

THE LUX NIGHTCLUB
801 NORTH FEE STREET
HELENA, MONTANA

ARCHITECT:
ECLIPSE ARCHITECTURE, P.L.L.C.
TRACY EGELINE, AIA
3530 CENTENNIAL DRIVE
HELENA, MONTANA
(406) 204-1288

MECHANICAL/ELECTRICAL ENGINEER:
FOUR FRONT DESIGN INC
RAY DAVES, PE
PO BOX 9
HELENA, MONTANA
(406) 204-0736

GENERAL NOTES:

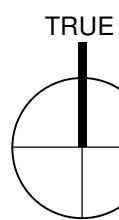
FRAMING:

1. MEM FIRMARCH #2 OR BETTER FOR ALL FRAMING MEMBERS UNLESS OTHERWISE SPECIFIED.
2. FIRE BLOCK AT 1'0" MAXIMUM HORIZONTAL.
3. TYPICAL HEADER AT EXTERIOR WALLS AND BEARING WALLS SHALL BE (3)-2X10'S GLUED AND NAILED AND 1" RIGID INSULATION (UNLESS OTHERWISE NOTED ON PLANS).
4. NAILING FOR FRAMING MEMBERS SHALL COMPLY WITH TABLE 2304.10.1 OF 2018 IBC.
5. NAILING OF GYPSUM WALLBOARD SHALL COMPLY WITH TABLE 2508.6 OF 2018 IBC.
6. GALVANIZED ANCHORS FOR ALL EXTERIOR WORK, (I.E. DECK, FASCIA, TRIM, SOFFIT, SIDING, ETC).
7. PIPING OR DUCTWORK PLACED IN AN EXTERIOR OR INTERIOR LOAD-BEARING WALL NECESSITATING A CUTTING OF TOP PLATE BY MORE THAN 50% OF ITS WIDTH REQUIRES A GALVANIZED METAL TIE SHALL BE ATTACHED TO EACH PLATE AT EACH SIDE OF THE OPENING AND FASTENED AS REQUIRED.
8. ALL WOOD IN CONTACT TO CONCRETE SHALL BE PRESSURE TREATED.

MISCELLANEOUS:

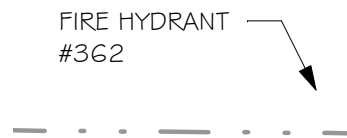
1. ALL WIRING, HEATING AND PLUMBING SHALL COMPLY WITH 2018 INTERNATIONAL MECHANICAL CODE, 2018 INTERNATIONAL FUEL GAS CODE, 2018 UNIFORM PLUMBING CODE, 2012 INTERNATIONAL ENERGY CONSERVATION CODE AND 2017 NATIONAL ELECTRICAL CODE AND SHALL BE INSTALLED BY LICENSED CONTRACTORS.
2. APPROVED NUMBERS OR ADDRESSES SHALL BE PROVIDED FOR ALL NEW BUILDINGS IN SUCH A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.
3. CONTRACTOR SHALL FILL OUT AND AFFIX "ENERGY EFFICIENCY COMPONENTS" LABELING STICKER AS REQUIRED BY STATE OF MONTANA.

PROJECT LOCATION

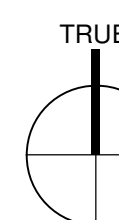


VICINITY MAP

NOT TO SCALE



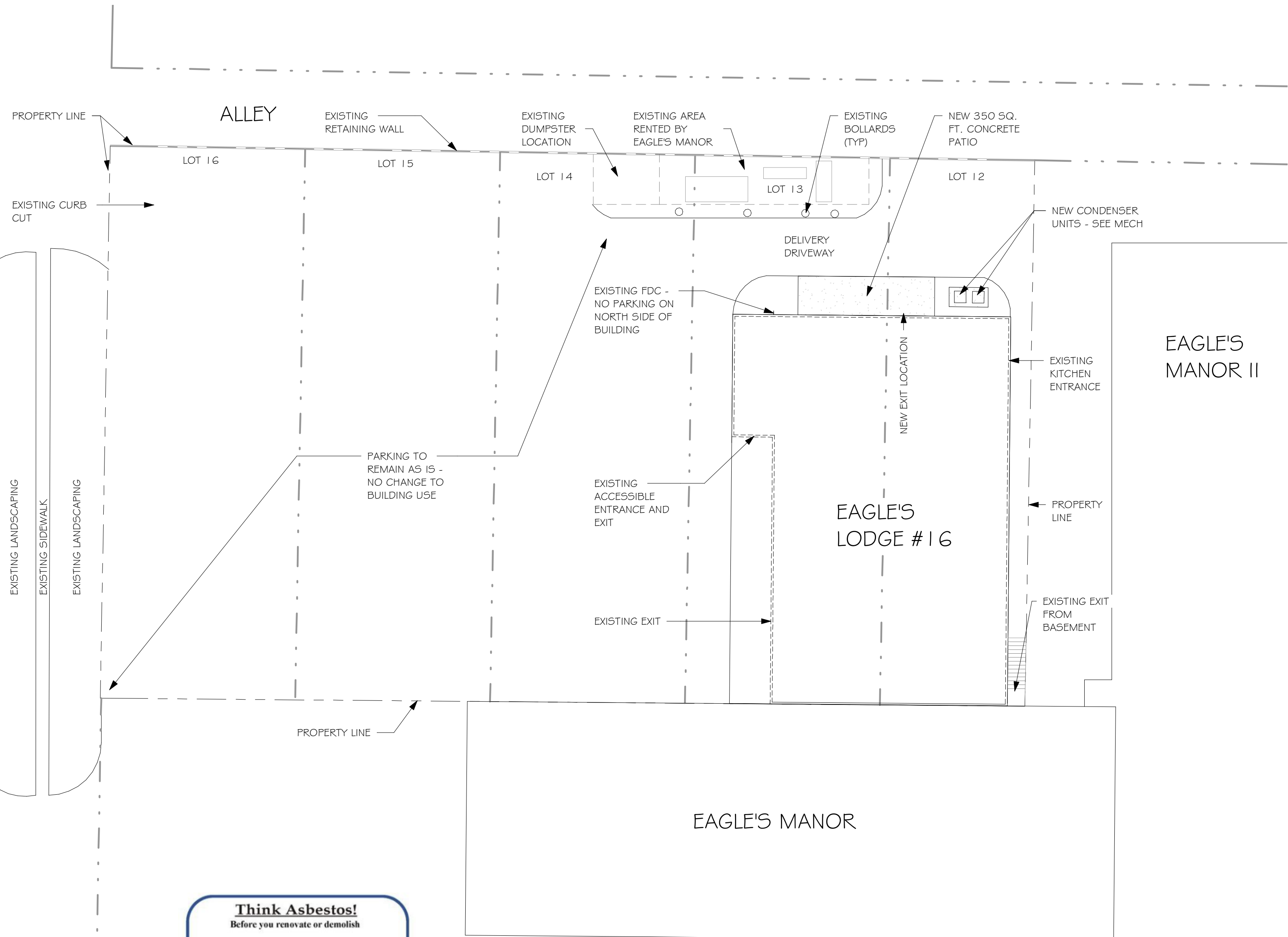
BUTTE AVE



1 SITE PLAN

1" = 20'-0"

FEE STREET



CITY OF HELENA
Building Division
447-8437 or 447-8438
REFER TO RECORD CARD
FOR REQUIRED INSPECTIONS

IMPORTANT NOTICE

No Building Shall Be Occupied
Prior To Final Inspection

No building or structure shall be used or occupied until the Building Official has issued a certificate of occupancy. Issuance of a Certificate of Occupancy shall not be construed as an approval of a violation of the provisions of this code or of other ordinances of The City of Helena Montana.

Final Inspections shall be called into the
Building Division 10 days prior to inspection.

NOTE: Plans and specs shall not be changed, modified or altered without authorization from The City of Building Division.

This permit shall be null and void if work or construction authorized is not commenced within 180 days, or if construction or work is suspended or abandoned for a period of 180 days at any time after work has commenced.

The holder of this permit will be required to comply with all applicable provisions of the building code and city ordinances in effect even if the necessity for compliance is discovered after issuance of the permit.

ABBREVIATIONS

#	AND	FC	FIRE CORE	O/C	ON CENTER
@	AT	FD	FLOOR DRAIN	OD	OUTSIDE DIAMETER
Ø	DIAMETER	FEC	FIRE EXTINGUISHER CABINET	OSB	ORIENTED STRAND BOARD
#	NUMBER	FIN	FINISH		
A.B.	ANCHOR BOLT	FFL	FINISHED FLOOR LEVEL	P-LAM	PLASTIC LAMINATE
ACoust	ACOUSTICAL	F.G.	FIBERGLASS	PL	PLATE
ADJ	ADJUSTABLE	FNDN	FOUNDATION	PLY	PLYWOOD
APPROX	APPROXIMATE	FOS	FACE OF STUD/STRUCTURE	PR	PAIR
ARCH	ARCHITECT/ARCHITECTURAL	FT	FLOOR/FEET	PREFIN	PREFINISHED
				PSP	POUNDS/SQUARE FOOT
BD	BOARD	GA	GAUGE	PSI	POUNDS/SQUARE INCH
BLDG	BUILDING	GEN	GENERAL	PT	POINT
BLK	BLOCK	GYP	GYPSUM		
BM	BEAM	QLB	GLUE LAMINATED BEAM	R	RISER/RADIUS
		GLU-LAM	GLUE LAMINATED	REF	REFERENCE
CAB	CABINET			REFRIG	REFRIGERATOR
CLG	CEILING	HORIZ	HORIZONTAL	REINF	REINFORCEMENT
CMU	CONCRETE MASONRY UNITS	HP	HORSEPOWER	REQD	REQUIRED
COMB	COMBINATION	HR	HOUR	R.O.	ROUGH OPENING
CONST	CONSTRUCTION	HVAC	HEATING, VENTILATION & AIR CONDITIONING	S	SOUTH
CONT	CONTINUOUS	HT	HEIGHT	SIM	SIMILAR
CW	COLD WATER	HW	HOT WATER	SHT	SHEET
				SPEC	SPECIFICATION
DBL	DOUBLE	ID	INSIDE DIAMETER	SQ	SQUARE
DF	DRINKING FOUNTAIN	INCAN	INCANDESCENT	STD	STANDARD
DIA	DIAMETER	INSUL	INSULATION	SUSP	SUSPENDED
DIAG	DIAGONAL				
DIM	DIMENSION	LIN FT	LINEAR FEET	T	TREAD
DISP	DISPENSER			TAG	TONGUE AND GROOVE
DN	DOWN	MAX	MAXIMUM	T.A.	TOILET ACCESSORY
		MECH	MECHANICAL	T.O.W.	TOP OF WALL ELEVATION
E	EAST	MED	MEDIUM	T-STAT	THERMOSTAT
EA	EACH	MIL	MILLIMETER	TYP	TYPICAL
ELEC	ELECTRICAL	MIN	MINIMUM		
EQ	EQUAL	MISC	MISCELLANEOUS	W	WEST
EXTG	EXISTING	MTL	METAL	WJ	WITH
EXT	EXTERIOR			WO	WITHOUT
		N	NORTH	WC	WATER CLOSET
		NIC	NOT IN CONTRACT	WD	WOOD
		NO	NUMBER		

MATERIAL INDEX

	EARTH		FRAMING WOOD		FOAM INSULATION
	CONCRETE		BATT INSULATION		
	BRICK OR CMU		RIGID INSULATION		

SYMBOL INDEX

	DEMOLITION NOTES		CENTER LINE
	NEW NOTES		OVERHEAD EDGE
	DOORS		HIDDEN EDGE
	WINDOWS		
	SHEAR WALL SYMBOL		ELEVATIONS
	WALL TAGS		
	TOILET ACCESSORY SYMBOL		# = DETAIL NUMBER
	# = ROOM NUMBER		SHT = SHEET NUMBER
			SECTIONS

SHEET NUMBER	SHEET NAME
COVER	COVER
ADA	ADA SHEET
A-1	CODE PLAN
A-2	RESTROOM PLANS
MO.0	MECHANICAL REQUIREMENTS & SPECIFICATIONS
MO.1	MECHANICAL GENERAL DETAILS
MO.2	MECHANICAL DETAILS AND SCHEDULES
M1.0	BASEMENT PLUMBING DEMOLITION PLAN
M1.1	MAIN FLOOR PLUMBING DEMOLITION PLAN
M1.2	BASEMENT PLUMBING REMODEL PLANS
M1.3	MAIN FLOOR PLUMBING REMODEL PLAN
M2.0	MAIN FLOOR HVAC DEMOLITION PLAN
M2.1	BASEMENT HVAC REMODEL PLAN
M2.2	MAIN FLOOR HVAC REMODEL PLAN
E0.0	ELECTRICAL LEGEND AND ABBREVIATIONS
E0.1	EXISTING ELECTRICAL PANEL SCHEDULES
E0.2	REMODELED ELECTRICAL PANEL SCHEDULES
E0.3	ONE-LINE DETAIL
E1.0	POWER PLANS
E2.0	LIGHTING PLANS
E3.0	FIRE ALARM PLANS

PROJECT INFORMATION

GEO CODE: 05-1888-29-4-30-30-0000

LEGAL: NORTHERN PACIFIC SECOND ADDN, S29, T10 N, R03 W, BLOCK 94, Lot 12, W37' * ALL LTS 13-16 COS #619969/T

ZONE: B-2
USE: TAVERN / CASINO (6 OR MORE VIDEO GAMING OR GAMBLING DEVICES)

LOT AREA: NO MINIMUM
LOT WIDTH: NO MINIMUM
LOT COVERAGE: NO MINIMUM

BUILDING HEIGHT: 75' MAX, NO CHANGE

SETBACKS:
FRONT LOT SETBACK: (W) NO MINIMUM, NO CHANGE
REAR LOT SETBACK: (E) NO MINIMUM, NO CHANGE
SIDE YARD SETBACKS: (N,S) NO MINIMUM, NO CHANGE

PARKING REQUIREMENTS: NO CHANGE
PARKING LOT LANDSCAPING: NO CHANGE
BICYCLE SPACE REQUIREMENTS: NO CHANGE
STORMWATER: NO CHANGE

APPROVED

City of Helena Building Division

Approval of this document does not authorize the violation of any state, county, or city law or regulation.

Permit Number: BCOM22-00033
By: E. Johnson
Date: 05/06/2022
Remarks: Subject To Inspection.

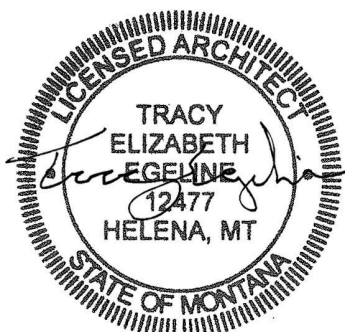
IT IS UNLAWFUL TO OCCUPY
THIS BUILDING PRIOR TO THE
FINAL INSPECTION

PERMIT COPY
THIS SET OF APPROVED
PLANS TO BE ON JOB SITE
AT ALL TIMES

CODE REVIEW AND ACCESSIBILITY FOR:

LUX NIGHTCLUB
801 NORTH FEE STREET,
HELENA, MONTANA

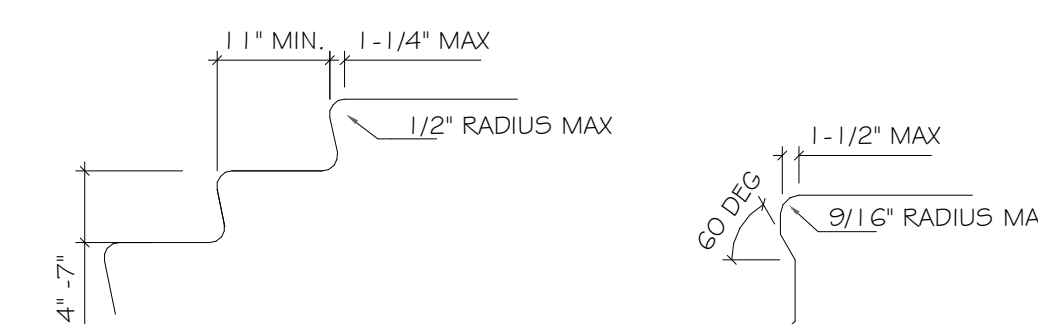
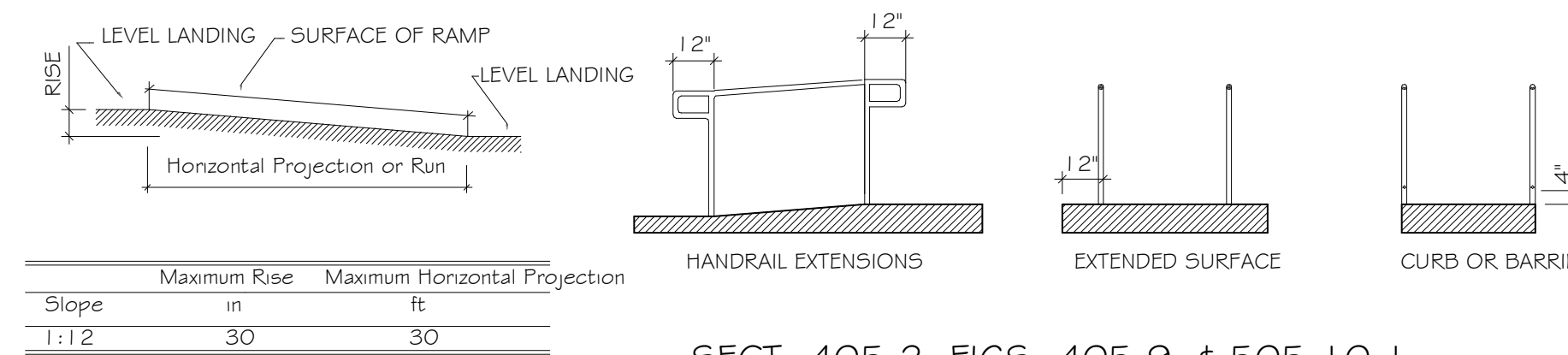
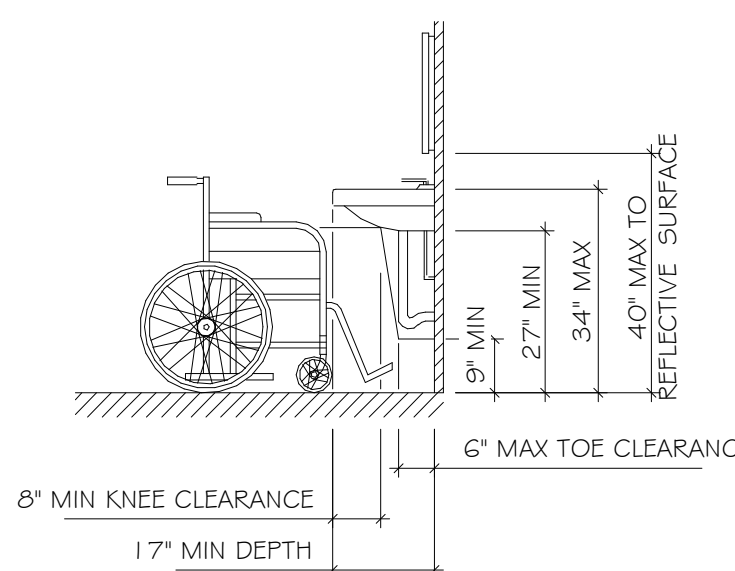
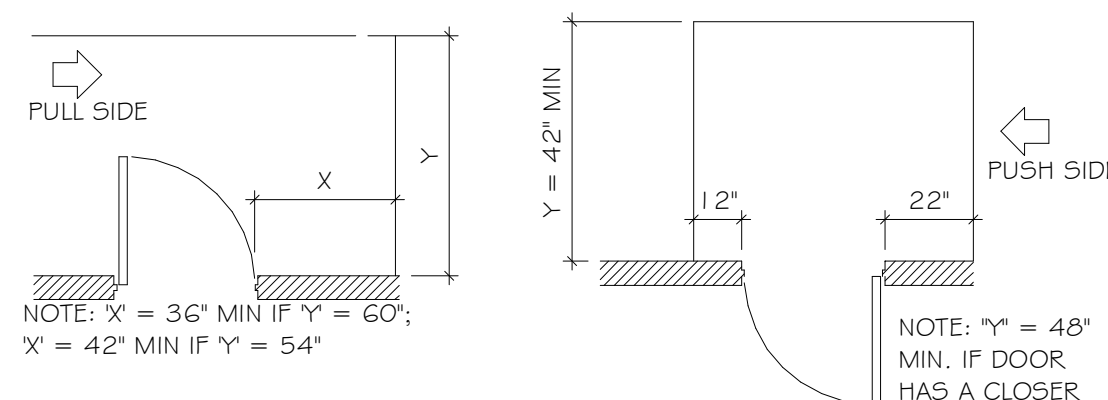
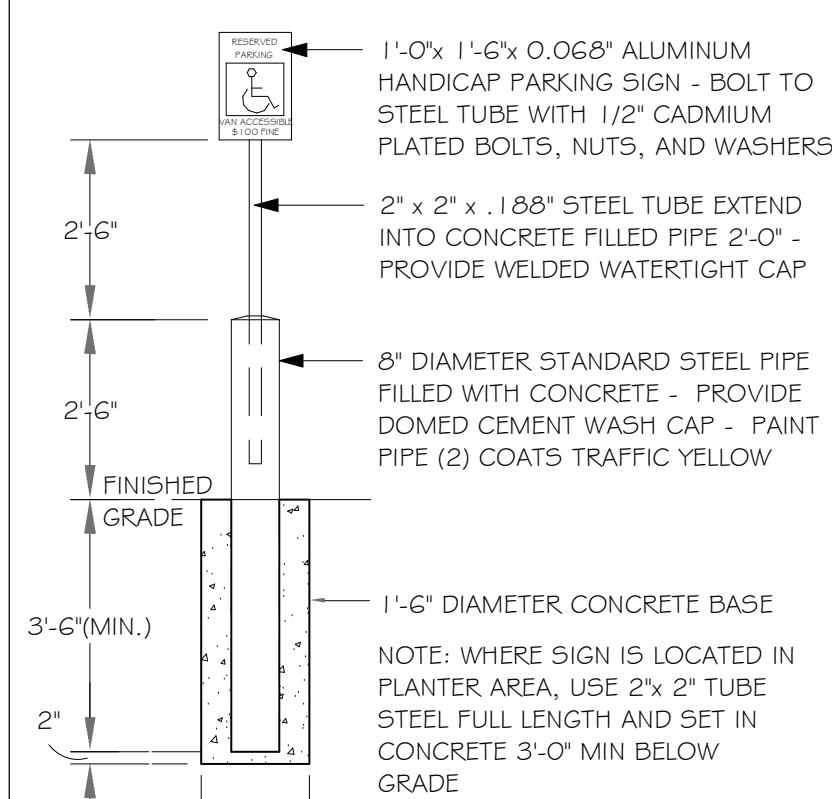
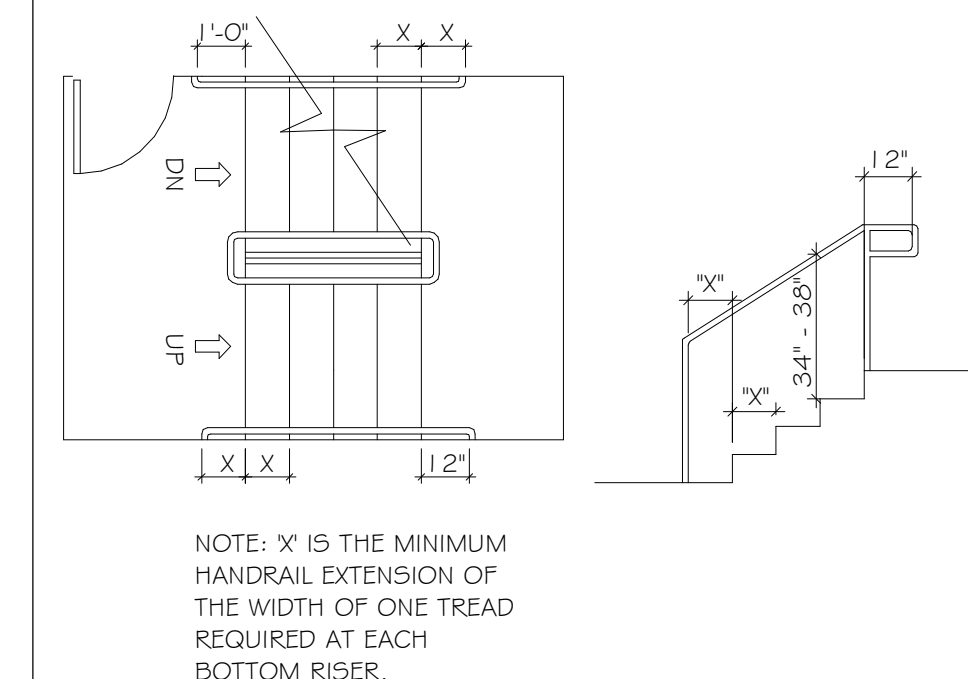
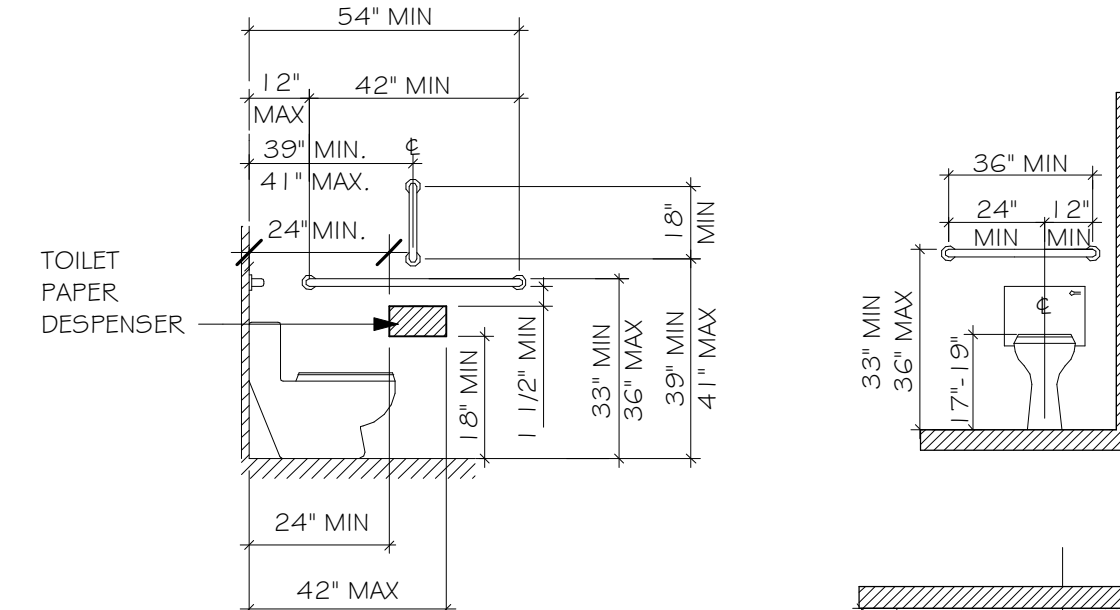
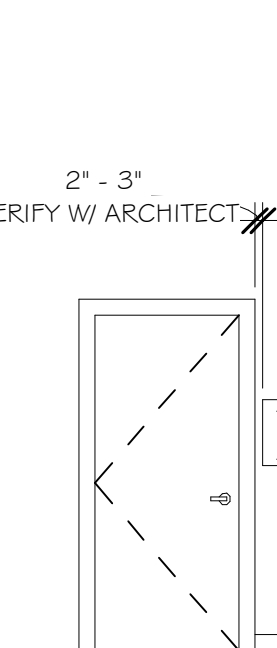
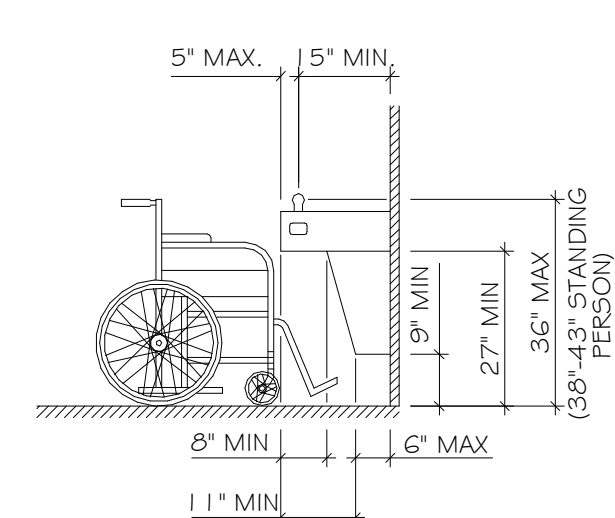
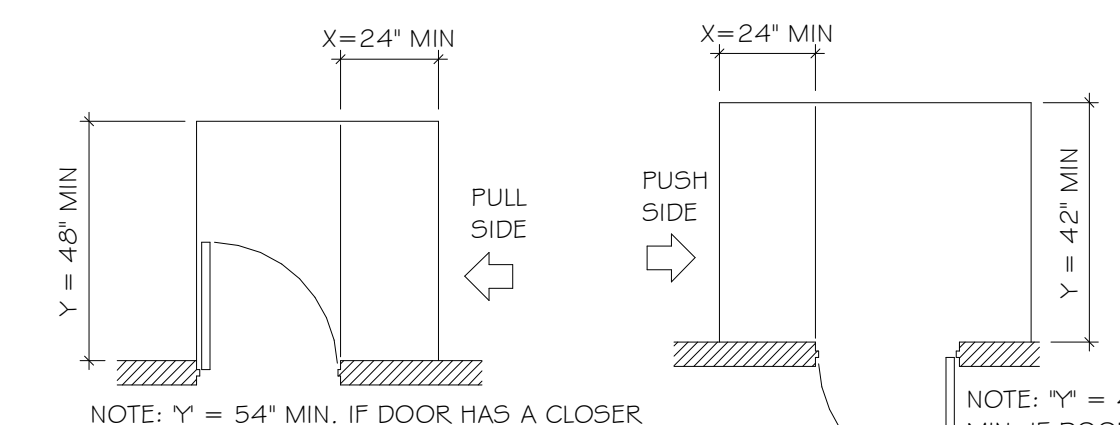
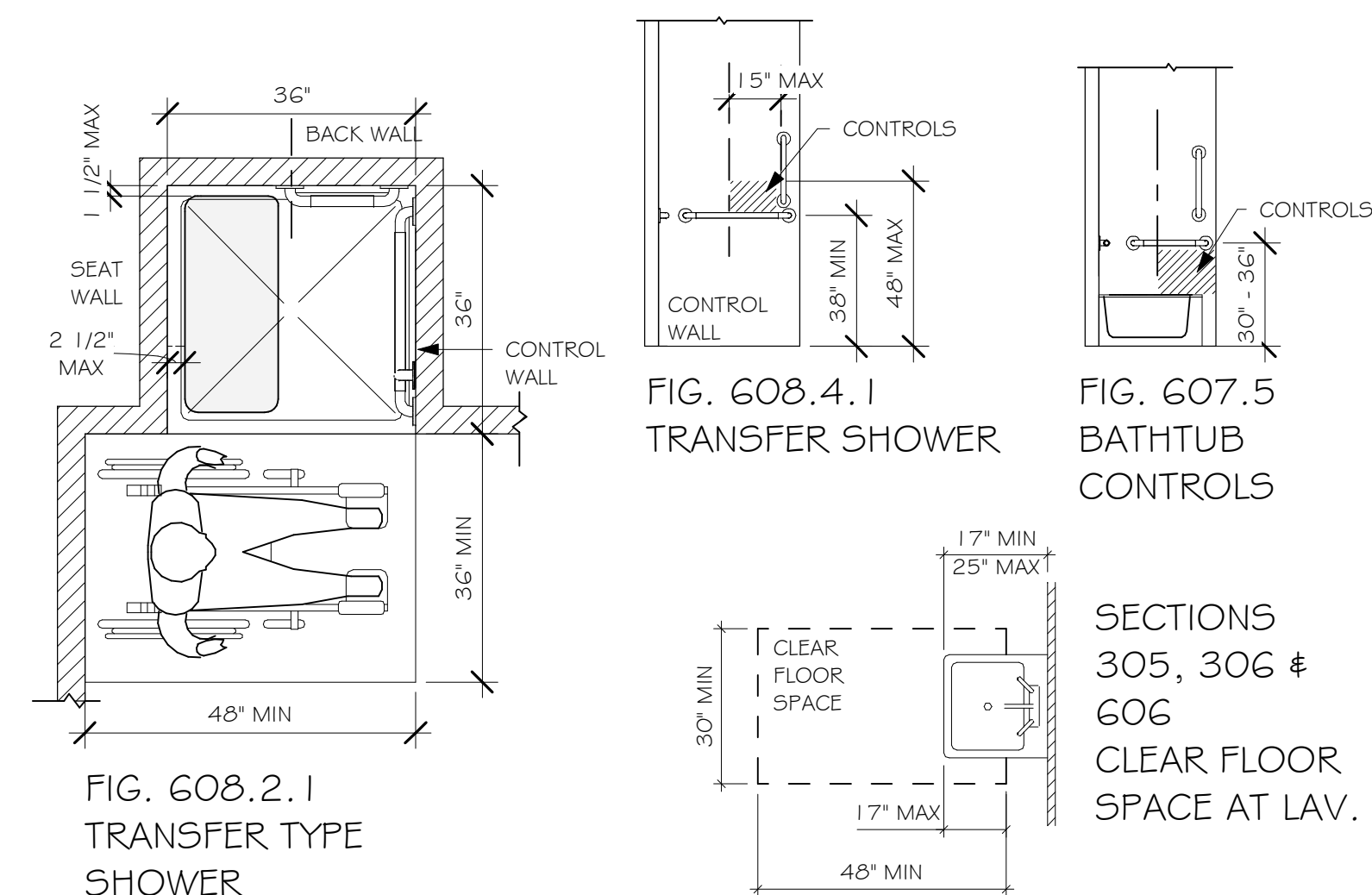
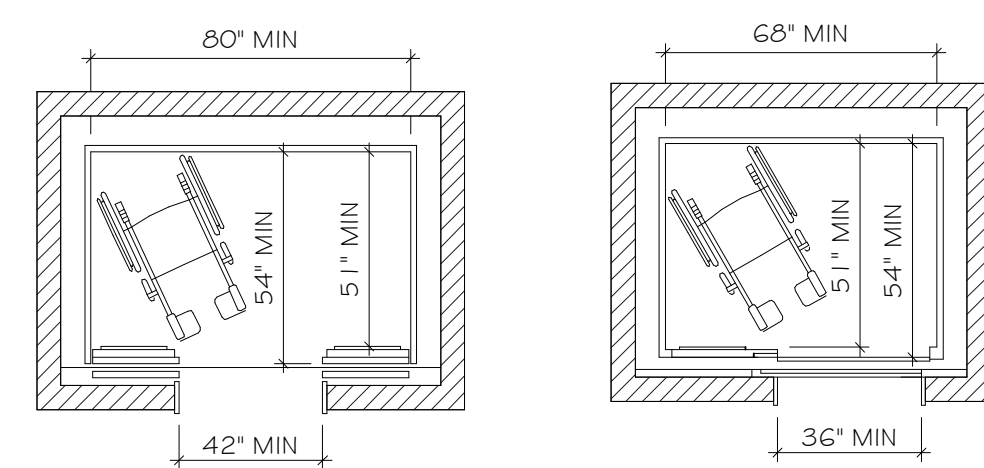
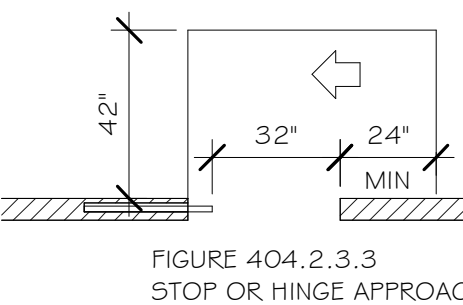
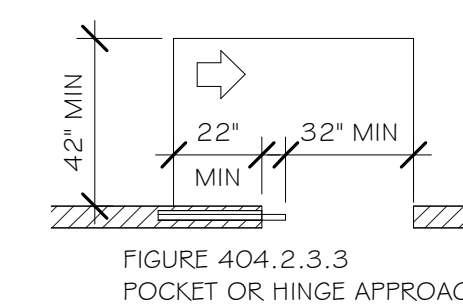
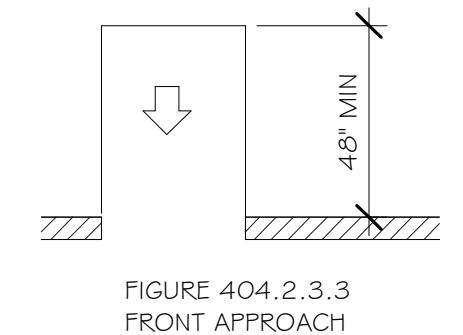
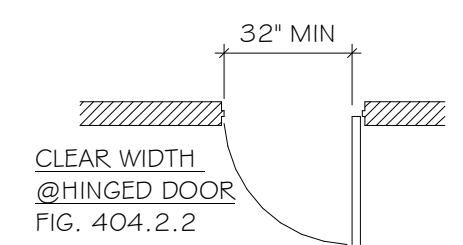
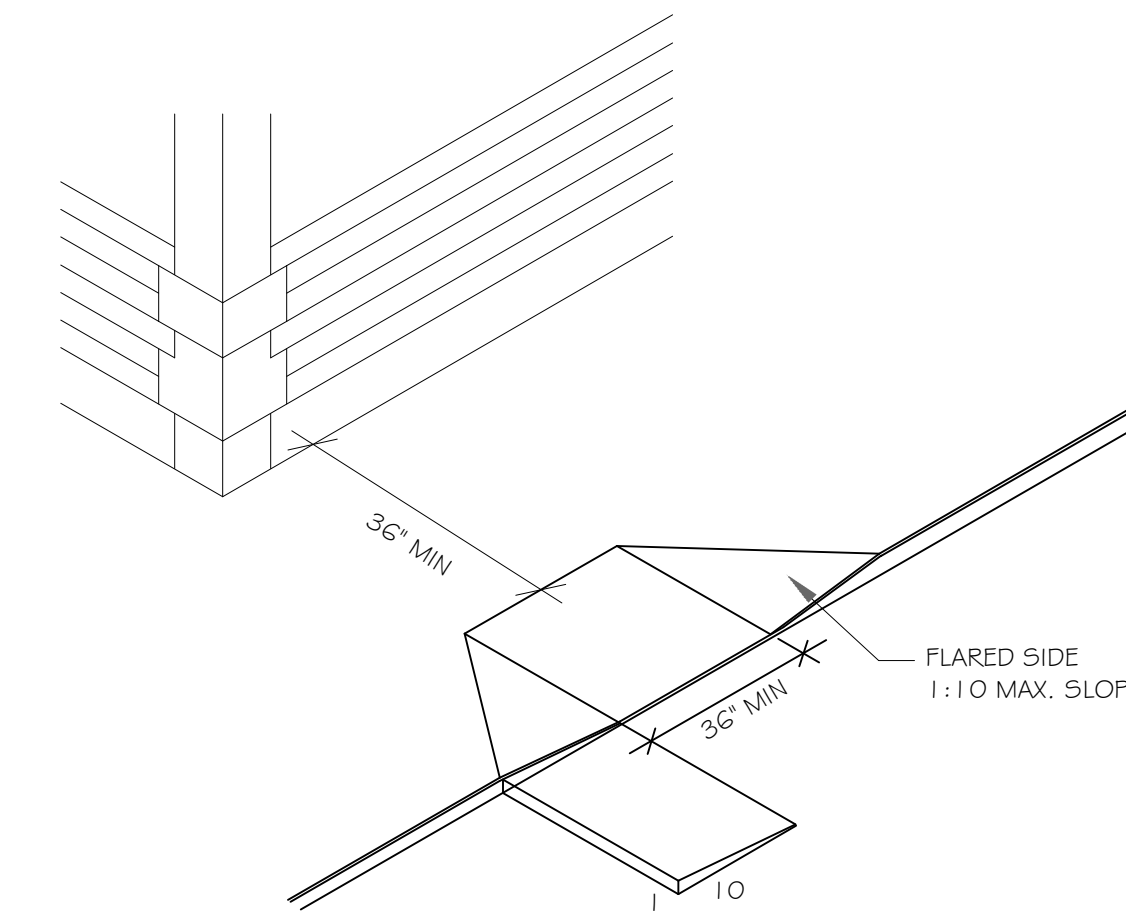
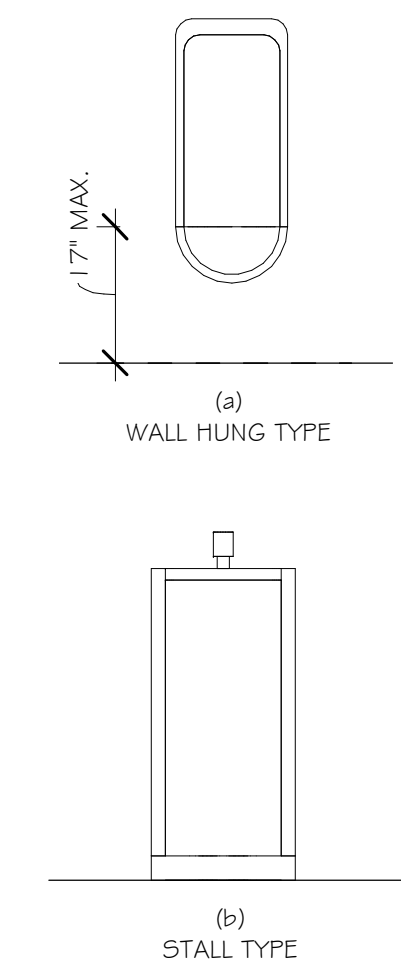
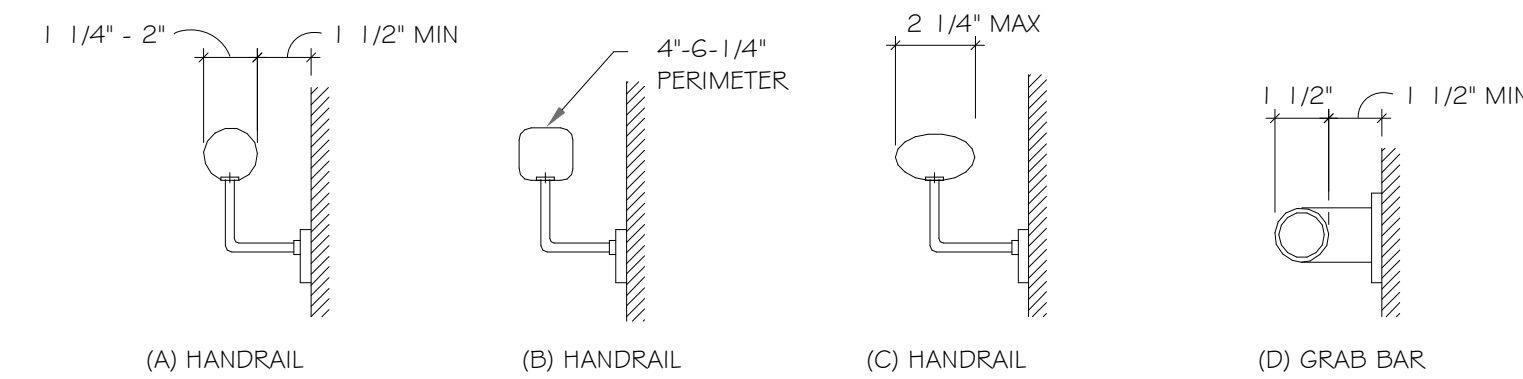
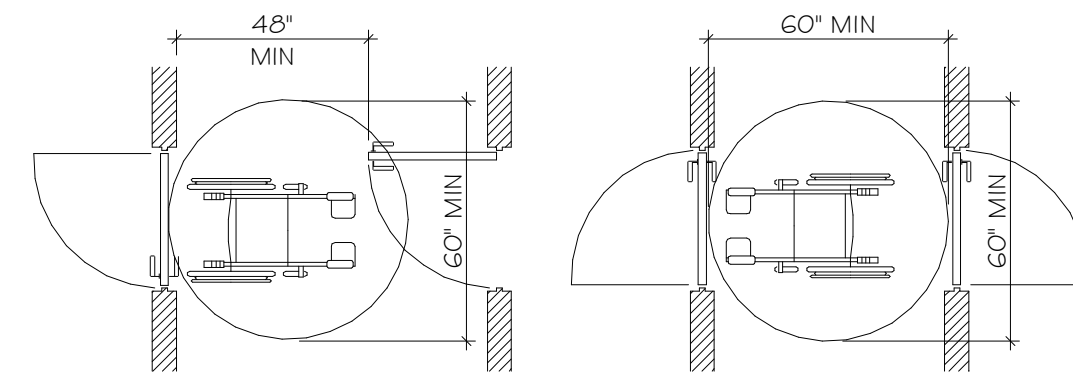
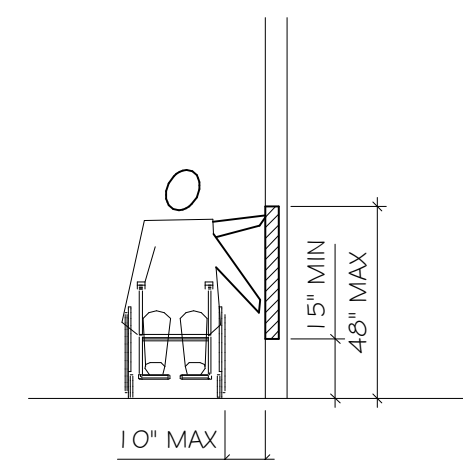
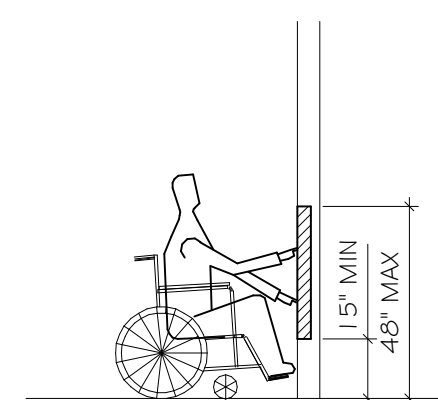
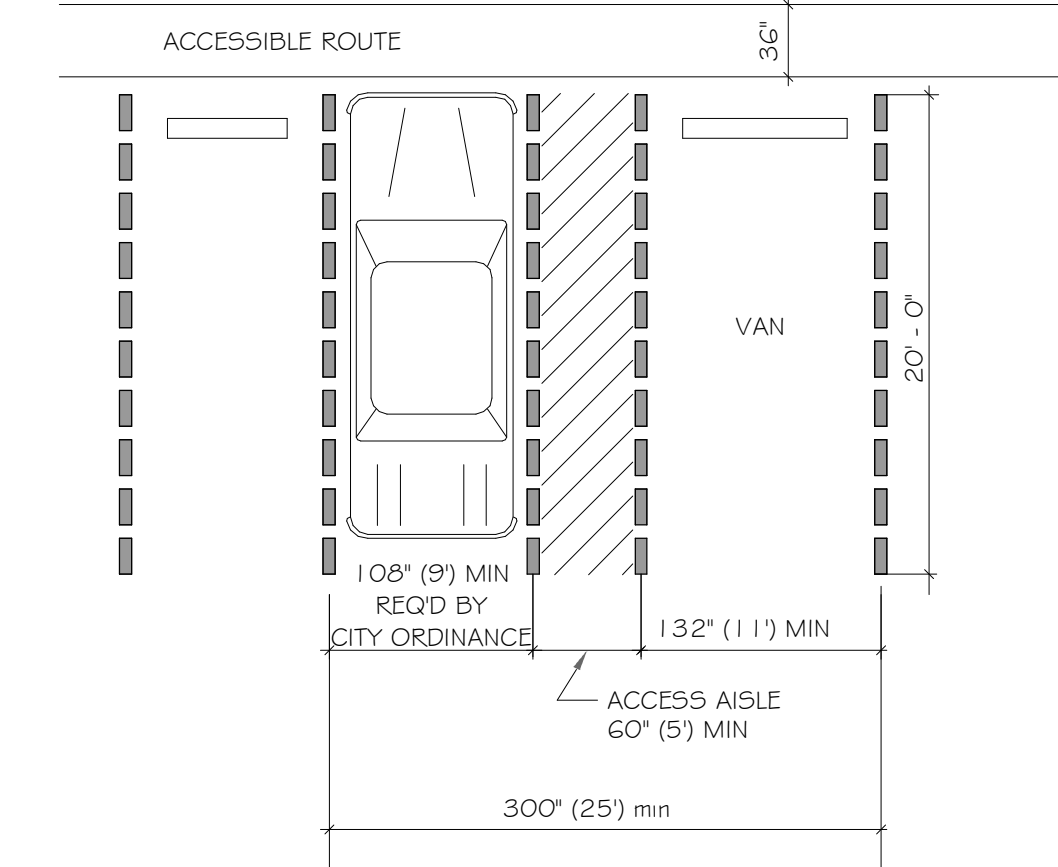
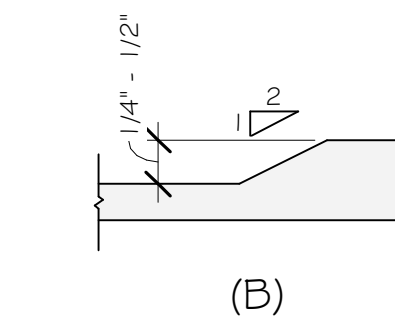
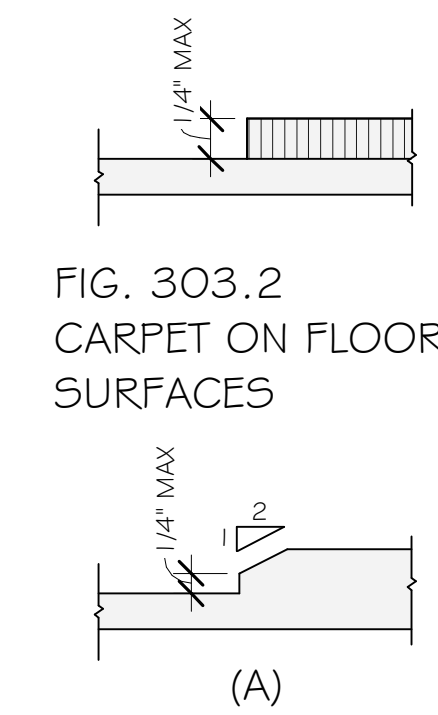
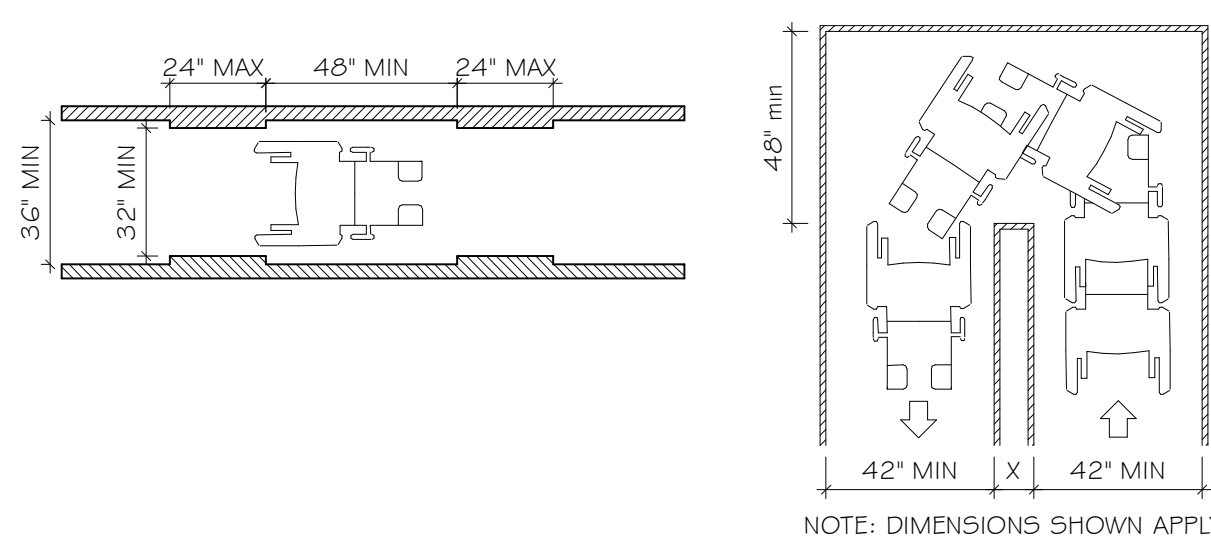
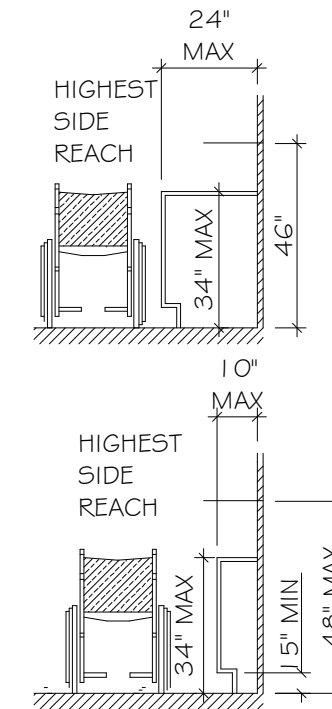
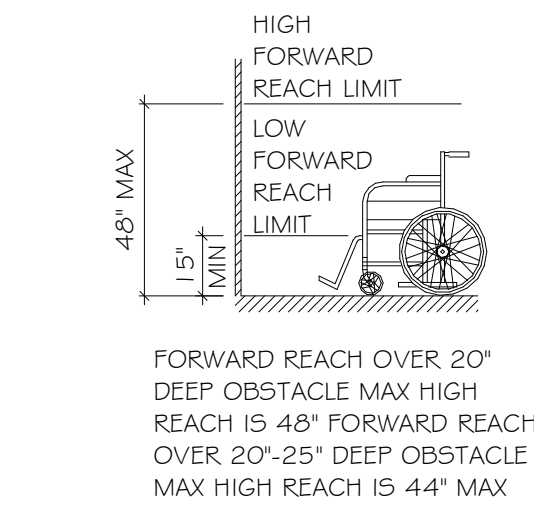
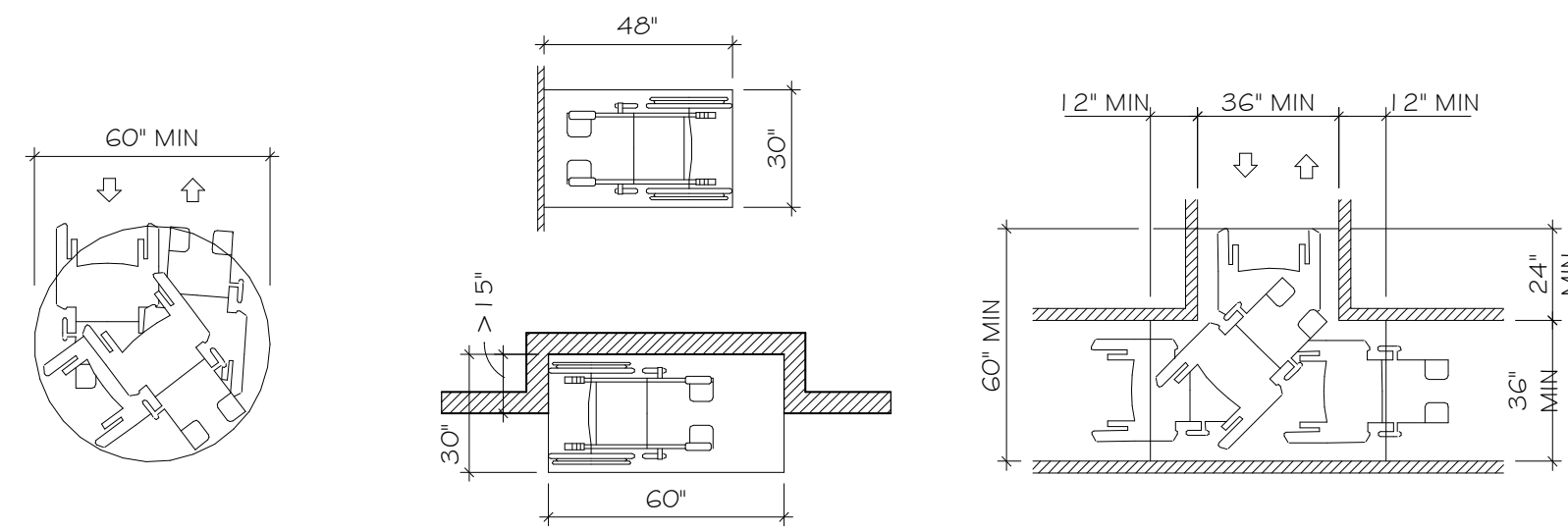
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DATE:	04.13.2022
DRAWN BY:	TEE
CHECKED BY:	TEE
REVISIONS:	
COVER	
OF	Approver



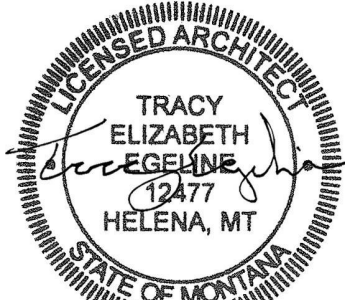
"LIMITED SERVICES"

eclipse
ARCHITECTURE

3530 CENTENNIAL DRIVE
HELENA, MONTANA 59601
(406) 204-1288



NOTE:
INFORMATION ON THIS SHEET
IS MEANT TO REPRESENT
COMMONLY REQUIRED
INFORMATION.
IT DOES NOT CONTAIN ALL
REQUIREMENTS FOR ALL ADA
COMPLIANCE REQUIREMENTS
IN ICC/ANSI A-117.1-2009.



"LIMITED SERVICES"


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CODE REVIEW AND ACCESSIBILITY FOR:

LUX NIGHTCLUB
801 NORTH FEE STREET,
HELENA, MONTANA

ADA SHEET

PERMIT COPY
THIS SET OF APPROVED
PLANS TO BE ON JOB SITE
AT ALL TIMES

PROJECT NUMBER: 2000-01

DATE:

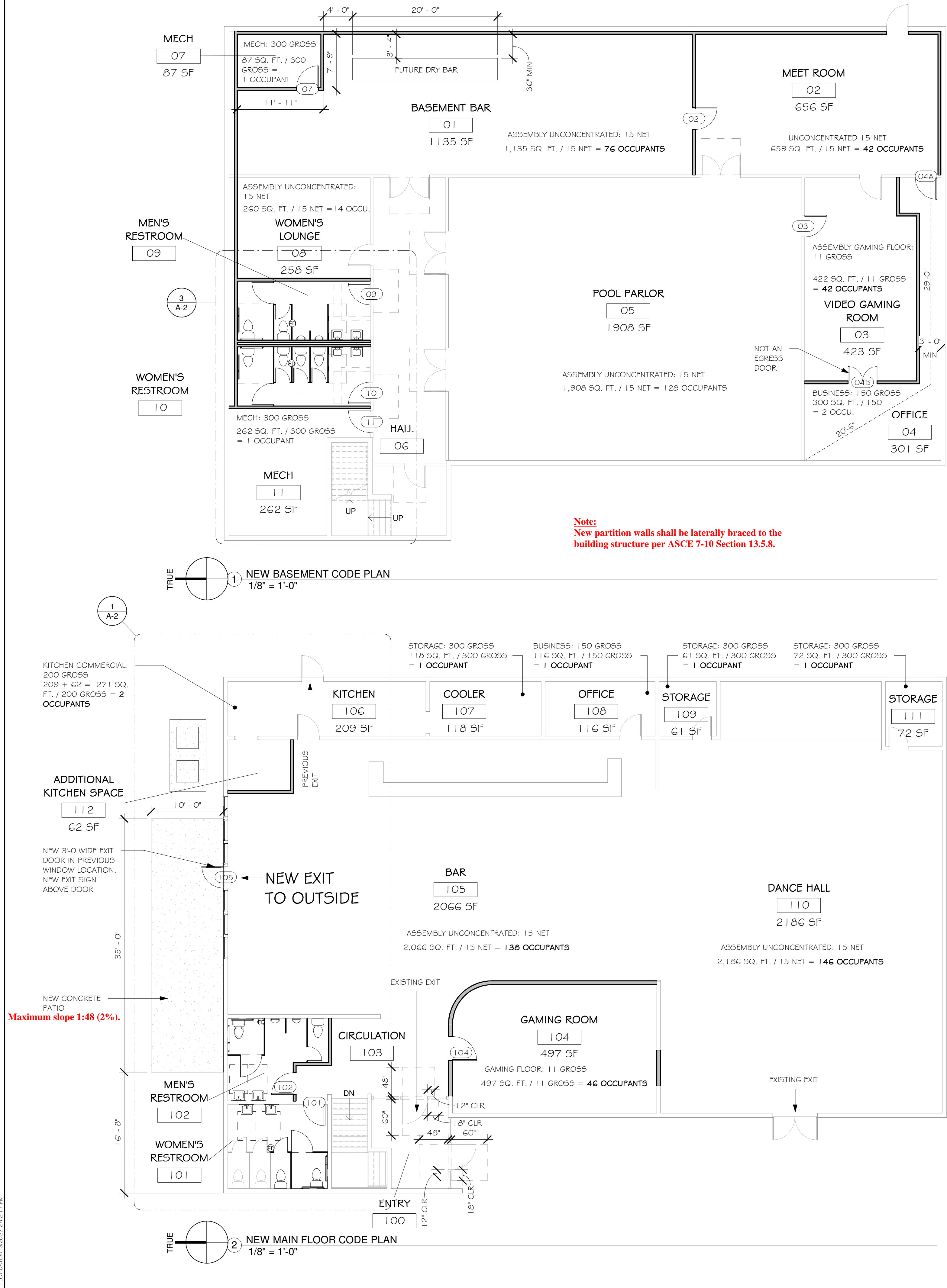
DRAWN BY:

CHECKED BY:

REVISIONS:

ADA

OF 6



IEBC 2018 CODE REVIEW

- SPRINKLERED BUILDING
- CONSTRUCTION TYPE **IV III-B**

SECTION 301 ADMINISTRATION
301.2 ALTERATION, ADDITION OR CHANGE OF OCCUPANCY
PROJECT COMPLYING WITH 301.3.1

301.3.1 PRESCRIPTIVE COMPLIANCE METHOD
ALTERATIONS, ADDITIONS AND CHANGES OF OCCUPANCY COMPLYING WITH CHAPTER 5 OF THIS CODE IN BUILDINGS COMPLYING WITH THE *INTERNATIONAL FIRE CODE* SHALL BE CONSIDERED IN COMPLIANCE WITH THE PROVISIONS OF THIS CODE.

SECTION 305 ACCESSIBILITY FOR EXISTING BUILDINGS
305.4.1 PARTIAL CHANGE OF OCCUPANCY
PROJECT SHALL COMPLY WITH SECTIONS 305.6, 305.7 AND 305.8

305.6 ALTERATIONS
A FACILITY THAT IS ALTERED SHALL COMPLY WITH THE APPLICABLE PROVISION IN CHAPTER 1.1 OF THE IBC, UNLESS TECHNICALLY INFEASIBLE. WHERE COMPLIANCE WITH THIS SECTION IS TECHNICALLY INFEASIBLE, THE ALTERATION SHALL PROVIDE ACCESS TO THE MAXIMUM EXTENT TECHNICALLY FEASIBLE.

EXCEPTIONS:
1. THE ALTERED ELEMENT OR SPACE IS NOT REQUIRED TO BE ON AN ACCESSIBLE ROUTE, UNLESS REQUIRED BY SECTION 305.7.

2. ACCESSIBLE MEANS OF EGRESS REQUIRED BY CHAPTER 10 OF THE *IBC* ARE NOT REQUIRED TO BE PROVIDED IN EXISTING FACILITIES.

305.7 ALTERATIONS AFFECTING AN AREA CONTAINING A PRIMARY FUNCTION
WHERE AN ALTERATION AFFECTS THE ACCESSIBILITY TO, OR CONTAINS AN AREA OF PRIMARY FUNCTION, THE ROUTE TO THE PRIMARY FUNCTION AREA SHALL BE ACCESSIBLE. THE ACCESSIBLE ROUTE TO THE PRIMARY FUNCTION AREA SHALL INCLUDE TOILET FACILITIES AND DRINKING FOUNTAINS SERVING THE AREA OF PRIMARY FUNCTION.

EXCEPTIONS: THE COST OF THE ADDITIONAL IMPROVEMENT TO THE MAXIMUM OF 20 PERCENT OF THE COST OF THE ALTERATION AFFECTING THE AREA OF PRIMARY FUNCTION.

305.8 SCOPING FOR ALTERATIONS
305.8.1 ENTRANCES
MAIN ENTRANCE IS ACCESSIBLE

305.8.10 TOILET ROOMS
WHERE IT IS TECHNICALLY INFEASIBLE TO ALTER EXISTING TOILET AND BATHING ROOMS TO BE ACCESSIBLE, AN ACCESSIBLE FAMILY OR ASSISTED-USE TOILET OR BATHING ROOM CONSTRUCTED IN ACCORDANCE WITH SECTION 1109.2.1 OF THE IBC IS PERMITTED. LOCATED ON SAME FLOOR AS EXISTING TOILET ROOM.

305.8.14 THRESHOLDS
THE MAXIMUM HEIGHT OF THRESHOLDS AT DOORWAYS SHALL BE 3/4". SUCH THRESHOLDS SHALL HAVE BEVELED EDGES ON EACH SIDE.

CHAPTER 5 PRESCRIPTIVE COMPLIANCE METHOD

501.2 FIRE-RESISTANCE RATING BUILDING EQUIPPED WITH FIRE SPRINKLER SYSTEM

502 ADDITIONS – N/A

503 ALTERATIONS

503.1 GENERAL ALL ALTERATION WILL COMPLY WITH THE IBC FOR NEW CONSTRUCTION

503.2 FLOOD HAZARD AREAS – N/A

503.3 – 503.13 STRUCTURAL COMPLIANCE
NO CHANGES TO EXISTING STRUCTURE OR BEARING WALLS IN THIS PROJECT.

506 CHANGE OF OCCUPANCY

506.1.1 CHANGE IN CHARACTER OF USE
A CHANGE OF OCCUPANCY WITH NO CHANGE OF OCCUPANCY CLASSIFICATION SHALL NOT BE MADE TO ANY STRUCTURE THAT WILL SUBJECT THE STRUCTURE TO ANY SPECIAL PROVISIONS OF THE APPLICABLE INTERNATIONAL CODES, WITHOUT APPROVAL OF THE CODE OFFICIAL. COMPLIANCE SHALL BE ONLY AS NECESSARY TO MEET THE SPECIFIC PROVISIONS AND IS NOT INTENDED TO REQUIRE THE ENTIRE BUILDING BE BROUGHT INTO COMPLIANCE.

506.3 STAIRWAYS
AN EXISTING STAIRWAY SHALL NOT BE REQUIRED TO COMPLY WITH THE REQUIREMENTS OF SECTION 1011 OF THE IBC WHERE THE EXISTING SPACE AND CONSTRUCTION DOES NOT ALLOW A REDUCTION IN PITCH AND SLOPE.

506.4 STRUCTURAL
506.4.1 LIVE LOADS
CHANGE OF OCCUPANCY AREAS' TRIBUTARY AND DESIGN LIVES LOADS COMPLY WITH SECTION 1607 OF IBC – IF LOADS ARE LESS THAN 5% STRUCTURAL ELEMENTS CAN BE BASED ON PREVIOUSLY APPROVED LIVE LOADS
506.4.2 SNOW AND WIND LOADS – PROJECT NOT A HIGHER RISK CATEGORY
506.4.3 SEISMIC LOADS – PROJECT NOT A HIGHER RISK CATEGORY
507.4.4 ACCESS TO RISK CATEGORY IV – N/A

IBC 2012 REFERENCED SECTIONS

CHAPTER 10 EGRESS:			
BASEMENT OCCUPANT LOAD:			
BASEMENT BAR	1,236 SQ. FT. / 15 NET	=	76 OCCUPANTS
MEETING ROOM	659 SQ. FT. / 15 NET	=	42 OCCUPANTS
VIDEO GAMING ROOM	422 SQ. FT. / 11 GROSS	=	42 OCCUPANTS
OFFICE	300 SQ. FT. / 150	=	2 OCCUPANTS
POOL PARLOR	1,908 SQ. FT. / 15 NET	=	128 OCCUPANTS
WOMEN'S LOUNGE	258 SQ. FT. / 15 NET	=	17 OCCUPANTS
MECH	372 SQ. FT. / 300 GROSS	=	2 OCCUPANT
TOTAL BASEMENT OCCUPANTS=		5,155 s.f.	309 OCCUPANTS

MAIN FLOOR OCCUPANT LOAD:			
MAIN FLOOR BAR	2,066 SQ. FT. / 15 NET	=	138 OCCUPANTS
GAMING ROOM	497 SQ. FT. / 11 GROSS	=	46 OCCUPANTS
DANCE HALL	2,186 SQ. FT. / 15 NET	=	146 OCCUPANTS
STORAGE	72 SQ. FT. / 300 GROSS	=	1 OCCUPANT
STORAGE	61 SQ. FT. / 300 GROSS	=	1 OCCUPANT
OFFICE	116 SQ. FT. / 150 GROSS	=	1 OCCUPANT
COOLER	118 SQ. FT. / 300 GROSS	=	1 OCCUPANT
KITCHEN	271 SQ. FT. / 200 GROSS	=	2 OCCUPANT
TOTAL BASEMENT OCCUPANTS=		5,386 s.f.	336 OCCUPANTS

CHAPTER 11 ACCESSIBILITY

- MAIN ENTRANCE ON GROUND FLOOR IS ACCESSIBLE
- MAIN FLOOR BATHROOMS TO BE MODIFIED FOR ACCESSIBILITY
- NEW ACCESSIBLE RESTROOMS IN BASEMENT
- NEW EMPLOYEE WORK AREA BEHIND NEW BASEMENT BAR WILL ALLOW ACCESSIBLE PASSAGE
- TABLES PROVIDED FOR ACCESSIBLE SERVICES FROM THE BAR, MAIN AND BASEMENT
- ACCESSIBLE ROUTE FROM MAIN ENTRANCE TO SERVICES ON MAIN FLOOR
- ACCESSIBLE ROUTE IN BASEMENT – STAIR ARE NOT REQUIRED TO BE UPDATED OR IS AN ELEVATOR REQUIRED BETWEEN FLOORS.

CHAPTER 29 PLUMBING FIXTURES

BASEMENT 308 OCCUPANTS
309 OCCUPANTS / 2 = 155 MEN & 155 WOMEN
155 / 40 = 3.875 (4 WATER CLOSETS)
2 LAVATORIES: 1 PER 2 WATER CLOSETS

MAIN FLOOR 327 OCCUPANTS
336 OCCUPANTS / 2 = 168 MEN & 168 WOMEN
168 / 40 = 4.2 (4 WATER CLOSETS)
2 LAVATORIES: 1 PER 2 WATER CLOSETS

DOOR SCHEDULE					
MARK	WIDTH	HEIGHT	TYPE	HARDWARE GROUP	COMMENTS
02	3' - 0"	6' - 8"	SINGLE FLUSH	GROUP 1	
03	3' - 0"	6' - 8"	SINGLE FLUSH	GROUP 1	
04A	3' - 0"	6' - 8"	SINGLE FLUSH	GROUP 2	
04B	4' - 0"	6' - 8"	DOUBLE FLUSH	GROUP 3	
07	3' - 0"	6' - 8"	SINGLE FLUSH	GROUP 2	
09	3' - 0"	6' - 8"	SINGLE FLUSH	GROUP 1	
10	3' - 0"	6' - 8"	SINGLE FLUSH	GROUP 1	
11	3' - 0"	6' - 8"	SINGLE FLUSH	GROUP 2	
101	3' - 0"	7' - 0"	SINGLE FLUSH	GROUP 1	
102	3' - 0"	7' - 0"	SINGLE FLUSH	GROUP 1	
104	3' - 4"	7' - 0"	SINGLE FLUSH	GROUP 1	
105	3' - 0"	7' - 0"	INSULATED EXTERIOR FULL LITE - SWINGING	GROUP 4	INSULATED DOOR

DOOR NOTES:
1. ALL GLAZING IN DOOR TO BE TEMPERED GLASS, INSULATED @ EXTERIOR DOORS
2. VERIFY ALL DOOR HARDWARE W/ OWNER

HARDWARE GROUPS: ALL HARDWARE TO BE LEVER TYPE
GROUP 1: PASSAGE LATCH SET, DOOR STOP
GROUP 2: PRIVACY LOCKSET, ALWAYS OPENABLE FROM INSIDE
GROUP 3: LATCH BOLT ON 1 LEAF WITH PRIVACY LOCKSET ON OTHER LEAF, ALWAYS OPENABLE FROM INSIDE
GROUP 4: NEW KEYED DEADBOLT WITH PUSH/PULL AND ADA CLOSER, SIGNED 'THIS DOOR MUST REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED'.

GENERAL PLAN NOTES:
1. EXISTING CONSTRUCTION SHOWN GRAY SCALE (TYP)
2. DIMENSIONS ARE FROM FACE OF STUD, EXISTING WALL FINISH OR CENTER LINE OF DOOR/WINDOW OPENING.
3. TEMPERED GLASS (T.G.) TO BE PROVIDED AT ALL HAZARDOUS LOCATIONS AS DEFINED BY 2018 IBC SECTION 2406.4 - SEE PLANS AND WINDOW ELEVATIONS FOR MORE INFORMATION
4. WHERE NEW DOORS & WINDOWS - INSTALL NEW STUD/TRIMMER EACH SIDE OF OPENING & (2) 2X6 HEADERS (TYP)

NOTE:
THE STATE OF MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY OVERSEES THE PROPER ABATEMENT OF ASBESTOS AND THE PHONE NUMBER FOR ACCURATE INFORMATION IS (406) 444-2690. IF THIS PROJECT HAS ANY QUESTIONS AND CONCERNS YOU ARE TO CALL THE DEQ FOR PROPER INSTRUCTIONS.

CODE REVIEW AND ACCESSIBILITY FOR:
LUX NIGHTCLUB
801 NORTH FEE STREET,
HELENA, MONTANA

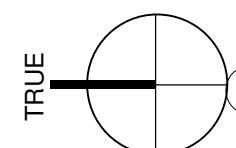
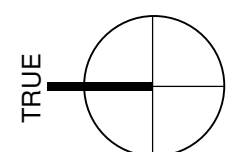
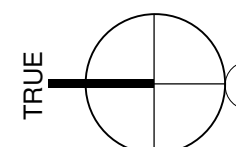
CODE PLAN	
PERMIT COPY THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES	
PROJECT NUMBER:	22.013
DATE:	04.13.2022
DRAWN BY:	TEE
CHECKED BY:	TEE
REVISIONS:	
A-1	
OF	Approver



3530 CENTENNIAL DRIVE
HELENA, MONTANA 59601
(406) 204-1288

801 NORTH FEE STREET,
HELENA, MONTANA

OF	Approved
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












4 DEMO BASEMENT PLAN
1/4" = 1'-0"

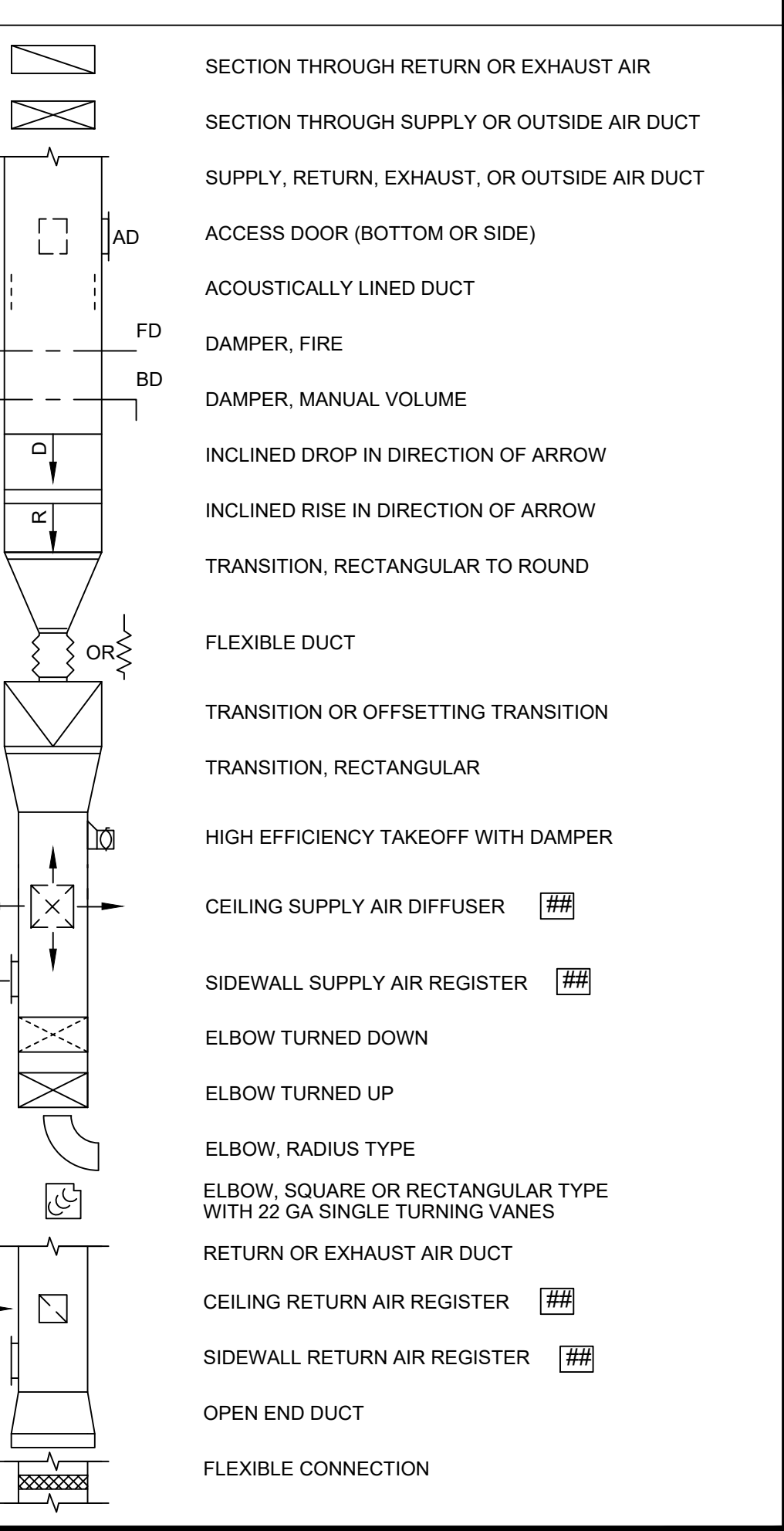


FOURFRONT
DESIGN INC.

ANS KEY

SYMBOL	DESCRIPTION
	DUCT THERMOSTAT
	HUMIDISTAT, ROOM
	HUMIDISTAT, DUCT
	PRESSURE SWITCH
	TEMPERATURE TRANSMITTER (SENSOR)
	PRESSURE TRANSMITTER OR SWITCH
	DIFFERENTIAL PRESSURE CONTROLLER
	BACKDRAFT DAMPER, GRAVITY
	POINT OF CONNECTION SYMBOL
	ROUND DUCT-REFER TO SYSTEM SERVED
	ROUND LINED OR DOUBLE WALL DUCT

DUCTWORK SYMBOLS KEY



FURNISH ALL LABOR AND MATERIALS AND PERFORM ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF COMPLETE AND OPERATING MECHANICAL SYSTEMS SUBJECT TO THE CONDITIONS OF THE CONTRACT. PROVIDE SATISFACTORY OPERATION OF ALL EQUIPMENT AND CONTROLS TO THE ARCHITECT/ENGINEER UPON REQUEST.

VISIT THE PREMISES BEFORE SUBMITTING BID AS NO CHANGE ORDERS WILL BE ALLOWED FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

COORDINATE AND ORDER THE PROGRESS OF WORK TO CONFORM TO THE PROJECT SCHEDULE AND THE PROGRESS OF THE WORK OF THE OTHER TRADES.

MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND BECAUSE OF THE SMALL SCALE, IT IS NOT POSSIBLE TO INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. VERIFY ALL SPACE REQUIREMENTS, COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.

PERFORM WORK IN ACCORDANCE WITH GOOD COMMERCIAL PRACTICE. THE GOOD APPEARANCE OF THE FINISHED WORK SHALL BE OF EQUAL IMPORTANCE WITH ITS MECHANICAL EFFICIENCY AND INTENT. THE OWNER MAY REJECT WORK IF WORKMANSHIP AND APPEARANCE ARE NOT SATISFACTORY.

INSTALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AND ORDINANCES. COMPLY WITH REQUIREMENTS OF THE UTILITY COMPANIES. IN THE CASE OF DIFFERENCES BETWEEN THESE REQUIREMENTS AND ORDINANCES, THE MOST STRINGENT SHALL GOVERN. CALL FOR INSPECTIONS REQUIRED BY LOCAL BUILDING INSPECTION AUTHORITY.

PLANS AND SPECIFICATIONS GO HAND IN HAND. WHAT IS REQUIRED IN ONE IS REQUIRED IN BOTH. WHERE CONFLICTS BETWEEN SPECIFICATIONS AND PLANS EXIST, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.

MECHANICAL PLANS SUPERCEDE ARCHITECTURAL PLANS.
BACKGROUND FLOOR PLANS USED FOR MECHANICAL DRAWINGS
MAY SHOW DIFFERENT THAN THE FINAL ARCHITECTURAL LAYOUT.
REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL DIMENSIONS
AND LAYOUT PLACEMENTS FOR SPACE CONDITIONS.

MECHANICAL DETAILS MAY OR MAY NOT BE DIRECTLY REFERENCED. ALL DETAILS SHOWN ARE TO BE USED FOR BASIS OF INSTALLATION IN ALL CASES, IN COORDINATED EFFORT WITH MANUFACTURERS INSTALLATION RECOMMENDATIONS.

MECHANICAL SHEETS ARE NOT INTENDED TO SPECIFICALLY BE
TRADE SPECIFIC TO MECHANICAL INSTALLATION WORK. ALL
MECHANICAL AND ELECTRICAL TRADES ARE RESPONSIBLE FOR
FAMILIARIZING THEMSELVES AND INCLUDING A COMPLETE
PACKAGE WITHIN THEIR OFFER FOR A COMPLETE SYSTEM.

AT COMPLETION OF WORK, DELIVER COMPLETED PROJECT RECORD DOCUMENTS MARKED WITH FIELD CHANGES TO OWNER.

PROVIDE A WRITTEN WARRANTY TO THE OWNER COVERING THE ENTIRE MECHANICAL WORK TO BE FREE FROM DEFECTIVE MATERIALS, EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER DATE OF ACCEPTANCE.

CLEAN EXPOSED SURFACES OF FURNACES, HOT WATER HEATERS, PLUMBING FIXTURES AND OTHER EXPOSED ITEMS OF GREASE, DIRT OR OTHER FOREIGN MATERIAL. REMOVE RUBBISH AND DEBRIS RESULTING FROM THE OPERATIONS AND LEAVE EQUIPMENT SPACES CLEAN AND READY FOR USE.

MAINTAIN ALL CEILING, FLOOR AND WALL FIRE AND SMOKE PROTECTION RATINGS. SEAL ALL CONDUIT AND ENCLOSURE PENETRATIONS TO COMPLY WITH UL ASSEMBLY AND BUILDING CODE REQUIREMENTS. ALL SEALANTS AND CONSTRUCTIONS SHALL BE APPROVED BY OWNER PRIOR TO APPLICATION. ALL OPENINGS SHALL BE SEALED DAILY.

CONTRACT DRAWINGS FOR MECHANICAL WORK ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, CONDUITS, AND APPROXIMATE SIZES AND LOCATIONS OF EQUIPMENT AND OUTLETS. MECHANICAL/ELECTRICAL TRADES SHALL FOLLOW THESE DRAWINGS IN LAYING OUT THEIR WORK. CONSULT GENERAL CONTRACTOR FOR ANY CHANGES TO WORK THEMSELVES WITH ALL CONDITIONS AFFECTING THEIR WORK, AND SHALL VERIFY SPACES IN WHICH THEIR WORK WILL BE INSTALLED. COORDINATE WORK WITH OTHER TRADES AND AS PROJECT CONDITIONS REASONABLY REQUIRE WITHOUT EXTRA COSTS TO OWNER.

HVAC SPECIFIC:
ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE
INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE
INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.

PROVIDE ALL 90 DEGREE SQUARE ELBOWS WITH SINGLE RADIUS
TURNING VANES UNLESS OTHERWISE INDICATED.

COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING ITEMS AND MAKE DUCT MODIFICATIONS TO SUIT.

AT CONTRATORS OPTION, FLEXIBLE DUCT MAY BE USED TO CONNECT SUPPLY REGISTERS AND DIFFUSERS ON THIS PROJECT ONLY. RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 5 FEET, UNLESS SPECIFICALLY SHOWN ON DRAWING.

ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

MECHANICAL SYSTEMS SHALL COMPLY WITH INTERNATIONAL MECHANICAL CODE VER 2018 AND INTERNATIONAL ENERGY CODE VER 2018.

PLUMBING/PIPING SPECIFIC:
PLUMBING/PIPING SYSTEMS SHALL COMPLY WITH INTERNATIONAL
FUEL GAS CODE VER 2018 AND UNIFORM PLUMBING CODE VER 2018.

UTILITIES:
LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE EXACT LOCATIONS IN THE FIELD (NOT ALL UTILITIES ARE SHOWN).

REGULATORY AND CODE REQUIREMENTS:
APPLY FOR AND PAY FOR ALL PERMITS, FEES, LICENSES AND INSPECTIONS. ALL WORK IS SUBJECT TO APPROVAL BY THE CODE OFFICIAL AND ENGINEER. ALL CORRECTIONS SHALL BE MADE WITHOUT EXTRA COSTS TO OWNER.

PLUMBING/PIPING SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GATE, BALL, OR FUEL SOV VALVE		UNION, THREADED OR FLANGED
	GLOBE VALVE		WATER HAMMER ARRESTOR
	GAS COCK		FLOOR DRAIN
	PLUG VALVE		FLOOR SINK
	SOLENOID VALVE		FLOOR CLEANOUT, INT. OR EXT.
	PRESSURE REDUCING VALVE		WALL CLEANOUT
	CHECK VALVE		1/4 TURN BOILER DRAIN W/CAP
	PRESS./TEMP. RELIEF VALVE		HOSE BIBB, INTERIOR OR EXTERIOR
	RPP BACKFLOW PREVENTOR		90 DEGREE ELBOW (UP, DOWN, PLAN)
	DOUBLE CHECK BACKFLOW PREV.		TEE FITTING (UP, DOWN, PLAN)
	WATER METER		WYE (PLAN VIEW)
	PRESSURE REDUCING VALVE		COMBINATION WYE & 1/8 BEND
	THERMOMETER WITH WELL		WYE (VERTICAL) WITH 1/4 BEND
	PRESSURE GAGE WITH SHUTOFF		LONG RADIUS SAN. SEWER FITTING
	PRESSURE SWITCH		AUTOMATIC BALANCING VALVE
	PUMP		MANUAL BALANCING VALVE
	CONTROL VALVE, 2-WAY		DIRECTION OF FLOW
	CONTROL VALVE, 3-WAY		STRAINER, CAST IRON OR BRONZE
	NG OR LP EQUIPMENT REGULATOR		STRAINER WITH BLOW DOWN & PLUG
	FLEXIBLE PIPE CONNECTOR		EXPANSION VALVE
	STEAM TRAP		AUTO AIR VENT, EXTEND TO DRAIN
	POINT OF CONNECTION SYMBOL		FLOW SWITCH

1. OPERATING AMPERAGE MEASURED UNDER FULL LOAD.
2. MEASURED VOLTAGE AT EACH UNIT.
3. ESP OF EACH AIR MOVING EQUIPMENT.
4. TOTAL MEASURED AND ADJUSTED CFM RETURN, SUPPLY, OUTSIDE AIR,
AND EXHAUST.
5. INITIAL PRESSURE DROP ACROSS FILTERS.
6. GPM AND HEAD OF PUMPS.
7. CFM GRILLES, REGISTERS , AND DIFFUSERS.
8. INITIAL AND FINAL OUTDOOR AIR CFM.

D. P-1.

A HANDWRITTEN REPORT ON REDLINE CONDITIONS, BALANCING INFORMATION, AND INFORMATION REQUESTED ABOVE SHALL BE SUBMITTED TO THE ENGINEER.

SHEET #	SHEET TITLE
M 0.0	MECHANICAL REQUIREMENTS & SPECIFICATIONS
M 0.1	MECHANICAL GENERAL DETAILS
M 0.2	MECHANICAL SCHEDULES AND DETAILS
M 1.0	BASEMENT PLUMBING DEMOLITION PLAN
M 1.1	MAIN FLOOR PLUMBING DEMOLITION PLAN
M 1.2	BASEMENT PLUMBING REMODEL PLANS
M 1.3	MAIN FLOOR PLUMBING REMODEL PLAN
M 2.0	MAIN FLOOR HVAC DEMOLITION PLAN
M 2.1	BASEMENT HVAC REMODEL PLAN
M 2.2	MAIN FLOOR HVAC REMODEL PLAN

Project Number: 22.2620.M01

Issued for Permit: 4/8/2022

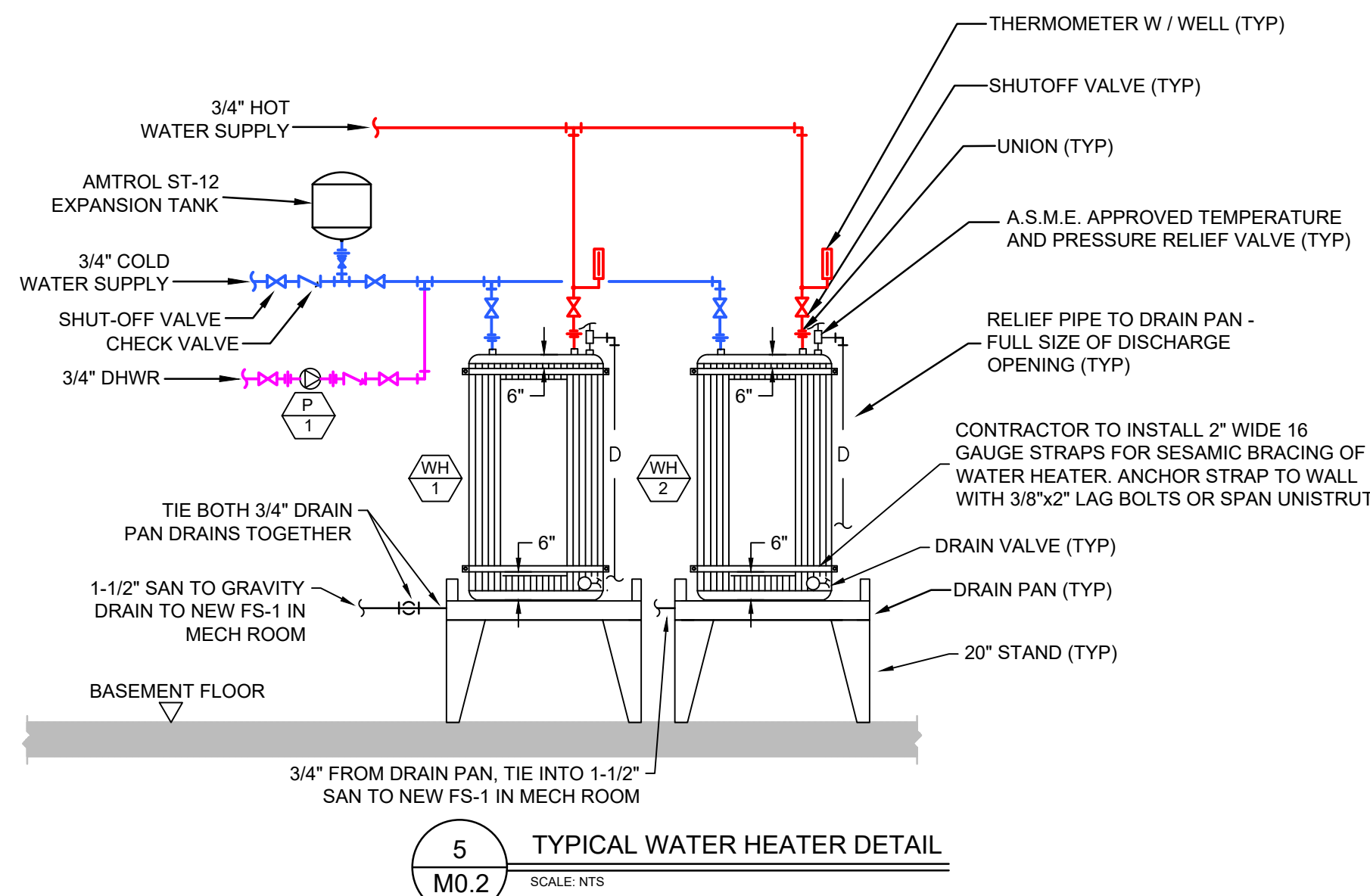
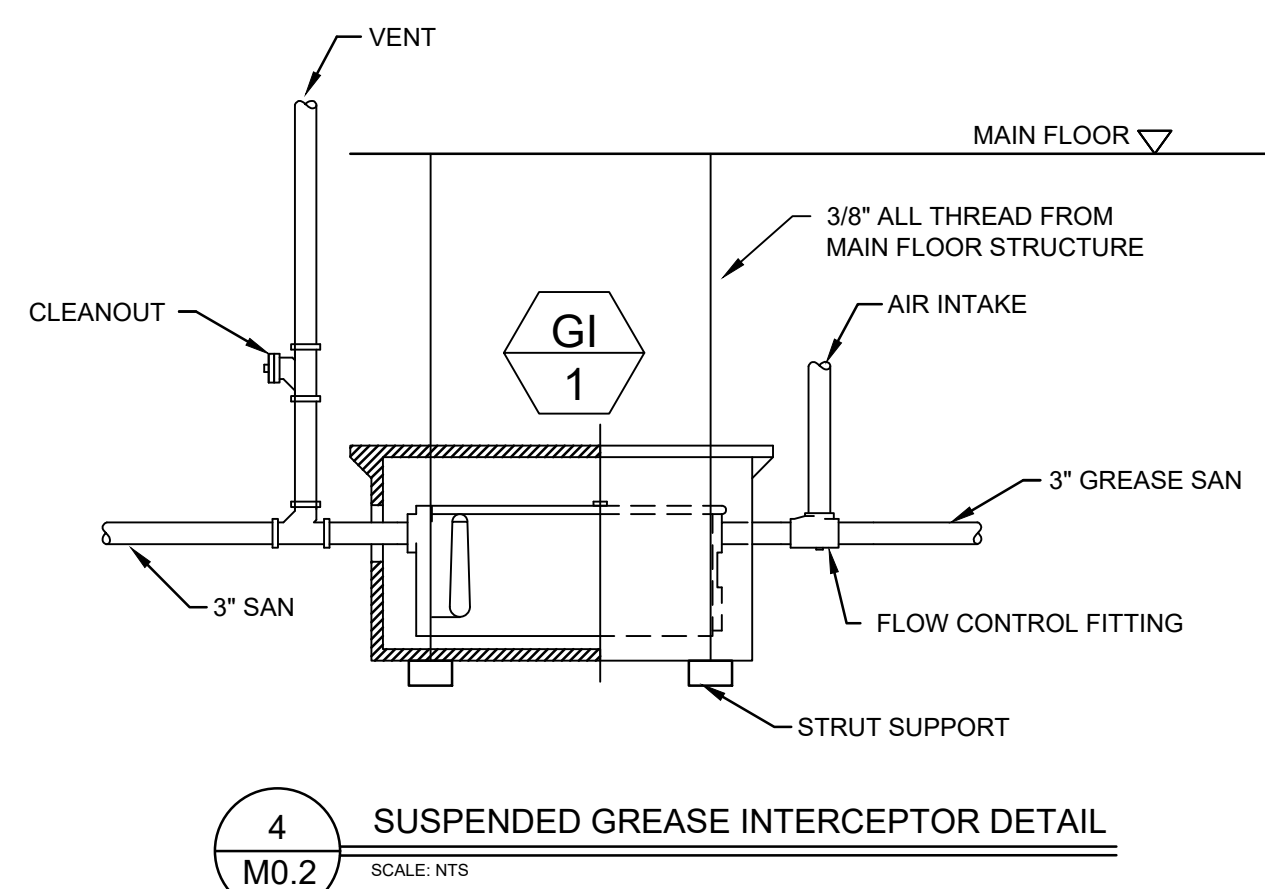
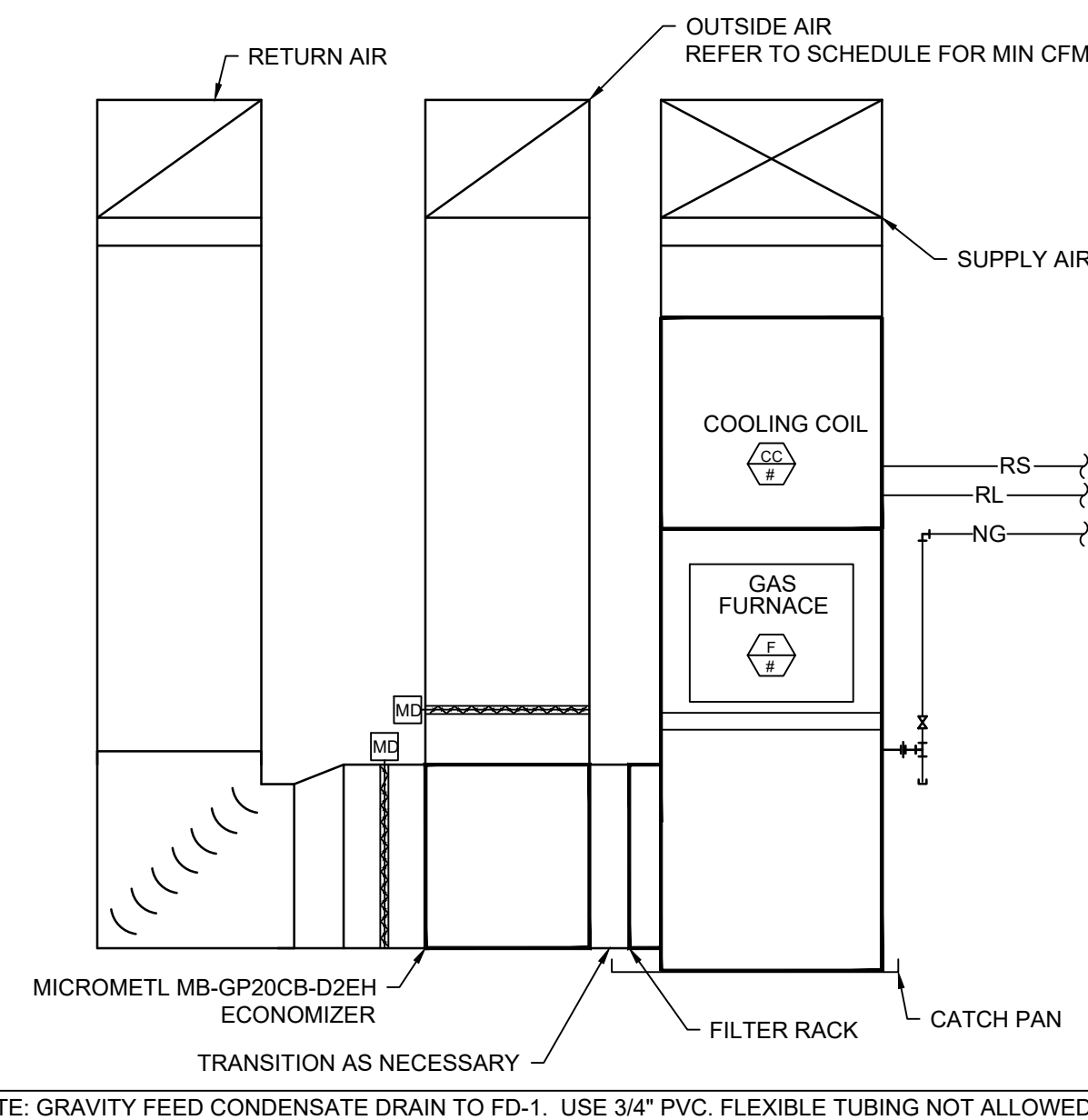
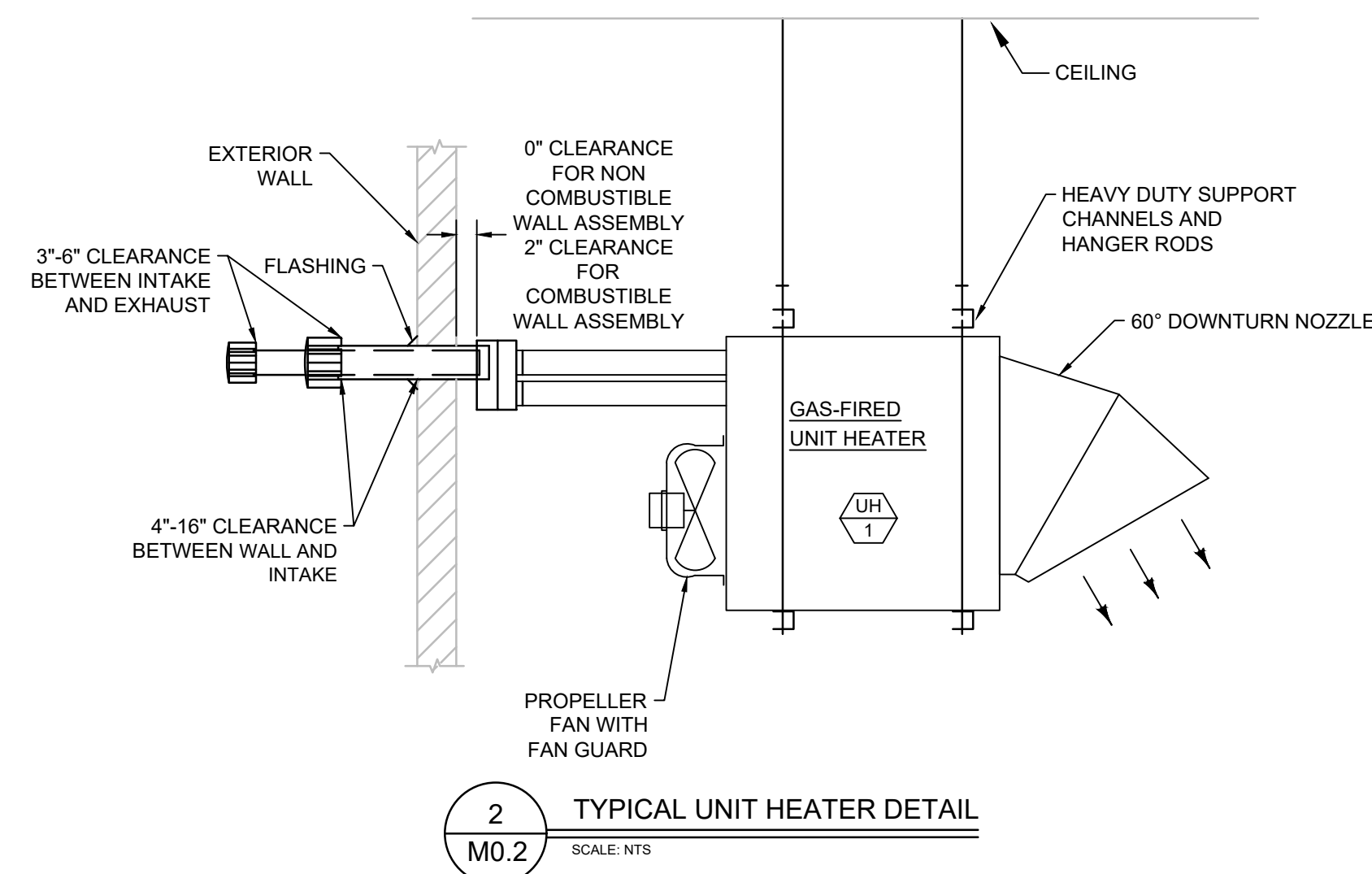
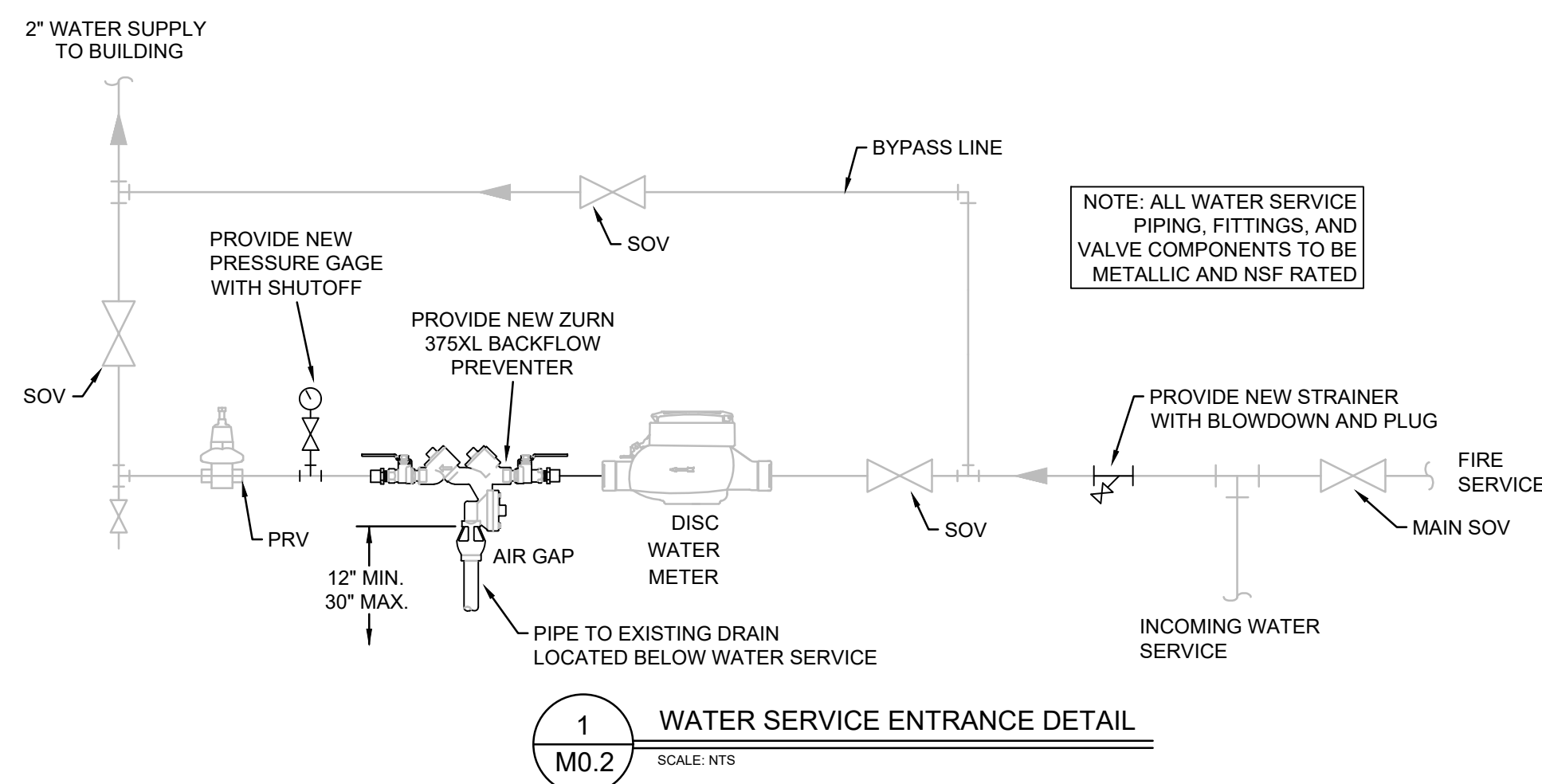
MECHANICAL REQUIREMENTS & SPECIFICATIONS

M 0.0

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PERMIT DOCUMENTS

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AIR COOLED CONDENSING UNIT SCHEDULE											CUR #
EQIP. NO.	SERVICE	COOLING CAPACITY (TONS)	SEER	REFRIG. CONC.		ELECTRICAL				MANUFACTURER & MODEL	OPTIONS/ACCESSORIES
				LIQUID	VAPOR	VOLT-FH-OT	PHASE	WGA	MBEP		
CU-1	COOLING	5	16.0	3/8"	7/8"	208/60/1	29.6	50		GOODMAN GSX160601	1.2
CU-2	COOLING	5	16.0	3/8"	7/8"	208/60/1	29.6	50		GOODMAN GSX160601	1.2

NOTES:

- SIZE AND INSTALL REFRIGERANT PIPING PER MANUFACTURER RECOMMENDATIONS.
- PROVIDE WITH FACTORY SIZED TXV VALVE ON THE INDOOR COIL AND FREEZE PROTECTION KIT.

NATURAL GAS FIRED FURNACE & COOLING COIL SCHEDULE														F	GO
COURTMENT NO.	SERVICE	SUPPLY AIR (CFM)	AIR OUTLET (CFM)	MIN. OUTLET TEMP. (IN °F.)	STANDARD RATIO (IN %)	INLET TEMP. MAX	OUTPUT INLET MAX/IN	EFFICIENCY (IN %)	MOTOR (HP)	ELECTRIC			MANUFACTURER & MODEL	NOTES	
										MOOP	MCA	VOLT-PLH CY			
F-1	H/C/V	1990	570	0.40	120	115	96%	1.0	15.0	13.3	120/1/60	GOODMAN-GMEC961205DNA	1,2,5		
F-1	H/C/V	1990	570	0.40	120	115	96%	1.0	15.0	13.3	120/1/60	GOODMAN-GMEC961205DNA	1,2,5		
CC-1	COOL	1990	-	-	-	-	-	-	-	-	-	GOODMAN-GACTA66030D4	4		
CC-2	COOL	1990	-	-	-	-	-	-	-	-	-	GOODMAN-GACTA66030D4	4		
NOTES:															
1. PROVIDE WITH HONEYWELL VISION PRO 8000 THERMOSTAT WITH CLEAR LOCKBOX.															
2. PROVIDE WITH SIDE MOUNT FILTER RATER AND FILTER (16x25x2). CONTRACTOR TO SUPPLY 4 EXTRA FILTERS PER FURNACE.															
3. PROVIDE WITH MICROMETL MB-GP20CB-D2EH ECONOMIZER PACKAGE.															
4. PROVIDE FACTORY SIZED R/L PIPING AND MATCHED TXV VALVE FOR SPECIFIED COIL.															
5. PROVIDE WITH FACTORY 3"O COMB AIR/FIUE SIDEWALL TERMINATION KIT.															

NATURAL GAS FIRED UNIT HEATER SCHEDULE											UNIT #	
EQUIPMENT NO.	SERVICE	SUPPLY AIR (CFM)	EXTERNAL STATIC PRESS. (IN. W.G.)	INPUT (BTU/H MAX/MIN)	OUTPUT (BTU/H MAX/MIN)	EFFICIENCY (%)	BLOWER MOTOR (HP)	ELECTRIC		MANUFACTURER & MODEL	OPTIONS-ACCESSORIES	
								MDP	FLA	VOLT-PH-CY		
UH-1	HEATING	1921		150	124.5	81.5	1/6	15	3.8	120-1-60	REZNOR UHZ-150	1,2,3,4

NOTES:

1. PROVIDE WITH FACTORY THERMOSTAT.
2. PROVIDE WITH HORIZONTAL SEALED COMBUSTION VENT KIT AND VENT CAP.
3. PROVIDE WITH 3/8" ALL-THREAD TO FACTORY HANGING POINTS (x4).
4. PROVIDE WITH 60" DOWNTURN NOZZLE.

REGISTER/EXTRACTOR		REGISTER/CEILING	REGISTER/UPPER	REGISTER/DRIFF	EXTRACTOR/DRIFF	TO TRANSFER DRIFF
HX NO	NECK SIZE	TYPE	MANUFACTURER & MODEL		MATERIAL	OPTIONS & ACCESSORIES
SG-1	12"x4"	DOUBLE DEFLECTION LOUVERED DUCT GRILLE	NALOR 51DHC-DEX		ALUM.	1,2
SG-2	14"x4"	DOUBLE DEFLECTION LOUVERED DUCT GRILLE	NALOR 51DHC-DEX		ALUM.	1,2
SD-1	8"Ø	LOUVERED SQUARE CEILING SUPPLY SURFACE	NALOR ARNS-8-L		ALUM.	1,3
RG-1	20" X 20"	CEILING LAY-IN FIXED LOUVER RETURN GRILLE	NALOR-7145H-L		ALUM.	1
RG-2	14" X 36"	WALL MOUNT FIXED LOUVER RETURN GRILLE	NALOR-7145H-S		ALUM.	1
EG-1	20" X 20"	CEILING LAY-IN FIXED LOUVER RETURN GRILLE	NALOR-7145H-L		ALUM.	1


NOTES:

1. PROVIDE WITH ALL REQUIRED HARDWARE FOR MOUNTING INDICATED IN SCHEDULE ABOVE.
2. PROVIDE WITH FACTORY DAMPER/EXTRACTOR.
3. PROVIDE WITH FACTORY DAMPER.

FAN SCHEDULE										EP #
EQUIP NO.	SERVICE	LOCATION	CFM	STATIC PRESS. (IN. WG.)	MOTOR			MANUFACTURER & MODEL		NOTES
					AMP	HP	SDRGS	VOLT./PH./CY		
EF-1	EXHAUST (INLINE)	UPPER RESTROOM CEILING	480	0.30	2.45	-	1.4	120-160	GREENHECK CSP-A510-VG	1.2
EF-2	EXHAUST (INLINE)	LOWER RESTROOM CEILING	480	0.30	2.45	-	1.4	120-160	GREENHECK CSP-A510-VG	1.2
MUA-1	MAKEUP AIR	KITCHEN WALL	2200	0.25	7.2	1/3	-	120-160	CAPTIVEAIRE DMUA118-FA	3
NOTES:										
1. PROVIDE WITH BACKDRIFT DAMPER, SPEED CONTROL, VIBRATION ISOL HANGING KIT, AND GALVANIZED WALL CAP FOR EXTERIOR. PAINT WALL CAP PER COLOR SELECTED BY ARCHITECT.										
2. RESTROOM CEILING OCCUPANCY SENSORS TO ENABLE FAN, MINIMUM 20 MIN DELAY OFF.										
3. PROVIDE WITH FACTORY WALL MOUNT SLIDE, MOTORIZED DAMPER, AND DISCONNECT SWITCH. CONNECT TO EXISTING KITCHEN EXHAUST HOOD SWITCH, TO ENABLE WHENEVER EXISTING KITCHEN EXHAUST HOOD IS RUNNING.										

ELECTRIC WATER HEATER SCHEDULE							W/H #
ITEM NO	CAPACITY STORAGE	RECOVERY (HOURS) R. RISE	HEATING ELEMENT KW	ELECTRIC VOLT/PH	WATER CONN.	MANUFACTURER & MODEL	REMARKS
WH-1	50	21/90	4.5	208/1	3/4"	BRADFORD WHITE RE250T6	1
NOTES: 1. PROVIDE WITH GALVANIZED DRAIN PAN. PIPE DRAIN PAN TO EXISTING FLOOR SINK.							

PUMP SCHEDULE											SP #
ITEM NO.	SERVICE	LOCATION	GPM	HEAD (FT)	SIZE	MOTOR				MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
						HP	RM	VOLT-IPH-PHY.	FLA		
P-1	HOT WATER RECIRC	KITCHEN	2.0	1.5	3/4"	-	-	120-1-60	0.9	GRUNDFOS UPS 15-35 SFC	1
<u>NOTES:</u> 1. SET TO RECIRCULATE AT SCHEDULE SET BY OWNER OCCUPANCY.											

PLUMBING SPECIALTY SCHEDULE							
SPECIALTY TAG	DESCRIPTION	MANUFACTURER & MODEL #	PRINTING NOTES				
			TRAP	SW	VENT	C.W.	W.V.
FD-1	FLOOR DRAIN	ZURN ZN15BZ-3	3"	2"	½"		-
FD-1	FLOOR DRAIN	ZURN ZN15BZ-2	3"	2"	½"		-
WCO-1	WALL CLEANOUT	ZURN Z1441	2"				
FCO-1	FLOOR CLEANOUT	ZURN ZN1400-S	3"				
NOTES:							
PLUMBING SPECIALTY MAY BE CALLED OUT ON PLANS AS TAGGED, SPECIFICALLY CALLED FOR IN NOTES/DETAILS, OR NOT AT ALL. IF REFERENCE TO ANY OF THE ABOVE SPECIALTY IS NOT SPECIFICALLY CALLED OUT, THIS SCHEDULE ALSO PROVIDES BASIS OF SPECIFICATION FOR SUPPLY BY THE CONTRACTOR.							

PLUMBING FIXTURE SCHEDULE

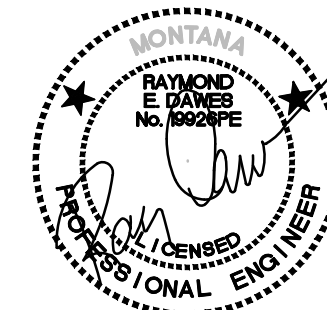


FIXTURE TAG	DESCRIPTION	MANUFACTURER & MODEL #	SPRINK CONNECTIONS					REMARKS
			TRAIL	5/8"	3/4"	1"	OTHER	
LAV-1	WALL-MOUNT LAVATORY	GERBER WEST POINT G0012354	1 1/2"	2"				
	AUTO CONTROL FAUCET	GERBER G0044542			1/2"	1/2"		
	WATER SUPPLY WITH STOP KIT	BRASSCRAFT KTCR19X C 1/4 TURN KIT						
	P-TRAP DRAIN ASSEMBLY	DEARBORN BRASS 704-1						1
	LAVATORY CARRIER	JAY R SMITH 0801						
WC-1	UNDERSINK MIXING VALVE	WATTS LFUSG-B UNDER SINK GUARDIAN						
	FLOOR MOUNT PRESSURE ASSIST WC	GERBER ULTRA FLUSH G0021318	3"	2"	1/2"			2,3
	ELONGATED OPEN FRONT-ADA SEAT	BEMIS 1955C2 OPEN FRONT SEAT						
	WATER SUPPLY WITH STOP	BRASSCRAFT KTCR19X C 1/4 TURN KIT						4
UR-1	WAX FREE WATER CLOSET SEAL	FERNOX FTS-3						
	WALL MOUNT TOP SPUD URINAL	GERBER NORTH POINT GHE27720	2"	2"				
	TOP SPUD FLUSH VALVE	AMERICAN STANDARD 6145051.002			3/4"			4
GI-1	URINAL CARRIER	JAY R SMITH 0614						
	GREASE INTERCEPTOR	ZURN RC-35LP	3"	2"				5

NOTES:

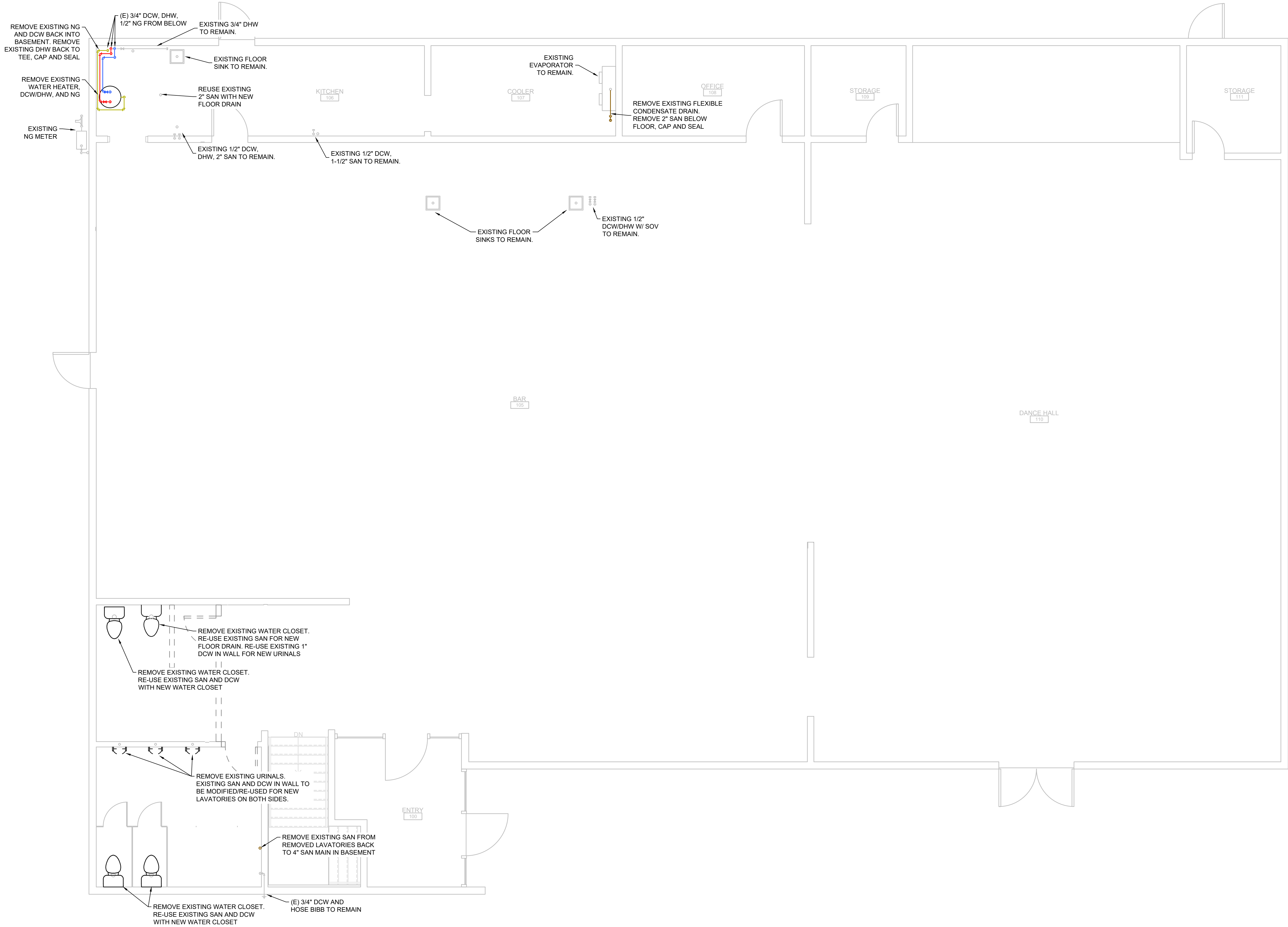
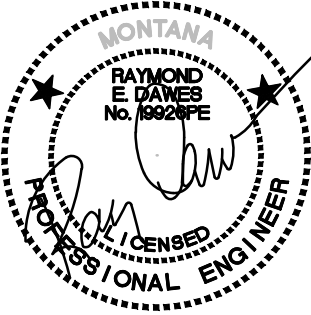
1. PROVIDE ADA OFFSET TRAP ASSEMBLY WITH INSULATION KIT.
2. COORDINATE COLOR OF FIXTURE DURING SUBMITTAL PROCESS. OWNER TO SELECT COLORS.
3. PROVIDE 1" ROUGH IN CLEARANCE BEHIND WATER CLOSET FOR WAINSCOT THICKNESS ALLOWANCE. COORDINATE WITH GC PRIOR TO ROUGH IN.
4. COORDINATE TRIP LEVER LOCATION TO MATCH THE WIDE APPROACH SIDE FOR ADA COMPLIANCE PRIOR TO ORDERING.
5. HANG IN BASEMENT MECH ROOM. PROVIDE 3/8" ALL THREAD AND STRUT FROM MAIN FLOOR STRUCTURE.

GRD ID SCHEDULE				
	TAG	STYLE	CFM	NECK SIZE
01	SG-1	165	12"x4"	
02	SG-1	165	12"x4"	
03	SG-1	165	12"x4"	
04	SG-1	165	12"x4"	
05	SG-1	165	12"x4"	
06	SG-1	165	12"x4"	
07	SG-1	165	12"x4"	
08	SG-1	165	12"x4"	
09	SG-1	165	12"x4"	
10	SG-2	250	14"x4"	
11	SG-2	250	14"x4"	
12	SG-2	250	14"x4"	
13	SG-2	250	14"x4"	
14	SG-2	250	14"x4"	
15	SG-2	250	14"x4"	
16	SG-2	250	14"x4"	
17	SG-2	200	14"x4"	
18	SD-1	180	8"Ø	
19	SD-1	150	8"Ø	
20	SD-1	150	8"Ø	
21	RG-1	-	20"x20"	
22	RG-1	-	20"x20"	
23	RG-1	-	20"x20"	
24	RG-1	-	20"x20"	
25	RG-1	-	20"x20"	
26	RG-1	-	20"x20"	
27	RG-1	-	20"x20"	
28	RG-1	-	20"x20"	
29	RG-2	-	14"x36"	
30	RG-2	-	14"x36"	
31	EG-1	240	20"x20"	
32	EG-1	240	20"x20"	
33	EG-1	240	20"x20"	
34	EG-1	240	20"x20"	





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1
M1.1
SCALE: 1/4" = 1'
MAIN FLOOR PLUMBING DEMOLITION PLAN

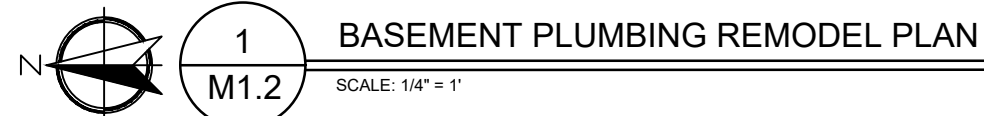
PERMIT DOCUMENTS

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THE LUX NIGHTCLUB
801 NORTH FEE STREET
HELENA, MONTANA 59601

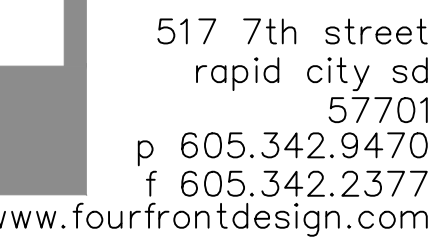
Project Number: 22.2620.M01
Issued for Permit: 4/8/2022

MAIN FLOOR PLUMBING
DEMOLITION PLAN
M 1.1



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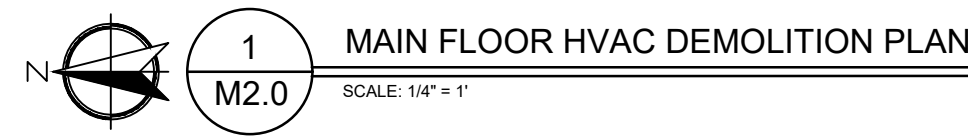


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M 1.3

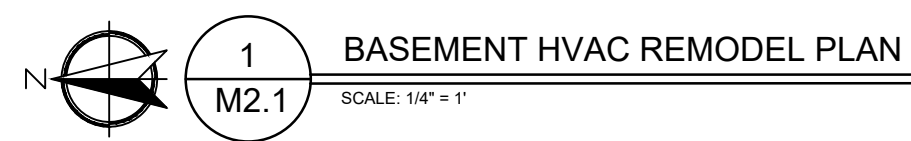
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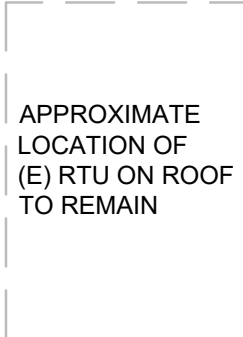
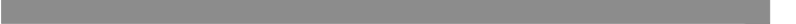


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ELECTRICAL LEGEND			
SYMBOL		DESCRIPTION	
			MOTOR, SINGLE-PHASE
			MOTOR, THREE-PHASE
			TRANSFORMER
			EARTH GROUND
			DISCONNECT SWITCH, FUSED
			DISCONNECT SWITCH, UNFUSED
			STARTER, COMBINATION WITH DISCONNECT SWITCH
			STARTER OR MOTOR CONTROLLER
			VARIABLE FREQUENCY DRIVE
			TIME CLOCK
			SWITCH, SPST
			SWITCH, DPST
			SWITCH, THREE WAY
			SWITCH, THREE WAY DIMMER
			SWITCH, THREE WAY OCCUPANCY SENSOR
			SWITCH, FOUR WAY
			SWITCH, DIMMER
			SWITCH, DOOR JAMB
			SWITCH, FOUR WAY OCCUPANCY SENSOR
			SWITCH, FUSED
			SWITCH, MOMENTARY CONTACT
			SWITCH, OCCUPANCY SENSOR
			SWITCH, OCCUPANCY SENSOR DIMMER
			SWITCH, WITH PILOT LIGHT
			SWITCH, PUSH BUTTON
			SWITCH, PHOTOCELL
			SWITCH, REMOTE CONTROL
			SWITCH, WEATHER PROOF
			SWITCH, EXPLOSION PROOF
			COMMUNICATIONS FLOOR RECEPTACLE
			COMMUNICATIONS WALL RECEPTACLE
			COMMUNICATIONS CEILING RECEPTACLE
			TELEVISION FLOOR RECEPTACLE
			C = CAMERA (CCTV SYSTEM)
			M = MONITOR (CATV SYSTEM)
			AV= AUDIO VISUAL (CONFERENCE ROOM CONNECTION RECEPTABLES)
			TELEVISION WALL RECEPTACLE
			C = CAMERA (CCTV SYSTEM)
			M = MONITOR (CATV SYSTEM)
			AV= AUDIO VISUAL (CONFERENCE ROOM CONNECTION RECEPTABLES)
			TELEVISION CEILING RECEPTACLE
			C = CAMERA (CCTV SYSTEM)
			M = MONITOR (CATV SYSTEM)
			AV= AUDIO VISUAL (CONFERENCE ROOM CONNECTION RECEPTABLES)
			POINT OF CONNECTION SYMBOL
			REPRESENTS EXISTING CONDITION


ELECTRICAL HARDWARE	
CONDUIT & RACEWAYS SHALL BE CONCEALED AND APPROVED FOR USE AND LOCATION.	
DRY LOCATIONS	- GRC, IMC, EMT.
UNDERGROUND	- GRC, PVC.
FLEXIBLE CONDUIT	- ALLOWED ONLY FOR CONNECTION OF EQUIPMENT AND LIMITED TO LENGTHS OF SIX FEET. GALVANIZED, LIQUID TIGHT, IMC OR AC ALLOWED WHEN PROTECTED. PROVIDE SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN CONDUIT.
NM-B CABLE	- ALLOWED WHEN CONCEALED IN WALLS OR ABOVE CEILINGS.
JUNCTION AND PULL BOXES:	
DRY LOCATIONS	- STEEL WITH COVERS.
WET LOCATIONS	- CAST ALUMINUM.
SIZE PER NEC.	
COUPLINGS AND CONNECTORS:	
GRC	- THREADED
IMC	- THREADED
EMT	- DRY-COMPRESSION OR SET SCREW, BOTH OF STEEL, WET-RAIN TIGHT
PVC	- CEMENT JOINT TYPE
INDENTER TYPE CONNECTORS	PROHIBITED.
CABELING DEVICES AND PLATES:	
DUPLEX OUTLETS	- HUBBELL #CR20 SERIES, 20 AMP (OR APPROVED EQUAL)
GFCI OUTLETS	- HUBBELL #GF20 SERIES, 20 AMP (OR APPROVED EQUAL)
DEVICE COLOR	- COORDINATE COLOR W/ OWNER OR ARCHITECT
PLATES	- NYLON. COORDINATE COLOR W/ OWNER OR ARCHITECT
ANCHORS:	
HOLLOW MASONRY	- TOGGLE BOLT.
SOLID MASONRY	- EXPANSION BOLT.
STEEL	- METAL MACHINE SCREWS, BOLTS.
WOOD	- WOOD SCREWS.

BASIC ELECTRICAL REQUIREMENTS	
FURNISH ALL LABOR AND MATERIALS AND PERFORM ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF COMPLETE AND OPERATING ELECTRICAL SYSTEMS SUBJECT TO THE CONDITIONS OF THE CONTRACT. PROVIDE SATISFACTORY OPERATION OF ALL EQUIPMENT AND CONTROLS TO THE ARCHITECT/ENGINEER UPON REQUEST.	
ALL MATERIALS SHALL BE NEW. SUBSTITUTIONS SHALL BE APPROVED BY OWNER AND/OR ENGINEER.	
VISIT THE PREMISES BEFORE SUBMITTING BID AS NO CHANGE ORDERS WILL BE ALLOWED FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.	
COORDINATE AND ORDER THE PROGRESS OF WORK TO CONFORM TO THE PROJECT SCHEDULE AND THE PROGRESS OF THE WORK OF THE OTHER TRADES.	
ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND BECAUSE OF THE SMALL SCALE, IT IS NOT POSSIBLE TO INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. VERIFY ALL SPACE REQUIREMENTS, COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.	
PERFORM WORK IN ACCORDANCE WITH GOOD COMMERCIAL PRACTICE. THE GOOD APPEARANCE OF THE FINISHED WORK SHALL BE OF EQUAL IMPORTANCE WITH ITS ELECTRICAL EFFICIENCY AND INTENT. THE OWNER MAY REJECT WORK IF WORKMANSHIP AND APPEARANCE ARE NOT SATISFACTORY.	
INSTALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.	
COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AND ORDINANCES. COMPLY WITH REQUIREMENTS OF THE UTILITY COMPANIES. IN THE CASE OF DIFFERENCES BETWEEN THESE REQUIREMENTS AND ORDINANCES, THE MOST STRINGENT SHALL GOVERN. CALL FOR INSPECTIONS REQUIRED BY LOCAL BUILDING INSPECTION AUTHORITY.	
PLANS AND SPECIFICATIONS GO HAND IN HAND. WHAT IS REQUIRED IN ONE IS REQUIRED IN BOTH. WHERE CONFLICTS BETWEEN SPECIFICATIONS AND PLANS EXIST, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.	
ELECTRICAL PLANS SUPERCODE ARCHITECTURAL PLANS. BACKGROUND FLOOR PLANS USED FOR ELECTRICAL DRAWINGS MAY SHOW DIFFERENT THAN THE FINAL ARCHITECTURAL LAYOUT. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL DIMENSIONS AND LAYOUT PLACEMENTS FOR SPACE CONDITIONS.	
ELECTRICAL DETAILS MAY OR MAY NOT BE DIRECTLY REFERENCED. ALL DETAILS SHOWN ARE TO BE USED FOR BASIS OF INSTALLATION IN ALL CASES. IN COORDINATED EFFORT WITH MANUFACTURERS INSTALLATION RECOMMENDATIONS.	
ELECTRICAL SHEETS ARE NOT INTENDED TO SPECIFICALLY BE TRADE SPECIFIC TO ELECTRICAL INSTALLATION WORK. ALL MECHANICAL AND ELECTRICAL TRADES ARE RESPONSIBLE FOR FAMILIARIZING THEMSELVES AND INCLUDING A COMPLETE PACKAGE WITHIN THEIR OFFER FOR A COMPLETE SYSTEM.	
AT COMPLETION OF WORK, DELIVER COMPLETED PROJECT RECORD DOCUMENTS MARKED WITH FIELD CHANGES TO OWNER.	
PROVIDE A WRITTEN WARRANTY TO THE OWNER COVERING THE ENTIRE ELECTRICAL WORK TO BE FREE FROM DEFECTIVE MATERIALS, EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER DATE OF ACCEPTANCE.	
CLEAN EXPOSED SURFACES OF LIGHT FIXTURES, SWITCHGEAR, AND OTHER EXPOSED ITEMS OF GREASE, DIRT OR OTHER FOREIGN MATERIAL. REMOVE RUBBISH AND DEBRIS RESULTING FROM THE OPERATIONS AND LEAVE EQUIPMENT SPACES CLEAN AND READY FOR USE.	
MAINTAIN ALL CEILING, FLOOR AND WALL FIRE AND SMOKE PROTECTION RATINGS. SEAL ALL CONDUIT AND ENCLOSURE PENETRATIONS TO COMPLY WITH UL ASSEMBLY AND BUILDING CODE REQUIREMENTS. ALL SEALANTS AND CONSTRUCTIONS SHALL BE APPROVED BY OWNER PRIOR TO APPLICATION. ALL OPENINGS SHALL BE SEALED DAILY.	
CONTRACT DRAWINGS FOR ELECTRICAL WORK ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, CONDUITS, AND APPROXIMATE SIZES AND LOCATIONS OF EQUIPMENT AND OUTLETS. MECHANICAL/ELECTRICAL TRADES SHALL FOLLOW THESE DRAWINGS IN LAYING OUT THEIR WORK, CONSULT GENERAL CONSTRUCTION DRAWINGS TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THEIR WORK, AND SHALL VERIFY SPACES IN WHICH THEIR WORK WILL BE INSTALLED. COORDINATE WORK WITH OTHER TRADES AND AS PROJECT CONDITIONS REASONABLY REQUIRE WITHOUT EXTRA COSTS TO OWNER.	
ELECTRICAL SPECIFIC: RACEWAYS SHALL BE LEFT WITH 30% FREE SPACE FOR FUTURE NEEDS.	
SHARING OF NEUTRALS BETWEEN PHASES SHALL NOT BE ALLOWED.	
SEPARATE GROUNDING CONDUCTORS SHALL BE PROVIDED IN ALL RACEWAYS.	
CONDUCTORS SHALL BE COPPER. COLOR CODING SHALL BE NEC APPROVED AND AT MINIMUMS SHALL BE AS FOLLOWS: 120/208 VOLT-BLACK, RED, BLUE FOR PHASE CONDUCTORS, WHITE FOR NEUTRAL CONDUCTORS. 277/480 VOLT-BROWN, ORANGE, YELLOW FOR PHASE CONDUCTORS. GRAY FOR NEUTRAL CONDUCTORS. GROUNDING CONDUCTORS SHALL BE GREEN.	
ELECTRICAL SYSTEMS SHALL COMPLY WITH 2017 NATIONAL ELECTRICAL CODE AND BE INSTALLED BY LICENSED CONTRACTORS. LIGHTING SHALL COMPLY WITH THE 2018 IECC.	
UTILITIES: LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE EXACT LOCATIONS IN THE FIELD (NOT ALL UTILITIES ARE SHOWN).	
REGULATORY AND CODE REQUIREMENTS: APPLY FOR AND PAY FOR ALL PERMITS, FEES, LICENSES AND INSPECTIONS. ALL WORK IS SUBJECT TO APPROVAL BY THE CODE OFFICIAL AND ENGINEER. ALL CORRECTIONS SHALL BE MADE WITHOUT EXTRA COSTS TO OWNER.	

GENERAL CONSTRUCTION NOTES	
ALL WORK PERFORMED IN CONJUNCTION WITH THESE DRAWINGS SHALL MEET ALL CURRENT APPLICABLE BUILDING AND ENERGY CODES.	
ALL WORK PERFORMED IN CONJUNCTION WITH THESE DRAWINGS IS SUBJECT TO APPROVAL BY THE AUTHORITY HAVING JURISDICTION (CODE OFFICIAL).	
ALL ROOF PENETRATIONS SHALL BE PATCHED AND SEALED, WITH WARRANTY FROM BUILDING ROOFING CONTRACTOR.	
ALL NEW AND ALTERED LIGHTING SHALL BE SECURELY FASTENED TO GRID AND SHALL BE SEISMICALLY SUPPORTED AS PER APPLICABLE BUILDING CODES.	
THIS SET OF DOCUMENTS IS INTENDED FOR AHJ REVIEW AND SHALL BE CONSIDERED AS CONSTRUCTION DOCUMENTS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL CONDITIONS, EXISTING AND/OR NEW, OF THE SITE AS WELL AS LOCATIONS, QUANTITIES, TYPE AND STYLE OF ALL PRODUCTS PROVIDED, WITH OWNER, PRIOR TO ORDERING OR INSTALLING.	

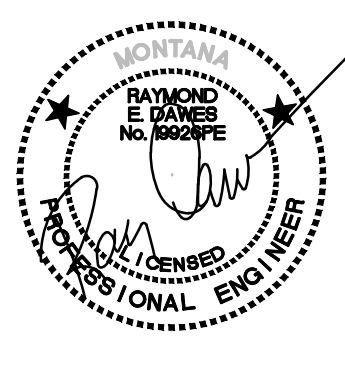
MOUNTING HEIGHTS	
DESCRIPTION	HEIGHT UNLESS OTHERWISE NOTED
THERMOSTAT, CONTROLLER	48"
WALL SWITCH/ OCCUPANCY SENSOR	48"
CONVENIENCE OUTLET	18"
WALL SWITCHES	48"
TELEPHONE/DATA/TV OUTLETS	18"
FIRE ALARM MANUAL STATION	42"
FIRE ALARM HORNS & STROBES	80"-96" AFF TO CENTER OF STROBE
EXIT SIGN	CENTER, 4" ABOVE DOOR
MANUAL MOTOR STARTER SWITCH	42"
PANELBOARDS, CABINETS	72"
MOUNTING HEIGHTS TO TOP OF BOX AND ABOVE FINISHED FLOOR GRADE UNLESS NOTED OTHERWISE. MATCH EXISTING MOUNTING HEIGHTS WHICH COMPLY WITH ADA REQUIREMENT.	

ELECTRICAL ABBREVIATIONS			
AC	ALTERNATING CURRENT OR ARMORED CABLE	KV	KILOVOLT
ACC	ACCESSIBLE	KVA	KILOVOLT AMPERE
AFC	ABOVE FINISHED COUNTER, AUTOMATIC FREQUENCY CONTROL, OR AVAILABLE FAULT CURRENT	KW	KILOWATT
		KWH	KILOWATT HOUR
AFF	ABOVE FINISHED FLOOR	LED	LIGHT EMITTING DIODE
AFG	ABOVE FINISHED GRADE	MAX	MAXIMUM
AHJ	AUTHORITY HAVING JURISDICTION	MCA	MINIMUM CIRCUIT AMPS
AIC	AMPERE INTERRUPTING CAPACITY	MCB	MAIN CIRCUIT BREAKER
AMP	AMPERE	MCC	MOTOR CONTROL CENTER
ATS	AUTOMATIC TRANSFER SWITCH	MDP	MAIN DISTRIBUTION PANEL
AUTO	AUTOMATIC	MECH	MECHANICAL
AV	AUDIO VISUAL	MH	MANHOLE
		MIN	MINIMUM
BAS	BUILDING AUTOMATION SYSTEM	MOC	MAXIMUM OVERCURRENT PROTECTION
BLDG	BELOW FINISH FLOOR	MTS	MANUAL TRANSFER SWITCH
BRKR	BREAKER	MVA	MEGAVOLT-AMPERE
BYP	BY PASS	MW	MEGAWATT
		NA	NOT APPLICABLE
C	CONDUIT	NC	NORMALLY CLOSED
CD	CONSTRUCTION DOCUMENTS	NEC	NATIONAL ELECTRICAL CODE
CF	CONTRACTOR FURNISHED	NEMA	NATIONAL ELECTRICAL
CP/CI	CONTRACTOR PROVIDED/CONTRACTOR INSTALLED		MANUFACTURERS ASSOCIATION
CP/OI	CONTRACTOR PROVIDED/OWNER INSTALLED	NEUT OR N	NEUTRAL
		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CKT	CIRCUIT	NIC	NOT IN CONTRACT
CMU	CONCRETE MASONRY UNIT	NO	NORMALLY OPEN
CRI	COLOR RENDERING INDEX	NTS	NOT TO SCALE
CT	CURRENT TRANSFORMER		
CU	COPPER	OC	ON CENTER
CU FT	CUBIC FEET	OD	OUTSIDE DIAMETER
		OP	OWNER PROVIDED
DC	DIRECT CURRENT	OP/CI	OWNER PROVIDED/CONTRACTOR INSTALLED
DEMO	DEMOLITION	OP/OI	OWNER PROVIDED/OWNER INSTALLED
DPDT	DOUBLE POLE, DOUBLE THROW	OS	OCCUPANCY SENSOR
DPST	DOUBLE POLE, SINGLE THROW		
DWG	DRAWING	RCP	REFLECTED CEILING PLAN
		REC	RECESSED
EC	ELECTRICAL CONTRACTOR	RECP	RECEPTACLE
ELEC	ELECTRIC OR ELECTRICAL	RM	ROOM
ELEV	ELEVATOR		
EMER	EMERGENCY	SD	SMOKE DETECTOR
EMT	ELECTRICAL METALLIC TUBING	SF	SQUARE FOOT (FEET)
EWC	ELECTRIC WATER COOLER	SPEC	SPECIFICATION
EWI	ELECTRIC WATER HEATER	SPST	SINGLE POLE, SINGLE THROW
EXIST	EXISTING	SPOT	SINGLE POLE, DOUBLE THROW
		SWBD	SWITCHBOARD
FA	FIRE ALARM	SWGR	SWITCHGEAR
FACP	FIRE ALARM CONTROL PANEL		
FC	FOOTCANDLE	TC	TIME CLOCK
FLA	FULL LOAD AMPS	TP	TWISTED PAIR
FLEX	FLEXIBLE METALLIC CONDUIT	TPS	TWISTED PAIR SHIELDED
FP	FIRE PROTECTION	TTB	TELEPHONE TERMINAL BOARD
	FEET OR FOOT	TV	TELEVISION
		TYP	TYPICAL
G OR GND	GROUND		
GEN	GENERATOR	UL	UNDERWRITERS LABORATORY
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UN	UNLESS OTHERWISE NOTED
		UPS	UNINTERRUPTIBLE POWER SUPPLY
HOA	HAND-OFF-AUTOMATIC	V OR VOLT	VOLTAGE
HP	HORSEPOWER	VA	VOLT AMPERE
HZ	HERTZ	VFD	VARIABLE FREQUENCY DRIVE
		W	WATT
IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA	WH	WATER HEATER
IR	INFRARED	WP	WEATHERPROOF
J	JUNCTION BOX	XFMR	TRANSFORMER



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FOURFRONT
DESIGN INC.



Revisions:

#	Description	Date
1	AHJ Review	04-26-22

RESUBMITTAL

04/26/2022

BUILDING DIVISION
CITY OF HELENA

PERMIT DOCUMENTS

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AT ALL TIMES

THE LUX NIGHTCLUB

801 NORTH FEE STREET
HELENA, MONTANA

Project Number:

22.2620.M01

Issued for Permit:

4/8/2022

ELECTRICAL LEGEND
AND ABBREVIATIONS

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Revisions:		
#	Description	Date
1	AHJ Review	04-26-22

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04/26/2022
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Project Number: 22.2620.M01
Issued for Permit: 4/8/2022

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0 AMP
R AND
E RUN
IRETY.
E FOR
EUSE.

REMOVE CONNECTED WIRING. MAINTAIN
EXISTING BREAKER AS SPARE

RELOCATE WALK IN COOLER BREAKER TO
SPACE 34 AND 36 ON PANEL.PREPARE
SPACE FOR REUSE.

REMOVE CONNECTED HOME RUN WIRING
IN IT'S ENTIRETY AND MAINTAIN EXISTING
BREAKER AS SPARE

PANEL LOCATION: MAIN FLOOR ELEC ROOM				L-L VOLT: 208		PHASE: 1		MAIN: LUG --		BREAKER 100A				
MFR/MODEL: SQUARE D - NQ				L-N VOLT: 120		WIRES: 3		WIRE SIZE: EXISTING		FED FROM: PANEL 'A'				
AIC: 10,000				RATED AMP: 120		NEUTRAL 100%		COND. SIZE: EXISTING		MOUNT: RECESSED				
DESCRIPTION	BREAKER		L-LOAD	R-LOAD	O-LOAD	T/S/O/M A/E/H	PHASE	T/S/O/M A/E/H	O-LOAD	R-LOAD	L-LOAD	BREAKER		DESCRIPTION
	TYPE	POLE										AMP	AMP	
SPARE	1	20					1 A 2					20	1	SPARE
SPARE	1	20					3 B 4					20	1	SPARE
UNLABLED	1	30			804		5 A 6		804			30	1	UNLABLED
UNLABLED	1	30			804		7 B 8		804			30	1	UNLABLED
UNLABLED					1005		9 A 10		804			20	1	UNLABLED
UNLABLED	2	50			1005		11 B 12		803					
UNLABLED	1	30			804		13 A 14		803			30	2	UNLABLED
UNLABLED	1	30			804		15 B 16		1005					
UNLABLED	1	30			804		17 A 18		1005		50	2		UNLABLED
SPACE							19 B 20							SPACE
SPACE							21 A 22							SPACE
SUMMARY CONNECTED LOADS			0	0		M 0 A 0 S 0 E 0 H 0 T 6030 O	(VOLT-AMPERES)	M 0 A 0 S 0 E 0 H 0 T 0 5628		0	0	SUMMARY CONNECTED LOADS		
DESCRIPTION	CONN. KVA	D.F	DEM. KVA	AMPERAGE FED TO PANEL	100 AMP	117 KVA	LEGEND/KEY							
LIGHTING	0.0	1.25	0.0	TOTAL CONNECTED LOAD	56.0 AMP	117 KVA	T=TRANSFORMER							
RECEPTACLES (FIRST 10KW)	0.0	1.0	0.0	TOTAL DEMAND LOAD	56.0 AMP	117 KVA	S=SUBFEED							
RECEPTACLES (REMAINDER)	0.0	0.5	0.0	DESIGN (MAX)	100 AMP	24.0 KVA	O=OTHER							
MOTORS	0.0	1.0	0.0	SPARE LOAD	44 AMP	12.3 KVA	M=MOTOR							
LARGEST MOTOR	0.0	1.25	0.0				A=APPLIANCE							
APPLIANCES	0.0	1.0	0.0	CONNECTED LOAD BALANCE SUMMARY	55.3 AMP	6.633 KVA	E=EQUIPMENT							
SUBFEED	0.0	0.8	0.0	PHASE A			H=HEATING							
EQUIPMENT	0.0	1.0	0.0	PHASE B	41.9 AMP	5.025 KVA	R=RECEPTACLES							
HEATING	0.0	1.0	0.0				L=LIGHTING							
TRANSFORMER	0.0	1.0	0.0				CONN=CONNECTED							
OTHER	11.7	1.0	11.7	A TO B	24 %		DEM=DEMAND							
TOTAL KVA	117 KVA		117 KVA				SPR=SPARE							
TOTAL AMP	56.0 AMP		56.0 AMP				SPC=SPACE							
DESIGN (MAX)			100 AMP				D.F = DEMAND FACTOR							
SPARE			44.0 AMP				GFCI=GROUND FAULT CIRCUIT							
							ST=SHUNT TRIP							

RESUBMITTAL
04/26/2022
BUILDING DIVISION
CITY OF HELENA

CONNECT NEW HOME RUN
WIRING FOR GAME ROOM
RECEPTACLES TO EXISTING
SPARE BREAKERS.

THE LUX NIGHTCLUB
801 NORTH FEE STREET
HELENA, MONTANA

REMODELED ELECTRICAL PANEL SCHEDULES

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INSTALL NEW 200 AMP
BREAKER FOR SUB-FEED TO
PANEL "SP2"

REINSTALL 20 AMP 2 POLE
BREAKER REMOVED FROM
SPACES 27 & 29.
RECONNECT HOME RUN
WIRING SERVING WALK-IN
COOLER IN NEW PANEL
LOCATION SHOWN

CONNECT NEW HOME RUN WIRING FOR GAME ROOM RECEPTACLES TO EXISTING SPARE BREAKERS

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THIS SET OF APPROVED
PLANS TO BE ON JOB SITE
AT ALL TIMES

#	Description	Date
1	AHJ Review	04-26-22

04/26/2022
BUILDING DIVISION
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<p><u>LUMINAIRE NOTES:</u></p> <ol style="list-style-type: none"> 1. COLOR/FINISH TO BE DETERMINED BY ARCHITECT. 2. PROVIDE ALL NECESSARY HARDWARE OR KITS FOR MOUNTING LUMINAIRE AS NOTED BY LOCATION AND TYPE. 3. CONNECT TO NEAREST UNSWITCHED CIRCUIT. 4. REFER TO PLANS FOR DIRECTIONAL ARROWS, SINGLE OR DOUBLE SIDED, AND MOUNTING TYPE WILL BE WALL MOUNTED UNLESS OTHERWISE NOTED ON PLANS. 5. PROVIDE LUMINAIRE WITH 4000K 10W LED BULB. 6. PROVIDE TRACK WITH CURRENT LIMITING DEVICE. FOR 4' LENGTH 120 WATT CURRENT LIMITER SHALL BE PROVIDED. 	<p><u>CONTROL NOTES:</u></p> <ol style="list-style-type: none"> A. ON BOARD OCCUPANCY SENSING. B. ON BOARD PHOTO CONTROL. C. 0-10 V DIMMING. D. TRIAC DIMMING. E. EMERGENCY BACKUP BATTERY ON FIXTURES WITH ADDITIONAL E TAG
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LIGHTING CONTROL SCHEDULE																					
AON = AUTO ON		AOF = AUTO OFF		MON = MANUAL ON		MOF = MANUAL OFF		MOWO = MANUAL OFF WHILE OCCUPIED		TDO = TIME DELAY OFF		DLD = DAY LIGHT DETECTION		3W = THREE WAY		4W = 4 WAY		E = ENABLED		D = DISABLED	
SWITCH SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	LIGHTING ASP RATING	FAN ASP RATING	LIGHTING FAN ASP RATING	FAN ASP RATING	AOM	AOF	MON	MOF	MOWO	TDO	DLD	3W	4W	6-10V DM	TRACOM	NOTES	HYPERS	
\$	WALL SWITCH	HUBBELL	CS120	20	20	20	-	-	E	E	-	-	-	-	-	-	-	-	-	1	SPE
\$3	THREE WAY SWITCH	HUBBELL	CS320	20	20	20	-	-	E	E	-	-	-	-	-	E	-	-	-	1	SPE
\$5	WALL OCCUPANCY SENSOR SWITCH	LUTRON	MS-OPS6M2U-DV	6	3	3	D	E	E	E	D	30m	D	-	-	-	-	-	-	1	SPE
OS	CEILING OCCUPANCY SENSOR SWITCH	HUBBELL	OMNI-DT-500	.033	.033	.033	E	E	-	-	-	-	30m	-	-	-	-	-	-	2	SPE
NOTES:																					
1. COORDINATE COLOR WITH OWNER/ARCHITECT.																					
2. SENSOR IS RATED FOR 24VDC INSTEAD OF LINE VOLTAGE. CONTRACTOR TO PROVIDE NECESSARY RELAYS AND WIRING COMPONENTS FOR A COMPLETE INSTALLATION.																					
PROVIDE SWITCHES WITH LOW VOLTAGE POWER PACKS AS REQUIRED.																					

SCHEDULE OF DISCONNECTS																	
EQUIPMENT	CONNECTED LOAD						DISCONNECT			FUSE			FEEDER				NOTES
	HP	W	FLA	MCA	PH	VOLTS	TYPE	MFR	CATALOG NO.	TYPE	SIZE	POLES	SIZE	TYPE	GRND		
CU-1	-	-	-	29.6	1	208	GENERAL DUTY FUSED	SCHNEIDER ELECTRIC	D221NRB	CARTRIDGE CLASS R	50A	2	(3) #8	THHN	#8	-	
CU-2	-	-	-	29.6	1	208	GENERAL DUTY FUSED	SCHNEIDER ELECTRIC	D221NRB	CARTRIDGE CLASS R	50A	2	(3) #8	THHN	#8	-	
F-1	1	-	-	13.3	1	120	FUSESTAT	COOPER	BP1SSU	EDISON BASE CLASS T	15A	1	(2) #12	THHN	#12	-	
F-2	1	-	-	13.3	1	120	FUSESTAT	COOPER	BP1SSU	EDISON BASE CLASS T	15A	1	(2) #12	THHN	#12	-	
WH-1	-	4500	-	-	1	208	GENERAL DUTY FUSED	SCHNEIDER ELECTRIC	D221NRB	CARTRIDGE CLASS R	30A	2	(3) #10	THHN	#10	-	
WH-2	-	4500	-	-	1	208	GENERAL DUTY FUSED	SCHNEIDER ELECTRIC	D221NRB	CARTRIDGE CLASS R	30A	2	(3) #10	THHN	#10	-	
UH-1	1/4	-	3.8	-	1	120	FUSESTAT	COOPER	BP1SSU	EDISON BASE CLASS T	5A	1	(2) #12	THHN	#12	-	
EF-1	.14	-	2.45	-	1	120	FUSESTAT	COOPER	BP1SSU	EDISON BASE CLASS T	5A	1	(2) #12	THHN	#12	-	
EF-2	.14	-	2.45	-	1	120	FUSESTAT	COOPER	BP1SSU	EDISON BASE CLASS T	5A	1	(2) #12	THHN	#12	-	
MUA-1	1/3	-	7.2	-	1	120	FUSESTAT	COOPER	BP1SSU	EDISON BASE CLASS T	10A	1	(2) #12	THHN	#12	-	



PERMIT DOCUMENTS

801 NORTH FEE STREET
HELENA, MONTANA

Project Number: 22.2620.M01
Issued for Permit: 4/8/2022

ONE-LINE DETAIL

E 0.3

RESUBMITTAL

04/26/2022

**BUILDING DIVISION
CITY OF HELENA**

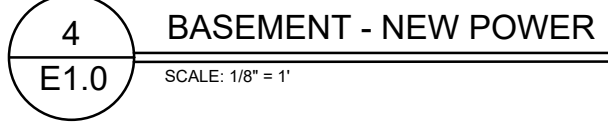
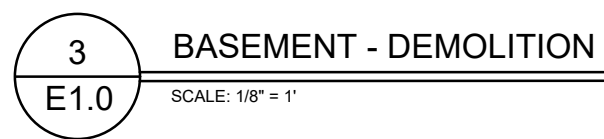
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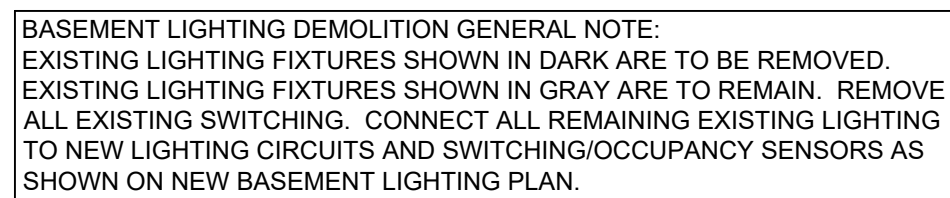
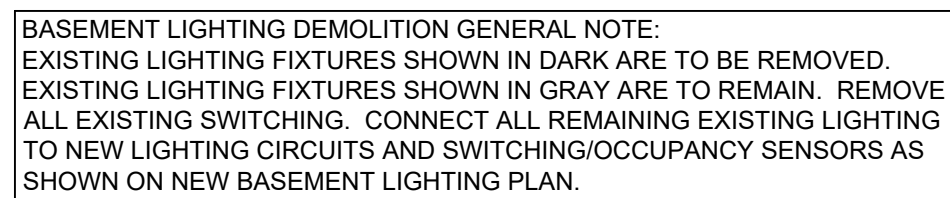
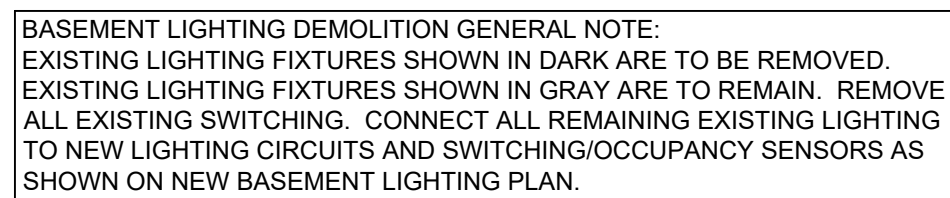
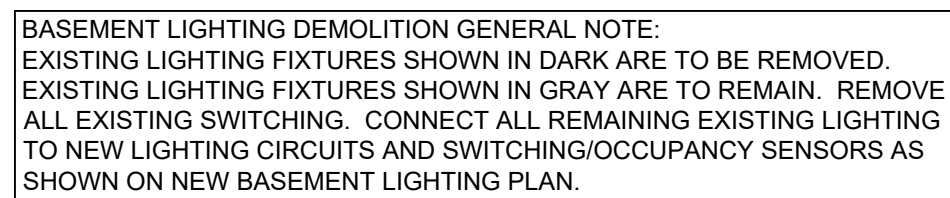


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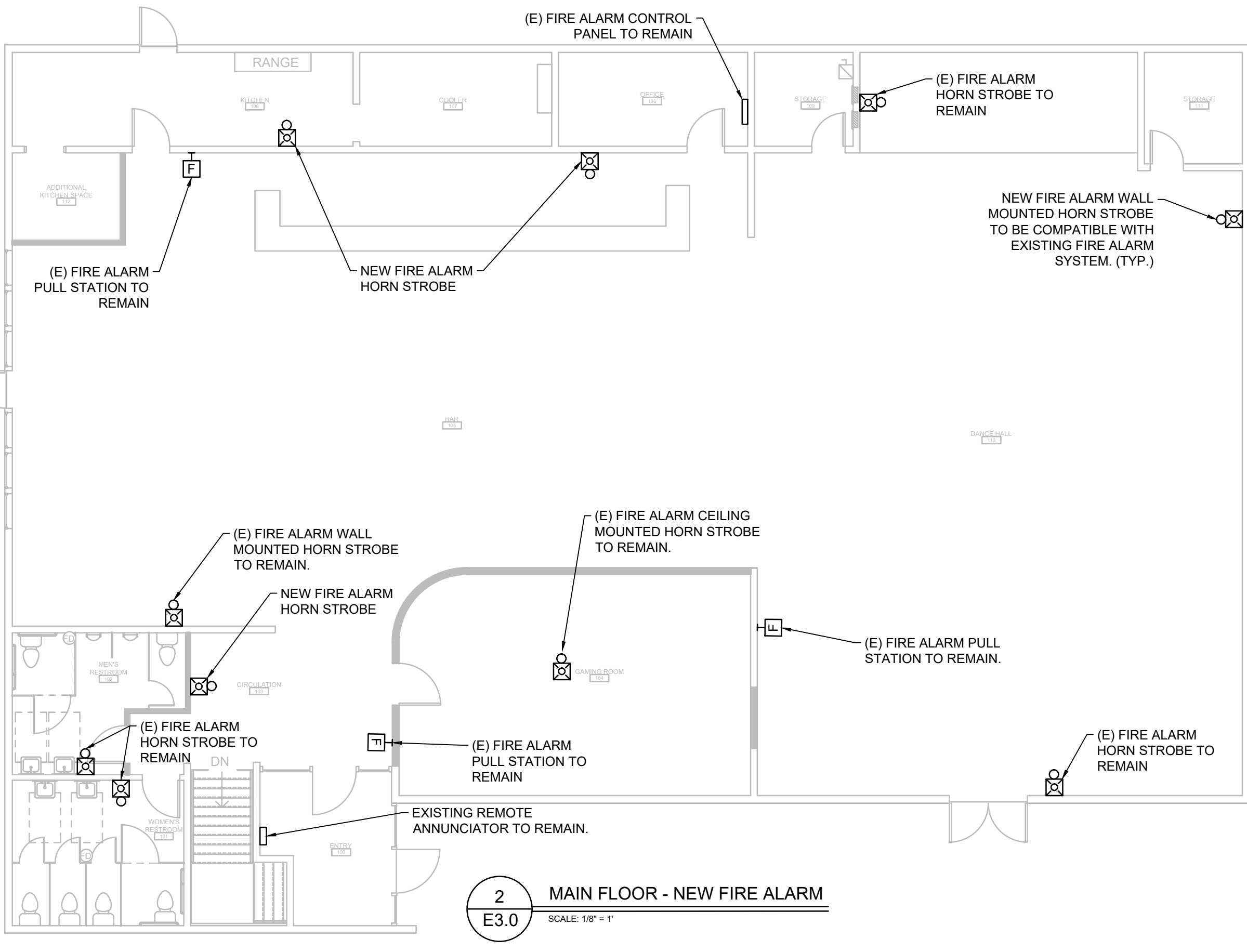
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Verify emergency lighting in stairwell along path of egress.

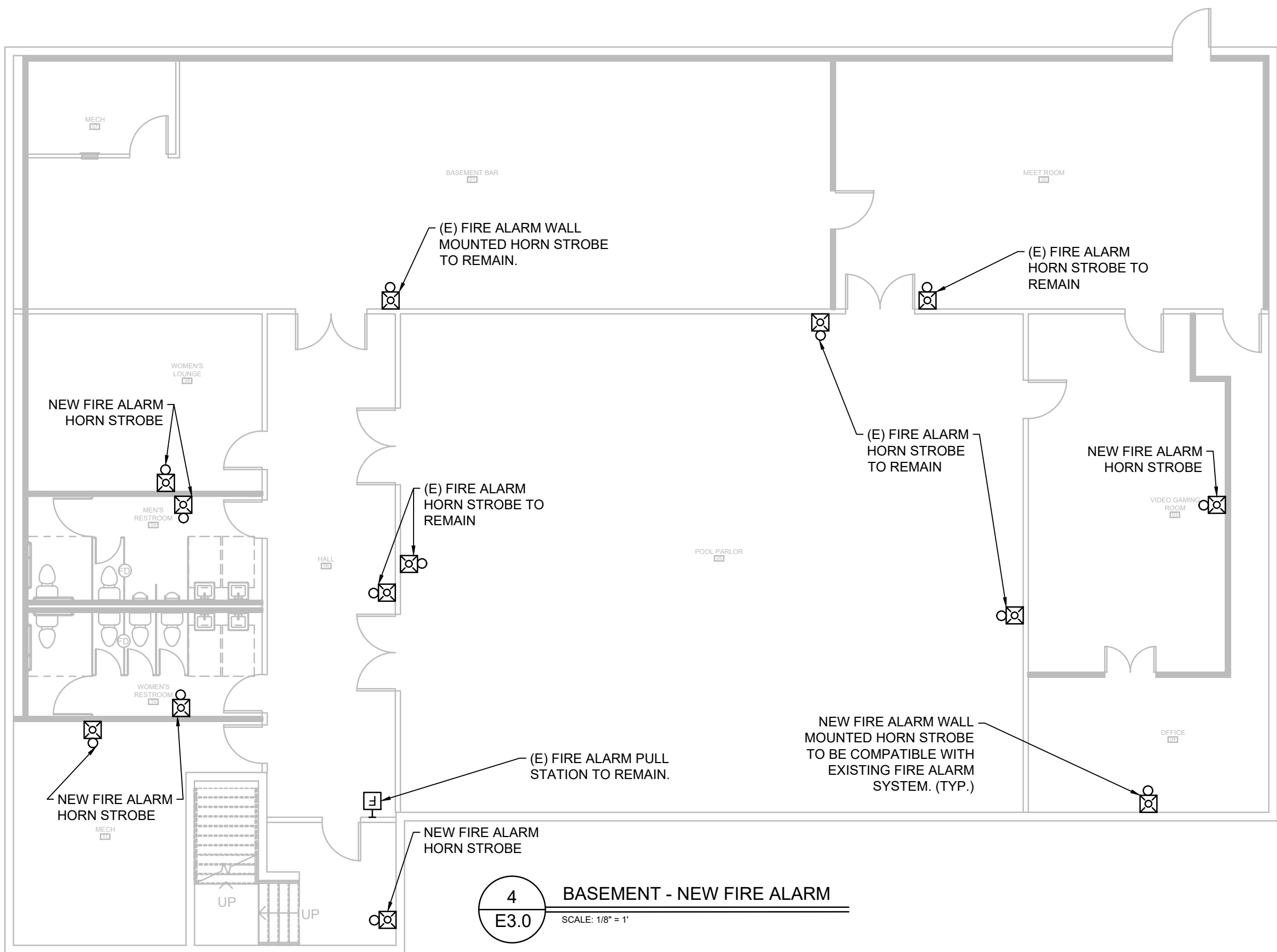
FIRE ALARM SCHEMATIC DRAWING SHOWS THE MINIMUM REQUIREMENTS FOR A NEW FIRE ALARM SYSTEM MEETING IBC VERSION 2018 BASED ON A GROUP B OCCUPANCY THAT IS FULLY SPRINKLED. IT WILL BE THE REQUIREMENT OF THE CONTRACTOR TO PROVIDE A DEFERRED SUBMITTAL FOR A COMPLETE CODE COMPLIANT PLAN AND INSTALLATION SUBJECT TO INSPECTION AND APPROVAL BY AHJ.



1. FIRE: All work is subject to field verification and additional items may need to be added, corrected, moved or deleted. Please call the Building Division to schedule all final inspections.
2. FIRE: Separate permits from the City of Helena Building Division for the fire alarm and fire sprinkler systems. Prior to any work, the permit, stamped set of plans and third party review comments must be on site. If there are any changes to either system the design professional must provide an email to the Fire Marshal for documentation.
3. FIRE: Every area containing fire protection, fire detection, utilities, or other equipment used during emergency operations shall be clearly identified. Signage shall be of a durable material, permanently installed, and have a red background with white 1 ½" lettering.
4. FIRE: Fire extinguishers placed per 2012 International Fire Code (IFC) section 906 and National Fire Protection Association (NFPA) 10.
5. FIRE: Applicable sections of 2012 International Fire Code (IFC), Chapter 33 "Fire Safety during Construction and Demolition"
6. FIRE: The site must remain accessible to all emergency services during construction. Please post after hours contact numbers at the job trailer in case of emergency.
7. FIRE: For any welding or hot work ensure all applicable sections of 2012 IFC, Chapter 35 "Welding and other Hot work" is in place.
8. FIRE: The address posted per 2012 IFC, section 505. The numbers must contrast with the background and must be clearly visible from the street.
9. FIRE: For Fire Department Access, this project must meet all requirements in the 2012 International Fire Code (IFC), chapter 5, section 503 and associated appendices. If there are any additions, deletions, changes or conflicts, please contact the HFD Fire Marshal.
10. FIRE: A Knox box installed no higher than 5 feet from the ground at the front entrance.
11. FIRE: If more than 20 device changes, the fire sprinkler system plans must have a third party review. A licensed contractor must install the system and they must meet all applicable codes and standards including but not limited to NFPA 13 and 2012 IFC, Chapter 9.
12. FIRE: The fire alarm system must be third party reviewed. It must be installed by a licensed contractor and all applicable codes and standards including, but not limited to NFPA 72 and 2012 IFC Chapter 9 requirements in effect.
13. FIRE: The as-built for the fire alarm and fire sprinkler system must be in a documentation box at the fire alarm control panel.
14. FIRE: Using Chapter 4 in the 2012 IFC, an emergency/evacuation plan must be developed for this occupancy. This plan must include training and drills. The plan must be in place by final construction inspection for the building.
15. FIRE: The occupant load posted per 2012 IFC, section 1004.3.
16. FIRE: Although not required by code, recommend installing carbon monoxide alarms.

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