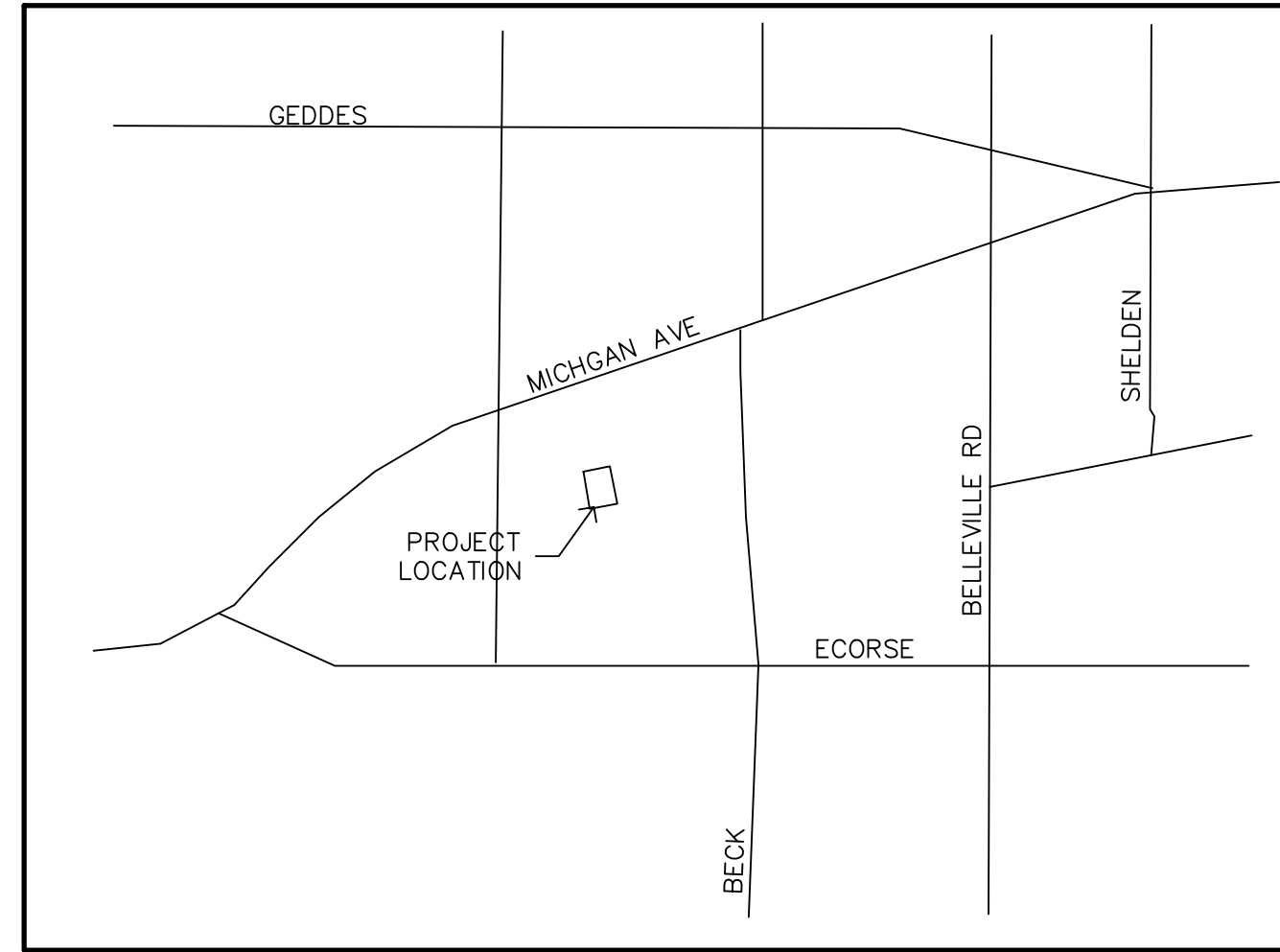


# OFFICE RENOVATIONS TO CONTRACTORS STEEL CO

48649 SCHOONER DR., VAN BUREN TWP., MI 48111

OFFICE RENOVATIONS TO  
CONTRACTORS STEEL  
48649 SCHOONER DR., VAN BUREN TWP., MI 48111

## LOCATION MAP



PROJECT NORTH



## DIRECTORY

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

**APPLICANT AND OWNER**  
CONTRACTORS STEEL CO  
48649 SCHOONER DR  
VAN BUREN TWP., MI

## DRAWING INDEX

CIVIL  
DT TITLE SHEET

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**ARCHITECTURAL**  
A001 SPECIFICATIONS  
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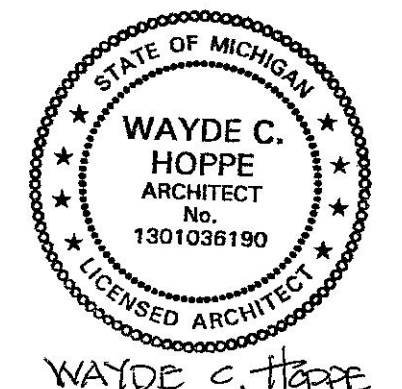
**MECHANICAL AND PLUMBING**  
M101 MECHANICAL PLANS

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P101 PLUMBING PLANS

**ELECTRICAL**  
E101 LIGHTING AND POWER PLANS

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

REVISIONS



WAYDE C. HOPPE

PROJECT: 2212  
DATE: 8.31.22  
DRAWN: WCH  
CHECKED: WCH

**TITLE SHEET**

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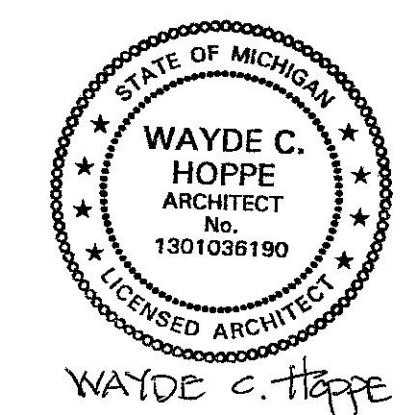
**STATEMENT OF SPECIAL INSPECTIONS**

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	—	
<b>LEVEL 1 SPECIAL INSPECTION (TABLE 1704.5.1) INSPECTION TASK</b>					
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
<b>REQUIRED VERIFICATION AND INSPECTION OF SOILS (TABLE 1704.7) VERIFICATION AND INSPECTION</b>					
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**



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48649 SCHOONER DR., VAN BUREN TWP., MI 48111

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PROJECT: 2212  
DATE: 8.31.22  
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CHECKED: WCH

**SPECIAL INSPECTIONS**

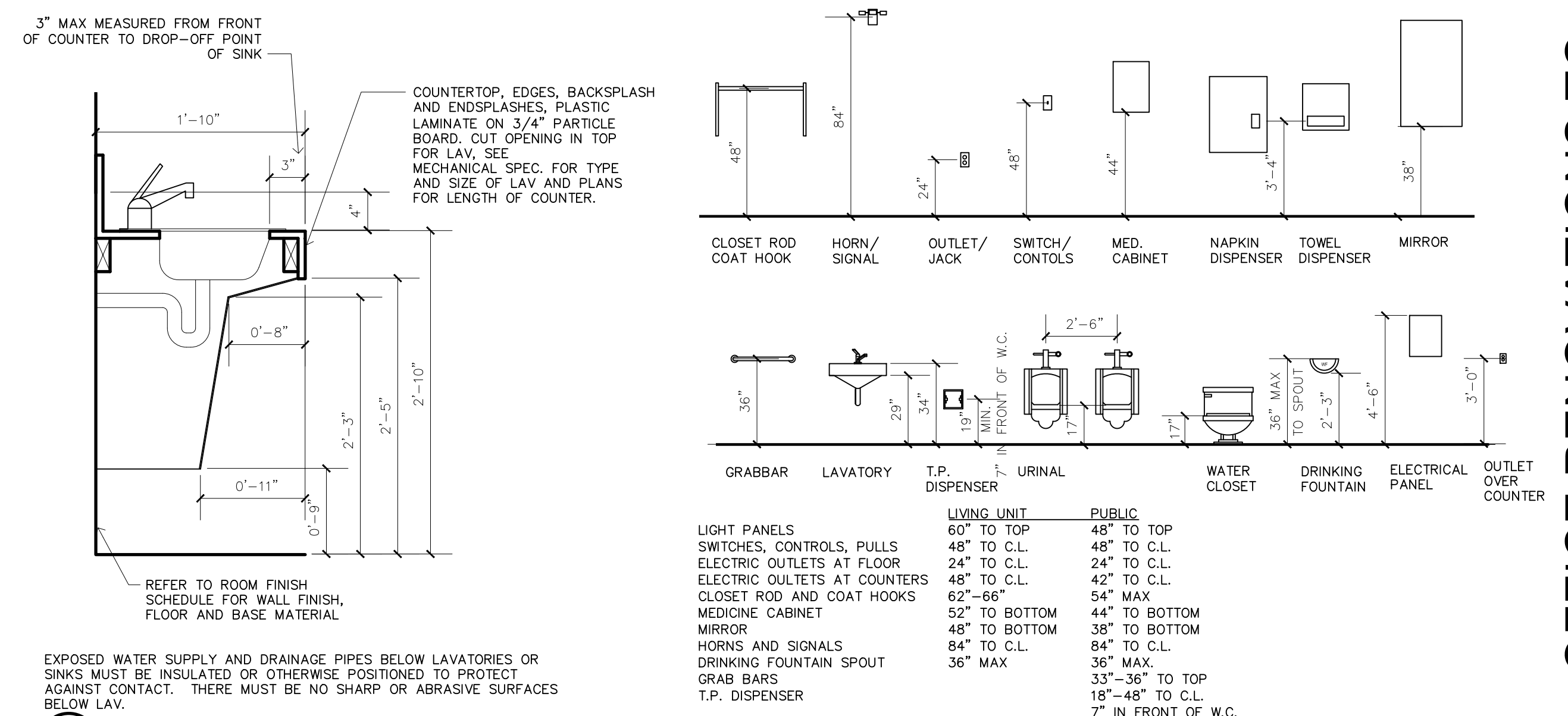
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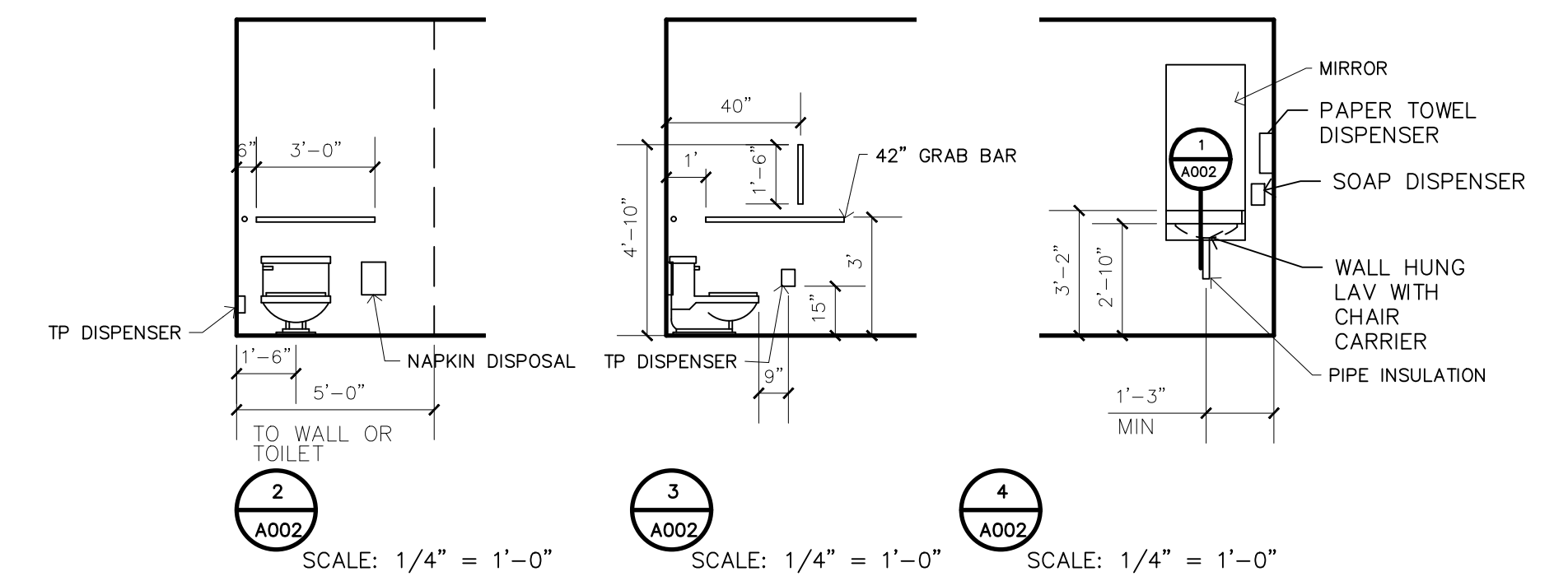
APPLICABLE CODES			
BUILDING	2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS	INTERNATIONAL FIRE CODE	
ACCESSIBILITY	2009 ICC/ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES	2010 AMERICANS WITH DISABILITIES	
ENERGY CODE	ASHRAE 90.1 2013; IECC 2015	2015 INTERNATIONAL MECHANICAL PLUMBING CODE	
MECHANICAL	2017 NFPA 70 NATIONAL ELECTRICAL CODE		
ELECTRICAL			
SECTION #	CHAPTER 1		
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	NON REQUIRED	
SECTION #	CHAPTER 3		
USE AND OCCUPANCY CLASSIFICATION			
303.4	OCCUPANCY CLASSIFICATION	FACTORY INDUSTRIAL	
	GROUP CLASSIFICATION	F-2	
	USE CLASSIFICATION	LOW HAZARD: METAL PRODUCTS	
304	OCCUPANCY CLASSIFICATION	BUSINESS	
	GROUP CLASSIFICATION	GROUP B	
	USE CLASSIFICATION	PROFESSIONAL SERVICE	
SECTION #	CHAPTER 4	REQUIRED	PROVIDED
SECTION #	CHAPTER 5	REQUIRED	PROVIDED
BUILDING AREA			
TABLE 508.4	OCCUPANCY SEPARATION	NONE REQUIRED	NONE PROVIDED
603.1.1	SPECIAL INDUSTRIAL OCCUPANCIES	EXEMPT FROM HEIGHT AND AREA RESTRICTIONS	
	AREA OF SUITE		2785 SF
SECTION #	CHAPTER 6	REQUIRED	PROVIDED
BUILDING CONSTRUCTION TYPE			
TABLE 601	CONSTRUCTION TYPE	IIB	IIB
TABLE 601	FIRE RESISTANCE RATINGS		
TABLE 601	STRUCTURAL FRAME	0 HOURS	0 HOURS
TABLE 601	EXTERIOR BEARING WALLS	0 HOURS	0 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			
SECTION 705.8.1	FIRE-RESISTANCE RATED CONSTRUCTION		
EXCEPTION 2	EXTERIOR WALL OPENINGS		
TABLE 706.4	FIRE WALL RATING	NOT APPLICABLE	NOT APPLICABLE
TABLE 707.3.10	FIRE BARRIER RATING	NOT APPLICABLE	NOT APPLICABLE
	SHAFT ENCLOSURES	NOT APPLICABLE	NOT APPLICABLE
SECTION 708	FIRE PARTITIONS	NOT APPLICABLE	NOT APPLICABLE
	SMOKE BARRIERS	NOT APPLICABLE	NOT APPLICABLE
	SMOKE PARTITIONS	NOT APPLICABLE	NOT APPLICABLE
	DRAFTSTOPPING	NOT APPLICABLE	NOT APPLICABLE
SECTION #	CHAPTER 8	REQUIRED	PROVIDED
INTERIOR FINISHES			
	OCCUPANCY	B	
	-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)
	INTERIOR FLOOR FINISH	GROUP B TO HAVE MINIMUM CRITICAL RADIANT FLUX NOT LESS THAN CLASS 2	
SECTION #	CHAPTER 9	REQUIRED	PROVIDED
FIRE PROTECTION SYSTEMS			
SECTION 906.1	FIRE EXTINGUISHERS	NO SPRINKLER SYSTEM REQUIRED COMPLY WITH FIRE CODE	NONE PROVIDED PROVIDED
SECTION #	CHAPTER 10	REQUIRED	PROVIDED
OCCUPANT LOAD			
TABLE 1004.1.1	B USE GROUP BUSINESS	100 GROSS	2785 / 100 = 28
MEANS OF EGRESS			
	EGRESS TYPE	B	
	STAIRWAYS	NA	N/A
	OTHER EGRESS COMPONENTS: 2"/PERSON	28	72'
TABLE 1017.2	TRAVEL DISTANCE B NON SPRINKLED	200'	163'
SECTION 1020.2	CORRIDOR WIDTH WITH OCCUPANT LOAD < 50	36 INCHES (MIN.)	NA
TABLE 1020.1	CORRIDOR RATING NON SPRINKLED SERVING < 30	0	NA
TABLE 1006.3.1	NUMBER OF EXITS	2	2
SECTION #	CHAPTER 11	REQUIRED	PROVIDED
ACCESSIBILITY			
			ACCESS TO SUITE AND WITHIN SUITE IS ACCESSIBLE
SECTION #	MICHIGAN PLUMBING CODE	REQUIRED	PROVIDED
	B BUSINESS		
	W.C. 1.25 FOR FIRST 50 AND 1.50 FOR THE REMAINDER	(28/25) + (0/50) = 2 REQUIRED	2
	LAV. 1.40 FOR FIRST 50 AND 1.80 FOR THE REMAINDER	(28/40) + (0/80) = 2	2

SECTION #	MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS	REQUIRED	PROVIDED
SECTION #	CHAPTER 4	REQUIRED	PROVIDED
PRESCRIPTIVE METHOD			
403	ALTERATIONS SHALL COMPLY WITH THE MBC		SEE MBC REVIEW ABOVE
SECTION #	CHAPTER 5	REQUIRED	PROVIDED
WORK AREA METHODS			
SECTION #	CHAPTER 8	REQUIRED	PROVIDED
ALTERATIONS LEVEL 2			
803.4	MEET THE INTERIOR FINISH REQUIREMENTS OF THE MBC		PROVIDED
804	FIRE PROTECTION	NONE REQUIRED	
805.3	THE NUMBER OF EXITS IS TO BE DETERMINED BY THE OCCUPANT LOAD PER THE MBC WORK AREAS WITH OCCUPANT LOADS GREATER THAN 50 AND TRAVEL DISTANCE GREATER THAN 75 FEET PROVIDE TWO MEANS OF EGRESS		PROVIDED
805.4	DEAD ENDS LIMITED TO 35'		NA
805.6	EXIT SIGNS		PROVIDED
806.1	COMPLY WITH ACCESSIBILITY OF 410		PROVIDED



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

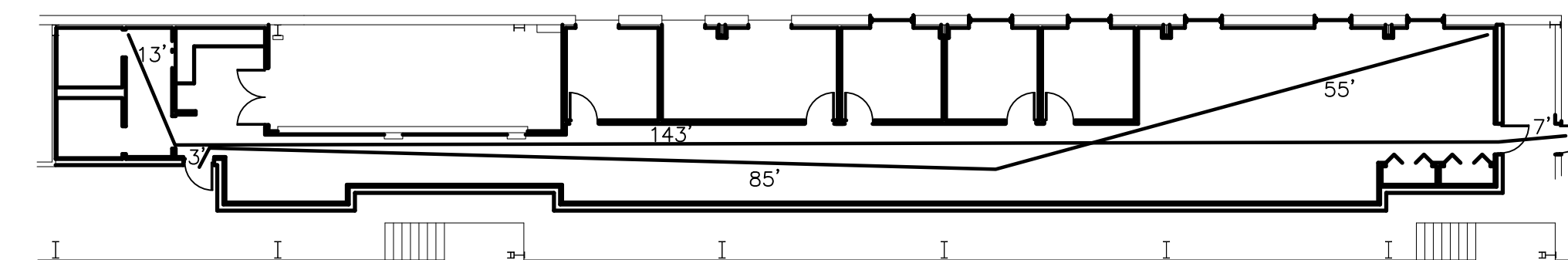
BARRIER FREE FIXTURE HEIGHTS



2 A002 SCALE: 1/4" = 1'-0"

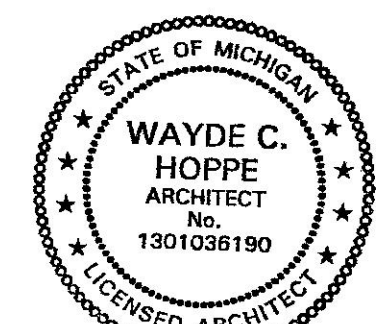
3 A002 SCALE: 1/4" = 1'-0"

4 A002 SCALE: 1/4" = 1'-0"



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

TOTAL AREA 2785 SF



WAYDE C. HOPPE

OFFICE RENOVATIONS TO CONTRACTORS STEEL 48649 SCHOONER DR., VAN BUREN TWP., MI 48111

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

REVISIONS

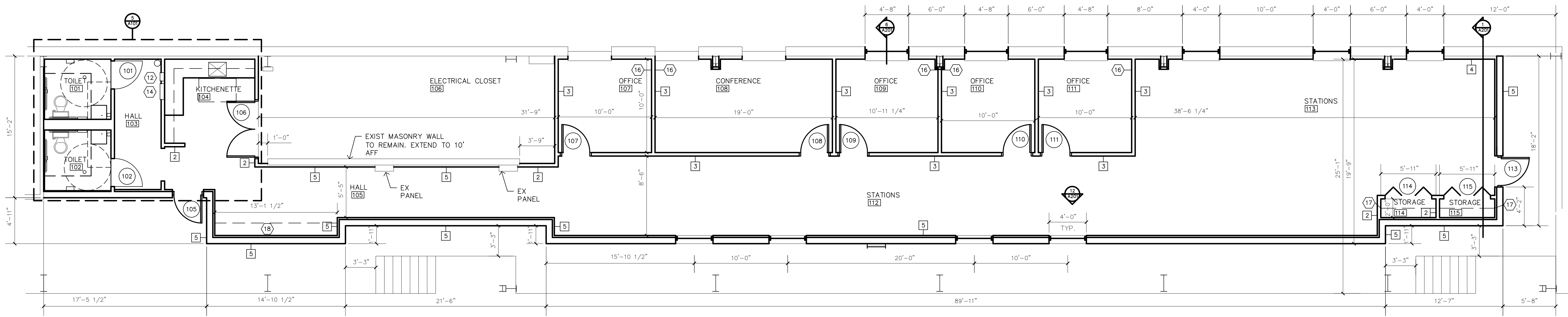
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VERIFY ALL DIMENSIONS IN FIELD

CODE REVIEW

A002

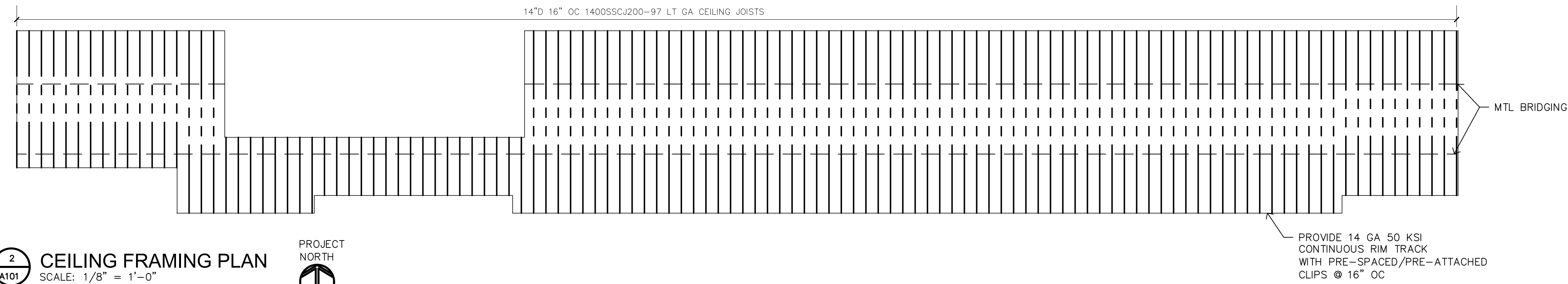
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**1 FLOOR PLAN**  
SCALE: 3/16" = 1'-0"  
PROJECT NORTH

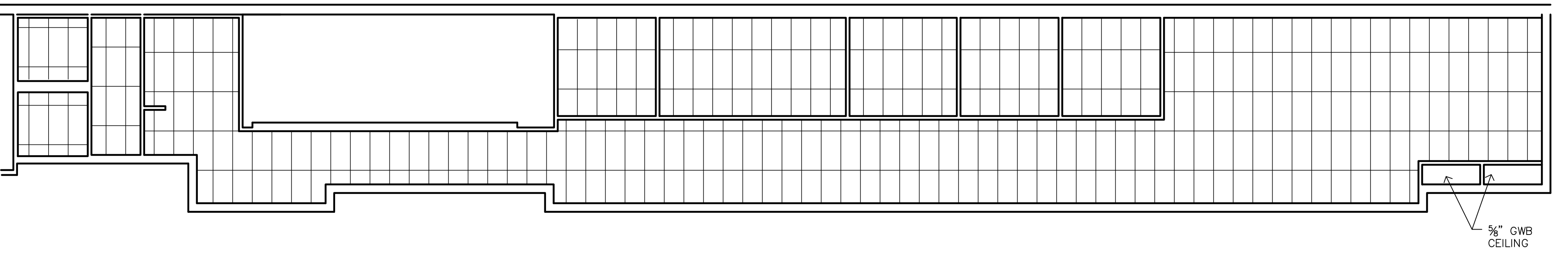
- KEYNOTES**
- ELECTRIC HAND DRYER
  - SOAP DISPENSER
  - GRAB BAR
  - FEMININE NAPKIN DISPOSAL
  - FLOOR DRAIN
  - TOILET PAPER DISPENSER
  - MOP HOLDER
  - MIRROR
  - TOILET
  - LAVATORY
  - SLOP SINK
  - ELECTRIC TANKLESS WATER HEATER
  - SOUND ATTENUATION INSULATION ABOVE CEILING
  - ELECTRIC PANEL
  - 2A-10B WALL HUNG FIRE EXTINGUISHER
  - PLYWOOD BACKING
  - ROD AND SHELF
  - WOOD SHELVING: 5 HIGH, PAINTED
  - SHIPS LADDER
  - METAL RAILING

- WALL TYPES**
- 1/2" GWB ON 6" METAL STUDS 16" O.C. W/ 5" ACOUSTICAL FIBERGLASS INSULATION W/ 5/8" GWB. U419 1 HR RATING
  - 1/2" GWB ON 3 3/8" METAL STUDS 16" O.C. W/ 5/8" GWB.
  - 1/2" GWB ON 3 3/8" METAL STUDS 16" O.C. W/ 3 1/2" FIBERGLASS ACOUSTICAL INSUL W/ 5/8" GWB.
  - 1/2" GWB ON VB ON 3 3/8" 16 GA MTL STUD 16" OC WITH FIBERGLASS INSUL ON EXISTING CMU
  - 1/2" GWB ON 2" RESILIENT HAT CHANNEL WITH 2" RIGID INSULATION ON 8" REINFORCED CMU
  - 8" REINFORCED CMU

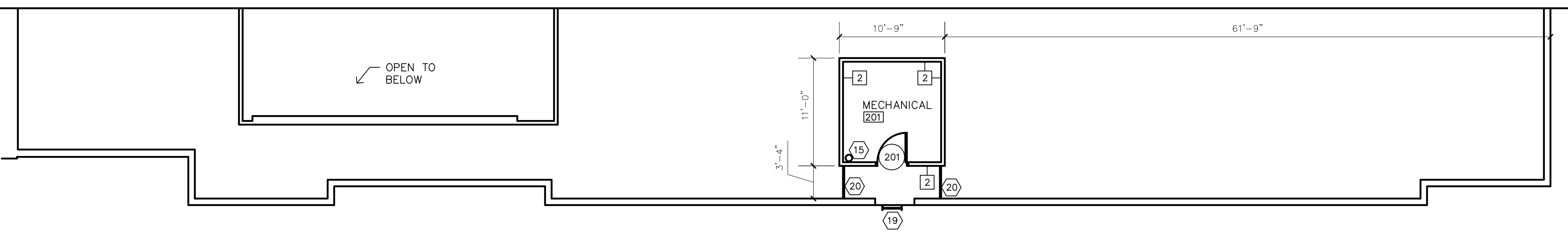


**2 CEILING FRAMING PLAN**  
SCALE: 1/8" = 1'-0"  
PROJECT NORTH

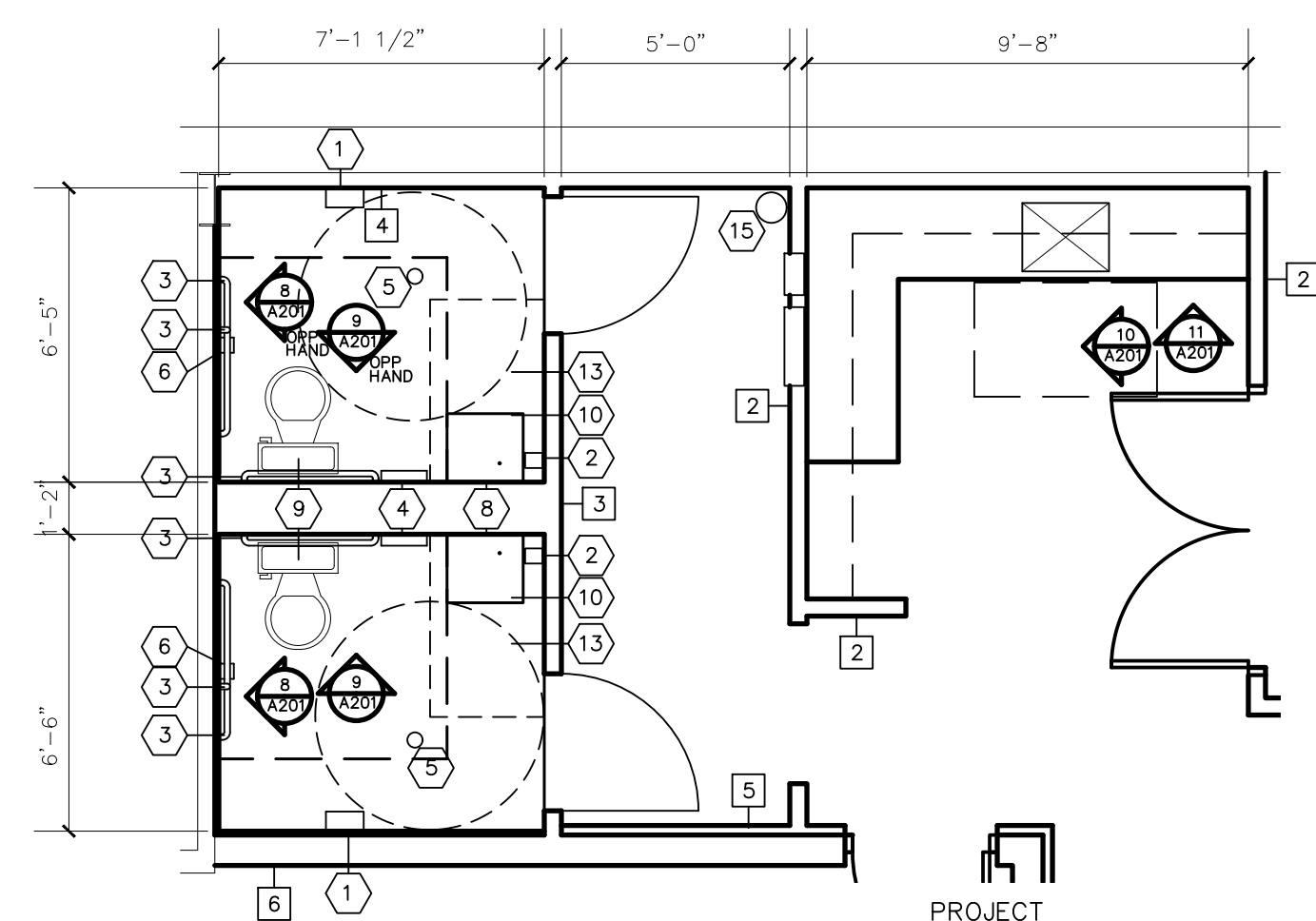
14 00SSCJ200-97 FLOOR JOISTS TO SUPPORT 25 PSF DL + 125 PSF LL  
DELTA LL = L/360  
DELTA TL = L/240



**3 REFLECTED CEILING PLAN**  
SCALE: 1/8" = 1'-0"  
PROJECT NORTH



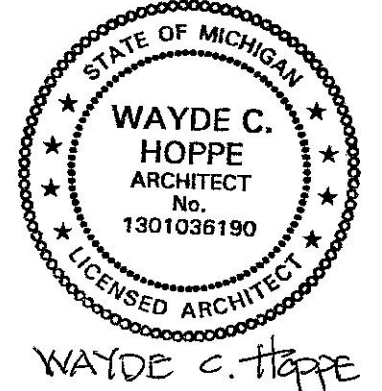
**4 MEZZANINE PLAN**  
SCALE: 1/8" = 1'-0"  
PROJECT NORTH

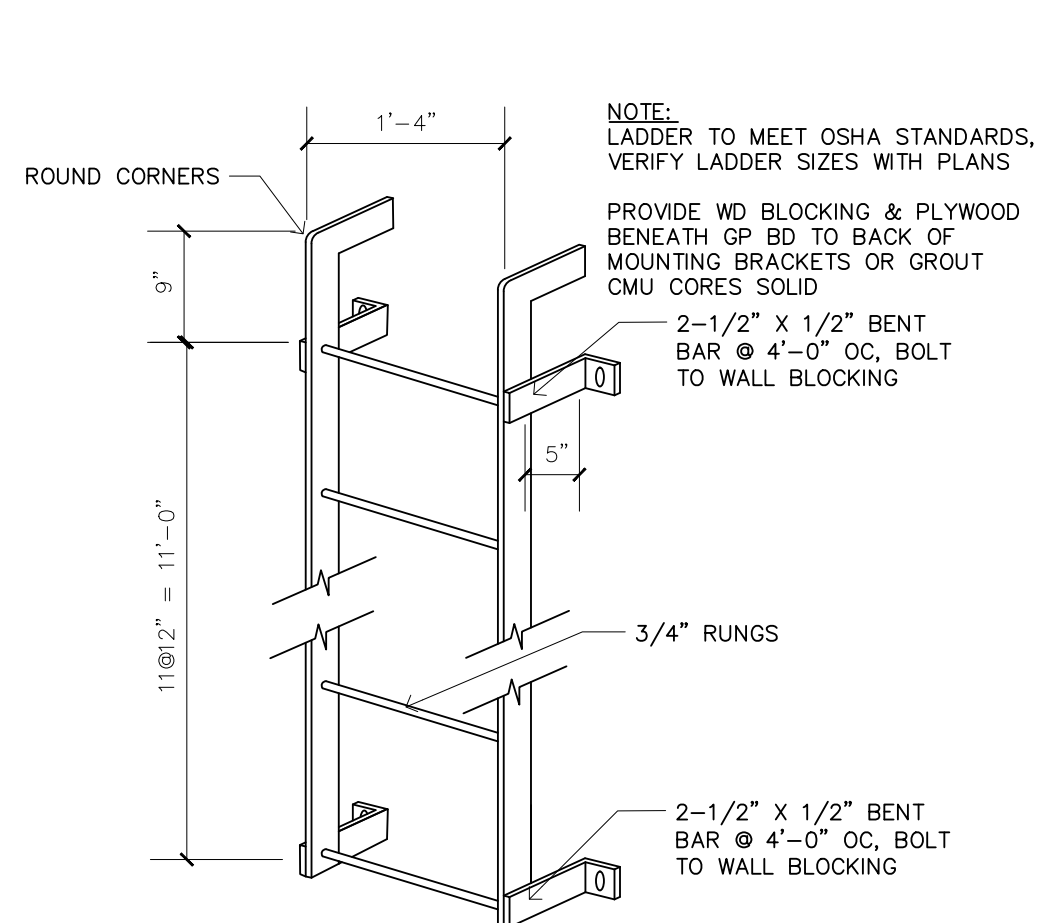


**5 TOILETS AND KITCHEN PLAN**  
SCALE: 1/4" = 1'-0"  
PROJECT NORTH

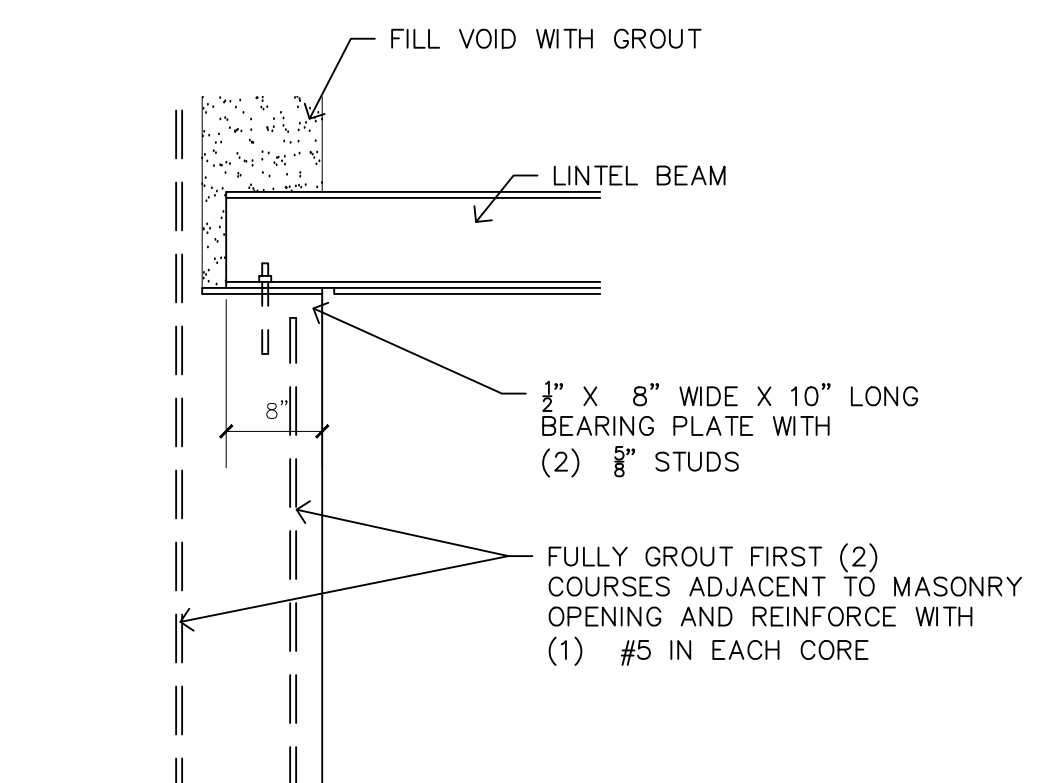
PROVIDE WD BLOCKING AT ALL TOILET AND KITCHEN ACCESSORIES.

**FLOOR PLAN**

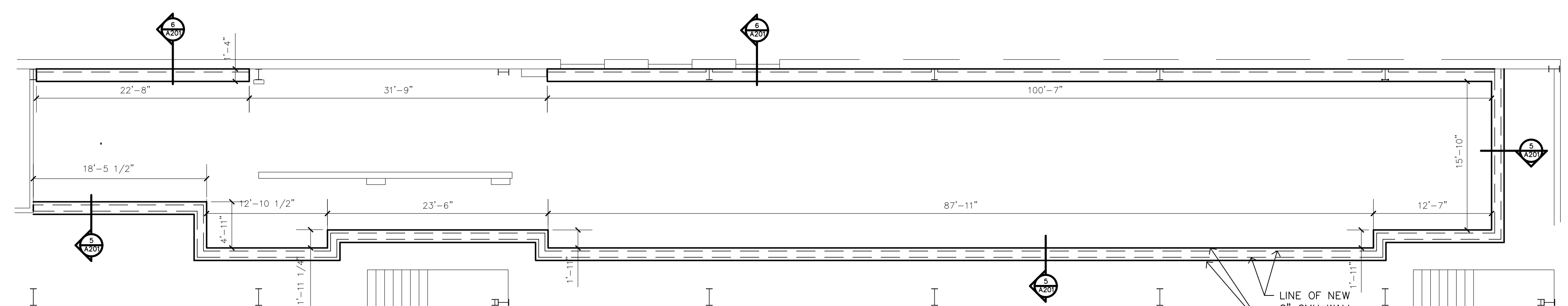




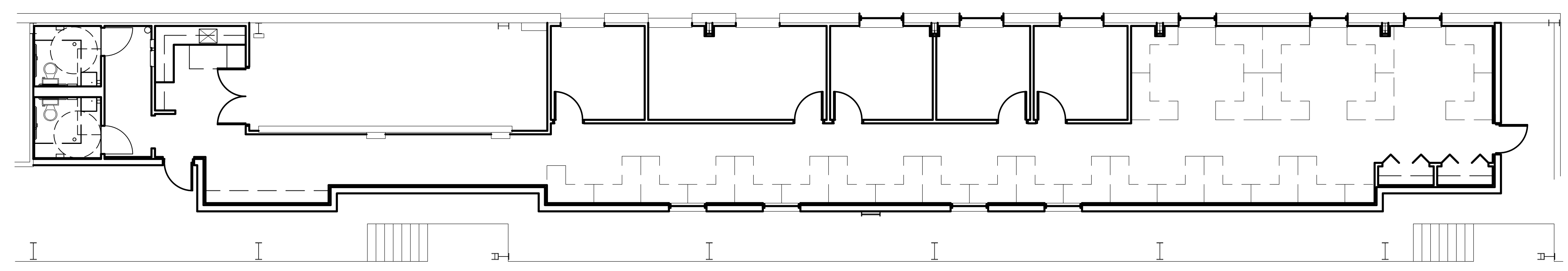
**4**  
A201  
SCALE: 3/4" = 1'-0"



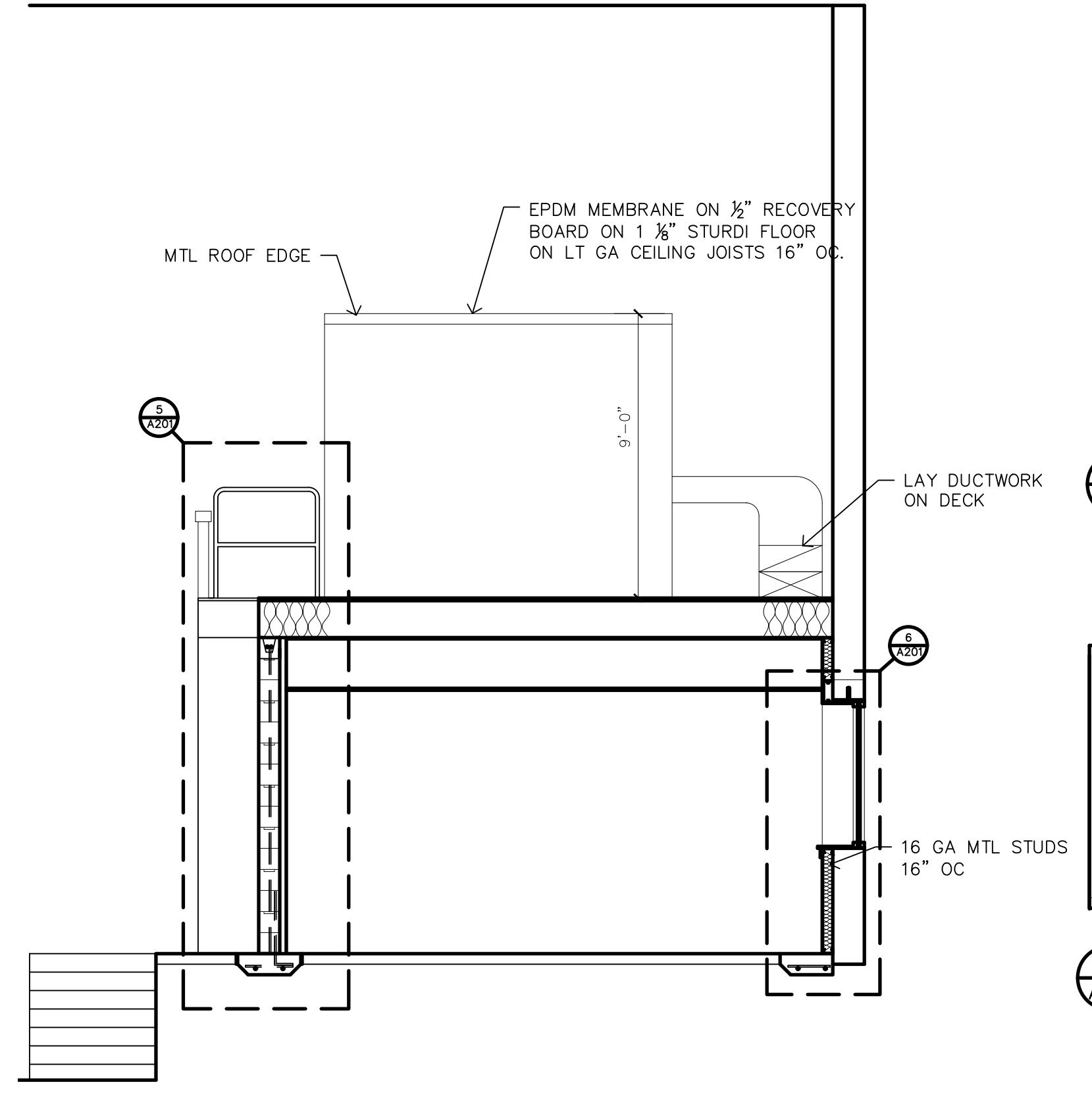
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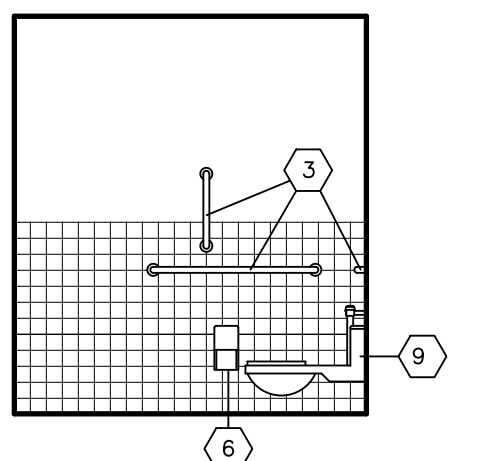
**3**  
A201  
SCALE: 1/8" = 1'-0"



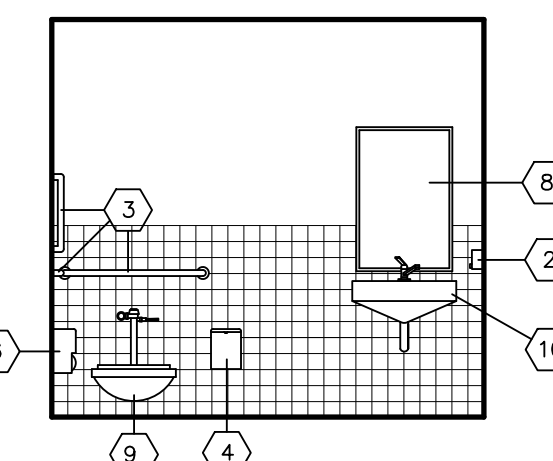
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A201  
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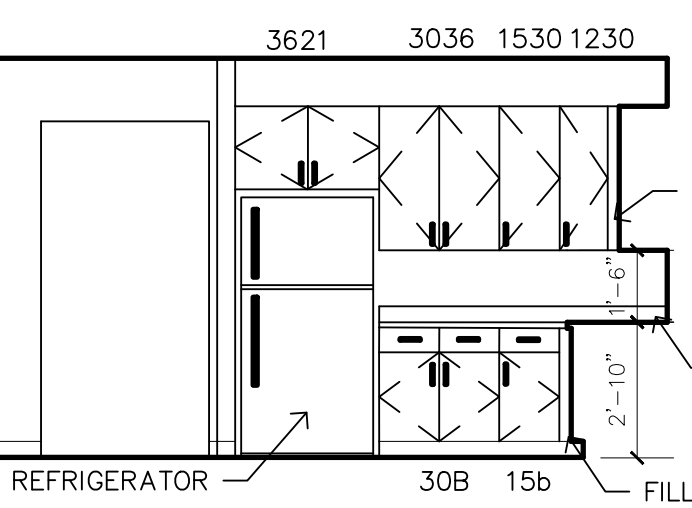
**1**  
A201  
SCALE: 1/4" = 1'-0"



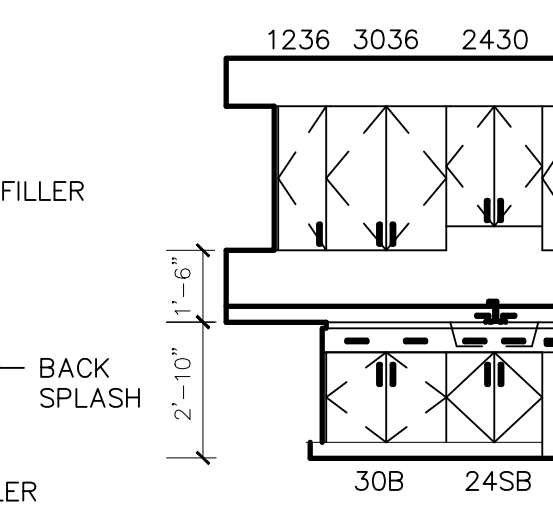
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A201  
SCALE: 1/4" = 1'-0"



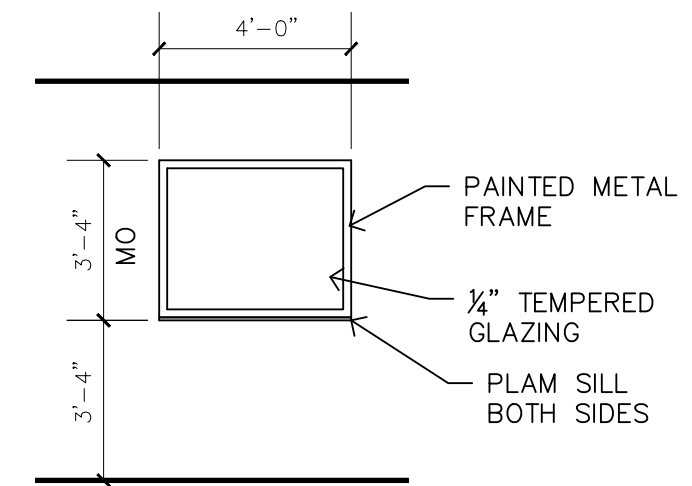
**9**  
A201  
SCALE: 1/4" = 1'-0"



**10**  
A201  
SCALE: 1/4" = 1'-0"



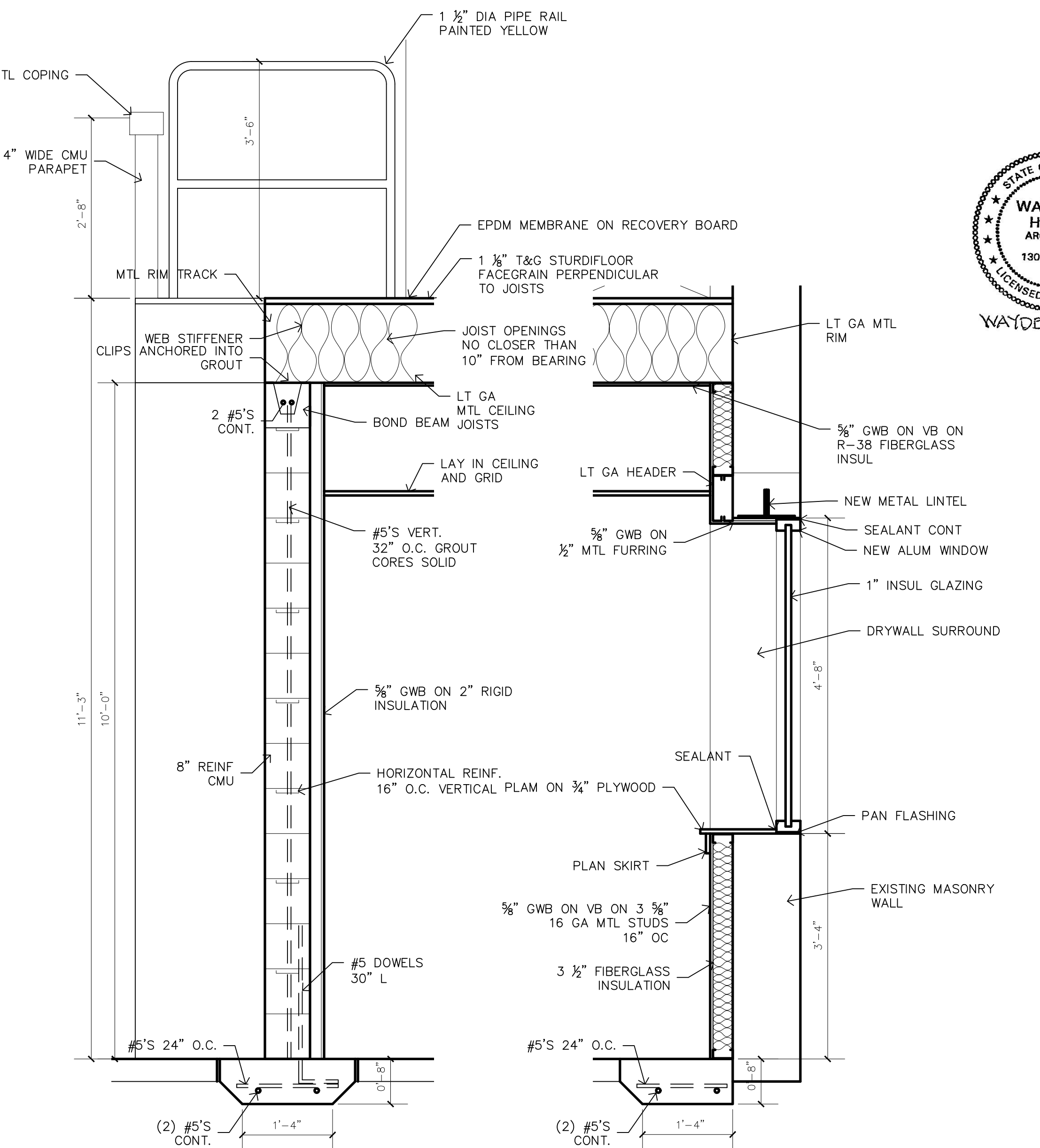
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**12**  
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SCALE: 1/4" = 1'-0"

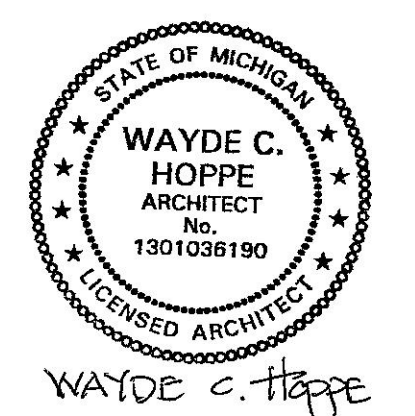
**KEYNOTES**

1. ELECTRIC HAND DRYER
2. SOAP DISPENSER
3. GRAB BAR
4. FEMININE NAPKIN DISPOSAL
5. FLOOR DRAIN
6. TOILET PAPER DISPENSER
7. MOP HOLDER
8. MIRROR
9. TOILET
10. LAVATORY
11. SLOP SINK
12. ELECTRIC TANKLESS WATER HEATER
13. SOUND ATTENUATION INSULATION ABOVE CEILING
14. ELECTRIC PANEL
15. 2A-10B WALL HUNG FIRE EXTINGUISHER
16. PLYWOOD BACKING
17. ROD AND SHELF
18. WOOD SHELVING: 5 HIGH, PAINTED
19. SHIPS LADDER
20. METAL RAILING



**5**  
A201  
SCALE: 3/4" = 1'-0"

**6**  
A201  
SCALE: 3/4" = 1'-0"

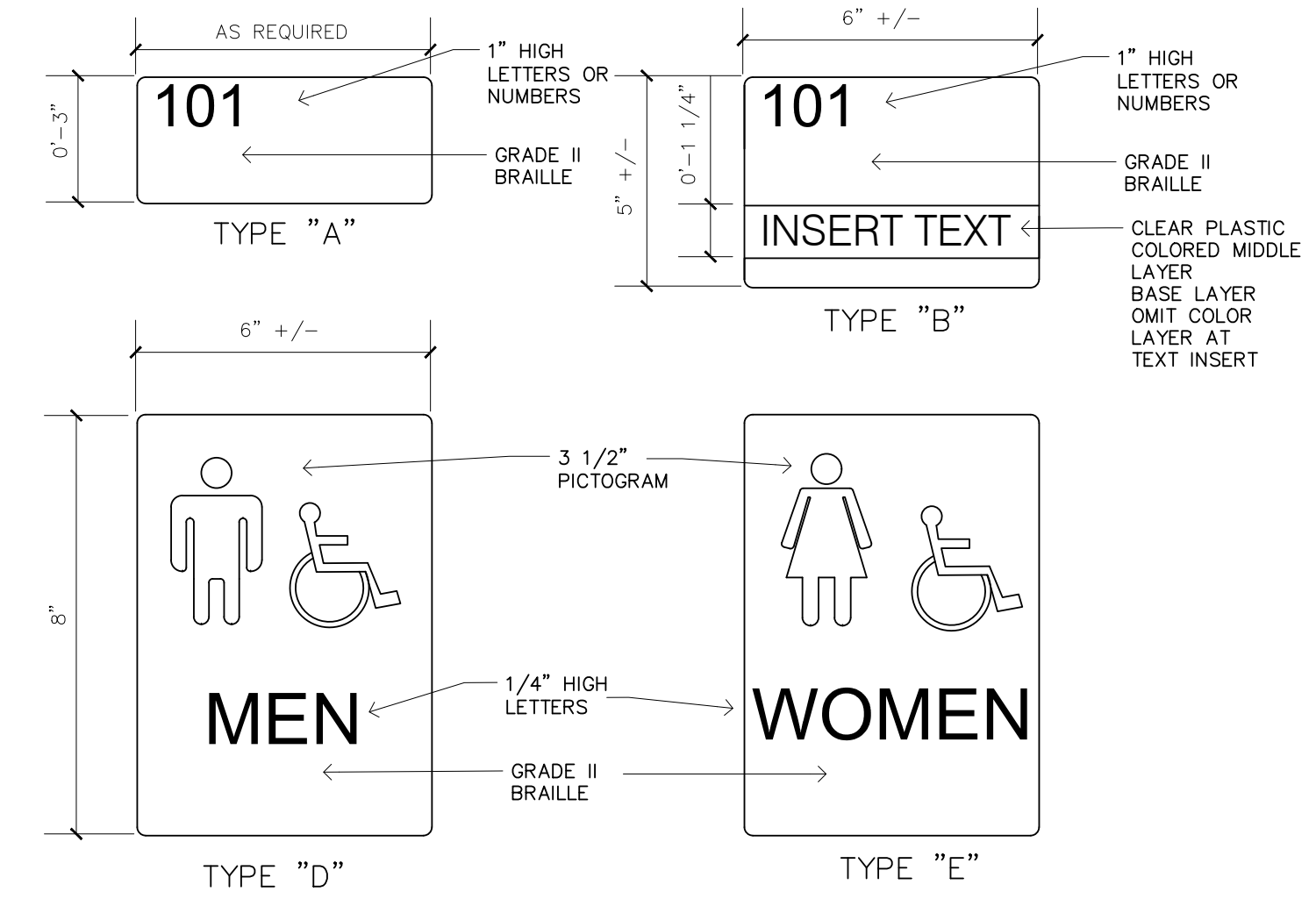


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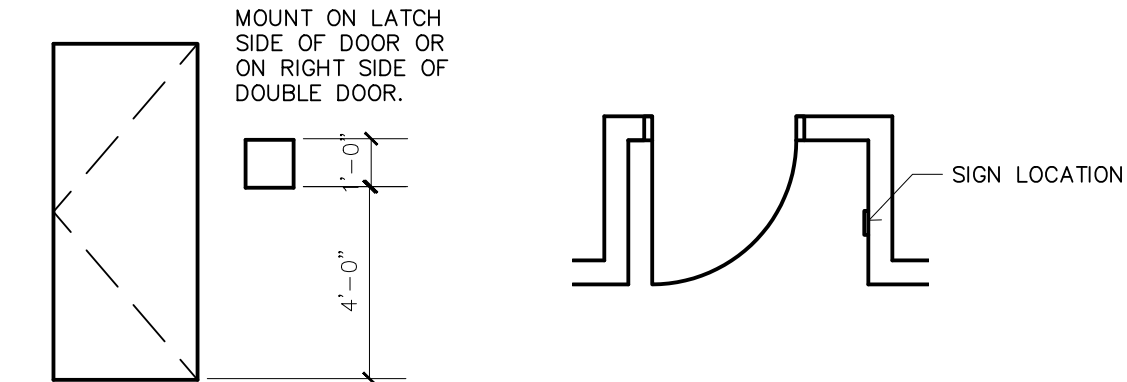
PROJECT: 2212  
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DOOR SCHEDULE								HARDWARE																											
		DOORS		FRAMES				REMARKS	LATCH	LOCK	HINGES	CLOSER	RICK	STOP																					
		SIZES	TYPE	MATERIALS	MATERIALS	DETAILS		VALE GARD NET ACCESS: MATCH	EMERGENCY	PASSAGE	PRIVACY	STOREROOM	OFFICE	ADAMS RITE	VONDUPRIN	1 1/2" PAIR	2" PAIR	3" PAIR: SELF CLOSING	LCN 4011_H_TOMAS PUSH VERIFY HANDING	LCN 4111_H_TOMAS PUSH VERIFY HANDING	12" BRONZE	18" BRONZE	WALL BALDWIN 4045	FLOOR BALDWIN 6510	PUSH PLATE DIMS 8200 3" X 12"	PULL PLS 8103.0	DEADBOLT	THRESHOLD	BIFOLD	CYLINDER	WEATHERSTRIP	POCKET	FLUSH BOLTS TOP AND BOTTOM		
NO.		1 6'-0" X 7'-0" X 1 3/4"	2 7'-0" X 7'-0" X 1 3/4"	3 7'-0" X 7'-0" X 1 3/4"	4 6'-0" X 6'-0" X 1 3/8"	5 6'-0" X 11' O.H.	MODEL																												
101	X		C	X	X				X			X	X					X																	
102	X		C	X	X				X			X	X					X																	
105	X		A		X							X	X					X																	
106	X		C	X	X				X			X	X					X																	
107	X		A	X	X							X	X					X																	
108	X		A	X	X				X			X	X					X																	
109	X		A	X	X							X	X					X																	
110	X		A	X	X							X	X					X																	
111	X		A	X	X							X	X					X																	
113	X		A	X	X							X	X					X																	
114	X	X	B	X	X								X					X																	
115	X	X	B	X	X								X					X																	



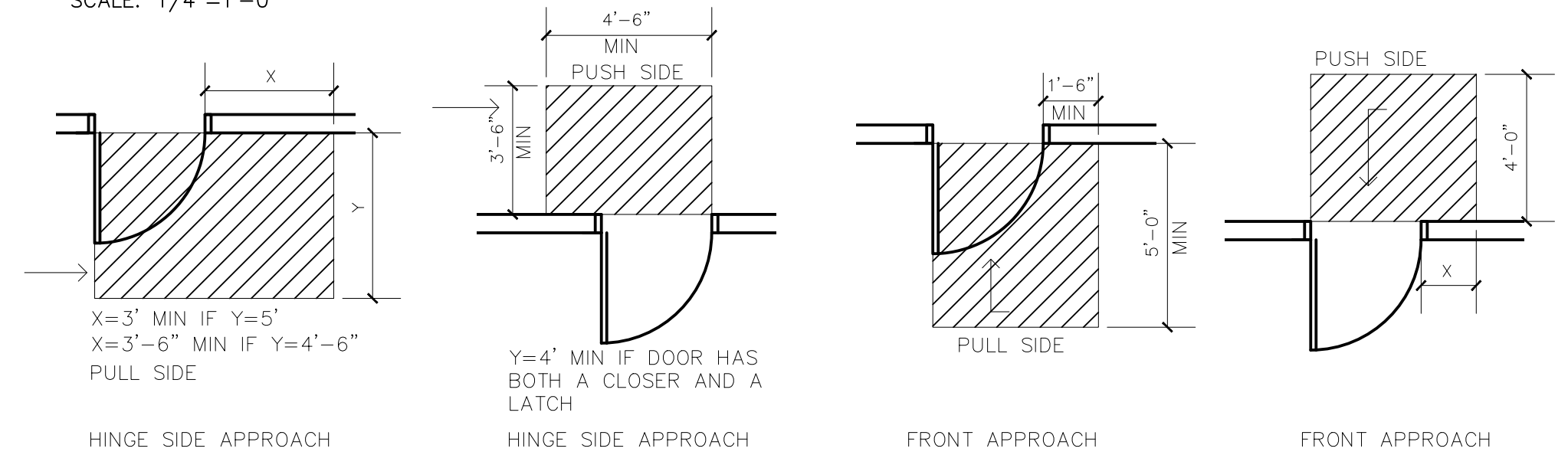
- SIGN MATERIAL SHALL BE MAPLE AS MANUFACTURED AND SUPPLIED BY MODA: 248-306-0677.
- LETTERS SHALL BE RAISED  $\frac{3}{16}$ "; DIMENSIONS SHALL BE 7" H X 9.75" W.
- PICTOGRAMS AND LETTERS SHALL BE CONTRASTING COLOR.
- COMPLY WITH CABO/ANSI A117.1-1998 SECTION 703 SIGNAGE.
- RESTROOM SIGNAGE TO BE MODEL S464 BY MODA
- ROOM ID SIGNAGE TO MODEL S465 BY MODA

**SIGNAGE**



**SIGN MOUNTING LOCATION**

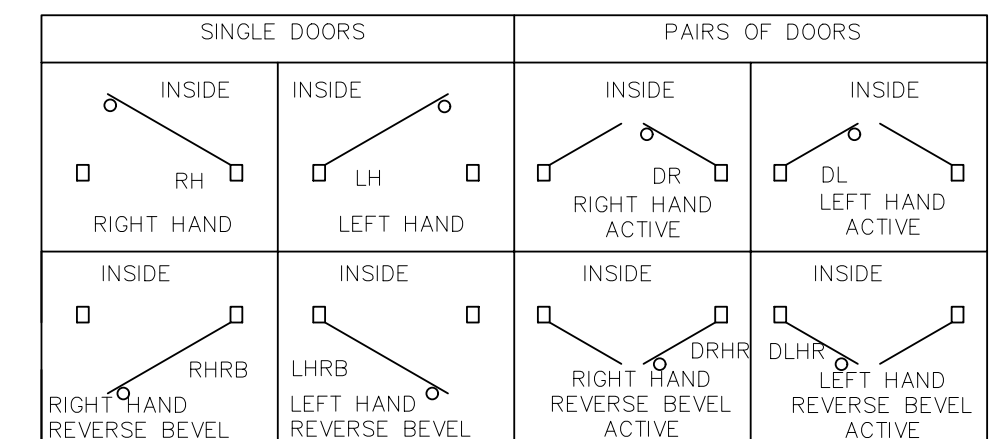
SCALE: 1/4"=1'-0"



**BARRIER FREE DOOR APPROACH**

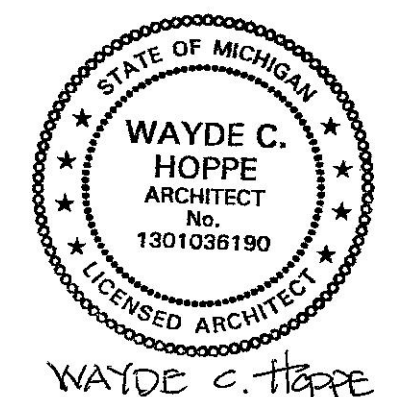
SCALE: 1/4"=1'-0"

- ALL HARDWARE @ ALUM DOORS BY ALUM DOOR SUPPLIER. HARDWARE BASED ON "KAWNEER"; MFG TO SUPPLY CYLINDER.
- ALUM DOOR HARDWARE SHALL MATCH DOOR FINISH.
- ALUM DOORS AND DOOR FRAMES SHALL BE KAWNEER "HEAVY WALL" OR EQUAL, 0.188" WALL THICKNESS.
- ALUM DOORS AND FRAMES SHALL BE GLAZED WITH TEMPERED GLASS. EXTERIOR DOORS AND FRAMES SHALL BE 1" INSULATED GLASS.
- ALL HW OR WOOD DOORS AND FRAMES SHALL BE GLAZED WITH TEMPERED GLASS, EXCEPT FIRE RATED DOORS AND FRAMES.
- FIRE RATED DOORS AND FRAMES SHALL BE GLAZED WITH LABELED FIRE/SAFETY RATED GLASS TO MATCH FIRE RATING AND AS FOLLOWS: 20 & 45 MIN - 1296 SQ IN MAX GLASS SIZE. 60 & 90 MIN - 100 SQ IN MAX GLASS SIZE.
- FIRE RATED DOORS TO HAVE STEEL BALL BEARING HINGES.
- WOOD DOORS TO BE 1 3/4" THICK.



- HARDWARE SET #1**
- 3 HINGES: HAGAR, BB1279 US26D 4 1/2" X 4 1/2"
  - 1 CLOSER: LCN, RW-PA TB 689 ALUM
  - 1 EXIT DEVICE: VON DUPRIN, 997SL-L-M-03-4-US26D
  - 1 THRESHOLD: NATIONAL GUARD, 513 ALUM
  - WEATHERSTRIP: NATIONAL GUARD, 190V
  - 1 SWEEP: NATIONAL GUARD, 601A W/ ADJUSTING CAPABILITY
  - 1 CYLINDER: SAME AS MANUFACTURER OF EXIT DEVICE - MATCH KEYING SYSTEM

- NOTES**
- PROVIDE DENS SHIELD BOARD BEHIND ALL LITE APPLICATIONS.
  - PROVIDE WATER RESISTANT GREEN BOARD AT ALL BATHROOM APPLICATIONS.



WAYNE C. HOPPE

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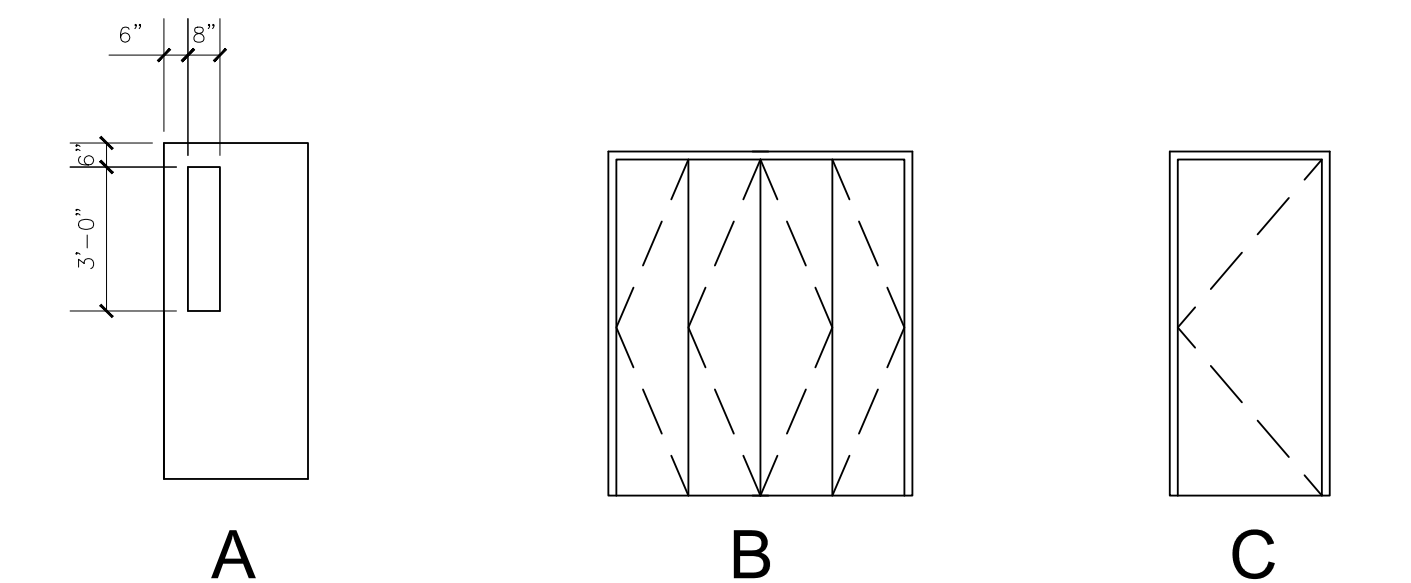
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**SCHEDULES**

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**A501**

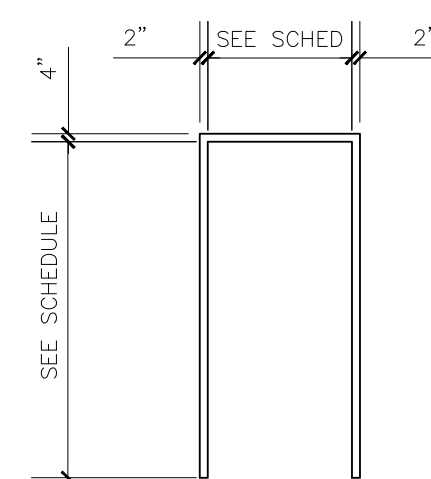
VERIFY ALL DIMENSIONS IN FIELD



**DOOR TYPES**

SCALE: 1/4" = 1'-0"  
ALL WINDOW GLAZING TO BE TEMPERED.

- LITE @ DOORS W/ RATING AT 60 MIN OR GREATER
- 4" X 24" LITE DIMENSION MAXIMUM
  - FIRE RESISTANCE RATED GLAZING TO BE D-H-W-240 CERAMIC GLAZING
  - TO BE LABELED BY INTERTEK OR UL





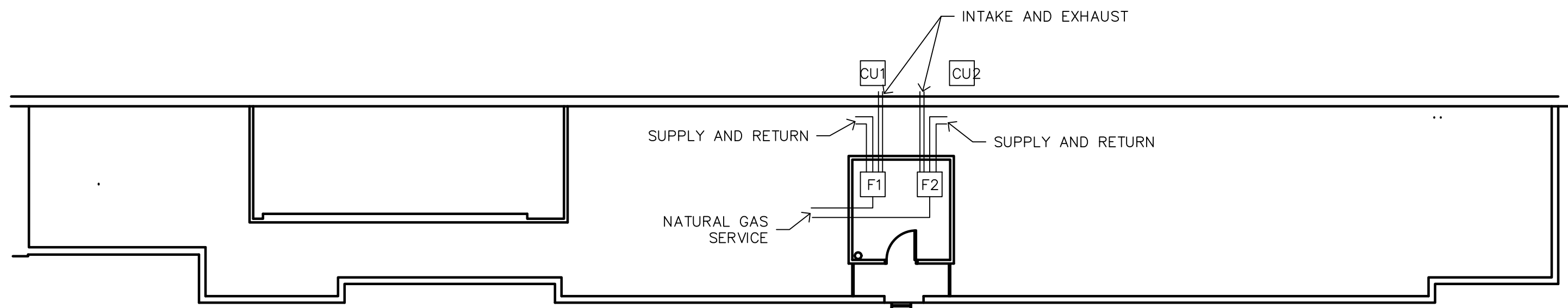
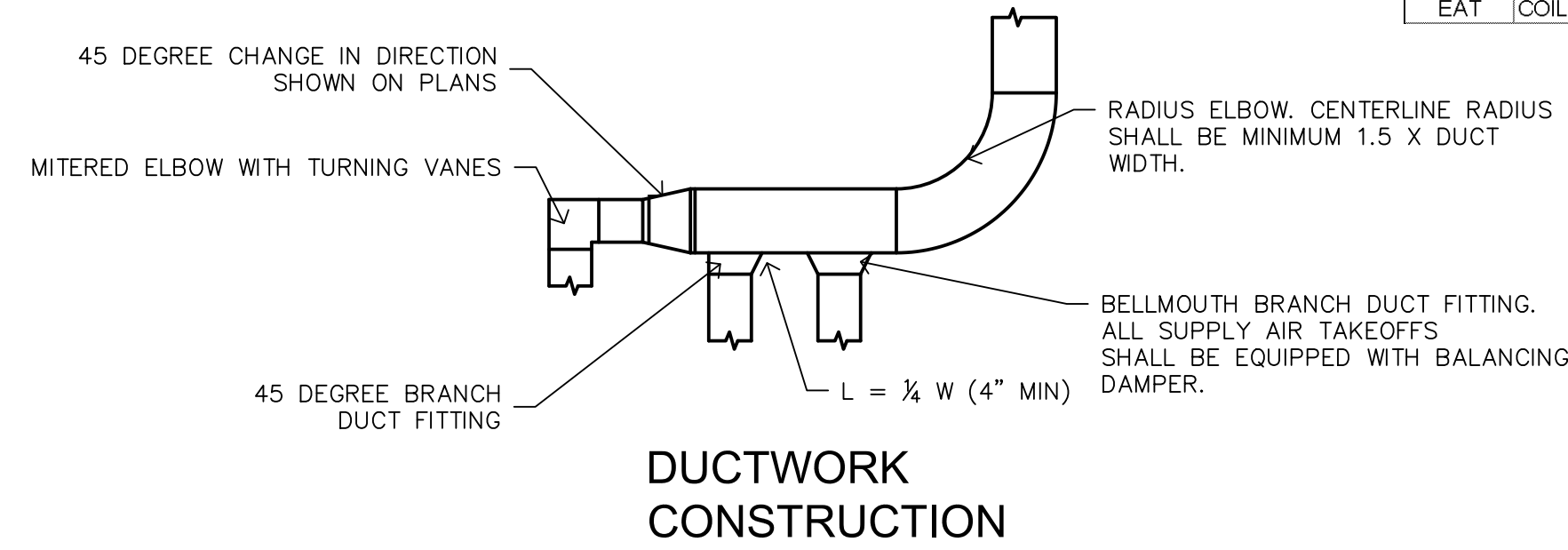
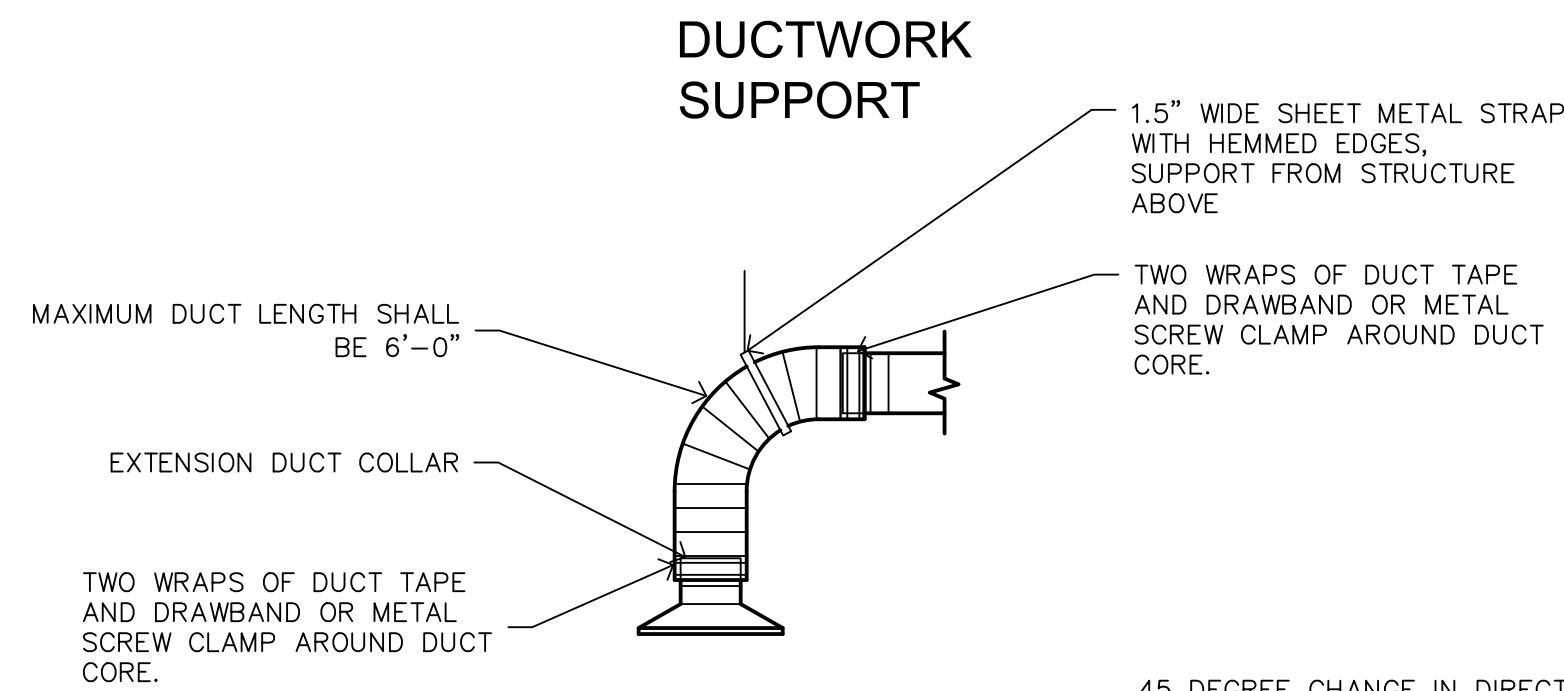
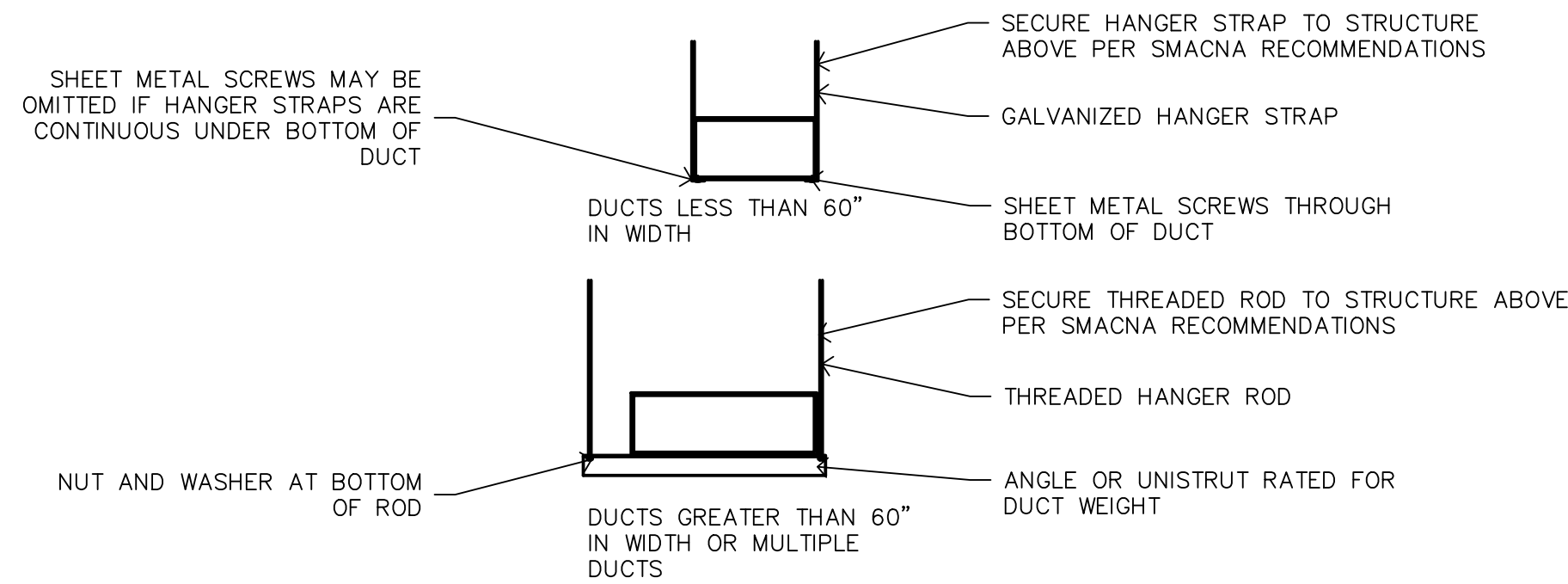
**MECHANICAL KEYNOTES**

**MECHANICAL NOTES**

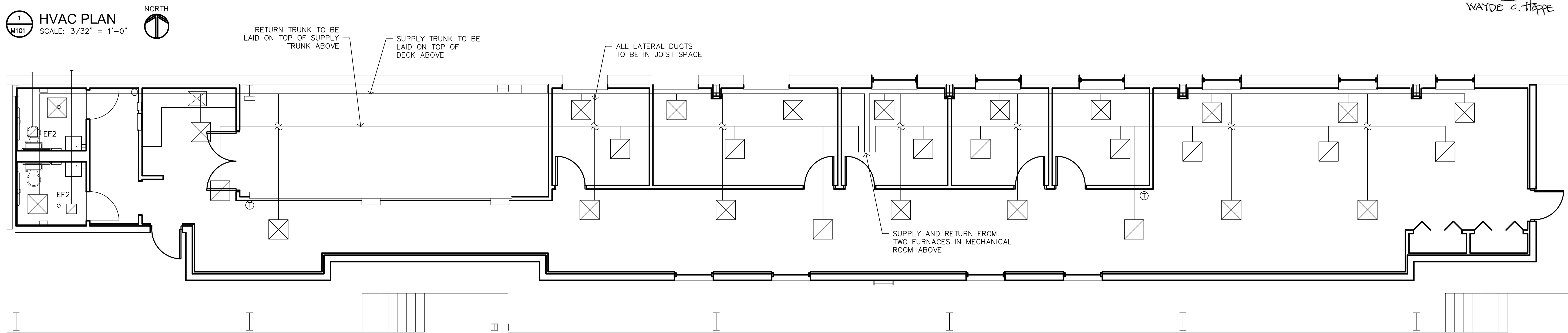
- ALL WORK IS TO BE PROVIDED AND PERFORMED ACCORDING TO ALL STATE AND LOCAL CODES.
- ALL EXHAUST OUTLETS AND OUTSIDE AIR INLETS SHALL BE A MINIMUM OF 15' APART.
- EQUIPMENT NOISE SHALL NOT EXCEED 55 DECIBELS AT THE LOT LINE.
- ALL DUCT WORK SHALL BE FABRICATED OF SHEET METAL AND IN ACCORDANCE WITH SMACNA STANDARDS.
- 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.
- PROVIDE MANUAL VOLUME DAMPER IN EACH BRANCH FOR BALANCING.
- PROVIDE FIRE DAMPER WHERE THE DUCT PENETRATES THROUGH FIRE WALL.
- RUN CONDENSATE LINE TO THE NEAREST FLOOR DRAIN.
- CONTRACTOR TO FURNISH, LOCATE AND INSTALL THERMOSTAT FOR EACH ZONE.
- INSTALL GAS PIPING, SIZES AS SHOWN.
- EXISTING GAS PRESSURE TO BE VERIFIED BY THE CONTRACTOR AND SIZE GAS PIPING ACCORDINGLY.
- DISCONNECT SWITCH SHALL BE PROVIDED WITH ALL UNITS.
- PIPE SIZES ARE BASED ON 1# PRESSURE, CONTRACTOR TO FIELD VERIFY EXISTING GAS PRESSURE. VERIFY GAS PIPE SIZES, RESIZE IF NECESSARY.
- CONTRACTOR TO PROVIDE GAS PRESSURE REGULATOR MAXITROL 325 SERIES FROM 1# DOWN TO 7" TO CONNECT GAS INLET OF HVAC UNITS OR AS RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT.
- CONTRACTOR SHALL ADD CAPACITY REQUIRED FOR ANY APPLIANCES.
- 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.
- MECHANICAL DRAWINGS ARE SCHEMATIC ONLY. HVAC CONTRACTOR IS RESPONSIBLE TO LOCATE PATH OF NEW DUCTWORK TO OPTIMIZE SUPPLY AND RETURN.
- THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE NEW ROOM TEMPERATURE SENSORS AND ALL NEW CONNECTIONS TO THE THERMOSTATS.
- PROVIDE DUCT DETECTORS AS REQUIRED BY CODE.

**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



**1 HVAC PLAN**  
M101 SCALE: 3/32" = 1'-0"



**1 HVAC PLAN**  
M101 SCALE: 3/16" = 1'-0"

TYPE	MANUFACTURER	CATALOG NO.	CFM	EST E.S.P.	VOLTS/ PHASE	MOTOR	ACCESSORIES
EF-1	COOK	GC144	150	0.5	120/1	98W	DM, GBD, CG, RC, HK
EF2	COOK	GC75	75		120/1		DM, GBD, CB, 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			

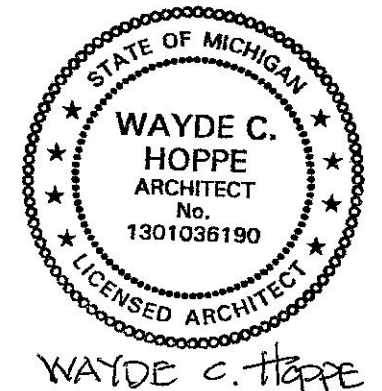
TYPE	MANUFACTURER	CATALOG NO.	APP	FINISH	FRAME TYPE	VOLUME DAMPER	MAX NC (DB)	MIN THROW (FT)	MAX THROW (FT)	MAX PRESS. DROP
A	TITUS		SUP	WHITE	T-BAR/ FLANGE	YES	30	8	24	0.1
B	TITUS		RET	WHITE	FLANGE	NO	30	-	-	0.1
C	TITUS		SUP	WHITE	FLANGE	NO	30	23	60	0.1

E: EXH EXHAUST      R: RET RETURN      S: SUP SUPPLY

1 THROWS ARE BASED ON 50 FEET PER MINUTE VELOCITY  
 2 OPPOSED BLADE DAMPERS SHALL BE PROVIDED ON ALL DIFFUSERS REQUIRING DOLUME DAMPERS  
 3 PROVIDE T-BAR OR FLANGE FRAME AS NOTED BY 'T' OR 'F' DESIGNATION IN DIFFUSER TAG ON PLANS

TYPE	MANUFACTURER	CATALOG NUMBER	CFM	BLOWER		HEATER		ELECTRICAL	
				OA CFM	E.S.P.	HP	MBH/EFF	VOLTS/PH	
F1	TRANE	TUHMD120ACV5VA	2000	300	0.5	1	120	120/1	
F2	TRANE	TUHMD120ACV5VA	2000	300	0.5	1	120	120/1	
CH	CRANKCASE HEATER								
LA	LOW AMBIENT CONTROL								
CB	CIRCUIT BREAKER								
T	WALL MOUNTED 7 DAY PROGRAMMABLE THERMOSTAT								
EFF	EFFICIENCY								
OA	OUTSIDE AIR								
EAT	COIL ENTERING AIR TEMPERATURE								

TYPE	MANUFACTURER	COOLING EAT		CLG CAPACITY		CONDENSING UNIT	
		DB	WB	SENS	TOTAL	MODEL NUMBER	VOLTS/PH
CU1	TRANE					4TTVOX36A1000A	208/230/1
CU2	TRANE					4TTVOX36A1000A	208/230/1
CH	CRANKCASE HEATER						
LA	LOW AMBIENT CONTROL						
CB	CIRCUIT BREAKER						
T	WALL MOUNTED 7 DAY PROGRAMMABLE THERMOSTAT						
EFF	EFFICIENCY						
OA	OUTSIDE AIR						
EAT	COIL ENTERING AIR TEMPERATURE						
EST	DOES NOT INCLUDE FILTER LOSS						



OFFICE RENOVATIONS TO CONTRACTORS STEEL

48649 SCHOONER DR., VAN BUREN TWP., MI 48111

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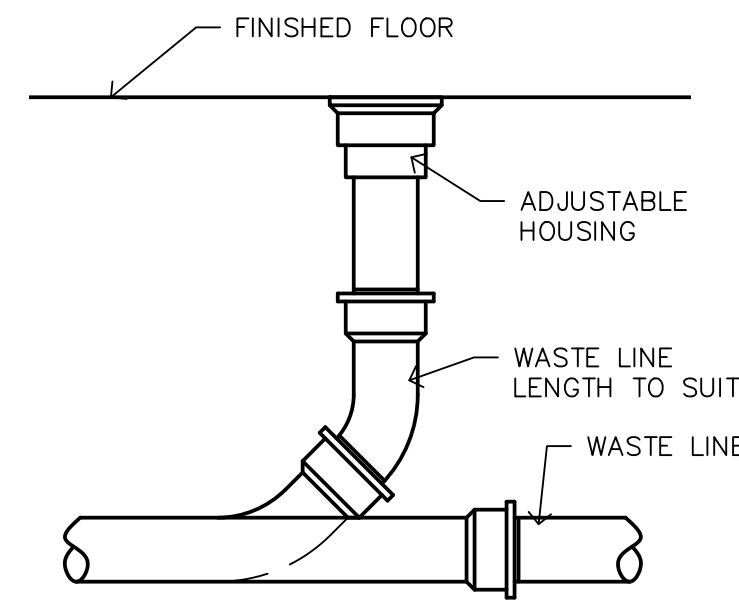
**HVAC PLANS**

**M101**

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**LEGEND**

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- NEW SMOKE DAMPER
- EXIST. COMB. FIRE SMOKE DMFR
- NEW COMB. FIRE/SMOKE DMFR
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE



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

**PLUMBING FIXTURE SCHEDULE**

TAG	MFR	MODEL NAME AND DESCRIPTION	FITTINGS	FLOW	WSFU'S				DFU'S				REMARKS	COLOR	
					C	H			W	V	CW	HW			
WC1	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										BARRIER FREE COMPLIANT; EXPOSED TOP SPUD CONNECTION; ZURN Z1201 SERIES CLOSET CARRIER, 500 LB SEAT CAPACITY	WHITE
SK-1	ELKAY	LR3319	K-15571 FAUCET, LK-35 STRAINER, CR-19 STOPS AND SUPPLES, 17 GA. C.P.P. TRAP											3 FAUCET HOLES	
LAV1	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"	1/2"			BARRIER FREE COMPLIANT; BARRIER FREE TRAP, TRUEBRO LAV GUARD HW INSUL. KIT; SOLID BRASS FAUCET, Z1231 LAV CARRIER WITH UPRIGHTS	WHITE
CO	ZURN	Z415-SZ1													
FD-1	ZURN	Z415-BZ													
GARB															
DISPD															
SAL	ISE	PRO-333												1/ HP, 120/1/60	

**WATER HEATER\_B**  
TANKLESS ELECTRIC WATER HEATER RHEEM RTEX-06, 1 GPM AT 37 DEGREES TEMPERATURE RISE, 220V/6KW/25A/10AWG 1/2" NPT

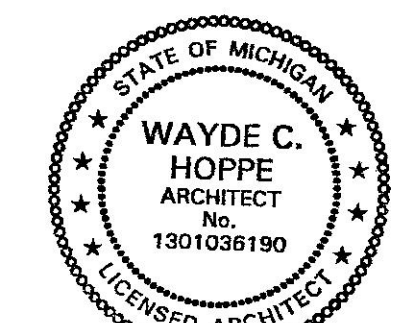
**PLUMBING NOTES**

- 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.
- THE PLUMBING DRAWINGS ARE SCHEMATIC ONLY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL LAYOUT AND ROUTING OF PIPING.
- NO PLUMBING PIPING SHALL BE ROUTED OVER ELECTRICAL PANELS.
- PLUMBING CONTRACTOR SHALL CONTACT THE SERVICE PROVIDER AND ARRANGE FOR NEW GAS SERVICE CONNECTION.
- PLUMBING CONTRACTOR SHALL CONTACT THE MUNICIPAL AUTHORITY TO ARRANGE FOR NEW WATER SERVICE CONNECTION.
- PROVIDE CLEANOUTS AT THE BASE OF ALL BASE STACKS, CHANGES IN DIRECTION GREATER THAN 45 DEGREES, AND 50 FEET ON CENTER FOR STRAIGHT RUNS.
- ALL PLUMBING SHALL COMPLY WITH BARRIER FREE REQUIREMENTS.
- PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS.
- WRAP ALL WATER PIPING WITH INSULATED PIPE WRAP.
- ALL LAMBS TONGUE DISCHARGE TO BE 36" ABOVE ADJACENT GRADE.
- PLUMBING CONTRACTOR TO VERIFY MICHIGAN PLUMBING CODE AND COUNTY HEALTH DEPARTMENT REQUIREMENT FOR BACKFLOW PREVENTERS, CHECK VALVES, VACUUM BREAKERS, AND INDIRECT WASTEWATER CONNECTIONS.

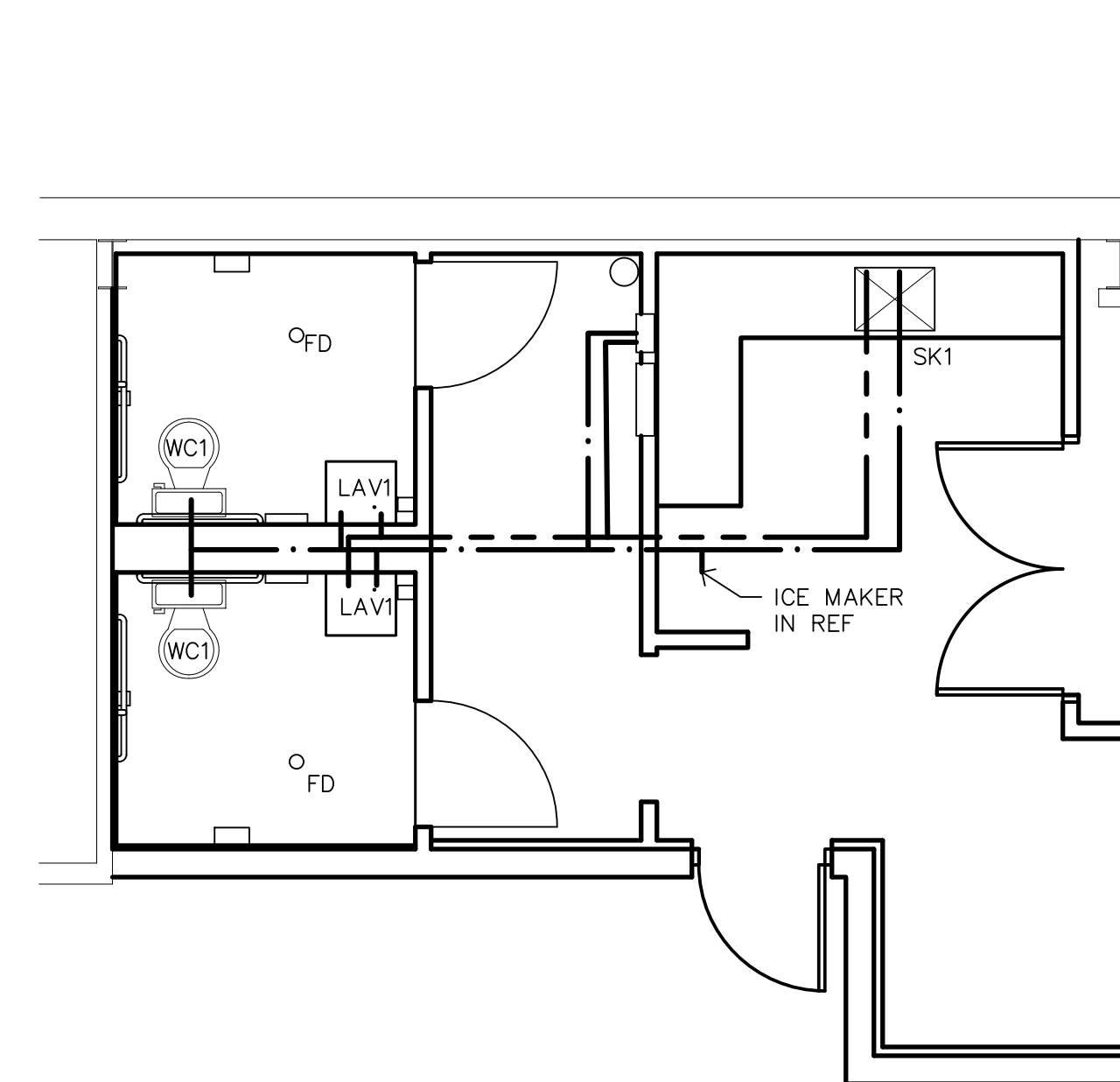
**PLUMBING PIPING REQUIREMENTS**

	HW	CW	WASTE
WATER CLOSET TANK	-	1"	3"
WATER CLOSET FLUSH VALVE	-	1"	3"-4"
URINALS	-	2"	2"
SERVICE SINK	1/2"	1/2"	3"
ELECTRIC WATER COOLER	-	1/2"	1 1/2"
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"

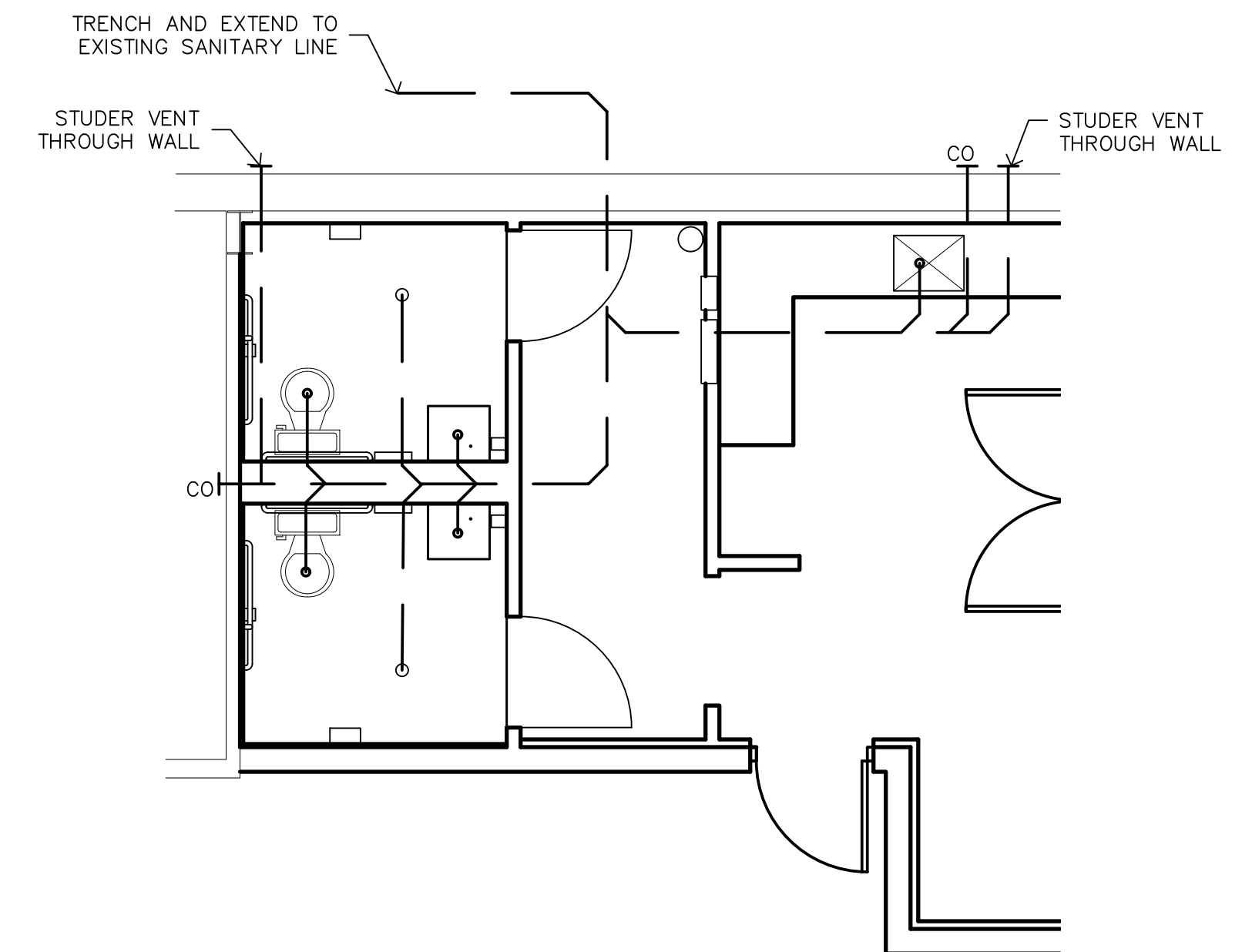
NOTE: PIPE SIZES SHOWN ARE MINIMUM STANDARD. PC SHALL VERIFY VARIANCES ON PLAN.



WAYDE C. Hoppe



**2 SUPPLY PLAN**  
SCALE: 1/4" = 1'-0"



**1 SANITARY PLAN**  
SCALE: 1/4" = 1'-0"

SAWCUT EXISTING SLAB FOR NEW UNDERGROUND SANITARY PIPING. INSTALL NEW 4 REINF CONCRETE SLAB ON VB ON COMPACTED BASE

**PLUMBING PLANS**

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

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**P101**

**VERIFY ALL DIMENSIONS IN FIELD**

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CONTRACTORS STEEL**  
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**ELECTRICAL KEYNOTES**

1. OCCUPANCY SENSOR EQUAL TO WATTSTOPPER ST-200

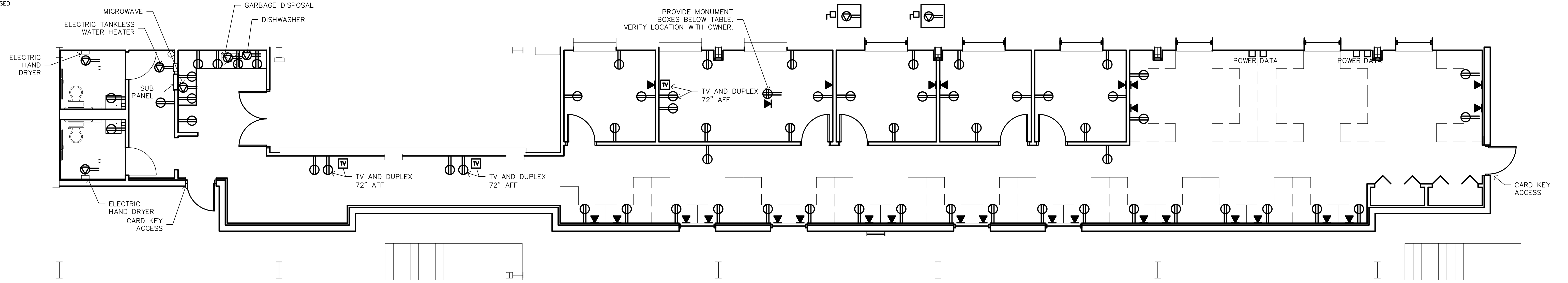
**LEGEND**

- 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
- COMPUTER JACK
- RATE OF RISE HEAT DETECTOR
- DISCONNECT SWITCH
- DISCONNECT SWITCH WITH FUSE
- AUDIO JUNCTION BOX- PRE-WIRE PER DIRECTION OF OWNER

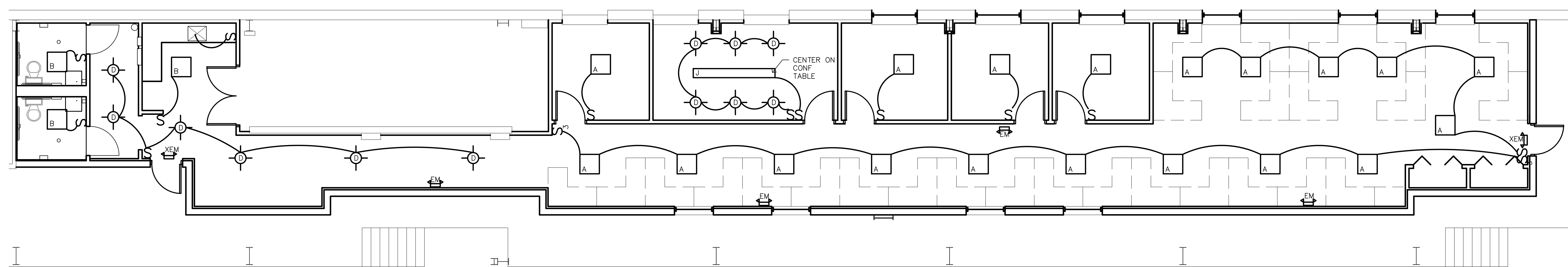
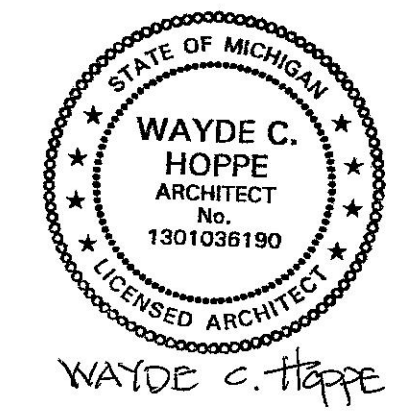
LIGHT FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS	NO-WATTS	MOUNTED	REMARKS
A	LITHONIA	2BLT2BA4 E21 AD5M 40L	LED	120	LAY IN SUSPENDED, LAY IN, SURFACE	LP835 82CRI, 3500K 2X2
B	LITHONIA	EPANL 2X2 3400 LMHE 80 CRI 35K MIN1	LED			POLYCARBONATE LENS
C	LITHONIA	LDN6 35 10 LW6 AR LSS MVOLT EZ1	LED	10.44-120	RECESSED	
D	LITHONIA	6JBK ADJ 30K 90CRI MW	LED	10.8-120	RECESSED	
E	BRUCK	MAGNUM 2 CHROME 1100 CRI 98 3000K	LED	11.9-120	SURFACE	
EM	LITHONIA	ELM4L 120V/3 15W/ 032AMP5				
XEM	LITHONIA	ECRGHO RD M6 120V/2 8W/ 05AMP5 3.6V BATTERY				
F	LITHONIA	WF8 LED 30K MVOLT 90CRI MW				
G	LITHONIA	WPX1 LED P2 40K MVOLT DDBXD M4				
H	LITHONIA	EPANL 1X4 3000LM 80CRI 35K MCOLT E10WCP 1X4SMKSH				
J	EATON	DSI-WS-2L35-LD2-1D-INV-AC-T9-STD-SW-W	LED		PENDANT	

**ELECTRICAL NOTES**

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE N.E.C., COUNTY AND LOCAL CODES, ORDINANCES, AND REGULATIONS INCLUDING MIO5HA.
2. COORDINATE ALL UNDERGROUND WORK WITH NEW AND EXISTING UNDERGROUND UTILITIES BEFORE INSTALLATIONS.
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.
- 7.
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.
12. WIRE SIZE SHALL BE #12 (MINIMUM) AND CONDUIT SIZE SHALL BE 3/4" (MINIMUM) FOR ALL POWER AND LIGHTING CIRCUITS WHERE NOT SIZED ON THE DRAWINGS.
13. INSTALL SEPARATE GROUNDING CONDUCTOR TO ALL ISOLATED GROUND RECEPTACLES.
14. LOCATE JUNCTION BOXES PER MANUFACTURER'S REQUIREMENTS.
15. EXHAUST FANS TO BE PROVIDED WITH SPEED CONTROL LOCATED ABOVE THE CEILING. PROVIDE A SWITCH WITH A PILOT LIGHT.
16. VERIFY LOCATION OF ALL POWER, PHONE, AND DATA JUNCTION BOXES WITH THE OWNER.
17. PROVIDE 3/4" METAL CONDUIT AT ALL DATA BOXES, STUBBED INTO PLENUM SPACE. PROVIDE PULL WIRE.
- 18.
- 19.
20. INTERLOCK COMBUSTION AIR FANS OF FURNACE WITH HEATING CYCLE OF FURNACE. EACH FURNACE CIRCUIT SHALL POWER THE FURNACE MOTOR, THE COMBUSTION AIR FAN AND THE HUMIDIFIER. PROVIDE ALL SWITCHES, CONDUIT, WIRING, ETC., FOR A COMPLETE SYSTEM.
21. ELECTRICAL CONTRACTOR TO COMPLY WITH NEC SECTION 110-(A) AND (B) AND ALL TERMINATION CODE REQUIREMENTS.
22. EC TO SIZE ALL WIRING, CIRCUITING, JB'S, BREAKERS, SUB PANELS, ETC., TO PROVIDE A COMPLETE SYSTEM.
23. ELECTRICAL DRAWINGS ARE SCHEMATIC ONLY. EC IS RESPONSIBLE TO DETERMINE THE FINAL CONDUIT AND WIRING LAYOUT.



**1 POWER PLAN**  
 SCALE: 3/16" = 1'-0"  
 ALL OUTLETS IN TOILET ROOMS AND KITCHEN TO BE GFI PROTECTED



**2 LIGHTING PLAN**  
 SCALE: 3/16" = 1'-0"

**OFFICE RENOVATIONS TO CONTRACTORS STEEL**  
 48649 SCHOONER DR., VAN BUREN TWP., MI 48111

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

REVISIONS

PROJECT: 2212  
 DATE: 8.31.22  
 DRAWN: WCH  
 CHECKED: WCH

**VERIFY ALL DIMENSIONS IN FIELD**