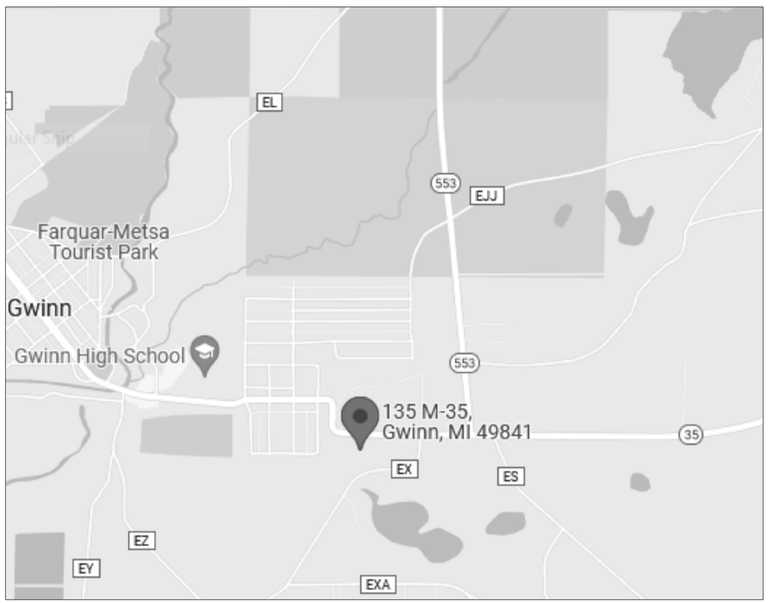
UPPER GREAT LAKES FAMILY HEALTH CENTER

GWINN MICHIGAN

GWINN CLINIC BASEMENT REMODEL

BASE BID AND ALTERNATE #1
MAY 9, 2022



Sealed for the UGLFHC
Gwinn Clinic Basement
Remodel Project only
May 9, 2022

STATE OF MICHIGAN
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5/9/2022
Project #7A(3)-22-0030

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5/9/2022

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ARCHITECT

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MEP ENGINEER

GENERAL CONDITIONS:

1.1 ALL WORK SHALL BE ERECTED PLUMB, LEVEL AND AT ACCURATE RIGHT ANGLES WITH ADJOINING MATERIALS IN ACCORDANCE WITH BEST PRACTICES OF EACH TRADE.

1.2 WORK PERFORMED SHALL CONFORM WITH APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION AND INCLUDES THE CITY OF GWINN BUILDING AND FIRE CODES.

1.3 ALL CONTRACTORS SHALL VISIT THE PREMISES BEFORE SUBMITTING A PROPOSAL TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK.

1.4 THE SUBMISSION OF A PROPOSAL WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT AND/OR MATERIAL REQUIRED FOR DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.

1.5 WHERE THE TERM "APPROVED EQUAL" OR "EQUAL" IS USED, IT SHALL MEAN ACTIONS, OPINIONS OR INTERPRETATIONS BY THE ARCHITECT.

1.6 CHECK CONTRACT DOCUMENTS AND VERIFY FIELD CONDITIONS FOR ACCURACY, TO CONFIRM THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY CLARIFICATION OF THE CONTRACT DOCUMENTS FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

1.7 EACH AND EVERY MISCELLANEOUS ITEM OF CUTTING, PATCHING OR FITTING IS NOT NECESSARILY DESCRIBED HEREIN. NO SPECIFIC DESCRIPTION OF CUTTING, PATCHING OR FITTING REQUIRED TO MEET THE SCOPE OF WORK SHALL RELIEVE THE CONTRACTOR FROM RESPONSIBILITY TO PERFORM ALL SUCH WORK.

1.8 COOPERATE AND COORDINATE JOB OPERATIONS WITH OTHER CONTRACTORS ADJACENT WORK IN ORDER TO PREVENT DELAY AND CONFLICT, OR DAMAGES TO BOTH PARTIES OPERATIONS.

1.9 CONFORM TO THE BASE BUILDING SPECIFICATIONS REQUIREMENTS FOR MODIFICATION WORK. INSTALL ALL MANUFACTURED ITEMS, MATERIALS AND EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS, EXCEPT CONFORM TO ANY MORE STRINGENT BASE BUILDING SPECIFICATION.

1.10 VERIFY ALL SPACE DIMENSIONS SHOWN WITH EXISTING JOB CONDITIONS BEFORE STARTING CONSTRUCTION.

1.11 GYPSUM BOARD WORK SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE GYPSUM ASSOCIATION.

1.12 "TYPICAL" MEANS TYPICAL FOR ALL SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.

1.13 DETAILS ARE USUALLY KEYED ONLY ONCE ON THE PLANS OR ELEVATIONS, AND ARE TYPICAL FOR SIMILAR CONDITIONS THROUGHOUT UNLESS OTHERWISE NOTED.

1.14 "ALIGN" MEANS SIMILAR COMPONENTS OF CONSTRUCTION, SUCH AS WALLS, JAMBS, ETC., SHALL ALIGN ACROSS ADJACENT SPACES.

1.15 DIMENSIONS TO ENDS OF WALLS ARE TO FACE OF GYPSUM BOARD.

1.16 ALL CONTRACTORS SHALL CHECK BUILDING OPENING CLEARANCES FOR DELIVERY OF EQUIPMENT AND/OR MATERIALS SUCH AS, SIZE OF ELEVATORS, CORRIDORS, ETC.

1.17 ALL CONTRACTORS SHALL ARRANGE FOR ELEVATOR OR OTHER HOISTING FACILITIES FOR THEIR MATERIALS.

1.18 ALL CONTRACTORS SHALL FURNISH BUILDING OWNER'S REPRESENTATIVE WITH FIELD PROGRESS SCHEDULES FOR ALL PHASES OF WORK.

1.19 DO NOT SCALE DRAWINGS. ALL DIMENSIONS INDICATED GOVERN. LARGER SCALE DETAILS GOVERN SMALLER SCALE DRAWINGS.

1.20 THE BASE BUILDING SPECIFICATIONS ARE HEREBY MADE A PART OF THESE CONTRACT DOCUMENTS FOR BASE BUILDING CONSTRUCTION AFFECTED BY THIS WORK.

PARTITIONS:

2.1 WHERE A WALL IS SHOWN ALIGNED WITH MORE THAN ONE COLUMN OR CORE WALL, THE CONTRACTOR SHALL ALIGN THE WALL WITH THE FURTHEST PROJECTION AND ALL OTHER WALLS OR SURFACES ALONG THE ALIGNMENT SHALL BE FURRED TO THIS LINE.

2.2 WALLS SHOWN ALIGNED WITH BASE BUILDING CONSTRUCTION SHALL BE FINISHED FLUSH AND SMOOTH WITH THIS CONSTRUCTION, UNLESS OTHERWISE INDICATED.

2.3 ALL DOOR CENTERLINES SHALL BE SET 2'0" FROM THE INSIDE FACE OF ADJACENT WALL, UNLESS OTHERWISE DIMENSIONED OR INDICATED ON DETAILS.

2.4 WHERE RECESSED PANEL BOXES ARE LOCATED, THEY ARE TO BE RECESSED FLUSH WITH THE FINISHED FACE OF PARTITION.

2.5 ALL GYPSUM BOARD RETURNS AND/OR EXPOSED EDGES SHALL HAVE METAL TRIM FLOOR TO CEILING. ALL GYPSUM BOARD JOINTS BELOW THE CEILING SHALL BE TAPED AND FLOATED. ALL JOINTS ABOVE THE CEILING SHALL BE TAPED ONLY.

2.6 PROVIDE BRACING FOR ABOVE CEILING HEIGHT PARTITIONS WHERE LONG UNBRACED WALL LENGTHS OCCUR. PROVIDE BRACING ABOVE CEILING AT ALL DOOR AND GLAZED OPENING JAMBS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

2.7 PARTITIONS EXTENDED TO STRUCTURE SHALL BE CONTINUOUS OVER DOORS AND MATCH ADJACENT WALL CONSTRUCTION.

2.8 WHERE DEMISING PARTITIONS EXTENDED ABOVE THE CEILING ARE AT RIGHT ANGLES TO THE RIBS OF THE STRUCTURAL DECK, THOROUGHLY PACK ALL VOIDS WITH FIBERGLASS INSULATION TO CLOSE OPENING.

2.9 PENETRATIONS THRU DEMISING PARTITIONS ABOVE FINISHED CEILING SHALL BE SEALED TO PREVENT SOUND LEAKAGE.

DOORS, HARDWARE:

3.1 ALL DOORS AND FRAMES SHALL BE BUILDING STANDARD UNLESS OTHERWISE NOTED IN THE DRAWINGS.

3.2 ALL DOORS AND FRAMES SHALL BE PROPERLY ALIGNED AND LEVELED WITH ADJACENT SURFACES.

3.3 ALL LOCKS WILL BE KEYED IN ACCORDANCE WITH OWNERS SCHEDULE.

PAINTING:

4.1 UNLESS OTHERWISE SPECIFIED, ALL AREAS ARE TO BE PRIMED AND PAINTED IN ACCORDANCE WITH FINISH SCHEDULES.

4.2 CONTRACTOR SHALL USE PRIMER COLORS AS CALLED FOR BY PAINT MANUFACTURER.

4.3 ALL WALLS SHALL BE THOROUGHLY DRY BEFORE PAINTING.

4.4 ALL DRY WALL PARTITIONS SHALL RECEIVE ONE PRIME COAT AND TWO FINISH COATS OF PAINT.

MILLWORK:

5.1 ALL WOODWORK, BLOCKING, GROUNDS, ROUGH BUCKS AND SHIMS INSTALLED BY MILLWORK CONTRACTOR TO BE FIRE RETARDANT TREATED IN ACCORDANCE WITH APPLICABLE CODES.

5.2 PREPARE SHOP DRAWINGS FOR ALL SPECIAL MILLWORK DIMENSIONED PLANS AND ELEVATIONS, HARDWARE DETAILS AND AND SPECIFICATIONS. SUBMIT TO ARCHITECT FOR REVIEW.

5.3 SEAL ALL WOOD SURFACES, NOT SCHEDULED TO RECEIVE PAINT OR PLASTIC LAMINATE, TO PREVENT MOISTURE PENETRATION.

5.4 PAINT ALL ABOVE BUILDING STANDARD INTERIOR CABINET SURFACES, NOT SCHEDULED FOR PLASTIC LAMINATE, TO MATCH SPECIFIED CABINET EXTERIOR PLASTIC LAMINATE.

5.5 ALL EXTERIOR CABINET SURFACES TO BE SCHEDULED PLASTIC LAMINATE UNLESS OTHERWISE NOTED.

5.6 ALL EXPOSED PLYWOOD EDGES TO BE HARDWOOD BANDED.

5.7 ALL CABINET DOORS, COUNTERTOPS, DRAWER FRONTS, AND BOTTOMS TO BE 3/4" PLYWOOD UNLESS OTHERWISE SPECIFIED.

5.8 ALL DRAWER PULLS AND ALL DOOR PULLS TO BE MOUNTED HORIZONTALLY.

5.9 INSTALL 4" SCHEDULED BASE ON ALL CABINET WORK WITH RECESSED TOE SPACE UNLESS OTHERWISE SPECIFIED.

5.10 WHERE ELECTRICAL WORK IS SPECIFIED, LIGHT FIXTURES AND LAMPS ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CUTOUTS FOR SWITCHES, OUTLETS AND WIRING DEVICES REQUIRED IN CABINETS ARE BY THE MILLWORK CONTRACTOR AND TO BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.

ACCESSORIES:

A-1 SURFACE MOUNTED ROBE HOOK.
BOBRICK B-6727, STAINLESS STEEL,SATIN FINISH.

A-2 SURFACE MOUNTED ANGLE FRAMED MIRROR 24"x36"
BOBRICK B290, STAINLESS STEEL, SATIN FINISH

* SURFACE MOUNTED TOILET PAPER DISPENSER
BY OWNER

* SURFACE MOUNTED PAPER TOWEL DISPENSER.
BY OWNER

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GWINN, MI 49841

ARCHITECT
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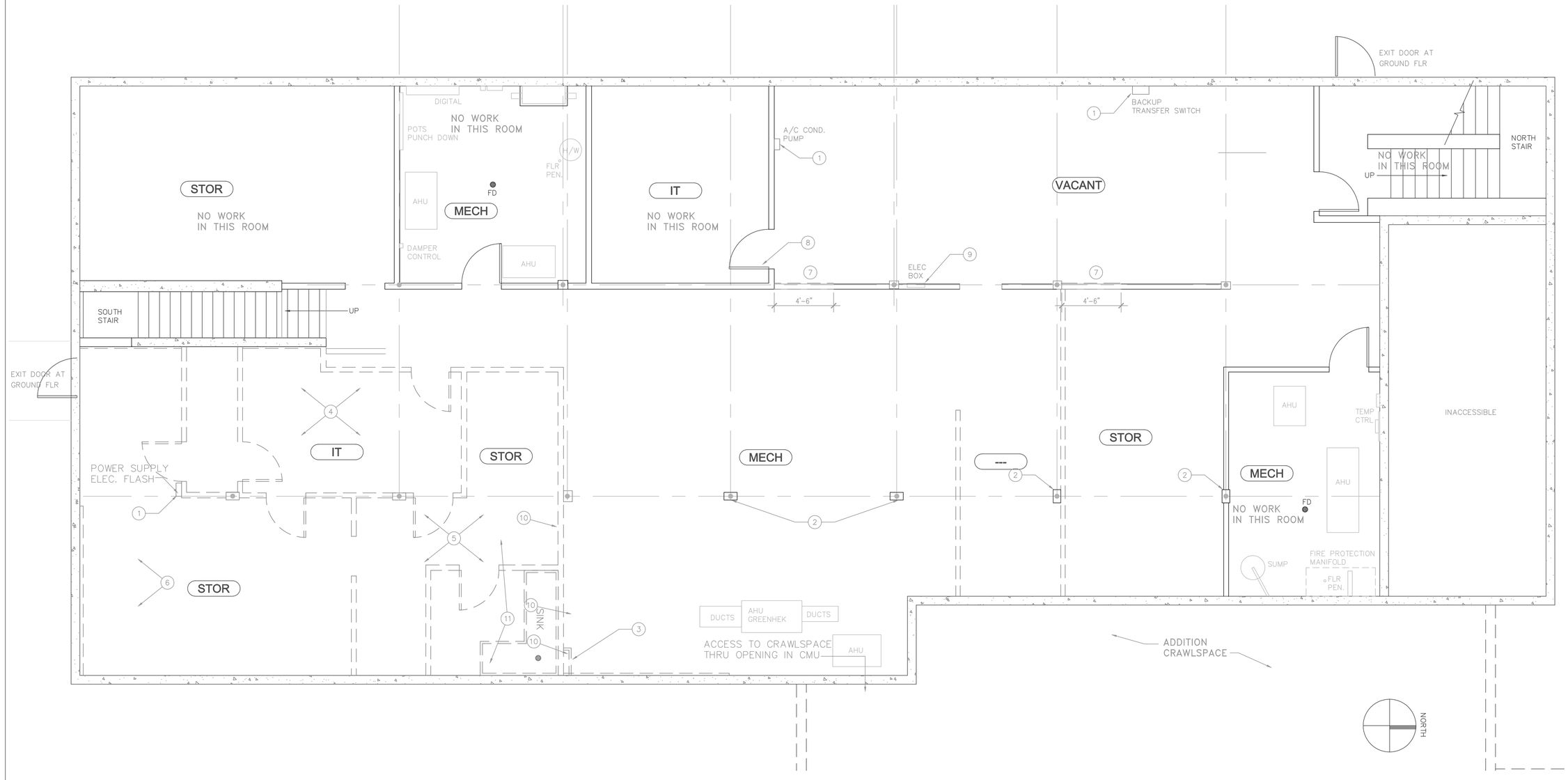
906-360-1757

SEAL

GENERAL NOTES

SCALE: NONE
DATE: 05/09/2022

DRAWING:
G-000



DEMOLITION LEGEND

- DOOR & FRAME TO BE DEMOLISHED UNLESS NOTED OTHERWISE
- DOOR,FRAME & WALL TO BE DEMOLISHED
- DASHED ITEMS TO BE DEMOLISHED

NOTES TO SHEET

1. RELOCATE EQUIPMENT. SEE MEP DRAWINGS.
2. LEAVE EXISTING GYP. BOARD COLUMN COVER.
3. REMOVE EXISTING PIPE ENCLOSURE. SEE PLUMBING DRAWINGS FOR REPIPING.
4. REMOVE ACOUSTICAL CEILING SYSTEM AND LIGHT FIXTURES, TAKING CARE TO PROTECT ANY DUCTS, PIPES AND CABELING.
5. REMOVE GYP. BOARD CEILINGS, TAKING CARE TO PROTECT ANY DUCTS, PIPES AND CABELING.
6. CEILING HUNG "TRACK LIGHTS" TO BE REMOVED.
7. REMOVE EXISTING WALL FOR NEW OPENING.
8. REMOVE EXISTING DOOR, SALVAGE HARDWARE AND LEAVE FRAME.
9. EXISTING ELECTRICAL PANEL TO REMAIN.
10 CUT EXISTING CONCRETE FLOOR FOR NEW WASTE LINES. CO-ORDINATE WITH PLUMBER.
11. PATCH EXISTING CONCRETE WHERE CUT FOR NEW PLUMBING DRAIN LINE.

GENERAL NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO BEGINNING WORK.

B. CONTRACTOR TO PROTECT ALL FIXED EQUIPMENT, DUCTS, PIPES AND CABELING DURING DEMOLITION.

C. WHERE EQUIPMENT OR FURRING MATERIAL IS REMOVED FROM CMU WALLS, PATCH ANY HOLES AND PREPARE SURFACE FOR NEW MATERIALS.

D. EQUIPMENT AND FIXTURES THAT ARE REMOVED AND NOT TO BE REINSTALLED ELSEWHERE SHALL BE DISPOSED OF ACCORDING TO OWNERS' DIRECTION.

E. REMOVE ALL INSTALLED FLOORING MATERIALS AND PREPARE CONCRETE TO RECEIVE NEW FLOORING.

F. ALL EXISTING DUCTWORK SERVICING THE BASEMENT IS TO BE REMOVED.

G. ALL EXISTING LIGHTS AND GENERAL OUTLETS SERVICING THE AREA OF WORK SHALL BE REMOVED BY THE ELECTRICIAN.

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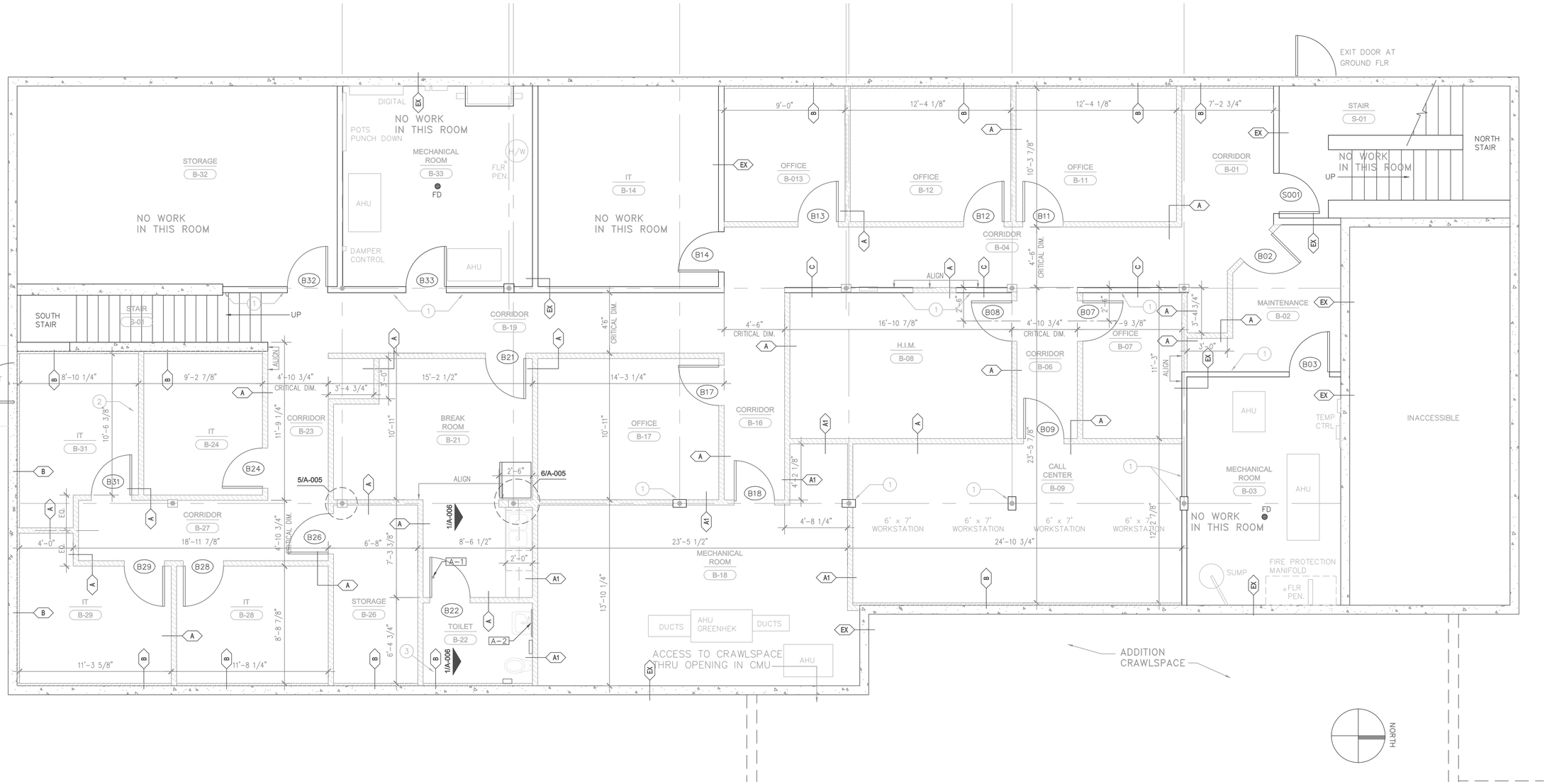
SEAL

DEMOLITION FLOOR PLAN

SCALE: 1/4"= 1'-0"
DATE: 05/09/2022

DRAWING: AD-001

DEMOLITION FLOOR PLAN | 1



ARCHITECTURAL LEGEND

- DRAWING REFERENCES: SHEET NUMBER / DETAIL NUMBER (2/A-001)
- SECTION FLAG WITH DRAWING REFERENCE (2/A-001)
- ELEVATION FLAG WITH DRAWING REFERENCE (3/A-001)
- DETAIL REFERENCE (2/A-001)
- ENLARGED PLAN REFERENCE DRAWING REFERENCE (6/A-001)
- DOOR TYPE (B01)
- PARTITION TYPE KEY (A)
- PLAN NOTE REFERENCE (27)
- ACCESSORY NUMBER (A-1)
- NEW PARTITION
- EXISTING PARTITION
- DOOR
- DIMENSION TO FINISHED FACE (DIMENSION)
- ALIGN INDICATED FINISHED SURFACES (ALIGN)
- REVISION. ONLY LATEST REVISION IS CLOUDED – REFERENCE REVISION COLUMN AT TITLE BLOCK

NOTES TO SHEET

1. FINISH EXISTING GYP. BOARD.
2. PROVIDE FURR OUT AT NEW VERTICAL PIPE SIMIALR TO 5/A-005.
3. NEW FLOOR CLEANOUT. REFER TO PLUMBING PLANS.

GENERAL NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO BEGINNING WORK.

B. DIMENSIONS ARE TO FINISH FACE, UNLESS OTHERWISE NOTED.

C. FLOORING CONTRACTOR TO PREPARE EXISTING FLOOR SLAB AS NECESSARY FOR NEW FLOORING.

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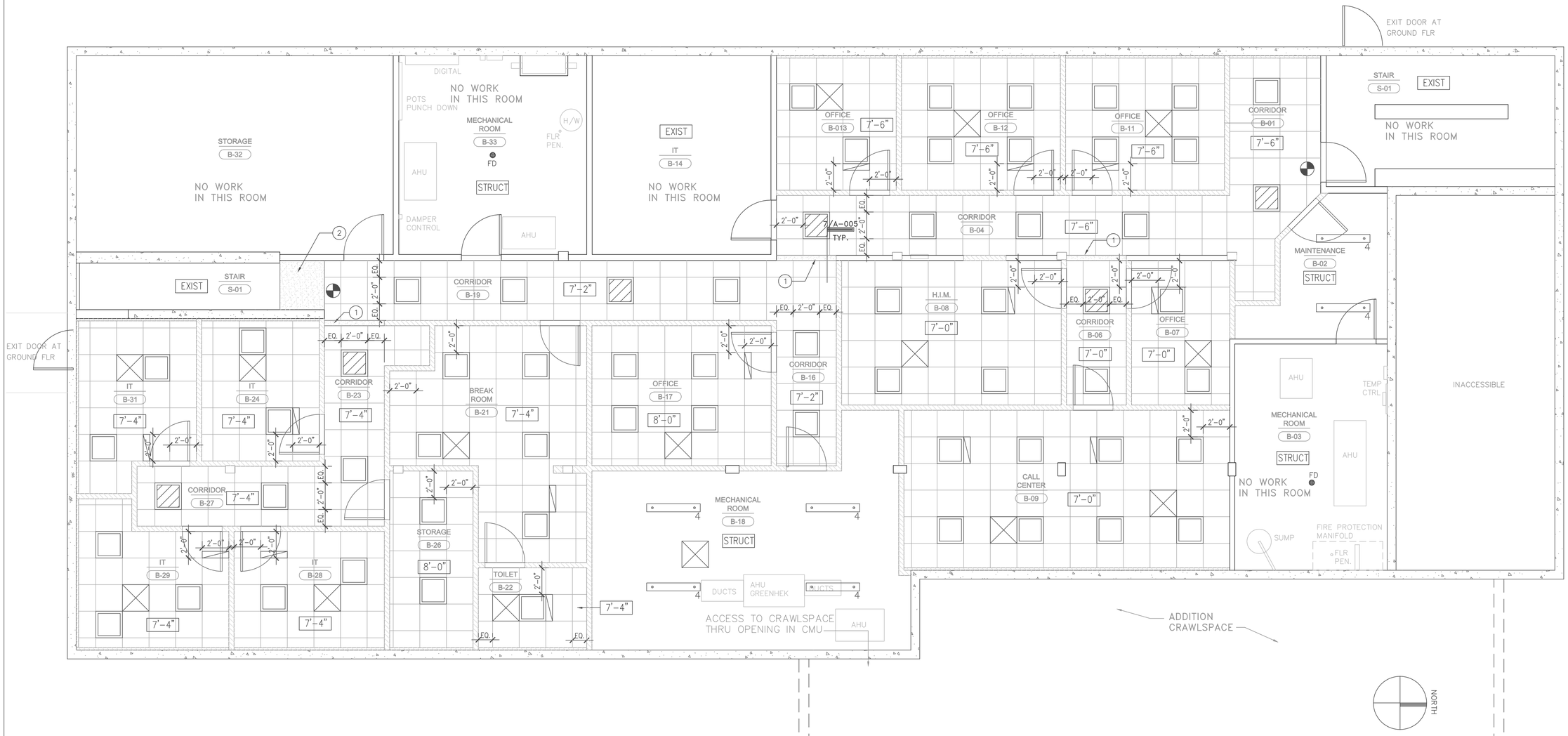
SEAL

ARCHITECTURAL FLOOR PLAN

SCALE: 1/4"= 1'-0"
DATE: 05/09/2022

DRAWING:

ARCHITECTURAL FLOOR PLAN | 1 | A–001



RCP LEGEND

- SPRINKLER HEAD
- RECESSED DOWNLIGHT
- EXIT LIGHT CEILING MOUNTED
- 2'0" X 2'0" FLUORESCENT
- 2'0" X 2'0" EMERGENCY
- 4'0" SUSPENDED FLUORESCENT STRIP
- SMOKE DETECTOR
- FLASHING FIRE ALARM
- AIR SUPPLY REGISTER
- RETURN AIR GRILLE
- SLOT DIFFUSER
- EGGCRATE LENS

NOTES TO SHEET

1. GYP. BOARD SOFFIT. REFER TO DETAILS AND ELEVATIONS.
2. FINISH EXISTING GYP. BOARD CEILING.

GENERAL NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO BEGINNING WORK.

B. CONTRACTOR TO PROTECT ALL FIXED EQUIPMENT, DUCTS, PIPES AND CABELING DURING DEMOLITION.

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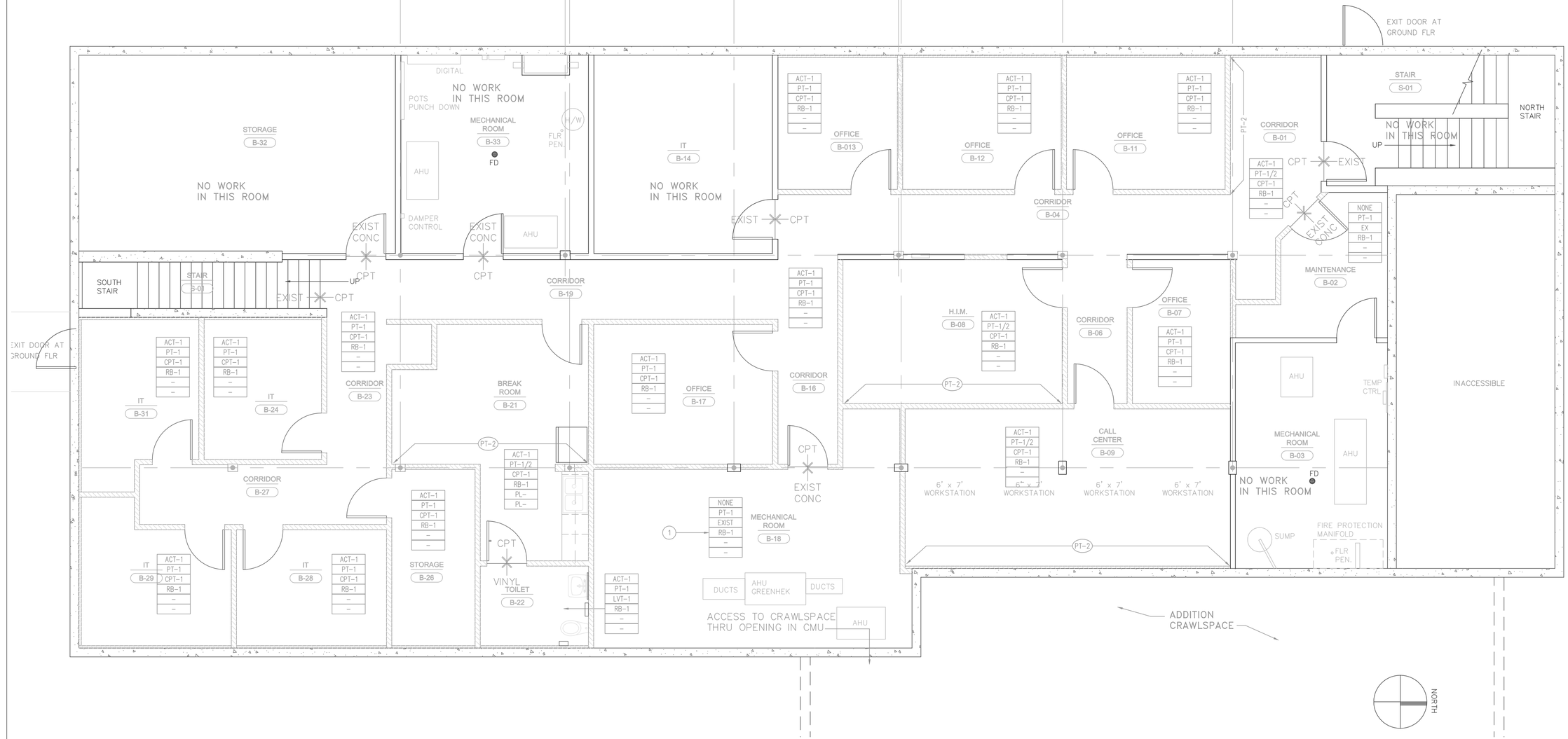
SEAL

REFLECTED CEILING PLAN

SCALE: 1/4"= 1'–0"
DATE: 05/09/2022

DRAWING:

REFLECTED CEILING PLAN | 1 | A–002



FINISH LEGEND

ACT-1	CEILING FINISH
PT-1	WALL FINISH
LVT-1	FLOOR FINISH
RB-1	BASE FINISH
PL-1	HORIZONTAL MILLWORK
PL-2	VERTICAL MILLWORK

ACT-1 / PT-1/2 / LVT-1 / RB-1 / PL-1 / PL-2 — WHERE TWO PAINTS ARE SPECIFIED, EXTENTS ARE MARKED AS: PT-2

CPT / EXIST — INDICATES CHANGE OF FLOOR FINISH

NOTES TO SHEET

1. RUBBER BASE TO BE INSTALLED ON GYP. BOARD WALLS ONLY.

GENERAL NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO BEGINNING WORK.

B. DIMENSIONS ARE TO FINISH FACE, UNLESS OTHERWISE NOTED.

C. REFER TO A-004 FOR FINISH SPECIFICATIONS.

D. ALLGYP. BOARD SOFFITS TO BE PAINTED CEILING WHITE.

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FINISH FLOOR PLAN

SCALE: 1/4"= 1'-0"
DATE: 05/09/2022

DRAWING:

ROOM FINISH SCHEDULE

ROOM	FLOOR			WALLS			CEILING				REMARKS
	EXISTING	CARPET	VINYL	EXISTING	PAINT PT-1		EXISTING	ACOUSTICAL CEILING TILE	5/8" GYP. BD. (PAINTED)	OPEN TO STRUCTURE	
S01 NORTH STAIR	●			●			●				NO WORK THIS ROOM
B01 CORRIDOR		●			●			●			
B02 MAINTENANCE		●			●					●	
B03 MECHANICAL	●			●						●	
B04 CORRIDOR		●			●			●			
B06 CORRIDOR		●			●			●			
B07 OFFICE		●			●			●			
B08 H.I.M.		●			●			●			
B09 CALL CENTER		●			●			●			
B11 OFFICE		●			●			●			
B12 OFFICE		●			●			●			
B13 OFFICE		●			●			●			
B14 IT	●			●			●				NO WORK THIS ROOM
B16 CORRIDOR		●			●			●			
B17 OFFICE		●			●						
B18 MECHANICAL	●			●						●	NO WORK THIS ROOM
B19 CORRIDOR		●			●			●			
B21 BREAK ROOM		●			●			●			
B22 TOILET			●		●			●			
B23 CORRIDOR		●			●			●			
B24 IT		●			●			●			
B27 STORAGE		●			●			●			
B27 CORRIDOR		●			●			●			
B28 IT		●			●			●			
B29 IT		●			●			●			
B31 IT		●			●			●			
B32 STORAGE	●			●			●				NO WORK THIS ROOM
B33 MECHANICAL	●			●						●	
S02 SOUTH STAIR	●			●			●				

CARPET

CPT-1	MFR:	INTERFACE CARPET PLANKS
	MFR NO.:	104463
	PATTERN:	WHOLE EARTH
	COLOR:	WE 154 STORM

LVT

LVT-1	MFR:	SHAW
	PATTERN:	UNCOMMON
	COLOR:	GROUND 6
	NUMBER:	X
	SIZE:	X

RUBBER BASE

RB-1	MFR:	JOHNSONITE
	COLOR:	CHARCOAL 20
	HEIGHT:	4" COVED

CEILING SYSTEM

ACT-1	MFR:	ARMSTRONG
	NUMBER:	1713
	PATTERN:	SCHOOL ZONE
	SIZE:	24" x 24" x 5/8"
	GRID:	15/16" EXPOSED
	COLOR:	USG DX-24 WHITE

PAINT

PT-1 WALLS	MFR:	SHERWIN WILLIAMS
	PRODUCT:	PROMAR 200
	COLOR:	BUILDING STANDARD
	FINISH:	EGGSHELL SEMI-GLOSS
PT-2 ACCENT	MFR:	SHERWIN WILLIAMS
	PRODUCT:	PROMAR 200
	COLOR:	TBD
	FINISH:	EGGSHELL SEMI-GLOSS
PT-3 HM	MFR:	X
	PRODUCT:	FOR HOLLOW METAL FRAMES
	COLOR:	MATCH WALL BASE
	FINISH:	SATIN ENAMEL
PT-4 CEILING	MFR:	X
	COLOR:	CEILING WHITE
	FINISH:	EGGSHELL

PLASTIC LAMINATE

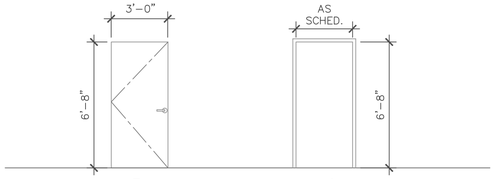
PL-1 HORIZ.	MFR:	MATCH EXISTING CLINIC
	MFR NO.:	X
	COLOR:	X
PL-2 VERT.	MFR:	MATCH EXISITNG CLINIC
	MFR NO.:	X
	COLOR:	X

DOOR SCHEDULE

MARK (X)	ROOM NAME	ROOM NO.	DOOR						FRAME		DETAIL	HDWR	REMARKS
			WIDTH	HEIGHT	THK.	TYPE	MTL.	LABEL	MTL.	TYPE	A-005/		
S01	NORTH STAIR	S-01	EX	EX	EX	EX	EX		EX	EX	–	EX	
–	CORRIDOR	B-01	–	–	–	–	–		–	–	–	–	
B02	MAINTENANCE	B-02	3'-0"	6'-8"	1 3/4"	F	SC		HM	A	2,3,4	1	
B03	MECHANICAL	B-03	EX	EX	EX	EX	EX	1 HOUR	EX	EX	2,3,4	1	
–	CORRIDOR	B-04	–	–	–	–	–		–	–	–	–	
–	CORRIDOR	B-06	–	–	–	–	–		–	–	–	–	
B07	OFFICE	B-07	3'-0"	6'-8"	1 3/4"	F	SC		HM	A	2,3,4	1	
B08	H.I.M.	B-08	3'-0"	6'-8"	1 3/4"	F	SC		HM	A	2,3,4	1	
B09	CALL CENTER	B-09	3'-0"	6'-8"	1 3/4"	F	SC		HM	A	2,3,4	1	
B11	OFFICE	B-11	3'-0"	6'-8"	1 3/4"	F	SC		HM	A	2,3,4	1	
B12	OFFICE	B-12	3'-0"	6'-8"	1 3/4"	F	SC		HM	A	2,3,4	1	
B13	OFFICE	B-13	3'-0"	6'-8"	1 3/4"	F	SC		HM	A	2,3,4	1	
B14	IT	B-14	3'-0"	6'-8"	1 3/4"	F	SC		EX	EX	–	EX	NEW WOOD DOOR RE-USE HARDWARE
–	CORRIDOR	B-16	–	–	–	–	–		–	–	–	–	
B17	OFFICE	B-17	3'-0"	6'-8"	1 3/4"	F	SC		HM	A	2,3,4	1	
B18	MECHANICAL	B-18	3'-0"	6'-8"	1 3/4"	F	SC	1 HOUR	HM	A	2,3,4	2	
–	CORRIDOR	B-19	–	–	–	–	–		–	–	–	–	
B21	BREAK ROOM	B-21	3'-0"	6'-8"	1 3/4"	F	SC		HM	A	2,3,4	1	
B22	TOILET	B-22	3'-0"	6'-8"	1 3/4"	F	SC		HM	A	2,3,4	3	
–	CORRIDOR	B-23	–	–	–	–	–		–	–	–	–	
B24	IT	B-24	3'-0"	6'-8"	1 3/4"	F	SC		HM	A	2,3,4	1	
B26	STORAGE	B-26	3'-0"	6'-8"	1 3/4"	F	SC		HM	A	2,3,4	4	
–	CORRIDOR	B-27	–	–	–	–	–		–	–	–	–	
B28	IT	B-28	3'-0"	6'-8"	1 3/4"	F	SC		HM	A	2,3,4	1	
B29	IT	B-29	3'-0"	6'-8"	1 3/4"	F	SC		HM	A	2,3,4	1	
B31	IT	B-31	3'-0"	6'-8"	1 3/4"	F	SC		HM	A	2,3,4	1	
B32	STORAGE	B-32	3'-0"	6'-8"	1 3/4"	F	SC		EX	EX	–	4	NEW WOOD DOOR; EX. FRAME
B33	MECHANICAL	B-33	EX	EX	EX	EX	EX	1 HOUR	EX	EX	–	EX	
–	SOUTH STAIR	S-02	–	–	–	–	–		–	–	–	–	

DOOR AND HARDWARE NOTES

1. WOOD DOORS ARE TO BE SCLC-5, PLAIN SLICED RED OAK VENEER A GRADE, BOOK AND RUNNING MATCH. PREFINISHED TO MATCH EXISTING CLINIC DOORS. OWNER WILL SELECT CLOSEST MATCH FROM MANUFACTURER'S STANDARD FINISHES.
2. HINGES: 5-KNUCKLE STANDARD WEIGHT.
3. LOCKSETS: CYLINDRICAL TYPE, CORBIN RUSSWIN CL 3500 SERIES TO MATCH EXISTING CLINIC HARDWARE, WITH NEWPORT LEVERS.
4. CLOSER: YALE 2700 SERIES, NON-HOLD OPEN WITH REGULAR ARM.
5. WALL STOPS: ROCKWELL 409.
6. KEYING IS TO MATCH EXISTING IN BUILDING. CO-ORDINATE WITH OWNER.



F DOOR TYPES

A FRAME TYPES

DOOR HARDWARE SETS

1	TYP. WOOD DOOR
	1 1/2 PAIR HINGES LOCKSET: OFFICE FUNCTION 1 EA. WALL STOP
2	MECHANICAL ROOM B-18
	1 1/2 PAIR HINGES LOCKSET: STOREROOM FUNCTION 1 EA. WALL STOP 1 EA. CLOSER
3	TOILET B-22
	1 1/2 PAIR HINGES LOCKSET: PRIVACY FUNCTION 1 EA. WALL STOP 1 EA. CLOSER
4	STORAGE ROOMS B-26 AND B-32
	1 1/2 PAIR HINGES LOCKSET: CLASSROOM FUNCTION 1 EA. WALL STOP 1 EA. CLOSER
5	IT ROOM B-14
	1 1/2 PAIR HINGES RE-USE EXISTING ELECTRONIC LOCK, LOCKSET AND OTHER HARDWARE

GENERAL NOTES

A. CONTRACTOR TO VERIFY ALL DOOR AND FRAME DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION. DOOR DIMENSIONS ARE NOMINAL.

B. ALL INTERIOR SOLID CORE DOORS TO BE RED OAK VENEER, PLANE SLICED.

C. FINISH EDGES OF WOOD DOORS TO MATCH SCHEDULED FINISH FACE.

D. HOLLOW METAL FRAMES SHALL BE PAINTED TO MATCH ADJACENT WALL BASE, SEMI-GLOSS ENAMEL, EXCEPT WHERE NOTED.

E. DOOR SIGNAGE SHALL BE INSTALLED AT 60" A.F.F. TO CENTERLINE OF PLAQUE AND SHALL COMPLY WITH A.D.A. GUIDELINES.

F. ARCHITECT IS RESPONSIBLE FOR VERIFICATION AND LOCATION OF ALL REQUIRED FIRE RATED DOORS.

DOOR/FRAME NOTES

1. ALL HARDWARE TO BE LEVER HANDLE TYPE MEETING A.D.A. REQUIREMENTS.
2. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70° THE DOOR WILL TAKE 3 SECONDS TO MOVE TO A POINT 3" FROM LATCH.
3. CLOSERS SHALL HAVE A MAX. PUSH/PULL FORCE OF 5 LBS.
4. CONTRACTOR SHALL COORDINATE ALL DOORS AND DETAILS FOR PROPER CLEARANCE AND REINFORCEMENT FOR THE HARDWARE INDICATED.
5. CONTRACTOR SHALL INSURE THAT ALL DOOR UNDERCUTS ARE PROPERLY COORDINATED WITH FLOOR FINISHES AND THRESHOLDS PRIOR TO ORDERING DOORS.
6. DOOR FRAMES SHALL HAVE THE FIRE LABEL THAT MATCHES ITS APPROPRIATE DOORS.
7. ALL HOLLOW METAL FRAMES TO BE PAINTED PT-3, COLOR TO MATCH RUBBER BASE.

FINISH NOTES

1. PROVIDE RUBBER REDUCER AT ALL TRANSITIONS FROM CARPET TO VINYL. REDUCER STRIP TO MATCH RUBBER BASE COLOR.
2. ALL AREAS TO RECEIVE RUBBER BASE, RB-1, UNLESS OTHERWISE NOTED.
3. ALL AREAS TO RECEIVE CARPET, CPT-1, UNLESS NOTED OTHERWISE.
4. PROVIDE FACETED TRANSITION WHERE TILE ABUTS CARPET.
5. ALL MATERIAL TRANSITIONS BETWEEN ROOMS TO BE CENTERED DIRECTLY UNDER THE DOOR WHEN THE DOOR IS IN CLOSED POSITION, UNLESS OTHERWISE NOTED.
6. ALL AREAS TO BE PAINTED PT-1 UNLESS OTHERWISE NOTED.

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GWINN, MI 49841

ARCHITECT
JAG
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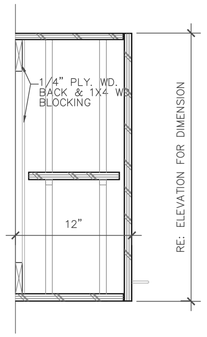
906-360-1757

SEAL

DOOR & FINISH SCHEDULES

SCALE: NONE
DATE: 05/09/2022

DRAWING:
A-004



NOTE:

3/4" PLYWD. CABINET BODY, DOORS & SHELF. P. LAM. CLAD INSIDE/ OUT.

SHELF STANDARDS K.V.# 255 INSTALL FLUSH

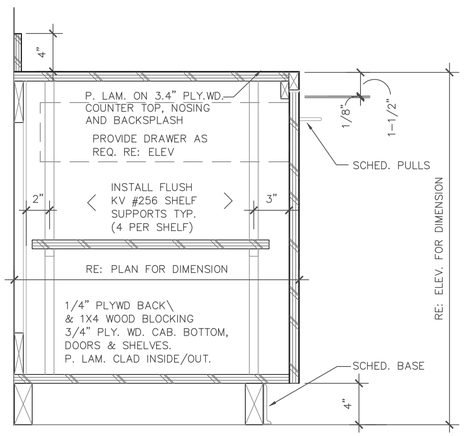
SHELF SUPPORT: K.V. # 256 4 PER SHELF

CONCEALED HINGES AS SPECED.

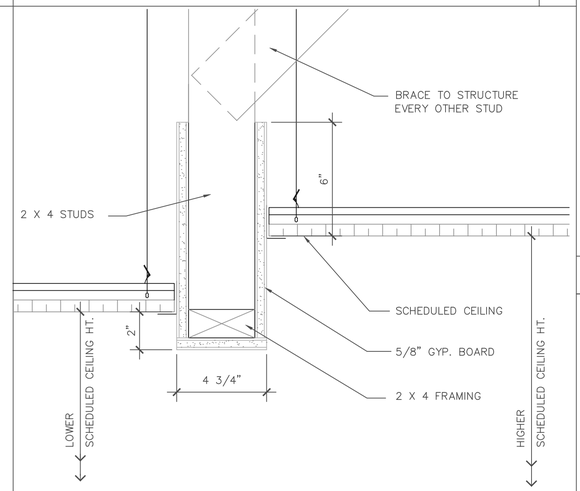
SCHEDULED PULLS

UPPER CABINET SCALE: 1–1/2" = 1'–0" | 11

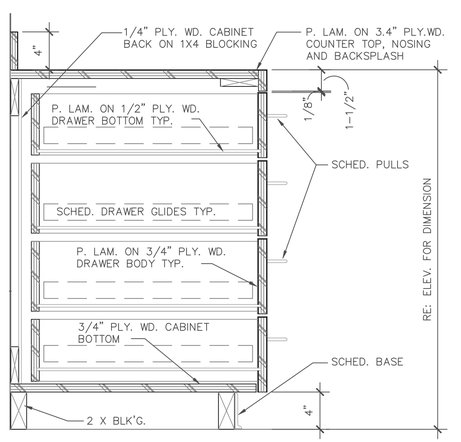
x SCALE: | 8



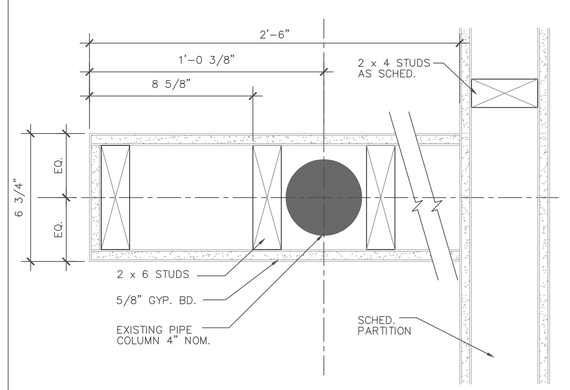
BASE CABINET SCALE: 1–1/2" = 1'–0" | 10



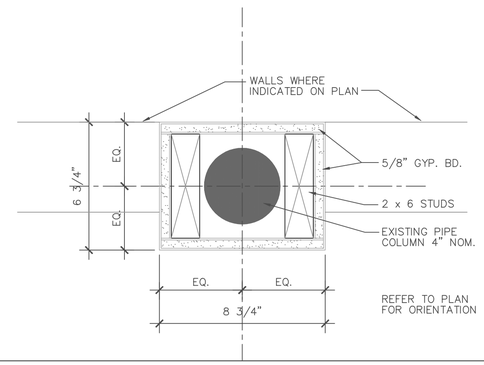
CORRIDOR SOFFIT SCALE: 3" = 1'–0" | 7



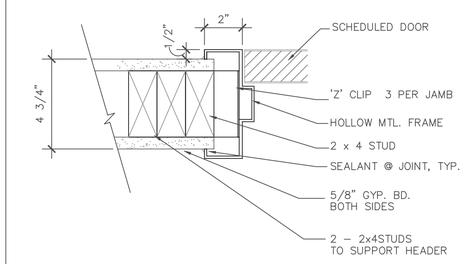
BASE CABINET SCALE: 1–1/2" = 1'–0" | 9



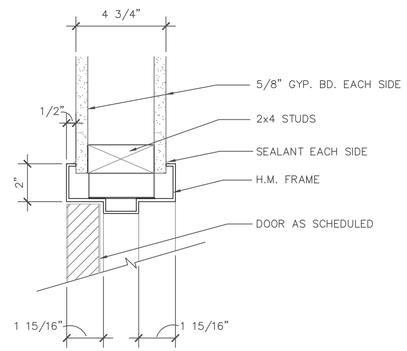
COLUMN @ B–08 SCALE: 3" = 1'–0" | 6



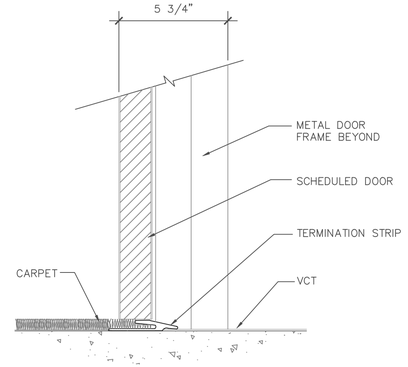
TYP. COLUMN WRAP SCALE: 3" = 1'–0" | 5



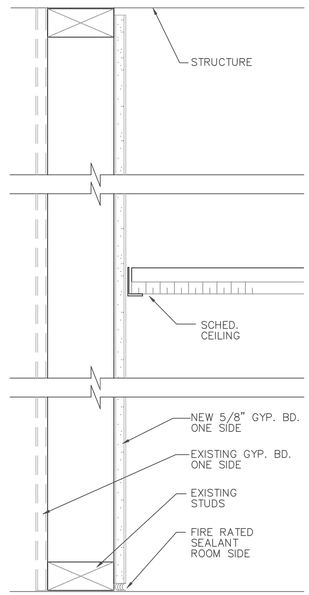
DOOR JAMB SCALE: 3" = 1'–0" | 3



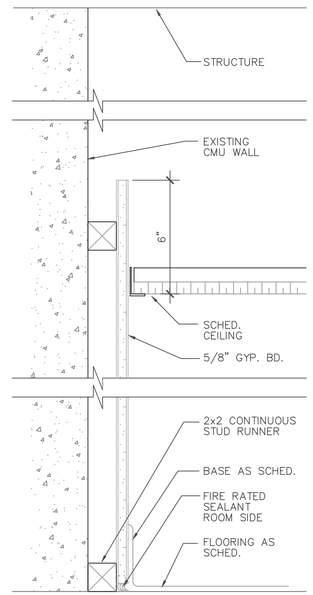
DOOR HEAD SCALE: 3" = 1'–0" | 4



DOOR SILL SCALE: 3" = 1'–0" | 2

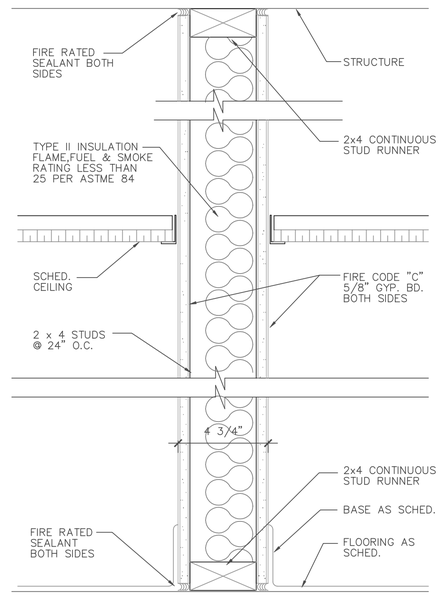


PARTITION TYPE C



PARTITION TYPE B

AT CMU WALLS



PARTITION TYPE A NOT RATED

AT A1 – ONE HOUR FIRE–RATED

PARTITION TYPES SCALE: 3" = 1'–0" | 1

Nº	DATE	DESCRIPTION
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135 EAST M-35
GWINN, MI 49841

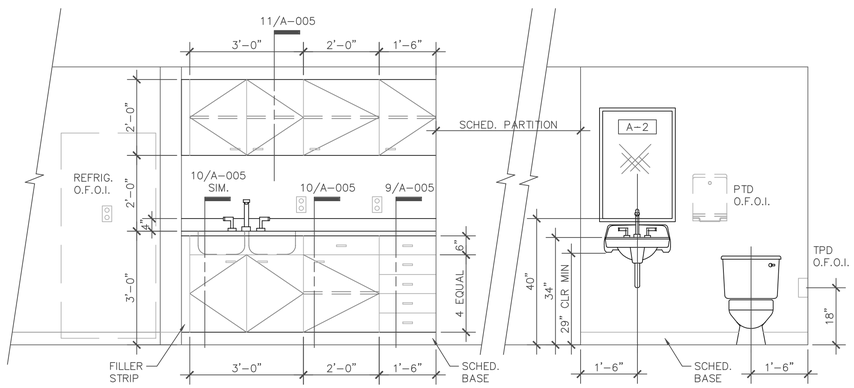
ARCHITECT
JAG
jake.guter@uglhealth.org
906-360-1757

SEAL

DETAILS AND SECTIONS

SCALE: AS NOTED
DATE: 05/09/2022

DRAWING:
A–005



ELEVATION – BREAK ROOM AND TOILET

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

1

UPPER GREAT LAKES FAMILY HEALTH CENTER
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GWINN, MI 49841

№	DATE	DESCRIPTION
1	05/02/22	ISSUE FOR BID
2	–	ISSUE FOR –

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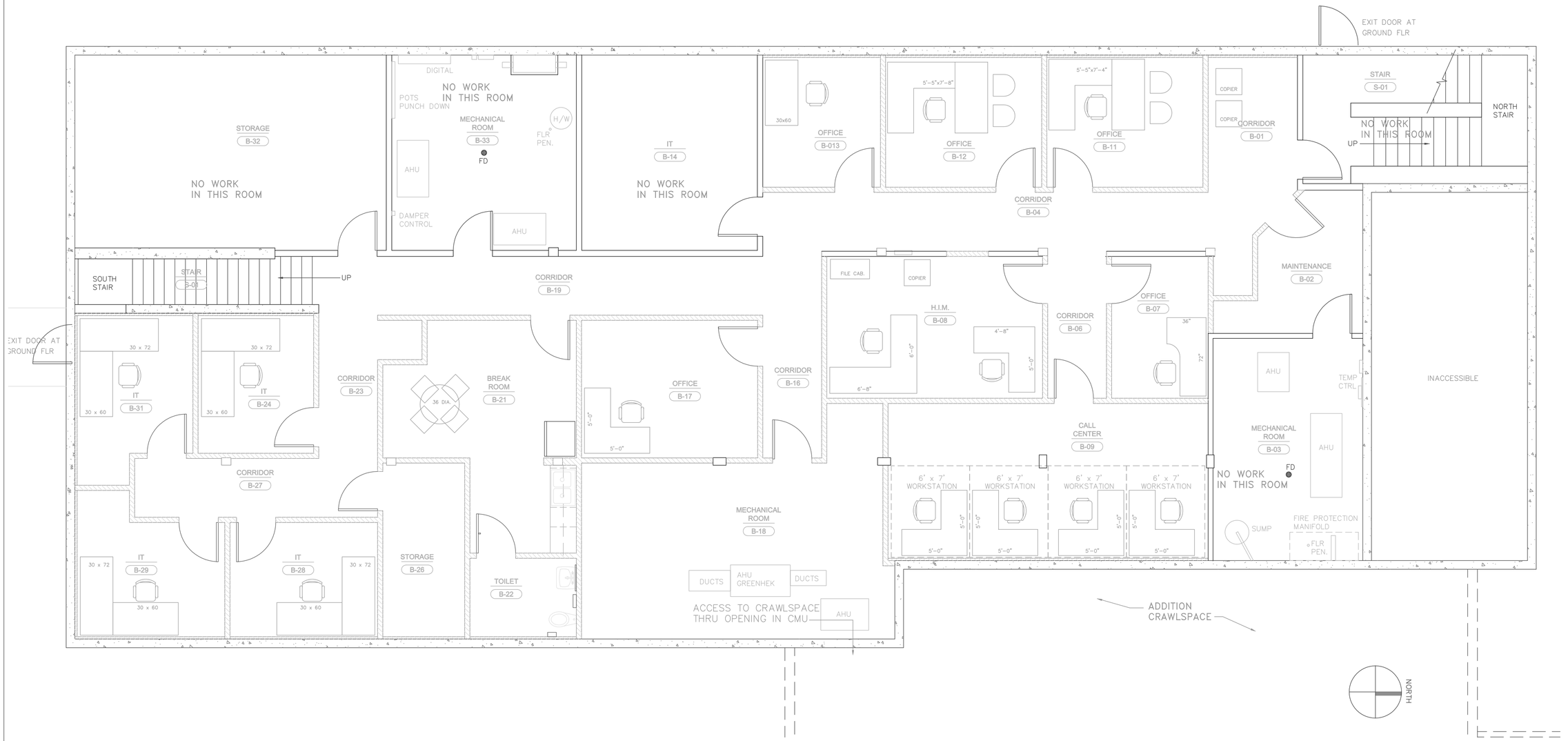
906-360-1757

SEAL

INTERIOR ELEVATIONS

SCALE: AS NOTED
DATE: 05/09/2022

DRAWING:
A–006



NO	DATE	DESCRIPTION
1	05/02/22	ISSUE FOR BID
2	–	ISSUE FOR –

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SEAL

FINISH FLOOR PLAN

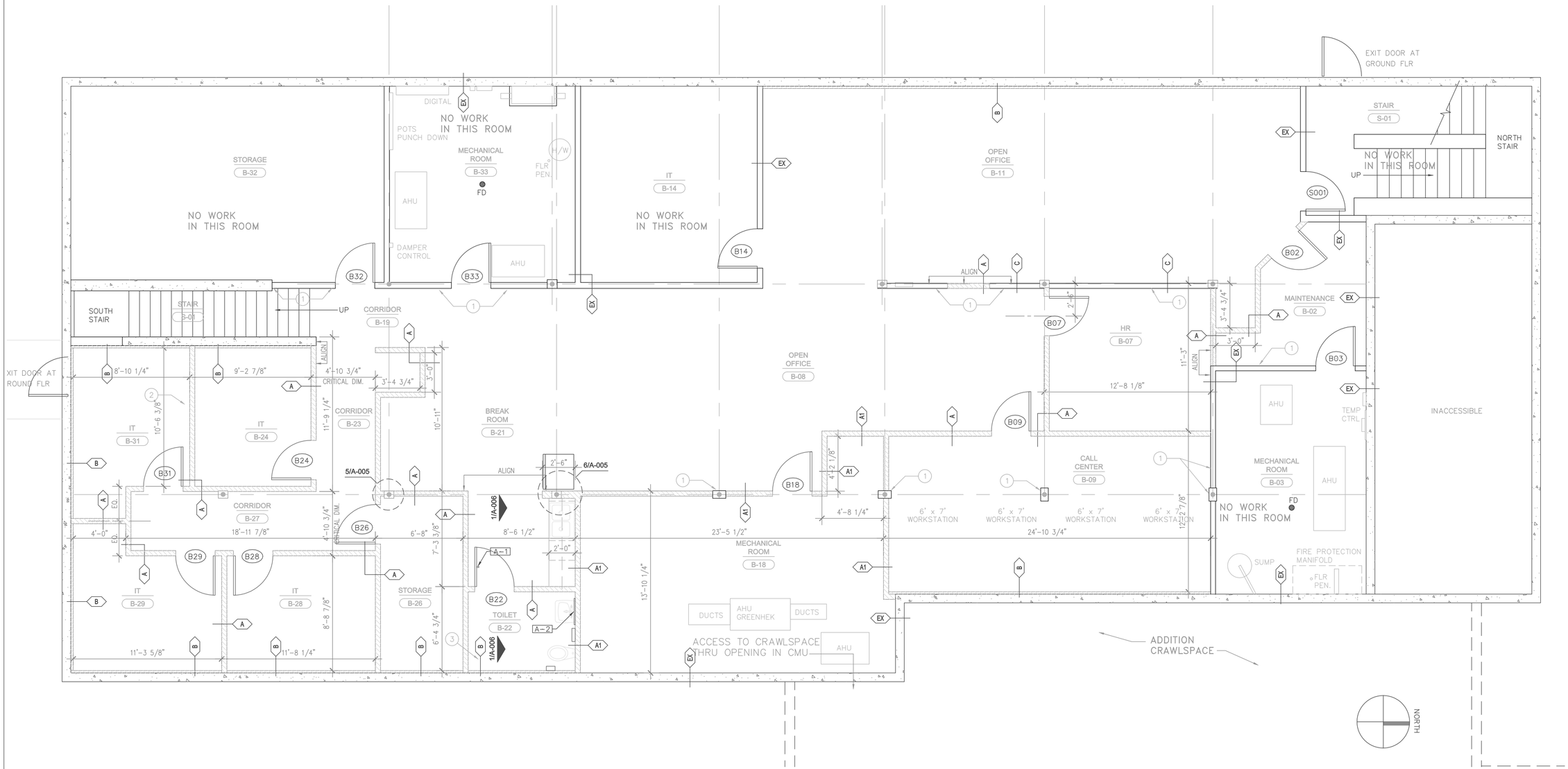
SCALE: 1/4"= 1'-0"
DATE: 05/09/2022

DRAWING:

A–007

NOTES TO SHEET	GENERAL NOTES
1.	A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO BEGINNING WORK. B. DIMENSIONS ARE TO FINISH FACE, UNLESS OTHERWISE NOTED.

FOR REFERENCE ONLY



ARCHITECTURAL LEGEND

- DRAWING REFERENCES: SHEET NUMBER / DETAIL NUMBER (2/A-001)
- SECTION FLAG WITH DRAWING REFERENCE (2/A-001)
- ELEVATION FLAG WITH DRAWING REFERENCE (3/A-001)
- DETAIL REFERENCE (2/A-001)
- ENLARGED PLAN REFERENCE DRAWING REFERENCE (6/A-001)
- DOOR TYPE (B01)
- PARTITION TYPE KEY (A)
- PLAN NOTE REFERENCE (27)
- ACCESSORY NUMBER (A-1)
- NEW PARTITION
- EXISTING PARTITION
- DOOR
- DIMENSION TO FINISHED FACE (DIMENSION)
- ALIGN INDICATED FINISHED SURFACES (ALIGN)
- REVISION. ONLY LATEST REVISION IS CLOUDED – REFERENCE REVISION COLUMN AT TITLE BLOCK

NOTES TO SHEET

1. FINISH EXISTING GYP. BOARD.
2. PROVIDE FURR OUT AT NEW VERTICAL PIPE SIMIALR TO 5/A-005.
3. NEW FLOOR CLEANOUT. REFER TO PLUMBING PLANS.

GENERAL NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO BEGINNING WORK.

B. DIMENSIONS ARE TO FINISH FACE, UNLESS OTHERWISE NOTED.

C. FLOORING CONTRACTOR TO PREPARE EXISTING FLOOR SLAB AS NECESSARY FOR NEW FLOORING.

NO	DATE	DESCRIPTION
1	05/02/22	ISSUE FOR BID
2	–	ISSUE FOR –

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GWINN CLINIC BASEMENT REMODEL
135 EAST M-35
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SEAL

ARCHITECTURAL FLOOR PLAN

SCALE: 1/4"= 1'–0"
DATE: 05/02/2022

DRAWING: ALT.1
A–001

REVISE HEAD LAYOUT, DUE TO ADDITION OF NEW WALLS, TO MEET LIGHT HAZARD REQUIREMENT OF NFPA 13. CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR AND HEIGHT OF EXISTING AND NEW PIPING TO MEET CEILING AND WALL INSTALLATION.

1 BASEMENT FIRE PROTECTION PLAN

1/4" = 1'-0"

OHM
ARCHITECTS ENGINEERS PLANNERS
424 HANCOCK STREET
HANCOCK, MICHIGAN 49930
PH 906.482.0535 | F 906.482.6453
OHM-ADVISORS.COM

SEAL

REVISIONS

DATE 05/09/2022
PROJ NUMBER 7431-22-0030
ARCH JG
PROJ MGR TW
CADD LA

UPPER GREAT LAKES FAMILY HEALTH CENTER
GWINN CLINIC BASEMENT REMODEL
135 EAST STATE HWY M35, GWINN, MI 49841

BASEMENT FIRE PROTECTION PLAN

SHEET FP-101

DRAWING PATH: P:\7401_7500\7431220030_GwinnClinicBasementRemodel\Drawings\Arch-Int\Des\2-Arch Desktop\New Facilities Project\Sheets\PLUMBING\7431-22-0030-FP-101 BASEMENT FIRE PROTECTION PLAN.dwg May 06, 2022 - 12:16pm
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DRAWING PATH: P:\7401_7500\7431220030_GwinnClinicBasementRemodel\Drawings\Arch-IntDes\2-Arch Desktop\New Facilities Project\Sheets\PLUMBING\7431-22-0030-P-001 GENERAL PLUMBING INFORMATION.dwg May 06, 2022 - 12:16pm
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GENERAL NOTES - PLUMBING

1. ALL PLUMBING EQUIPMENT AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE 2015 STATE OF MICHIGAN PLUMBING CODE AND THE 2015 INTERNATIONAL PLUMBING CODE.
2. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A PLUMBING PERMIT AND INSPECTIONS. A FINAL INSPECTION CERTIFICATE SHALL BE SUBMITTED BEFORE FINAL PAYMENT WILL BE ISSUED.
3. THE PLUMBING CONTRACTOR SHALL FURNISH SHOP DRAWINGS ON FIXTURES, APPURTENANCES AND MATERIALS THAT HE INTENDS TO FURNISH, FOR APPROVAL TO OWNER.
4. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE FIXTURES INSTALLED DURING THE ROUGH PLUMBING.
5. A BOUND MANUAL SHALL BE SUBMITTED UPON COMPLETION WITH MAINTENANCE INSTRUCTIONS, PARTS LISTS, AND MANUFACTURER'S WARRANTIES. ALSO A WARRANTY FROM THE PLUMBING CONTRACTOR ALONG WITH RECORD DRAWINGS SHALL BE SUBMITTED AT THIS TIME.
6. THE PLUMBING CONTRACTOR SHALL PLUG/CAP PIPES IN ALL AREAS WHERE WALLS ARE BEING DEMOLISHED.
7. PLUMBING PIPING TYPES:
   A. DOMESTIC WATER: ABOVE GROUND, 2½" AND SMALLER, TYPE L, SOLDERED (95/5) JOINTS
   B. DWV: HUB & SPIGOT CAST IRON–ASTM–A74, HUBLESS CAST IRON–ASTM–A888, SCHEDULE 40 PVC–ASTM–D1785 AND D2665, FITTINGS ASTM–D2466.
   C. GAS PIPING: STEEL PIPE–ASTM A53/A TYPE E OR S, GRADE B, BLACK WALL. THICKNESS OF WROUGHT STEEL PIPE SHALL COMPLY WITH ASME B36–10M, COPPER TUBE ASTM B88, TYPE L, ANNEALED TEMPER.

ABBREVIATIONS

A	
AFF	ABOVE FINISH FLOOR
AR	ARGON GAS
B	
BFP	BACK FLOW PREVENTER
C	
CS	CHEMICAL SEWER
CW	DOMESTIC COLD WATER
D	
DF	DRINKING FOUNTAIN
DIA ø	DIAMETER
DT	DRAIN TILE
DW	DISH WASHER
DWV	DRAIN WASTE VEVT
E	
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
F	
FD	FLOOR DRAIN
FCO	FLOOR CLEAN OUT
FT	FEET
G	
G	NATURAL – LP GAS
GP	GRINDER PUMP

ABBREVIATIONS

GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	
H2	HYDROGEN GAS
HB	HOSE BIB
HE	HELIUM GAS
HP	HORSEPOWER
HVAC	HEATING VENTILATION & AIR CONDITIONING
HW	DOMESTIC HOT WATER
HWC	DOMESTIC HOT WATER CIRCULATION
HWCP	HOT WATER CIRCULATION PUMP
L	
L	LAVARORTY
M	
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
N	
N2	NITROGEN GAS
O	
OD	OVERFLOW DRAIN
P	
P	PUMP

ABBREVIATIONS

PH ϕ	PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
R	
RD	ROOF DRAIN
REM	REMOVE
S	
S	SINK
SH	SHOWER
T	
TYP	TYPICAL
U	
U	URINAL
V	
V	VENT
VTR	VENT THROUGH ROOF
W	
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER

PLUMBING LEGEND

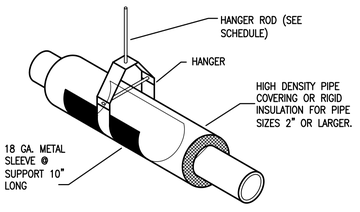
PLUMBING PIPING

	PROPOSED	EXISTING	DEMOLITION
DOMESTIC COLD WATER	CW	CW	CW
DOMESTIC HOT WATER	HW	HW	HW
SANITARY WASTE	W	W	W
SANITARY VENT	V	V	V
NATURAL/LP GAS	G	G	G

PLUMBING TAGS & SYMBOLS

- VAV-1 — EQUIPMENT TAG
- P.1 — KEY NOTE TAG
- BREAK LINE
- 1 — REVISION TAG
- CONNECT TO EXISTING
- PIPE BREAK
- PIPE DROP
- PIPE RISE
- ISOLATION VALVE
- HOSE BIB

PIPE HANGER SCHEDULE



PIPE SIZE (NOMINAL)	HANGER SPACING (FT)				HANGER ROD SIZE
	STEEL	CAST IRON	COPPER	PVC/ABS	
½"	5	–	6	3	⅜"
¾"	6	–	6	4	⅜"
1"	7	–	6	4	⅜"
1¼"	8	–	6	4	⅜"
1½"	9	5	10	4	⅜"
2"	10	5	10	4	⅜"
2½"	10	–	10	4	½"
3"	10	5	10	4	½"
4"	10	5	10	4	½"
5"	10	5	10	–	½"
6"	10	5	10	–	½"

INSULATION SCHEDULE

ITEM	THICKNESS	TYPE
DOMESTIC HOT WATER	1" TO 1½" NOTE 1	FIBERGLASS, SELF SEALING JACKET & PVC FITTING COVERS
DOMESTIC COLD WATER	1"	FIBERGLASS, SELF SEALING JACKET & PVC FITTING COVERS

NOTE 1: FOR PIPING NO LARGER THAN 1¼" INSULATION THICKNESS SHALL BE 1". FOR PIPING 1½" AND LARGER INSULATION THICKNESS SHALL BE 1½".

PLUMBING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO.	TRIM	REMARKS	ADA
WC–1	WATER CLOSET, FLOOR MOUNTED, FLUSH TANK, VITREOUS CHINA, WHITE, ELONGATED RIM, 1.6 GAL FLUSH	KOHLER	HIGHLINE K–3611	SEAT: CHURCH 9500CT		♿
L–1	LAVORATORY, 21" X 18" WALL HUNG, VITREOUS CHINA, WHITE	AMERICAN STANDARD	0355.012	FAUCET: DELTA 523LF–HDF	MIXING VALVE: WATTS LFLM495 GUARD: TRUEBRO LAV GUARD 2	♿
S–1	DOUBLE BOWL SINK, 33" X 22" COUNTERTOP MOUNT, 18 GA STAINLESS STEEL	ELKAY	LRAD332160	FAUCET: DELTA 21987LF	MIXING VALVE: WATTS LFLM495 PROVIDE P–TRAP	♿
FCO–1	FLOOR CLEAN OUT, LEVEL–TROL ADJUSTABLE	ZURN	ZN1400	DURA COATED BODY W/ ROUND POLISHED NICKEL BRONZE TOP	VERIFY SETTING BEFORE CONCRETE SETS.	
GP–1	GRINDER PUMP	ZOELLER	915–0087	1 HP 115V/1ϕ	PROVIDE WITH BASIN, COVER, AND ALARM	

FIXTURE NOTES

1. SEAL AROUND FIXTURES WITH A WHITE SILICONE SEALANT.
2. ALL FIXTURES SHALL BE FURNISHED WITH STOP VALVES, COPPER OR BRASS CHROME PLATED SUPPLY TUBES AND ADEQUATE SIZED ESCUTCHEONS.
3. ALL EXPOSED PIPING AND FITTINGS SHALL BE CHROME PLATED.
4. ALL FIXTURES SHALL HAVE MANUFACTURERS FURNISHED BOLT COVERS.
5. ALL FIXTURES SHALL HAVE MANUFACTURERS ADVERTISING STICKERS REMOVED PRIOR TO COMMISSIONING FIXTURES.
6. CONTRACTOR SHALL VERIFY LOCATIONS OF SINKS, LAVATORIES ETC. WITH ARCHITECTURAL DRAWINGS AND CABINETRY SHOP DRAWINGS.
7. CONTRACTOR SHALL VERIFY LOW POINTS OF ROOFS AND INSTALL ROOF DRAINS AT LOW POINTS.

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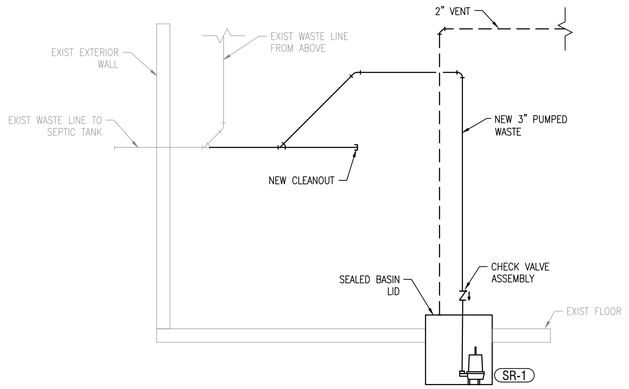
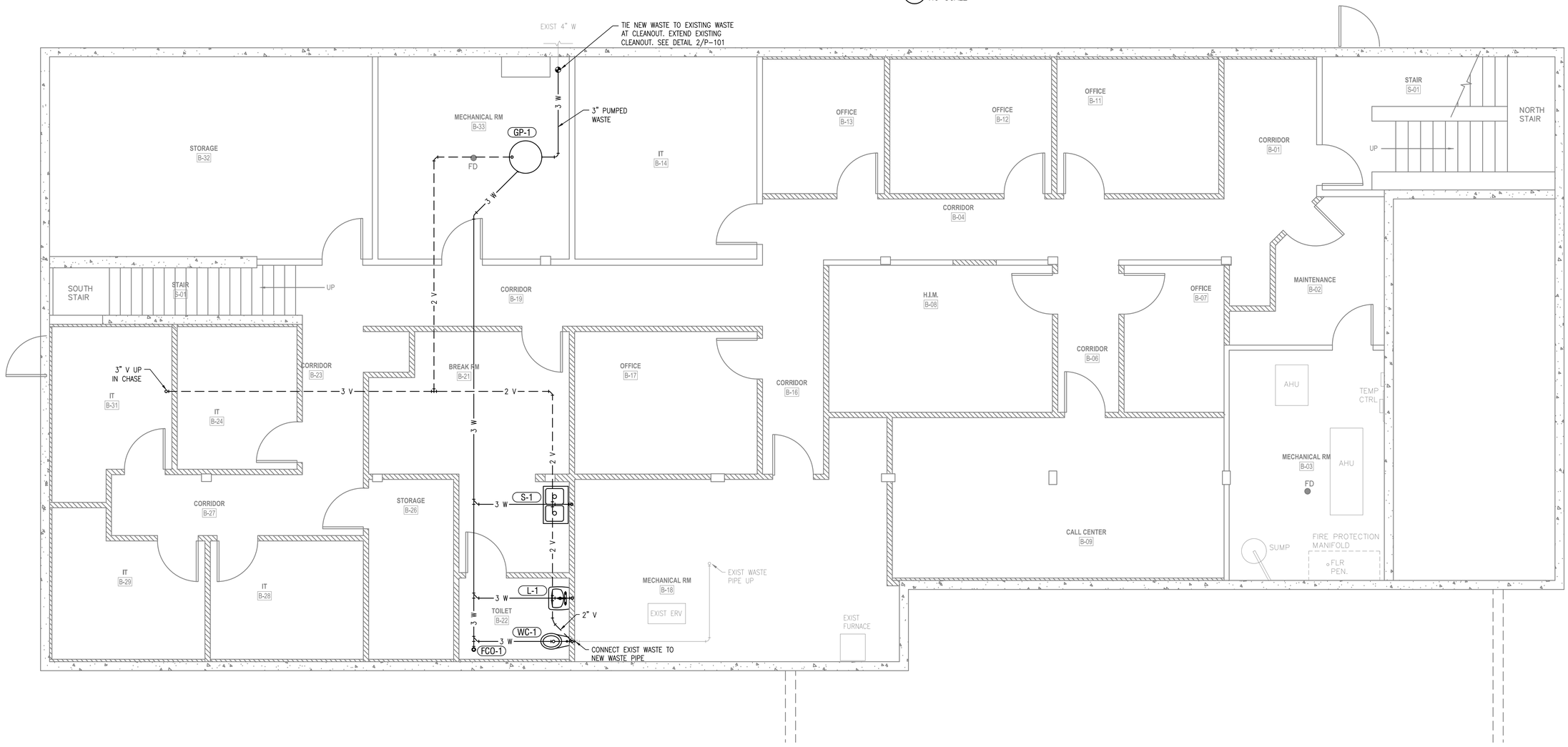
UPPER GREAT LAKES FAMILY HEALTH CENTER
GWINN CLINIC BASEMENT REMODEL
135 EAST STATE HWY M35, GWINN, MI 49841
GENERAL PLUMBING INFORMATION

SHEET P-001



2 SUMP PUMP DETAIL
NO SCALE



1 BASEMENT DRAIN, WASTE & VENT PLAN
1/4" = 1'-0"

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BASEMENT DRAIN, WASTE AND VENT PLAN

SHEET P-101

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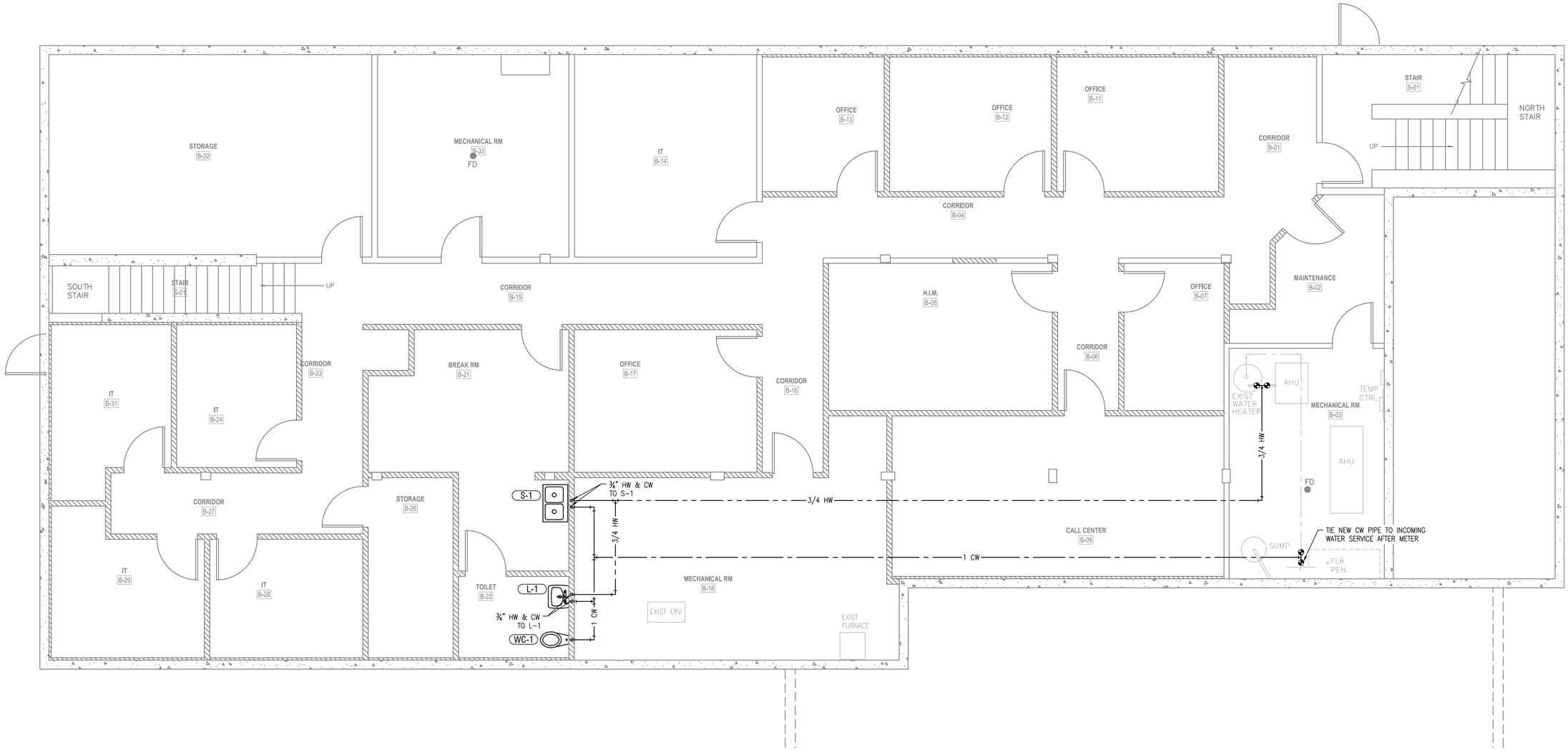

1 BASEMENT DOMESTIC WATER PLAN
1/4" = 1'-0"

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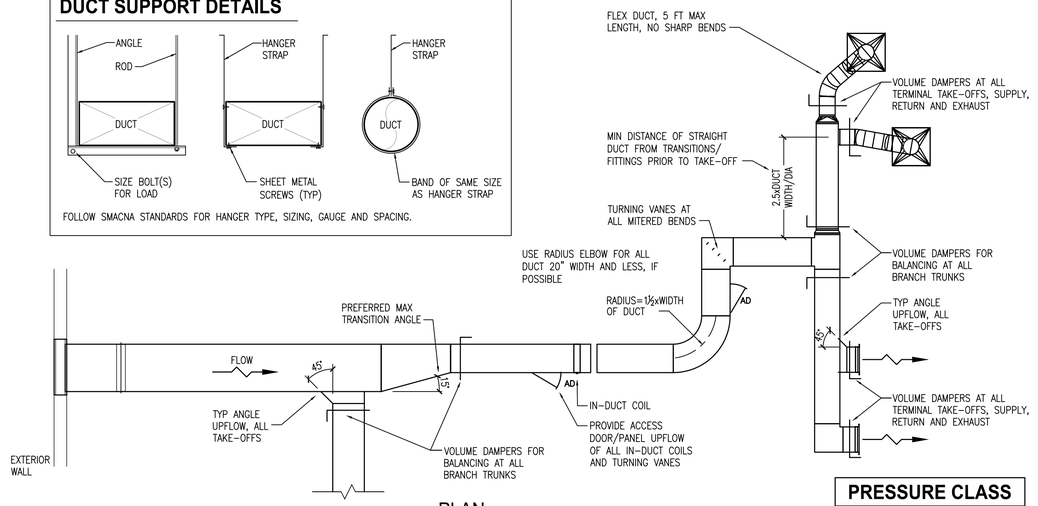
BASEMENT DOMESTIC WATER PLAN

SHEET P-102

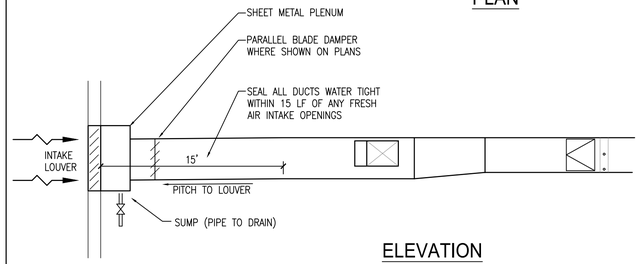
DUCTWORK REQUIREMENTS

DUCT SUPPORT DETAILS

FOLLOW SMACNA STANDARDS FOR HANGER TYPE, SIZING, GAUGE AND SPACING.



PLAN



ELEVATION

PRESSURE CLASS	
½", 1" & 2" WG CFM PER 100 SQ FT @ 1" WG	
SEAL CLASS	C
RECTANGULAR DUCT	24
ROUND DUCT	12

DUCT WORK REQUIREMENT NOTES

1. ITEMS AS SHOWN ARE THE MINIMUM REQUIRED AND SHALL BE PROVIDED BY THE CONTRACTOR WHETHER SHOWN ON THE FOLLOWING PLANS OR NOT.
2. LISTED DUCT SIZES INDICATE THE INSIDE CLEAR DIMENSIONS, NOT INCLUDING DUCT LINER.
3. ALL FLAT SURFACES ON DUCTS AND FITTINGS SHALL BE EITHER CROSS BROKE OR BEADED.
4. DUCT SEAMS SHALL BE EITHER PITTSBURG OR BUTTON LOCK.
5. STANDING RIB CLEATS ARE REQUIRED ON DUCTS HAVING WIDTHS OF 24" OR MORE.
6. ALL JOINTS IN SHEET METAL SHALL BE SEALED WITH AN APPROVED DUCT SEALANT.
7. ALL DAMPERS MUST HAVE A POSITION INDICATOR ON THE SHAFT.
8. DAMPERS GREATER THAN 8" IN WIDTH MUST BE OPPOSED BLADE

GENERAL NOTES - MECHANICAL

1. FIELD VERIFY LOCATIONS OF EXISTING PIPING THAT MAY CONFLICT WITH NEW CONSTRUCTION AND RELOCATE AS NEEDED.
2. COORDINATE LOCATIONS OF THE THERMOSTATS WITH OTHER TRADES.
3. PROVIDE BALANCE DAMPERS FOR EACH DIFFUSER/GRILLE AND BRANCH DUCT.
4. COORDINATE EQUIPMENT SIZES WITH ARCHITECTURAL TRADES PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL FIELD VERIFY THE SIZES, LOCATION, ELEVATIONS, AND DETAILS OF ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EQUIPMENT AND MATERIALS IN A "NEW" CONDITION DURING CONSTRUCTION.
7. ALL EXTERNALLY ISOLATED HVAC EQUIPMENT SHALL HAVE FLEXIBLE DUCT CONNECTORS.
8. ALL CONDENSATE DRAIN PIPING TO TERMINATE TO DRAIN VIA AIR GAP.
9. DRAWINGS INDICATE REQUIRED SIZES AND POINTS OF TERMINATION OF PIPES AND DUCTS AND SUGGESTED ROUTES. IT IS THE NOT INTENTION THE OF DRAWINGS TO INDICATE ALL NECESSARY OFFSETS. INSTALL WORK IN MANNER TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. DO NOT SCALE FROM DRAWINGS.

ABBREVIATIONS

A	
A	AIR
AAV	AUTOMATIC AIR VENT
AD	ACCESS DOOR
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
APD	AIR PRESSUR DROP
AS	AIR SEPARATOR
B	
B	BOILER
BDD	BACKDRAFT DAMPER
BFP	BACK FLOW PREVENTER
C	
CFM	CUBIC FEET PER MINUTE
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
COND	CONDENSING UNIT
CONV	CONVECTOR
CR	CONDENSATE RETURN
CUH	CABINET UNIT HEATER
D	
DB	DRY BULB
DIA ø	DIAMETER
DN	DOWN
E	
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
ERV	ENERGY RECOVERY VENTILATOR
ET	EXPANSION TANK
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
F	
F	FURNACE
FCU	FAN COIL UNIT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET

ABBREVIATIONS

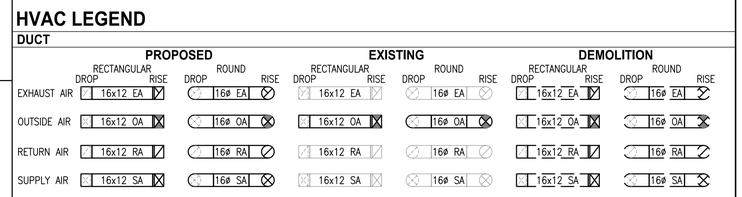
FTR	FIN TUBE RADIATION
G	
G	NATURAL – LP GAS
GA	GAUGE
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	
HC	HOT WATER COIL
HP	HORSEPOWER
HPS	HIGH PRESSURE STEAM
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HRU	HEAT RECOVERY UNIT
HVAC	HEATING VENTILATION & AIR CONDITIONING
HX	HEAT EXCHANGER
I	
IN	INCH
K	
KH	KITCHEN HOOD
L	
LVR	LOUVER
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LF	LINEAR FEET
LPS	LOW PRESSURE STEAM
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
M	
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCA	MINUMUM CIRCUIT AMPS
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MUA	MAKE UP AIR UNIT
O	
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER

ABBREVIATIONS

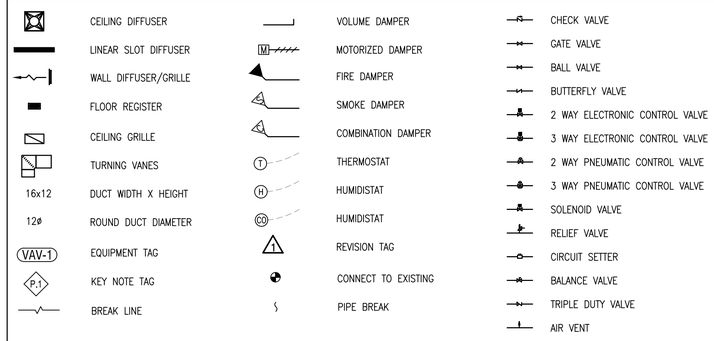
P	
P	PUMP
PH ϕ	PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
R	
R	SUPPLY REGISTER
RA	RETURN AIR
RAD	RADIANT HEATER
RD	ROUND DIFFUSER
REM	REMOVE
RF	RETURN FAN
RH	GRAVITY RELIEF HOOD
RPM	REVOLUTIONS PER MINUTE
RTH	RADIANT TUBE HEATER
RTU	ROOF TOP UNIT
S	
SA	SUPPLY AIR
SC	STEAM COIL
SD	SMOKE DAMPER
SF	SUPPLY FAN
SP	STATIC PRESSURE
STM	STEAM
SWG	SIDE WALL GRILLE
SWR	SIDE WALL REGISTER
T	
TYP	TYPICAL
U	
UH	UNIT HEATER
V	
V	VENT
VAV	VARIABLE AIR VOLUME
VD	VANED DIFFUSER
W	
WPD	WATER PRESSURE DROP
WH	WATER HEATER

HVAC LEGEND

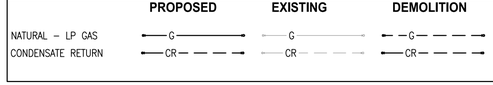
DUCT



DIFFUSERS, GRILLES, TAGS & SYMBOLS



PIPING



ROOM VENTILATION DATA

ROOM	AREA	OCCUPANTS PER 1000 SQ FT	TOTAL OCCUPANTS	RA (CFM/SQ FT)	RP (CFM/PERSON)	RA REQUIRED (CFM)	RP REQUIRED (CFM)	EXHAUST FLOW (CFM)	TOTAL CFM (RA+RP)
B-02 MAINTENANCE	91	–	–	–	–	–	–	–	–
B-07 OFFICE	81	5	1	0.06	5	5	5	–	10
B-08 HIM OFFICE	180	5	1	0.06	5	11	5	–	16
B-09 CALL CENTER	291	5	2	0.06	5	18	10	–	28
B-11 OFFICE	119	5	1	0.06	5	8	5	–	13
B-12 OFFICE	119	5	1	0.06	5	8	5	–	13
B-13 OFFICE	89	5	1	0.06	5	6	5	–	11
B-17 OFFICE	142	5	1	0.06	5	9	5	–	14
B-21 BREAK ROOM	203	50	11	0.06	5	13	55	–	68
B-22 TOILET	49	–	–	–	–	–	–	75	–
B-24 IT	93	5	1	0.06	5	6	5	–	11
B-26 STORAGE	84	–	–	0.12	–	10	–	–	11
B-28 OFFICE	99	5	1	0.06	5	6	5	–	11
B-29 OFFICE	109	5	1	0.06	5	7	5	–	12
B-31 IT	104	5	1	0.06	5	7	5	–	12
TOTALS								75	230

NATURAL GAS LOAD SCHEDULE

DRAWING TAG	EQUIPMENT	INPUT BTU	CUBIC FEET PER HOUR	REMARKS
F-1	FURNACE	100000	100.0	EXISTING
F-2	FURNACE	100000	100.0	EXISTING
F-3	FURNACE	100000	100.0	EXISTING
F-4	FURNACE	100000	100.0	EXISTING
F-5	FURNACE	80000	80.0	EXISTING
F-6	FURNACE	60000	60.0	NEW
WH-1	WATER HEATER	199999	200.0	EXISTING
	TOTAL	739999	740.0	

ALL NATURAL GAS LINE SIZES BASED ON DELIVERY PRESSURE OF 7" W.C.

INSULATION SCHEDULE

ITEM	THICKNESS	TYPE	REMARKS
OUTSIDE AIR DUCT	2"	FIBERGLASS	TYPE FSK
SUPPLY DUCT	1½"	FIBERGLASS	TYPE FSK
EXHAUST DUCT	2"	FIBERGLASS	TYPE FSK

1. ALL DUCTS WITHIN 25' OF MOTORS, INSTALL 1" MANVILLE LINO-COUSTIC DUCT LINER OR EQUAL, EXCLUDING OA DUCT.
2. EXPOSED DUCTWORK SHALL BE INSULATED WITH RIGID FIBERGLASS DUCT INSULATION AND JACKET.
3. INSULATE EXHAUST DUCTS WITHIN 10' OF EXTERIOR OPENINGS AND EXHAUST DUCTS EXPOSED TO OUTSIDE AIR.

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GENERAL MECHANICAL INFORMATION

SHEET M-001

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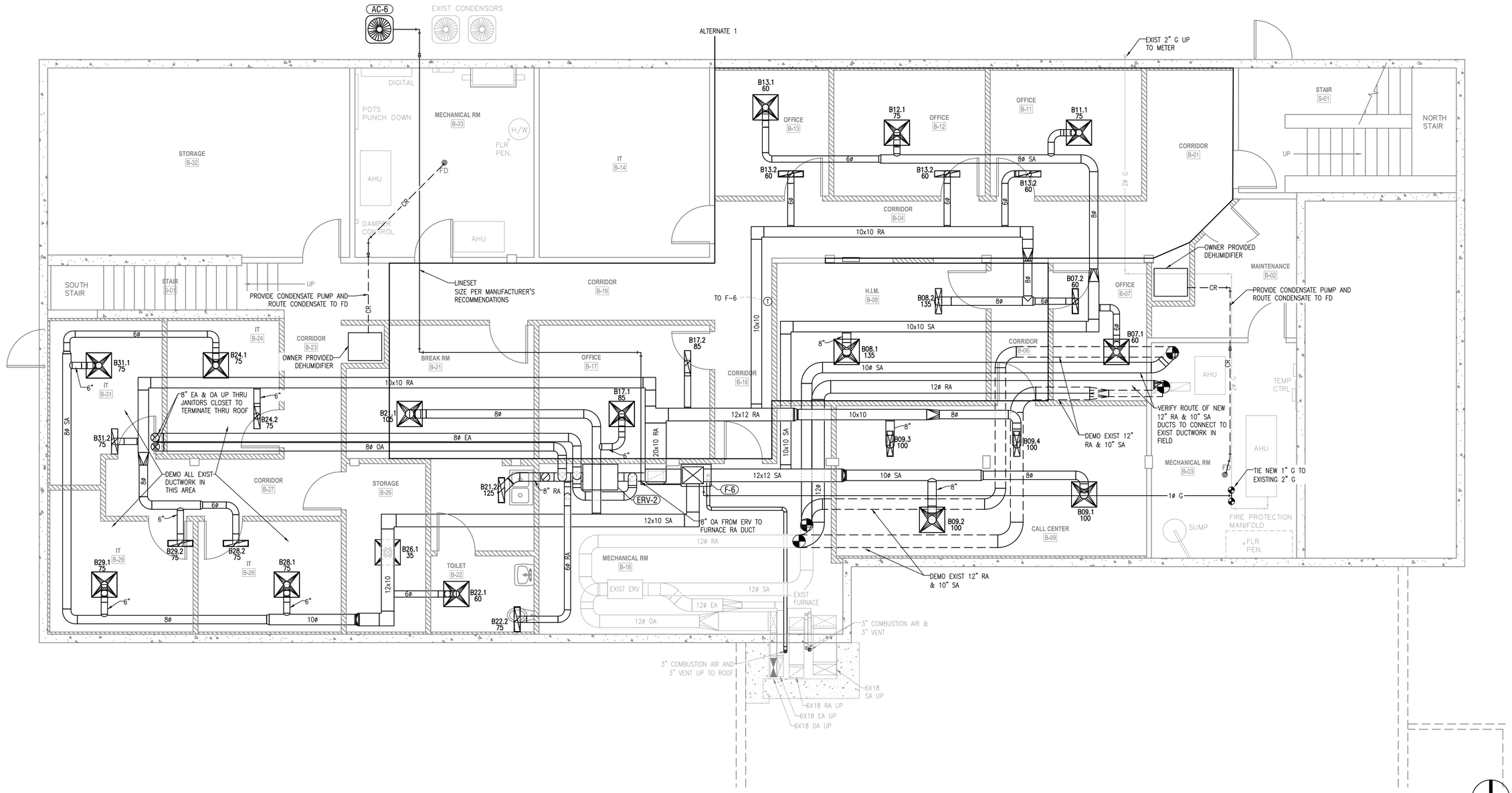

1 BASEMENT MECHANICAL PLAN
1/4" = 1'-0"

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BASEMENT MECHANICAL PLAN

SHEET M-101

ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	SERVICE	LOCATION	SUPPLY AIR						EXHAUST AIR		SUPPLY FAN			EXHAUST FAN			MANUFACTURER	MODEL	REMARKS
			CFM	SUMMER EAT DB/WB (°F)	WINTER EAT (°F)	SUMMER LAT DB/WB (°F)	WINTER LAT (°F)	ESP (IN-WG)	CFM	ESP (IN-WG)	HP	VOLTAGE	PHASE	HP	VOLTAGE	PHASE			
ERV-2	BASEMENT	B-18 MECHANICAL ROOM	230	85/69	-14	75/63	52	0.9	200	0.9	0.2	120	1	0.2	120	1	RENEWAIRE	EV300	

DIFFUSER & GRILLE SCHEDULE

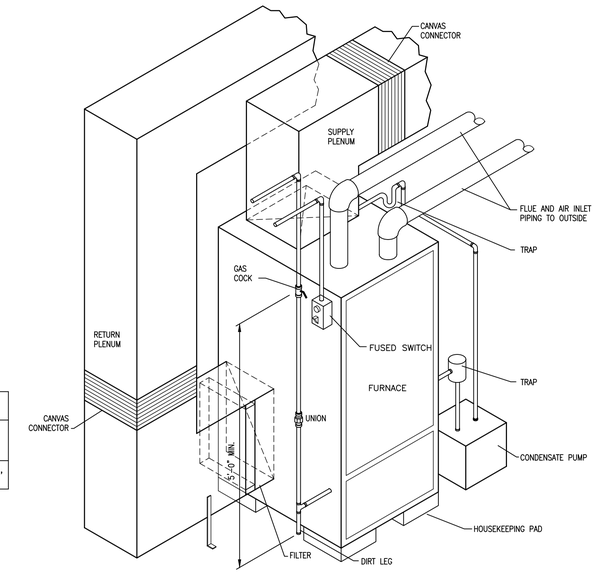
MARK	SUPPLY-DIFFUSER	RETURN-GRILLE	EXHAUST-GRILLE	SIZE	MANUF	MODEL	QTY	CFM	REMARKS
B07.1	X			24X24	PRICE	SPD	1	75	
B07.2		X		24X6	PRICE	80	1	75	
B08.1	X			24X24	PRICE	SPD	1	135	
B08.2		X		24X6	PRICE	80	1	135	
B09.1	X			24X24	PRICE	SPD	1	100	
B09.2	X			24X24	PRICE	SPD	1	100	
B09.3		X		24X6	PRICE	80	1	100	
B09.4		X		24X6	PRICE	80	1	100	
B11.1	X			24X24	PRICE	SPD	1	75	
B11.2		X		24X6	PRICE	80	1	75	
B12.1	X			24X24	PRICE	SPD	1	75	
B12.2		X		24X6	PRICE	80	1	75	
B13.1	X			24X24	PRICE	SPD	1	60	
B13.2		X		24X6	PRICE	80	1	60	
B17.1	X			24X24	PRICE	SPD	1	85	
B17.2		X		24X6	PRICE	80	1	85	
B21.1	X			24X24	PRICE	SPD	1	105	
B21.2			X	24X6	PRICE	80	1	125	
B22.1	X			24X24	PRICE	ASPD	1	60	
B22.2			X	24X6	PRICE	80	1	75	
B24.1	X			24X24	PRICE	SPD	1	75	
B24.2		X		24X6	PRICE	80	1	75	
B26.1	X			24X24	PRICE	SPD	1	35	
B28.1	X			24X24	PRICE	SPD	1	75	
B28.2		X		24X6	PRICE	80	1	75	
B29.1	X			24X24	PRICE	SPD	1	75	
B29.2		X		24X6	PRICE	80	1	75	
B31.1	X			24X24	PRICE	SPD	1	75	
B31.2		X		24X6	PRICE	80	1	75	

FURNACE SCHEDULE

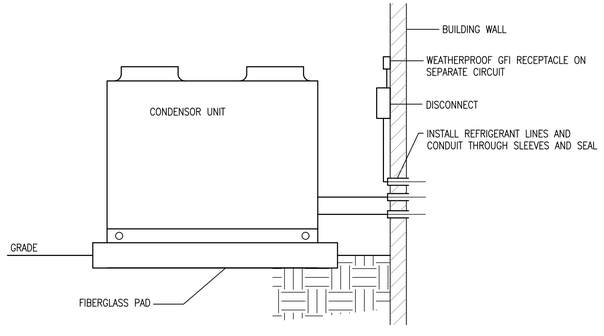
MARK	SERVICE	LOCATION	CFM		MBH		ELECTRICAL	MANUFACTURER	MODEL	REMARKS
			HEATING	COOLING	INPUT	OUTPUT				
F-6	BASEMENT	B-18 MECHANICAL ROOM	1080	1200	60	58.8	120/60/1	GOODMAN	GMVM970603BN	PROVIDE WITH CONDENSATE PUMP, INTERLOCK WITH ERV-2

CONDENSING UNIT SCHEDULE

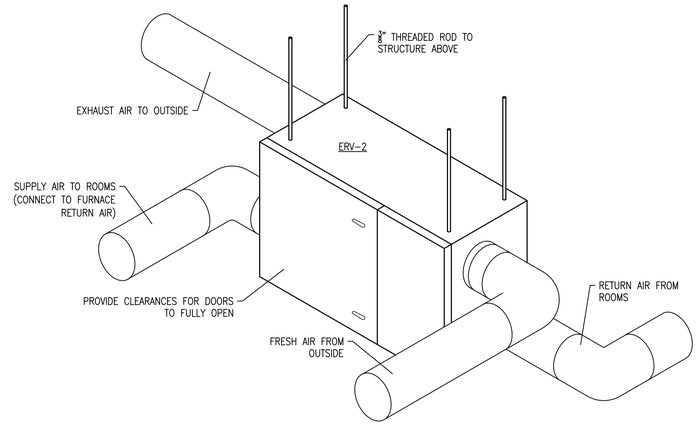
MARK	SERVICE	LOCATION	MBH	ELECTRICAL			MANUFACTURER	MODEL	REMARKS
				Volt/Hz/Ph	MCA	MCB			
AC-6	F-6	OUTSIDE	30	230/60/1	16.7	25	GOODMAN	GX130301	



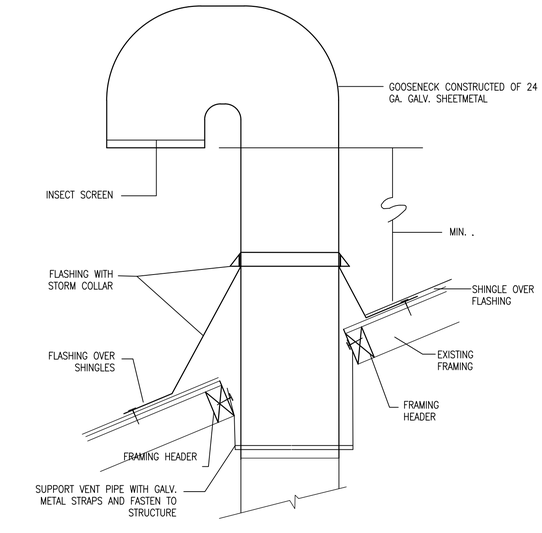
4 **FURNACE W/CONDENSATE PUMP DETAIL**
NO SCALE



3 **CONDENSOR ON GRADE DETAIL**
NO SCALE



2 **ENERGY RECOVERY VENTILATOR DETAIL**
NO SCALE



1 **GOOSENECK VENT THRU ROOF DETAIL (EXHAUST)**
NO SCALE

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MECHANICAL SCHEDULES AND DETAILS

SHEET M-301

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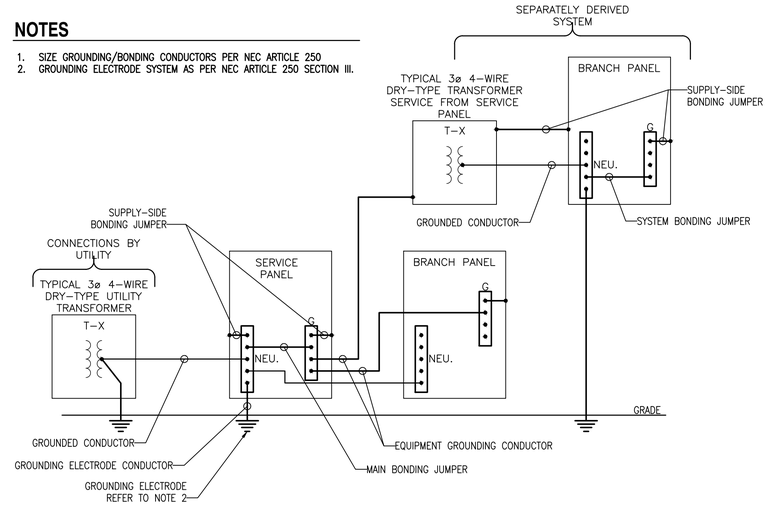
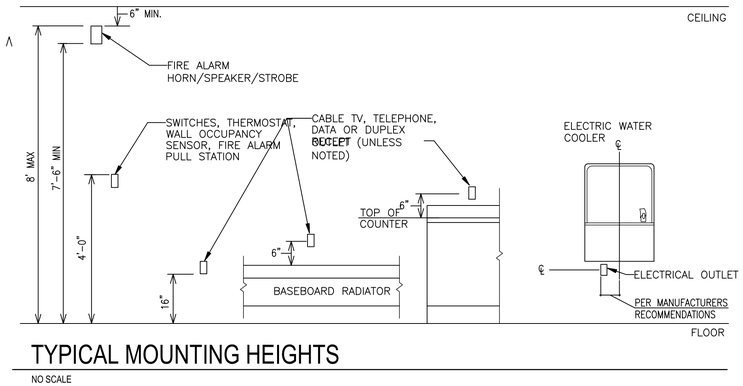
NOTES

1. SIZE GROUNDING/BONDING CONDUCTORS PER NEC ARTICLE 250
2. GROUNDING ELECTRODE SYSTEM AS PER NEC ARTICLE 250 SECTION III.



GROUNDING BONDING DIAGRAM

NO SCALE



TYPICAL MOUNTING HEIGHTS

NO SCALE

ELEC. ABBREVIATIONS

_SPECIAL	
ø	PHASE
A	
A	AMPERE
AFF	ABOVE FINISHED FLOOR
ATS	AUTOMATIC TRANSFER SWITCH
C	
C	CONDUIT
CAT	CATALOGUE
CB	CIRCUIT BREAKER
CMU	CONCRETE MASONRY UNIT
CO.	COMPANY
CUH	CABIN UNIT HEATER
E	
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EWC	ELECTRIC WATER COOLER
F	
FA	FIRE ALARM
G	
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	EQUIPMENT GROUND
H	
HID	HIGH INTENSITY DISCHARGE
HOA	HAND OFF AUTO
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING VENTILATION & AIR CONDITIONING
K	
K	KEY OPERATED DEVICE
KVA	KILOVOLT–AMPERES
KW	KILO–WATTS
L	
LED	LIGHT EMITTING DIODE
M	
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MH	METAL HALIDE
MISC	MISCELLANEOUS
MLO	MAIN LUG ONLY
MTD	MOUNTED
N	
NEU	NEUTRAL
NO	NUMBER
P	
PL	PILOT
R	
RECP	RECEPTACLE
T	
TEL	TELEPHONE
TRANS	TRANSFORMER
TV	TELEVISION
TYP	TYPICAL
U	
UGE	UNDERGROUND ELECTRIC
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	
V	VOLT
VA	VOLT–AMPERES
W	
W	WIRE
WNC	WIRELESS NETWORK CONTROLLER
WP	WEATHERPROOF

GENERAL NOTES - ELECTRICAL

1. ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT NATIONAL ELECTRICAL CODE AND ANY STATE/LOCAL AMENDMENTS.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF AN ELECTRICAL PERMIT AND SCHEDULING OF THE NECESSARY INSPECTIONS. UPON COMPLETION OF THE WORK THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE OWNER EVIDENCE OF INSPECTION APPROVAL.
3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION REQUIRED WITH THE ELECTRIC UTILITY SERVING THE FACILITY. UTILITY COSTS SHALL BE PAID SEPARATELY BY THE OWNER.

ELECTRICAL LEGEND

LIGHT FIXTURES

- SURFACE / CEILING MOUNT
- EMERGENCY SURFACE / CEILING MOUNT
- PENDANT / CHAIN MOUNT
- EMERGENCY PENDANT / CHAIN MOUNT
- RECESSED MOUNT
- EMERGENCY RECESSED MOUNT
- TRACK STRIP
- WALL MOUNT (INT.) (EXT.)
- EMERGENCY WALL MOUNT (INT.) (EXT.)
- EXTERIOR POLE MOUNT
- EXTERIOR POST MOUNT
- BOLLARD
- INTERIOR EMERGENCY WALL PACK
- EXIT SIGN (WALL) (CEILING)
- CEILING FAN (LIGHT) (NO LIGHT)

POWER DISTRIBUTION

- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- COMBINATION MOTOR STARTER WITH DISCONNECT SWITCH
- MOTOR STARTER
- M ELECTRICAL METER
- DP ## DISTRIBUTION PANEL
- P## ELECTRICAL POWER PANEL SURFACE MOUNT
- P## ELECTRICAL POWER PANEL FLUSH MOUNT
- R RELAY
- T ELECTRICAL TRANSFORMER
- PB ELECTRICAL PULL BOX
- VARIABLE FREQUENCY DRIVE
- J JUNCTION BOX (CEILING) (WALL) SURFACE
- SINGLE PHASE MOTOR
- THREE PHASE MOTOR

RECEPTACLE OUTLETS

- SIMPLEX RECEPTACLE
- DUPLEX GROUNDED RECEPTACLE
  - CTR MOUNTED ABOVE COUNTER
  - G GFCI
  - GC GFCI – MOUNTED ABOVE COUNTER
  - U DUAL USB PORTS
  - UC DUAL USB PORTS ABOVE COUNTER
  - WP WEATHERPROOF COVER W/ GFCI
  - T TAMPERPROOF
  - TC TAMPERPROOF ABOVE COUNTER
  - TGC TAMPERPROOF GFCI ABOVE COUNTER
- 208V, 1ø STRAIGHT BLADE RECEPTACLE
  - D DRYER RECEPTACLE
  - R RANGE RECEPTACLE
- QUADRUPLEX RECEPTACLE
- DUPLEX RECEPT ON EMERGENCY POWER
- FLOOR BOX
- 3ø RECEPTACLE

SWITCH OUTLETS

SWITCHES: X = DESIGNATION BELOW, Z = ZONE DESIGNATION

- SINGLE POLE
- 2 TWO POLE
- 3 THREE WAY
- 4 FOUR WAY
- DM DIMMER
- F FAN
- K KEY OPERATED
- LV LOW VOLTAGE
- M MOTION DETECTION
- P PILOT LIGHT
- T TIMER

SENSORS: X = DESIGNATION BELOW

- CEILING: D DAYLIGHT, O OCCUPANCY, V VACANCY
- WALL: X

- PB EMERGENCY STOP SWITCH
- PUSH BUTTON SWITCH
- PC PHOTOCELL
- CEILING MOUNTED PULL SWITCH
- WIRELESS NETWORK LIGHTING CONTROLLER XX = CONTROLLER INDICATOR

SECURITY

- CR CARD READER
- DC MAGNETIC SWITCH (DOOR CONTACT)
- DL ELECTRONIC DOOR LOCK
- DO MOTORIZED DOOR OPERATOR
- ES ELECTRIC STRIKE
- K KEYPAD ENTRY DEVICE
- CEILING / WALL: SECURITY CAMERA

FIRE ALARM SYSTEM

- OUTDOOR BELL / CHIME
- S SMOKE DETECTOR
- S_A SMOKE DETECTOR WITH AUDIBLE BASE
- S_{CO} SMOKE/CARBON MONOXIDE DETECTOR
- DUCT SMOKE DETECTOR
- HD HEAT DETECTOR
- CEILING / WALL: FIRE ALARM HORN/STROBE
- FIRE ALARM STROBE
- FIRE ALARM HORN
- FIRE ALARM SPEAKER/STROBE
- FIRE ALARM SPEAKER
- F FIRE ALARM PULL STATION
- DH ELECTRO./MAG DOOR HOLD OPEN
- ELR END OF LINE RESISTOR
- FS FIRE ALARM FLOW SWITCH
- PS FIRE ALARM PRESSURE SWITCH
- TS FIRE ALARM TAMPER SWITCH
- FAA FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- HSS HOOD SUPPRESSION SYSTEM FIRE ALARM CONTACT

TELEPHONE/COMMUNICATIONS

CEILING / WALL / FLOOR FURNITURE

X=NUMBER AND TYPE OF PORTS
- C COAXIAL PORT
- D DATA PORT
- P PHONE PORT
- W WIRELESS ACCESS POINT

- CEILING / WALL: SPEAKER
- IC INTERCOM CALL BOX
- EC ENTRANCE CALL SYSTEM
- B BELL
- M MICROPHONE JACK
- PS POWER SUPPLY
- WG REQUIRES WIRE GUARD
- NURSE NURSE CALL MAIN PANEL
- N NURSE CALL PULL STATION
- NURSE CALL LIGHT
- CLOCK

RACEWAY NOTES

1. MINIMUM SIZE OF RIGID CONDUIT SHALL BE 3/4".
2. MINIMUM SIZE OF FLEX CONDUIT SHALL BE 1/2".
3. MINIMUM SIZE WALL BOX IN CMU SHALL BE 4"X4".
4. MINIMUM SIZE OF UNDERGROUND CONDUIT SHALL BE 1 1/4"

WIRES

	PROPOSED	EXISTING	DEMOLISH
POWER CIRCUIT WIRING			
UNDERGROUND WIRING			
SWITCH LOOP WIRING			
UN–SWITCHED HOT WIRING			
LOW VOLTAGE WIRING			
DATA WIRING			

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REVISIONS

DATE	PROJ NUMBER	ARCH	PROJ MGR	CADD
05/09/2022	7431-22-0030	JJS	TW	SW

UPPER GREAT LAKES FAMILY HEALTH CENTER
GWINN CLINIC BASEMENT REMODEL
135 EAST STATE HWY M35, GWINN, MI 49841

GENERAL ELECTRICAL INFORMATION

SHEET E-001

DRAWING PATH: P:\7401_7500\7431220030_GwinnClinicBasementRemodel\Drawings\Arch-Int\Dwg's\2-Arch Desktop\New Facilities Project\Sheets\7431-22-0030-E-001 GENERAL ELECTRICAL INFORMATION.dwg May 06, 2022 - 3:17pm
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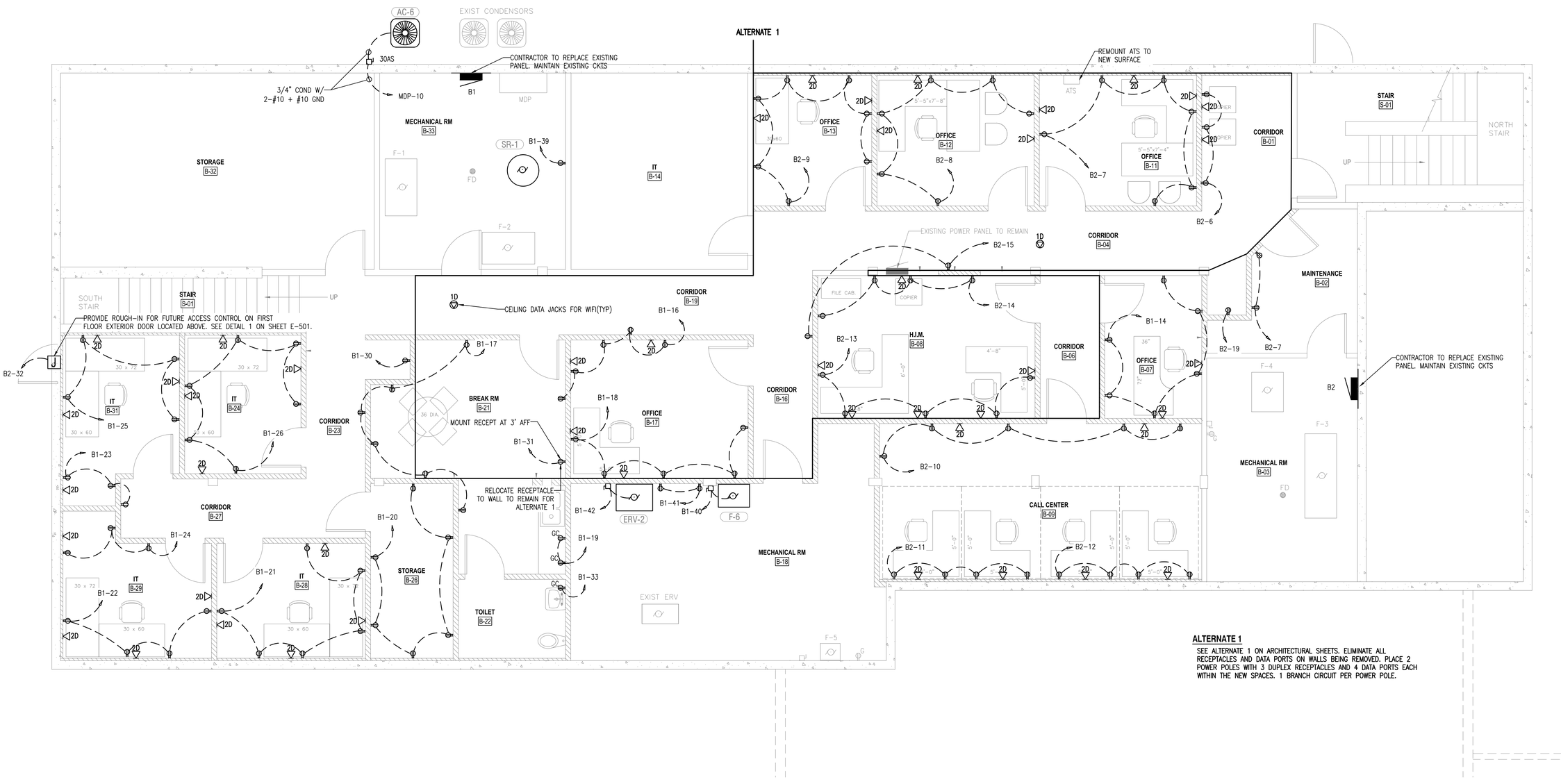

1 BASEMENT POWER AND LOW-VOLTAGE PLAN
1/4" = 1'-0"

ALTERNATE 1

SEE ALTERNATE 1 ON ARCHITECTURAL SHEETS. ELIMINATE ALL RECEPTACLES AND DATA PORTS ON WALLS BEING REMOVED. PLACE 2 POWER POLES WITH 3 DUPLEX RECEPTACLES AND 4 DATA PORTS EACH WITHIN THE NEW SPACES. 1 BRANCH CIRCUIT PER POWER POLE.

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DATE 05/06/2022
PROJ NUMBER 7431-22-0030
ARCH JG
PROJ MGR TW
CADD SW

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GWINN CLINIC BASEMENT REMODEL
135 EAST STATE HWY M35, GWINN, MI 49841

BASEMENT POWER AND LOW-VOLTAGE PLAN

SHEET E-101

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ALTERNATE 1

STORAGE B-32
MECHANICAL RM B-33
FD
IT B-14
OFFICE B-13
OFFICE B-12
OFFICE B-11
CORRIDOR B-01
STAIR S-01
NORTH STAIR
UP
EX1
B2-18
B2-17
CORRIDOR B-04
MAINTENANCE B-02
SOUTH STAIR
CORRIDOR B-19
IT B-31
IT B-24
CORRIDOR B-23
BREAK RM B-21
H.I.M. B-08
CORRIDOR B-06
OFFICE B-07
CORRIDOR B-16
OFFICE B-17
B1-29
CORRIDOR B-27
STORAGE B-26
MECHANICAL RM B-18
CALL CENTER B-09
MECHANICAL RM B-03
IT B-29
IT B-28
TOILET B-22
B1-27
B1-28
B2-16
CAT5E (TYP)
MOUNT SL1 FIXTURES 7' AFF (TYP)

ALTERNATE 1

SEE ALTERNATE 1 ON ARCHITECTURAL SHEETS. ELIMINATE LOCAL LIGHT CONTROLS WITHIN OFFICE SPACES BEING REMOVED AND OCCUPANCY SENSORS WITHIN OFFICE/HALLWAY SPACES. PLACE OCCUPANCY SENSORS WITHIN THE NEW SPACES TO CONTROL LIGHT FIXTURES.

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

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DATE 06/08/2022
PROJ NUMBER 7431-22-0030
ARCH JG
PROJ MGR TW
CADD SW

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135 EAST STATE HWY M35, GWINN, MI 49841

BASEMENT LIGHTING PLAN

SHEET E-102

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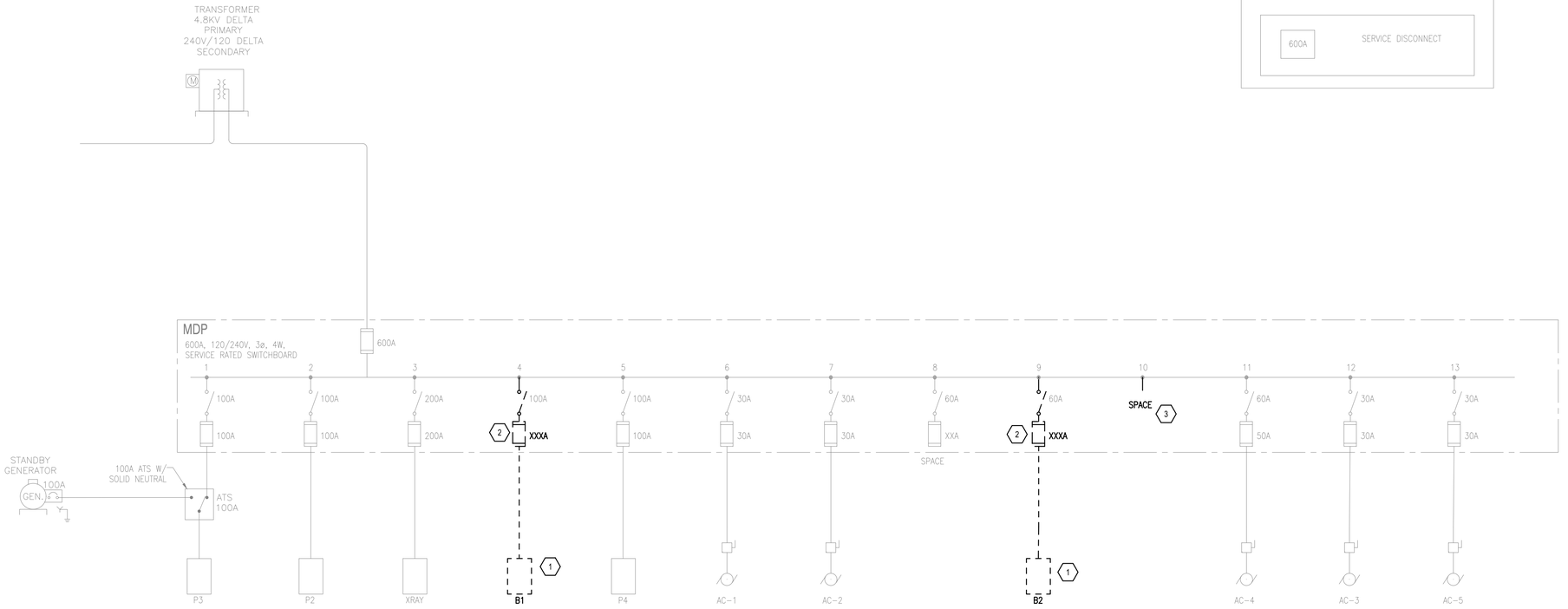
SQUARE D PANEL BOARD
MODEL# QMB-4590-326M
SERIES E1 600AMPS

100A 3P	1ST FLOOR PANEL P-3	1ST FLOOR PANEL P-2	100A 3P
200A 2P	X-RAY		
100A 3P	BASEMENT PANEL B1	1ST FLOOR PANEL P4	100A 3P
30A 3P	AC-1	AC-2	30A 3P
60A 3P	SPACE	BASEMENT PANEL B2	60A 3P
SPACE		AC-4	30A 3P
60A 3P	AC-3	AC-5	30A 3P
600A	SERVICE DISCONNECT		



ELECTRICAL DEMOLITION KEY NOTES

(#) DENOTES PLAN KEY NOTE ITEM USING NUMBERS BELOW.

1. DISCONNECT AND REMOVE PANEL AND FEEDER CONDUCTORS. SAVE BRANCH CIRCUITS AND RE-INSTALL IN NEW PANEL.
2. REMOVE AND REPLACE FUSES.
3. REMOVE BUCKET COVER TO INSTALL SWITCH AND FUSES.

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DATE	PROJ NUMBER	ARCH	PROJ MGR.	CADD
05/09/2022	7431-22-0030	JG	TW	SW

UPPER GREAT LAKES FAMILY HEALTH CENTER
GWINN CLINIC BASEMENT REMODEL
135 EAST STATE HWY M35, GWINN, MI 49841

ELECTRICAL DETAILS DEMOLITION

SHEET

ED501

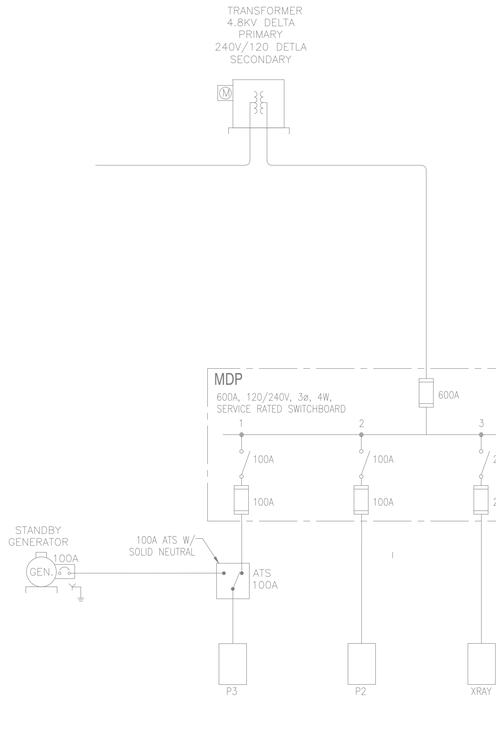
Electrical Load Calculations - Main Service - Upper Great Lakes Family Health Center - Gwinn

phase	*Description*	quantity	unit	quantity	unit	kVA		Factor	**kVA**	Amps	
1	Main Floor	7570	Ea	3.5	va	26.50		1.00	26.5	110.40	
1	Basement	4660	Ea	0.25	watt	1.17		1.00	1.2	4.85	
1			Ea		VA	0.00		1.00	0.0	0.00	
					VA	0.00		1.00	0.0	0.00	
								1.00	0.0	0.00	continuous
	New Lighting							1.00	0.0	0.00	continuous
	LC1	5		11.9	watt	0.06		0.00	0.0		
	LC2	8		6.5	watt	0.05		0.00	0.0		
	LS1/E	82		34.9	watt	2.86		0.00	0.0		
	LS2	8		45.2	watt	0.36		0.00	0.0		
	LT1/E	16		30	watt	0.48		0.00	0.0		
	LT2	31		39	watt	1.21		0.00	0.0		
	UC1	5		20	watt	0.10		0.00	0.0		
	WP1	2		79	watt	0.16		0.00	0.0		
	X1	8		4.3	watt	0.03		0.00	0.0		
	X2	6		4.3	watt	0.03		0.00	0.0		
	Remote Head	6		1.5	watt	0.01		0.00	0.0		
	WP2	10		79	watt	0.79		0.00	0.0	0.00	continuous
	New Receptacles	176		180	VA	31.68		1.00	10.0	83.33	
						21.68		0.50	10.8	45.17	
	Refrigerators	5		1600	watts	8.00		1.00	8.0	38.46	
	Dishwasher	1		1800	watts	1.80		1.00	1.8	8.65	
	AC-1	1		2300	watt	2.30		1.00	2.3	11.06	
	AC-2	1		2300	watt	2.30		1.00	2.3	11.06	
	AC-3	1		2600	watt	2.60		1.00	2.6	12.50	
	AC-4	1		2160	watt	2.16		1.00	2.2	10.38	continuous
	AC-5	1		3360	watt	3.36		1.00	3.4	16.15	continuous
	EF-1	1		80	watt	0.08		1.00	0.1	0.33	continuous
	EF-2	1		80	watt	0.08		1.00	0.1	0.33	continuous
	EF-3	1		80	watt	0.08		1.00	0.1		
	Baseboard Heater	1		1000	watt			1.00	0.0		Non-coincident load
	Baseboard Heater	1		1000	watt			1.00	0.0		Non-coincident load
	ERV-1	1		2400	watt	2.40		1.00	2.4		
	F-1 (heating and cooling)	1		1776	watt	1.78		1.00	1.8		
	F-2 (heating and cooling)	1		1776	watt	1.78		1.00	1.8		
	F-3 (heating and cooling)	1		1776	watt	1.78		1.00	1.8		
	F-4 (heating and cooling)	1		1776	watt	1.78		1.00	1.8		
	F-5 (heating and cooling)	1		1776	watt	1.78		1.00	1.8		
											non-continuous
	TOTAL kVA			connected:		**121.20**		demand	**82.54**		

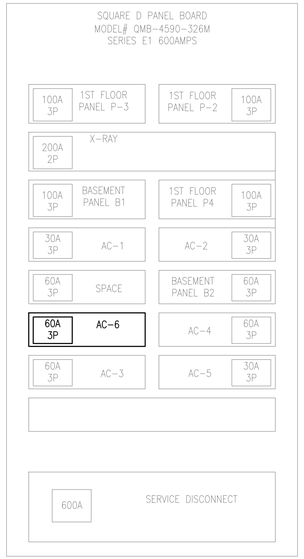
	Demand Load / phase	198.6	Amps
calks based on 240-volt, 3-phase	Continuous Load*1.25 - / phase	248	Amps
	Non-continuous Load - / phase	0	Amps
	Total Amps - each phase	**248**	Amps
	Actual Main Overcurrent Protection	**600**	Amps

Project # 7431-16-0010

5 2016 ELECTRICAL LOAD CALCULATION FOR REFERENCE
NO SCALE



3 2022 ELECTRICAL LOAD CALCULATION
NO SCALE

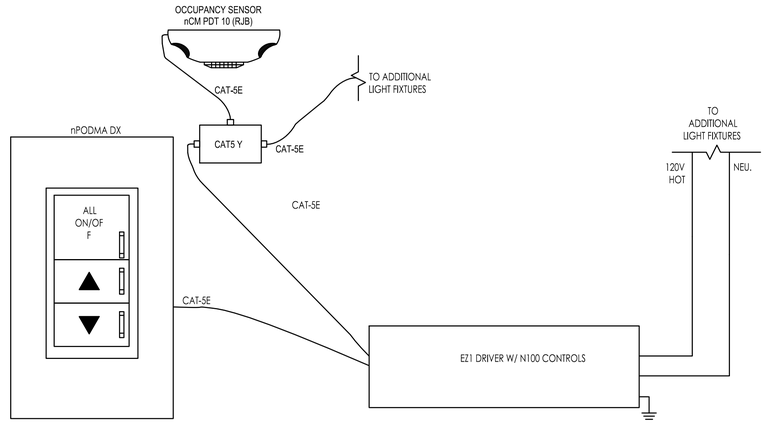


4 MDP ELEVATION
NO SCALE

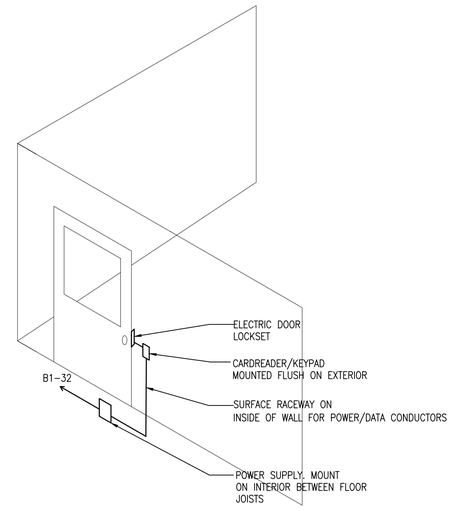
Electrical Load Calculations - Main Service - Upper Great Lakes Family Health Center - Gwinn

phase	*Description*	quantity	unit	quantity	unit	VA		Factor	**kVA**	Amps	
1	Existing load (reference from 2016 load calc)	1	Ea	82.54	kva	82.54		1.00	82.5	198.57	
1	General Lighting Loads (Office Area)-basement	4660	sqft	3.5	watt	16.31		1.00	16.3	39.24	
1			Ea		VA	0.00		1.00	0.0	0.00	
					VA	0.00		1.00	0.0	0.00	
										0.00	
1	Receptacle Outlets (first 10kva)-see NEC 220.44	125	estimate	180	VA	22.50		1.00	10.0	24.06	
1	Receptacle Outlets (remainder kva)-NEC 220.44		estimate			12.50		0.50	6.3	15.04	
										0.00	
1	Grinder Pump	1	each	1266	watts	1.27		1.00	1.3	3.05	non-continuous
1	Refrigerators	1	each	1600	watts	1.60		1.00	1.6	3.85	non-continuous
1	F-6	1	each	1056	watt	1.06		1.00	1.1	2.54	non-continuous
1	AC-6	1	each	3842	watt	3.84		1.00	3.8	9.24	non-continuous
											non-continuous
1	ERV-2	1	each	1200	watt	1.20		1.00	1.2	2.89	non-continuous
											non-continuous
	TOTAL kVA			connected:		**142.81**		demand	**124.06**		

	Demand Load / phase	298.8	Amps
calks based on 240-volt, 3-phase	Continuous Load*1.25 - / phase	98	Amps
	Non-continuous Load - / phase	220	Amps
	Total Amps - each phase	**318**	Amps
	Actual Main Overcurrent Protection	**600**	Amps



2 LIGHTING CONTROL DETAIL
NO SCALE



1 ELECTRIC STRIKE/CARD READER DETAIL
NO SCALE

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DATE 05/09/2022
PROJ NUMBER 7431-22-0030
ARCH JG
PROJ MGR TW
CADD SW

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GWINN CLINIC BASEMENT REMODEL
135 EAST STATE HWY M35, GWINN, MI 49841

ELECTRICAL DETAILS

SHEET E-501

DRAWING PATH: P:\7401_7500\7431220030_GwinnClinicBasementRemodel\Drawings\Arch+Int\Dwg\2-Arch Desktop\New Facilities Project\Sheets\ELECTRICAL\7431-22-0030-E-501 ELECTRICAL DETAILS.dwg May 06, 2022 - 3:19pm
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B1

DESCRIPTION: SURFACE MOUNT PANEL, 240/120V, 3ϕ, 4W, 225A, MLO, 20 CIRCUIT
LOCATED IN MECHANICAL RM B-33

IDENTIFICATION	KVA LOAD A	KVA LOAD B	KVA LOAD C	WIRE	POLE	AMP	CIRCUIT	CIRCUIT	AMP	POLE	WIRE	KVA LOAD C	KVA LOAD B	KVA LOAD A	IDENTIFICATION
SOUTH FURNACE 80,000 BTU	0.00			EX.	1	20	1	2	20	1	EX.	0.00			PHONE OUTLET
NORTH FURNACE 80,000 BTU		0.00		EX.	1	20	3	4	20	1	EX.		0.00		TOP OUTLET BELOW
TIME CLOCK 24V FURNACE			0.00	EX.	1	20	5	6	20	1	EX.			0.00	BASEMENT LIGHTS
LIGHTS- THIS ROOM	–			EX.	1	20	7	8	20	1	EX.	–			SPARE
HOT WATER HEATER		–		EX.	1	20	9	10	20	1	EX.		–		SPARE
OUTSIDE STORAGE SHED			–	EX.	1	20	11	12	20	1	EX.			–	MGH-OUTSIDE ROADSIGN/TIMER
SPACE							13	14							SPACE
SPACE							15	16							SPACE
SPACE							17	18							SPACE
SPACE							19	20							SPACE
CONNECTED LOAD	0.00	0.00	0.00									0.00	0.00	0.00	CONNECTED LOAD

EXISTING PANELS TO BE REPLACED

B2

DESCRIPTION: EXISTING SURFACE MOUNT PANEL, 208/120V, 1ϕ, 3W, 100A, MCB, 8 CIRCUIT
LOCATED IN MECHANICAL RM B-03

IDENTIFICATION	KVA LOAD A	KVA LOAD B	WIRE	POLE	AMP	CIRCUIT	CIRCUIT	AMP	POLE	WIRE	B	A	IDENTIFICATION
SPACE	0.00					1	2	20	1	EX.			RECEPTACLE AND TRANSFORMER
F-4 CONDENSATE PUMP RECEPT		0.00	EX.	1	20	3	4	20	1	EX.	0.00		WASTE EJECTOR
F-5 CONDENSATE PUMP RECEPT			EX.	1	20	5	6	20	1	EX.		0.00	SPARE
FURNACE	–		EX.	1	20	7	8						SPACE
CONNECTED LOAD	0.00	0.00									0.00	0.00	CONNECTED LOAD

POWER PANEL

DESCRIPTION: RECESSED PANEL, 240/120V, 3ϕ, 4W, 225A, MLO, 20 CIRCUIT
LOCATED IN CORRIDOR B-04

IDENTIFICATION	KVA LOAD A	KVA LOAD B	KVA LOAD C	WIRE	POLE	AMP	CIRCUIT	CIRCUIT	AMP	POLE	WIRE	KVA LOAD C	KVA LOAD B	KVA LOAD A	IDENTIFICATION
MAIN DISCONNECT	0.00			EX.	2	100	1	2	20	1	EX.	0.00			NURSES STP. SOUTH COUNTER
		0.00					3	4	20	1	EX.		0.00		RECEPT CARE MANAGEMENT
REC INTAKE, EXAM 4C			0.00	EX.	1	20	5	6	20	1	EX.			0.00	ATTIC LTS + REC
REC LAB	–			EX.	1	20	7	8	30	1	EX.	–			ERV
FURNACE #4		–		EX.	1	15	9	10	30	1	EX.		–		SPARE – OLD SERVER RM
FURNACE #5			–	EX.	1	15	11	12	20	1	EX.			–	SERVER QUAD OUTLETS
SERVER RM A.C.	–			EX.	3	30	13	14	20	1	EX.	–			SERVER QUAD OUTLETS
		–					15	16	30	1	EX.		–		SERVER RM 4
			–				17	18	30	2	EX.			–	SERVER RM 4
SERVER RM OUTLET	–			EX.	2	20	19	20				–			
		–					21	22	20	2	EX.		–		SERVER RM LIGHTS/FIRE SUPPRESION SYSTEM
SERVER RM 4			–	EX.	1	30	23	24						–	
CONNECTED LOAD	0.00	0.00	0.00									0.00	0.00	0.00	CONNECTED LOAD

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG #	LAMPS	WATTS	REMARKS
EX1	EXIT LIGHT	LITHONIA	LWM SW3 R 120/277 ELN	LED	1	REQUIRES UN-SWITCHED HOT
		–	–			
		–	-			
LT1	2X2 LIGHT TROFFER	LITHONIA	2BLT2 20L ADSM EZ1 LP840 N100	LED	17	REQUIRES UN-SWITCHED HOT
		–	–			
		–	-			
LT1E	2X2 LIGHT TROFFER W/ EMERGENCY OPTION	LITHONIA	2BLT2 20L ADSM EZ1 LP840 N100 EL7L	LED	17	REQUIRES UN-SWITCHED HOT
		–	–			
		–	-			
LT2	2X2 LIGHT TROFFER	LITHONIA	2BLT2 33L ADSM EZ1 LP840 N100	LED	27	REQUIRES UN-SWITCHED HOT
		–	–			
		–	-			
LT2E	2X2 LIGHT TROFFER W/ EMERGENCY OPTION	LITHONIA	2BLT2 33L ADSM EZ1 LP840 N100	LED	27	REQUIRES UN-SWITCHED HOT
		–	–			
		–	-			
LT3	2X2 LIGHT TROFFER	LITHONIA	2BLT2 40L ADSM EZ1 LP840 N100	LED	39	REQUIRES UN-SWITCHED HOT
		–	–			
		–	-			
SL1	48" STRIP LIGHT	LITHONIA	CSS L48 AL03 MVOLT 40K 80CRI HC36312	LED	28	INCLUDE 36" AIRCRAFT CABLE. MOUNT FIXTURE 7' AFF
		–	–			
		–	-			

B1

DESCRIPTION: SURFACE MOUNT PANEL , 208/120V, 3ϕ, 4W, 100A MLO, 42 CIRCUIT, 22k SCCR, LOCATED IN MECHANICAL RM B-33

IDENTIFICATION	KVA LOAD A	KVA LOAD B	KVA LOAD C	WIRE	POLE	AMP	CIRCUIT	CIRCUIT	AMP	POLE	WIRE	KVA LOAD C	KVA LOAD B	KVA LOAD A	IDENTIFICATION
SOUTH FURNACE 80,000 BTU	–			EX.	1	20	1	2	20	1	EX.	–			PHONE OUTLET
NORTH FURNACE 80,000 BTU		–		EX.	1	20	3	4	20	1	EX.		–		TOP OUTLET BELOW
TIME CLOCK 24V FURNACE			–	EX.	1	20	5	6	20	1	EX.			–	BASEMENT LIGHTS
LIGHTS- THIS ROOM	–			EX.	1	20	7	8	20	1	EX.	–			SPARE
HOT WATER HEATER		–		EX.	1	20	9	10	20	1	EX.		–		SPARE
OUTSIDE STORAGE SHED			–	EX.	1	20	11	12	20	1	EX.			–	MGH-OUTSIDE ROADSIGN/TIMER
QUAD COMP RECEPT	–			EX.	1	20	13	14	20	1	#12	.720			OFFICE B-13 RECEPTS
COMP RECEPT		–		EX.	1	30	15	16	20	1	#12		.900		OFFICE B-17 RECEPTS
BREAK RM RECEPTS			1.08	#12	1	20	17	18	20	1	#12			.900	OFFICE B-17 RECEPTS
BREAK RM COUNTERTOP RECEPTS	.360			#12	1	20	19	20	20	1	#12	1.08			STORAGE RM RECEPTS
IT B-28 RECEPTS		1.08		#12	1	20	21	22	20	1	#12		.720		IT B-29 RECEPTS
IT B-31 RECEPTS			.54	#12	1	20	23	24	20	1	#12			.540	IT B-29 RECEPTS
IT B-31 RECEPTS	.720			#12	1	20	25	26	20	1	#12	1.08			IT B-26 RECEPTS
IT LIGHTS		213		#12	1	20	27	28	20	1	#12		.270		STORAGE, BREAK RM, TOILET, OFFICE LIGHTS
CORRIDOR/EXIT LIGHTS			.270	#12	1	20	29	30	20	1	#12			.180	S. DEHUMIDIFIER/ CONDENSATE PUMP
FRIDGE	1.60			#12	1	20	31	32	20	1	#12	.360			FIRST FLOOR ACCESS CONTROL POWER
BATHROOM RECEPT		.180		#12	1	20	33	34					–		
			–				35	36						–	
	–						37	38				–			
SR-1		1.27		#12	1	20	39	40	20	1	#12		1.06		FURNACE
FURNACE + ERU-2 RECEPTS			.360	#12	1	20	41	42	20	1	#12			1.20	ERU-2
CONNECTED LOAD	2.68	2.74	2.25									3.24	2.95	2.82	CONNECTED LOAD

B2

DESCRIPTION: SURFACE MOUNT PANEL , 208/120V, 3ϕ, 4W, 60A MCB, 24 CIRCUIT, 22k SCCR, LOCATED IN MECHANICAL RM B-03

IDENTIFICATION	KVA LOAD A	KVA LOAD B	KVA LOAD C	WIRE	POLE	AMP	CIRCUIT	CIRCUIT	AMP	POLE	WIRE	KVA LOAD C	KVA LOAD B	KVA LOAD A	IDENTIFICATION
F-4 CONDENSATE PUMP RECEPT	–			EX.	1	20	1	2	20	1	EX.	–			RECEPTACLE AND TRANSFORMER
F-5 CONDENSATE PUMP RECEPT		–		EX.	1	20	3	4	20	1	EX.		–		WASTE EJECTOR
MAINTENANCE RM RECEPTS			.360	#12	1	20	5	6	20	1	#12			.540	CORRIDOR/COPIER RECEPTS
OFFICE B-11 RECEPTS	1.08			#12	1	20	7	8	20	1	#12	1.08			OFFICE B-12 RECEPTS
OFFICE B-13 RECEPTS		1.08		#12	1	20	9	10	20	1	#12		.900		CALL CENTER RECEPTS
CALL CENTER RECEPTS			.720	#12	1	20	11	12	20	1	#12			.720	CALL CENTER RECEPTS
H.I.M. RECEPTS	.900			#12	1	20	13	14	20	1	#12	.720			H.I.M. RECEPTS
HALLWAY RECEPTS		.360		#12	1	20	15	16	20	1	#12		.294		H.IM., OFFICE, CALL CENTER LIGHTS
CORRIDOR/EXIT LIGHTS			.196	#12	1	20	17	18	20	1	#12			.190	WEST OFFICE LIGHTS
N. DEHUMIDIFIER/CONDENSATE PUMP	.180			#12	1	20	19	20	20	1	#12	1.08			OFFICE B-07
		–					21	22					–		
			–				23	24						–	
CONNECTED LOAD	2.16	1.44	1.28									2.88	1.19	1.45	CONNECTED LOAD

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SEAL

REVISIONS

DATE 05/09/2022
PROJ NUMBER 7431-22-0030
ARCH JG
PROJ MGR TW
CADD SW

UPPER GREAT LAKES FAMILY HEALTH CENTER
GWINN CLINIC BASEMENT REMODEL
135 EAST STATE HWY M35, GWINN, MI 49841

ELECTRICAL SCHEDULES

SHEET E-601

DRAWING PATH: P:\7401_7500\7431220030_GwinnClinicBasementRemodel\Drawings\Arch-Int\Des\2-Arch Desktop\New Facilities Project\Sheets\ELECTRICAL\7431-22-0030-E-601 ELECTRICAL SCHEDULES.dwg May 06, 2022 - 3:19pm
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