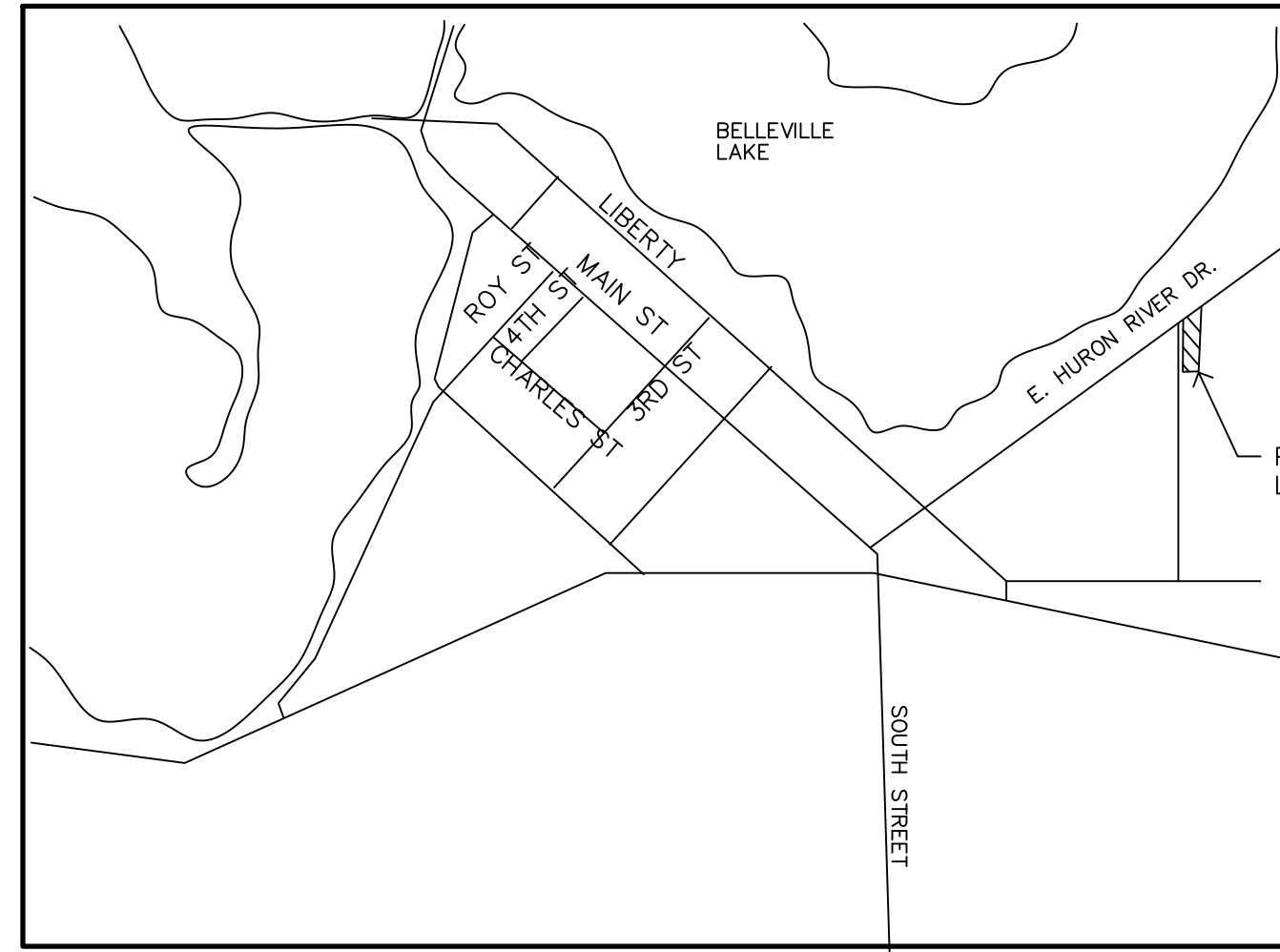


INTERIOR RENOVATIONS TO THE ANIMAL FRIENDS VETERINARY HOSPITAL 500 E HURON RIVER DRIVE, BELLEVILLE, MI 48111

ANIMAL FRIENDS VETERINARY HOSPITAL
INTERIOR RENOVATION
500 E. HURON RIVER DRIVE, BELLEVILLE, MI 48111

LOCATION MAP



PROJECT NORTH



ZONING ANALYSIS

CURRENT ZONING: B-3
ADJACENT ZONING TO THE NORTH: B-3
ADJACENT ZONING TO THE EAST: R-2
ADJACENT ZONING TO THE SOUTH: R-2
ADJACENT ZONING TO THE WEST: B-3

SITE AREA
=21,844 SF OR .501 ACRES

PROPOSED USE
SECTION 3.1.8_B_PRINCIPAL PERMITTED USES_ITEM XVIII
"OTHER USES WHICH ARE SIMILAR TO THE ABOVE USES, AS DETERMINED BY THE PLANNING COMMISSION".

SECTION 3.1.8_B_PRINCIPAL PERMITTED USES_ITEM VIII
"PROFESSIONAL AND ADMINISTRATIVE USES"
VETERINARY HOSPITAL AND DANCE SCHOOL

BECAUSE THE ORDINANCE DOES NOT ADDRESS A VETERINARY HOSPITAL OR A DANCE SCHOOL, WE ARE ASKING THE PLANNING COMMISSION TO RECOGNIZE BOTH FUNCTIONS AS SIMILAR TO A PROFESSIONAL AND ADMINISTRATIVE USE WHICH IS A PRINCIPAL PERMITTED USE IN THE B-3 DISTRICT.

PETS ARE DROPPED OFF FOR MEDICAL CARE FROM A PROFESSIONAL VETERINARIAN.

PROPOSED AREA OF BUILDING (GFA)
=5,100 SF TOTAL
=2,590 SF VETERINARY HOSPITAL
=2,510 SF DANCE SCHOOL

MAXIMUM BUILDING HEIGHT:
=30' OR THREE STORIES
HEIGHT PROVIDED
=23'-2"

REQUIRED FRONT YARD SETBACK:
40 FT
PROVIDED
5.33 FT

REQUIRED REAR YARD BUILDING SETBACK:
20 FT
PROVIDED
58.33 FT

REQUIRED SIDEYARD SETBACK:
0 FT
PROVIDED
27.66 FT

MAXIMUM LOT COVERAGE:
NO RESTRICTION
PROVIDED
23.6%

MINIMUM WIDTH
NO RESTRICTIONS

MINIMUM LOT SIZE:
NO RESTRICTIONS

PARKING CALCULATIONS PER GFA
MINIMUM PARKING REQUIRED FOR HOSPITAL
=1/ EVERY 100 SF IN WAITING AREA + 1/EXAM ROOM
=816/100 =9 SPACES
=3 EXAM ROOMS = 3 SPACES
=TOTAL 12 SPACES

MINIMUM PARKING REQUIRED FOR SCHOOL
=1/ 2 TEACHERS AND 1/ 10 STUDENTS
=3 TEACHERS = 2 SPACE
=60 STUDENTS = 6 SPACES
=TOTAL 8 SPACES

TOTAL REQUIRED SPACES
=20 SPACES

PARKING PROVIDED
=21 SPACES (INCLUDING 2 BARRIER FREE SPACES)

PARKING DIMENSIONS
= 9' X 20'

aisle DIMENSIONS
= 20'

LOADING PROVIDED: 1 SPACE AT 20' X 50'

EMPLOYEES
NUMBER OF EMPLOYEES HOSPITAL LARGEST SHIFT: 4 PEOPLE
HOURS OF OPERATION: 8 AM - 6 PM M-F

NUMBER OF EMPLOYEES SCHOOL LARGEST SHIFT: 3 PEOPLE
HOURS OF OPERATION: 4 PM - 9 PM M-F

DIRECTORY

ARCHITECT
HOPPE DESIGN
47032 McBRIDE
BELLEVILLE, MI 48111
734-218-2492

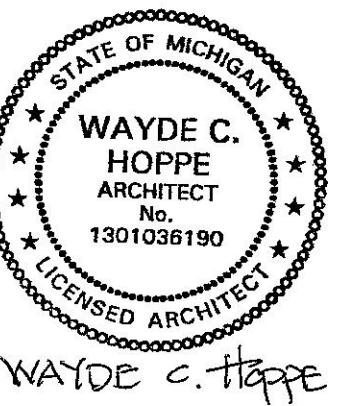
APPLICANT AND OWNER
HEATHER KRULACK
HKRULACK@GMAIL.COM
734.787.0018

DRAWING INDEX

DT	TITLE SHEET
STRUCTURAL	
S001	STRUCTURAL NOTES
S002	SPECIAL INSPECTIONS
S101	STRUCTURAL FLOOR PLAN
ARCHITECTURAL	
A001	MATERIAL SPECIFICATION
A002	CODE ANALYSIS
A101	FLOOR PLAN
A102	REFLECTED CEILING AND INTERIOR ELEVATION
A103	DEMOLITION PLAN
A501	SCHEDULES
MECHANICAL	
M101	HVAC PLANS
PLUMBING	
P101	SANITARY PLUMBING PLAN
P102	SUPPLY PLUMBING PLAN
ELECTRICAL	
E101	LIGHTING PLAN
E102	POWER PLAN

PC SUBMITTAL

PROJECT NUMBER: 2202
DATE: 3/3/22



WAYDE C. HOPPE

HOPPE DESIGN, LLC
47032 McBRIDE, BELLEVILLE, MI 48111
734-218-2492

REVISIONS

PROJECT: 2202
DATE: 7.15.22
DRAWN: JPH
CHECKED: WCH

TITLE SHEET

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DT

STATEMENT OF SPECIAL INSPECTIONS

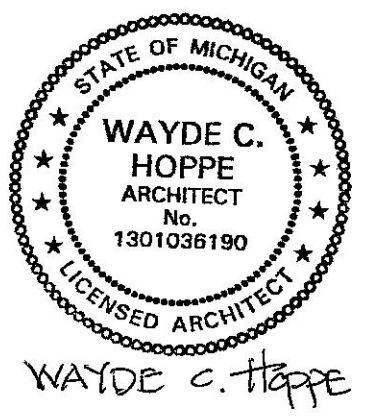
STEEL CONSTRUCTION (TABLE 1704.3)	FREQUENCY		REFERENCE CRITERIA	
	CONT-INOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	—	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360, SECTION A3.3	—
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	—	X	—	—
2. INSPECTION OF HIGH-STRENGTH BOLTING				
A. SNUG TIGHT JOINTS	—	X	—	—
B. SLIP-CRITICAL CONNECTIONS WITH MATCHMARKING, TWIST OFF BOLT OR DIRECT TENSION INDICATOR	X	X	AISC 360, SECTION M2.5	1704.3.3
C. SLIP-CRITICAL CONNECTIONS WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS	X	—	—	—
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL				
A. IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	—	X	AISC 360, SECTION M5.5	—
B. FOR OTHER STEEL IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	—	X	APPLICABLE ASTM MATERIAL STANDARDS	—
C. MANUFACTURER'S CERTIFIED MILL TEST REPORTS	—	X	—	—
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS				
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	—	X	AISC 360, SECTION A3.5 AND APPLICABLE AWS A5 DOCUMENTS	—
MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	—	X	—	—
5. INSPECTION OF WELDING				
A. STRUCTURAL STEEL AND COLD FORMED STEEL DECK	—	—	—	—
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	X	—	—	—
2) MULTIPASS FILLET WELDS	X	—	—	—
3) SINGLE-PASS FILLET WELDS < 5/16"	X	—	AWS D1.1	1704.3.1
4) PLUG AND SLOT WELDS	X	—	—	—
5) SINGLE-PASS FILLET WELDS < 5/16"	—	X	—	—
5) FLOOR AND ROOF DECK WELDS	—	X	AWS D1.3	—
B. REINFORCING STEEL:				
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706	—	X	—	—
2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT	X	—	AWS D1.4 ACI 318: 3.5.2	—

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION (TABLE 1704.4)	FREQUENCY		REFERENCE CRITERIA		
	CONT-INOUS	PERIODIC	REFERENCED STANDARD	IBC SECTION	
1. INSPECTION OF REINFORCING STEEL AND PLACEMENT	—	X	ACI 318: 3.5, 7.1-7.7	1913.4	
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5B	—	—	AWS D1.4 ACI 318: 3.5.2	—	
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED	X	—	ACI 318: 8.13, 21.2.8	1911.5, 1912.1	
4. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	—	X	ACI 318:3.8.6, 8.1.3, 21.2.8	1912.1	
5. VERIFYING USE OF REQUIRED DESIGN MIX	—	X	ACI 318: CH. 4, 5.2-5.4	1904.3, 1913.2, 1913.3	
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIFIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	—	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.1	
7. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	—	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8	
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	—	X	ACI 318: 5.11-5.13	1913.9	
9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	—	X	ACI 318: 6.1.1	—	
LEVEL 1 SPECIAL INSPECTION (TABLE 1704.5.1) INSPECTION TASK					
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
A. PROPORTIONS OF SITE-PREPARED MORTAR	—	X	—	ART. 2.6a	
B. CONSTRUCTION OF MORTAR JOINTS	—	X	—	ART. 3.3B	
C. LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES	—	X	—	ART. 3.4, 3.6A	
2. THE INSPECTION PROGRAM SHALL VERIFY:					
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	—	X	—	ART. 3.3F	
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	—	X	—	SEC. 1.2.2(E), 1.16.1	
C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT	—	X	—	SEC. 1.15 ART. 2.4, 3.4	

D. WELDING OF REINFORCING BARS	FREQUENCY		REFERENCE CRITERIA		
	CONT-INOUS	PERIODIC	REFERENCED STANDARD	IBC SECTION	
E. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEG F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEG F)	—	X	—	—	SEC. 2104.3, 2104.4
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
A. GROUT SPACE IS CLEAN	—	X	—	—	ART. 3.2D
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS	—	X	—	—	SEC. 1.13 ART. 3.4
C. PROPORTIONS OF SITE-PREPARED GROUT	—	X	—	—	ART. 2.6B
D. CONSTRUCTION OF MORTAR JOINTS	—	X	—	—	ART. 3.3B
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS	X	—	—	—	ART. 3.5
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED	—	—	—	—	SEC. 2105.2.2, 2105.3
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED	—	X	—	—	ART. 1.5
REQUIRED VERIFICATION AND INSPECTION OF SOILS (TABLE 1704.7) VERIFICATION AND INSPECTION					
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	—	X	—	—	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	—	X	—	—	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	—	X	—	—	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	—	—	—	
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	—	X	—	—	

VERIFY ALL DIMENSIONS IN FIELD

ANIMAL FRIENDS VETERINARY HOSPITAL INTERIOR RENOVATION
500 E. HURON RIVER DRIVE, BELLEVILLE, MI 48111



HOPPE DESIGN, LLC
47032 MERRIDE, BELLEVILLE, MI 48111
734-215-2492

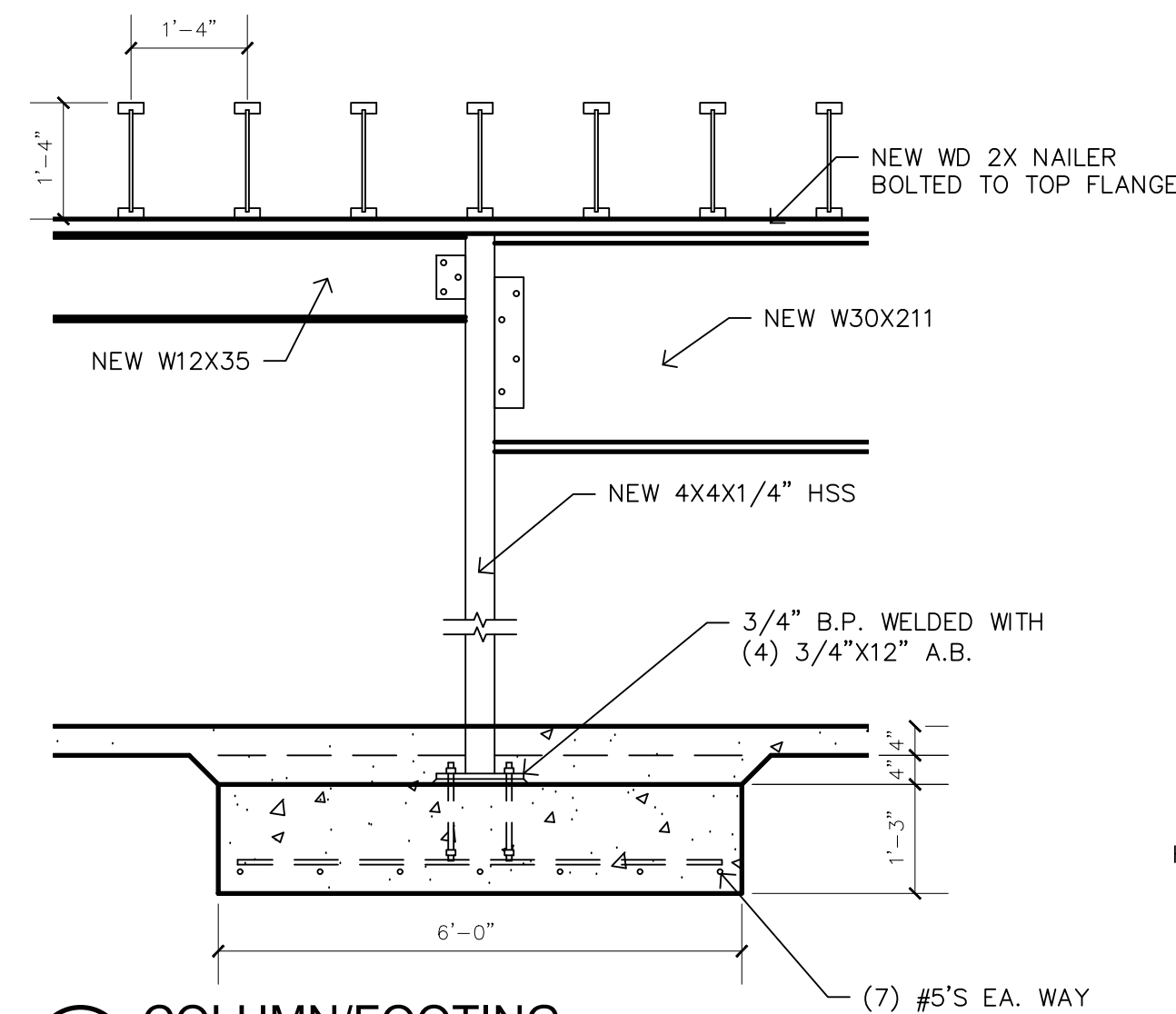
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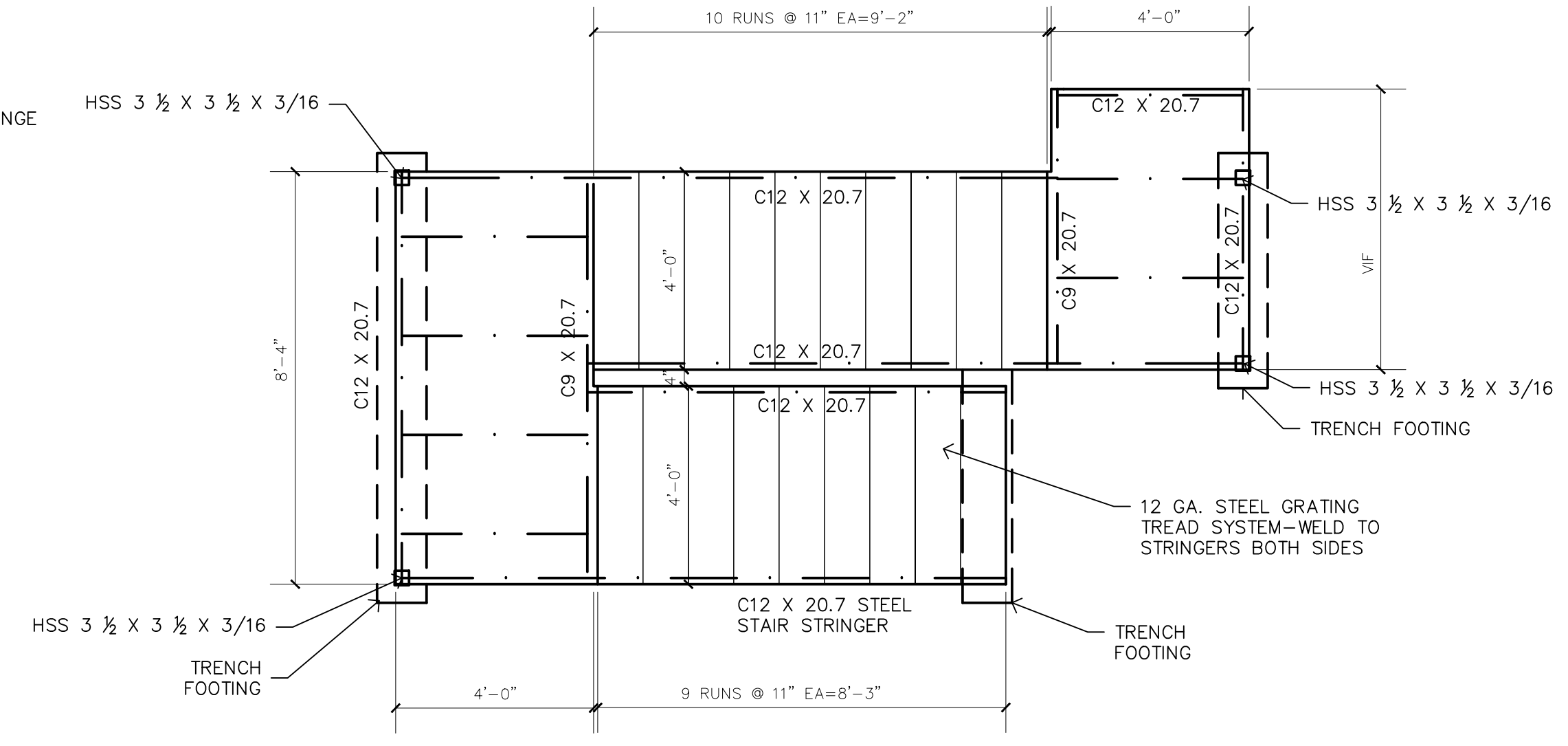
SPECIAL INSPECTIONS

S002

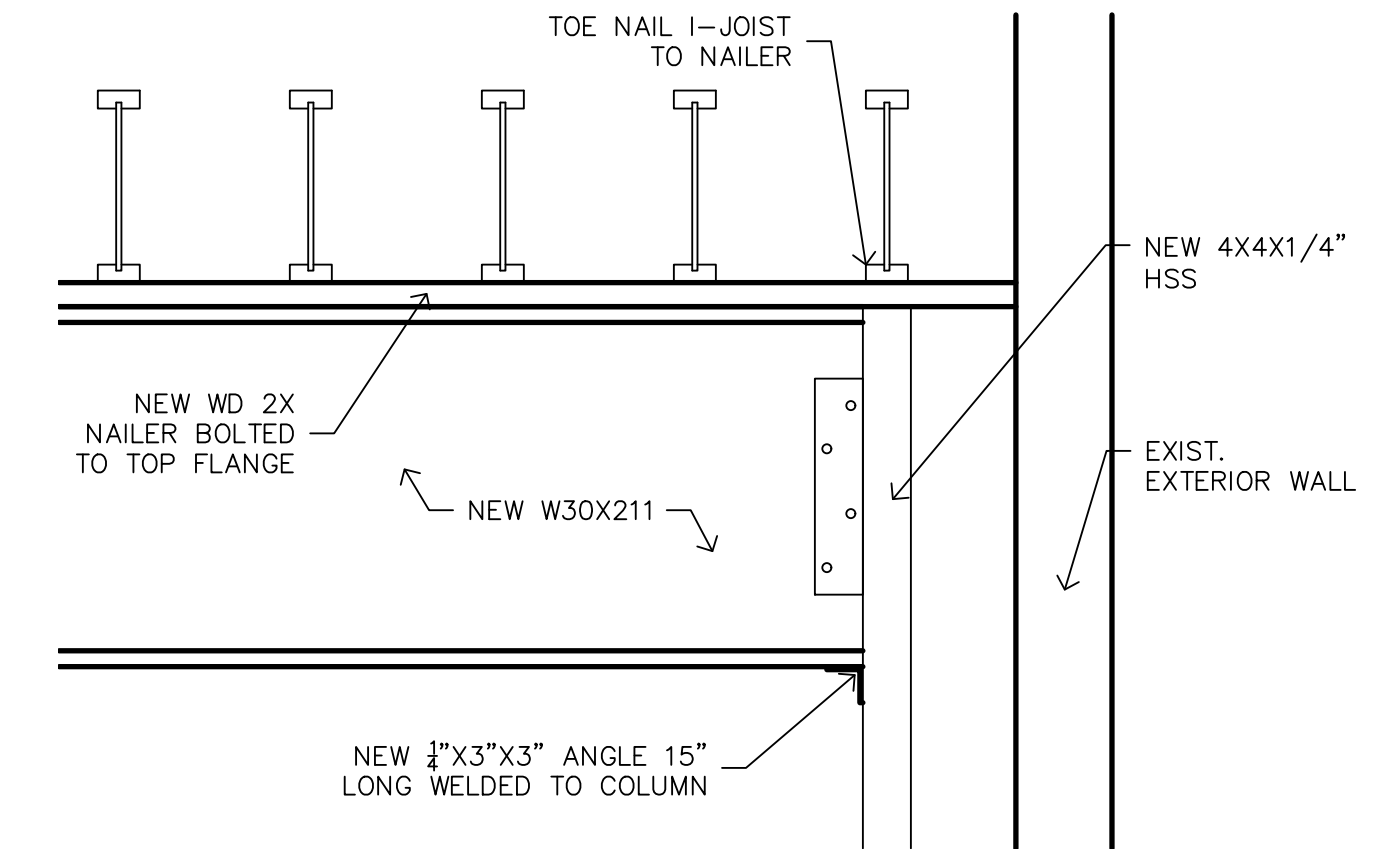
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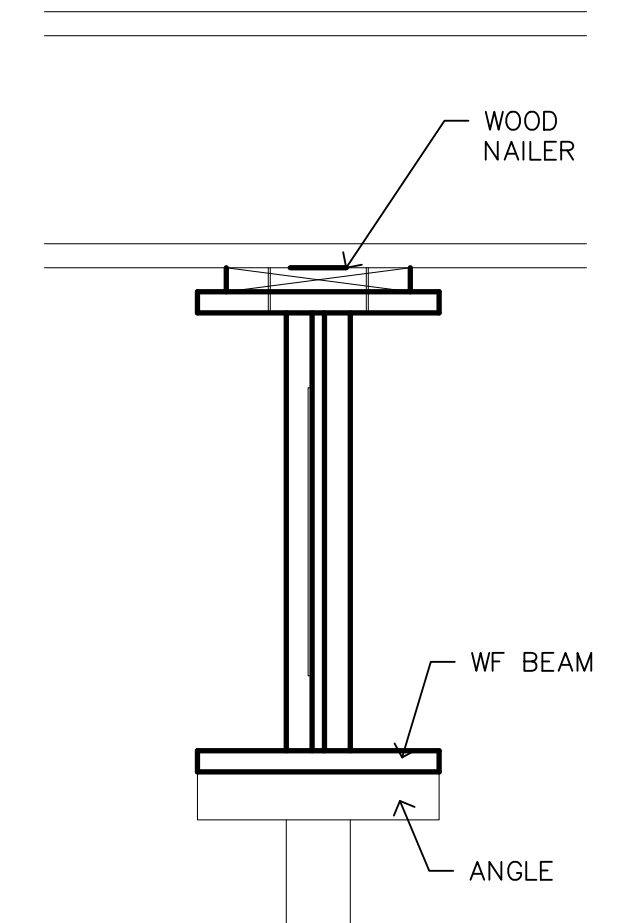
8 COLUMN/FOOTING SECTION F-2
 SCALE: 1/2" = 1'-0"



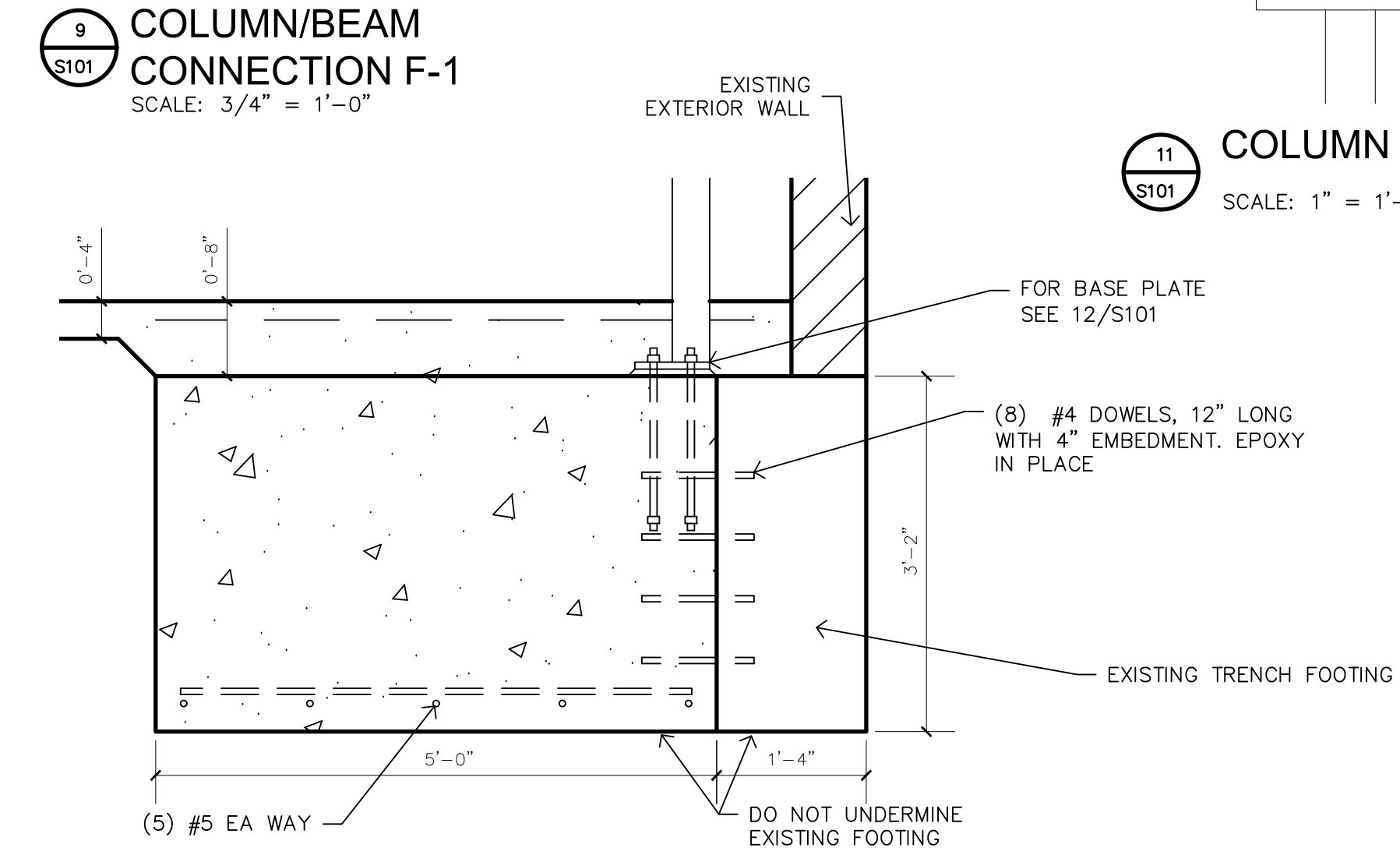
13 STRUCTURAL STAIR PLAN
 SCALE: 3/8" = 1'-0"



9 COLUMN/BAM CONNECTION F-1
 SCALE: 3/4" = 1'-0"



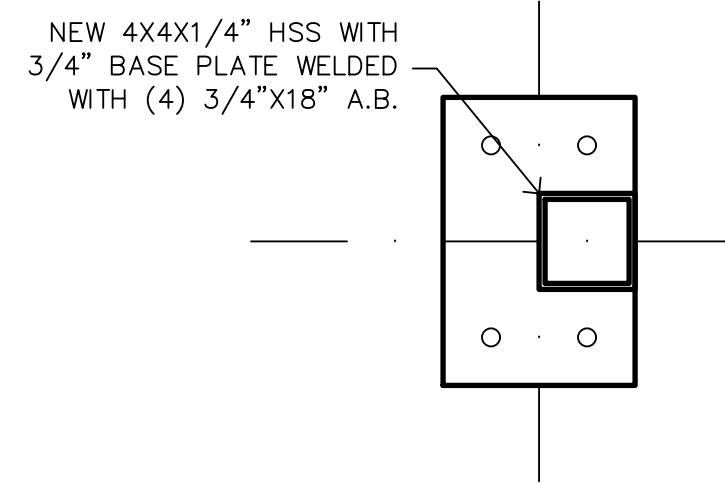
11 COLUMN SECTION
 SCALE: 1" = 1'-0"



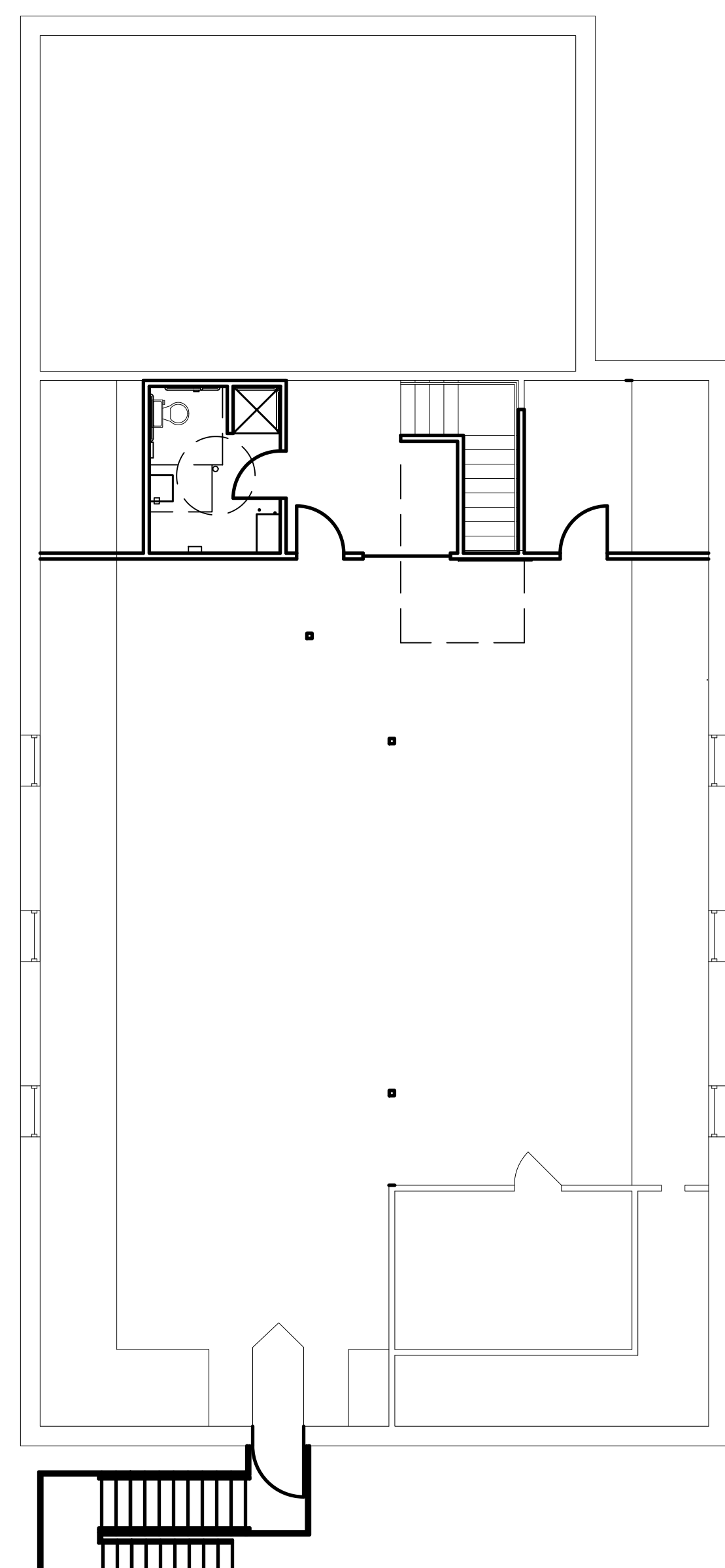
10 COLUMN FOOTING SECTION F-1
 SCALE: 3/4" = 1'-0"

FOOTING SCHEDULE

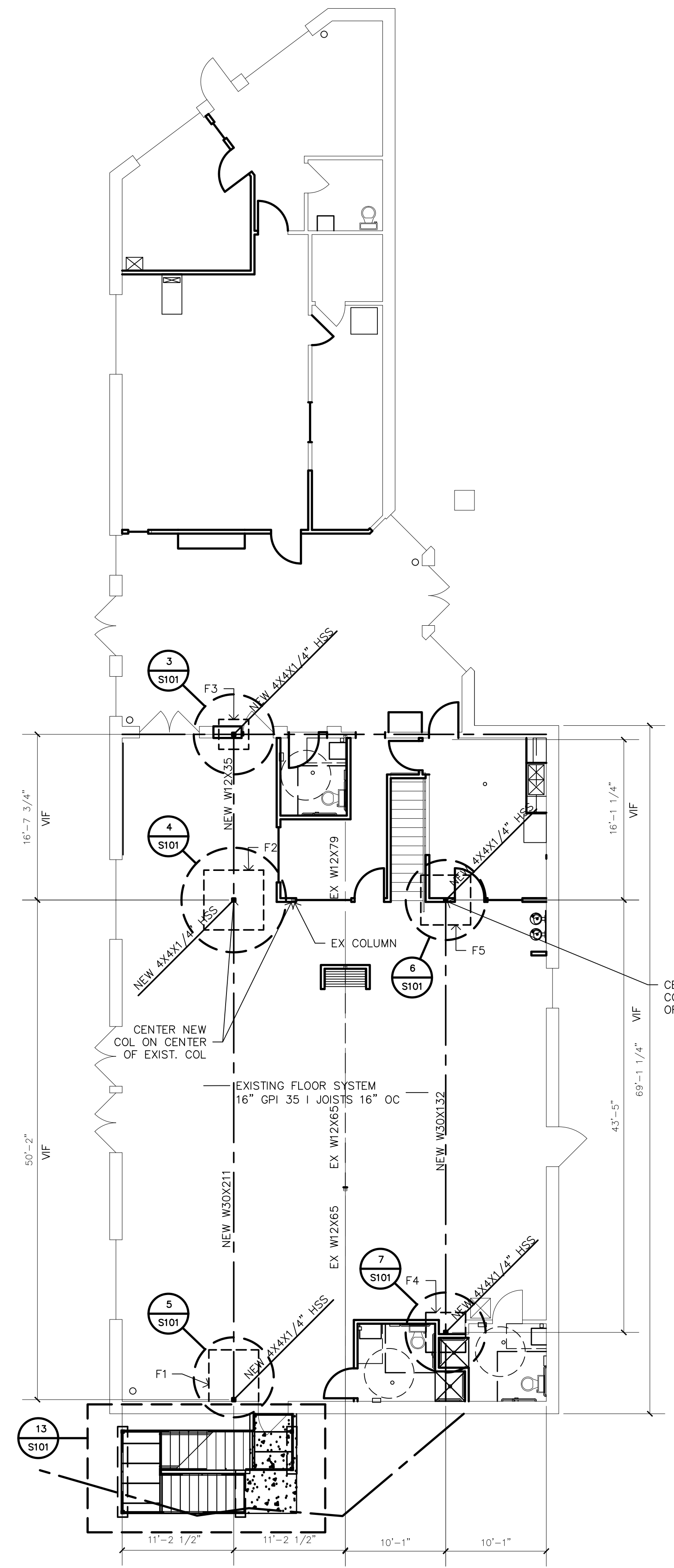
F1	5'-0" X 5'-0" X 3'-2" (12" MIN) WITH 5-#5 EACH WAY
F2	6'-0" X 6'-0" X 15" (15" MIN) WITH 7-#5 EACH WAY
F3	3'-0" X 3'-0" X 12" (12" MIN) WITH 4-#5 EACH WAY
F4	4'-0" X 4'-0" X 12" (12" MIN) WITH 5-#5 EACH WAY
F5	5'-0" X 5'-0" X 12" (12" MIN) WITH 5-#5 EACH WAY



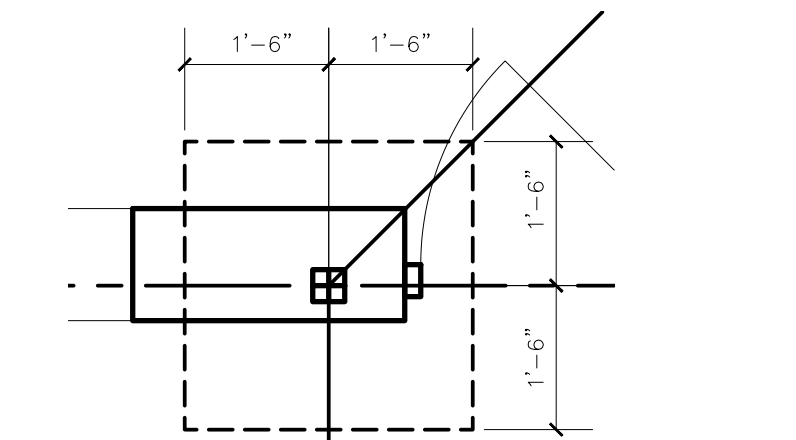
12 COLUMN BASE
 SCALE: 1 1/2" = 1'-0"



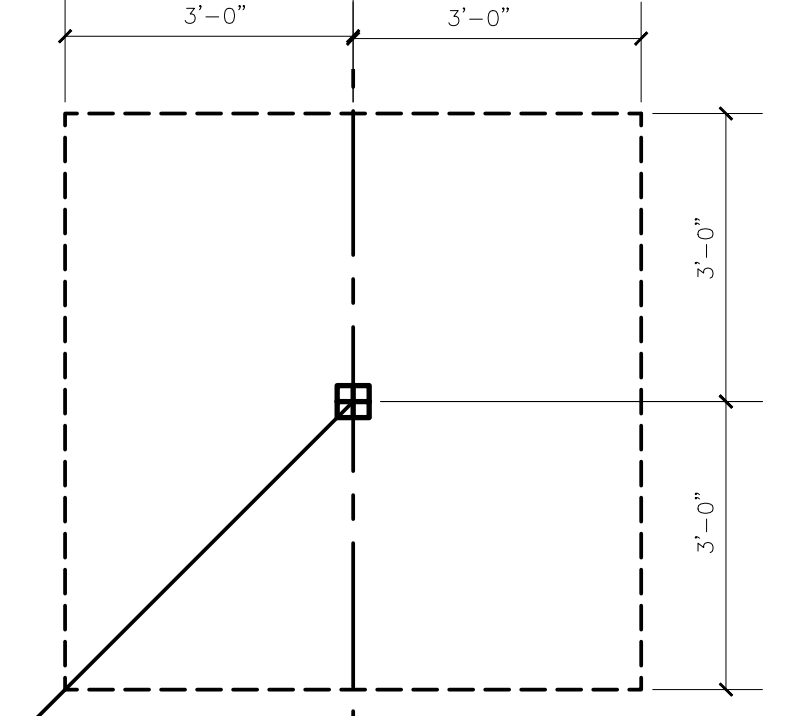
2 STRUCTURAL SECOND FLOOR PLAN
 SCALE: 3/16" = 1'-0"



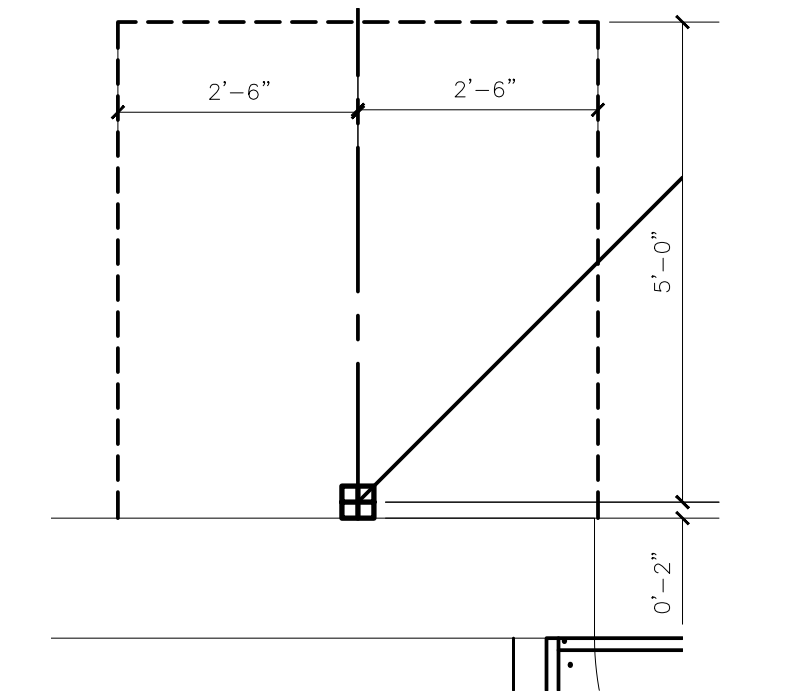
1 STRUCTURAL FIRST FLOOR PLAN
 SCALE: 3/16" = 1'-0"



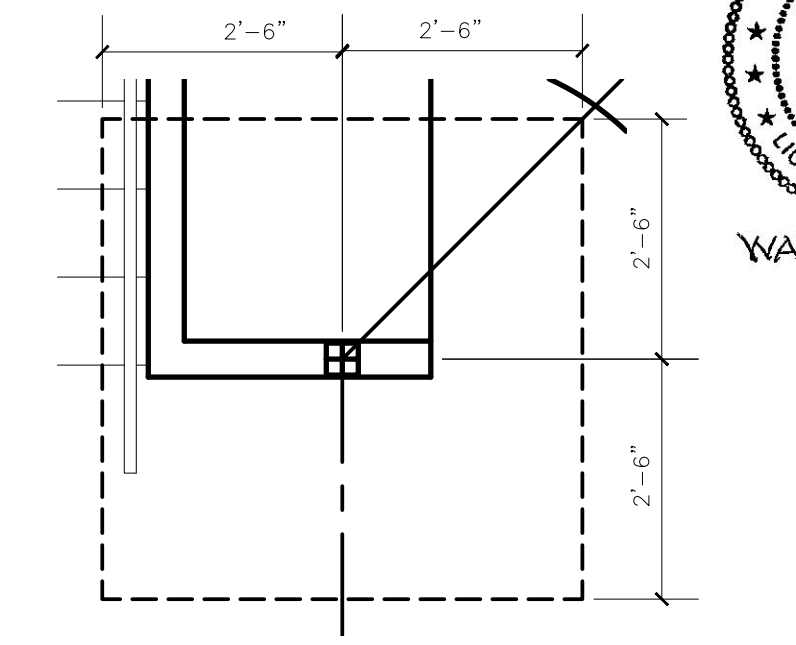
3 COLUMN F3
 SCALE: 3/4" = 1'-0"



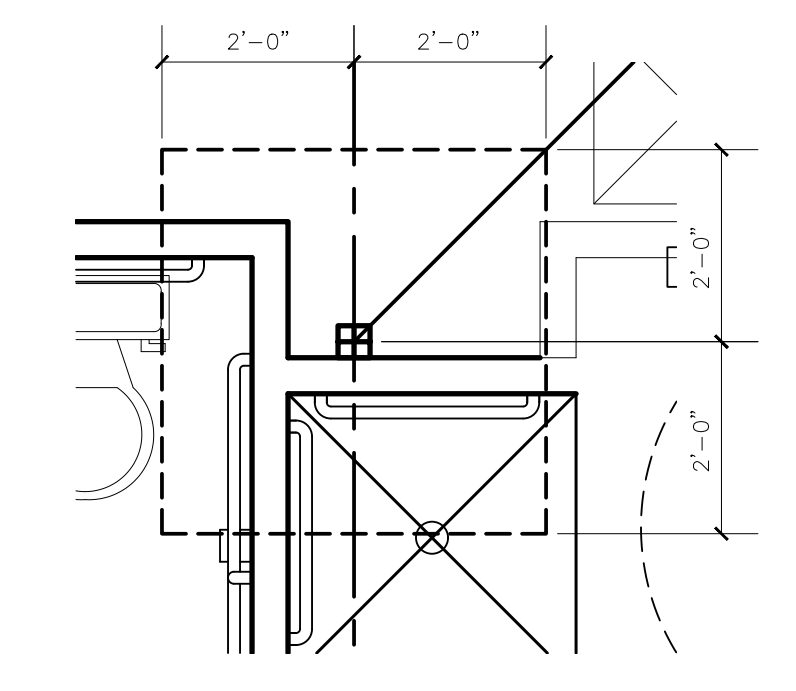
4 COLUMN F2
 SCALE: 3/4" = 1'-0"



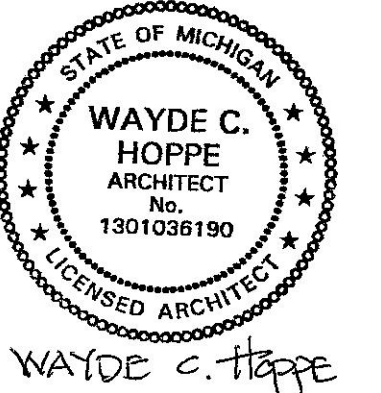
5 COLUMN F1
 SCALE: 3/4" = 1'-0"



6 COLUMN F5
 SCALE: 3/4" = 1'-0"



7 COLUMN F4
 SCALE: 3/4" = 1'-0"



HOPPE DESIGN, LLC
 47032 MERRIDE, BELLEVILLE, MI 48111
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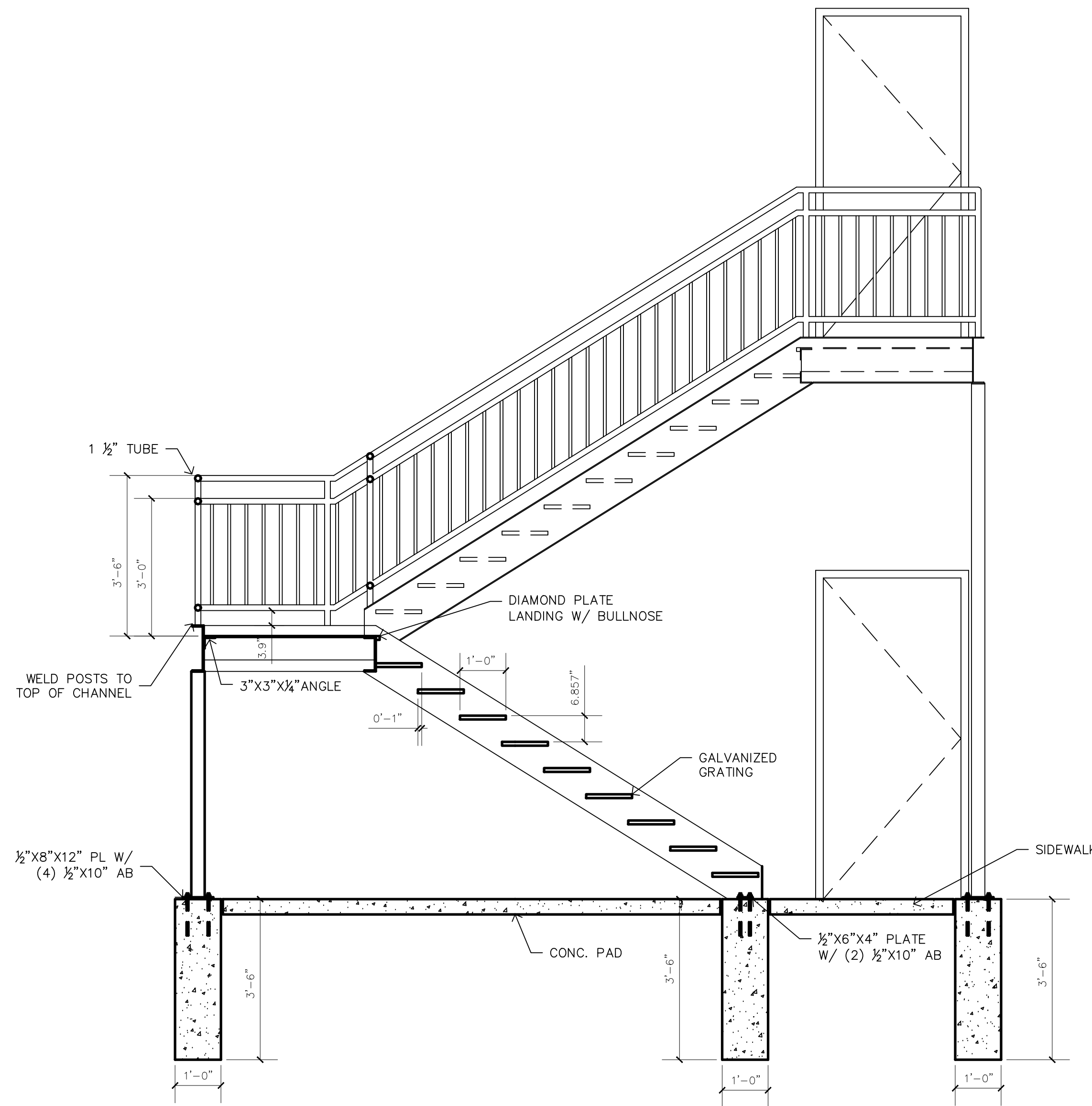
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STRUCTURAL FLOOR PLAN

S101

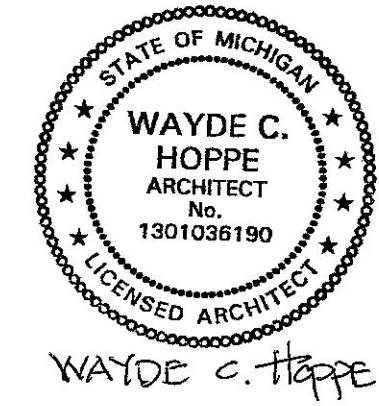
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DESCRIPTION	MANUFACTURER	MODEL	STYLE	FINISH	COLOR	POWER	STANDARD/RESPONSIBILITY	COMMENTS	SUBMITTAL
DIVISION 6									
WOOD BASE				CUSTOM		N/A	AWI/AM	BIRCH AT STAIN LOCATIONS, POPLAR AT PAINTED LOCATIONS. FINISH TO BE EITHER CONVERSION VARNISH OR POST-CATALYZED LACQUER	X
CABINET HARDWARE	KNAPE AND VOGT							STEEL SLIDES, BALL BEARING NYLON ROLLERS WITH 100 LB LOAD	X
CLOSET ROD/SHELF	CLOSETMIND			FACTORY	WHITE	N/A			X
FREPLACE: MANTLE	SEE DRAWING	MAPLE						FINISH TO BE EITHER CONVERSION VARNISH OR POST-CATALYZED LACQUER	X
FREPLACE: SURROUND	ASHLAR FLAG STONE TILE	NY BLUESTONE SELECT							X
FREPLACE: HEARTH	ASHLAR FLAG STONE TILE	NY BLUESTONE SELECT	1" THICKNESSES					SINGLE SLAB CUT TO SHAPE	X
DIVISION 7									
INSULATION, FIBERGLASS, WALL	OWENS CORNING		R-21	N/A	N/A	N/A	HH-I-521, ASTM C666, FLAME SPREAD OF 25 MAX, ASTN E84		X
INSULATION, FIBERGLASS, SOUND ATTENUATION	USG	THERMAFIBER	3" MIN	N/A	N/A	N/A	HH-I-521E, ASTM C666, FLAME SPREAD OF 25 MAX		X
INSULATION, FIBERGLASS, CEILING	OWENS CORNING		R-38	N/A	N/A	N/A		PROVIDE STYROFOAM VENT BAFFLES	X
INSULATION, RIGID, PERIMETER	STYROFOAM		2" RIGID X 24"	N/A	N/A	N/A			X
SEALANT, EXTERIOR		BUTYL					TT-C 598	1 PART POLYMERIZED RUBBER COMPOUND	X
SEALANT, EXTERIOR	THICKAL CHEMICAL CORP	POLYSULFIDE				N/A	USIA A116.1 CLASS B, TT-S227B	TWO COMPONENT POLYSULFIDE W/ BACHER ROD; NON-SAGGING	X
SEALANT, INTERIOR	THICKAL CHEMICAL CORP	ACRYLIC	LATEX			N/A		100% LIQUID POLYMER; NON-SAGGING	X
VENT FLASHING	ARTEC WASHER CO.			FACTORY	MATCH SHINGLES	N/A	NRCA	MATCH ROOF COLOR	X
DIVISION 10									
FREPLACE	SUPERIOR	BY OWNER	BY OWNER	BY OWNER	BY OWNER			OUTSIDE AIR KIT, SCREEN PANELS, TWIN PANE CERAMIC GLASS DOORS, FORCED AIR FAN KIT, GAS SUPPLIES, REMOTE CONTROL, DIRECT VENT ZERO CLEARANCE CHIMNEY; INSULATE CHIMNEY	X
TOILET PAPER DISP	BOBRICK	82888			CHROME	N/A		LOCATE IN ALL BATHROOMS	X
PAPER TOWEL DISPENSER DISPOSAL	BOBRICK	B-369			CHROME	N/A			X
SANITARY DISPOSAL	BOBRICK	270			CHROME	N/A		ONE PER EACH STALL	X
SOAP DISPENSER	BOBRICK	2112			CHROME	N/A		ONE PER LAV	X
SHOWER SEAT	BOBRICK	5151			CHROME	N/A			X
TLMIRROR	BOBRICK	293			CHROME	N/A		16" X 30" AT EACH BF RESTROOM	X
FRAMED MIRROR	BOBRICK	290			CHROME	N/A		24" X 36"	X
HANDRAIL HARDWARE	BOBRICK								X
GRAB BARS	BOBRICK	8208 99X52			CHROME	N/A		PROVIDE 2 X8 WOOD BLOCKING BEHIND GRABBARS	X
FIRE EXTINGUISHER	J.L. INDUSTRIES	3A-40B	2 1/2 GAL	N/A	N/A	N/A			X
DIVISION 11									
DISHWASHER		BY OWNER	BY OWNER	BY OWNER	BY OWNER				X
MICROWAVE		BY OWNER	BY OWNER	BY OWNER	BY OWNER	15A		DEDICATED CIRCUIT	X
REFRIGERATOR		BY OWNER	BY OWNER	BY OWNER	BY OWNER			ICE MAKER, WATER DISPENSER, WATER SUPPLY	X
GARBAGE DISPOSAL	ISE	PRO 333	N/A	N/A	N/A	1 HP, 120/1/60			X
DIVISION 12									
CABINETS- BREAK ROOM	MASTERPIECE	BY OWNER	BY OWNER	FACTORY	BY OWNER	N/A	AWI 400/ KCMA/AM	PROVIDE HARDWARE, DRAWERS, DIVIDERS AND ADJUSTABLE SHELVES - FULL OVERLAY	X
CABINET HARDWARE: BREAK ROOM	MASTERPIECE	205 PULLS		FACTORY	SATIN CHROME	N/A			X
CABINETS- BATHROOM	MASTERPIECE	BY OWNER	BY OWNER	FACTORY	BY OWNER	N/A	AWI 400/ KCMA/AM	PROVIDE HARDWARE, DRAWERS, DIVIDERS AND ADJUSTABLE SHELVES	X
CABINET HARDWARE: BATHROOM	MASTERPIECE	BY OWNER	BY OWNER	FACTORY	BY OWNER	N/A		205 PULLS	X
PLASTIC LAMINATE	WILSONART/NEVAMAR	BY OWNER	BY OWNER	BY OWNER	BY OWNER	N/A	HGS GRADE 10	.050"	X
SOLID SURFACE	CORIAN	BY OWNER	BY OWNER	BY OWNER	BY OWNER	N/A	AWI 400		X



1
A001 STAIR SECTION
SCALE: 1/2" = 1'-0"

ANIMAL FRIENDS VETERINARY HOSPITAL
INTERIOR RENOVATION
500 E. HURON RIVER DRIVE, BELLEVILLE, MI 48111



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CHECKED: WCH

VERIFY ALL DIMENSIONS IN FIELD

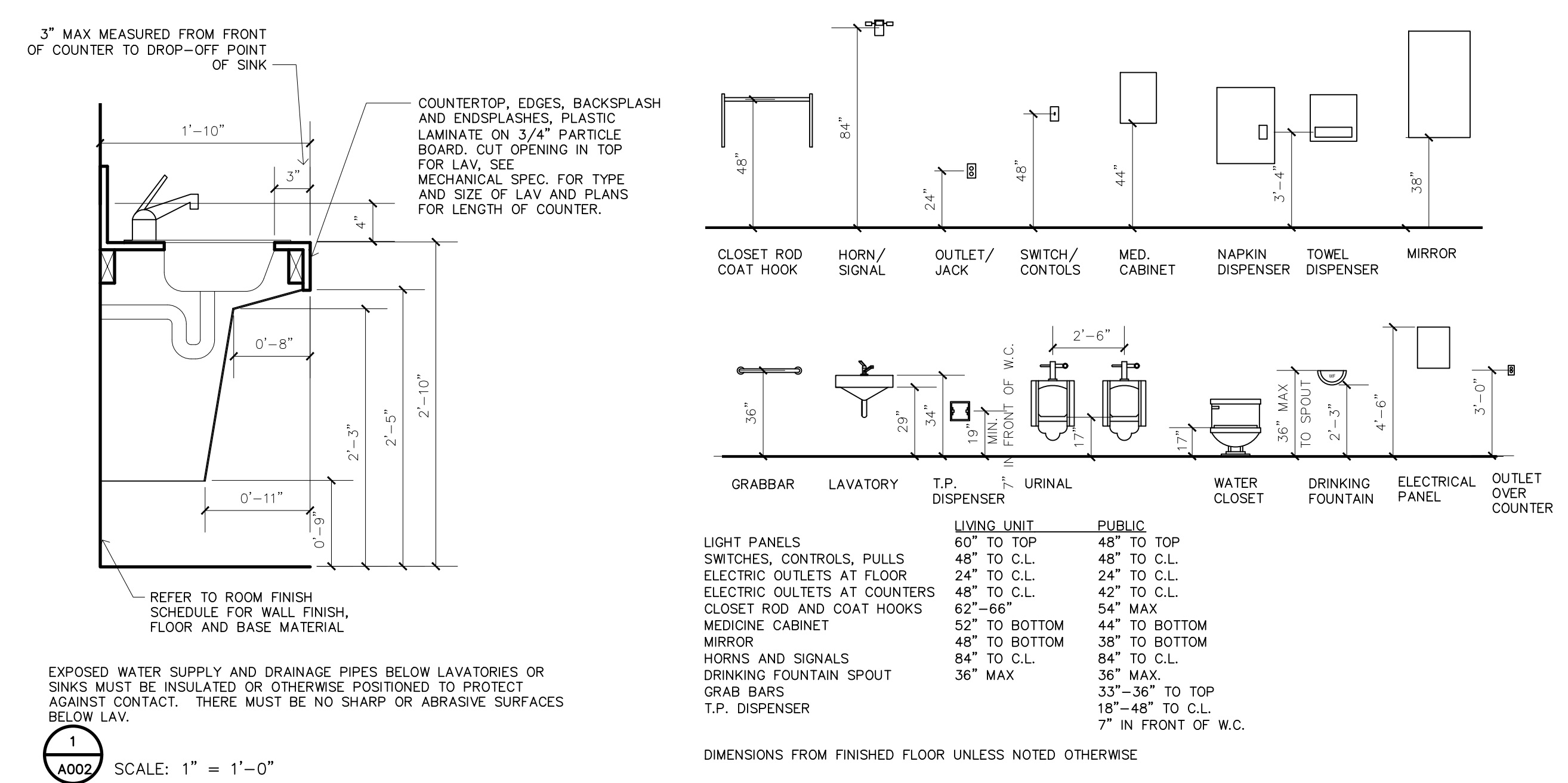
MATERIAL SPECIFICATION

A001

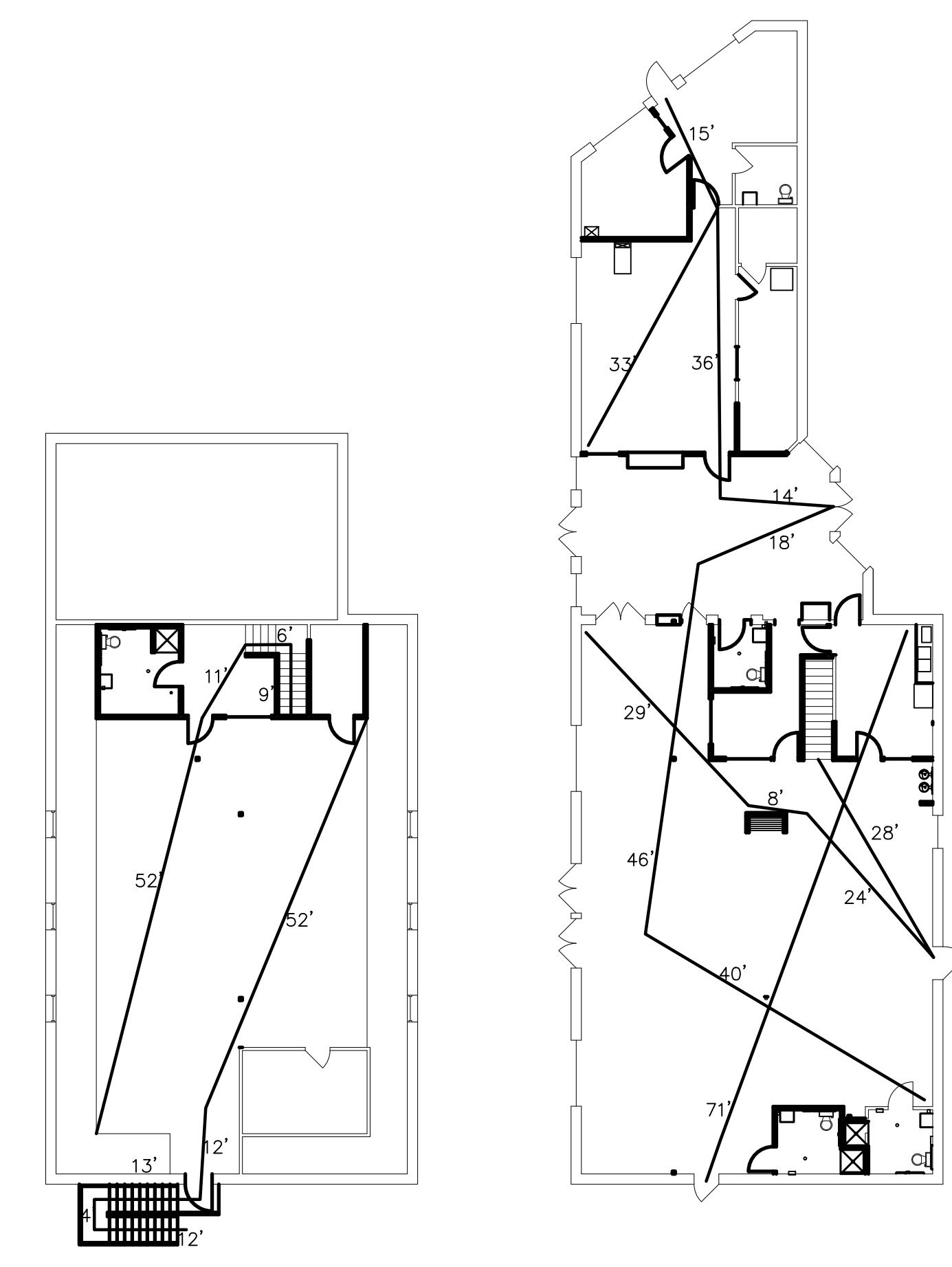
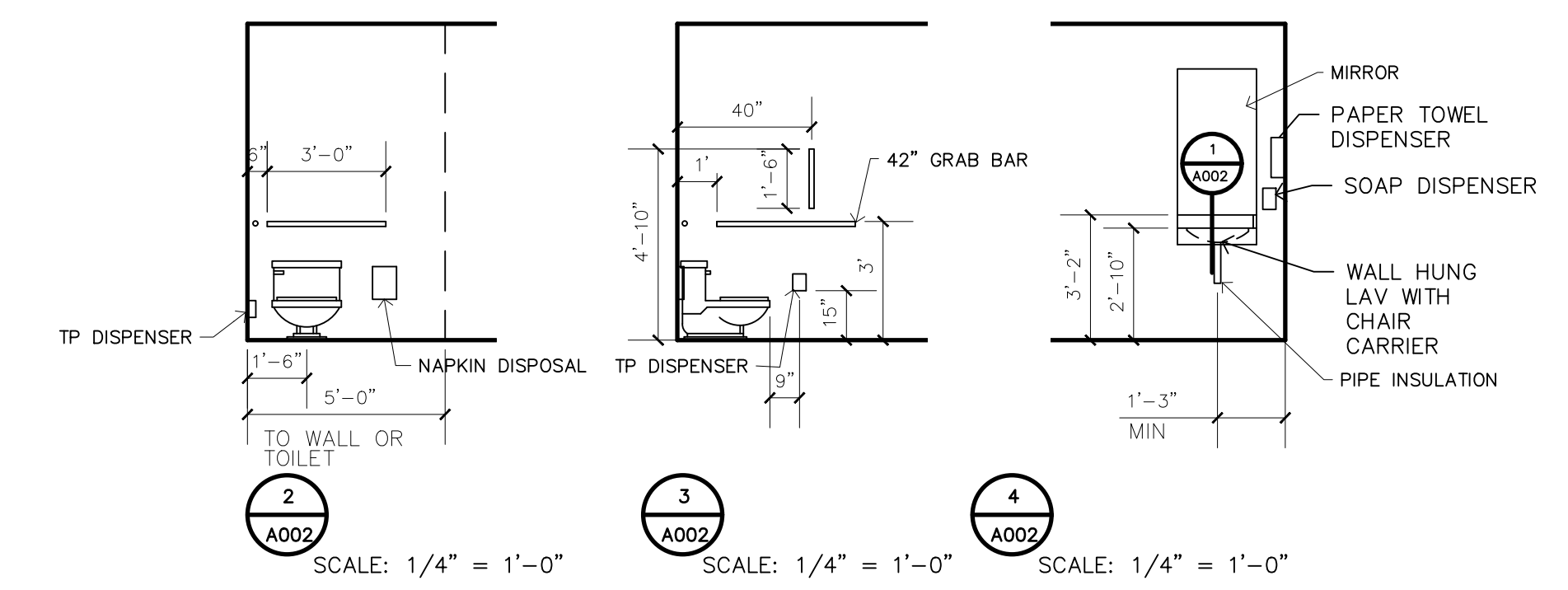
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APPLICABLE CODES			
BUILDING	2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS		
ACCESSIBILITY	INTERNATIONAL FIRE CODE 2009 ICC/ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES		
ENERGY CODE	2010 AMERICANS WITH DISABILITIES ACT ASHRAE 90.1 2013; IECC 2015		
MECHANICAL PLUMBING ELECTRICAL	2015 INTERNATIONAL MECHANICAL CODE 2015 INTERNATIONAL PLUMBING CODE 2017 NFPA 70 NATIONAL ELECTRICAL CODE		
SECTION #	CHAPTER 1	REQUIRED	PROVIDED
107.3.4	REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE		WAYDE HOPPE
107.3.4.1	THE FOLLOWING ITEMS ARE DEFERRED SUBMITTALS. DESIGN OF THESE ITEMS WILL BE SUBMITTED AFTER THE AWARD OF CONTRACT		
SECTION #	CHAPTER 3	REQUIRED	PROVIDED
USE AND OCCUPANCY CLASSIFICATION			
304.1	OCCUPANCY CLASSIFICATION BUSINESS		
	GROUP CLASSIFICATION GROUP B		
	USE CLASSIFICATION PROFESSIONAL SERVICES		VETERINARIAN SERVICES
304.1	OCCUPANCY CLASSIFICATION BUSINESS		
	GROUP CLASSIFICATION GROUP B		
	USE CLASSIFICATION TRAINING AND SKILL DEVELOPMENT		DANCE STUDIO
SECTION #	CHAPTER 5	REQUIRED	PROVIDED
BUILDING AREA			
	TYPE IIB CONSTRUCTION TYPE	TABULAR ALLOWABLE AREA PER FLR	
TABLE 506.2	BASIC TABULAR AREA FOR USE GROUP B WITHOUT SPRINKLER SYSTEM (NS)	19,000 SF	5,100 SF FIRST FLOOR; 2018 SF SECOND FLOOR; ALL FLOORS < 19,000 SF
SECTION #	CHAPTER 6	REQUIRED	PROVIDED
BUILDING CONSTRUCTION TYPE			
	CONSTRUCTION TYPE IIB		IIB
TABLE 601	FIRE RESISTANCE RATINGS		
TABLE 601	STRUCTURAL FRAME	0 HOURS	0 HOURS
TABLE 601	EXTERIOR BEARING WALLS	2 HOURS	2 HOURS
TABLE 601	INTERIOR BEARING WALLS	0 HOURS	0 HOURS
TABLE 601	EXTERIOR NON-BEARING WALLS/PARTITIONS	0 HOURS	0 HOURS
TABLE 601	INTERIOR NON-BEARING WALLS/PARTITIONS	0 HOURS	0 HOURS
TABLE 601	FLOOR CONSTRUCTION	0 HOURS	0 HOURS
TABLE 601	ROOF CONSTRUCTION	0 HOURS	0 HOURS
TABLE 602	EXTERIOR WALL FIRE RATING	0 HOURS	0 HOURS
SECTION #	CHAPTER 7	REQUIRED	PROVIDED
FIRE AND SMOKE PROTECTION FEATURES			
	FIRE RESISTANCE RATED CONSTRUCTION		
SECTION 705.8.1	EXTERIOR WALL OPENINGS		UNLIMITED PER EXCEPTION 1
TABLE 706.4	FIRE WALL RATING		NOT APPLICABLE
TABLE 707.3.10	FIRE BARRIER RATING		NOT APPLICABLE
SECTION 707.3.1	SHAFT ENCLOSURES		
SECTION 708	FIRE PARTITIONS		NOT APPLICABLE
SECTION 709	SMOKE BARRIERS		NOT APPLICABLE
SECTION 710	SMOKE PARTITIONS		NOT APPLICABLE
SECTION #	CHAPTER 8	REQUIRED	PROVIDED
INTERIOR FINISHES			
	OCCUPANCY B BUSINESS		B BUSINESS
	EXIT ENCLOSURES/ PASSAGEWAYS	CLASS A (0-25 FLAME SPREAD INDEX; 0-450 SMOKE DEVELOPED INDEX)	CLASS A (0-25 FLAME SPREAD INDEX; 0-450 SMOKE DEVELOPED INDEX)
	CORRIDORS	CLASS B (25-75 FLAME SPREAD INDEX; 450 SMOKE DEVELOPED INDEX)	CLASS B (25-75 FLAME SPREAD INDEX; 450 SMOKE DEVELOPED INDEX)
	ROOMS AND ENCLOSED SPACES	CLASS C (75-200 FLAME SPREAD INDEX; 450 SMOKE DEVELOPED INDEX)	CLASS C (75-200 FLAME SPREAD INDEX; 450 SMOKE DEVELOPED INDEX)
SECTION #	CHAPTER 9	REQUIRED	PROVIDED
FIRE PROTECTION SYSTEMS			
	GROUP B BUSINESS	NON REQUIRED	NONE PROVIDED
SECTION 907.2.1	FIRE ALARM AND DETECTION SYSTEM	NOT REQUIRED	NOT PROVIDED
SECTION 906.1	FIRE EXTINGUISHERS	REQUIRED	PROVIDED
SECTION #	CHAPTER 10	REQUIRED	PROVIDED
OCCUPANT LOAD			
	EXISTING BUILDING AREA FIRST FLOOR		
TABLE 1004.1.1	BUSINESS	100 (GROSS)	679 / 100 = 7
TABLE 1004.1.1	EXERCISE	50 (GROSS)	2243 / 50 = 45
TABLE 1004.1.1	UNCONCENTRATED (TABLES AND CHAIRS)	15 (NET)	1206 / 15 = 81
TABLE 1004.1.1	MECHANICAL/ ACCESSORY STORAGE	300 (GROSS)	283 / 300 = 1
	TOTAL FIRST FLOOR		135
	EXISTING BUILDING AREA SECOND FLOOR		
TABLE 1004.1.1	EXERCISE	50 (GROSS) SECOND FLOOR	1508 / 50 = 32
TABLE 1004.1.1	MECHANICAL/ ACCESSORY STORAGE	300 (GROSS)	598 / 300 = 2
	TOTAL SECOND FLOOR		34
MEANS OF EGRESS			
	B BUSINESS		
	STAIRWAYS	NA	NA
	OTHER EGRESS COMPONENTS: 2' / PERSON	165 PEOPLE X 2' / PERSON = 33 INCHES	108 INCHES
TABLE 1017.2	TRAVEL DISTANCE B NON SPRINKLED	200	107 FIRST FLOOR; 92' SECOND FLOOR
SECTION 1020.2	CORRIDOR WIDTH	44 INCHES (MIN.)	NOT APPLICABLE
TABLE 1020.1	CORRIDOR RATING B NON SPRINKLED	1 HOUR	NOT APPLICABLE
TABLE 1006.2.1	SPACES WITH ONE EXIT EGRESS (SECOND FLOOR)	MAX OCC LOAD = 49; OCC LOAD < OR EQUAL TO 30 THEN TRAVEL DISTANCE = 100' MAX	SECOND FLOOR OCC LOAD = 34; TRAVEL DISTANCE IS 92'; TWO EXIT ACCESS REQUIRED
TABLE 1006.3.1	NUMBER OF EXITS	1 MIN	3 PROVIDED
SECTION #	CHAPTER 11	REQUIRED	PROVIDED
ACCESSIBILITY			
SECTION 1104.4	AN ACCESSIBLE ROUTE IS NOT REQUIRED TO STORES < 3000 SF	NO ELEVATOR REQUIRED	NO ELEVATOR PROVIDED
SECTION #	MICHIGAN PLUMBING CODE	REQUIRED	PROVIDED
	B BUSINESS		
	WATER CLOSETS	1.25 FOR FIRST 50, THEN 1.50 FOR THE REMAINDER	50/25 = 2; 135-50 = 85; 85/50 = 2; 2 + 2 = 3 REQUIRED; 4 PROVIDED
	LAVATORIES	1.40 FOR FIRST 50, THEN 1.80 FOR REMAINDER	50/40 = 2; 135-50 = 85; 85/80 = 2; 2 + 2 = 4 REQUIRED; 4 PROVIDED
	DRINKING FOUNTAIN	1/100	165/100 = 2 REQUIRED; 2 PROVIDED
	SERVICE SINK	1 REQUIRED	1 PROVIDED

MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS			
SECTION #	REQUIRED	PROVIDED	
SECTION #	CHAPTER 4	REQUIRED	PROVIDED
WORK AREA METHOD			
403	ALTERATIONS SHALL COMPLY WITH THE MBC		SEE MBC REVIEW ABOVE
410.1	WHEN THERE IS A CHANGE IN USE GROUP OR OCCUPANCY LOAD THEN CHANGES MUST BE ACCESSIBLE		
SECTION #	CHAPTER 7	REQUIRED	PROVIDED
ALTERATIONS LEVEL 1			
SECTION #	CHAPTER 8	REQUIRED	PROVIDED
ALTERATIONS LEVEL 2			
803.2.1	OPENING ENCLOSURE EXCEPTIONS 1. WHERE NO ENCLOSURE OF VERTICAL OPENINGS IS REQUIRED BY THE MBC 4. A 30 MIN ENCLOSURE IS TO BE PROVIDED TO PROTECT ALL VERTICAL OPENINGS LESS THAN OR EQUAL TO THREE STORES MEET THE INTERIOR FINISH REQUIREMENTS OF THE MBC		PROVIDED
803.4	GUARDS TO BE PROVIDED PER THE MBC		PROVIDED
803.5	FIRE ALARM	NOT REQUIRED	NOT PROVIDED
804.4	THE NUMBER OF EXITS IS TO BE DETERMINED BY THE OCCUPANT LOAD PER THE MBC		PROVIDED
805.3	IF OCCUPANT LOAD IS GREATER THAN 100 OR WHERE WORK AREA IS GREATER THAN 50% OF THE FLOOR AREA PROVIDE PANIC HARDWARE		
805.4.4	DEAD ENDS LIMITED TO 35'		NONE PROVIDED
805.6	EXIT SIGNS		PROVIDED
805.9	HANDRAILS		PROVIDED
805.11	GUARDS PER THE MBC		PROVIDED
806.1	COMPLY WITH ACCESSIBILITY OF 410		
410.3	ACCESSIBILITY GREATER THAN WHAT IS REQUIRED FOR NEW CONSTRUCTION IS NOT REQUIRED		NO ELEVATOR PROVIDED
410.6, EXCEPTION 2	ACCESSIBLE MEANS OF EGRESS NOT REQUIRED IN AN EXISTING BUILDING		



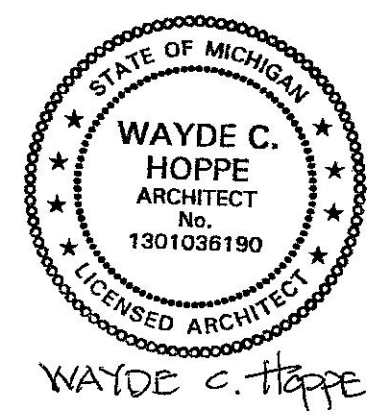
1 A002 SCALE: 1" = 1'-0"



5 A002 EGRESS PLANS PROJECT NORTH SCALE: 1/16" = 1'-0"

TOTAL AREA
FIRST FLOOR 5100 SF
SECOND FLOOR 2018 SF

CODE REVIEW



HOPPE DESIGN, LLC
47032 MERRIDGE, BELLEVILLE, MI 48111
734-215-2492

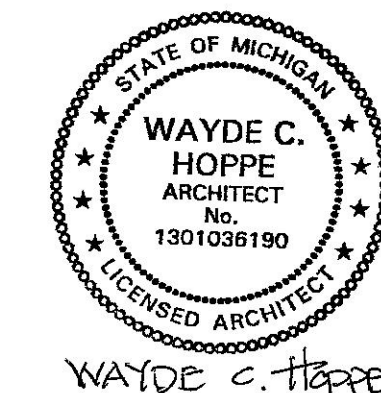
REVISIONS

PROJECT: 2202
DATE: 7.15.22
DRAWN: JPH
CHECKED: WCH

VERIFY ALL DIMENSIONS IN FIELD

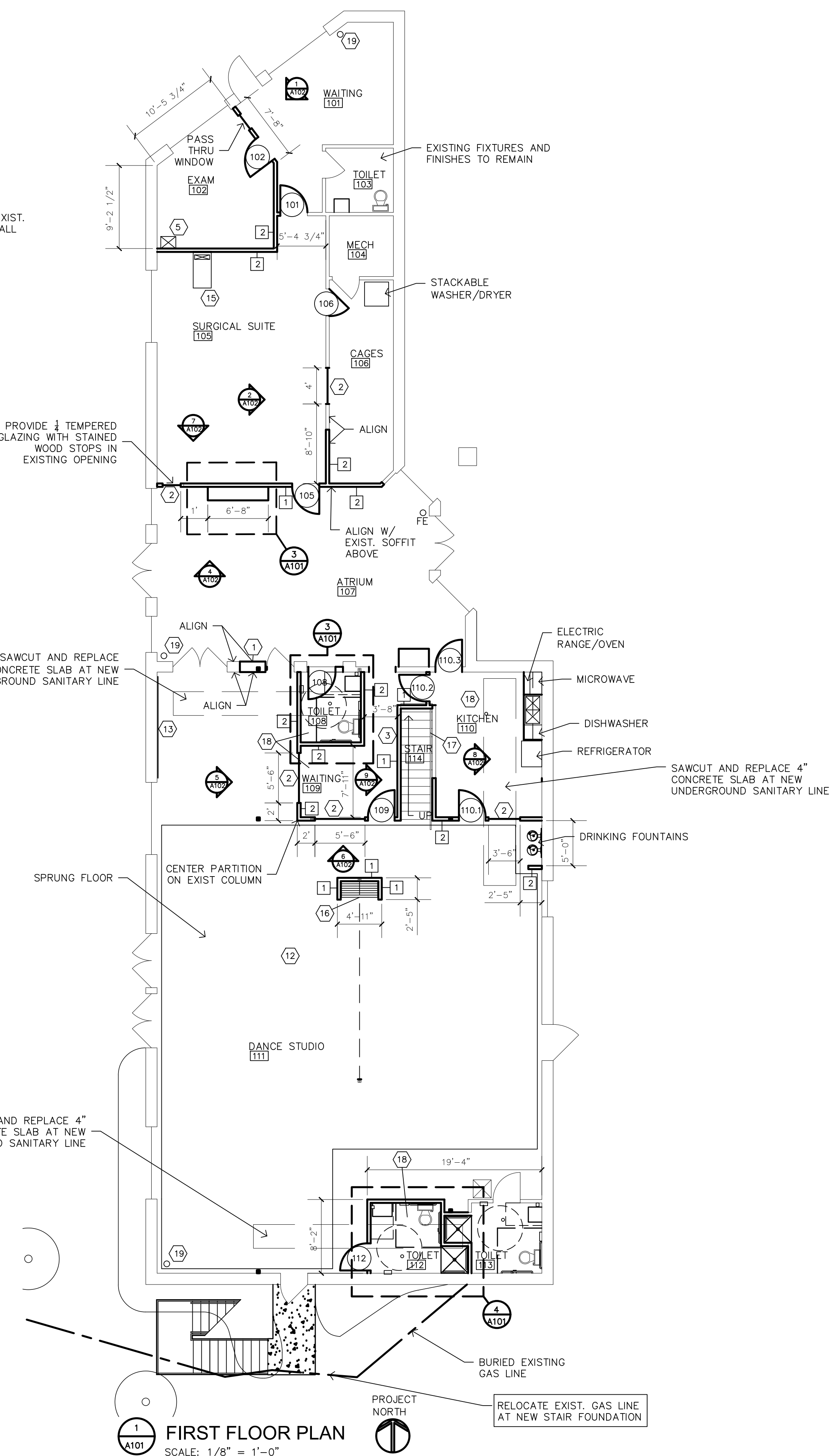
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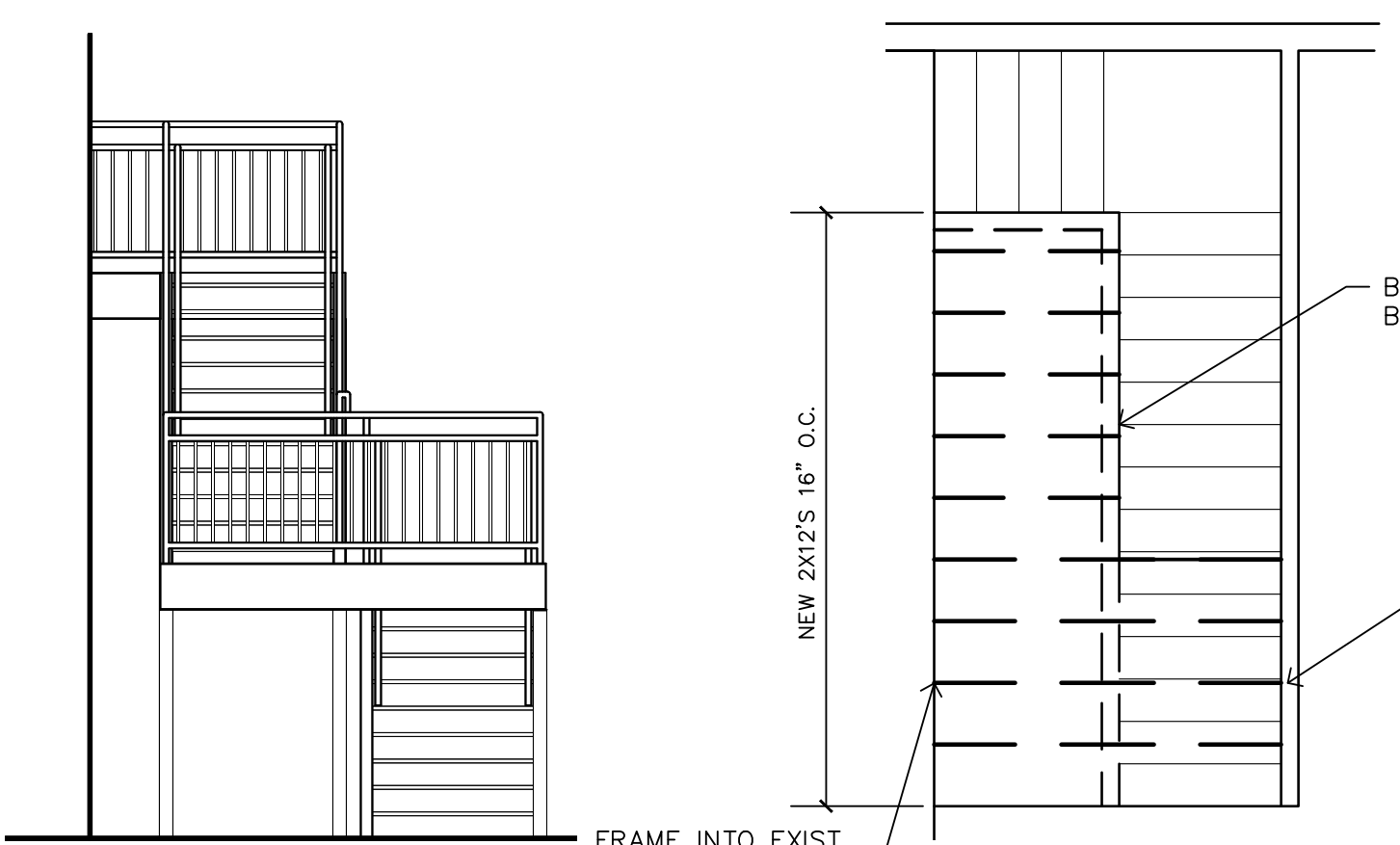


FLOOR PLAN

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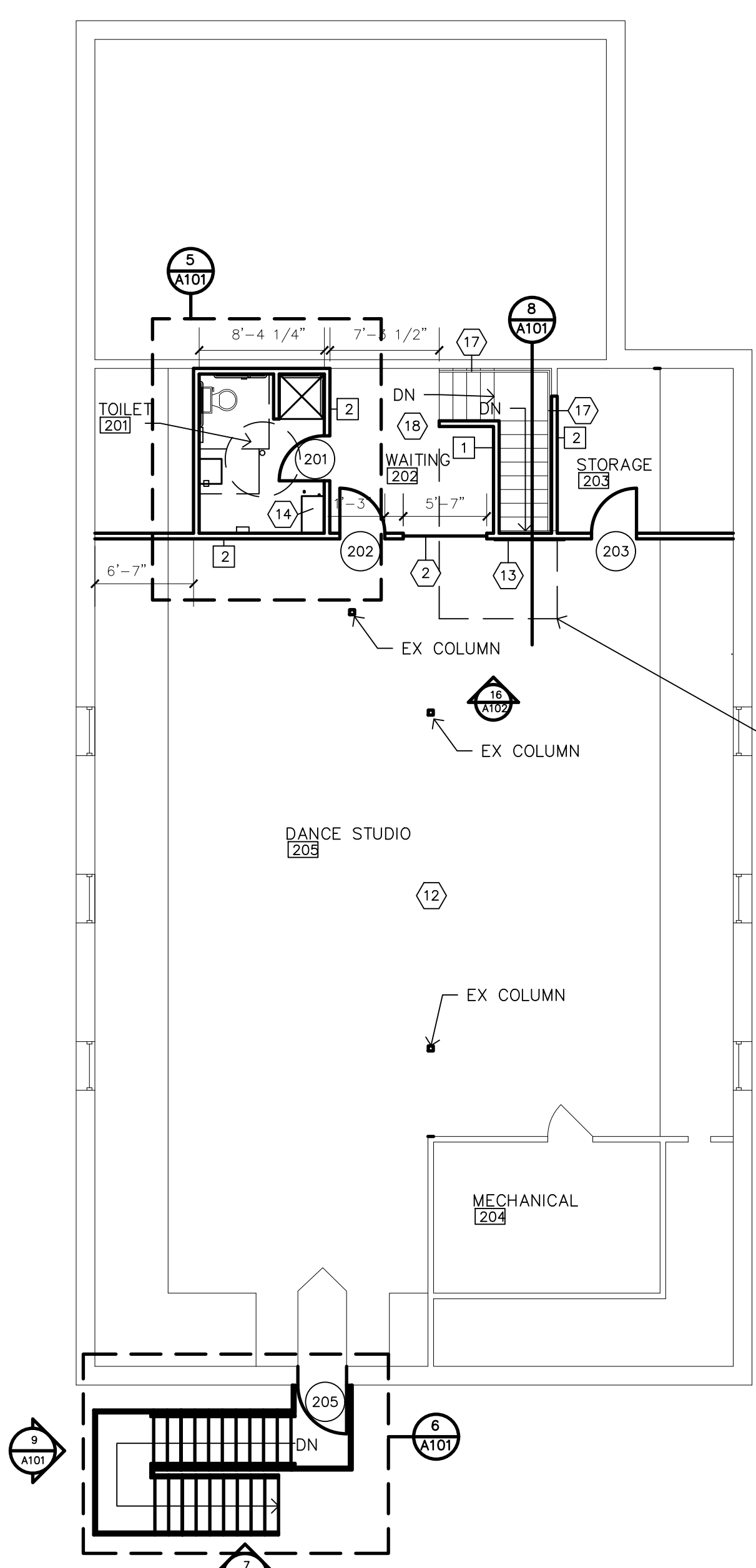


1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

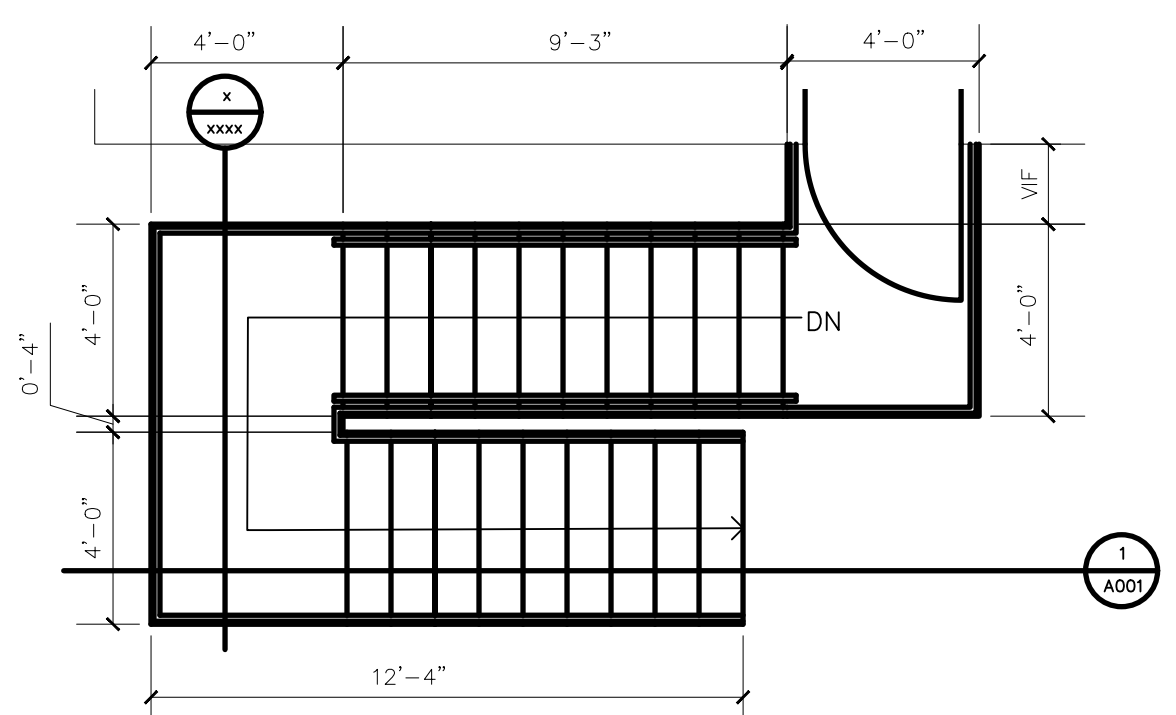


10 INTERIOR STAIR FRAMING PLAN
SCALE: 1/4" = 1'-0"

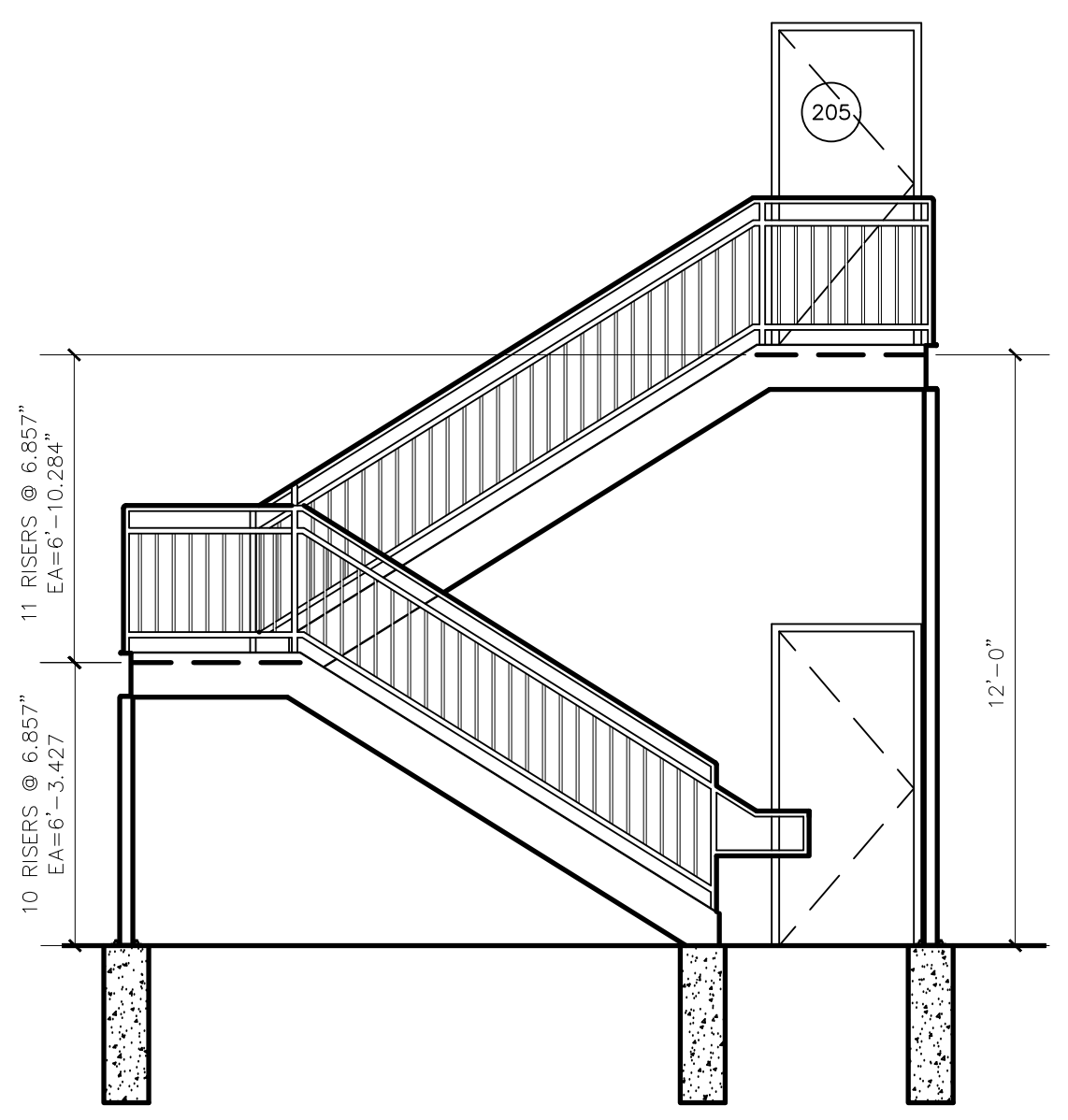
9 STAIR ELEVATION
SCALE: 1/4" = 1'-0"



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

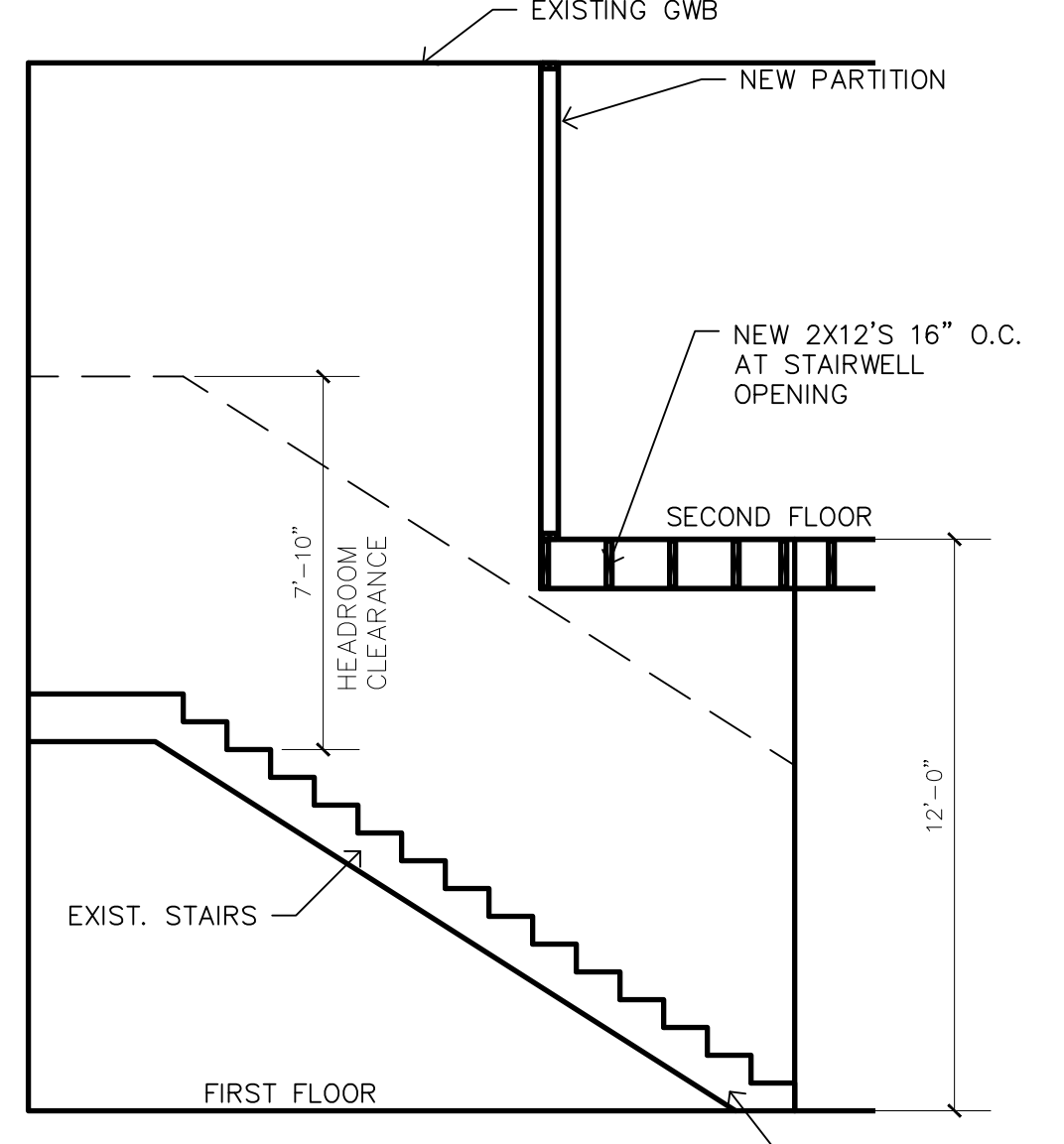


6 L.S. EXTERIOR STAIR 203
SCALE: 1/4" = 1'-0"



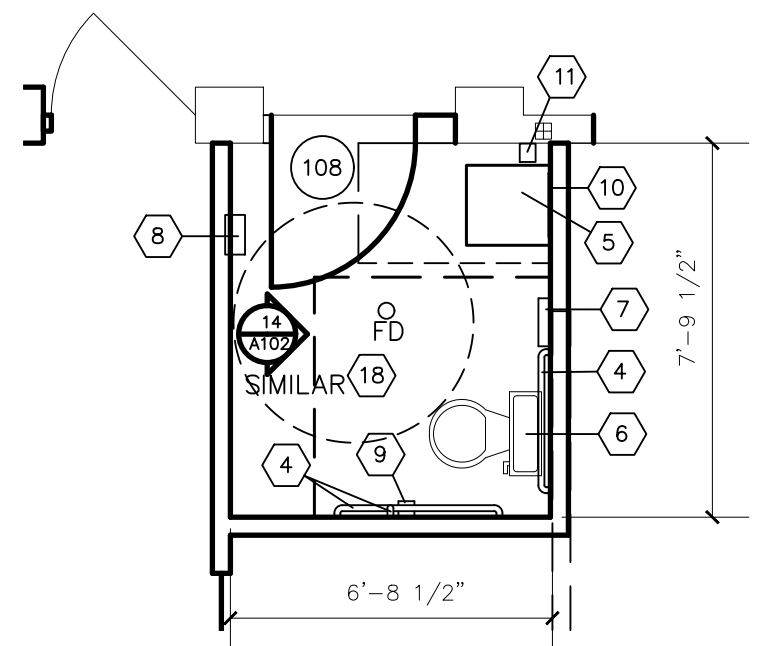
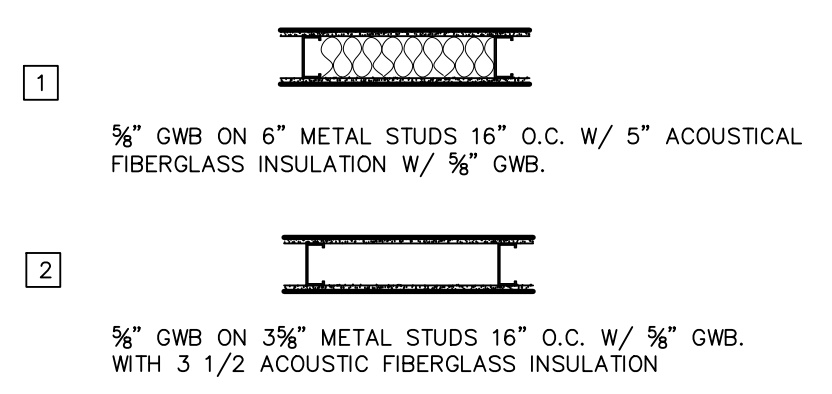
7 EXTERIOR STAIR ELEVATION
SCALE: 1/4" = 1'-0"

NOTE: ALL EXTERIOR STEEL TO BE GALVANIZED. ALL STRINGERS AND RAILS TO BE POWDER COATED. COLOR BY OWNER

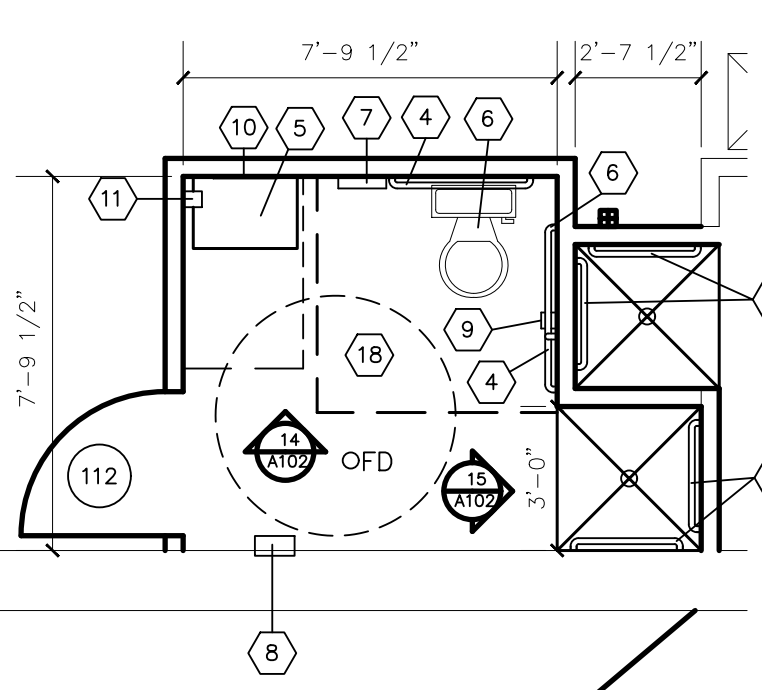


8 STAIR SECTION
SCALE: 1/4" = 1'-0"

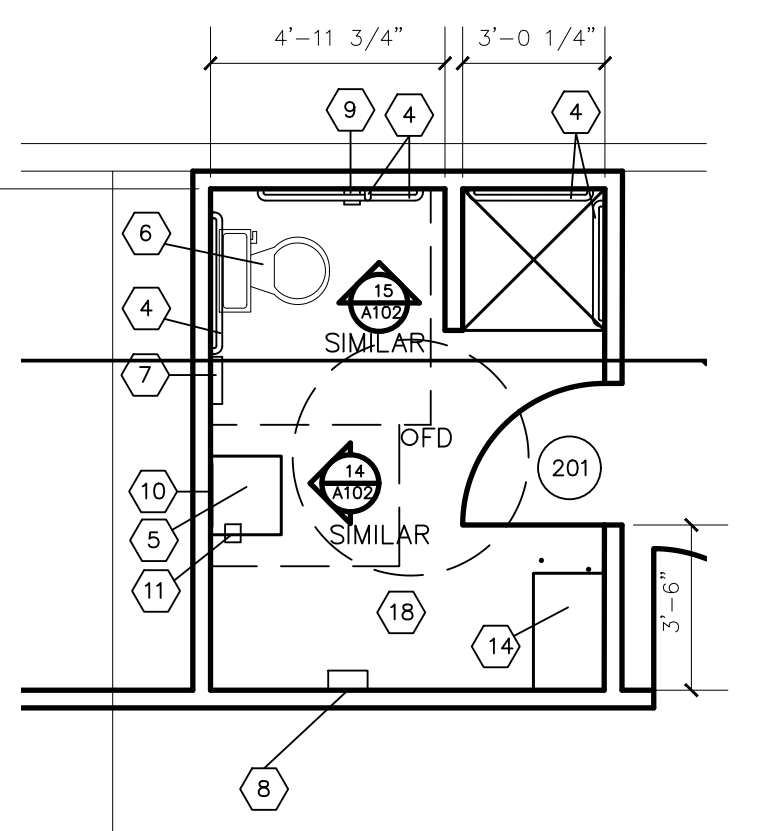
WALL TYPES



3 L.S. PLAN TOILET 108
SCALE: 1/4" = 1'-0"



4 L.S. PLAN TOILET 112
SCALE: 1/4" = 1'-0"



5 L.S. PLAN TOILET 201
SCALE: 1/4" = 1'-0"

KEYNOTES

1. PROVIDE INFILL CONSTRUCTION TO MATCH ADJACENT
2. 1" TEMPERED GLAZING IN WOOD FRAME WITH WOOD STOPS
3. EXTEND PARTITION TO UNDERSIDE OF FLOOR JOISTS
4. GRAB BAR
5. LAVATORY
6. TOILET
7. FEMININE NAPKIN DISPOSAL
8. PAPER TOWEL DISPENSER
9. TOILET PAPER DISPENSER
10. MIRROR
11. SOAP DISPENSER
12. SPRUNG FLOOR
13. WALL HUNG TEMPERED MIRROR
14. LINEN CABINET
15. DENTAL EQUIPMENT AND UNIT SUPPLIED BY OWNER AND INSTALLED BY GC
16. MOVABLE PARTITION
17. HANDRAIL
18. SOUND ATTENUATION INSULATION ABOVE CEILING
19. 2A:10B FIRE EXTINGUISHER

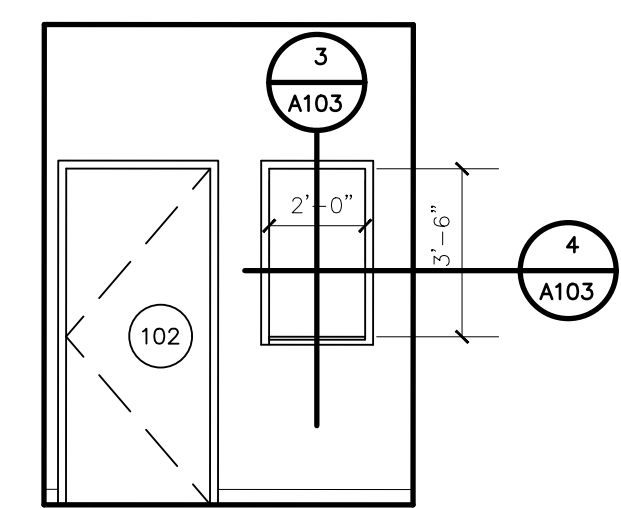
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NOTES

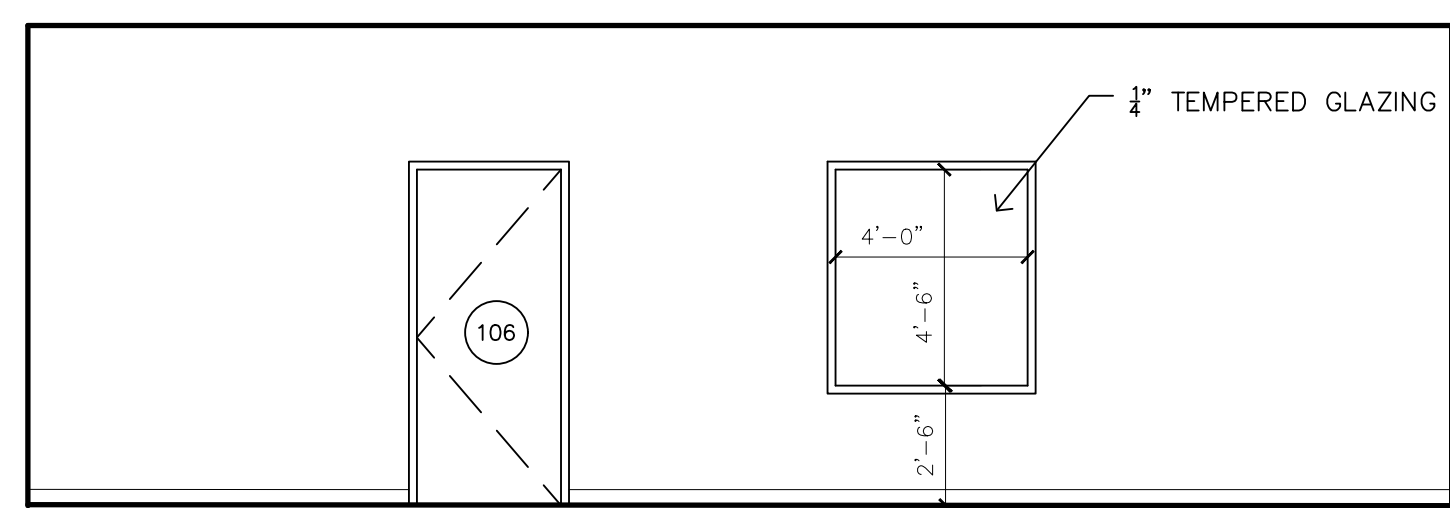
1. PROVIDE FINISHED FLOOR FINISH TO MATCH EXISTING ADJACENT FLOORING IN AREAS OF NEW CONCRETE SLAB
2. DETERMINE LOCATION OF UNDERGROUND SANITARY IN FIELD
3. DETERMINE EXACT LOCATION OF BURIED GAS LINE, PRIOR TO EXCAVATION
4. DOOR THRESHOLDS TO BE RAISED TO ACCOMMODATE SPRUNG FLOOR
5. SPRUNG FLOOR TO BE PROPRIETARY PRODUCT SELECTED BY OWNER. PROVIDE UNIT PRICE IN PROPOSAL

GAS FIREPLACE AS MFRD BY SUPERIOR

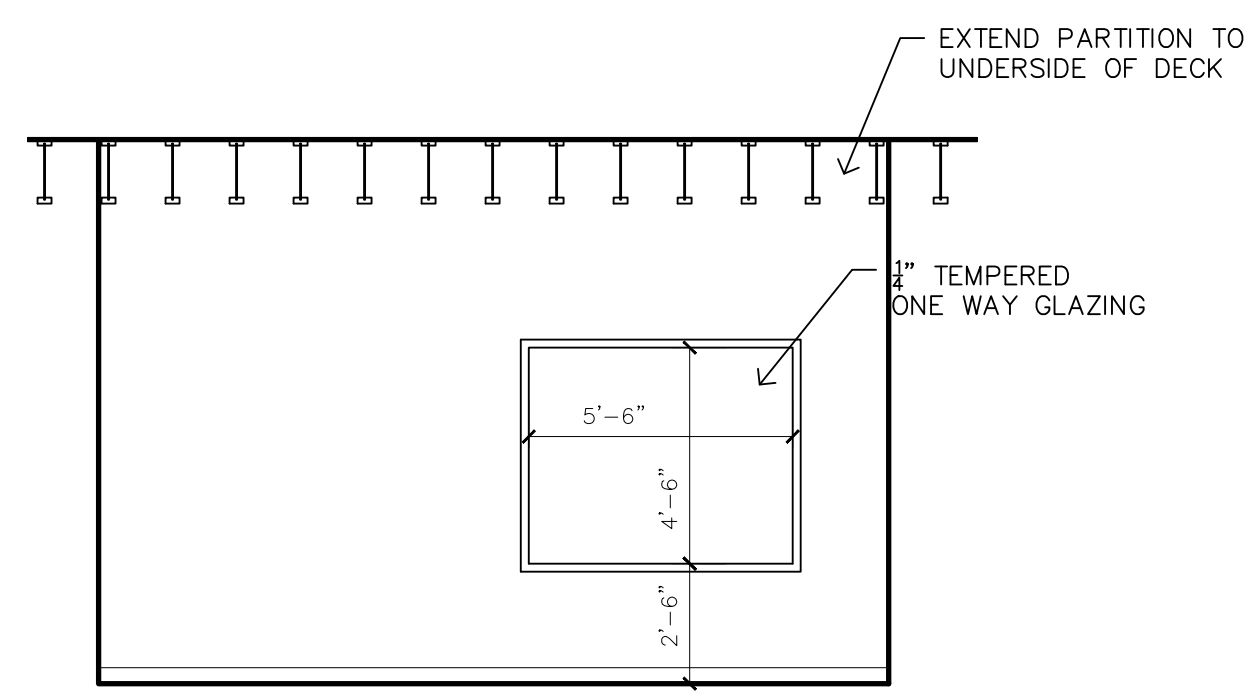
DRL 6060, 60" LONG DIRECT VENT GAS FIREPLACE. PROVIDE BLACK TRIM, RIVERROCK MEDIA, CERAMIC GLASS OPENING, HEAT CIRCULATING BLOWER, MULTI FUNCTION REMOTE, ELECTRONIC IGNITION, INTEGRATED TILE STOPS. BLACK PORCELAIN LINER, FLOOR LIGHTING. 20 YR. WARRANTY VERIFY W/ MANUFACTURER ALL REQUIRED FRAMING CLEARANCES, GAS, AND ELECTRIC SUPPLY AND EXHAUST REQUIREMENTS.



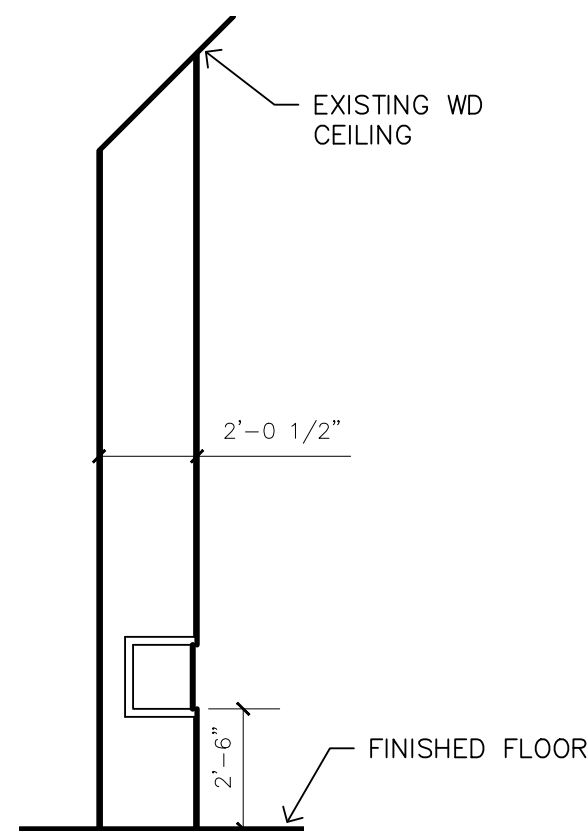
1 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



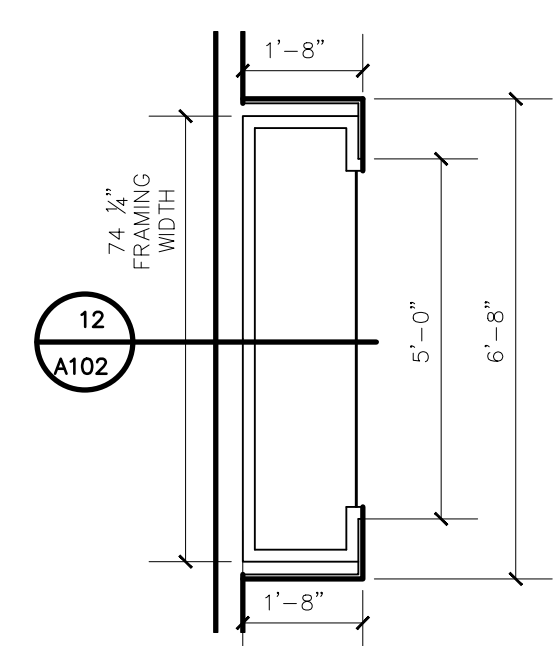
2 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



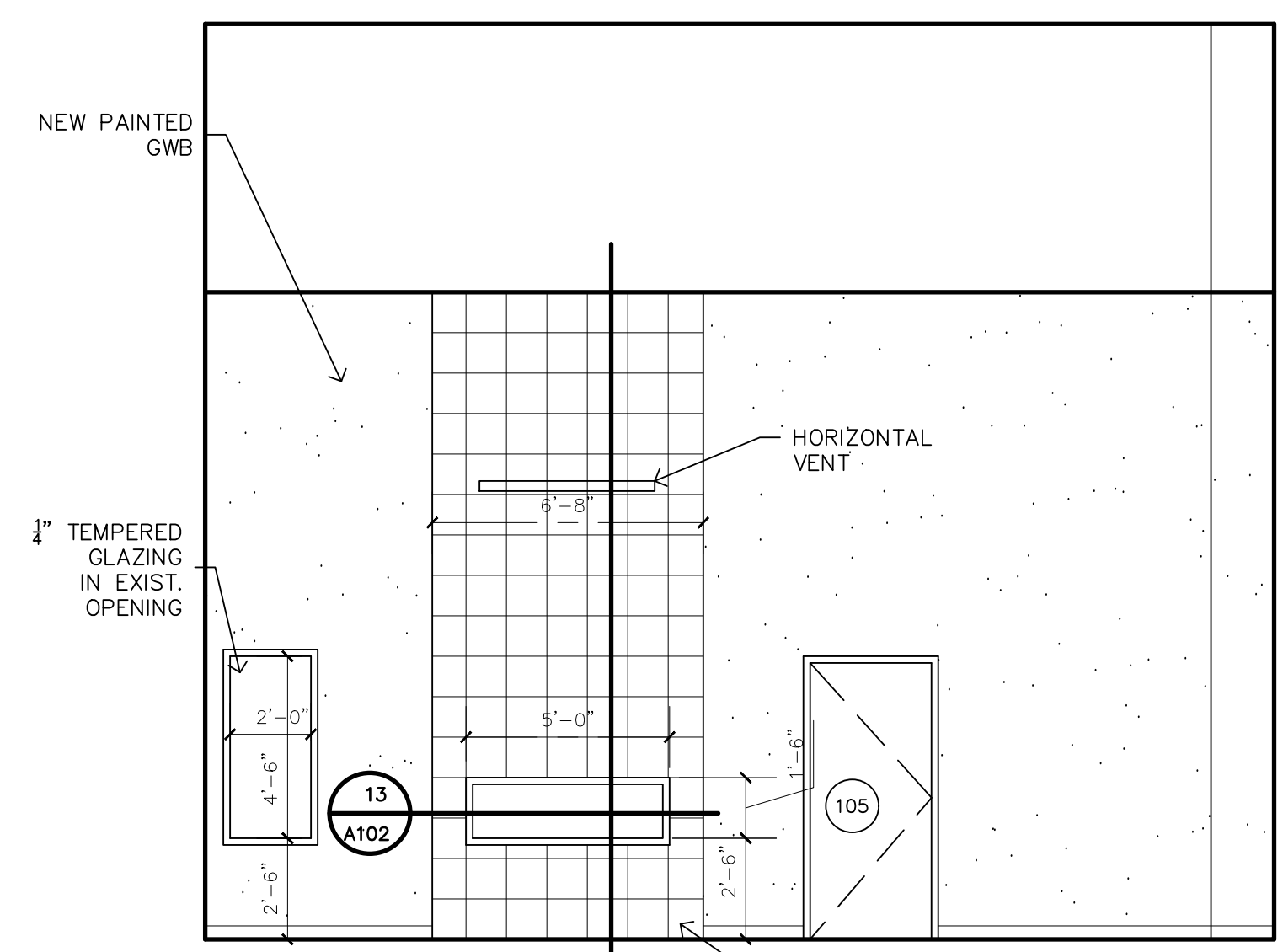
5 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



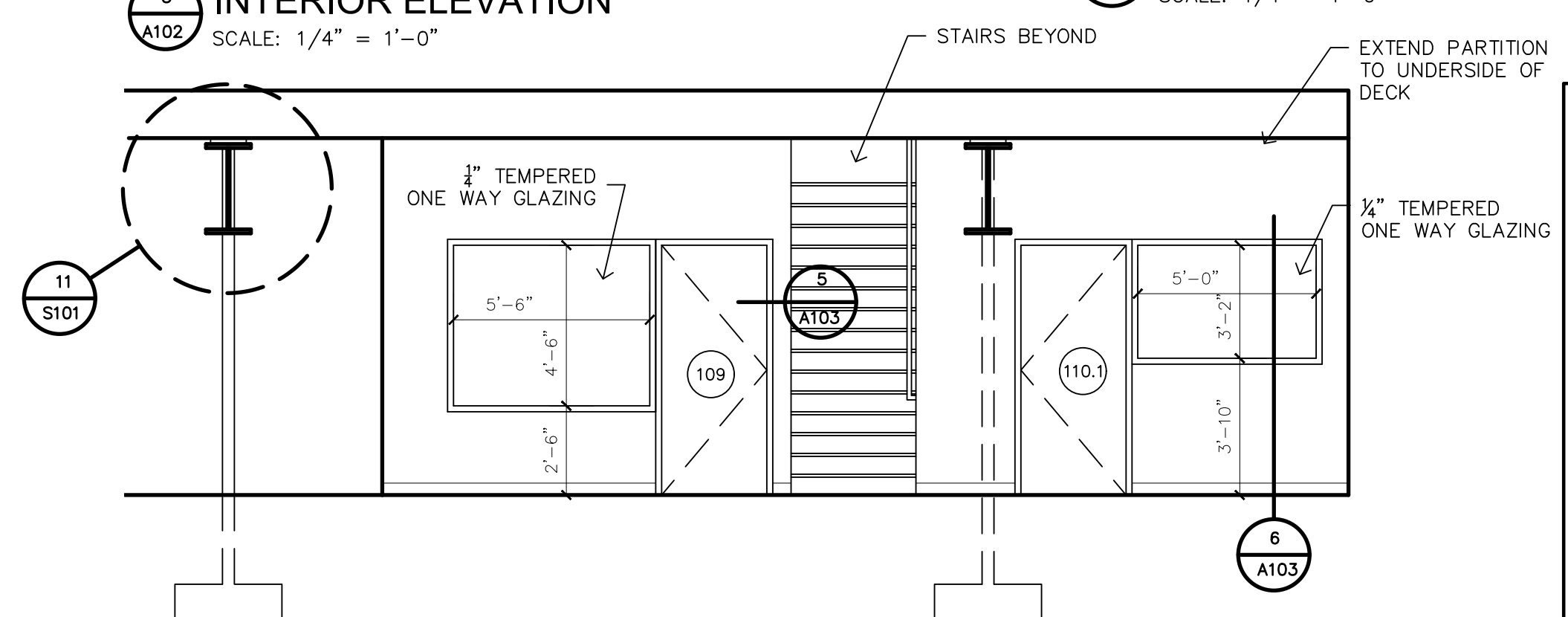
12 FIREPLACE SECTION
SCALE: 1/4" = 1'-0"



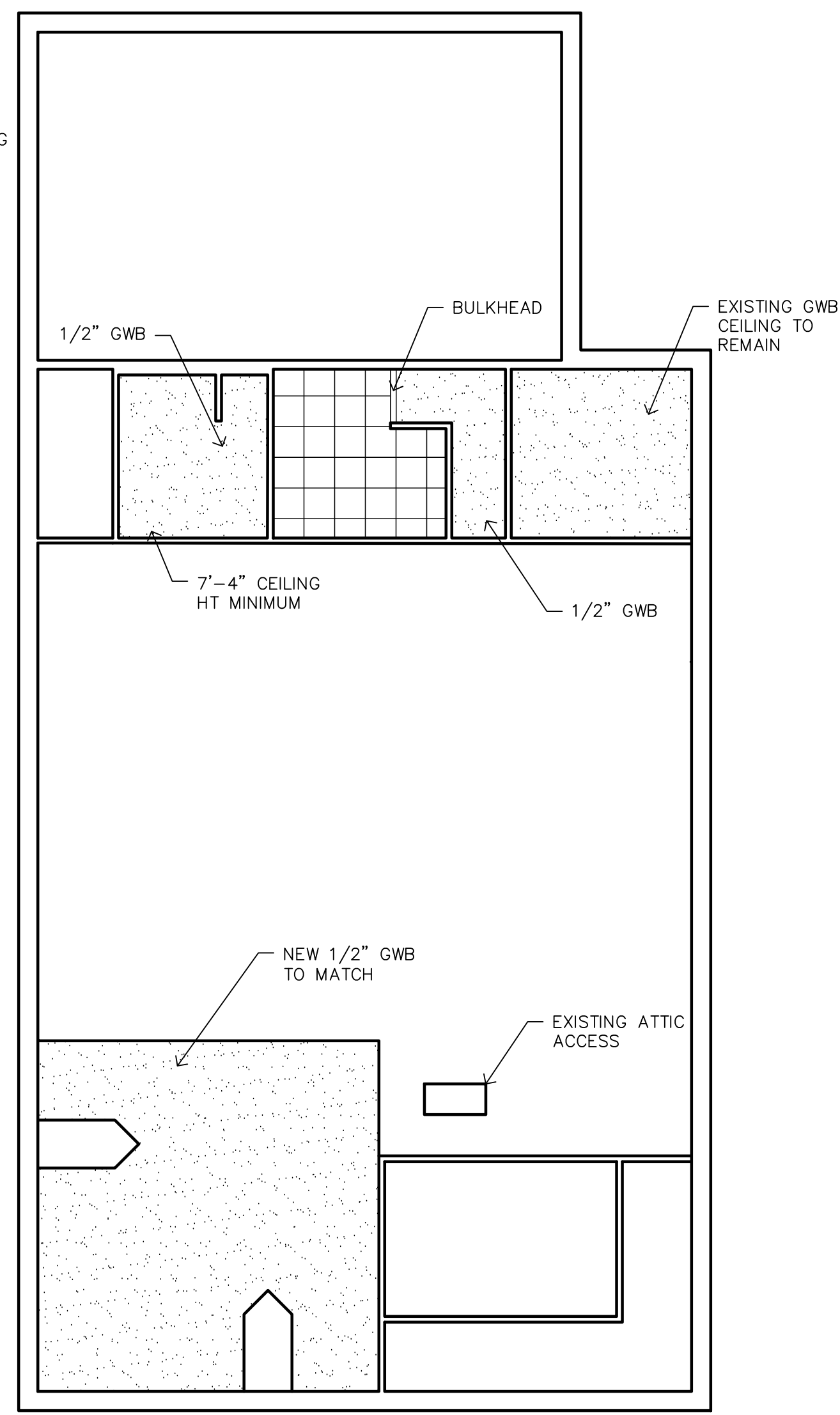
13 FIREPLACE PLAN
SCALE: 3/8" = 1'-0"



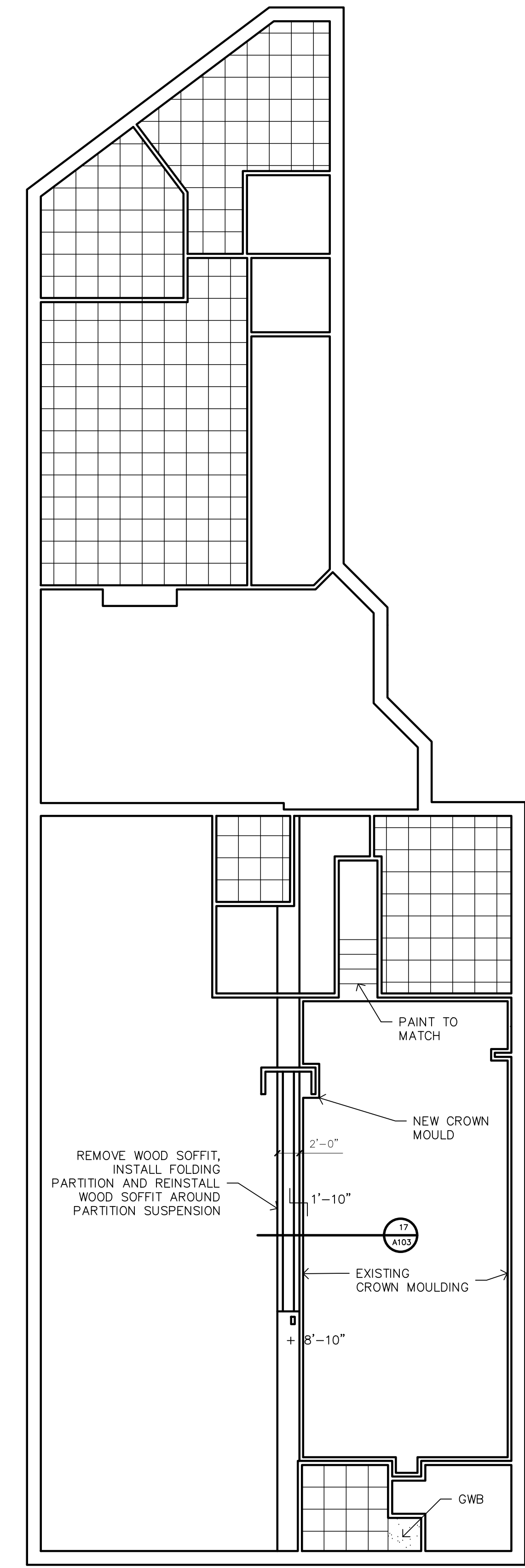
4 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



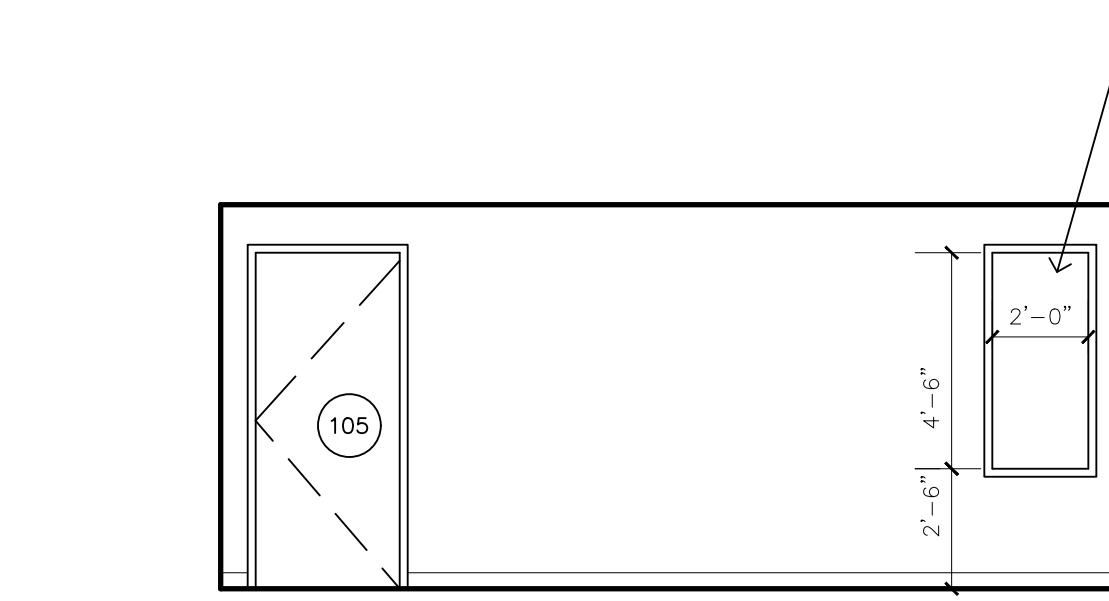
6 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



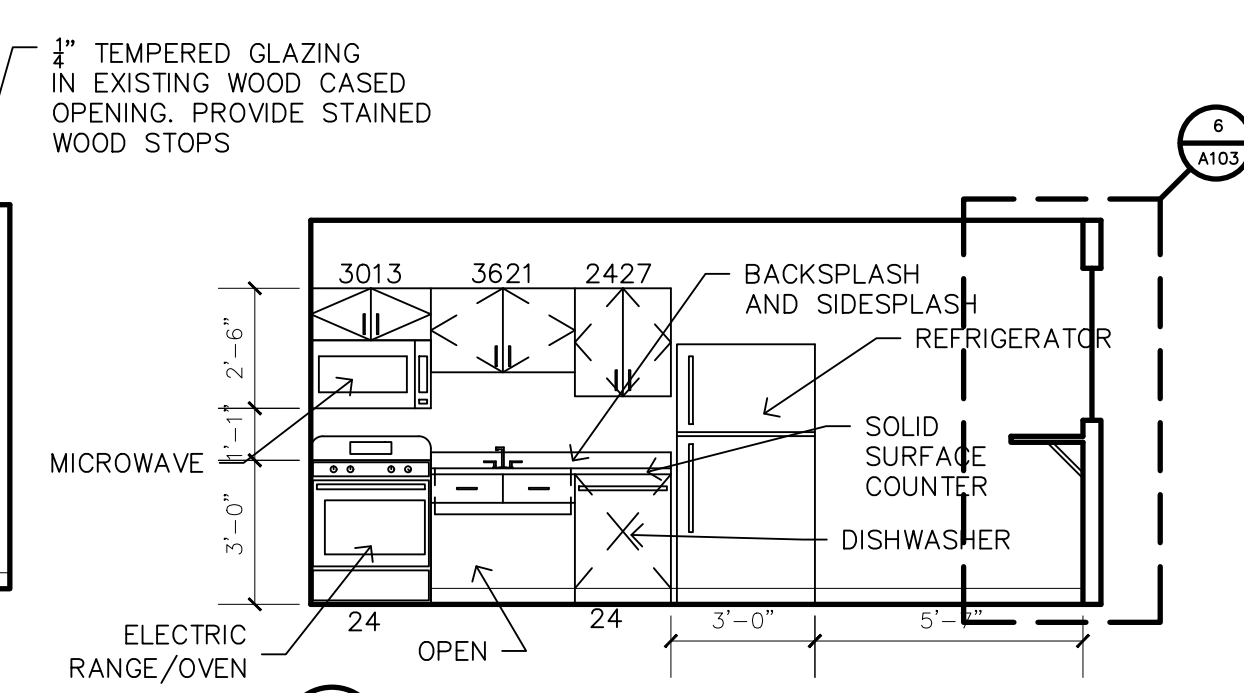
10 REF CEILING PLAN
SCALE: 1/8" = 1'-0"



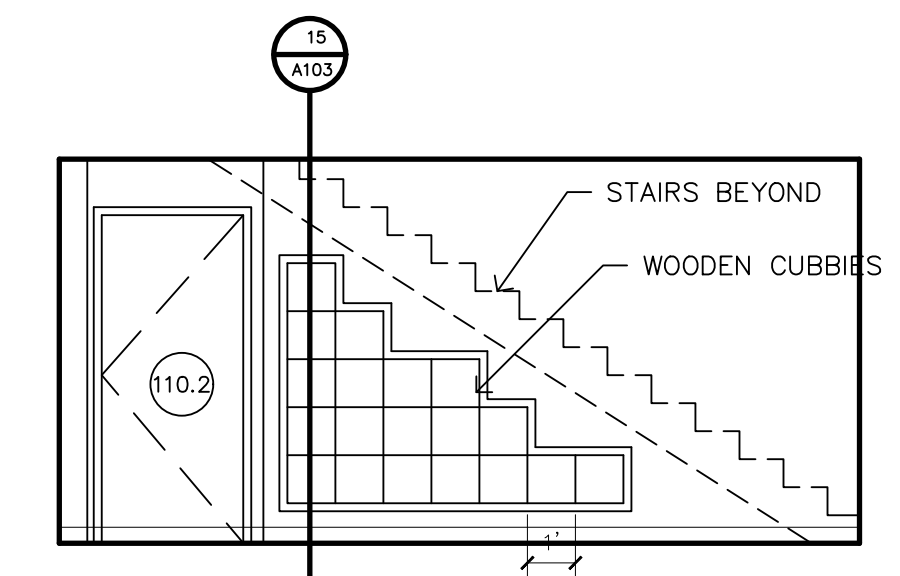
11 REF CEILING PLAN
SCALE: 1/8" = 1'-0"



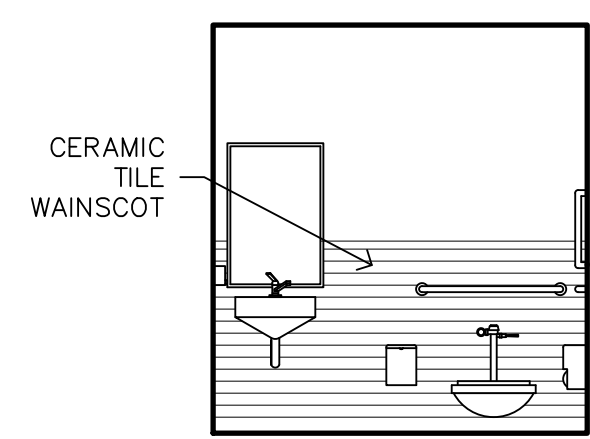
7 INTERIOR ELEVATION
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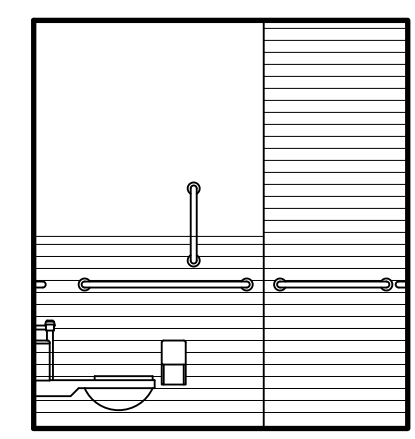
8 INTERIOR ELEVATION
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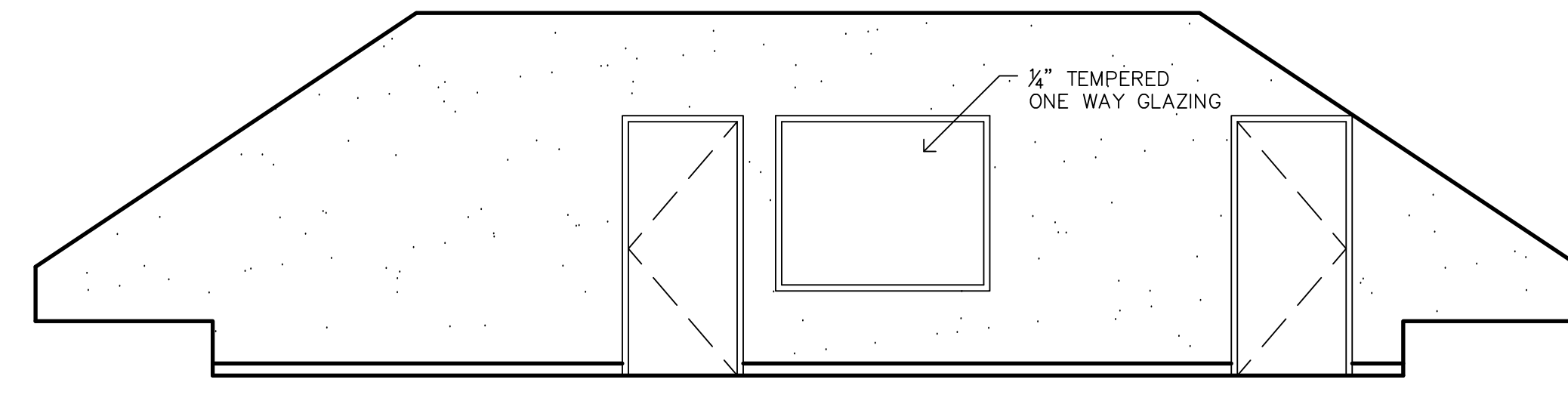
9 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



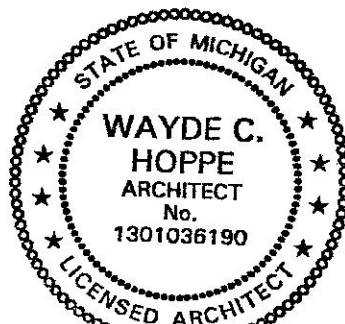
14 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



15 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



16 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



WAYDE C. HOPPE

HOPPE DESIGN, LLC
47032 MERRIDIE, BELLEVILLE, MI 48111
734-215-2492

REVISIONS

PROJECT: 2202
DATE: 7.15.22
DRAWN: JPH
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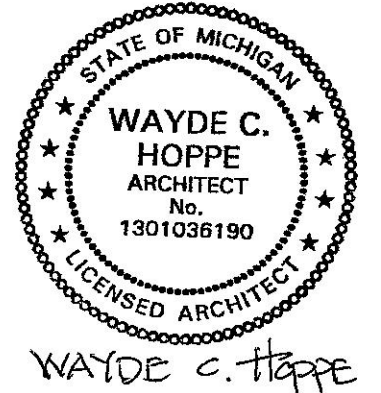
NOTES

1. PATCH AND PAINT ALL EXISTING DRYWALL DAMAGED BY CONSTRUCTION
2. MATCH CASING AND BASE PROFILE, SPECIES, COLOR AND FINISH

**REFLECTED CEILING,
AND INTERIOR
ELEVATIONS**

A102

VERIFY ALL DIMENSIONS IN FIELD

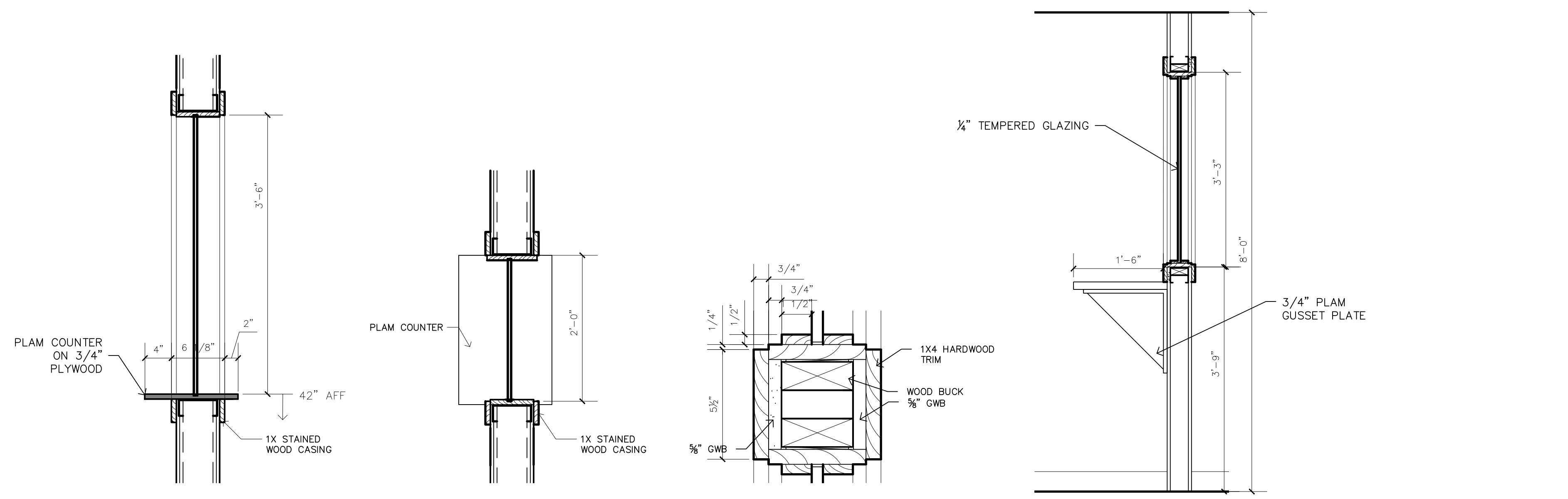


DEMOLITION KEYNOTES

1. REMOVE PARTITION
2. REMOVE DOOR, FRAME, AND HARDWARE, SALVAGE AND REUSE
3. REMOVE COUNTER AND MILLWORK AND SALVAGE
4. REMOVE DUCT ENCLOSURE, RE-ROUTE DUCT WORK
5. REMOVE EXTERIOR WINDOW AND FRAMING/MASONRY TO PROVIDE NEW DOOR OPENING
6. REMOVE WD. RAILING AND NEWEL POST
7. REMOVE WOOD ENCLOSURES AND TRIM

NOTES

1. TRIM, CASING, BASE, AND CABINETS SCHEDULED TO BE REMOVED ARE TO BE TURNED OVER TO OWNER.
2. SALVAGE ALL KITCHEN EQUIPMENT AND TURN OVER TO OWNER

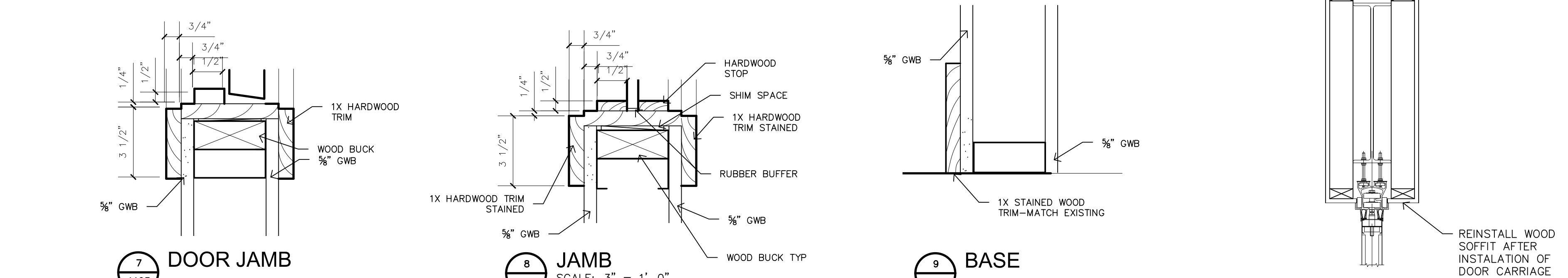


3 PASS THROUGH WINDOW SECTION
SCALE: 1" = 1'-0"

4 PASS THROUGH WINDOW PLAN
SCALE: 1" = 1'-0"

5 INTERMEDIATE
SCALE: 3" = 1'-0"

6 WORK COUNTER SECTION
SCALE: 3/4" = 1'-0"



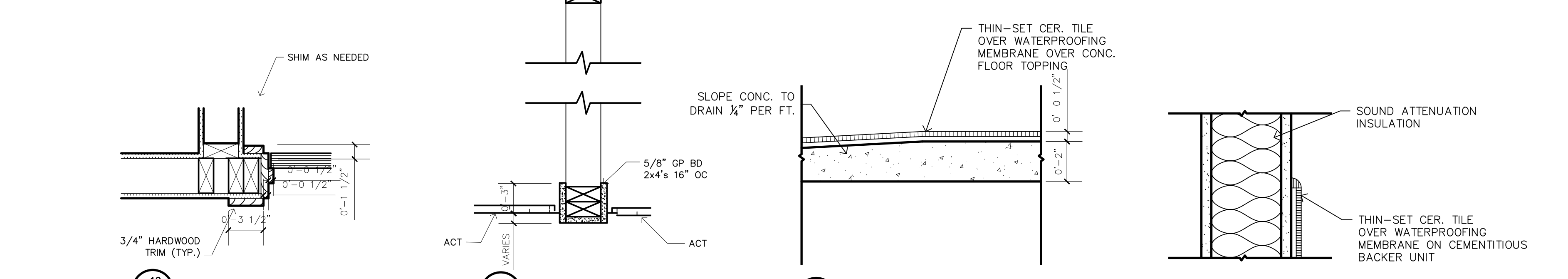
7 DOOR JAMB
SCALE: 3" = 1'-0"

8 JAMB
SCALE: 3" = 1'-0"

9 BASE
SCALE: 3" = 1'-0"

17 SECTION @ SOFFIT
SCALE: 3" = 1'-0"

MATCH SIZE, SPECIES, COLOR, AND FINISH OF EXIST. TRIM

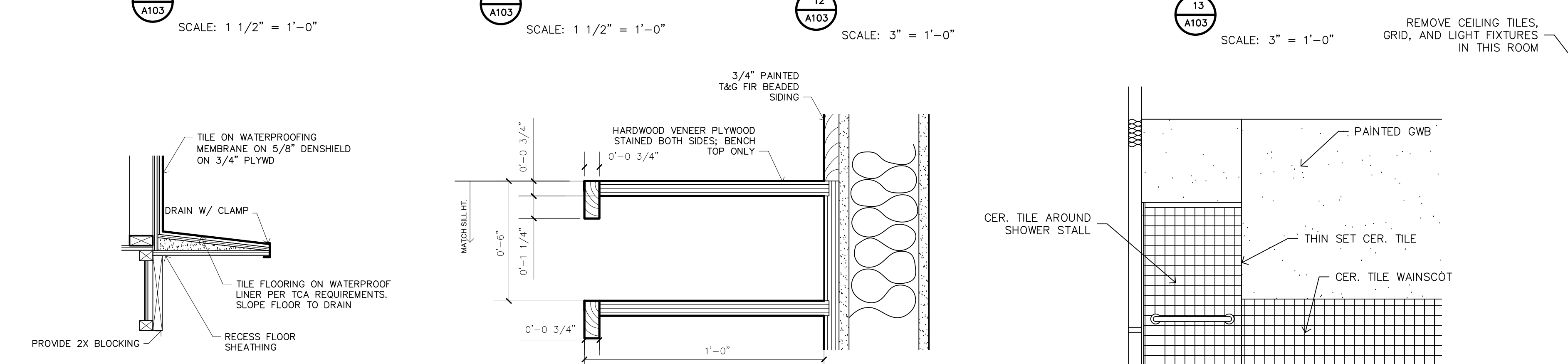


10
SCALE: 1 1/2" = 1'-0"

11
SCALE: 1 1/2" = 1'-0"

12
SCALE: 3" = 1'-0"

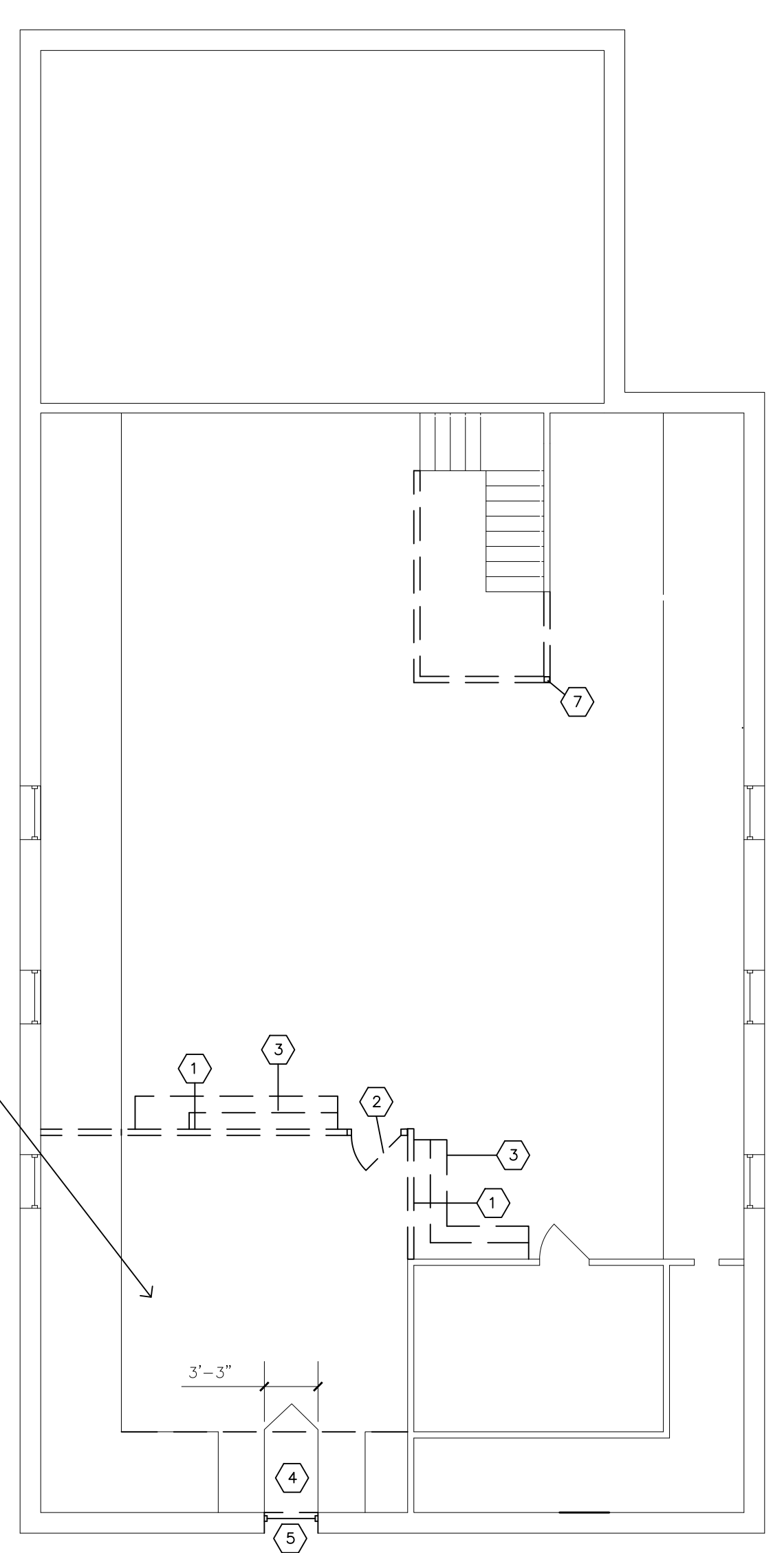
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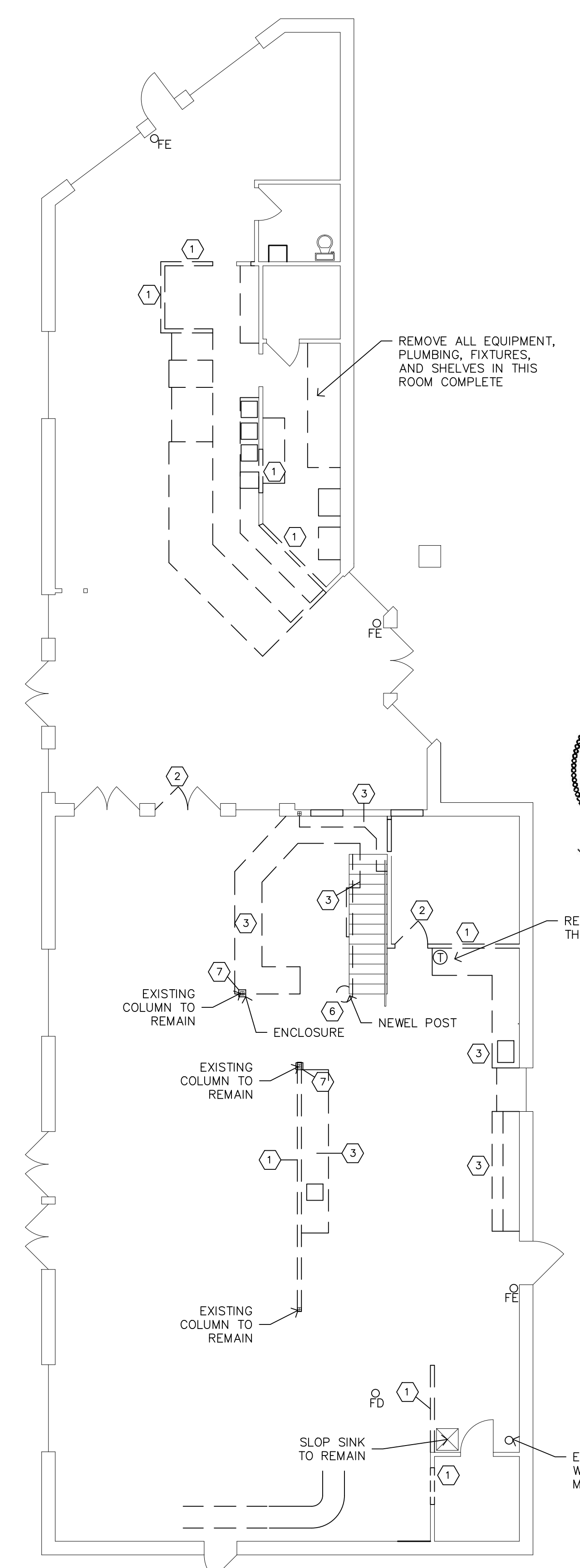
14 SECOND FLOOR SHOWER PAN
SCALE: 1" = 1'-0"

15 CUBBY DETAIL
SCALE: 3" = 1'-0"

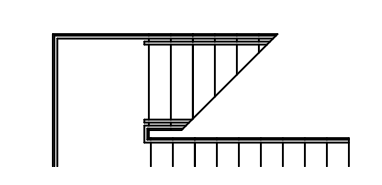
16 SHOWER SECTION
SCALE: 1/2"=1'-0"



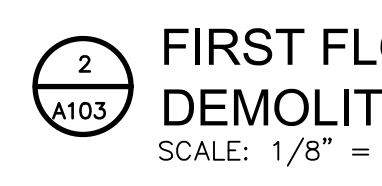
1 SECOND FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



2 FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



PROJECT NORTH



PROJECT NORTH

REVISIONS

PROJECT: 2202
DATE: 7.15.22
DRAWN: JPH
CHECKED: WCH

VERIFY ALL DIMENSIONS IN FIELD

DEMOLITION PLAN

A103

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LEGEND

- GATE VALVE
- GLOBE VALVE
- BALL VALVE
- CHECK VALVE
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- LUBRICATED PLUG VALVE
- BALL VALVE W/ MEMORY STOP
- CIRCUIT SETTER
- PRESSURE REDUCING VALVE
- PRESSURE TEMP. TEST PORT
- PRESSURE GAUGE
- THERMOMETER
- EXPANSION JOINT W/ GUIDES
- AIR VENT
- Y-STRAINER
- PIPE FLEXIBLE CONNECTOR
- CONN. TO EXIST.
- DUCT FLEXIBLE CONNECTOR
- EXIST. FIRE DAMPER
- NEW FIRE DAMPER
- EXIST. SMOKE DAMPER
- NEW SMOKE DAMPER
- EXIST. COMB. FIRE SMOKE DMPR
- NEW COMB. FIRE/SMOKE DMPR
- MARK CFM
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE

MECHANICAL NOTES

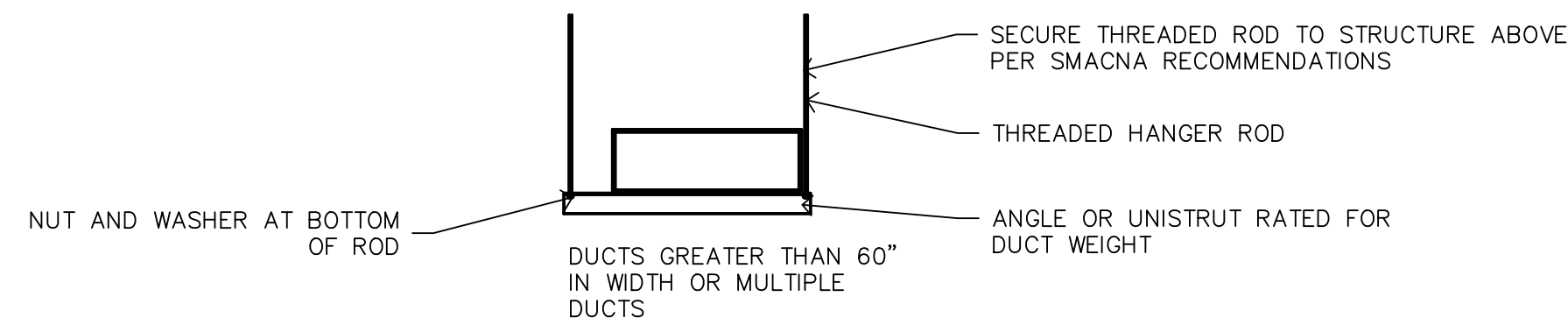
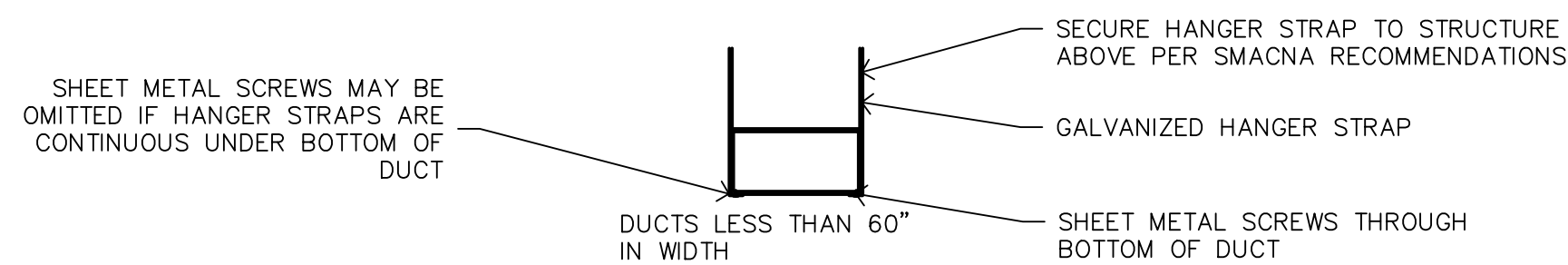
1. ALL WORK IS TO BE PROVIDED AND PERFORMED ACCORDING TO ALL STATE AND LOCAL CODES.
2. ALL EXHAUST OUTLETS AND OUTSIDE AIR INLETS SHALL BE A MINIMUM OF 15' APART.
3. EQUIPMENT NOISE SHALL NOT EXCEED 55 DECIBELS AT THE LOT LINE.
4. ALL DUCT WORK SHALL BE FABRICATED OF SHEET METAL AND IN ACCORDANCE WITH SMACNA STANDARDS.
5. ALL FLEX DUCT WORK SHALL BE THE INSULATED TYPE AND RUNS SHALL NOT EXCEED 6' MAXIMUM LENGTH. CONTRACTOR MAY USE FLEX DUCT TO CONNECT TO SUPPLY GRILLES.
6. PROVIDE MANUAL VOLUME DAMPER IN EACH BRANCH FOR BALANCING.
7. PROVIDE FIRE DAMPER WHERE THE DUCT PENETRATES THROUGH FIRE WALL.
8. RUN CONDENSATE LINE TO THE NEAREST FLOOR DRAIN.
9. CONTRACTOR TO FURNISH, LOCATE AND INSTALL THERMOSTAT FOR EACH ZONE.
10. INSTALL GAS PIPING, SIZES AS SHOWN.
11. EXISTING GAS PRESSURE TO BE VERIFIED BY THE CONTRACTOR AND SIZE GAS PIPING ACCORDINGLY.
12. DISCONNECT SWITCH SHALL BE PROVIDED WITH ALL UNITS.
13. PIPE SIZES ARE BASED ON 1/2" PRESSURE. CONTRACTOR TO FIELD VERIFY EXISTING GAS PRESSURE. VERIFY GAS PIPE SIZES, RESIZE IF NECESSARY.
14. CONTRACTOR TO PROVIDE GAS PRESSURE REGULATOR MAXITROL 325 SERIES FROM 1/2" DOWN TO 7" TO CONNECT GAS INLET OF HVAC UNITS OR AS RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT.
15. CONTRACTOR SHALL ADD CAPACITY REQUIRED FOR ANY APPLIANCES.
16. MECHANICAL CONTRACTOR TO SIZE ALL DUCTWORK AND EQUIPMENT RELATED TO NEW HVAC SYSTEM TO PROVIDE COMPLETE SYSTEM THAT IS IN COMPLIANCE WITH ALL CODES AND REGULATIONS.
17. MECHANICAL DRAWINGS ARE SCHEMATIC ONLY. HVAC CONTRACTOR IS RESPONSIBLE TO LOCATE PATH OF NEW DUCTWORK TO OPTIMIZE SUPPLY AND RETURN.
18. NEW OUTSIDE AIR DUCT UP WITH MANUAL BALANCE DAMPER TO NEW ROOF MOUNTED ROOF VENT INSTALLED A MINIMUM OF 10' FROM ROOF EDGE AND FROM ANY PLUMBING VENT.
19. FOOD PREPARATION EXHAUST SHALL COMPLY WITH THE WAYNE COUNTY DEPARTMENT OF ENVIRONMENT.
20. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE NEW ROOM TEMPERATURE SENSORS AND ALL NEW CONNECTIONS TO THE THERMOSTATS.
21. MAKE UP AIR UNIT TO BE INSTALLED PER NFPA 96. PROVIDE A MINIMUM OF 10' BETWEEN SUPPLY AIR INTAKE AND EXHAUST DISCHARGE. EXHAUST MUST BE A MINIMUM OF 24" ABOVE THE ROOF DECK.
22. PROVIDE DUCT DETECTORS AS REQUIRED BY CODE

EXHAUST FAN SCHEDULE							
TYPE	MANUFACTURER	CATALOG NO.	CFM	EST E.S.P.	VOLTS/ PHASE	MOTOR	ACCESSORIES
EF-1	COOK	GC144	75	0.5	120/1	98W	DM, GBD, CG, RC, HK
CG	WHITE ALUMINUM CEILING GRILLE		GK	GREASE TERMINATION KIT			
DM	DISCONNECT MEANS		HB	HINGED BASE			
GBD	GRAVITY BACKDRAFT DAMPER		RC	18" INSULATED ROOF CURB			
VSC	VARIABLE SPEED CONTROLLER		HK	HANGING KIT WITH VIBRATION INSULATOR			

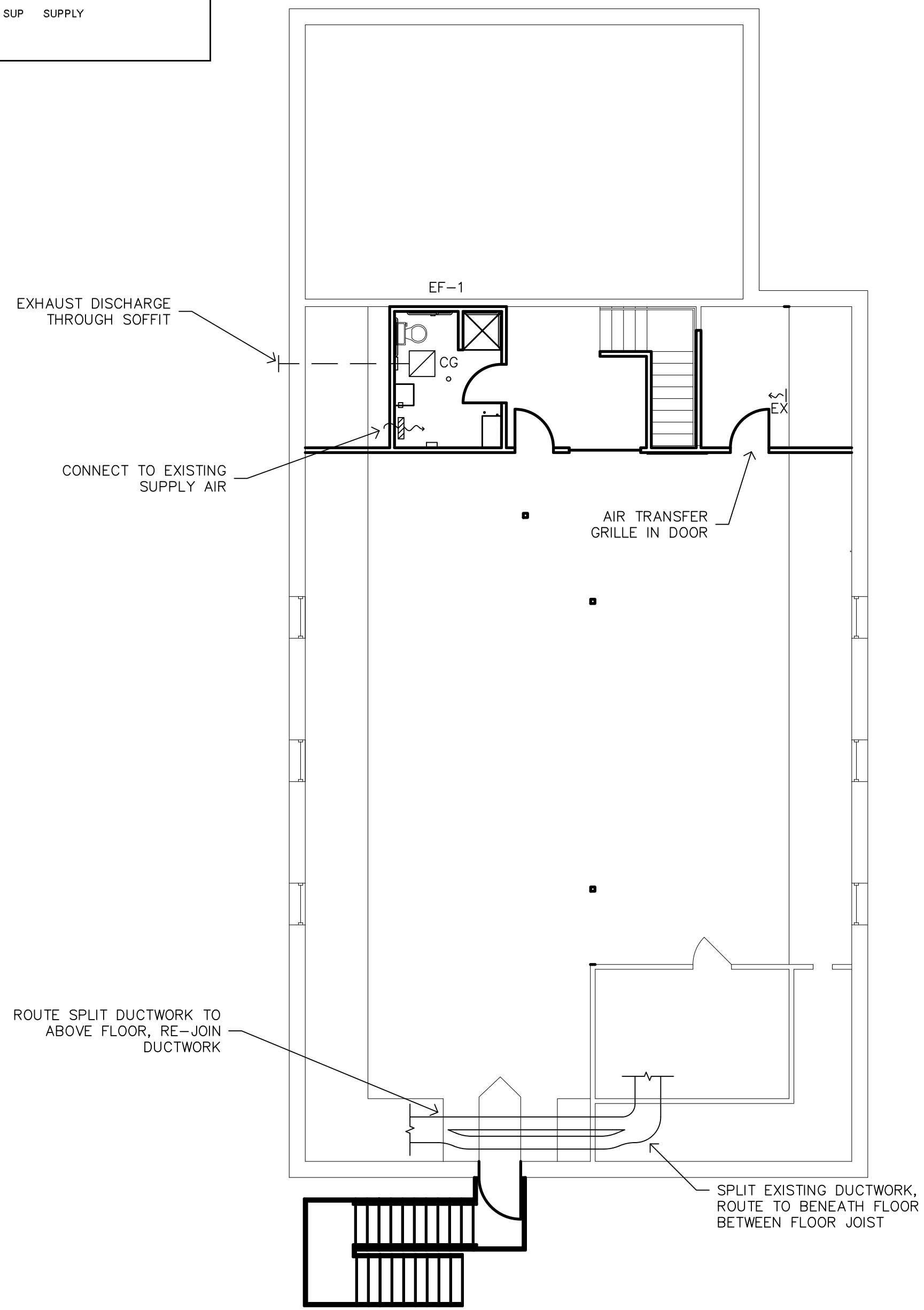
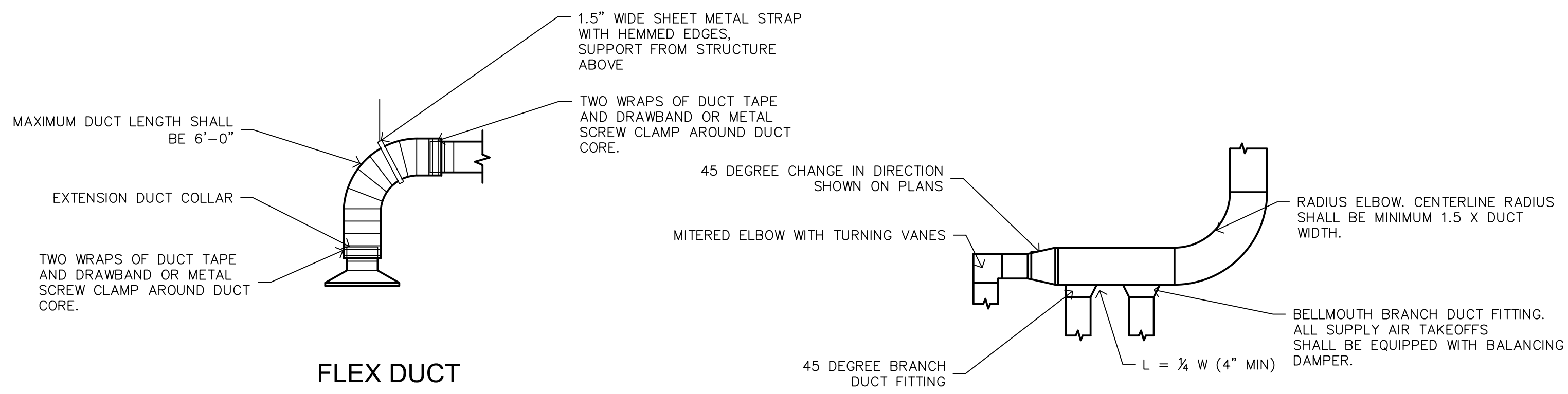
GRILLES, REGISTERS AND DIFFUSERS SCHEDULE										
TYPE	MANUFACTURER	CATALOG NO.	APP	FINISH	FRAME TYPE	VOLUME DAMPER	MAX NC (DB)	MIN THROW (FT)	MAX THROW (FT)	MAX PRESS. DROP
A	TITUS		SUP	WHITE	T-BAR/ FLANGE	YES	30	8	24	0.1
B	TITUS		RET	WHITE	T-BAR/ FLANGE	NO	30	-	-	0.1
C	TITUS		SUP	WHITE	FLANGE	NO	30	23	60	0.1

EXH EXHAUST
1 THROWS ARE BASED ON 50 FEET PER MINUTE VELOCITY
2 OPPOSED BLADE DAMPERS SHALL BE PROVIDED ON ALL DIFFUSERS REQUIRING BOLUME DAMPERS
3 PROVIDE T-BAR OR FLANGE FRAME AS NOTED BY "T" OR "F" DESIGNATION IN DIFFUSER TAG ON PLANS

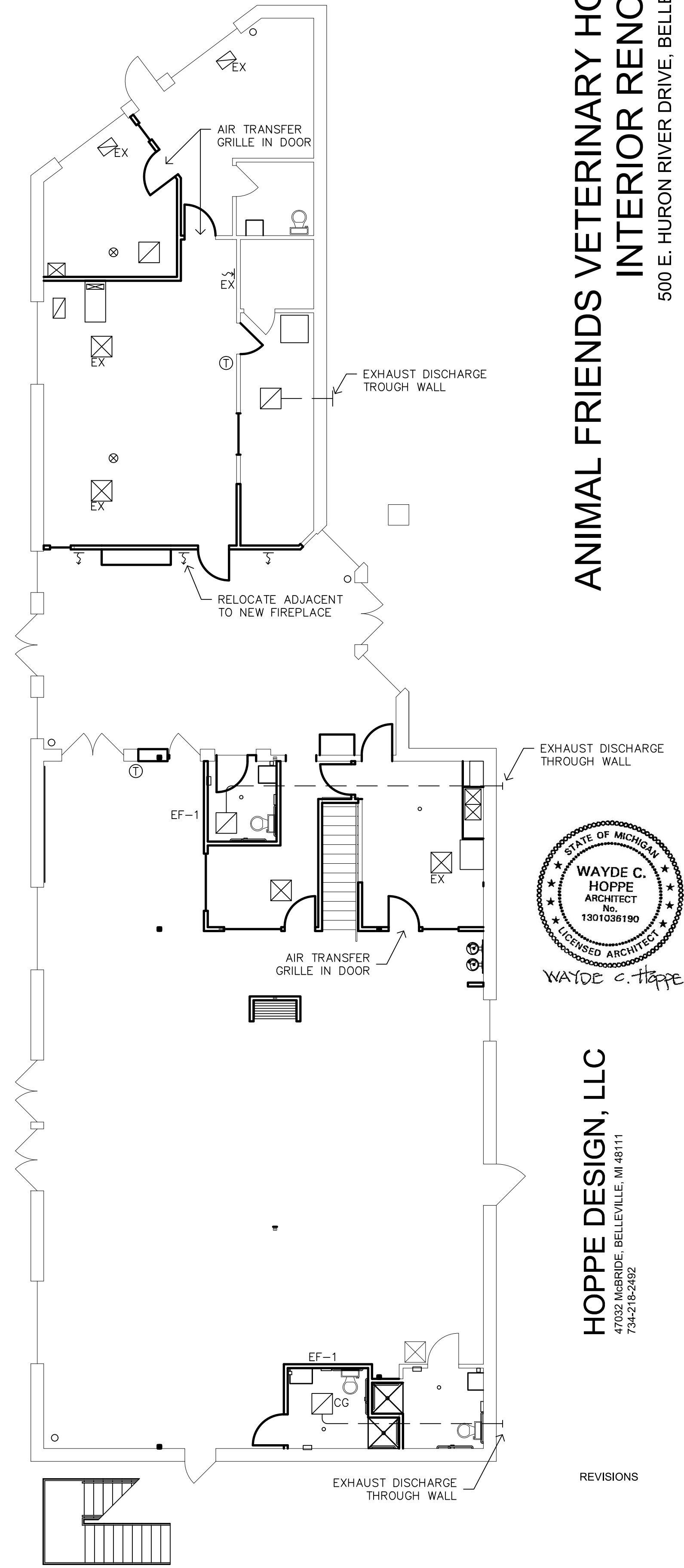
RET RETURN
SUP SUPPLY



DUCTWORK SUPPORT



SECOND FLOOR MECHANICAL PLAN
SCALE: 1/8" = 1'-0"
PROJECT NORTH

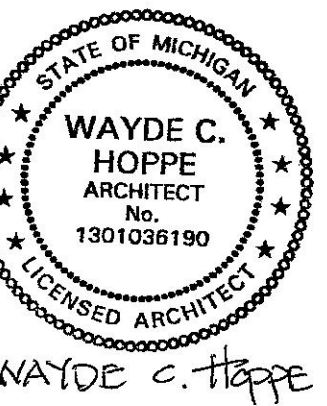


FIRST FLOOR MECHANICAL PLAN
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HVAC PLAN

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INTERIOR RENOVATION**
500 E. HURON RIVER DRIVE, BELLEVILLE, MI 48111



HOPPE DESIGN, LLC
47032 MERIDIE, BELLEVILLE, MI 48111
734-215-2492

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VERIFY ALL DIMENSIONS IN FIELD

LIGHT FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS	NO-WATTS	MOUNTED	REMARKS
A	BY OWNER	SELECTION BY OWNER	LED		PENDANT	3500K 80 CRI
B	LITHONIA	EPANL 2X2 3400LMHE 80CRI 35K MIN1	LED		SUSPENDED, LAY IN SURFACE	POLYCARBONATE LENS
C	LITHONIA	MDP BNP (SHADE SELECTION BY OWNER)	LED		132" PENDANT	3500K 80 CRI
D	SHIPLIGHTS	H-12 MILK BRASS INTERIOR NAUTICAL	LED		SCONCE	8" MOUNTING HEIGHT
E	JUNO	R600L NFL BL TLENS4 NFLD	LED		TRACK	35K
F	LITHONIA	LDN6 35 L06 WR LD MVOLT	LED		RECESSED	
EM	SURE LIGHTS	APEL	LED		WALL/CEILING	
XEM	SURE LIGHTS	APCH7R W/ APWR REMOTE HEAD	LED		WALL/CEILING	

VERIFY FIXTURE SELECTIONS WITH OWNER

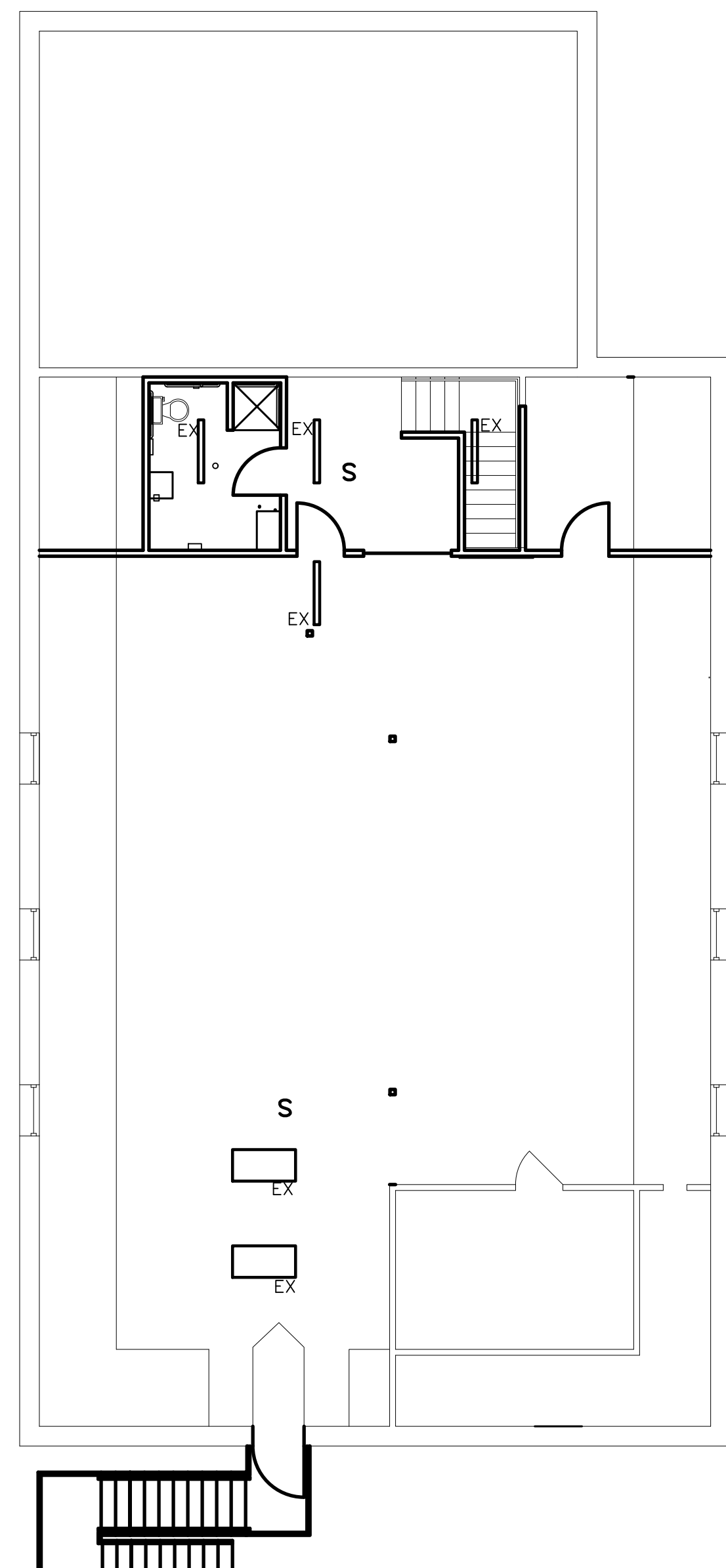
CEILING FAN TO BE SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR

LEGEND

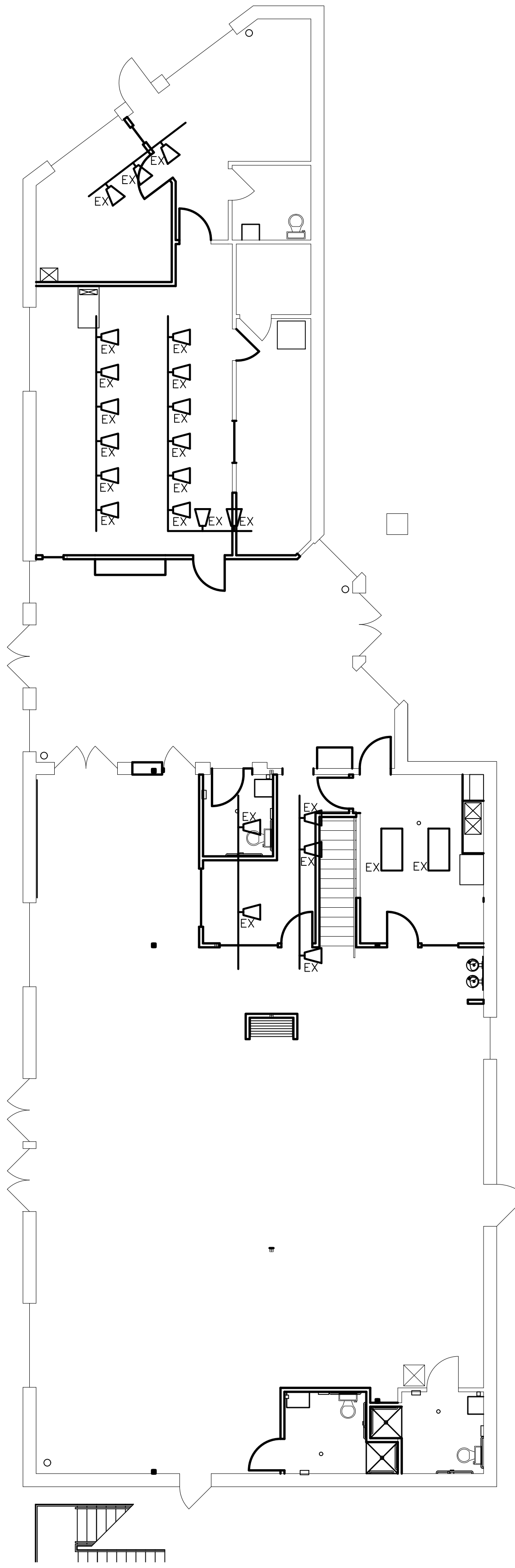
- SWITCH ON RHEOSTAT
- THREE WAY SWITCH
- SWITCH WITH PILOT
- SWITCH
- SPECIAL OUTLET
- DUPLEX OUTLET
- QUAD OUTLET
- WEATHERPROOF OUTLET
- GROUND FAULT INTERRUPTER
- TELEPHONE/ COMPUTER
- SMOKE DETECTOR
- TELEVISION/ CABLE
- CEILING MOUNTED LIGHT FIXTURE
- CEILING MOUNTED LIGHT FIXTURE RECESSED
- WALL MOUNTED LIGHT FIXTURE
- CEILING FAN/ LIGHT
- SCONCE
- MOTOR, ONE PHASE
- GROUND MNTD EXT. LIGHTING
- 2x4 LAY IN LIGHT FIXTURE
- 1 x 4 LIGHT FIXTURE
- PENDANT MOUNTED OVERSIZED FIXTURE
- EXIT SIGN
- EXIT SIGN/ EMERGENCY LIGHT
- FIRE ALARM PULL STATION
- HORN/ STROBE
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- RATE OF RISE HEAT DETECTOR
- DISCONNECT SWITCH
- DISCONNECT SWITCH WITH FUSE
- AUDIO JUNCTION BOX—PRE-WIRE PER DIRECTION OF OWNER

ELECTRICAL KEYNOTES

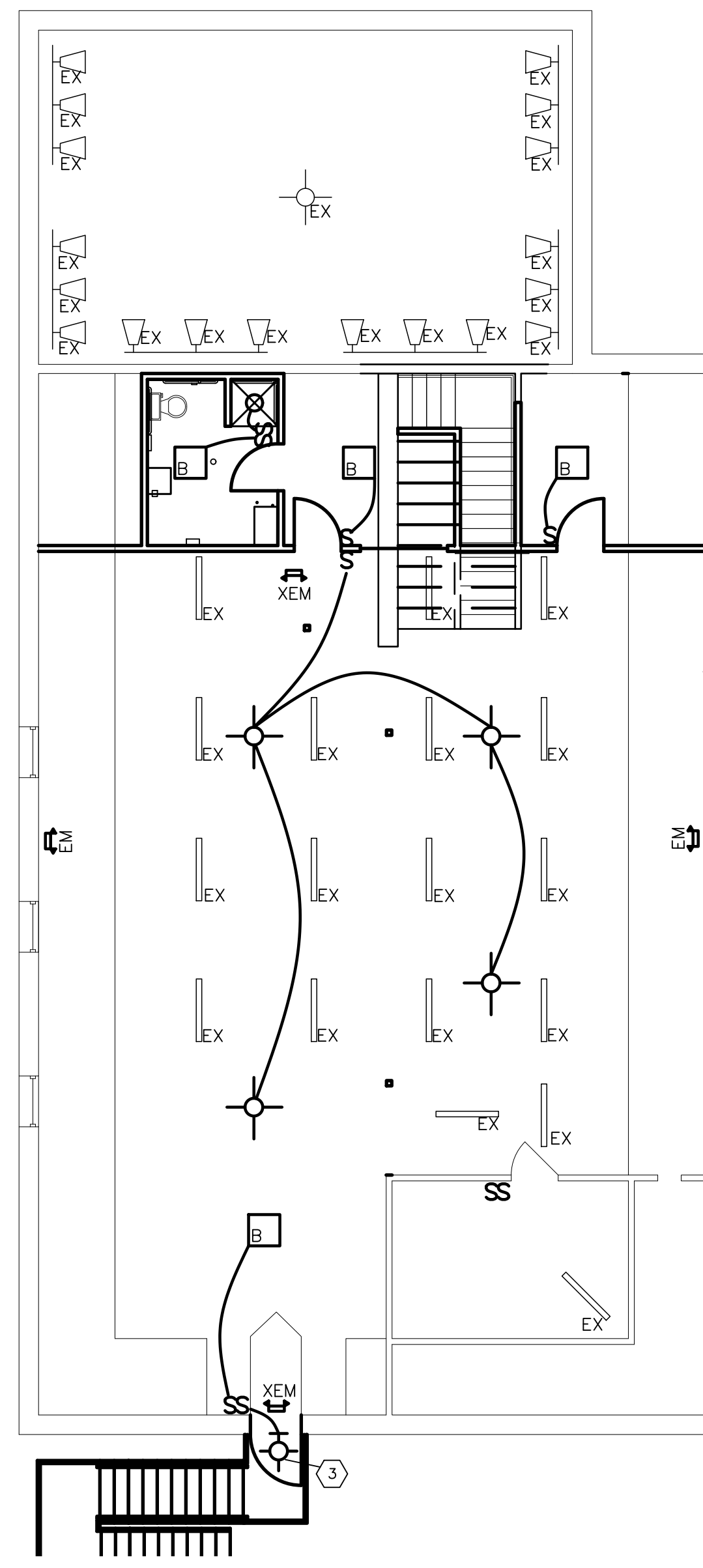
1. OCCUPANCY SENSOR EQUAL TO WATTSTOPPER ST-200
2. EXHAUST FAN TO BE CONTROLLED WITH LIGHTS BY OCCUPANCY SENSOR.
3. INSTALL REMOTE EMERGENCY FIXTURE ABOVE DOOR.



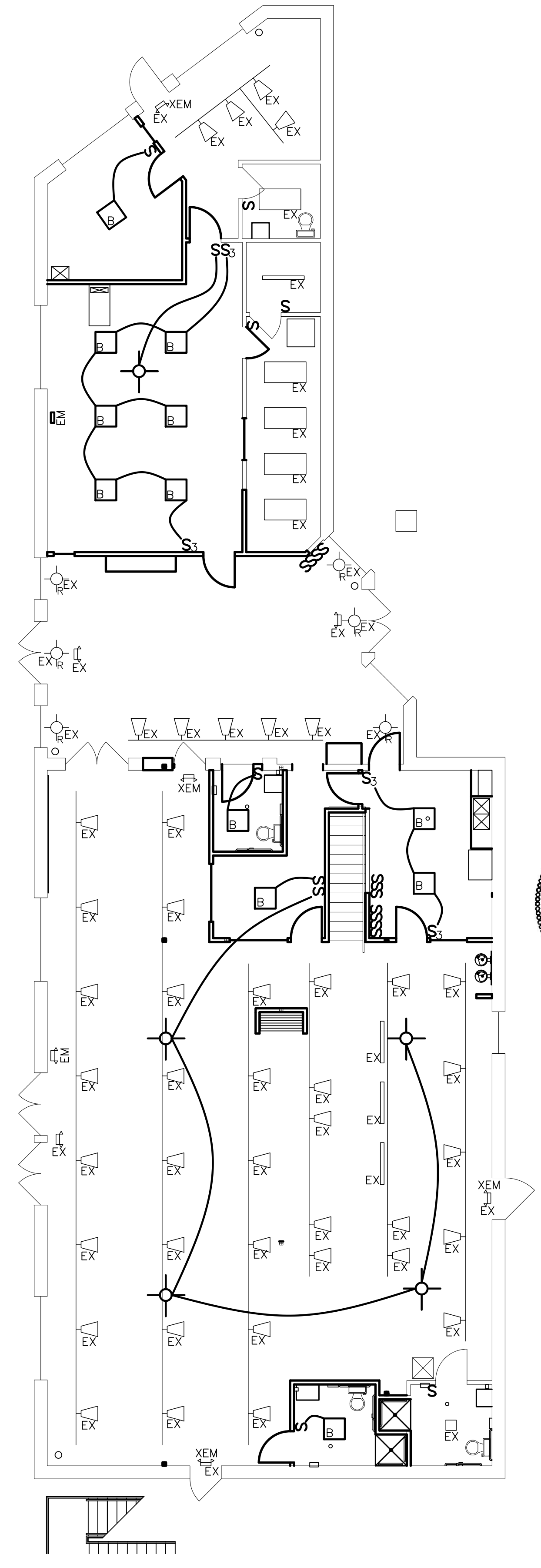
SECOND FLOOR LIGHTING DEMOLITION PLAN
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SECOND FLOOR LIGHTING PLAN
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FIRST FLOOR LIGHTING PLAN
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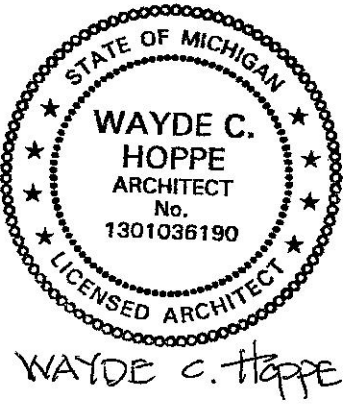
ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE N.E.C., COUNTY AND LOCAL CODES, ORDINANCES, AND REGULATIONS INCLUDING MIOSHA.
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3. THE SECONDARY UNDERGROUND CONDUIT AND WIRE SHALL MEET THE REQUIREMENTS OF THE ELECTRIC UTILITY COMPANY.
4. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A 1/4" DIA. POLYPROPYLENE FISH LINE.
5. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED 24" MINIMUM BELOW GRADE (UNLESS OTHERWISE SHOWN ON PLAN).
6. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL, INSTALLED WITH WATERTIGHT CONDUIT FITTINGS. EXPANSION FITTINGS SHALL BE PROVIDED AT ALL TRANSITIONS FROM UNDERGROUND TO EXPOSED CONDUIT.
8. ALL THREADED ELECTRICAL EQUIPMENT (CONDUIT, FITTINGS, BOLTS, SCREWS, ETC.) INSTALLED AT EXTERIOR SHALL BE COATED WITH ANTI-SEIZE COMPOUND PRIOR TO INSTALLATION.
9. ALL WEATHERPROOF (W.P.) DUPLEX RECEPTACLES SHALL BE INSTALLED SUCH THAT COVER DOORS OPEN UPWARD.
10. HAND DIG WHERE REQUIRED TO LOCATE EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW UNDERGROUND CONDUITS FOR POWER AND LIGHTING.
11. PROVIDE A GREEN GROUND CONDUCTOR IN ALL SYSTEM CONDUITS, EXCEPT INSTRUMENT SIGNAL AND ALARM CONDUITS, INCLUDING BRANCH CIRCUIT CONDUITS FOR LIGHTING AND RECEPTACLES. GROUND CONDUCTOR SIZING SHALL BE PER N.E.C. TABLE 250.122 (MINIMUM) WHERE NOT SIZED ON THE DRAWINGS.
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NOTE

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3. PROVIDE POWER TO EXHAUST FANS

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HOPPE DESIGN, LLC
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VERIFY ALL DIMENSIONS IN FIELD

LIGHTING PLAN

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VERIFY FIXTURE SELECTIONS WITH OWNER

LEGEND

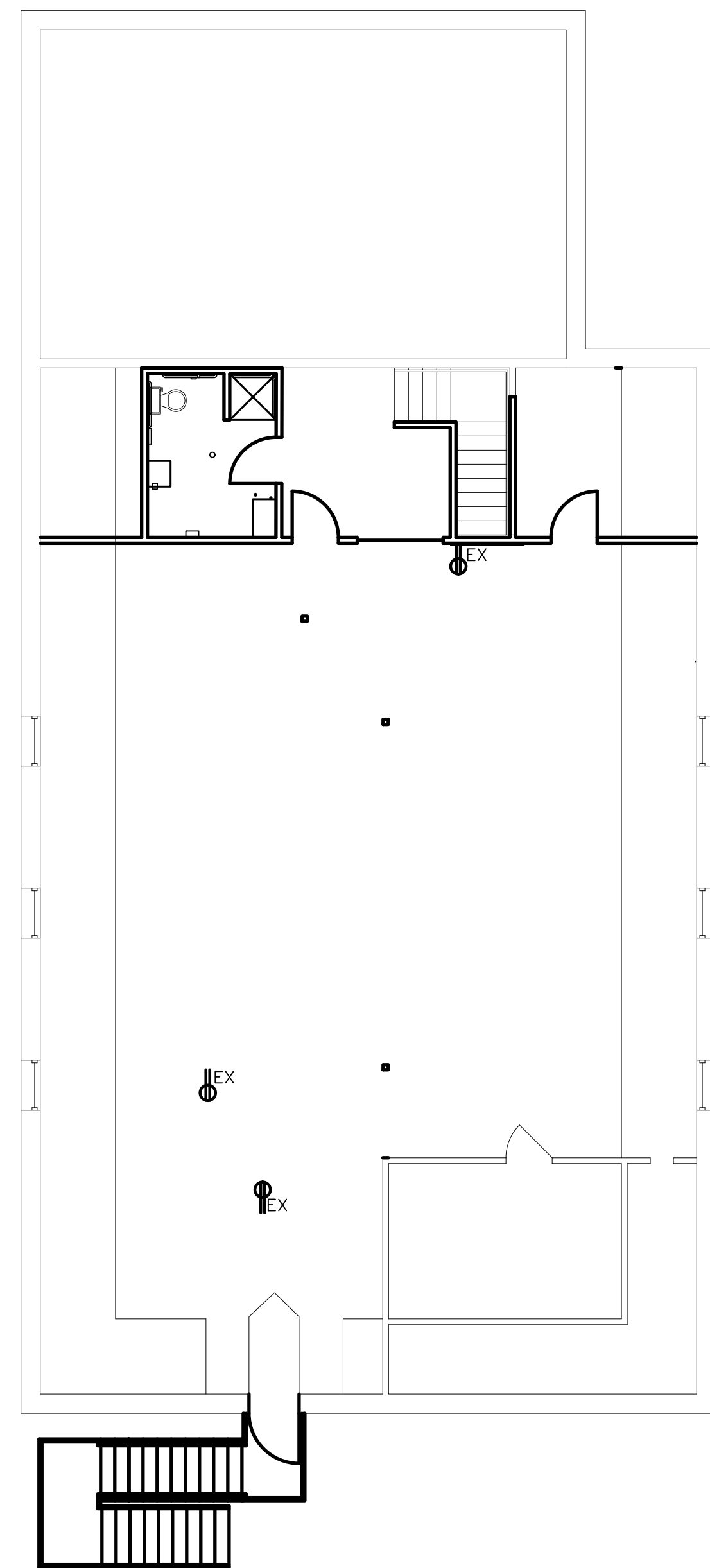
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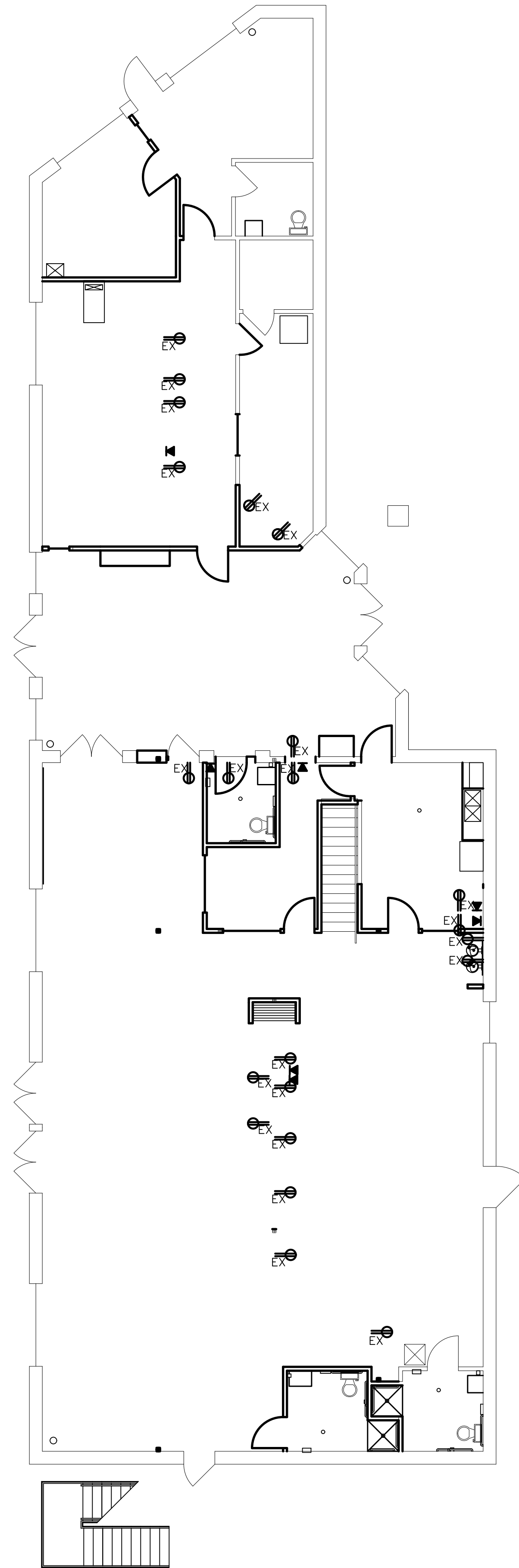
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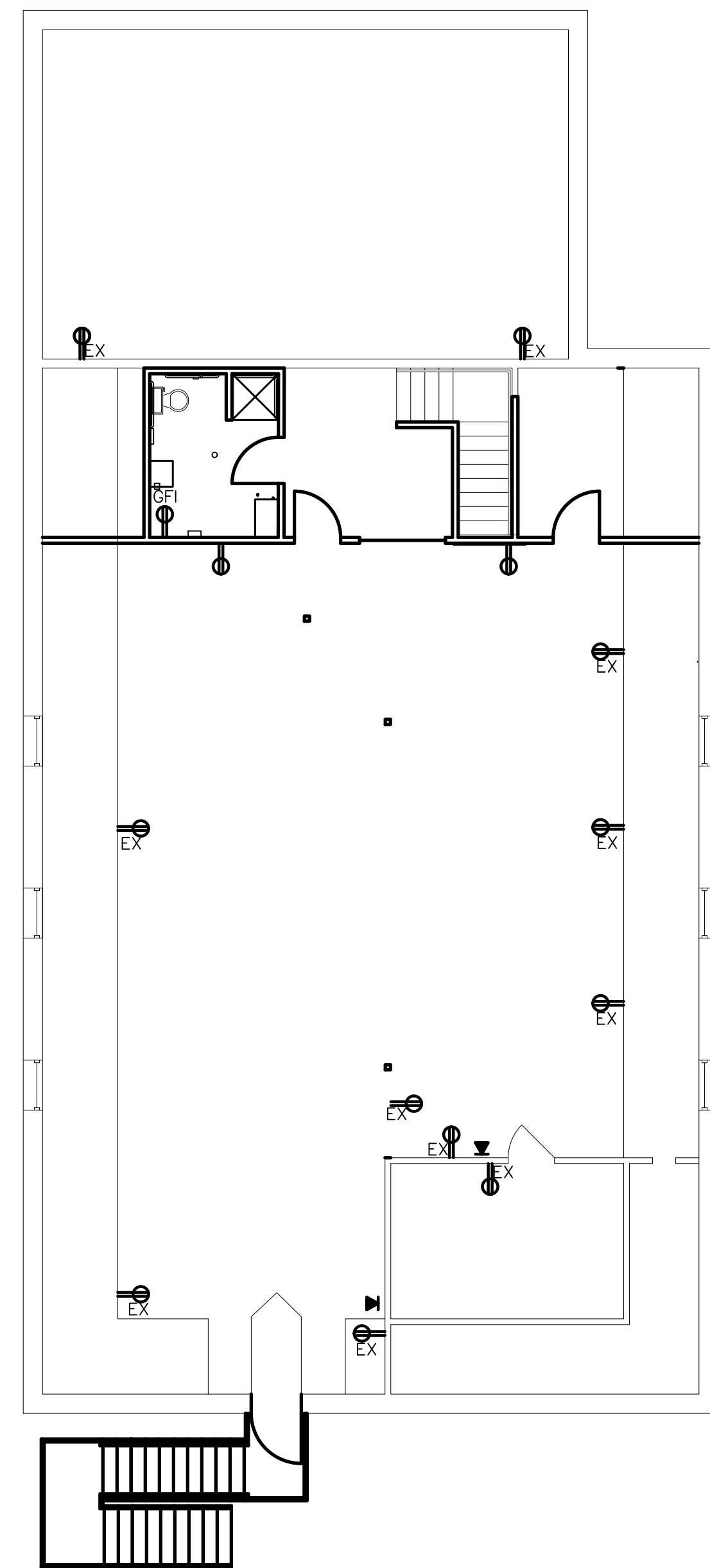
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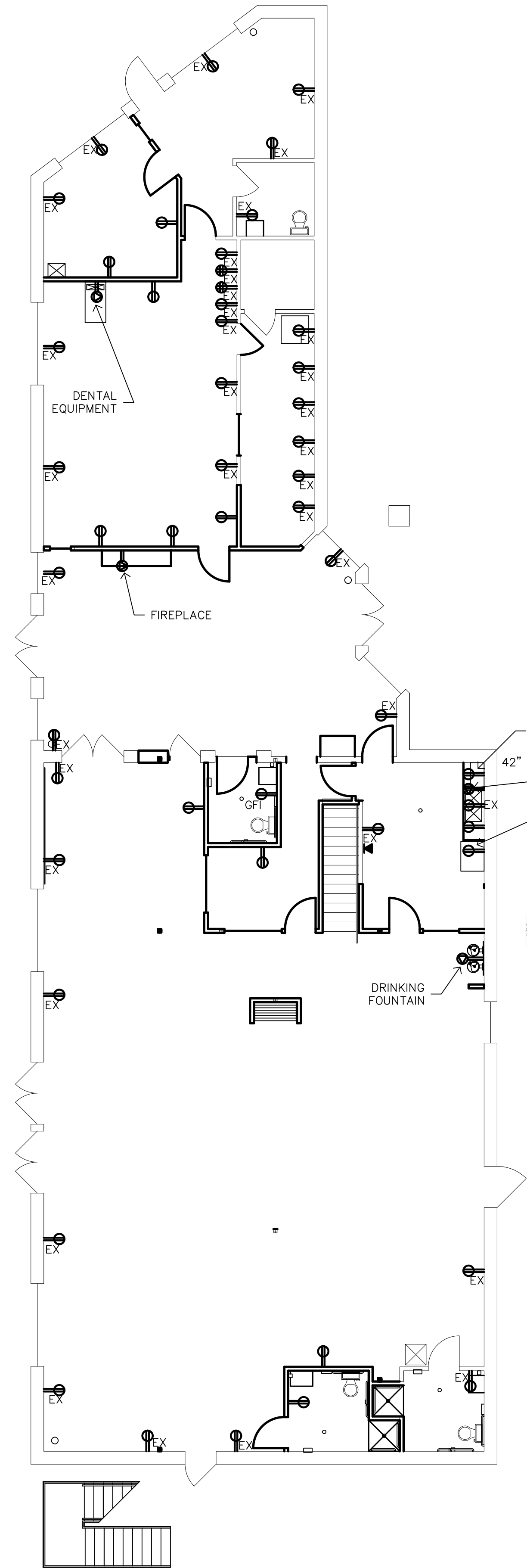
1 SECOND FLOOR POWER DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
PROJECT NORTH



2 FIRST FLOOR POWER DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
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3 SECOND FLOOR POWER PLAN
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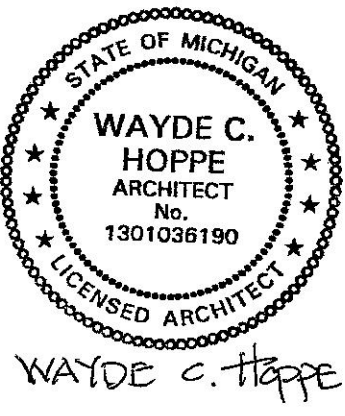


4 FIRST FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"
PROJECT NORTH

POWER PLAN

NOTE

1. ALL EXISTING AND NEW DUPLEX OUTLETS TO BE ON GFI PROTECTED CIRCUIT.
2. VERIFY HEIGHT OF ALL TV AND SIGNAGE JUNCTION BOXES AND POWER WITH CLIENT
3. PROVIDE POWER TO RTU'S, ROOFTOP COOLER COMPRESSOR, AND EXHAUST FANS



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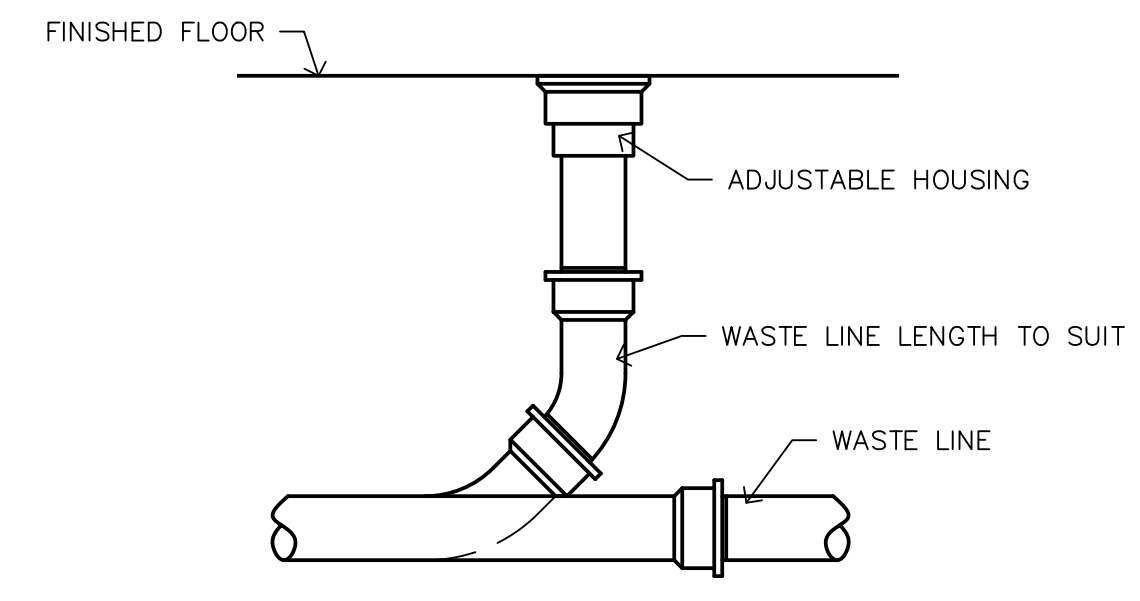
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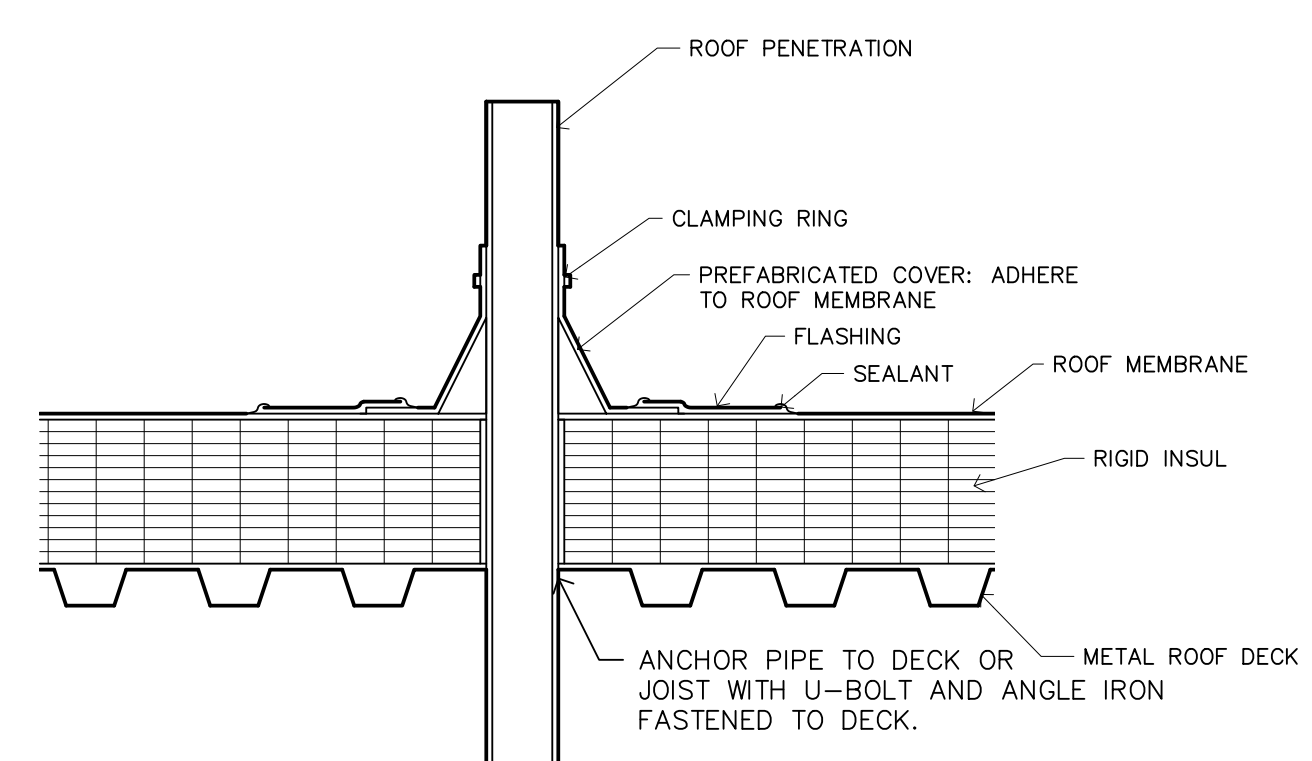
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PLUMBING FIXTURE SCHEDULE													
TAG	ITEM	MFR	MODEL NAME AND DESCRIPTION	FITTINGS	FLOW	WSFU'S	DFU'S	MIN PIPE CONNECTION SIZES				REMARKS	COLOR
						C	H	W	V	CW	HW		
WC1	WATER CLOSET	KOHLER	K-84325-L WALL HUNG ELONGATED WATER CLOSET WITH EXPOSED BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WHITE OPEN FRONT TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.	K-7531 EXPOSED HYBRID TOUCHLESS BATTERY POWERED FLUSH VALVE	1.28 GPF	10	4	4"	2"	1"	-	BARRIER FREE COMPLIANT; EXPOSED TOP SPUD CONNECTION; ZURN Z1201 SERIES CLOSET CARRIER, 500 LB SEAT CAPACITY	WHITE
LAV-2	LAVATORY	KOHLER	K-1721 WALL HUNG SINK WITH GRID DRAIN; P-TRAP, STOP SUPPLY KIT; TRAP WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVE	K-13460 TOUCHLESS FAUCET, CR-19 STOPS AND SUPPLES, OFFSET GRID DRAIN, 17 GA. C.P. P-TRAP	0.5 GPM	1.5	1.5	1	1 1/2"	1 1/2"	1/2"	BARRIER FREE COMPLIANT; BARRIER FREE TRAP, TRUEBRO LAV GUARD HW INSUL. KIT; SOLID BRASS FAUCET, Z1231 LAV CARRIER WITH UPRIGHTS	WHITE
FD-1	FLOOR DRAIN	ZURN	Z415	5" DIA. N.B. STRAINER	0.5 GPM	1.5	1.5	1	1 1/2"	1 1/2"	1/2"	BARRIER FREE COMPLIANT; BARRIER FREE TRAP, TRUEBRO LAV GUARD HW INSUL. KIT; SOLID BRASS FAUCET	
SK-1	SINK	ELKAY	LRAD291685	LK024378HD FAUCET, CR-19 STOPS AND SUPPLES, OFFSET GRID DRAIN, 17 GA. C.P. P-TRAP									
CO-1	FLOOR CLEAN OUT	ZURN	ZN1400-3NH-5BZ1 cast iron cleanout with 5" round nickel bronze adjustable top up to 1-1/4 of vertical post pour adjustment, tilt correction shims and rough-in cover	Nickel Bronze top, cast iron body								2", 3", 4", 6"	
WHA	WATER HAMMER ARRESTOR	ZURN	1250	COPPER								INSTALL AS REQUIRED BY THE PLUMBING CODE	



3 FLOOR CLEANOUT
SCALE: 1"=1'-0"



LOCATE VTR MINIMUM OF THREE FEET FROM PROPERTY LINE, TEN FEET HORIZONTAL, OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE; ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 15' FROM PARAPET, EXPANSION JOINT, ROOF DRAINS, ADJACENT WALLS, EQUIPMENT CURB, OR OTHER ROOF FEATURE. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS. INSULATE LAST 6 FEET OF VENT PIPE INSIDE BUILDING.

5
P101 SCALE: 1 1/2"=1'-0"

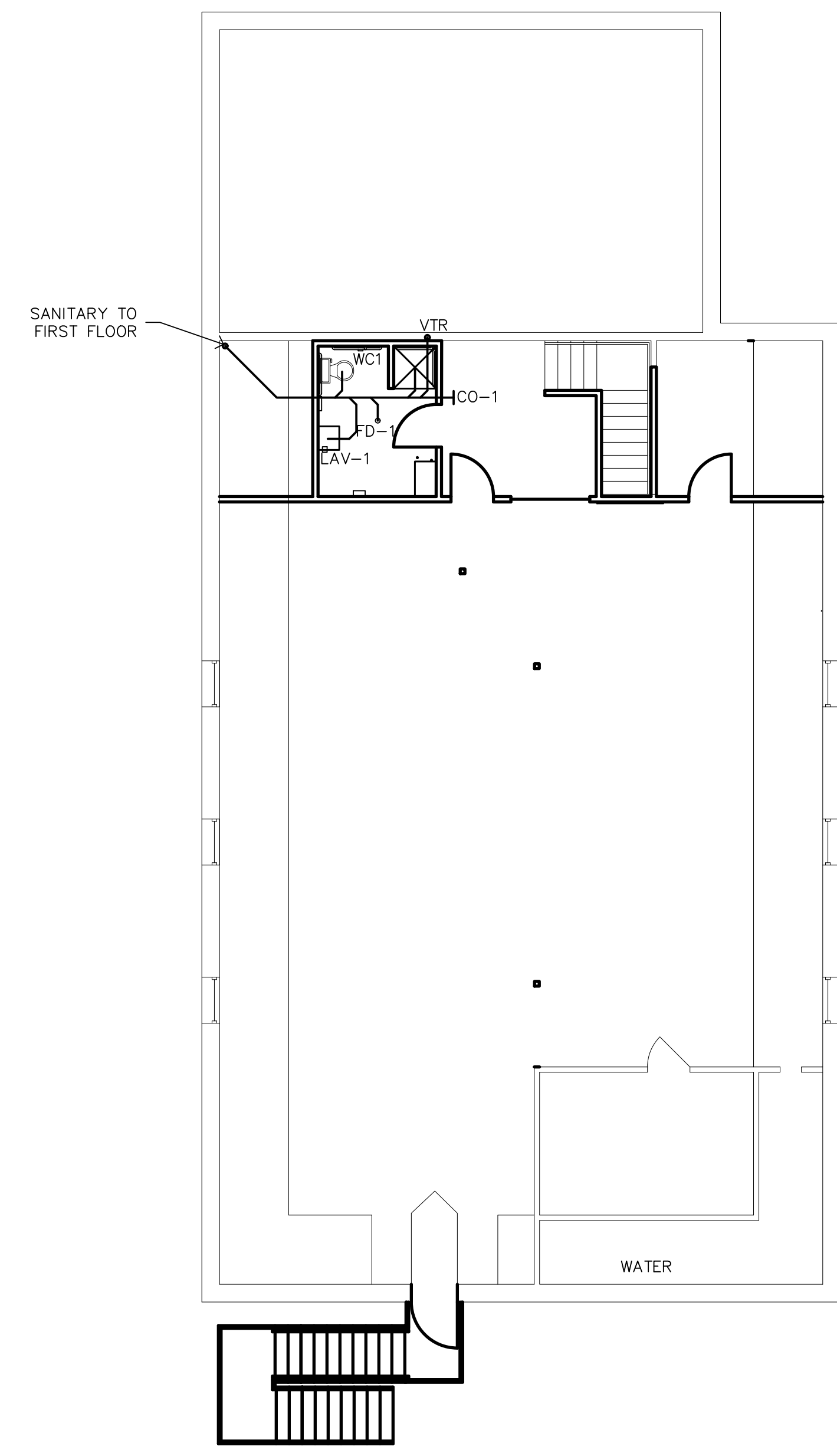
PLUMBING NOTES

1. PLUMBING CONTRACTOR RESPONSIBLE TO SIZE ALL WASTE, SUPPLY, VENTS, DRAINS, TRAPS, ETC TO PROVIDE COMPLETE SYSTEM THAT IS IN COMPLIANCE WITH ALL CODES AND REGULATIONS.
2. THE PLUMBING DRAWINGS ARE SCHEMATIC ONLY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL LAYOUT AND ROUTING OF PIPING.
3. NO PLUMBING PIPING SHALL BE ROUTED OVER ELECTRICAL PANELS.
4. PLUMBING CONTRACTOR SHALL CONTACT THE SERVICE PROVIDER AND ARRANGE FOR NEW GAS SERVICE CONNECTION.
5. PLUMBING CONTRACTOR SHALL CONTACT THE MUNICIPAL AUTHORITY TO ARRANGE FOR NEW WATER SERVICE CONNECTION.
6. PROVIDE CLEANOUTS AT THE BASE OF ALL BASE STACKS, CHANGES IN DIRECTION GREATER THAN 45 DEGREES, AND 50 FEET ON CENTER FOR STRAIGHT RUNS.
7. ALL PLUMBING SHALL COMPLY WITH BARRIER FREE REQUIREMENTS.
8. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS.
9. WRAP ALL WATER PIPING WITH INSULATED PIPE WRAP.
10. ALL LAMBS TONGUE DISCHARGE TO BE 36" ABOVE ADJACENT GRADE.
11. PLUMBING CONTRACTOR TO VERIFY MICHIGAN PLUMBING CODE AND COUNTY HEALTH DEPARTMENT REQUIREMENT FOR BACKFLOW PREVENTERS, CHECK VALVES, VACUUM BREAKERS, AND INDIRECT WASTEWATER CONNECTIONS.

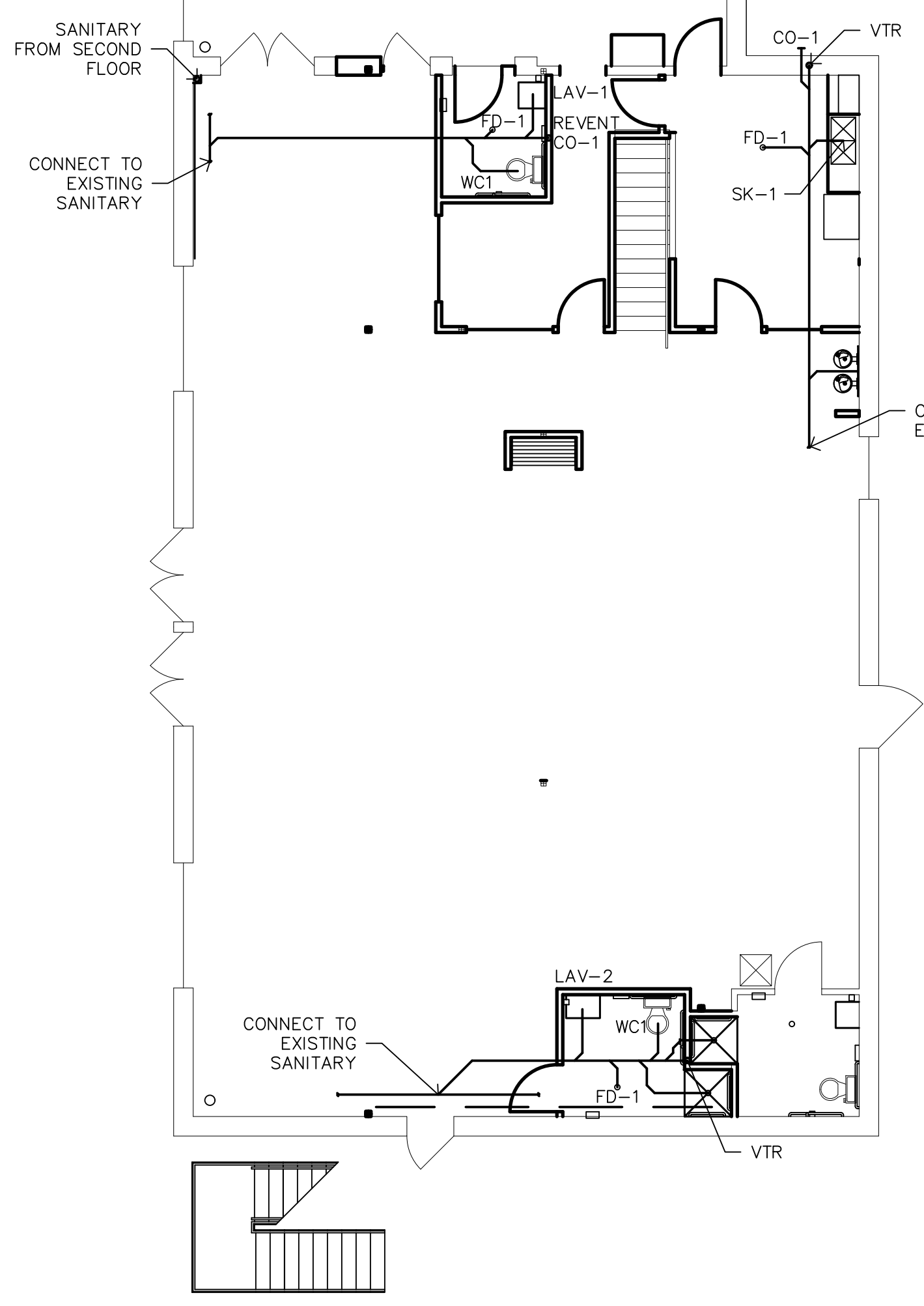
PLUMBING PIPING REQUIREMENTS

	HW	CW	WASTE
WATER CLOSET TANK	1"	1"	3"
WATER CLOSET FLUSH VALVE	1"	1"	3"-4"
URINALS	1"	1"	2"
SERVICE SINK	1/2"	1/2"	3"
ELECTRIC WATER COOLER	1/2"	1/2"	1"
WASH BASIN	1/2"	1/2"	1 1/2"
SINKS/LAVATORIES	1/2"	1/2"	1 1/2"
SHOWER STALLS	1/2"	1/2"	3"
FLOOR DRAIN	1/2"	1/2"	3"

NOTE: PIPE SIZES SHOWN ARE MINIMUM STANDARD. PC SHALL VERIFY VARIANCES ON PLAN.



1 SECOND FLOOR SANITARY PLUMBING PLAN
SCALE: 1/8" = 1'-0"

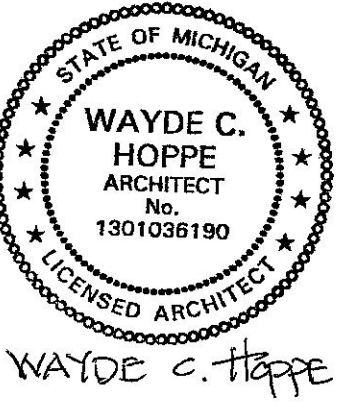


2 FIRST FLOOR SANITARY PLUMBING PLAN
SCALE: 1/8" = 1'-0"



SANITARY PLUMBING PLAN

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HOPPE DESIGN, LLC
47032 INGERDIE, BELLEVILLE, MI 48111
734-216-2492

REVISIONS

PROJECT: 2202
DATE: 7.15.22
DRAWN: JPH
CHECKED: WCH

**ANIMAL FRIENDS VETERINARY HOSPITAL
INTERIOR RENOVATION**
500 E. HURON RIVER DRIVE, BELLEVILLE, MI 48111

P101

VERIFY ALL DIMENSIONS IN FIELD

LEGEND

- GATE VALVE
- GLOBE VALVE
- BALL VALVE
- CHECK VALVE
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- LUBRICATED PLUG VALVE
- BAL. BALL VALVE W/ MEMORY STOP
- CIRCUIT SETTER
- PRESSURE REDUCING VALVE
- PRESSURE TEMP. TEST PORT
- PRESSURE GAUGE
- THERMOMETER
- EXPANSION JOINT W/ GUIDES
- AIR VENT
- Y-STRAINER
- PIPE FLEXIBLE CONNECTOR
- CONN. TO EXIST.
- DUCT FLEXIBLE CONNECTOR
- EXIST. FIRE DAMPER
- NEW FIRE DAMPER
- EXIST. SMOKE DAMPER
- NEW SMOKE DAMPER
- EXIST. COMB. FIRE SMOKE DMPR
- NEW COMB. FIRE/SMOKE DMPR
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE

PLUMBING NOTES

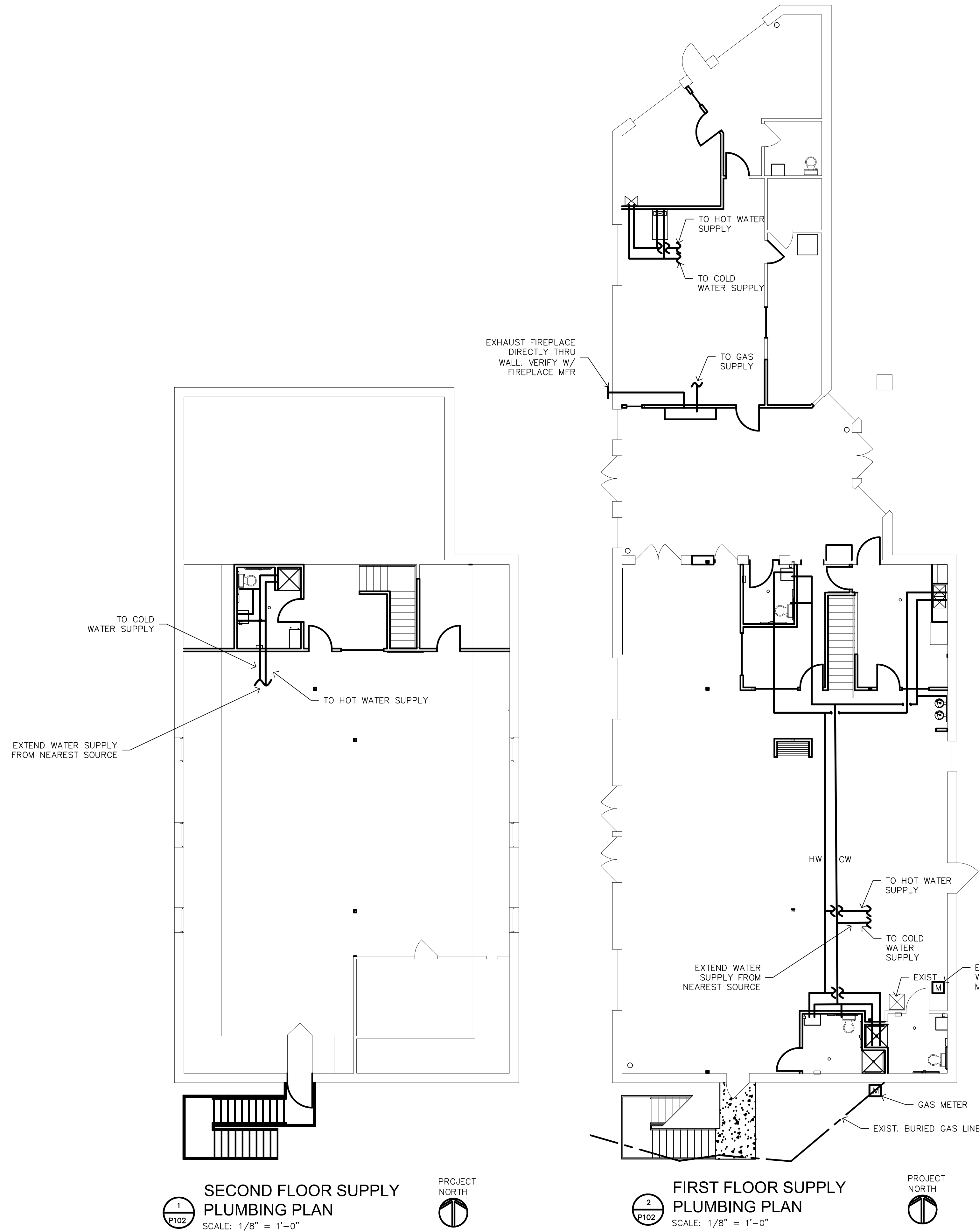
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PLUMBING PIPING REQUIREMENTS

	HW	CW	WASTE
WATER CLOSET TANK	1"	1 1/2"	3"
WATER CLOSET FLUSH VALVE	1"	1 1/2"	3" - 4"
URINALS	1"	1 1/2"	2"
SERVICE SINK	1"	1 1/2"	3"
ELECTRIC WATER COOLER	1"	1 1/2"	1"
WASH BASIN	1"	1 1/2"	1"
SINKS/LAVATORIES	1"	1 1/2"	1"
SHOWER STALLS	1"	1 1/2"	3"
FLOOR DRAIN	1"	1 1/2"	3"

NOTE: PIPE SIZES SHOWN ARE MINIMUM STANDARD. PC SHALL VERIFY VARIANCES ON PLAN.

VERIFY ALL DIMENSIONS IN FIELD



1
P102
SECOND FLOOR SUPPLY PLUMBING PLAN
SCALE: 1/8" = 1'-0"



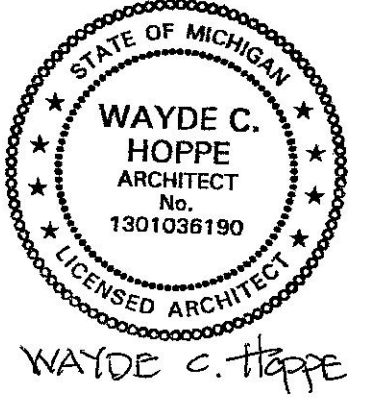
2
P102
FIRST FLOOR SUPPLY PLUMBING PLAN
SCALE: 1/8" = 1'-0"



SUPPLY PLUMBING PLAN

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