

C:\Projects\31001 FWP MT OUTDOORS\31001 Drawings - Specs\3 - Revs\20210203-15:01 FWP Montana Outdoor Remodel_MW.dwg 10/15/2021 11:55:24 AM

MONTANA FISH, WILDLIFE, & PARKS MONTANA OUTDOORS OFFICE REMODEL

FWP Project #7199172

930 CUSTER AVENUE, HELENA, MT 59602



CWG Architecture

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Architecture, Engineering & Design

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ELECTRICAL AMES ENGINEERING LLC.
HELENA, MONTANA TEL 406-458-0494 FAX 406-458-0494

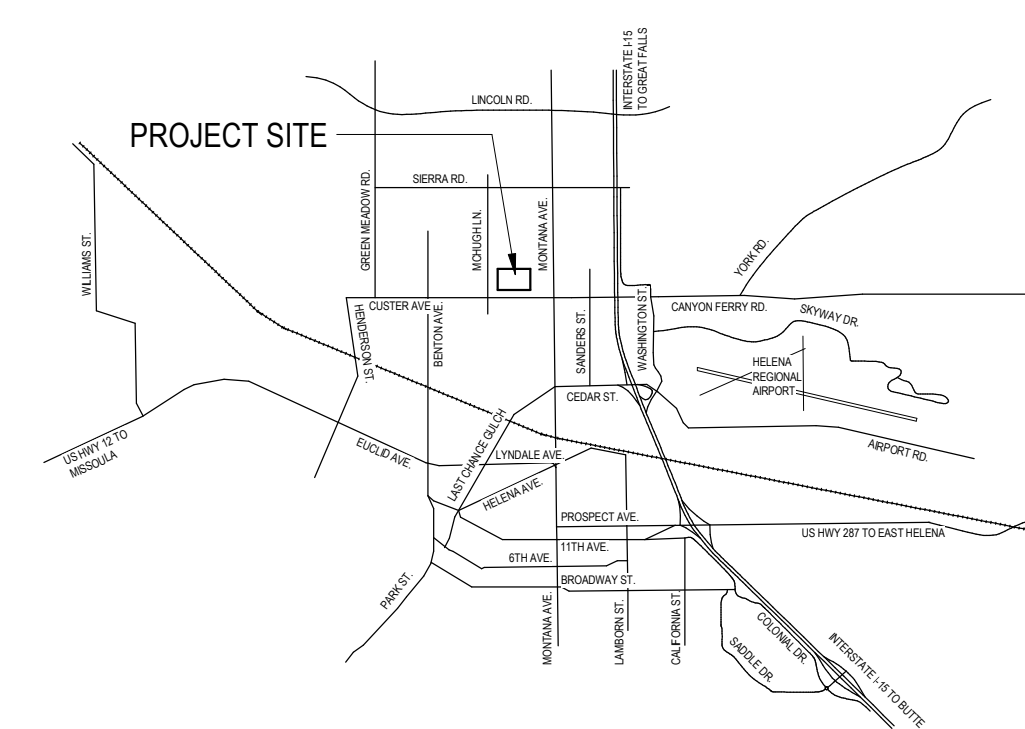


GENERAL NOTES

- THIS IS A TYPE V-B, NON-SPRINKLED BUILDING. SEE SHEET A1.1 FOR CODE REVIEW.
- DO NOT SCALE DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SIZES, QUANTITIES, & LOCATION BEFORE BEGINNING WORK.
- VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. ANY UTILITIES LOCATED ARE SHOWN APPROXIMATE AND SHOULD NOT BE USED TO DETERMINE THEIR LOCATION ON THE GROUND, AND DOES NOT RELIEVE ANY PERSON OR COMPANY OF THEIR RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES PRIOR TO ANY EXCAVATION BY CALLING UTILITIES UNDERGROUND LOCATION CENTER AT 1-800-424-5555.
- THERE ARE NO KNOWN HAZARDOUS MATERIALS STORED ON THE PREMISES AS DEFINED BY 2012 IBC
- PROJECT SHALL COMPLY WITH THE 2018 IBC, 2018 IMC, 2018 IECC, 2017 NEC, 2018 IFC, 2018 UPC
- WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATION IBC 803.13
- ELECTRONIC DRAWING FILES ARE AVAILABLE FROM THE ARCHITECT, STRUCTURAL, MECHANICAL AND ELECTRICAL ENGINEERS AT \$100.00 PER DRAWING & \$25.00 FOR PDF. DRAWINGS WILL BE STRIPPED OF ALL DATA EXCEPT FOR BASIC PLAN OR SECTION INFORMATION. A WAIVER WILL NEED TO BE SIGNED AND RECEIVED PRIOR TO RELEASE OF DRAWING FILES.
- IT IS ABSOLUTELY NECESSARY THAT ALL TRADES COORDINATE WITH EACH OTHER AND VERIFY THAT THERE ARE NO CONFLICTS IN LOCATIONS OF DUCTS, CONDUITS, SPRINKLER HEADS, DIFFUSERS, ELECTRICAL BOXES, EQUIPMENT AND OTHER ITEMS THROUGHOUT THIS PROJECT BEFORE FINAL PLACEMENT OF MATERIALS.
- REFER TO STRUCTURAL DRAWING AND SPECIFICATIONS FOR SPECIAL INSPECTION INFORMATION.

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE BUILDING DESIGN. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

VICINITY MAP

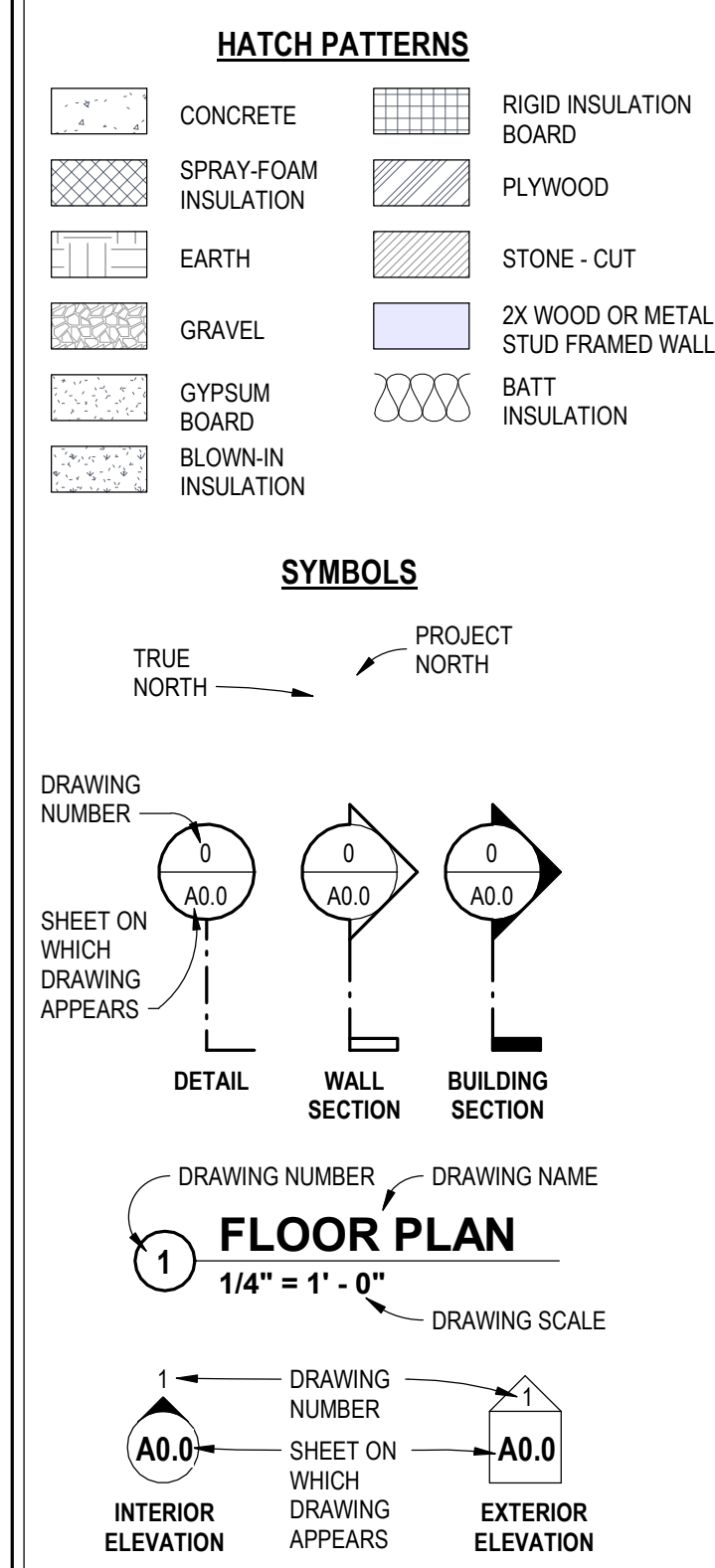


HELENA VICINITY MAP
SCALE: 1" = 20'-0"

ARCHITECTURAL ABBREVIATIONS

#	PLUS OR MINUS	GA	GALVE
*	DEGREE	GALV.	GALVANIZED
Ø	DIAMETER	GL.	GLU-LAM
⊕	CENTER LINE	GYP. BD.	GYP SUM BOARD
ACT.	ACOUSTICAL TILE	H.M.	HOLLOW METAL
ADJ.	ADJUSTABLE	HORIZ.	HORIZONTAL
A.F.F.	ABOVE FINISH FLOOR	INSUL.	INSULATION
ALT.	ALTERNATE	I & W.	ICE AND WATER SHIELD
ALUM.	ALUMINUM	MAX.	MAXIMUM
BD.	BOARD	MDF.	MEDIUM DENSITY FIBER BD.
B.O.	BOTTOM OF	MECH.	MECHANICAL
BOTT.	BOTTOM	MFR.	MANUFACTURER
BRG.	BEARING	MIN.	MINIMUM
BS.	BACKSPLASH	MISC.	MISCELLANEOUS
C.J.	CONTROL JOINT	M.O.	MASONRY OPENING
CLG.	CEILING	MTL.	METAL
CLR.	CLEAR	N.I.C.	NOT IN CONTRACT
CMU	CONCRETE MASONRY UNIT	N.T.S.	NOT TO SCALE
C.O.	CLEAN OUT	O.C.	ON CENTER
COL.	COLUMN	O.C.E.W.	ON CENTER EACH WAY
CONC.	CONCRETE	O.S.B.	ORIENTED STRAND BOARD
CONT.	CONTINUOUS	PLWD.	PLYWOOD
CPT.	CARPET	PREFIN.	PREFINISHED
C.T.	CERAMIC TILE	P.T.	PRESSURE TREATED
DBL.	DOUBLE	R.D.	ROOF DRAIN
D.F.	DRINKING FOUNTAIN	REINF.	REINFORCE (ED) (ING)
DIA.	DIAMETER	REQD.	REQUIRED
DIM.	DIMENSION	R.O.	ROUGH OPENING
D.S.	DOWNSPOUT	SCHD.	SCHEDULE
(E)	EXISTING	SIM.	SIMILAR
ELEC.	ELECTRICAL	SPEC.	SPECIFICATION
EQUP.	EQUIPMENT	STL.	STEEL
EXP.	EXPANSION	STRUCT.	STRUCTURAL
EXT.	EXTERIOR	SUSP.	SUSPENDED
EW.	EACH WAY	S.V.	SHEET VINYL
FACT.	FACTORY	T.O.	TOP OF
FD.	FLOOR DRAIN	T.S.	TUBE STEEL
FDC.	FIRE DEPARTMENT CONNECTION	TYP.	TYPICAL
FE.	FIRE EXTINGUISHER	V.C.T.	VINYL COMPOSITION TILE
FEC.	FIRE EXTINGUISHER CAB	VERT.	VERTICAL
FN.	FINISH	W.	WITH
FLR.	FLOOR	WD.	WOOD
FNFTN.	FOUNDATION	WDW.	WINDOW
FRP.	FIBER REINFORCED PLASTIC		
F.S.	FLOOR SINK		
FTG.	FOOTING		

PATTERNS & SYMBOLS



SHEET LIST

- GENERAL**
G0.0 COVER SHEET
G0.1 ADA GENERAL DETAILS
- ARCHITECTURAL**
A0.0 DEMO PLAN
A1.1 FIRST FLOOR PLAN - NEW
A2.1 REFLECTED CEILING PLAN
A3.1 INTERIOR ELEVATIONS
- STRUCTURAL**
S1 STRUCTURAL DETAILS
- MECHANICAL**
M-1 HVAC DEMOLITION
M-2 HVAC NEW WORK
- ELECTRICAL**
E1.1 ELECTRICAL DEMO PLAN, SPECIFICATIONS, LEGEND AND DETAILS
E1.2 LIGHTING AND POWER/LOW VOLTAGE PLANS, AND SCHEDULES

REVISIONS

NUM.	DESCRIPTION	DATE
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CITY PERMIT STAMP

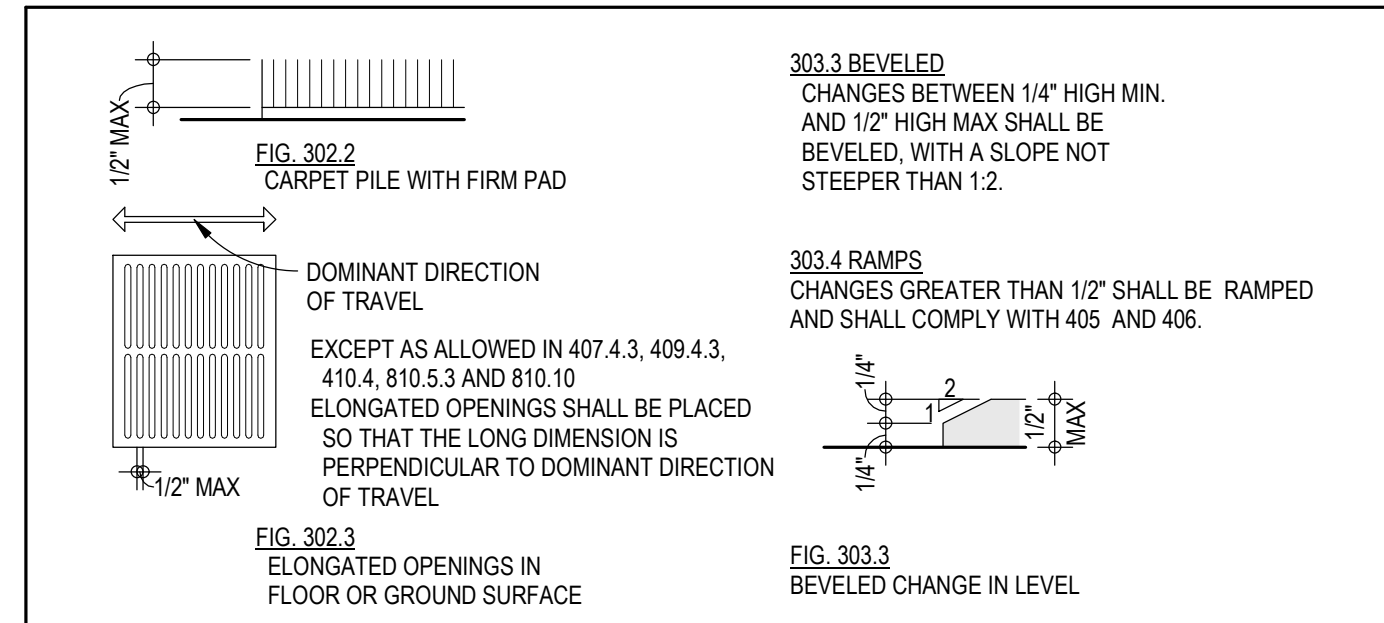
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930 CUSTER AVENUE, HELENA, MT 59602
MONTANA OUTDOORS OFFICE REMODEL

23-153-01

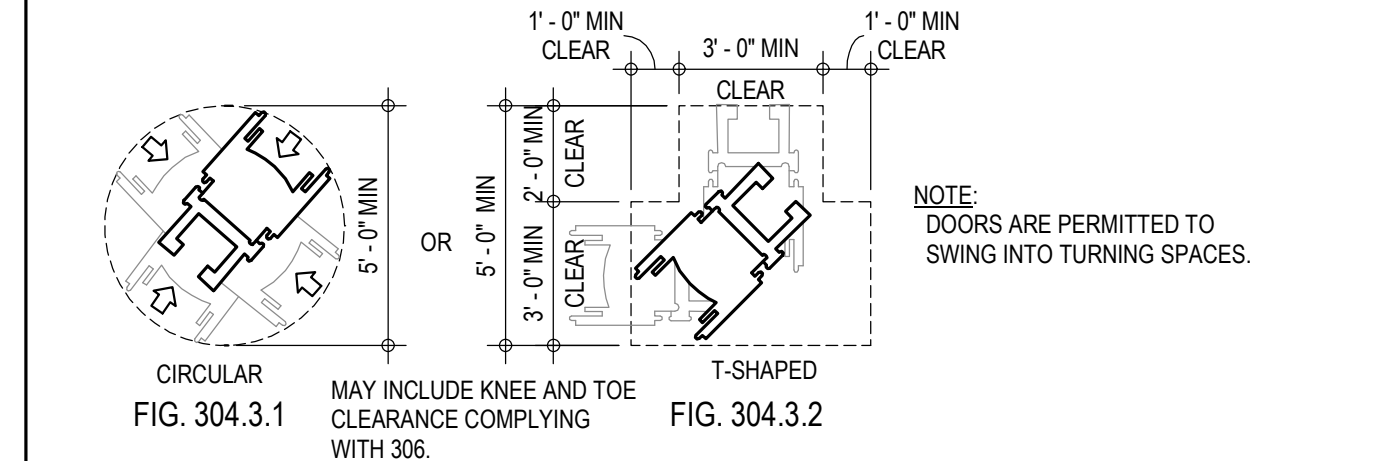
COVER SHEET

DATE 10.18.21

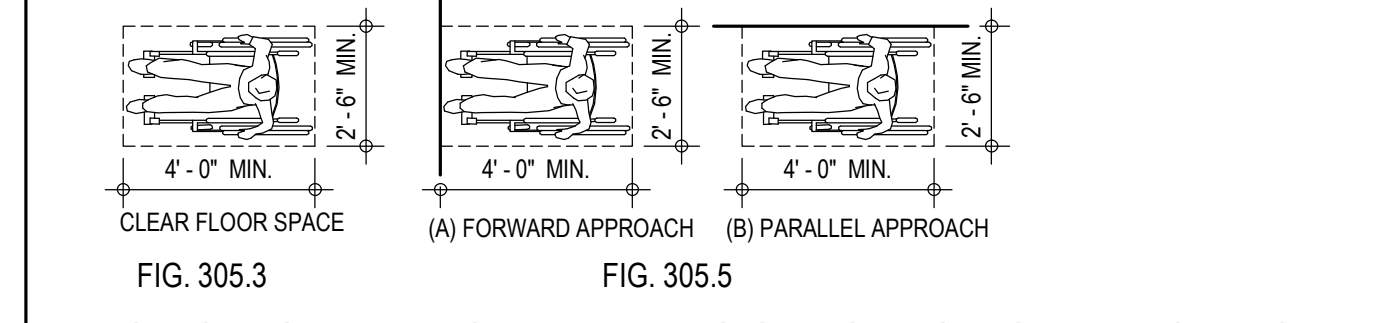
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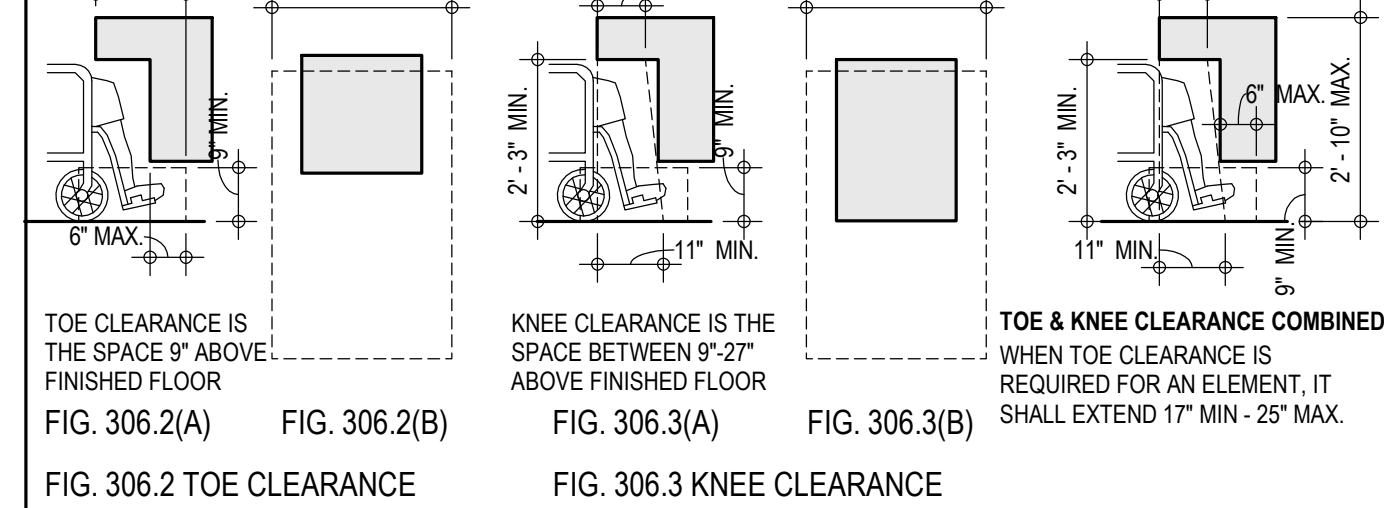
SECTION 302 FLOOR OR GROUND SURFACE
SCALE: 6" = 1'-0"



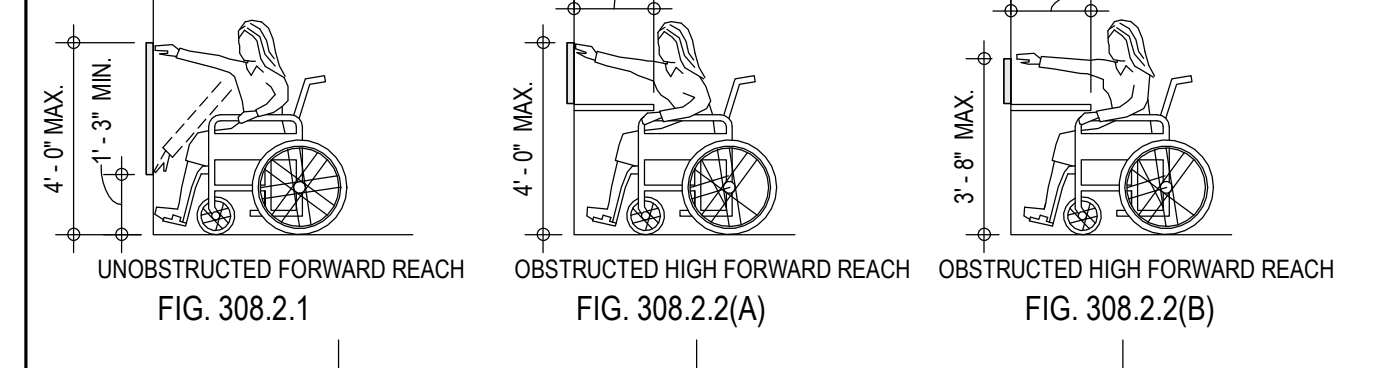
SECTION 304 TURNING SPACE
SCALE: 1/4" = 1'-0"



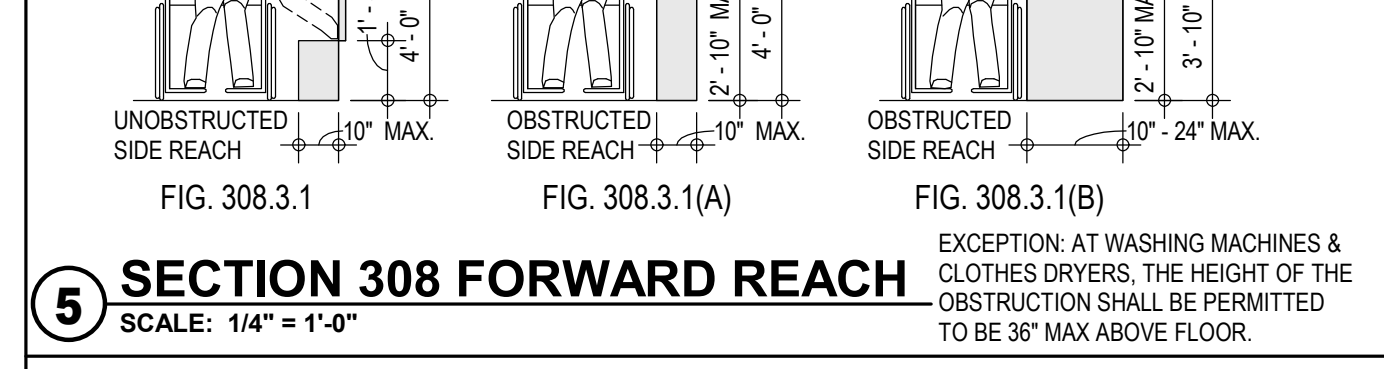
SECTION 305 CLEAR FLOOR OR GROUND SPACE
SCALE: 1/4" = 1'-0"



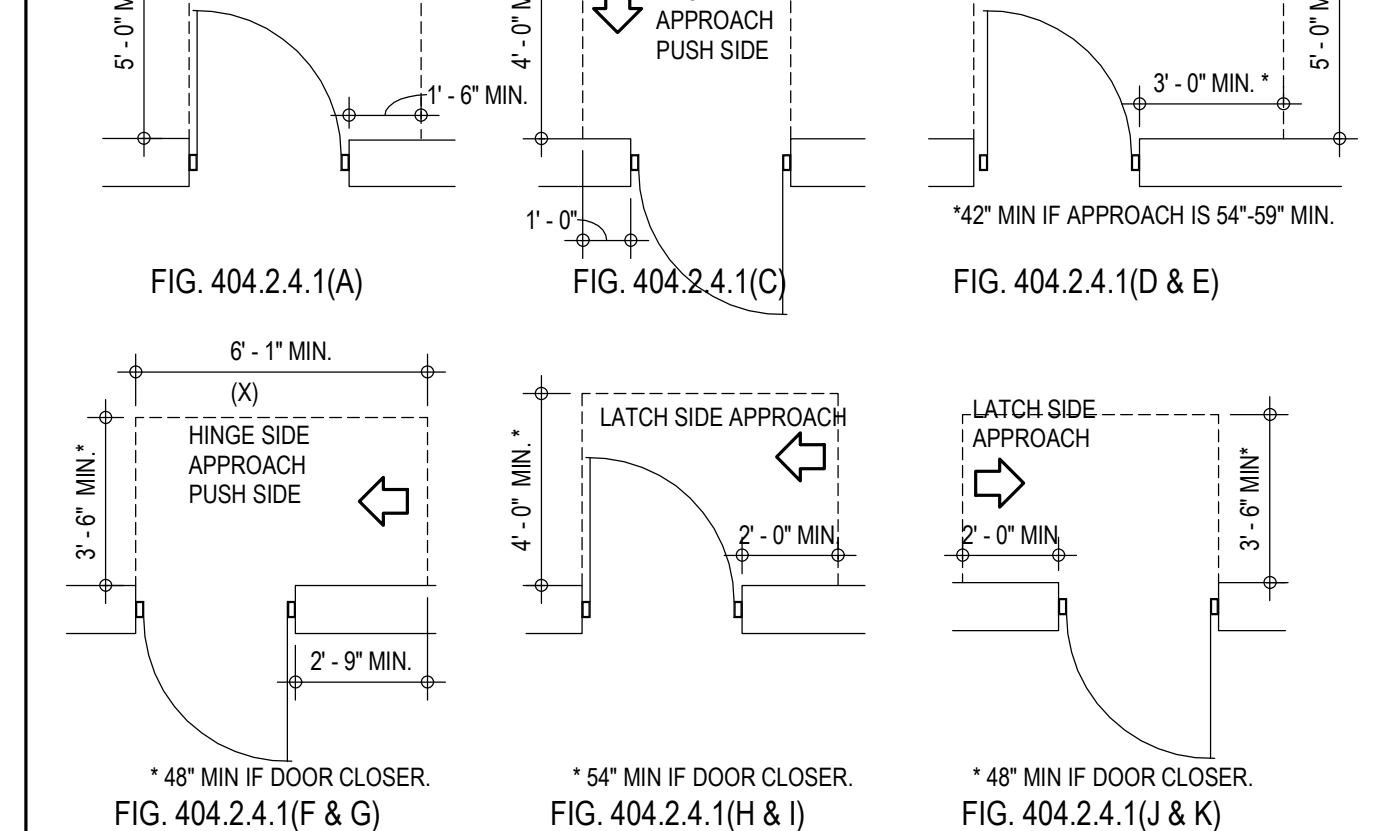
SECTION 306 TOE AND KNEE CLEARANCE
SCALE: 3/8" = 1'-0"



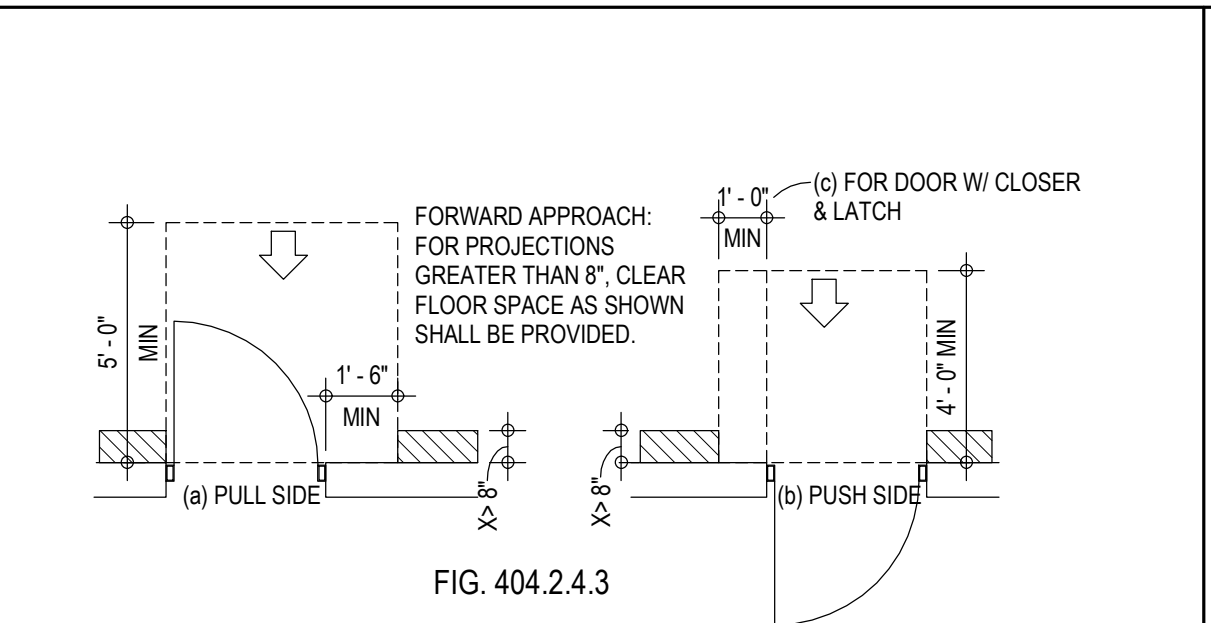
SECTION 308 FORWARD REACH
SCALE: 1/4" = 1'-0"



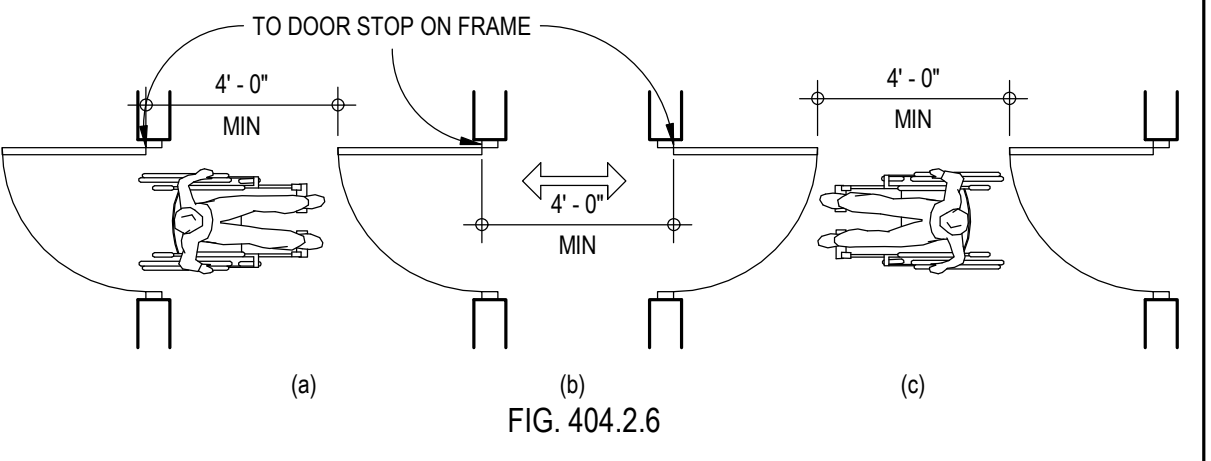
SECTION 308 FORWARD REACH
SCALE: 1/4" = 1'-0"



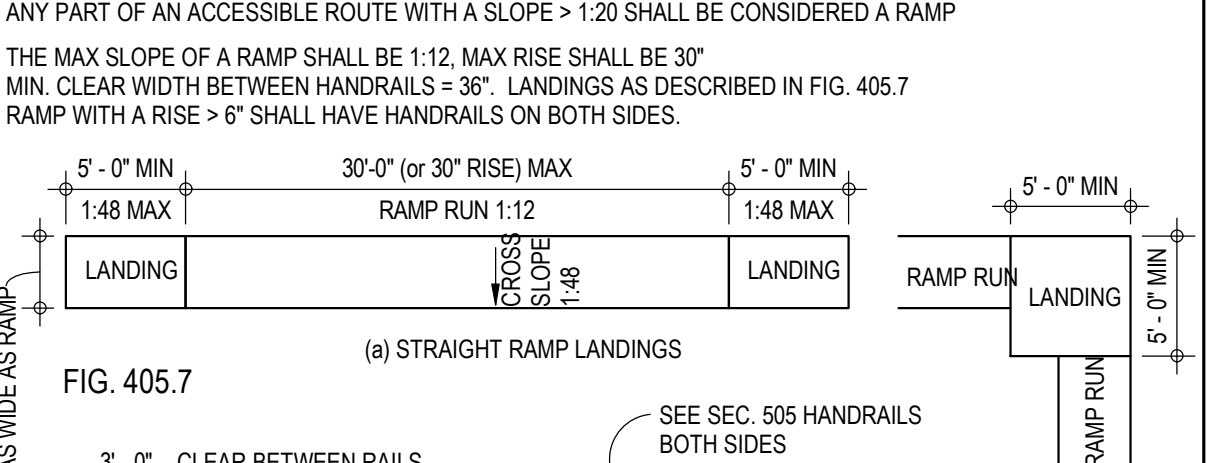
SECTION 404 DOOR CLEARANCE
SCALE: 1/4" = 1'-0"



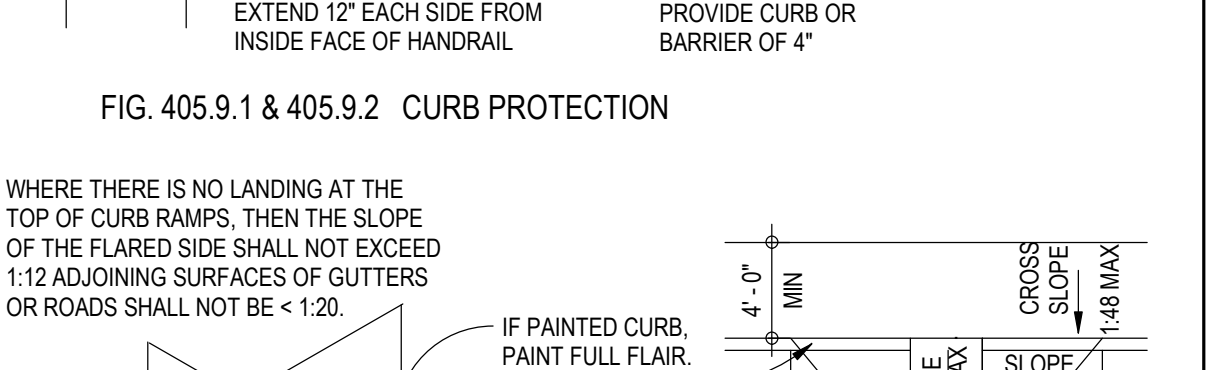
SECTION 404 RECESSED DOOR CLEARANCE
SCALE: 1/4" = 1'-0"



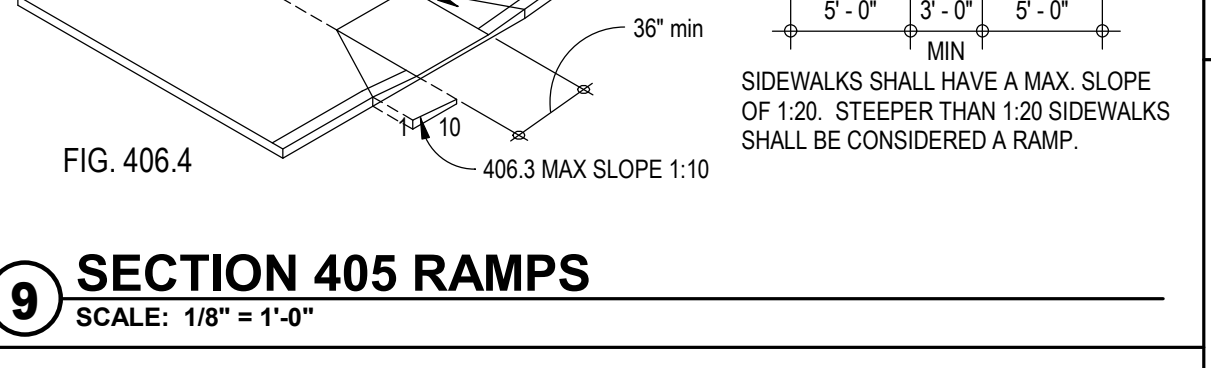
SECTION 404 DOORS & GATES IN SERIES
SCALE: 1/4" = 1'-0"



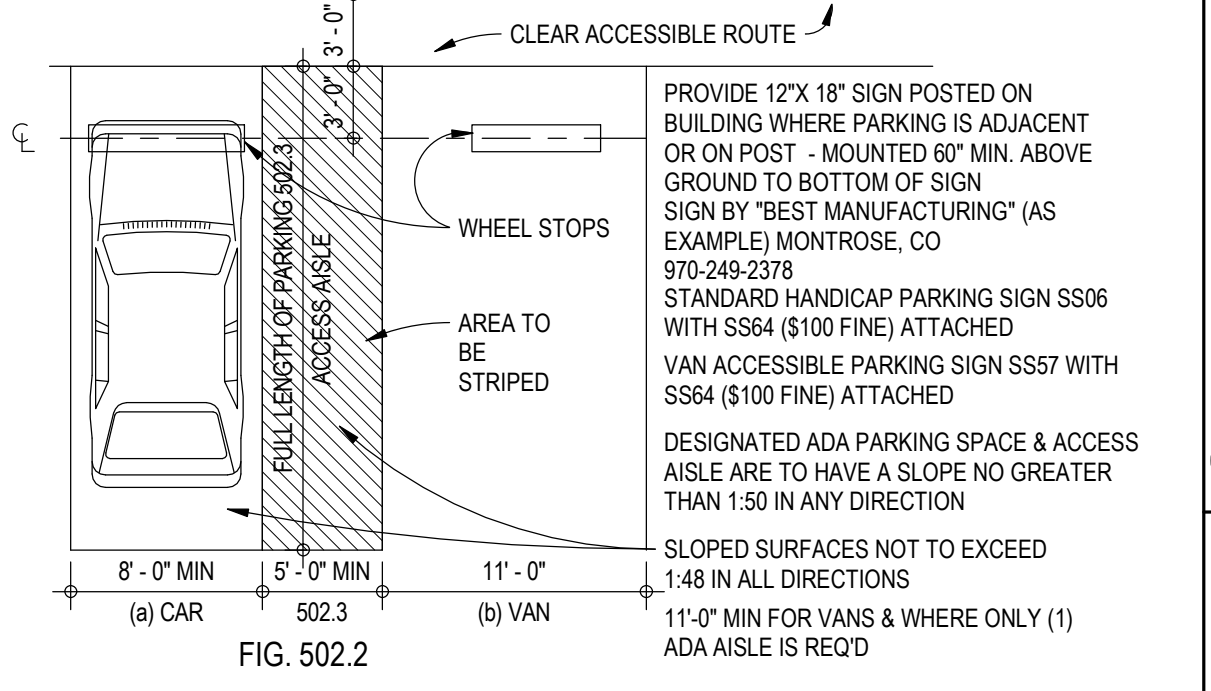
SECTION 505 HANDRAILS
SCALE: 6" = 1'-0"



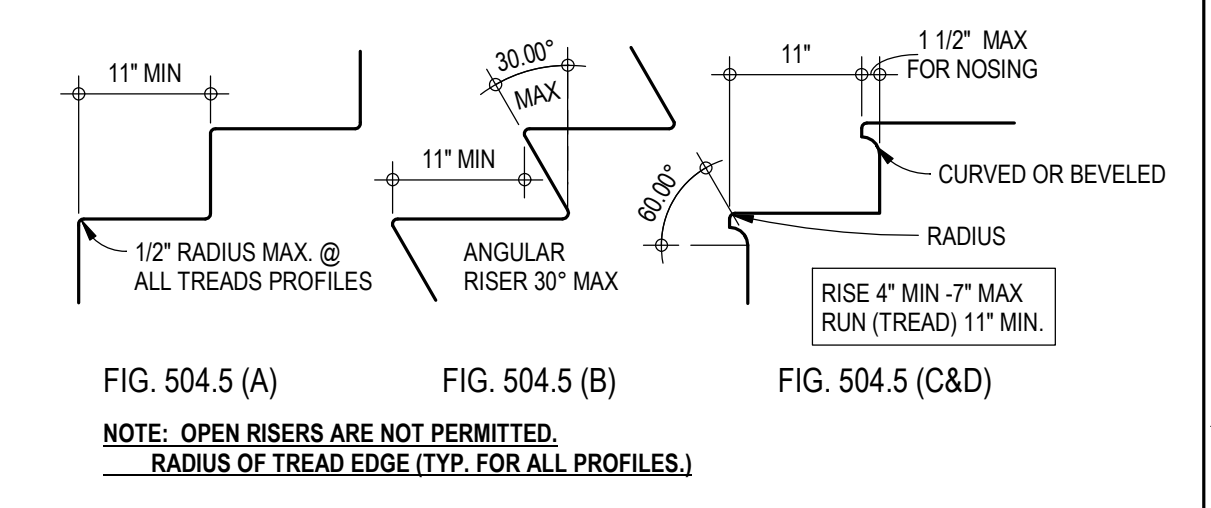
SECTION 505 HANDRAILS
SCALE: 6" = 1'-0"



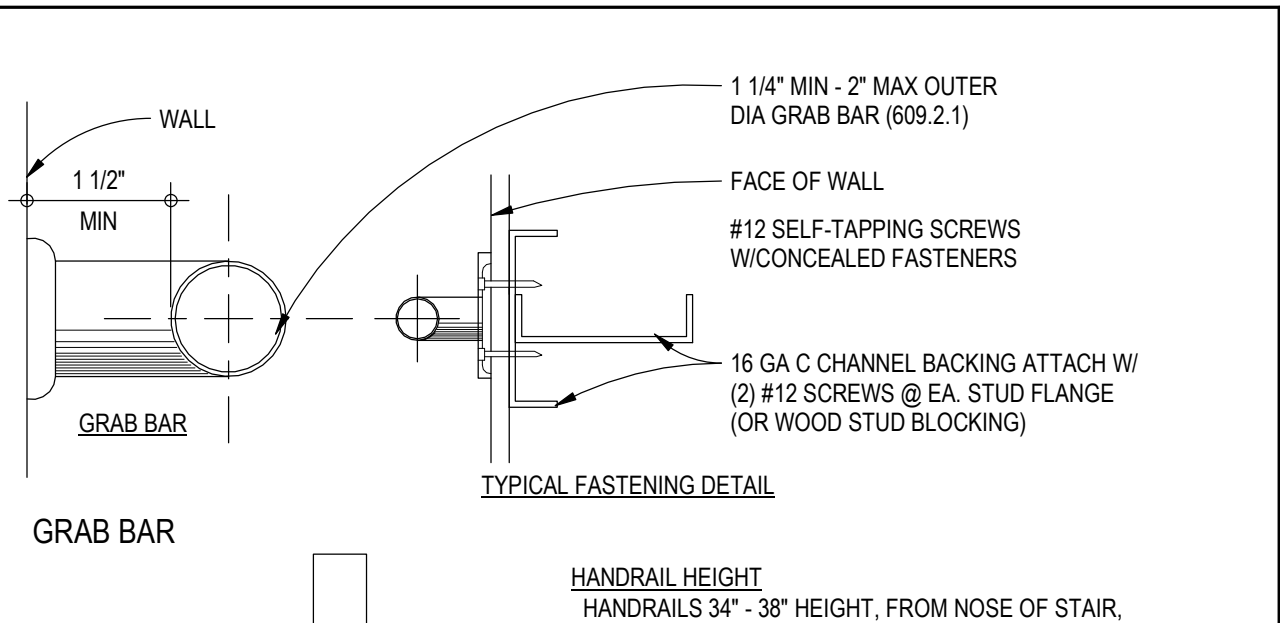
SECTION 505 HANDRAILS
SCALE: 6" = 1'-0"



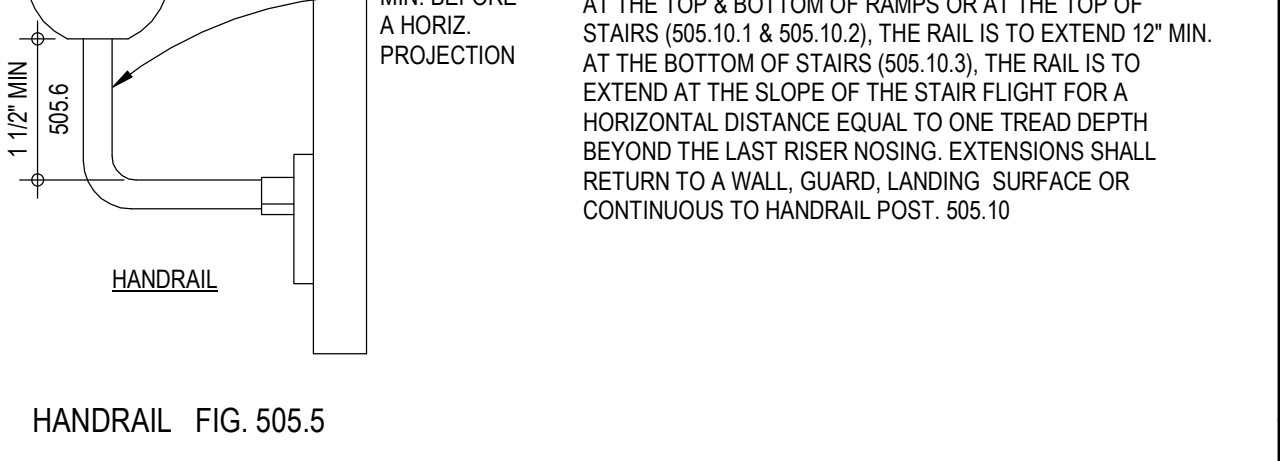
SECTION 405 RAMPS
SCALE: 1/8" = 1'-0"



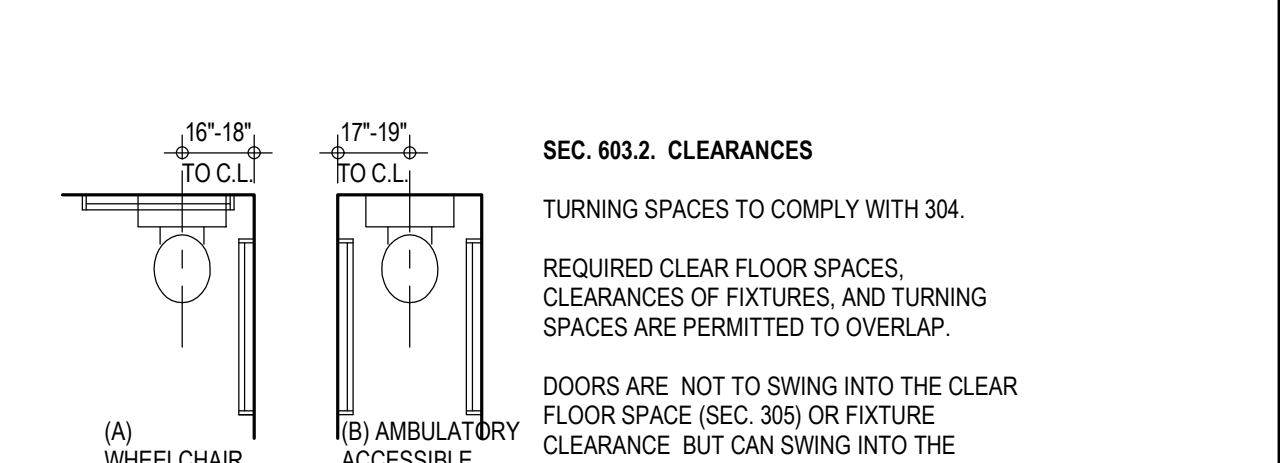
SECTION 502 PARKING SPACES
SCALE: 1/8" = 1'-0"



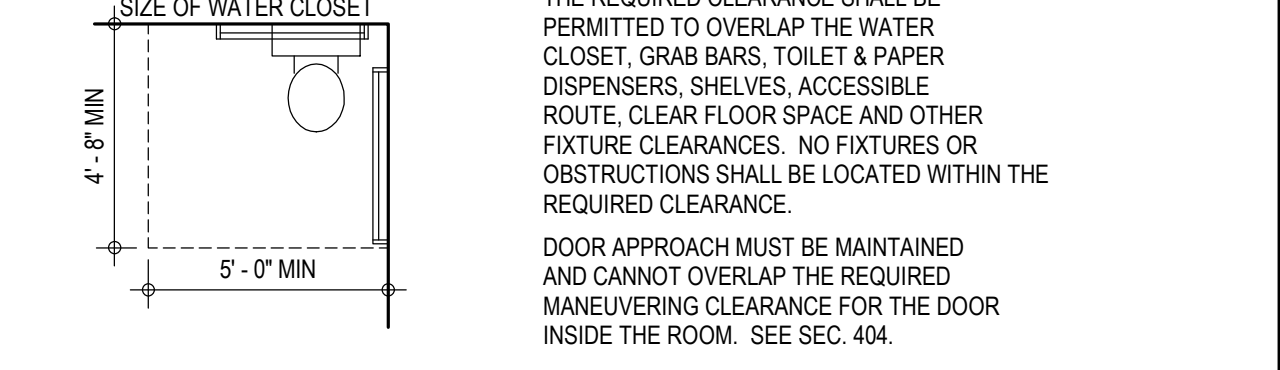
SECTION 505 HANDRAILS
SCALE: 6" = 1'-0"



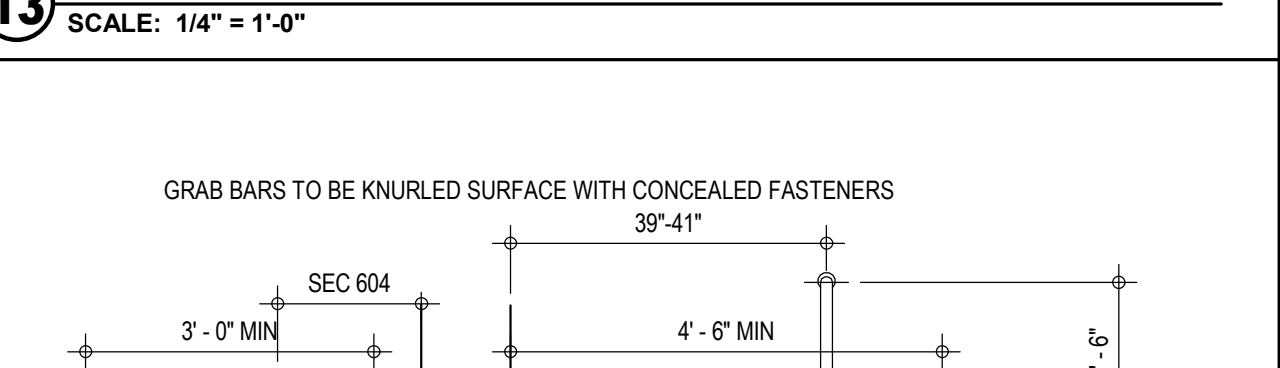
SECTION 604 WATER CLOSET
SCALE: 1/4" = 1'-0"



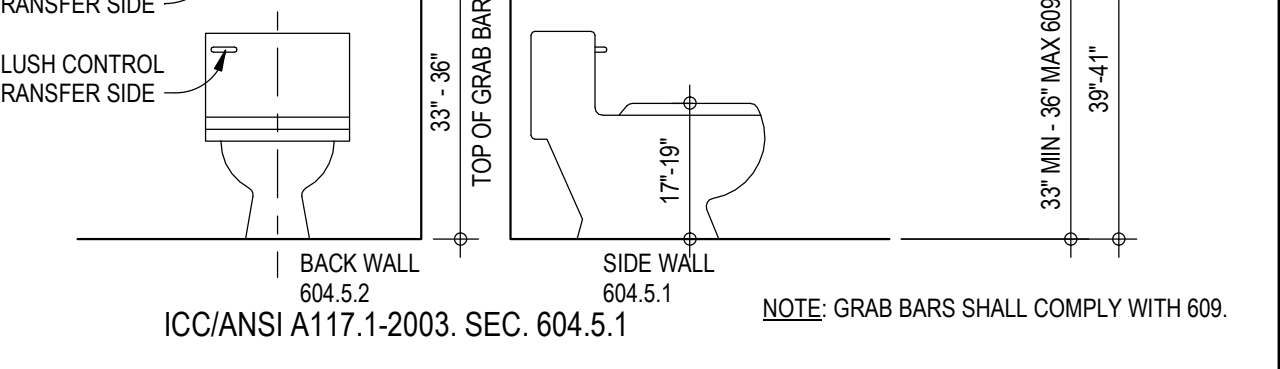
SECTION 604 WATER CLOSET
SCALE: 1/4" = 1'-0"



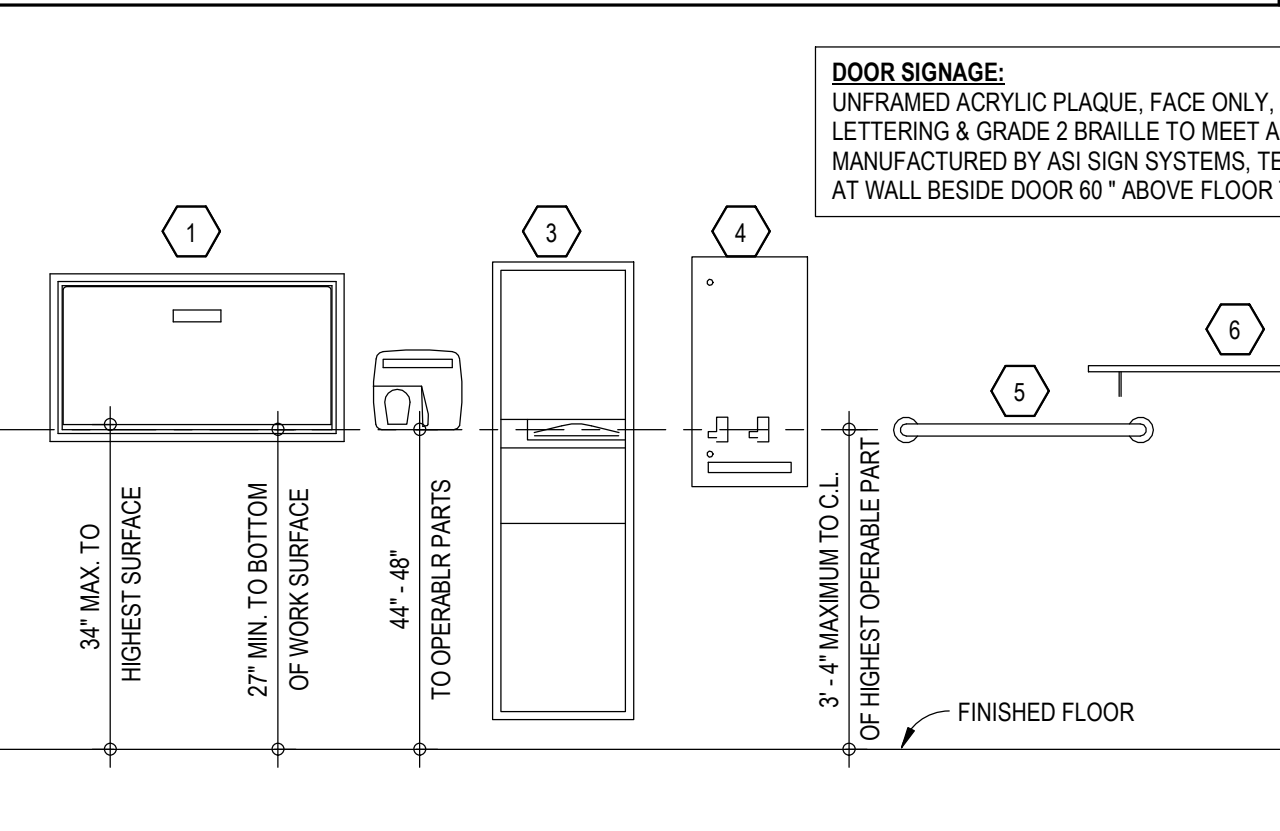
SECTION 604.5 GRAB BARS
SCALE: 1/2" = 1'-0"



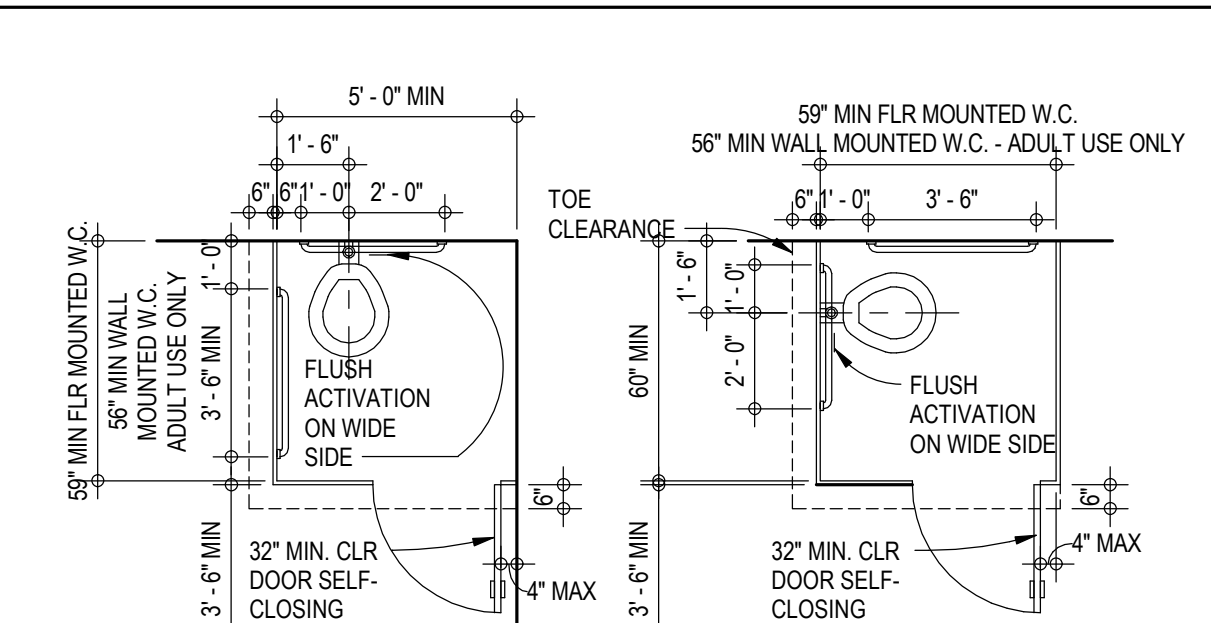
SECTION 604.5 GRAB BARS
SCALE: 1/2" = 1'-0"



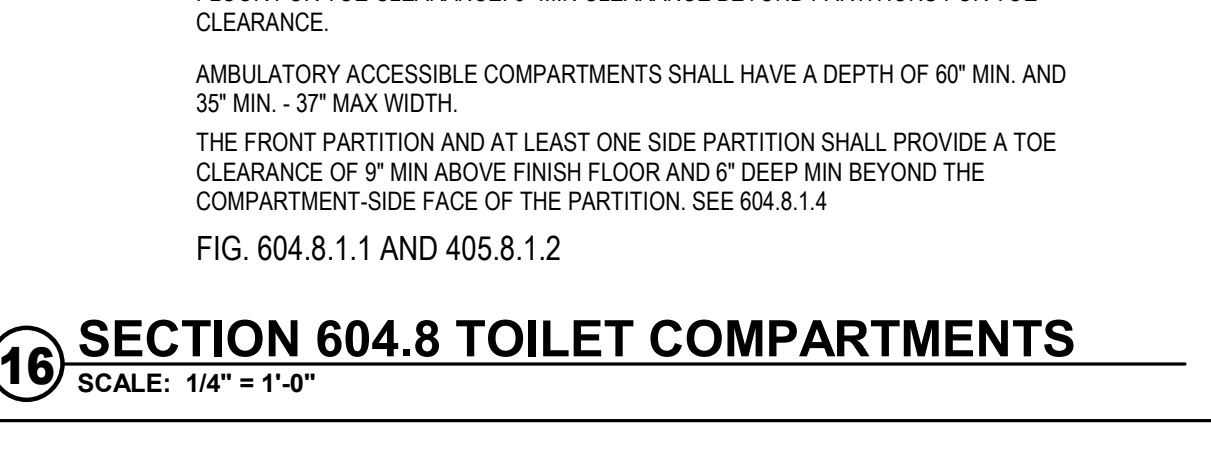
SECTION 604.5 GRAB BARS
SCALE: 1/2" = 1'-0"



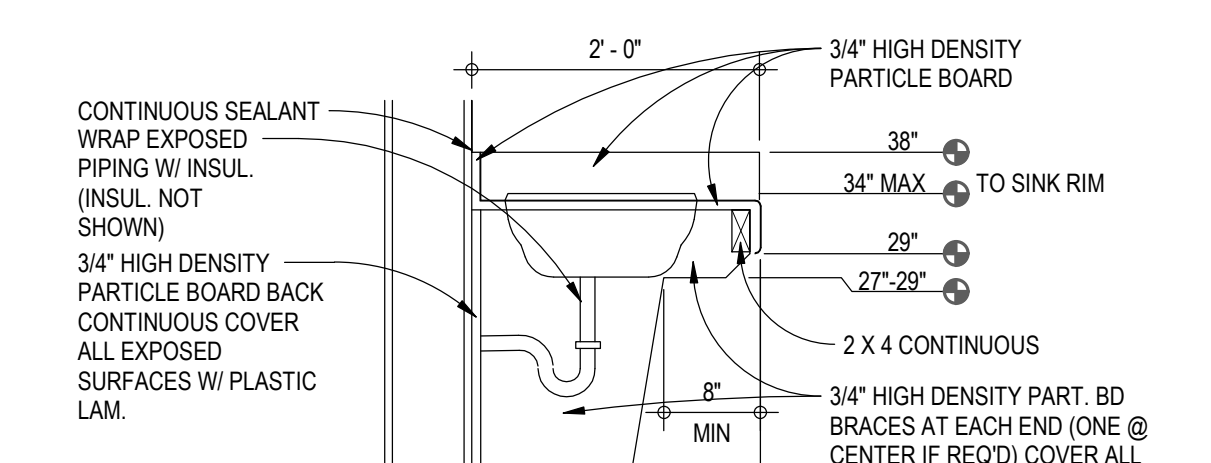
SECTION 604.5 GRAB BARS
SCALE: 1/2" = 1'-0"



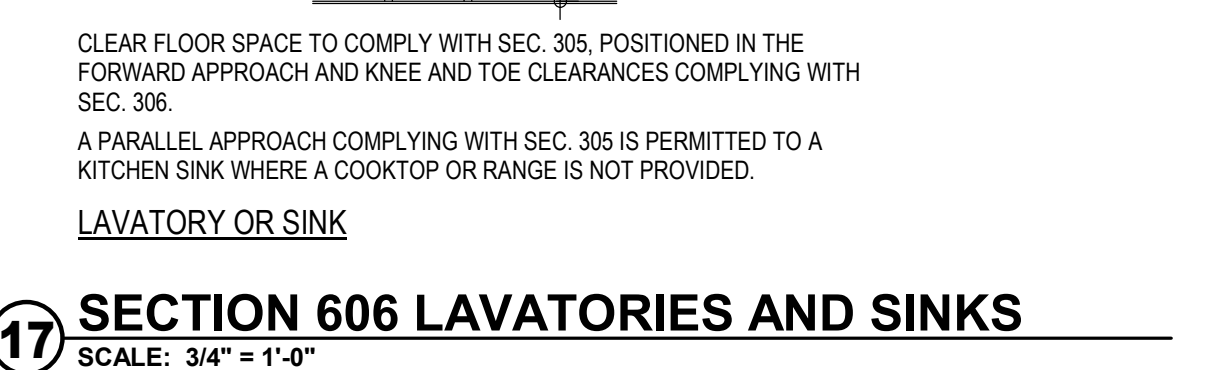
SECTION 604.8 TOILET COMPARTMENTS
SCALE: 1/4" = 1'-0"



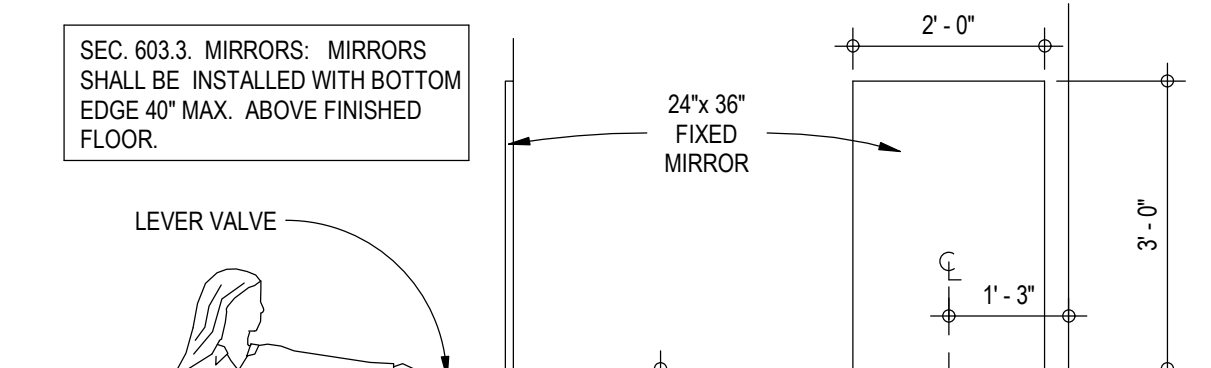
SECTION 604.8 TOILET COMPARTMENTS
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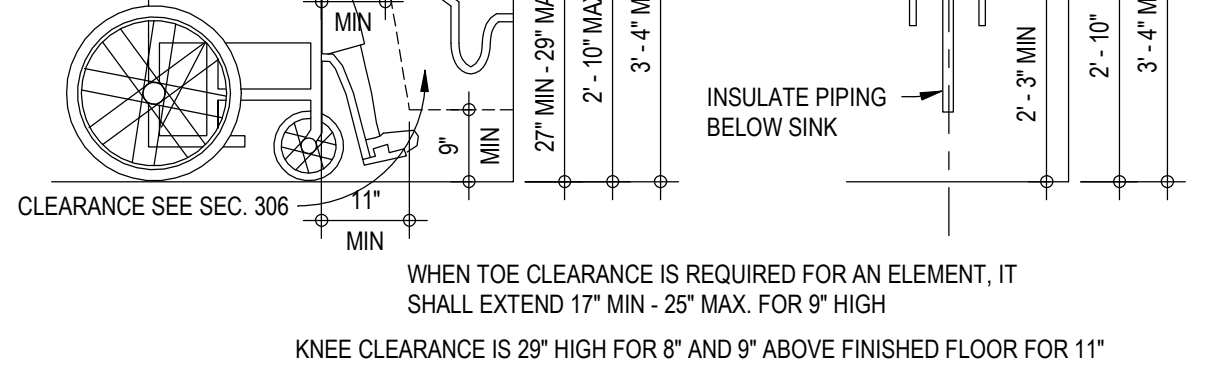
SECTION 606 LAVATORIES AND SINKS
SCALE: 3/4" = 1'-0"



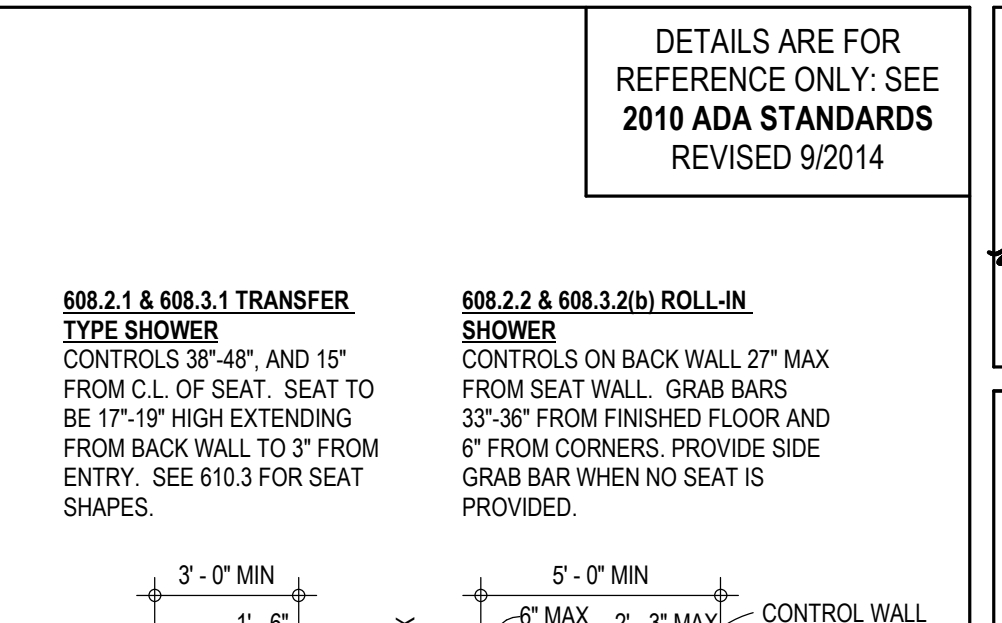
SECTION 606 LAVATORIES AND SINKS
SCALE: 3/4" = 1'-0"



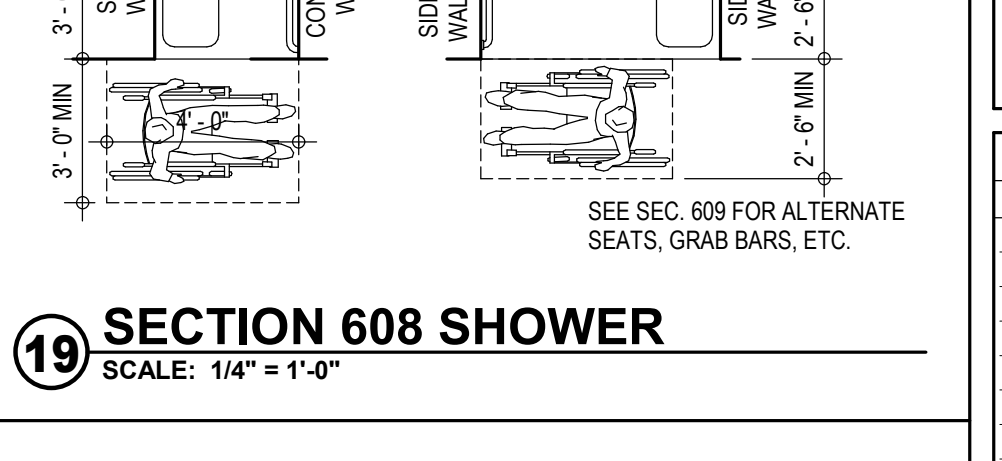
SECTION 606 LAVS AND SINKS (CLEARANCE)
SCALE: 1/2" = 1'-0"



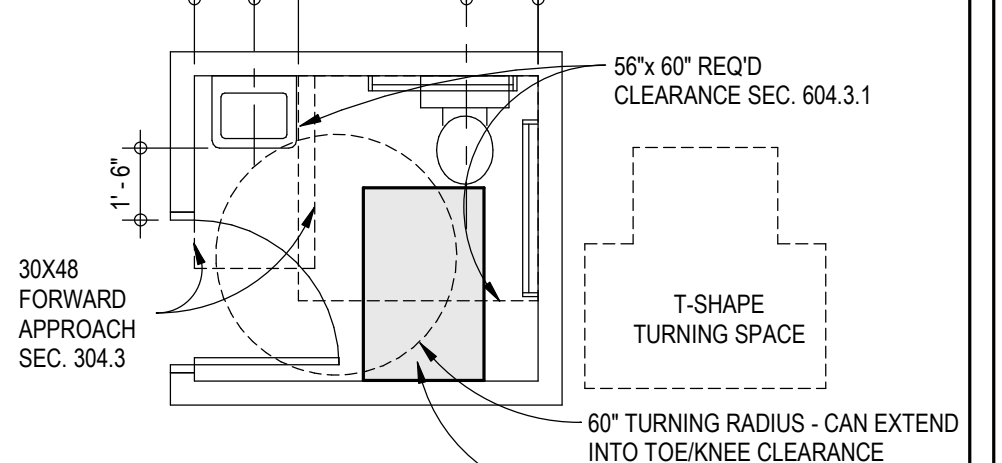
SECTION 606 LAVS AND SINKS (CLEARANCE)
SCALE: 1/2" = 1'-0"



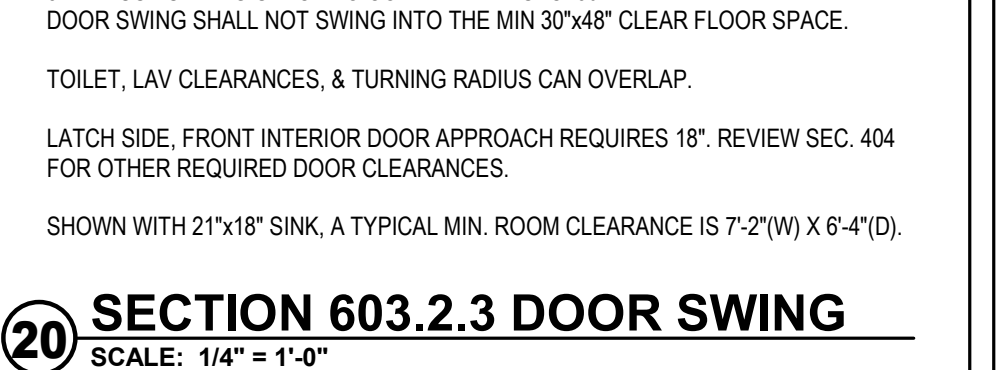
SECTION 608 SHOWER
SCALE: 1/4" = 1'-0"



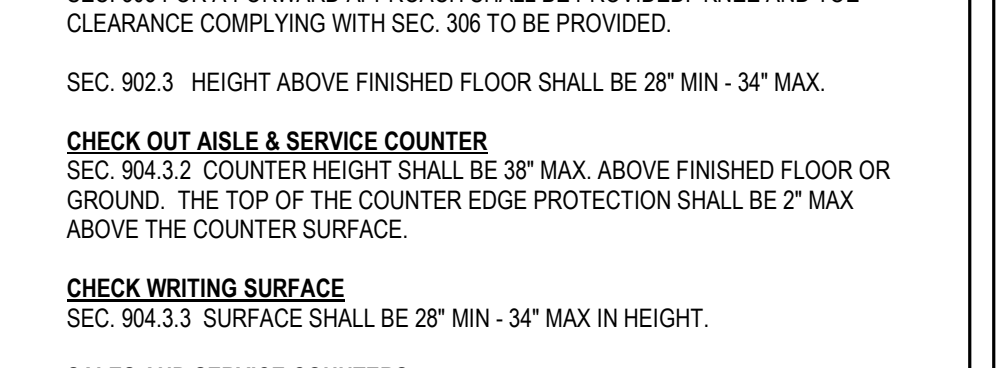
SECTION 608 SHOWER
SCALE: 1/4" = 1'-0"



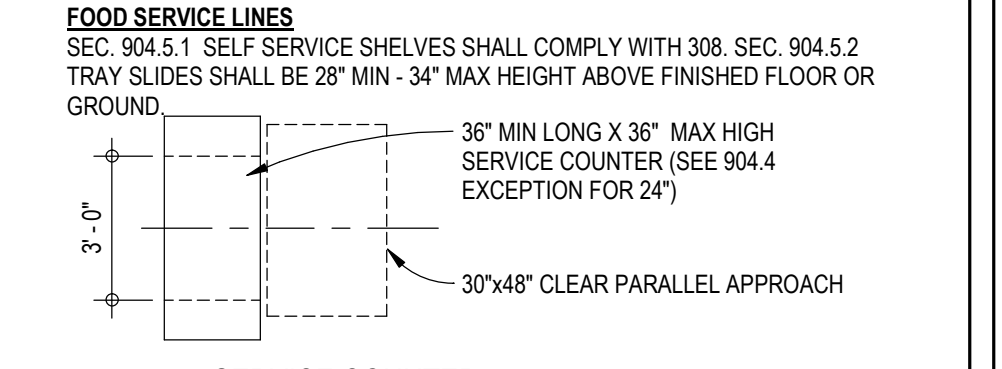
SECTION 603.2.3 DOOR SWING
SCALE: 1/4" = 1'-0"



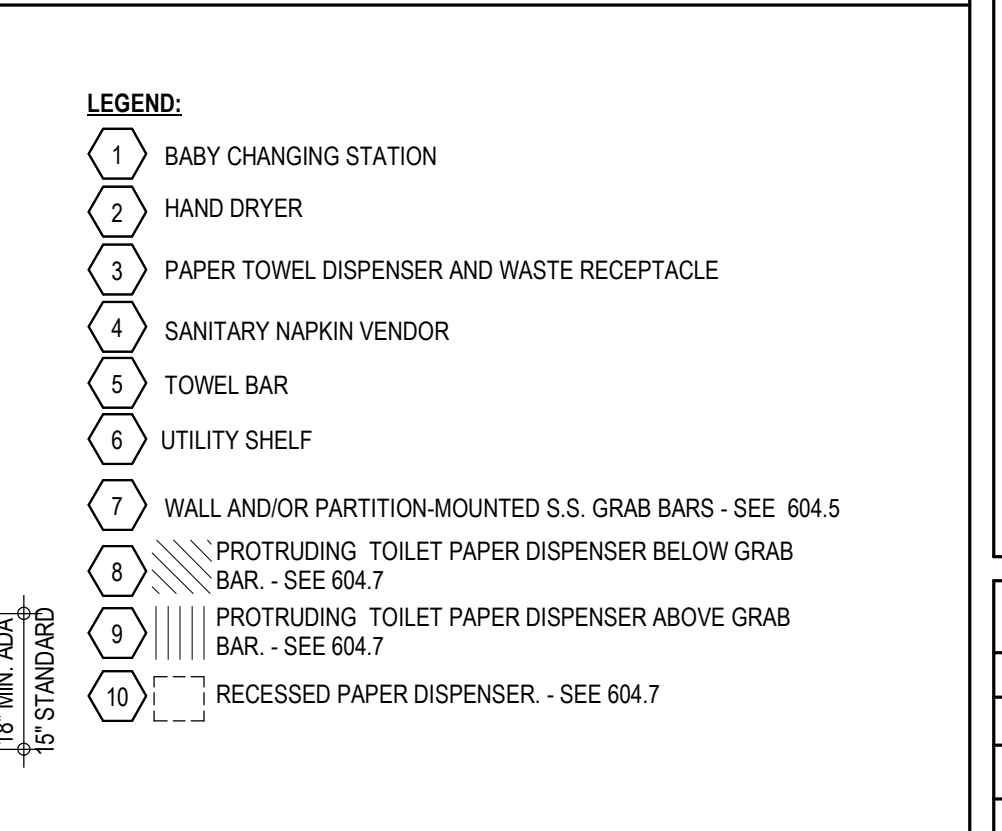
SECTION 603.2.3 DOOR SWING
SCALE: 1/4" = 1'-0"



SECTION 904.3 BUILT-IN ELEMENTS
SCALE: 1/4" = 1'-0"



SECTION 904.3 BUILT-IN ELEMENTS
SCALE: 1/4" = 1'-0"



SECTION 904.3 BUILT-IN ELEMENTS
SCALE: 1/4" = 1'-0"

DETAILS ARE FOR REFERENCE ONLY; SEE 2010 ADA STANDARDS REVISED 9/2014

LEGEND:

- 1 BABY CHANGING STATION
- 2 HAND DRYER
- 3 PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
- 4 SANITARY NAPKIN VENDOR
- 5 TOWEL BAR
- 6 UTILITY SHELF
- 7 WALL AND/OR PARTITION-MOUNTED S.S. GRAB BARS - SEE 604.5
- 8 PROTRUDING TOILET PAPER DISPENSER BELOW GRAB BAR - SEE 604.7
- 9 PROTRUDING TOILET PAPER DISPENSER ABOVE GRAB BAR - SEE 604.7
- 10 RECESSED PAPER DISPENSER - SEE 604.7

REVISIONS

#	DATE

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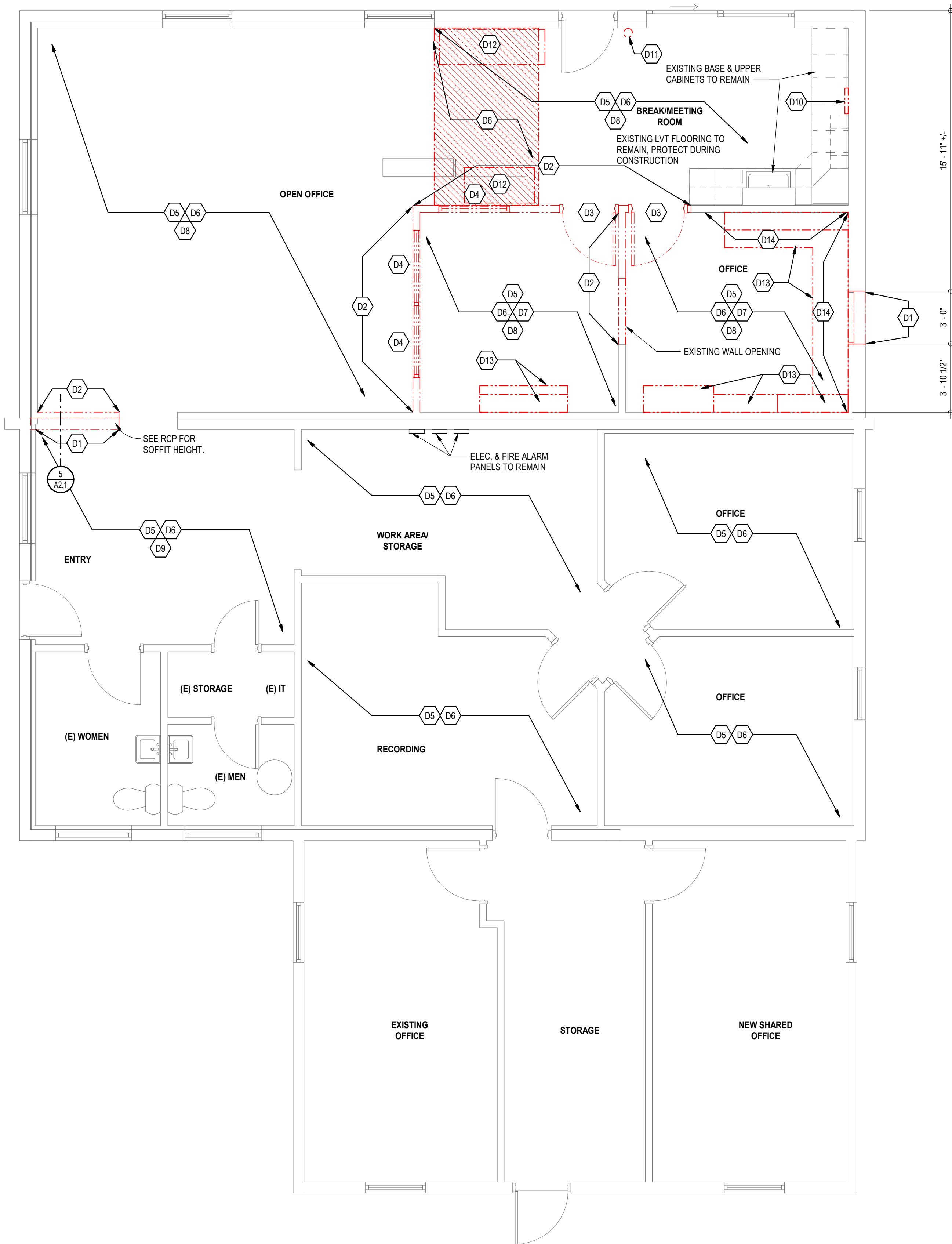
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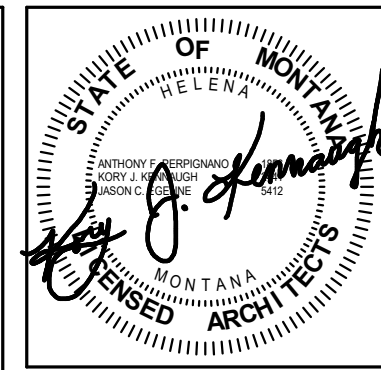
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1 FIRST FLOOR - DEMO
 SCALE: 1/4" = 1'-0"

- GENERAL DEMO PLAN NOTES**
- COORDINATE ALL WORK IN (E) BUILDING WITH OWNER. PORTIONS OF THE BUILDING WILL REMAIN OCCUPIED DURING CONSTRUCTION. CONTRACTOR TO COORDINATE W/ OWNER FOR SEQUENCING OF DEMOLITION TO MINIMIZE IMPACT TO BUSINESS OPERATIONS.
 - CONTRACTOR TO COORDINATE WITH OWNER BEFORE START OF DEMO FOR OWNER TO REMOVE FURNITURE, EQUIPMENT AND OWNER SALVAGED ITEMS.
 - SEE MECHANICAL, ELECTRICAL DRAWINGS FOR ADDITIONAL DEMO NOTES.
 - PROTECT EXISTING CONSTRUCTION TO REMAIN. REPAIR ANY DAMAGE TO MATCH EXISTING ADJACENT CONSTRUCTION OR REPLACE ITEMS AS REQUIRED.
 - CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING DEMOLITION. NOTIFY ARCHITECT/OWNER OF ANY ITEMS THAT WOULD INTERFERE WITH PROCEEDING WITH DEMOLITION AS INDICATED OR DEVIATES FROM ASSUMED CONDITIONS.
 - CONTRACTOR TO COMPLY WITH ALL EPA, FEDERAL, STATE AND LOCAL REGULATIONS FOR DISPOSAL OF CONSTRUCTION MATERIALS. REMOVAL AND DISPOSAL OF ALL DEMOLISHED ITEMS WITHIN THE LIMIT OF WORK AREA UNLESS OTHERWISE NOTED.
 - CONTRACTOR TO PROVIDE ALL TEMPORARY PARTITIONS AND OTHER SYSTEMS TO CONTROL THE SPREAD OF CONSTRUCTION DEBRIS & DUST. CONTRACTOR TO PROVIDE ALL TEMPORARY SHORING AND BRACING. SEE STRUCT.
 - PATCH AND REPAIR ANY FINISHES TO MATCH ADJACENT FINISHES.
- DEMO KEY NOTES:**
- D1 SAWCUT EXTERIOR/INTERIOR CMU BLOCK WALL FOR NEW OPENING, SEE WINDOW & DOOR LEGEND
 - D2 REMOVE EXISTING INTERIOR FRAMED WALL COMPLETELY
 - D3 REMOVE EXISTING EXTERIOR/INTERIOR DOOR/ DOOR FRAME & DOOR HARDWARE COMPLETELY
 - D4 REMOVE EXISTING INTERIOR WINDOW COMPLETELY
 - D5 REMOVE EXISTING RUBBER BASE COMPLETELY, PREP WALL SURFACE FOR NEW RUBBER BASE
 - D6 REMOVE EXISTING BROADLOOM CARPET OR LVT FLOORING COMPLETELY, PREP FLOOR SURFACE FOR NEW FLOOR FINISHES
 - D7 REMOVE EXISTING WALL CASEWORK AND SELVING COMPLETELY, PATCH AND REPAIR WALL FOR NEW FINISHES
 - D8 REMOVE EXISTING CEILING TILES & GRID COMPLETELY
 - D9 REMOVE EXISTING 12" X 12" FULLY ADHERED CEILING SYSTEM AND FRAMING SYSTEM COMPLETELY, PREP FOR NEW LAY-IN CEILING SYSTEM
 - D10 REMOVE EXISTING ELECTRICAL BREAKER PANEL. SEE ELEC.
 - D11 REMOVE & RELOCATE EXISTING FIRE EXTINGUISHER
 - D12 REMOVE & RELOCATE EXISTING BASE CABINETS W/ COUNTERTOPS
 - D13 REMOVE EXISTING BASE & UPPER CASEWORK AND/OR WALL SHELVING COMPLETELY.
 - D14 REMOVE EXISTING GYP. BD. TO 5'-0" A.F.F.



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#	DATE

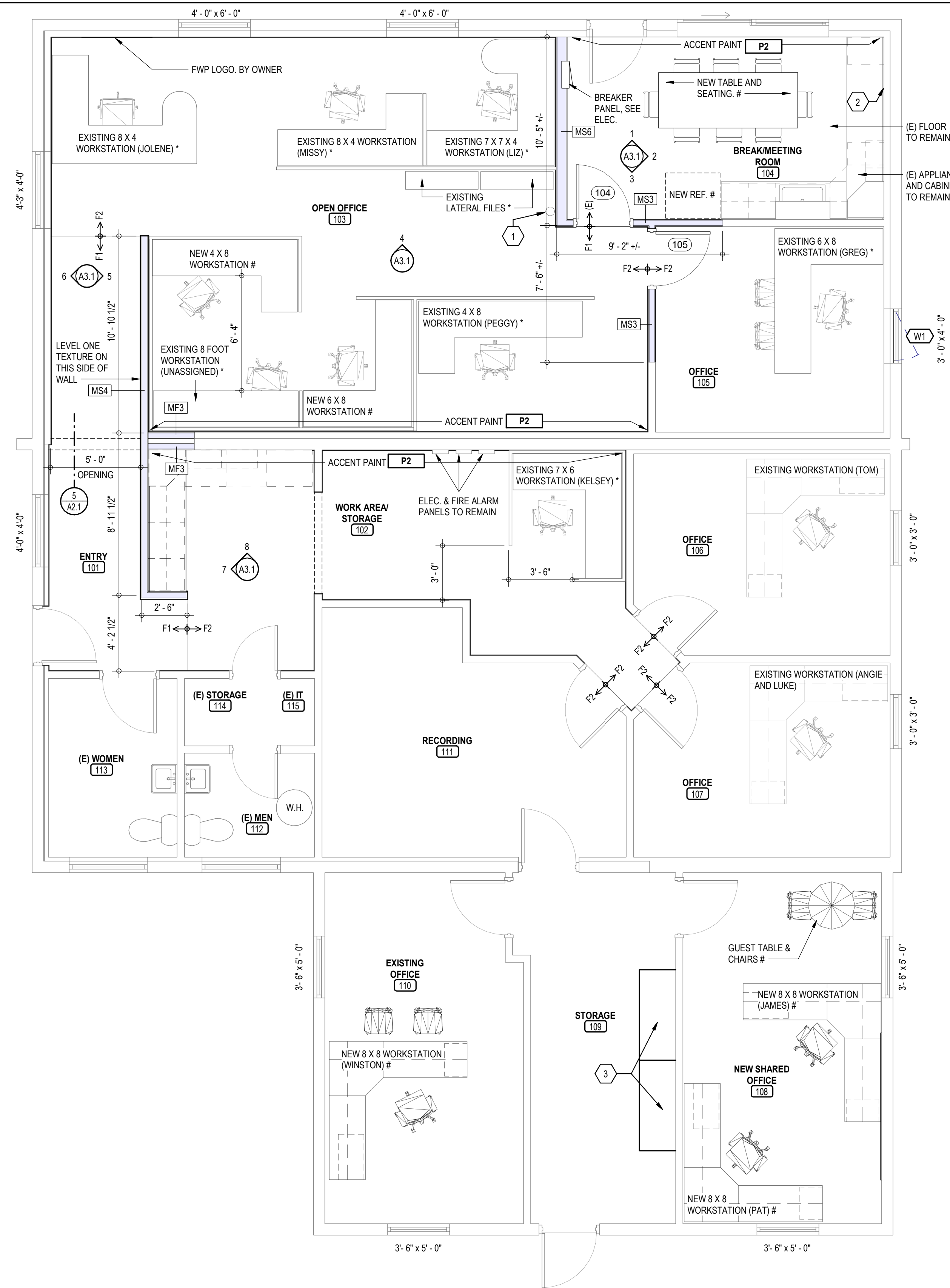
MONTANA FISH, WILDLIFE, & PARKS
MONTANA OUTDOORS OFFICE REMODEL
 930 CUSTER AVENUE, HELENA, MT 59602
DEMO PLAN

COGNIZANT NOTE:
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23-153-01
 DRAWN BY MMA
 APPROVED CWG
 DATE 10.18.21

AD1.0



2018 IEBC - EXISTING BUILDING CODE

TYPE OF CONSTRUCTION V-B IBC, NON-SPRINKLED
 OCCUPANCY TYPE B (OFFICE)
 EXISTING MAIN FLOOR = 2905 SF
1146 SF MODIFIED OF MAIN FLOOR AREA OF 2905 SF = 40% OF THE EXISTING BUILDING. NO ADDITIONS.
 EXISTING TYPE OF CONSTRUCTION V-B. NON-SPRINKLED

CHAPTER 6. CLASSIFICATION OF WORK
 SECTION 603 ALTERATIONS - LEVEL 2
 RECONFIGURATION OF SPACE, THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM, OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT.

SECTION 603.2 LEVEL 2 ALTERATIONS SHALL COMPLY WITH PROVISION OF CHAPTER 7 FOR LEVEL 1 ALTERATIONS AS WELL AS PROVISIONS OF CHAPTER 8.

CHAPTER 7 ALTERATIONS - LEVEL 1
 SECTION 702.1 INTERIOR FINISHES. NEWLY INSTALLED INTERIOR WALL & CEILING FINISHES TO COMPLY WITH CHAPTER 8 OF THE 2018 IBC

CHAPTER 8. 2018 IBC			
TABLE 803.13 INTERIOR WALL & CEILING CLASS FINISH PER OCCUPANCY GROUP			
B	A	B	C
EXIT PASSAGEWAYS	CORRIDORS	ROOMS	ROOMS

SECTION 703 FIRE PROTECTION
 ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF FIRE PROTECTION PROVIDED.

SECTION 704 MEANS OF EGRESS
 ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF PROTECTION FOR THE MEANS OF EGRESS.

SECTION 706 STRUCTURAL
 WHERE ALTERATION WORK INCLUDES REPLACEMENT OF EQUIPMENT SUPPORTED BY THE BUILDING OR ROOFING, PROVISIONS 706.2 - 706.3 SHALL APPLY.

SECTION 707 ENERGY CONSERVATION
 LEVEL 1 ALTERATIONS TO EXISTING BUILDING OR STRUCTURES ARE PERMITTED WITHOUT REQUIRING THE ENTIRE BUILDING TO COMPLY WITH THE ENERGY CODE.

CHAPTER 8 LEVEL 2

SECTION 804 FIRE PROTECTION
 THE REQUIREMENT SHALL BE LIMITED TO THE WORK AREA IN WHICH LEVEL 2 ALTERATIONS ARE BEING PERFORMED.

SECTION 804.2.2 IN GROUPS (A,B,E,F-1,H,I,M,R-1,R-2,R-4,S-1,S-2)
 WHERE OCCUPANTS WITHIN THE WORK AREA EXCEEDS 30, AN AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED WHERE ALL THE FOLLOWING OCCURS
 1. THE WORK AREA IS REQUIRED TO BE PROVIDED WITH AN AUTOMATIC SPRINKLER PROTECTION PER 2018 IBC FOR NEW CONSTRUCTION; AND
 2. THE WORK AREA EXCEEDS 50% OF THE FLOOR AREA.

SECTION 805 MEANS OF EGRESS
 THE REQUIREMENTS OF THIS SECTION SHALL BE LIMITED TO THE WORK AREA.

SECTION 805.4.1.1 TWO EGRESS DOORWAYS ARE REQUIRED IN ANY WORK AREA WHERE ALL THE ROOMS AND SPACES HAVING AN OCCUPANT LOAD GREATER THAN 50 OR IN WHICH THE TRAVEL DISTANCE TO THE EXIT EXCEEDS 75 FEET. THIS PROJECT (WORK AREA) WOULD REQUIRE TWO EXITS.

SECTION 805.4.3 DOOR CLOSING. IN ANY WORK AREA, ALL DOORS OPENING ONTO AN EXIT PASSAGEWAY AT GRADE SHALL BE SELF CLOSING.

SECTION 805.6 DEAD END CORRIDORS SHALL NOT EXCEED 35 FEET.

SECTION 805.7 MEANS OF EGRESS LIGHTING. ARTIFICIAL MEANS OF EGRESS LIGHTING SHALL BE INSTALLED PER 2012 IBC.

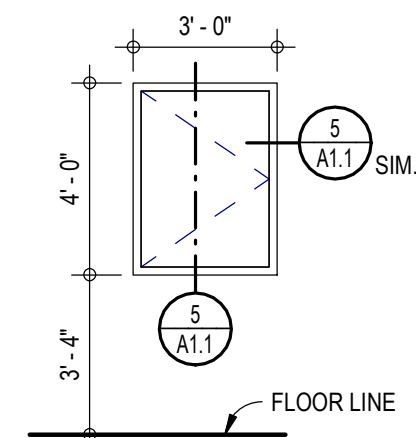
SECTION 805.8 EXIT SIGNS WITH THE WORK AREA SHALL COMPLY WITH 2018 IBC.

SECTION 807 ELECTRICAL
 ALL NEWLY INSTALLED ELECTRICAL EQUIPMENT AND WIRING TO THE WORK AREA SHALL COMPLY WITH NFPA 70.

SECTION 808 MECHANICAL
 ALL RECONFIGURED SPACES IN ANY WORK AREA TO BE PROVIDED WITH NATURAL OR MECHANICAL VENTILATION PER IMC. ANY ALTERED EXISTING SYSTEMS SHALL PROVIDE NOT LESS THAN 5 CFM OF OUTSIDE AIR PER PERSON OR 15 CFM OF VENTILATION AIR PER PERSON.

SECTION 810 ENERGY CONSERVATION
 LEVEL 2 ALTERATIONS TO EXISTING BUILDING OR STRUCTURES ARE PERMITTED WITHOUT REQUIRING THE ENTIRE BUILDING TO COMPLY WITH THE ENERGY CODE.

- FLOOR PLAN NOTES:**
- SEE DRAWING A1.1 FOR DIMENSIONS
 - BUILDING LINE IS THE EXTERIOR FACE OF FOUNDATION
 - PATCH & REPAIR ALL EXISTING HOLES, MATCH SURROUND FINISHES & COLORS, UNLESS OTHERWISE NOTES IN ROOM SCHEDULE OR FINISH LEGEND
- DIMENSION NOTES:**
- DIMENSION LINE IS EXTERIOR FACE OF FOUNDATION WALL OR COLUMN CENTERLINE UNLESS NOTED OTHERWISE
 - DIMENSIONS ARE TO FACE OF STUDS OR COLUMN CENTERLINE UNLESS OTHERWISE NOTED
- FLOOR PLAN KEY NOTES:**
- RELOCATED FIRE EXTINGUISHER
 - PATCH AND REPAIR FURRING WALL AS REQ'D WERE ELECTRICAL BREAKER PANEL WAS REMOVED. MATCH ADJACENT FINISHES
 - RELOCATED EXISTING CASEWORK, COORDINATE FIANL LOCATION THIS AREA W/ OWNER.



WINDOW LEGEND
 SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

NUM	WIDTH	HEIGHT	THK	HAND	TYPE	DOOR			FRAME					REMARKS		
						MAT	GLASS	RATING	FINISH	HDW	MAT	SIZE	FINISH		JAMB	HEAD
104	3'-0"	7'-0"	1 3/4"	LH	A	WOOD	24"x36"	--	VARNISH	H2	METAL	5 3/4"	PAINT	2/A1.1	3/A1.1	
105	3'-0"	7'-0"	1 3/4"	LH	A	WOOD	24"x36"	--	VARNISH	H1	METAL	5 3/4"	PAINT	2/A1.1	3/A1.1	

ROOM FINISH SCHEDULE

ROOM INFORMATION		WALL FINISHES				OTHER FINISHES			NOTES	
		NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	BASE	FLOOR	TRIM		CEILING
FIRST FLOOR										
101	ENTRY	--	P1/WC1/WC3	P1	P1	B1	F2	P1	C1	SOFFIT TO BE P2
102	WORK AREA/ STORAGE	P2	P1	P1	P1	--	F2	P1	C1	
103	OPEN OFFICE	P1/WC2	P1	P2	P1	B1	F2	P1	C1	
104	BREAK/MEETING ROOM	P2	P1	P1	P1	B1	(E)	P1	C1	
105	OFFICE	P1	P1	P1	P1	B1	F2	P1	C1	
106	OFFICE	P1	P1	P1	P1	B1	F2	P1	C1	
107	OFFICE	P1	P1	P1	P1	B1	F2	P1	C1	
108	NEW SHARED OFFICE	P1	P1	P1	P1	--	--	P1	--	
109	STORAGE	P1	P1	P1	P1	B1	--	P1	--	
110	EXISTING OFFICE	P1	P1	P1	P1	B1	--	P1	--	
111	RECORDING	--	--	--	--	B1	F2	P1	--	
112	(E) MEN	--	--	--	--	--	--	P1	--	
113	(E) WOMEN	--	--	--	--	--	--	P1	--	
114	(E) STORAGE	--	--	--	--	--	--	P1	--	
115	(E) IT	--	--	--	--	--	--	P1	--	

ROOM FINISH LEGEND

- FINISHES MARKED WITH THE **P1** SYMBOL REFER TO THE FINISHES LISTED BELOW. SEE PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR SPECIFIC LOCATIONS OF FINISHES LISTED.
- SEE SPECIFICATIONS FOR FULL DESCRIPTION OF FINISHES AND APPLICATIONS.
- COLORS OR FINISHES NOT SPECIFIED TO BE SELECTED BY ARCHITECT OR OWNER'S REP FROM MANUFACTURER'S STANDARD COLORS.

BASE (B):

B1	TARKETT , RUBBER BASE. BASEWORKS THERMOSET RUBBER (TYPE TS) 4". COLOR: GATEWAY, TA4
-----------	--

CEILING (C):

C1	TILE: ARMSTRONG, 2x2, FINE FISSURED, SQUARE EDGE, COLOR: WHITE GRID: ARMSTRONG, PRELUDE XL HEAVY DUTY, COLOR: WHITE
-----------	--

CORNER GUARDS (CG):

CG1	INPRO ARCHITECTURAL PRODUCTS . CORNER GUARDS, 130 HIGH IMPACT CORNER GUARD, COLOR: TAUPE #0113. INSTALL @ ALL OUTSIDE CORNERS IN ROOMS RECEIVING NEW FINISHES.
------------	---

FLOORING (F):

F1	PATCRAFT , WALK - OFF CARPET, ON THE RIGHT FOOT 10305, COLOR: STERLING 00500
F2	PATCRAFT , FIELD CARPET, STATES OF WATER, GLACIAL ICE 10577, COLOR: DEW 00350

PAINT (P):

P1	SHERWIN WILLIAMS , INTERIOR PAINT, FIELD PAINT, DOOR AND WINDOW TRIM, COLOR: ANEW GRAY #SW 7030.
P2	SHERWIN WILLIAMS , INTERIOR PAINT, ACCENT PAINT, COLOR MATCH TO BLUE LOGO, COORDINATION WITH OWNER AND REFER TO THE MONTANA FISH WILDLIFE AND PARK BRAND BOOK.

PLASTIC LAMINATE (PL):

PL1	WILSONART , STANDARD PLASTIC LAMINATE, CABINETS, COLOR: HARBOR HICKORY #Y0816, CASUAL RUSTIC FINISH. UPPER AND BASE CABINETS
PL2	WILSONART , STANDARD PLASTIC LAMINATE, CABINETS, COLOR: BASKET WEAVE 101 # 4965-38, FINE VELVET FINISH. COUNTERTOPS

WINDOW COVERINGS (WND):

WND1	HUNTER DOUGLAS , APPLAUSE, LITERISE BOTTOM-UP, LEGENDS FABRIC, COLOR: PORCELAIN #401. ALL WINDOWS IN PROJECT, ROOMS: 101, 103, 105, 106, 107, 108, 110
-------------	---

FINISH, MATERIALS, AND FURNITURE NOTES

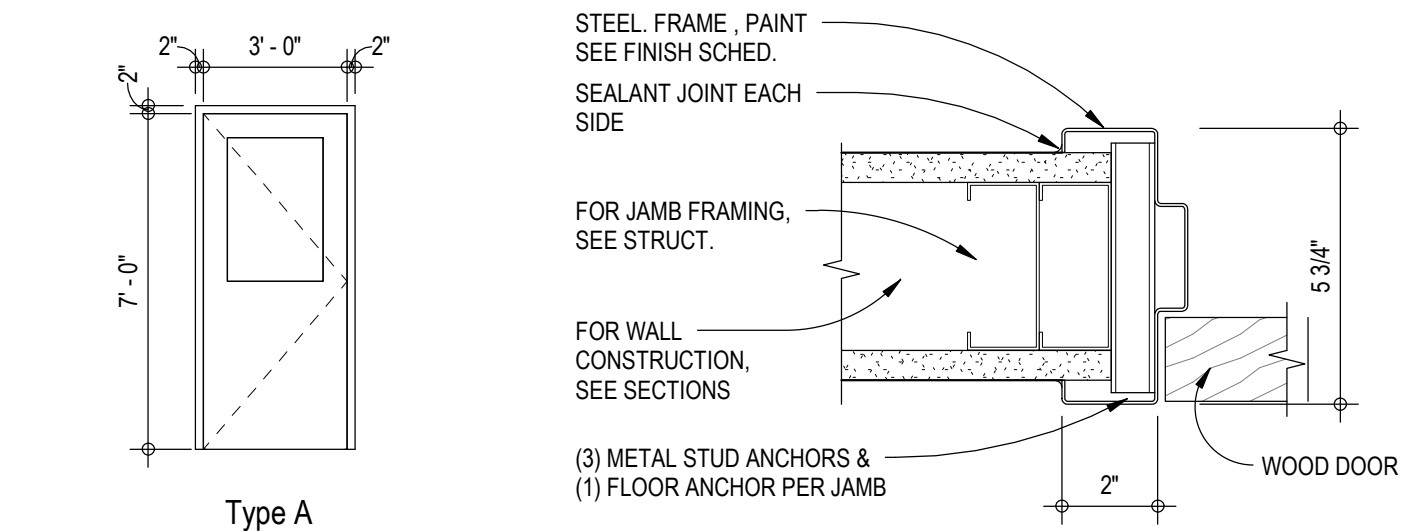
FURNITURE MARKED WITH A * IS EXISTING FURNITURE THAT IS MOVING FROM EXISTING OFFICE LOCATION TO THE NEW LOCATION.

FURNITURE MARKED WITH A # IS NEW FURNITURE THAT THE OWNER WILL NEED PROVIDED IN NEW LOCATION. PLEASE COORDINATE WITH OWNER.

PAINT ALL EXISTING DOOR AND WINDOW FRAMES AND TRIM IN THE NEW CONSTRUCTION **P1**

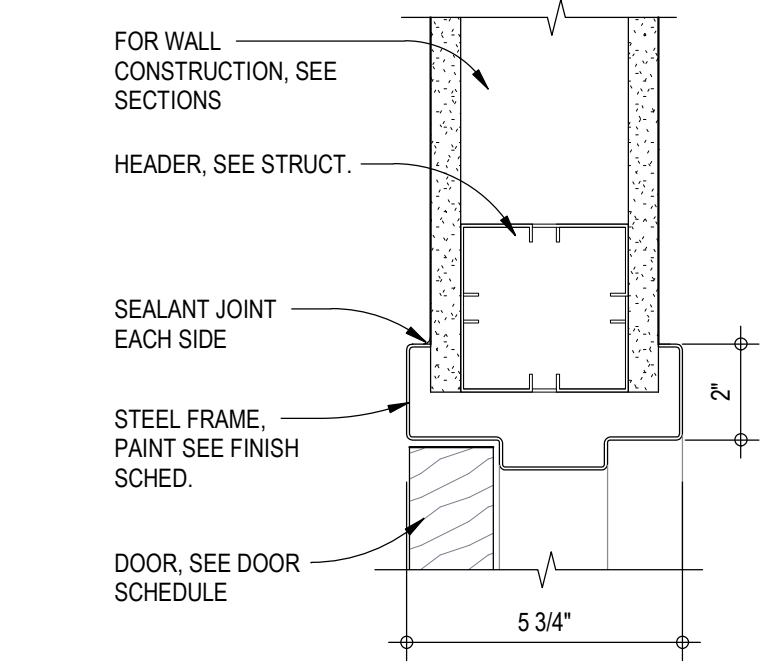
ALL FURNITURE BY OWNER. PLEASE COORDINATE WITH OWNER ON LOCATION OF ELEC. AND DATA BEFORE ROUGH IN.

1 NEW FLOOR PLAN
 SCALE: 1/4" = 1'-0"



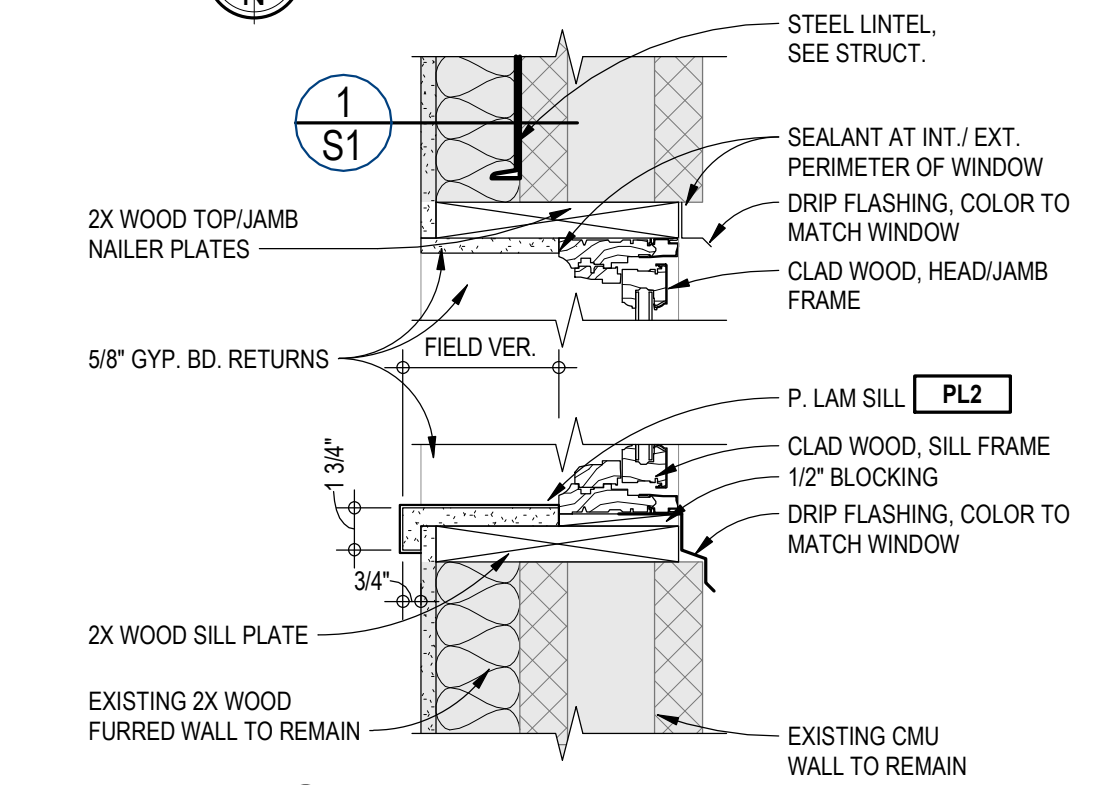
DOOR LEGEND
 SCALE: 1/4" = 1'-0"

2 INTERIOR HM JAMB TYP
 SCALE: 3" = 1'-0"



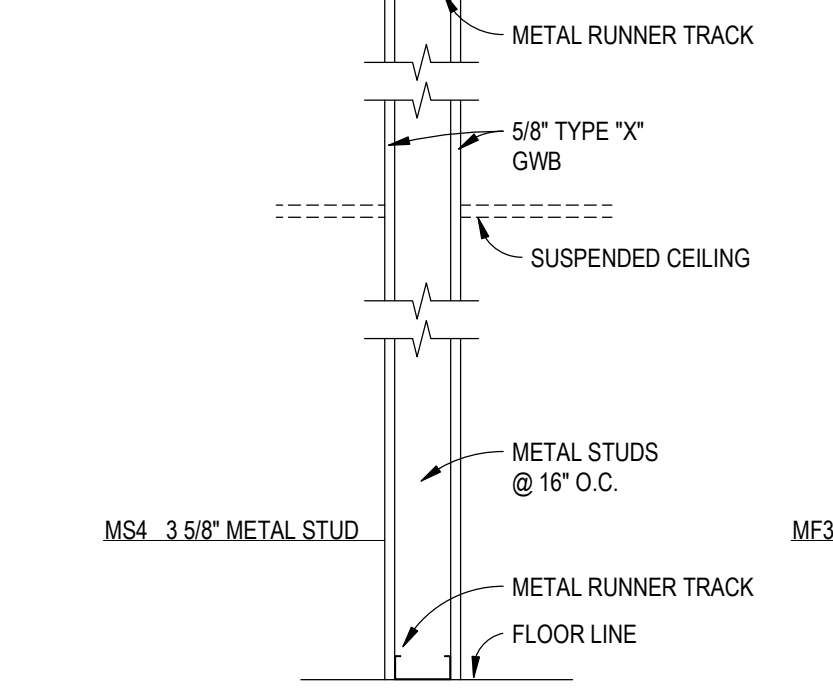
INTERIOR HM HEAD TYP
 SCALE: 3" = 1'-0"

3 WINDOW DETAIL
 SCALE: 1 1/2" = 1'-0"



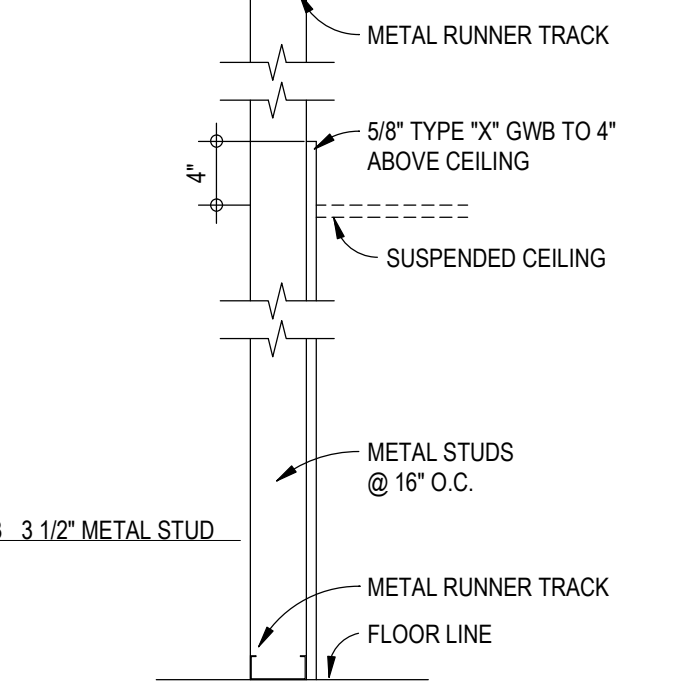
WINDOW DETAIL
 SCALE: 1 1/2" = 1'-0"

4 TYPE MS WALL LEGEND
 SCALE: 1" = 1'-0"



TYPE MS WALL LEGEND
 SCALE: 1" = 1'-0"

5 TYPE MF WALL LEGEND



TYPE MF WALL LEGEND

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REVISIONS

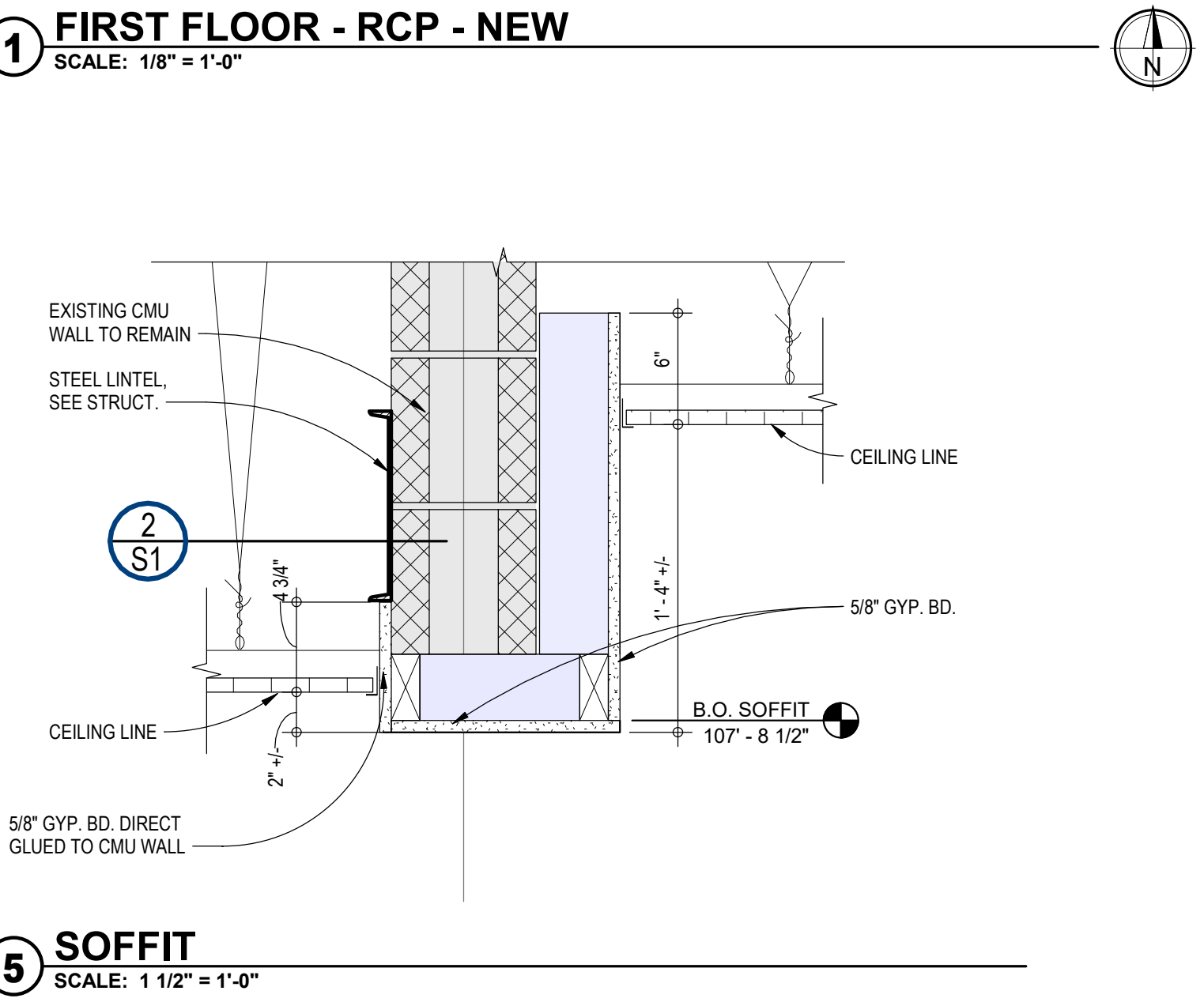
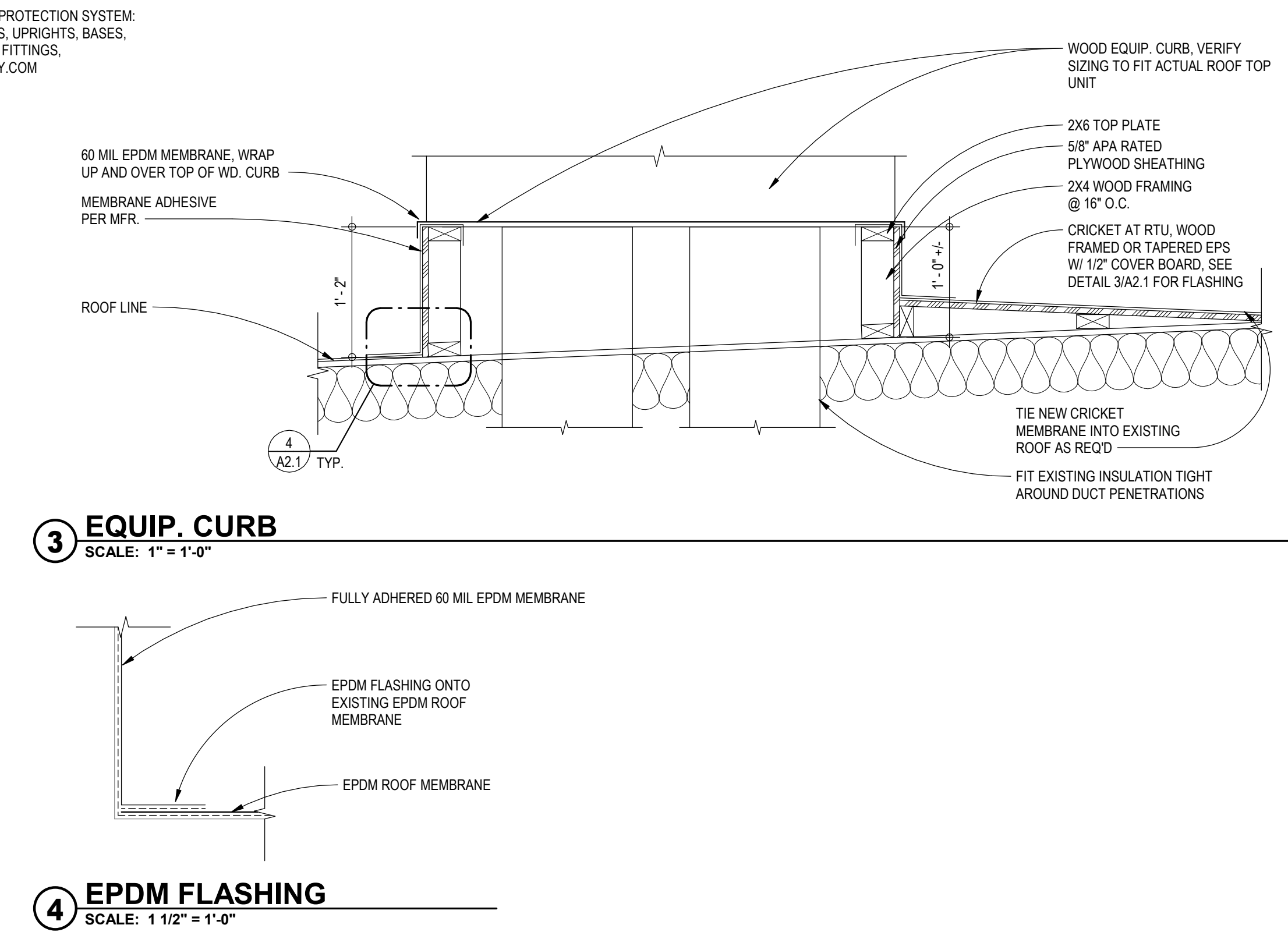
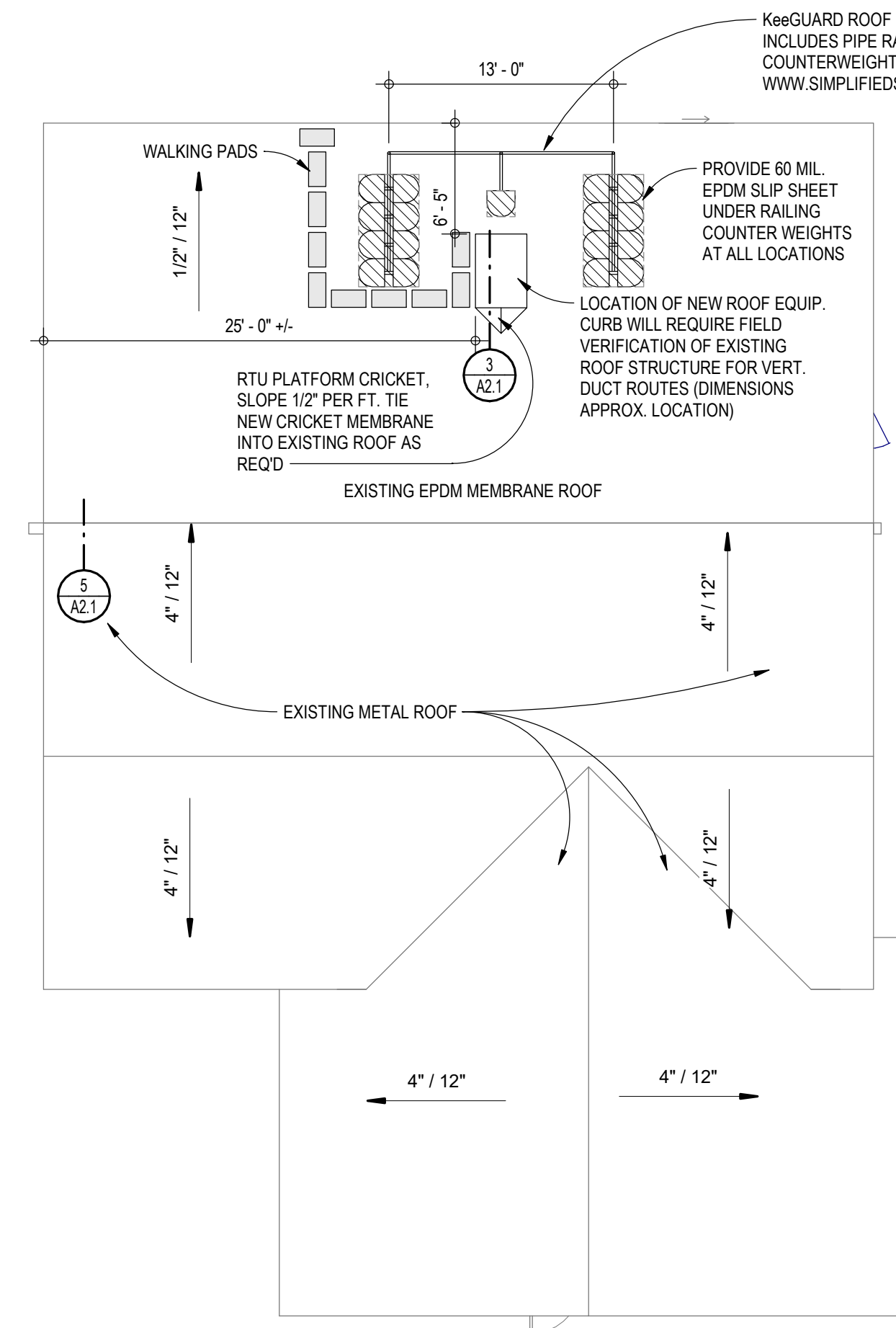
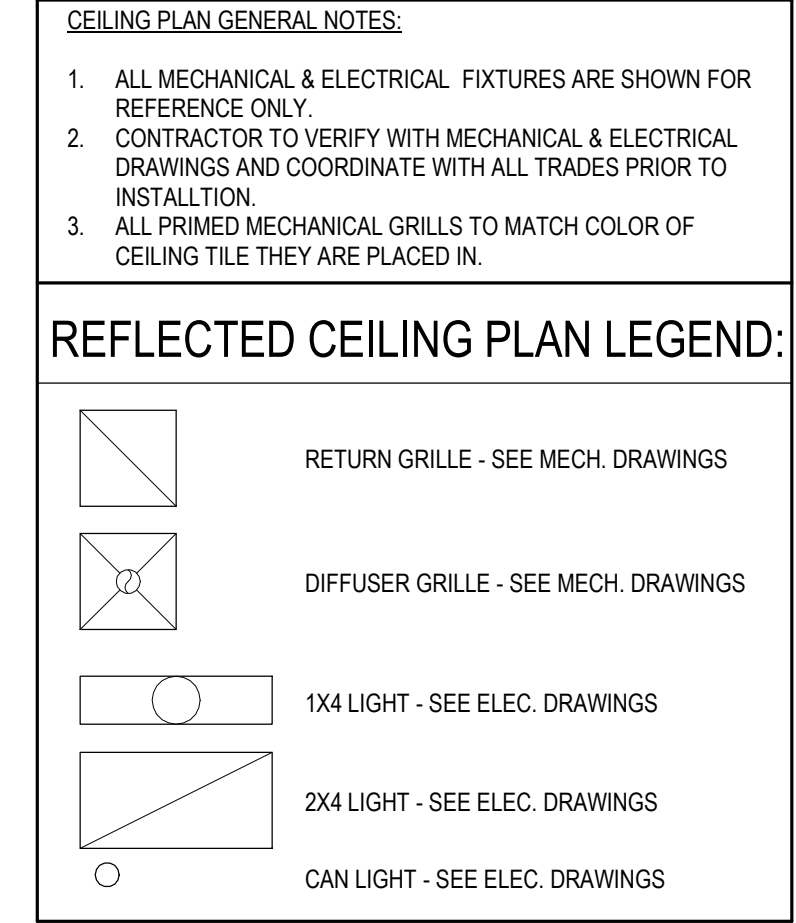
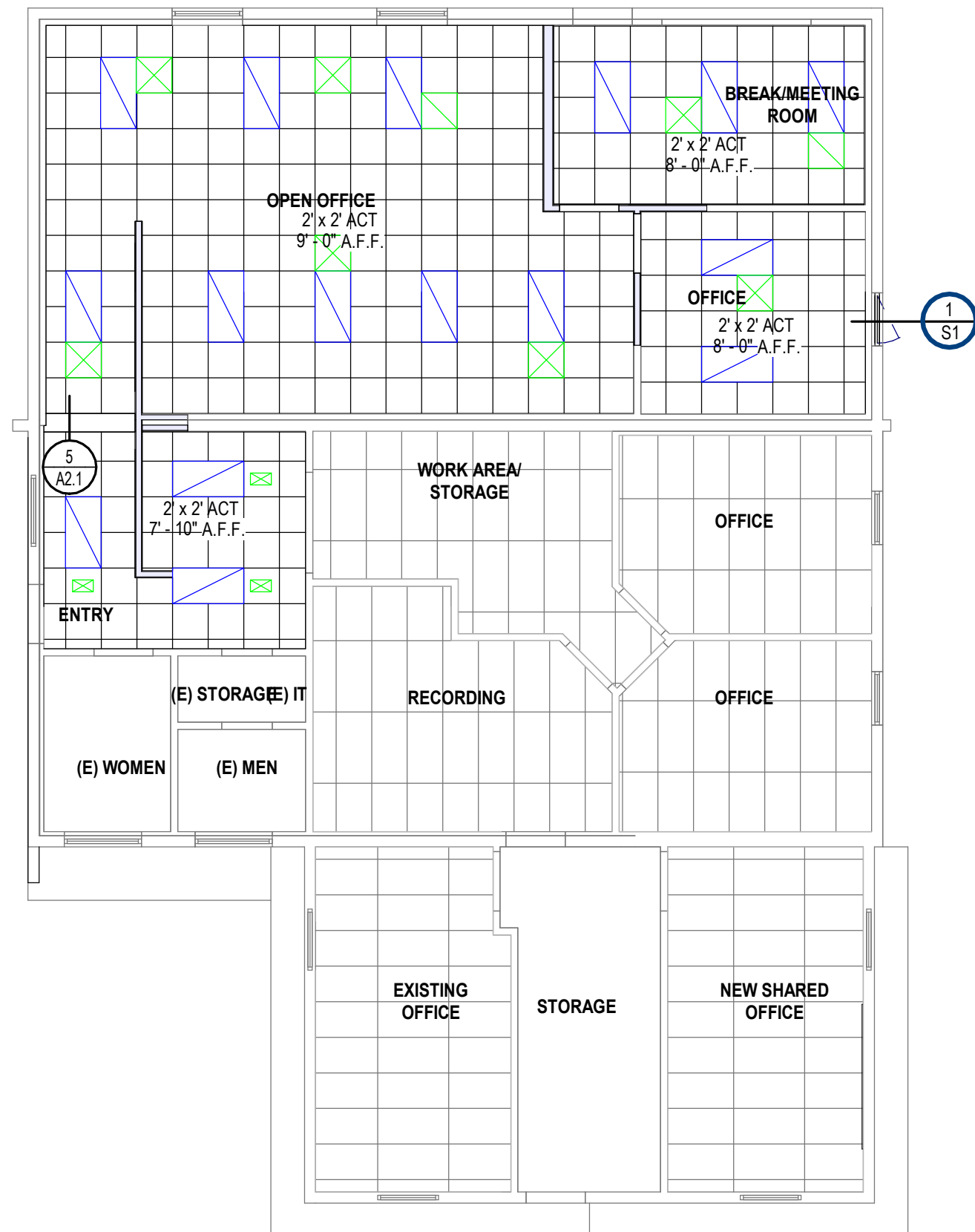
#	DATE

MONTANA FISH, WILDLIFE, & PARKS
MONTANA OUTDOORS OFFICE REMODEL
 930 CUSTER AVENUE, HELENA, MT 59602

FIRST FLOOR PLAN - NEW

23-153-01
 DRAWN BY MMA/MM
 APPROVED CWG
 DATE 10.18.21

A1.1



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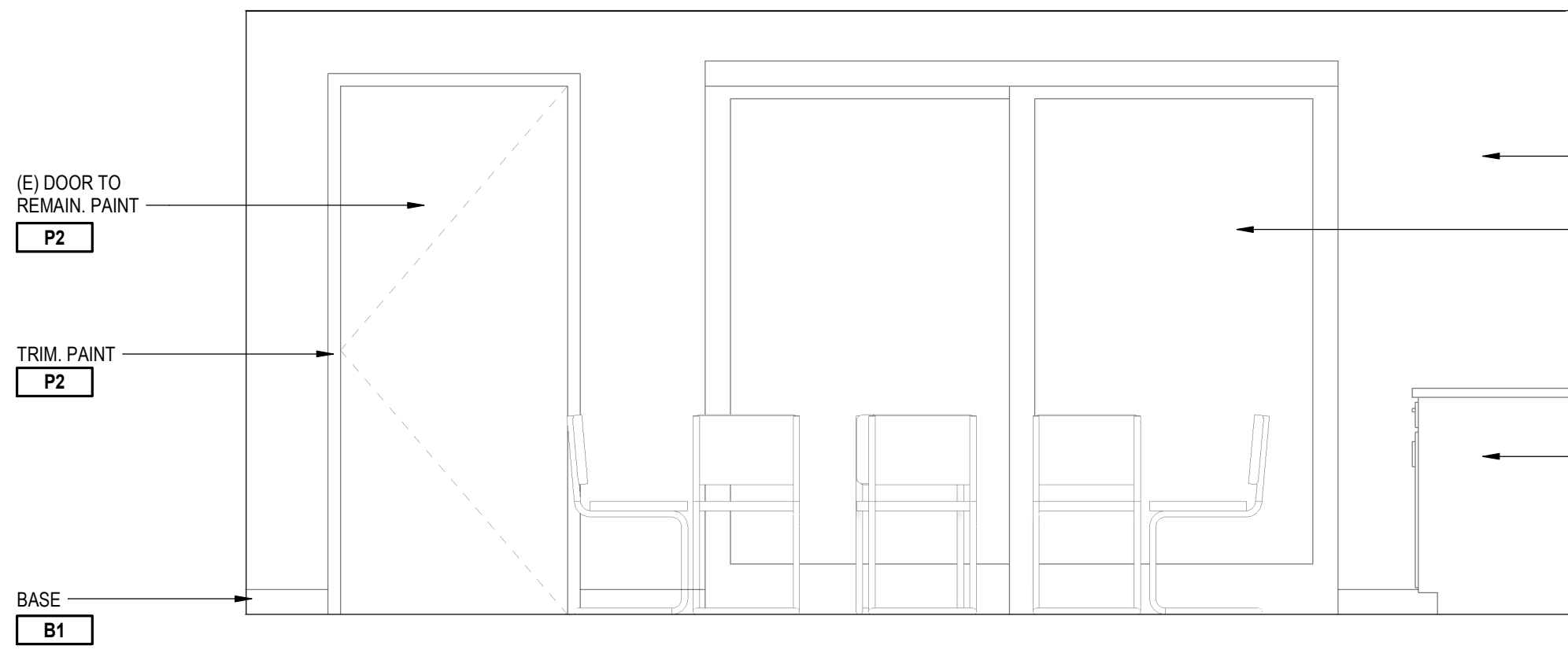
MONTANA FISH, WILDLIFE, & PARKS
MONTANA OUTDOORS OFFICE REMODEL
930 CUSTER AVENUE, HELENA, MT 59602
REFLECTED CEILING PLAN

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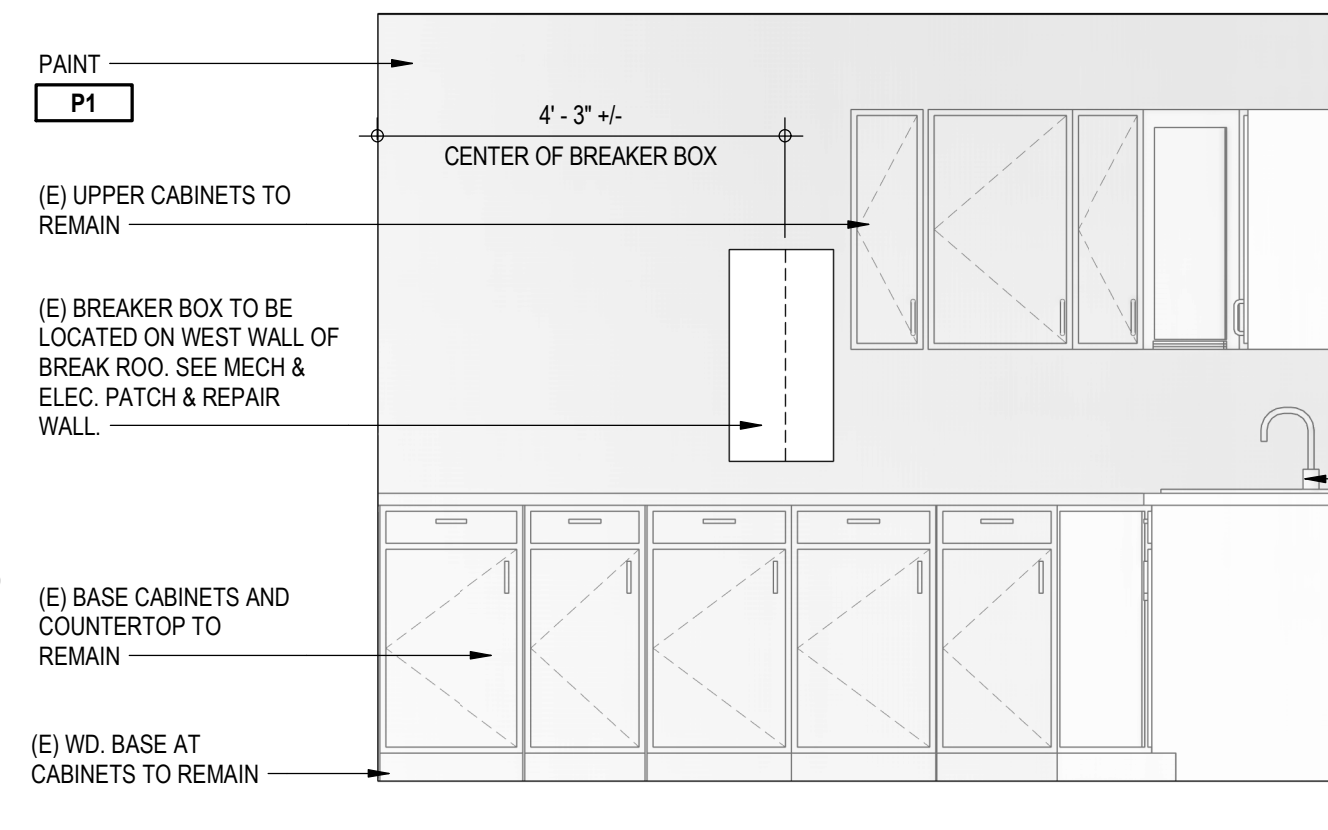
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23-153-01
DRAWN BY MMA
APPROVED CWG
DATE 10.18.21

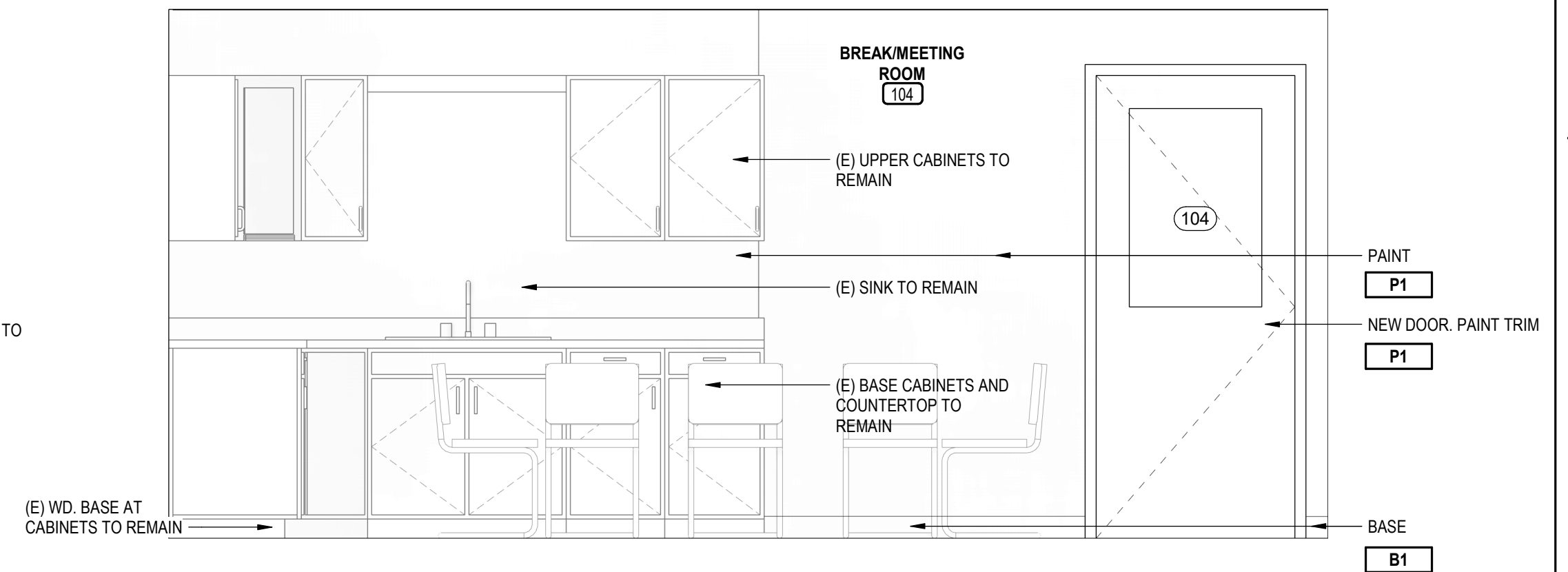
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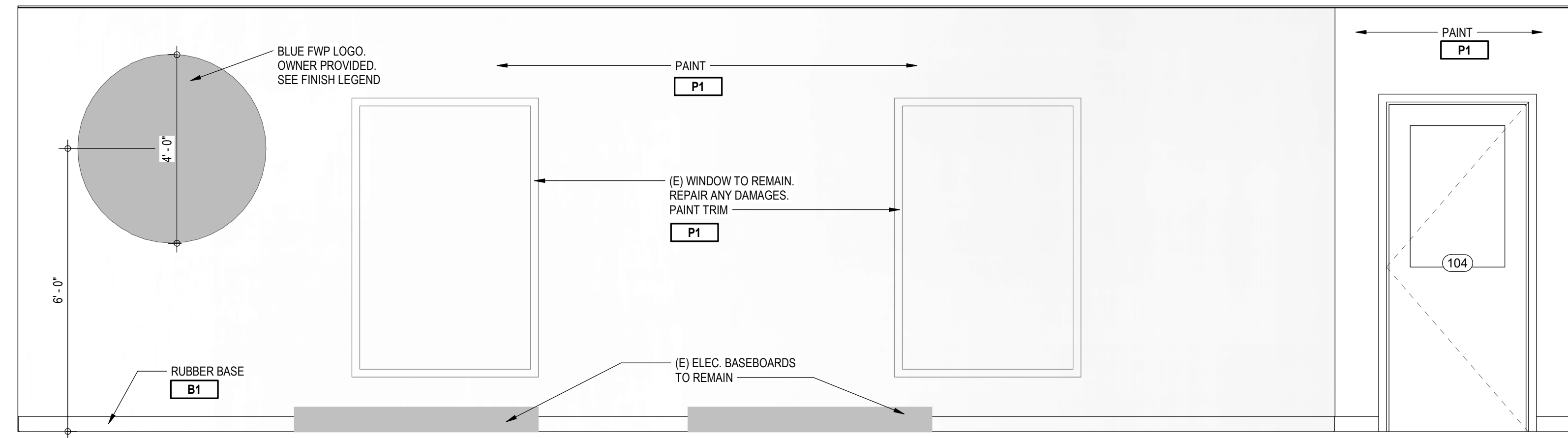
1 BREAKROOM - NORTH
SCALE: 1/2" = 1'-0"



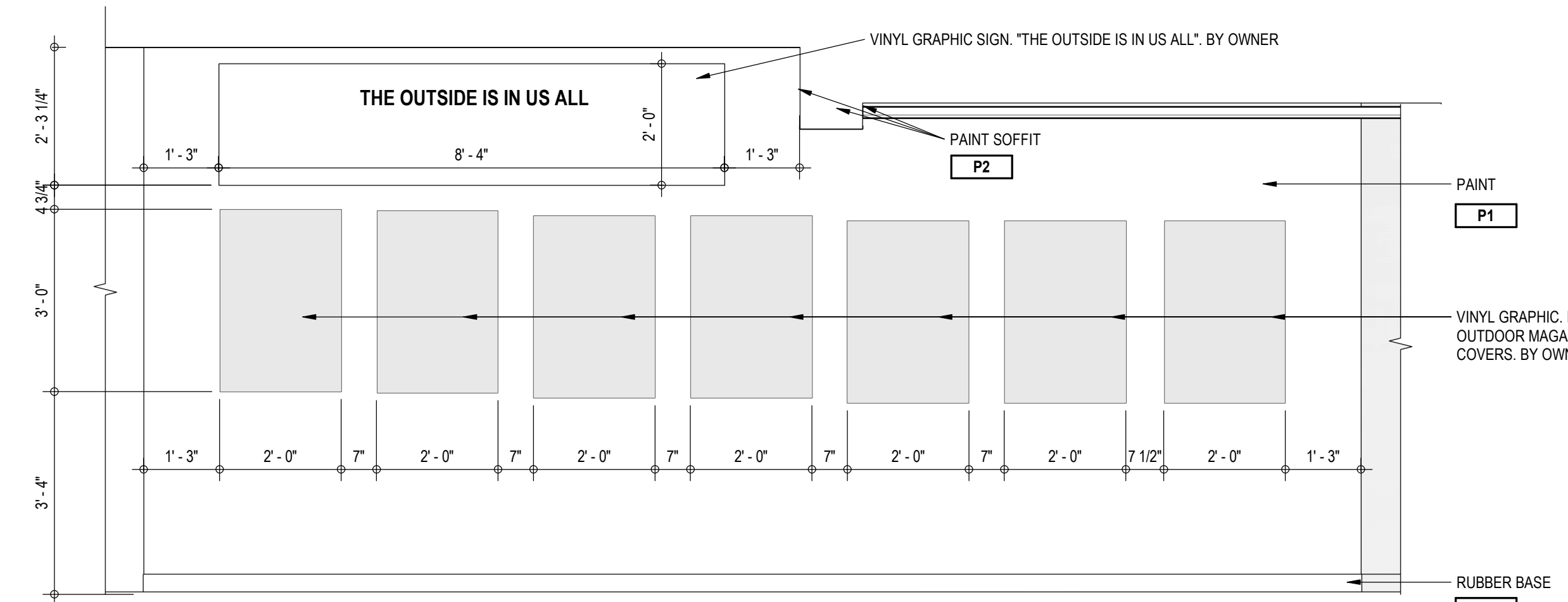
2 BREAK ROOM - EAST
SCALE: 1/2" = 1'-0"



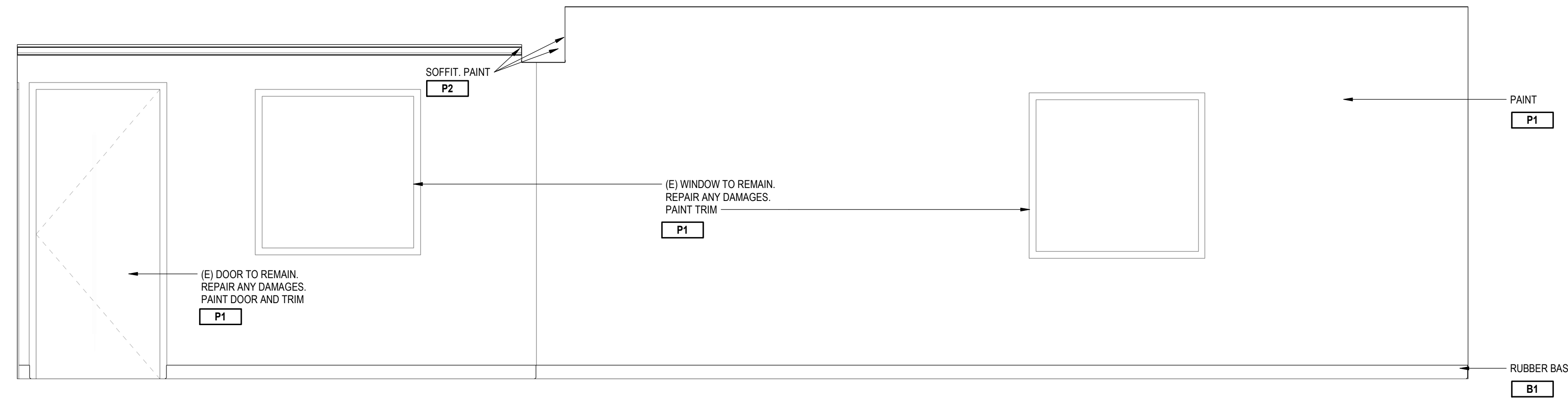
3 BREAK ROOM 111 - SOUTH
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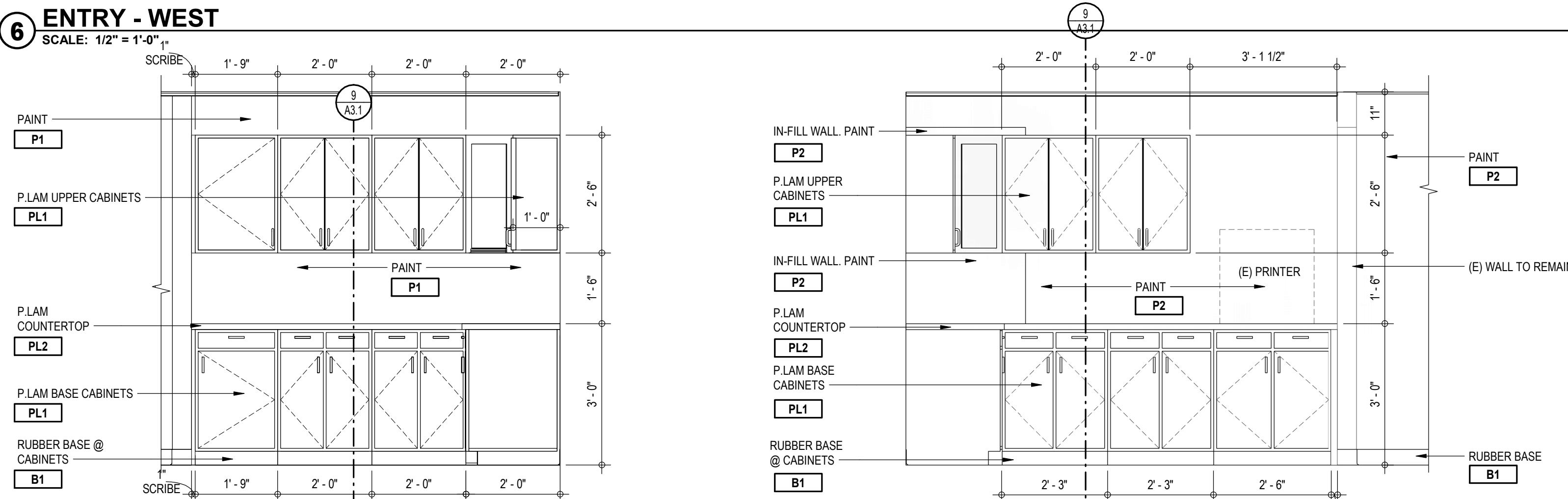
4 OFFICE 104 - NORTH
SCALE: 1/2" = 1'-0"



5 ENTRY FEATURE WALL
SCALE: 1/2" = 1'-0"

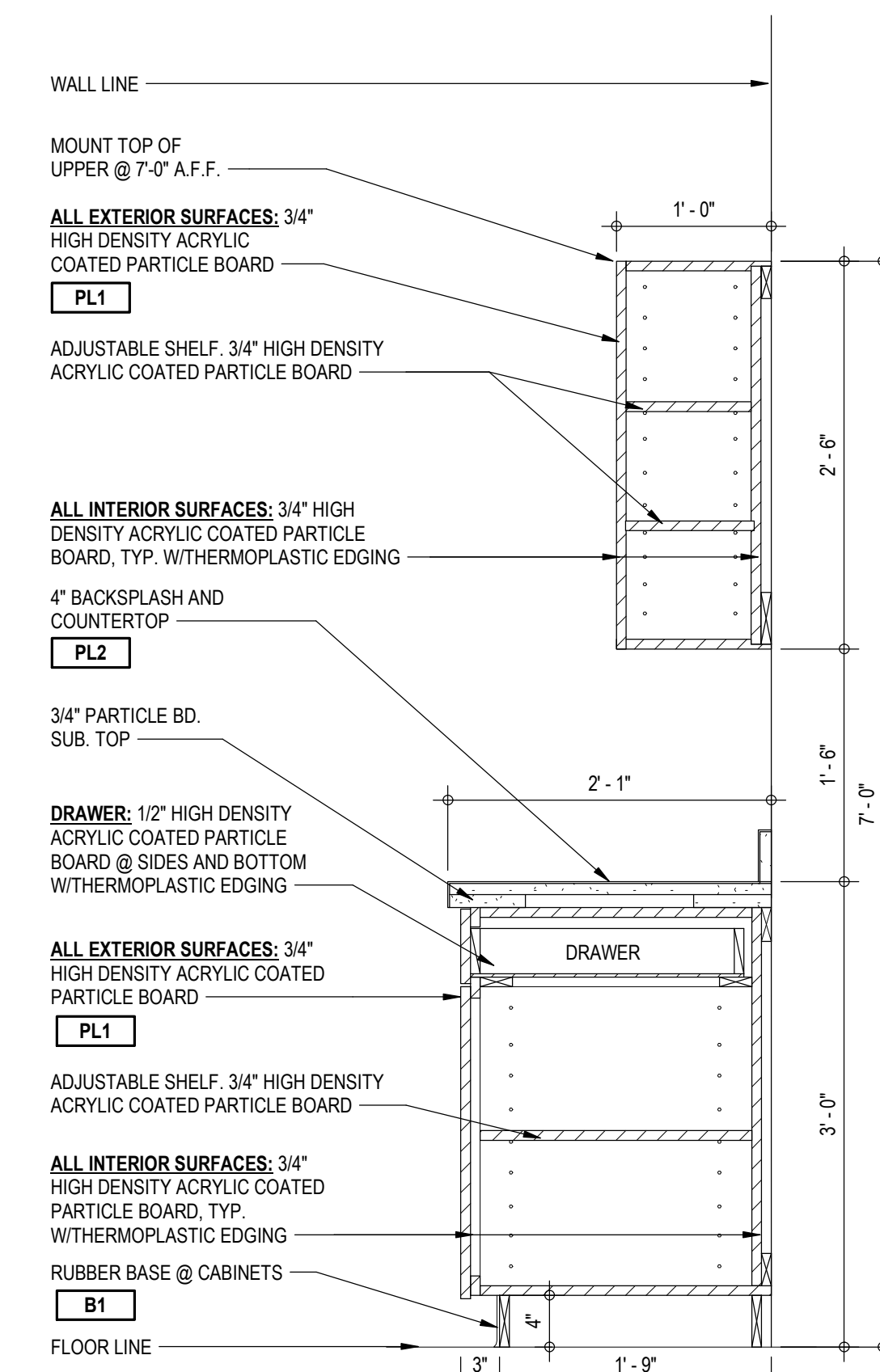


6 ENTRY - WEST
SCALE: 1/2" = 1'-0"



7 WORK AREA 109 - WEST
SCALE: 1/2" = 1'-0"

8 WORK AREA 109 - NORTH
SCALE: 1/2" = 1'-0"



9 CASEWORK DETAIL
SCALE: 1" = 1'-0"

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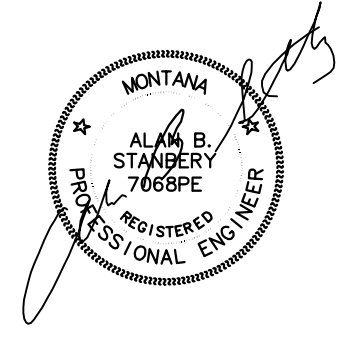


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REVISIONS	
#	DATE

MONTANA FISH, WILDLIFE, & PARKS
MONTANA OUTDOORS OFFICE REMODEL
 930 CUSTER AVENUE, HELENA, MT 59602
INTERIOR ELEVATIONS

23-153-01
 DRAWN BY MM
 APPROVED C.W.G.
 DATE 10.18.21
A3.1



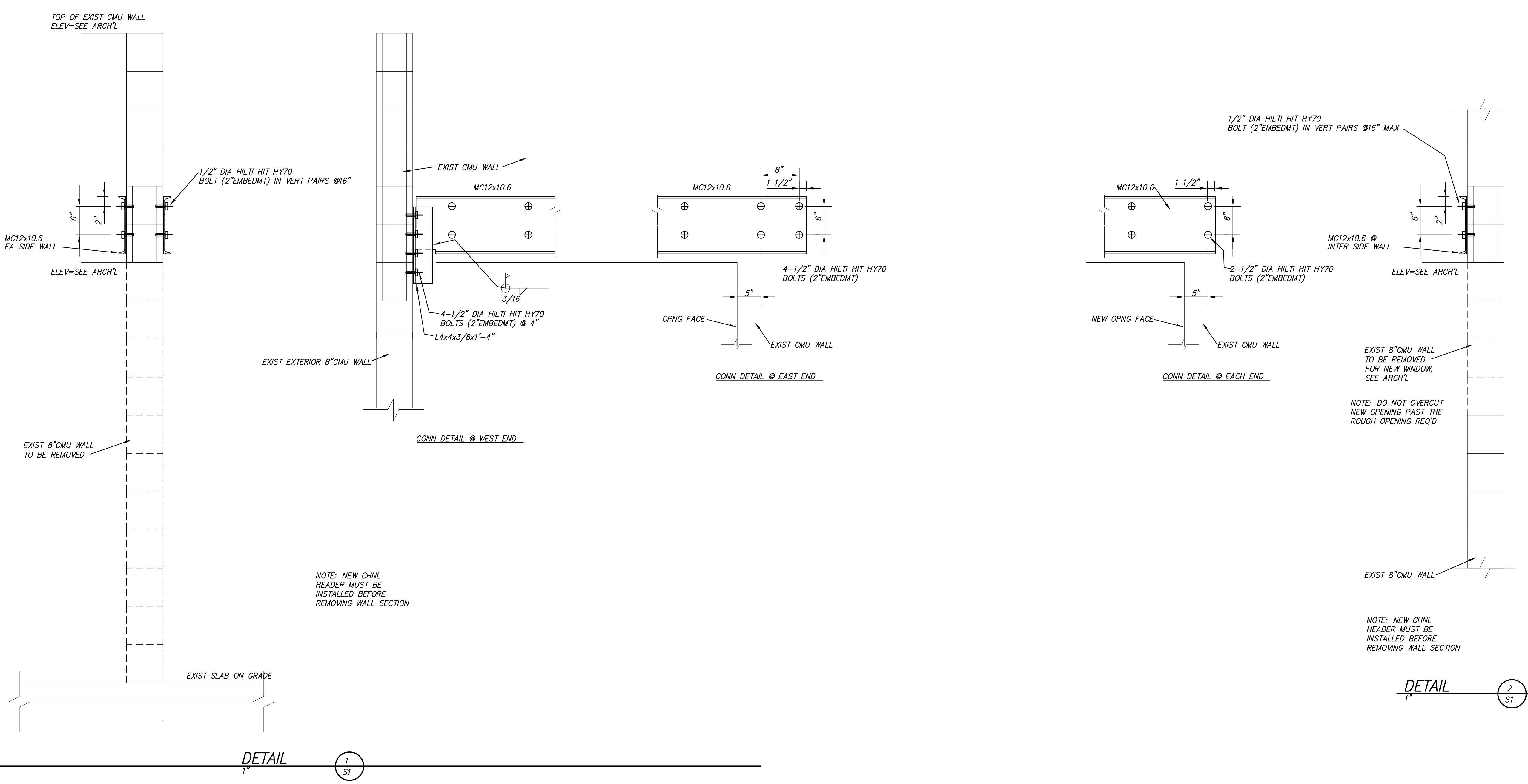
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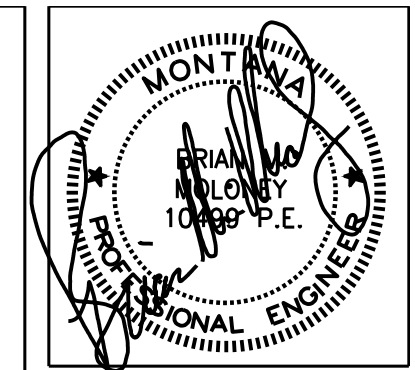
REVISIONS	
#	DATE

MONTANA FWP PROJECT # 7199172
MONTANA OUTDOORS OFFICE REMODEL
 930 CUSTER AVE, HELENA, MT 59602
STRUCTURAL DETAILS

23-153-01
DRAWN <u>ABS</u>
APPROVED <u>ABS</u>
DATE <u>10/18/21</u>

S1





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 (406) 442-2340
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NO.	REVISIONS

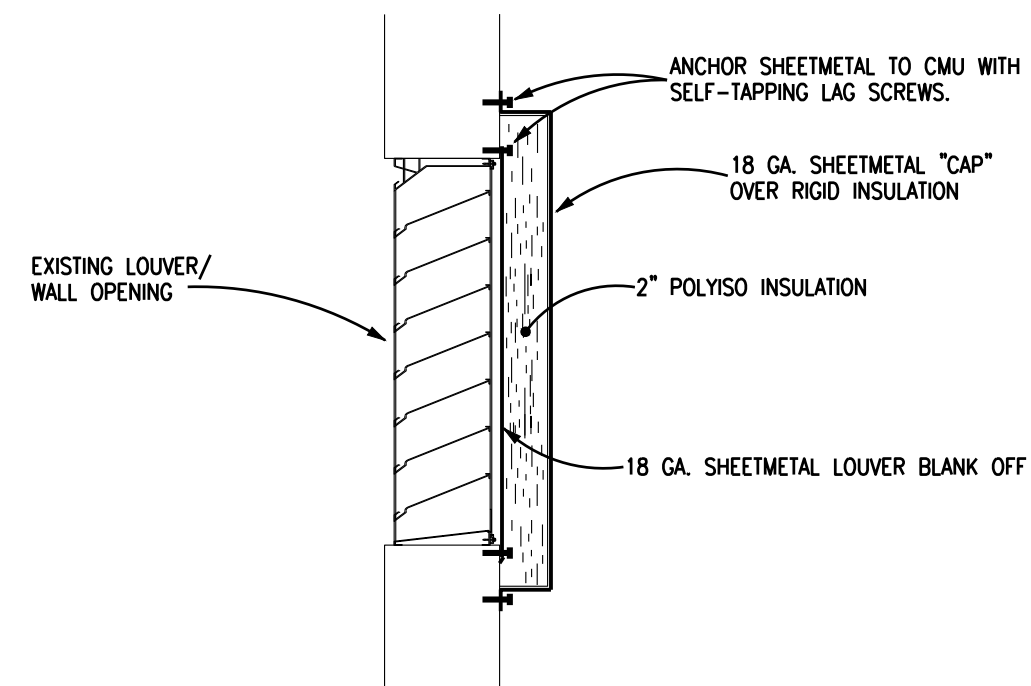
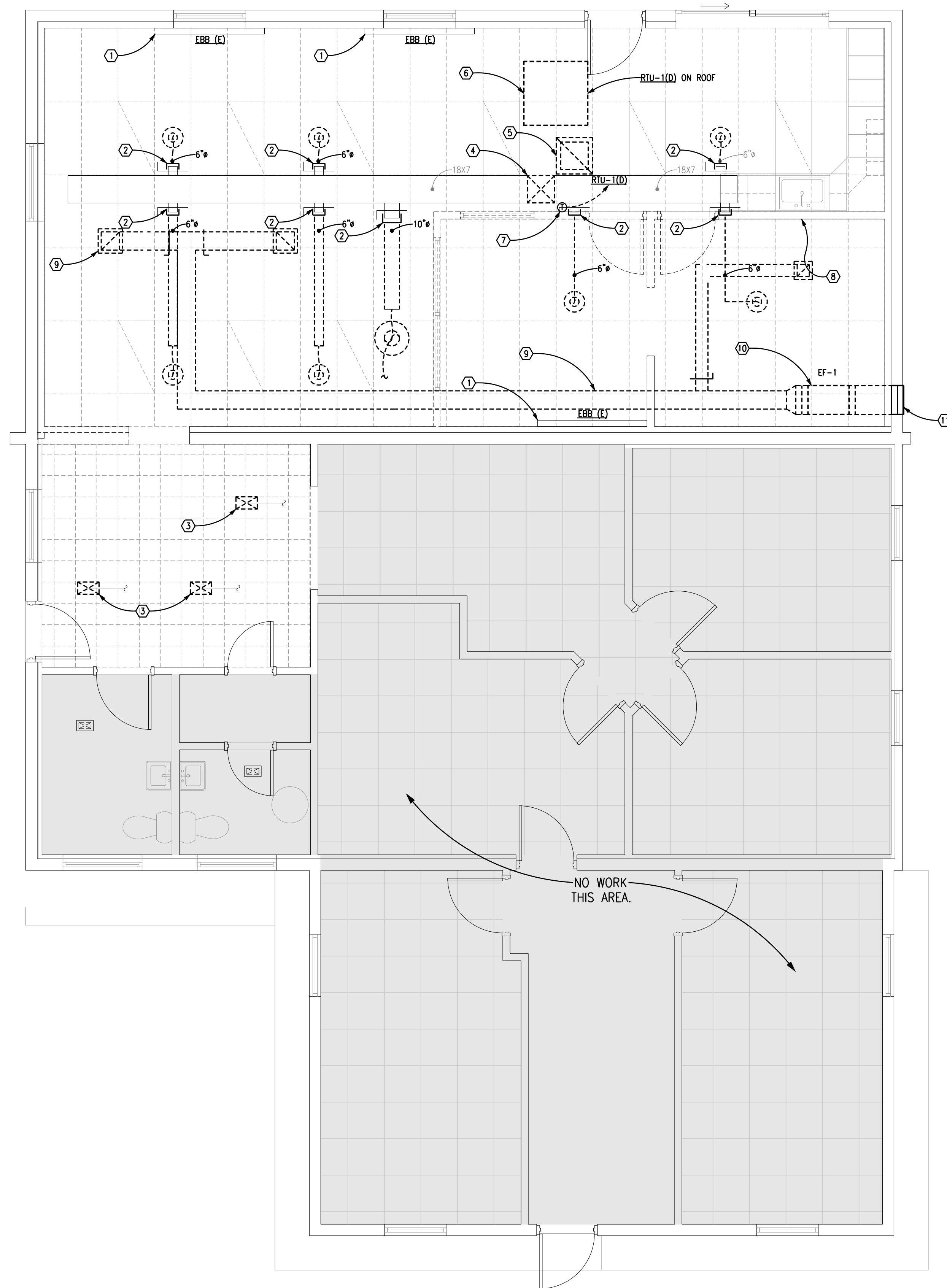
MONTANA FWP - CWG PROJECT #23-153-01 FWP PROJECT #7199172
MONTANA OUTDOORS OFFICE REMODEL
 930 CUSTER AVENUE, HELENA, MT 59602
HVAC DEMOLITION

23-153-01
 DRAWN BY: AML
 APPROVED: BMM
 DATE: 10.18.2021

M-1

WORK NOTES:

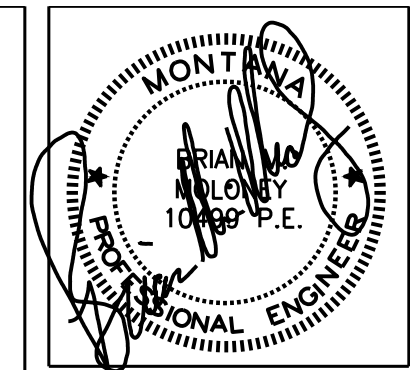
- ① ELECTRIC BASEBOARD HEATER SHALL REMAIN IN SERVICE.
- ② CAP DUCT AT MAIN DUCT. REMOVE RUNOUT DUCT & GRILLE.
- ③ RUNOUT DUCT TO THIS GRILLE SHALL REMAIN. REMOVE GRILLE & EXTEND DUCT AS REQUIRED FOR INSTALLATION OF NEW GRILLE.
- ④ REMOVE DUCT UP THROUGH ROOF STRUCTURE. HORIZONTAL DUCT SHALL REMAIN.
- ⑤ REMOVE CEILING RETURN GRILLE & DUCT UP THROUGH ROOF STRUCTURE.
- ⑥ REMOVE EXISTING ROOFTOP UNIT RTU-1(D) & DUCTWORK ON ROOF. OPENINGS THROUGH ROOF STRUCTURE TO REMAIN. PREPARE ROOF FOR INSTALLATION OF NEW PLATFORM & RTU.
- ⑦ REMOVE WALL MOUNTED THERMOSTAT SERVING RTU-1(D).
- ⑧ CAP HW, CW PIPING IN WALL. ALL PIPING SERVING EXISTING FUNCTIONAL SINK SHALL REMAIN IN SERVICE.
- ⑨ DEMO EXHAUST DUCT AND GRILLES IN THEIR ENTIRETY.
- ⑩ DEMO EXISTING EXHAUST FAN. REMOVE ELECTRICAL AND CONTROLS BACK TO NEAREST JUNCTION BOX.
- ⑪ ABANDON LOUVER IN PLACE. CAP AND SEAL INTERIOR OF LOUVER AS PER DETAIL 2/M-1.
- ⑫ VERIFY ROUTING OF DUCT RUNOUT SERVING THIS GRILLE. DEMO AND CAP IN APPROPRIATE LOCATION.



② LOUVER BLANK OFF DETAIL
 M-1

1
 M-1
 HVAC DEMOLITION
 1/4" = 1'-0"

NO WORK THIS AREA.



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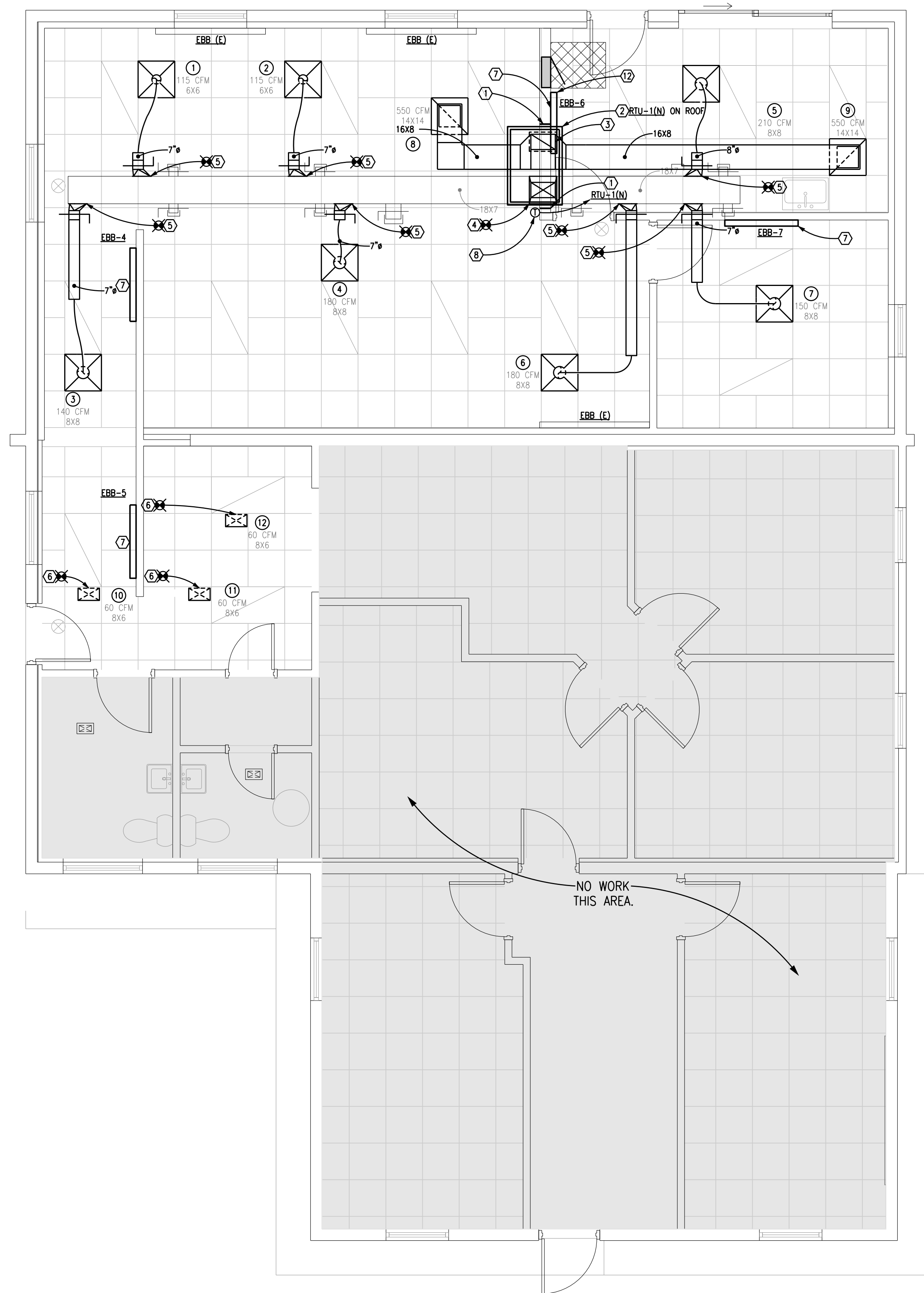
NO.	REVISIONS

MONTANA FWP - CWG PROJECT #23-153-01 FWP PROJECT #7199172
MONTANA OUTDOORS OFFICE REMODEL
 930 CUSTER AVENUE, HELENA, MT 59602
HVAC NEW WORK

23-153-01
 DRAWN BY: BJB
 APPROVED: BMM
 DATE: 10.18.2021
M-2

WORK NOTES:

- 1 WALL PARTITION FRAMING SHALL BE CUT OUT AROUND DUCTWORK IN THIS AREA. BRACE WALL PARTITION TO ROOF STRUCTURE OUTSIDE OF THIS AREA.
- 2 FURNISH & INSTALL RTU-1(N) ON PLATFORM. CONSTRUCT PLATFORM AS PER ARCHITECTURAL PLANS. DO NOT CUT ANY STRUCTURAL MEMBERS.
- 3 12X16 DUCT THROUGH EXISTING ROOF PENETRATION TO RTU-1(N) ON PLATFORM ABOVE.
- 4 10X16 DUCT THROUGH EXISTING ROOF PENETRATION TO RTU-1(N) ON PLATFORM ABOVE.
- 5 CONNECT NEW DUCT RUNOUT TO EXISTING MAIN DUCT.
- 6 EXTEND/MODIFY DUCT AS NECESSARY FOR INSTALLATION OF NEW CEILING. FURNISH & INSTALL NEW CEILING GRILLE. VERIFY GRILLE SIZE PRIOR TO ORDERING.
- 7 FURNISH & INSTALL NEW ELECTRIC BASEBOARD HEATER ON WALL. INSTALL HEATER IN LOCATION SUCH THAT NEW WIRING SERVING HEATER CAN BE ROUTED IN NEW PARTITION WALLS.
- 8 FURNISH & INSTALL NEW WALL MOUNTED THERMOSTAT SERVING RTU-1(N).
- 9 12X16 RETURN AIR DUCT FROM BELOW. OFFSET DUCT IN RAISED PLATFORM.
- 10 10X16 UP TO RTU-1(N). SEE 1/M-2 FOR CONTINUATION.
- 11 10X16 SUPPLY AIR DUCT DOWN THROUGH PLATFORM. SEE 1/M-2 FOR CONTINUATION.
- 12 INSTALL EBB-6 SO IT DOES NOT INTERFERE WITH SWING OF DOOR OR OBSTRUCT ACCESS TO ELECTRICAL PANEL.



HVAC NEW WORK
 1/4" = 1'-0"

ALTERNATE BID #2: ROOFTOP UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	ESP	FAN HP	HEATING		NOMINAL COOLING (TONS) / SEER	VOLT/PH	MCA/MOCP	ACCESSORIES AND NOTES
						INPUT MBH	OUTPUT MBH				
RTU-1(N)	FRASER-JOHNSTON	PCG4A300502X4	1090	0.5	0.33	-	-	2.5 / 14.0 SEER	230/1	18.8/30	1

1 WITH VARIABLE SPEED HIGH STATIC MOTOR, HURRICANE KIT, ANCHOR UNIT TO NEW PLATFORM, SEE ARCHITECTURAL PLANS.

GRILLE AND REGISTER SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	MATERIAL	FINISH	ACCESSORIES	BORDER	FASTENING	THROW
S-1	NAILOR	7500	MOD. CORE SUPPLY	STEEL	WHITE	-	TYPE L	LAY IN	MODULAR CORE 4-WAY
R-1	NAILOR	61EC	EGGCRATE RETURN	STEEL	WHITE	-	TYPE PLS	LAY IN	-

ELECTRIC BASEBOARD SCHEDULE

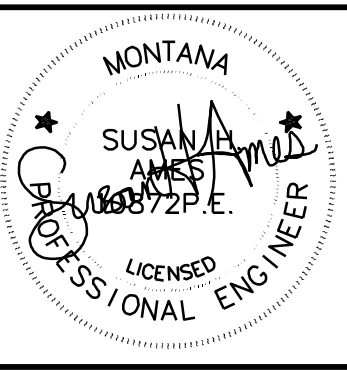
MARK	MFR	CATALOG NO.	TYPE	LENGTH	BTU/HR	WATTS	VOLTS/PHASE	AMPS	CONTROL	NOTES
EBB-4	OUELLET	OLDU1002-HA	BASEBOARD	50"	3412	1000	120/1	8.3	INTEGRAL T-STAT	1
EBB-5	OUELLET	OLDU1002-HA	BASEBOARD	50"	3412	1000	120/1	8.3	INTEGRAL T-STAT	1
EBB-6	OUELLET	OLDU0752-HA	BASEBOARD	40"	2559	750	120/1	6.3	INTEGRAL T-STAT	1
EBB-7	OUELLET	OLDU1002-HA	BASEBOARD	50"	3412	1000	120/1	8.3	INTEGRAL T-STAT	1

1

GRILLE AND REGISTER BALANCE SCHEDULE

MARK	TYPE	SIZE	BAL. CFM	MARK	TYPE	SIZE	BAL. CFM	MARK	TYPE	SIZE	BAL. CFM	MARK	TYPE	SIZE	BAL. CFM
1	S-1	6X6	115	4	S-1	8X8	180	7	S-1	8X8	150	10	S-2	8X6	60
2	S-1	6X6	115	5	S-1	8X8	210	8	R-1	14X14	550	11	S-2	8X6	60
3	S-1	8X8	140	6	S-1	8X8	180	9	R-1	14X14	550	12	S-2	8X6	60

COORDINATION NOTE
 IT IS ABSOLUTELY NECESSARY THAT ALL TRADES COORDINATE WITH EACH OTHER AND VERIFY THAT THERE ARE NO CONFLICTS IN LOCATION OF DUCTS, CONDUITS, SPRINKLER HEADS, DIFFUSERS, ELECTRICAL BOXES, EQUIPMENT, AND OTHER ITEMS THROUGHOUT THIS PROJECT BEFORE FINAL PLACEMENT OF MATERIALS.



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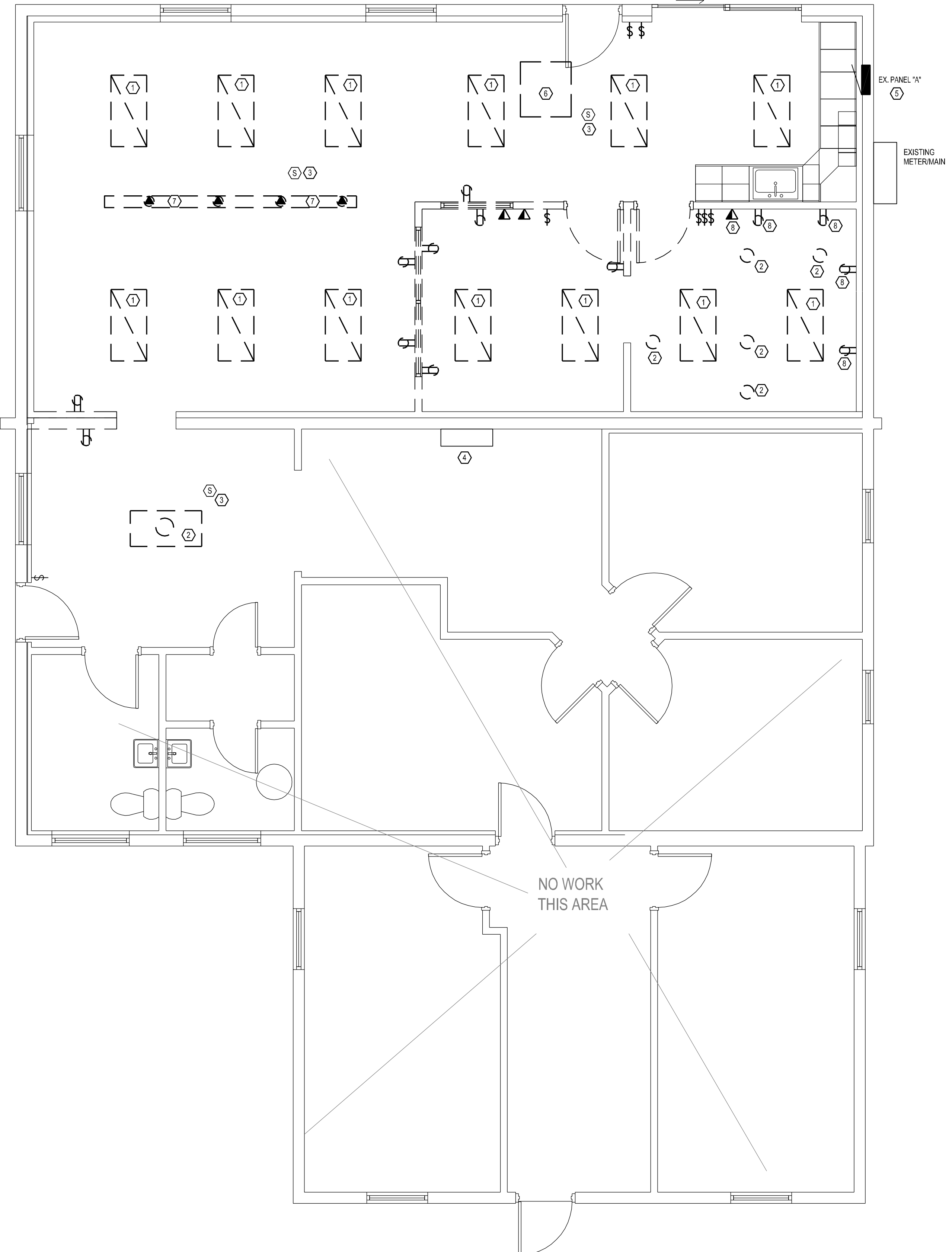
#	REVISIONS	DATE

REVISIONS

MONTANA FWP - CWG PROJECT #23-153-01 FWP PROJECT #7199172
MONTANA OUTDOORS OFFICE REMODEL
 930 CUSTER AVENUE, HELENA, MT 59602
ELECTRICAL DEMO PLAN, SPECIFICATIONS, LEGEND AND DETAIL

23-153-01
 DRAWN BY: SHA
 APPROVED: SHA
 DATE: 10.18.2021

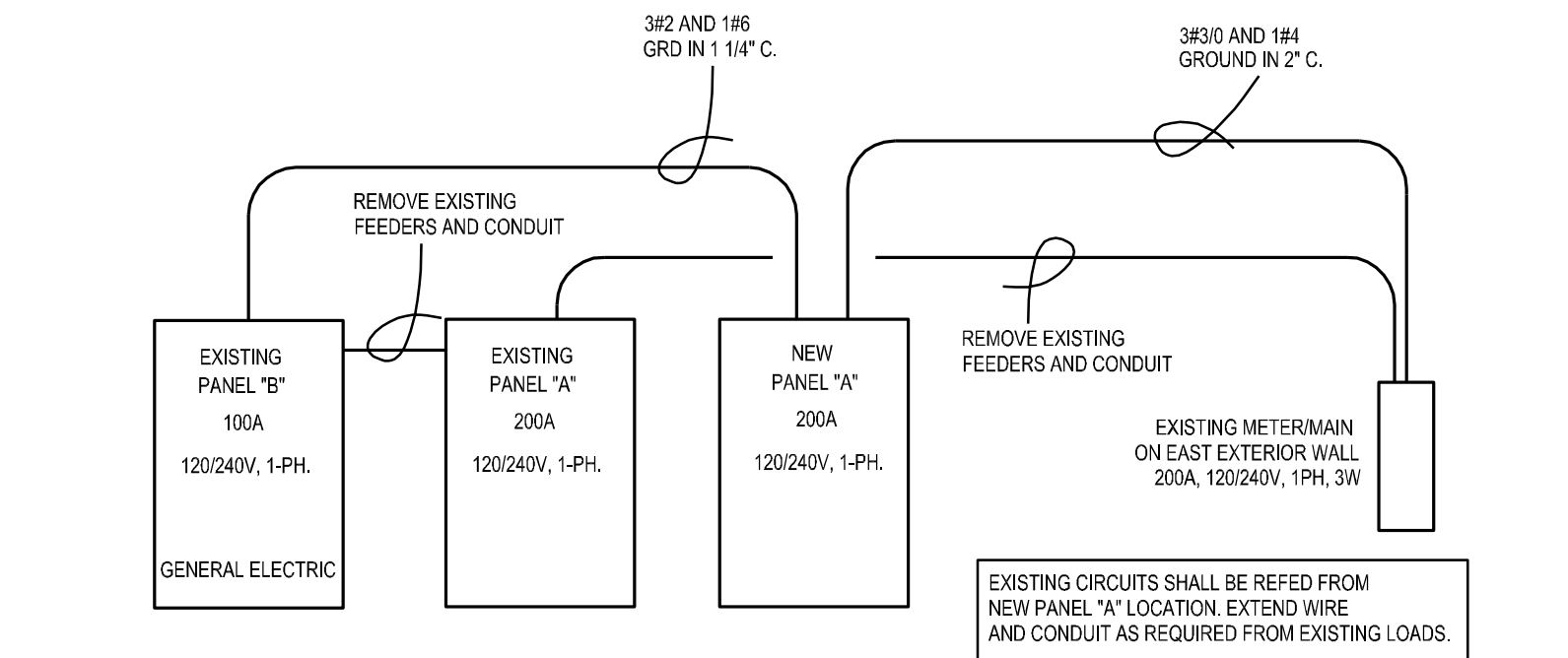
E1.1



Demolition/Remodel Notes:
 Existing services in the building shall be kept operable after remodel is complete and if removal of existing items adversely affects operation of existing equipment, the Contractor shall do whatever re-routing and re-connection of existing systems that is necessary to re-establish useable items in the building. Maintain circuit continuity to all remaining devices, regardless of usage.
 Remove conduit to a point where it no longer interferes with construction and is concealed.
 For conduit buried in concrete or CMU walls, cut conduit off flush with floor and plug conduit.
 Remove all conductors back to panelboard or last live electrical connection. Revise electrical connections as required to remove items listed herein or shown on plans.
 Contractor shall give the Owner the option to keep electrical items of his choice. Contractor is responsible for disposal of all remaining electrical items.
 Contractor shall field verify all required items to remain and to be removed. Contractor shall provide new typewritten panel directory for all panels to remain with accurate loads indicated.

CONSTRUCTION NOTES:
 ① EXISTING LIGHT FIXTURES TO BE REPLACED. SEE LIGHT FIXTURES SCHEDULE ON SHEET E1.2 FOR NOTES REGARDING BASE BID AND ALTERNATE #1 WORK.
 ② EXISTING LIGHT FIXTURE TO BE REMOVED. REMOVE WIRE AND CONDUIT TO NEXT DEVICE IN CIRCUIT.
 ③ EXISTING SMOKE DETECTOR TO BE REUSED IN SAME LOCATION. RETAIN FOR REUSE.
 ④ EXISTING HONEYWELL FIRE ALARM PANEL TO REMAIN.
 ⑤ EXISTING PANEL "A" TO BE REMOVED AND REPLACED IN NEW LOCATION. PROVIDE WIREWAY ABOVE EXISTING LOCATION FOR EXTENSION OF CIRCUITS TO NEW PANEL LOCATION. SEE NEW PLAN.
 ⑥ EXISTING RTU TO BE REMOVED AS PART OF ALTERNATE #2. REMOVE WIRE AND CONDUIT AND RETAIN CIRCUIT FOR REUSE.
 ⑦ EXISTING WIREWAY AND RECEPTACLES FOR FORMER PRINTING EQUIPMENT. REMOVE ALL DEVICES, WIREWAY, WIRING AND CONDUIT BACK TO PANEL.
 ⑧ EXISTING RECEPTACLE TO BE RELOCATED IN SAME WALL. SEE NEW PLAN FOR MORE INFORMATION.

ELECTRICAL LEGEND			
	PANEL OR LOAD CENTER		SWITCH, SPST
	TELEPHONE TERMINAL BOARD		SWITCH, DIMMER
	HOME RUN TO PANEL, NO. OF ARROWS INDICATES NO. OF CIRCUITS.		OUTLET, DUPLEX
	NO. OF HASH MARKS INDICATES NO. OF CONDUCTORS IN CONDUIT. NO HASH MARKS INDICATES TWO CONDUCTORS-GROUND. CONDUCTORS ARE NOT INCLUDED IN WIRE COUNT.		OUTLET, GROUND FAULT INTERRUPTER
	CONDUIT, FLEX		OUTLET, MOTOR
	CIRCUIT CONCEALED IN CEILING OR WALL		OUTLET, SPECIAL PURPOSE
	LIGHT FIXTURE, SURFACE MOUNT		VOICE/DATA OUTLET, BOX AND CONDUIT 3/4" CONDUIT TO ACCESSIBLE CLG. SPACE
	LIGHT FIXTURE, RECESSED MOUNT		OCCUPANCY SENSOR
	LIGHT FIXTURE, CEILING MOUNTED		JUNCTION BOX
	LIGHT FIXTURES, WALL MOUNTED		WP WEATHERPROOF
	EXIT LIGHT, CEILING MOUNTED		GFI GROUND FAULT INTERRUPTER
	EXIT, WALL MTD. ARROW SHOWS DIRECTION.		HP HORSE POWER
	LIGHT FIXTURE, EMERGENCY WALL PACK		MCA MINIMUM CIRCUIT AMPACITY
			LV LOW VOLTAGE
			DEVICE TO BE REMOVED
			DEVICE TO REMAIN

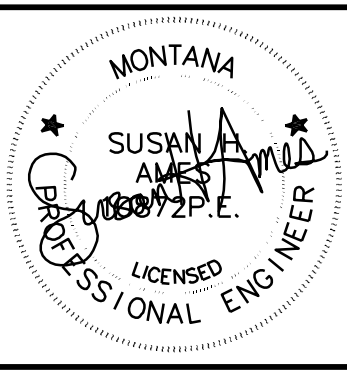


2 REVISED POWER RISER DIAGRAM
 E1.1 *CONTRACTOR SHALL REUSE AS MUCH EXISTING FEEDERS AS POSSIBLE TO SERVE THE NEW PANEL A AND EXISTING PANEL B. NO SCALE

Electrical Specifications		
<p>Scope: All electrical work under this contract as shown on the plans and indicated in the specifications. Work shall be performed by a licensed and bonded contractor utilizing tradesmen skilled in the art and in accordance with acceptable practices. All work shall comply with local, state, and the National Electrical Code, latest edition.</p> <p>Permits: The electrical contractor shall secure all permits in connection with his work.</p> <p>Work Included: All lighting and power systems including fixtures, devices, boxes, conduit, disconnects, motor starters, etc. Provide and install all incidental items required for a complete and functioning system. Service equipment, motors, etc. to be located and installed as shown on the plan. Deviations shall be approved prior to installation by the architect and/or engineer.</p> <p>Tests: Prior to tests or usage, all switches, panels, devices shall be in place. All branch circuits shall be free of faults or shorts. The complete installation and all components shall have a resistance between conductors and between conductors and ground as specified by the N.E.C.</p> <p>Ground: There shall be continuity of ground throughout the system. System ground to comply with N.E.C. requirements.</p> <p>Materials: All materials such as receptacles, switches, conduit, conductors, panelboards, devices, fixtures, etc. to be new and bear the U.L. label or to conform to applicable standards.</p> <p>Guarantee/Warranty: Contractor guarantees that all work and plant will be free from defects of materials and workmanship for a period of one (1) year from the date of final acceptance. Contractor further agrees that he will replace or repair all defective equipment and installation that becomes defective during the term of the warranty. This does not include excessive abuse or damage inflicted by the owner and/or others.</p>	<p>Manufacturers Directions, Procedures and Operating Instructions: Manufacturers materials, and equipment applied, installed, connected, erected, used, cleaned, and conditioned as per manufacturers directions or recommendations prior to installation.</p> <p>Installation: All equipment, circuitry, etc. shall be installed as follows or as specified otherwise. The electrical contractor shall verify all nameplate ratings of equipment to be connected and verify electrical compatibility and code compliance. Manufacturer's recommendations shall take precedence unless verified otherwise.</p> <p>Conductors and Cable: All conductors shall be copper with a weather resistant thermoplastic cover. No branch circuit conductors shall be smaller than #12 unless for low voltage wiring. Lighting Circuits: Lighting circuits shall not exceed 1920 watts and shall be for lighting only. No other equipment such as receptacles, small motors, computers, and other devices shall be connected to lighting circuits unless specifically shown on the plan or called out in the specifications.</p> <p>Receptacle Circuits: There shall be no more than nine (9) receptacles on a 20A circuit. Additional loads such as small motors or equipment may be connected to receptacle circuits if indicated on the plan. Field verify for any deviations.</p> <p>Motor Circuits: Motors and circuitry to be installed and connected as indicated on the plan. All motors to be provided with a disconnecting means per the N.E.C. If fractional horsepower motors do not have an integral disconnecting means such as a plug or snap switch, electrical contractor to provide and install an acceptable disconnecting means. Equipment connected with flexible conduit with green jacketed ground wire within conduit-to-conduit system or equipment ground. Connect for correct rotation.</p> <p>Conduits: PVC schedule 40 acceptable where routed underground. If PVC is used, provide ground wire. Compression couplings in wet locations and in concrete walls and floors. EMT required for interior runs.</p>	<p>Outlet Boxes: Fixture and Special Purpose 4" x 4" x 2 1/8" Duplex, Switch and Telephone 3" x 2" x 2 3/4" Special Purpose Outlet 4" x 4" x 2 1/8"</p> <p>Wire and Cable: Type THHN or THWN for application or as noted otherwise. Type AF fixture wire where required including within lighting fixtures. Color code in accord with the N.E.C.</p> <p>Current Characteristics: 120/240V, 1 phase, 3W</p> <p>Wiring Devices: Product: Leviton, P&S, Hubbell, and Slater acceptable. Switch and receptacle colors, selected by owner. Devices and finish plates to match in color - no exceptions.</p> <ol style="list-style-type: none"> Standard switches 20 amps, 277 volt with matching smooth plastic plate. Mount 44" to centerline. <ol style="list-style-type: none"> 1 pole Single pole toggle 20A, Model No. CSB1-20 Duplex outlet Nema standard WD 1 and 6, 20 amps, 125 volts grounded Model No. BR20 complete with smooth matching plate. Mount centerline at 18". GFI receptacle, 20 amp, 125 volt - Model number 6899 with matching plate zinc weather resistant cover where indicated W.P. <p>Equipment Connections: Electrical contractor to coordinate all work where he is responsible for connecting equipment supplied by others. Verify equipment plug configurations and direct connect or install receptacle to match plug. Verify box mounting heights prior to rough in.</p> <p>Disconnect and Schedule of Control Equipment: Product of General Electric, Square D, Cutler Hammer, and Westinghouse acceptable. Model, style, etc. as scheduled. Install fuses for disconnects if required and heaters for motor controllers as recommended by motor equipment supplier. Coordinate controls wiring as indicated on the schedule and make allowances there of.</p>

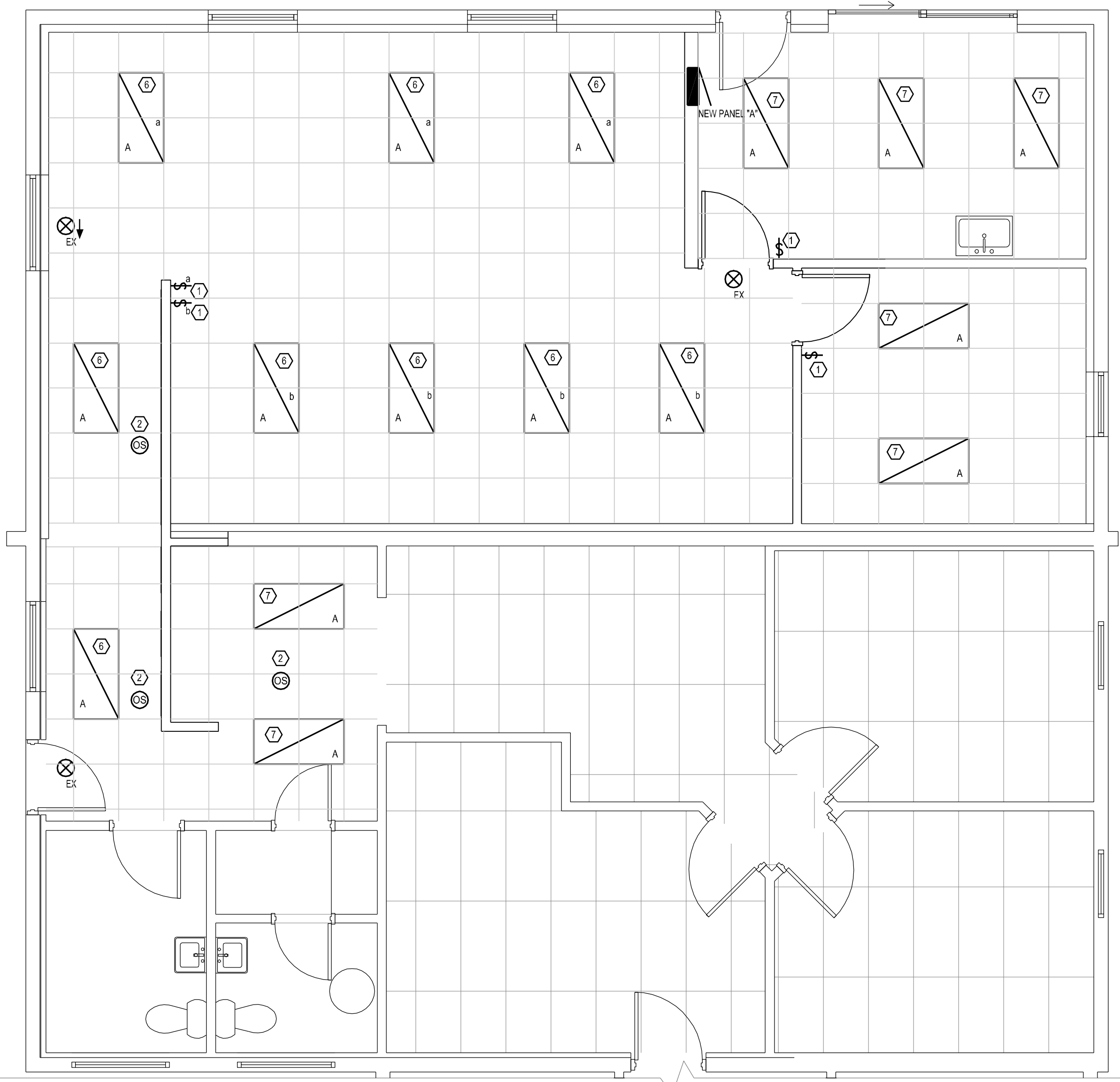
1 ELECTRICAL DEMOLITION PLAN
 E1.1 1/4"=1'-0"

COORDINATION NOTE
 IT IS ABSOLUTELY NECESSARY THAT ALL TRADES COORDINATE WITH EACH OTHER AND VERIFY THAT THERE ARE NO CONFLICTS IN LOCATION OF DUCTS, CONDUITS, SPRINKLER HEADS, DIFFUSERS, ELECTRICAL BOXES, EQUIPMENT, AND OTHER ITEMS THROUGHOUT THIS PROJECT BEFORE FINAL PLACEMENT OF MATERIALS.



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REVISIONS	
#	DATE



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

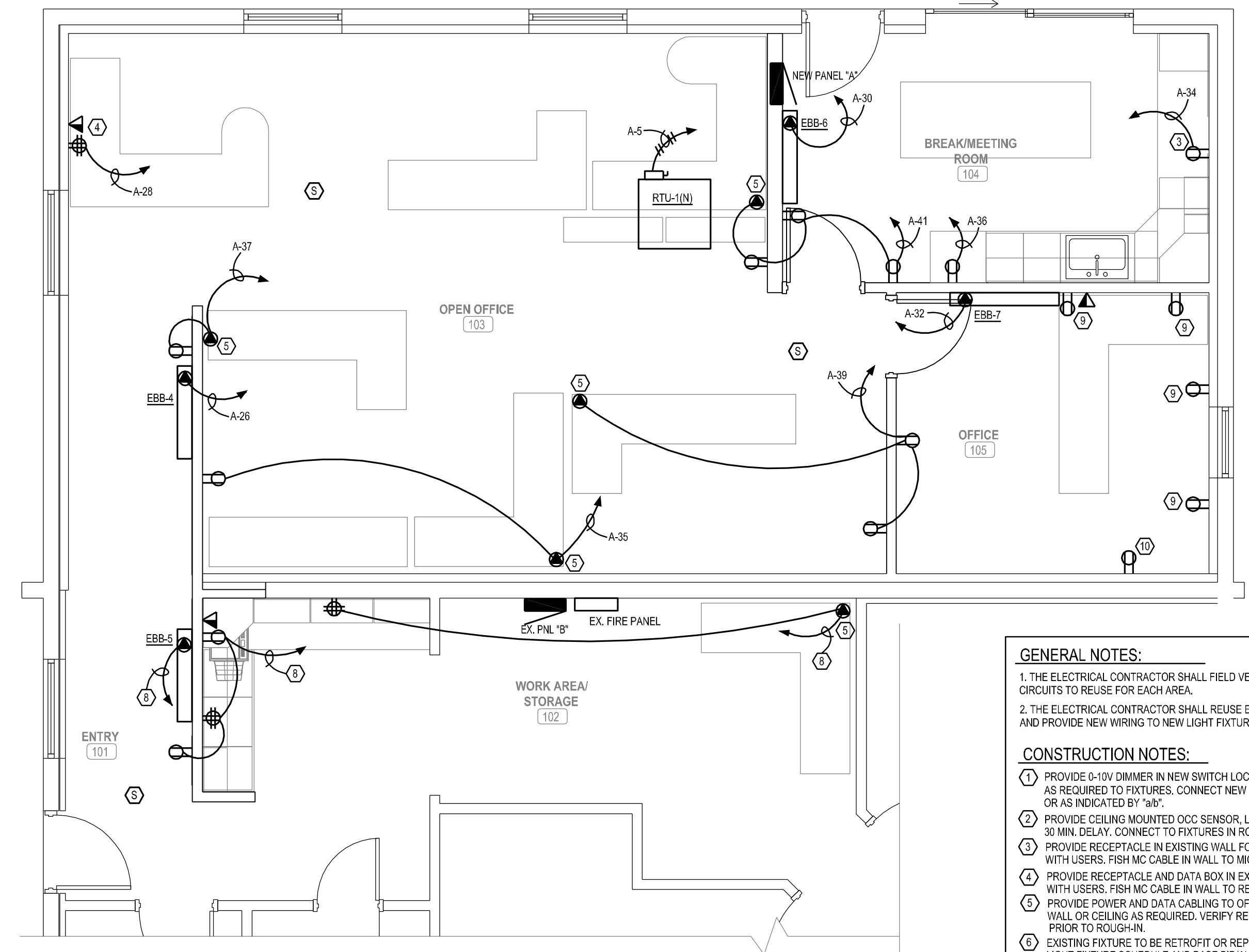
LIGHT FIXTURE SCHEDULE									
LTR.	SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NO.	LOCATION	MOUNTING	LAMPS		NOTES
							NO.	WATTAGE	
A		2x4 RECESSED VOLUMETRIC RETROFIT KIT LED DIMMABLE LAMPING	ELKO	VOL24R-PS34-840JID DIMMABLE	CEILING	RECESSED	1	34W LED	120V
A ALT #1		2x4 RECESSED FLAT PANEL LED DIMMABLE LAMPING	LITHONIA	CPANL-2X4-40LM-40K DIMMABLE	CEILING	RECESSED	1	32W LED	120V
EX		SINGLE FACE RED LED BRUSHED ALUM. STENCILLED EXIT NICKEL CAD. BATTERY	LITHONIA	LQC-1R-120-ELN	CLG.	SURFACE	-	RED LED'S	120V. ①

NOTES:
 ① CONNECT EMERGENCY AND EXIT FIXTURES TO NEAREST UNSWITCHED 120V. CIRCUIT.

BASE BID: PROVIDE RETROFIT KIT IN NINE EXISTING 2X4 TROFFERS. FIELD VERIFY KITS WILL FIT INTO EXISTING FIXTURES PRIOR TO ORDERING.
 ALTERNATE #1: PROVIDE NEW FIXTURES TO REPLACE NINE EXISTING LIGHTS.

MOTOR SCHEDULE											
*VERIFY EXACT LOCATIONS OF ALL EQUIPMENT PRIOR TO ROUGH-IN											
UNIT	MANUFACTURER			STARTER			O.L.	DEVICES		AUXILIARY CONTROL EQUIP. & DEVICES	NOTES
	HP	PH	VOLTS	MFR	CATALOG NO.	SIZE		POLES	HTRS		
EBB-4,5,7	1kW	1	120		N/A						①
EBB-6	750W	1	120		N/A						①
RTU-1(N)	18.8 MCA	1	240		N/A						① ②

① SEE TEMPERATURE CONTROL SPECIFICATIONS IN MECHANICAL SPECS FOR SEQUENCE OF OPERATION, INTERLOCKS, AND SPECIAL CONTROLS REQUIRED. ALSO FOR DEFINITION OF WHICH CONTRACTOR PROVIDES WHAT.
 ② PROVIDE NEMA 3R, 30A/2P FUSED DISCONNECT SWITCH ADJACENT TO UNIT. PROVIDE FUSES PER MANUFACTURER'S RECOMMENDATIONS. ALL WORK RELATED TO THE REPLACEMENT OF THE RTU SHALL BE PART OF ALTERNATE #2.



2 NEW POWER/LOW VOLTAGE PLAN
 E1.2 1/4"=1'-0"

- GENERAL NOTES:**
- THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXISTING LIGHTING CIRCUITS TO REUSE FOR EACH AREA.
 - THE ELECTRICAL CONTRACTOR SHALL REUSE EXISTING LIGHTING CIRCUITS AND PROVIDE NEW WIRING TO NEW LIGHT FIXTURES IN NEW CEILINGS.
- CONSTRUCTION NOTES:**
- PROVIDE 0-10V DIMMER IN NEW SWITCH LOCATION. PROVIDE NEW WIRING AS REQUIRED TO FIXTURES. CONNECT NEW SWITCHES TO FIXTURES IN ROOM OR AS INDICATED BY "M".
 - PROVIDE CEILING MOUNTED OCC SENSOR LUTRON OR EQUAL, WITH 30 MIN. DELAY. CONNECT TO FIXTURES IN ROOM AS REQUIRED.
 - PROVIDE RECEPTACLE IN EXISTING WALL FOR MICROWAVE, VERIFY HEIGHT WITH USERS. FISH MC CABLE IN WALL TO MICROWAVE HEIGHT, +60" AFF.
 - PROVIDE RECEPTACLE AND DATA BOX IN EXISTING WALL, VERIFY HEIGHT WITH USERS. FISH MC CABLE IN WALL TO RECEPTACLE BOX HEIGHT.
 - PROVIDE POWER AND DATA CABLING TO OFFICE FURNITURE FEEDS THROUGH WALL OR CEILING AS REQUIRED. VERIFY REQUIREMENTS WITH SUPPLIER PRIOR TO ROUGH-IN.
 - EXISTING FIXTURE TO BE RETROFIT OR REPLACED AND RELOCATED, PER LIGHT FIXTURE SCHEDULE AND BASE BID/ALTERNATE #1 NOTES.
 - NEW FIXTURE IN NEW CEILING. CONNECT TO CIRCUIT PREVIOUSLY SERVING LIGHTING IN THIS AREA.
 - EXTEND 3/4" IN 1/2" CONDUIT TO NEW 20A/1P BREAKER IN EX. PANEL B. PANEL B IS AN EXISTING GENERAL ELECTRIC A-TYPE PANEL.
 - RELOCATE EXISTING RECEPTACLE TO 18" AFF. EXTEND WIRING TO NEW LOCATION AS REQUIRED.
 - PROVIDE DUPLEX RECEPTACLE FACEPLATE AND CONNECT AS REQUIRED.

PANEL	A	AMPS	200A	BUS	200A	MOUNT	FLUSH	EXTEND FEEDERS TO										
LOC.	ROOM 104	L-L V	240	NEUT	200A	FEED	TOP	NEW PANEL LOCATION										
MFR.	GE	L-N V	120	M.C.B.	NO	WIDTH	20"	FROM EXISTING LOADS										
TYPE	A	PHASE	1	TYPE		DEPTH	5 3/4"											
AIC	10K	WIRES	3	M.L.O.	YES	NEMA	1											
REMARKS : BOLT-ON BREAKERS ONLY, HACR BREAKERS WHERE REQUIRED BY HVAC UNIT MANUFACTURER																		
*ALL CIRCUIT BREAKERS SHALL BE RATED 10,000 AIC AND LISTED FOR SERIES COMBINATION WITH THE CURRENT LIMITING MAIN FUSES OR CIRCUIT BREAKERS.																		
CKT NO.	BREAKER	AMP/POLE	T	WIRE #2	LOAD DESCRIPTION	USE				LOAD (VA)				BREAKER	CKT NO.			
						REC	LTS	HTR	MTR	MISC	L1	L2	REC			LTS	HTR	MTR
1	100	2			EX PANEL B						6000							
3											500					2		
											6000					4		
5	30	2		#10	RTU-1(N)						1800					6		
7											500					8		
											1800					10		
9	20	1		#12	EXISTING LOAD						500					12		
											500					14		
11	20	1		#12	EXISTING LOAD						500					16		
13	20	1		#12	EXISTING LOAD						500					18		
15	20	1		#12	EXISTING LOAD						500					20		
17	20	1		#12	EXISTING LOAD						500					22		
19	20	1		#12	EXISTING LOAD						500					24		
21	20	1		#12	EXISTING LOAD						500					26		
23	20	1		#12	EXISTING LOAD						500					28		
25	20	1		#12	EXISTING LOAD						1000					30		
27	20	1		#12	EXISTING LOAD						500					32		
29	20	1		#12	EXISTING LOAD						1000					34		
31	20	1		#12	EXISTING LOAD						500					36		
33	20	1		#12	EXISTING LOAD						1000					38		
35	20	1		#12	RECEPTACLES	1					1000					40		
37	20	1		#12	RECEPTACLES	1					1000					42		
39	20	1		#12	RECEPTACLES	1					1000					44		
41	20	1		#12	RECEPTACLES	1					1000					46		
											19050	18800						
TOTAL CONNECTED LOAD											37850	VA	CONNECTED LOAD					
													REC 1ST 10KVA	7.0	KVA	100%	7.0	KVA
													REC REMAINING		KVA	50%	0.0	KVA
													LIGHTING		KVA	125%	0.0	KVA
													RES HEAT	11.4	KVA	125%	14.2	KVA
													MOTORS		KVA	100%	0.0	KVA
													MISCELLANEOUS	18.5	KVA	100%	18.5	KVA
													TOTAL DEMAND LOAD				39.7	KVA
													DEMAND AMPS				165.4	AMPS

BREAKER TYPES
 N = NEW
 EX = EXISTING
 G = GFCI

MONTANA FWP - CWG PROJECT #23-153-01 FWP PROJECT #7199172
 MONTANA OUTDOORS OFFICE REMODEL
 930 CUSTER AVENUE, HELENA, MT 59602
 LIGHTING AND POWER/LOW VOLTAGE PLANS, AND SCHEDULES

23-153-01
 DRAWN BY SHA
 APPROVED SHA
 DATE 10.18.2021
E1.2