC.
 - F. **DEVIATIONS:** ANY DEVIATION SHALL BE APPROVED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO BID AND THE AHJ PRIOR TO ROUGH-IN.
 - G. MINIMUM CONDUIT SIZES: 3/4" ABOVE GROUND AND 1" UNDERGROUND.

UNDERGROUND RACEWAYS

- A. RACEWAYS RUN EXTERNAL TO BUILDING FOUNDATION, EXCEPT BRANCH CIRCUIT RACEWAYS, SHALL BE ENCASED WITH A MINIMUM OF THREE INCHES OF CONCRETE ON ALL SIDES. EARTH SHALL BE OF GALVANIZED RIGID STEEL FOR THE LAST TWO FEET MINIMUM.
- B. ENCASED RACEWAYS MUST HAVE A MINIMUM COVER OF EIGHTEEN INCHES, EXCEPT RACEWAYS CONTAINING CIRCUITS WITH VOLTAGES ABOVE 1000 VOLTS, WHICH MUST HAVE A MINIMUM COVER OF THIRTY INCHES.
- C. ENCASED RACEWAYS SHALL BE OF A TYPE APPROVED BY THE NEC AND SUITABLE FOR CONCRETE ENCASEMENT.
- D. STEEL REINFORCING SHALL BE REQUIRED UNDER ROADWAYS AND WITHIN 10 FEET OF ALL MANHOLES AND BUILDING ENTRANCES. THE STEEL REINFORCING SHALL BE TIED TO THE WALL REINFORCING AT MANHOLES AND BUILDING ENTRANCES.
- E. BRANCH CIRCUITS RUN UNDERGROUND EXTERNAL TO BUILDING FOUNDATION WALLS SHALL BE RUN IN ACCORDANCE WITH THE NEC, AND SHALL BE APPROVED AS SUITABLE FOR DIRECT BURIAL. MINIMUM SIZE SHALL BE 1 INCH.
- F. ALL UNDERGROUND RACEWAYS, EXCEPT BRANCH CIRCUITS, SHALL BE IDENTIFIED BY UNDERGROUND LINE MARKING TAPE LOCATED DIRECTLY ABOVE THE RACEWAY 6 TO 8 INCHES BELOW FINISHED GRADE. TAPE SHALL BE PERMANENT, BRIGHT COLORED, CONTINUOUS PRINTED, PLASTIC TAPE COMPOUNDED FOR DIRECT BURIAL, NOT LESS THAN 6 INCHES WIDE AND 4 MILS THICK.
- G. WHERE UNDERGROUND RACEWAYS ARE REQUIRED TO TURN UP TO CABINETS, EQUIPMENT, ETC., AND ON TO POLES, THE ELBOW REQUIRED AND THE STUB-UP OUT OF THE SLAB OR EARTH SHALL BE OF GALVANIZED RIGID STEEL FOR THE LAST TWO FEET MINIMUM.
- H. WHERE PASSING THROUGH A BELOW GRADE WALL FROM A CONDITIONED INTERIOR BUILDING SPACE, RACEWAYS SHALL BE SEALED UTILIZING FITTINGS SIMILAR AND EQUAL TO ODGENEY TYPE FSK THROUGH-WALL FITTING WITH FSK MEMBRANE CLAMP ADAPTER IF REQUIRED.

ABOVE GROUND RACEWAYS

- A. SUPPORT AND ATTACH ALL CONDUITS AND RACEWAYS PER THE NEC WITH APPROVED HANGERS AND CLAMPS. DO NOT SUPPORT CONDUITS, RACEWAYS, OR CABLES FROM DUCTWORK, PIPING, CEILING GRID SUPPORT WIRES, OR CEILING SUPPORT SYSTEM. PROVIDE SUPPLEMENTAL STEEL SUPPORTS BETWEEN JOISTS, BEAMS, PURLINS, TRUSSES, ETC., AS REQUIRED.
- B. CONDUITS AND RACEWAYS SHALL BE SEISMICALLY SUPPORTED WHERE REQUIRED BY THE BUILDING CODE.

TERMINATIONS

- A. IMC AND GRC SHALL TERMINATE WITH EITHER A DOUBLE LOCKOUT/BUSHING SET, OR IN A THREADED HUB.
- B. WHERE CONCENTRIC, ECCENTRIC, OR OVER-SIZED KNOCKOUTS ARE ENCOUNTERED, A GROUNDING-TYPE INSULATED BUSHING SHALL BE PROVIDED.
- C. ALL CONDUIT TERMINATIONS SHALL BE PROVIDED WITH INSULATED THROAT.
- D. EMT TERMINATIONS SHALL BE MADE UTILIZING PLATED STEEL HEXAGONAL COMPRESSION CONNECTORS. NO POT METAL, SET SCREW, OR INDENTED TYPE FITTINGS SHALL BE UTILIZED.

CONDUIT FITTINGS

- A. WHERE CONDUITS OF ANY TYPE PASS OVER A BUILDING EXPANSION JOINT, A STANDARD EXPANSION JOINT FITTING, COMPATIBLE WITH THE TYPE RACEWAY BEING USED, SHALL BE PROVIDED.
- B. CONDUIT COUPLINGS FOR IMC, GRC, AND PVC SHALL BE IN ACCORDANCE WITH THE NEC.
- C. EMT COUPLINGS SHALL BE OF THE PLATED STEEL HEXAGONAL COMPRESSION TYPE. NO POT METAL, SET SCREW, OR INDENTED TYPE COUPLINGS SHALL BE UTILIZED.
- D. IN OUTDOOR LOCATIONS OR INTERIOR DAMP LOCATIONS, GASKETED FITTINGS INCLUSIVE OF COUPLINGS SHALL BE USED IN ALL METALLIC RACEWAYS.

ELECTRICAL IDENTIFICATION

REFER TO DETAIL ON THE DRAWINGS.

INTERIOR LUMINAIRES

REFER TO THE LIGHTING FIXTURE SCHEDULE AND THE LIGHTING FIXTURE SCHEDULE DETAIL ON THE DRAWINGS.

CLEANING AND PAINTING

- A. VACUUM AND CLEAN ALL BOXES AFTER ROUGH-IN AND PROTECT FROM CONSTRUCTION DEBRIS/PAINTING.
- B. CLEAN ALL CONDUITS, HANGERS, SUPPORTS, PANELS, LIGHTS, DEVICES, ETC., AND LEAVE READY FOR USE OR PAINTING.
- C. COORDINATE ALL PAINTING REQUIREMENTS WITH THE ARCHITECT, GENERAL CONTRACTOR, AND/OR OWNER PRIOR TO BID.
- D. TOUCH UP ALL SCRATCHED SURFACES ON FACTORY FINISHED EQUIPMENT AND MATERIALS WITH PAINT OF SAME TYPE AND COLOR.

TESTING

- A. PERFORM ALL TESTS REQUIRED BY CODE. MEG-TEST ALL PANELS TO ELIMINATE GROUNDS AND SHORT CIRCUITS. TEST ALL LIGHTS, RECEPTACLES, EQUIPMENT, ETC., FOR PROPER CONNECTION AND GROUNDING.
- B. TEST THE GROUND SYSTEM WITH "EARTH MEGGER;" FURNISH TEST RESULTS TO THE OWNER AND ENGINEER. ADD ADDITIONAL GROUND RODS UNTIL TEST RESULTS ARE BELOW 25 OHMS.
- C. ENSURE THAT ALL LUGS ON ALL FEEDERS ARE TIGHT THROUGHOUT CONSTRUCTION. TORQUE AS REQUIRED.

TRAINING

- A. INSTRUCT OWNER'S REPRESENTATIVES IN PROPER OPERATION AND MAINTENANCE OF ALL SYSTEMS AND EQUIPMENT.
- B. FURNISH TO OWNER COPIES OF OPERATING AND MAINTENANCE MANUALS, INCLUDING GUARANTEES AND SPARE PARTS LIST.

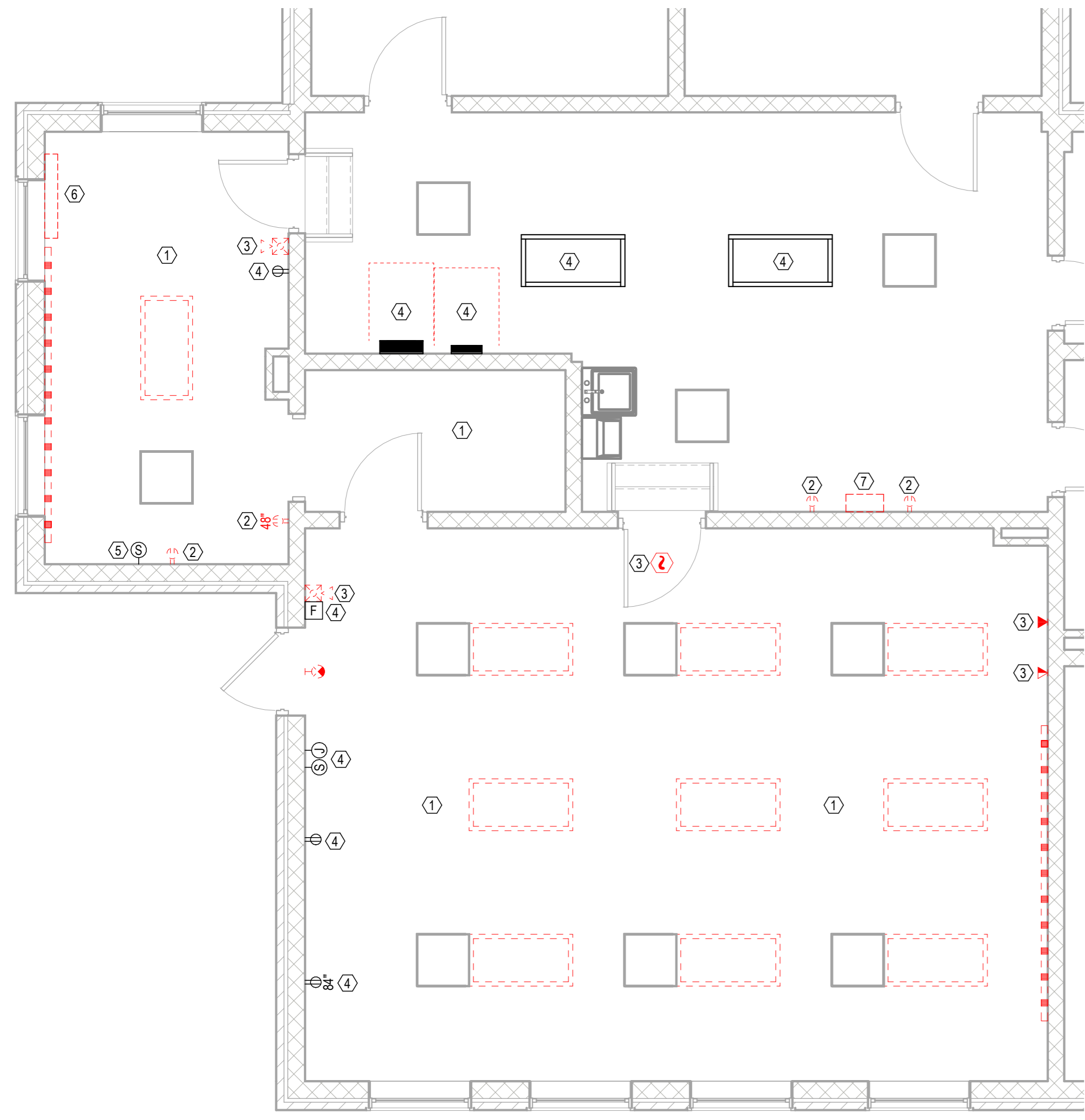
GUARANTEE

A. GUARANTEE ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE TIME OF FINAL ACCEPTANCE BY THE OWNER UNLESS OTHERWISE INDICATED. REPAIR AND/OR REPLACE, WITHOUT ANY COST TO THE OWNER, ANY DEFECTIVE PART OR WORKMANSHIP WITHIN THE GUARANTEE PERIOD.

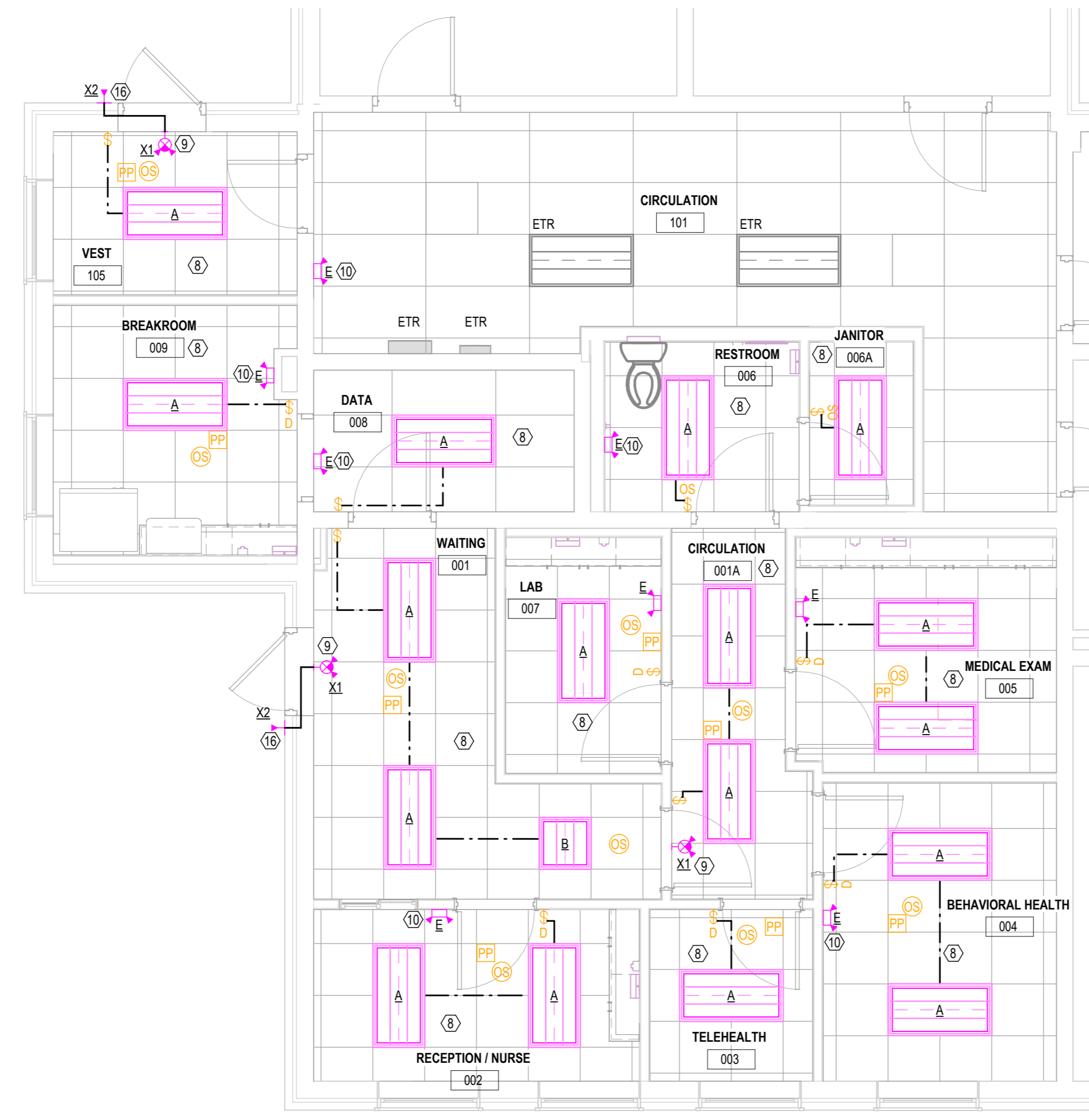
1. LINK TRADE PERMITS WITH THE BUILDING PERMIT.
2. ALL PRE-WIRED EQUIPMENT SHALL BE LISTED BY STATE OF VA APPROVED 3RD PARTY AGENCY, (NEC 90.7.110 B)(3)
3. CLEARANCE REQUIRED AT ELECTRICAL EQUIPMENT, (NEC 110.26)
4. ALL GROUNDING AND BONDING REQUIRED TO COMPLY WITH NEC ARTICLE 250, (NEC 250.1)
5. FLEXIBLE CORDS SHALL NOT PASS THROUGH CEILINGS, WALLS OR FLOORS, (NEC 400.9)
6. ALL WIRING, INCLUDING LOW VOLTAGE, DATA, PHONE, FIRE ALARM, SECURITY, HVAC CONTROLS, AND POWER SHALL BE PERMITTED AND INSPECTED PER VA GENERAL STATUTES PER COUNTY AND CITY ORDINANCE.
7. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE LABEL LISTED BY A VIRGINIA APPROVED THIRD PARTY TESTING AGENCY.

- UNIT PRICING:**
- #12 WIRE APPROXIMATELY 100FT IN LENGTH, INCLUDE ALL LABOR AND MATERIAL.
 - #10 WIRE APPROXIMATELY 100FT IN LENGTH, INCLUDE ALL LABOR AND MATERIAL.
 - #8 WIRE APPROXIMATELY 100FT IN LENGTH, INCLUDE ALL LABOR AND MATERIAL.
 - #6 WIRE APPROXIMATELY 100FT IN LENGTH, INCLUDE ALL LABOR AND MATERIAL.
 - #4 WIRE APPROXIMATELY 100FT IN LENGTH, INCLUDE ALL LABOR AND MATERIAL.
 - #2 WIRE APPROXIMATELY 100FT IN LENGTH, INCLUDE ALL LABOR AND MATERIAL.

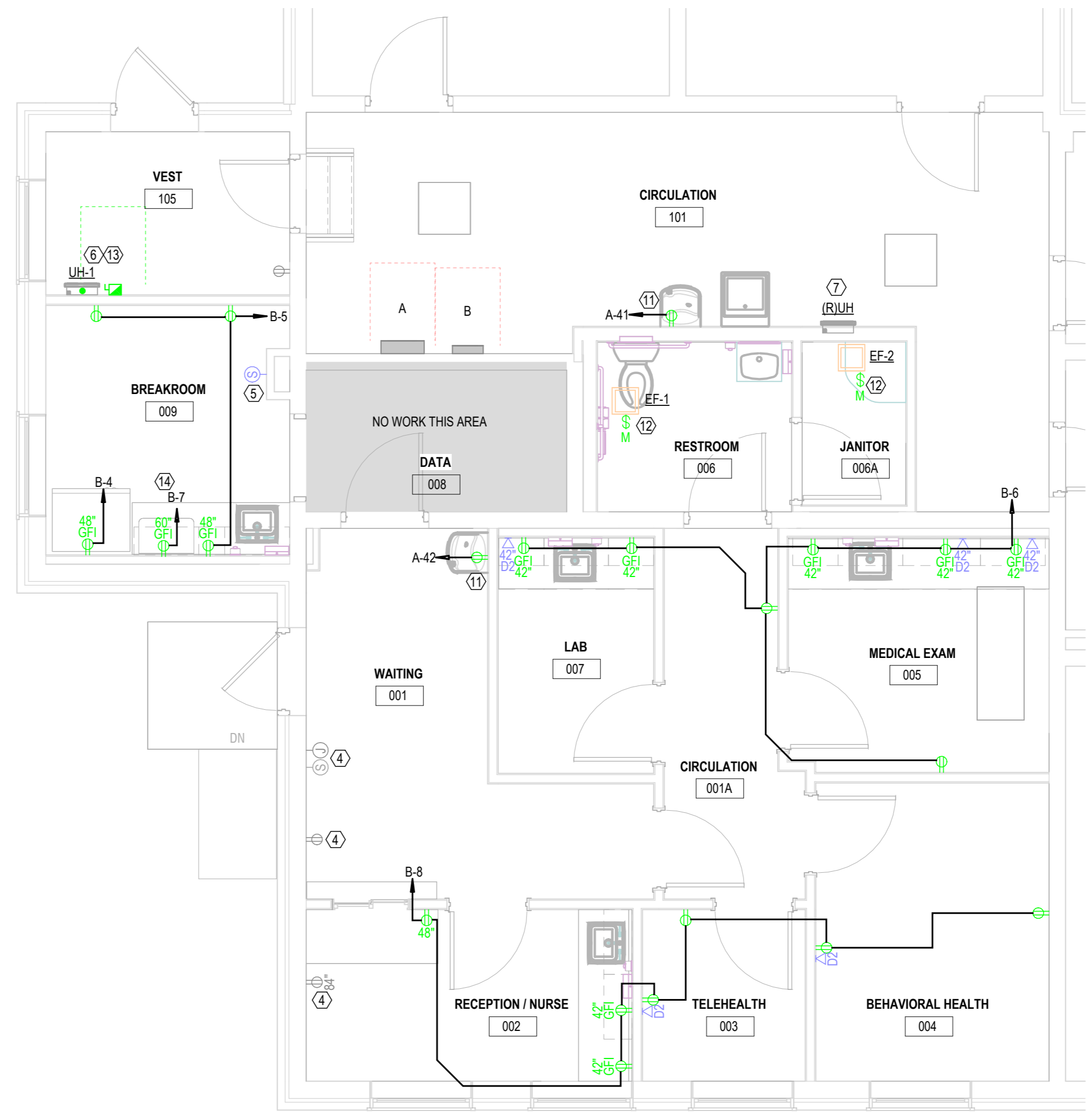
Electrical Abbreviations	
IP	1 Pole (2P, 3P, 4P, ETC.)
A	Ampere
AC	Above Counter
ADCG	Above Ceiling
ADO	Automatic Door Opener
AF	Amp Frame
AFG	Above Finished Floor
AFI	Above Finished Grade
AFI	As-Fact-Circuit Interrupter
AHU	Air Handling Unit
AL	Aluminum
ALT	Alternate
AMP	Ampere
AMP	Amplifier
ANNUN	Annunciator
APPROX	Approximately
AQ-STAT	Aquastat
ARCH	Architect Architectural
AS	Amp Switch
AT	Amp Trip
ATS	Automatic Transfer Switch
AUTO	Automatic
AUX	Auxiliary
AV	Audio Visual
AWG	American Wire Gauge
BATT	Battery
BD	Building
BLDG	Building
BMS	Building Management System
C	Conduit
CAB	Cabinet
CAT	Catalog
CONV	Conversion
CB	Circuit Breaker
CCTV	Closed Circuit Television
CR	Circuit
CLG	Ceiling
COMB	Combination
COMP	Compressor
CONN	Connection
CONST	Construction
CONT	Continuation Or Continuous
CONTR	Contractor
CONV	Converter
CP	Circulating Pump
CRT	Cathode Ray Tube
CT	Current Transformer
CTR	Control
CU	Copper
DWP	Domestic Water Circulating Pump
DEPT	Department
DET	Detail
DIA	Diameter
DISC	Disconnect
DIST	Distribution
DN	Down
DPR	Damper
DT	Double Throw
DWG	Drawing
ED	Electrical
ELEC	Electric, Electrical
ELEV	Elevator
ELL	Emergency Lighting Unit
EM	Emergency
EMS	Energy Management System
EMT	Electrical Metallic Tubing
EP	Electric Pneumatic
EQUIP	Equipment
EWIC	Electric Water Cooler
EXIST	Existing
EXH	Exhaust
EXP	Explosion Proof
FA	Fire Alarm
FABP	Fire Alarm Booster Power Supply Panel
FACP	Fire Alarm Control Panel
FCU	Fan Coil Unit
FIXT	Fixture
FLR	Floor
FLUOR	Fluorescent
FJ	Fuse
FUDS	Fused Safety Disconnect Switch
GA	Gauge
GAL	Gallon
GALV	Galvanized
GC	General Contractor
GEN	Generator
GFI	Ground Fault Circuit Interrupter
GFP	Ground Fault Protector
GND	Ground
GRS	Galvanized Rigid Steel (Conduit)
GYP BD	Gypsum Board
HOA	Hands-Off Automatic Switch
HORIZ	Horizontal
HP	Horsepower
HPF	High Power Factor
HT	Height
H	Heating
HTR	Heater
HV	High Voltage
HVAC	Heating, Ventilating And Air Conditioning
IC	Interrupting Capacity
IG	Isolated Ground
IMC	Intermediate Metal Conduit
INCAND	Incandescent
IR	Infrared
IW	Interlock With Junction Box
J-BOX	Junction Box
KV	Kilovolt
KVA	Kilovolt-Ampere
KVAR	Kilovolt-Ampere Reactive
KW	Kilowatt
KWH	Kilowatt Hour
LOC	Locale Or Location
LT	Light
LTG	Lighting
LV	Low Voltage
MAX	Maximum
MAG.S	Magnetic Starter
MC	Momentary Contact
MC	Mechanical Contractor
MCB	Main Circuit Breaker
MCC	Motor Control Center
MDC	Main Distribution Center
MDP	Main Distribution Panel
MFR	Manufacturer
MFS	Main Fused Disconnect Switch
MH	Manhole
MI	Microphone
MIN	Minimum
MISC	Miscellaneous
MLO	Main Lugs Only
MMS	Manual Motor Starter
MOA	Motorized Assembly
MSP	Motor Starter Panelboard
MSBO	Main Switchboard
MSS	Motor Starter Switch
M	Mount
MT	Motor
MT-C	Empty Conduit
MTS	Manual Transfer Switch
MR	Motor, Motorized
N.C.	Normally Closed
N.E.C.	National Electrical Code
NEMA	National Electrical Manufacturers Association
NFDS	Non-Fused Safety Disconnect Switch
NIC	Not In Contract
NIGHT	Night Light
N.O.	Normally Open
NFC	Normal Power Factor
NIS	Not To Scale
OC	On Center
OH	Overhead
OH	Overhaul
CAV	Cable Address
PA	Public Address
PE	Pull Box Or Pushbutton
PED	Pedestal
PF	Power Factor
PH	Phase
PI	Post Indicating Valve
PNL	Panel
PP	Power Pole
PR	Power Pole
PR	Primary
PROJ	Projection
PRV	Power Roof Ventilator
PT	P



1
E1.0
ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



2
E1.0
ELECTRICAL LIGHTING PLAN
1/4" = 1'-0"



3
E1.0
ELECTRICAL POWER PLAN
1/4" = 1'-0"

ID	DESCRIPTION	MANUFACTURER	MODEL NUMBER	EQUIVALENT MANUFACTURER	MOUNTING	LUMENS	LAMP	CCT	CRI	DRIVER	WATTS	EMERGENCY COMPONENT	NOTES
A	2X4 RECESSED FULLY SWITCHABLE FLAT PANEL	LITHONIA	CPANEL 2X4 AL06 SWW7 M2 MVOLT	LITESOURCE; H.E.WILLIAMS; COOPER	LAY-IN	4000 lm	INTEGRAL LED	3500 K	80	LED DRIVER	36 W	--	--
B	2X2 RECESSED FULLY SWITCHABLE FLAT PANEL	LITHONIA	CPANEL 2X2 AL06 SWW7 M2 MVOLT	LITESOURCE; H.E.WILLIAMS; COOPER	LAY-IN	4000 lm	INTEGRAL LED	3500 K	80	LED DRIVER	32 W	--	--
E	ELU INDOOR, TWO HEAD	LITHONIA	ELMIL LVLT L TTP	LITESOURCE; H.E.WILLIAMS; COOPER	SURFACE WALL	1100 lm	INTEGRAL LED	6500 K	80	--	3 W	BATTERY	--
X1	EXIT/ELU COMBO, RED LETTERING	LITHONIA	LHQM LED R HO	LITESOURCE; H.E.WILLIAMS; COOPER	WALL	1045 lm	INTEGRAL LED	4000 K	0	--	4 W	BATTERY	--
X2	EGRESS ELU OUTDOOR, TWO HEAD	LITHONIA	ELMRE SP640L T	LITESOURCE; H.E.WILLIAMS; COOPER	WALL	320 lm	INTEGRAL LED	6500 K	80	--	3 W	REMOTE BATTERY	VERIFY COLOR AND FINISH WITH ARCHITECT.

- REMARKS:
- ALL LIGHT FIXTURES SHALL BE ENERGY EFFICIENCY DLC (DESIGN LIGHTS CONSORTIUM) CERTIFIED.
 - LIGHT FIXTURES SHALL BE EQUIPPED WITH UL LISTED AND APPROVED INTEGRALLY MOUNTED DISCONNECTS FOR DRIVER IN ACCORDANCE WITH ARTICLE 410.30 OF THE NATIONAL ELECTRICAL CODE (NEC). THE CONTRACTOR SHALL COORDINATE WITH THE DISTRIBUTOR AND MANUFACTURER TO VERIFY THAT NEW LIGHTS MEET ALL REQUIREMENTS OF THE LATEST EDITION OF THE NEC.
 - ALL LAY-IN TYPE LED LIGHT FIXTURES SHALL BE SUPPORTED FROM THE STRUCTURE WITH TWO CEILING SYSTEM SUPPORT WIRES. WIRES SHALL BE ATTACHED AT DIAGONALLY OPPOSITE CORNERS OF THE LIGHT. IN ADDITION, EACH LIGHT SHALL BE ATTACHED TO THE CEILING GRID SYSTEM USING FOUR SCREWS (TWO AT EACH END). SCREWS SHALL NOT INTERFERE WITH THE DOOR OPERATION.
 - PROVIDE TYPED ROD OR WIRE SUPPORT FROM THE STRUCTURE TO ALL CEILING MOUNTED RECESS CAN LIGHTS SO THAT TRIM WILL FIT FLUSH AGAINST THE CEILING AND THE CEILING TILES WILL NOT SAG.
 - ALL LAMPS OF EACH CATEGORY SHALL BE OF THE SAME MANUFACTURER.
 - EXIT LIGHTS SHALL HAVE EVEN GRAPHICS ILLUMINATION (INDIVIDUAL LED SHALL NOT BE VISIBLE), UNIVERSAL MOUNTING, FACES, ARROWS, AND ETC.
 - CONNECT ALL FIXTURES WITH THE "EMERGENCY" (HATCHED) AND EXISTING EMERGENCY EGRESS LIGHTS TO THE NEAREST EXISTING LIFE SAFETY PANEL. SEE PANEL SCHEDULES AND SITE WORK PLAN NEW WORK.
 - PROVIDE ALL FIXTURE MOUNTING HARDWARE WHERE REQUIRED.
 - OUTDOOR AND CANOPY LIGHTS ARE TO BE UL WET LOCATION LISTED.
 - PROVIDE BULB-IN 120V PHOTOCCELL AND SENSOR.
 - VERIFY LIGHT FIXTURE FINISH PRIOR TO ORDERING.

CKT	DESCRIPTION	NOTE	TRIP (A)	P	WIRES & CONDUITS	PHASE A LOAD (KVA)	PHASE B LOAD (KVA)	WIRES & CONDUITS	P	TRIP (A)	NOTE	DESCRIPTION	CKT
1	EX. VACUUM SYSTEM		60	2	--	3	5	--	2	60		PANEL B	2
3	EX. AC		30	2	--	2	2	--	2	30		EX. RCPT	6
7	SPARE		20	2	--	0	1	--	1	30		EX. RCPT	10
11	EX. JANITOR		30	1	--	2	1	--	1	30		EX. RCPT	12
13	EX. RCPT		30	1	--	2	1	--	1	30		EX. RCPT	14
15	EX. RCPT		30	1	--	2	1	--	1	30		EX. RCPT	16
17	EX. PLANNER		30	2	--	2	2	--	2	30		EX. HEATER	18
19	EX. RCPT		30	1	--	2	1	--	1	30		EX. RCPT	20
21	EX. LAB LIGHTS		30	2	--	2	1	--	1	30		EX. RCPT	22
23	EX. LAB LIGHTS		30	1	--	2	1	--	1	30		EX. RCPT	24
25	EX. LAB LIGHTS		30	1	--	2	1	--	1	30		EX. RCPT	26
27	EX. ELECTRIC HEAT		30	2	--	2	1	--	2	30		EX. AIR CLEANER	28
29	EX. RCPT		30	1	--	1	2	--	2	30		EX. HEATER	30
31	EX. RCPT		30	1	--	1	2	--	2	30		EX. HEATER	32
33	EX. RCPT		30	1	--	1	2	--	2	30		EX. HEATER	34
35	EX. RCPT		30	1	--	1	2	--	2	30		EX. HEATER	36
37	EX. RCPT		30	2	--	1	2	--	2	30		EX. HEATER	38
39													40
41	EWC = GFCI BREAKER		20	1	2#12,#12G,3/4"	0	0	2#12,#12G,3/4"	1	20		EWC = GFCI BREAKER	42

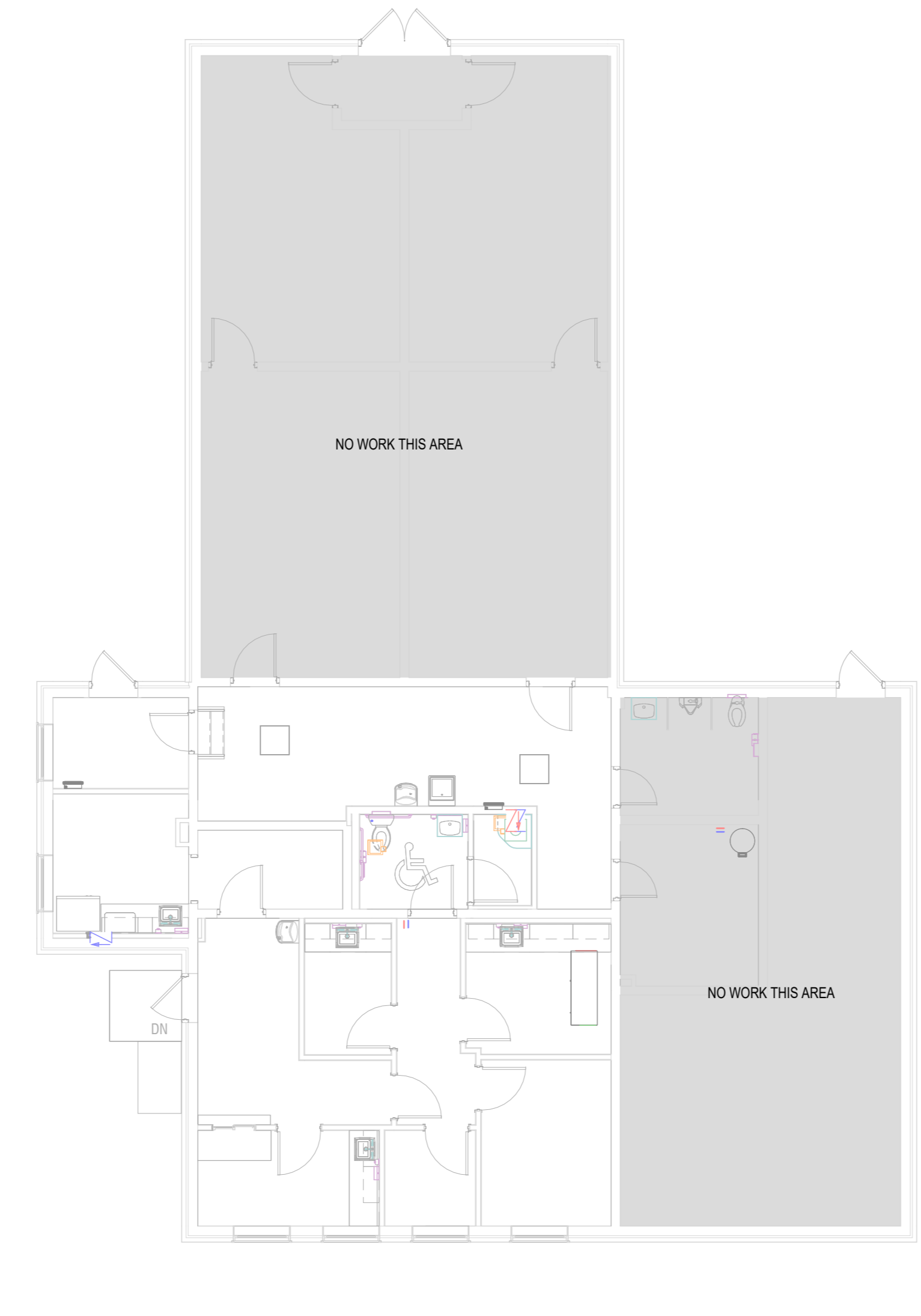
LOAD CLASSIFICATION	CONNECTED	FACTOR	DEMAND
RECEPTACLE - GENERAL	5820 VA	100.00%	5820 VA

PANEL TOTALS
CONNECTED LOAD: 157 KVA
CONNECTED CURRENT: 238 A
DEMAND LOAD: 157 KVA
DEMAND CURRENT: 238 A

CKT	DESCRIPTION	NOTE	TRIP (A)	P	WIRES & CONDUITS	PHASE A LOAD (KVA)	PHASE B LOAD (KVA)	WIRES & CONDUITS	P	TRIP (A)	NOTE	DESCRIPTION	CKT
1	EX. LOAD		40	2	--	2	2	--	1	20		BATHROOM HEATER	2
3	RCPT - BREAKROOM RM 009		20	1	2#12,#12G,3/4"	1	1	2#12,#12G,3/4"	1	20		RCPT - BREAKROOM RM 009	4
5	RCPT - BREAKROOM RM 009		20	1	2#12,#12G,3/4"	1	1	2#12,#12G,3/4"	1	20		RCPT - RM 008 & 007	6
7	RCPT - BREAKROOM RM 009		20	1	2#12,#12G,3/4"	1	1	2#12,#12G,3/4"	1	20		RCPT - RM 002, 003, 004	8

LOAD CLASSIFICATION	CONNECTED	FACTOR	DEMAND
RECEPTACLE - GENERAL	5460 VA	100.00%	5460 VA

PANEL TOTALS
CONNECTED LOAD: 11 KVA
CONNECTED CURRENT: 16 A
DEMAND LOAD: 11 KVA
DEMAND CURRENT: 16 A



5
E1.0
LEVEL 1 KEY PLAN
1/8" = 1'-0"



4
E1.0
ELECTRICAL FIRE ALARM PLAN
1/4" = 1'-0"

DEMOLITION SHEET NOTES

- THE CONTRACTOR SHALL VISIT THE SITE SPECIFICALLY INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL BE THOROUGHLY FAMILIARIZED HIMSELF WITH THESE CONDITIONS.
- IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES, ELECTRICAL EQUIPMENT, ETC., AFFECTED BY THE REMODELED AREA.
- ALL FIRE ALARM DEVICES ARE TO BE REMOVED AND REINSTALLED. REMOVE WIRING AS NEEDED. ALL UNUSED CONDUIT, WIRING SHALL BE REMOVED BACK TO THE SOURCE AND DISCARD. U.N.O.
- ALL COMMUNICATION DEVICES ARE TO BE REMOVED. REMOVE CONDUIT AND WIRING BACK TO THE SOURCE AND DISCARD. U.N.O.
- ALL ABANDONED OUTLETS INCLUDING RECEPTACLES, TELEPHONE, DATA, ETC., SHALL BE COVERED AND PATCHED TO MATCH THE FINISH OF SURROUNDING WALL OR CEILING TO THE SATISFACTION OF THE OWNER. COORDINATE WITH ARCHITECT AND G.C.

LIGHTING SHEET NOTES

- ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED FOR ALL ELECTRICAL EQUIPMENT TO PERMIT READY AND SAFE OPERATION AND MAINTENANCE. (NEC 110.26)
- ALL CONDUIT AND WIRES AT OPEN CEILING ARE TO BE CONCEALED AND INSTALLED ALONG THE STRUCTURAL BEAMS IN A CLEAN WAY AND HIDDEN AS MUCH AS POSSIBLE. DO NOT INSTALL CABLES, RACEWAYS, AND BOXES IN THE SPACE BETWEEN THE METAL DECK AND THE ROOFING MATERIAL PER NEC 300.4(E). ROUTE CONDUITS PARALLEL OR PERPENDICULAR TO STRUCTURAL STEEL.
- PENETRATIONS THROUGH FIRE WALL MUST BE PROPERLY SEALED TO ENSURE EFFECTIVE FIRE RESISTANCE BY AN APPROVED CONTRACTOR. COORDINATE WITH G.C.
- LIGHTING FIXTURE LOCATIONS SHOWN ARE SCHEMATIC. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.
- ALL BRANCH CIRCUIT CONDUIT TO BE INSTALLED OVERHEAD.
- EMERGENCY CIRCUIT WIRING TO HAVE CONTACTOR SWITCHED CONDUCTOR AND ALSO UNSWITCHED CONDUCTOR TO ALL EXIT AND EXTERIOR LIGHTS WHERE SHOWN.
- CONFIRM LOCATION OF ALL DOOR SWINGS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
- REFER TO ARCHITECT'S REFLECTED CEILING PLANS FOR CEILING HEIGHTS, TYPES, FINISHES, ETC. IN EACH AREA. VERIFY FLANGE TYPES, TRIM KITS, STEM LENGTH, ETC. FOR ALL LIGHT FIXTURES PRIOR TO SUBMITTALS.
- COORDINATE WITH LIGHTING VENDORS FOR NECESSARY MOUNTING HARDWARE AND ACCESSORIES PRIOR TO ROUGH-IN.
- NOTIFY ENGINEER OF ANY DISCREPANCY PRIOR TO ROUGH-IN.
- ALL CONDUITS IN EXPOSED CEILING AREAS SHALL BE RUN PARALLEL OR PERPENDICULAR WITH LIGHTING VENDORS. TIGHT TO THE ROOF DECK OR TOP OF STEEL MEMBERS HIDDEN FROM VIEW (TYP.)

POWER SHEET NOTES

- ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED FOR ALL ELECTRICAL EQUIPMENT TO PERMIT READY AND SAFE OPERATION AND MAINTENANCE. (NEC 110.26)
- ELECTRICAL WORK HAS BEEN SHOWN BASED ON EXISTING FIELD OBSERVATIONS.
- ALL 15 AND 20 AMPERE, 125 AND 250 VOLT NONLOCKING TYPE RECEPTACLES SHALL BE TAMPER RESISTANT TYPE.
- COORDINATE LOCATION OF RECEPTACLES WITH OWNER.
- ALL WIRES AT OPEN CEILING ARE TO BE CONCEALED AND INSTALLED ALONG THE STRUCTURAL BEAMS IN A NEAT WAY AND HIDDEN AS MUCH AS POSSIBLE.
- ALL RECEPTACLE PLATES TO HAVE LABELS INDICATING PANELS AND CIRCUIT NUMBER. PROVIDE LAMINATED TAG FOR EACH PLATE. VERIFY WITH OWNER FOR APPROVAL.
- ALL RECEPTACLE AND DATA OUTLET FACEPLATE SHALL MATCH THE WALL COLOR.
- SERIES RATING IS NOT ALLOWED. SHARED NEUTRALS ARE NOT ALLOWED.
- IC SHALL MEET WITH THE GENERAL CONTRACTOR, OWNER, AND OWNERS LOW VOLTAGE CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE EMPTY 1" CONDUIT STUB UP FOR DATA AS NOTED. INSTALL PULL STRING IN CONDUIT. COORDINATE ALL WORK WITH OWNER SUB CONTRACTOR.

KEYNOTES

- REMOVE ALL LIGHT FIXTURES IN THIS ROOM ALONG WITH ASSOCIATED SWITCHES, BOXES, CONDUCTORS, AND CONDUIT COMPLETE BACK TO SOURCE.
- REMOVE THIS RECEPTACLE ALONG WITH ASSOCIATED BOXES, CONDUCTORS, AND CONDUIT COMPLETE BACK TO SOURCE.
- REMOVE THIS LOW VOLTAGE DEVICES INCLUDING, BUT NOT LIMITED TO: TELEPHONE, DATA, CATV, FIRE ALARM, CLOCKS, BELLS, SECURITY, CABLING, ETC. COMPLETE BACK TO SOURCE.
- EXISTING TO REMAIN. PROTECT DURING CONSTRUCTION.
- DISCONNECT AND RELOCATE THIS SPEAKER. PROVIDE CONDUIT AND WIRING AS NEEDED. PROTECT DURING CONSTRUCTION.
- MECHANICAL EQUIPMENT DISCONNECT, REMOVE AND RELOCATE ALL CONDUCTORS, CONDUITS, AND DISCONNECTS ASSOCIATED WITH THE MECHANICAL EQUIPMENT BEING REMOVED. REUSE THE SAME CIRCUIT FOR NEW EQUIPMENT. PROVIDE NEW CONDUIT, CONDUIT, AND DISCONNECT AS REQUIRED. VERIFY EXISTING CIRCUITRY IN FIELD. COORDINATE WITH THE MECHANICAL AND GENERAL CONTRACTORS.
- MECHANICAL EQUIPMENT EXISTING UNIT TO BE RELOCATED. DISCONNECT AND REMOVE ALL CONDUCTORS, CONDUITS, AND DISCONNECTS ASSOCIATED WITH THE MECHANICAL EQUIPMENT. VERIFY EXISTING CIRCUITRY IN FIELD. PROVIDE NEW WIRING, CONDUIT AND DISCONNECT AS NEEDED. COORDINATE WITH THE MECHANICAL AND GENERAL CONTRACTORS.
- CONNECT NEW LIGHT FIXTURES AND LIGHTING CONTROLS TO EXISTING BRANCH CIRCUIT PREVIOUSLY SERVING LIGHTING FIXTURES IN THIS ROOM VIA (1) 3/4" CONDUIT WITH 2#12 AWG AND #12 GND. VERIFY EXISTING CIRCUITRY IN FIELD.
- PROVIDE NEW EXIT LIGHT FIXTURE. INSTALL NEW CONDUIT AND WIRING TO THE NEAREST UN-SWITCHED LIGHT CIRCUIT.
- PROVIDE NEW EMERGENCY BACKUP LIGHT FIXTURE. INSTALL NEW CONDUIT AND WIRING TO THE NEAREST UN-SWITCHED LIGHT CIRCUIT.
- ELECTRIC WATER COOLER (EWC) IS TO BE CONNECTED TO A GFCI BREAKER. INSTALL 20-AMP DUPLEX RECEPTACLE INSIDE THE EWC UNIT. COORDINATE WORK WITH PC. SEE DETAIL 6/E2.0. PROVIDE SEPARATE NEUTRAL AS REQUIRED.
- EXHAUST FAN: LIGHT SWITCH OPERATES BOTH THE LIGHT AND THE EXHAUST FAN. PROVIDE AND INSTALL 20 AMP SINGLE POLE MOTOR RATED SWITCH WITH ENCLOSURE.
- PROVIDE AND INSTALL 30 AMP, 2P, 3W, 250VOLT, N1, HEAVY DUTY, FUSED DISCONNECT FUSE PER EQUIPMENT NAMEPLATE.
- COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS, MICROWAVE BRACKET, AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
- INSTALL NEW FIRE ALARM DEVICE. E.C. TO CONNECT TO EXISTING FIRE ALARM PANEL AND ADD EQUIPMENT AND PROGRAMMING AS NEEDED. ALL NEW WORK SHOULD BE TESTED AND A LETTER OF CERTIFICATION PROVIDED TO FIRE MARSHALL AND OWNER. VERIFY EXISTING EQUIPMENT.
- PROVIDE NEW EGRESS LIGHT FIXTURE. INSTALL NEW CONDUIT AND WIRING TO THE EXIT LIGHT.

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PATHWAY BETWEEN FIRE ALARM DEVICES AND NAC PANEL, AND FROM NAC PANEL TO MAIN FIRE ALARM CONTROL PANEL.



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CEES LICENSE NUMBER (NC) F-0238
CEES LICENSE NUMBER (VA) 11059277
PROJECT NO. 4625
DRAWN GE
APPROVED CRS



RENOVATIONS TO
TACH Floyd Elementary
531 OAK HILL RD SW
FLOYD, VA 24091

REVISIONS

DATE	REVISION NUMBER	DESCRIPTION

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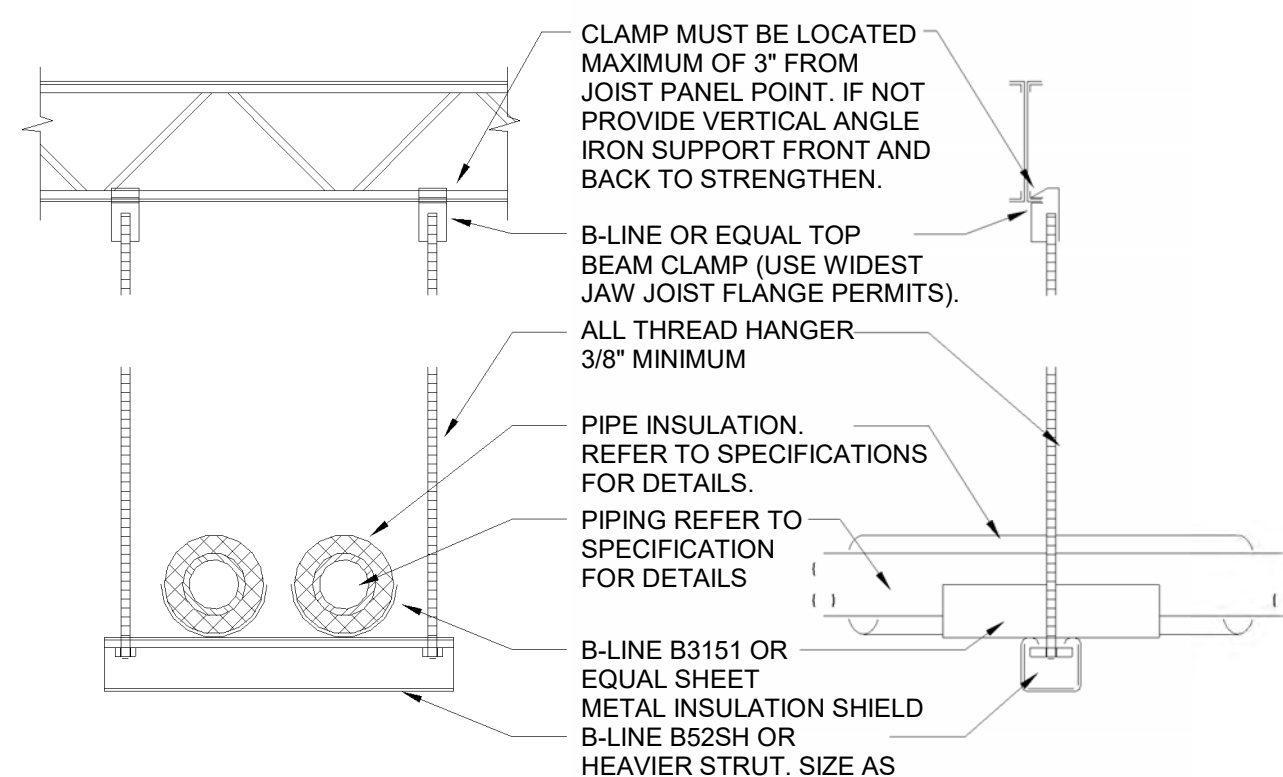
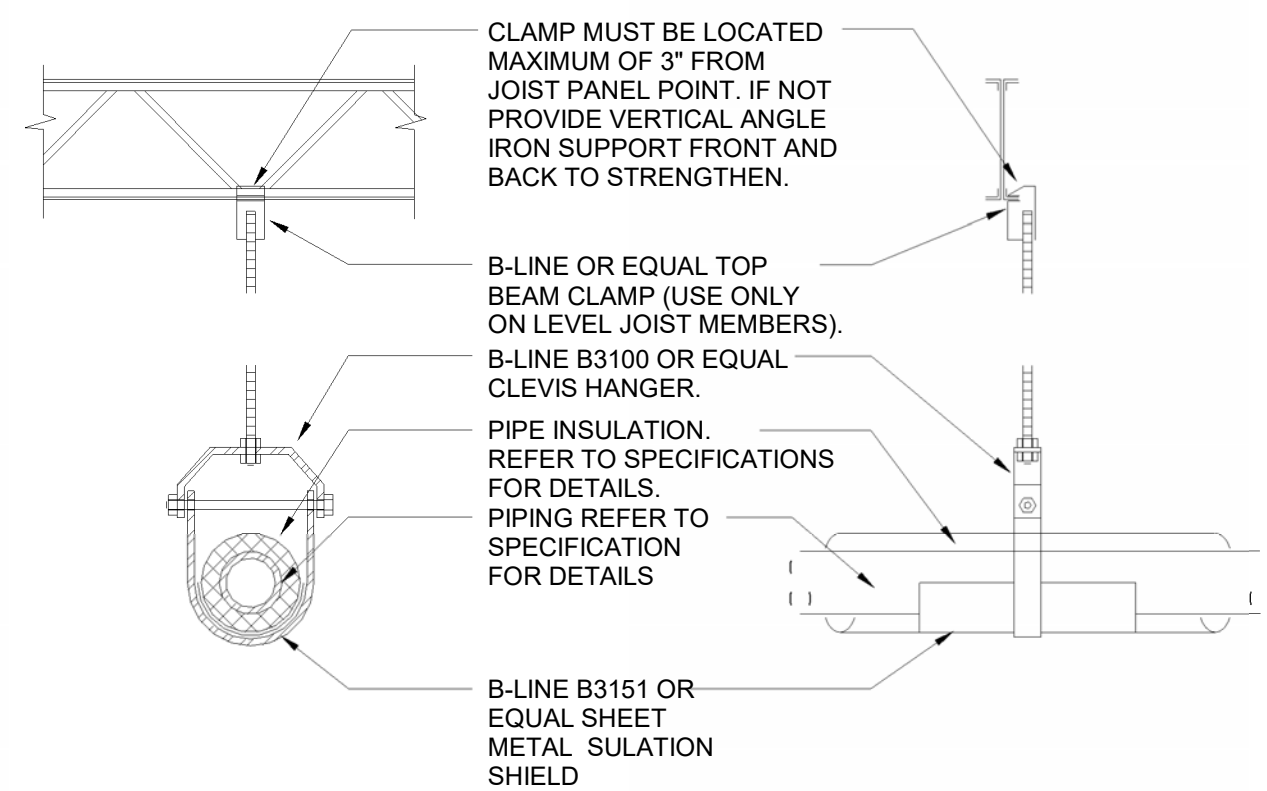
PROJECT STATUS: CONSTRUCTION DOCUMENTS

REVISION NO (IF ANY): REVISION DATE:

PROJECT NO: 2025-119 CURRENT DATE: 03/11/2026

DRAWING NAME:

ELECTRICAL PLANS
E1.0



- NOTES:
- PIPE HANGER SPACING SHALL BE IN ACCORDANCE WITH THE CURRENT STATE MECHANICAL CODE.
 - PRIME OR PAINT ALL HANGERS, PRIME AND PAINT ALL PIPE WELDS AND OTHER ITEMS SUBJECT TO RUSTING.
 - PROVIDE UNISTRUT OR ANGLE IRON BRIDGING SPANNING MULTIPLE BAR JOIST AS REQUIRED.

1 DETAIL - PIPE HANGER (P)
P001 NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

- WC1 - FLOOR MOUNTED TANK TYPE WATER CLOSET, VITREOUS CHINA WITH ELONGATED OPEN FRONT SEAT WITH SELF SUSTAINING CHECK HINGES. ADA HEIGHT OF 17" TO RIM. ELONGATED BOWL. P.C TO ENSURE THE TRIP LEVER IS ON THE SIDE OF THE FIXTURE CLOSEST TO THE ADJACENT LAVATORY. FIXTURE: ZURN #Z2551-K (1.6 GPF) SEAT: CHURCH COMMERCIAL #Z958SCT
- L1 - RECTANGULAR WALL MOUNTED SINK, VITREOUS CHINA WITH FRONT OVERFLOW DRAIN AND FAUCET HOLES ON 4" CENTERS. PROVIDE COMPLETE WITH OPEN GRID STRAINER, EXPOSED SUPPORT BRACKET, 0.5 GPM MANJAL SINGLE HANDLE FAUCET AND TRAP AND SUPPLY SCALD GUARDS. FIXTURE: ZURN #Z7440-XL-FC FAUCET: ZURN #Z7440-XL-FC
- EWC - SINGLE ADA WATER COOLER WITH INTEGRAL WATER BOTTLE FILLER AND FRONT PUSH BUTTON ACTIVATION. 8GPH OF 50 DEG WATER. 115/1PH. FIXTURE: OASIS #P85BF
- MXV1 - ASSE 1070 POINT OF USE MIXING VALVE, SET TO 110 DEG F OUTLET TEMPERATURE. FIXTURE: ZURN #ZV3870XLT
- FCO - ADJUSTABLE PVC FLOOR CLEANOUT WITH NICKEL COVER AND VANDAL PROOF SCREWS, FITS INSIDE 4" PVC PIPE. FIXTURE: SIOUX CHIEF #822-C4-P-NR-V
- SK1 - SINGLE BOWL, STAINLESS STEEL SINK WITH ADA DEPTH OF 5". SINGLE GOOSENECK FAUCET ON 8" CENTERS WITH 1.0 GPM LAMINAR FLOW AERATOR. PROVIDE WITH SOUND DEADENING COATING, TRAP AND SUPPLY SCALD GUARDS AND BASKET STRAINER. FIXTURE: ELKAY # LRADO1918 (HOLE DRILLING CONFIGURATION #3) FAUCET: ZURN #Z87191-XL-21M
- SK2 - SINGLE BOWL, STAINLESS STEEL SINK WITH ADA DEPTH OF 5". SINGLE HOLE SWIVEL FAUCET WITH PULL DOWN SPRAY HANDLE, 1.0GPM AERATOR. PROVIDE WITH SOUND DEADENING COATING, TRAP AND SUPPLY SCALD GUARDS AND BASKET STRAINER. FIXTURE: ELKAY # LRADO1918 (HOLE DRILLING CONFIGURATION #1) FAUCET: MOEN "ARBOR" #7594
- IMB - PLASTIC ICE MAKER BOX WITH QUARTER TURN VALVE AND INTEGRAL HAMMER ARRESTOR. PROVIDE COMPLETE WITH WALL FRAME. FIXTURE: WATER-ITTE CORPORATION #AB9700HA
- MS1 - 24x24x10 MOLDED MOP SERVICE BASIN WITH STAINLESS STEEL WALL GUARDS, VINYL BUMPER GUARDS, HOSE AND HOSE BRACKET, MOP HANGER AND PVC DRAIN. FIXTURE: ZURN #Z 1996-24-AW-BS-BV-HH-MH-NHG FAUCET: ZURN #Z841M2-RC

NOTE: WC1, L1, L1 FAUCET, EWC, SK1, SK1 FAUCET, SK2, & IMB ARE OWNER PREFERRED FIXTURES. DO NOT SUBSTITUTE WITHOUT OWNER CONSENT.

SEWER CAMERA AND SMOKE TEST

PRIOR TO SAWCUTTING THE FLOOR, THE P.C. SHALL CAMERA THE EXISTING SEWER LINE, ENTERING AT THE EXPOSED CLEANOUT PLUG AT THE EXISTING UTILITY SINK. THIS SHALL BE DONE TO LOCATE THE UNDERGROUND PIPING TO AVOID UN NECESSARY FLOOR REPAIR.

AFTER ALL NEW UNDERGROUND PIPING AND FIXTURES ARE INSTALLED, THE PLUMBING CONTRACTOR SHALL PERFORM A SECOND UNDERGROUND CAMERA OF THE PIPING.

THE PLUMBING CONTRACTOR SHALL FLUSH THE SYSTEM WITH WATER AND THEN CAMERA THE LINE TO IDENTIFY ANY CONSTRUCTION DEBRIS STUCK IN THE PIPES OR LOW SPOTS IN THE PIPING. ALL DEFICIENCIES SHOULD BE ADDRESSED TO ENSURE A FULLY FUNCTIONING SYSTEM.

THE CAMERA SCOPE SHALL EXTEND A MINIMUM OF 60 FEET BEYOND THE PROJECT WORK AREA TO ENSURE THE PIPING SYSTEM IS IN GOOD WORKING ORDER. ANY PIPE ISSUES BEYOND THE SCOPE AREA SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL REPRESENTATIVE AND THE G.C. FOR FURTHER DISCUSSION AND ADDITIONAL SERVICES REPAIRS.

THE SEWER CAMERA SHALL HAVE RECORDED VIDEO CAPABILITY. THIS VIDEO FILES SHOULD BE SHARED WITH THE ENGINEER AND BUILDING OWNER/AND/OR UPON REQUEST.

A SMOKE VENT TEST SHOULD ALSO BE PERFORMED TO MAKE SURE NO OPEN SEWER PIPES REMAIN IN THE SPACE OR ABOVE THE CEILING.

HOT WATER RE-CIRCULATION NOTES

A HOT WATER RE-CIRCULATION LOOP AND PUMP IS NOT REQUIRED IN THIS PROJECT AS THE DEVELOPED LENGTH OF HOT WATER PIPING FROM THE WATER HEATER TO THE FURTHEST FIXTURE, DOES NOT EXCEED 90 FT. PER VAPC 607.2

AS-BUILT DRAWING NOTE

P.C. SHALL MAINTAIN A SET OF AS-BUILT DRAWINGS THROUGHOUT THE PROJECT AND LEAVE A PAPER COPY OF THE AS-BUILT PLANS WITH THE SCHOOL SYSTEM PROJECT MANAGER. P.C. SHALL ALSO PROVIDE A DIGITAL COPY OF THESE AS-BUILTS TO THE THE ENGINEER OF RECORD. THIS IS BEING REQUESTED FOR ANY FUTURE ADDITIONS OR RE-CONFIGURATIONS.

FIXTURE RUN OUT SIZES

CW = COLD WATER
HW = HOT WATER (TEMP) DEG F

THE FOLLOWING FIXTURES SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR.

- WC1 - 1/2" CW
- L1 - 1/2" CW & 1/2" HW (110)
- SK1 - 1/2" CW & 1/2" HW (110)
- SK2 - 1/2" CW & 1/2" HW (110)
- MS1 - 1/2" CW & 1/2" HW (120)
- EWC - 1/2" CW
- MXV1 - 1/2" CW, 1/2" HW (120) & 1/2" HW (110)
- IMB - 1/2" CW

PLUMBING SPECIFICATIONS

- PLUMBING CONTRACT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FEES, AND PERMITS REQUIRED FOR AND REASONABLY INCIDENTAL TO THE EXECUTION OF THE PLUMBING WORK.
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH VIRGINIA STATE BUILDING CODE, PLUMBING, ENERGY, AND LOCAL BUILDING CODES.
- THE PLUMBING CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE PLUMBING PLANS, SCHEDULES AND DETAILS PRIOR TO INSTALLATION OF THE PLUMBING SYSTEM AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE OWNER, ARCHITECT AND/OR ENGINEER FOR RESOLUTION. FIELD VERIFY ALL EXISTING LINE SIZES AND LOCATION PRIOR TO BIDDING.
- IT WILL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO INSURE THAT ITEMS TO BE FURNISHED UNDER THIS CONTRACT WILL FIT THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS.
- THE PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER TRADES PRIOR TO THE INSTALLATION OF ANY OF HIS PIPING OR EQUIPMENT.
- MEASUREMENTS - BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK, THE PLUMBING CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND LINE SIZES AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SAME. HE SHALL ALSO BE RESPONSIBLE FOR VERIFYING THE INVERT ELEVATION OF THE EXISTING SANITARY PIPING PRIOR TO CONSTRUCTION.
- ALL MATERIALS USED SHALL BE NEW UNLESS OTHERWISE SHOWN OR CALLED FOR, AND SHALL BE FURNISHED IN ACCORDANCE WITH STANDARD SPECIFICATION OF THE AMERICAN SOCIETY FOR TESTING MATERIALS, THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS, THE AMERICAN CONCRETE INSTITUTE, AND OTHER GUIDE SPECIFICATIONS.
- DIAGRAMS AND COORDINATION - THE DRAWINGS ARE DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. THE DRAWINGS INDICATE OFFSETS REQUIRED, BUT BY NO MEANS INDICATE ALL SUCH SITUATIONS.
- INSPECTIONS - THE CONTRACTOR MUST AT ALL TIMES LEND ANY ASSISTANCE NECESSARY FOR ENGINEERS OR THEIR AUTHORIZED REPRESENTATIVE TO MAKE TESTS, INSPECTIONS, ETC.
- BLOWING OUT, CLEANING AND TESTING SYSTEMS: ALL PIPING AND EQUIPMENT SHALL BE BLOWN OUT UNDER PRESSURE AND CLEANED OF FOREIGN MATTER BEFORE THE SYSTEM IS PUT INTO OPERATION. EQUIPMENT SHALL NOT BE CONNECTED TO PIPING UNTIL IT HAS BEEN BLOWN OUT AND CLEANED. PRESSURE TEST ALL NEW WATER PIPING SYSTEM. ANY DEFECTS MADE EVIDENT BY THE TEST SHALL BE CORRECTED BY THIS CONTRACTOR WITHOUT EXTRA COST TO THE OWNER. DISINFECT WATER PIPING IN ACCORDANCE WITH VA PLUMBING CODE, SECTION 910.1.
- GUARANTEE - CONTRACTOR SHALL GUARANTEE HIS MATERIAL, EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF 12 MONTHS AFTER DATE OF FINAL ACCEPTANCE BY ENGINEERS AND OWNERS (PARTS AND LABOR). ALL GUARANTEE FAILURE SHALL BE CORRECTED OR REPLACED BY CONTRACTOR AS SOON AS POSSIBLE AFTER NOTIFICATION OF SUCH FAILURE.
- SANITARY WASTE & VENT PIPING - PVC DWV WASTE AND VENT PIPE AND FITTINGS. SOLID WALL PVC CONFORMING TO ASTM D2865 ONLY. NO FOAM CORE PIPING. PROVIDE APPROPRIATE TRANSITION COUPLINGS FROM EXISTING CAST IRON PIPING TO NEW PVC PIPING.
- ABOVE GROUND WATER PIPING - TYPE L HARD COPPER WATER PIPING CONFORMING TO ASTM-B-88. WROUGHT-COPPER FITTINGS CONFORMING TO ASTM-B-16-23.
- UNDERGROUND WATER PIPING - TYPE K COPPER.
- INSULATION - PROVIDE INSULATION OF ALL NEW PIPING AS SHOWN; ALL INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS BY AN APPROVED INSULATION SUBCONTRACTOR. TEST ALL PIPING PRIOR TO COVERING. PIPE INSULATION ABOVE CEILING SHALL BE 1" FIBERGLASS WITH PAPER COVERING. 1/2" ARMAFLEX MAY BE USED IN WALLS. ALL INSULATION SHALL MEET THE ASTM PLENUM RATING WITH FLAME SPREAD INDEX OF 20 AND SMOKE DEVELOPED INDEX OF 50. ANY PIPING EXPOSED IN THE SPACE SHALL BE WRAPPED IN A WHITE PVC JACKET.
- PROVIDE BALL VALVES TO ISOLATE ALL GROUPS OF FIXTURES AND AS SHOWN ON THE PLANS TO FACILITATE FUTURE SERVICING.
- PROVIDE DIELECTRIC UNIONS OR FLANGES TO ISOLATE DISSIMILAR METALS.
- HORIZONTAL DRAINAGE PIPING 3" AND LARGER SHALL HAVE A MINIMUM FALL OF 1/8" PER FOOT AND PIPING 2" AND SMALLER SHALL HAVE A MINIMUM FALL OF 1/4" PER FOOT. FIELD VERIFY INVERTS PRIOR TO CONSTRUCTION.
- CLEANOUTS SHALL BE PROVIDED IN ALL SANITARY PIPING AS SHOWN OR INDICATED BY THE AHJ.
- WCO SHALL HAVE STAINLESS STEEL COVERS.
- ALL VENT PIPING SHALL SLOPE UP TO THE DISCHARGE POINT.
- MAINTAIN ALL FIRE RATINGS. SUBMIT UL ASSEMBLY TO LOCAL FIRE MARSHAL FOR APPROVAL.
- G.C. SHALL BE RESPONSIBLE FOR ALL FLOOR REPAIR, SAWCUTTING, TRENCHING AND BACKFILL SHALL BE BY P.C.

PLUMBING LEGEND

- CW - COLD WATER
- HW - HOT WATER (TEMP) DEG F
- SS - SANITARY SEWER
- V - VENT
- VTR - VENT THROUGH ROOF
- WC - WATER CLOSET
- L - LAVATORY
- MS - JANITORS MOP SINK
- SK - STAINLESS STEEL SINK
- EWC - ELECTRIC WATER COOLER
- WHA - WATER HAMMER ARRESTOR
- IMB - ICE MAKER BOX
- AD - ACCESS DOOR OR PANEL
- WH - ELECTRIC WATER HEATER
- MXV - MIXING VALVE
- FCO - FLOOR CLEANOUT
- CO - EXPOSED CLEANOUT PLUG
- BV - BALL VALVE
- CV - CHECK VALVE
- PC - PLUMBING CONTRACTOR
- GC - GENERAL CONTRACTOR
- MC - MECHANICAL CONTRACTOR
- EC - ELECTRICAL CONTRACTOR
- BFF - BELOW FINISHED FLOOR
- AFF - ABOVE FINISHED FLOOR
- FFE - FINISHED FLOOR ELEVATION
- UG - UNGERGROUND
- (E) - EXISTING ITEM
- (R) - RELOCATED EXISTING ITEM
- POINT OF CONNECTION TO EXISTING
- ITEMS BEING DEMOLISHED/REMOVED



CONSULTANT ENGINEERING SERVICE, INC. PLUMBING • MECHANICAL • ELECTRICAL
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CES LICENSE NUMBER (NC)	F-0238
CES LICENSE NUMBER (VA)	11059277
PROJECT NO.	4625
DRAWN	DMG
APPROVED	CRS



RENOVATIONS TO TACH Floyd Elementary

531 OAK HILL DR SW FLOID, VA 24091

REVISIONS	Revision Number	DESCRIPTION
DATE		

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PROJECT STATUS: CONSTRUCTION DOCUMENTS

REVISION NO (P-INITIALS) REVISION DATE:

PROJECT NO. CURRENT DATE: 2025-119 03/11/2026

DRAWING NAME:

PLUMBING SHEET INDEX

- P001 PLUMBING COVER SHEET
- P101 PLUMBING PLANS
- P201 PLUMBING SECTIONS & RISER DIAGRAMS

PLUMBING COVER SHEET

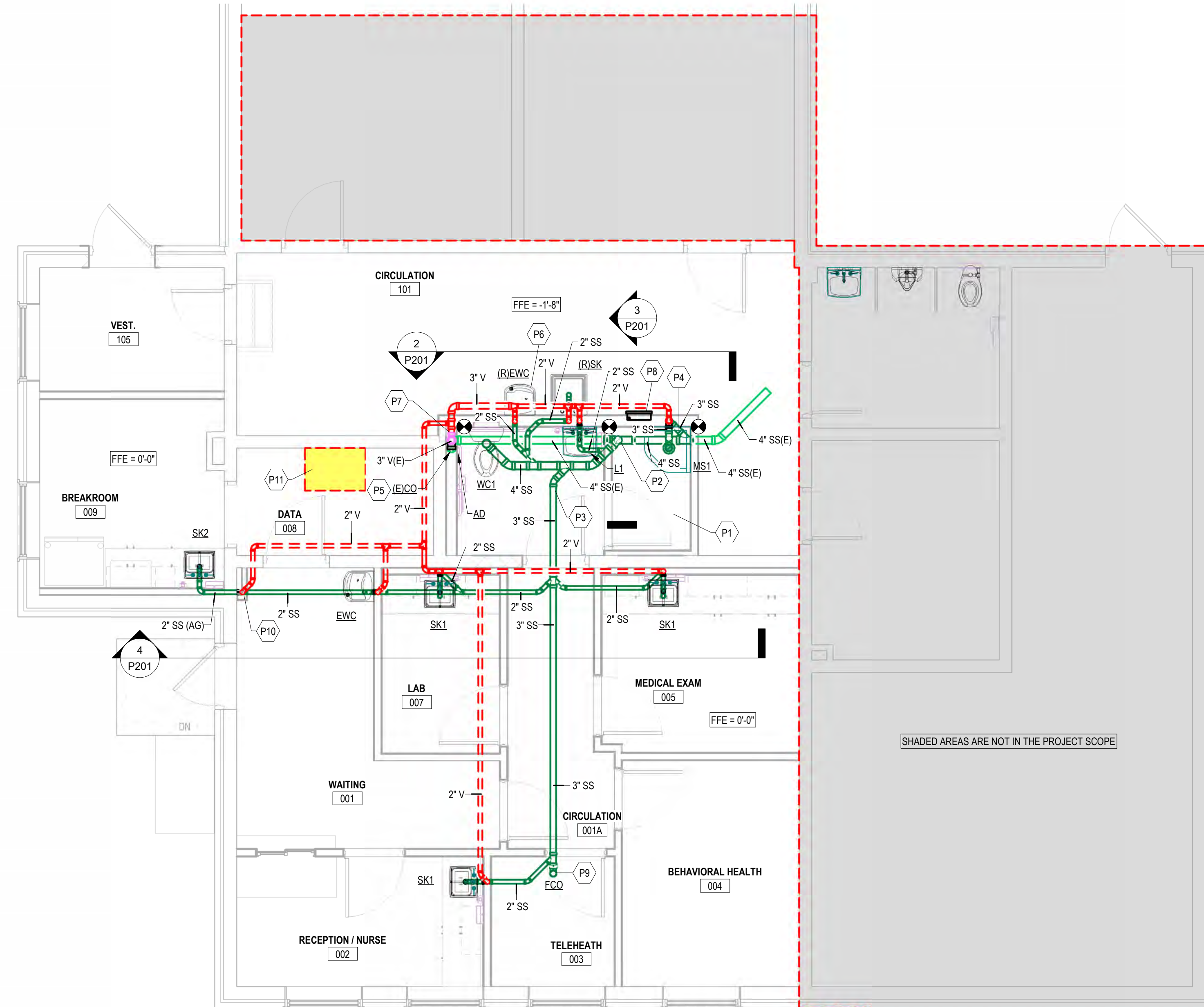
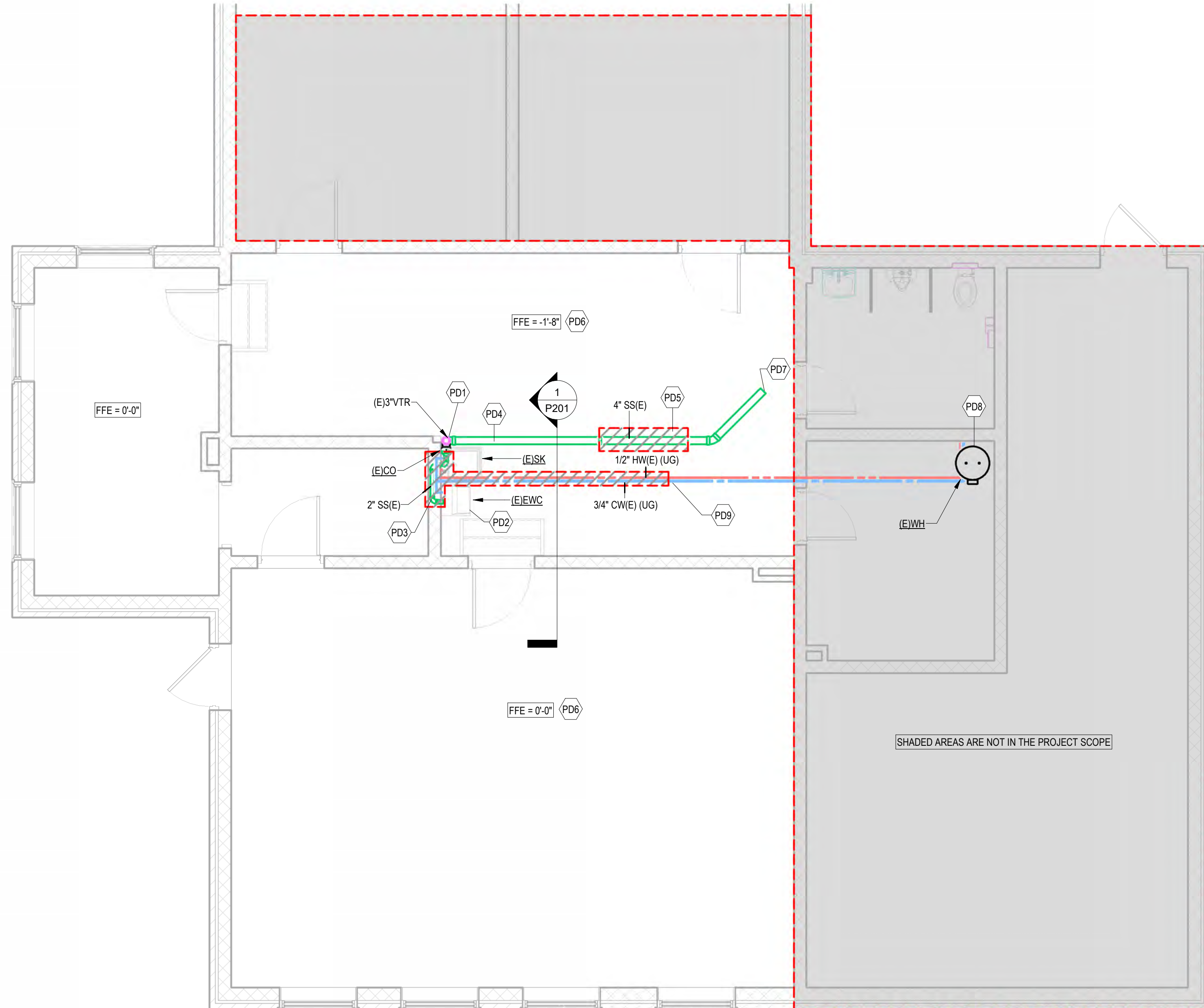
DRAWING NO. **P001**

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CES LICENSE NUMBER (NC)	F-0238
CES LICENSE NUMBER (VA)	11059277
PROJECT NO.	4625
DRAWN BY	DMG
APPROVED	CRS



RENOVATIONS TO
TACH Floyd Elementary
531 OAK HILL DR SW
FLOYD, VA 24091

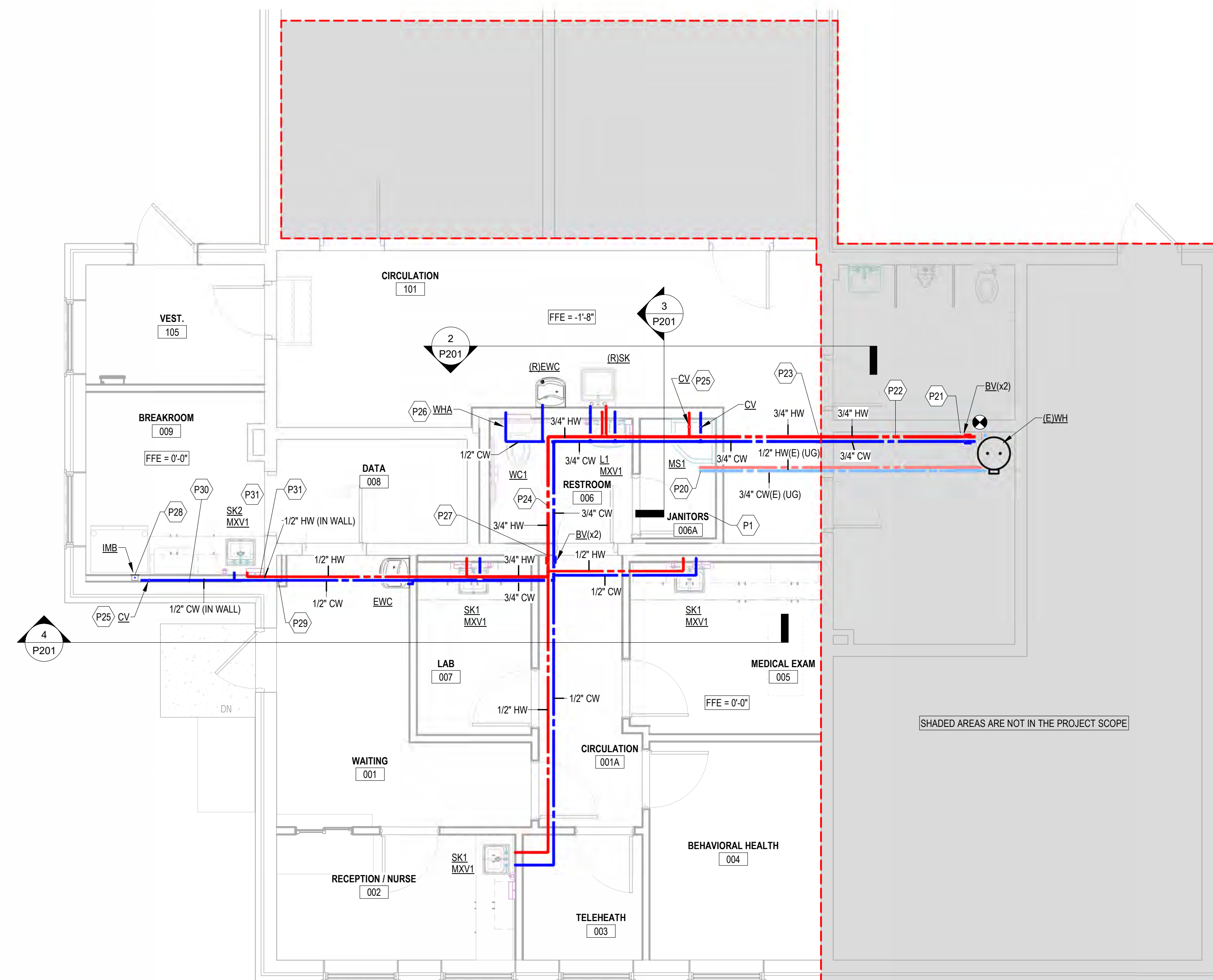


1 DEMOLITION PLAN
P101 1/4" = 1'-0"

2 NEW WORK - WASTE & VENT
P101 1/4" = 1'-0"

Key Value	Keynote Text
PD1	EXISTING 3"V RISER EXTENDED FROM 4"SS UP FROM BELOW SLAB. THIS VENT, SEWER RISER AND EXPOSED CLEANOUT TO REMAIN. REFER TO SECTION 1P201 FOR ADDITIONAL DEMOLITION NOTES AT THIS LOCATION.
PD2	THIS EXISTING SINK AND WATER COOLER TO BE REMOVED AND RE-LOCATED TO NEW AREA SHOWN ON NEW PLANS. P.C. TO CAREFULLY REMOVE FIXTURES AND FAUCET FOR RE-USE.
PD3	CUT AND CAP ALL EXISTING ROUGH-INS FOR SINK AND WATER COOLER IN WALL.
PD4	P.C. TO CAMERA THE SEWER LINE AT THE CLEANOUT DESCRIBED IN KEYNOTE "PD1" TO DETERMINE THE EXACT LOCATION OF THIS UNDERGROUND 4" LINE. ROUTING SHOWN IS ASSUMED.
PD5	P.C. TO SAW CUT FLOOR AT THIS APPROXIMATE LOCATION TO EXPOSE THE EXISTING SEWER LINE BELOW. SEE NEW WORK PLAN FOR RE-CONNECTIONS.
PD6	P.C. TO NOTE THE FLOOR ELEVATION DIFFERENCES WITHIN THIS PROJECT AREA.
PD7	SEWER LINE ASSUMED ROUTING TO ADJACENT RESTROOM.
PD8	EXISTING 50 GALLON ELECTRIC WATER HEATER IN STORAGE ROOM ADJACENT TO PROJECT AREA. THIS IS TO REMAIN AND BE RE-USED.
PD9	ASSUMED UNDERGROUND ROUTING OF EXISTING WATER SUPPLIES TO (E)SK & (E)EWC. P.C. TO DIG DOWN TO EXPOSE THESE PIPES. THEN REMOVE OR ABANDON PIPING DOWNSTREAM OF CUT TO EXISTING FIXTURES. CAP AND ABANDON PIPING BELOW SLAB.

Key Value	Keynote Text
P1	THE FLOOR FOR THIS NEW RESTROOM AND JANITORS CLOSET WILL BE BUILT UP AND IN-FILLED BY G.C. WITH CONCRETE FROM THE -1'-8" FFE MARK ADJACENT TO THE NEW FFE AT 0'-0".
P2	EXTEND A NEW 4"SS BRANCH UP FROM EXISTING 4"SS MAIN BELOW LOW FLOOR. THIS NEW 4"SS BRANCH SHALL TURN HORIZONTAL AND ROUTE AS CLOSE TO THE EXISTING FINISHED FLOOR ELEVATION AS POSSIBLE TO ALLOW FOR FIXTURE CONNECTIONS IN THE NEW RAISED RESTROOM. REFER TO DETAIL 2P201 FOR PIPE ROUTING CLARIFICATION.
P3	ALL NEW SANITARY SEWER PIPING THAT SERVES THE NEW RESTROOM, JANITORS CLOSET AND NEW CLINIC SINKS WILL BE IN SLAB BELOW THE 0'-0" FINISHED FLOOR ELEVATION.
P4	P.C. TO SAW CUT FLOOR AT THIS APPROXIMATE LOCATION TO EXPOSE THE EXISTING SEWER LINE TO BRANCH OVER TO NEW MOP SINK "MS1". REFER TO SECTION 2P201.
P5	EXISTING EXPOSED CLEANOUT AND 3"VENT RISER TO REMAIN AND BE ENCLOSED IN A NEW WALL. P.C. TO INSTALL AN ACCESS DOOR IN NEW WALL TO ALLOW FOR CLEANOUT TO BE USED.
P6	REFER TO SECTION CUTS 2P201 & 3P201 AS WELL AS THE WASTE AND VENT RISER DIAGRAM TO UNDERSTAND THE ELEVATION DIFFERENCES OF THE ROUGH-INS FROM THE NEW RESTROOM FIXTURES AND THE RELOCATED WATER COOLER AND SINK.
P7	THE ALL NEW VENTS TO EXISTING 3"V RISER UP THROUGH ROOF.
P8	RELOCATED ELECTRIC UNIT HEATER IN THE WALL SHOWN FOR REFERENCE ONLY.
P9	PROVIDE A NEW FLOOR CLEANOUT ON NEW BRANCH.
P10	TURN THIS 2"SS LINE UP FROM BELOW SLAB INSIDE NEW CORNER BOX OUT THEN EXTEND A 2"SS BRANCH ABOVE GROUND. INSIDE NEW FURRED WALL TO SK1 IN BREAK ROOM. REFER TO SECTION 4P201.
P11	THIS YELLOW SHADED AREA IS THE APPROXIMATE LOCATION OF THE EXISTING DATA RACK IN THE IT CLOSET. DO NOT ROUTE ANY VENT PIPING OVER TOP OF THIS DATA RACK.
P20	THE EXISTING UNDERSLAB HOT AND COLD WATER SUPPLIES TO THE REMOVED SINK AND WATER COOLER ARE TO BE CAPPED BELOW SLAB AT THIS APPROXIMATE LOCATION. THE UPSTREAM PIPING WILL REMAIN IN SERVICE AS IT IS BELIEVED THIS SERVES THE EXISTING ADJACENT RESTROOM THAT IS NOT IN SCOPE.
P21	P.C. TO TAP INTO THE EXISTING HOT AND COLD WATER LINES AT THE EXISTING WATER HEATER AND ROUTE A NEW 3/4" CW AND 3/4" HW SUPPLY LINE TO THE NEW WORK AREA. PROVIDE ISOLATION BALL VALVES IN EACH PIPE.
P22	PIPES IN THIS STORAGE ROOM TO BE ROUTED ABOVE CEILING AND THROUGH WALL TO SPACE WITH HIGHER CEILING.
P23	TURN PIPES UP, EXPOSED ALONG THE FACE OF WALL FROM THE LOWER STORAGE ROOM AREA TO ABOVE THE HIGHER CEILING IN THIS ART ROOM SPACE. WRAP PIPES IN WHITE PVC JACKET WHERE EXPOSED.
P24	ALL NEW HOT AND COLD WATER PIPING SHALL BE ROUTED ABOVE CEILING AND INSULATED WITH 1" FIBERGLASS INSULATION AND FOIL JACKET.
P25	PROVIDE AN ASSE 1024 COMPLIANT CHECK VALVE ON HOT AND COLD WATER BRANCH TO JANITORS MOP SINK AND COLD WATER BRANCH TO ICE MAKER BOX. FOR CHECK VALVE AT ICE MAKER, PROVIDE AN ACCESS DOOR IN THE WALL.
P26	PROVIDE WATER HAMMER ARRESTOR ON BRANCH TO WATER CLOSET.
P27	PROVIDE ISOLATION VALVES ON PIPING BRANCHES TO ISOLATE THE CLINIC AREA SINKS.
P28	ICE MAKER BOX INSTALLED AT 60" AFF. ENSURE BOX IS CONFIGURED FOR BOTTOM INLET WITH INTEGRAL HAMMER ARRESTOR.
P29	DROP 1/2" CW & 1/2" HW DOWN INSIDE SMALL BOX CHASE. THEN TURN HORIZONTALLY THROUGH EXISTING BLOCK WALL TO GET INTO THE NEW FURRED OUT WALL BEHIND THE BREAKROOM SINK.
P30	HOT AND COLD WATER PIPING ROUTED IN WALL, ABOVE GROUND TO SK1 AND MB IN BREAK ROOM.
P31	PROVIDE AN ASSE 1070 APPROVED POINT OF USE MIXING VALVE AT ALL L1, SK1 & SK2 FIXTURES. SET OUTLET TEMPERATURE TO 110 DEG F.

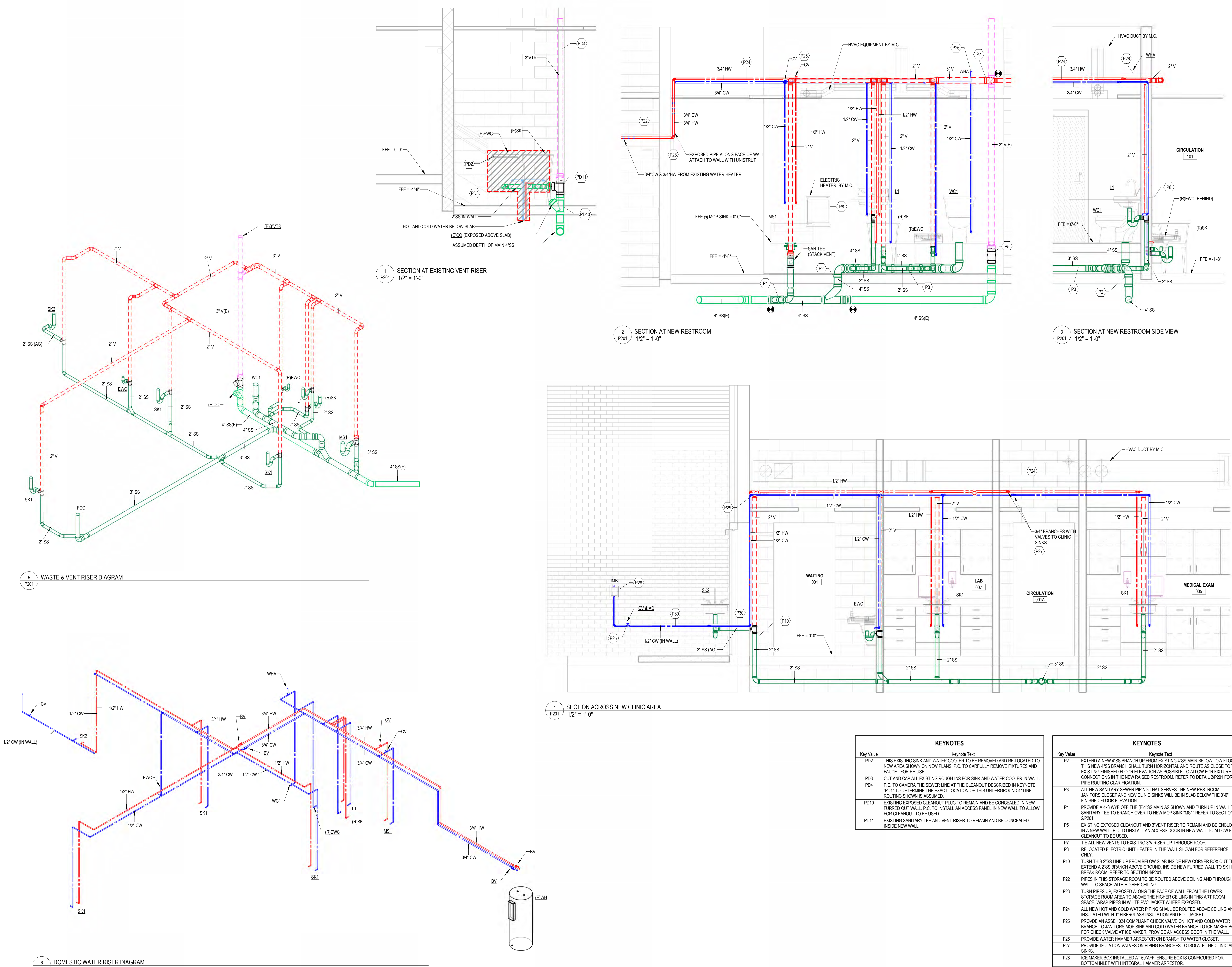


3 NEW WORK - WATER
P101 1/4" = 1'-0"

REVISIONS	Revision Number	DESCRIPTION
DATE		

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PROJECT STATUS	CONSTRUCTION DOCUMENTS
REVISION NO. (P. 101)	REVISION DATE:
PROJECT NO. 2025-119	CURRENT DATE: 03/11/2026
DRAWING NAME:	



Key Value	Keynote Text
PD2	THIS EXISTING SINK AND WATER COOLER TO BE REMOVED AND RE-LOCATED TO NEW AREA SHOWN ON NEW PLANS. P.C. TO CAREFULLY REMOVE FIXTURES AND FAUCET FOR RE-USE.
PD3	CUT AND CAP ALL EXISTING ROUGHINS FOR SINK AND WATER COOLER IN WALL. P.C. TO CAMERA THE SEWER LINE AT THE CLEANOUT DESCRIBED IN KEYNOTE #P01 TO DETERMINE THE EXACT LOCATION OF THIS UNDERGROUND 4\"/>

Key Value	Keynote Text
P2	EXTEND A NEW 4\"/>

REVISIONS	Revision Number	DESCRIPTION
DATE		

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PROJECT STATUS: CONSTRUCTION DOCUMENTS
REVISION NO. (P. JAW) REVISION DATE:
PROJECT NO.: 2025-119 CURRENT DATE: 03/11/2026
DRAWING NAME: PLUMBING SECTIONS & RISER DIAGRAMS
DRAWING NO.: **P201**