

# Sheet Index

AG-100 TITLE SHEET

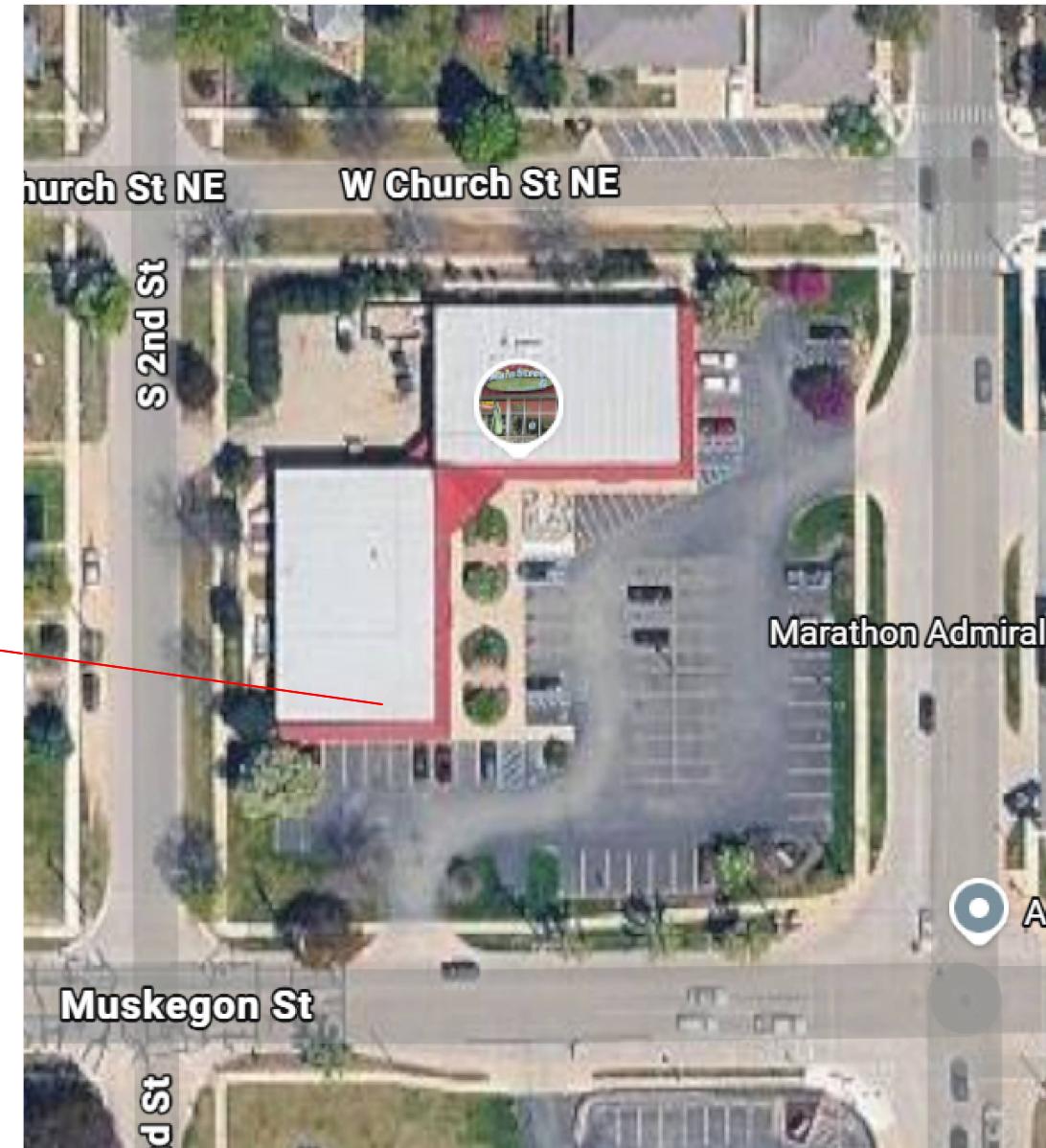
C-1 SITE PLAN

AD-101 DEMO PLAN

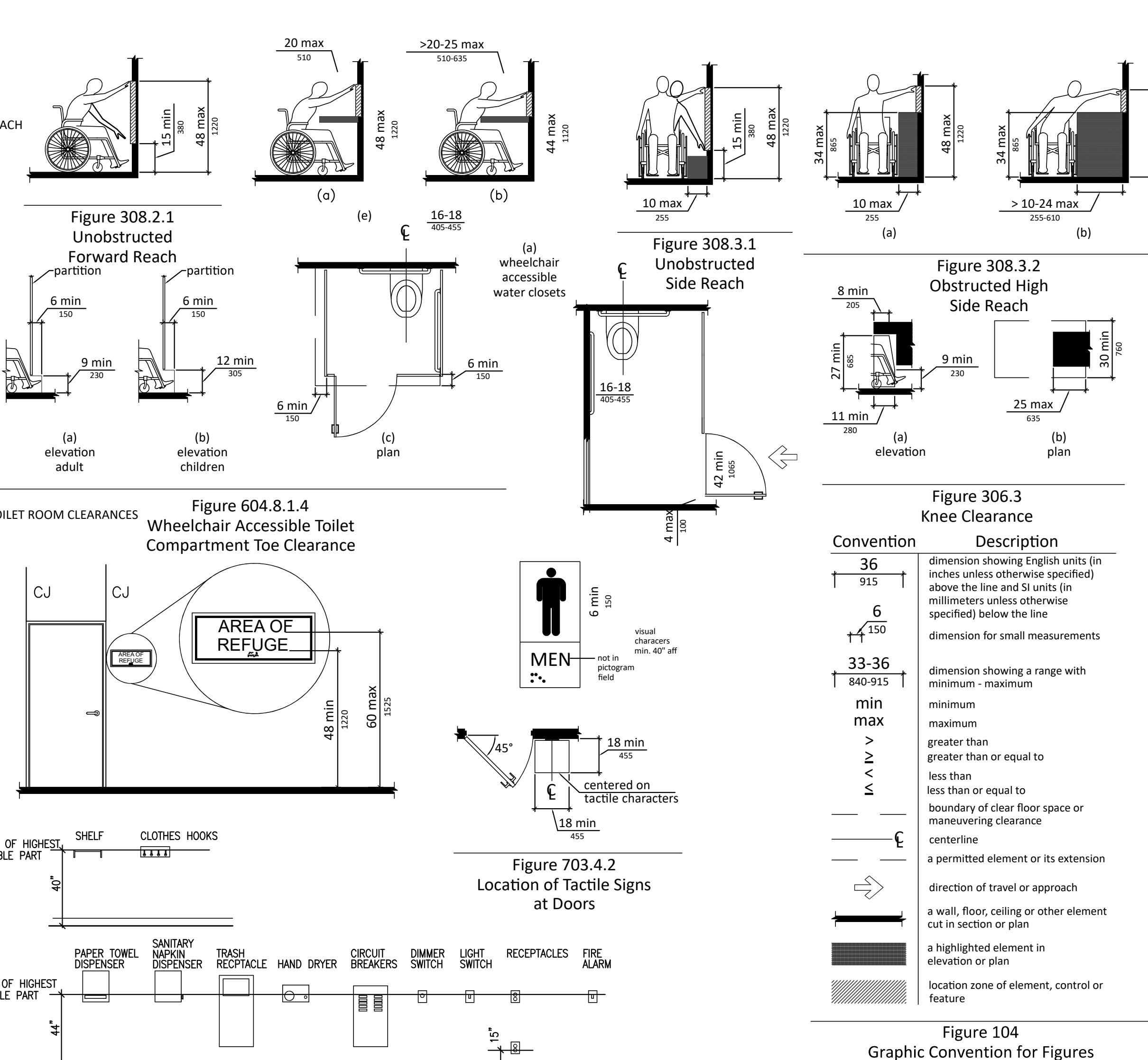
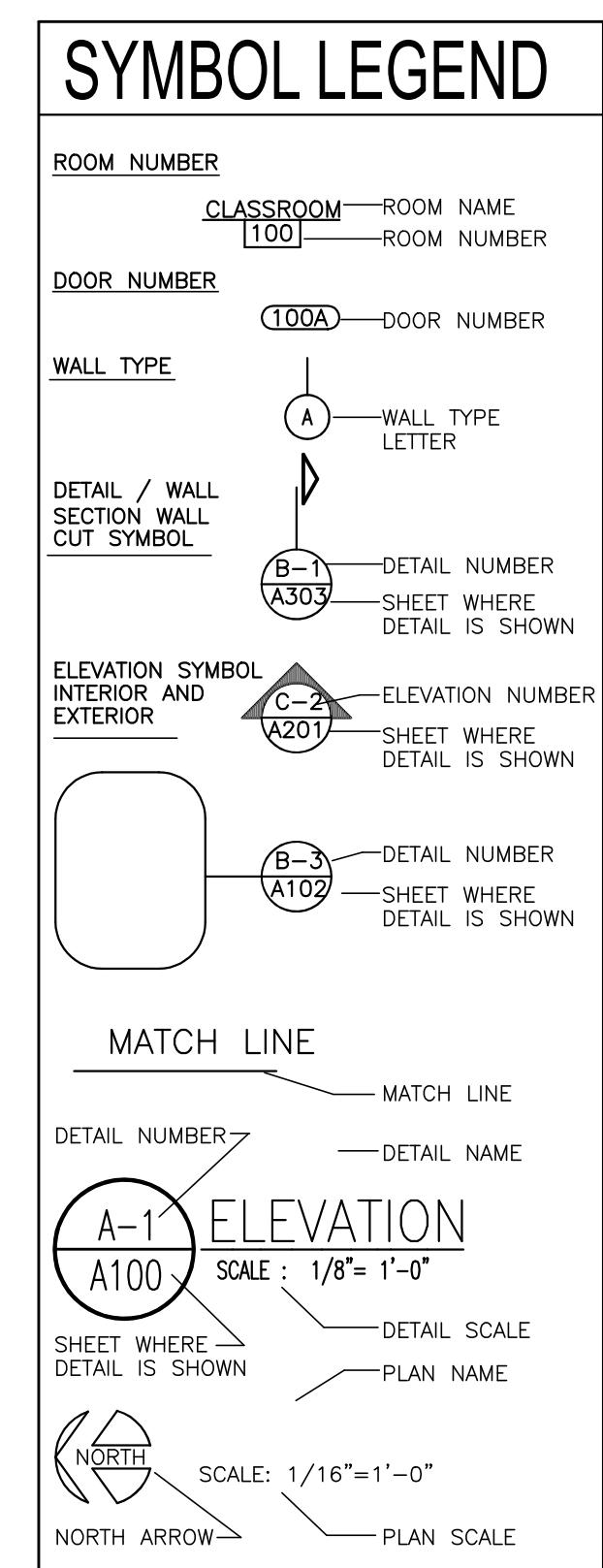
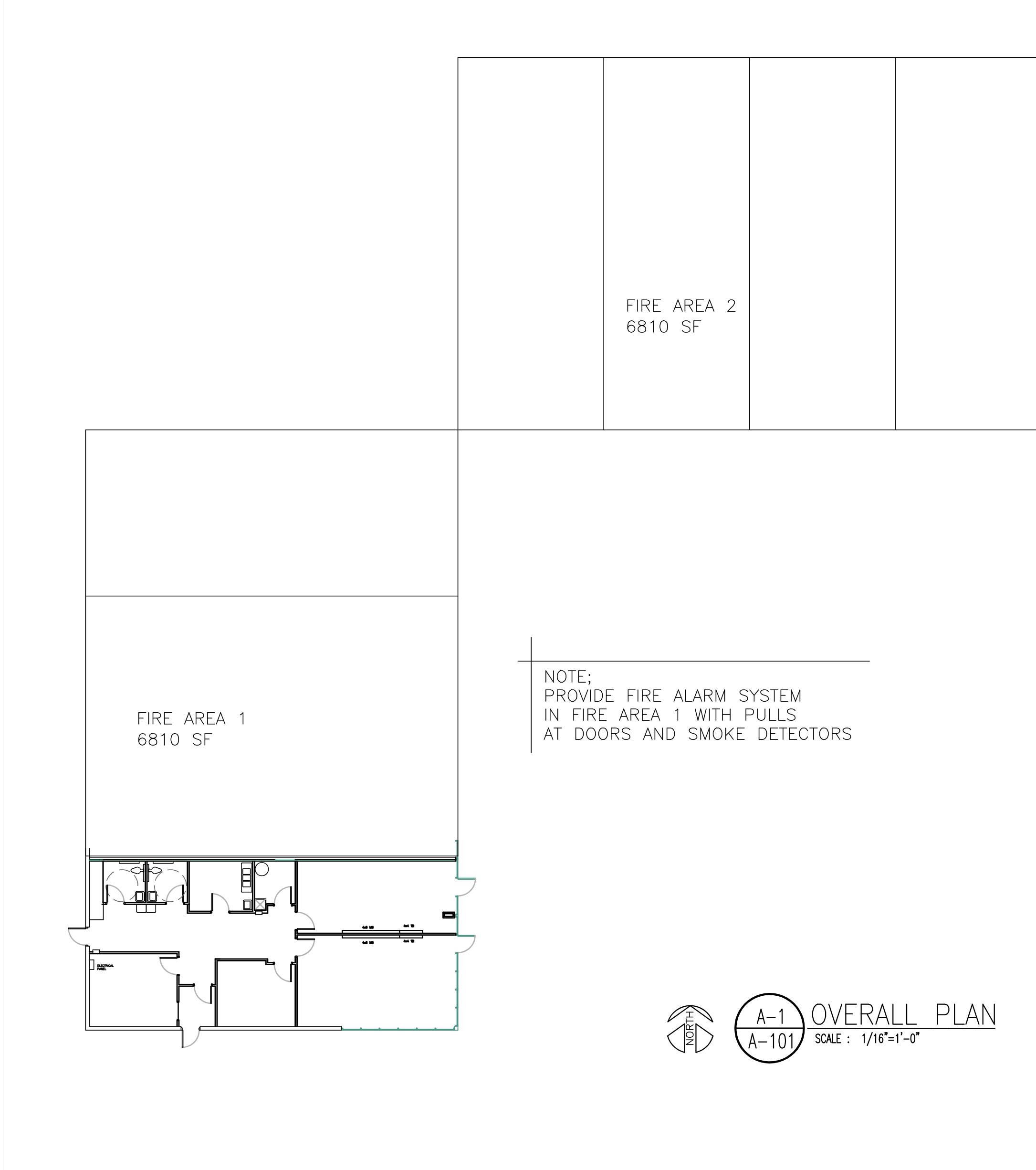
A-101 FLOOR PLAN

A-102 CEILING PLAN

A-301 INTERIOR DETAILS AND FINISHES



**SITE MAP**  
A-3 A-101 SCALE : 1:1000



## CODE INFORMATION

APPLICABLE CODES:	BUILDING CODE	MICHIGAN BUILDING CODE 2021					
	FIRE CODE	NFPA 101 2012					
	PLUMBING CODE	MICHIGAN PLUMBING CODE 2021					
	MECHANICAL CODE	MICHIGAN MECHANICAL CODE 2021					
	ELECTRICAL CODE	MICHIGAN ELECTRICAL CODE 2023					
CHAPTER 5	ALLOWABLE HEIGHT AND BUILDING AREA	ACTUAL 6810 SF					
	GROUP	TYPE OF CONSTRUCTION					
TABLE 503	E	TYPE II (B)					
MICHIGAN SCHOOL RULES	TYPE II(000)	2 STORY ??' 14,500 SF					
CHAPTER 8	NECESSARY AFFIDAVITS WILL BE PROVIDED TO THE INSPECTOR	VERTICAL EXITS CORRIDORS ROOMS					
TABLE 803.5 FLAME SPREAD REQUIREMENTS	B	C C					
NFPA 101							
CHAPTER 9	FIRE ALARM REQUIRED	FIRE PROTECTION REQUIRED	FIRE EXTINGUISHER NUMBER	TRAVEL			
	2-A PER 3000 SF	(2)4-A	75 FEET MAX				
CHAPTER 10	OCCUPANT LOAD	CALCULATED	AFFIDAVIT FOR PLUMBING				
CLASSROOMS	1:20	48	48				
READING/VOCATION	1:50						
OFFICE AREAS	1:100	2	2				
ASSEMBLY	1:7						
TOTAL		50	50				
CHAPTER 29	EGRESS WIDTH	MINIMUM CORRIDOR WIDTH 6 FEET DOOR CAN NOT REDUCE 1/2 REQUIRED WIDTH IN COURSE OF SWING FULL OPEN NO MORE THAN 7" INTO EGRESS					
EGRESS ILLUMINATION	1 FOOT CANDLE	1:40 MIN TO MAX					
POINT TO POINT CALCULATIONS	ARE PROVIDED ON THE ELECTRICAL PLANS						
EXITS	REQUIRED (.2" PER OCCUPANT)	PROVIDED					
	1 EXITS - 34"	3 EXITS - 102					
	EXIT LENGTH 250' TRAVEL DISTANCE						
PLUMBING FIXTURES	OCCUPANCY	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK		
	EDUCATIONAL	1:50	1:50	1 PER 50	1 PER 100	1 SERVICE SINK	
	OFFICE			1:25	1 PER 40	1 PER 500	1 SERVICE SINK
	ASSEMBLY	1:125	1:65	1 PER 200	1 PER 500	1 SERVICE SINK	
CHAPTER 30	ACTUAL NUMBER OF OCCUPANTS	50					
Fixture Required	1	1	2	2	1		
Fixtures Provided	1	1	2	2	1		
URINAL SHALL NOT BE SUBSTITUTED FOR MORE THAN 67% OF WATER CLOSETS							

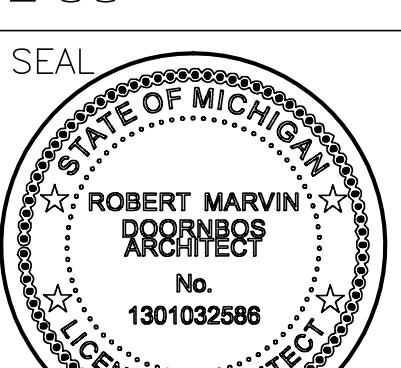
## ABBREVIATIONS

ACT	Acoustical Ceiling Tile
AFT	Above Finished Floor
ALUM	Aluminum
BLDG	Building
CONC	Concrete
CP	Carpet
EAT	Eating
ELEM	Elementary
FRP	Fibre-Reinforced Plastic
FRT	Fire Retardant Treated
GB	Gypsum Board
GYP	Gypsum Board
HM	Hollow Metal
INSUL	Insulated
K	Kindergarten
LE	Lower Elementary
LB	Load Bearing
M.S.	Middle School
MAX	Maximum
MECH	Mechanical
MIN	Minimum
NLB	Non Load Bearing
O.C.	On Center
OSB	Orientated Strand Board
PT	Panel
SPEC	Specifications
ST	Stain
T&B	Top and Bottom
TOP	Typical
U.E.	Upper Elementary
VCT	Vinyl Composite Tile
W/	With
WD	Wood

**RMD**  
ARCHITECTS

616 677 5997 OFFICE  
616 813 2452 MOBILE  
RMD@RMDArchitects.net  
1744 MARINE ESTATES DR.  
TALLMADGE TOWNSHIP, MI 49435

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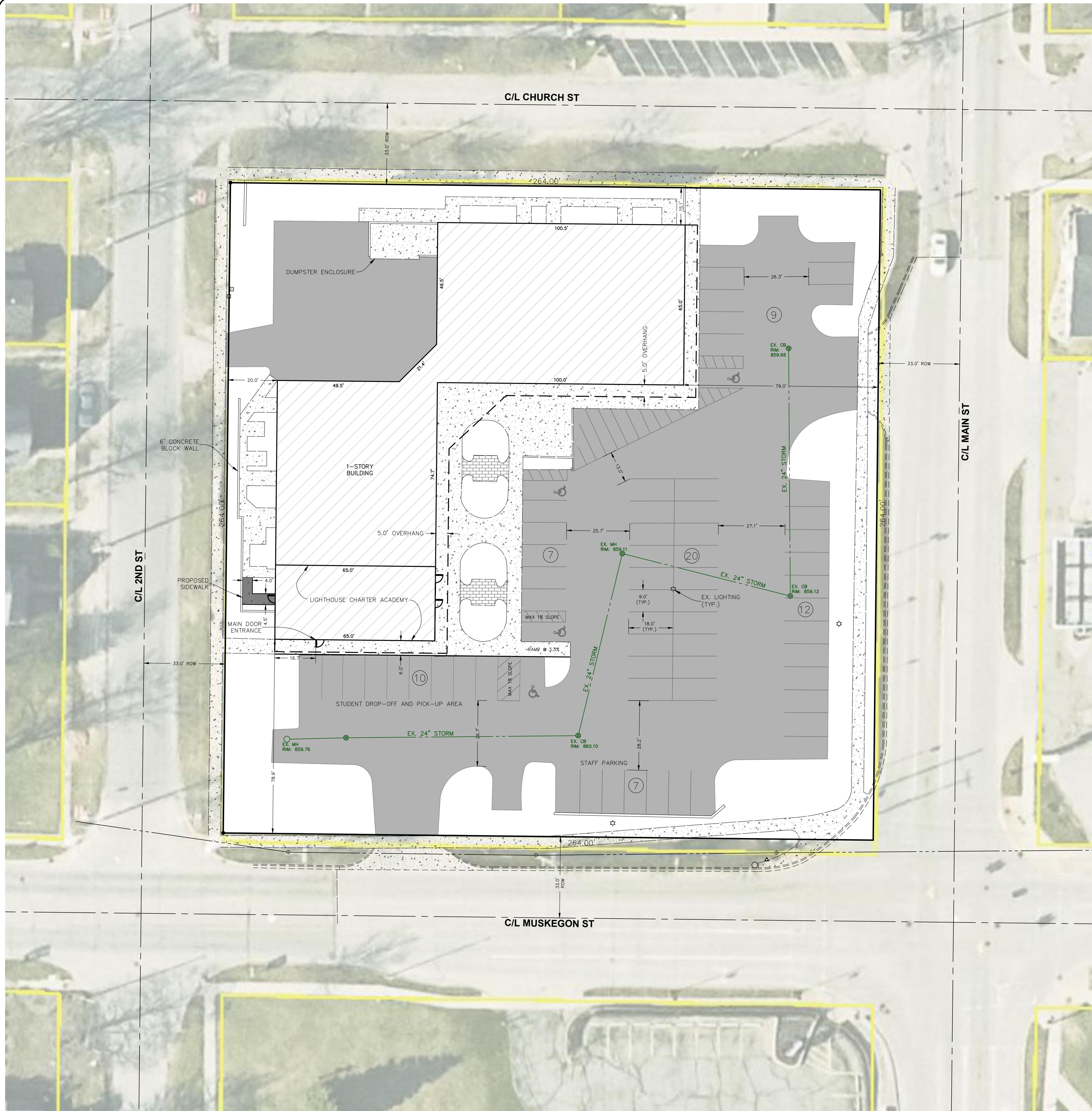


PROJECT NUMBER  
**LHN 0226**

SHEET NUMBER  
**AG-100**

SHEET NAME  
**CODE INFO**

**LIGHTHOUSE NORTH**  
**151 S MAIN**  
**CEDAR SPRINGS MICHIGAN 49319**



## PROPERTY DESCRIPTION:

PPN# 41-02-25-489-013  
 151 S Main St NE  
 Owner: Stampede Investment Group LLC  
 PO Box 1649  
 Destin, FL 32540

Lots 1 through 8 inclusive, Block 67 of the Replotting of the Village of Cedar Springs, (now City), Kent County, Michigan, as recorded in Liber 2 of Plots, Page 74.

Contains 69,716 SF or 1.60 Acres

### Project Narrative:

Lighthouse Charter Academy will be leasing the south portion of the existing building to be used for two classrooms. There will be 4 staff members and a maximum of 30 students.

## GENERAL NOTES:

- Driveway:** All existing driveways and impervious surfaces are to remain intact. No driveway improvements are proposed.
- Wetlands:** No wetlands are identified as existing on the proposed site.
- Soil Erosion:** No grading changes or changes to existing soils which may cause increased soil erosion are proposed.
- Flood Zone:** By graphic plotting only, this property is in Zone "C" of the Flood Insurance Rate Map, Community Panel No. 26081C0181D, which bears an effective date of 02/23/2023 and is not in a special flood hazard area. Zone "C" denotes "Areas located outside of a designated Flood Hazard Area".
- Water Supply:** The existing building is serviced by public water.
- Sanitary/Septic System:** The existing building is serviced by public sewer.
- Storm Drainage:** Existing storm drain infrastructure to remain intact. No changes to existing storm drains are proposed.
- Fire and Emergency Access:** Existing parking lot to remain. No changes to existing Emergency Fire Access infrastructure are proposed.
- Drop-Off and Pick-up Areas:** The proposed School to use vans for student pick-up and drop-off. The parking lot directly south of the building to be used as pick-up and drop off location for students.
- Off-Street Parking Requirements:** No changes to existing off-street parking are proposed. A staff parking location has been proposed in the south parking lot as graphically indicated on this sheet.
- Setbacks:** No changes to existing building envelopes and lot setbacks are proposed.
- Athletic Fields and Play Areas:** No athletic fields or play areas exist on site, none are proposed.
- Site Lighting:** No changes to existing lighting infrastructure or changes requiring added site lighting are proposed.
- Dumpster Enclosures:** No changes to existing dumpster enclosure are proposed.



LEGEND	
T	TOWN
R	RANGE
N	NORTH
S	SOUTH
E	EAST
W	WEST
SEC.	SECTION
POB	POINT OF BEGINNING
[Gray Box]	PROPOSED BLACKTOP
[Hatched Box]	PROPOSED CONCRETE
[Gray Box]	EXISTING BLACKTOP
[Hatched Box]	EXISTING CONCRETE
/	BUILDING
[Section corner symbol]	SECTION CORNER
[Capped iron symbol]	SET CAPPED IRON
[Iron nail symbol]	FOUND IRON OR NAIL
[Manhole symbol]	STORM SEWER MANHOLE
[Manhole symbol]	SANITARY SEWER MANHOLE
[Catch basin symbol]	CATCH BASIN
[Hydrant symbol]	HYDRANT
[Valve symbol]	VALVE
[Utility pole symbol]	UTILITY POLE
[Guy wire symbol]	GUY WIRE
[Light pole symbol]	LIGHT POLE
[Wall mounted light symbol]	WALL MOUNTED LIGHT
[Pedestal symbol]	PEDESTAL
[Transformer symbol]	TRANSFORMER
[Sign symbol]	SIGN

SITE PLAN	
<b>LIGHTHOUSE ACADEMY</b>	
<b>151 S. MAIN ST NE, CEDAR SPRINGS</b>	
FOR: Robert Doornbos 1744 Marne Estates Drive Marne, MI, 49435 (616) 813-2452	
PART OF THE SOUTHEAST 1/4, SECTION 25, T10N, R11W, CITY OF CEDAR SPRINGS, KENT COUNTY, MICHIGAN	
 <b>Feenstra</b> & Associates, Inc. CIVIL ENGINEERS & SURVEYORS 3145 Prairie St SW Grandville, MI 49418 Phone: 616.457.7050 www.feenstrainc.com	
DATE: 02/02/2026	
C1	

LIGHTHOUSE NORTH  
151 S MAIN  
CEDAR SPRINGS MICHIGAN 49319



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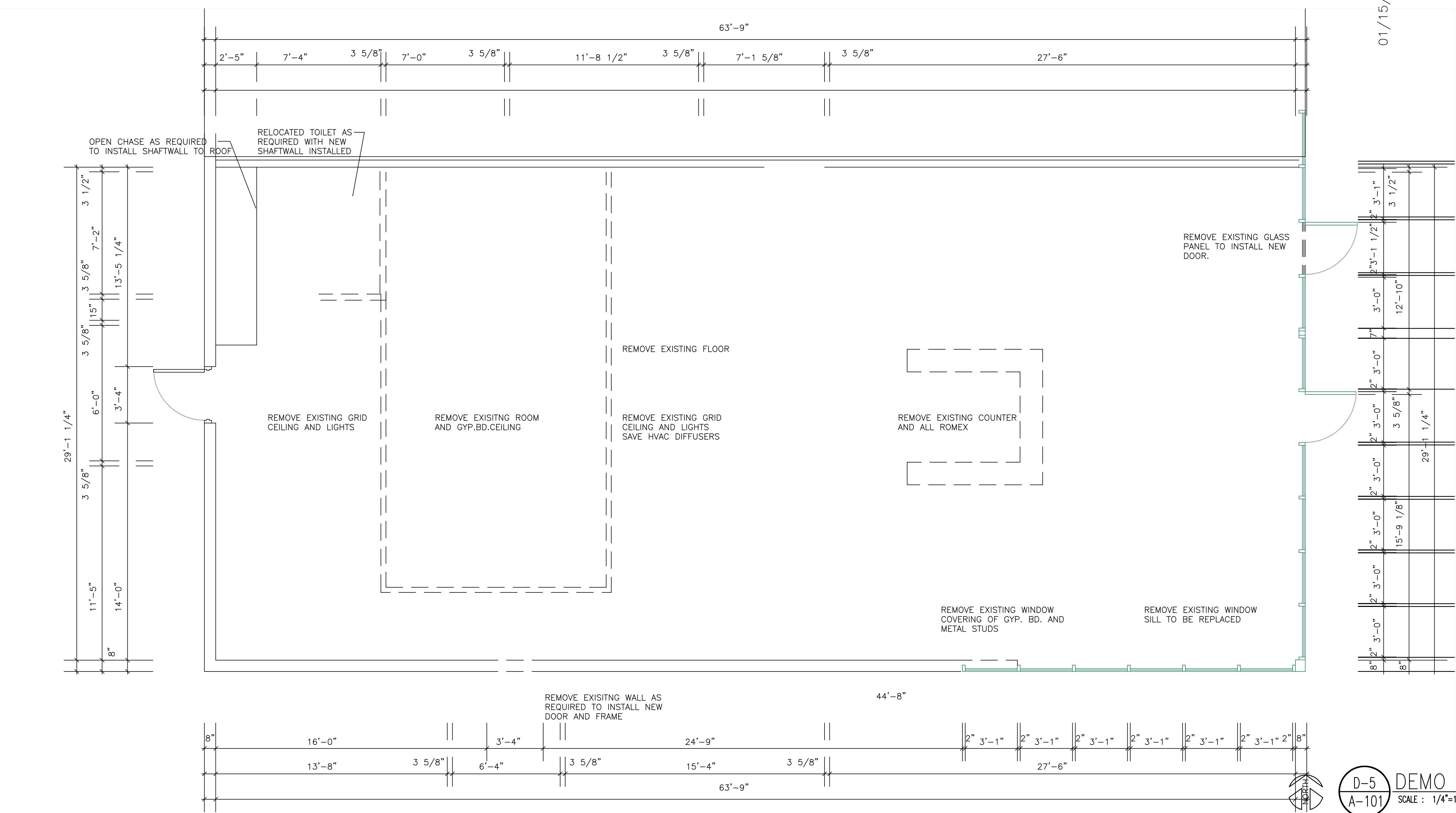


PROJECT NUMBER  
LHN 0226

SHEET NUMBER  
AD-101

SHEET NAME  
DEMO PLAN

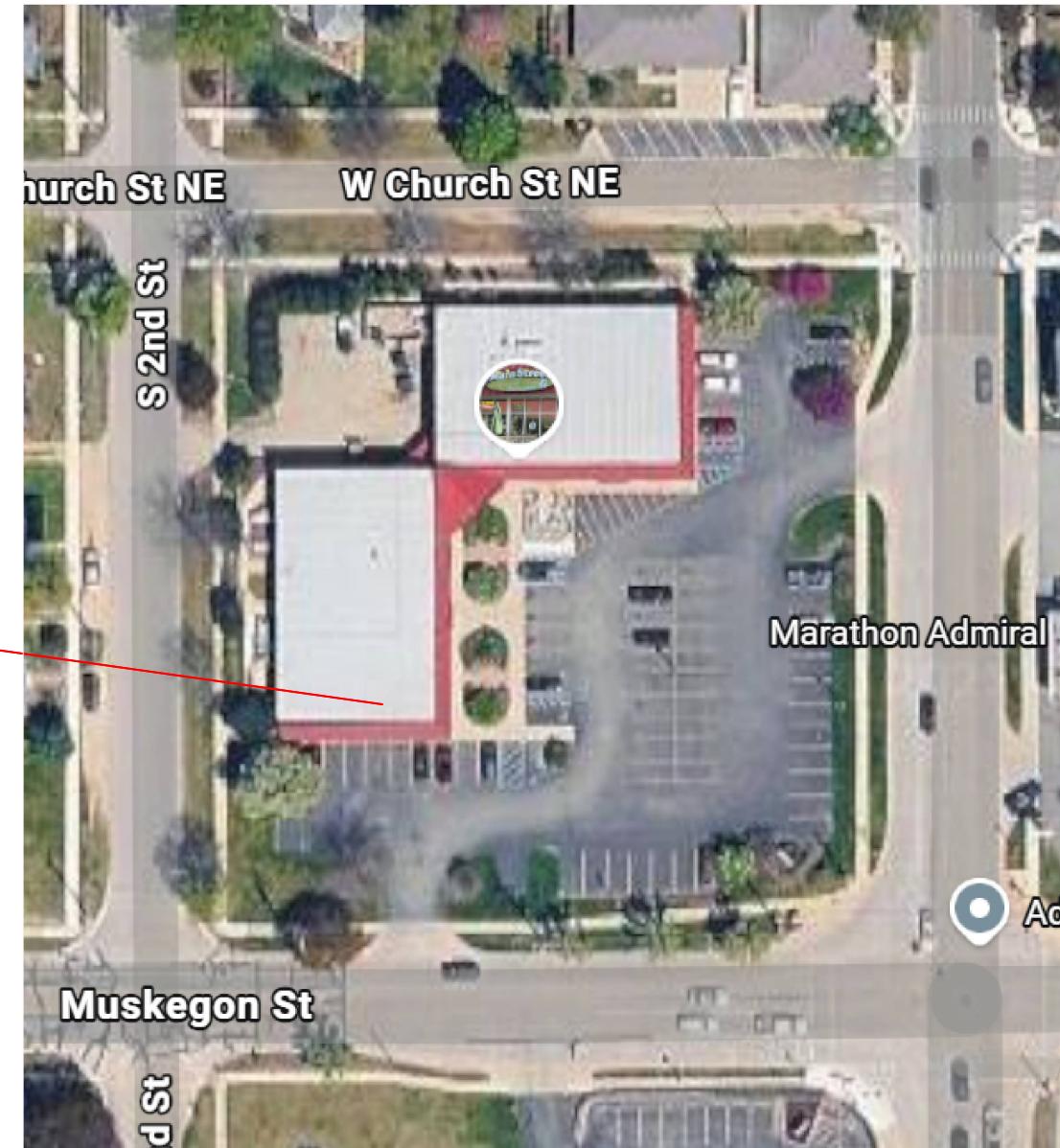
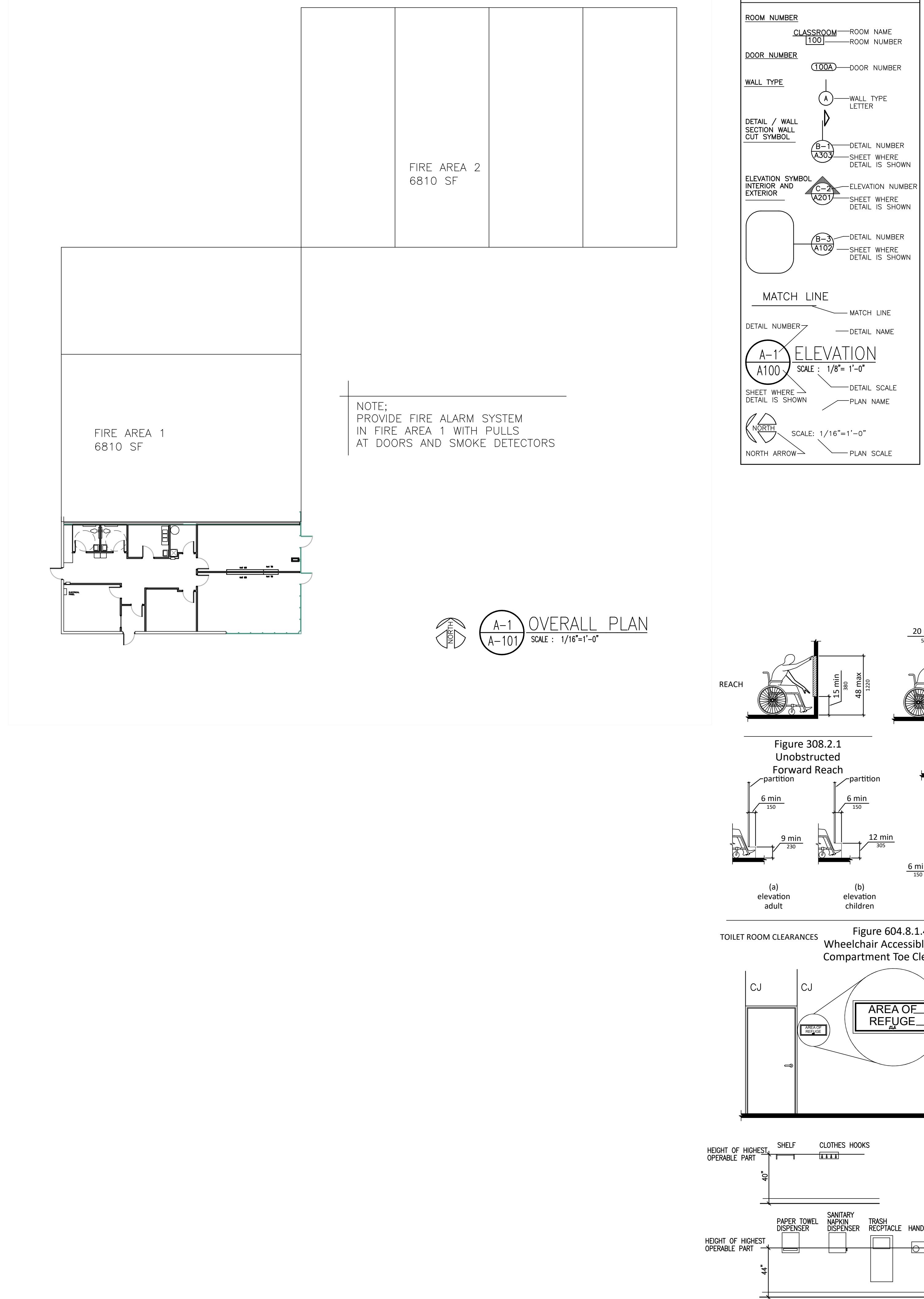
SCALE: 1/4"=1'-0"



## Sheet Index

AG-100	TITLE SHEET
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A-102	CEILING PLAN
A-301	INTERIOR DETAILS AND FINISHES
M-1	MECHANICAL SCHEDULES
M-2	PLUMBING PLAN SCHEDULES
P-1	POWER PLAN
EL-1	LIGHTING PLAN
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E100	DETAILS
E200	ONE LINE
ED-1	DEMO PLAN

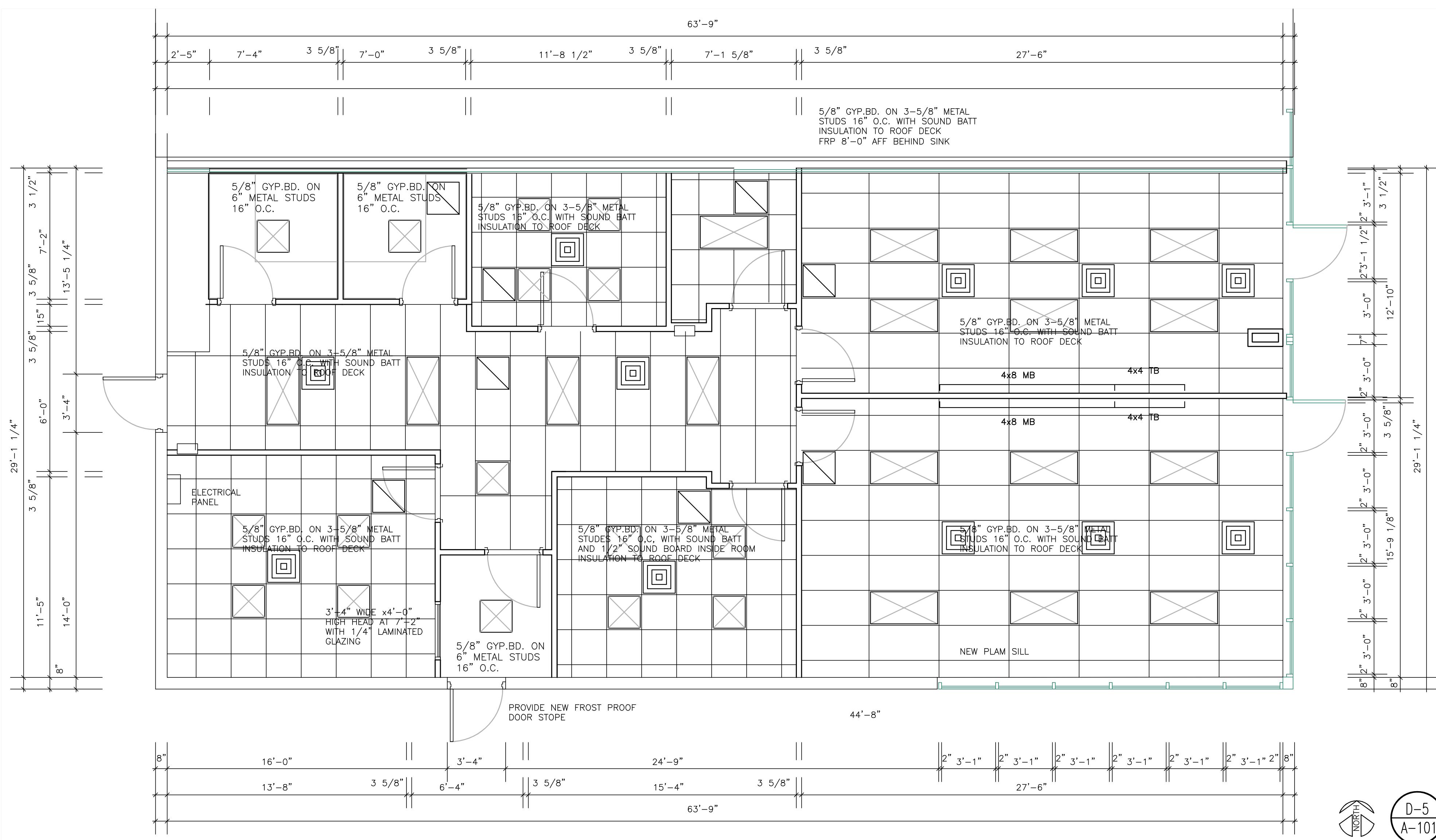
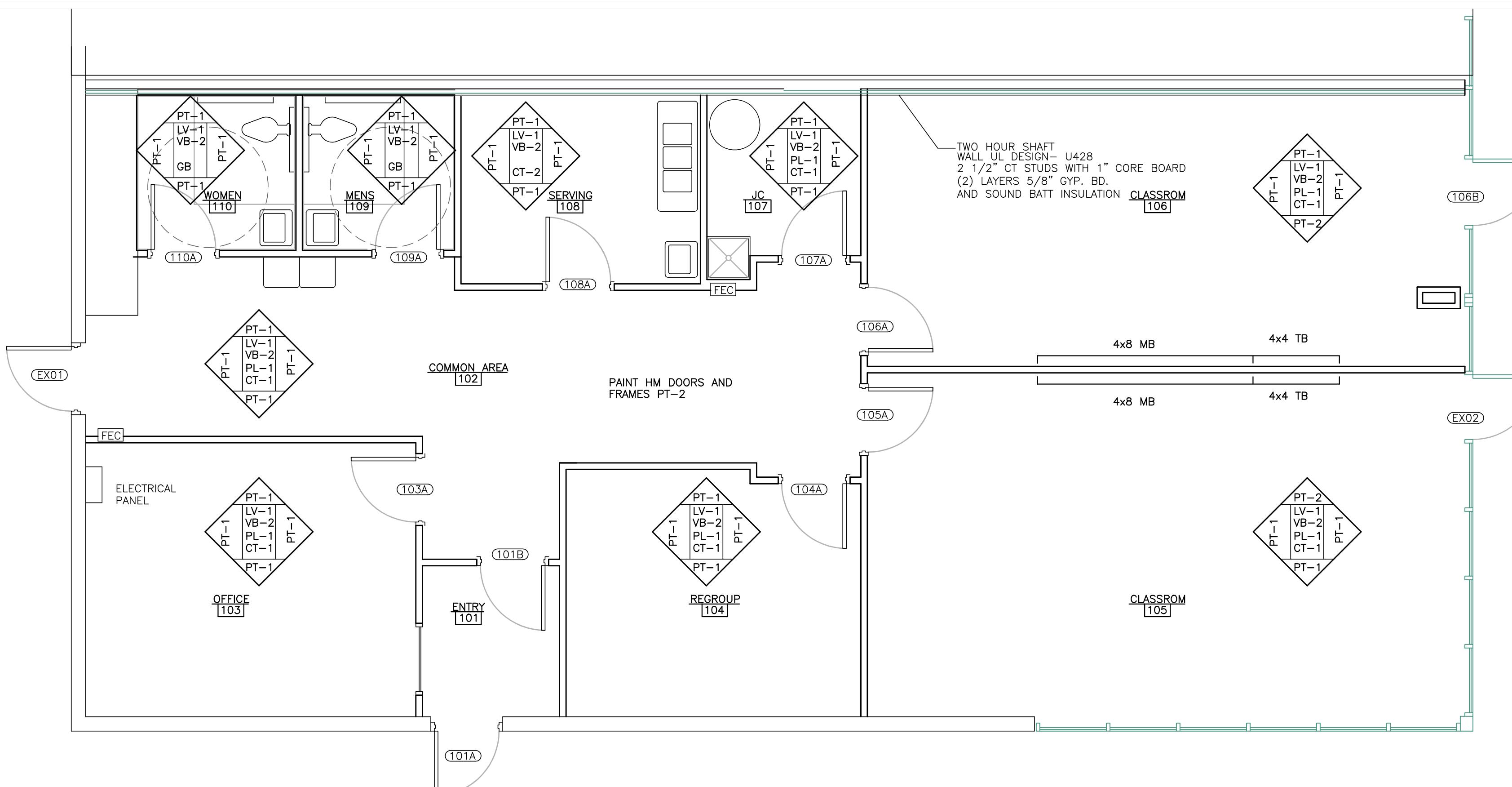
CODE INFORMATION						
APPLICABLE CODES:	BUILDING CODE FIRE CODE PLUMBING CODE MECHANICAL CODE ELECTRICAL CODE					
MICHIGAN BUILDING CODE 2021		MICHIGAN BUILDING CODE 2021 NFPA 101 2012 MICHIGAN PLUMBING CODE 2021 MICHIGAN MECHANICAL CODE 2021 MICHIGAN ELECTRICAL CODE 2023				
CHAPTER 5		ALLOWABLE HEIGHT AND BUILDING AREA	ACTUAL	6810 SF		
TABLE 503		GROUP	TYPE OF CONSTRUCTION	HEIGHT AREA		
MICHIGAN SCHOOL RULES		TABLE 503 E	TYPE II (B)	2 STORY ??' 14,500 SF		
CH 8		NECESSARY AFFIDAVITS WILL BE PROVIDED TO THE INSPECTOR		VERTICAL EXITS CORRIDORS ROOMS		
TABLE 803.5 FLAME SPREAD REQUIREMENTS		TABLE 803.5 FLAME SPREAD REQUIREMENTS	B	C C		
NFPA 101		NFPA 101				
CH 9		FIRE ALARM REQUIRED	FIRE PROTECTION REQUIRED	FIRE EXTINGUISHER NUMBER TRAVEL		
CHAPTER 10		2-A PER 3000 SF	(2)4-A	75 FEET MAX		
OCCUPANT LOAD		AREA CLASSROOMS 1:20	48 CALCULATED	AFFIDAVIT FOR PLUMBING		
READING/VOCATION		READING/VOCATION 1:50	48			
OFFICE AREAS		OFFICE AREAS 1:100	2	2		
ASSEMBLY		ASSEMBLY 1:7				
TOTAL		TOTAL 50	50	50		
CHAPTER 29		EGRESS WIDTH MINIMUM CORRIDOR WIDTH 6 FEET DOOR CAN NOT REDUCE 1/2 REQUIRED WIDTH IN COURSE OF SWING FULL OPEN NO MORE THAN 7" INTO EGRESS				
EGRESS ILLUMINATION		1 FOOT CANDLE 1:40 MIN TO MAX				
POINT TO POINT CALCULATIONS ARE PROVIDED ON THE ELECTRICAL PLANS		EXITS REQUIRED (2" PER OCCUPANT)	PROVIDED			
EXITS 1 EXITS - 34"		1 EXITS - 34"	3 EXITS - 102			
CHAPTER 30		EXIT LENGTH 250' TRAVEL DISTANCE				
PLUMBING FIXTURES		MINIMUM CORRIDOR WIDTH 6 FEET DOOR CAN NOT REDUCE 1/2 REQUIRED WIDTH IN COURSE OF SWING FULL OPEN NO MORE THAN 7" INTO EGRESS				
OCCUPANCY		WATER CLOSETS MALE FEMALE	LAVATORIES	DRINKING FOUNTAINS SERVICE SINK		
EDUCATIONAL		EDUCATIONAL 1:50 1:50	1 PER 50	1 PER 100 1 SERVICE SINK		
OFFICE		OFFICE 1:25	1 PER 40	1 PER 500 1 SERVICE SINK		
ASSEMBLY		ASSEMBLY 1:125 1:65	1 PER 200	1 PER 500 1 SERVICE SINK		
CHAPTER 31		ACTUAL NUMBER OF OCCUPANTS 50				
Fixture Required		Fixture Required 1 1 2 2 1				
Fixtures Provided		Fixtures Provided 1 1 2 2 1				
URINAL SHALL NOT BE SUBSTITUTED FOR MORE THAN 67% OF WATER CLOSETS						
ISSUED FOR: REVIEW BIDDING						
DATE: 01/15/26	02/05/26					
SEAL						
ROBERT MARVIN DOORNBOS No. 1301032586 LICENSED ARCHITECT						
PROJECT NUMBER LHN 0226						
SHEET NUMBER AG-100						
SHEET NAME CODE INFO						



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616 813 2452 MOBILE  
RMDArchitects.net  
1744 MARINE ESTATES DR.  
TALLMADGE TOWNSHIP, MI 49435

# FINISH SCHEDULE

# FINISH SCHEDULE



# BIDDING

## OWNER SIGNOFF

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### LIGHTHOUSE NORTH 151 S MAIN

616 677 5997 OFFICE  
616 813 2452 MOBILE  
RMD@RMDArchitects.net  
1744 MARNE ESTATES DR.  
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PROJECT NUMBER  
**LHN 0226**

SHEET NUMBER  
**A-102**

SHEET NAME  
**CEILING PLAN**



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BIDDINGDATE:  
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02/05/26

SEAL

ROBERT MARVIN  
DOORNBOS  
No.  
1301032586

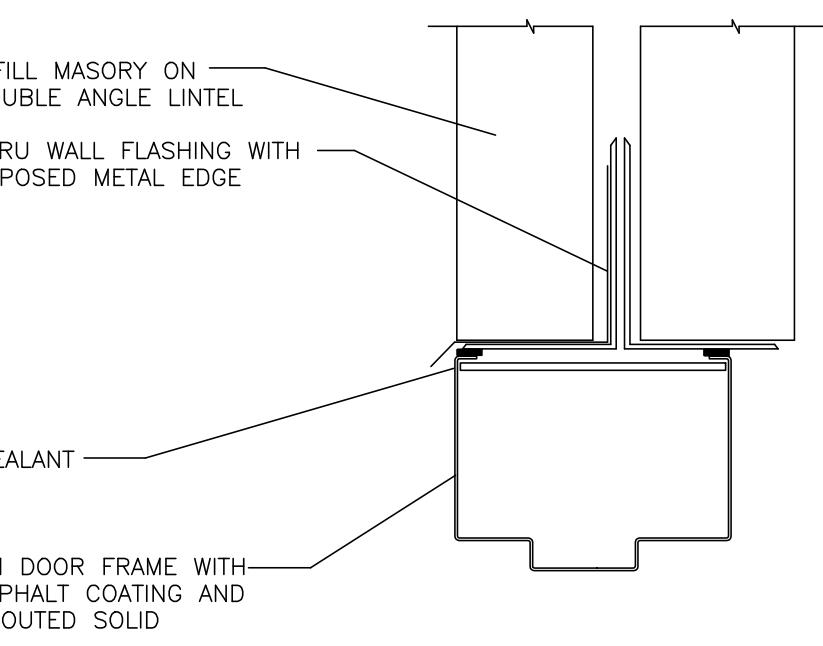
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LHN 0226

SHEET NUMBER

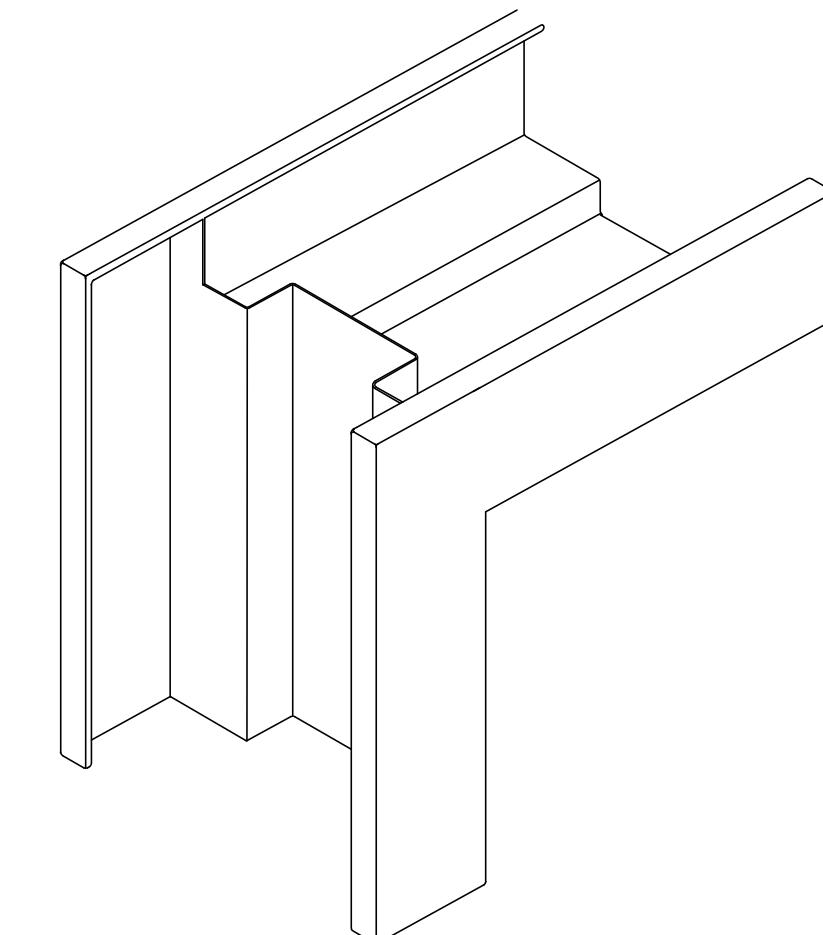
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SHEET NAME

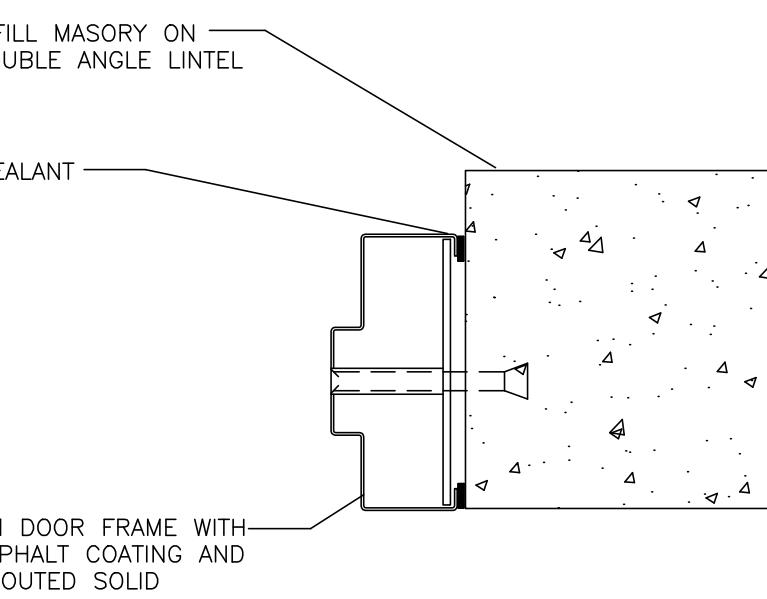
DETAILS



B-1 MASONRY HM DOOR JAMB  
A-101 SCALE : NTS

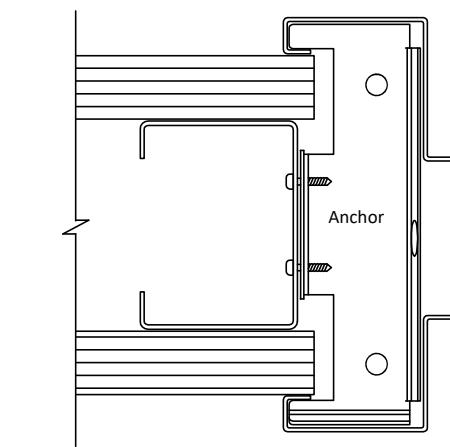


A-3 WELDED HM FRAME HEAD  
A-101 SCALE : NTS

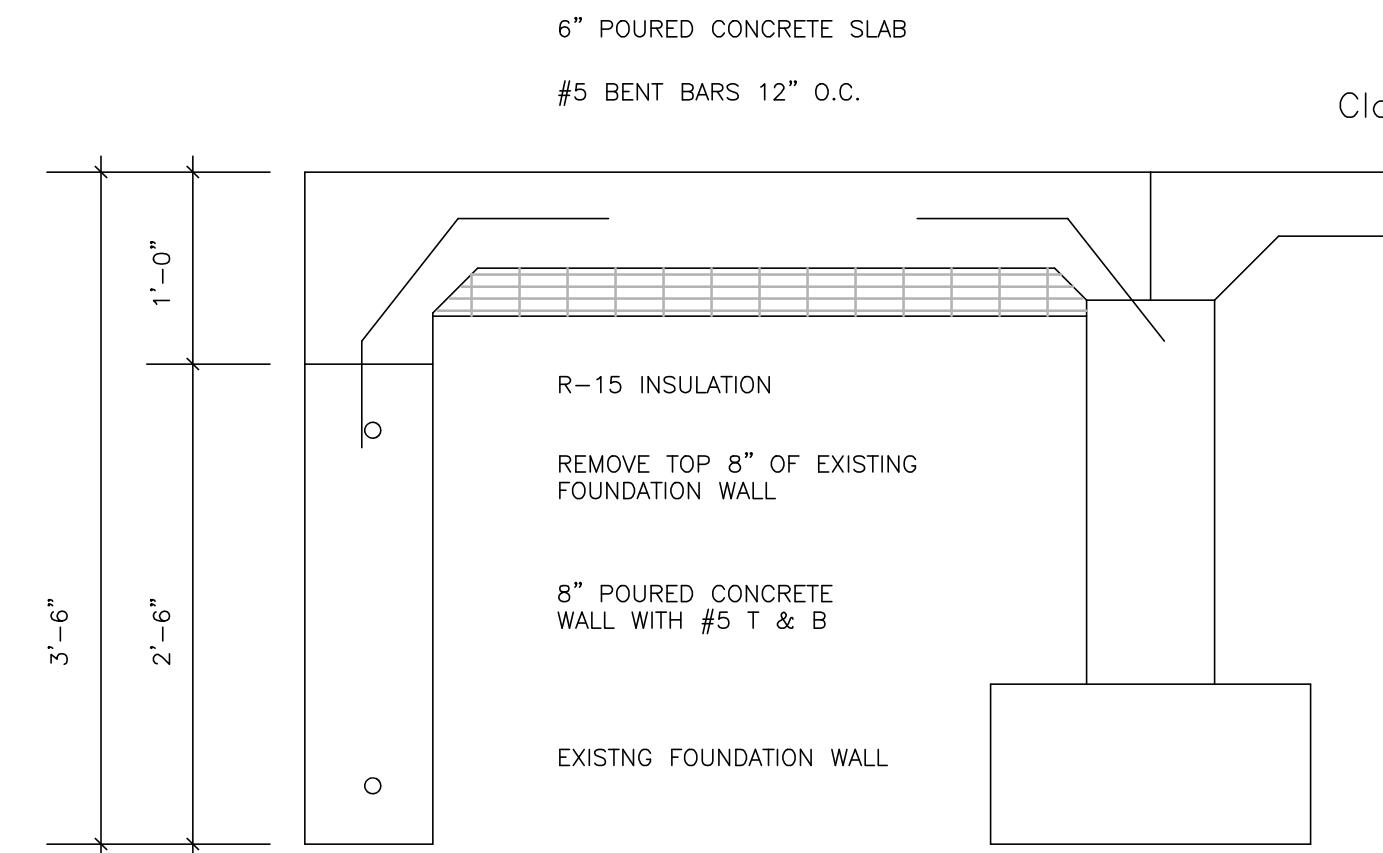


Note: Material: 16 gauge .053" steel

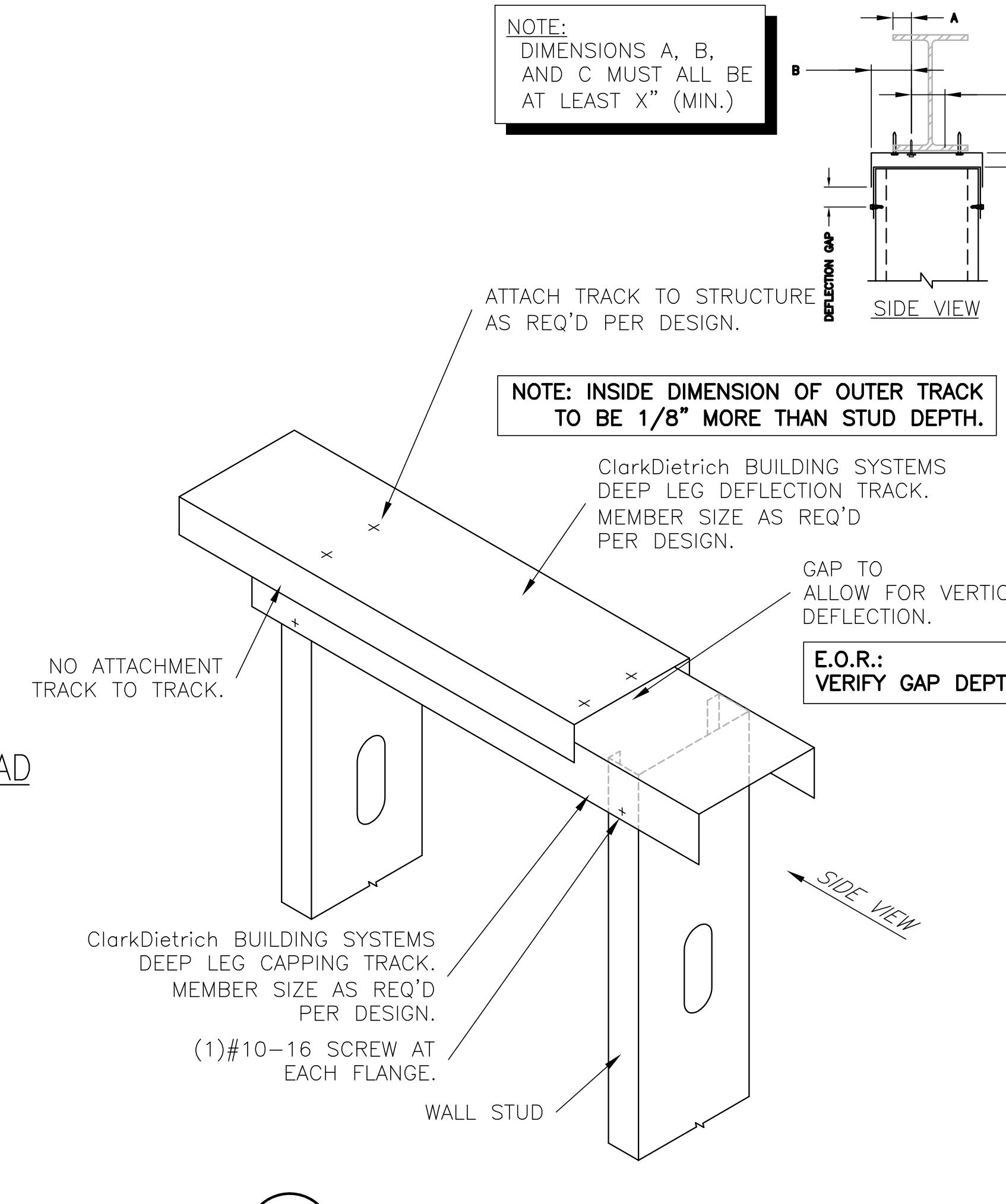
B-1 MASONRY HM DOOR JAMB  
A-101 SCALE : NTS



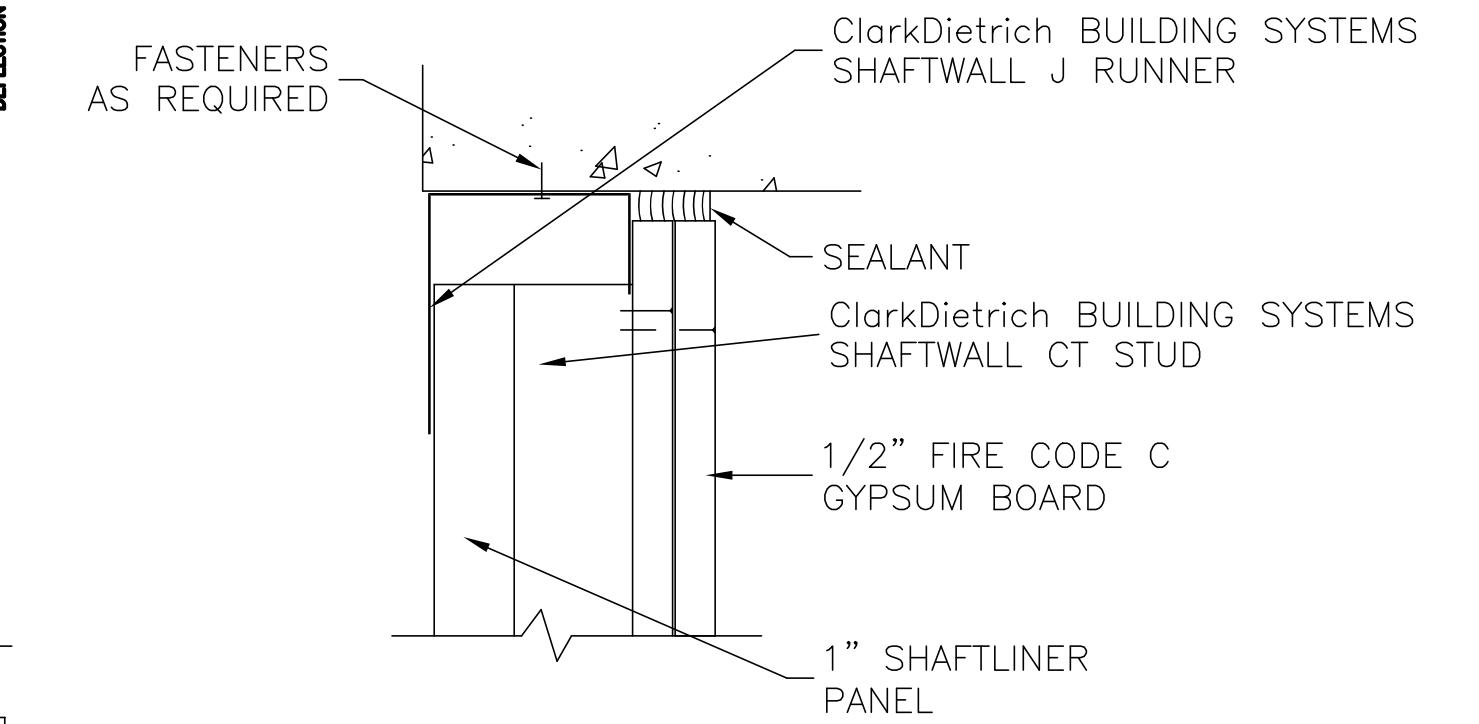
B-3 HM DOOR JAMB  
A-101 SCALE : NTS



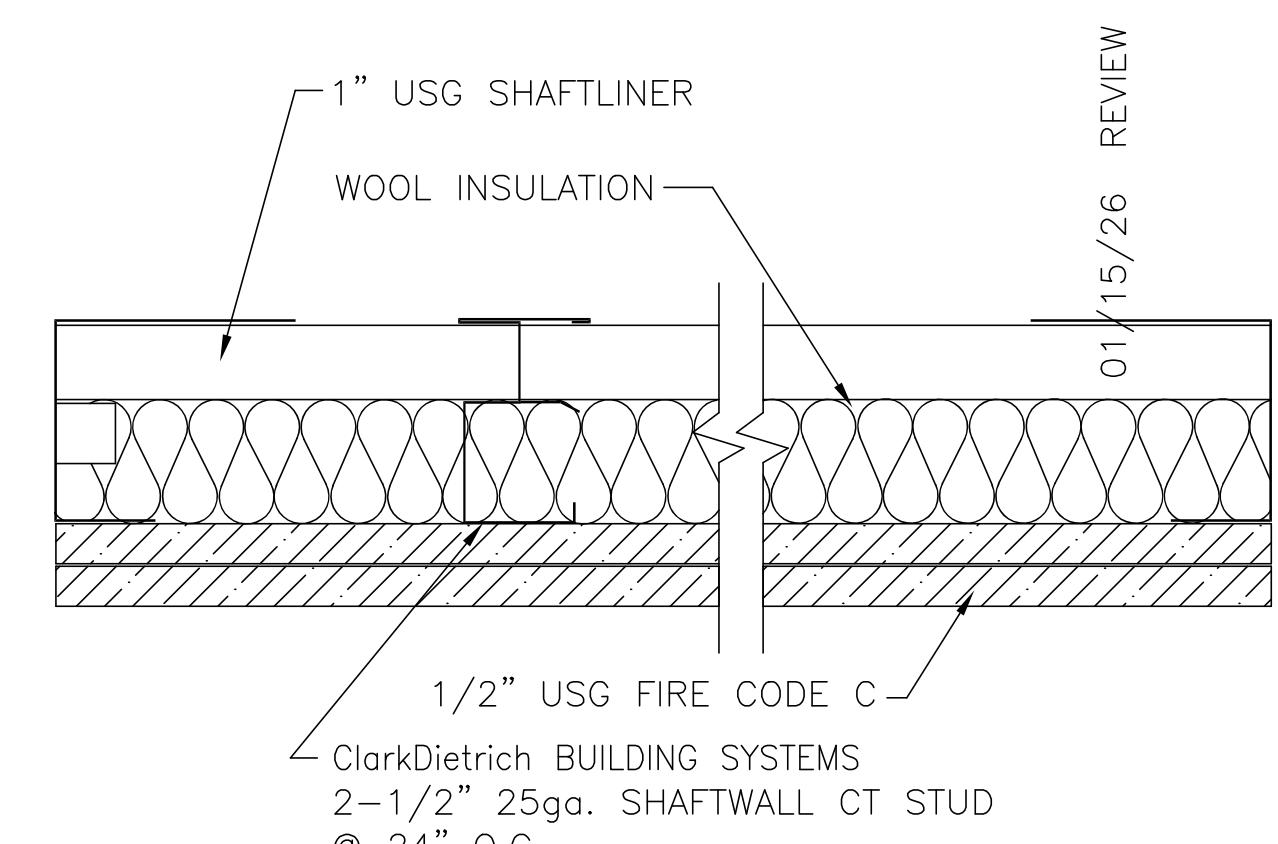
C-3 MASONRY HM DOOR JAMB  
A-101 SCALE : NTS



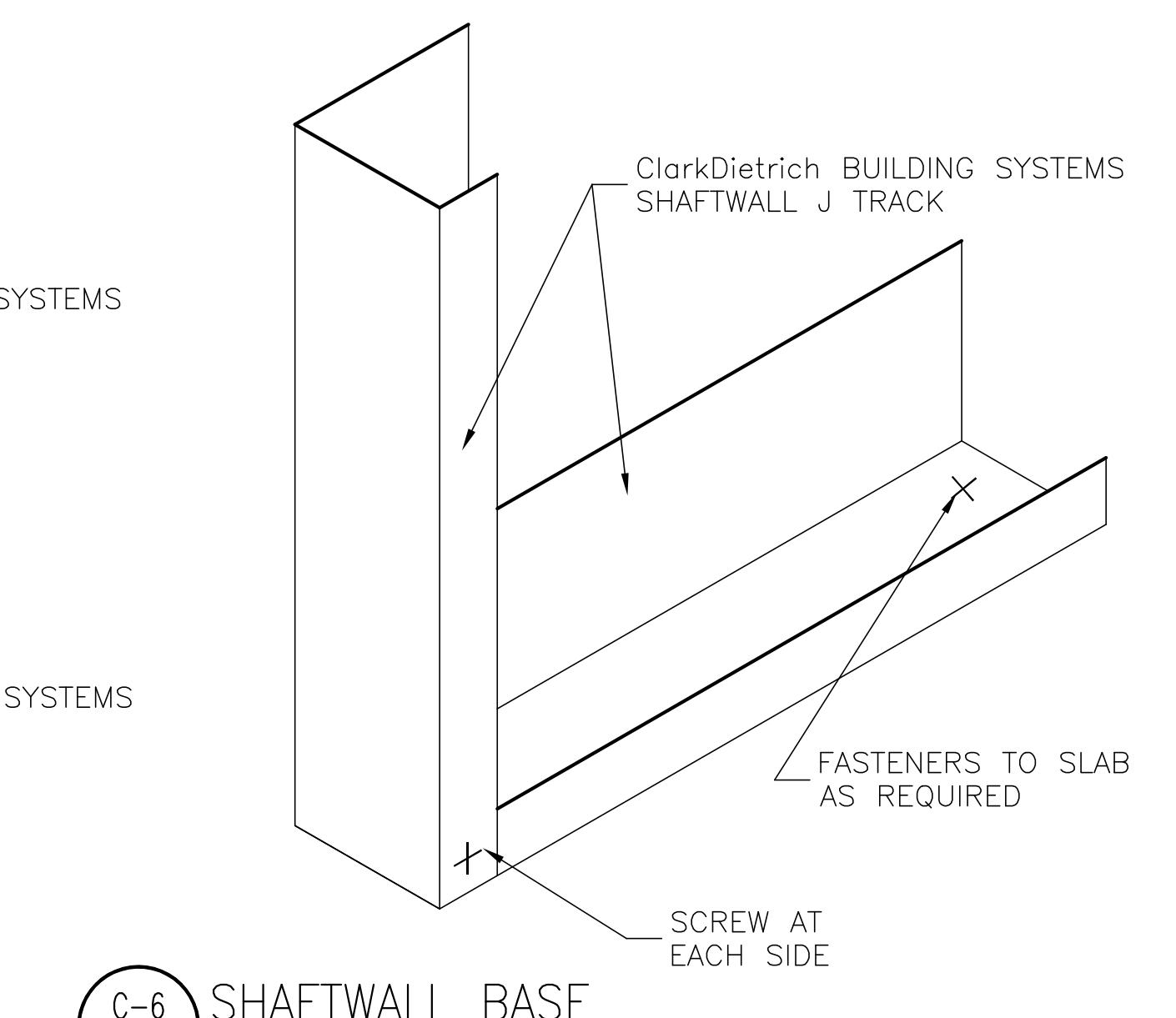
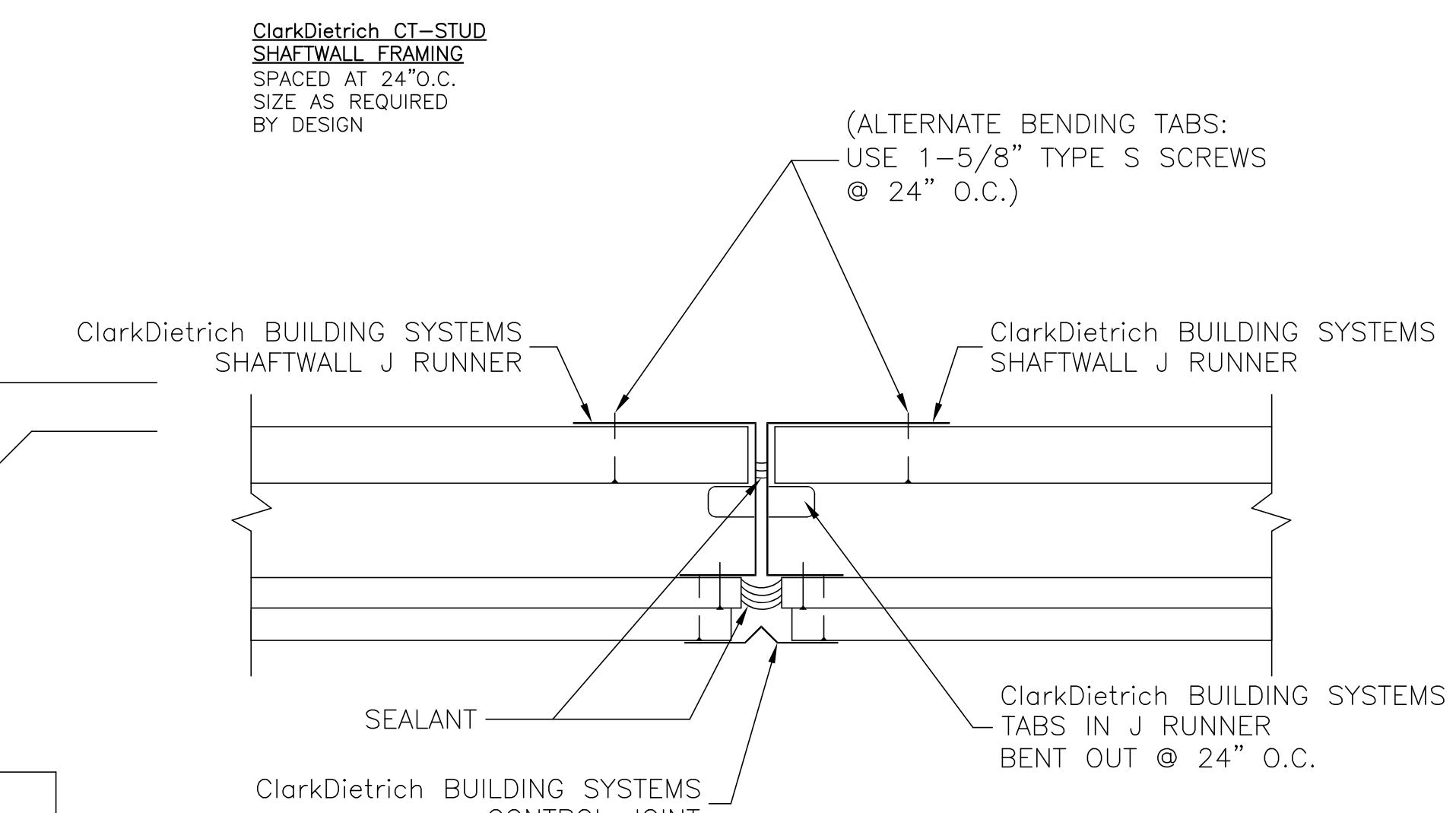
C-5 SHAFTWALL CJ  
A-101 SCALE : NTS



C-6 SHAFTWALL HEAD  
A-101 SCALE : NTS



B-6 SHAFTWALL SECTION  
A-101 SCALE : NTS



C-6 SHAFTWALL BASE  
A-101 SCALE : NTS



REVIEW

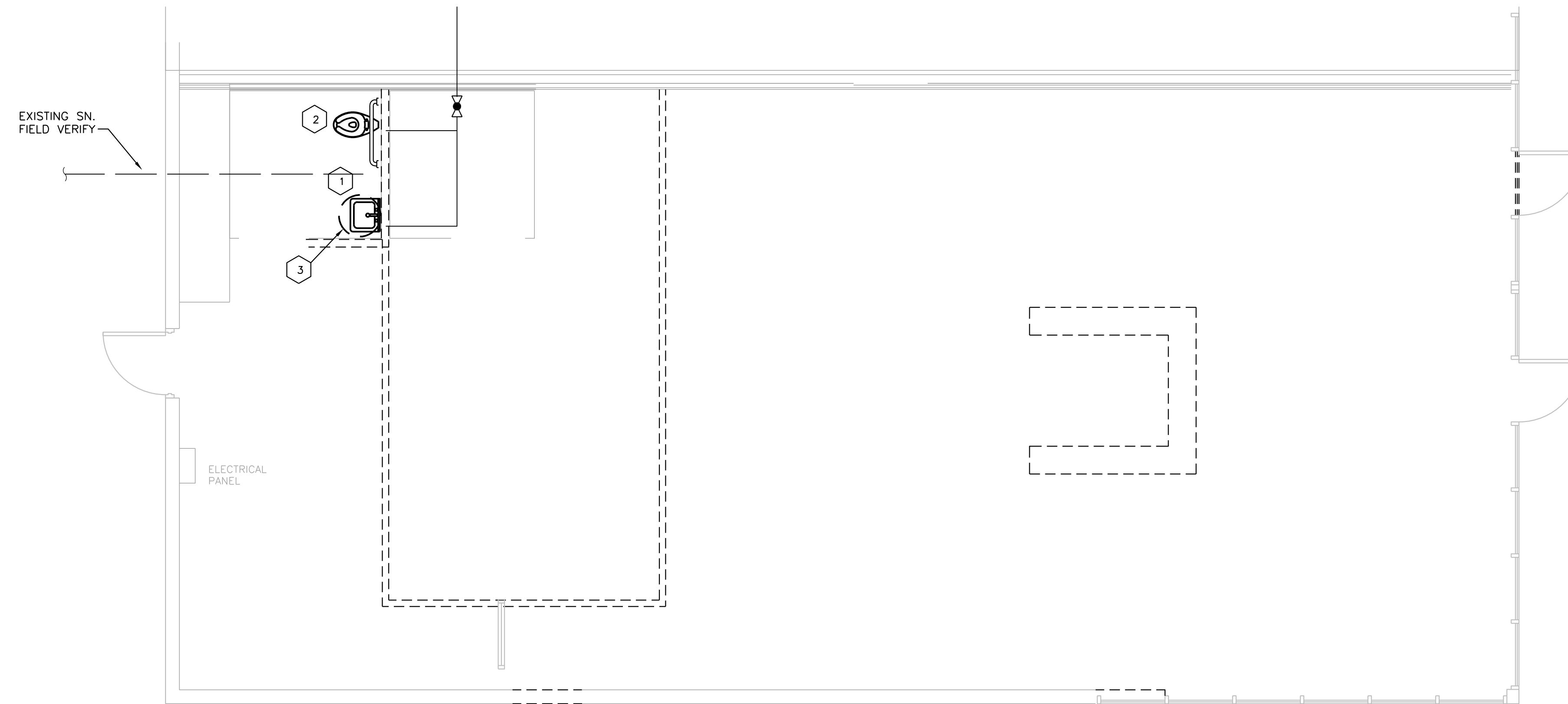
OWNER SIGNOFF

Classic Engineering, LLC  
100 Cesar E Chavez Ave SW  
Grand Rapids, Michigan 49503  
(616) 742-2810  
www.classicengineering.com  
Proj. #2026020

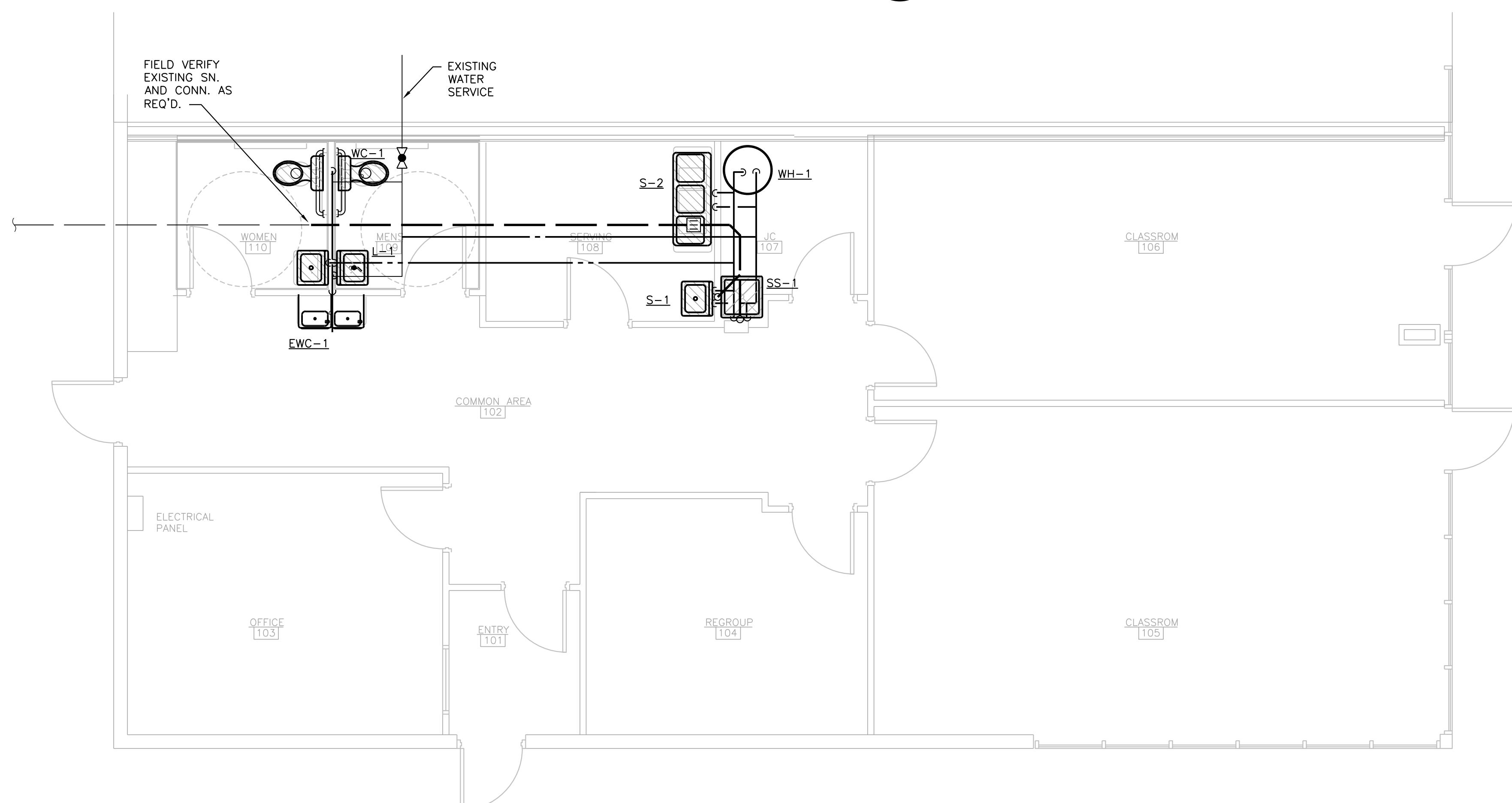
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**PLUMBING DEMO NOTES**

- 1 EXISTING LAVATORY TO REMAIN.
- 2 EXISTING WATER CLOSET TO BE REMOVED AND RELOCATED TO SOUTH TO ACCOMMODATE NEW SHAFT WALL. SEE ARCH PLANS
- 3 REMOVE EXISTING WATER HEATER ABOVE CEILING. RECONNECT HOT WATER AT EXISTING LAV TO NEW PIPING SUPPLIED BY NEW WATER HEATER



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



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

**RMD**  
ARCHITECTS

616 677 5997 OFFICE  
616 813 2452 MOBILE  
RMD@RMDArchitects.net  
1744 MARINE ESTATES DR.  
TALLMADGE TOWNSHIP, MI 49435

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DATE:

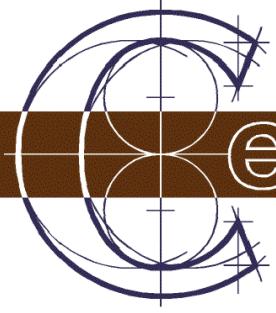
02/05/26

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**PROJECT #**

SHEET NUMBER  
**P-1**

SHEET NAME  
**FLOOR PLANS**



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100 Cesar E Chavez Ave SW  
Grand Rapids, Michigan 49503  
(616) 742-2810  
www.classicengineering.com  
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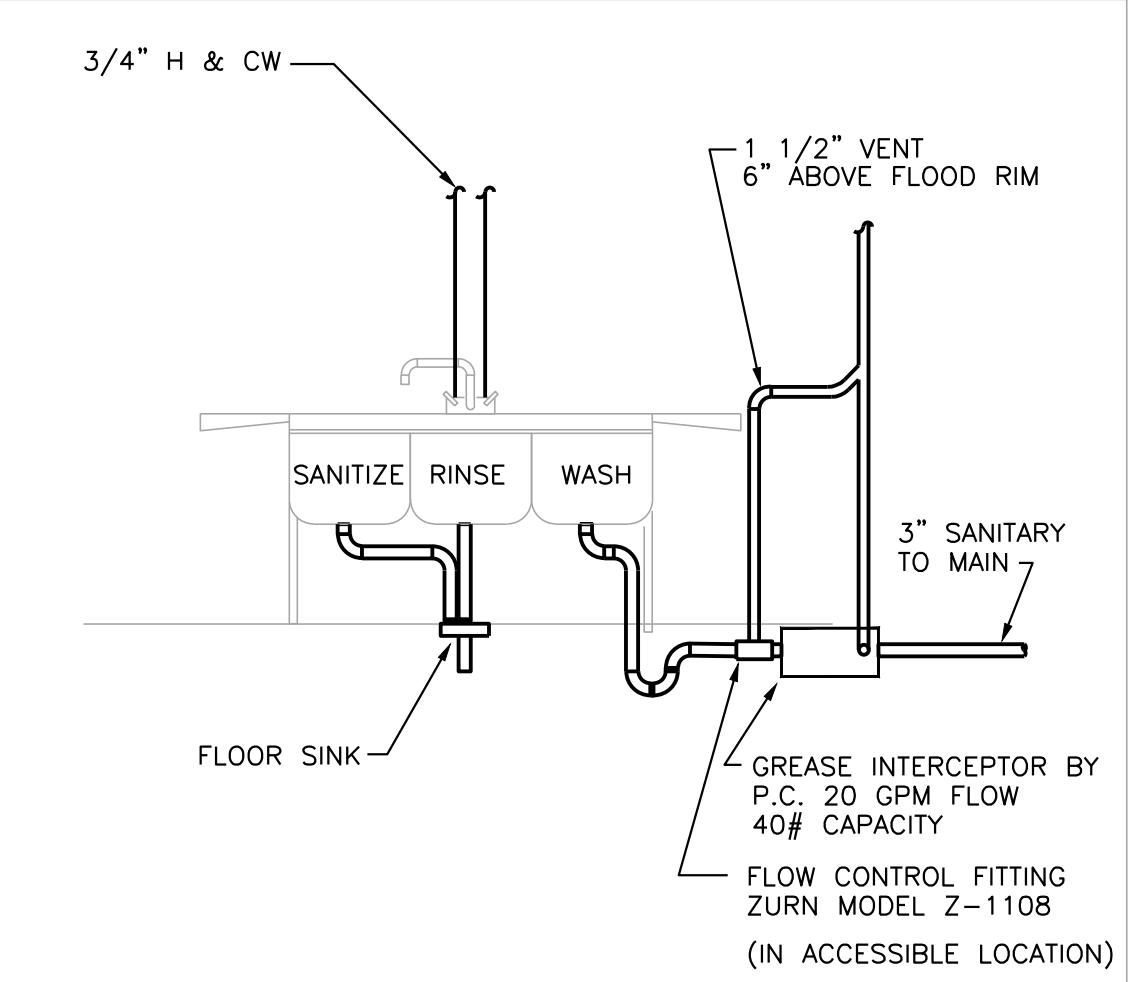
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151 S MAIN

CEDAR SPRINGS MICHIGAN 49319

PLUMBING FIXTURE SCHEDULE						
MARK	DESCRIPTION	SAN.	C.W.	H.W.	VENT	REMARKS
EWC-1	WALL MOUNTED, TWO-LEVEL, BARRIER FREE, COOLER MODULE, FOUNTAIN SHALL BE MOUNTED TO PROVIDE AMPLE LEG ROOM AND EASY ACCESS FROM THE SITTING POSITION. HOUSING SHALL BE STAINLESS STEEL, MOTOR OVERLOAD PROTECTION, ANSI A 117.1-1992, U.L. LISTED AND ARI RATED. COOL 7.8 GPH TO 50 DEGREE F. WATER AT 90 DEGREE F. AMBIENT AND 80 DEGREE F. INLET WATER TEMPERATURE. ELKAY MODEL #LZSTL8C.	1-1/2"	1/2"	--	1-1/2"	
WC-1	FLOOR MOUNTED, VITREOUS CHINA, TANK TYPE, 18 1/2" RIM HEIGHT, ELONGATED BOWL, AMERICAN STANDARD WITH LEVER ASSEMBLY INSTALLED ON BARRIER FREE ACCESS SIDE, AND WHITE SOLID PLASTIC OPEN FRONT SEAT, LESS COVER	4"	1/2"	--	2"	
L-1	WALL MOUNTED, VITREOUS CHINA, 20"x18", FRONT OVERFLOW, 4" BACK AND 4" CENTERS, AMERICAN STANDARD LUCERNE #0355.012. PROVIDE WITH SINGLE LEVER FAUCET AND AERATOR DELTA 501-WF, 'BARRIER FREE', 3/8" LOOSE KEY OPERATED ANGLE STOPS, PERFORATED GRID DRAIN STRAINER, TRAP ASSEMBLY AND PROTECTIVE PIPE COVERS. CARRIER TO HAVE CONCEALED ARMS, LEVELING AND SECURING SCREWS JOSAM #17100. PROVIDE A TEMPERING VALVE AT ALL ACCESSIBLE HANDWASHING FIXTURES THAT CONFORMS TO ASSE 1070.	1-1/2"	1/2"	1/2"	1-1/2"	
SS-1	FLOOR MOUNTED, PRECAST, ONE PIECE MOLDED STONE WITH BUMPER GUARD ON BOTH SIDES, 24"x24"x10" FIAT #MSB-2424. PROVIDE WITH WALL MOUNTED COMBINATION FITTING WITH INTEGRAL STOPS, VACUUM BREAKER, WALL BRACE, PAIL HOOK, MOP HANGER, HOSE AND HOSE BRACKET, AND WALL MOUNTED SERVICE FAUCET.	3"	3/4"	3/4"	1-1/2"	
WH-1	AO SMITH ELECTRIC TANK TYPE WATER HEATER, 75 GALLON	--	3/4"	--	--	
S-1	WALL MOUNTED, SEAMLESS STAINLESS STEEL, 18 GAUGE, ELKAY #ELV2219SACMC WITH 22"x19"x5-1/2" BOWL. PROVIDE WITH GOOSENECK SENSOR FAUCET ELKAY #LKB721C, SWING SPOUT WITH AERATOR, 3/8" LOOSE KEY ANGLE STOPS, (2) 3-1/2" BASKET STRAINER ELKAY #LK35, 1 1/2" TAILPIECE AND 1 1/2" P-TRAP.	1-1/2"	1/2"	1/2"	1-1/2"	
S-2	FLOOR MOUNTED STAINLESS STEEL, 16 GAUGE, ELKAY #RNSF83724 WITH 85-1/2" X 29-3/4" X 12-3/4" TRIPLE COMPARTMENT SINK. PROVIDE WITH KINGSTON BRASS #GS1271AL DECK MOUNTED FULL DOWN DOUBLE HANDLE KITCHEN FAUCET 1.8 GPM.	1-1/2"	1/2"	1/2"	1-1/2"	

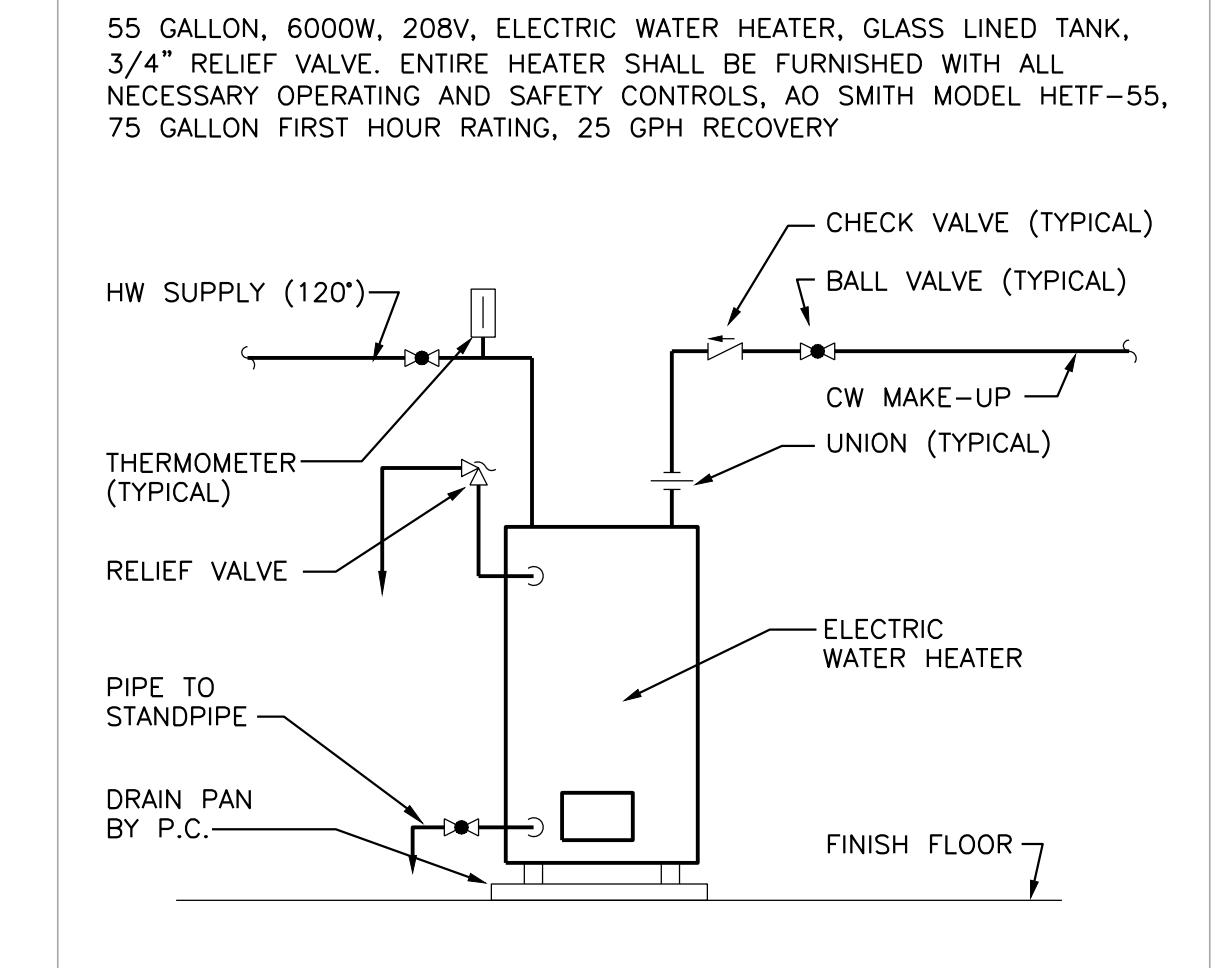
1. IN CONCEALED LOCATIONS WHERE PIPING IS INSTALLED THROUGH STUDS, JOISTS, OR RAFTERS, PROVIDE A 1/16" THICK STEEL PROTECTIVE SHIELD TO PROTECT THE PIPE FROM PUNCTURES.
2. PROVIDE WATER HAMMER ARRESTERS WHERE QUICK CLOSING VALVES ARE USED, OR AS REQUIRED. ARRESTERS SHALL CONFORM TO ASSE 1010 AND ACCESS SHALL BE PROVIDED TO EACH ARRESTOR.
3. ALL PLUMBING VENTS THROUGH THE ROOF TO BE INSTALLED A MINIMUM OF 10'-0" AWAY FROM ALL FRESH AIR INTAKE OPENINGS.
4. DO NOT INSTALL ANY PIPING AROUND ELECTRICAL EQUIPMENT TO INSURE ALL CODE REQUIRED CLEARANCES. SEE ELECTRICAL PLANS FOR THESE LOCATIONS.
5. REFER TO MINIMUM SIZE CONNECTION SCHEDULE FOR ALL PLUMBING FIXTURES BRANCH PIPING SIZES.
6. PROVIDE IDENTIFICATION ON ALL SHUT-OFF VALVES SERVING WALL HYDRANTS AND HOSE BIBBS. IDENTIFY ALL OTHER VALVES THAT ARE NOT ADJACENT TO THE FIXTURE THEY SERVE.
7. PROVIDE A TEMPERING VALVE AT ALL ACCESSIBLE HANDWASHING FIXTURES THAT CONFORMS TO ASSE 1070.
8. ALL DOMESTIC PIPING TO BE TYPE 'L' COPPER, INSULATED WITH FOAM PER ENERGY CODE. ALL PIPE INSULATION TO BE UPDATED
9. ALL SANITARY PIPING TO BE SCHEDULE 40 PVC.
10. VENTING SHALL BE INSTALLED IN ACCORDANCE WITH CODE

PLUMBING NOTES3-COMPARTMENT SINK PIPING DETAIL

NOT TO SCALE

HOT WATER REQUIREMENTS			
Fixture	Quantity	GPH	Total
LAVATORY	2	X 5	= 10
HAND SINK	1	X 5	= 5
MOP SINK	1	X 5	= 5
3-COMP SINK	1	X 45	= 45

TOTAL REQUIRED = 65  
TOTAL PROVIDED = 75

ELECTRIC WATER HEATER DETAIL

NOT TO SCALE

ISSUED FOR:  
REVIEW

SEAL

PROJECT NUMBER  
**PROJECT #**  
SHEET NUMBER  
**P-2**  
SHEET NAME  
**SCHEDULES**

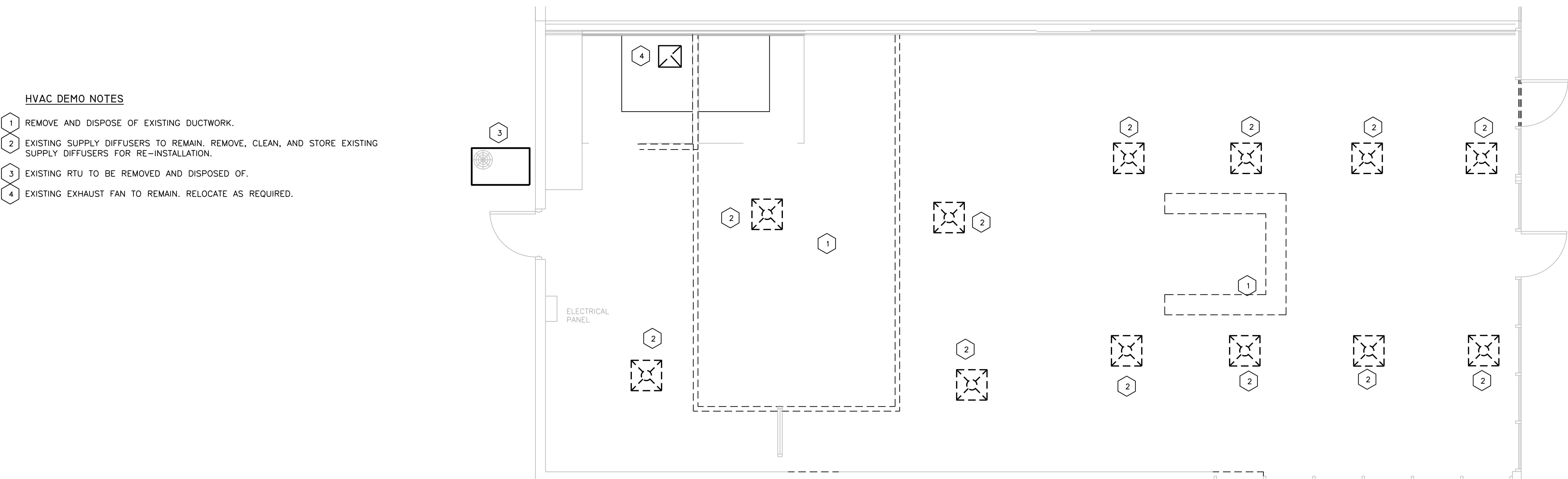


REVIEW

OWNER SIGNOFF

**HVAC DEMO NOTES**

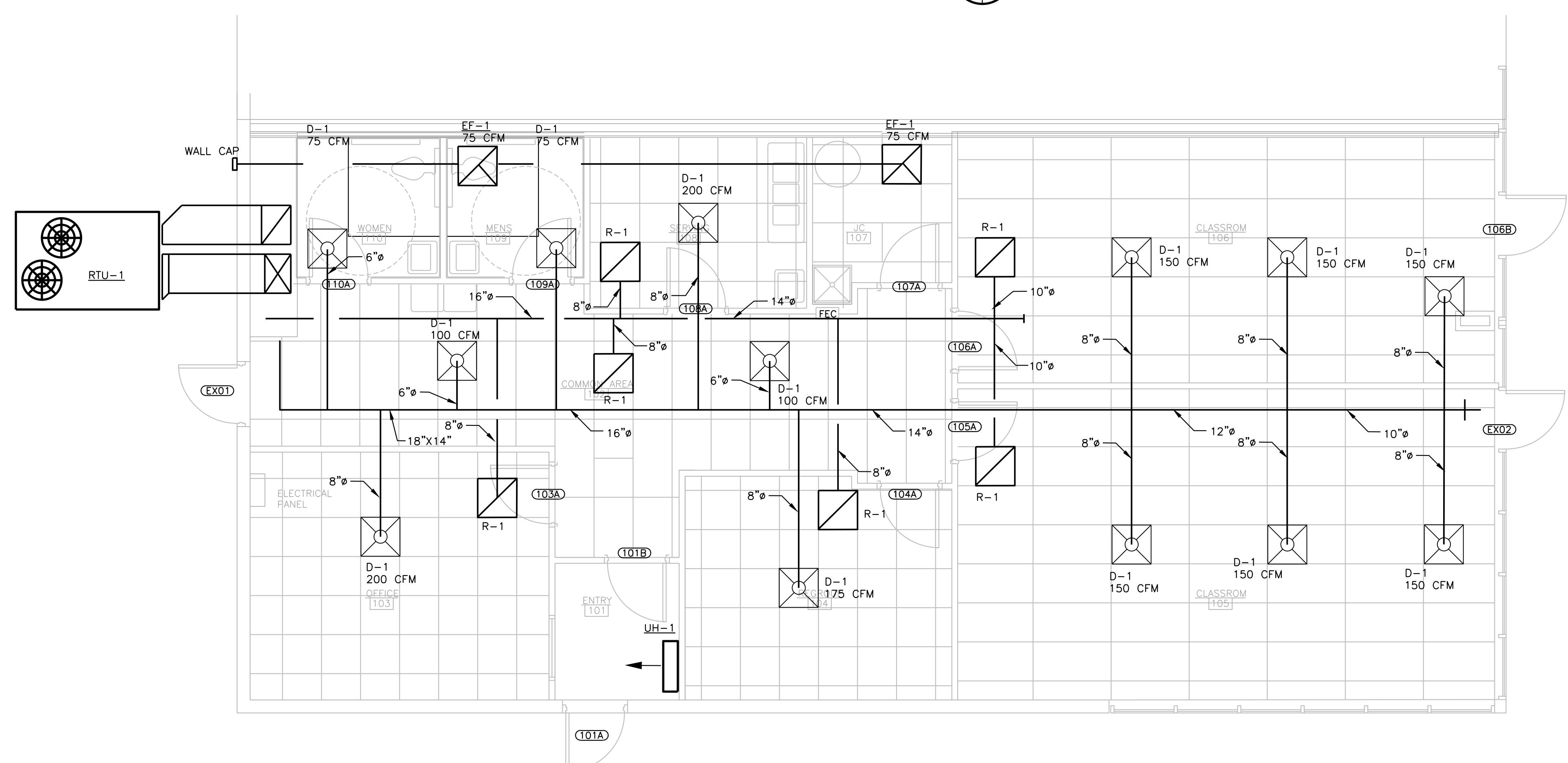
- 1 REMOVE AND DISPOSE OF EXISTING DUCTWORK.
- 2 EXISTING SUPPLY DIFFUSERS TO REMAIN. REMOVE, CLEAN, AND STORE EXISTING SUPPLY DIFFUSERS FOR RE-INSTALLATION.
- 3 EXISTING RTU TO BE REMOVED AND DISPOSED OF.
- 4 EXISTING EXHAUST FAN TO REMAIN. RELOCATE AS REQUIRED.



Classic Engineering, LLC  
100 Cesar E Chavez Ave SW  
Grand Rapids, Michigan 49503  
(616) 742-2810  
www.classicengineering.com  
Proj. #2026020

LIGHTHOUSE NORTH  
151 S MAIN  
CEDAR SPRINGS MICHIGAN 49319

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



RMD  
ARCHITECTS

616 677 5997 OFFICE  
616 813 2452 MOBILE  
RMD@RMDArchitects.net  
1744 MARINE ESTATES DR.  
TALLMADGE TOWNSHIP, MI 49435

ISSUED FOR:

REVIEW

DATE:

02/05/26

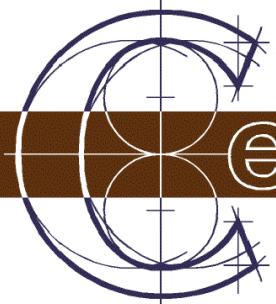
SEAL

PROJECT NUMBER  
**PROJECT #**

SHEET NUMBER  
**M-1**

SHEET NAME  
**FLOOR PLANS**

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



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100 Cesar E Chavez Ave SW  
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ISSUED FOR:  
REVIEW

DATE:  
02/05/26

PROJECT NUMBER  
**PROJECT #**  
SHEET NUMBER  
**M-2**  
SHEET NAME  
**SCHEDULES**

MECHANICAL GENERAL NOTES										
1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENT EDITION OF THE MECHANICAL CODE ENFORCED IN THIS AREA, INCLUDING ALL STATE AND LOCAL AMENDMENTS. ARRANGE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED.										
2. COORDINATE THE ENTIRE MECHANICAL SYSTEM INSTALLATION WITH OTHER BUILDING COMPONENTS (ELECTRICAL, PLUMBING, STRUCTURAL, FIRE PROTECTION, ETC.).										
3. PROVIDE ALL VALVES, DAMPERS AND CONTROL DEVICES REQUIRED TO COMPLETE BALANCING OF SYSTEMS. IT SHALL BE UNDERSTOOD THAT ALL SYSTEMS INSTALLED SHALL COMPLY WITH INDUSTRY RECOGNIZED STANDARDS AND FEATURES. PROVIDE (3) SETS OF AIR AND WATER BALANCE REPORTS TO THE OWNER AT THE END OF THE PROJECT.										
4. INSTALL SYSTEMS, MATERIAL AND EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE. INSTALL MECHANICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE AND REPAIR.										
5. INSTALL SYSTEMS, MATERIAL AND EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS.										
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY PROTECTING ANY PENETRATIONS OF A FIRE RATED ASSEMBLY. FIRE SEAL, CAULKING AND APPURTENANCES SHALL BE UL LISTED FOR THE ASSEMBLY RATING IT IS APPLIED TO AND SHALL BE INSTALLED PER THE MANUFACTURERS WRITTEN INSTRUCTIONS. ALL SUCH MATERIAL SHALL MEET STATE, LOCAL AND AUTHORITIES CODES AND STANDARDS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIRE RATED ASSEMBLY LOCATIONS AND RATINGS.										
7. PENETRATIONS ARE PROHIBITED IN ANY STRUCTURAL MEMBERS (EXCEPT WHERE NOTED IN DRAWINGS) WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT/ENGINEER.										
8. EXCEPT WHERE NOTED, ALL DUCTWORK TO BE GALVANIZED STEEL, CONSTRUCTED AND INSTALLED ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE".										
9. FABRIC DUCT SHALL BE INSTALLED AND SUPPORTED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.										
10. COORDINATE DIFFUSER, REGISTER OR GRILLE LAYOUT WITH OTHER CEILING COMPONENTS (LIGHTS, FIRE PROTECTION SPRINKLERS, SPEAKERS, SENSORS, ETC.).										
11. ALL DUCT ELBOWS TO HAVE A CENTERLINE RADIUS OF 1.5 TIMES THE DIAMETER OF THE DUCT. SQUARE ELBOWS SHALL HAVE TURNING VENES.										
12. WHERE INTERIOR OF DUCT IS VISIBLE THROUGH GRILLES, REGISTERS OR DIFFUSERS, PAINT INSIDE OF DUCT WITH FLAT BLACK PAINT.										
13. INSTALL FLEXIBLE CONNECTORS IMMEDIATELY ADJACENT TO EQUIPMENT IN DUCTS ASSOCIATED WITH FANS AND MOTORIZED EQUIPMENT SUPPORTED BY VIBRATION ISOLATORS.										
14. ALL EQUIPMENT, DUCTWORK, PIPING AND MATERIAL INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.										
15. CLEARLY LABEL ALL PIPING REGARDING USE AND DIRECTION OF FLOW.										
16. COORDINATE REQUIREMENTS FOR ACCESS PANELS AND DOORS WHERE MECHANICAL ITEMS REQUIRING ACCESS ARE CONCEALED BEHIND FINISHED SURFACES. THIS CONTRACTOR SHALL PROVIDE ACCESS PANELS OR DOORS OF SUFFICIENT SIZE TO ALLOW ACCESS TO THEIR WORK. ACCESS DOORS OR PANELS TO BE INSTALLED BY THE GENERAL CONTRACTOR.										
17. REFRIGERANT PIPING SHALL BE SIZED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. EXPOSED SOFT COPPER REFRIGERANT PIPE SHALL BE PROTECTED FROM POTENTIAL DAMAGE.										
18. CONTRACTOR HAS SOLE RESPONSIBILITY TO COORDINATE ANY SUBSTITUTIONS WITH ALL OTHER DISCIPLINES. EQUIPMENT OF GREATER POWER, DIMENSIONS, CAPACITIES, AND RATINGS MAY BE FURNISHED PROVIDED SUCH PROPOSED EQUIPMENT CONNECTING MECHANICAL AND ELECTRICAL SERVICES, CIRCUIT BREAKERS, CONDUIT, MOTORS, BASES AND EQUIPMENT SPACES ARE INCREASED. NO ADDITIONAL COSTS WILL BE APPROVED FOR THESE INCREASES.										
19. PROVIDE ALL NECESSARY FLASHING, SEALING, ETC. TO MAINTAIN THE WATERPROOF INTEGRITY OF THE BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF ITEMS AS REQUIRED BY THIS SCOPE OF WORK.										
20. CONTRACTOR TO GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.										
21. PROVIDE (3) SETS OF OPERATION AND MAINTENANCE MANUALS TO THE OWNER. THESE ARE TO INCLUDE ALL EQUIPMENT CUT-SHEETS, MANUFACTURERS RECOMMENDED MAINTENANCE PROCEDURES, MANUFACTURERS WARRANTY INFORMATION AND CONTRACTORS WARRANTY LETTER AND CONTACT INFORMATION.										
22. THIS CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO THE OWNER FOR THEIR WORK ON THE ENTIRE PROJECT.										
23. PROVIDE UV PROTECTIVE COATING/COVERING ON ALL ELASTOMERIC PIPE INSULATION WHERE EXPOSED TO SUNLIGHT.										
24. PROVIDE CLOSED-CELL ELASTOMERIC INSULATION ON ALL METAL CONDENSATE DRAIN PIPES.										

ASHRAE STANDARD 62.1-2019 VENTILATION REQUIREMENTS SCHEDULE										
ZONE NAME	ROOM NAME	FLOOR AREA	REQUIRED O.A. (CFM/SQ.FT.) (Ras)	POPULATION OF AREA SERVED (Ps)	REQUIRED O.A. (CFM/PERSON) (Rps)	AIR DISTRIBUTION EFFECTIVENESS (EZ)	VENTILATION SYSTEM EFF. (Ev)	REQUIRED OUTSIDE AIR (Vol)	DESIGN OUTSIDE AIR	REMARKS
RTU-1	ENTRY 101	44	0.06	2	--	0.80	0.98	3	5	①
RTU-1	COMMON AREA 102	330	0.06	5	--	0.80	0.98	20	20	①
RTU-1	OFFICE 103	190	0.06	2	5	0.80	0.98	25	25	①
RTU-1	REGROUP 104	155	0.06	15	7.5	0.80	0.98	122	125	①
RTU-1	CLASSROOM 105	422	0.12	18	10	0.80	0.98	230	230	①
RTU-1	CLASSROOM 106	352	0.12	25	10	0.80	0.98	292	300	①
RTU-1	SERVING 108	100	0.06	2	5	0.80	0.98	15	15	①

① MAXIMUM QUANTITIES LISTED PER TABLE 403.3 IN THE 2021 MICHIGAN MECHANICAL CODE.

GAS FIRED PACKAGED ROOFTOP UNIT SCHEDULE											REMARKS
MARK	LOCATION	MODEL	TOTAL CFM	OUTSIDE AIR CFM	EXT. S.P.	SAF HP	HTG MBH IN/OUT	COOLING TOT/SEN	VOLTAGE	UNIT WIRING MCA MCOP	REMARKS
RTU-1	ROOF	48FEEM08	3,000	750	0.50	2	180/148	90/68.9	208V-3ph	43 50	7.5 TON ①

① BASED ON CARRIER, R454B REFRIGERANT WITH FUSED DISCONNECT AND CONVENIENCE OUTLET  
ULTRA LOW LEAK ECONOMIZER W/BAROMETRIC RELIEF, 2-SPEED INDOOR FAN MOTOR,  
SMOKE DETECTOR FURNISHED AND INSTALLED BY E.C.

ELECTRIC CABINET UNIT HEATER SCHEDULE								REMARKS
MARK	LOCATION	MODEL	CFM	HEATING KW	FAN SPEED	RPM	VOLT	REMARKS
UH-1	SEE PLANS	UHWA-031A2AT	230	3.0	HIGH	--	208V-1ph	①

① BASED ON TRANE

FAN SCHEDULE								REMARKS	
MARK	SERVICE	MODEL	CFM	S.P. WATTS/	RPM	WEIGHT	SONES	VOLTAGE	REMARKS
EF-1	EXHAUST FAN	SP-A390	75	.25	14W	973	24	2.5	208/60/1 ①

① BASED ON GREENHECK


ELECTRICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MTG. HT. TO Q.
S <sub>3</sub>	SINGLE POLE OR 3-WAY SWITCH-SPECIFICATION GRADE	46"
S <sub>4</sub>	FOUR WAY SWITCH-SPEC. GRADE	46"
S <sub>K</sub>	KEY OPERATED SWITCH-SPEC. GRADE	46"
S <sub>D</sub>	DIMMER SWITCH	46"
S <sub>IR</sub>	IR SWITCH	46"
S <sub>IRD</sub>	IR SWITCH DIMMABLE	46"
S <sub>P</sub>	SWITCH WITH PILOT LIGHT	46"
S <sub>M</sub>	MANUAL MOTOR STARTER SWITCH	46"
OS	OCCUPANCY SENSOR	---
PC	PHOTO CELL	---
CS	CONTROL STATION	46"
DS	DAYLIGHT SENSOR	---
PP	POWER PACK	---
SC	SPLIT WIRED RECEPTACLE C-DENOTES CONTROLLED VIA RELAY OR OCC SENSOR	18"
WR	WATER RESISTANT GROUND FAULT CIRCUIT INTERRUPTER WR-DENOTES WEATHERPROOF WHILE IN USE COVER	18"
DU	DUPLEX OUTLET-SPEC. GRADE CIRCLE AROUND SYMBOL= CEILING MOUNTED	18"
DO	(D) DUPLEX OUTLET-SPEC. GRADE CIRCLE AROUND SYMBOL= CEILING MOUNTED	18"
SP	SPECIAL SINGLE RECEPTACLE	18"
SO	SPECIAL OUTLET-CHARACTERISTICS AS NOTED ON PLANS	AS NOTED
EV	EV CHARGER FUTURE	---
DA	DATA OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER 1-1/4" UP WALL TO CLG. SPACE	18"
TV	TV OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER 1-1/4" UP WALL TO CLG. SPACE	18"
TE	TELEPHONE OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER 1-1/4" UP WALL TO CLG. SPACE	18"
WN	WIRELESS ROUTER CIRCLE AROUND SYMBOL= CEILING MOUNTED	---
FB	FLOOR BOX 2 RECEPT, 2 DATA THOMAS & BETTS #66-SC 1-1/4" UP TO FLOORBOX FOR DATA	---
FB	FLOOR BOX 1 RECEPT, 1 DATA - THOMAS & BETTS #66-SC 1-1/4" UP TO FLOORBOX FOR DATA	---
TV	JUNCTION BOX - HUBBELL NSAV2M WITH RECEPTACLE KIT HUBBELL NSOK PROVIDE CONNECTOR PLATE FOR AV	AS NOTED
JO	JUNCTION BOX -4" SQ. BOX W/ 2 GANG RAISED COVER 1-1/4" UP WALL TO CLG. SPACE UNLESS OTHERWISE NOTED	AS NOTED
PO	POWER POLE - SEE DRAWING FOR POWER- POWER DATA SPECIFICATIONS	---
EU	ELECTRIC UTILITY METER	---
FD	FUSED DISCONNECT SWITCH-FDS-HEAVY DUTY	46"
MF	NON-FUSED DISCONNECT SWITCH-MFD-HEAVY DUTY	46"
SW	SW. AND PLUGFUSE HOLDER-BUSSMANN +SSU & FUSESTAT FUSE	AT EQUIP.
MS	MAGNETIC MOTOR STARTER-MS	46"
CM	COMBINATION MAG. STARTER/ FUSED DISC. SWITCH -CSFDS	46"
CS	COMBINATION MAG. STARTER/NON-FUSED DISC. SWITCH -CSNFDs	46"
VFD	VARIABLE FREQUENCY DRIVE	---
SP	SINGLE PHASE ELECTRIC MOTOR	---
TP	THREE PHASE ELECTRIC MOTOR	---
BCP	SURFACE OR FLUSH MTD. BRANCH CIRCUIT PANELBOARD	72" TO TOP
TR	TRANSFORMER	---
PB	PUSH BUTTON	46"
TH	THERMOSTAT - E.C TO ROUGH-IN SINGLE GANG BOX AND 1/2" TO ACCESSIBLE CEILING SPACE	46"
HD	HUMIDISTAT - E.C TO ROUGH-IN SINGLE GANG BOX AND 1/2" TO ACCESSIBLE CEILING SPACE	46"
DL	RECESSED DOWNLIGHT LUMINAIRE	---
WL	RECESSED WALLWASH LUMINAIRE	---
SL	SURFACE LUMINAIRE	---
PL	PENDANT LUMINAIRE	---
WM	WALL MOUNTED LUMINAIRE	---
SL	SITE LIGHTING LUMINAIRE	---
NL	NIGHT LIGHT	---
SL	STRIP LUMINAIRE	---
AL	LED ACCENT/UNDER CABINET LUMINAIRE	---
RL	RECESSED LUMINAIRE 2x4 OR 2x2	---
SL	SURFACE LUMINAIRE 2x4 OR 2x2	---
TL	TRACK LIGHTING LUMINAIRE	---
PL	PARTIALLY SHADED LUMINAIRE OR WITH "E" SUFFIX ARE EMERGENCY	---
ES	EV SIGN - WALL MOUNTED OR CEILING MOUNTED ARROWS INDICATE PATH OF EGGS	---
RE	REMOTE EMERGENCY HEAD	---
BL	BATTERY EMERGENCY LUMINAIRE	---

SYSTEMS SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MTG. HT. TO Q.
F	FIRE ALARM PULL STATION	46"
WP	FIRE ALARM HORN/STROBE LIGHT (WP-DENOTES WEATHER PROOF)	80"
R	AREA SMOKE DETECTOR-PHOTOELECTRIC	---
VA	VISUAL ONLY ALARM	80"
AO	AUDIO ONLY ALARM	---
CS	CEILING SPEAKER	---
SL	SPEAKER/STROBE LIGHT	---
CO	SMOKEHORN BASE CO-DENOTES COMBO CARBON MONOXIDE/SMOKE	---
DH	MAGNETIC DOOR HOLD OPEN	---
CG	CARBON MONOXIDE SENSOR E.C TO ROUGH-IN SINGLE GANG BOX AND 1/2" TO ACCESSIBLE CEILING SPACE	---
D	DUCT SMOKE DETECTOR	---
H	HEAT DETECTOR	---
TS	O.S.&Y TAMPER SWITCH	---
FS	WATER FLOW SWITCH	---
RT	REMOTE ALARM KEY TEST SWITCH	46"
CR	FIRE ALARM CONTROL RELAY	---
BD	BEAM DETECTOR	---
FSD	FIRE/SMOKE DAMPER	---
FACP	FIRE ALARM CONTROL PANEL	---
FAA	FIRE ALARM ANNUNCIATOR PANEL	---
CS	CEILING SPEAKER	---
CR	CARD READER	46"
SD	SECURITY DOOR CONTACT	AT DOOR HEAD
SI	SECURITY INTERCOM	46"
SC	SECURITY CAMERA - "W" DENOTES WALL MOUNTED CHEVRON INDICATES AIM LINE	TYPICALLY CLG MOUNTED
SDR	SECURITY DOOR REQUEST TO EXIT	AT DOOR HEAD

### ELECTRICAL SPECIFICATIONS

#### 26-0500 GENERAL PROVISIONS

- FURNISH AND INSTALL FIRST-CLASS WORKING SYSTEMS, TESTED AND READY FOR OPERATION, COMPLETE WITH LABOR AND MATERIALS (U.L. APPROVED COMMERCIAL GRADE), CONFORM TO DRAWINGS, SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS. USE PROPER NEMA RATED EQUIPMENT (i.e. "3R" WEATHERPROOF, "1" GENERAL DUTY, ETC.)
- COORDINATE WITH THE DRAWINGS AND SPECIFICATIONS OF THE OTHER TRADES AND WITH THE OWNER.
- FIELD VERIFICATION OF ALL DIMENSIONS ARE REQUIRED, EXACT LOCATIONS, DISTANCES, AND LEVELS WILL BE GOVERNED BY ACTUAL FIELD CONDITIONS.
- COMPLY WITH THE NATIONAL ELECTRICAL CODE 2023, PLUS LOCAL OR STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE PARTICULAR CLASS OF WORK; ANY FEES IN CONNECTION THEREWITH ARE TO BE PAID BY ELECTRICAL CONTRACTOR.
- COMPLETE REQUIRED DEMOLITION, MAINTAINING OPERATION OF EXISTING TO REMAIN (COORDINATE WITH GC REGARDING ANY PHASING OF THE PROJECT) REWIRE EXISTING CIRCUITS IF REQUIRED.
- WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
- SUBMITTALS FOR SWITCHGEAR, LIGHT FIXTURES, LIGHTING CONTROL AND FIRE ALARM ARE REQUIRED PERIOR TO RELEASE OF EQUIPMENT. REQUEST FOR SUBSTITUTION IS REQUIRED 7 WORKING DAYS FOR ENGINEER'S REVIEW.

#### TESTING

- WORK REQUIRED UNDER THIS HEADING INCLUDES THE COMPLETE INSTALLATION, SETUP, AND TESTING OF ALL SYSTEMS, WHICH ARE A PERMANENT PART OF THE BUILDING. THESE SYSTEMS SHALL INCLUDE, BUT ARE NOT LIMITED TO THE TELEPHONE, DATA AND FIRE ALARM SYSTEMS. THE CONTRACTOR AND/OR HIS SUB-CONTRACTOR(S) SHALL PROVIDE MINIMUM INSTRUCTIONS, FOR EACH SYSTEM THE EC IS RESPONSIBLE FOR, TO THE OWNER.
- IT ALSO INCLUDES THE INSTALLATION OF CONDUIT SYSTEMS FOR EQUIPMENT NOT BELONGING TO THE OWNER BUT INSTALLED AND OPERATED FOR THE OWNER BY OTHERS.

#### 26-0 520-26-0533, 260534 RACEWAY, BOXES, AND FITTINGS

- ALL WIRING SHALL BE RUN IN CONCEALED EMT (THINWALL) CONDUIT IN THE FINISHED AREAS OF THE BUILDING. CONDUIT MAY BE EXPOSED IN EQUIPMENT ROOMS OR OVERHEAD IN ROOMS WITHOUT CEILINGS. CONDUITS EXPOSED TO WEATHER TO BE RIGID (RIGID GALVANIZED CONDUIT), MC CABLE ALLOWED IN AREAS ALLOWED PER NATIONAL ELECTRICAL CODE AND NOT SUBJECT TO DAMAGE.
- BACKBOARDS: 3/4 INCH WEATHERPROOF PLYWOOD, WITH FIRE RETARDANT SEALER, ONE PIECE PER INSTALLATION.

#### 26-2816 CONTROLS

- COMPLETE CONTROLS FOR LIGHTING AND MECHANICAL EQUIPMENT, AS NOTED ON THE DRAWINGS. ALL LIGHTING CONTROLS SHALL COMPLY WITH 2015 MICHIGAN ENERGY CODE.
- APPROVED MANUFACTURERS: ACUTY, COOPER, HUBBELL AND LEVITON.

#### 26-0219 CONDUCTORS

- ALL CONDUCTORS SHALL BE NEW. ALL CONDUCTORS FOR POWER AND LIGHTING SYSTEMS WIRING SHALL BE 90% CONDUCTIVITY COPPER TYPE THHN OR THW. ALUMINUM SHALL BE PERMITTED FOR SERVICE ENTRANCE AND PANEL FEEDS. BRANCH CIRCUIT WIRING SHALL BE COPPER.
- SUPERVISED, NON-CODED, ZONE ANNUNCIATED, CLOSED LOOP, 24 VOLT DC FIRE ALARM SYSTEM. THE SYSTEM SHALL BE DESIGNED TO SUPERVISE THE SYSTEM WIRING AND THE CONNECTION TO EACH DEVICE; DEVICES SHALL HAVE FACTORY INSTALLED TERMINAL BLOCKS SO THAT ALL WIRING IS TERMINATED WITHOUT USE OF PIGTAIL CONNECTIONS. SYSTEM SHALL BE WIRED IN ACCORDANCE WITH NFPA REQUIREMENTS FOR CLASS "B" WIRING.

#### 26-2736 WIRING DEVICES

- CONVENIENCE OUTLETS SHALL BE SPECIFICATION GRADE, RATED AT 20 AMPERE, GROUNDING TYPE, 125 VOLT, AND BEAR U.L. LABEL OF APPROVAL. STAINLESS STEEL COVER PLATES. MANUFACTURERS: PASS AND SEYMOUR CATALOG 5251-1, OR EQUAL BY HUBBELL, AND LEVITON.
- ALL SWITCHES FOR LIGHTING SHALL BE SPECIFICATION GRADE RATED AT 20 AMPERE, 120/277 VOLTS. PASS AND SEYMOUR CATALOG 20AC-1 OR EQUAL BY HUBBELL, AND LEVITON.

#### 16350 GROUNDING

- INSTALL COMPLETE GROUNDING SYSTEM IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
- INSTALL BONDING WIRE IN NONMETALLIC AND FLEXIBLE CONDUIT CONNECTED AT SOURCE END TO PANELBOARD EQUIPMENT GROUND BAR AND AT LOAD END TO ENCLOSURE.

#### 5. ACCEPTABLE MANUFACTURERS

- NOTIFIER
- EQUIPMENT SHALL BE PURCHASED FROM AN ESTABLISHED SUPPLIER LOCATED WITHIN 100 MILES OF PROJECT WHO IS A STOCKING DISTRIBUTOR WITH A FULL-TIME STAFF OF FACTORY TRAINED SERVICE PERSONNEL.

#### 3. FIRE ALARM STATION

- CODED, SEMI-FLUSH MOUNTED, INDICATING OPERATION PHYSICALLY UNTIL RESET.

#### 7. HEAT DETECTION EQUIPMENT

- DETECTORS: COMBINED FIXED TEMPERATURE/RATE OF RISE FOR CEILING MOUNTING. FIXED TEMPERATURE: 135°F (67°C). RATE OF RISE: 14°F (8°C) PER MINUTE.

RESETTING: PROVIDE AUTOMATIC RESET RATE-OF-RISE ELEMENT AND NON-RESET, INDICATING TYPE FIXED TEMPERATURE ELEMENT.

#### 8. SMOKE DETECTORS

LABEL COVERS WITH CKT'S CONTAINED WITHIN USE PERMANENT MARKER PEN OR OTHER APPROVED METHOD.

LABEL EXAMPLES:  
"FIRE ALARM ZONES 2&3"  
"P.A. ZONES 4,5,6&7 DATA CIRCUITS A&B"  
"EXIT SIGNS-EMERG. SIGNS-EMERG. CKTS. BPEM-3,4"

LABEL COVERS WITH CKT'S CONTAINED WITHIN USE PERMANENT MARKER PEN OR OTHER APPROVED METHOD.

LABEL EXAMPLES:  
"FIRE ALARM ZONES 2&3"  
"P.A. ZONES 4,5,6&7 DATA CIRCUITS A&B"  
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"P.A. ZONES 4,5,6&7 DATA CIRCUITS A&B"  
"EXIT SIGNS-EMERG. SIGNS-EMERG. CKTS. BPEM-3,4"

LABEL COVERS WITH CKT'S CONTAINED WITHIN USE PERMANENT MARKER PEN OR OTHER APPROVED METHOD.

LABEL EXAMPLES:  
"FIRE ALARM ZONES 2&3"  
"P.A. ZONES 4,5,6&7 DATA CIRCUITS A&B"  
"EXIT SIGNS-EMERG. SIGNS-EMERG. CKTS. BPEM-3,4"

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LABEL COVERS WITH CKT'S CONTAINED WITHIN USE PERMANENT MARKER PEN OR OTHER APPROVED METHOD.

**TYPICAL AMPERAGE/CONDUCTOR SIZES FOR ONE-LINE**

SERVICE FEEDERS (COPPER)	
1	60A 4#4+10G, 1-1/4°C
2	100A 4#1+#8G, 1-1/2°C
3	125A 4#20+6G, 2°C
4	150A 4#30+6G, 2°C
5	200A 4#40, 2-1/2°C
6	225A 4#40, 2-1/2°C
7	400A (24#250kcmil, 2-1/2°C
8	600A (24#500kcmil, 3°C
9	800A (34#400kcmil, 3-1/2°C
10	1200A (4#4500kcmil, 3-1/2°C
11	1400A (5#4500kcmil, 3-1/2°C
12	1600A (6#4500kcmil, 3°C
13	2000A (7#4500kcmil, 3-1/2°C
14	2500A (9#4500kcmil, 3-1/2°C
BRANCH FEEDERS - 3 WIRE (COPPER)	
15	30A 3#10+10G, 3/4°C
16	40A 3#8+10G, 3/4°C
17	60A 3#6+10G, 3/4°C
18	80A 3#4+8G, 3/4°C
19	100A 3#3+6G, 1°C
20	125A 3#1+6G, 1-1/2°C
21	200A 3#40+4G, 2°C
22	225A 3#40+4G, 2°C
BRANCH FEEDERS - 4 WIRE (COPPER)	
23	60A 4#6+10G, 1°C
24	100A 4#3+8G, 1-1/4°C
25	125A 4#1+6G, 1-1/2°C
26	150A 4#10+6G, 1-1/2°C
27	175A 4#20+6G, 2°C
28	200A 4#40+4G, 2-1/2°C
29	250A 4#250kcmil+4G, 2-1/2°C
30	400A 4#600kcmil+4G, 3-1/2°C
31	600A (24#350kcmil+10G, 3°C
32	800A (24#600kcmil+10G, 4°C
33	1200A (4#4500kcmil+30G, 3°C

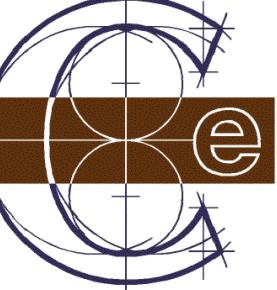

**EXISTING 120/208V- 30-4W ONE LINE**

NOT TO SCALE

ONE-LINE DIAGRAM GENERAL NOTES

1. REFER TO WIRE SIZING CHART. COPPER OR ALUMINUM MAY BE UTILIZED AT CONTRACTOR'S DISCRETION UNLESS OTHERWISE NOTED. COORDINATE ROUTING WITH THE GC ON SITE.
2. VERIFY COMPLIANCE WITH DRAWINGS FROM SERVICE ENTRANCE EQUIPMENT TO FEEDER CIRCUITS.
3. VERIFY HVAC MOTOR CIRCUIT PROTECTION AND TEST THERMAL OVERLOAD PROTECTION ON HVAC MOTORS.

Ex. P1																							
CKT NO.	BASED ON SQ.D NQ OR EQUAL				CKT BRKR	L	CKT BRKR	BASED ON SQ.D NQ OR EQUAL				CKT NO.											
	LTG	HVAC	MTRS.	REC.	OTHER	DESCRIPTION	L	CKT BRKR	DESCRIPTION	LTG	HVAC	MTRS.	REC.	OTHER									
1	720		OFFICE 103 RECEPTACLES		A	50/3	EX RTU-1	11500		2													
3	720		105 RECEPTACLES		B	1		720		4													
5	720		REGROUP RECEPTACLES		C	1		720		6													
7	720		CLASSROOM 105 RECEPT		A	20	CLASSROOM 106 RECEPT	720		8													
9	1000		MICROWAVE RECEPT		B	20	MICROWAVE RECEPT	1000		10													
11	360		KITCHEN RECEPTACLES		C	20	REFRIGERATOR RECEPT	1000		12													
13	180		JANITOR RECEPT		A	20	GFCI - EWC RECEPT	500		14													
15	360		BATHROOM RECEPTS		B	20	LIGHTS	795		16													
17	2912		EF-1		C	20	WATER HEATER	1500		18													
19	1		1		A	20	CLOCKS	300		20													
21	3000		UH-1		B	30/2	SPACE	300		22													
23	1		1		C		SPACE	300		24													
25	1		1		A		SPACE	300		26													
27	1		1		B		SPACE	300		28													
29	1		1		C		SPACE	300		30													
31	1		1		A		SPACE	300		32													
33	1		1		B		SPACE	300		34													
35	1		1		C		SPACE	300		36													
37	1		1		A		SPACE	300		38													
39	1		1		B		SPACE	300		40													
41	1		1		C		SPACE	300		42													
SUBT		0	5912	0	3780	1000	DIVERSITY		795		11500	0	720	4300	SUBT								
TOTAL LOAD												VOLTS:	208Y/120										
LTG =		795 VA		125%		994 VA		994 VA		994 VA		PHASE:	3										
HVAC=		17,412 VA		100%		17,412 VA		17,412 VA		17,412 VA		CIRCUIT CAPACITY:											
MOTORS=		0		0%		125%LRGST + 100%		0		0		MAIN BRKR:											
*RECEPT=		4,500 VA		100%		50%>10kVA		4,500 VA		200 A		MOUNTING:											
OTHER=		5,300 VA		100%		5,300 VA		5,300 VA		SURFACE		LOCATION:											
TOTAL DIV. LOAD:												OFFICE 103											
LINE AMPS=												78											
LINE AMPS X 1.25=												98 A											
NOTES:																							



OWNER SIGNOFF

Classic Engineering, LLC  
100 Cesar E Chavez Ave SW  
Grand Rapids, Michigan 49503  
(616) 742-2810  
www.classicengineering.com  
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LIGHTHOUSE NORTH  
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CEDAR SPRINGS MICHIGAN 49319



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Classic Engineering, LLC  
100 Cesar E Chavez Ave SW  
Grand Rapids, Michigan 49503  
(616) 742-2810  
www.classicengineering.com  
Proj. #2026020

LIGHTHOUSE NORTH  
151 S MAIN  
CEDAR SPRINGS MICHIGAN 49319



616 677 5997 OFFICE  
616 813 2452 MOBILE  
RMD@RMDArchitects.net  
1744 MARINE ESTATES DR.  
TALLMADGE TOWNSHIP, MI 49435

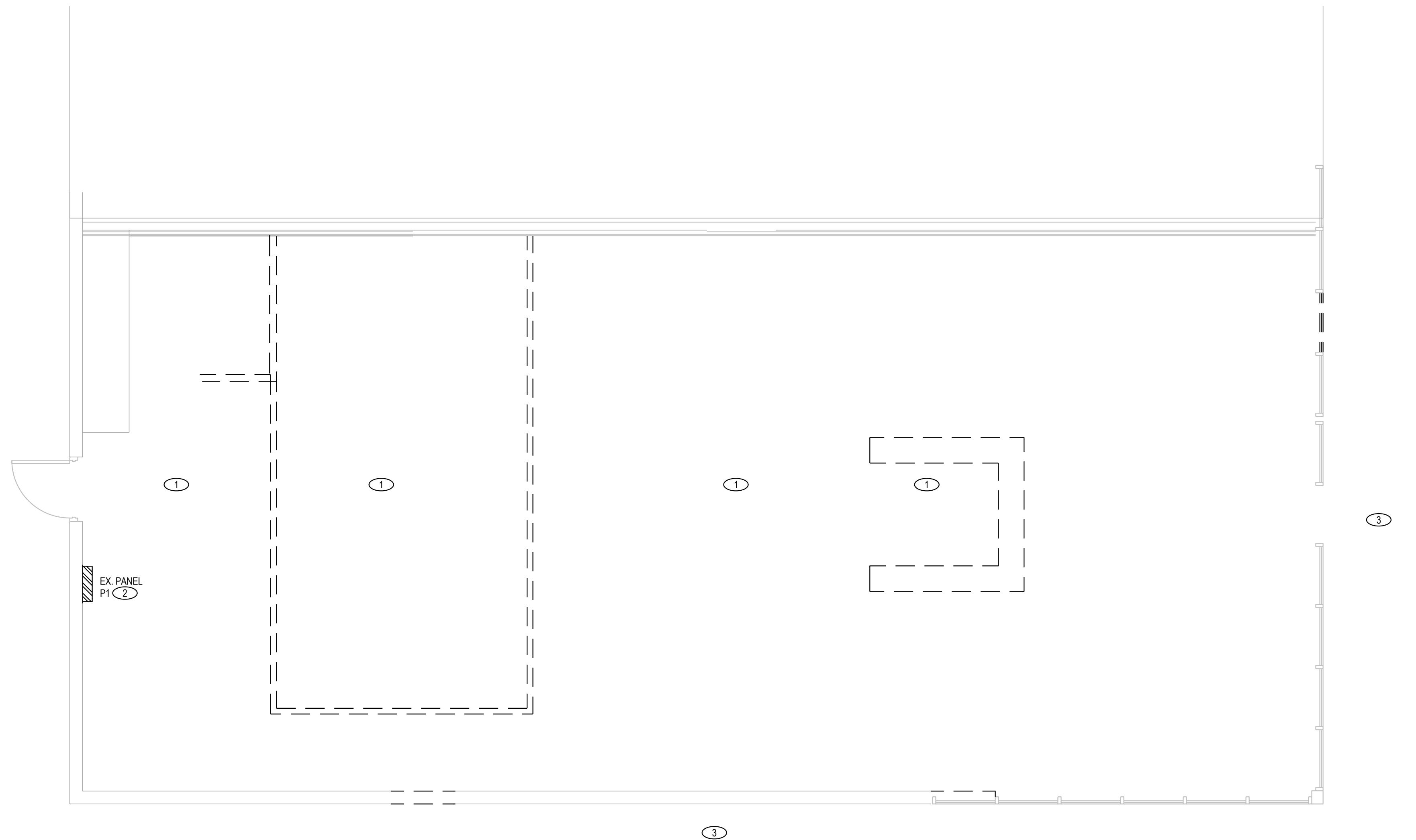
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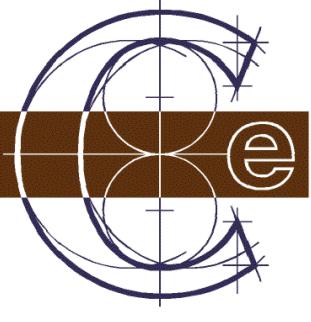
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**PROJECT #**  
SHEET NUMBER  
**ED-1**  
SHEET NAME  
**FLOOR PLAN**

**DEMOLITION POWER KEYNOTES:**

- ① REMOVE LIGHTS, SWITCHES, RECEPTACLES AND ANY OTHER ELECTRICAL DEVICE(S) COMPLETELY BACK TO SOURCE.
- ② PANEL IS EXISTING TO REMAIN.
- ③ EXTERIOR LIGHTING IS EXISTING TO REMAIN.



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



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Classic Engineering, LLC  
100 Cesar E Chavez Ave SW  
Grand Rapids, Michigan 49503  
(616) 742-2810  
www.classicengineering.com  
Proj. #2026020

LIGHTHOUSE NORTH  
151 S MAIN  
CEDAR SPRINGS MICHIGAN 49319



616 677 5997 OFFICE  
616 813 2452 MOBILE  
RMDArchitects.net  
1744 MARINE ESTATES DR.  
TALLMADGE TOWNSHIP, MI 49435

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**PROJECT #**

SHEET NUMBER  
**EL-1**

SHEET NAME  
**FLOOR PLAN**

## LIGHTING CONTROL NOTES:

- SEQUENCE OF OPERATION PER SPACE
  - CLASSROOM: AUTOMATICALLY TURN OFF LIGHTS WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE. THE LIGHTS SHALL BE A MANUAL ON OR CONTROLLED TO AUTOMATICALLY TURN THE LIGHTING TO NOT MORE THAN 50% POWER. THEY SHALL INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN OFF THE LIGHTS, WITH MANUAL DIMMABLE ON/OFF AND CONTROL OVER OCCUPANCY SENSOR.
  - CORRIDOR: PROVIDE PASSIVE INFRARED OCCUPANCY SENSOR SUITABLE FOR SIZE OF ROOM TO CONTROL LIGHTING AUTO OFF TO 50% AFTER 20 MINUTES DURATION. NO LOCAL CONTROL STATION PROVIDED DUE TO SAFETY. LIGHTS SHALL BE DESIGNED TO TURN OFF WHEN EITHER UNOCCUPIED OR SCHEDULED TO BE UNOCCUPIED.
- LIGHTING CONTROL SYSTEM SHALL MEET MICHIGAN 2021 ENERGY CODE.

## LIGHTING KEY NOTES:

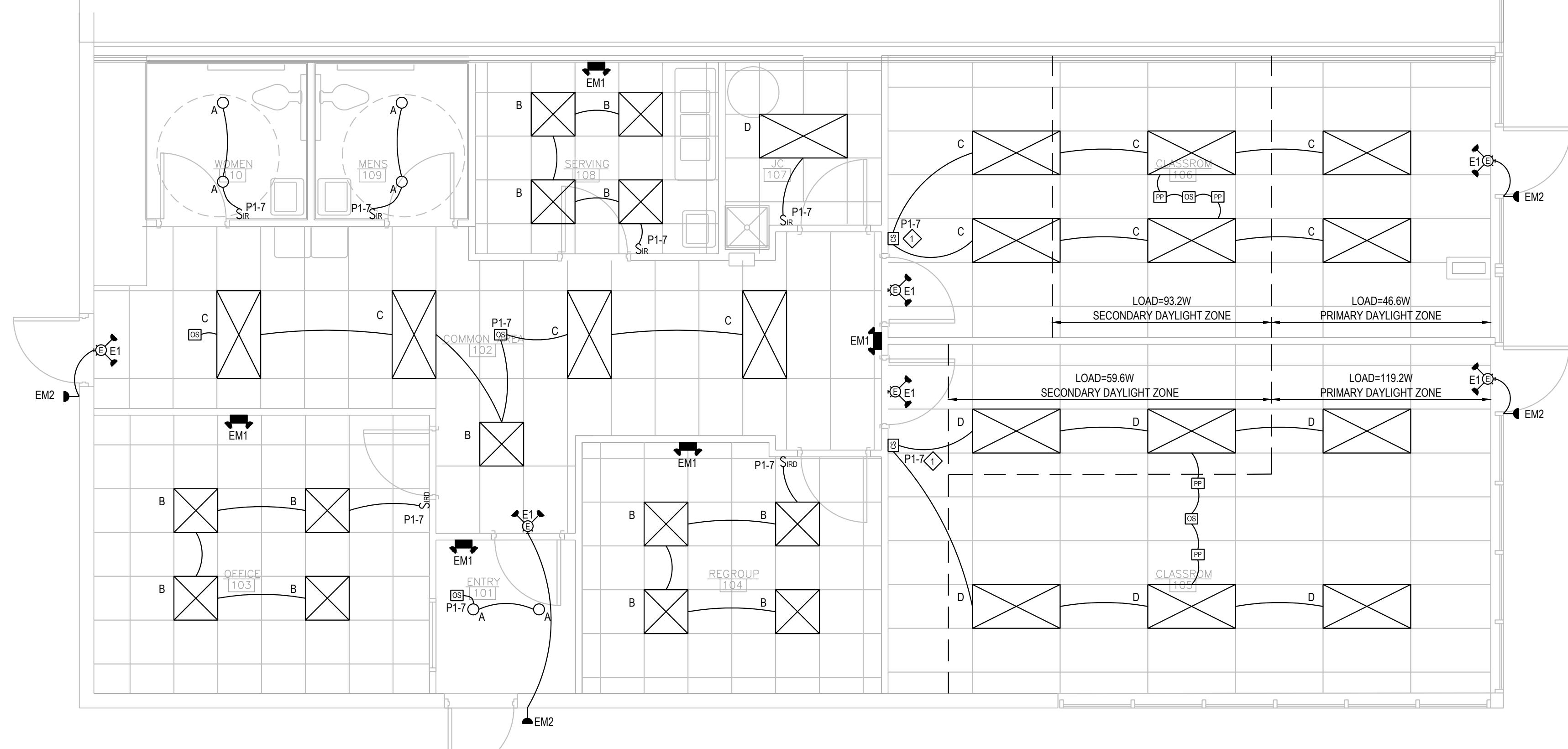
◆ PROVIDE nPODMA 2P DX OR OWNER APPROVED EQUAL. DUAL ZONE SWITCH WITH ON/OFF RAISE/LOWER FUNCTIONALITY FOR EACH ZONE.

## GENERAL LIGHTING NOTES:

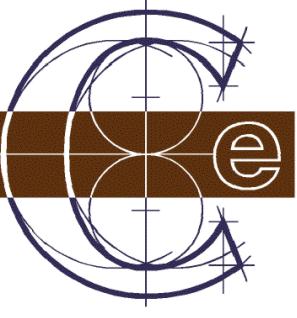
- CONNECT EMERGENCY LIGHTING TO CIRCUIT FEEDING GENERAL LIGHTING IN THAT AREA.
- EXIT SIGNS TO BE CONNECTED TO UNSWITCHED LIGHTING CIRCUIT OR EMERGENCY LIGHTING CIRCUIT FEEDING THAT AREA.

LIGHT FIXTURE LEGEND							
FIXTURE TYPE	DESCRIPTION	MANU.	CATALOG PART#	VOLTAGE	LAMPS	Wattage	REMARKS
A	6"	ACUTY COOPER COLUMBIA	JSBTC 6IN TUVH 90CRI W MWM6	120	LED	14W	
B	2X2 PANEL	ACUTY COOPER COLUMBIA	2GTL2-20L-A12125-LP830	120	LED	18.4W	
C	2X4 PANEL	ACUTY COOPER COLUMBIA	2GTL4-30L-A12125-LP830	120	LED	23.3W	
D	2X4 PANEL	ACUTY COOPER COLUMBIA	2GTL4-40L-A12125-LP830	120	LED	29.8W	
E1	EXIT LIGHT	ACUTY COOPER COLUMBIA	LHQML LED	120	LED	1.5W	90 MIN BATTERY BACKUP
EM1	EMERGENCY LIGHT	ACUTY COOPER COLUMBIA	ELM4L	120	LED	2.5W	90 MIN BATTERY BACKUP
EM2	EMERGENCY LIGHT	ACUTY COOPER COLUMBIA	ELA-Q-L09304	120	LED		CEILING MOUNTED
							90 MIN BATTERY BACKUP

GENERAL LIGHT FIXTURE SCHEDULE NOTES: OR OWNER APPROVED EQUALS



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



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100 Cesar E Chavez Ave SW  
Grand Rapids, Michigan 49503  
(616) 742-2810  
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LIGHTHOUSE NORTH  
151 S MAIN  
CEDAR SPRINGS MICHIGAN 49319



616 677 5997 OFFICE  
616 813 2452 MOBILE  
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1744 MARINE ESTATES DR.  
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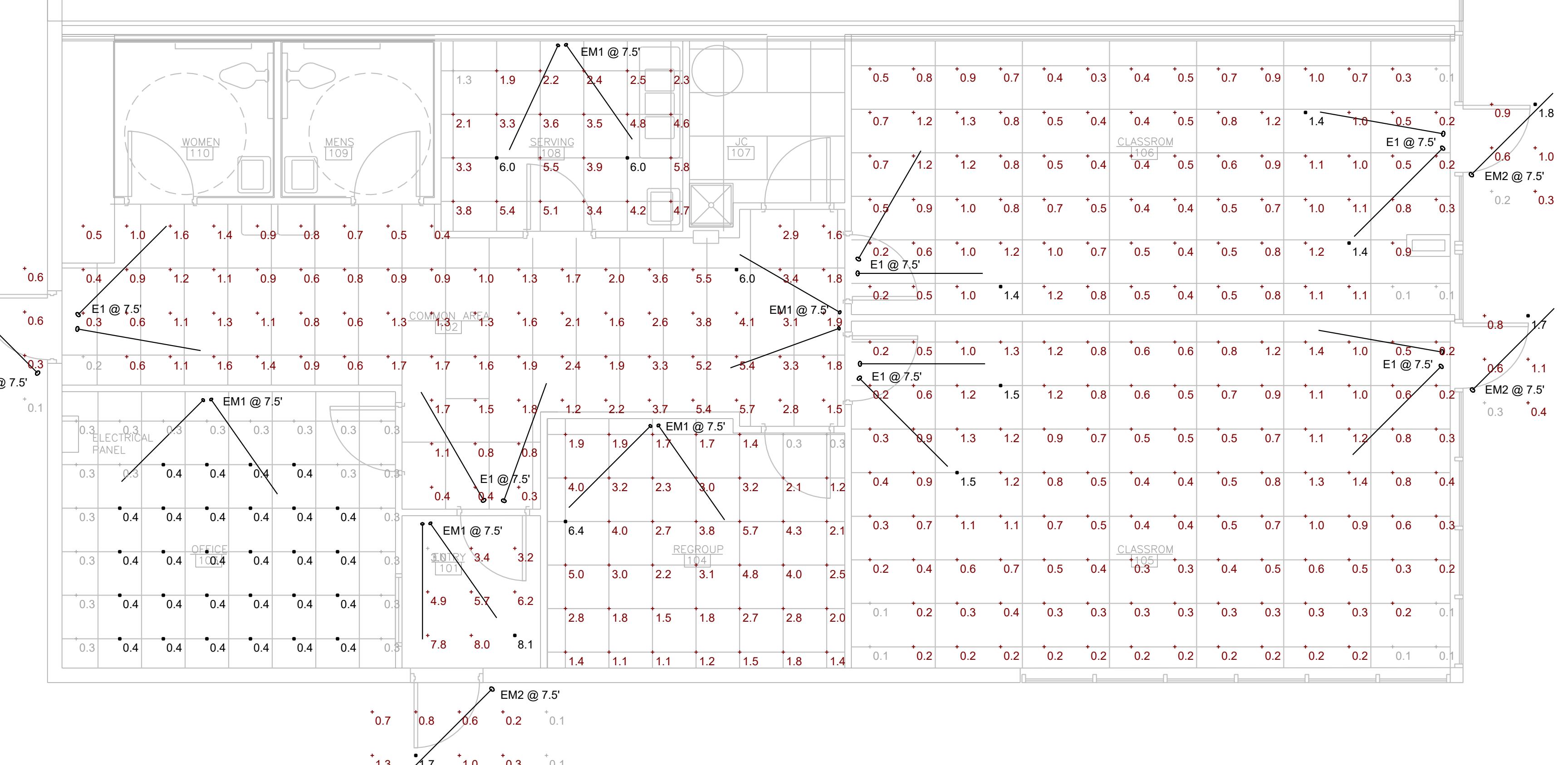
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SHEET NAME

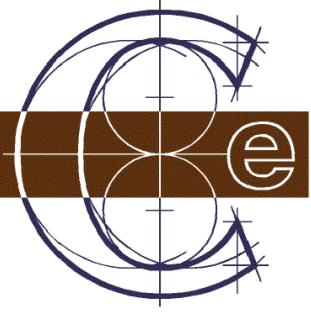
FLOOR PLAN

Schedule											
Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power	Polar Plot
○	E1		6	Lithonia Lighting	LHQM LED	QUANTUM LED EMERGENCY COMBO (ONE HEAD ONLY)	1	Absolute	1	1.5	
○	EM1		5	Lithonia Lighting	ELM4L	ELM4L SP640L	1	345	1	2.5	
○	EM2		4	Lithonia Lighting	ELA Q L0304	ELM2 LED REMOTE LAMP HEAD	1	80	1	0	

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CLASSROOM 105 EXTERIOR	+	0.8 fc	1.7 fc	0.3 fc	5.7:1	2.7:1
CLASSROOM 106	+	0.7 fc	1.4 fc	0.1 fc	14.0:1	7.0:1
CLASSROOM 106 EXTERIOR	+	0.8 fc	1.8 fc	0.2 fc	9.0:1	4.0:1
COMMON AREA 102	+	1.8 fc	6.0 fc	0.2 fc	30.0:1	9.0:1
COMMON AREA 102 EXTERIOR	+	0.8 fc	1.9 fc	0.1 fc	19.0:1	8.0:1
ENTRY 101	+	5.6 fc	8.1 fc	3.0 fc	2.7:1	1.9:1
ENTRY 101 EXTERIOR	+	0.7 fc	1.7 fc	0.1 fc	17.0:1	7.0:1
OFFICE 103	+	0.4 fc	0.4 fc	0.3 fc	1.3:1	1.3:1
REGROUP 104	+	2.5 fc	6.4 fc	0.3 fc	21.3:1	8.3:1
SERVING 108	+	3.8 fc	6.0 fc	1.3 fc	4.6:1	2.9:1
CLASSROOM 105	+	0.6 fc	1.5 fc	0.1 fc	15.0:1	6.0:1



N  
FLOOR PLAN - EMERGENCY PHOTOMETRICS  
SCALE: 1/4" = 1'-0"



## REVIEW

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## Classic Engineering, LLC

100 Cesar E Chavez Ave SW  
Grand Rapids, Michigan 49503  
(616) 742-2810  
[www.classicengineering.com](http://www.classicengineering.com)  
Proj. #2026020

LIGHI HOUSE NORIH  
151 S MAIN

---

616 677 5997 OFFICE  
616 813 2452 MOBILE  
RMD@RMDArchitects.net  
744 MARNE ESTATES DR.  
LLMADGE TOWNSHIP, MI 49435

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**PROJECT #**

SHEET NUMBER  
**FP-1**

SHEET NAME  
**FLOOR PLAN**

### AUTOMATIC RECEPTACLE CONTROL NOT

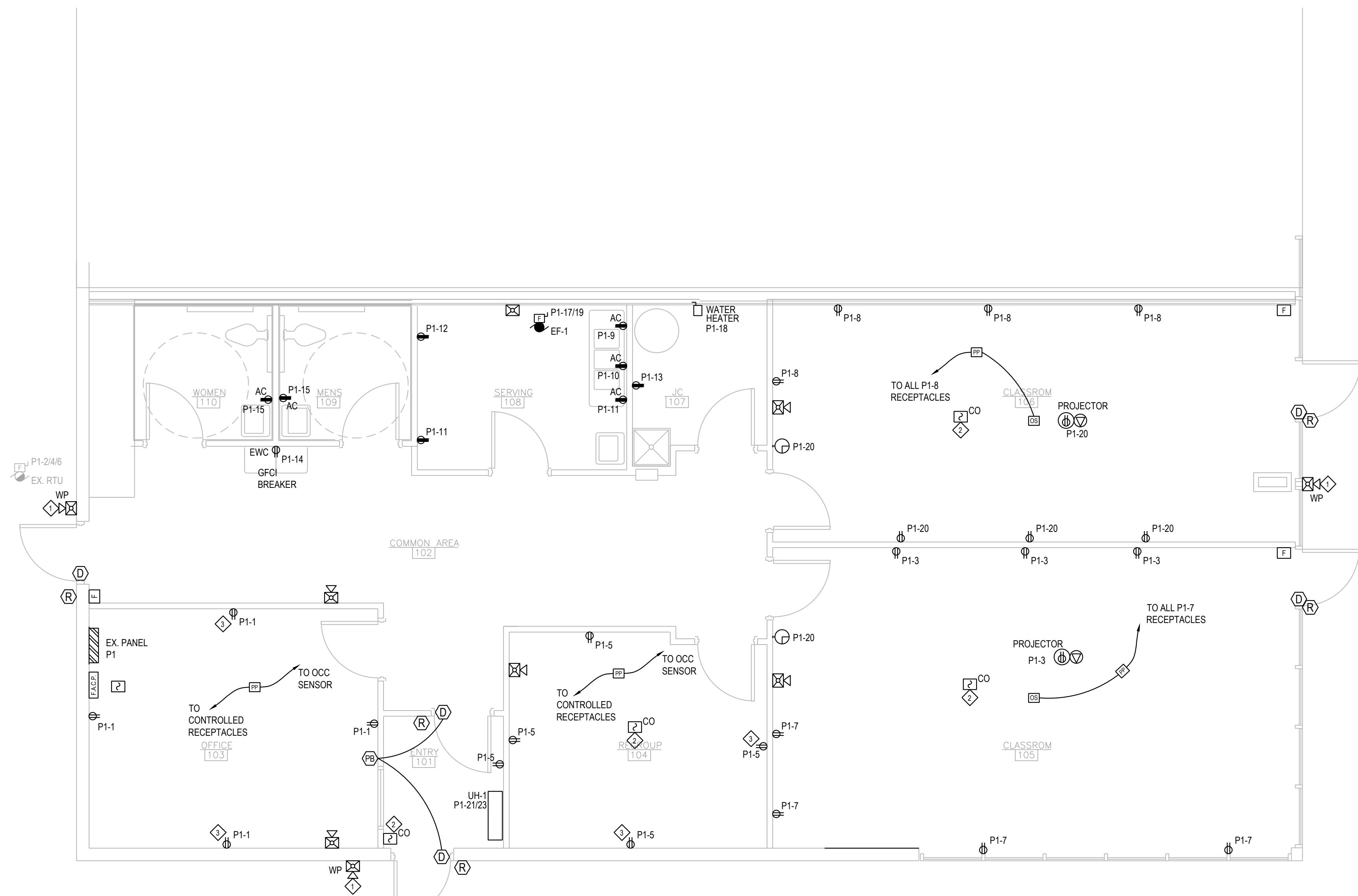
1. AUTOMATIC RECEPTACLE CONTROL SYSTEM SHALL MEET 2021 ENERGY CODE.
2. AT LEAST 50% OF ALL 125V, 15 AND 20 AMP RECEPTACLES IN: PRIVATE OFFICES, OPEN OFFICES, CONFERENCE ROOMS, BREAK ROOMS, CLASSROOMS, COPY/PRINT ROOMS. CONTROLLED RECEPTACLES SHALL BE CLEARLY IDENTIFIED WITH PERMANENT MARKINGS (E.G., ENGRAVED FACEPLATES OR COLOR RECEPTACLES).
3. CONTROLLED RECEPTACLES SHALL BE TURNED OFF BY AT LEAST ONE OF THE FOLLOWING METHODS:
  - 3.1. OCCUPANCY SENSOR THAT TURNS OFF RECEPTACLES WITHIN 20 MINUTES AFTER THE SPACE IS UNOCCUPIED. IN COMBINATION WITH LIGHTS
  - 3.2. TIME-OF-DAY SCHEDULING VIA BUILDING AUTOMATION SYSTEM (BAS) OR PROGRAMMABLE TIMER, WITH MANUAL OVERRIDE CAPABILITY.
  - 3.3. SIGNAL FROM ANOTHER AUTOMATED SYSTEM THAT PROVIDES EQUIVALENT SHUT OFF FUNCTIONALITY; SUCH AS SENSOR CONTROLLING LIGHTS.
4. EXCEPTIONS:
  - 4.1. RECEPTACLES FOR EQUIPMENT REQUIRING CONTINUOUS OPERATION, SUCH AS SERVERS, REFRIGERATORS AND FREEZERS.
  - 4.2. RECEPTACLES CONNECTED TO LIFE SAFETY OR EMERGENCY SYSTEMS.
  - 4.3. DEDICATED RECEPTACLES FOR CRITICAL EQUIPMENT SUCH AS MEDICAL DEVICES.

## POWER KEYNOTES

- ① WEATHERPROOF HORN STROBE TO BE LOCATED ON EXTERIOR OF BUILDING AT 8'-0" AT FIRE SUPPRESSION CONNECTION, STROBE TO ACTIVATED BY FIRE PROTECTION FLOW SWITCHES.
- ② CARBON MONOXIDE ALARM SIGNALS SHALL BE AUTOMATICALLY TRANSMITTED TO AN ON-SITE LOCATION THAT IS STAFFED BY SCHOOL PERSONNEL.
- ③ CONTROLLED RECEPTACLE VIA OCCUPANCY SENSOR.

## GENERAL POWER NOTE

1. ALL 15A & 20A 120V NON-LOCKING RECEPTACLES WITH PUBLIC SPACES WHERE CHILDREN CAN BE FOUND SHALL BE LISTED TAMPER RESISTANT PER NEC 406.12. THIS INCLUDES SCHOOLS, HOTELS, CLINICS, OUTPATIENT FACILITIES, PLACES OF WAITING AND ALL COMMON USE AREAS (CORRIDORS, GYM, MUSIC ETC.).
2. MOUNT PANELS, TRANSFORMERS, DISCONNECT SWITCHES, AND COMBINATION MOTOR STARTERS WITH ADEQUATE CLEARANCES IN ACCORDANCE WITH NEC 110.
3. VERIFY ALL EQUIPMENT REQUIREMENTS, CONNECTION TYPES, AND LOCATIONS WITH EQUIPMENT SUPPLIER AND NAMEPLATES PRIOR TO ROUGH-IN.
4. FIRE ALARM, SECURITY AND ACCESS CONTROL DEVICES SHOWN FOR REFERENCE ONLY AND DO NOT REPRESENT COMPREHENSIVE SYSTEMS.
5. ELECTRIC METER IS LOCATED ON THE NORTH SIDE OF THE BUILDING. CONTACT ENGINEER IF EXACT LOCATION IS REQUIRED.
6. PROVIDE RECEPTACLES WITH STAINLESS STEEL COVER PLATE.



**N**



**FLOOR PLAN - POWER**

SCALE - 1/4" = 11'-0"

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

THIS IS 6" LONG