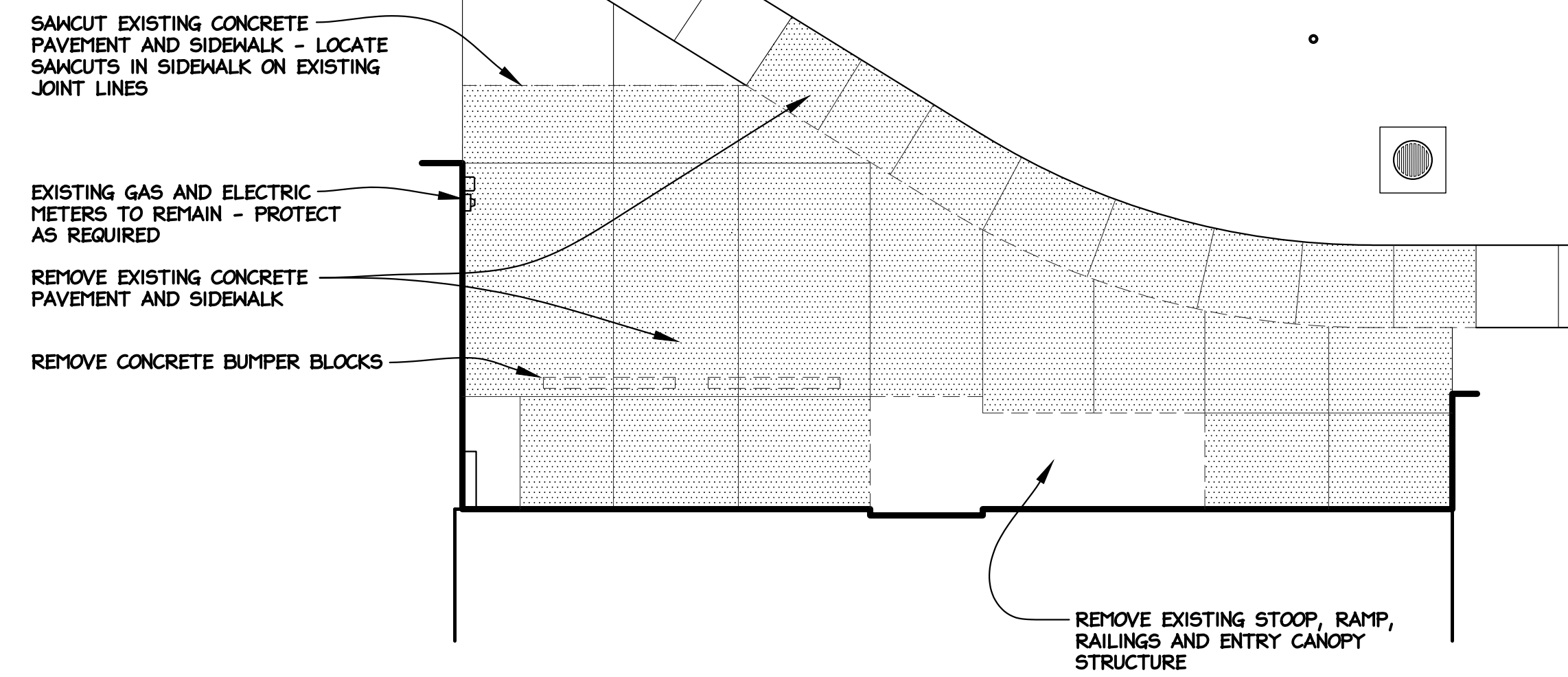


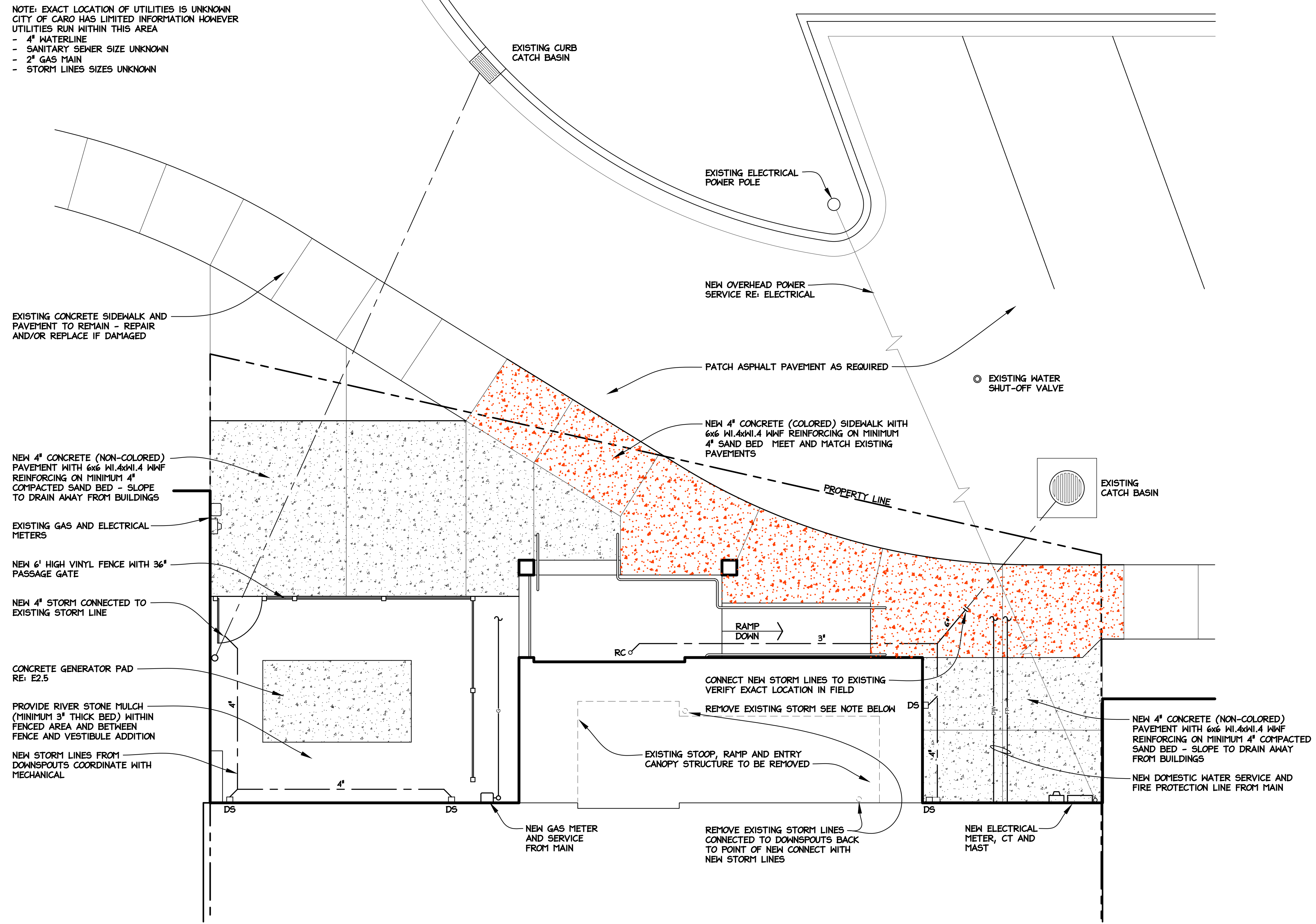
GENERAL NOTES

1. CONTRACTOR / BIDDER TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID AND/OR STARTING WORK.
2. FINISH FIRST FLOOR ELEVATION = 100'-0" (MEET AND MATCH EXISTING)
3. ALL SITE WORK IS TO BE COORDINATED WITH THE CITY OF CARO DEPARTMENT OF PUBLIC WORKS. EVERY EFFORT SHALL BE MADE TO MAINTAIN ACCESS THRU ALLEY DRIVEWAY.
4. ALL CONNECTIONS TO WATER MAIN, SANITARY AND STORM LINES SHALL BE IN STRICT COMPLIANCE WITH REQUIREMENTS OF THE CITY OF CARO AND ITS CONSULTANTS.
5. ALL NEW SURFACE PAVEMENTS AND PATCHING WORK SHALL BE IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE CITY OF CARO.
6. ALL DEMOLITION MATERIALS AND EXCAVATED SOIL MATERIAL SHALL BE REMOVED FROM SITE. NO STORAGE OF THESE MATERIALS WILL BE ALLOWED ON SITE.

NOTE: EXACT LOCATION OF UTILITIES IS UNKNOWN CITY OF CARO HAS LIMITED INFORMATION HOWEVER UTILITIES RUN WITHIN THIS AREA
 - 4" WATERLINE
 - SANITARY SINKER SIZE UNKNOWN
 - 2" GAS MAIN
 - STORM LINES SIZES UNKNOWN



REAR PARKING LOT PARTIAL
SITE DEMOLITION PLAN
 1/8" = 1'-0"



REAR PARKING LOT
PARTIAL SITE PLAN
 1/4" = 1'-0"

Seal

REV#	REVISION/DESCRIPTION	DATE	DRAWN BY	TLG	PROJECT NO.	SCALE	AS NOTED	DATE
1	OWNER'S APPROVAL	04/27/23			220240			05/26/23
2	BID DOCUMENTS	05/26/23						05/26/23

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI
PARTIAL SITE PLANS AND DETAILS

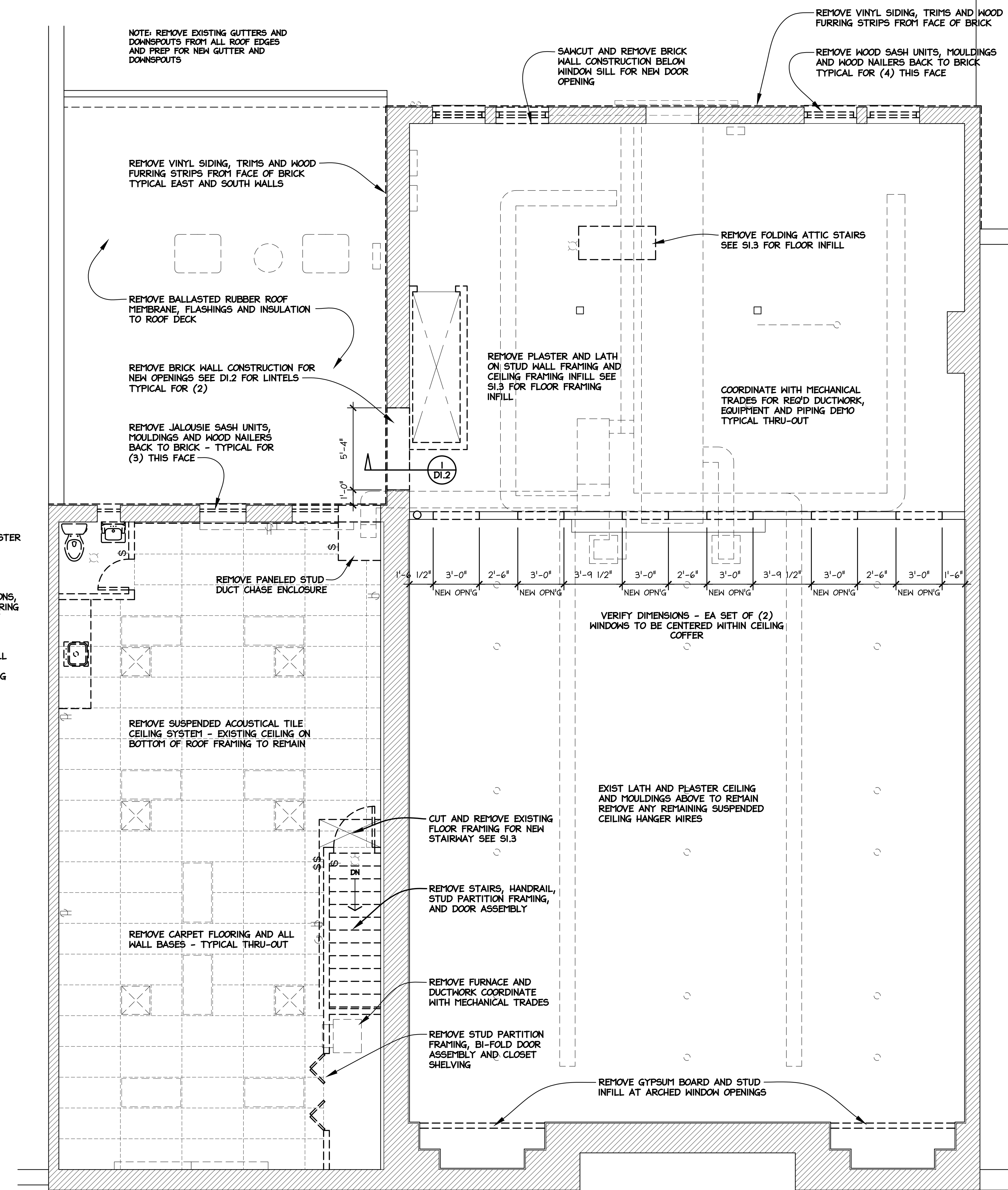
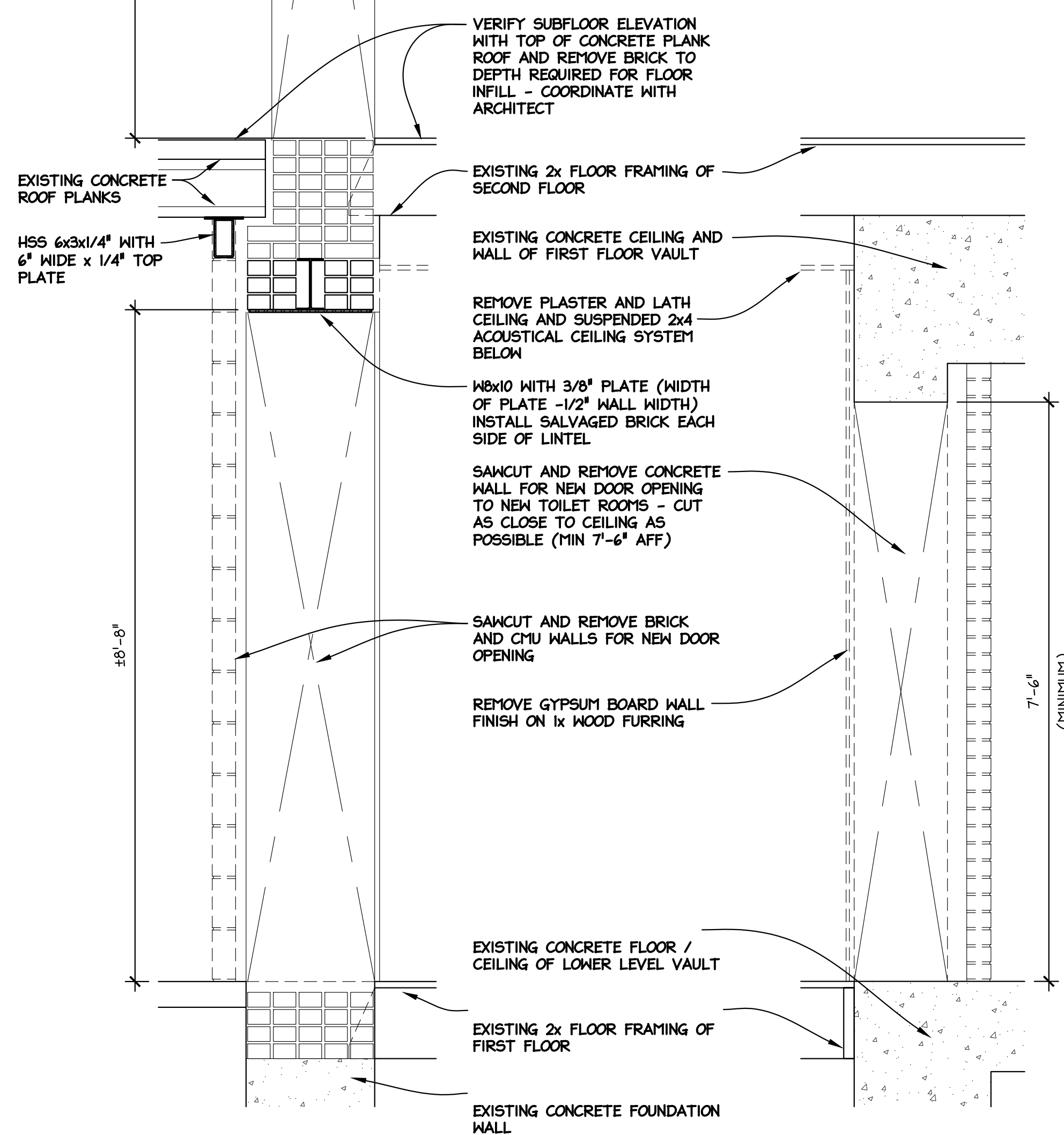
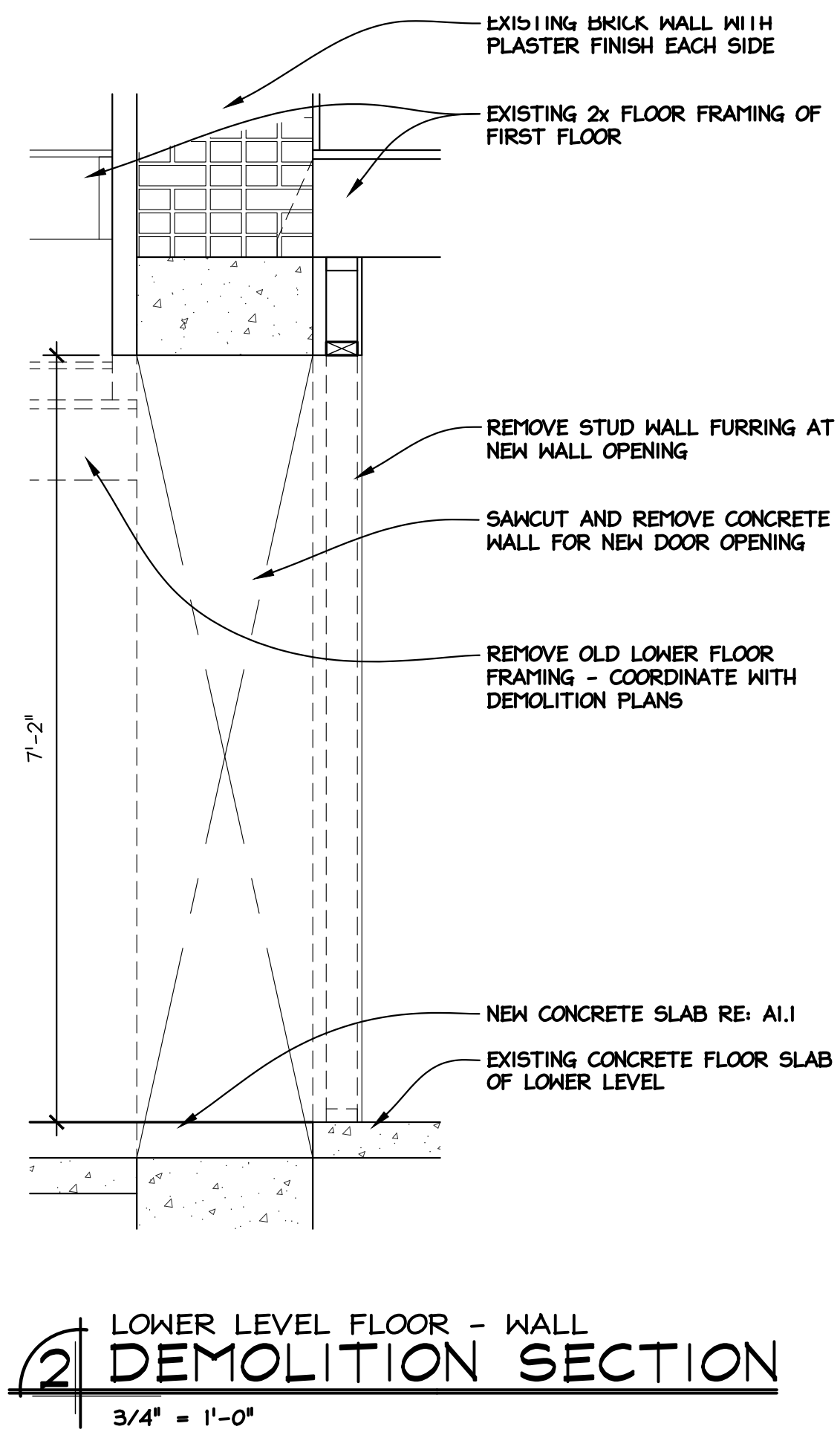
NJB ARCHITECTS INC.
 105+ Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax

www.njb-architects.com

C1.1

WALL CONSTRUCTION KEY

- EXISTING WALLS**
- CONCRETE
 - BRICK
 - CMU
 - STUD / FURRING OR UNKNOWN



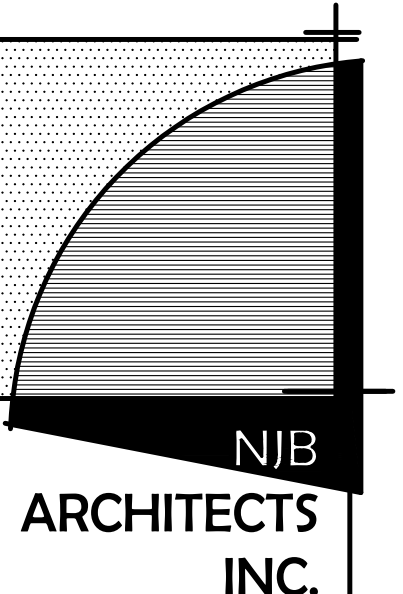
Seal

REV#	REVISION/DESCRIPTION	DATE	DRAWN BY	DATE	SCALE	AS NOTED
1	OWNER'S APPROVAL	04/27/23	LD			
2	BID DOCUMENTS	05/26/23	LD			

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES

171 N STATE ST
CARO, MI

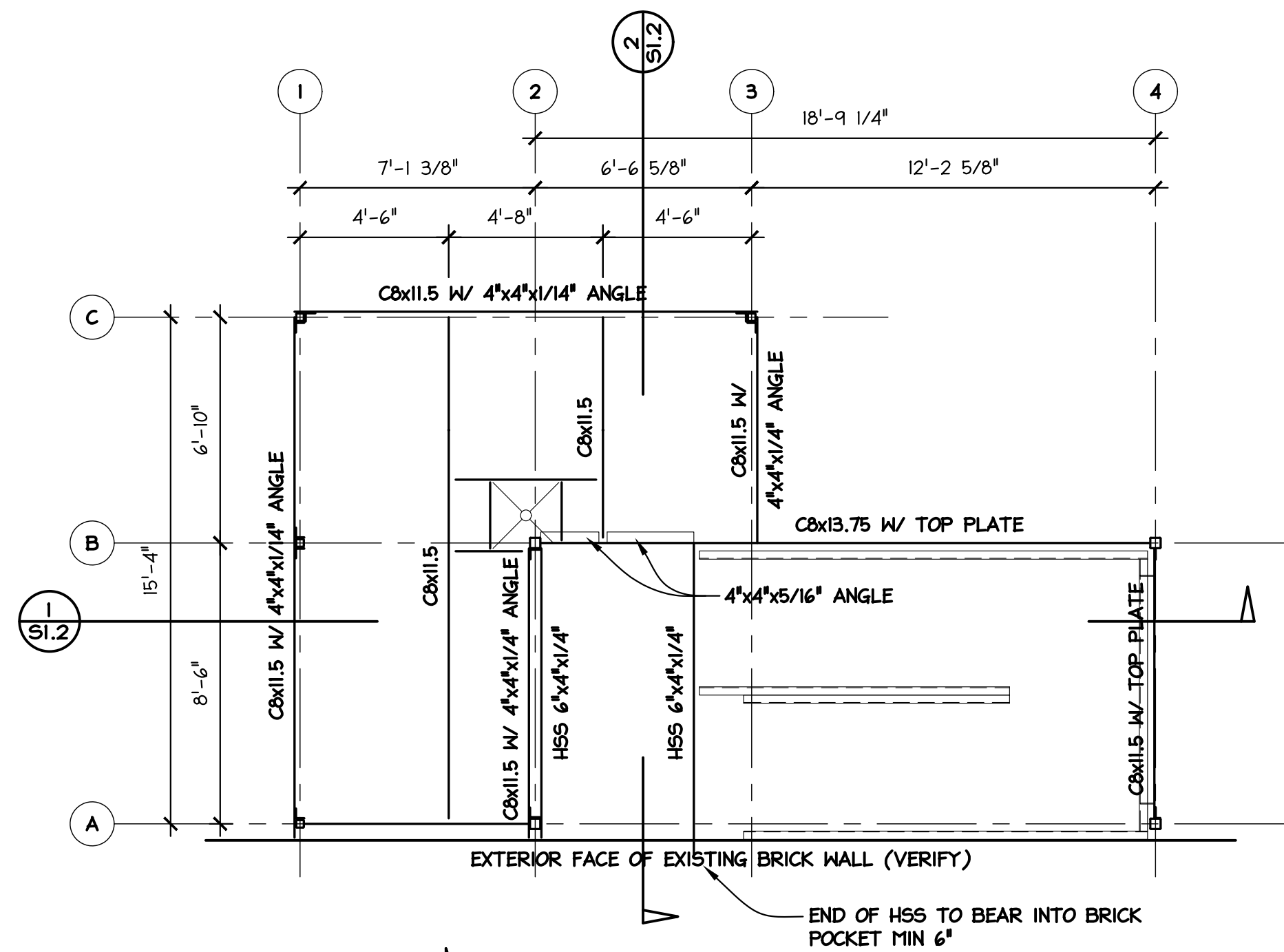
SECOND FLOOR DEMOLITION PLAN



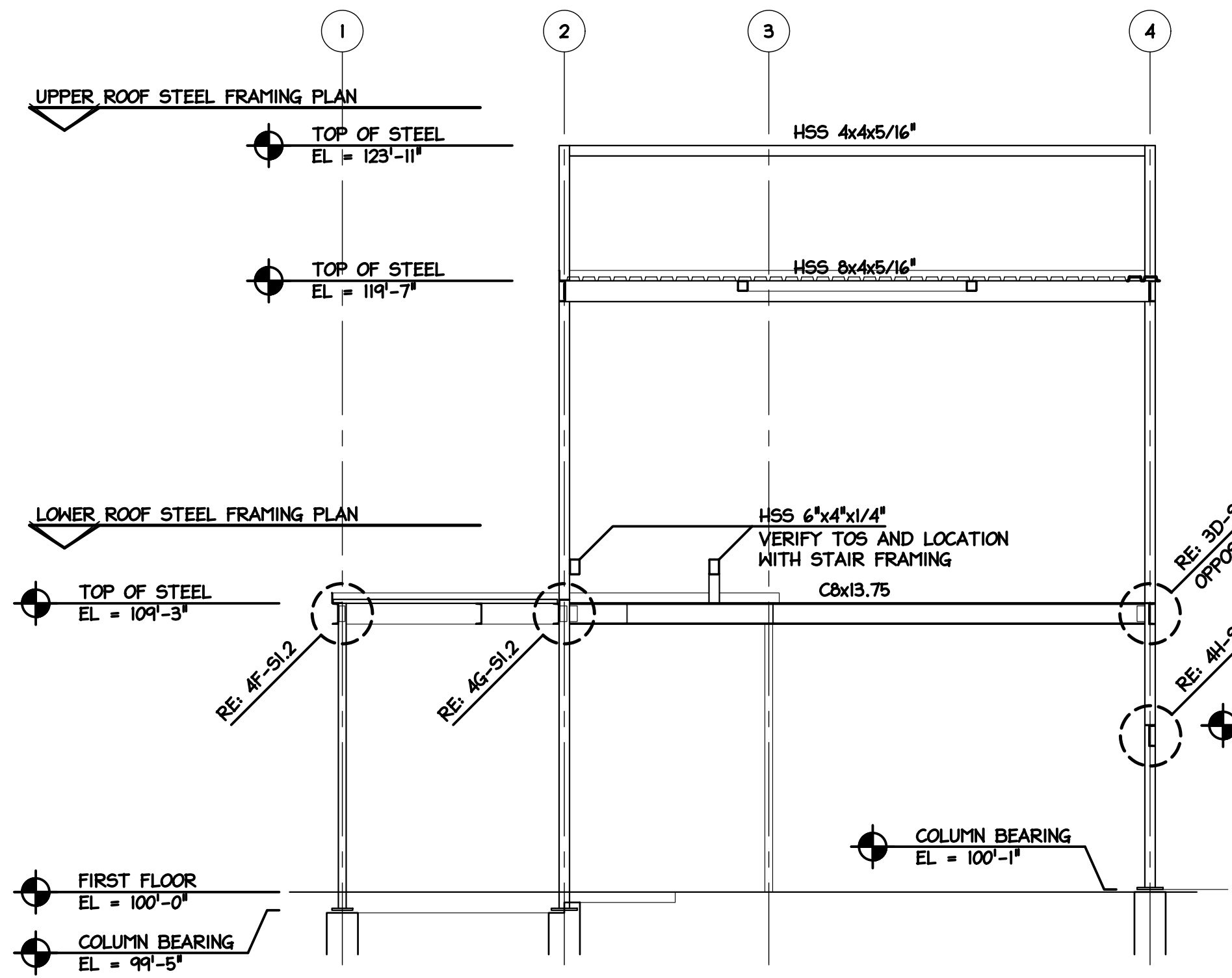
105+ Main Street
Flushing, Michigan 48433
810-659-7118 voice
810-659-7224 fax

www.njib-architects.com

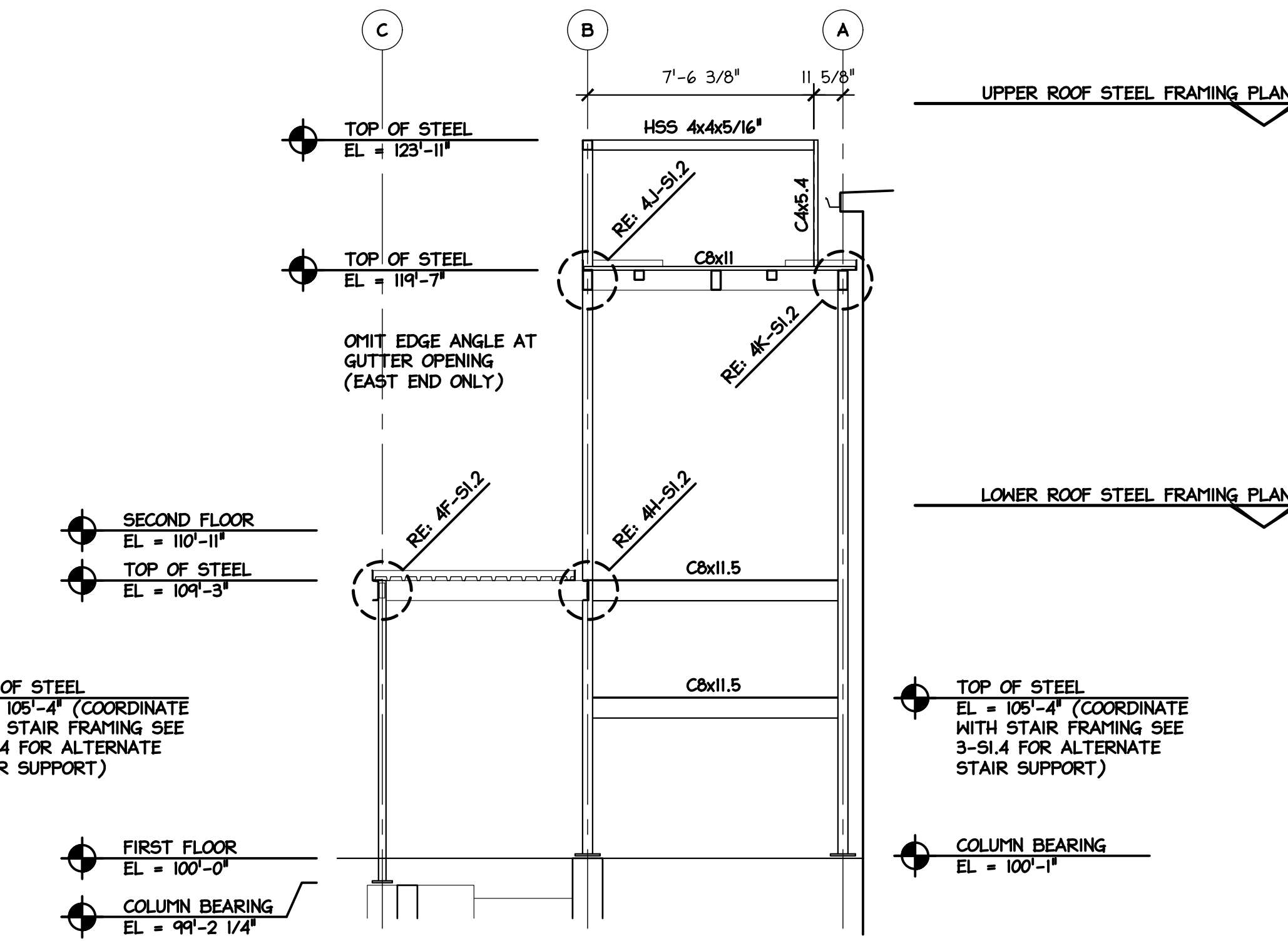
D1.2



LOWER ROOF STEEL FRAMING PLAN
1/4" = 1'-0"



NORTH / SOUTH SECTION STEEL FRAMING ELEVATION
1/4" = 1'-0"

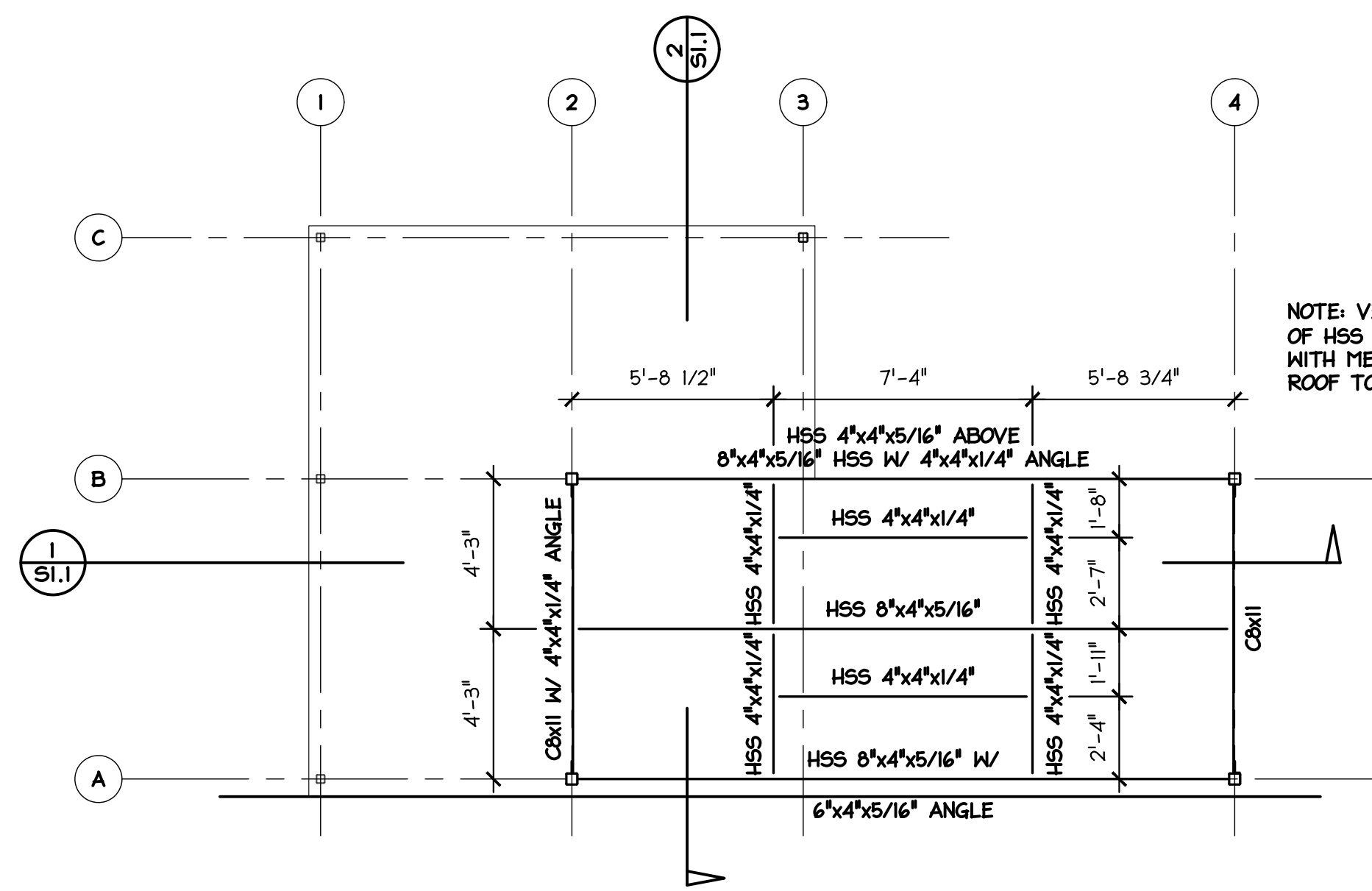


EAST / WEST SECTION STEEL FRAMING ELEVATION
1/4" = 1'-0"

STRUCTURAL DESIGN

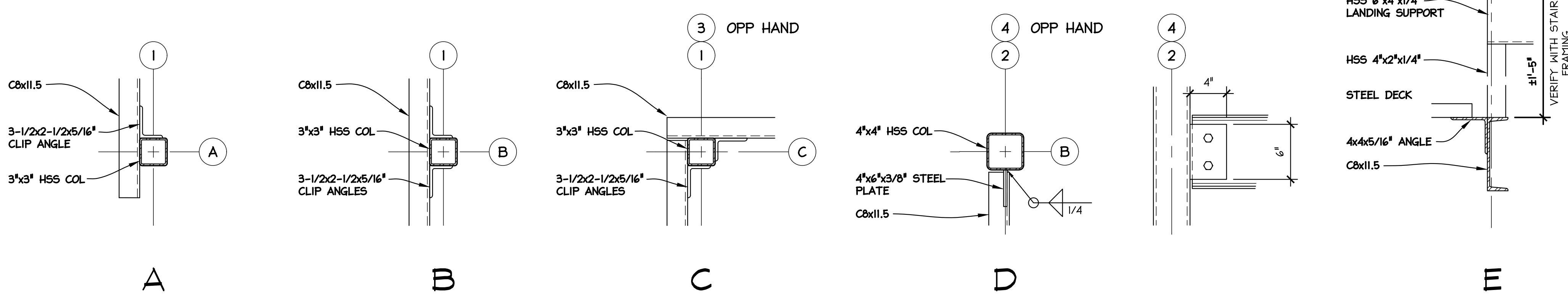
ROOF LIVE LOAD: 60 PSF
ROOF DEAD LOAD: 20 PSF
ROOF TOTAL LOAD: 80 PSF

SNOW ZONE: 30 PSF
WIND ZONE: 20 MPH
WIND EXPOSURE: CATEGORY B
SEISMIC: Ss=10 S1=4

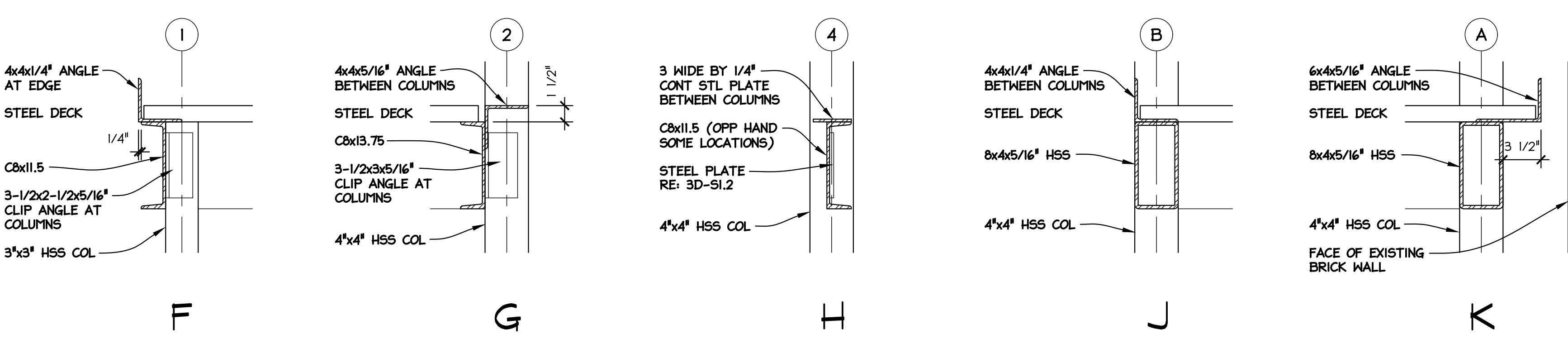


LOWER ROOF STEEL FRAMING PLAN
1/4" = 1'-0"

NOTE: VERIFY EXACT LOCATIONS OF HSS 4"x4" FRAMING MEMBERS WITH MECHANICAL TRADES FOR ROOF TOP UNIT CURB DIMENSIONS



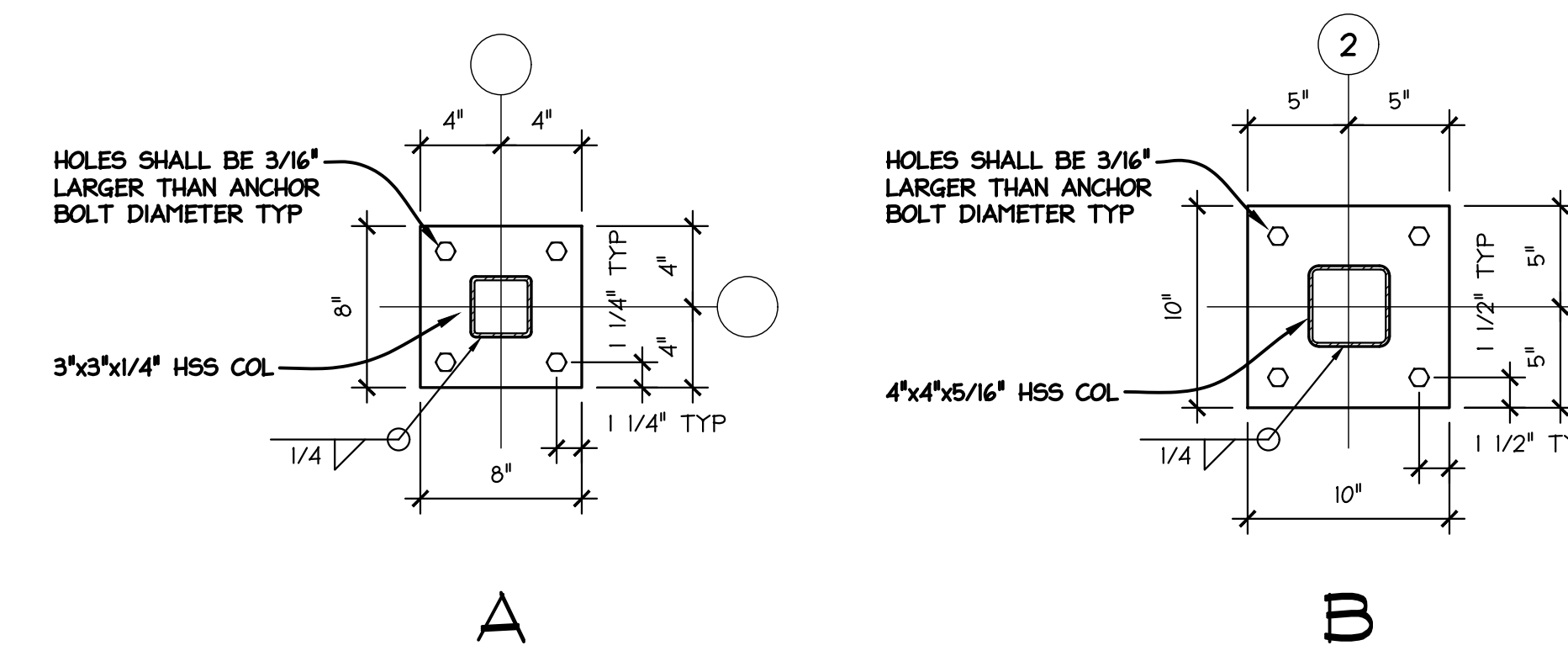
STEEL FRAMING DETAILS
1-1/2" = 1'-0"



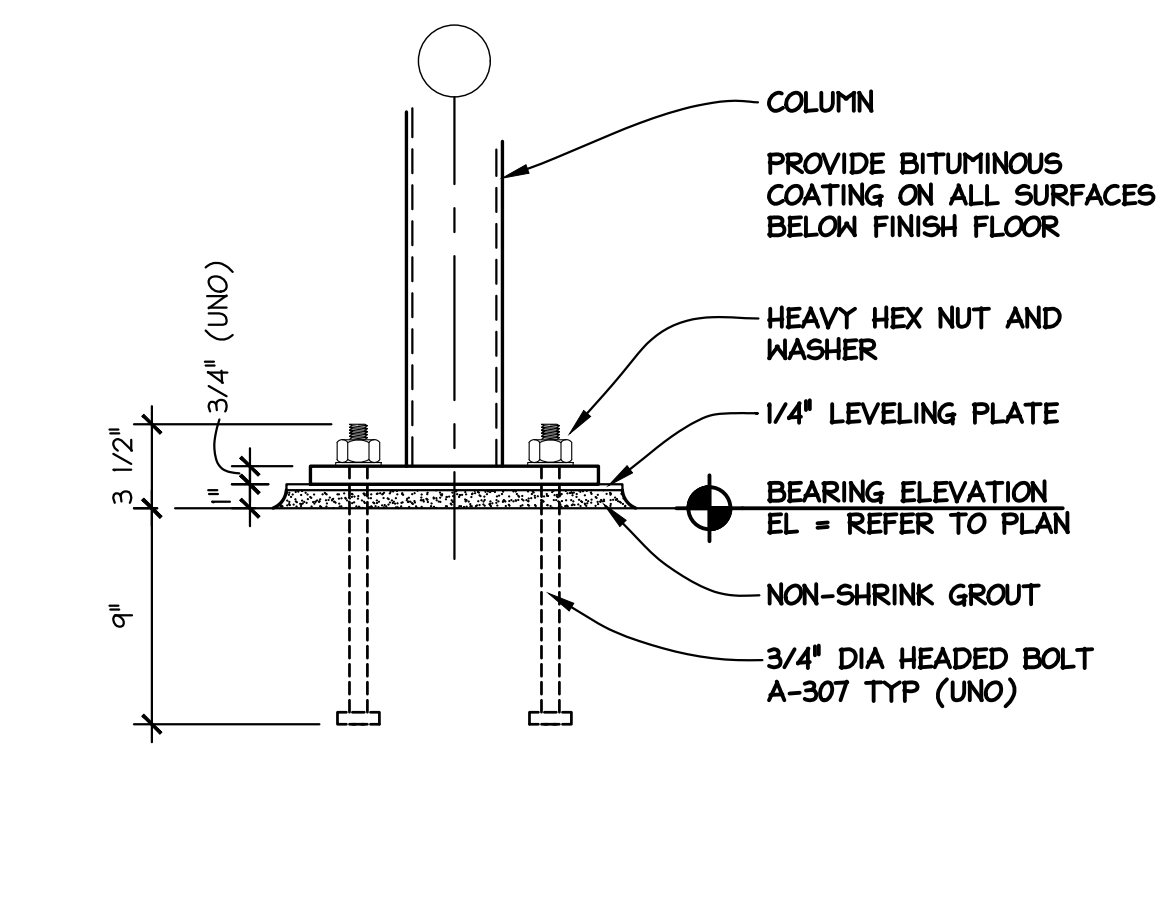
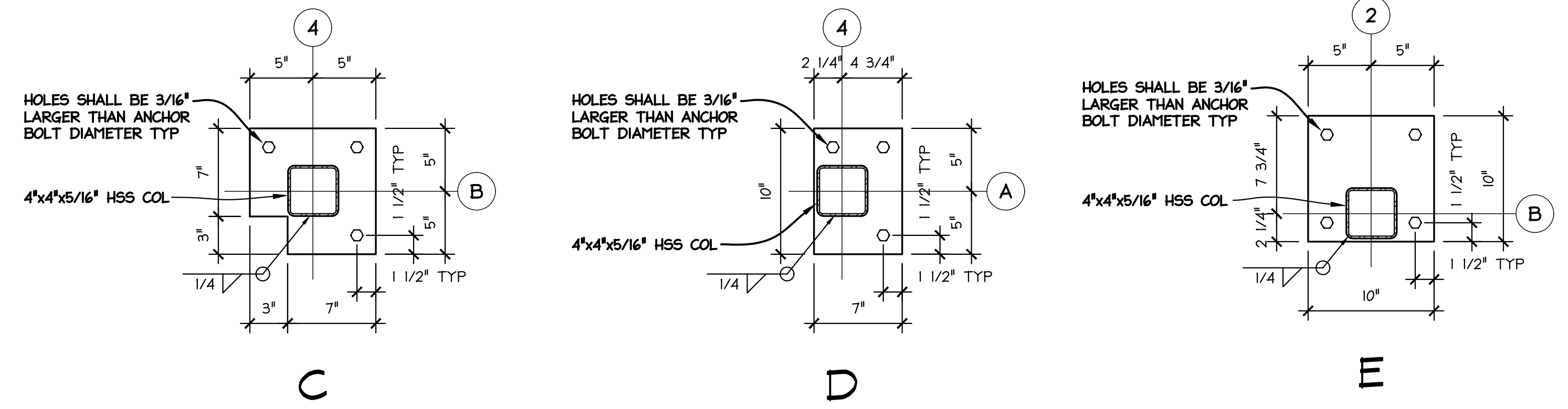
STEEL FRAMING DETAILS
1-1/2" = 1'-0"

COLUMN SCHEDULE						
MARK	COLUMN SIZE	TOP ELEVATION	BEARING ELEVATION	TOP PLATE	BEARING PLATE	TYPE
A-1	3x3x1/4" HSS	109'-3"	99'-5"	3/8" CAP	6x6x3/4"	5A-S1.2
A-2	4x4x5/16" HSS	119'-7"	99'-5"	3/8" CAP	10x10x3/4"	5B-S1.2
A-4	4x4x5/16" HSS	119'-7"	100'-1"	3/8" CAP	7x10x3/4"	5D-S1.2
B-1	3x3x1/4" HSS	109'-3"	99'-5"	3/8" CAP	6x6x3/4"	5A-S1.2
B-2	4x4x5/16" HSS	123'-11"	99'-5"	3/8" CAP	10x10x3/4"	5E-S1.2
B-4	4x4x5/16" HSS	123'-11"	100'-1"	3/8" CAP	10x10x3/4"	5C-S1.2
C-1	3x3x1/4" HSS	109'-3"	99'-2 1/4"	3/8" CAP	6x6x3/4"	5A-S1.2
C-3	3x3x1/4" HSS	109'-3"	99'-2 1/4"	3/8" CAP	6x6x3/4"	5A-S1.2

NOTE: FIELD VERIFY AND REVIEW EXISTING WALL CONDITIONS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO FABRICATION OF ANY BUILT-UP OR LOOSE LINTELS



COLUMN BASE PLATES
1-1/2" = 1'-0"



TYPICAL COLUMN BASE PLATE SECTION
1-1/2" = 1'-0"

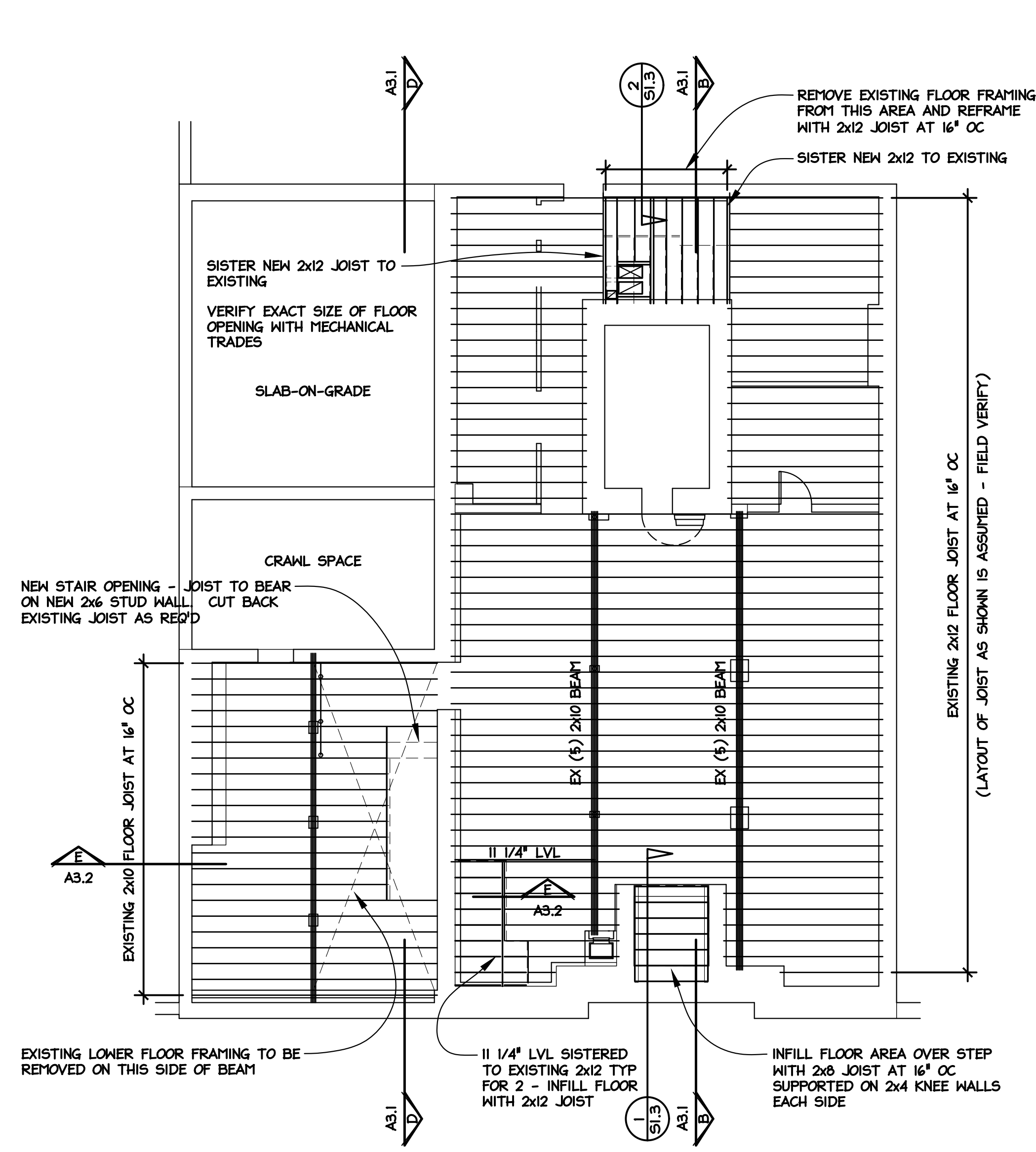
REV#	REVISION/DESCRIPTION	DATE	DRAWN BY	SCALE	AS NOTED
1	OWNERS APPROVAL	04/27/23	LD	PROJECT NO. 220240	DATE 05/26/23
2	BID DOCUMENTS	05/26/23		CAD FILE S102	

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
171 N STATE ST
CARO, MI

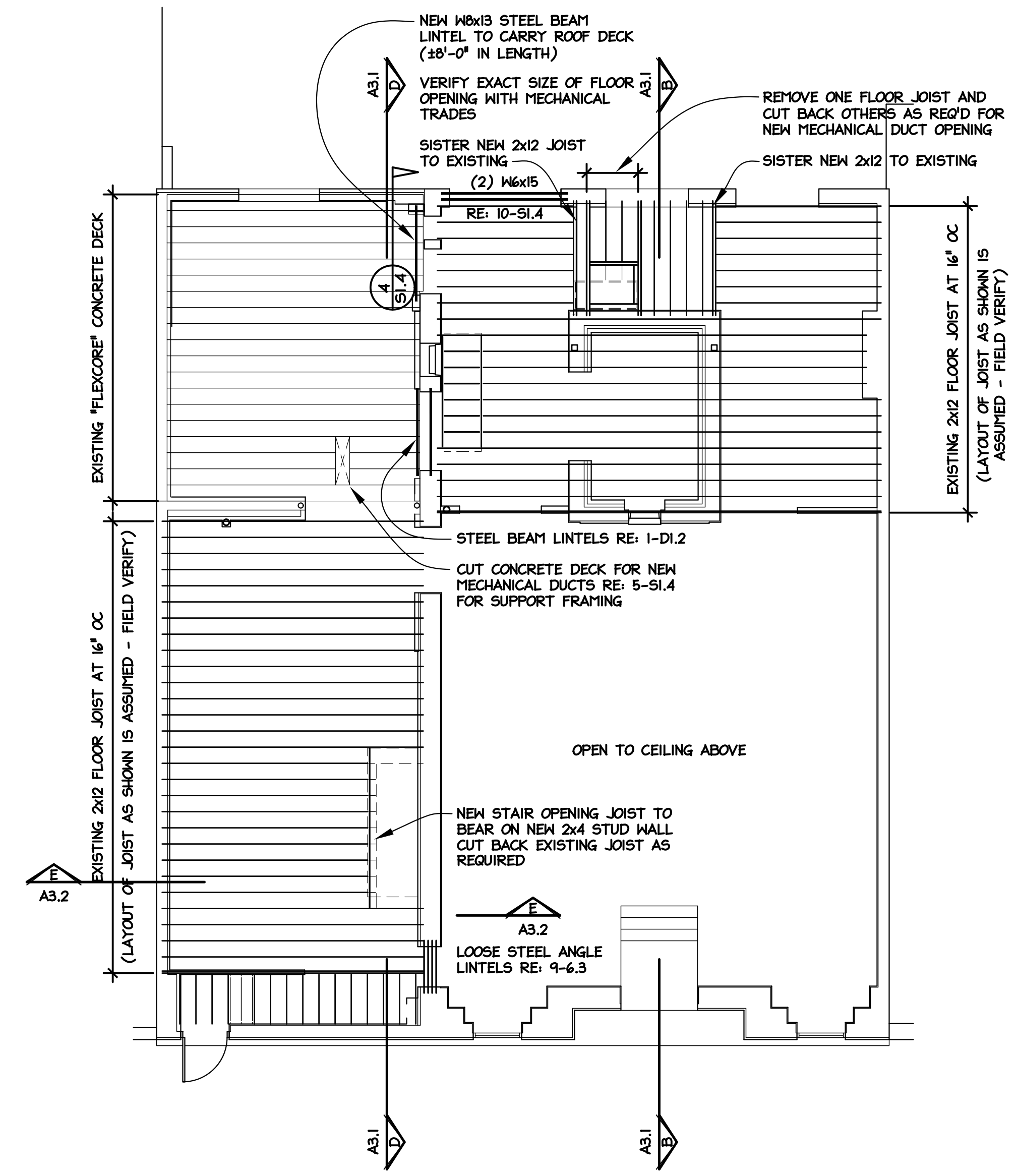
STEEL FRAMING PLANS AND DETAILS

NJB ARCHITECTS INC.
105+ Main Street
Flushing, Michigan 48433
810-659-7118 voice
810-659-7224 fax
www.njb-architects.com

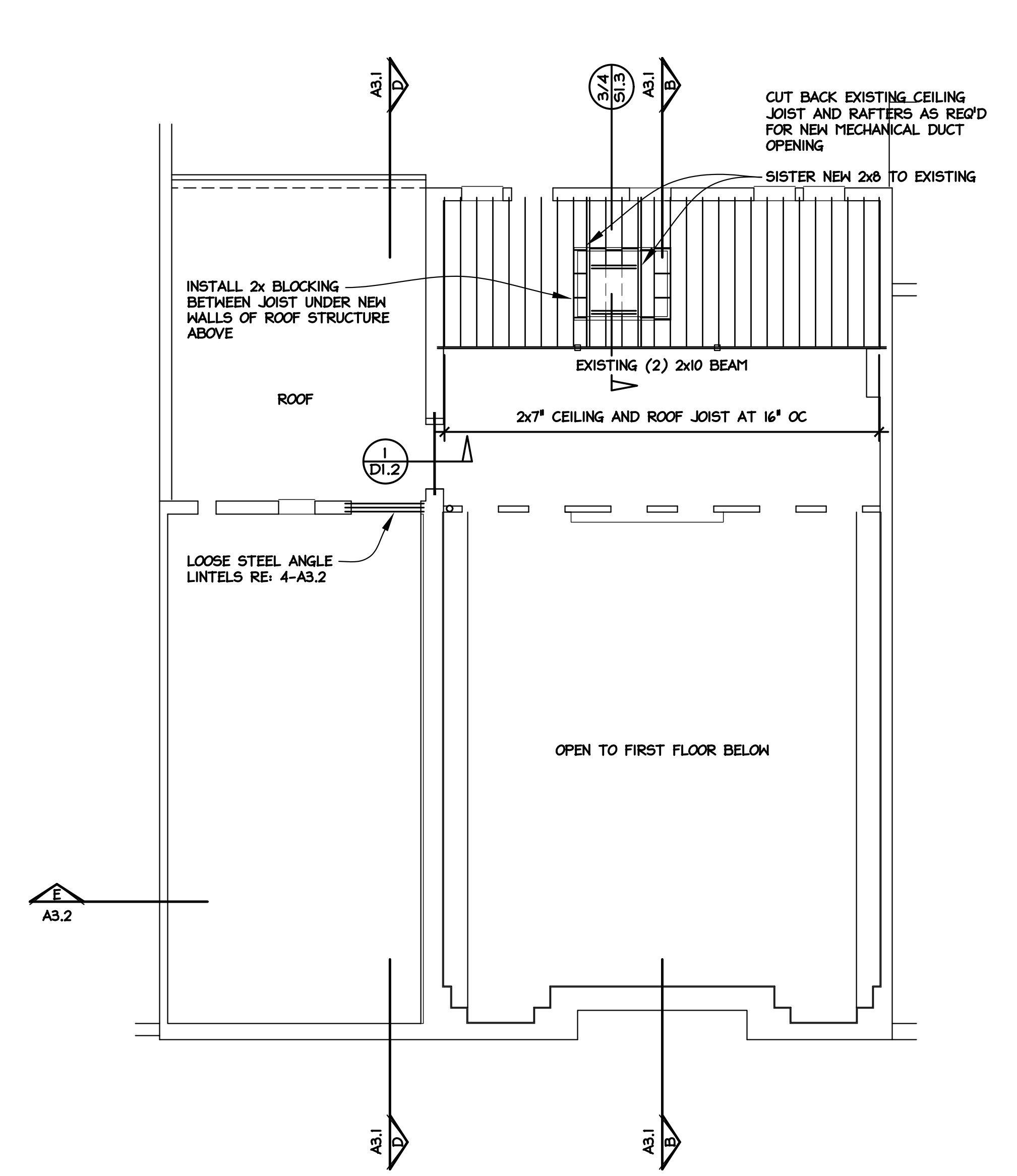
S1.2



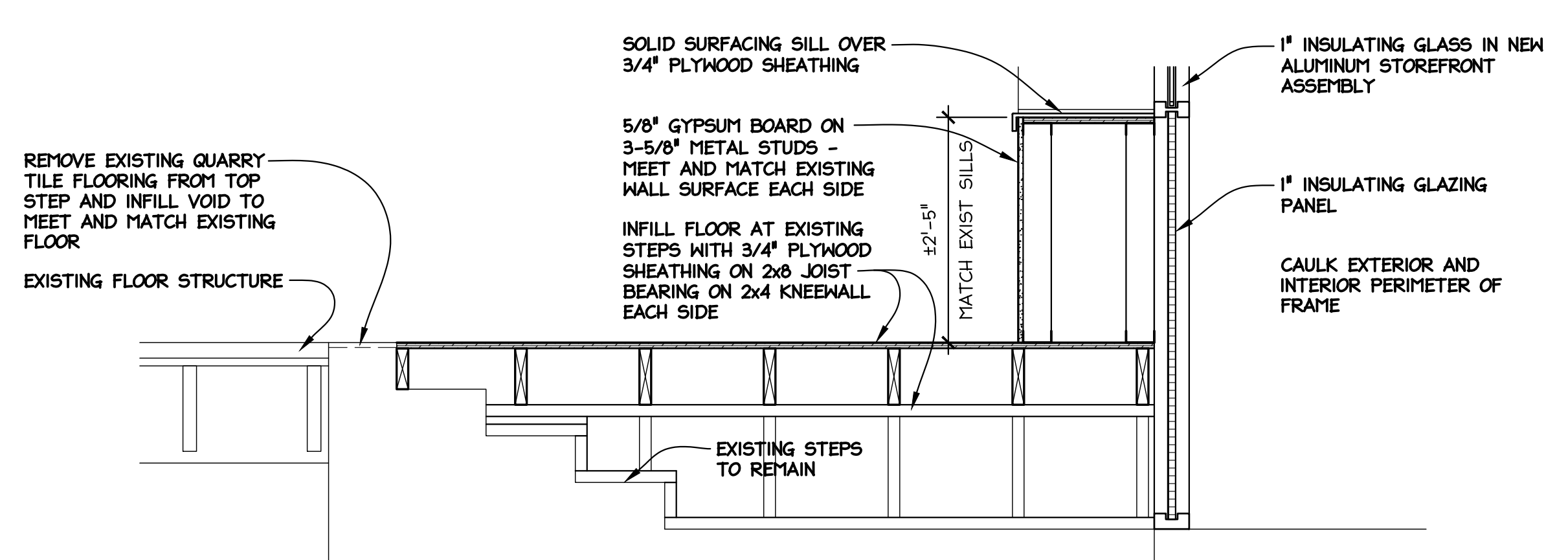
FIRST FLOOR FRAMING MODIFICATION PLAN
 1/8" = 1'-0"



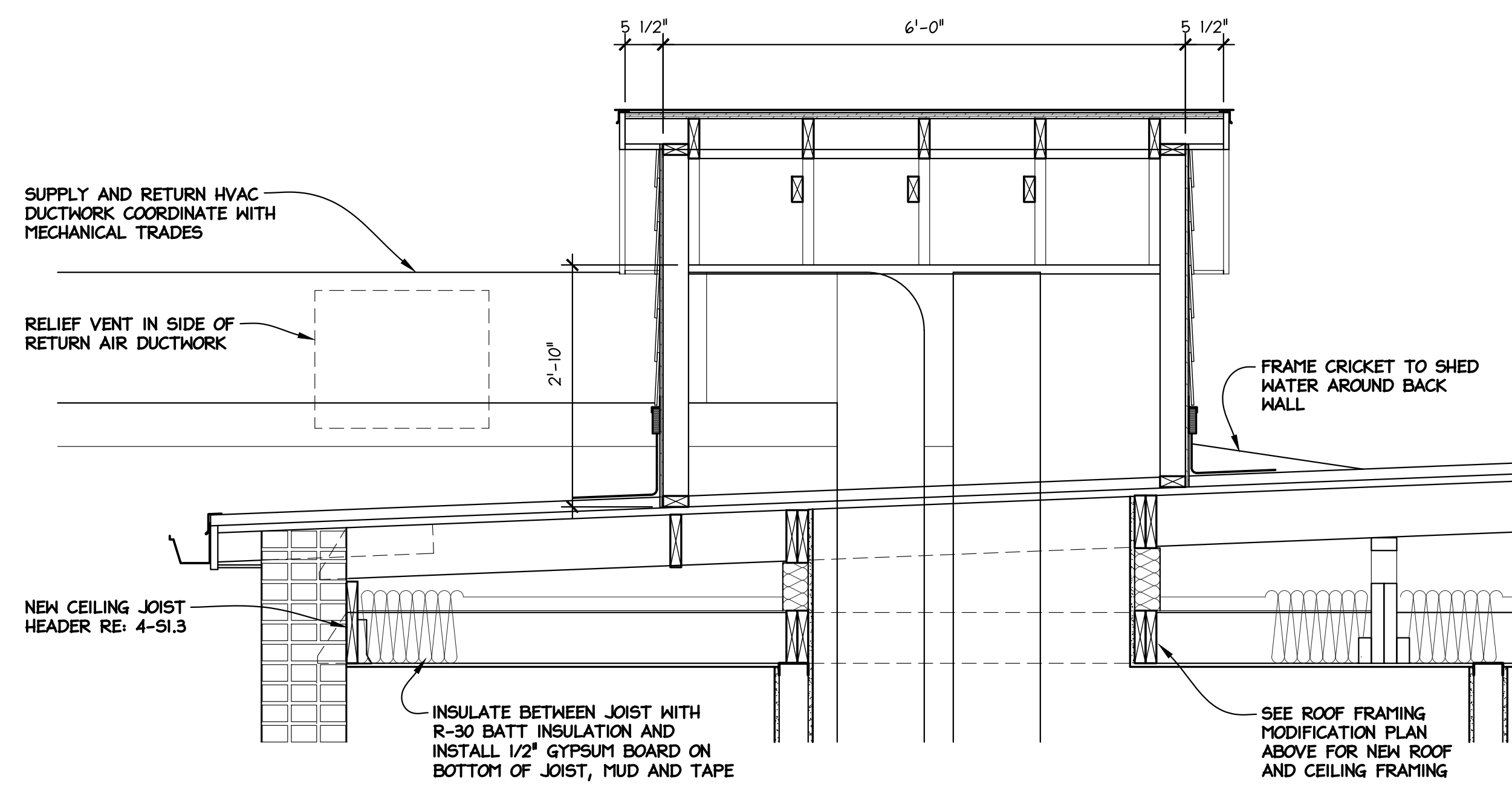
SECOND FLOOR FRAMING MODIFICATION PLAN
 1/8" = 1'-0"



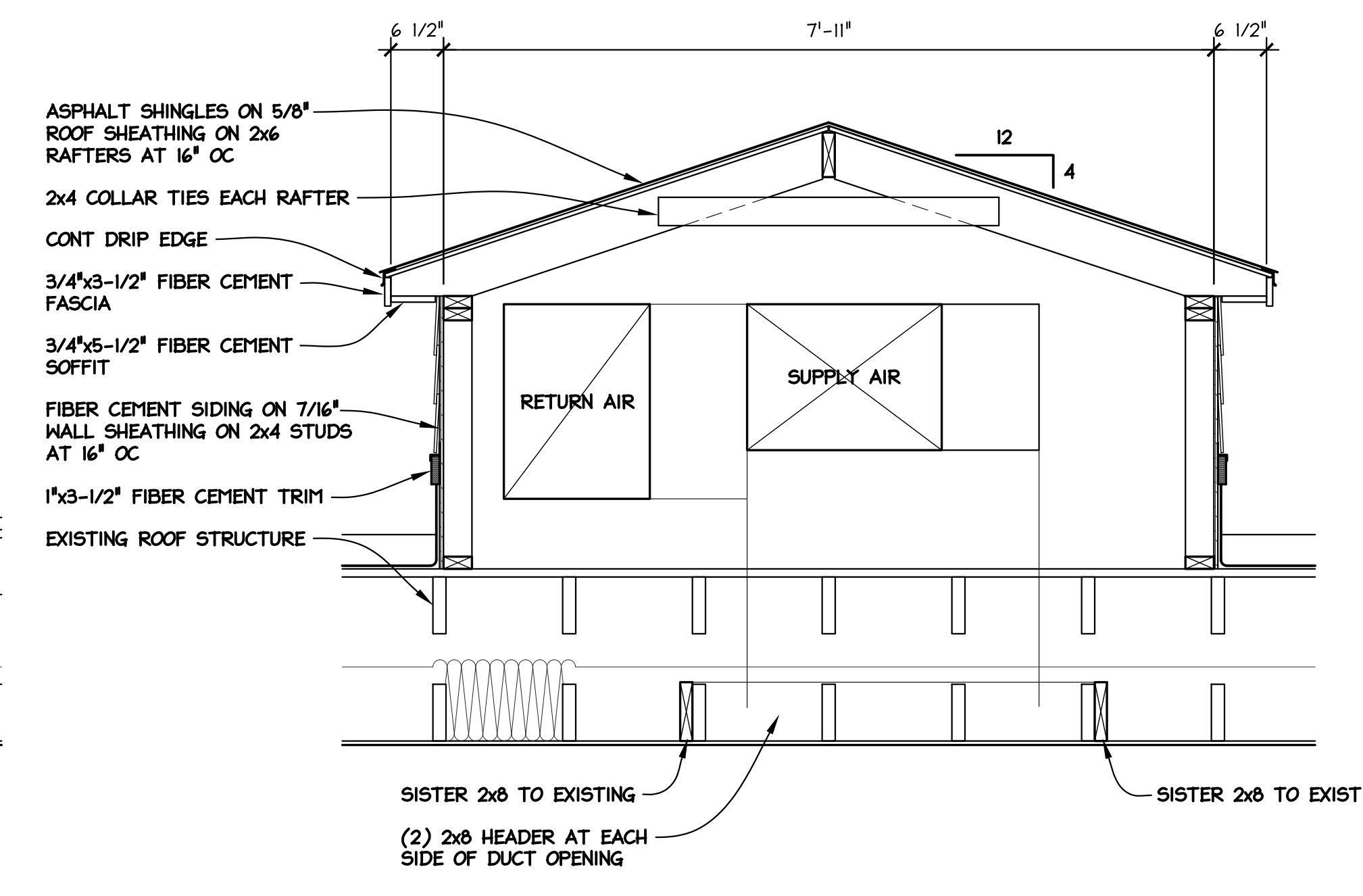
ROOF FRAMING MODIFICATION PLAN
 1/8" = 1'-0"



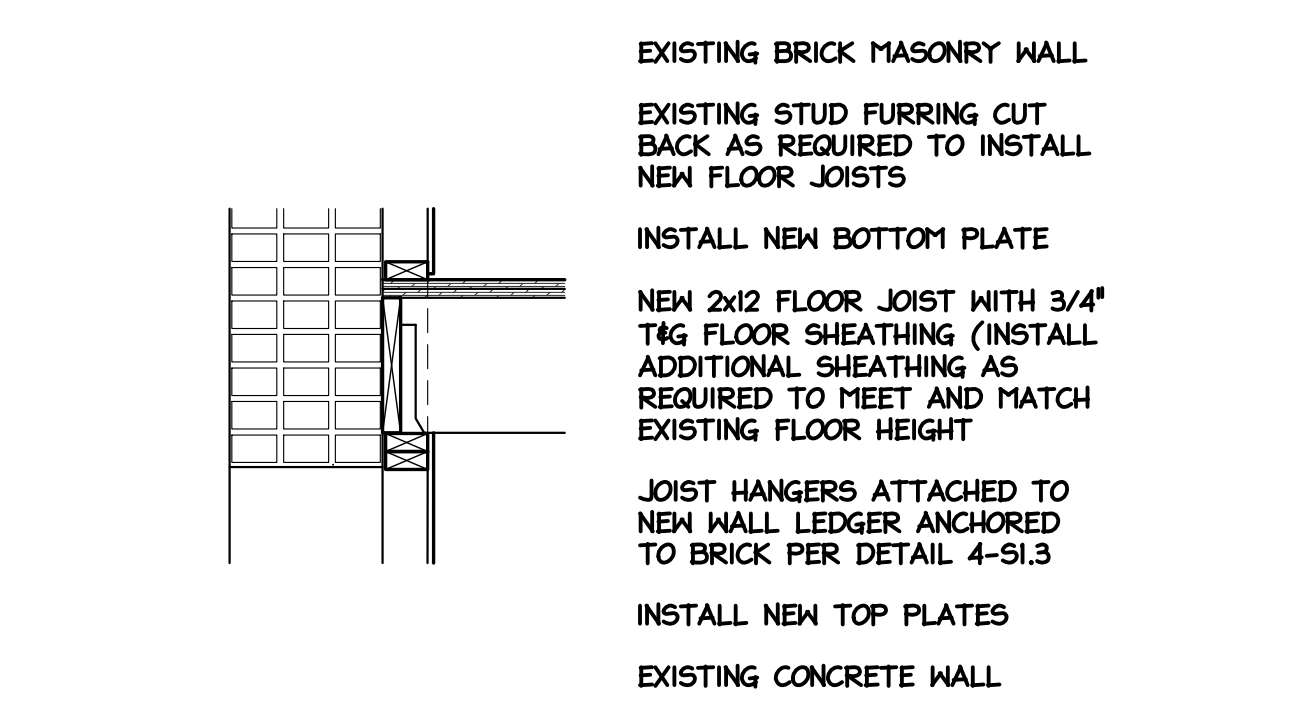
COURTROOM / TRAINING ROOM 104 FLOOR INFILL SECTION
 3/4" = 1'-0"



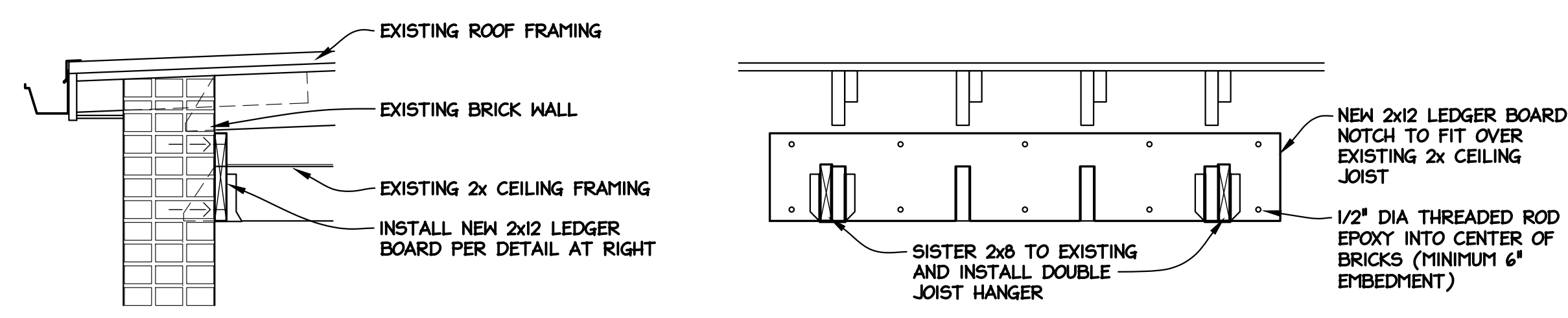
ROOF / CEILING JOIST REINFORCEMENT SECTION 3
 3/4" = 1'-0"



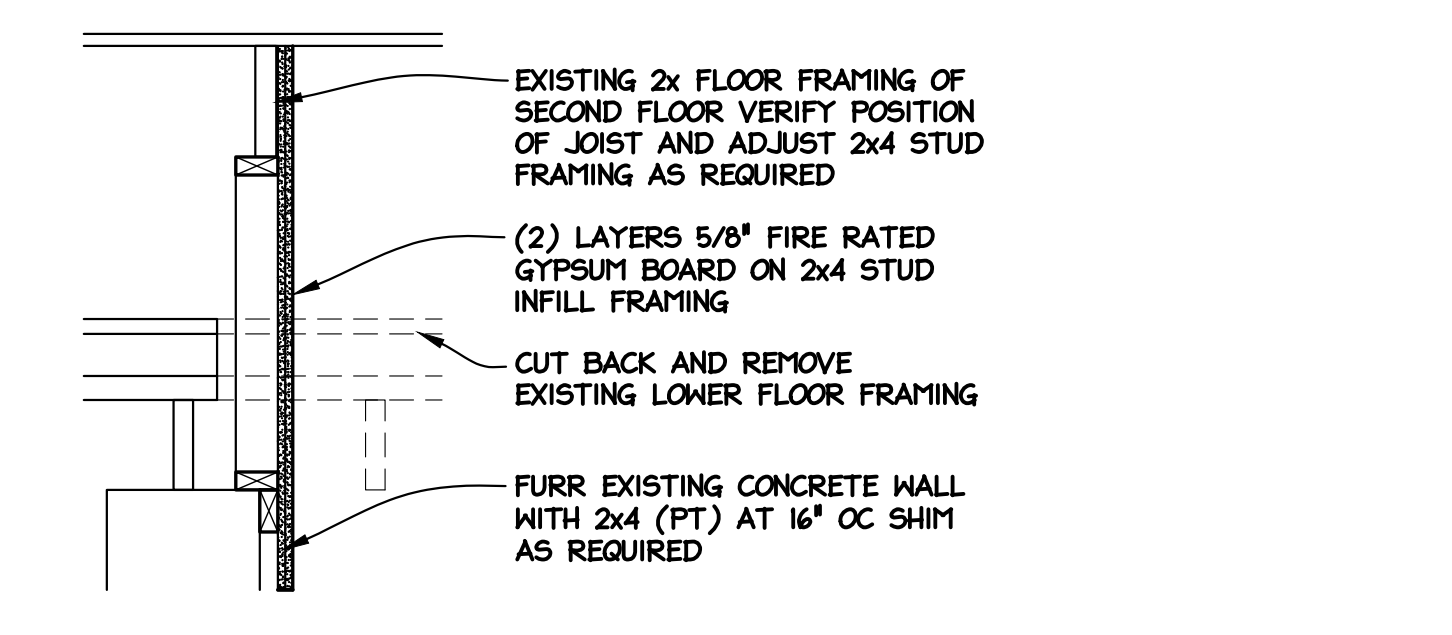
ROOF / CEILING JOIST REINFORCEMENT SECTION 5
 3/4" = 1'-0"



FIRST FLOOR JANITOR CLOSET 102 AREA FLOOR INFILL SECTION
 3/4" = 1'-0"



ROOF / CEILING JOIST REINFORCEMENT SECTION 4
 3/4" = 1'-0"



ROOF / CEILING JOIST REINFORCEMENT SECTION 6
 3/4" = 1'-0"

REV #	REVISION/SUBMISSION	DATE	DRAWN BY	SCALE	AS NOTED
1	OWNER'S APPROVAL	04/27/23	TLC		
2	BID DOCUMENTS	05/26/23	LAD	PROJECT NO. 22240	CAD FILE S103
					DATE 05/26/23

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI

NJB ARCHITECTS INC.
 105+ Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax
 www.njb-architects.com

FRAMING MODIFICATION PLANS AND DETAILS

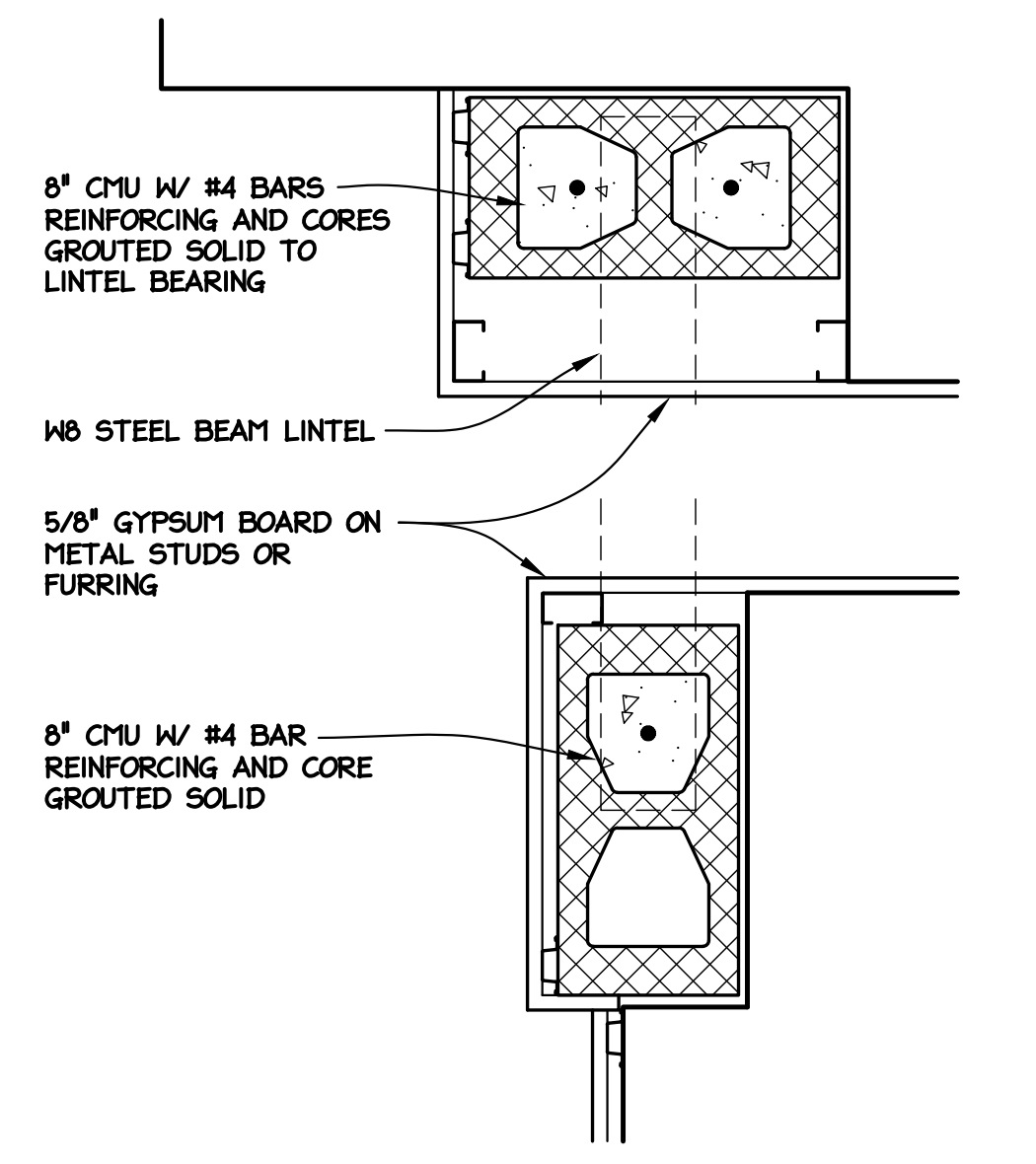
Seal

REVIEWED BY	TLG	SCALE	AS NOTED	DATE	05/26/23
DRAWN BY	LAD	PROJECT NO.	220240	CAD FILE	ST04
DATE	04/27/23	BID DOCUMENTS			
REVISION/ISSUANCE	OWNER'S APPROVAL				
REV #	1	BID DOCUMENTS			
	2				

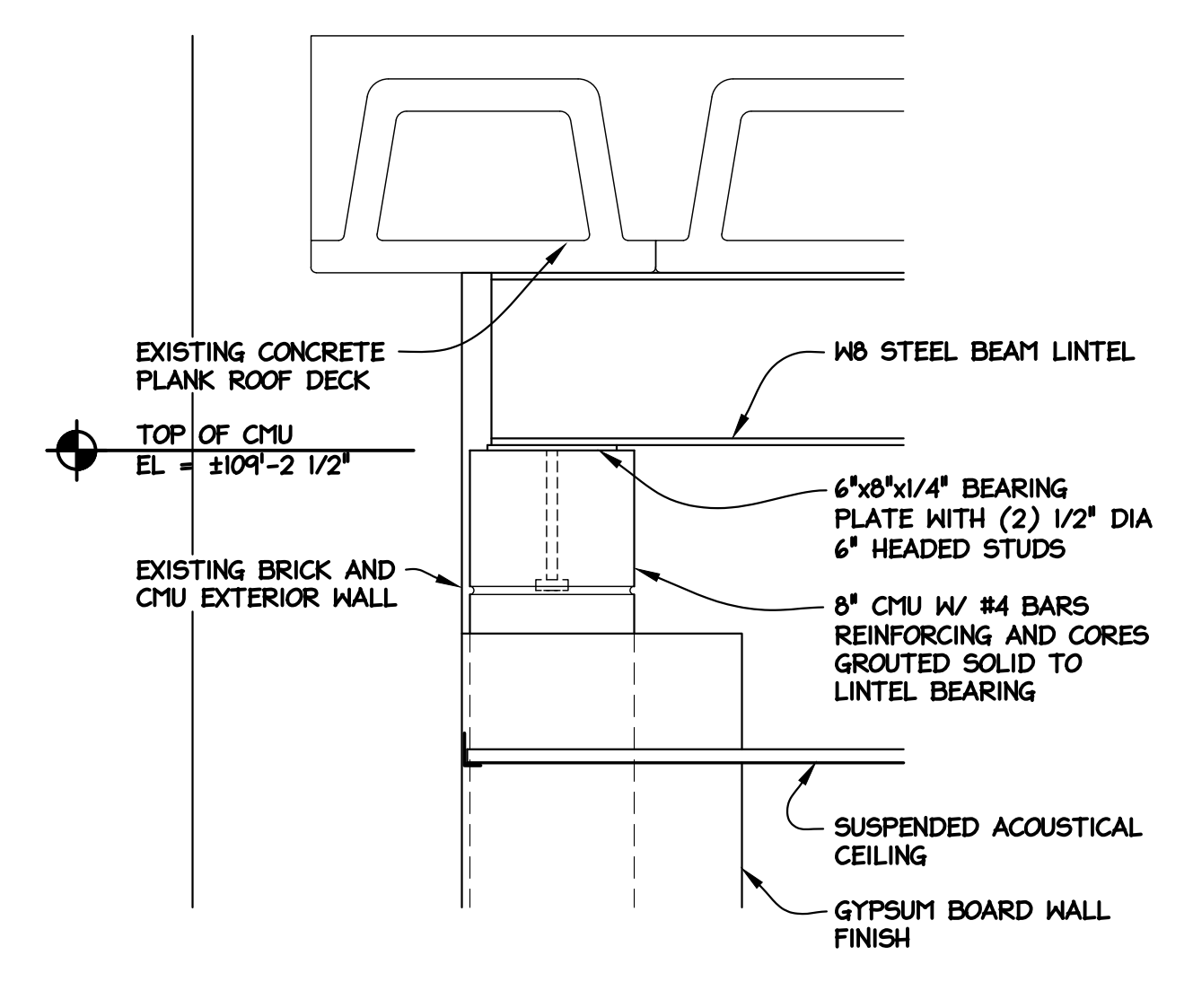
RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCULA COUNTY OFFICES
 171 N STATE ST
 CARO, MI

MISCELLANEOUS DETAILS

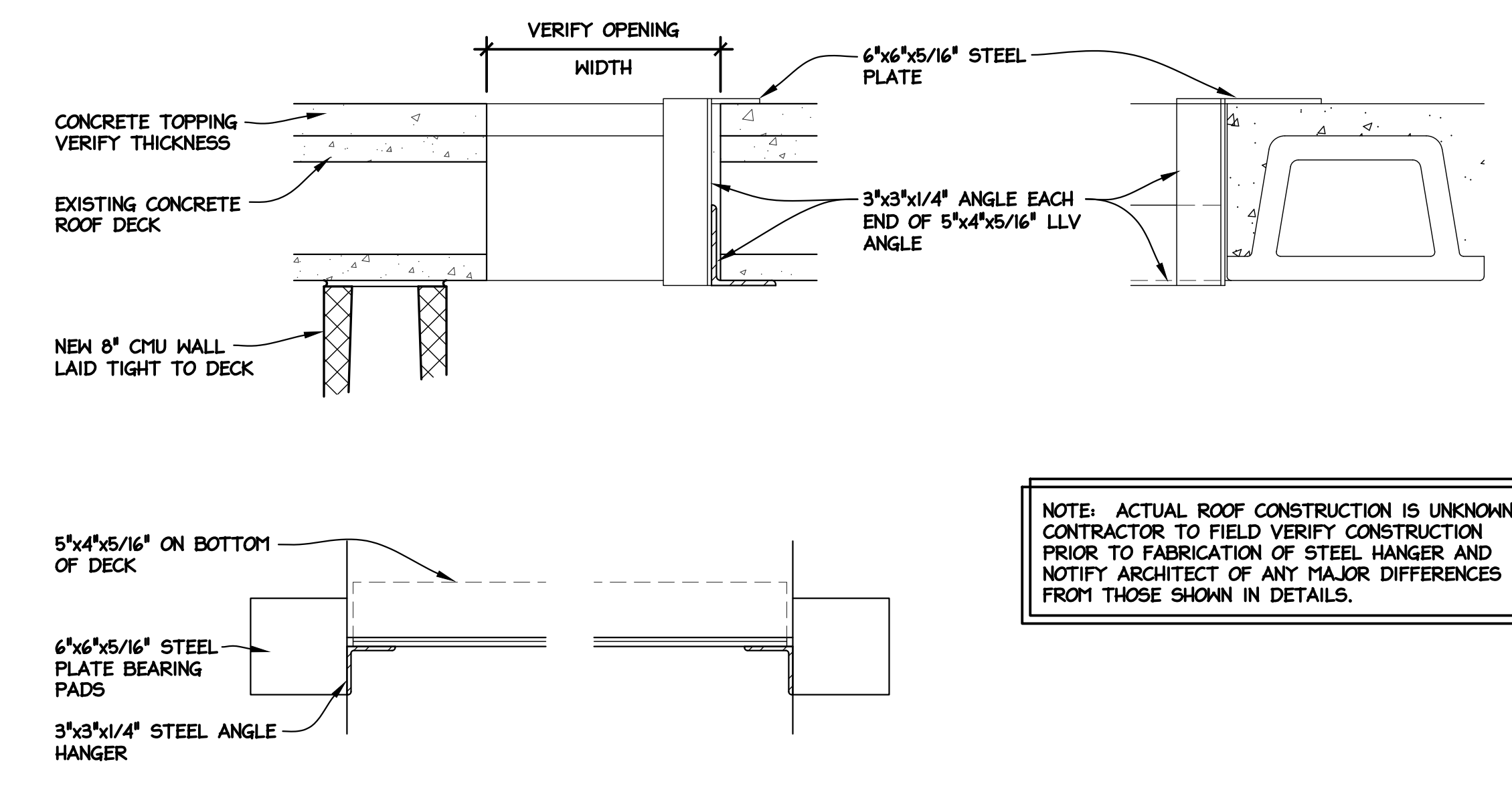
NJB ARCHITECTS INC.
 105+ Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax
 www.njb-architects.com



**1 GIS OFFICE 108
 CMU PIER SECTIONS**
 1-1/2" = 1'-0"

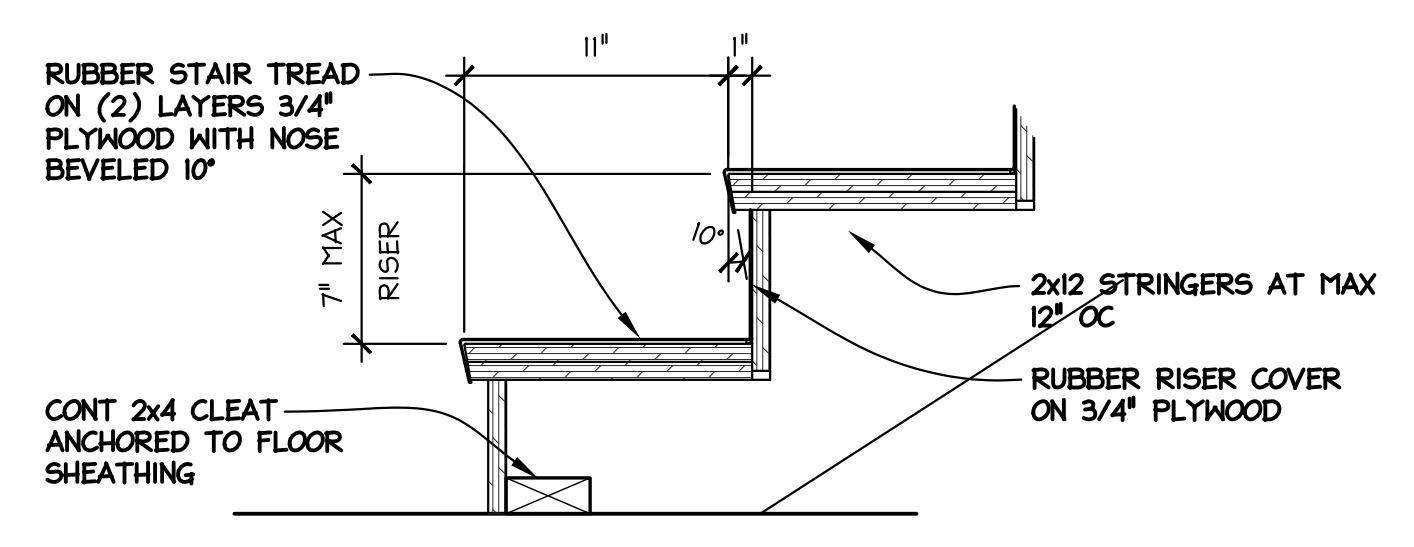


**4 GIS OFFICE 108 - TOP OF
 CMU PIER SECTIONS**
 1-1/2" = 1'-0"



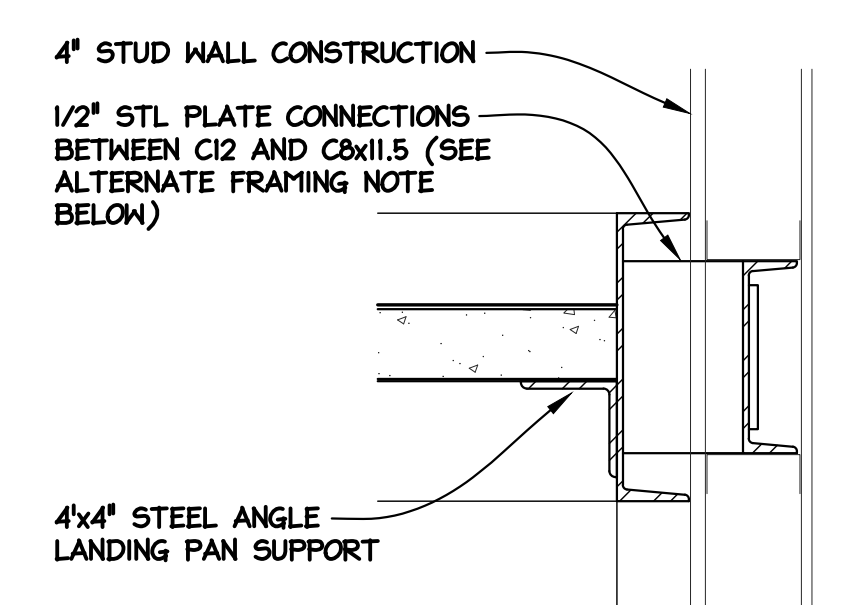
**5 CONCRETE ROOF DECK HVAC DUCTS
 OPENING SUPPORT**
 1-1/2" = 1'-0"

NOTE: ACTUAL ROOF CONSTRUCTION IS UNKNOWN. CONTRACTOR TO FIELD VERIFY CONSTRUCTION PRIOR TO FABRICATION OF STEEL HANGER AND NOTIFY ARCHITECT OF ANY MAJOR DIFFERENCES FROM THOSE SHOWN IN DETAILS.

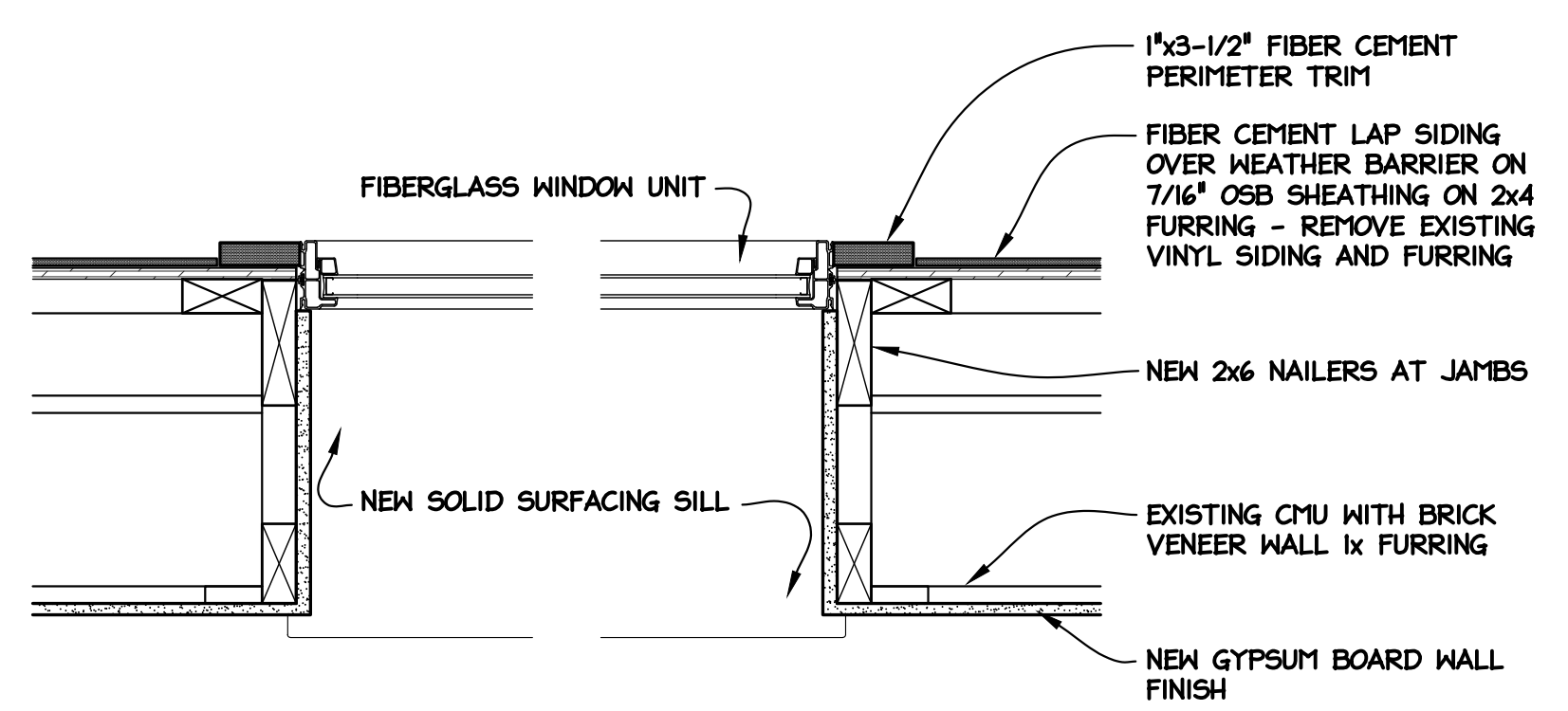


**2 STAIR 2 - TYPICAL WOOD
 STAIR SECTION**
 1-1/2" = 1'-0"

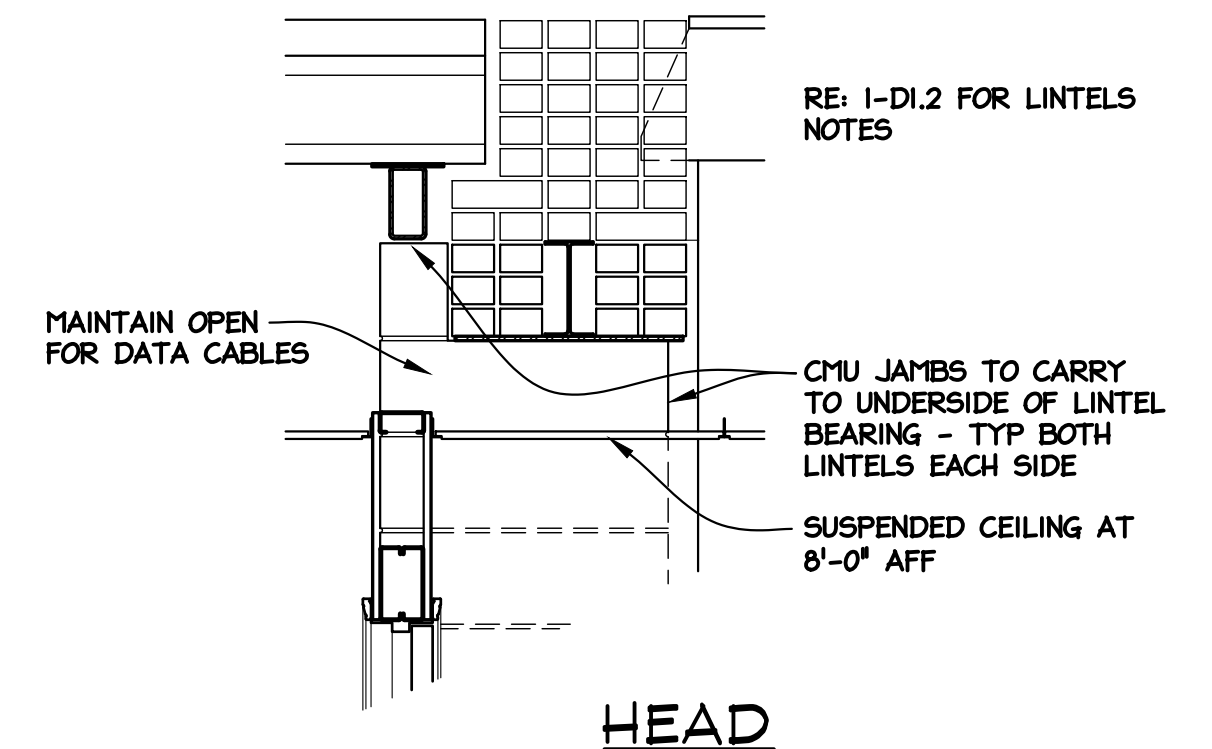
NOTE: STAIR CONSTRUCTION DETAILED SHOWS DESIGN INTENT. STEEL SUPPLIER/DETAILER IS RESPONSIBLE FOR STAIR DESIGN.



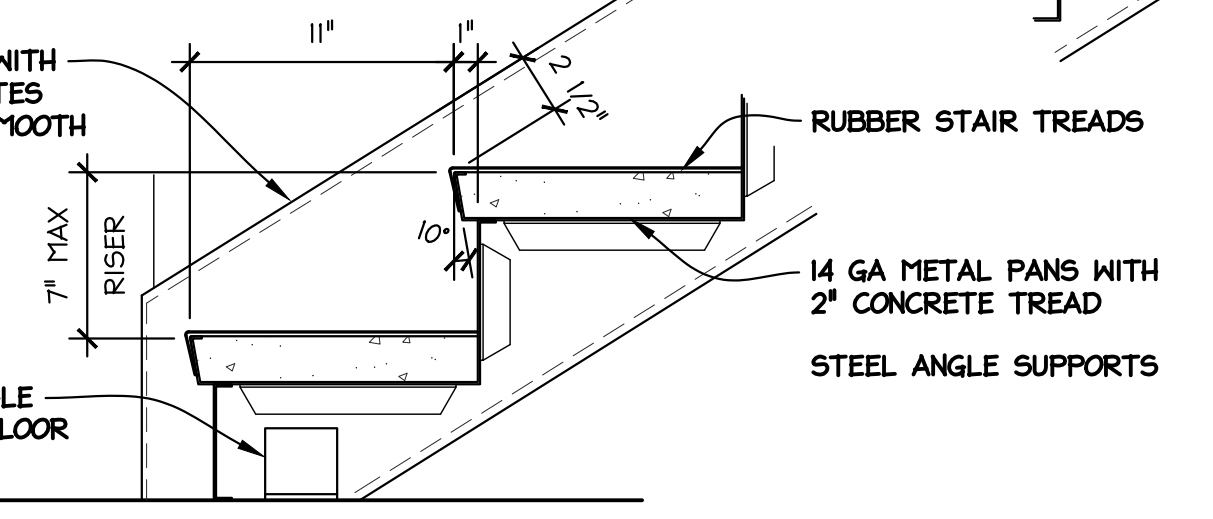
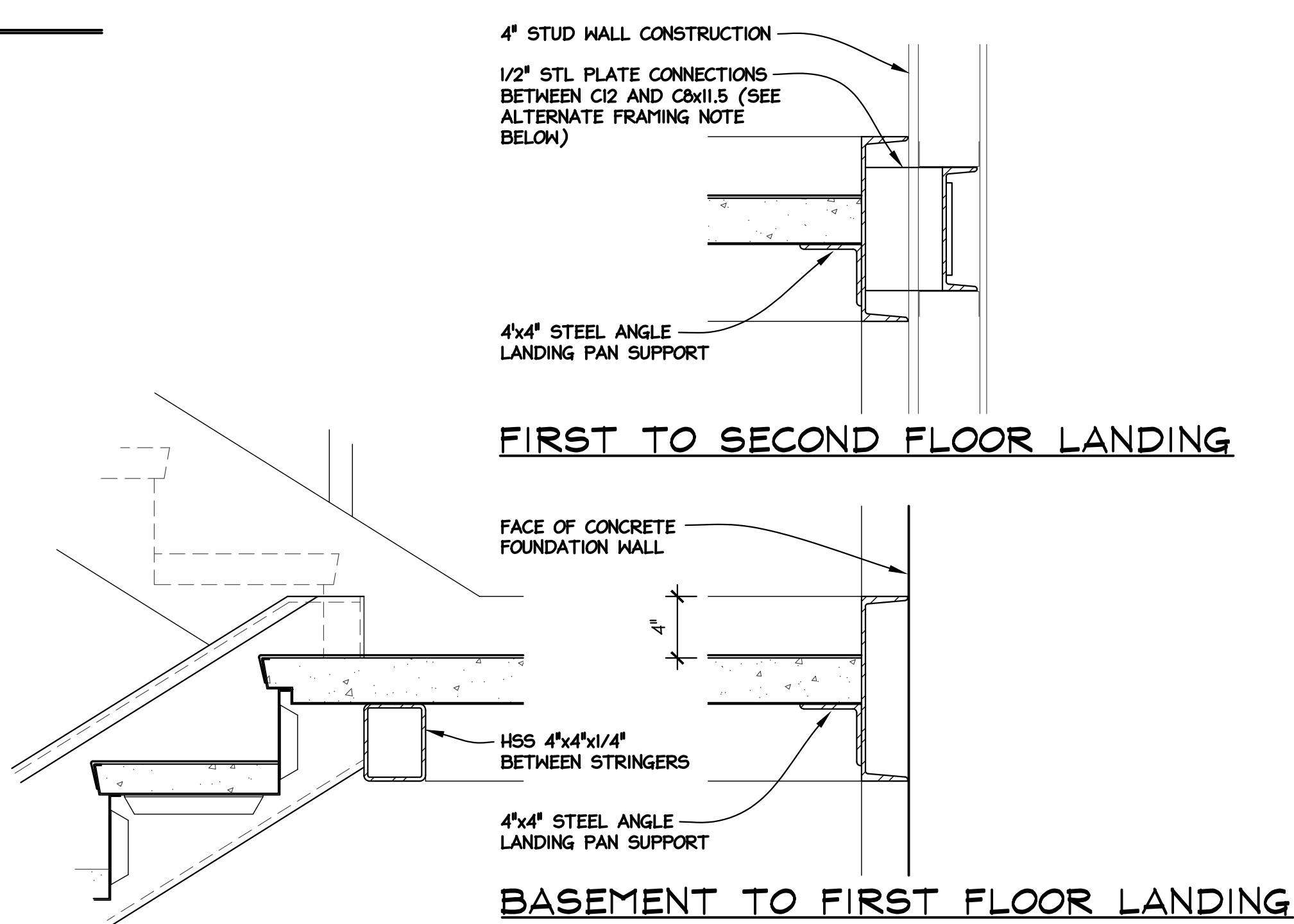
**6 GIS OFFICE 108
 WINDOW JAMB SECTION**
 1-1/2" = 1'-0"



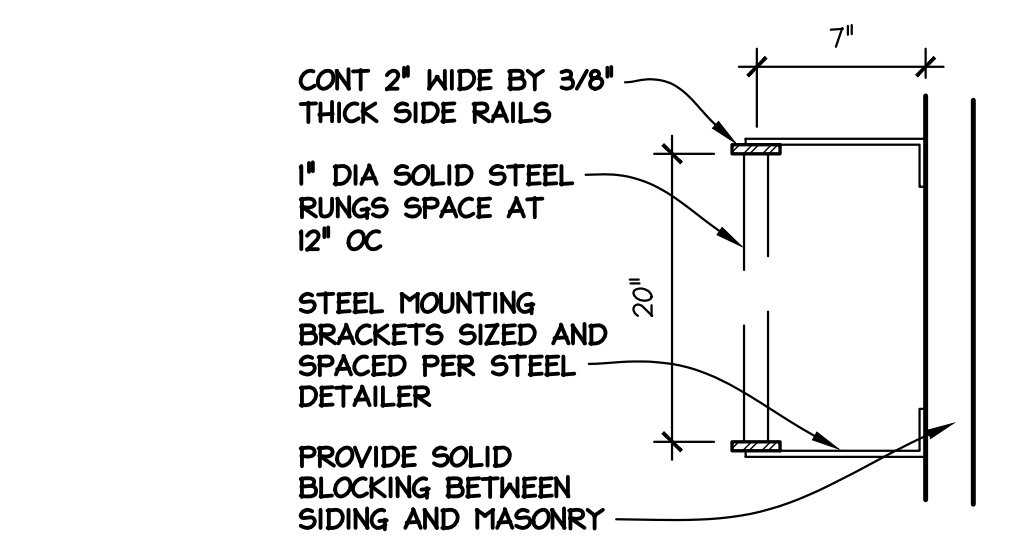
**7 JURY / CONFERENCE 103
 WINDOW JAMB SECTION**
 1-1/2" = 1'-0"



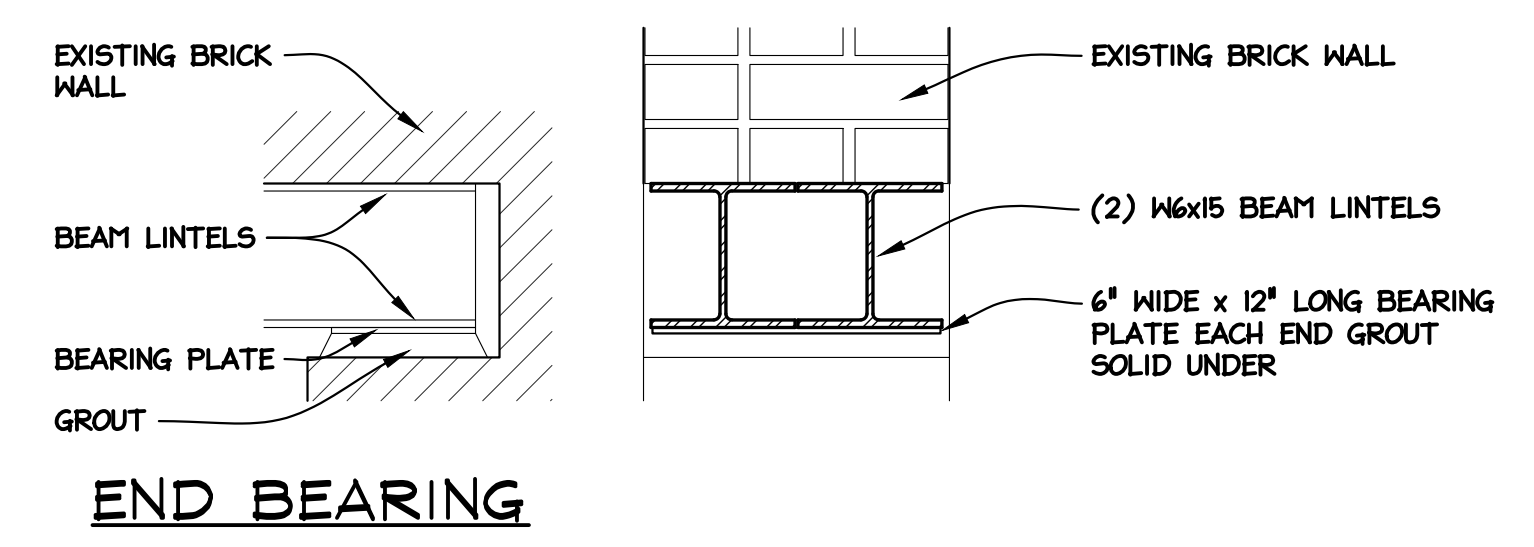
**9 DOOR 111
 JAMB & HEAD DETAILS**
 3/4" = 1'-0"



**3 STAIR 1 - TYPICAL METAL
 STAIR / LANDING DETAILS**
 1-1/2" = 1'-0"



**8 EXTERIOR UPPER ROOF
 WALL LADDER SECTION**
 1-1/2" = 1'-0"



**10 DOORS 102 / 104
 HEAD LINTEL SECTION**
 1-1/2" = 1'-0"

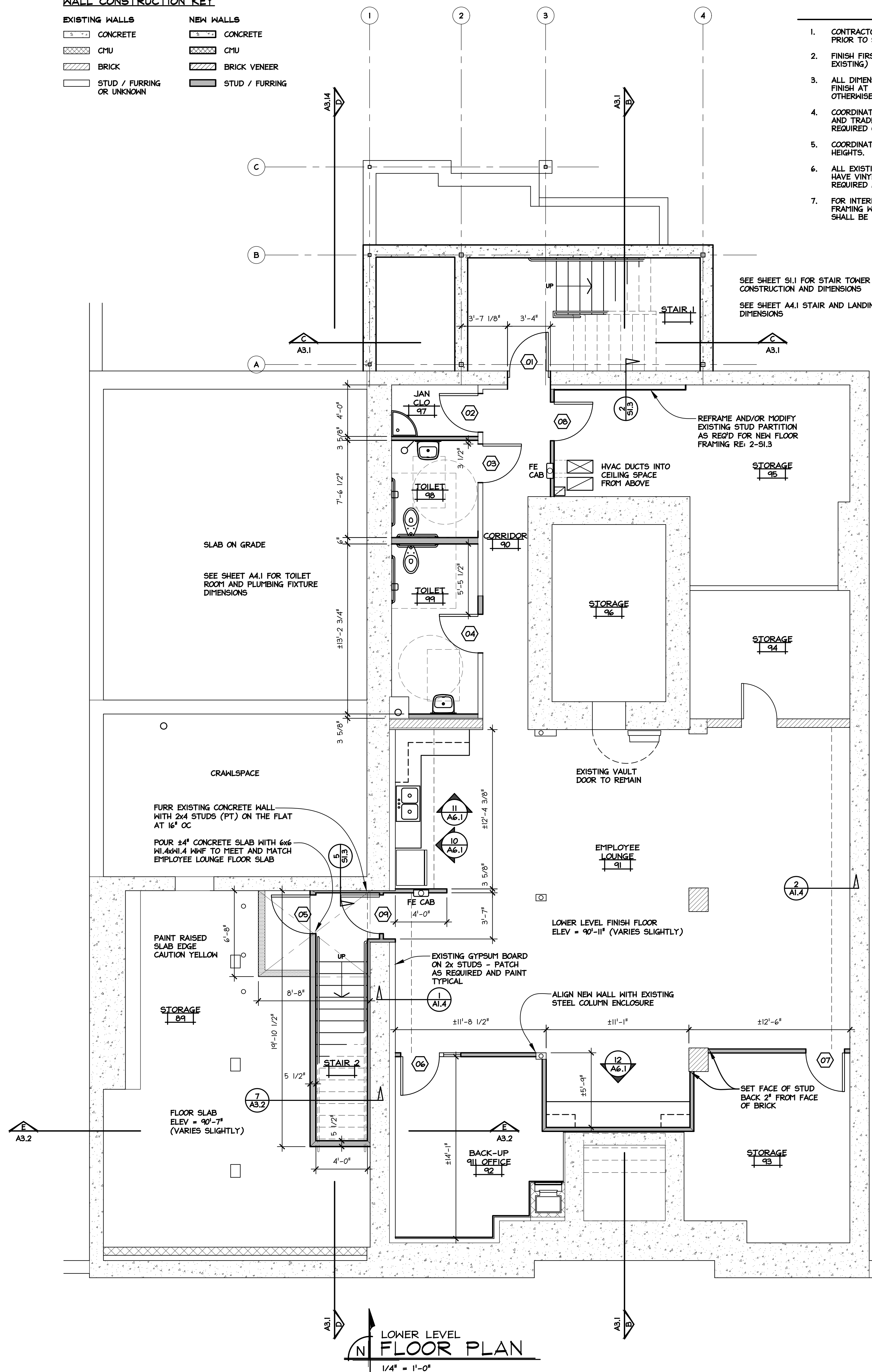
END BEARING

WALL CONSTRUCTION KEY

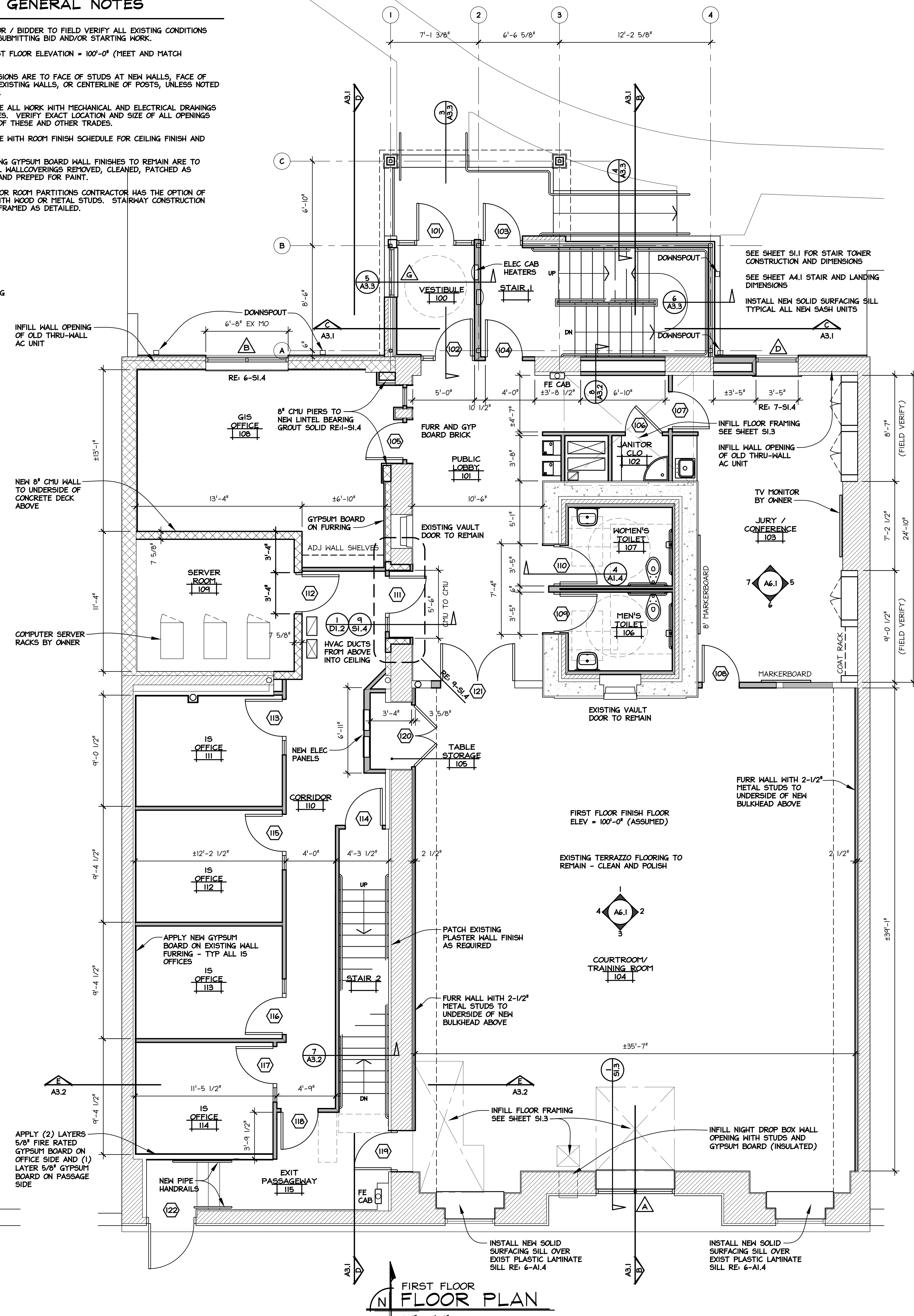
EXISTING WALLS	NEW WALLS
CONCRETE	CONCRETE
CMU	CMU
BRICK	BRICK VENEER
STUD / FURRING OR UNKNOWN	STUD / FURRING

GENERAL NOTES

1. CONTRACTOR / BIDDER TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID AND/OR STARTING WORK.
2. FINISH FIRST FLOOR ELEVATION = 100'-0" (MEET AND MATCH EXISTING)
3. ALL DIMENSIONS ARE TO FACE OF STUDS AT NEW WALLS, FACE OF FINISH AT EXISTING WALLS, OR CENTERLINE OF POSTS, UNLESS NOTED OTHERWISE.
4. COORDINATE ALL WORK WITH MECHANICAL AND ELECTRICAL DRAWINGS AND TRADES. VERIFY EXACT LOCATION AND SIZE OF ALL OPENINGS REQUIRED OF THESE AND OTHER TRADES.
5. COORDINATE WITH ROOM FINISH SCHEDULE FOR CEILING FINISH AND HEIGHTS.
6. ALL EXISTING GYPSUM BOARD WALL FINISHES TO REMAIN ARE TO HAVE VINYL WALLCOVERINGS REMOVED, CLEANED, PATCHED AS REQUIRED AND PREPARED FOR PAINT.
7. FOR INTERIOR ROOM PARTITIONS CONTRACTOR HAS THE OPTION OF FRAMING WITH WOOD OR METAL STUDS. STAIRWAY CONSTRUCTION SHALL BE FRAMED AS DETAILED.



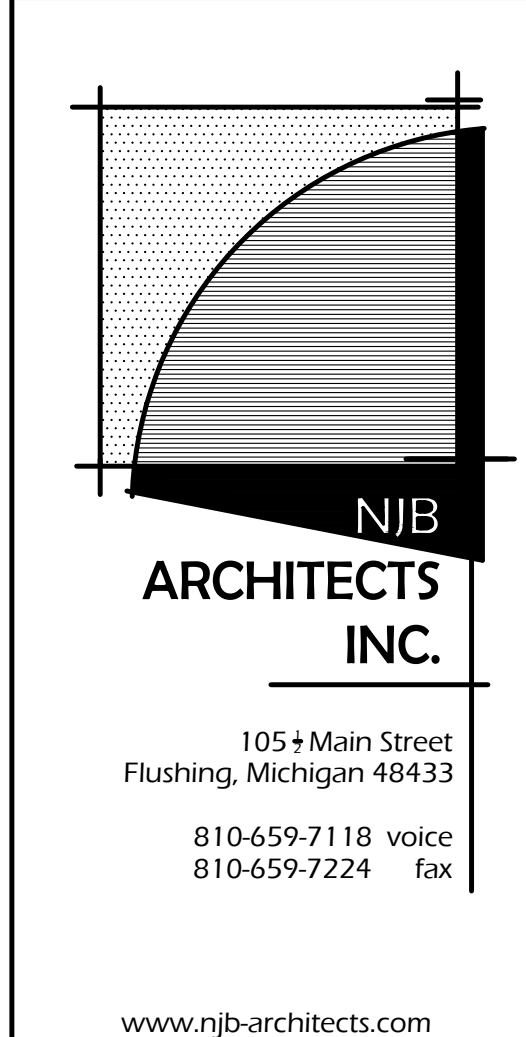
LOWER LEVEL FLOOR PLAN
1/4" = 1'-0"



FIRST FLOOR PLAN
1/4" = 1'-0"

REV#	REVISION/ISSUANCE	DATE	DRAWN BY	DATE	SCALE	AS NOTED
1	OWNER'S APPROVAL	04/27/23	TLG			
2	BID DOCUMENTS	06/26/23	LBD			

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI



ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING MATERIAL	CEILING HEIGHT	EQUIPMENT	NOTES
LOWER LEVEL	STAIR 1	F03 F07	B03	W01	W01	EH03	W01	C07	VARIABLES		
90	CORRIDOR	F05	B03	EH08	W03	EH04	EH08	C06	±8'-0"	E09	
91	EMPLOYEE LOUNGE	F05	B03	EH04	EH05	W03	W03	C06	±8'-0"	E03	
92	BACKUP 911 OFFICE	F08	B03	W03	W03	W04	EH08	C03	7'-8"		
93	STORAGE	F05	B03	W03	EH06	EH03	W03, EH06	C06	±8'-0"		
94	STORAGE	F01	B01	EH01	EH01	EH01	EH01	C01			
95	STORAGE	F01	B01	EH01	EH01	EH01	EH01	C01	8'-0"		
96	STORAGE (VAULT)	F01	B01	EH01	EH01	EH01	EH01	C01	8'-0"		
97	JANITOR CLOSET	F05	B03	EH03	EH06	W05	EH04	C04	8'-0"	E01	
98	TOILET	F05	B03	W03	EH06	W03	EH04	C04	7'-2"	E04	
99	TOILET	F05	B03	W03	EH08	W03	EH04	C04	7'-2"	E04	
89	STORAGE	F01	B01	EH01	W03	EH01	EH01	C01			STAIR WALLS 1 HR CONSTRUCTION
LOWER LEVEL	STAIR 2	F05 F07	B03	W04	W04	---	W03	C08	VARIABLES		STAIR WALLS 1 HR CONSTRUCTION
FIRST FLOOR	STAIR 1	F03 F07	B03	W03	W03	EH06	W03	---			
100	VESTIBULE	F04	B02	W06	W03	W06	W06	C04	8'-0"		
101	PUBLIC LOBBY	F06	B03	W06, W03	EH08	EH08	EH08	C03	8'-0"	E09	VAULT DOOR FIXED SHUT
102	JANITOR CLOSET	F05	B03	W03	W05	W03	W03	C04	7'-6"	E01, E02	
103	JURY / CONFERENCE	F08	B03	EH08	W03	EH06	EH08	C03	8'-4"	E03, E05	GENERAL FINISH NOTE #7
104	COURTROOM TRAINING ROOM	F02 F06	B04	EH08	W03	EH02	W03	C02	20'-0"		VAULT DOOR FIXED SHUT
105	TABLE STORAGE	F06	B03	EH08	W03	EH08	W03	C04	MATCH EXISTING		
106	TOILET	F04	B02	W03	W03	W03	W03	C04	7'-6"	E04	
107	TOILET	F04	B02	W03	W03	W03	W03	C04	7'-6"	E04	
108	GIS OFFICE	F06	B03	EH07	EH07	W02	EH07	C03	8'-0"	E02	
109	SERVER ROOM	F05	B03	W02	W02	W02	W02	C04	±9'-1"		SERVER EQPM BY OWNER
110	CORRIDOR	F06	B03	W02	W03	W03	W02	C03	8'-0"		STAIR WALLS 1 HR CONSTRUCTION
111	IS OFFICE	F06	B03	EH08	W03	W03	EH09	C03	8'-0"		GENERAL FINISH NOTE #7
112	IS OFFICE	F06	B03	W03	W03	W03	EH09	C03	8'-0"		GENERAL FINISH NOTE #7
113	IS OFFICE	F06	B03	W03	W03	W03	EH09	C03	8'-0"		GENERAL FINISH NOTE #7
114	IS OFFICE	F06	B03	W03	W03	EH06	EH09	C03	8'-0"		GENERAL FINISH NOTE #7
115	EXIT PASSAGEWAY	F05 F07	B03	EH08	EH02	EH06	EH08	C03	8'-0"	E09	STAIRS/EXIT WALLS 1 HR CONSTRUCTION
FIRST FLOOR	STAIR 2	F07	W03	---	EH02	---	W03	C08	VARIABLES		STAIRS/EXIT WALLS 1 HR CONSTRUCTION
SECOND FLOOR	STAIR 1	F03 F07	B03	W03	W03	EH06	W03	C07	VARIABLES		
200	CORRIDOR	F05	B03	EH06	W03	W03	EH06	C03	7'-8"	E09	
201	IS MANAGER	F06	B03	EH06	EH06	EH09	W03	C03	8'-0"		GENERAL FINISH NOTE #7
202	CONFERENCE ROOM	F08	B03	W03	W03	EH09	W03	C03	8'-0"		GENERAL FINISH NOTE #7
203	JANITOR CLOSET	F05	B03	W03	W03	W03	W05	C04	7'-6"	E01, E02	
204	MECHANICAL	F05	B03	W03	W03	W03	W03	C04	±9'-1"		GENERAL FINISH NOTE #7
205	EMERGENCY MANAGEMENT	F08 F05	B03	EH09	EH08	EH06	EH08	C03	8'-3"	E03, E09	STAIR WALLS 1 HR CONSTRUCTION
205A	CLOSET	F08	B03	W03	W03	W03	W03	C04	8'-0"	E05	STAIR WALL 1 HR CONSTRUCTION
206	TOILET	F05	B03	W03	W03	W03	W03	C04	8'-0"	E04	
SECOND FLOOR	STAIR 2	F05 F07	B03	W03	EH02	EH06	W03	C03	VARIABLES		STAIR WALLS 1 HR CONSTRUCTION

GENERAL FINISH NOTES:

- PAINT ALL HOLLOW METAL FRAMES AND DOORS FURNISHED PRIME.
- PAINT ALL EXPOSED STEEL BEAMS AND LINTELS.
- PAINT ALL EXPOSED STEEL STRUCTURE OF STAIRS, HANDRAILS AND RAILINGS.
- PAINT ALL EXTERIOR STEEL HANDRAILS AND RAILINGS.
- PAINT ALL MECHANICAL GRILLES OR DIFFUSERS SUPPLIED UNFINISHED OR AS NOTED ON DRAWINGS TO BE PAINTED TO MATCH SURROUNDING WALL OR CEILING COLOR.
- PAINT ALL WALL OR CEILING ACCESS PANELS TO MATCH SURROUNDING WALL OR CEILING COLOR.
- INSTALL SOUND INSULATION BATTS IN STUD WALL CAVITIES. COORDINATE WITH REFLECTED CEILING PLANS, SHEETS A1.3 AND A1.4.

FINISH SCHEDULE KEY

FLOOR FINISHES

- F01 EXISTING FINISH TO REMAIN - NO WORK REQUIRED UNLESS NOTED OTHERWISE ON DRAWINGS
- F02 EXISTING TERRAZZO, CLEAN AND POLISH
- F03 EXPOSED CONCRETE SLAB, SEALED
- F04 PORCELAIN CERAMIC TILE
- F05 VINYL COMPOSITION TILE
- F06 LUXURY VINYL TILE PLANKS
- F07 VINYL STAIR TREADS WITH MATCHING TILE ON LANDINGS
- F08 CARPET

WALL BASE FINISHES

- B01 EXISTING BASE TO REMAIN - NO WORK REQUIRED UNLESS NOTED OTHERWISE ON DRAWINGS
- B02 3" PORCELAIN CERAMIC TILE
- B03 4" COVED VINYL BASE
- B04 7-3/4" PROFILED RUBBER BASE

EXISTING WALL FINISHES

- EH01 FINISH TO REMAIN - NO WORK REQUIRED UNLESS NOTED OTHERWISE ON DRAWINGS
- EH02 PLASTER, PATCH AS REQUIRED AND REPAINT
- EH03 EXPOSED CONCRETE, PATCH AS REQUIRED, PREP AND PAINT
- EH04 EXPOSED PAINTED CONCRETE, PATCH AS REQUIRED AND REPAINT
- EH05 PAINTED BRICK, REPAINT
- EH06 UNPAINTED BRICK TO REMAIN EXPOSED
- EH07 CMU, APPLY GYPSUM BOARD TO EXISTING FURRING (OR NEW FURRING), FINISH TAPE AND PAINT
- EH08 GYPSUM BOARD ON STUDS OR FURRING, PATCH AS REQUIRED AND REPAINT
- EH09 APPLY GYPSUM BOARD TO EXISTING STUDS OR FURRING, FINISH TAPE AND PAINT
- EH10 FRP HALL PANELS OVER GYPSUM BOARD ON FURRING

NEW WALL FINISHES

- W01 CONCRETE, PAINT
- W02 CMU, PAINT
- W03 GYPSUM BOARD ON STUDS, FINISH TAPE AND PAINT
- W04 GYPSUM BOARD ON FURRING, FINISH TAPE AND PAINT
- W05 FRP HALL PANELS OVER GYPSUM BOARD ON STUDS
- W06 ALUMINUM STOREFRONT ASSEMBLY

CEILING FINISHES

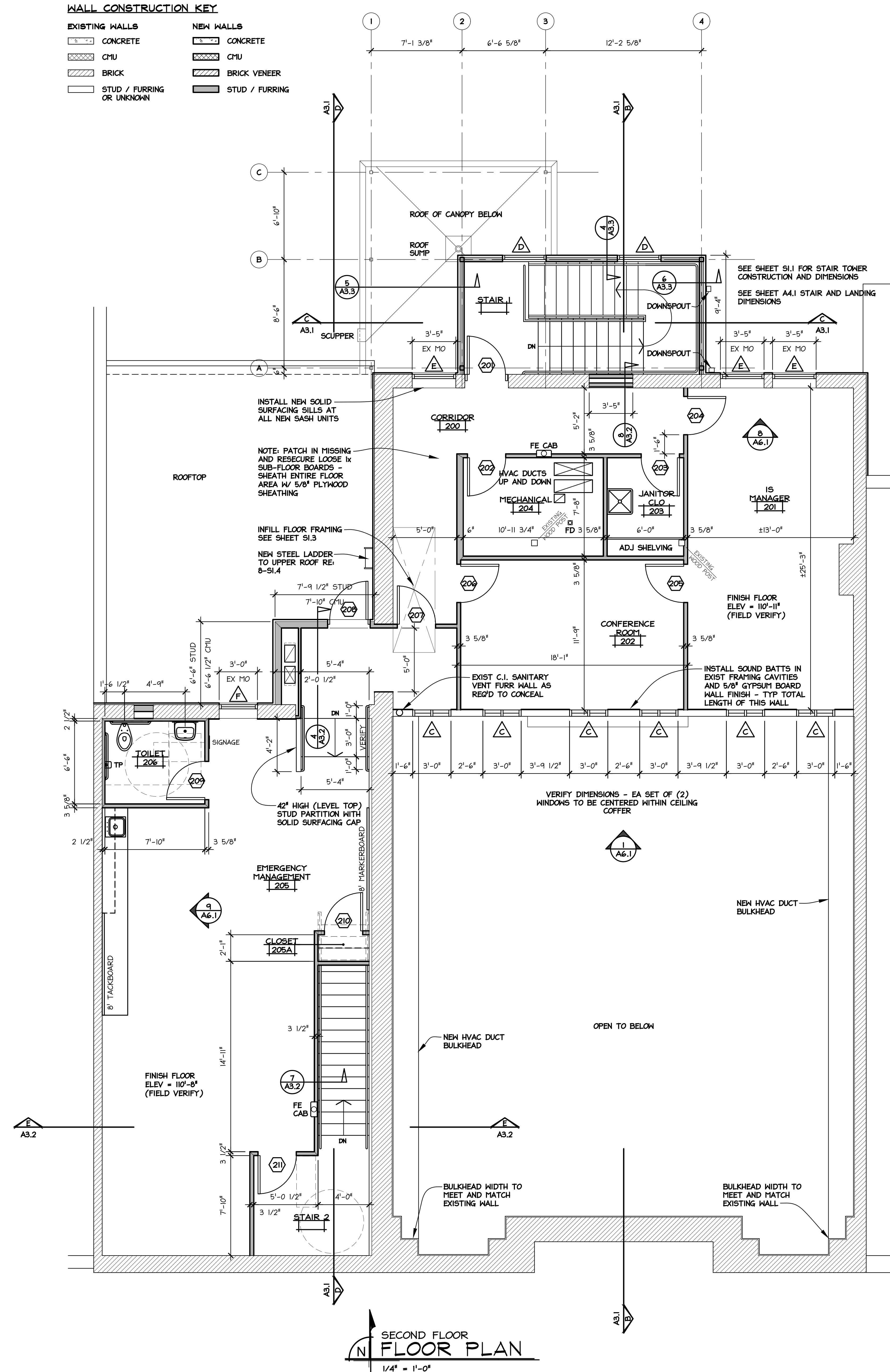
- C01 EXISTING CEILING TO REMAIN - NO WORK REQUIRED UNLESS NOTED OTHERWISE ON DRAWINGS
- C02 EXISTING LATH AND PLASTER - SEE REFLECTED CEILING PLAN FOR REQUIRED WORK
- C03 2x2 SUSPENDED ACOUSTICAL LAY-IN
- C04 GYPSUM BOARD, PAINT
- C05 GYPSUM BOARD SOFFIT OR BULKHEAD, PAINT
- C06 EXPOSED JOIST FLOOR FRAMING, PAINT
- C07 EXPOSED METAL DECK, PAINT
- C08 2 LAYERS FIRE-RATED GYPSUM BOARD, PAINT
- C09 2 LAYERS FIRE-RATED GYPSUM BOARD ON BOTTOM OF EXISTING CEILING JOIST

EQUIPMENT AND ACCESSORIES

- E01 MOP RACK
- E02 ADJUSTABLE WALL SHELVING
- E03 PLASTIC LAMINATE CASEWORK AND COUNTERTOPS
- E04 TOILET ROOM ACCESSORIES
- E05 COAT HANGING ROD
- E07 DIRECTORY / SIGNAGE
- E08 MARKERBOARD / TACKBOARD
- E09 FIRE EXTINGUISHER CABINET

WALL CONSTRUCTION KEY

- EXISTING WALLS**
 - CONCRETE
 - CMU
 - BRICK
 - STUD / FURRING OR UNKNOWN
- NEW WALLS**
 - CONCRETE
 - CMU
 - BRICK VENEER
 - STUD / FURRING



SECOND FLOOR FLOOR PLAN
1/4" = 1'-0"

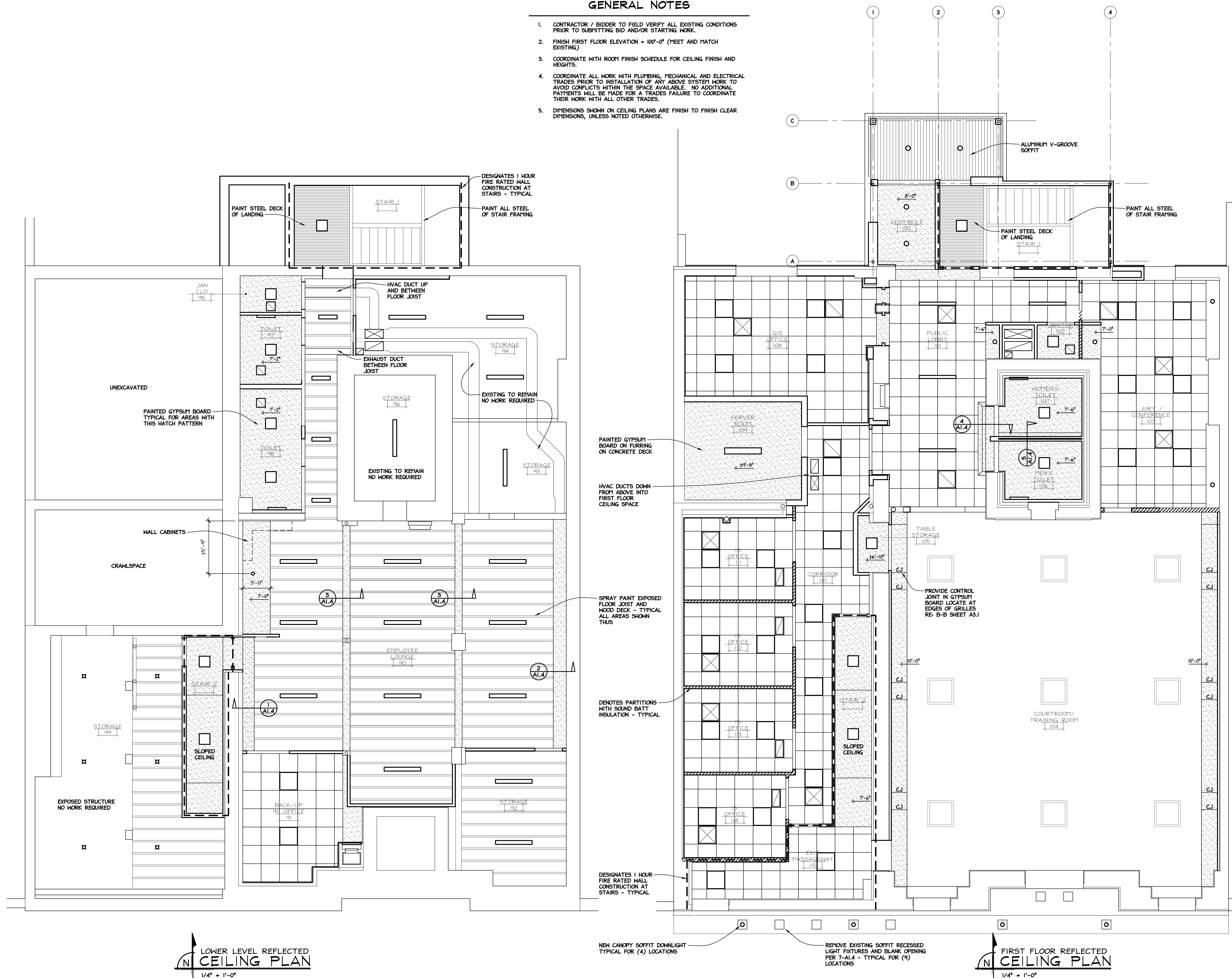
REVIEWED BY	TLG	SCALE	AS NOTED	DATE	06/26/23
DRAWN BY	LJD	PROJECT NO.	22240	CAD FILE	
DATE	04/27/23	BID DOCUMENTS			
REVISION/DESCRIPTION					
REV#	1	OWNER'S APPROVAL			
	2				

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI
SECOND FLOOR PLAN AND ROOM FINISH SCHEDULE

NJB ARCHITECTS INC.
 105+ Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax
 www.njb-architects.com

GENERAL NOTES

1. CONTRACTOR / BIDDER TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID AND/OR STARTING WORK.
2. FINISH FIRST FLOOR ELEVATION = 100'-0" (MEET AND MATCH EXISTING)
3. COORDINATE WITH ROOM FINISH SCHEDULE FOR CEILING FINISH AND HEIGHTS.
4. COORDINATE ALL WORK WITH PLUMBING, MECHANICAL AND ELECTRICAL TRADES PRIOR TO INSTALLATION OF ANY ABOVE SYSTEM WORK TO AVOID CONFLICTS WITHIN THE SPACE AVAILABLE. NO ADDITIONAL PAYMENTS WILL BE MADE FOR A TRADES FAILURE TO COORDINATE THEIR WORK WITH ALL OTHER TRADES.
5. DIMENSIONS SHOWN ON CEILING PLANS ARE FINISH TO FINISH CLEAR DIMENSIONS, UNLESS NOTED OTHERWISE.



LOWER LEVEL REFLECTED CEILING PLAN
1/4" = 1'-0"

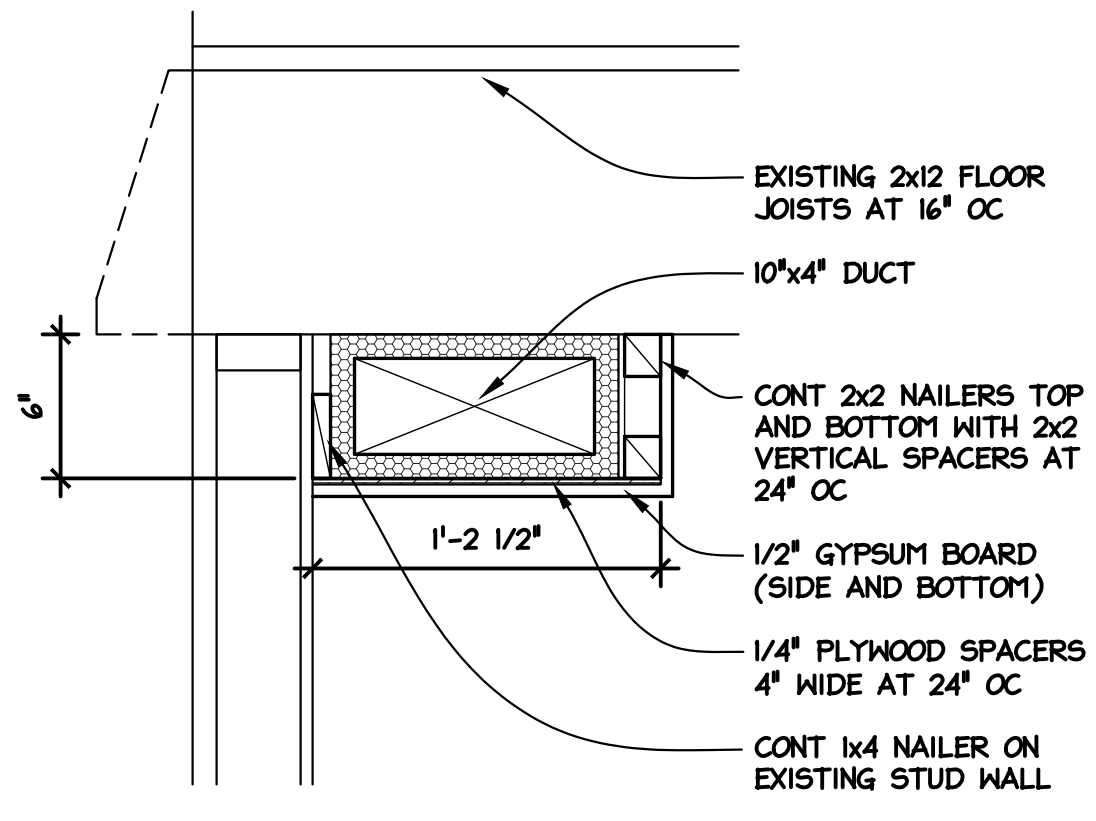
FIRST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"

REVIEWED BY	TLG	SCALE	AS NOTED	DATE	05/26/23
DATE	04/27/23	DATE	05/26/23	DATE	05/26/23
REVISION/ISSUE	OWNER'S APPROVAL	BID DOCUMENTS			
REV #	1	2			

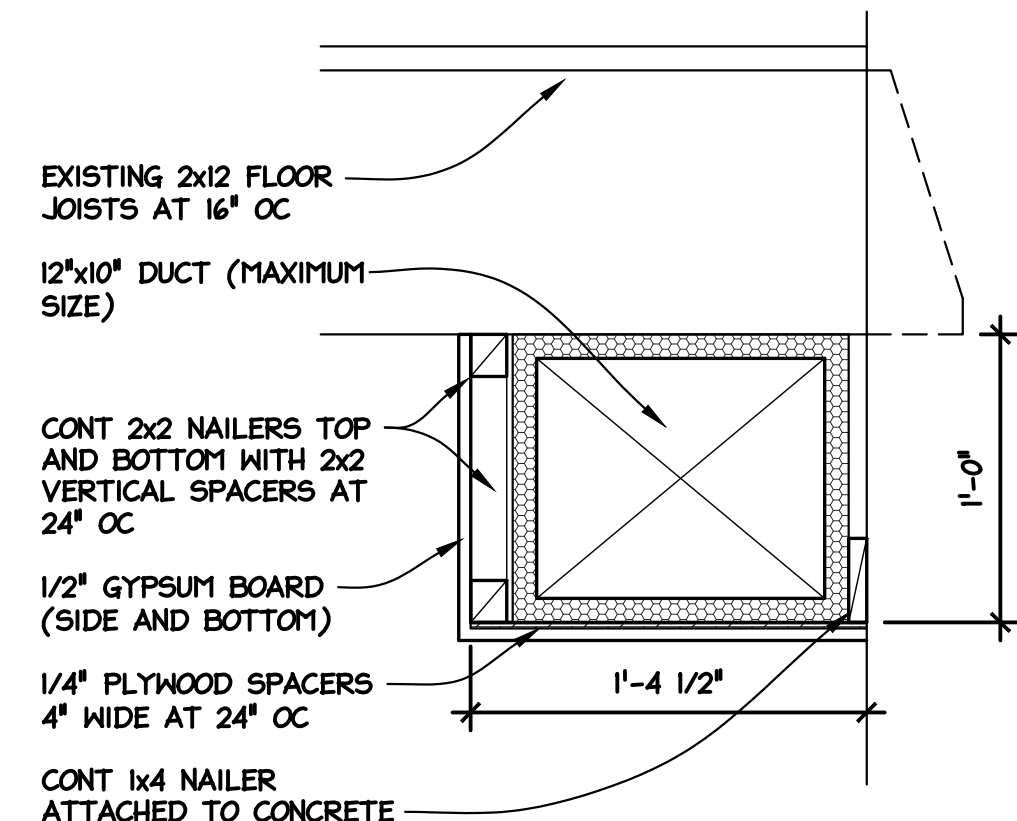
RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
171 N STATE ST
CARO, MI

LOWER LEVEL / FIRST FLOOR REFLECTED CEILING PLANS

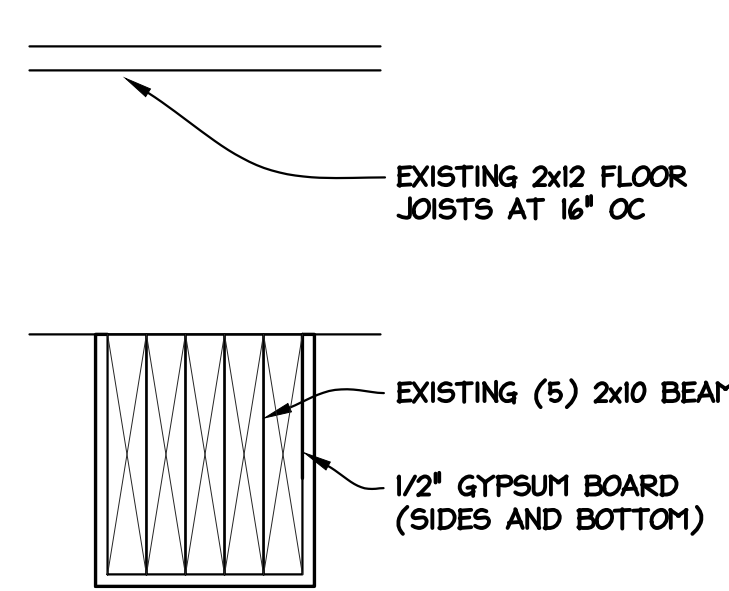
NJB ARCHITECTS INC.
105+ Main Street
Flushing, Michigan 48433
810-659-7118 voice
810-659-7224 fax
www.njb-architects.com



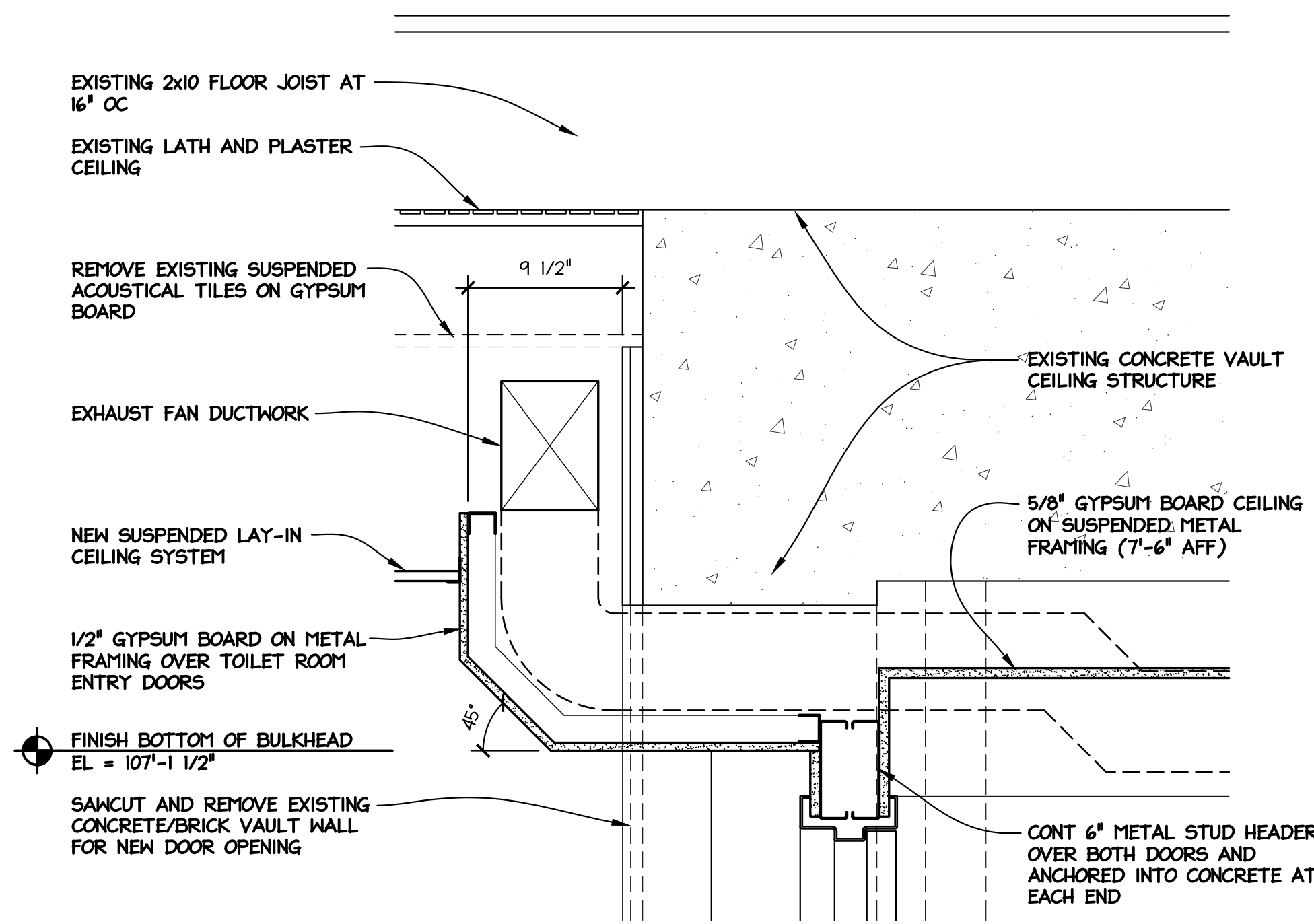
1 EMPLOYEE LOUNGE 90 - HVAC DUCT BULKHEAD SECTION
1-1/2" = 1'-0"



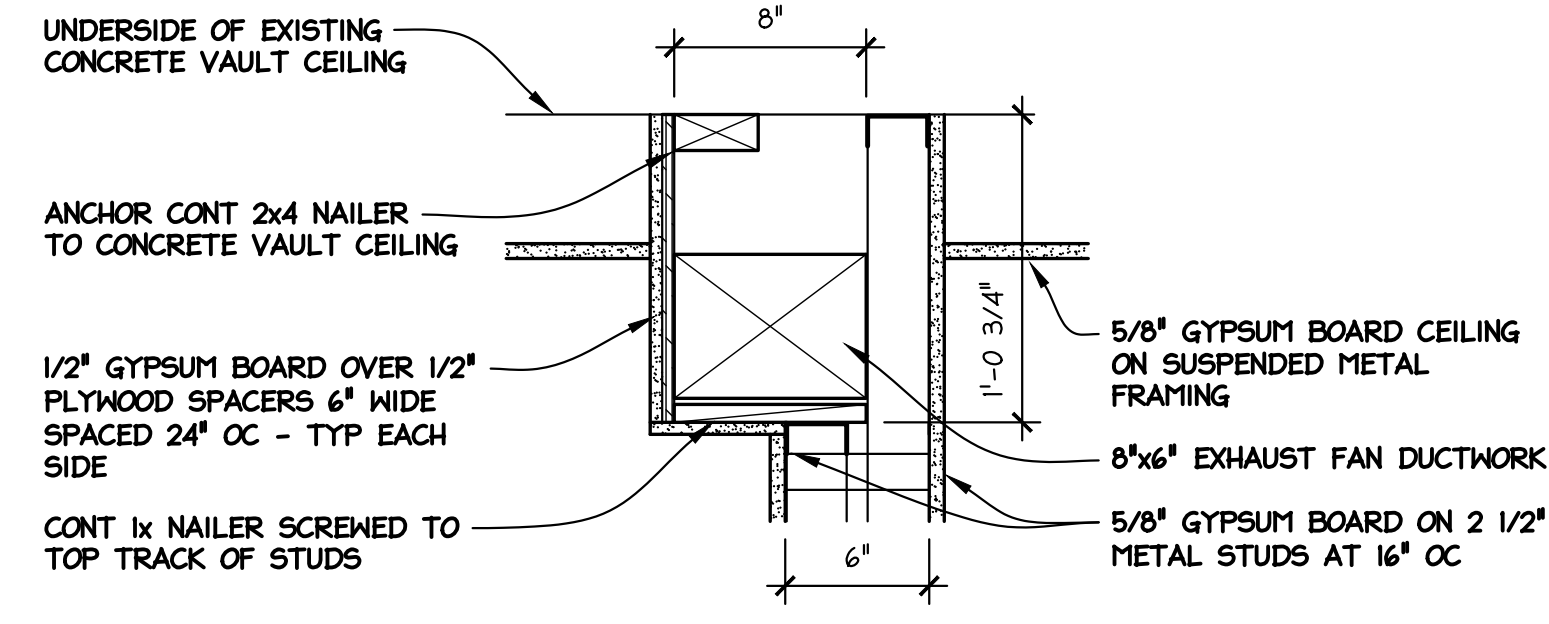
2 EMPLOYEE LOUNGE 90 - HVAC DUCT BULKHEAD SECTION
1-1/2" = 1'-0"



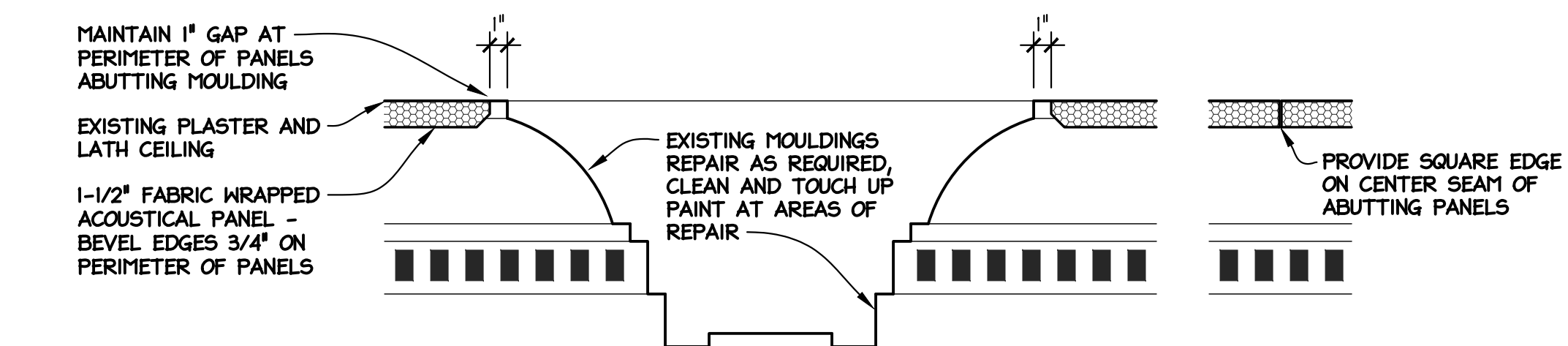
3 EMPLOYEE LOUNGE 90 WOOD BEAM SECTION
1-1/2" = 1'-0"



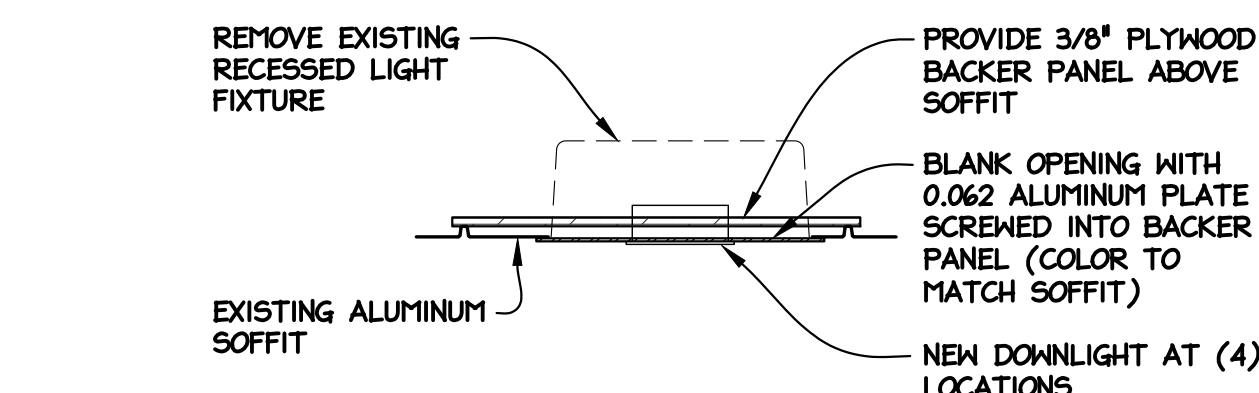
4 MENS TOILET 106 / WOMENS TOILET 107 DOOR HEAD / BULKHEAD SECTION
1-1/2" = 1'-0"



5 MENS TOILET 106 / WOMENS TOILET 107 DUCT BULKHEAD SECTION
1-1/2" = 1'-0"

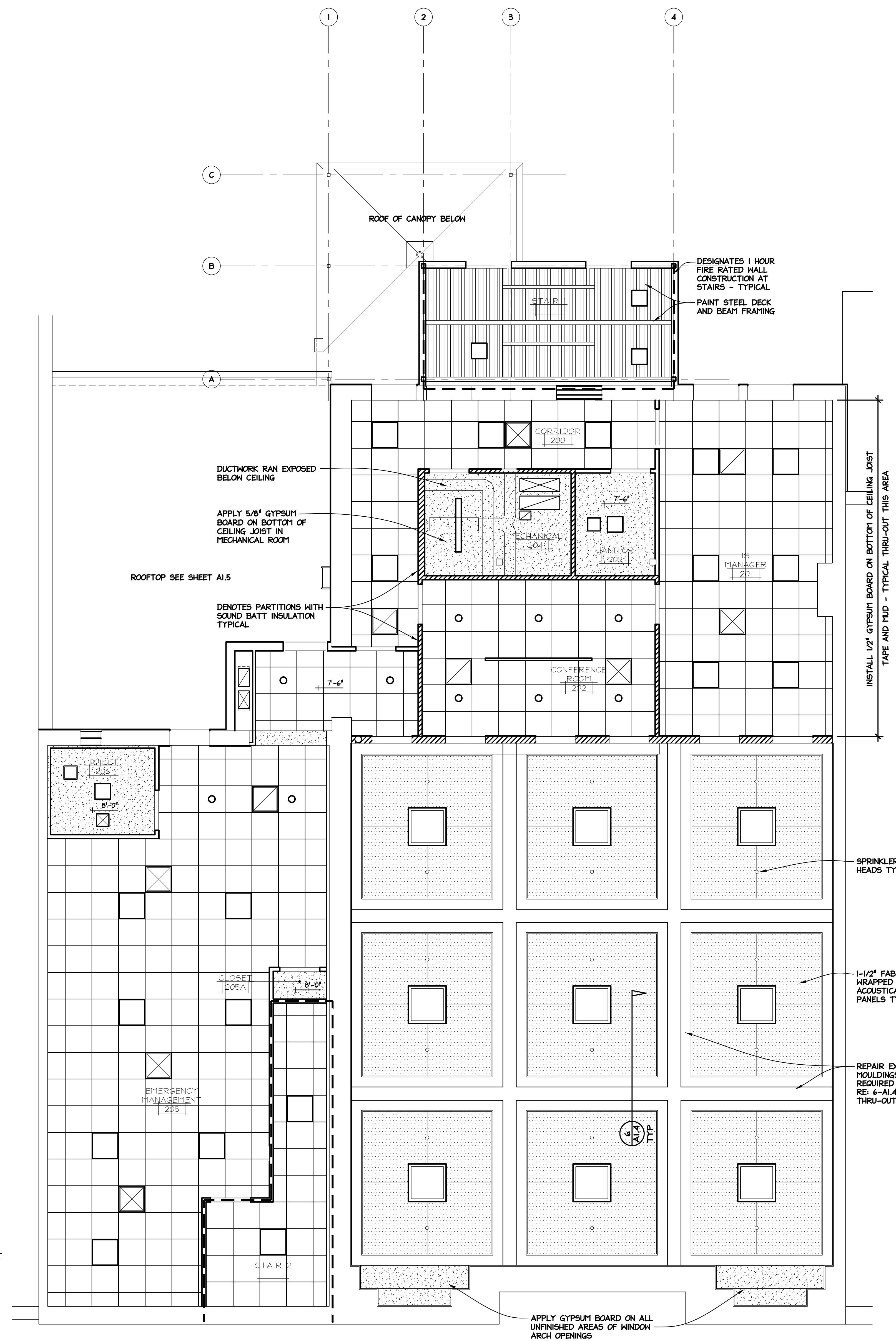


6 COURTCOURT / TRAINING ROOM 104 - EXISTING CEILING / MOULDING SECTION
1-1/2" = 1'-0"
SEE PHOTO AT RIGHT



7 FRONT ELEVATION - CANOPY LIGHT SOFFIT INFILL SECTION
1-1/2" = 1'-0"

PATCH ANY HOLES IN EXISTING GYPSUM BOARD CEILING AND REPAIR BATT INSULATION AS REQUIRED - TYPICAL THRU-OUT EMERGENCY MANAGEMENT AREA



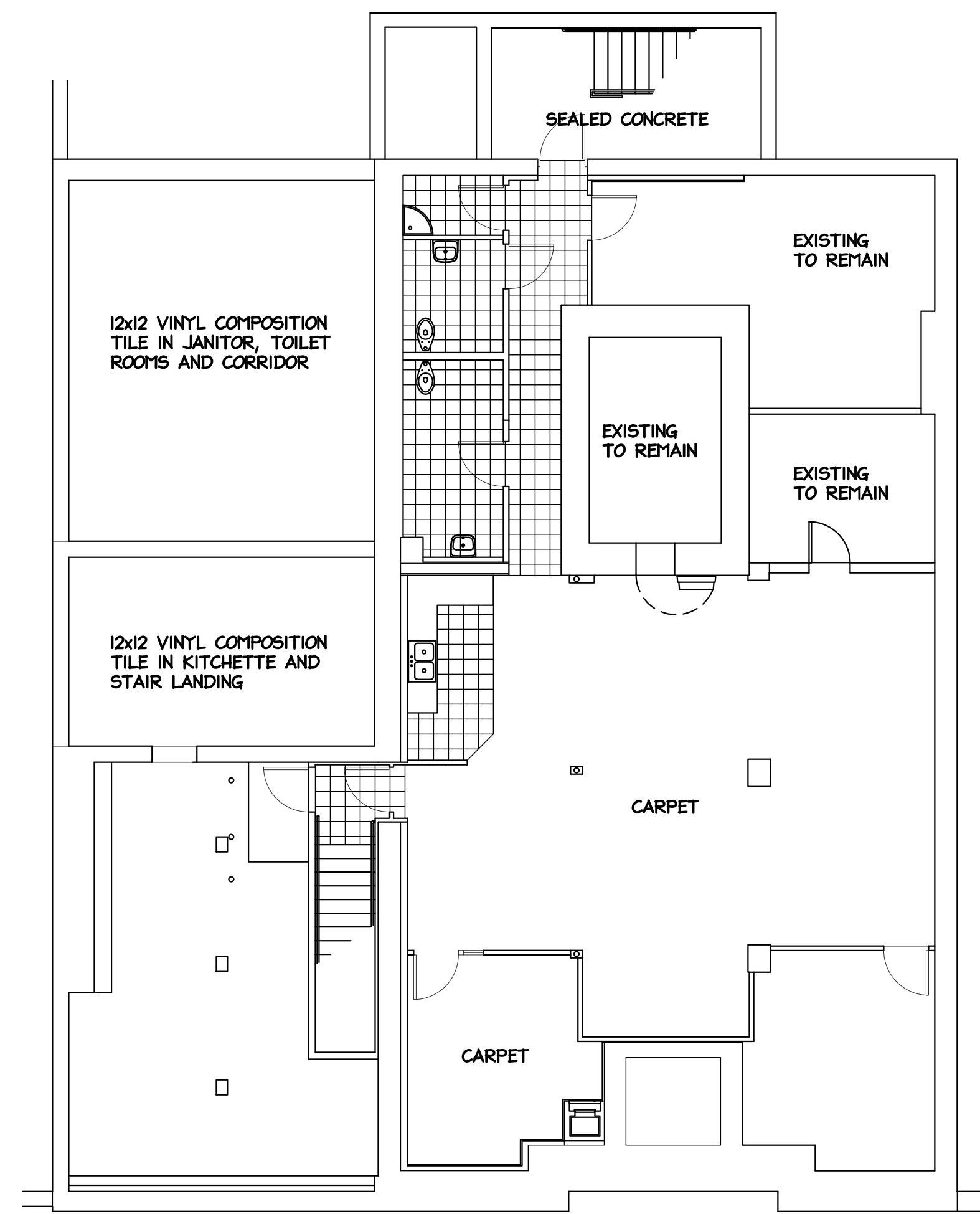
SECOND FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"

REVISION/ISSUANCE	DATE	DRAWN BY	REVIEWED BY
1	05/26/23	LD	TLG
2			

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
171 N STATE ST
CARO, MI

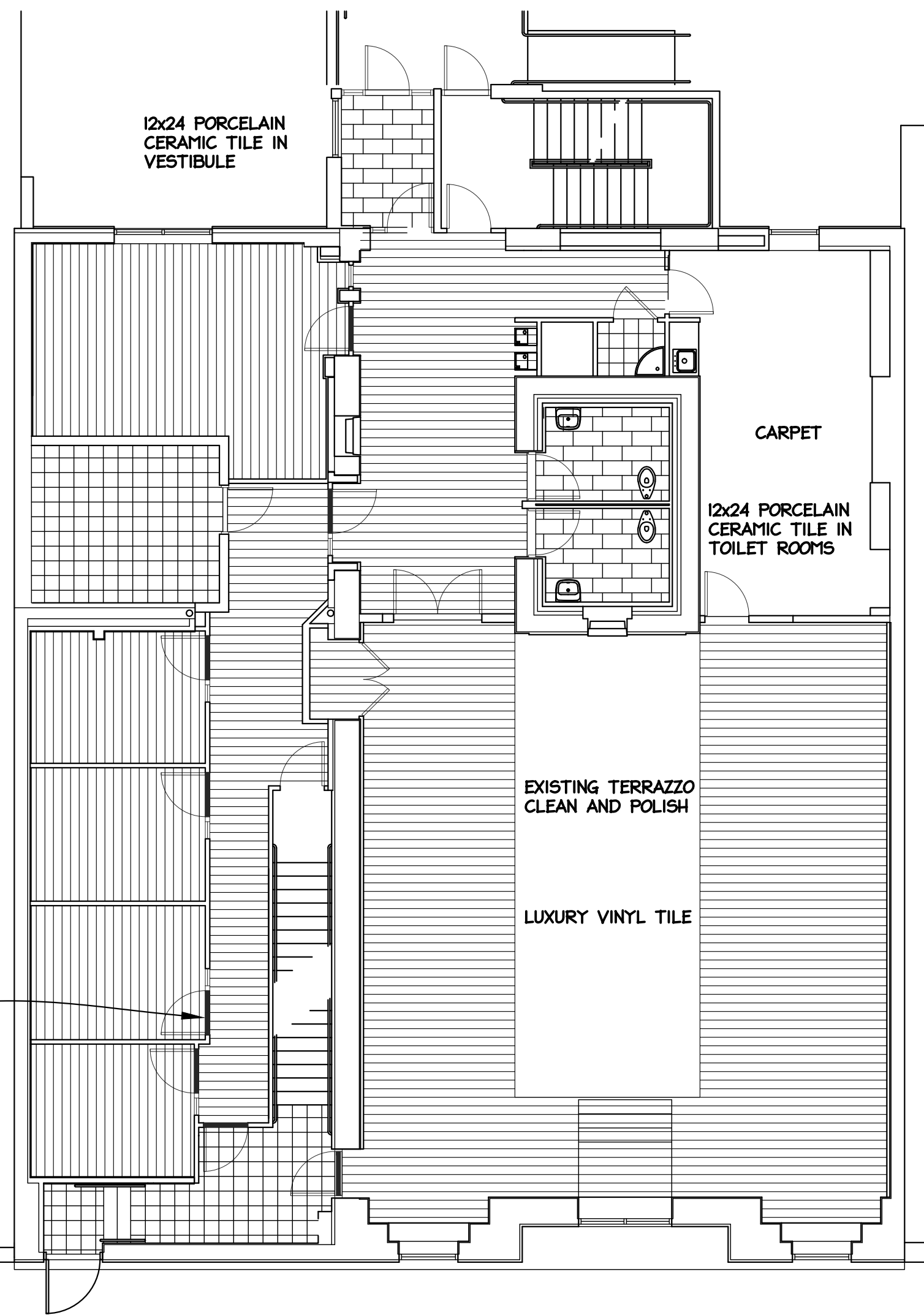
SECOND FLOOR REFLECTED CEILING PLAN AND DETAILS

NJB ARCHITECTS INC.
105+ Main Street
Flushing, Michigan 48433
810-659-7118 voice
810-659-7224 fax
www.njb-architects.com



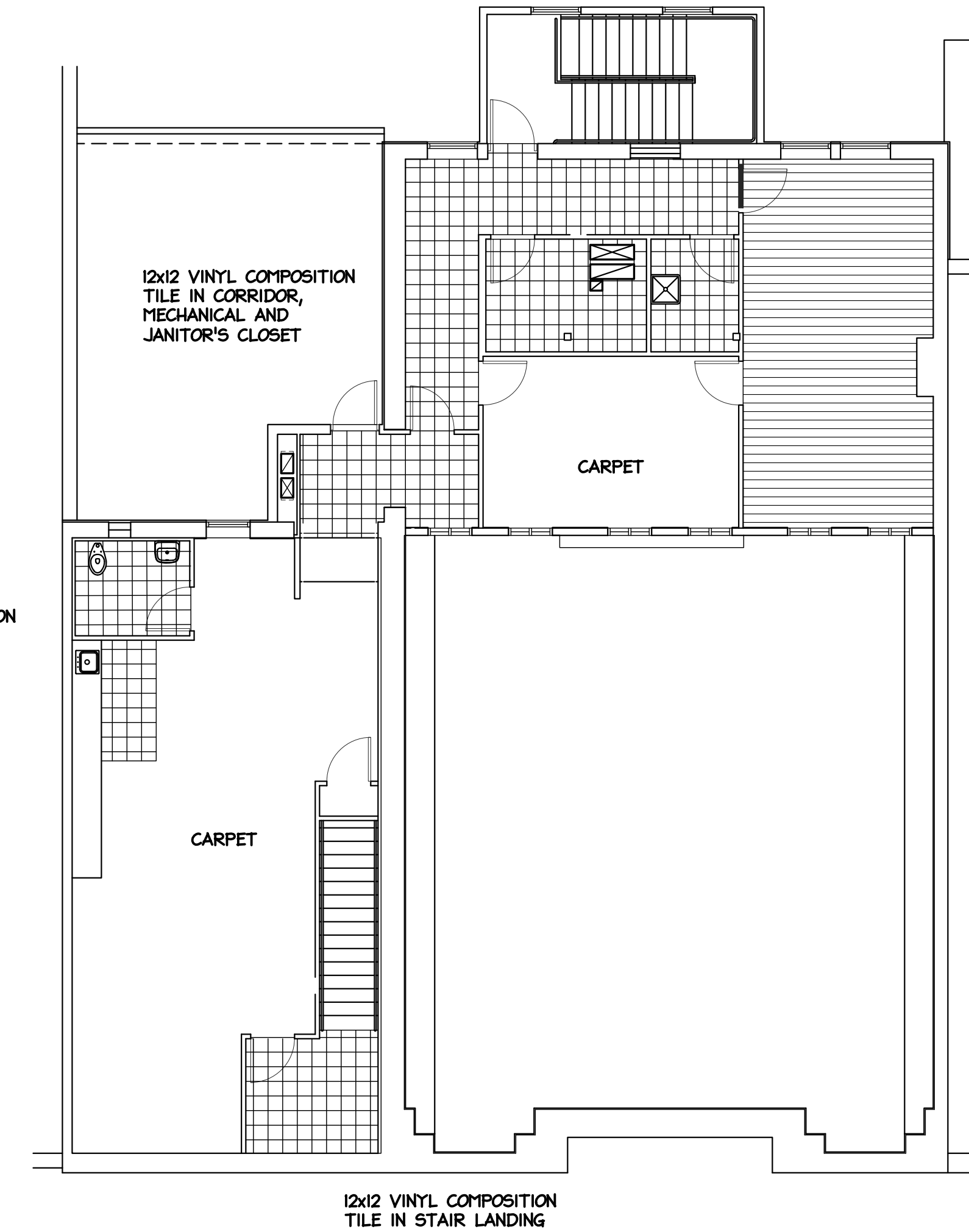
LOWER LEVEL FLOORING PLAN
 1/8" = 1'-0"

- WHERE DIFFERENT FLOORING TYPES MEET INSTALL TRANSITION STRIPS AT EDGES. SEE SPECIFICATION.



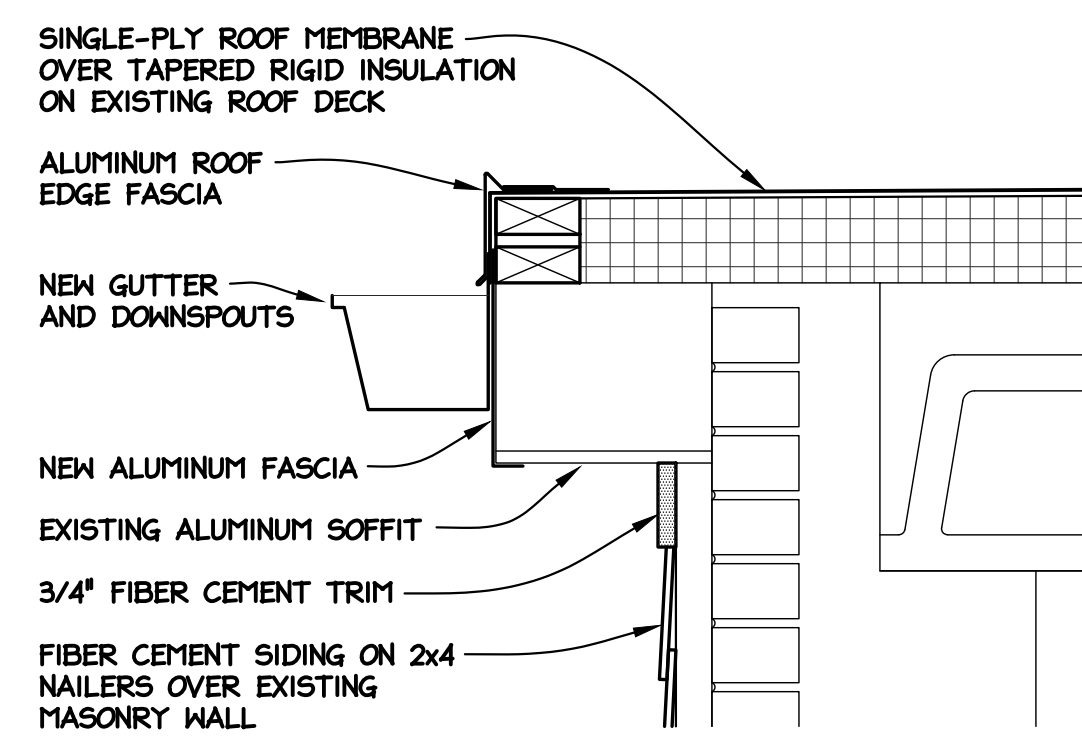
FIRST FLOOR FLOORING PLAN
 1/8" = 1'-0"

- WHERE DIFFERENT FLOORING TYPES MEET INSTALL TRANSITION STRIPS AT EDGES. SEE SPECIFICATION.
- LAY PORCELAIN CERAMIC TILE IN RUNNING BOND PATTERN OFFSET 1/2".
- INSTALL LVT PLANK TILE FLOORING IN MANUFACTURER'S RECOMMENDED STAGGER PATTERN.



SECOND FLOOR FLOORING PLAN
 1/8" = 1'-0"

- WHERE DIFFERENT FLOORING TYPES MEET INSTALL TRANSITION STRIPS AT EDGES. SEE SPECIFICATION.
- INSTALL LVT PLANK TILE FLOORING IN MANUFACTURER'S RECOMMENDED STAGGER PATTERN.



LOWER ROOF AREA ROOF EDGE SECTION
 1/2" = 1'-0"

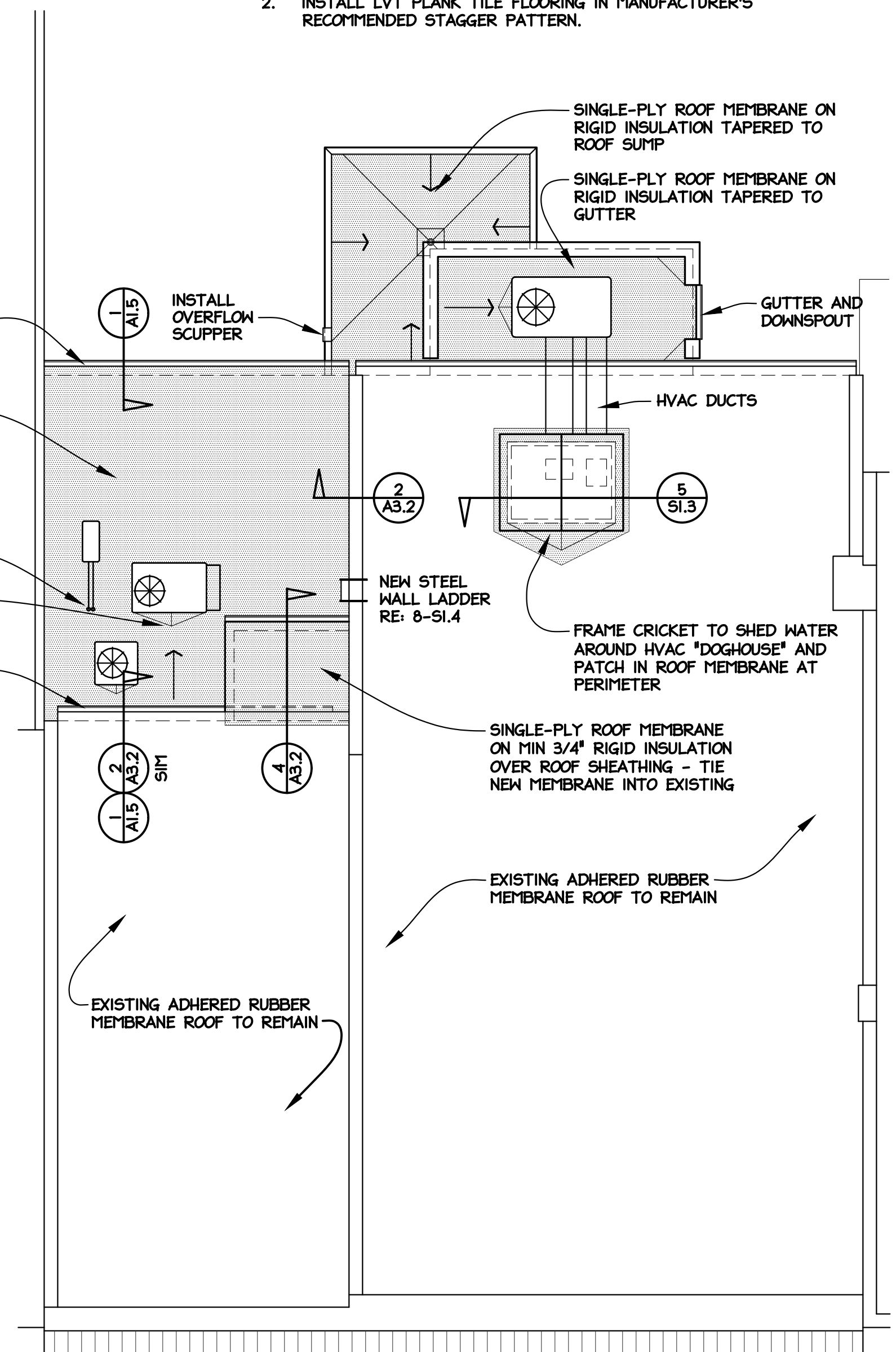
NOTE: INSTALL 3" RIGID INSULATION BASE LAYER PLUS TAPERED INSULATION (1/4" PER FOOT SLOPE) ON FLAT ROOF AREAS RECEIVING NEW ROOFING

INSTALL NEW GUTTER AND DOWNSPOUTS TYPICAL

REMOVE EXISTING BALLASTED ROOFING SYSTEM TO CONCRETE DECK ON LOWER ROOF - INSTALL NEW SINGLE-PLY MEMBRANE ROOF ON RIGID INSULATION TAPERED TO ROOF EDGE GUTTER

REFRIGERATE PIPING THRU ROOF
 PROVIDE TAPERED INSULATION CRICKET AT ROOFTOP UNITS - TYPICAL

INSTALL NEW GUTTER AND DOWNSPOUT TO REMAIN - REWORK AS REQUIRED FOR NEW ADDITION
 NOTE: INSTALL WALKWAY PADS AROUND ALL ROOFTOP UNITS



ROOF PLAN
 1/8" = 1'-0"

REV#	REVISION/DESCRIPTION	DATE	DRAWN BY	SCALE	AS NOTED	DATE
1	OWNER'S APPROVAL	04/27/23	LD			02/26/23
2	BID DOCUMENTS	05/26/23	LD	PROJECT NO. 220240	CAD FILE A104	

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES

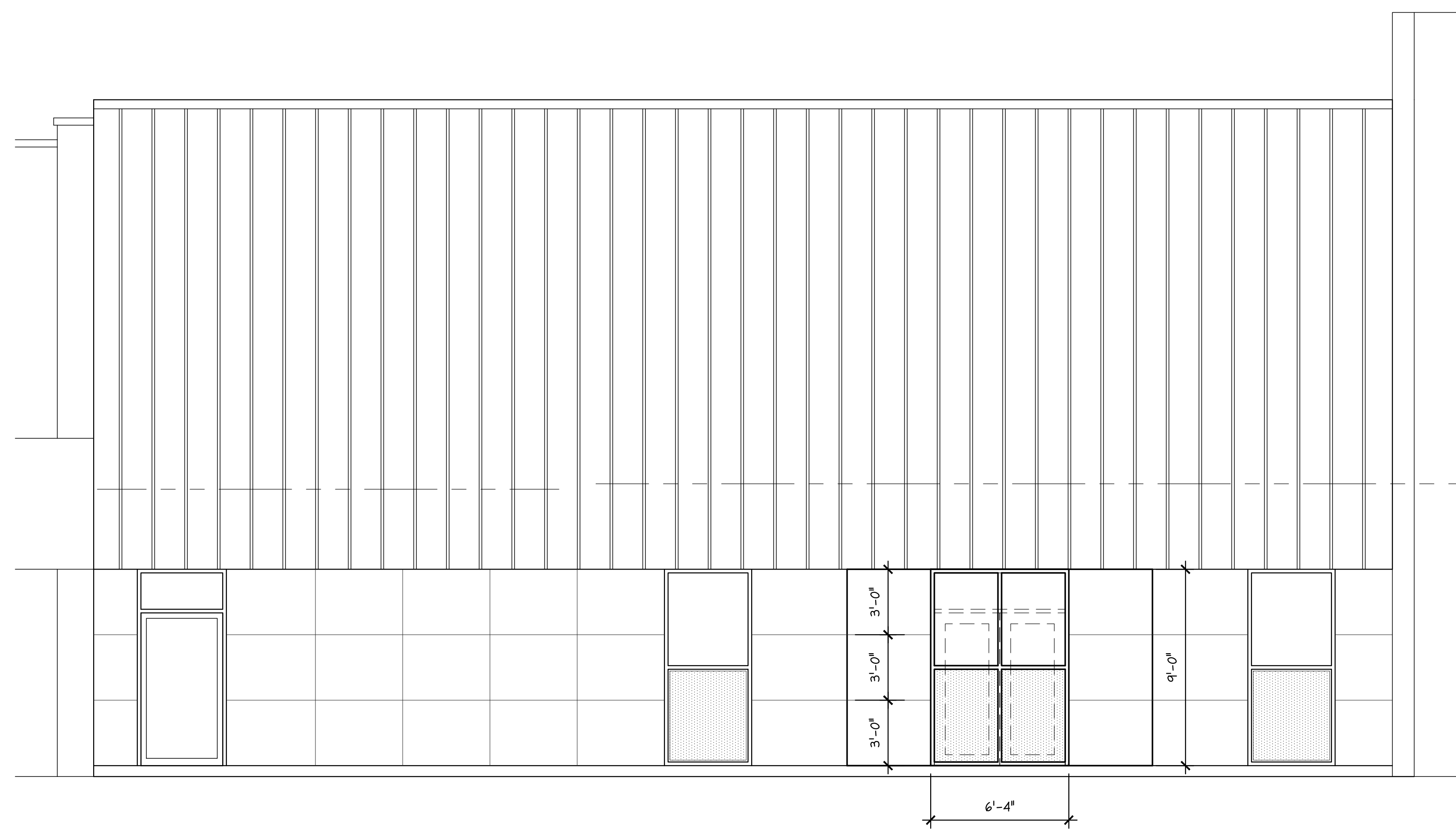
171 N STATE ST
 CARO, MI

FLOOR FINISH PLANS, ROOF PLAN AND DETAILS

NJB ARCHITECTS INC.
 105+ Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax

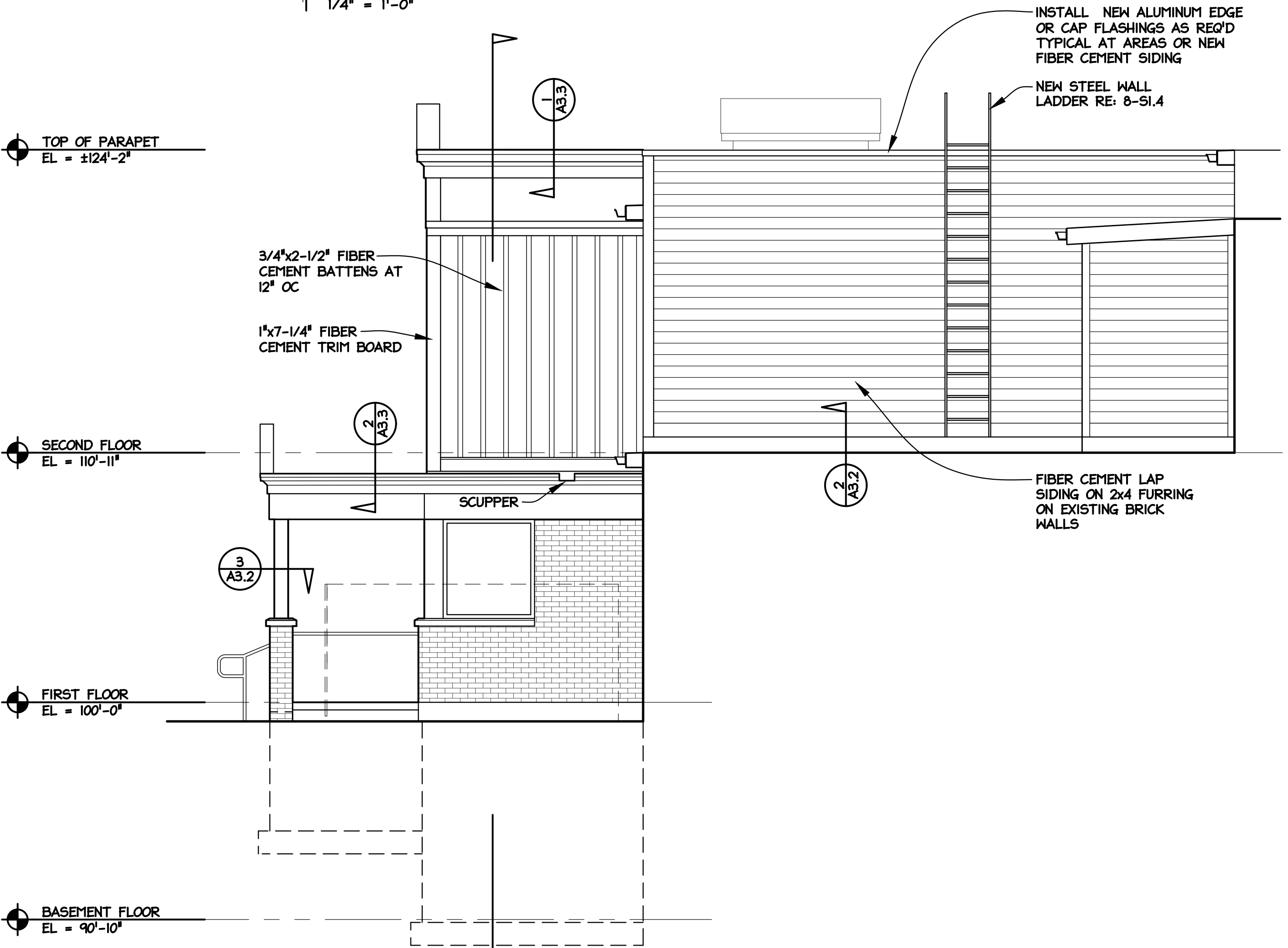
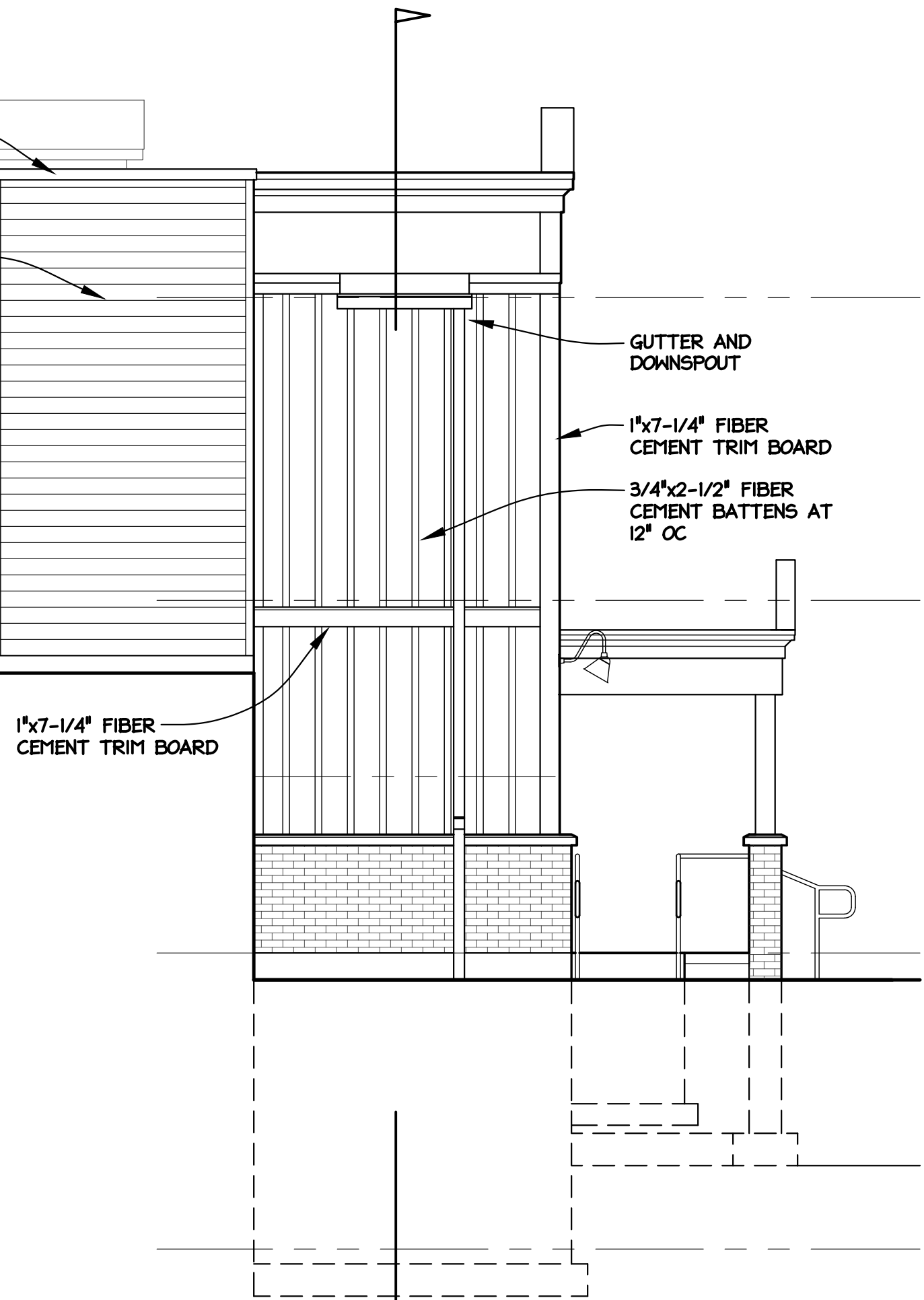
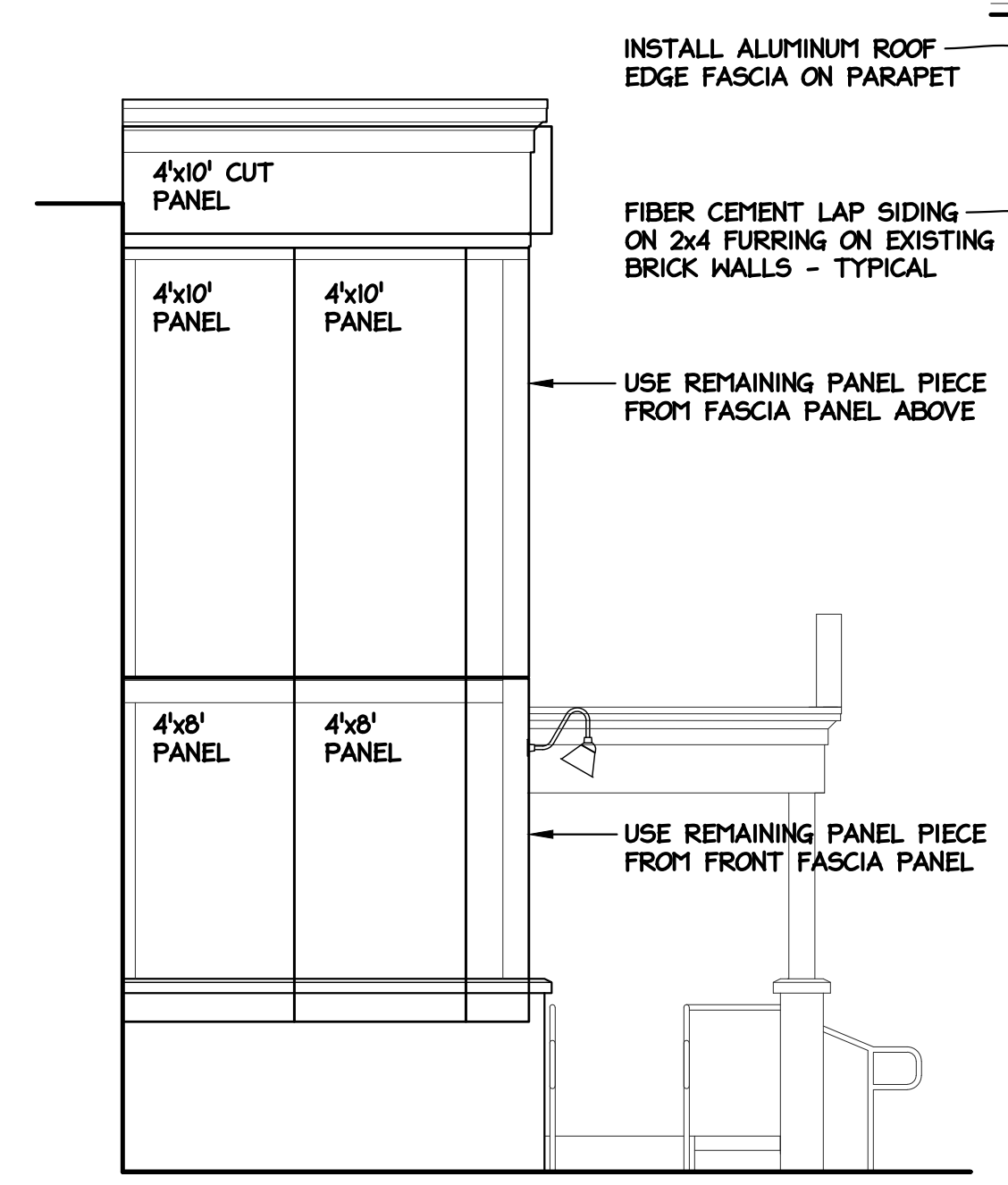
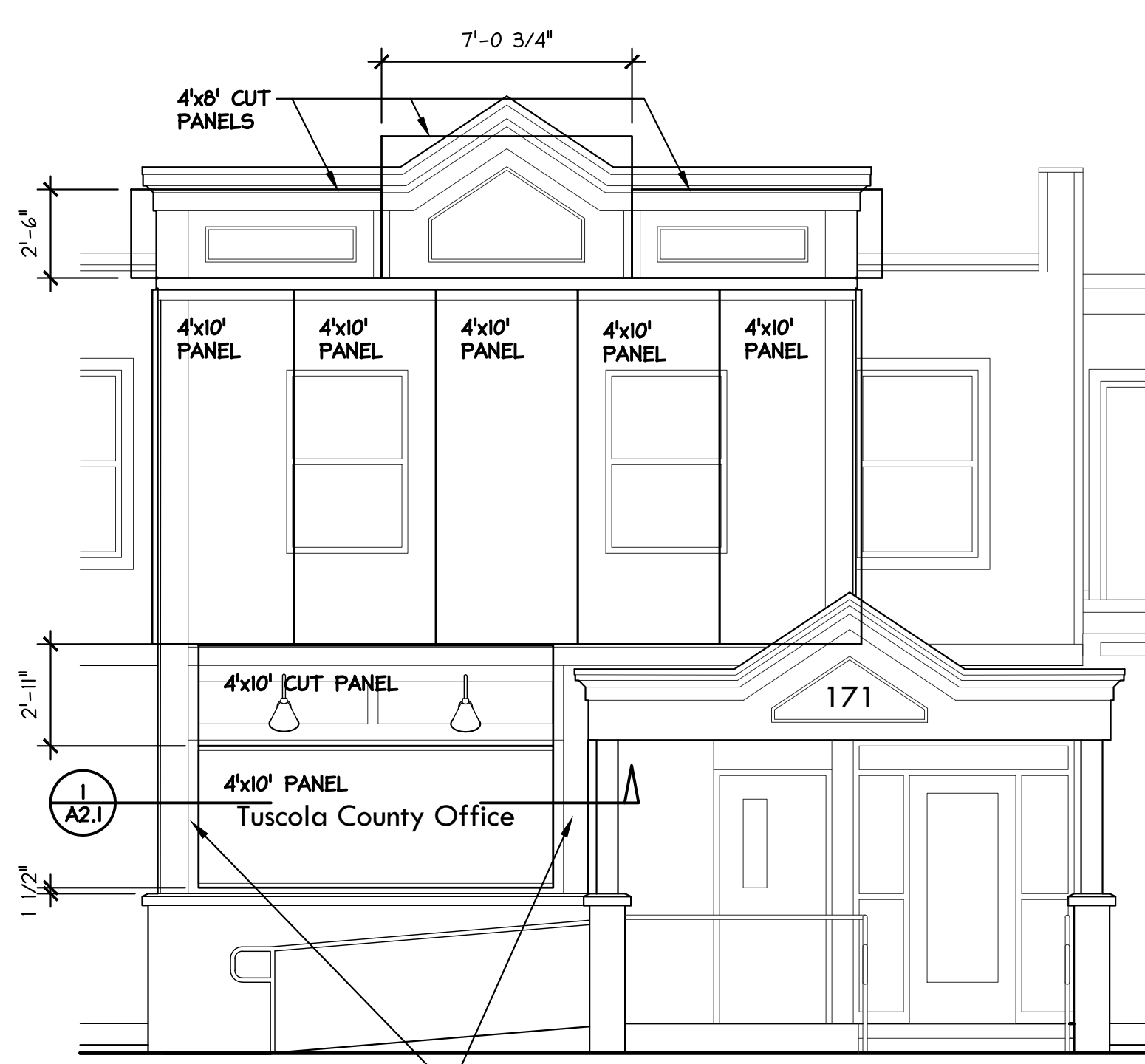
www.njb-architects.com

A1.5



SOUTH - FRONT ELEVATION
1/4" = 1'-0"

NORTH - REAR ELEVATION
1/4" = 1'-0"

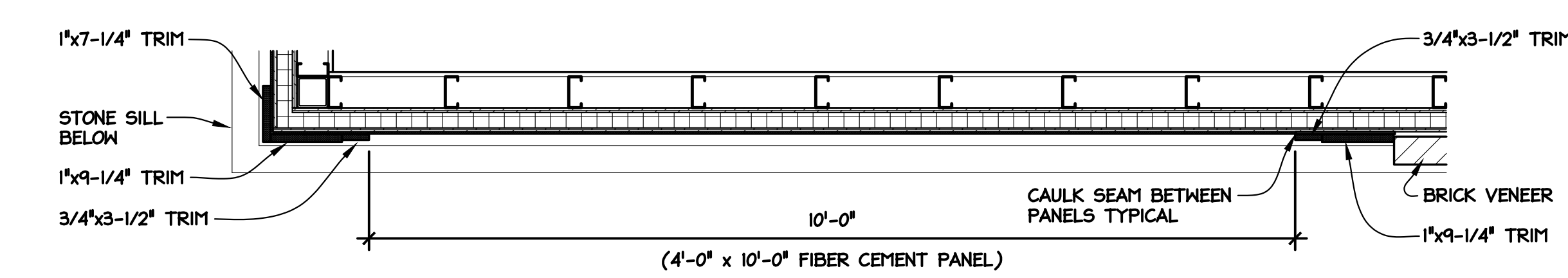


FIBER CEMENT PANEL LAYOUT
1/4" = 1'-0"

EAST AND WEST ELEVATIONS

EAST - SIDE ELEVATION
1/4" = 1'-0"

WEST - SIDE ELEVATION
1/4" = 1'-0"



PARTIAL TRIM / PANEL SECTION
3/4" = 1'-0"

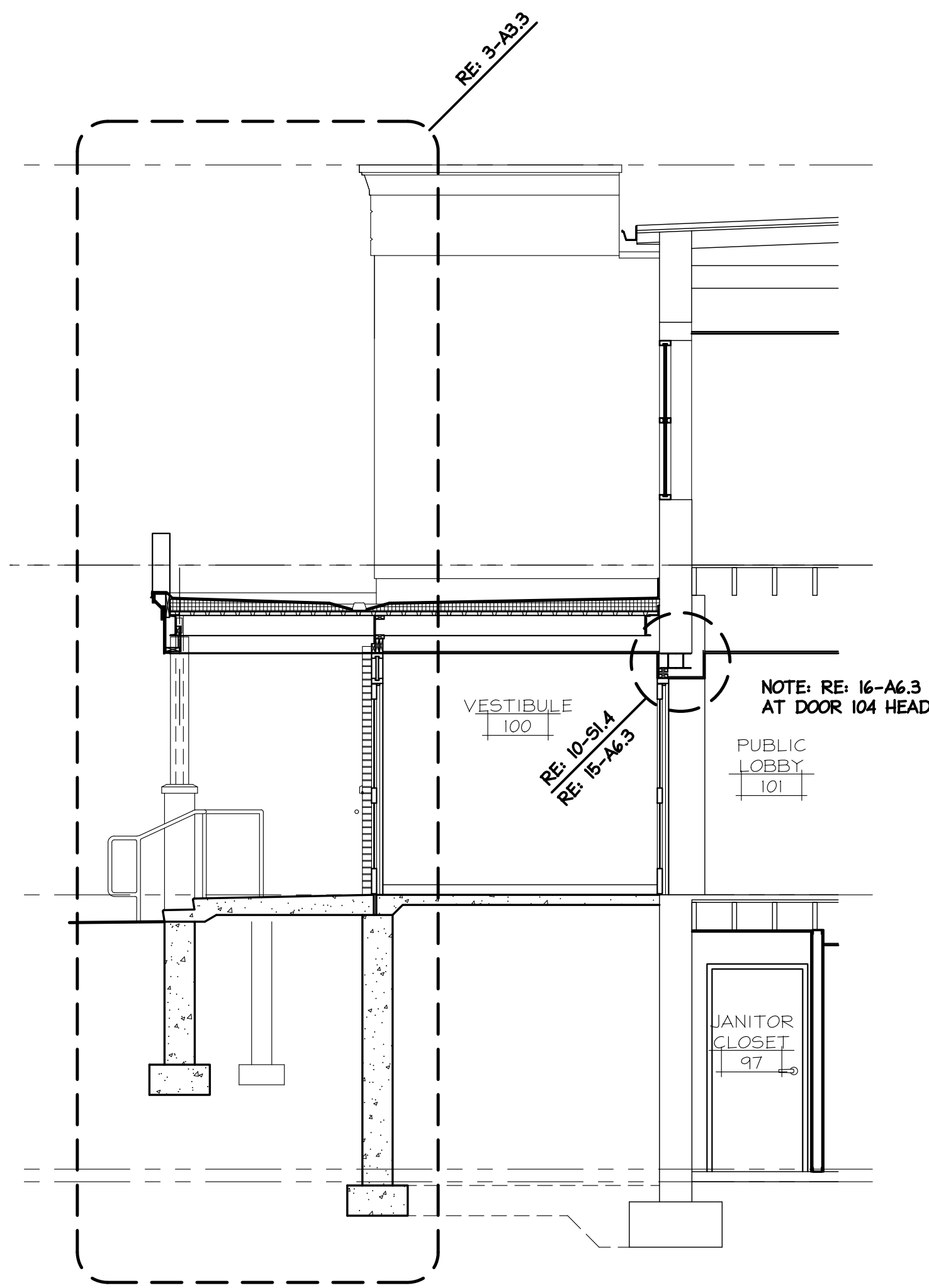
REVIEWED BY	TLC	SCALE	AS NOTED	DATE	05/26/23
DRAWN BY	LAD	PROJECT NO.	22240	CAD FILE	
DATE	04/27/23	OWNER'S APPROVAL	05/26/23		
REVISION/SUBMISSION		BID DOCUMENTS			
REV #	1				
	2				

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
171 N STATE ST
CARO, MI
EXTERIOR ELEVATIONS

NJB ARCHITECTS INC.
105+ Main Street
Flushing, Michigan 48433
810-659-7118 voice
810-659-7224 fax

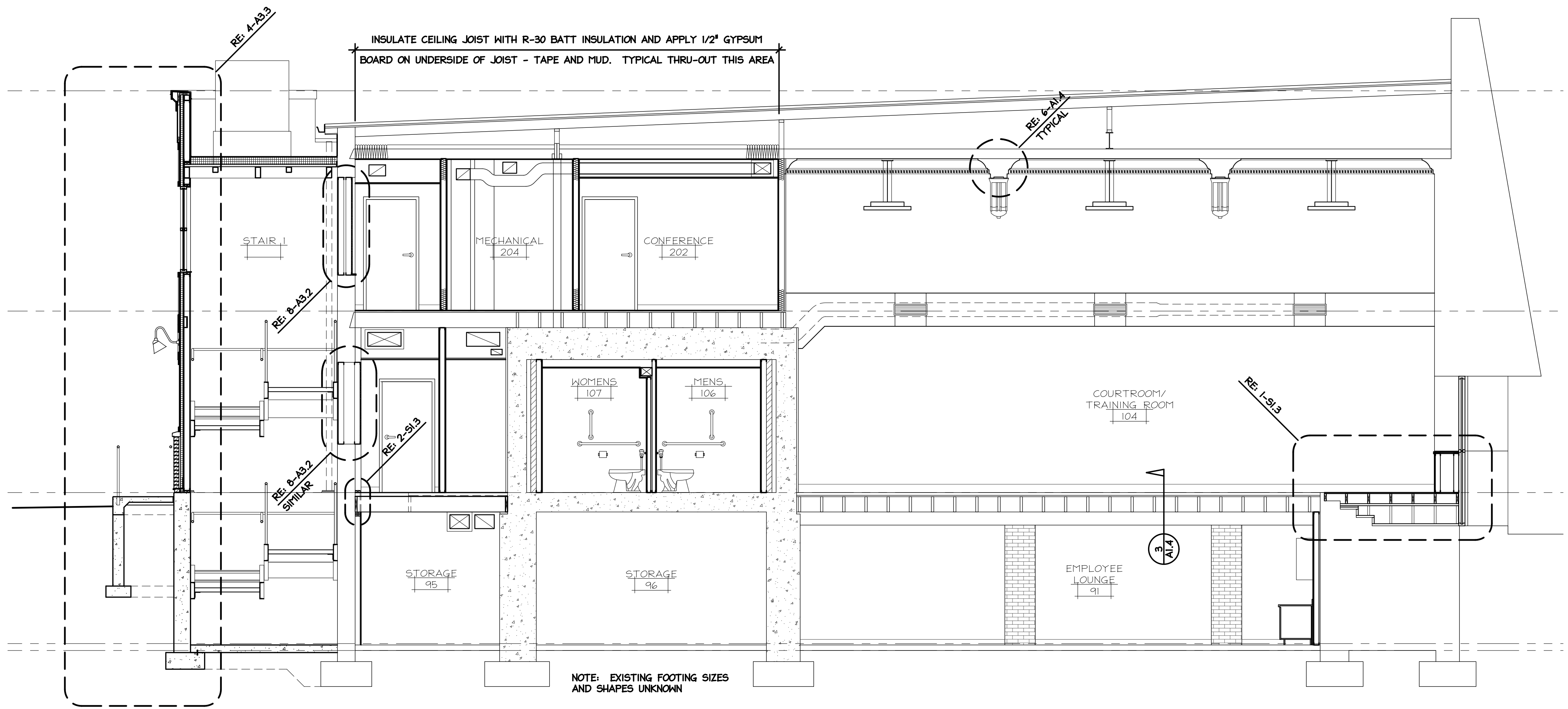
www.njb-architects.com

A2.1



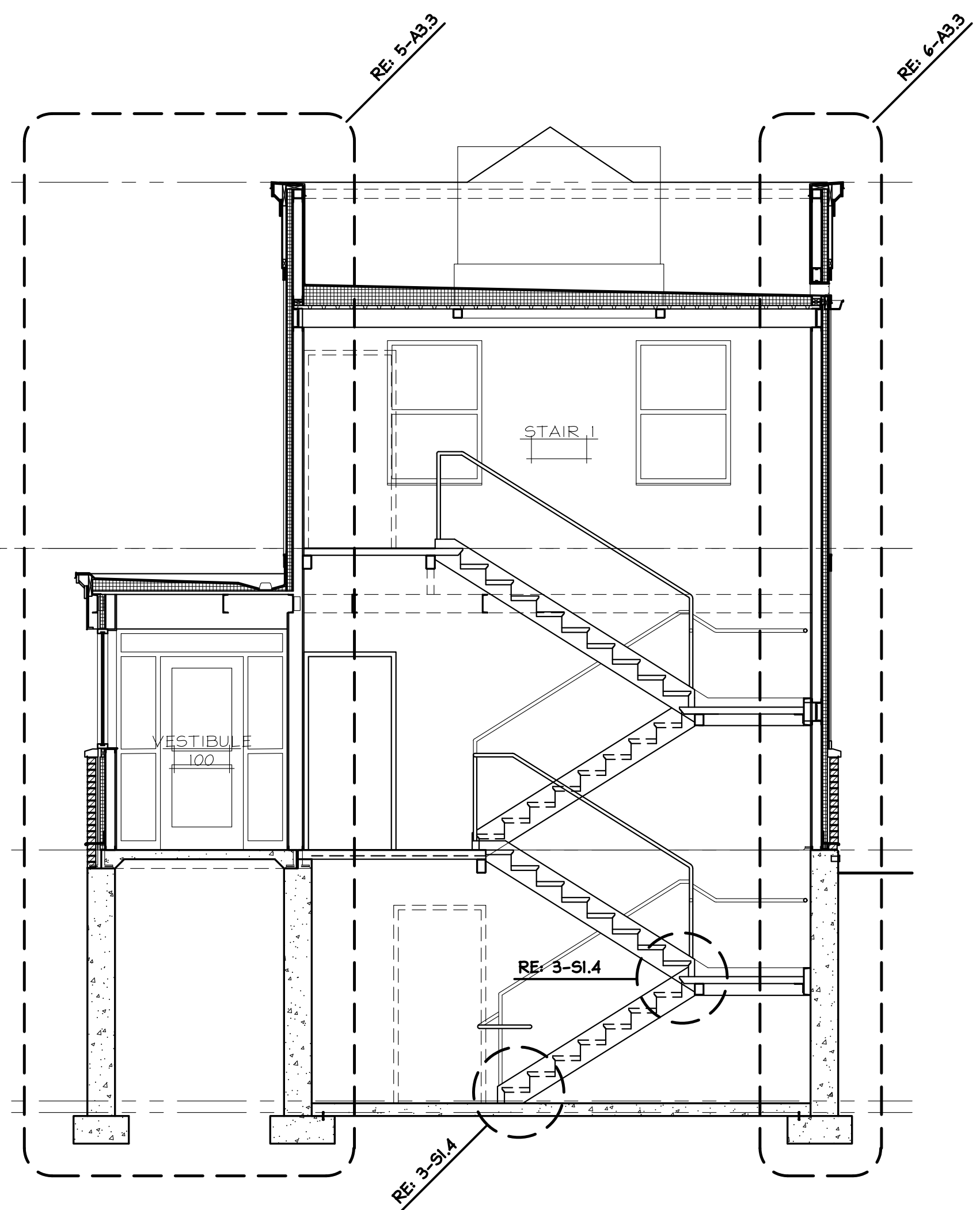
A-A PARTIAL BUILDING SECTION
1/4" = 1'-0"

- TOP OF STEEL EL. = 123'-11"
- TOP OF STEEL EL. = 119'-7"
- SECOND FLOOR EL. = 110'-11"
- TOP OF STEEL EL. = 109'-3"
- FIRST FLOOR EL. = 107'-0"
- BASEMENT FLOOR EL. = 97'-10"



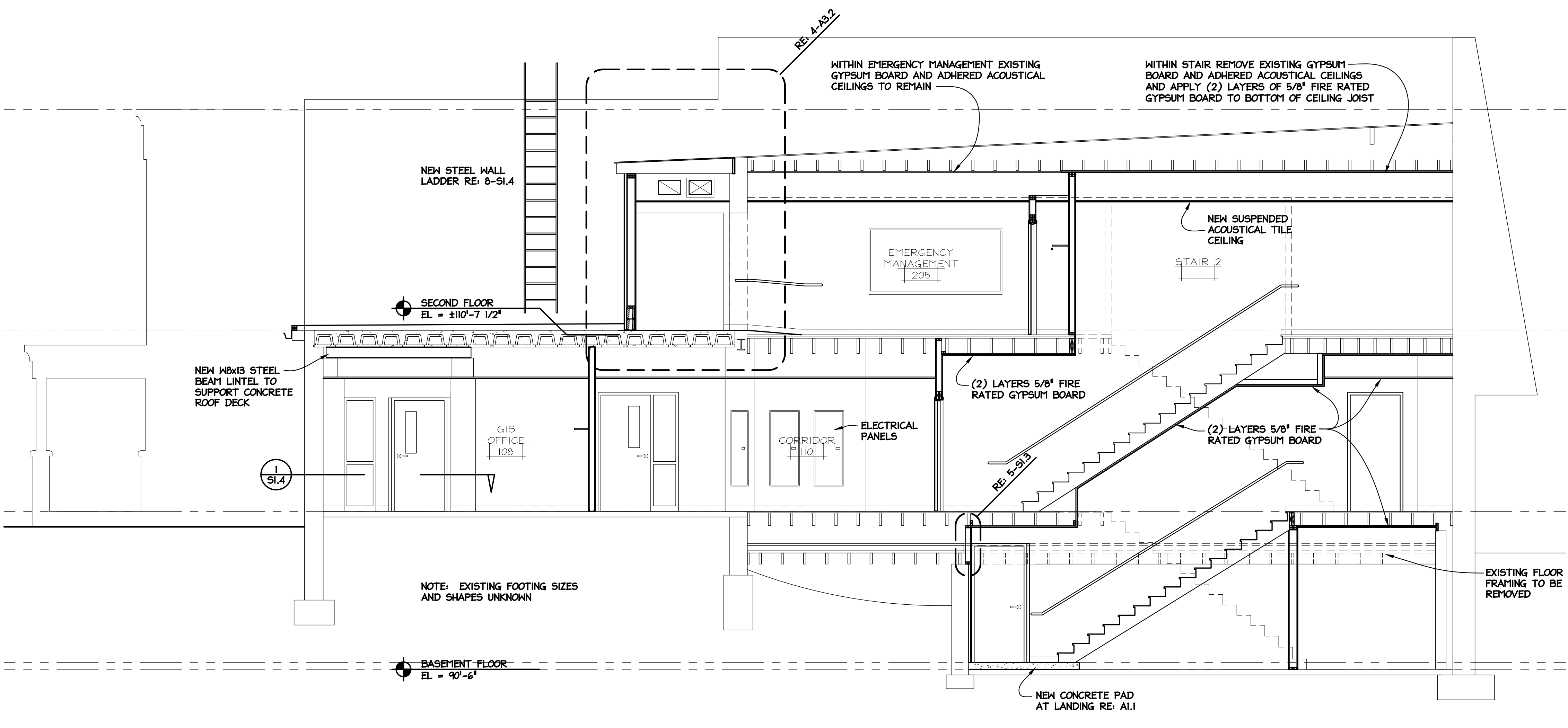
B-B BUILDING SECTION
1/4" = 1'-0"

NOTE: EXISTING FOOTING SIZES AND SHAPES UNKNOWN



C-C PARTIAL BUILDING SECTION
1/4" = 1'-0"

- TOP OF STEEL EL. = 123'-11"
- TOP OF STEEL EL. = 119'-7"
- SECOND FLOOR EL. = 110'-11"
- TOP OF STEEL EL. = 109'-3"
- FIRST FLOOR EL. = 107'-0"
- BASEMENT FLOOR EL. = 97'-10"



D-D BUILDING SECTION
1/4" = 1'-0"

NOTE: EXISTING FOOTING SIZES AND SHAPES UNKNOWN

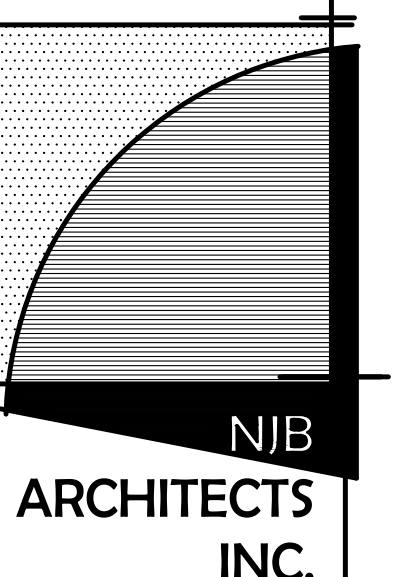
Seal

REVIEWED BY	TJG	SCALE	AS NOTED	DATE	05/26/23
DRAWN BY	LFD	PROJECT NO.	20240	CAD FILE	
DATE	04/27/23				
REVISIONS/ISSUANCE	05/26/23				
1	OWNERS APPROVAL				
2	BID DOCUMENTS				

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES

171 N STATE ST
CARO, MI

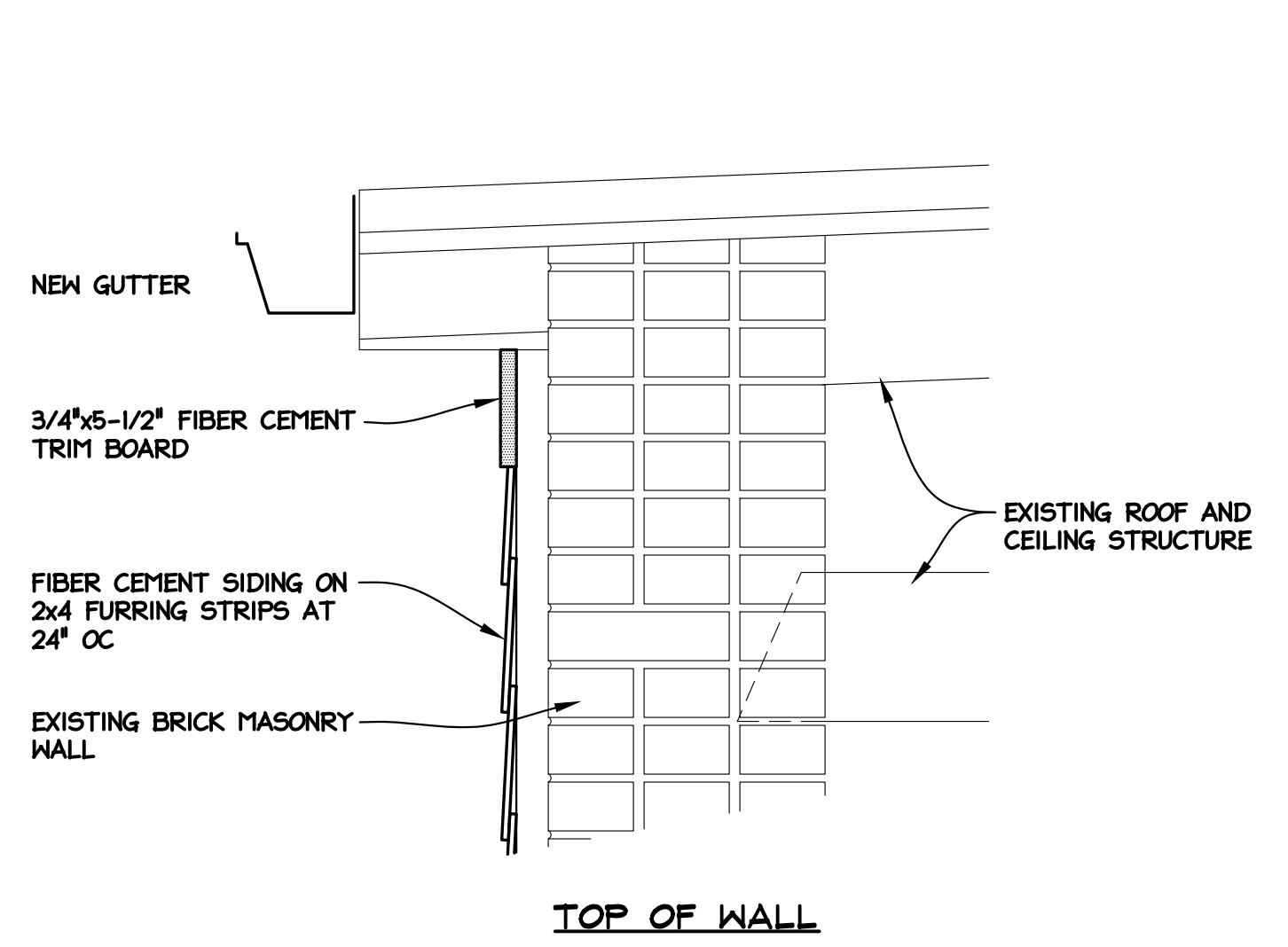
BUILDING SECTIONS



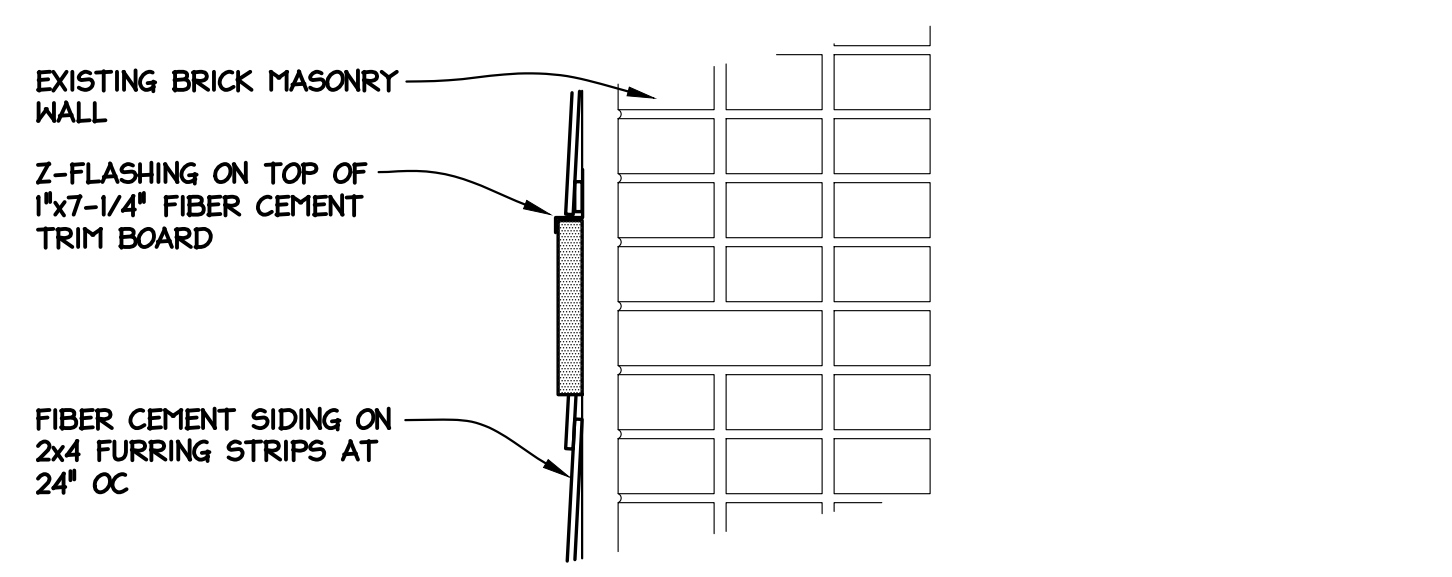
105+ Main Street
Flushing, Michigan 48433
810-659-7118 voice
810-659-7224 fax

www.njba-architects.com

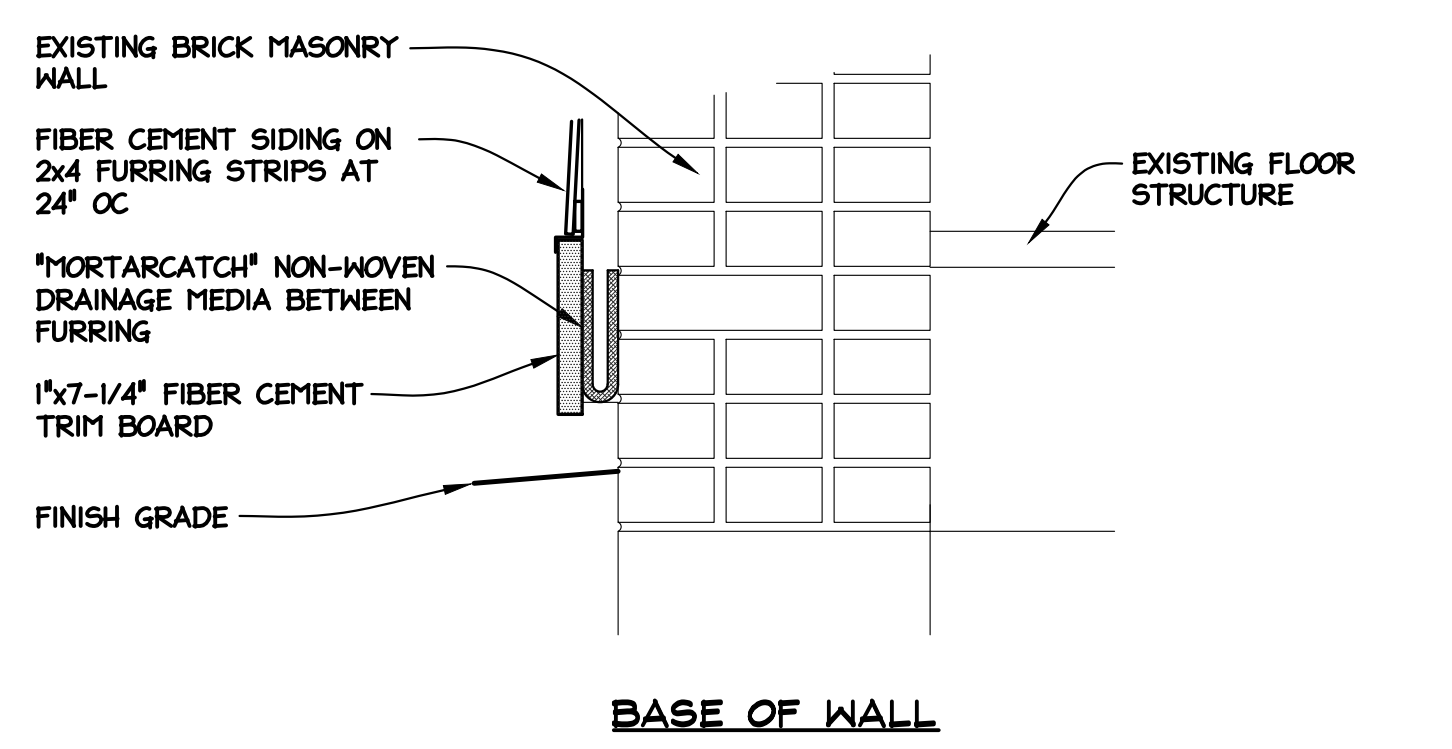
A3.1



TOP OF WALL

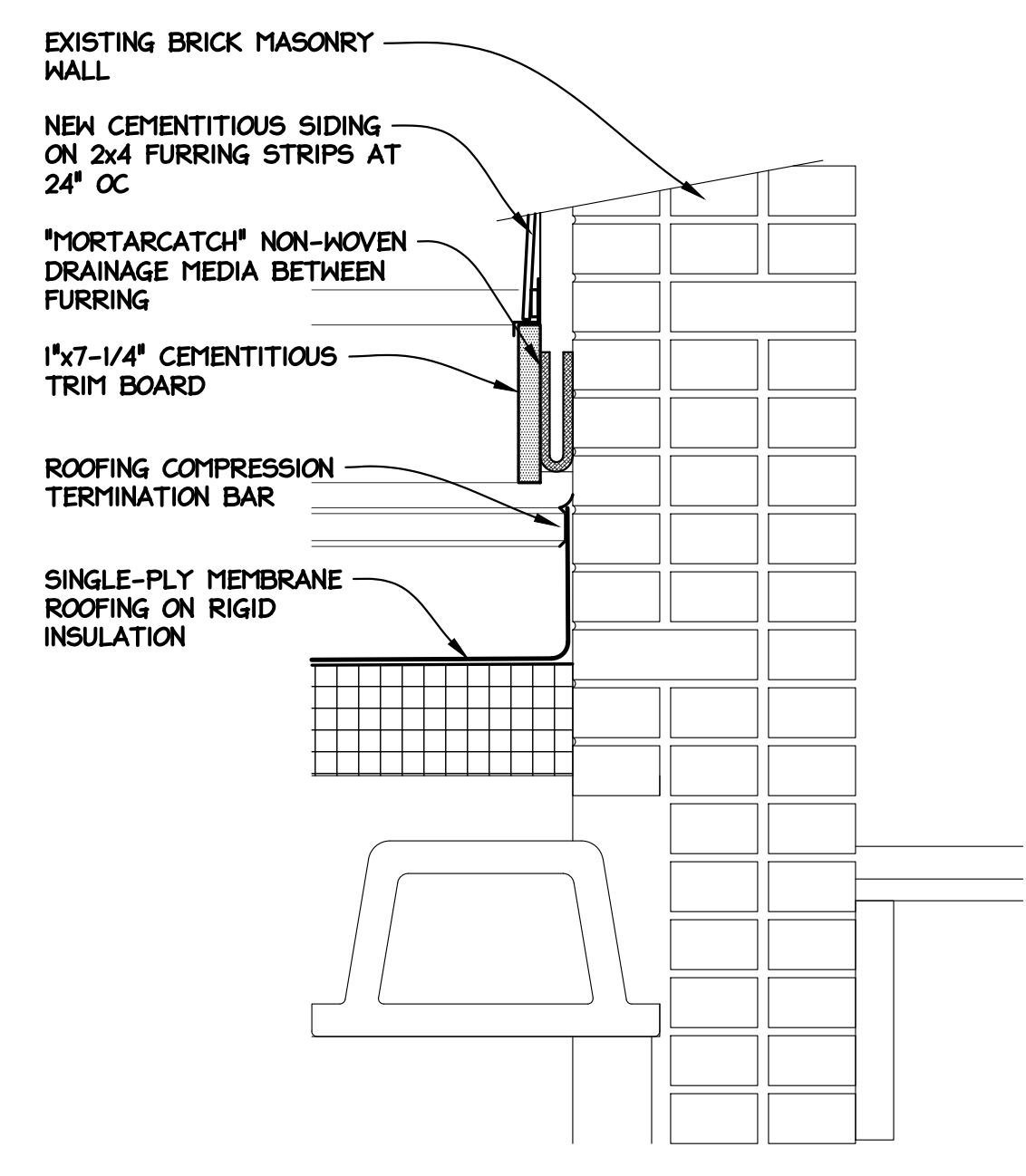


MID-SECTION OF WALL



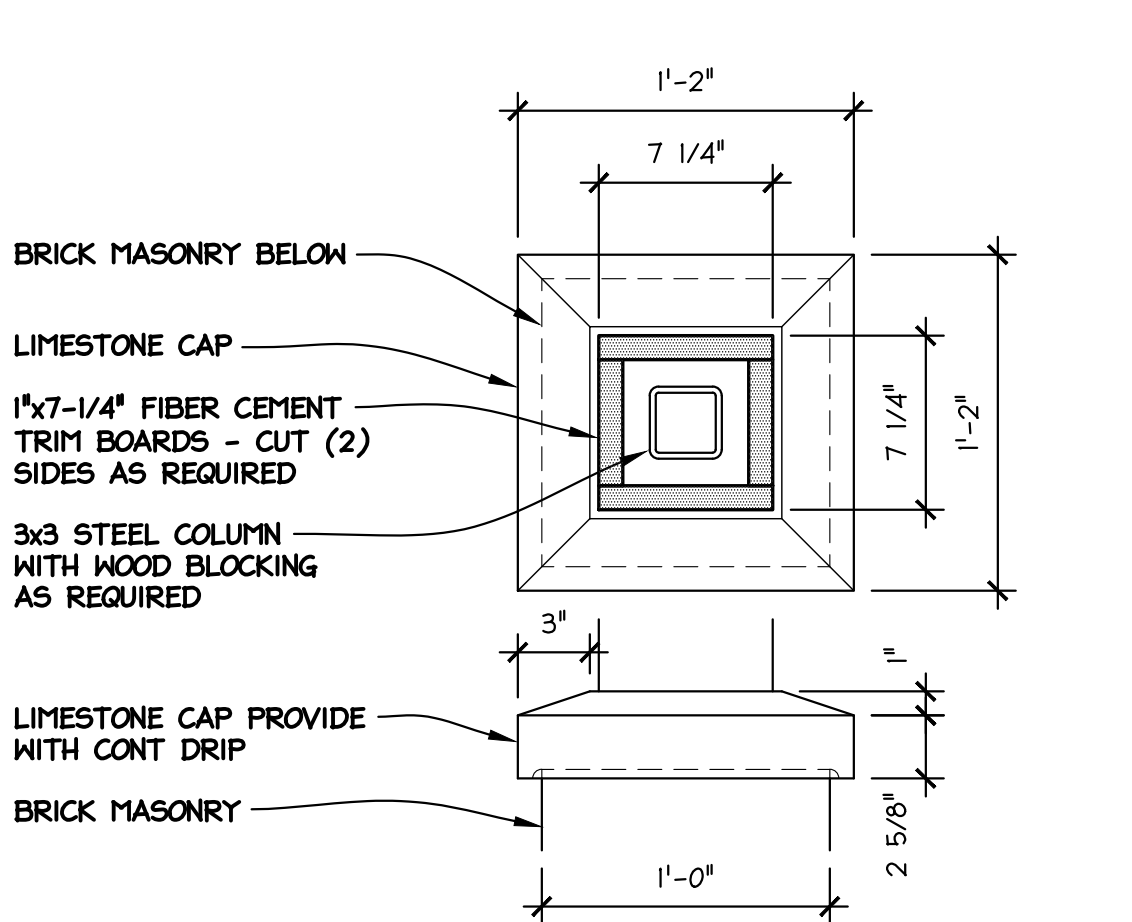
BASE OF WALL

1 EXISTING MASONRY WALL SIDING SECTION
1-1/2" = 1'-0"

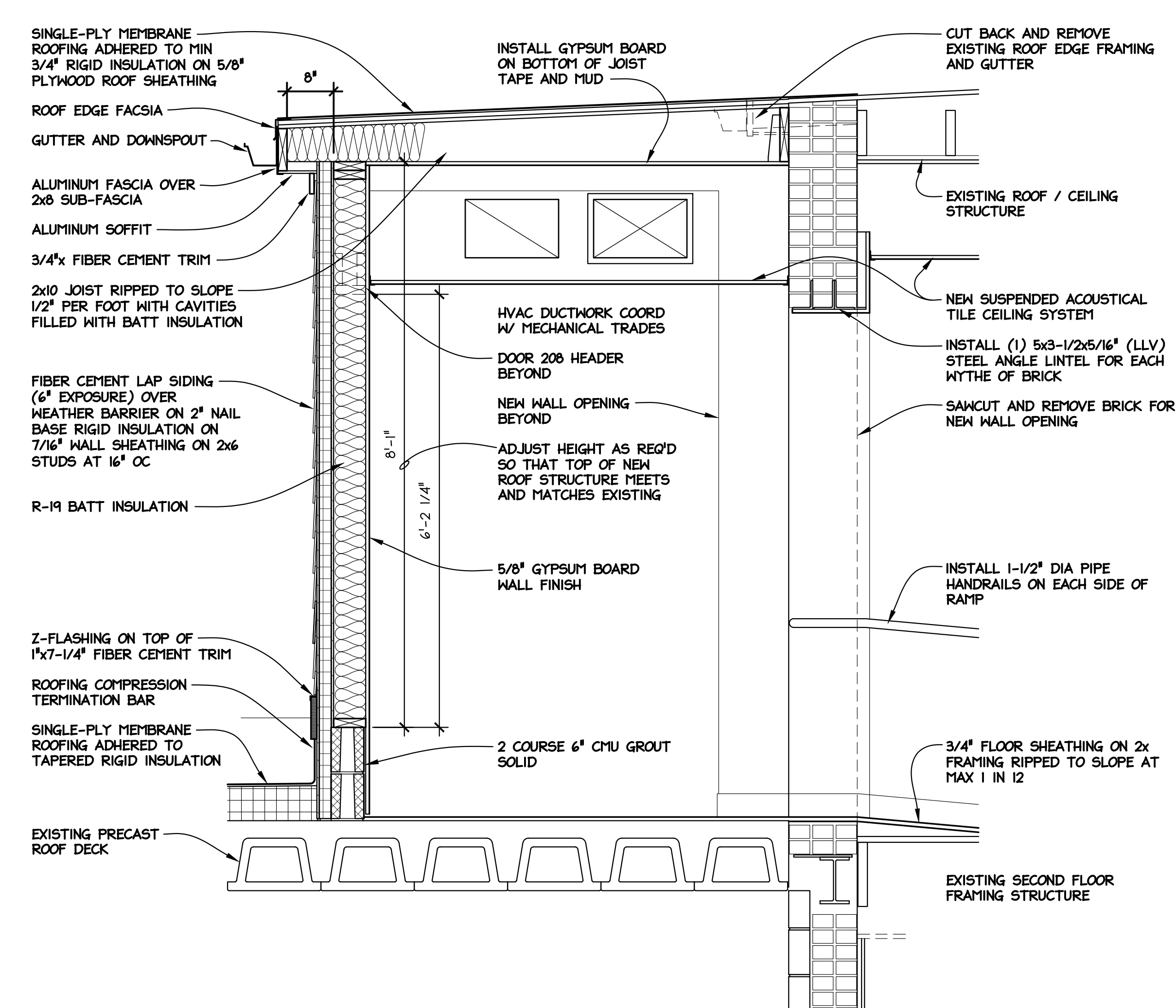


BASE OF SIDING AT ROOF

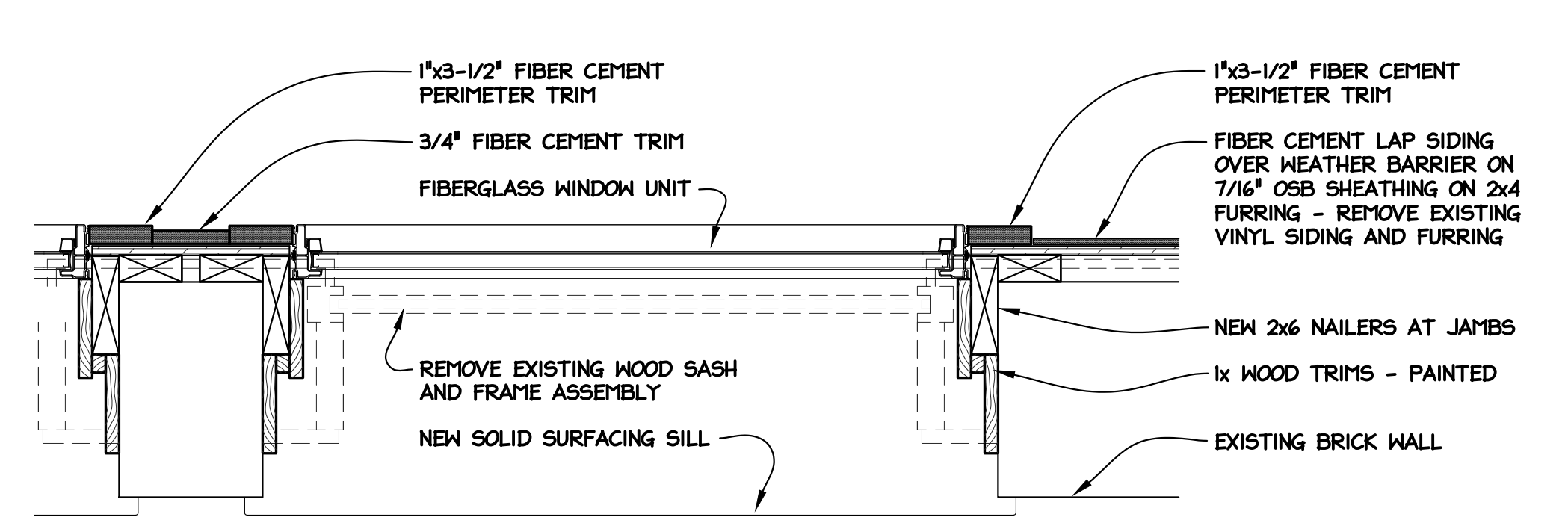
2 EXISTING MASONRY WALL SIDING SECTION
1-1/2" = 1'-0"



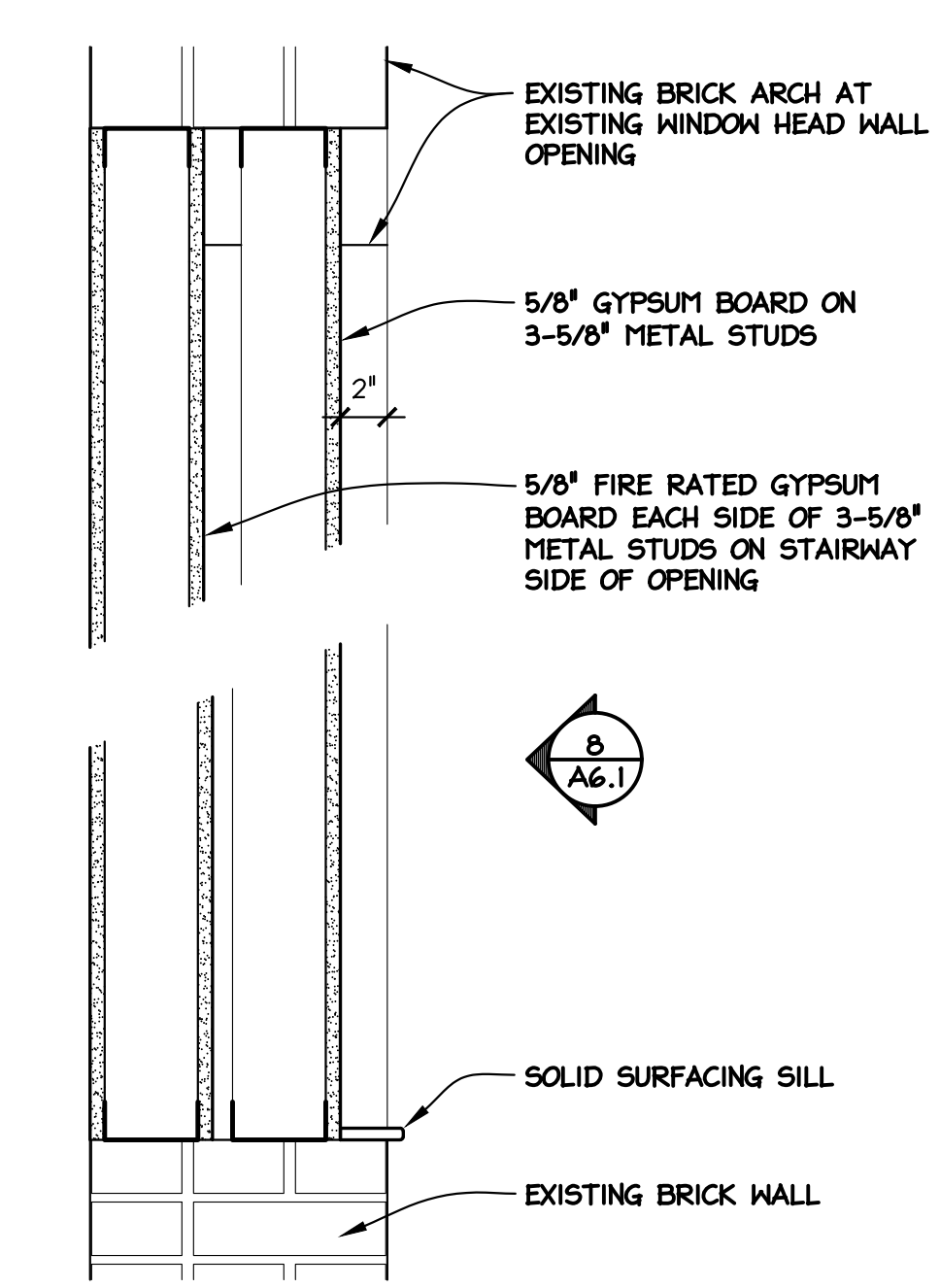
3 ENTRY CANOPY COLUMN SECTION
1-1/2" = 1'-0"



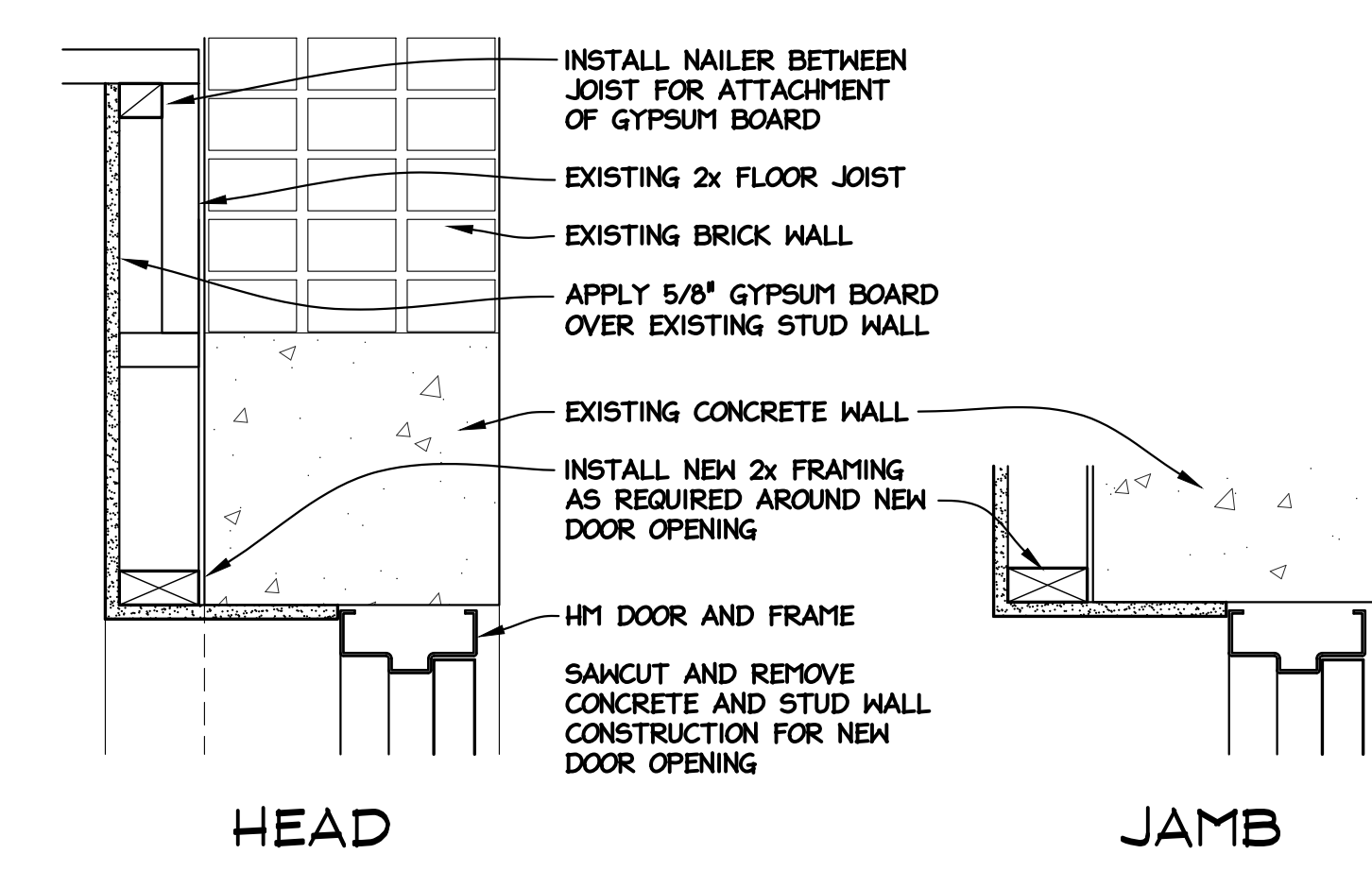
4 CORRIDOR 200A WALL SECTIONS
3/4" = 1'-0"



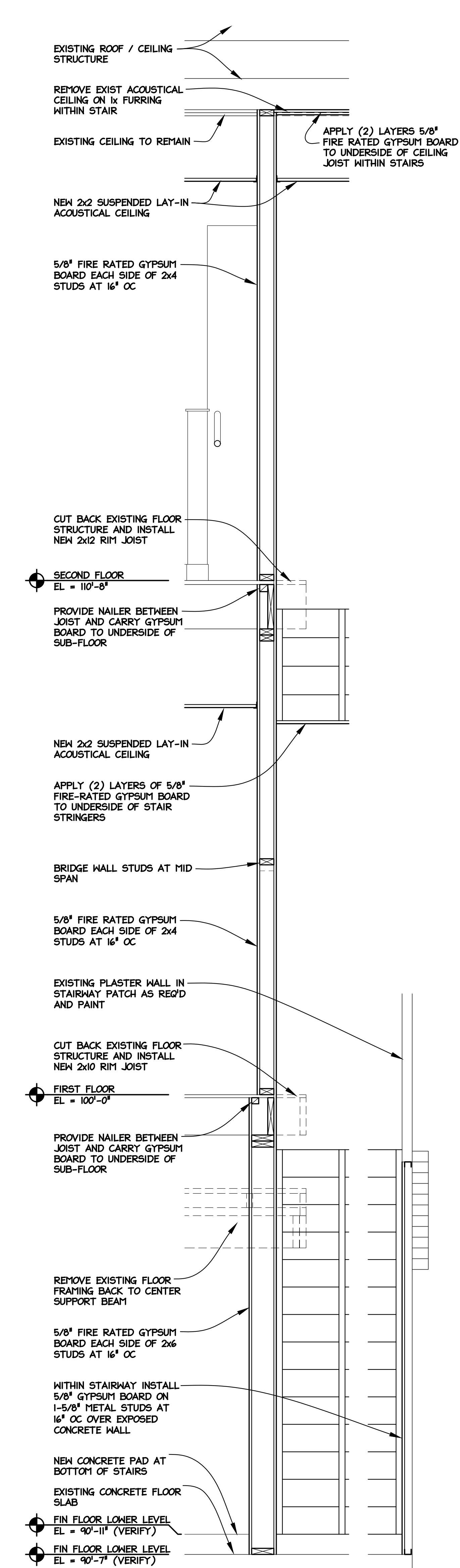
5 EXISTING BUILDING WINDOW REPLACEMENT WINDOW JAMB SECTION
1-1/2" = 1'-0"



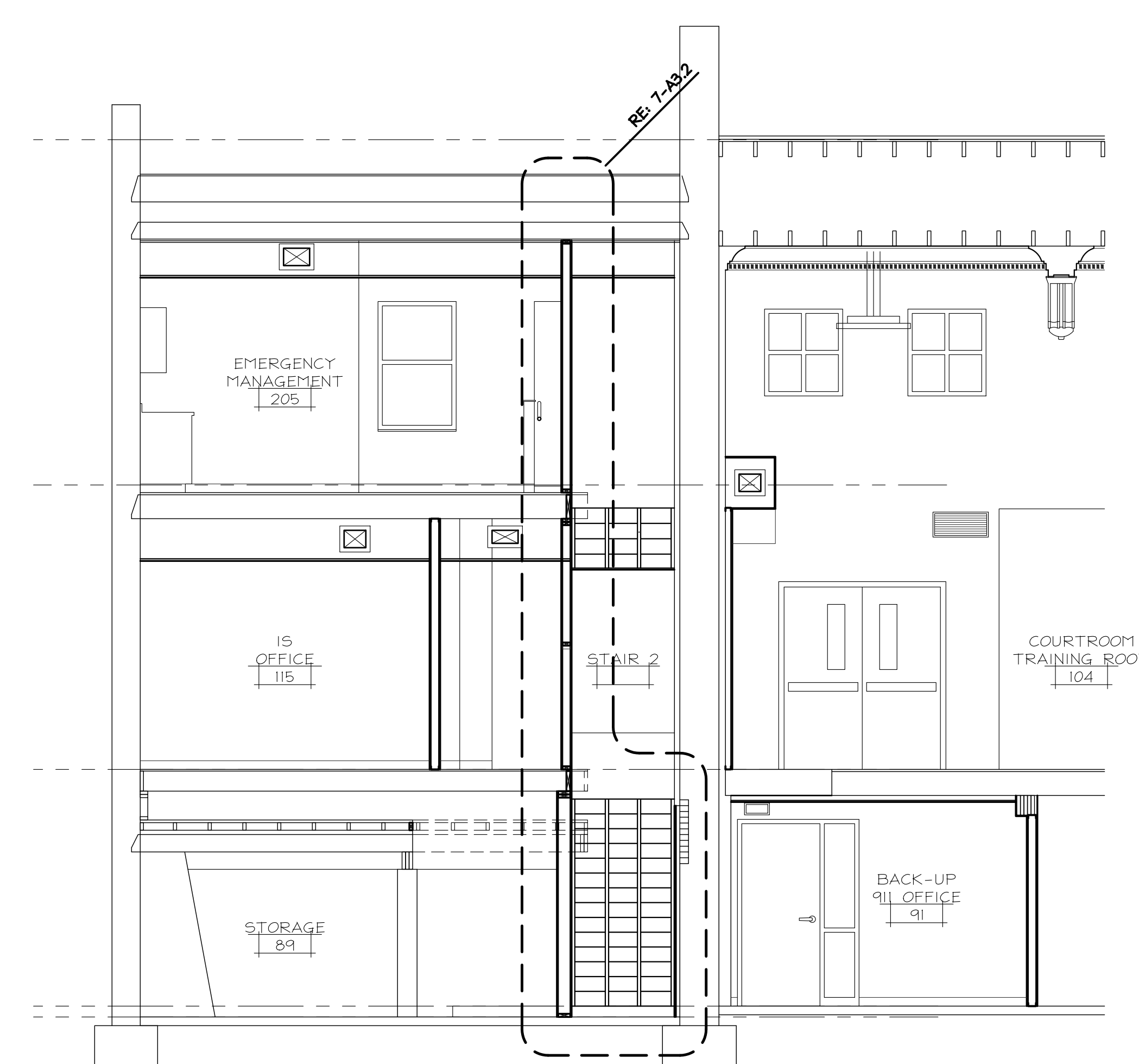
6 STAIR 1 - EXISTING WINDOW OPENING INFILL SECTION
1-1/2" = 1'-0"



6 DOOR 01 DOOR HEAD AND JAMB
1-1/2" = 1'-0"



7 STAIR 2 - EAST WALL SECTION
3/4" = 1'-0"



8 BUILDING SECTION
1/4" = 1'-0"

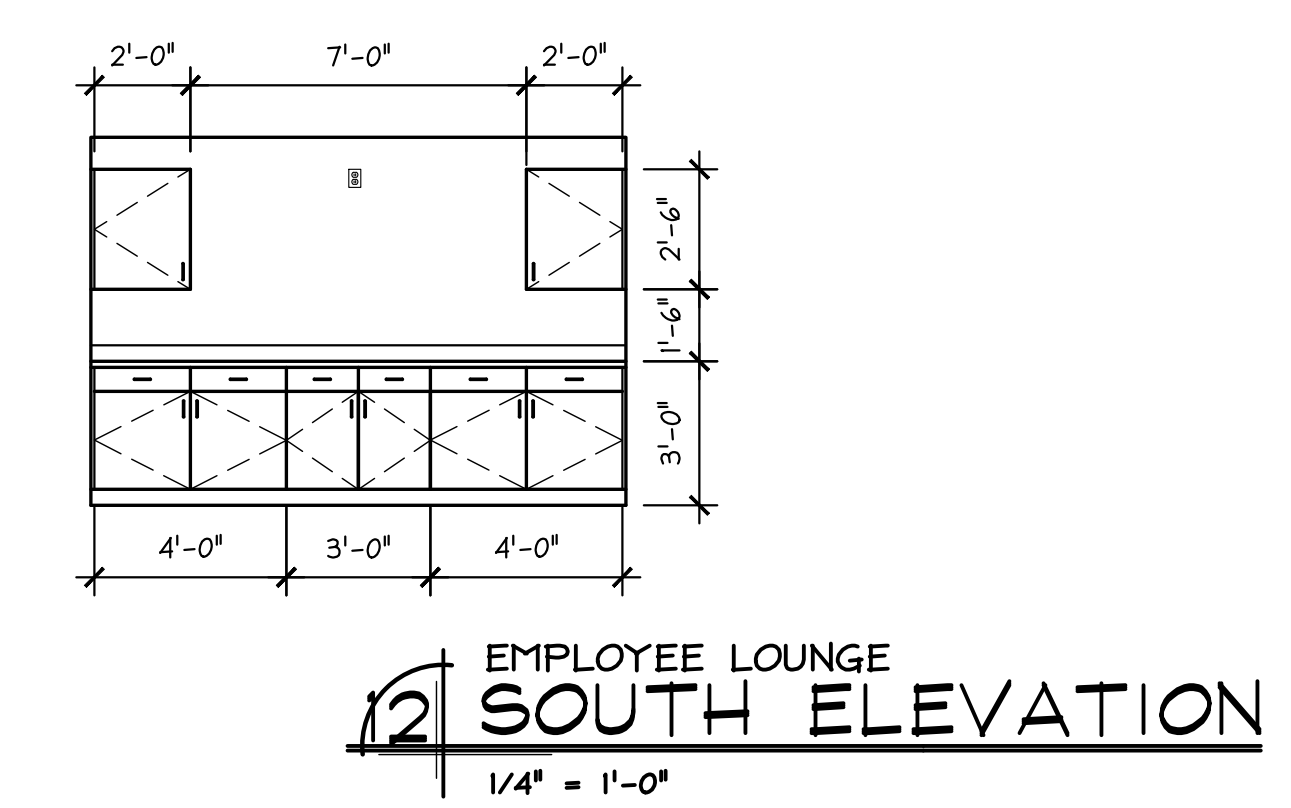
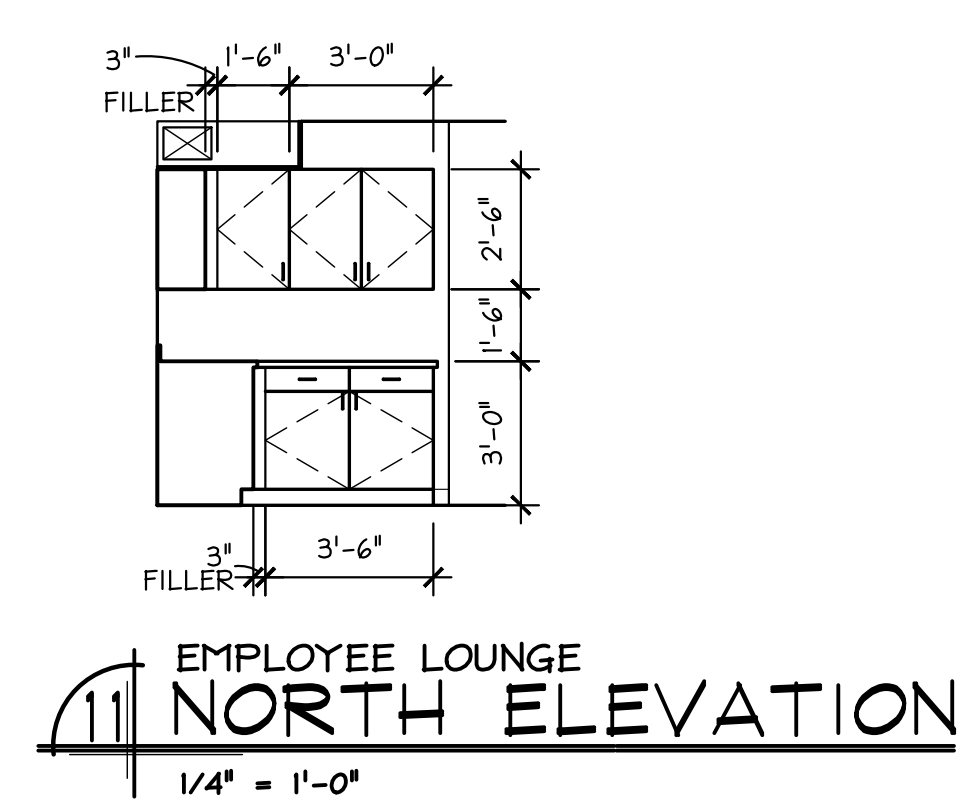
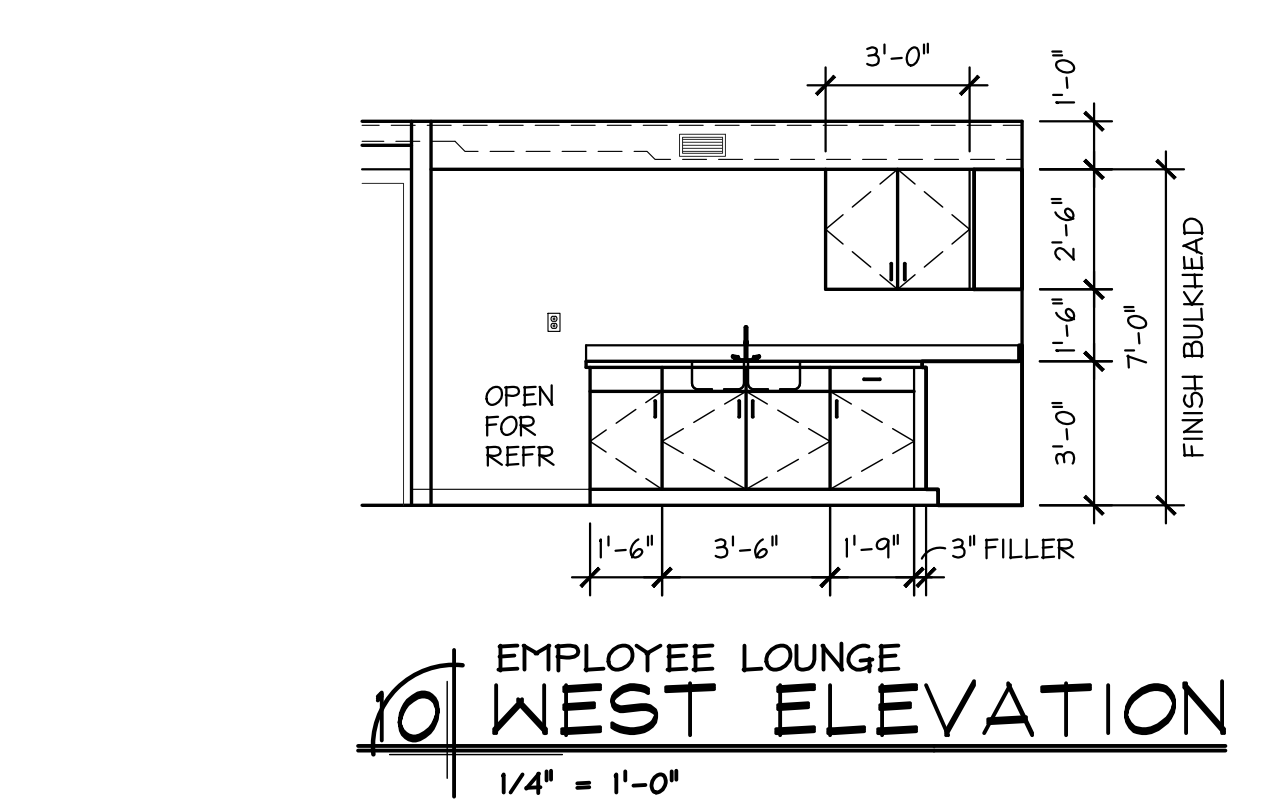
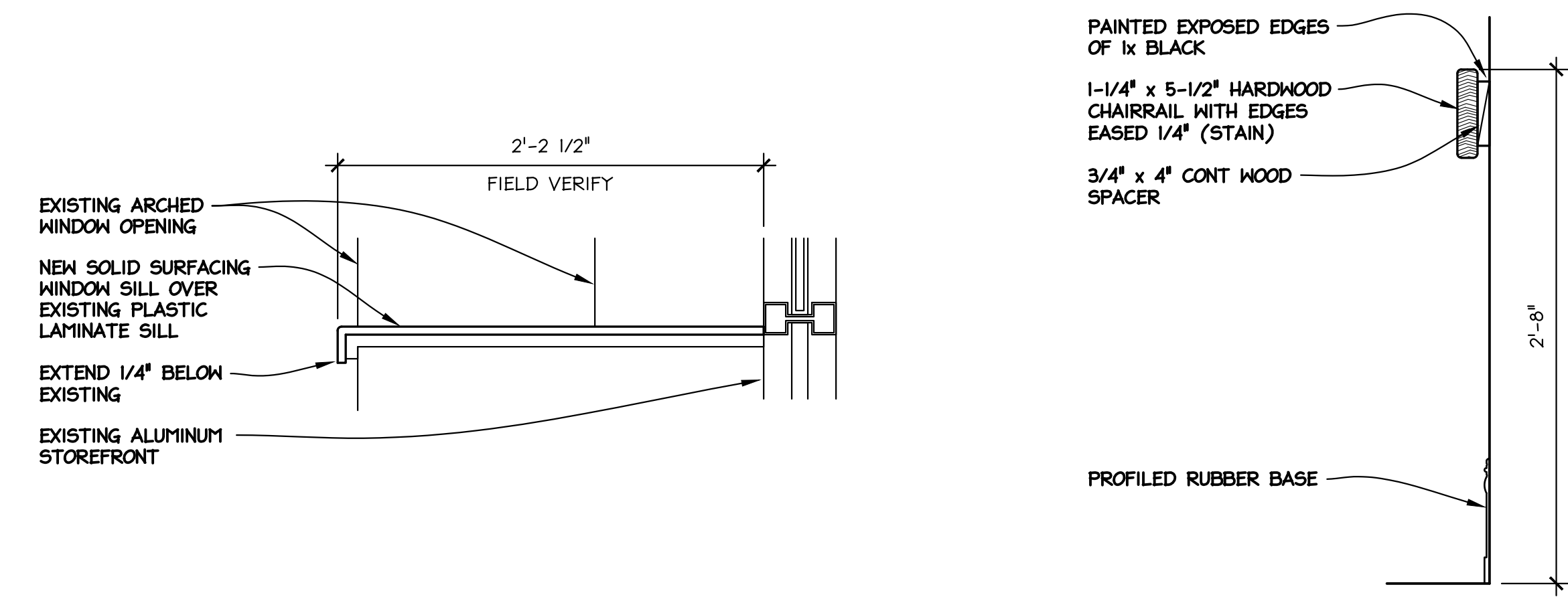
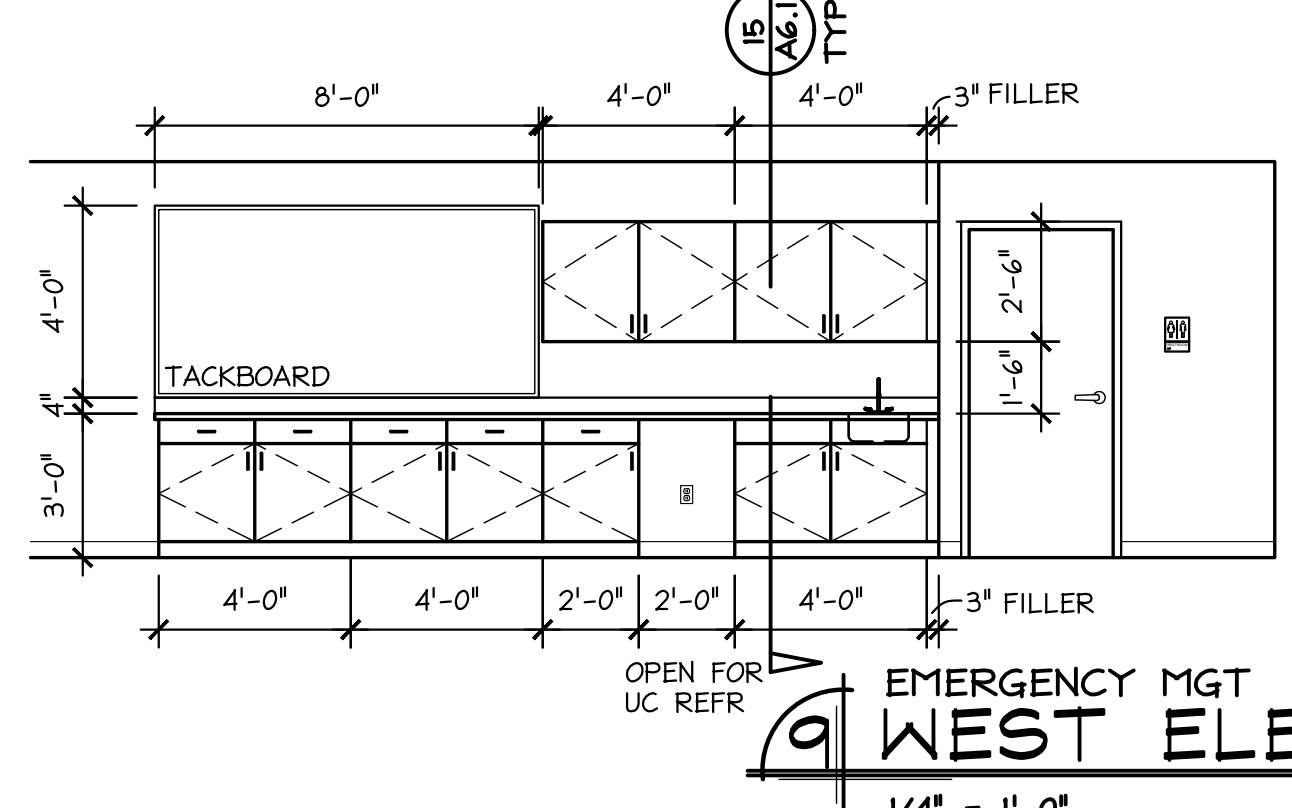
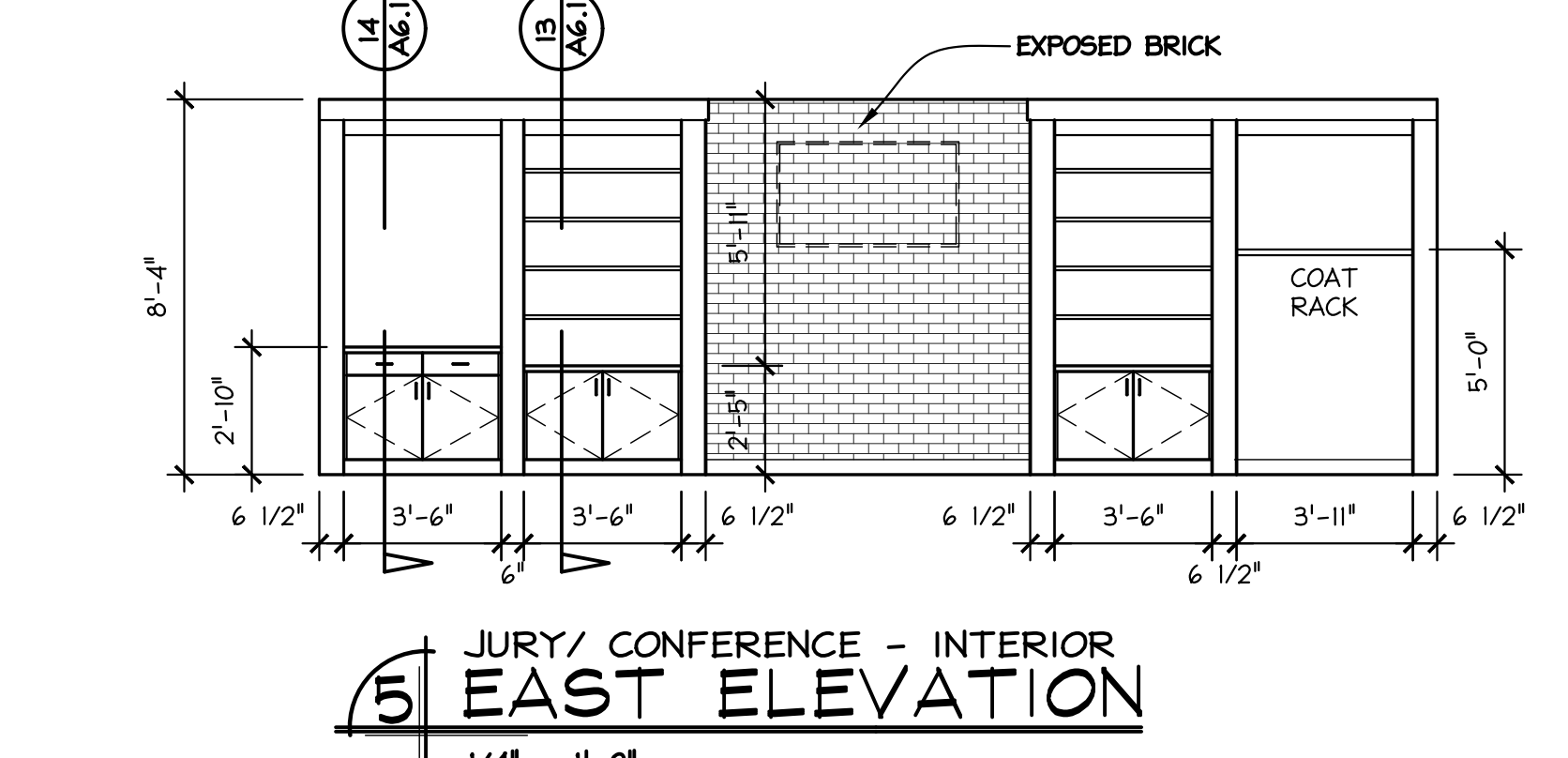
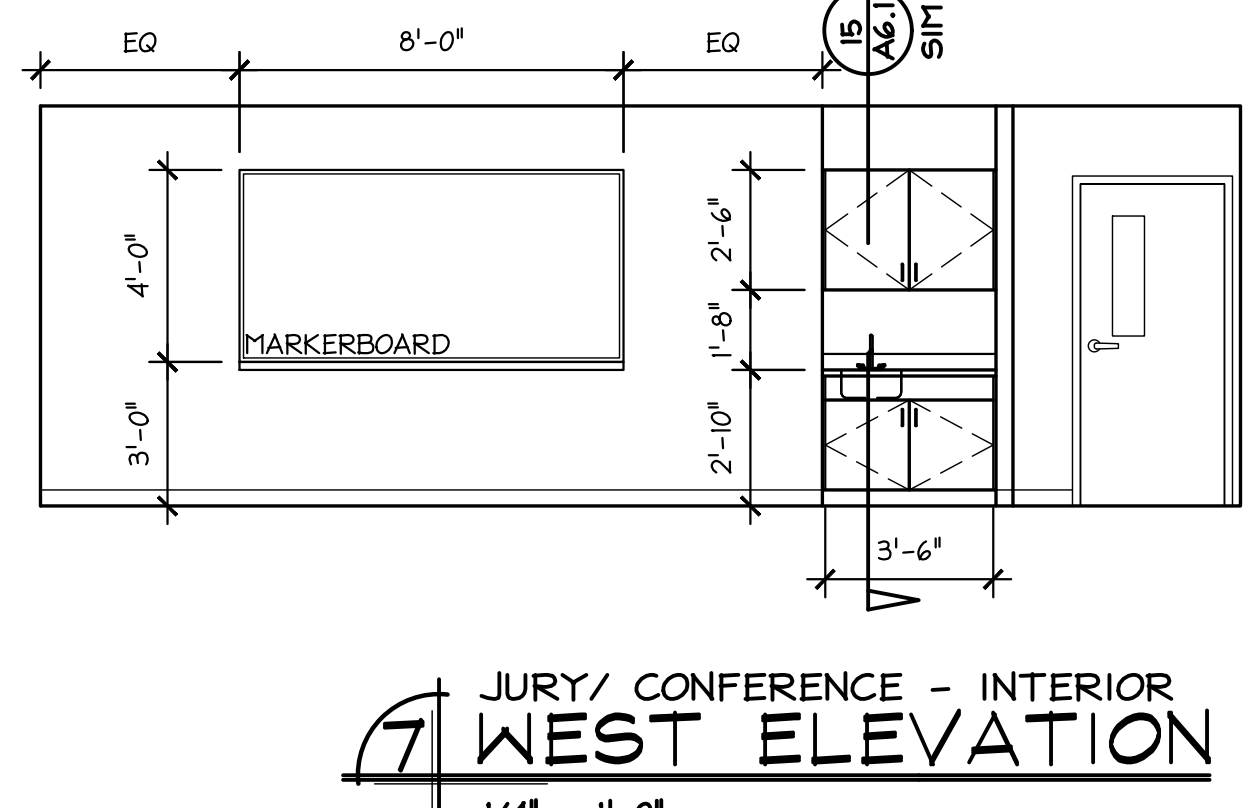
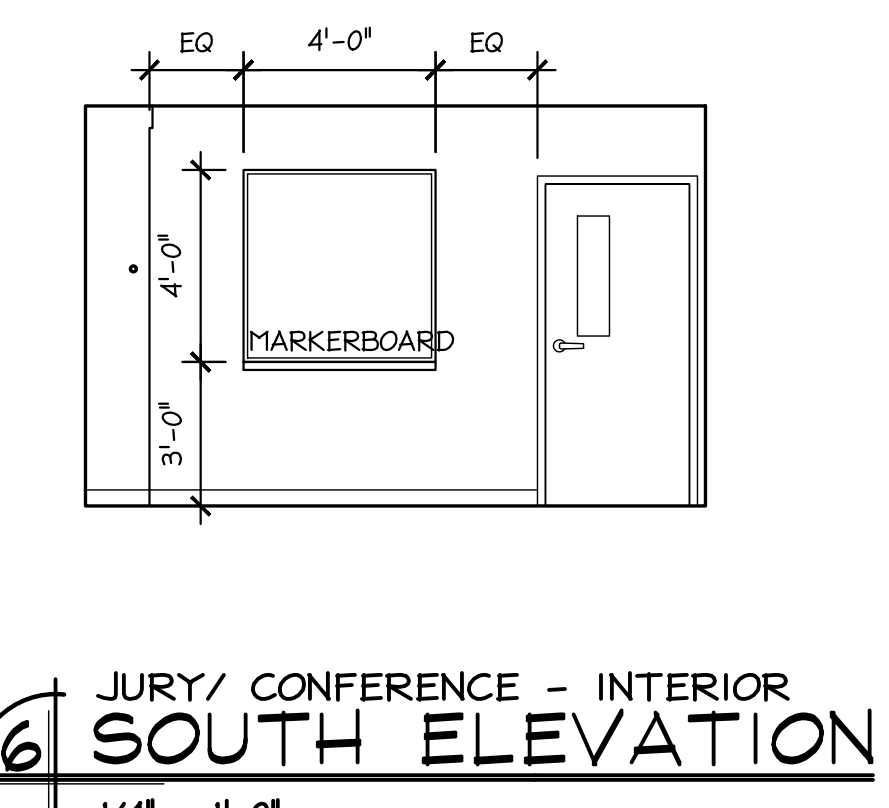
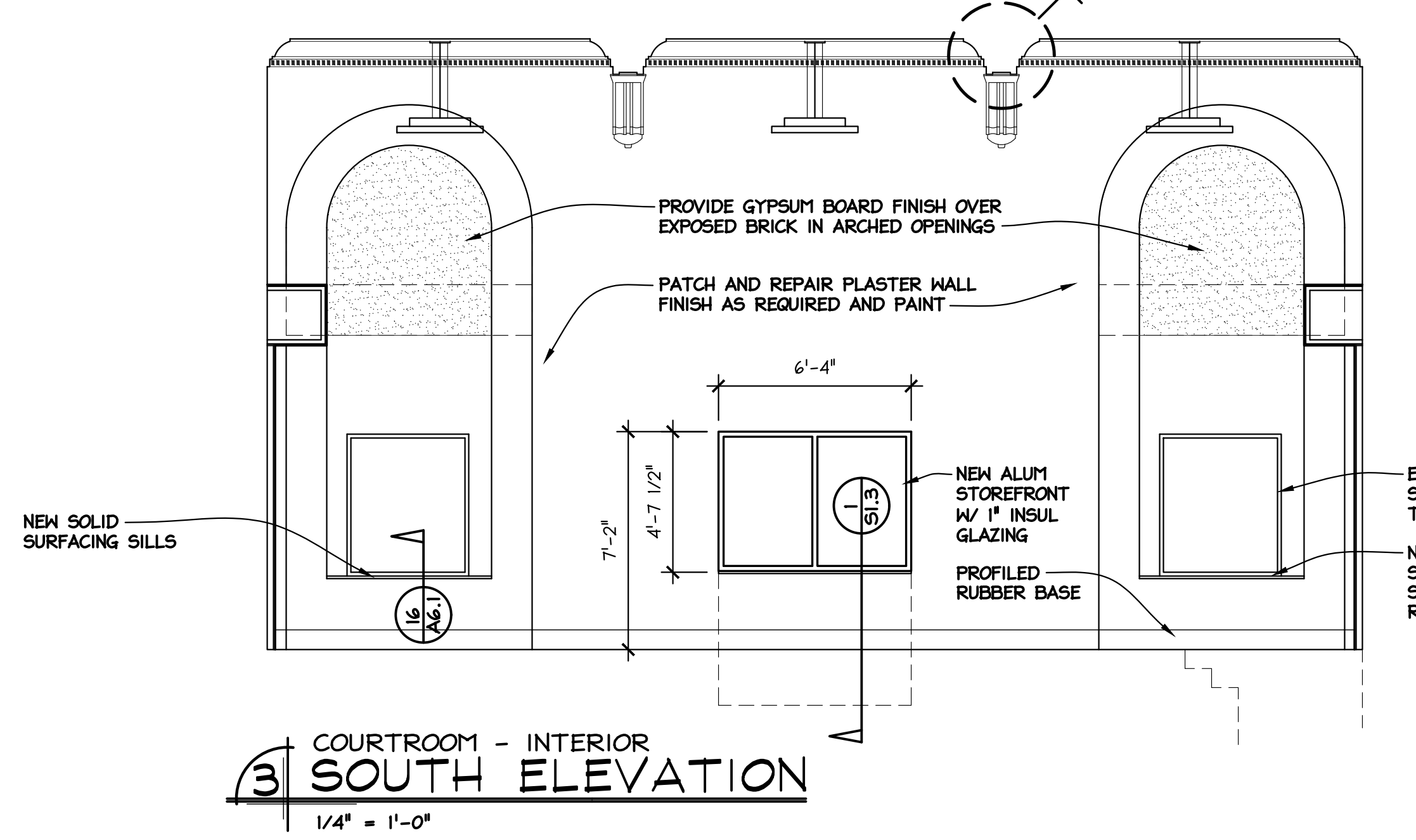
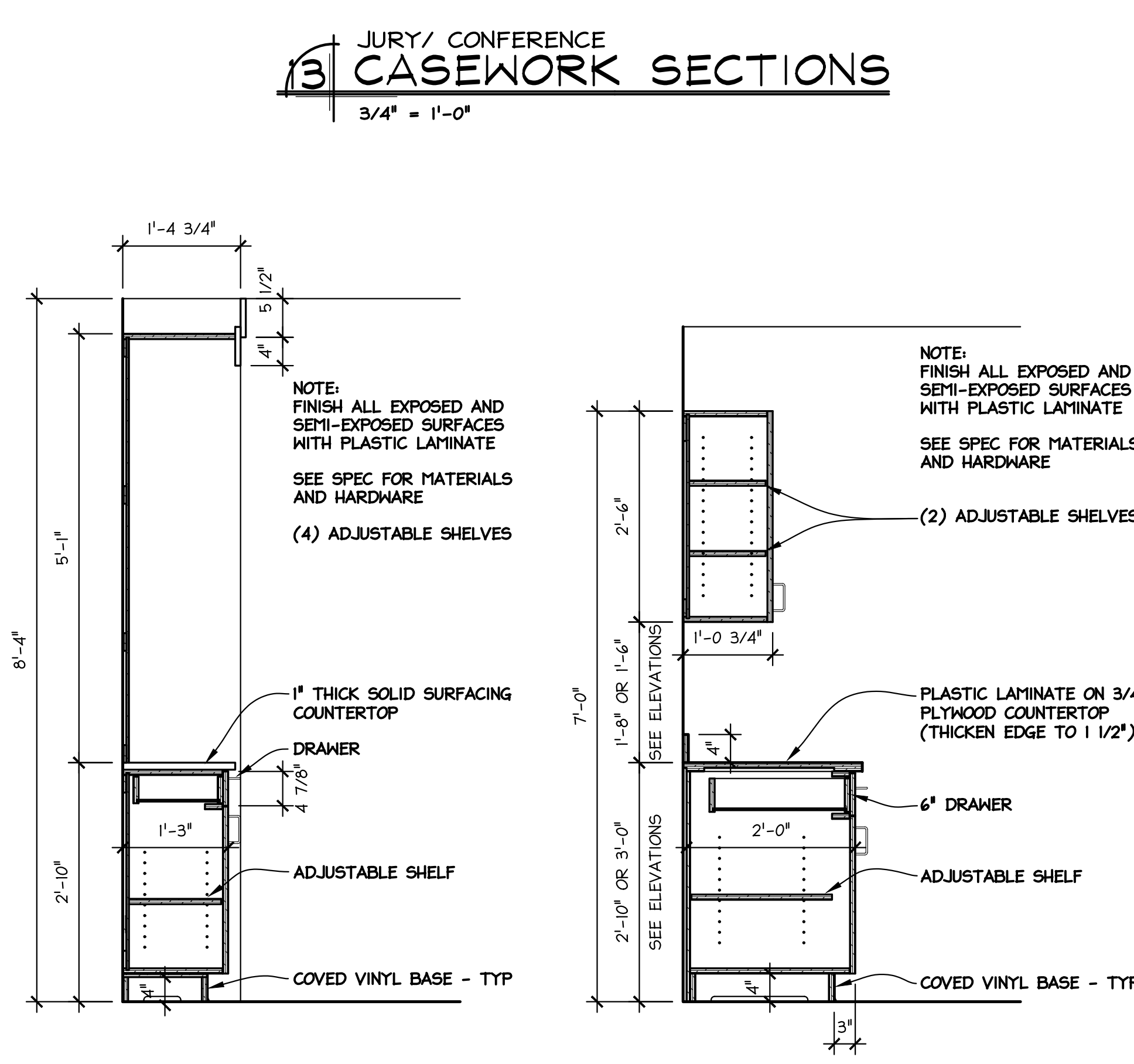
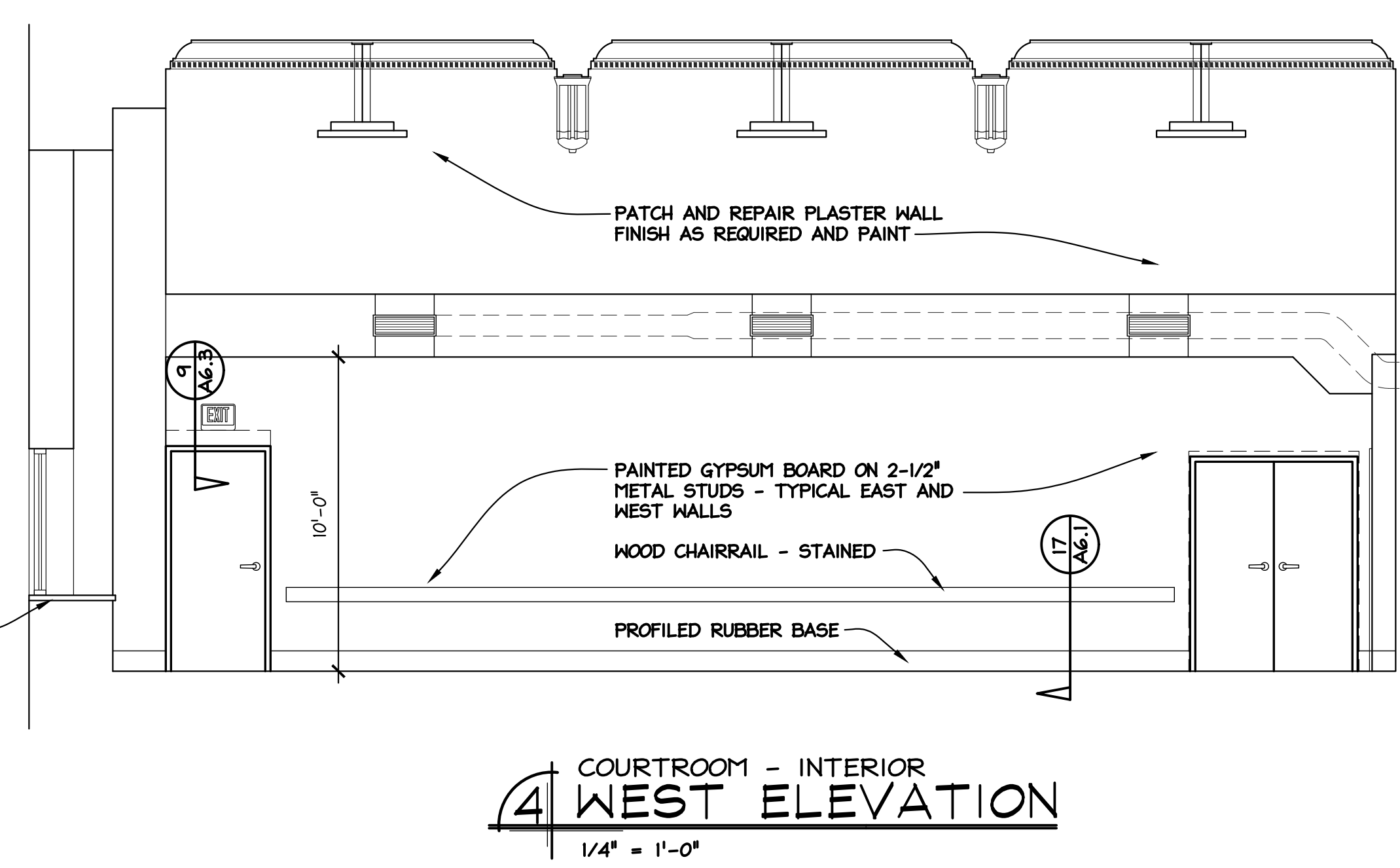
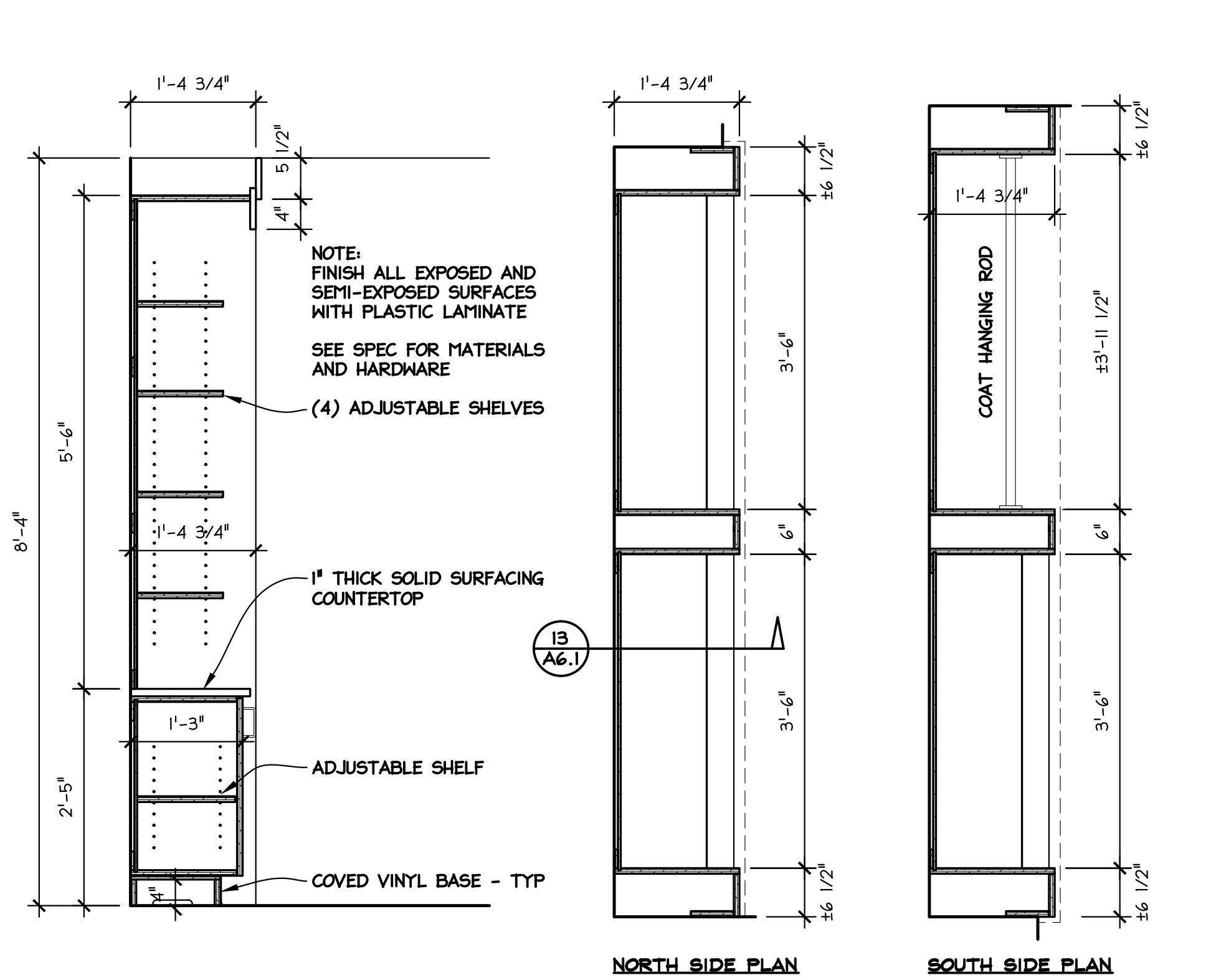
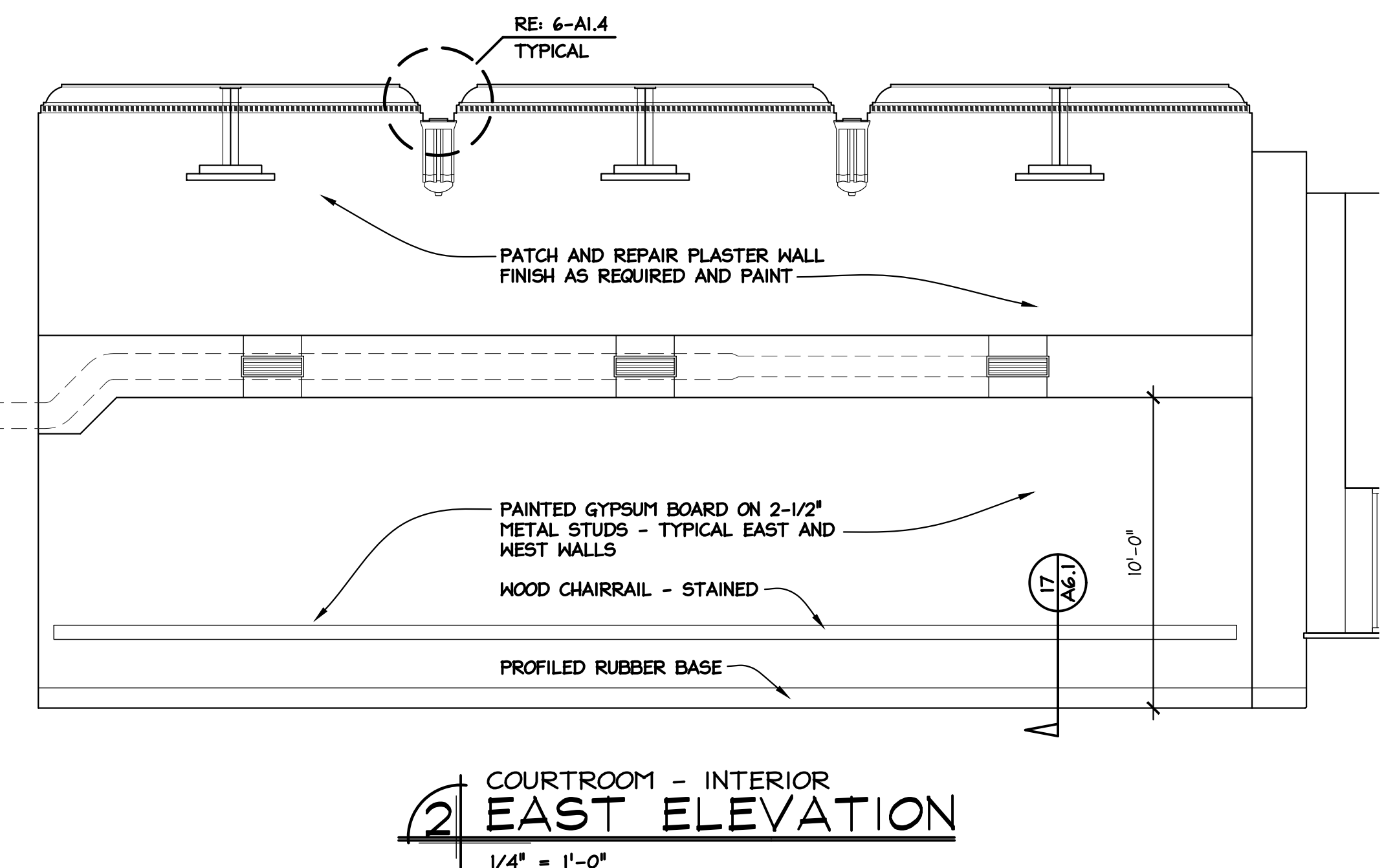
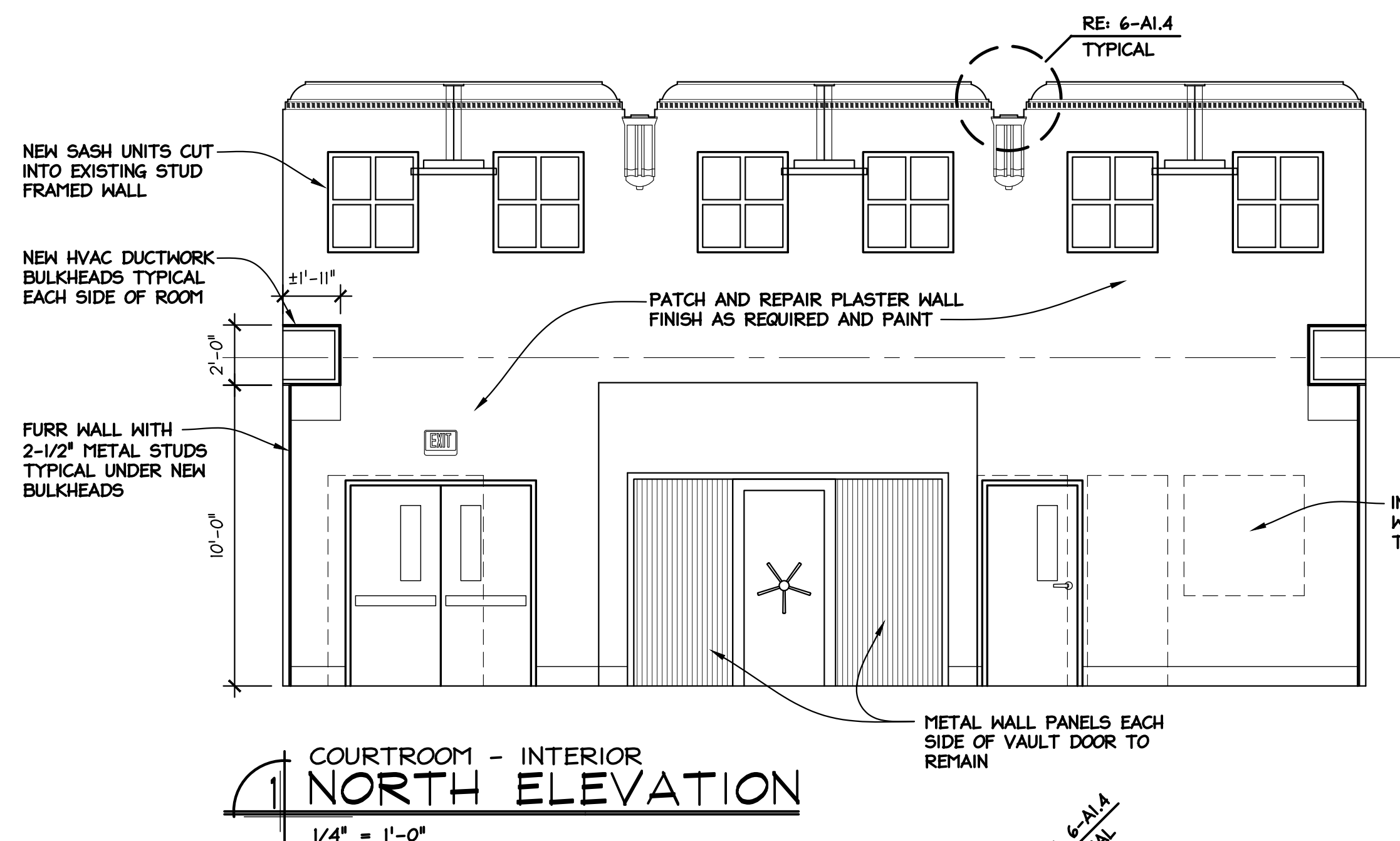
Seal

REVIEWED BY	TJG	SCALE	AS NOTED	DATE	06/26/23
DRAWN BY	LBD	PROJECT NO.	220240	CAD FILE	
DATE	04/27/23	06/26/23			
REVISION/REVISION	OWNERS APPROVAL	BID DOCUMENTS			
REV#	1	2			

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
171 N STATE ST
CARO, MI

NJB ARCHITECTS INC.
105+ Main Street
Flushing, Michigan 48433
810-659-7118 voice
810-659-7224 fax
www.njb-architects.com

A3.2



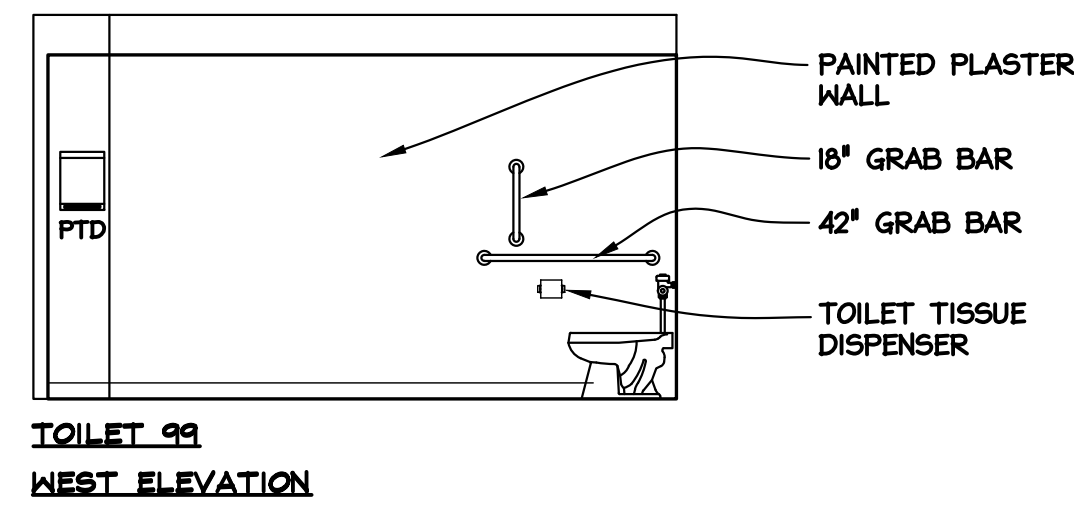
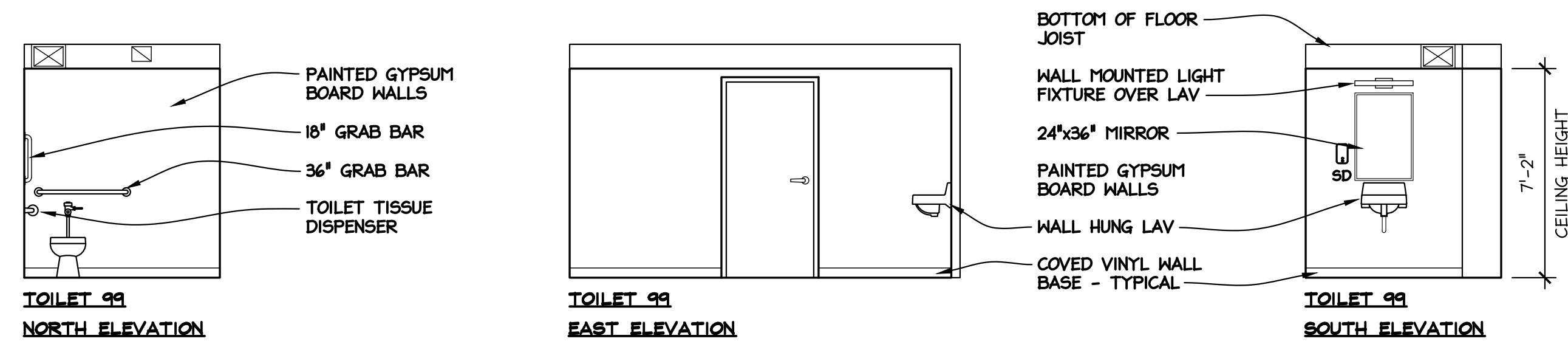
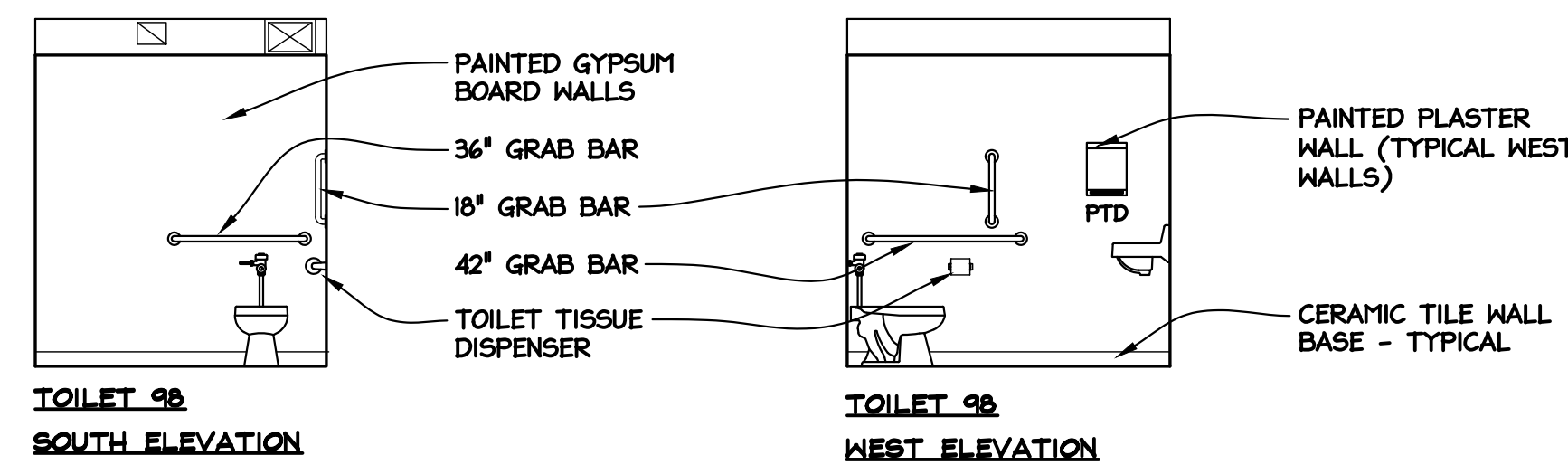
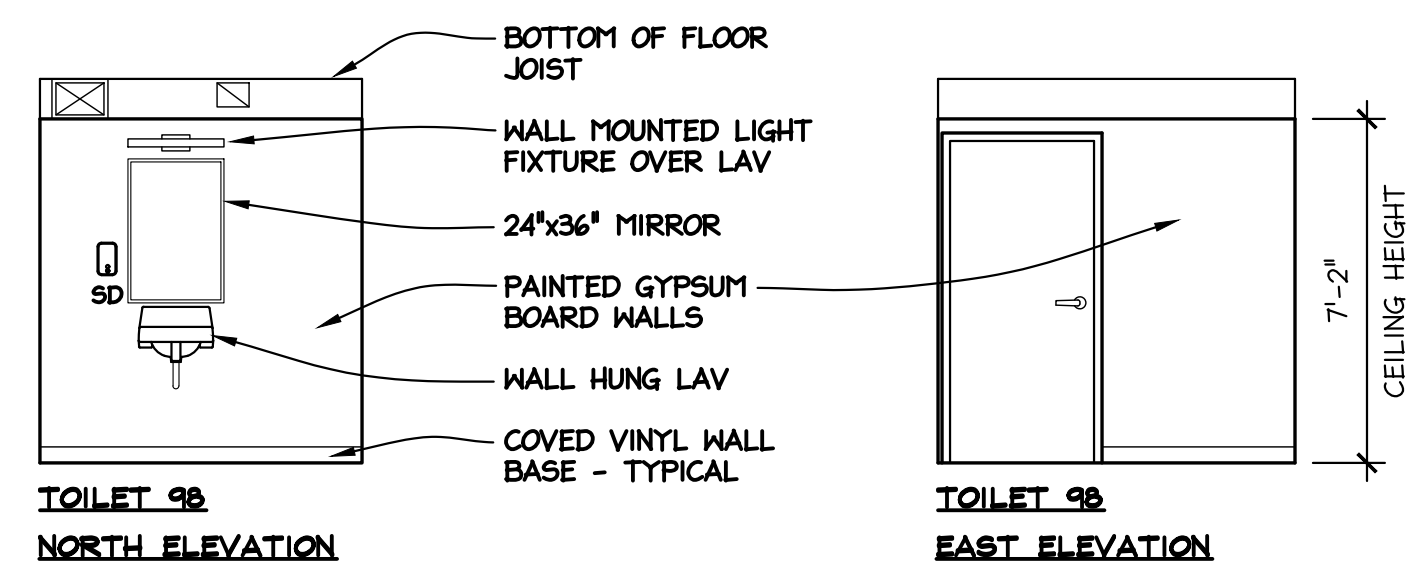
REV#	REVISION/DESCRIPTION	DATE	DRAWN BY	DATE	SCALE	AS NOTED	DATE
1	OWNER'S APPROVAL	04/27/23	LD				05/26/23
2	BID DOCUMENTS	05/26/23			2024/6		

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI

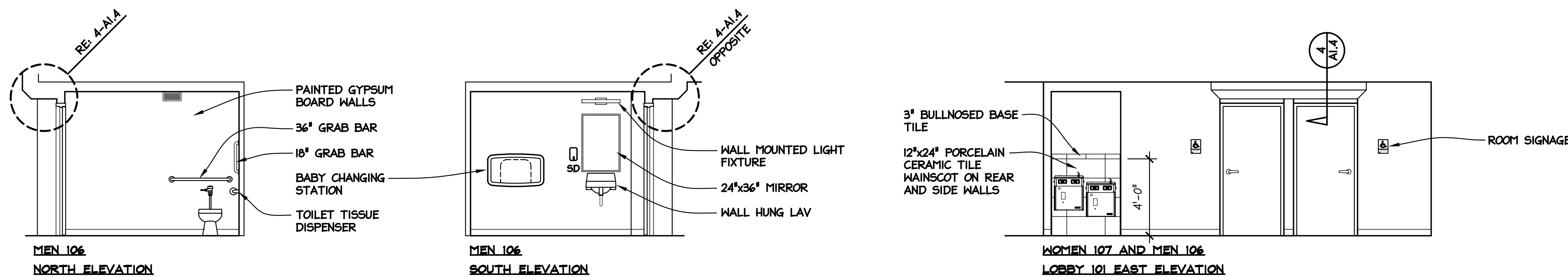
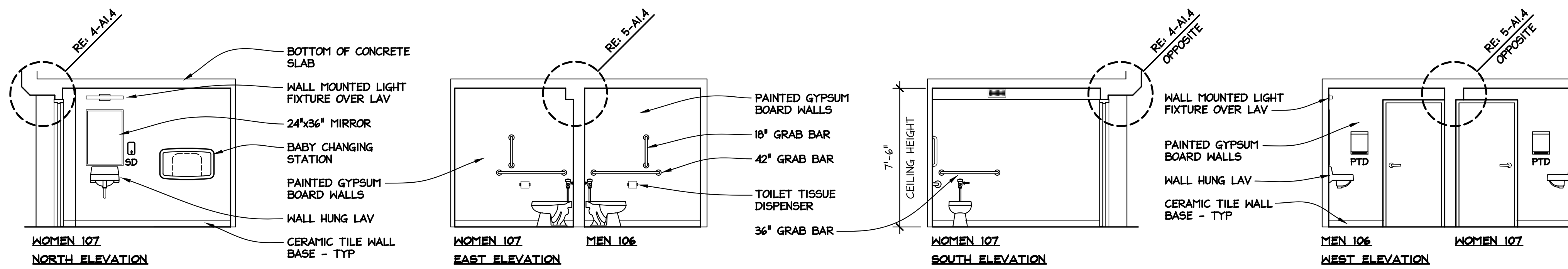
NJIB ARCHITECTS INC.
 105+ Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax

www.njib-architects.com

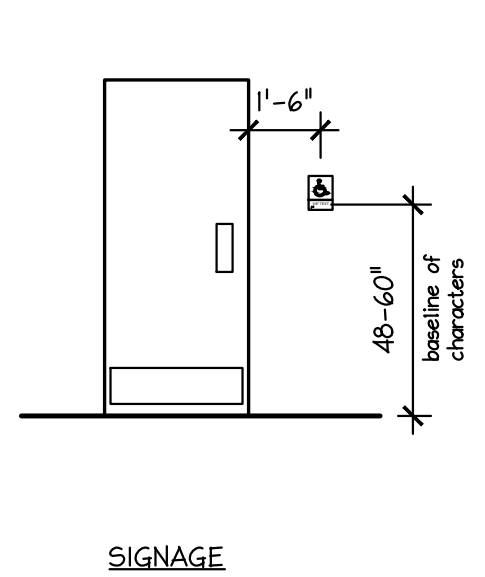
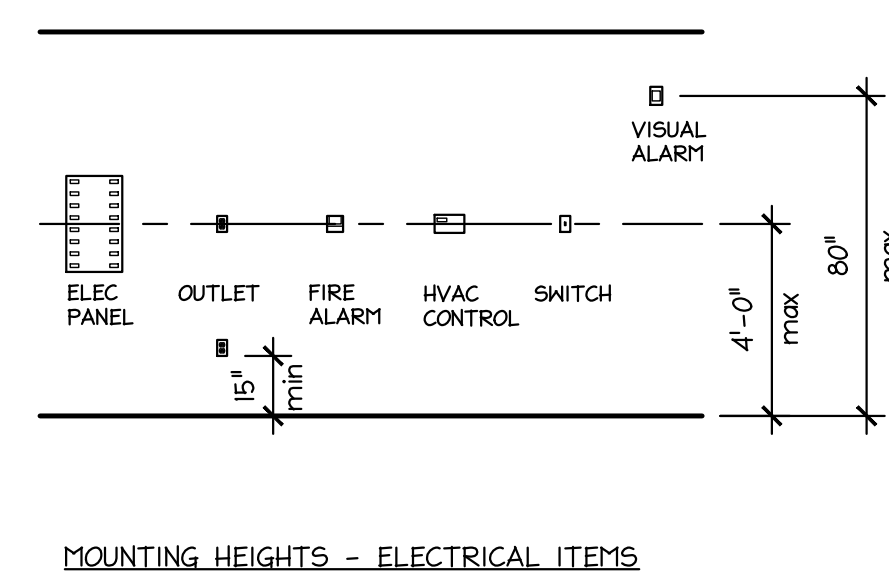
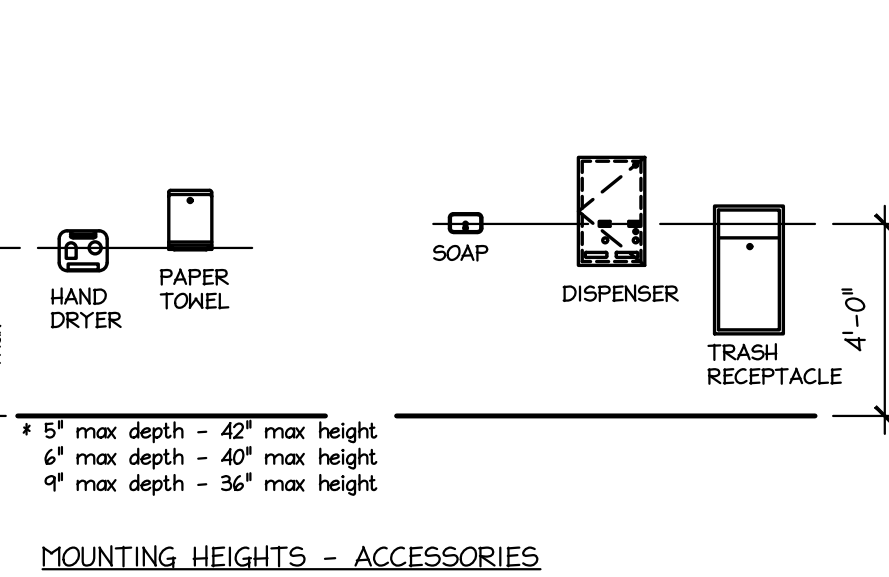
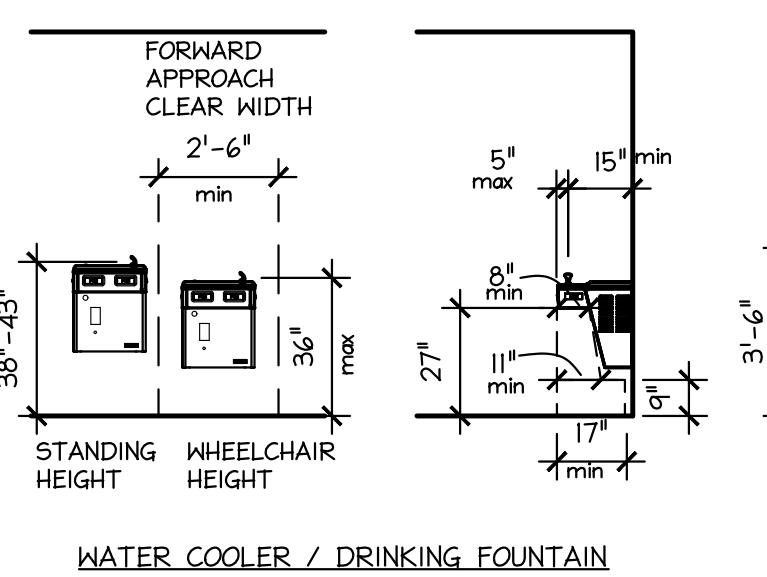
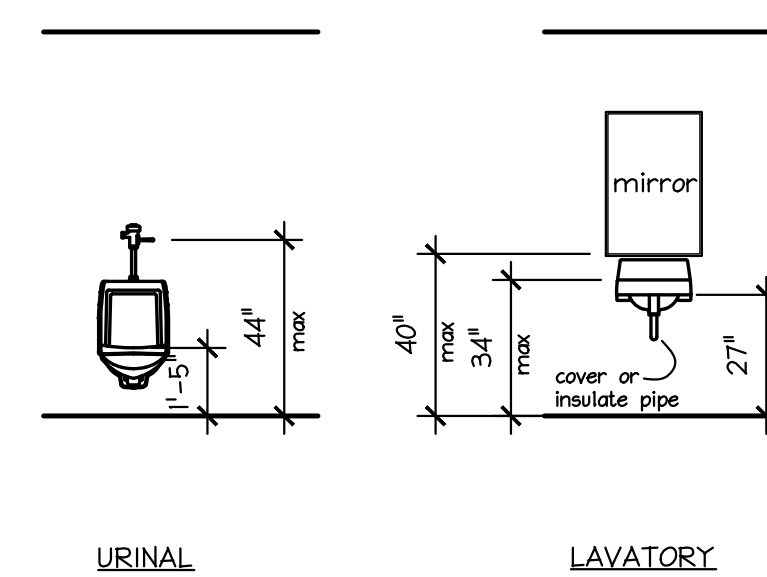
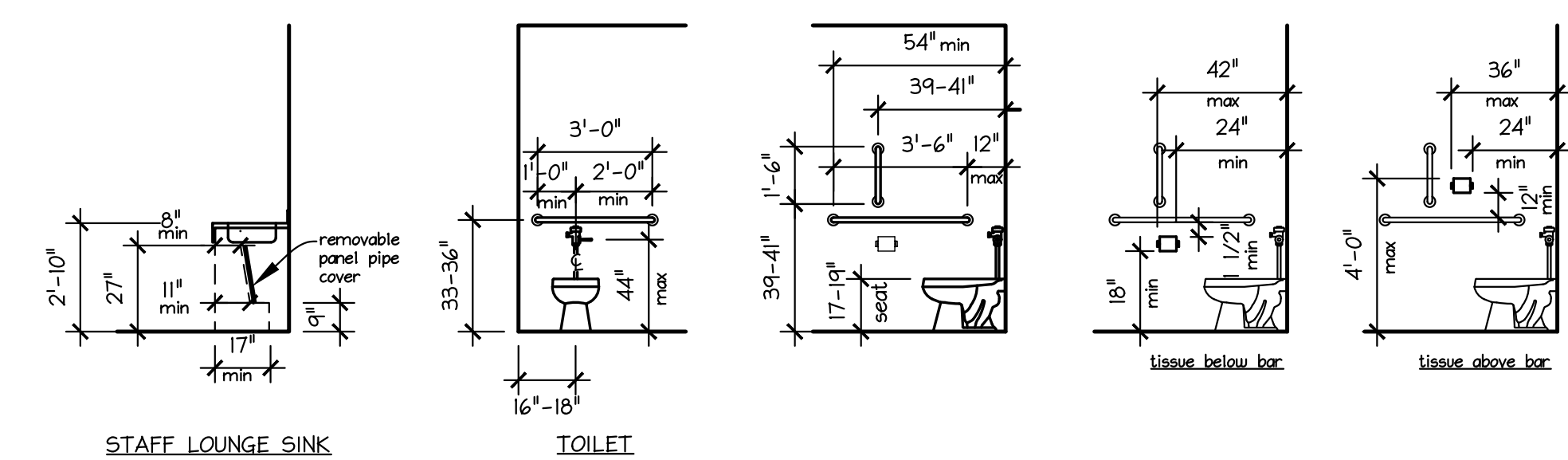
INTERIOR ELEVATIONS AND CASEWORK SECTIONS



LOWER LEVEL TOILET ROOM ELEVATIONS
1/4" = 1'-0"



FIRST FLOOR TOILET ROOM ELEVATIONS
1/4" = 1'-0"

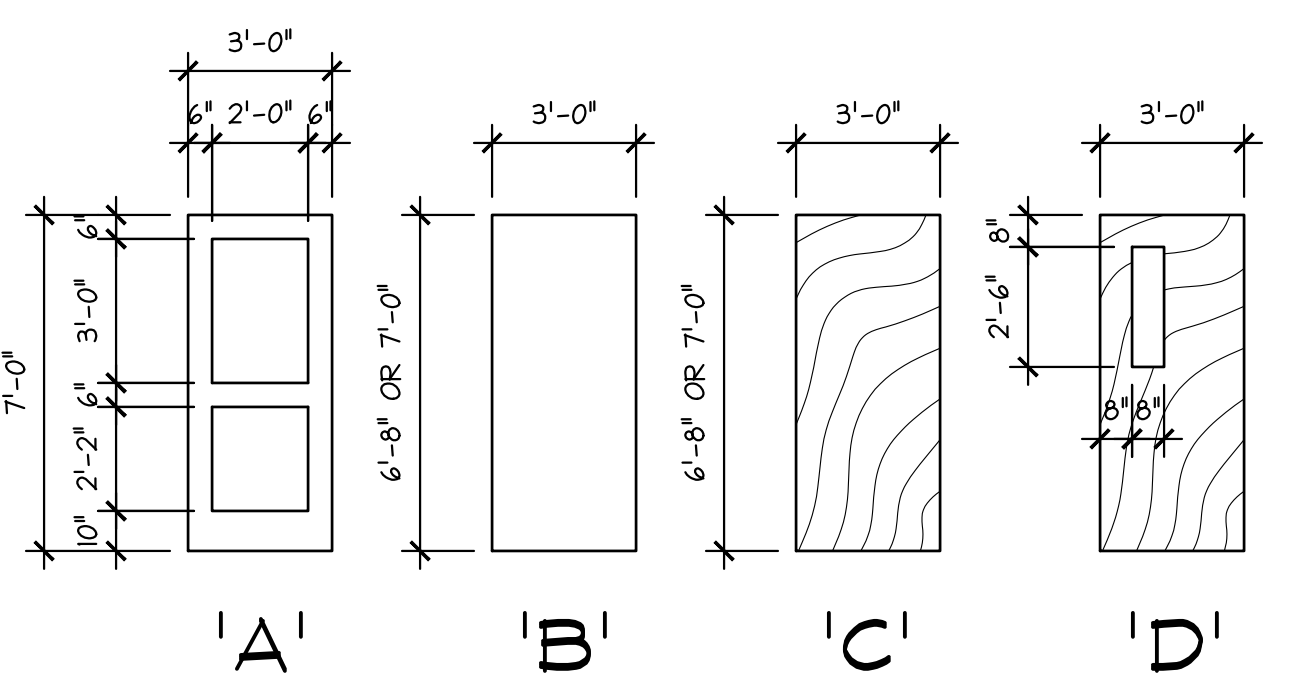


BARRIER FREE MOUNTING HEIGHT ELEVATIONS
1/4" = 1'-0"

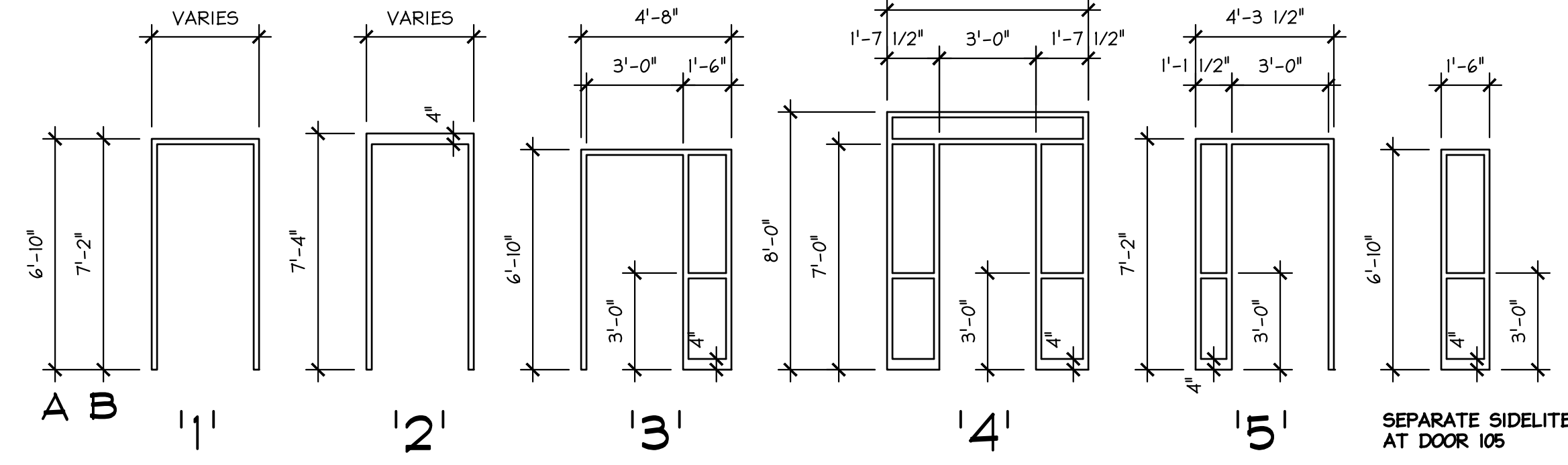
REVIEWED BY	TJG	SCALE	AS NOTED	DATE	02/26/23
DRAWN BY	LBD	PROJECT NO.	220240	CAD FILE	
DATE	04/17/23				
REVISIONS/ISSUES	OWNER'S APPROVAL				
REV #	1				

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
171 N STATE ST
CARO, MI
TOILET ROOM INTERIOR ELEVATIONS

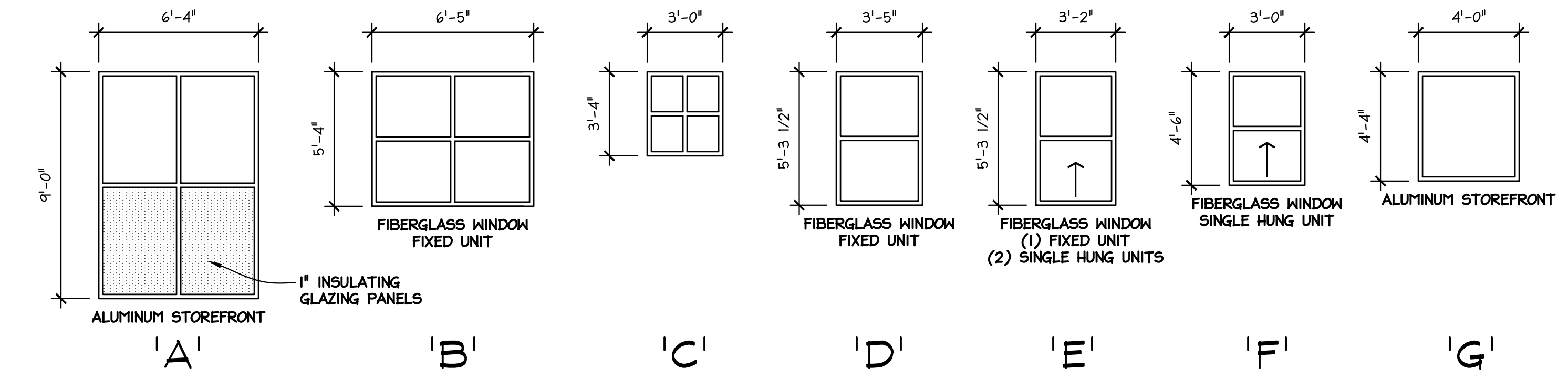
NJB ARCHITECTS INC.
105+ Main Street
Flushing, Michigan 48433
810-659-7118 voice
810-659-7224 fax
www.njb-architects.com



1 DOOR ELEVATIONS
1/4" = 1'-0"



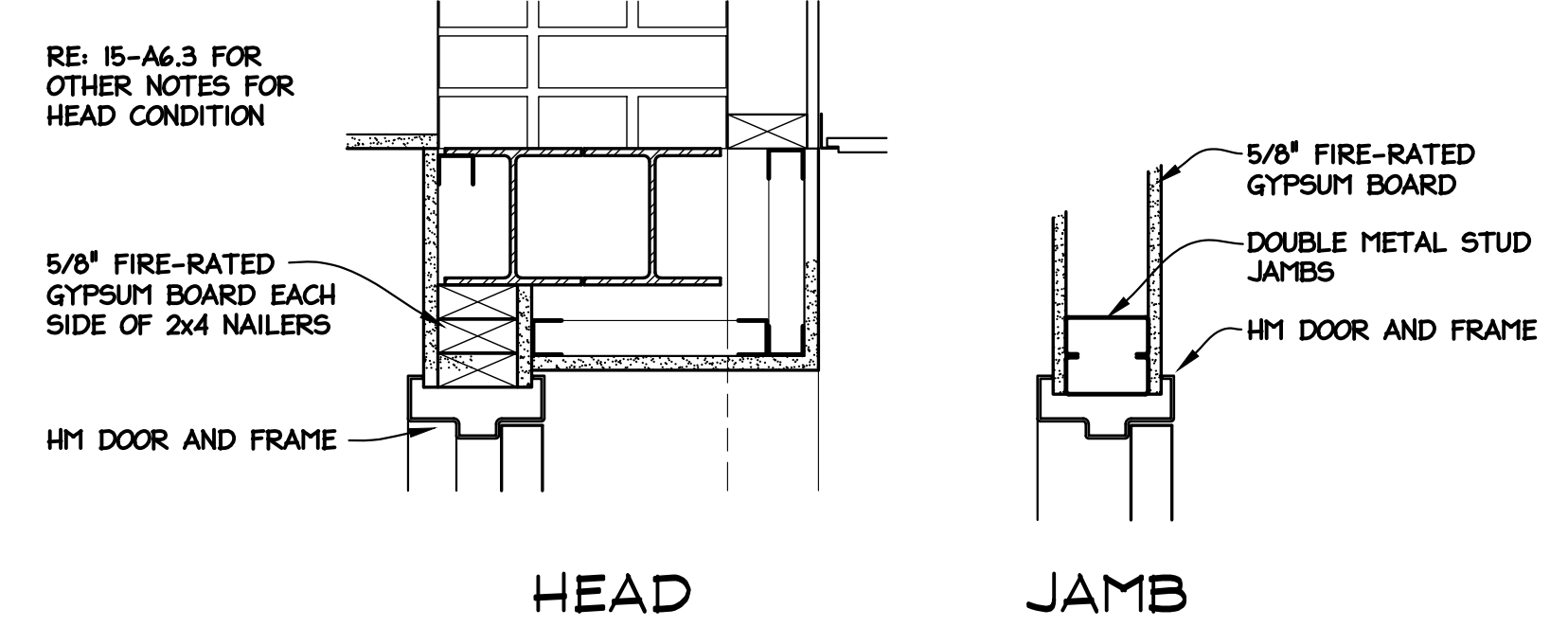
2 FRAME ELEVATIONS
1/4" = 1'-0"



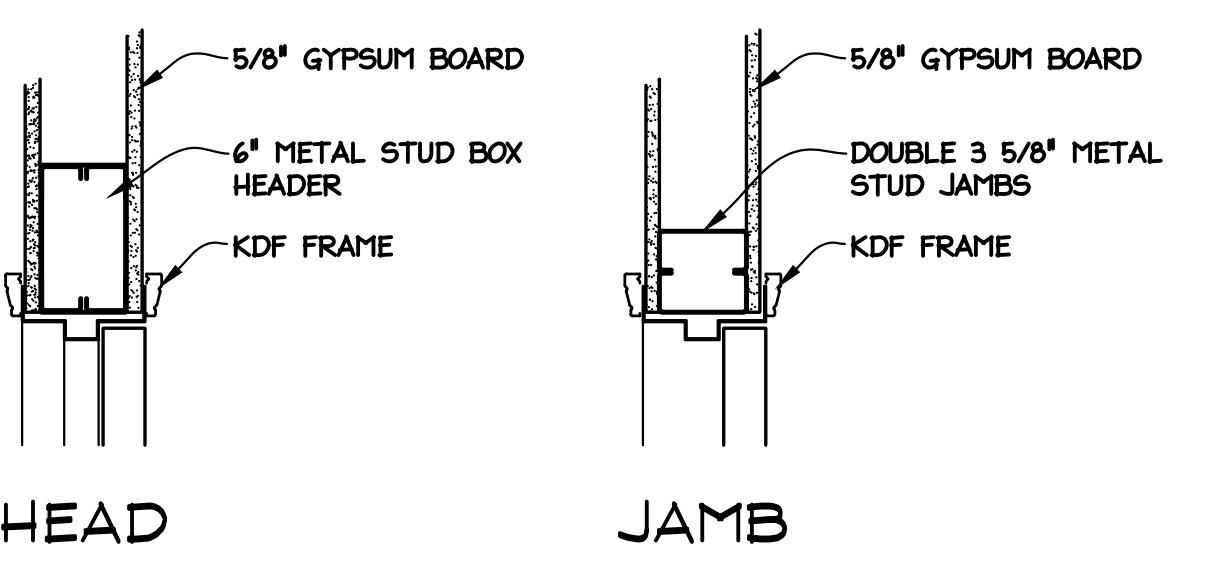
3 WINDOW ELEVATIONS
1/4" = 1'-0"

1. FOR WINDOW UNITS INSTALLED IN EXISTING WALL OPENINGS VERIFY SIZE OF UNITS REQUIRED WITH EXISTING OPENINGS.

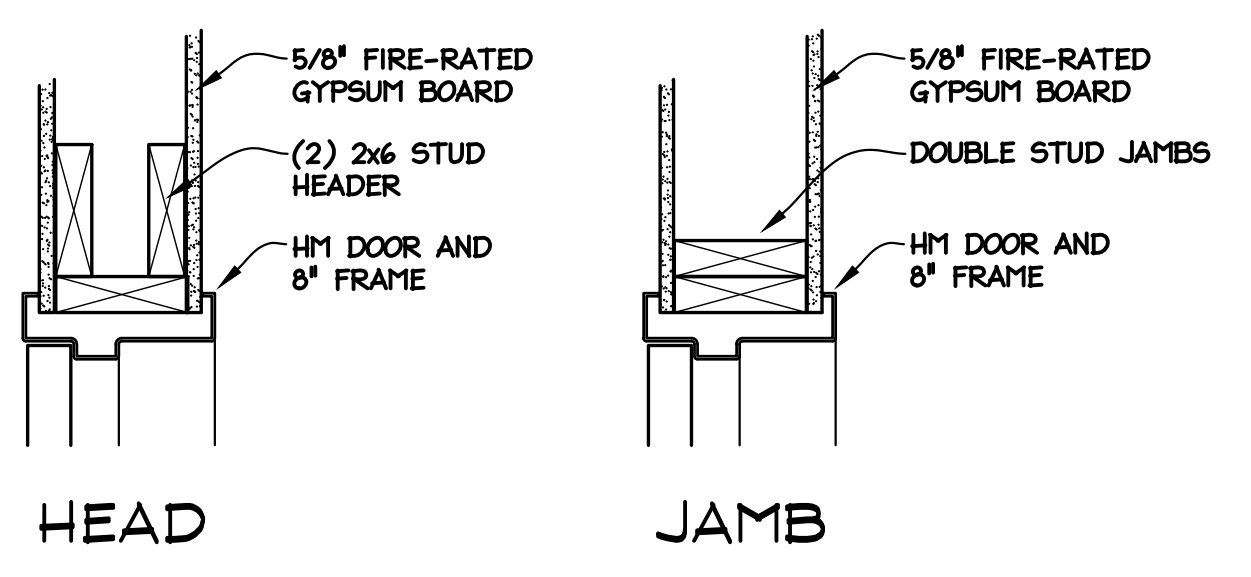
- DOOR NOTES:**
- ALL EMERGENCY EXIT HARDWARE SHALL BE NON-LOCKING FROM INTERIOR (EXIT) SIDE.
 - CONFORM TO APPLICABLE CODE AND SECTIONS OF CHAPTER 5 - NFPA 101 FOR INSTALLED DOOR AND FRAME ASSEMBLIES.
 - GLAZE INTERIOR DOOR LITES AND SIDELITES WITH 1/4" SAFETY GLASS.
 - GLAZE EXTERIOR DOOR LITES AND SIDELITES WITH INSULATING GLASS UNITS.



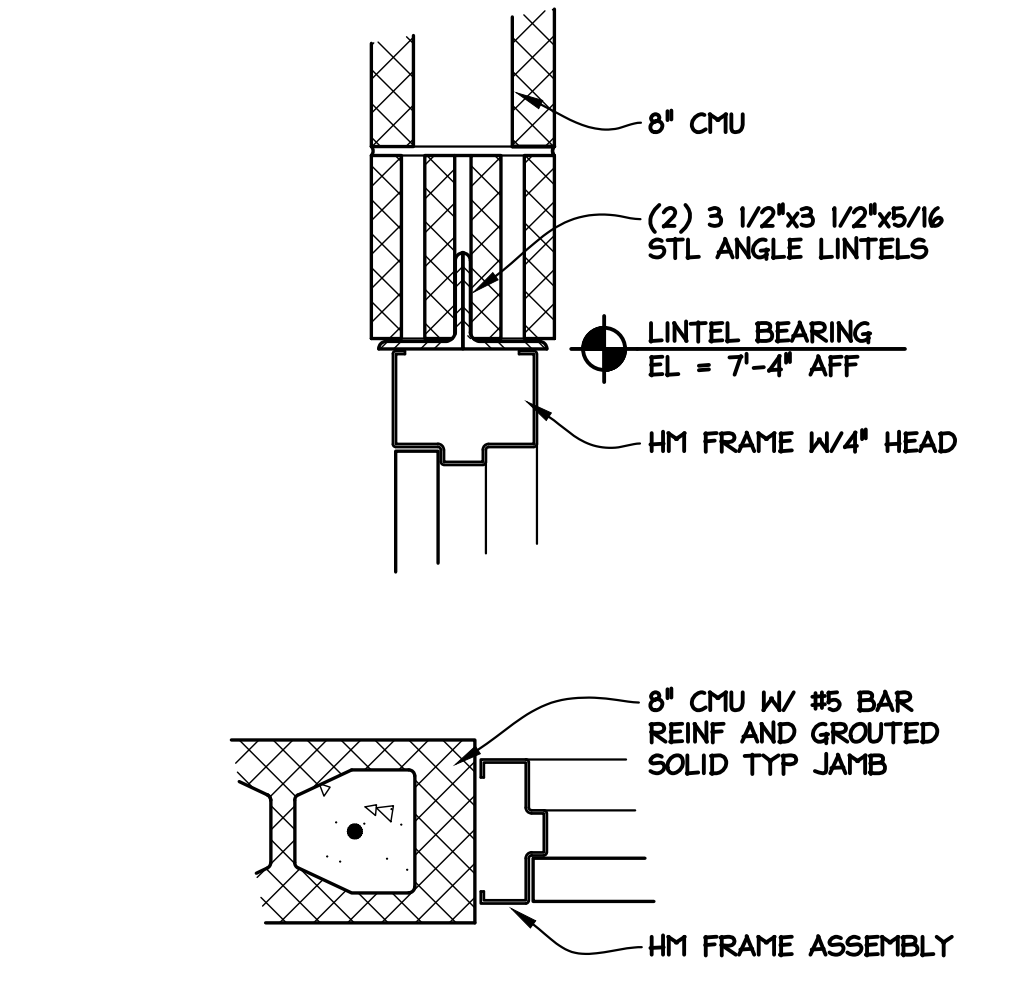
16 DOOR 104 DOOR HEAD SECTION
1-1/2" = 1'-0"



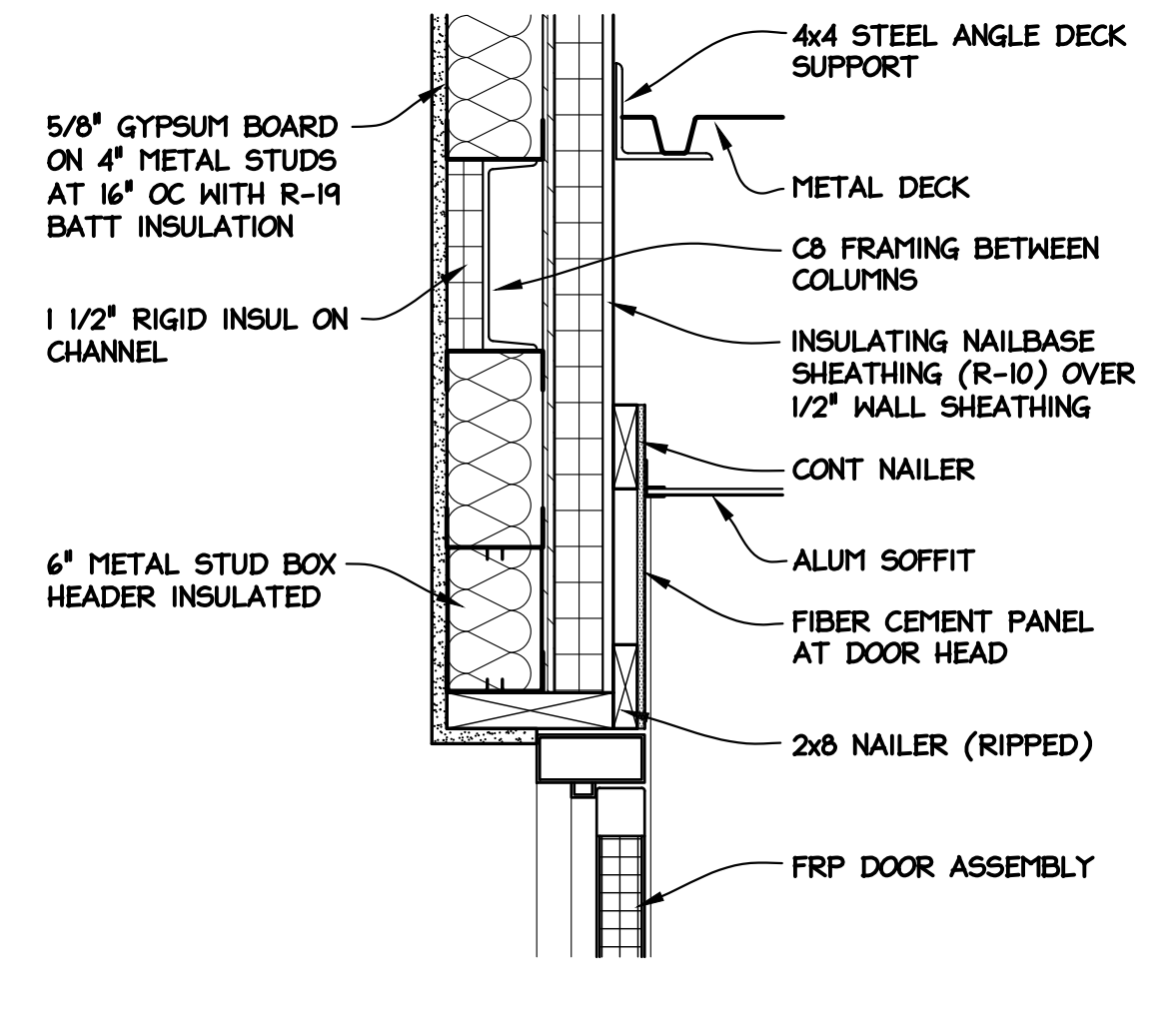
4 METAL STUD PARTITION WALL DOOR HEAD AND JAMB
1-1/2" = 1'-0"



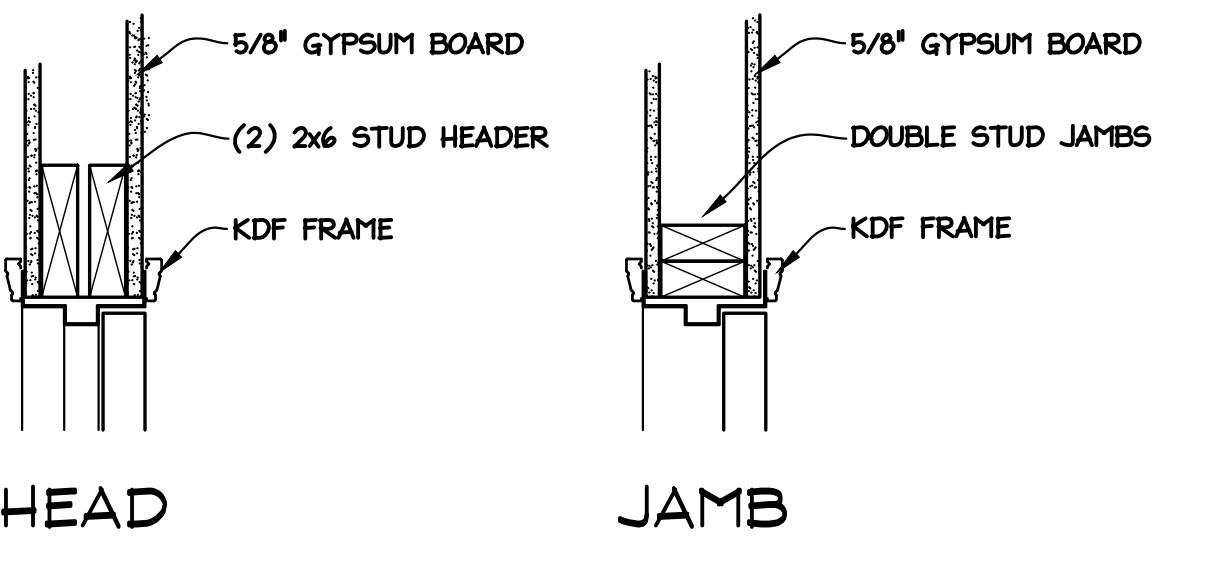
5 DOOR 05 DOOR HEAD AND JAMB
1-1/2" = 1'-0"



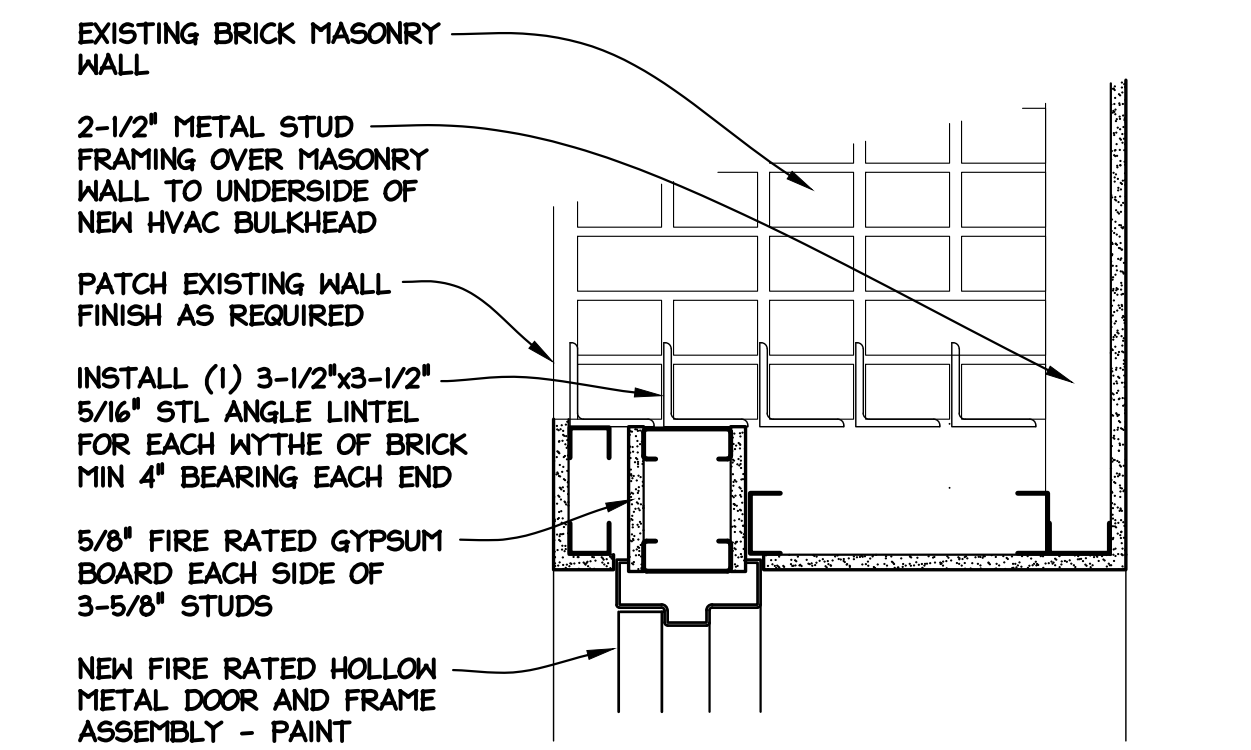
6 CMU WALL DOOR HEAD AND JAMB
1-1/2" = 1'-0"



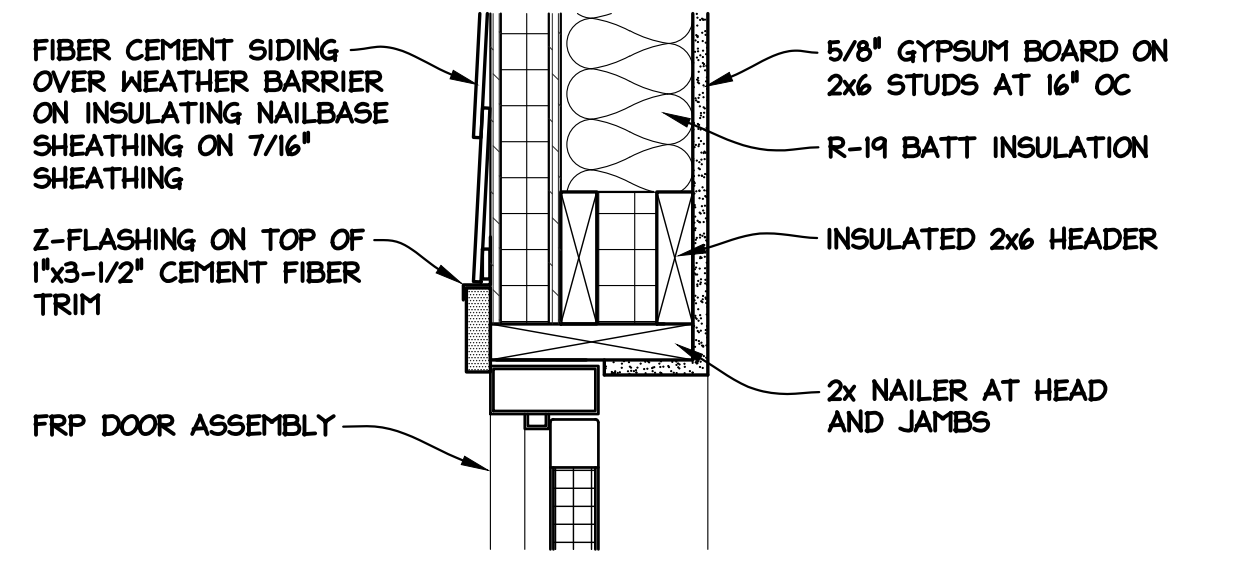
7 STAIR 1 EXTERIOR DOOR HEAD
1-1/2" = 1'-0"



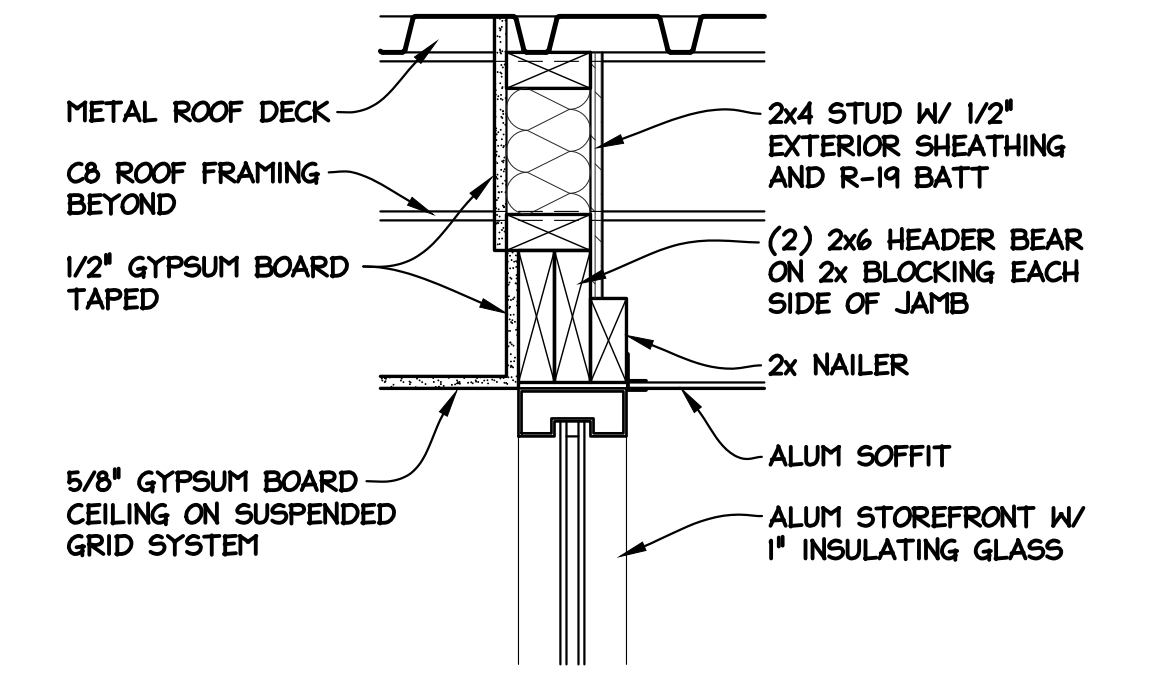
8 WOOD STUD PARTITION WALL DOOR HEAD AND JAMB
1-1/2" = 1'-0"



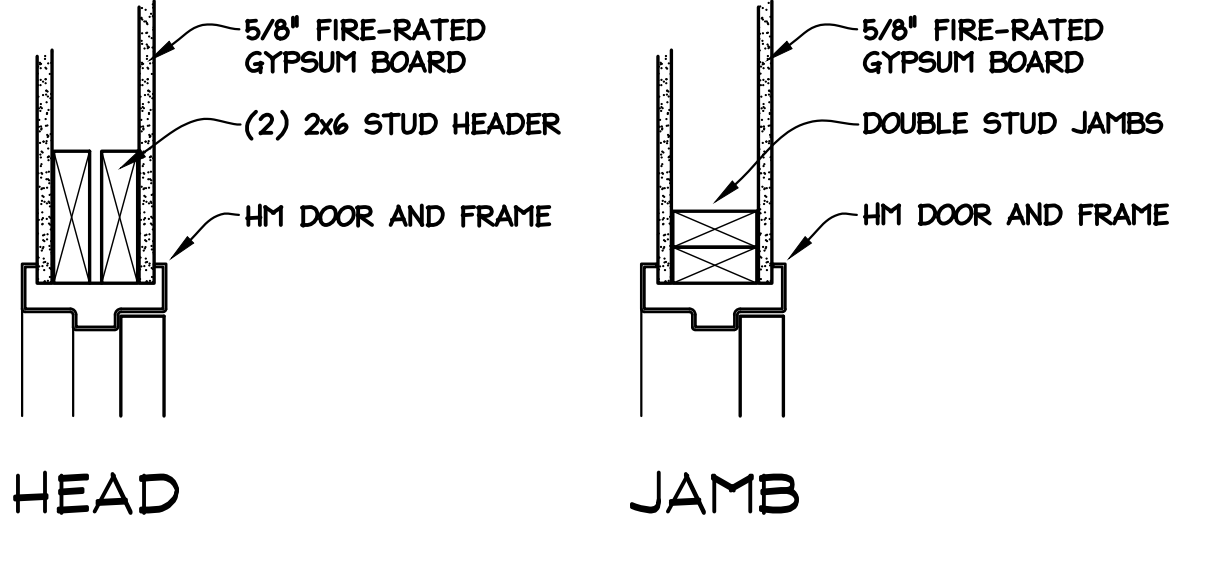
9 DOOR 119 DOOR HEAD
1-1/2" = 1'-0"



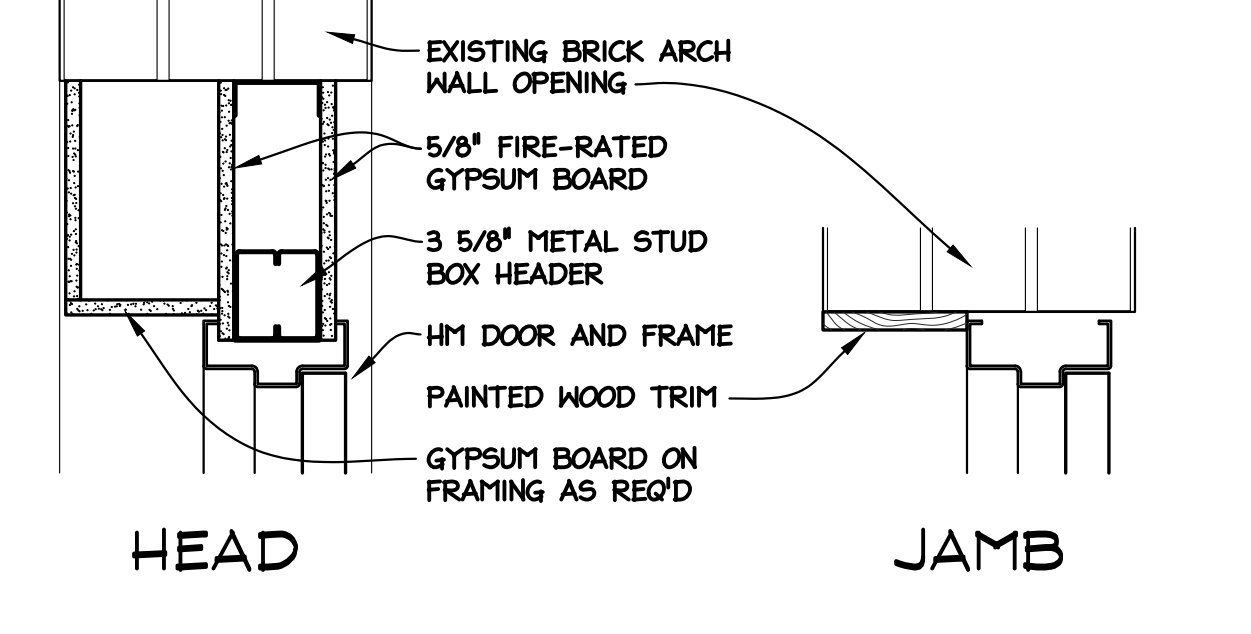
10 DOOR 208 DOOR HEAD
1-1/2" = 1'-0"



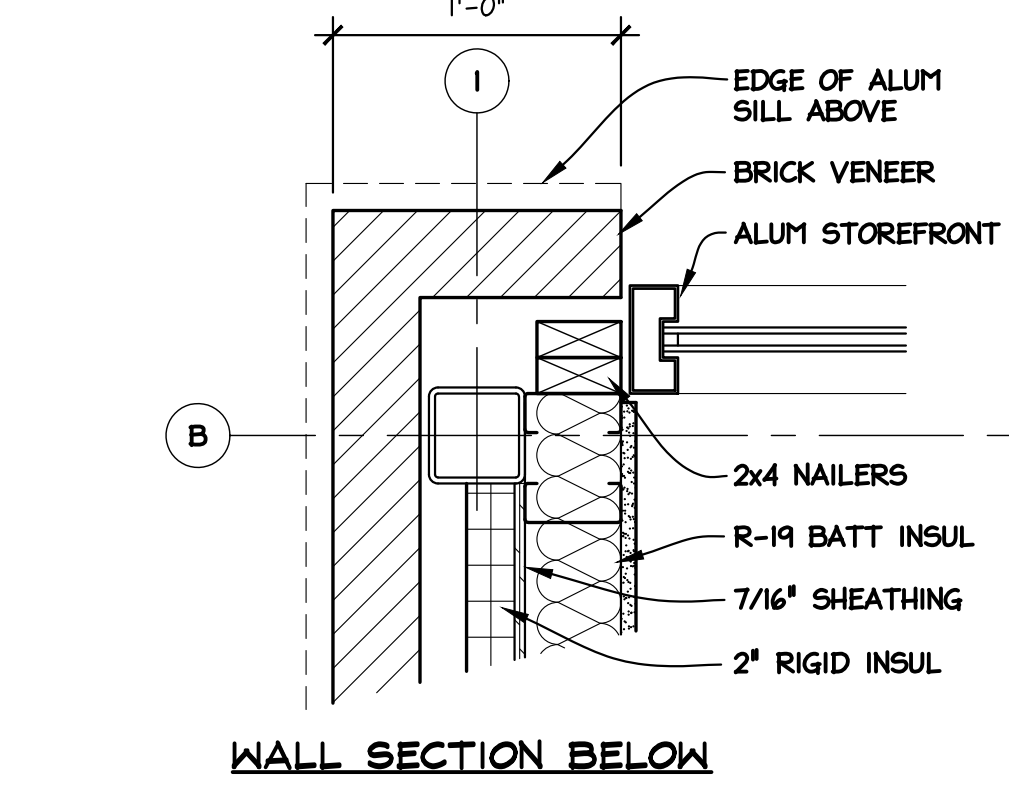
11 VESTIBULE 100 DOOR HEAD
1-1/2" = 1'-0"



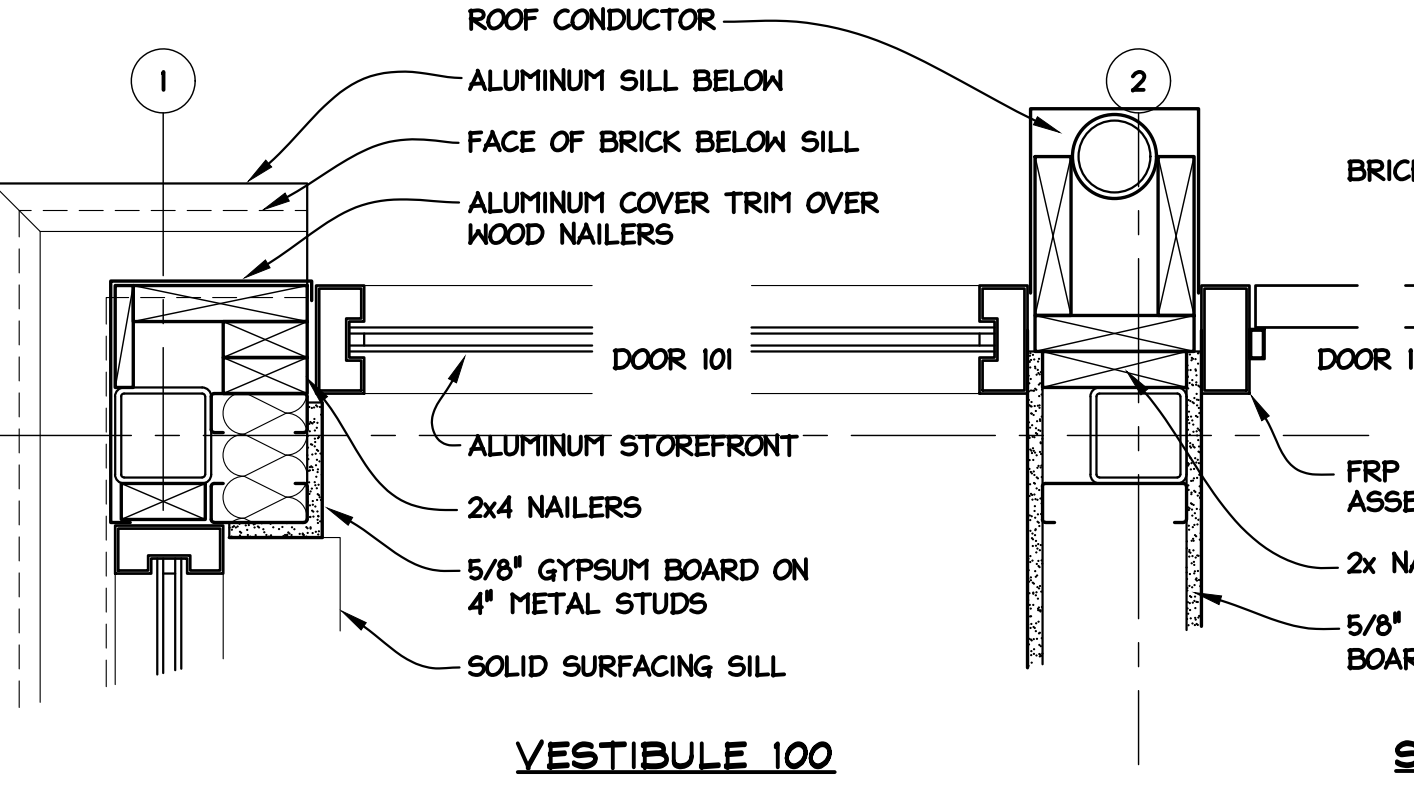
12 WOOD STUD PARTITION WALL DOOR HEAD AND JAMB
1-1/2" = 1'-0"



13 DOOR 201 DOOR HEAD AND JAMB
1-1/2" = 1'-0"

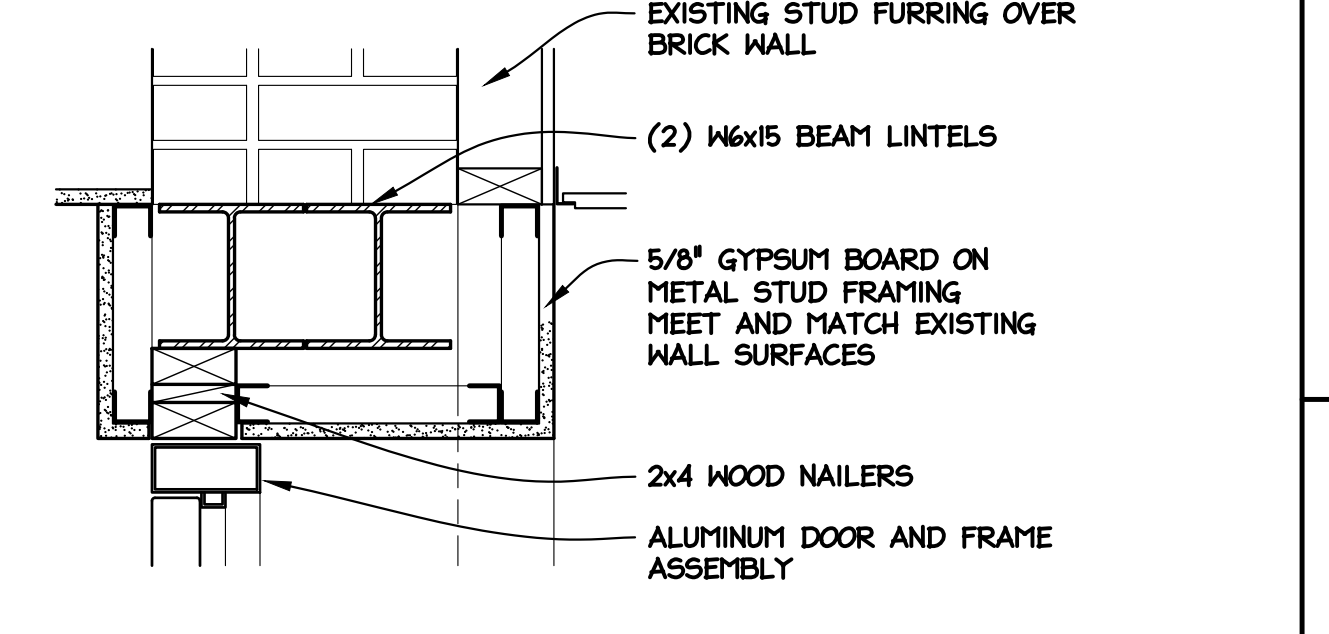


14 WALL SECTION BELOW VESTIBULE 100 / STAIR 1 DOOR JAMBS
1-1/2" = 1'-0"



15 VESTIBULE 100 DOOR HEAD SECTION
1-1/2" = 1'-0"

DOOR AND FRAME SCHEDULE								
DOOR NO.	DOOR SIZE	DOOR TYPE	FRAME TYPE	DOOR HEAD DETAIL	DOOR JAMB DETAIL	HARDWARE SET	FIRE RATING (MINUTES)	NOTES
01	3'-0" x 7'-0"	B	IB	A3.2	A3.2	H-1	60	CARD READER ACCESS
02	3'-0" x 6'-8"	B	IA	A6.3	A6.3	H-15	--	
03	3'-0" x 6'-8"	B	IA	A6.3	A6.3	H-16	--	
04	3'-0" x 6'-8"	B	IA	A6.3	A6.3	H-17	--	
05	3'-0" x 7'-0"	B	IB	A6.3	A6.3	H-11	60	8" FRAME
06	3'-0" x 6'-8"	C	WOOD	A6.3	A6.3	H-2	--	CARD READER ACCESS
07	3'-0" x 6'-8"	C	WOOD	A6.3	A6.3	H-18	--	
08	3'-0" x 7'-0"	B	IB	A6.3	A6.3	H-15	--	
09	3'-0" x 7'-0"	B	IB	A6.3	A6.3	H-12	60	
101	3'-0" x 7'-0"	A	ALUM	A6.3	A6.3	H-3	--	CARD READER ACCESS
102	3'-0" x 7'-0"	A	ALUM	A6.3	A6.3	H-14	--	
103	3'-0" x 7'-0"	B	IB	A6.3	A6.3	H-4	--	CARD READER ACCESS
104	3'-0" x 7'-0"	B	IB	A6.2	A6.2	H-5	60	CARD READER ACCESS
105	3'-0" x 6'-8"	D	WOOD	EXISTING	A6.3	H-6	--	CARD READER ACCESS
106	3'-0" x 6'-8"	B	IA	A6.3	A6.3	H-21	--	
107	3'-0" x 6'-8"	D	WOOD	A6.3	A6.3	H-18	--	
108	3'-0" x 6'-8"	D	WOOD	A6.3	A6.3	H-22	--	
109	3'-0" x 6'-8"	C	IA	A1.4	A6.2	H-23	--	
110	3'-0" x 6'-8"	C	IA	A1.4	A6.2	H-23	--	
111	3'-0" x 6'-8"	C	WOOD	A6.3	A6.3	H-7	--	CARD READER ACCESS
112	3'-0" x 7'-0"	B	IB	A6.3	A6.3	H-12	60	
113	3'-0" x 6'-8"	C	WOOD	A6.3	A6.3	H-22	--	
114	3'-0" x 7'-0"	B	IB	A6.3	A6.3	H-12	60	
115	3'-0" x 6'-8"	C	WOOD	A6.3	A6.3	H-22	--	
116	3'-0" x 6'-8"	C	WOOD	A6.3	A6.3	H-22	--	
117	3'-0" x 6'-8"	C	WOOD	A6.3	A6.3	H-22	--	
118	3'-0" x 7'-0"	B	IB	A6.3	A6.3	H-8	60	CARD READER ACCESS
119	3'-0" x 7'-0"	B	IB	A6.3	A6.3	H-13	60	
120	(2) 2'-6" x 6'-8"	C	IA	EXISTING	A6.3	H-20	--	VERIFY HEAD HEIGHT OF EXISTING OPENING
121	(2) 3'-0" x 6'-8"	D	IA	A6.3	A6.3	H-9	--	CARD READER ACCESS VERIFY THICKNESS OF WALL
122	3'-6" x 7'-0"	EXIST	EXIST	ALUM	ALUM	H-10	--	CARD READER ACCESS
201	3'-0" x 7'-0"	B	IB	A6.3	A6.3	H-5	60	CARD READER ACCESS
202	3'-0" x 6'-8"	B	IA	A6.3	A6.3	H-15	--	
203	3'-0" x 6'-8"	B	IA	A6.3	A6.3	H-15	--	
204	3'-0" x 6'-8"	D	IA	A6.3	A6.4	H-22	--	
205	3'-0" x 6'-8"	C	WOOD	A6.3	A6.3	H-22	--	
206	3'-0" x 6'-8"	D	IA	A6.3	A6.3	H-22	--	
207	3'-0" x 6'-8"	D	IA	A6.3	A6.3	H-24	--	
208	3'-0" x 6'-0"	A	FRP	A6.3	A6.3	H-19	--	
209	3'-0" x 6'-8"	C	IA	A6.3	A6.3	H-23	--	
210	3'-0" x 6'-8"	C	IA	A6.3	A6.3	H-21	--	
211	3'-0" x 7'-0"	B	IB	A6.3	A6.3	H-5	60	CARD READER ACCESS



15 DOOR 102 DOOR HEAD SECTION
1-1/2" = 1'-0"

Seal
 REVIEWED BY: TIG
 DRAWN BY: LRD
 DATE: 04/27/23
 REVISION/ISSUANCE: 05/26/23
 OWNER'S APPROVAL: 05/26/23
 PROJECT NO: 20240
 SCALE: AS NOTED
 DATE: 05/26/23
 CAD FILE: A603

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI

DOOR AND FRAME SCHEDULE AND DETAILS

105+ Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax
 www.nj&b-architects.com

A6.3

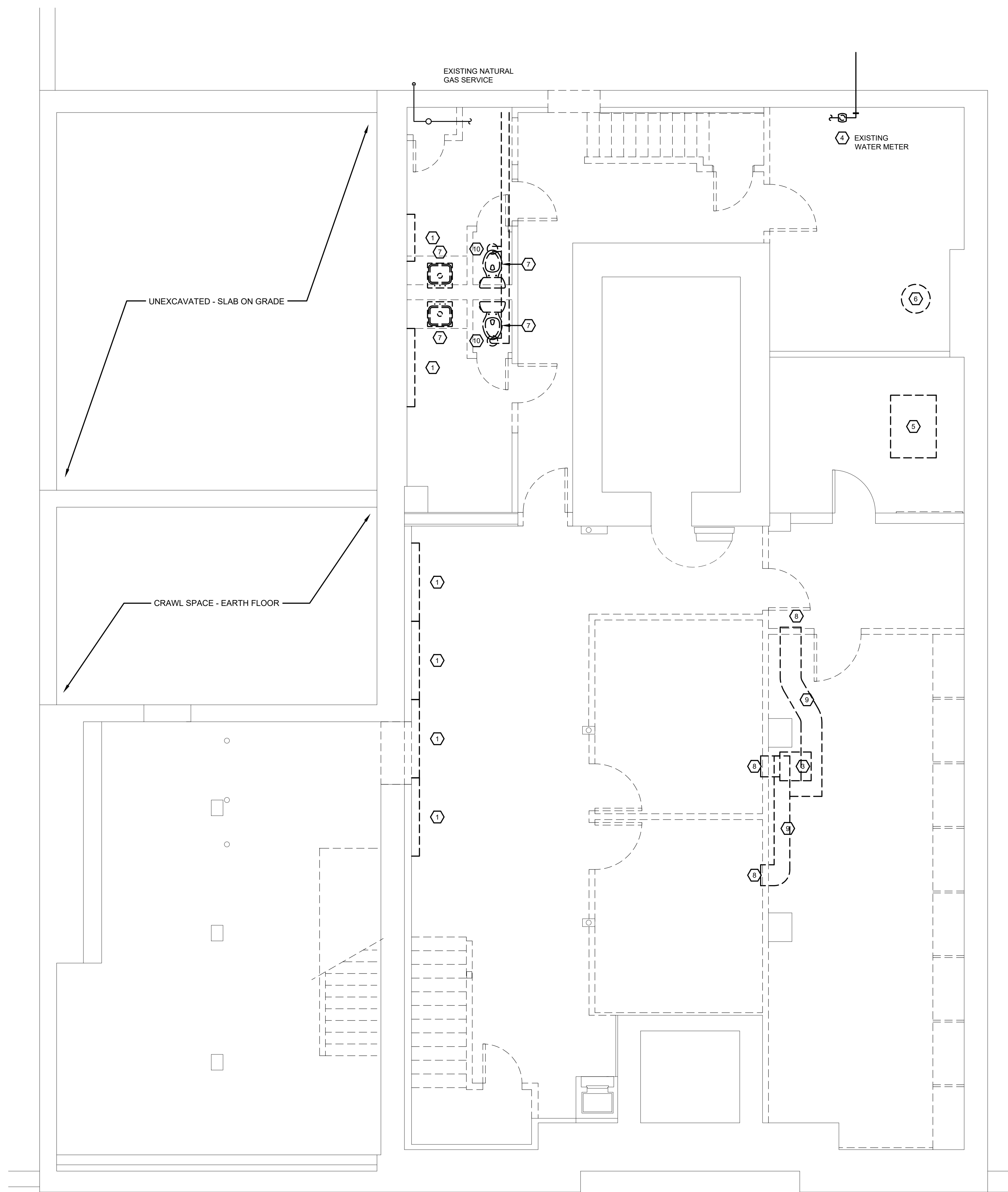
21 OF 47 SHEET TOTAL SHEETS

KEYED DEMOLITION NOTES

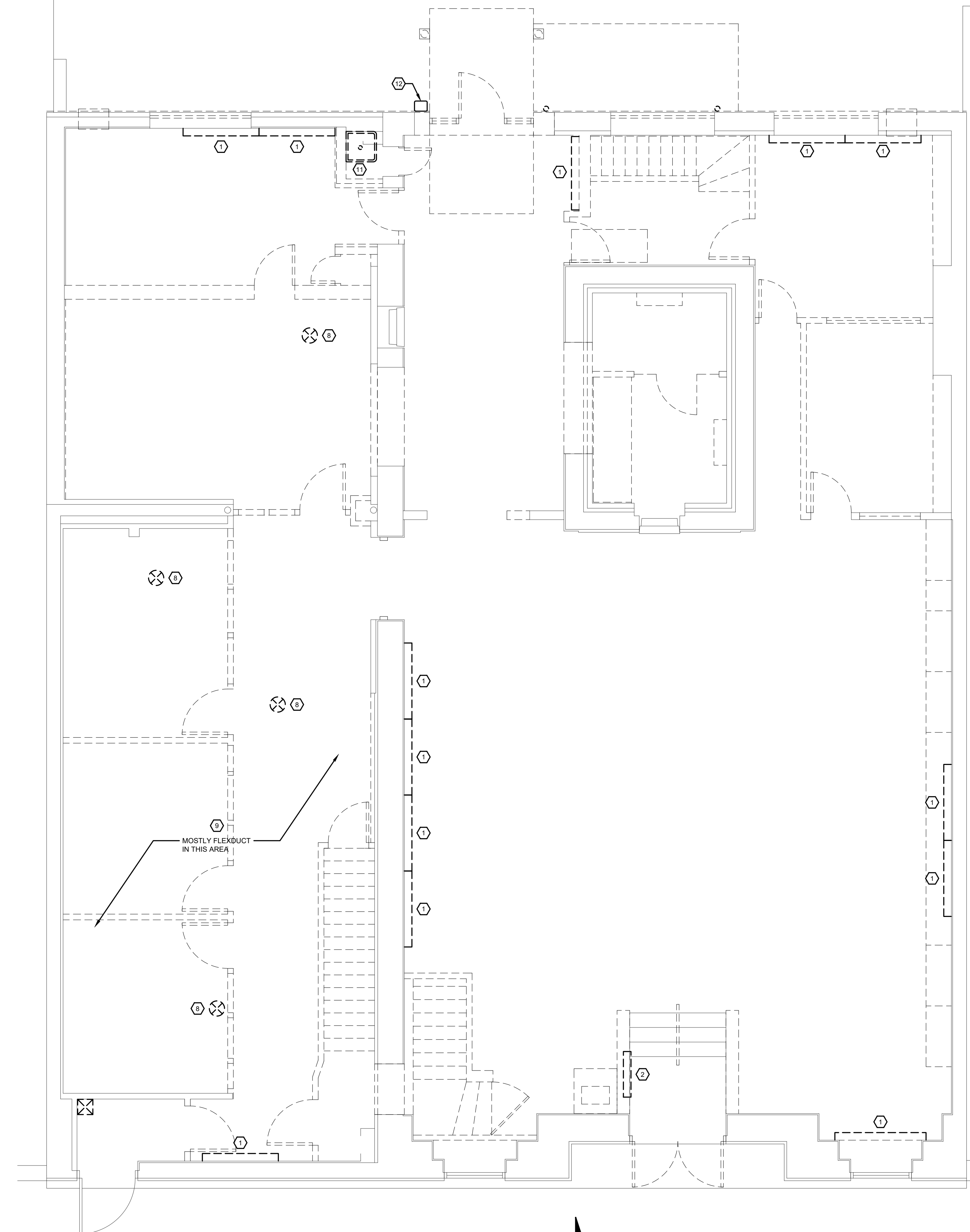
- ① REMOVE HOT WATER FIN TUBE RADIATION AND ALL ASSOCIATED PIPING. CAP PIPING FLUSH WITH FLOOR OR WALL SURFACE WERE CONCEALED.
- ② REMOVE RECESSED HOT WATER CABINET HEATER AND ALL ASSOCIATED PIPING. CAP PIPING IN WALL.
- ③ REMOVE FORCED AIR FURNACE AND ALL ASSOCIATED GAS PIPING, DUCTWORK, ETC.
- ④ REMOVE WATER METER AND CAP WATER SOURCE AT WALL SURFACE
- ⑤ REMOVE HOT WATER BOILER AND ASSOCIATED PUMPS, PIPING, BREECHING, ETC.
- ⑥ REMOVE DOMESTIC HOT WATER HEATER AND ALL ASSOCIATED PIPING
- ⑦ REMOVE PLUMBING FIXTURE AND PREP / REWORK COLD WATER, HOT WATER, SANITARY AND VENT PIPING CONNECTIONS AS REQUIRED FOR NEW FIXTURES
- ⑧ REMOVE SUPPLY AND/OR RETURN AIR DIFFUSERS
- ⑨ REMOVE ALL SUPPLY AND/OR RETURN AIR DUCTWORK
- ⑩ REMOVE EXHAUST FANS, GRILLES AND ALL ASSOCIATED DUCTWORK
- ⑪ REMOVE SERVICE SINK AND ALL CONNECTED HOT WATER, COLD WATER, SANITARY AND VENT PIPING
- ⑫ REMOVE AND RELOCATE GAS METER (BY UTILITY COMPANY)

GENERAL DEMOLITION NOTES

1. DEMOLITION INFORMATION IS PROVIDED TO ASSIST WITH REMOVAL COSTS. MECHANICAL TRADES SHALL BE RESPONSIBLE TO CONFIRM ALL QUANTITIES AND THE INFORMATION PROVIDED.
2. MECHANICAL CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH ALL OTHER TRADES. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS TRADES FAILURE TO COORDINATE REQUIRED MECHANICAL DEMOLITION WITH OTHER TRADES.
3. ALL EXISTING SHEET METAL DUCTWORK AND/OR FLEXDUCTS ARE TO BE REMOVED.
4. ALL EXISTING HOT WATER HEATING PIPING IS TO BE REMOVED.
5. ALL EXISTING DOMESTIC COLD WATER AND HOT WATER PIPING IS TO BE REMOVED.



LOWER LEVEL - MECHANICAL
DEMOLITION PLAN
1/4" = 1'-0"



FIRST FLOOR - MECHANICAL
DEMOLITION PLAN
1/4" = 1'-0"

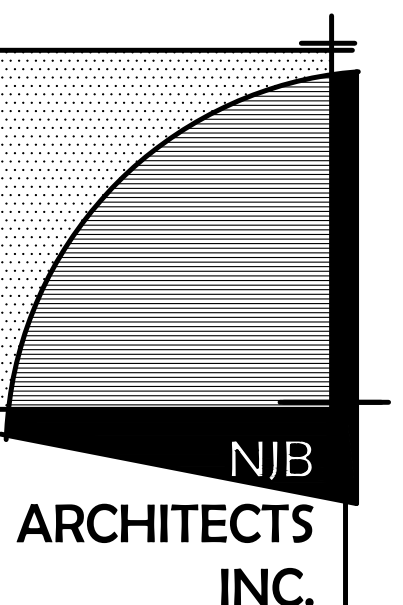
Seal

REV#	REVISION/SUBMISSION	DATE	DRAWN BY	REVIEWED BY
1	OWNERS APPROVAL	04/27/23	LJD	TLG
2	BID DOCUMENTS	05/26/23	PROJECT NO. 20240	SCALE AS NOTED
			CAD FILE	DATE 05/26/23

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES

171 N STATE ST
CARO, MI

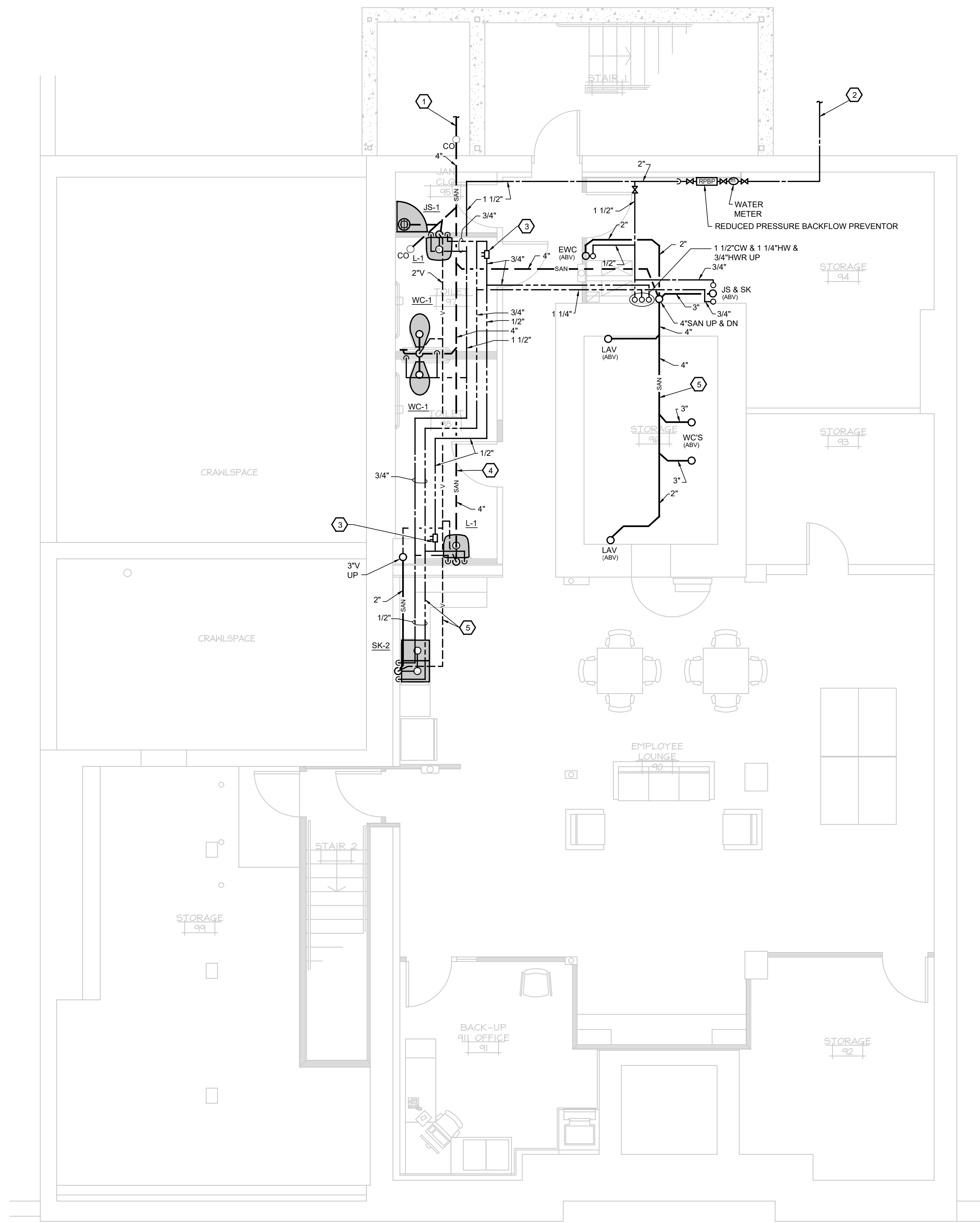
LOWER LEVEL AND FIRST FLOOR DEMOLITION PLANS



105+ Main Street
Flushing, Michigan 48433
810-659-7118 voice
810-659-7224 fax

www.njb-architects.com

M0.1



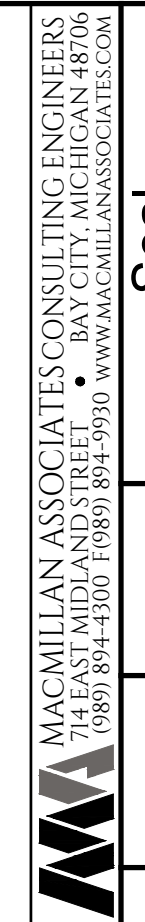
GENERAL NOTE

1. ALL PLUMBING, PIPING, VENTING, ETC. SHALL MEET CODE.

KEYED NOTES

- 1 NEW 4" SANITARY PIPING CONNECT TO EXISTING OUTSIDE BUILDING WITH CLEANOUT. FIELD VERIFY INV. EL.
- 2 2" COLD WATER SERVICE STUBBED 5'-0" OUTSIDE BUILDING. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING TO WATER SERVICE OUTSIDE OF BUILDING. COORDINATE EXACT LOCATION WITH SITE CONTRACTOR.
- 3 AUTOMATIC FLOW LIMITING VALVE, BALANCE TO 1 GPM.
- 4 NEW SANITARY BELOW FLOOR (TYP).
- 5 NEW SANITARY, VENT, DOMESTIC WATER PIPING ABOVE CEILING (TYP).

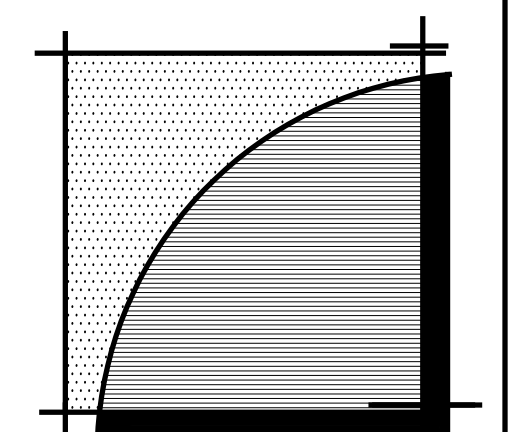
NORTH
 LOWER LEVEL PLAN - PLUMBING & PIPING
 1/4"=1'-0"



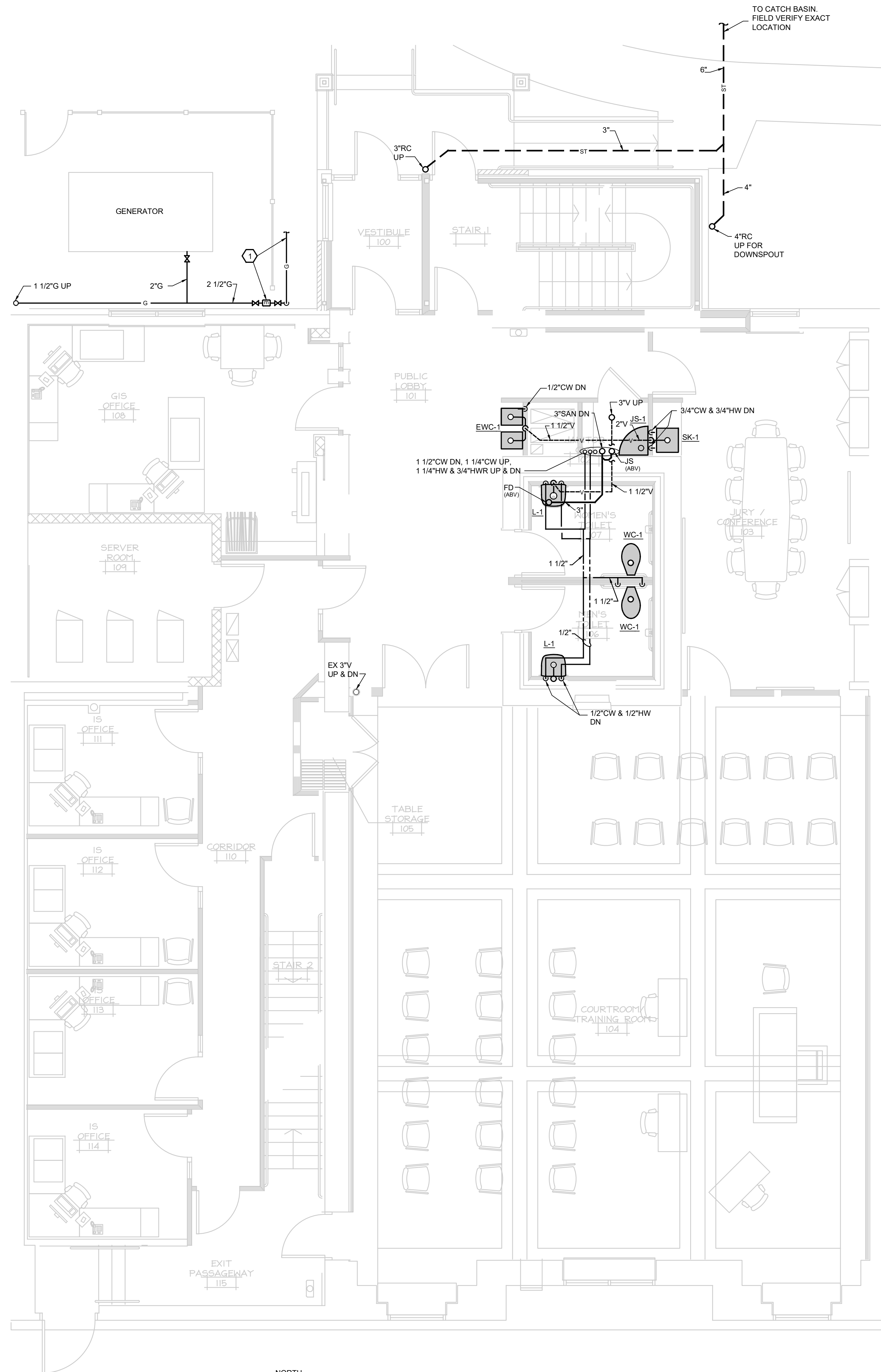
DATE	REVISION/DESCRIPTION	DATE	REVIEWED BY
05/26/23	1 BID DOCUMENTS	05/26/23	CVW
			DWM
			PROJECT NO. 220240
			SCALE AS NOTED
			DATE 05/26/23
			CAD FILE

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI

LOWER LEVEL PLAN - PLUMBING & PIPING



NJIB ARCHITECTS INC.
 105+ Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax
 www.njibarchitects.com



KEYED NOTES

① GAS SERVICE AND METER INSTALLED BY GAS COMPANY. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY COORDINATION WITH THE GAS COMPANY. THE OWNER WILL PAY ALL GAS COMPANY CHARGES ASSOCIATED WITH GAS SERVICE DIRECTLY TO THE GAS COMPANY. APPROXIMATE CONNECTED GAS LOAD IS 2113 CU. FT. PER HR AT 7" W.C..

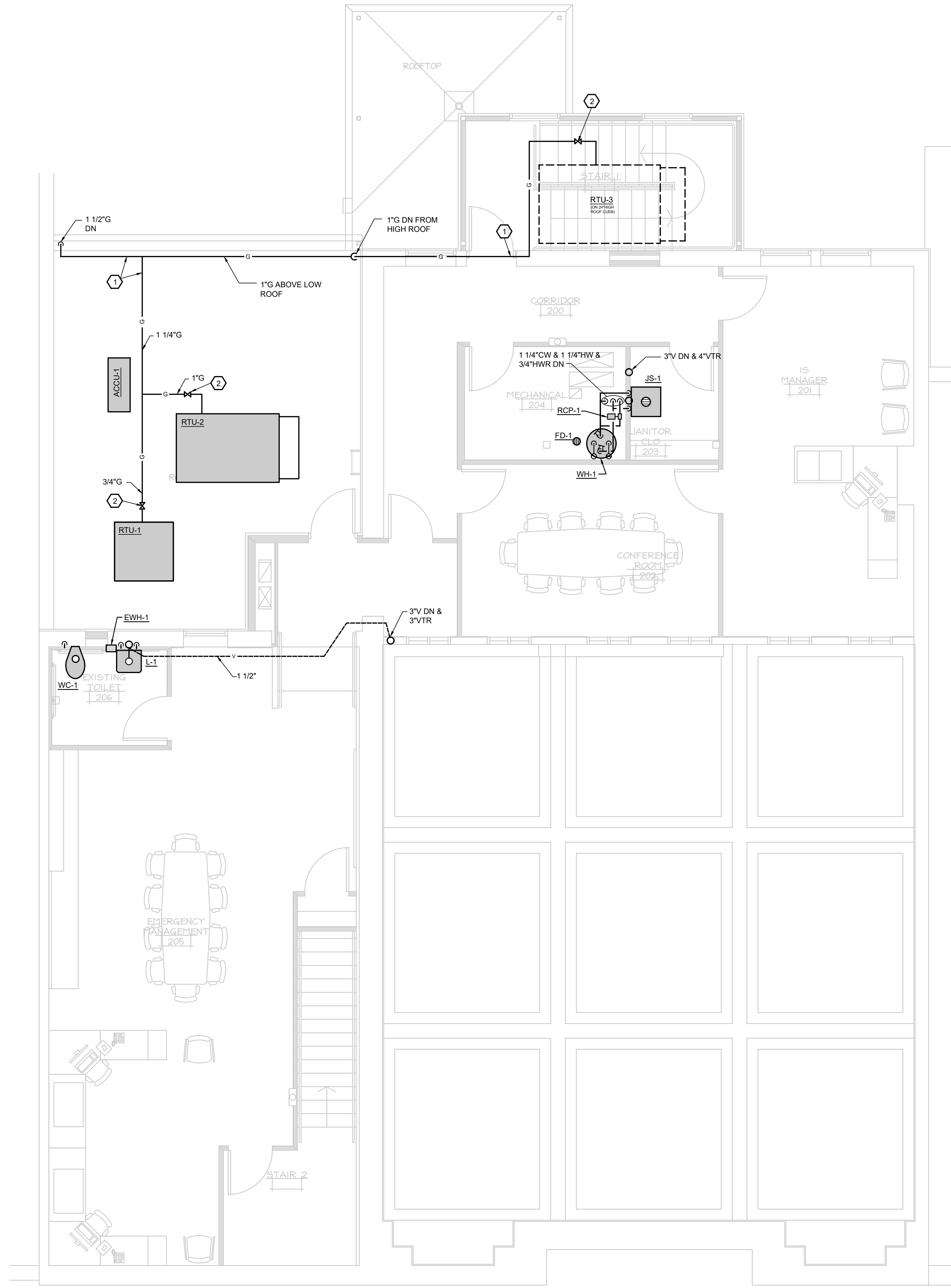
NORTH
FIRST FLOOR PLAN - PLUMBING & PIPING
 1/4"=1'-0"

GENERAL NOTE:
 ALL PLUMBING, PIPING, VENTING, ETC. SHALL MEET CODE.

		REVIEWED BY CAV	SEAL
DATE 05/26/23	DRAWN BY DMM	PROJECT NO. 220240	SCALE AS NOTED
REVISION/DESCRIPTION BID DOCUMENTS	DATE 05/26/23	PROJECT NO. 220240	SCALE AS NOTED
REV # 1	DATE 05/26/23	PROJECT NO. 220240	SCALE AS NOTED
REV # 1	DATE 05/26/23	PROJECT NO. 220240	SCALE AS NOTED

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI
FIRST FLOOR PLAN - PLUMBING & PIPING

NJIB ARCHITECTS INC.
 105+ Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax
 www.njibarchitects.com



- KEYED NOTES**
- ROUTE NATURAL GAS PIPING ON ROOF. SUPPORT NATURAL GAS PIPING WITH MIRO ROOF SUPPORTS MODEL 3-RS4-7 WITH SUPPORT AND SPACING PER CODE. PRIME AND PAINT ALL NATURAL GAS PIPING OUTDOORS WITH RUST INHIBITOR PAINT INCLUDING ZINC. COLOR OF PAINT SHALL BE YELLOW OR AS SELECTED BY ARCHITECT.
 - SHUT-OFF VALVE AT EACH ROOF TOP UNIT. SHUT-OFF VALVE SHALL BE PIPE SIZE AS SHOWN ON DRAWINGS AND SHALL NOT MATCH CONNECTION SIZE ON RTU. REDUCE NATURAL GAS CONNECTION AT RTU AS NECESSARY TO CONNECT TO RTU.

NORTH
SECOND FLOOR PLAN - PLUMBING & PIPING
 1/4"=1'-0"

MACMILLAN ASSOCIATES CONSULTING ENGINEERS
 74 E. EAST WINDY AND FREEDOM • BAY CITY, MICHIGAN 48706
 519.932.1100 FAX 519.932.1101 WWW.MACMILLAN-ASSOCIATES.COM

REV #	REVISION/DESCRIPTION	DATE	DRAWN BY	DATE	REVIEWED BY
1	BID DOCUMENTS	05/26/23	DMM	05/26/23	CVW

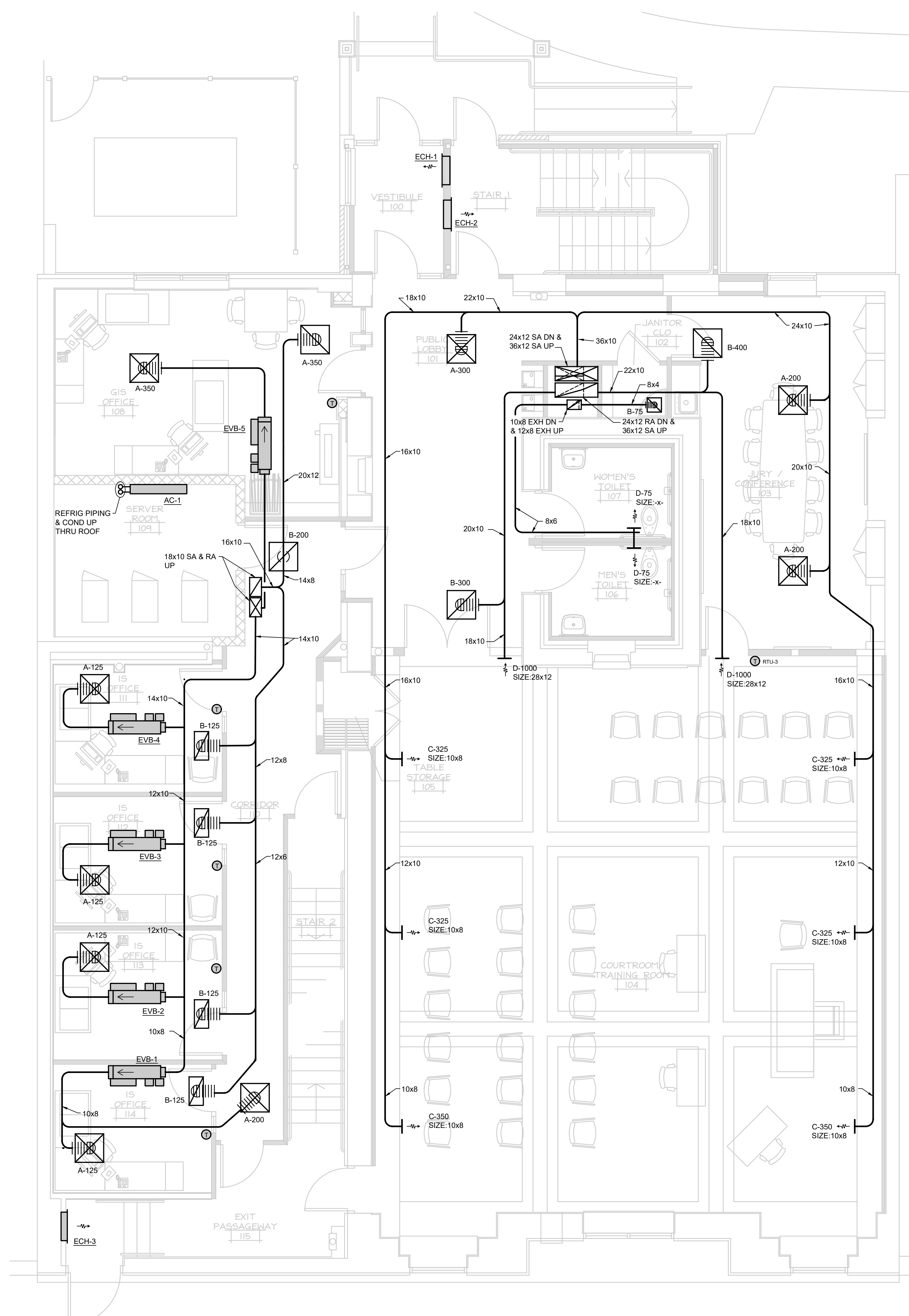
RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI

SECOND FLOOR PLAN - PLUMBING & PIPING

NJIB ARCHITECTS INC.
 105+ Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax
 www.njibarchitects.com

M1.3

26 OF 47 SHEET TOTAL SHEETS



NORTH
FIRST FLOOR PLAN - HVAC
1/4"=1'-0"

- GENERAL NOTES**
1. ALL NEW INDIVIDUAL BRANCH DUCTS SHALL BE SAME SIZE AS DIFFUSER, GRILLE OR VAB BOX INLET UNLESS NOTED OTHERWISE.
 2. FIELD VERIFY EXACT LOCATION OF NEW TEMPERATURE CONTROL SENSORS.
 3. TEST AND BALANCE CONTRACTOR SHALL BALANCE NEW DIFFUSERS AND GRILLES TO CFMS SHOWN 1-10%.
 4. NEW TEMPERATURE SENSORS SHALL BE TIED INTO EXISTING TEMPERATURE CONTROL SYSTEM.
 5. COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.

REVISIONS	DATE	REVISIONS	DATE
1	05/26/23	BID DOCUMENTS	05/26/23

REVIEWED BY	DATE	REVIEWED BY	DATE
CVI	05/26/23	CVI	05/26/23
DWM		DWM	
PROJECT NO.	220240	SCALE	AS NOTED
CAD FILE		DATE	05/26/23

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
171 N STATE ST
CARO, MI

FIRST FLOOR PLAN - HVAC

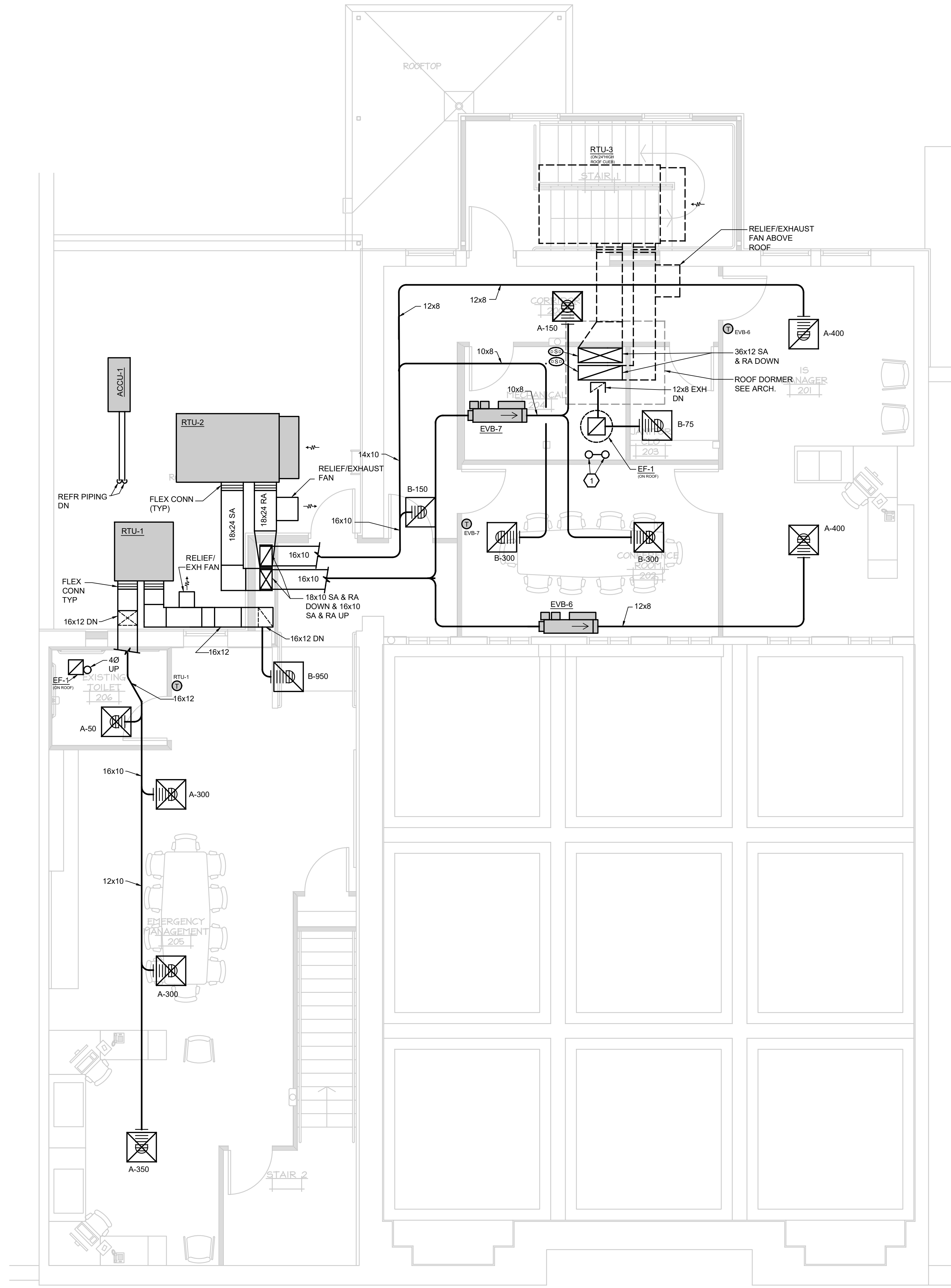
**NJIB
ARCHITECTS
INC.**

105+ Main Street
Flushing, Michigan 48433
810-659-7118 voice
810-659-7224 fax

www.njibarchitects.com

MACMILLAN ASSOCIATES CONSULTING ENGINEERS
74 E. EAST AVENUE AND FREELAN • RAY CITY, MICHIGAN 48766
734-233-1234 FAX 734-233-1235 WWW.MACMILLAN-ASSOCIATES.COM

Seal



NORTH
SECOND FLOOR PLAN - HVAC
 1/4"=1'-0"

GENERAL NOTES

1. ALL NEW INDIVIDUAL BRANCH DUCTS SHALL BE SAME SIZE AS DIFFUSER, GRILLE OR VAB BOX INLET UNLESS NOTED OTHERWISE.
2. FIELD VERIFY EXACT LOCATION OF NEW TEMPERATURE CONTROL SENSORS.
3. TEST AND BALANCE CONTRACTOR SHALL BALANCE NEW DIFFUSERS AND GRILLES TO CFM'S SHOWN 1-10%.
4. NEW TEMPERATURE SENSORS SHALL BE TIED INTO EXISTING TEMPERATURE CONTROL SYSTEM.
5. COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.

KEYED NOTES

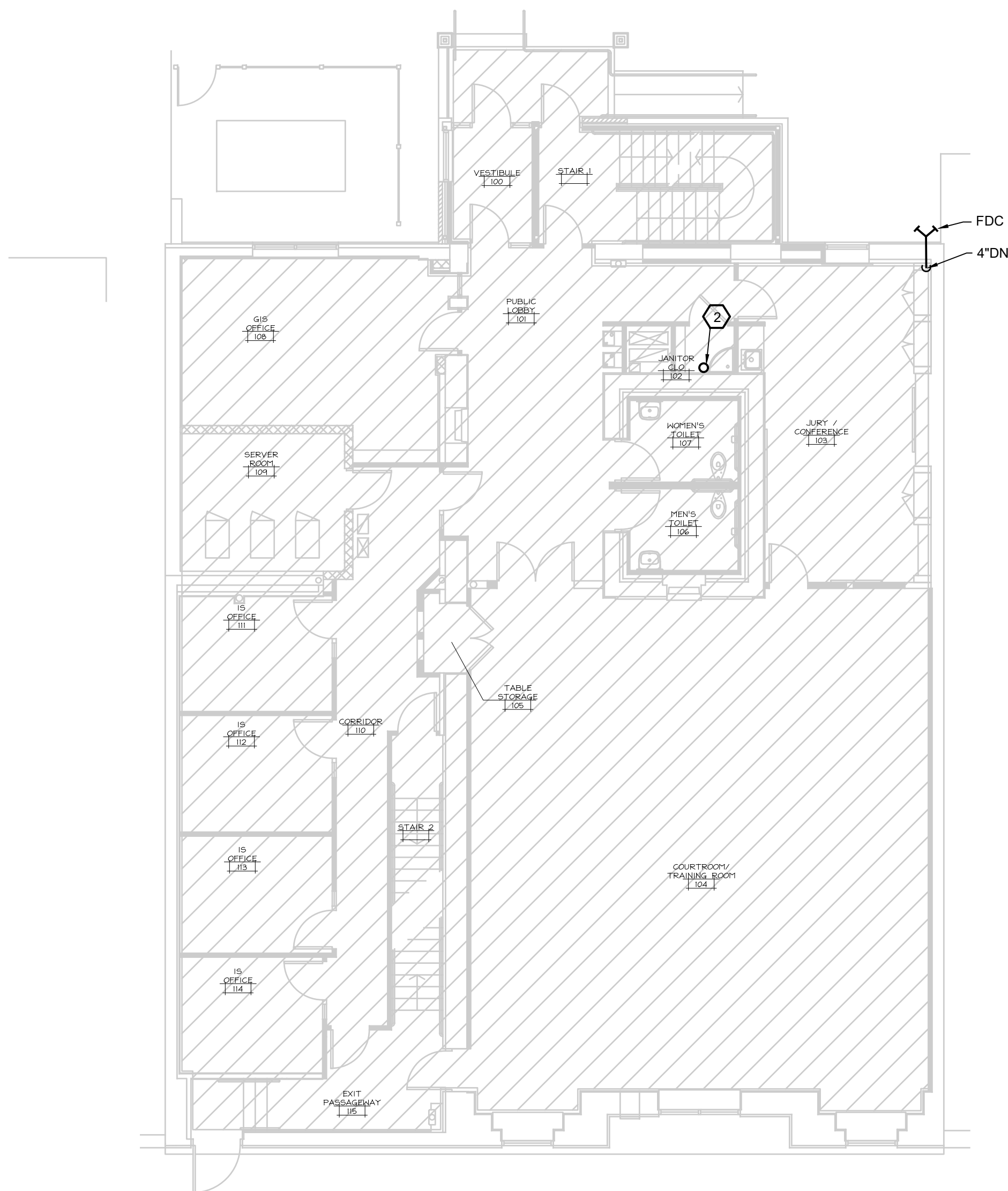
1. 2" PVC VENT AND INTAKE FROM WATER HEATER THRU ROOF TO CONCENTRIC VENT KIT.

MACMILLAN ASSOCIATES CONSULTING ENGINEERS
 714 EAST WILDA ANDERSON BLVD. • RAY CITY, MICHIGAN 48766
 517-932-1100 FAX 517-932-1109 WWW.MACMILLAN-ASSOCIATES.COM

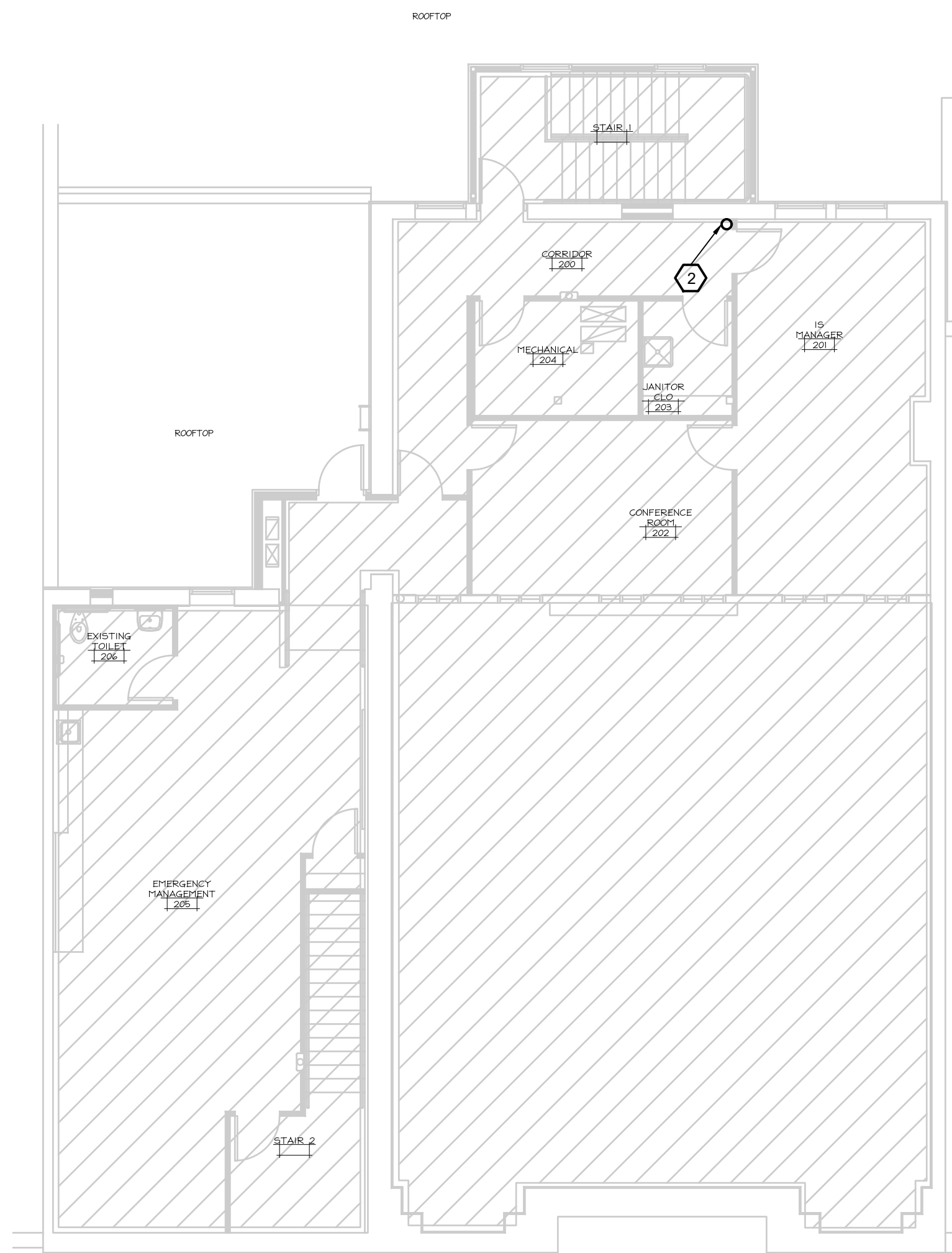
REV #	REVISION/DESCRIPTION	DATE	REVIEWED BY	DATE	REVIEWED BY
1	BID DOCUMENTS	05/26/23	DWM	05/26/23	CVW

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI
SECOND FLOOR PLAN - HVAC

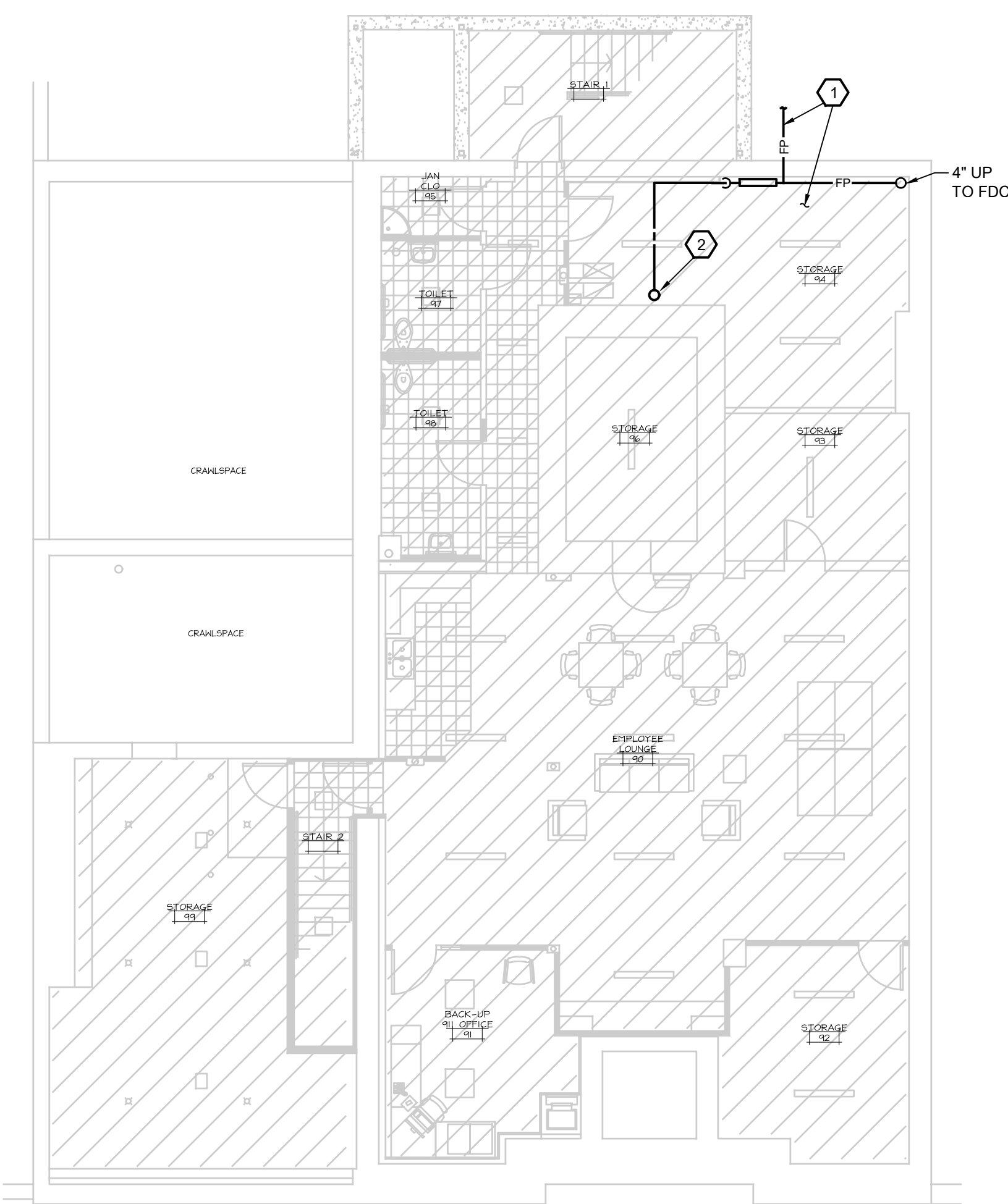
NJIB ARCHITECTS INC.
 105+ Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax
 www.njibarchitects.com



NORTH
FIRST FLOOR PLAN - FIRE PROTECTION
1/8"=1'-0"



NORTH
SECOND FLOOR PLAN - FIRE PROTECTION
1/8"=1'-0"



NORTH
LOWER LEVEL PLAN - FIRE PROTECTION
1/8"=1'-0"

FIRE PROTECTION NOTES

1. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING THE SERVICES OF A LICENSED FIRE PROTECTION CONTRACTOR TO DESIGN, DETAIL AND INSTALL A FIRE PROTECTION SPRINKLER SYSTEM TO COVER THE NEW AND/OR REMODELED AREAS.
2. THE ENTIRE FIRE PROTECTION SYSTEM DESIGN AND INSTALLATION SHALL BE STRICTLY IN ACCORDANCE WITH NFPA 13 SPRINKLER SYSTEMS AND SHALL MEET THE REQUIREMENTS OF THE LOCAL AND STATE FIRE MARSHAL AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
3. ALL PERMITS, LICENSES, FEES, INSPECTIONS AND ARRANGEMENT/COORDINATION OF SUCH SHALL BE OBTAINED AND PAID FOR BY THE FIRE PROTECTION CONTRACTOR.
4. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE A FLOW TEST AND FURNISH COMPLETE DETAILED COMPUTER AIDED DESIGN (CAD) WORKING DRAWINGS OF THE SYSTEM AND SHALL SUBMIT THEM TO THE FIRE MARSHAL, ARCHITECT/ENGINEER, AND ALL AGENCIES REQUIRED BY CODE FOR THEIR REVIEW AND APPROVAL. NO WORK OR FABRICATION SHALL COMMENCE BEFORE THE DETAILED WORKING DRAWINGS OF THE SYSTEM, WITH THE AGENCIES APPROVALS, ARE SUBMITTED TO AND ARE REVIEWED BY THE ARCHITECT/ENGINEER. SYSTEM SHALL BE COMPLETE WITH OUTSIDE ALARM BELL, FLOW SWITCH, SUPERVISORY SWITCH ON SYSTEM CONTROL VALVE, HYDRAULIC DESIGN PLATE AT MAIN RISER, SPARE HEADS AND WRENCH, DOCUMENTATION, ETC.
5. THE FIRE PROTECTION CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND VERIFY THE IN LOCATION, ROUTING OF PIPING, LOCATION OF SPRINKLER HEADS WITH RESPECT TO DUCTS, EQUIPMENT, LIGHT FIXTURES, ETC. SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILES AND HALF TILES.
6. LAYOUT AND DESIGN OF THE SYSTEM SHALL BE BASICALLY AS DESIGNED FOR REQUIRED OCCUPANCY HAZARD. SECURITY TYPE HEADS SHALL BE USED IN SECURE AREAS. SYSTEMS SHALL BE SIZED BY HYDRAULIC CALCULATIONS PER NFPA PAMPHLET NO. 13. EXTENDED COVERAGE SPRINKLER HEAD SYSTEM WILL NOT BE ACCEPTED WITHOUT WRITTEN APPROVAL FROM ENGINEER.
7. DRAWINGS SHOW POSSIBLE LOCATION AND SIZE FOR FIRE PROTECTION WATER SERVICE. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE FIRE PROTECTION WATER SERVICE SIZE BY VERIFICATION OF LOCAL WATER PRESSURE AND FLOW FROM THE LOCAL AUTHORITIES. THIS VERIFICATION SHALL BE PERFORMED DURING BIDDING AND NOTIFICATION TO THE ARCHITECT/ENGINEER OF ANY NECESSARY FIRE PROTECTION SERVICE CHANGES SHALL BE MADE 5 DAYS PRIOR TO BID DATE. THE COMPLETED SYSTEM SHALL BE IN ACCORDANCE WITH NFPA-13 REQUIREMENTS.
8. THE CONTRACTOR SHALL INCLUDE IN THEIR BID ANY COST FOR REQUESTING AUTOCAD BACKGROUNDS FOR THEIR USE FROM THE ARCHITECT OR ENGINEER. THE COST WILL BE \$150.00 FOR THE FIRST PLAN, AND \$50.00 FOR EACH ADDITIONAL PLAN THAT MAY BE REQUESTED FOR AUTOCAD USE. A WAIVER OF RESPONSIBILITY FOR THE ARCHITECT AND ENGINEER RELATED TO CONTRACTOR USE OF THE CAD FILES SHALL BE SIGNED BY THE CONTRACTOR.
9. SEE SPECIFICATION FOR FURTHER INFORMATION AND REQUIREMENTS.

KEYED NOTES

- ① FIRE PROTECTION SERVICE TO 5'-0" BEYOND BUILDING WALL. THE FIRE PROTECTION SYSTEM CONTRACTOR SHALL DESIGN, LAYOUT, FURNISH AND INSTALL THE FIRE PROTECTION SPRINKLER SYSTEM FOR THE ENTIRE BASEMENT, FIRST FLOOR AND SECOND FLOOR AREAS THAT ARE HATCHED.
- ② FIRE PROTECTION RISER UP SERVING FIRST AND SECOND FLOOR. FIELD VERIFY EXACT LOCATION.

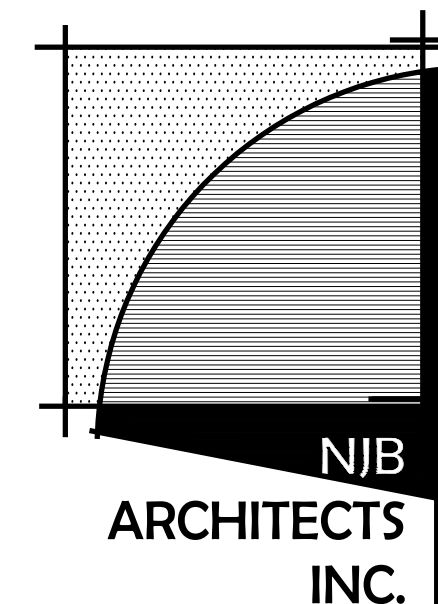
MACMILLAN ASSOCIATES CONSULTING ENGINEERS
 1701 EAST WILSON AVENUE, SUITE 200
 TROY, MI 48068-1500
 TEL: 313-286-1100 FAX: 313-286-1101
 WWW.MACMILLAN-ASSOCIATES.COM

Seal

REV #	REVISION/DESCRIPTION	DATE	DRAWN BY	CHECKED BY	SCALE	PROJECT NO.	DATE
1	BID DOCUMENTS	05/26/23	DMM	CVW	AS NOTED	220240	05/26/23

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI

LOWER LEVEL PLAN - PLUMBING & PIPING

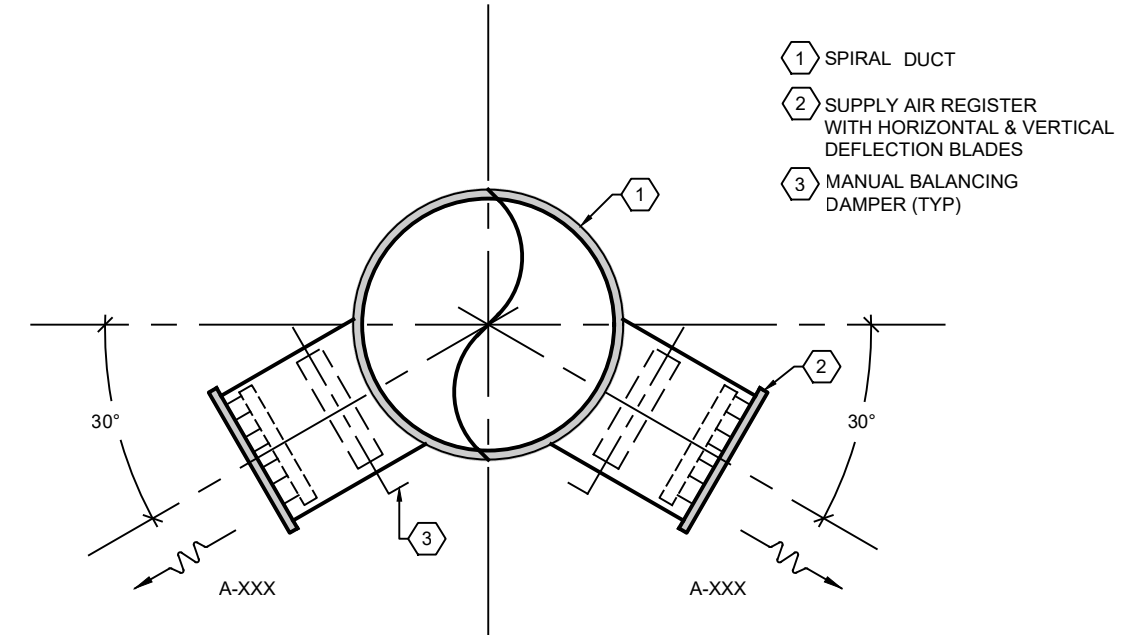


105+ Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax

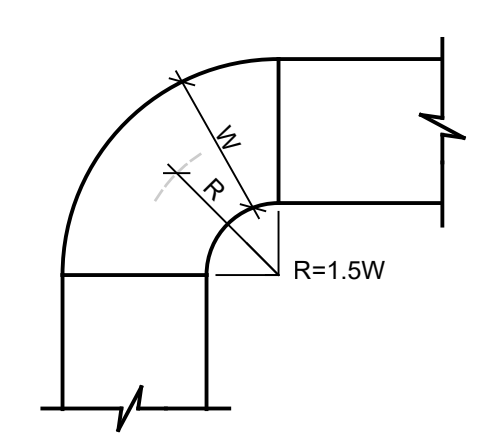
www.njibarchitects.com

M3.1

MECHANICAL SYMBOL LIST	
--- SAN ---	SANITARY PIPING BELOW FLOOR OR GRADE
--- SAN ---	SANITARY PIPING ABOVE FLOOR
--- ST ---	STORM PIPING BELOW FLOOR OR GRADE
--- ST ---	STORM PIPING ABOVE FLOOR
--- SED ---	SECONDARY EMERGENCY DRAINAGE PIPING
--- AW ---	ACID WASTE PIPING BELOW FLOOR OR GRADE
--- AW ---	ACID WASTE PIPING ABOVE FLOOR
--- TP ---	TRAP PRIMER PIPING BELOW FLOOR
--- SN ---	CO ABOVE FLOOR
--- SN ---	CO UP TO GRADE
--- SN ---	CO UP TO FLOOR
--- HPS ---	HEAT PUMP SUPPLY PIPING
--- HPS ---	HEAT PUMP RETURN PIPING
--- HWS ---	HEATING HOT WATER SUPPLY PIPING
--- HWR ---	HEATING HOT WATER RETURN PIPING
--- CHWS ---	CHILLED WATER SUPPLY PIPING
--- CHWR ---	CHILLED WATER RETURN PIPING
--- CTWS ---	COOLING TOWER WATER SUPPLY PIPING
--- CTWR ---	COOLING TOWER WATER RETURN PIPING
--- CWR ---	CONDENSOR WATER RETURN PIPING
--- CWS ---	CONDENSOR WATER SUPPLY PIPING
--- W ---	WATER PIPING LOCATED OUTSIDE OF BUILDING
--- STM (#150) ---	STEAM SUPPLY PIPING
--- COND ---	STEAM CONDENSATE RETURN PIPING
--- PCR ---	PUMPED CONDENSATE RETURN PIPING
--- RF ---	REFRIGERANT LINE
--- CD ---	MISC. EQUIP. COND. DRAIN PIPING
--- C ---	NATURAL GAS PIPING
--- V ---	VENT PIPING
--- AV ---	ACID VENT PIPING
--- DW ---	DOMESTIC COLD WATER PIPING
--- DHW ---	DOMESTIC HOT WATER PIPING
--- HW ---	HOT WATER PIPE WITH ELECTRICAL HEAT TRACE
--- DHW ---	DOMESTIC HOT WATER RETURN PIPING
--- FP ---	FIRE PROTECTION PIPING
--- CA ---	COMPRESSED AIR PIPING (INDUSTRIAL TYPE)
--- DI ---	DEIONIZED WATER PIPING
--- VAC ---	VACUUM PIPING
--- N ---	NITROGEN
--- NO2 ---	NITROUS OXIDE
--- A ---	AIR
--- O ---	OXYGEN PIPING
--- WAGD ---	WASTE ANESTHESIA
--- CO2 ---	CARBON DIOXIDE
--- T ---	TRIPLE DUTY VALVE
--- R ---	REDUCER
--- I ---	ISOLATION GATE VALVE
--- U ---	UNION
--- C ---	CHECK VALVE
--- T ---	TWO WAY CONTROL VALVE (PNEUMATIC)
--- E ---	THREE WAY CONTROL VALVE (PNEUMATIC)
--- T ---	TWO WAY CONTROL VALVE (ELECTRIC)
--- E ---	THREE WAY CONTROL VALVE (ELECTRIC)
--- G ---	ISOLATION GATE VALVE
--- G ---	GLOBE VALVE N.C.
--- G ---	GLOBE VALVE N.O.
--- K ---	KITCHEN MASTER GAS VALVE
--- G ---	GAS REGULATOR
--- F ---	FLOW ARROW
--- A ---	GRISWOLD AUTOMATIC FLOW LIMITING VALVE
--- P ---	PRESSURE REGULATING OR REDUCING VALVE
--- P ---	REDUCED PRESSURE BACKFLOW PREVENTER
--- J ---	EXPANSION JOINT
--- G ---	GAS Y GATE VALVE
--- S ---	STRAINER
--- M ---	MUA MAKE UP AIR UNIT
--- V ---	BALL VALVE
--- F ---	FLEXIBLE CONNECTION
--- G ---	GAS COCK
--- H ---	INTERIOR HOSE BIB
--- H ---	EXTERIOR WALL HYDRANT
--- R ---	VALVE IN RISER
--- C ---	ELBOW RISING UP
--- C ---	ELBOW DROPPING DOWN
--- T ---	TEE WITH PIPE UP
--- T ---	TEE WITH PIPE DOWN
--- P ---	PRESSURE REGULATING VALVE
--- P ---	TEMPERATURE & PRESSURE RELIEF VALVE
--- P ---	INLINE PUMP
--- P ---	PRESSURE SENSOR OR SWITCH
--- F ---	FLOW SWITCH
--- T ---	STEAM TRAP
--- T ---	THERMOMETER
--- P ---	PRESSURE GAUGE W/COCK
--- A ---	MANUAL AIR VENT
--- A ---	AUTOMATIC AIR VENT
--- A ---	PIPE ANCHOR
--- G ---	PIPE GUIDE
--- S ---	SERVICE SINK
--- U ---	UNIT HEATER
--- U ---	UNLESS NOTED OTHERWISE
--- U ---	URINAL
--- U ---	UNIT VENTILATOR
--- V ---	VENT
--- V ---	VALVE
--- V ---	VARIABLE AIR VOLUME BOX
--- V ---	VARIABLE AIR VOLUME BOX W/ RE-HEAT COIL
--- V ---	FLOOR DRAIN
--- V ---	CARBON DIOXIDE SENSOR
--- V ---	RHEOSTAT
--- V ---	VENT STACK
--- V ---	VENT THRU ROOF
--- V ---	WATER CLOSET
--- V ---	WALL CLEAN OUT
--- V ---	WATER HEATER
--- V ---	EXTERIOR WALL HYDRANT
--- V ---	TRAP
--- V ---	DIFFERENTIAL PRESSURE SENSOR

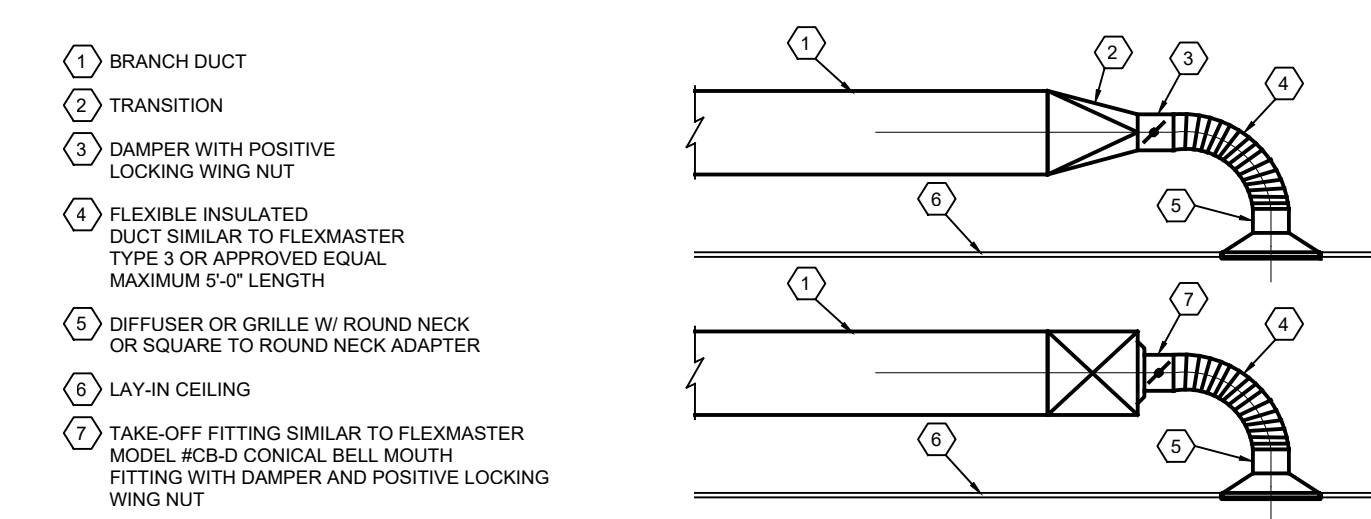


DUCT SECTION
NO SCALE

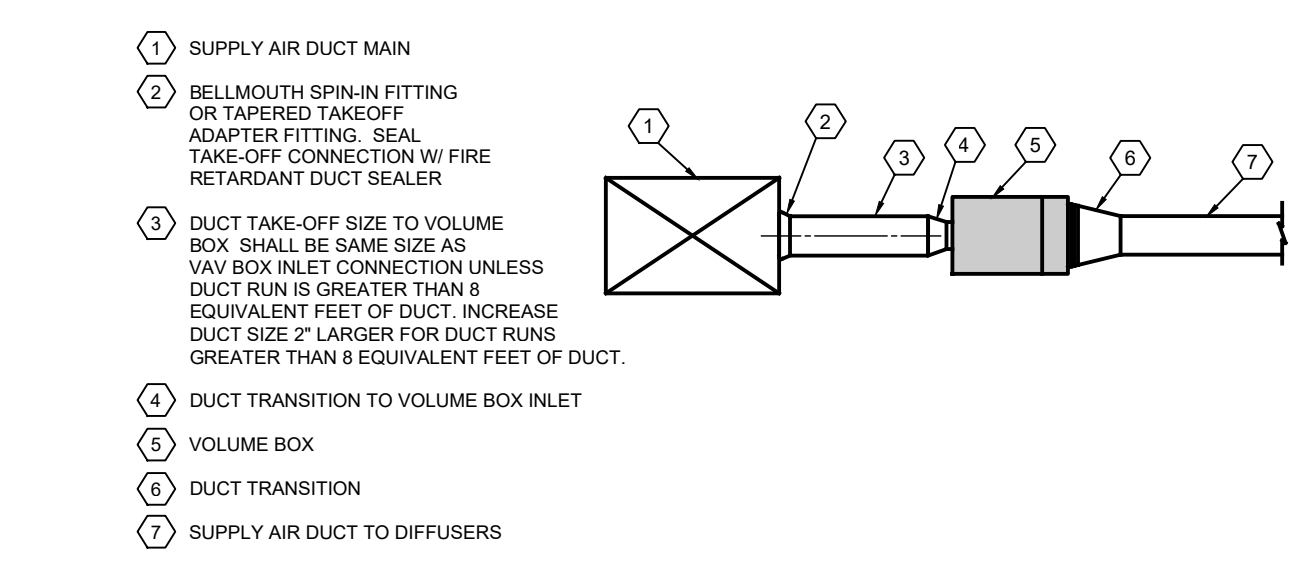


DUCTWORK RADIUS ELBOW
NO SCALE

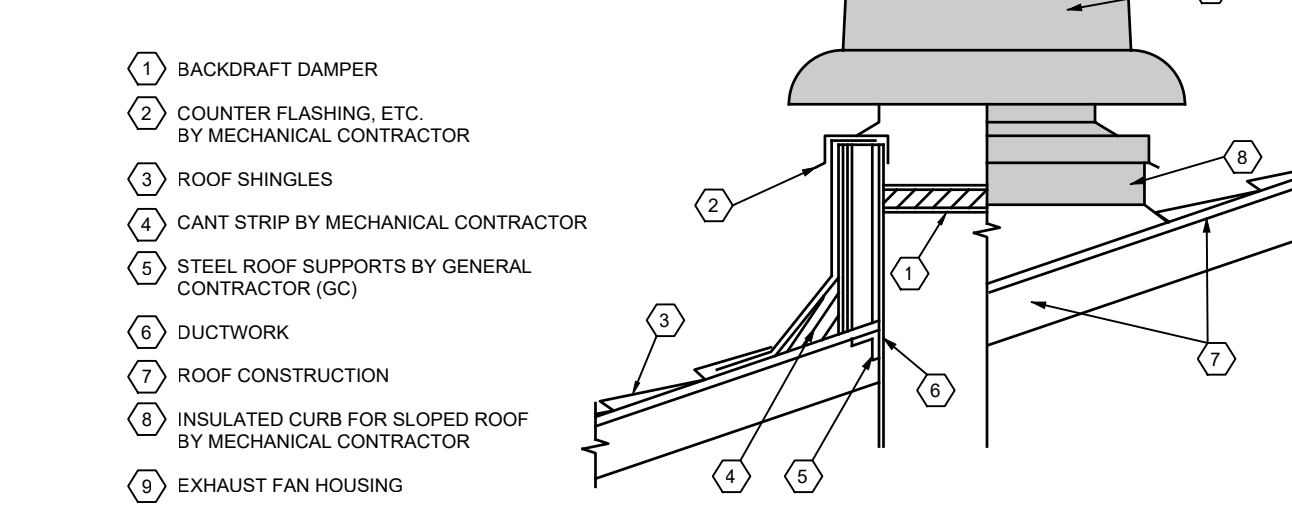
- NOTE
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
 2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH A SQUARE VANE MITERED ELBOW.
 3. NO MITERED ELBOWS WITHOUT VANES SHALL BE INSTALLED.



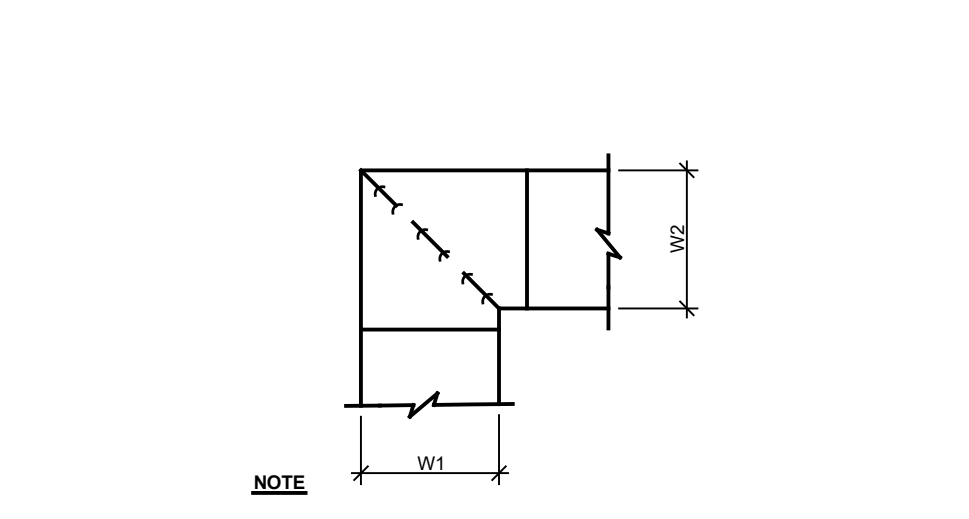
BRANCH DUCT CONNECTION TO DIFFUSER OR GRILLE DETAIL
NO SCALE



VOLUME BOX DUCTING DETAIL
NO SCALE

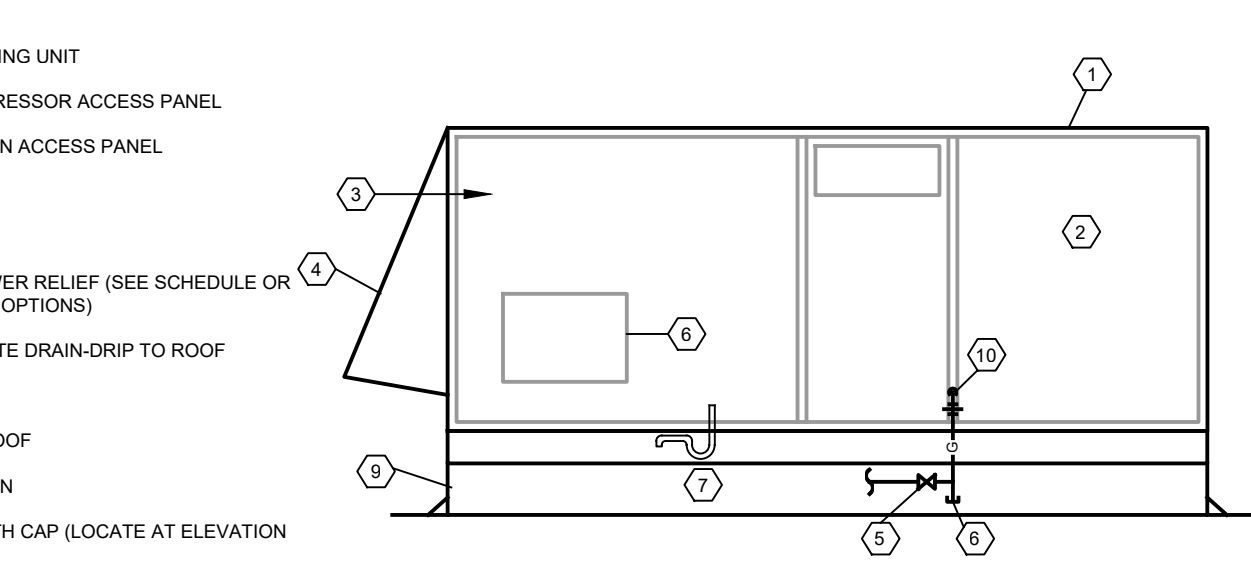


PITCHED ROOF EXHAUST FAN DETAIL
NO SCALE

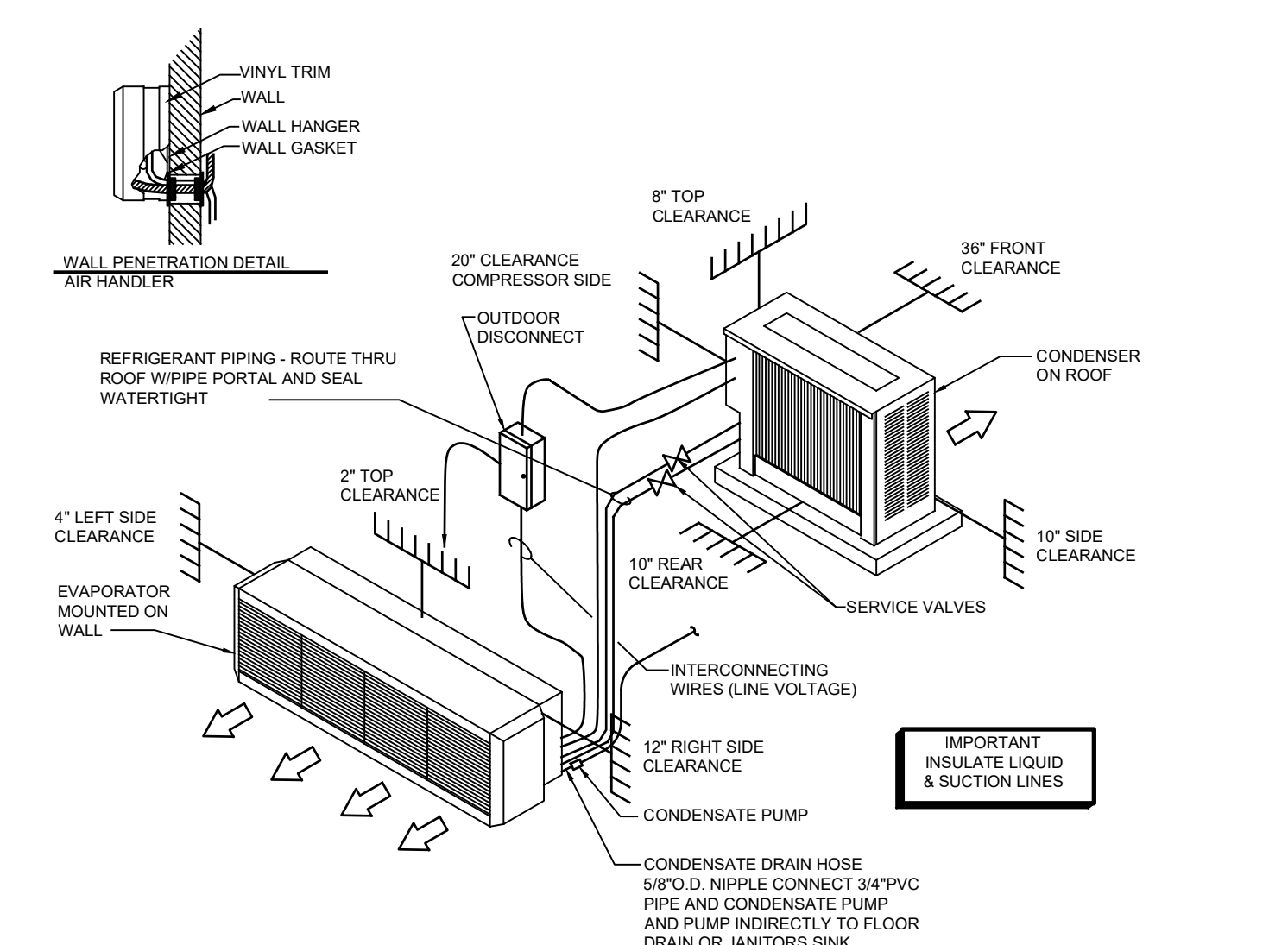


DUCTWORK SQUARE VANE MITERED ELBOWS
NO SCALE

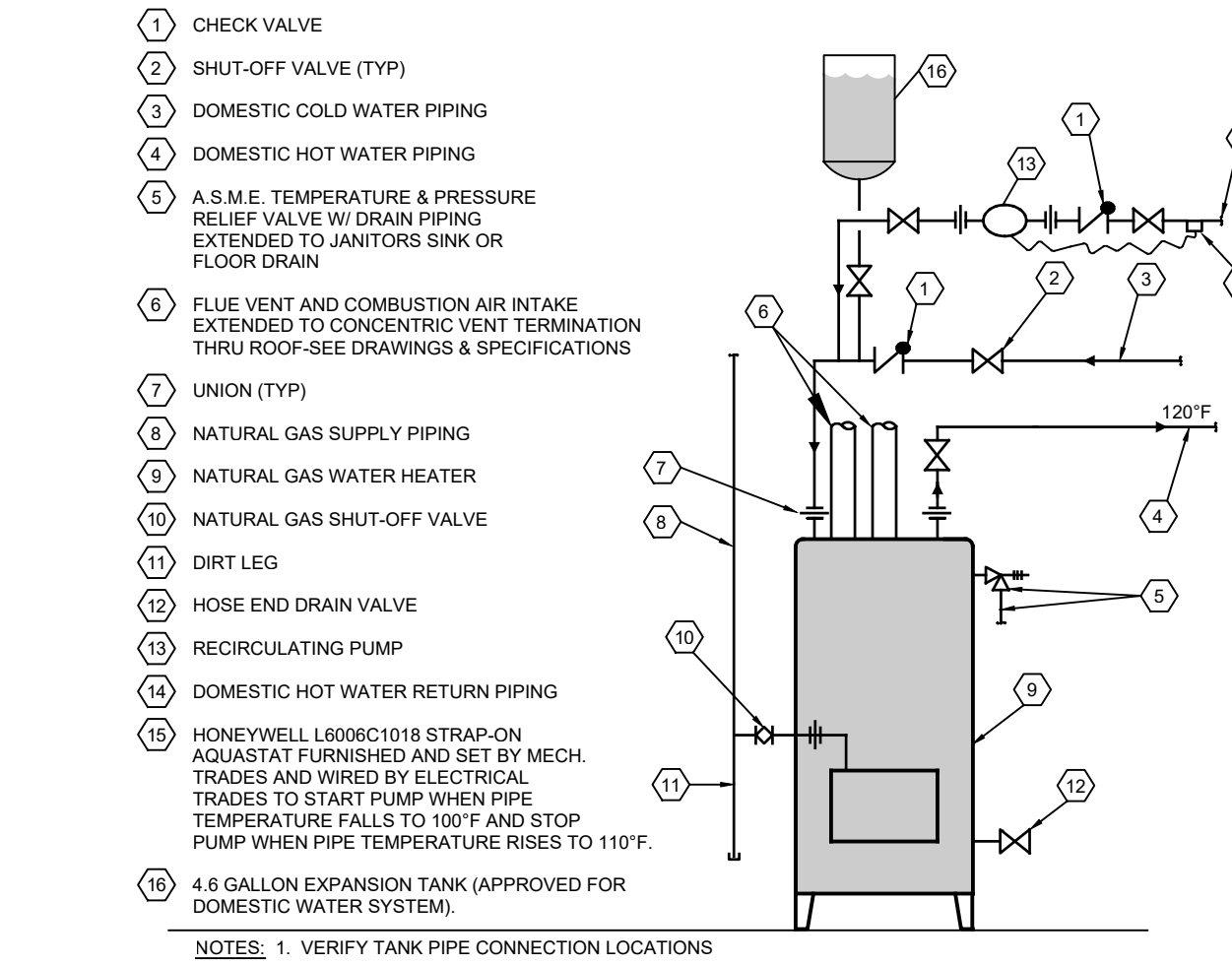
- NOTE
1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
 2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
 3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
 4. WHEN W1 EQUALS W2 AND W1 IS GREATER THAN 20", VANES SHALL BE DOUBLE VANE TYPE.
 5. NO MITERED ELBOW WITHOUT VANES SHALL BE INSTALLED.



ROOF TOP UNIT DETAIL
NO SCALE

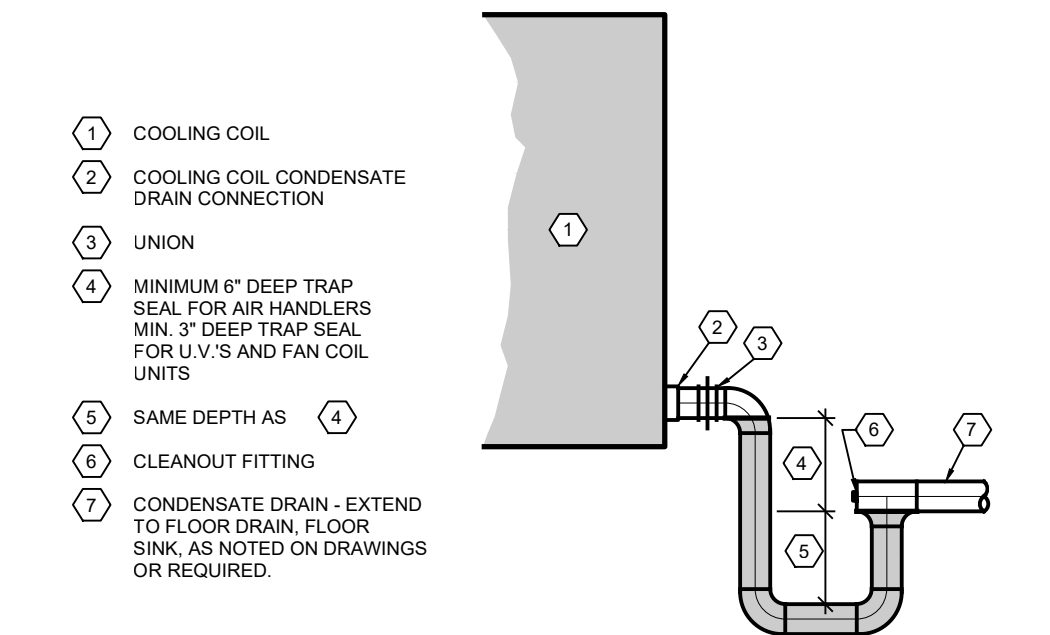


SERVER ROOM AIR CONDITIONER INSTALLATION DETAIL
NO SCALE (WALL MOUNTED)

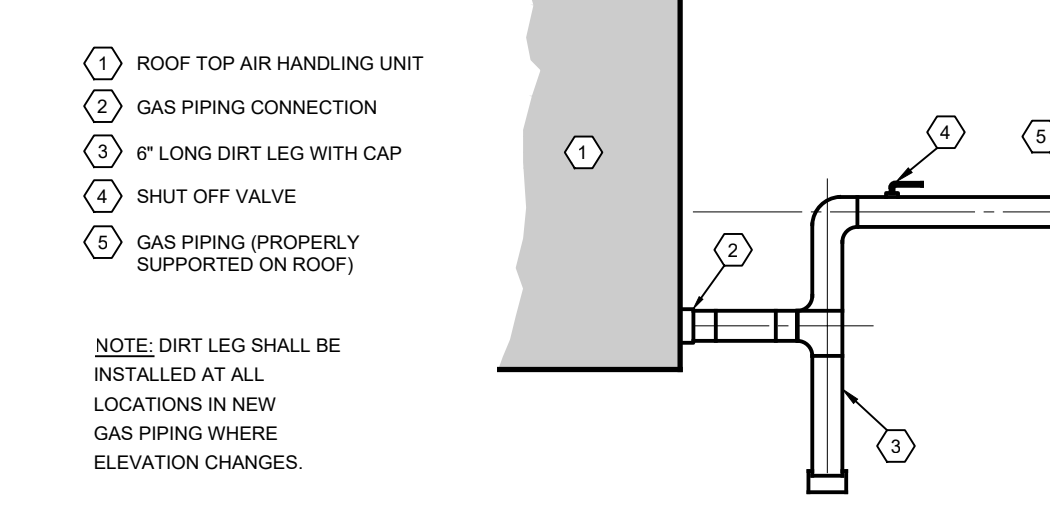


CONDENSING GAS WATER HEATER DETAIL
NO SCALE

- NOTE
1. VERIFY TANK PIPE CONNECTION LOCATIONS.
 2. SEE PLANS FOR PIPE SIZES.
 3. ADJUST WATER HEATER THERMOSTAT TO MAINTAIN 120°F.

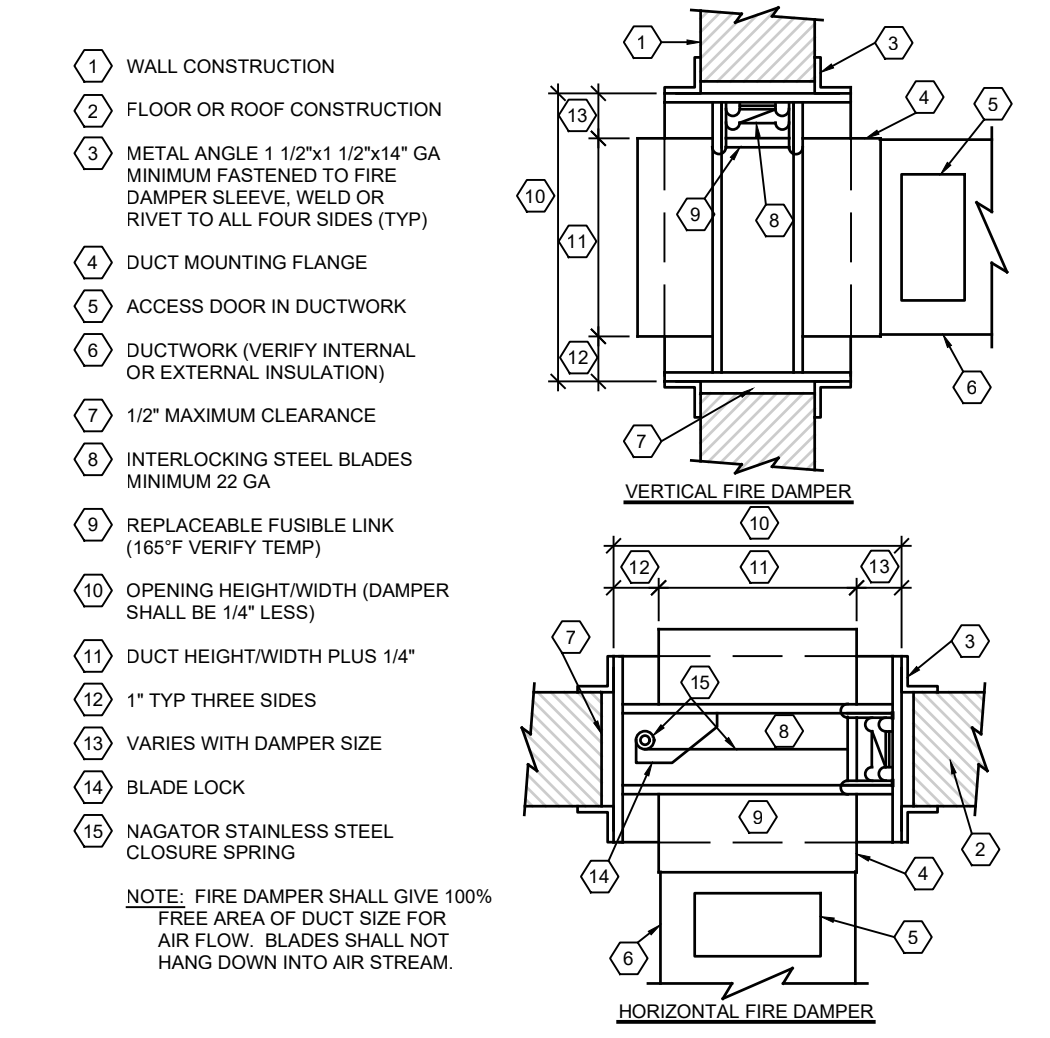


COOLING COIL CONDENSATE DRAIN TRAP DETAIL
NO SCALE

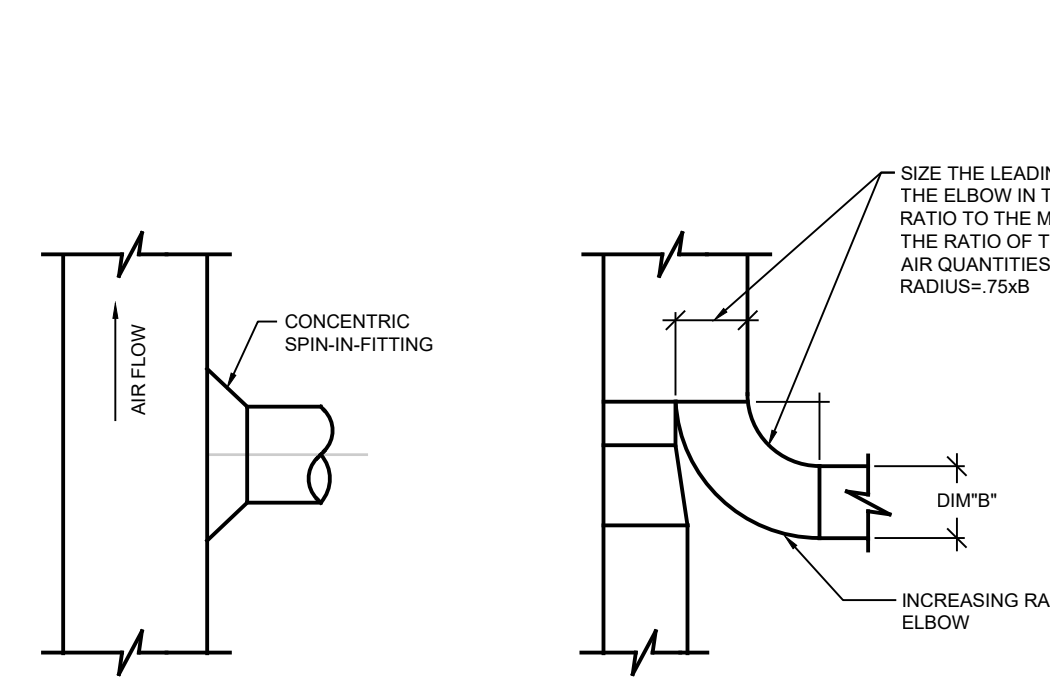


ROOF TOP UNIT GAS PIPING ABOVE ROOF
NO SCALE

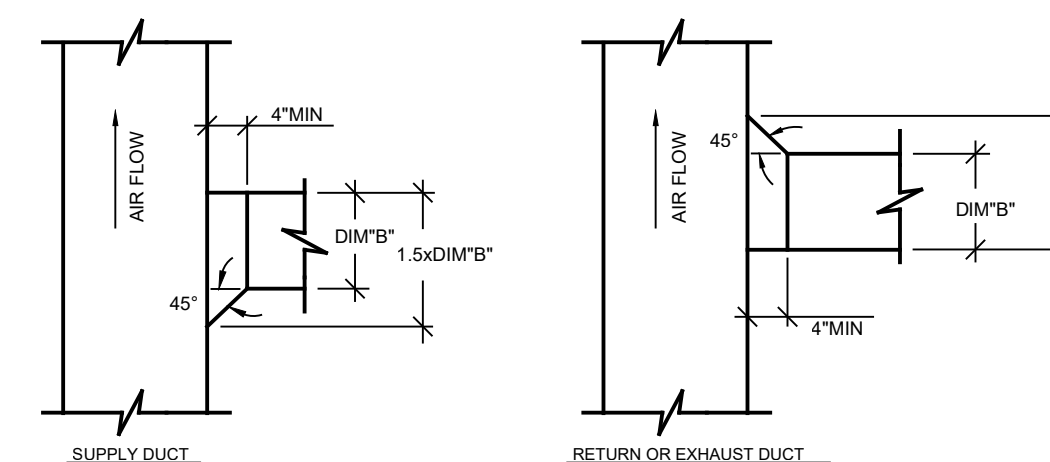
- NOTE: DIRT LEG SHALL BE INSTALLED AT ALL LOCATIONS IN NEW GAS PIPING WHERE ELEVATION CHANGES.



FIRE DAMPER DETAIL
NO SCALE



RECTANGULAR DUCT BRANCH TAKE-OFF DETAILS
NO SCALE

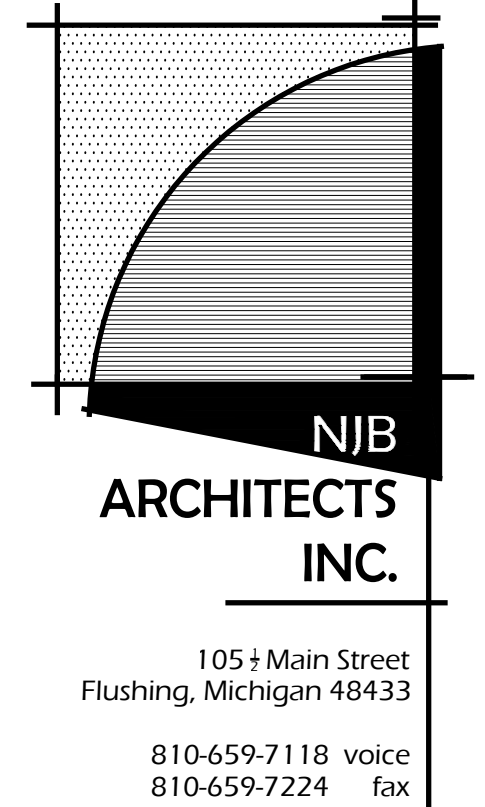


RECTANGULAR DUCT BRANCH TAKE-OFF DETAILS
NO SCALE

MACMILLAN ASSOCIATES CONSULTING ENGINEERS 710 EAST WILSON AVENUE, SUITE 100 ANN ARBOR, MI 48106 PHONE: 734-769-7700 FAX: 734-769-7701 WWW.MACMILLANASSOCIATES.COM	REVIEWED BY	DATE	DATE	DATE	DATE
Seal	DATE	DATE	DATE	DATE	DATE
1	05/26/23	05/26/23	05/26/23	05/26/23	05/26/23

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
171 N STATE ST
CARO, MI

MECHANICAL DETAILS



www.njbarchitects.com

M4.1

ROOFTOP UNIT SCHEDULE

RTU-1: TRANE CONVERTIBLE #4CC030A1070A GAS/ELECTRIC 2.5 TON HORIZONTAL ROOFTOP UNIT. 900 CFM AT .50" EXTERNAL STATIC PRESSURE, 1/4 H.P., 1050 FRPM CONSTANT TORQUE ECM MOTOR, 208V-3PH, 22.6 MCA, 35 AMP MAXIMUM CIRCUIT BREAKER.

COOLING PERFORMANCE: 28,200 BTUH GROSS COOLING CAPACITY. 8067F EDB/EWB, 1 SCROLL COMPRESSOR, 12.0 EER/14.0 SEER R410A REFRIGERANT.

HEATING PERFORMANCE: 70,000 BTUH NATURAL GAS INPUT, 30/60 MIN/MAX DEGREE. TEMPERATURE RISE 81% AFUE.

RTU-2: TRANE PRECEDENT#YSC060S3R2 GAS/ELECTRIC 5 TON DOWNFLOW (HORIZONTAL) ROOFTOP UNIT. 2000 CFM AT .50" EXTERNAL STATIC PRESSURE, 1.5 H.P., 208V-3PH, 29 MCA, 40 AMP MAXIMUM CIRCUIT BREAKER.

COOLING PERFORMANCE: 60,000 BTUH GROSS COOLING CAPACITY, 58,000 BTUH ARI NET COOLING CAPACITY, 8067F EDB/EWB, 1 SCROLL COMPRESSOR. 12.0 EER/14.0 SEER, R410A REFRIGERANT.

HEATING PERFORMANCE: 150,000 BTUH NATURAL GAS INPUT, 105,000 BTUH OUTPUT. 81% AFUE.

RTU-3: TRANE PRECEDENT#YSC120H3R2 GAS/ELECTRIC 10 TON HORIZONTAL ROOFTOP UNIT. 4,000 CFM AT .50" EXTERNAL STATIC PRESSURE, 3.45 H.P., DIRECT/VARIABLE DRIVE 208V-3PH, 49 MCA, 60 AMP MAXIMUM CIRCUIT BREAKER.

COOLING PERFORMANCE: 116,000 BTUH GROSS COOLING CAPACITY, 113,000 BTUH ARI NET COOLING CAPACITY. 8067F EDB/EWB, 2 SCROLL COMPRESSORS. 12.9/EER/14.0 SEER, R410A REFRIGERANT.

HEATING PERFORMANCE: 188,000 BTUH NATURAL GAS INPUT, 131,600 BTUH OUTPUT. 80% AFUE.

RTU NOTES:

- 1. THE MECHANICAL TRADE SHALL VERIFY UNIT CONFIGURATION (HORIZONTAL OR DOWNFLOW) WITH SCHEDULE LISTED ABOVE AND PROJECT DESIGN DRAWINGS.
2. UNITS SHALL HAVE REFRIGERANT BY GAS/ELECTRIC WITH POWER RELIEF EXHAUST FAN AND LOW AMBIENT CONTROL FOR OPERATION IN 0 DEGREES F AMBIENT CONDITION.
3. FURNISH PREFABRICATED ROOF CURB FOR EACH UNIT, WITH HEIGHT OF CURB TO GIVE MINIMUM 12" CLEAR FROM FINISHED ROOF TO CURB GAP. THE MECHANICAL TRADE SHALL FURNISH AND SET IN PLACE/LEVEL THE ROOF CURB. THE GENERAL TRADE SHALL PERFORM ALL ROOFING, FLASHING ETC.
4. MECHANICAL TRADES SHALL FILL ALL OPEN VOIDS IN CURBS (BETWEEN DECK AND BOTTOM OF RTU) WITH SPRAY FOAM INSULATION FOR ACUSTIC PURPOSES.
5. ALL UNITS SHALL HAVE 4" THICK HIGH EFFICIENCY THRU AWAY FILTERS.
6. OUTSIDE AIR INTAKE DAMPERS SHALL BE ULTRA LOW-LEAK TYPE WITH BLADE AND JAMB SEALS.
7. MOTORS SHALL BE PREMIUM EFFICIENCY TYPE.
8. EACH RTU TO HAVE:
A. SERVICE VALVES ON LIQUID, SUCTION AND DISCHARGE LINES.
B. THRU-THE-BASE ELECTRICAL PROVISION.
C. NON-FUSED DISCONNECT SWITCH WITH EXTERNAL HANDLE.
D. TRANE COMMUNICATION INTERFACE WITH SUPPLY AIR SENSING AND CLOGGED FILTER SWITCH.
E. VENTILATION OVERRIDE.
F. HINGED SERVICE ACCESS.
G. CONDENSER COIL GUARDS.
H. SLOPED STAINLESS STEEL DRAIN PANS.
9. ALL UNITS OVER 2000 CFM SHALL HAVE DRY CONTACTS FOR DUCT SMOKE DETECTOR CIRCUIT FACTORY WIRED TO STOP UNIT UPON DETECTION OF SMOKE. TWO DUCT SMOKE DETECTORS FOR EACH RTU AND REMOTE WIRING FURNISHED BY ELECTRICAL TRADES. SENSING TUBES FOR DUCT SMOKE DETECTORS SHALL BE INSTALLED BY MECHANICAL TRADES. THE DUCT SMOKE DETECTORS SHALL BE POWERED FROM AN INDEPENDENT CIRCUIT AND NOT THROUGH THE RTU POWER CIRCUIT.
10. (WITH NO FIRE ALARM) ALL UNITS SHALL HAVE DRY CONTACTS FOR DUCT SMOKE DETECTOR CIRCUIT FACTORY WIRED TO STOP UNIT UPON DETECTION OF SMOKE. TWO DUCT SMOKE DETECTORS FOR EACH RTU AND REMOTE WIRING FURNISHED BY MECHANICAL TRADES. MECHANICAL TRADES SHALL BE RESPONSIBLE FOR POWER AND CONTROL WIRING TO DUCT SMOKE DETECTORS AND SHALL POWER THE DUCT SMOKE DETECTORS THROUGH AN INDEPENDENT CIRCUIT AND NOT THROUGH THE RTU POWER CIRCUIT. SENSING TUBES FOR DUCT SMOKE DETECTORS SHALL BE INSTALLED BY MECHANICAL TRADES.
11. THE MECHANICAL TRADES SHALL BE RESPONSIBLE FOR COMPLETING ALL LOW-VOLTAGE WIRING, CONDUIT, AND ASSOCIATED POWER SUPPLY NECESSARY FOR A COMPLETE AND OPERATIONAL TEMPERATURE CONTROL SYSTEM. REFER TO THE ELECTRICAL DRAWINGS FOR AVAILABLE 120 VOLT POWER LOCATIONS. THE ELECTRICAL TRADE SHALL BE RESPONSIBLE FOR PROVIDING THE MAIN POWER FEED FOR ALL MECHANICAL EQUIPMENT. REFER TO THE ELECTRICAL DRAWINGS FOR CLARIFICATION OF ELECTRICAL TRADES FURNISHED POWER.
12. FURNISH 5 YEAR COMPRESSOR WARRANTY FOR ROOFTOP UNITS.
13. FURNISH ONE YEAR OF COMPLETE SERVICE AND MAINTENANCE OF ROOFTOP UNITS. INCLUDE CHECK TEST AND START-UP OF ROOFTOP UNITS AND CONTROL SYSTEM. PROVIDE FACTORY AND FIELD WIRING DIAGRAMS, AND PROVIDE TECHNICAL ASSISTANCE AS REQUIRED TO ASSURE FIRST CLASS OPERATING SYSTEMS.

DIFFUSER AND GRILLE SCHEDULE

TYPE A: SUPPLY AIR DIFFUSER (4-WAY THROU). PRICE #SMD4-4 OR EQUAL, CARNES OR T&B SQUARE CEILING SUPPLY DIFFUSER, ALL STEEL CONSTRUCTION, ADJUSTABLE HORIZONTAL TO VERTICAL AIRFLOW PATTERN, (OPPOSED BLADE DAMPER), BAKED-ON ENAMEL FINISH WITH COLOR SELECTED BY ARCHITECT. FRAME AS REQUIRED FOR CEILING TYPE WITH DIFFUSER PANEL TO MATCH GRID SIZE WHERE INSTALLED IN A LAY IN CEILING. MAXIMUM NECK VELOCITY SHALL BE 700 FPM AND MAXIMUM NC LEVEL SHALL BE 25.

Table with 4 columns: CFM, NECK SIZE, CFM, NECK SIZE. Rows include 0-125, 126-250, 251-350, 351-450 for various neck sizes like 6"x6", 9"x9", 12"x12", 15"x15", 18"x18", 21"x21".

TYPE B: CEILING RETURN AIR OR EXHAUST AIR GRILLE. PRICE SMD-4 OR EQUAL, CARNES OR T&B SQUARE CEILING SUPPLY DIFFUSER USED AS A RETURN OR EXHAUST GRILLE, ALL STEEL CONSTRUCTION, (OPPOSED BLADE DAMPER), BAKED-ON ENAMEL FINISH WITH COLOR SELECTED BY ARCHITECT. FRAME AS REQUIRED FOR CEILING TYPE, WITH DIFFUSER PANEL TO MATCH GRID SIZE WHERE INSTALLED IN A LAY IN CEILING. MAXIMUM NECK VELOCITY SHALL BE 700 FPM AND MAXIMUM NC LEVEL SHALL BE 25.

Table with 4 columns: CFM, NECK SIZE, CFM, NECK SIZE. Rows include 0-125, 126-250, 251-350, 351-450 for various neck sizes like 6"x6", 9"x9", 12"x12", 15"x15", 18"x18", 21"x21".

TYPE D: WALL RETURN OR EXHAUST GRILLE. PRICE 53DL (530DS) OR EQUAL, CARNES OR T&B WALL RETURN OR EXHAUST GRILLE, ALL STEEL CONSTRUCTION, BAKED-ON ENAMEL FINISH WITH COLOR BY ARCHITECT. ONE SET OF HORIZONTAL BLADES SET AT 35 DEGREES. IF GRILLE SIZE REQUIRES 2 OR MORE SECTIONS, DECREASE WIDTH OF TRIM AT JOINT AS MUCH AS POSSIBLE. (48" MAXIMUM DIMENSION FOR SINGLE SECTION)

EXHAUST FAN SCHEDULE

EF-1: GREENHECK #G-098-1/8 CENTRIFUGAL DIRECT DRIVE ROOF MOUNTED EXHAUST FAN, 574 CFM AT .50" SP, 8.9 SONES, 1400 RPM RPM, 12 HP, 115 VOLT MOTOR WITH MINIMUM 18" HIGH INSULATED PREFABRICATED ROOF CURB WITH CANT TO MATCH ROOF INSULATION, GALVANIZED BIRDSCREEN, GRAVITY BACKDRIFT DAMPER, FACTORY MOUNTED NEMA 1 DISCONNECT SWITCH MOUNTED AND WIRED, INTERNAL CONDUIT CHASE. FAN TO BE UL-.705 LISTED. 525 CFM TOTAL SHALL BE BALANCED TO EXHAUST GRILLES OR INLETS.

EF-2: GREENHECK #SP-AP0511WL CEILING EXHAUST FAN, 80 CFM AT .25" SP, 1.2 SONES, 878 FAN RPM, 25 AMPS, 16.7 WATTS, 115 VOLT, WITH INTEGRAL BACKDRIFT DAMPER, INLET GRILLE, SPEED CONTROLLER FOR MOUNTING ON FAN HOUSING TO ALLOW AIR BALANCING OF EXHAUST FAN, AND MODEL WC ROUND CONNECTION ALUMINUM WALL CAP WITH BUILT-IN DAMPER. FAN SHALL HAVE ISOLATION KIT AND DISCHARGE ACCESS. FAN TO BE UL-.705 LISTED. 75 CFM TOTAL SHALL BE BALANCED TO EXHAUST GRILLES OR INLETS.

- NOTES:
1. EXHAUST FANS SHALL BE RATED FOR CONTINUOUS OPERATION.
2. ALL EXHAUST FANS 120 VOLT SHALL BE FURNISHED WITH A FACTORY MOUNTED DISCONNECT SWITCH BY THE MECHANICAL TRADES. THE TEMPERATURE CONTROL CONTRACTOR SHALL TIE INTO THE POWER RELAY FOR CONTROL OF THE EXHAUST FANS.
3. ALL EXHAUST FANS SHALL HAVE THE ELECTRICAL TRADE FURNISH AND INSTALL A COMBINATION STARTER DISCONNECT, THE TEMPERATURE CONTROL CONTRACTOR SHALL TIE IN TO THE COMBINATION STARTER FOR CONTROL OF THE EXHAUST FAN.
4. FURNISH AN INSULATED ROOF CURB FOR EACH EXHAUST FAN TO GIVE MINIMUM 12" CLEAR FROM FINISHED ROOF MEMBRANE TO LOWEST EDGE OF ROOF CURB TOP. THE MECHANICAL TRADE SHALL FURNISH, SET IN PLACE, LEVEL AND FASTEN ROOF CURB TO ROOF DECK AND SUPPORT STEEL. THE GENERAL TRADE SHALL MAKE ALL FINAL ROOFING AND FLASHING INSTALLATION.

WATER HEATER SCHEDULE

WH-1: LOCHINVAR #FRN40ES DIRECT VENT NATURAL GAS WATER HEATER, 38 GALLON CAPACITY, 40,000 BTUH NATURAL GAS INPUT, 45 GALLON PER HOUR RECOVERY AT 90 DEGREES F RISE, 110V-160HZ., 2.1 AMPS VENT WITH 3" PVC VENT AND INTAKE UP TO 3" CONCENTRIC VENT KIT.

- NOTES:
1. FURNISH ASME TEMPERATURE AND PRESSURE RELIEF VALVE FOR EACH WATER HEATER, EXTEND DRAIN PIPING TO FLOOR DRAIN OR JANITOR'S SINK.
2. WATER HEATER SHALL BE SET TO 140 DEGREES F HOT WATER TEMPERATURE.
3. FURNISH AND INSTALL CHECK VALVE IN INCOMING COLD WATER LINE AND AN EXPANSION TANK IN COLD WATER LINE BETWEEN HEATER AND CHECK VALVE.
4. FURNISH MANUAL RESET HIGH LIMIT, ALARM BELL, CONTACTS FOR FLAME FAILURE, LOW WATER CUT OFF WITH MANUAL RESET AND CONTACT FOR COMBUSTION DAMPER CONTROL.
5. FURNISH AND INSTALL A 1 1/2" DEEP GALVANIZED STEEL SECONDARY DRAIN PAN WITH DRAIN OUTLET FOR WATER HEATER. EXTEND DRAIN PIPING TO F.D. OR JANITORS CLOSE.

EW-1: EMAX MODEL NO. SPEX 1812, 1.81 LW 120 VOLT ELECTRIC TANKLESS WATER HEATER.

MISCELLANEOUS PLUMBING EQUIPMENT SCHEDULES

EXPANSION TANK FOR DOMESTIC WATER HEATER: BELL & GOSSET PT-12, 4.7 GALLONS, 3.2 GALLON ACCEPTANCE, DIAPHRAGM TANK WITH POLYPROPYLENE LINER, AIR CHARGING VALVE, AND PRECHARGED TO 40 PSI.

RCP-1 DOMESTIC HWR PUMP: BELL & GOSSET NBF-25 ALL BRONZE 3 SPEED CIRCUATOR RATED FOR 2 GPM MODEL TC-1 AUTOMATIC TIMER KIT SET TO OPERATE THE PUMP DURING THE OWNERS SPECIFIED HOURS OF OPERATION. THE MECHANICAL CONTRACTOR SHALL FURNISH AND SET A HONEYWELL LB000C18 STRAP-ON AQUASTAT AND ADJUST TO START PUMP WHEN PIPE TEMPERATURE FALLS BELOW 126 DEGREES AND STOP PUMP WHEN PIPE TEMPERATURE RISES ABOVE 135 DEGREES. ELECTRICAL TRADES WILL PROVIDE STARTER WITH THERMAL OVERLOAD ELEMENTS AND ALL WIRING.

GENERAL MECHANICAL NOTES

- 1. THE MECHANICAL TRADES SHALL FAMILIARIZE THEMSELVES WITH ALL EXISTING AND NEW CONDITIONS, THESE DRAWINGS, ADDENDA & RELATED SPECIFICATIONS. THEY SHALL COMPLETELY SATISFY THEMSELVES AS TO THE CONDITIONS TO WHICH THE WORK IS TO BE PERFORMED BEFORE SUBMITTING THEIR BID. NO ALLOWANCES OR CONSIDERATIONS WILL BE GIVEN AT A LATER DATE FOR ALLEGED MISUNDERSTANDINGS AS TO THE REQUIREMENTS OF THE WORK, MATERIALS TO BE FURNISHED, OR CONDITIONS REQUIRED BY THE NATURE OF THIS PROJECT SITE DUE TO NEGLECT ON THE BIDDERS PART TO MAKE SUCH AN EXAMINATION AND COORDINATION.
2. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW APPROXIMATE LOCATION AND GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT. DRAWINGS SHALL NOT BE SCALED FOR LOCATION OF SYSTEMS, EQUIPMENT, ETC. ALL LOCATIONS OF SYSTEMS AND EQUIPMENT SHALL BE VERIFIED IN FIELD AND COORDINATED WITH ALL OTHER TRADES AND EXISTING FIELD CONDITIONS. SOME SYSTEMS (PIPING, DUCTWORK, ETC.) AND EQUIPMENT LOCATIONS MAY REQUIRE CHANGES IN LOCATION DUE TO FIELD CONDITIONS AND COORDINATION WITH OTHER TRADES. THESE CHANGES SHALL BE MADE WITH NO ADDITIONAL COST TO THE OWNER. FAILURE TO VERIFY AND COORDINATE WILL BE NO REASON FOR ADDITIONAL CORRECTION.
3. THE INSTALLATION OF ALL SYSTEMS, EQUIPMENT, ETC. IS SUBJECT TO CLARIFICATION WITH SUBMITTED SHOP DRAWINGS AND FIELD COORDINATION REQUIREMENTS. EQUIPMENT OUTLINES SHOWN ON DRAWINGS OR DIMENSIONED ON DRAWINGS ARE LIMITING DIMENSIONS. ANY EQUIPMENT THAT REDUCES THE INDICATED CLEARANCES OR EXCEEDS SPECIFIED OR SCHEDULED EQUIPMENT DIMENSIONS SHALL NOT BE USED.
4. THE MECHANICAL CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL EQUIPMENT WITH PIPING, DUCTWORK, ETC. AT THE TIME OF ROUGH-IN. ALL EQUIPMENT TO BE SERVICED/ELE. ABOVE CEILING EQUIPMENT SHALL BE WITHIN 18" OF CEILING WITHOUT ANY OBSTRUCTIONS AND SHALL HAVE ALL SERVICE AND ACCESS SPACES KEPT CLEAR. PERFORM ABOVE CEILING COORDINATION WITH ALL TRADES.
5. THESE DRAWINGS AND THE ASSOCIATED SPECIFICATIONS ARE INTENDED TO PROVIDE COMPLETELY FURNISHED, INSTALLED AND OPERATIONAL MECHANICAL SYSTEM (HEATING, VENTILATING, AIR CONDITIONING, PLUMBING AND PIPING, ETC.) IF THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS HAVE INFORMATION OMITTED THAT WOULD NOT ALLOW A COMPLETELY OPERATIONAL SYSTEM AS IS THE INTENT OF THE ENGINEER, THE BIDDER SHALL NOTIFY THE ENGINEER A MINIMUM ONE WEEK PRIOR TO THE BID DATE TO ALLOW FOR AMEND. ONCE BIDS HAVE BEEN RECEIVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIAL, LABOR, ETC., TO FURNISH AND INSTALL A COMPLETELY OPERATIONAL MECHANICAL SYSTEM AS IS THE INTENT OF THESE DRAWINGS AND ASSOCIATED SPECIFICATION. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. IF ANY DISCREPANCIES ARE ON DRAWINGS, AS COMPARED TO MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND INSTALL EQUIPMENT AS REQUIRED AT NO ADDITIONAL COST TO THE PROJECT.
6. THE MECHANICAL TRADES SHALL TAKE OUT ALL PERMITS AND ARRANGE FOR NECESSARY INSPECTIONS AND SHALL PAY ALL FEES AND COSTS.
7. THE MECHANICAL TRADES SHALL VERIFY AMOUNT OF EXISTING PIPING, VALVES, DUCTWORK, ETC. TO BE REMOVED OR RELOCATED TO ALLOW FOR INSTALLATION OF NEW PIPING, DUCTWORK, VALVES, EQUIPMENT, WALLS, ETC. ALL ABANDONED PIPING, VALVES, ETC. SHALL BE REMOVED.
8. THE MECHANICAL TRADES SHALL COORDINATE ALL WORK WITH OTHER TRADES AND SHALL COORDINATE ANY SYSTEMS SHUT-DOWN WITH THE ARCHITECT/ENGINEER AND OWNER.
9. ALL EXISTING EQUIPMENT, PIPING, DUCTWORK, ETC. THAT IS TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER, THE CONTRACTOR SHALL REMOVE AND LOCATE THIS MATERIAL THAT REMAINS THE PROPERTY OF THE OWNER TO A LOCATION DETERMINED BY THE OWNER SOMEWHERE ON SITE. IF THE OWNER DOES NOT WANT TO MAINTAIN POSSESSION OF THE REMOVED MATERIAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING MATERIAL FROM THE SITE AND DISPOSING OF THIS MATERIAL AS NECESSARY TO MEET ALL CODES AND REQUIREMENTS AND SHALL PAY ALL COSTS AS REQUIRED FOR ANY DISPOSAL FEES, INSPECTIONS, PERMITS, ETC.
10. ATTACHMENTS OF MECHANICAL OR ELECTRICAL EQUIPMENT TO STRUCTURAL MEMBERS ARE THE RESPONSIBILITY OF THE INSTALLING TRADE. STRUCTURAL MEMBERS SHALL NOT BE FIELD CUT, WELDED OR OTHERWISE MODIFIED WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER. ATTACHMENT TO STEEL JOISTS SHALL BE MADE AT PANEL POINTS WHEREVER POSSIBLE. STEEL JOISTS SHALL BE REINFORCED FOR NON-PANEL POINT CONCENTRATED LOADS IN ACCORDANCE WITH THE STRUCTURAL DETAILS. THIS WORK SHALL BE PERFORMED BY CERTIFIED WELDERS AND IS THE RESPONSIBILITY OF THE TRADE INSTALLING THE SUBJECT LOAD. STRUCTURAL MEMBERS SHALL NOT BE OVERLOADED AS A RESULT OF ATTACHMENTS. ATTACHMENT EQUIPMENT LOADING FOR ALL TRADES RESULTING IN TOTAL LOAD GREATER THAN AN EQUIVALENT UNIFORM 5 PSF FOR ANY MEMBER SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW.
11. THE MECHANICAL TRADES SHALL FURNISH AND LOCATE CEILING AND/OR WALL ACCESS DOORS AS REQUIRED TO GIVE ACCESS TO VALVES, EQUIPMENT, ETC. COORDINATE WALL OR CEILING FIRE RATINGS AND FURNISH ACCESS DOOR WITH RATING AS NECESSARY. THE GENERAL TRADES SHALL INSTALL ACCESS DOORS.
12. FURNISH PREFABRICATED ROOF CURBS FOR EACH EXHAUST FAN, WITH HEIGHT OF CURB TO GIVE MINIMUM 12" CLEAR FROM FINISHED ROOF TO EXHAUST FAN CURB GAP. THE MECHANICAL TRADE SHALL FURNISH THE ROOF CURB TO THE GENERAL TRADE. THE GENERAL TRADE SHALL LEVEL CURB, PERFORM ALL ROOFING AND FLASHING ETC.
13. SEE SPECIFICATION FOR FURTHER INFORMATION.

SPECIFIED AND SCHEDULED EQUIPMENT NOTE

EQUIPMENT MANUFACTURERS AND MATERIALS SPECIFIED OR SCHEDULED ON THESE PROJECT DRAWINGS AND SPECIFICATIONS SHALL BE INCLUDED UNDER THE BASE BID PRICE. SUBSTITUTE OR ALTERNATE EQUIPMENT SHALL BE PRICED AS AN ADD OR DEDUCT PRICE TO THE CONTRACTOR'S BASE BID PRICE. IF ONE OR MORE SUBSTITUTIONS ARE ACCEPTED WITH THE PROPOSAL AT THE CORRESPONDING ALTERNATE PRICE, IT SHALL BE UNDERSTOOD THAT APPROVAL OF SAID EQUIPMENT SHALL BE SUBJECT TO STRICT ADHERENCE TO THE PLANS AND SPECIFICATIONS SHOULD ANY OF THE SUBSTITUTE EQUIPMENT FAIL TO MEET THE SPECIFICATIONS AFTER THE PROPOSAL HAS BEEN ACCEPTED, REGARDLESS IF EQUIPMENT HAS BEEN SHIPPED TO THE SITE AND INSTALLED. THE CONTRACTOR SHALL FURNISH AT NO EXTRA COST TO THE OWNER, THE REQUIRED EQUIPMENT MEETING THE REQUIREMENTS AS STATED IN THESE SPECIFICATIONS AND COVER ALL COSTS NECESSARY FOR REMOVAL AND REINSTALLATION OF EQUIPMENT.

FIRE PROTECTION NOTES

- 1. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING THE SERVICES OF A LICENSED FIRE PROTECTION CONTRACTOR TO DESIGN, DETAIL AND INSTALL A FIRE PROTECTION SPRINKLER SYSTEM TO COVER THE NEW AND/OR REMODELED AREAS.
2. THE ENTIRE FIRE PROTECTION SYSTEM DESIGN AND INSTALLATION SHALL BE STRICTLY IN ACCORDANCE WITH NFPA 13 SPRINKLER SYSTEMS AND SHALL MEET THE REQUIREMENTS OF THE LOCAL AND STATE FIRE MARSHAL AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
3. ALL PERMITS, LICENSES, FEES, INSPECTIONS AND ARRANGEMENT/COORDINATION OF SUCH SHALL BE OBTAINED AND PAID FOR BY THE FIRE PROTECTION CONTRACTOR.
4. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE A FLOW TEST AND FURNISH COMPLETE DETAILED COMPUTER AIDED DESIGN (CAD) WORKING DRAWINGS OF THE SYSTEM AND SHALL SUBMIT THEM TO THE FIRE MARSHAL, ARCHITECT/ENGINEER, AND ALL AGENCIES REQUIRED BY CODE FOR THEIR REVIEW AND APPROVAL. NO WORK OR FABRICATION SHALL COMMENCE BEFORE THE DETAILED WORKING DRAWINGS OF THE SYSTEM, WITH THE AGENCIES APPROVALS, ARE SUBMITTED TO AND ARE REVIEWED BY THE ARCHITECT/ENGINEER. SYSTEM SHALL BE COMPLETE WITH OUTSIDE ALARM BELL, FLOW SWITCH, SUPERVISORY SWITCH ON SYSTEM CONTROL VALVE, HYDRAULIC DESIGN PLATE AT MAIN RISER, SPARE HEADS AND WRENCH, DOCUMENTATION, ETC.
5. THE FIRE PROTECTION CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND VERIFY THE LOCATION, ROUTING OF PIPING, LOCATION OF SPRINKLER HEADS WITH RESPECT TO DUCTS, EQUIPMENT, LIGHT FIXTURES, ETC. SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILES AND HALF TILES.
6. LAYOUT AND DESIGN OF THE SYSTEM SHALL BE BASICALLY AS DESIGNED FOR REQUIRED OCCUPANCY HAZARD. SECURITY TYPE HEADS SHALL BE USED IN SECURE AREAS. SYSTEMS SHALL BE SIZED BY HYDRAULIC CALCULATIONS PER NFPA PAMPHLET NO. 13. EXTENDED COVERAGE SPRINKLER HEAD SYSTEM WILL NOT BE ACCEPTED WITHOUT WRITTEN APPROVAL FROM ENGINEER.
7. DRAWINGS SHOW POSSIBLE LOCATION AND SIZE FOR FIRE PROTECTION WATER SERVICE. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE FIRE PROTECTION WATER SERVICE SIZE BY VERIFICATION OF LOCAL WATER PRESSURE AND FLOW FROM THE LOCAL AUTHORITIES. THIS VERIFICATION SHALL BE PERFORMED DURING BIDDING AND NOTIFICATION TO THE ARCHITECT/ENGINEER OF ANY NECESSARY FIRE PROTECTION SERVICE CHANGES SHALL BE MADE 5 DAYS PRIOR TO BID DATE. THE COMPLETED SYSTEM SHALL BE IN ACCORDANCE WITH NFPA-13 REQUIREMENTS.
8. THE CONTRACTOR SHALL INCLUDE IN THEIR BID ANY COST FOR REQUESTING AUTOCAD BACKGROUNDS FOR THEIR USE FROM THE ARCHITECT OR ENGINEER. THE COST WILL BE \$150.00 FOR THE FIRST PLAN, AND \$50.00 FOR EACH ADDITIONAL PLAN THAT MAY BE REQUESTED FOR AUTOCAD USE. A WAIVER OF RESPONSIBILITY FOR THE ARCHITECT AND ENGINEER RELATED TO CONTRACTOR USE OF THE CAD FILES SHALL BE SIGNED BY THE CONTRACTOR.
9. SEE SPECIFICATION FOR FURTHER INFORMATION AND REQUIREMENTS.

PLUMBING FIXTURE SCHEDULE

WC-1: FLOOR MOUNTED SENSOR OPERATED FLUSH VALVE WATER CLOSET (BARRIER FREE); AMERICAN STANDARD #343.001 MADERA FLOW/SEA D.A. EL. 1.8, 16 1/2" HIGH WATER SAVER TOILET WITH SIPHON-JET ACTION ELONGATED BOWL, WHITE VITREOUS CHINA, 1 1/2" TOP SPUD, 1.6 GALLONS PER FLUSH. FITTINGS SHALL INCLUDE ZURN ZER-800A0V-CFM-W/S1 FLUSH VALVE WITH BATTERY OPERATED SENSOR WITH OVERRIDE BUTTIN AND VACUUM BREAKER, CENTOOC 1500 CC WHITE OPEN FRONT SEAT, LESS COVER, TO GIVE 17" HIGH TOP OF SEAT ABOVE FINISHED FLOOR FOR BARRIER FREE USE, BOLT CAPS, ETC. INSTALLATION SHALL MEET A.D.A. REQUIREMENTS. CONTROL FOR FLUSH VALVE SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREA.

L-1: WALL HUNG LAVATORY; AMERICAN STANDARD #0356.421 LUCERNE, NOMINAL 20"x18" WHITE VITREOUS CHINA, FRONT OVERFLOW, FAUCET LEDGE, "D" SHAPED BOWL, SELF DRAINING DECK, ONE CENTER HOLE PUNCHING CONSTRUCTED FOR CONCEALED ARM CARRIER AND ADA COMPLIANT. FITTINGS SHALL INCLUDE ZURN Z-8913 BATTERY OPERATED SENSOR FAUCET WITH RIGID SPOUT, 0.5 GPM FLOW DEVICE, SOLENOID VALVE, GRID DRAIN, P-TRAP, WHEEL HANDLE STOPS AND TAILPIECE, ALL POLISHED CHROME FINISH, UNDERSINK PROTECTIVE PIPE COVERS, ZURN CONCEALED ARII GRABBAR WITH FLOOR SUPPORT, ETC. INSTALL THERMOSTATIC MIXING VALVE THAT IS ASSE 1070 LISTED UNDER EACH LAVATORY. PIPE SOLENOID VALVE FOR SENSOR FAUCET, AND ADJUST TO 105 DEGREE HOT WATER MAXIMUM AT FAUCET. NOTE: MECHANICAL TRADES SHALL INSTALL SOLENOID VALVE.

SK-1: SINGLE COMPARTMENT COUNTERTOP SINK; ELKAY LUSTERTONE # LR-AD1716, 14" X 10" X 6 1/2" DEEP INSIDE BOWL, SEAMLESS DRAW #10 GAUGE TYPE 304 (18-8) NICKEL BEARING STAINLESS STEEL, 1 3/4" RADIUS COVED CORNERS, SELF RIM, SATIN FINISH, UNDERSIDE SHALL BE FULLY UNDERCOATED, THREE FAUCET HOLES. FITTINGS SHALL INCLUDE ELKAY LK-1000 WASHERLESS, SINGLE METAL HANDLE LEVER KITCHEN DECK FAUCET, SWING SPOUT, 0.5 GPM FLOW DEVICE, POLISHED CHROME FINISH WITH SWIVEL AERATOR. ALSO INCLUDE LK-35 STAINLESS STEEL CONICAL STRAINER BASKET WITH NEOPRENE STOPPER, TAILPIECE, P-TRAP, WHEEL HANDLE STOPS, ETC. FURNISH AND INSTALL THERMOSTATIC MIXING VALVE THAT IS ASSE 1070 LISTED UNDER EACH LAVATORY. PIPE TO HOT WATER SIDE OF FAUCET AND ADJUST TO 105 DEGREE HOT WATER MAXIMUM AT FAUCET.

SK-2: DOUBLE COMPARTMENT COUNTERTOP SINK; ELKAY LUSTERTONE #LR-AD3322, EACH COMPARTMENT 13 1/2" X 16" X 1 1/2" DEEP INSIDE BOWL, SEAMLESS DRAW #10 GAUGE TYPE 304 (18-8) NICKEL BEARING STAINLESS STEEL, SELF RIM, SATIN FINISH, UNDERSIDE SHALL BE FULLY UNDERCOATED, THREE FAUCET HOLES. FITTINGS SHALL INCLUDE ELKAY LK-1000 WASHERLESS, SINGLE METAL HANDLE LEVER KITCHEN DECK FAUCET, SWING SPOUT, 0.5 GPM FLOW DEVICE, POLISHED CHROME FINISH WITH SWIVEL AERATOR. ALSO INCLUDE LK-35 STAINLESS STEEL CONICAL STRAINER BASKET WITH NEOPRENE STOPPER, TAILPIECE, P-TRAP, WHEEL HANDLE STOPS, ETC. INSTALL THERMOSTATIC MIXING VALVE THAT IS ASSE 1070 LISTED UNDER EACH SINK, PIPE TO HOT WATER SIDE OF FAUCET, AND ADJUST TO 105 DEGREE HOT WATER MAXIMUM AT FAUCET.

JS-1: JANITOR'S SINK; FLORESTONE #96 24242 OR EQUAL, TERRAZZO, 24"x24"x12" WITH DROPPED FRONT, STAINLESS STEEL THRESHOLD, TILING FLANGES AND STAINLESS STEEL SPLASH CATCHER PANELS. DRAIN BODY SHALL BE 3" STAINLESS STEEL CAST INTEGRAL WITH REMOVABLE FLAT TYPE 16 GAUGE #002 STAINLESS STEEL STRAINER, RECEPTOR SHALL BE COMPOSED OF MARBLE CHIPS AND WHITE PORTLAND CEMENT GROUND SMOOTH, GROUTED AND SEALED TO RESIST STAINS. FITTINGS SHALL BE MOP SERVICE SINK FAUCET WITH HOSE END OUTLET, INTEGRAL STOPS, VACUUM BREAKER, ADJUSTABLE TOP BRACE, TAILHOOK AND ROUGH CHROME FINISH, PROVIDE MOP HANGER, HOSE AND HOSE BRACKET, AND SILICONE SEALANT, REINFORCE WALL FOR FAUCET AS REQUIRED.

EW-1: MANUFACTURER ELKAY MODEL #LZ3TL8WS5P, FILTERED REFRIGERATED LIGHT GRAY. PROVIDE ZURN Z OR EQUAL WALL HANGER WITH FLOOR SUPPORT. H-L0 ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION, WALL MOUNTED BARRIER FREE, B-L0 LEVEL, HIGH EFFICIENCY VANDAL RESISTANT COOLER, FILTERED 8 PH STAINLESS, CHILLING CAPACITY OF 0.8 GPH. FEATURES SHALL INCLUDE HANDS FREE, VISUAL FILTER MONITOR, FILTERED HIGH EFFICIENCY LAMINAR FLOW, ANTIMICROBIAL, REAL DRAIN, VANDAL RESISTANT, FURNISHED WITH VANDAL RESISTANT BUBBLER, ELECTRONIC BOTTLE FILLER SENSOR WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION, CORD WITH 3 PRONG PLUG, 115 VOLT, 260 WATTS, 5.5 AMP. UNIT SHALL BE MOUNTED AT HEIGHT TO MEET BARRIER FREE AND ADA REQUIREMENTS. VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.

IB-1: INTERIOR HOSE BIBB; ZURN Z1341 INTERIOR HOSE BIB, VACUUM BREAKER BACKFLOW PROTECTOR, 3/4" MALE HOSE THREAD.

WHYD-1: EXTERIOR WALL HYDRANT; ZURN Z-1321-6, EXTERIOR RECESSED BRONZE WALL HYDRANT, AUTOMATIC DRAINING, VACUUM BREAKER BACKFLOW PROTECTOR, FREEZELESS FROST-PROOF WALL HYDRANT WITH LOOSE KEY AND 3/4" MALE HOSE THREAD.

CO-1: CLEANOUTS; PROVIDE ZURN Z-1400 SERIES DURA-COATED CAST IRON CLEANOUTS WITH BRONZE PLUG AS FOLLOWS: EXTERIOR: ZB-1400 POLISHED BRONZE ROUND TOP FINISHED FLOORS: ZN-1400 NICKEL BRONZE ROUND TOP CERAMIC TILE: ZN-1400-T TOP FINISHED FLOORS: ZN-1400-CM NICKEL BRONZE WITH CARPET MARKER ROUND TOP WALL CLEANOUTS: ZS-1468 STAINLESS STEEL ACCESS AS REQUIRED BY PIPE SIZE HEAVY DUTY CLEANOUTS: (AT LOCATIONS OF VEHICLE/FORKLIFT TRAFFIC) ZN-1400HD

AD-1: AREA DRAIN (LOCATED IN SLAB ON GRADE); ZURN Z-2550-CI FLOOR DRAIN WITH DOME STRAINER.

FD-1: FLOOR DRAIN (LOCATED IN A FINISHED FLOOR); ZURN ZN-415-58 CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR 6" DIAMETER SATIN NICKEL BRONZE STRAINER AND TRAP PRIMER CONNECTION WHERE REQUIRED. FURNISH A DEEP SEAL TRAP FOR EACH FLOOR DRAIN.

FD-2: FLOOR DRAIN (LOCATED IN AN UNFINISHED FLOOR); SAME AS IN FINISHED FLOOR, EXCEPT WITH 7" STRAINER.

FD-3: FLOOR DRAIN (LOCATED IN UNFINISHED FLOOR SUBJECT TO VEHICLE TRAFFIC); ZURN Z-520-CP OR EQUAL WADE CI FLOOR DRAIN WITH FLANGE, INTEGRAL CLAMPING COLLAR, SEEPAGE OPENINGS, TRAP PRIMER TAP, ROUND ADJUSTABLE HEAVY DUTY CI 9" DIAMETER DUCTILE IRON GRATE.

TP-1: TRAP SEALER; EACH FLOOR DRAIN SHALL HAVE A MEANS OF MAINTAINING THE WATER SEAL IN THE TRAP BY MEANS OF TRAP PRIMER OR TRAP SEALER.

TRAP SEAL OPTION: 2692 QUAD CLOSE TRAP SEAL DEVICE BY JAY R. SMITH MFG. CO. FOR FLOOR DRAIN. SIZE OF TRAP SEALER SHALL MATCH INTERNAL PIPE SIZE DIAMETER. FLOW RATES FOR TRAP SEAL ARE AS FOLLOWS: 2" - 4GPM 3" - 24 GPM (LARGER FLOW DUE TO TRAP SEAL BEING LOWER IN DRAIN BODY), 3.5" - 14 GPM (TRAP SEAL INSTALLED IN STRAINER), 4" - 35 GPM.

RD-1: ROOF DRAIN; ZURN ZC-100-EADP DURA-COATED CAST IRON BODY AND DOME, WITH FLASHING, CLAMP/GRAVEL GUARD, TOP-SET DECK PLATE, ADJUSTABLE EXTENSION, AND 18" SQUARE ROOF DRAIN RECEIVER.

PPC-1: UNDER LAVATORY PROTECTIVE PIPE COVERS; ZURN OR EQUAL "INSUL-GARD" TRAP AND STOPRISER INSULATED COVERS SHALL BE FURNISHED AND INSTALLED ON ALL EXPOSED PIPING AND VALVES BELOW LAVATORIES TO MEET ADA REQUIREMENTS. THIS SHALL INCLUDE DRAIN, CW & HW PIPING, VALVES, ETC.

ELECTRIC CABINET HEATER SCHEDULE

ECH-1: OMARK #COF-RE-547 ELECTRIC CABINET HEATER, CEILING RECESSED 300 CFM, 2KW/3KW/4KW ELECTRIC HEAT CAPACITY, 1/8 HP MOTOR, 208V-1-60 HZ. CABINET 23 3/4" ECH-3: 23 3/4" X 4 1/2".

- NOTES:
1. FURNISH RECESS TRIM FRAMES AND/OR BASE MOUNTING KITS AS REQUIRED FOR CEILING MOUNTED CABINET HEATERS.
2. COLOR OF CABINET HEATERS SHALL BE SELECTED BY THE ARCHITECT/ENGINEER DURING SHOP DRAWING SUBMITTALS.
3. EACH UNIT SHALL HAVE A REMOTE MOUNTED THERMOSTAT FOR CEILING MOUNTED UNITS.
4. MOTORS SHALL BE TWO-SPEED, RESISTANT WITH AUTOMATIC OVERLOAD PROTECTION.
5. ALL INTERIOR CONTROLS AND THERMOSTAT SHALL BE 24 VOLT OPERATION FROM UNIT FACTORY MOUNTED 24 VOLT TRANSFORMER.
6. UNITS SHALL ALSO INCLUDE AUTOMATIC FAN DELAY, SILENT RELAYS, FRONT COVER INTERLOCK, INTERLOCK FOR REMOTE FAN ONLY SWITCH, THERMAL SAFETY CUTOFF, CIRCUIT BREAKERS AND AUTO-ON (SUMMER FAN) SWITCH.

VOLUME BOX SCHEDULE WITH ELECTRIC HEAT SCHEDULE

Table with 10 columns: MARK, MODEL NO, CFM, ELECTRIC HEAT KW, COOLING CFM, HTG. CFM, INLET SIZE INCHES DIA. Rows include EVB-04, EVB-05K06, EVB-7.

NOTES:

- 1. SEE SPECIFICATION FOR FURTHER INFORMATION.
2. VOLUME BOXES SHALL HAVE DIRECT DIGITAL CONTROLS.
3. VOLUME BOXES SHALL HAVE DUAL MINIMUMS.
4. ELECTRIC DUCT HEATERS SHALL BE 208V-3-60 HZ.
5. FURNISH 3 STAGES OF ELECTRIC HEATER CONTROL WITH MERCURY CONTACTORS FOR EACH VAV BOX.
6. FURNISH FACTORY MOUNTED MAGNETIC CONTACTORS, DISCONNECTS, FUSE AND CONTROL TRANSFORMER FOR EACH VOLUME BOX.
7. ALL VOLUME BOXES SHALL HAVE FACTORY MOUNTED DAMPER ACTUATOR WIRED TO A TERMINAL STRIP AND FLOW RING. AIR FLOW AT EACH VOLUME BOX SHALL BE DISPLAYED AT THE MAIN CONTROL SYSTEMS COLOR GRAPHICS.
8. DIRECT DIGITAL CONTROLS SHALL BE FURNISHED AND INSTALLED AT THE FACTORY PRIOR TO SHIPPING TO SITE.

DUCTLESS SPLIT SYSTEM AIR CONDITIONER SCHEDULE

- AC-1: TRANE MODEL N2TSPX188 112 AA WALL MOUNTED INDOOR EVAPORATOR UNIT AS SHOWN ON THE DRAWING, NOMINAL 1.5 TON DX COOLING, WITH AUXILIARY ELECTRIC HEAT, CONDENSATE PUMP AND REMOTE THERMOSTAT AND CONTROL. APPROXIMATELY 1 MINIMUM CIRCUIT AMPS AT 208 VOLT, 1 PHASE.
AC-1: MATCHING TRANE MODEL N2TSPX188 112 AA MOUNTED OUTDOOR AIR COOLED CONDENSING UNIT WITH ANTI SHOCK CYCLE PROTECTION, LOW AMBIENT CONTROL AND TUBE SET. APPROXIMATELY 20 AMP FUSE/BREAKER S12 AT 208 VOLT, 1 PHASE.

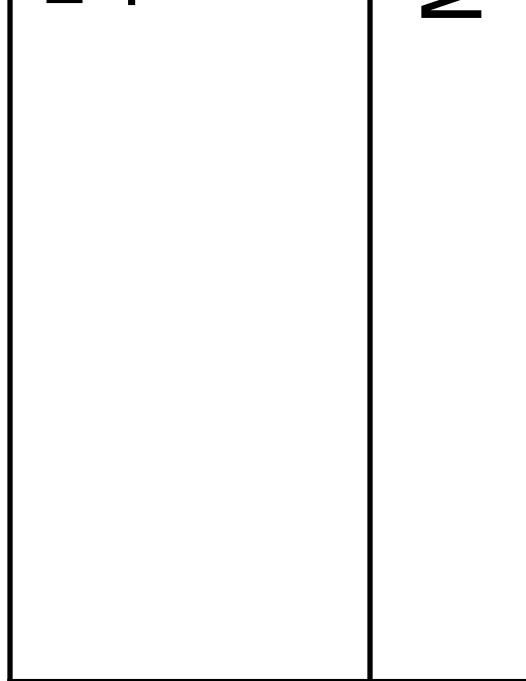


Revision table with columns: REVISION/REVISION NUMBER, DATE, DRAWN BY, CHECKED BY, SCALE AS NOTED, PROJECT NO. 220240, DATE 05/26/23, CAD FILE.

Table with 2 columns: REVISION, DESCRIPTION. Row 1: BID DOCUMENTS.

REVISIONS TO PEOPLE'S STATE BANK FOR TUSCOLA COUNTY OFFICES 171 N STATE ST CARO, MI

MECHANICAL SCHEDULES



1051 Main Street Flushing, Michigan 48433 810-659-7118 voice 810-659-7224 fax

www.njbarchitects.com

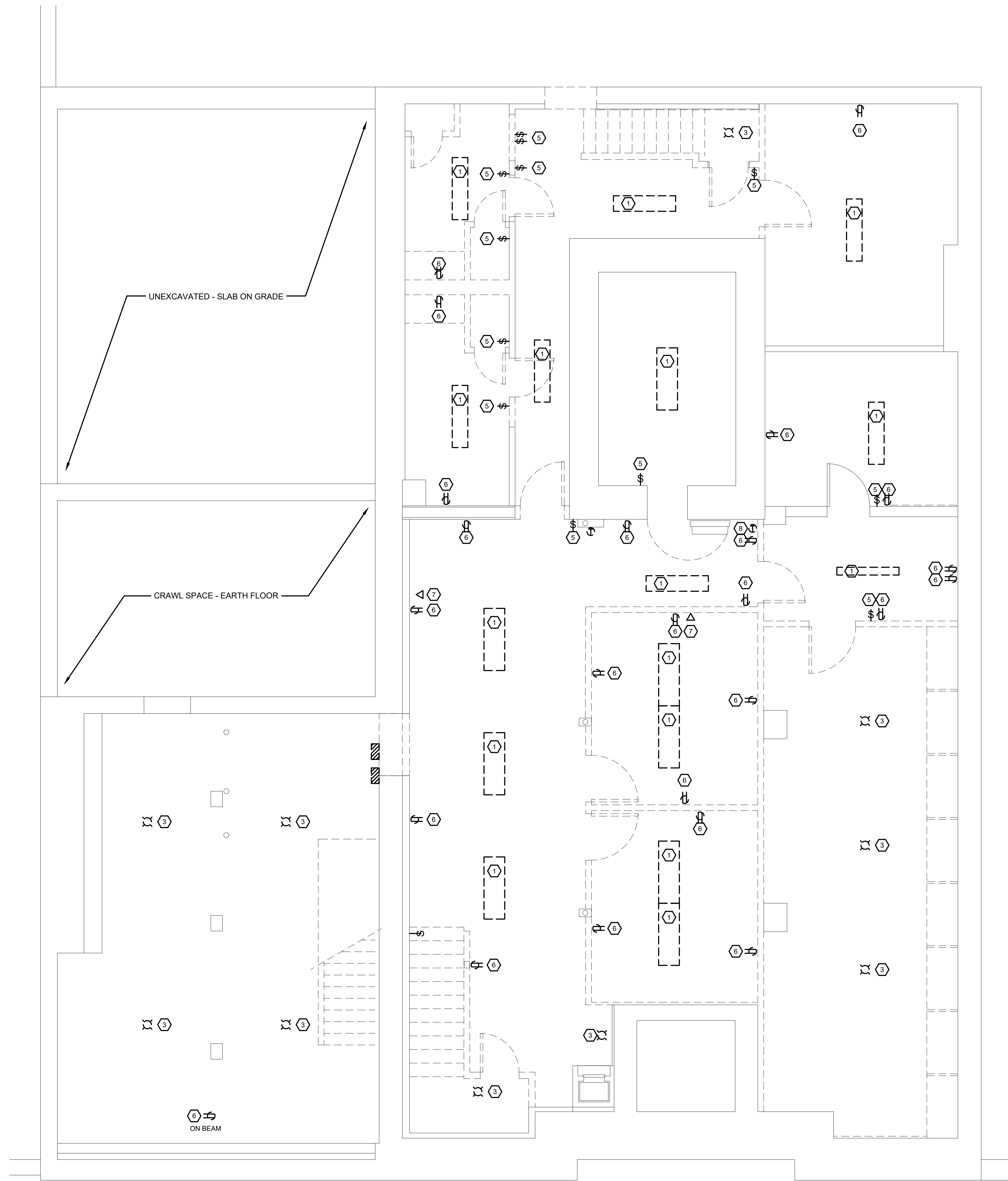
M4.2

KEYED DEMOLITION NOTES

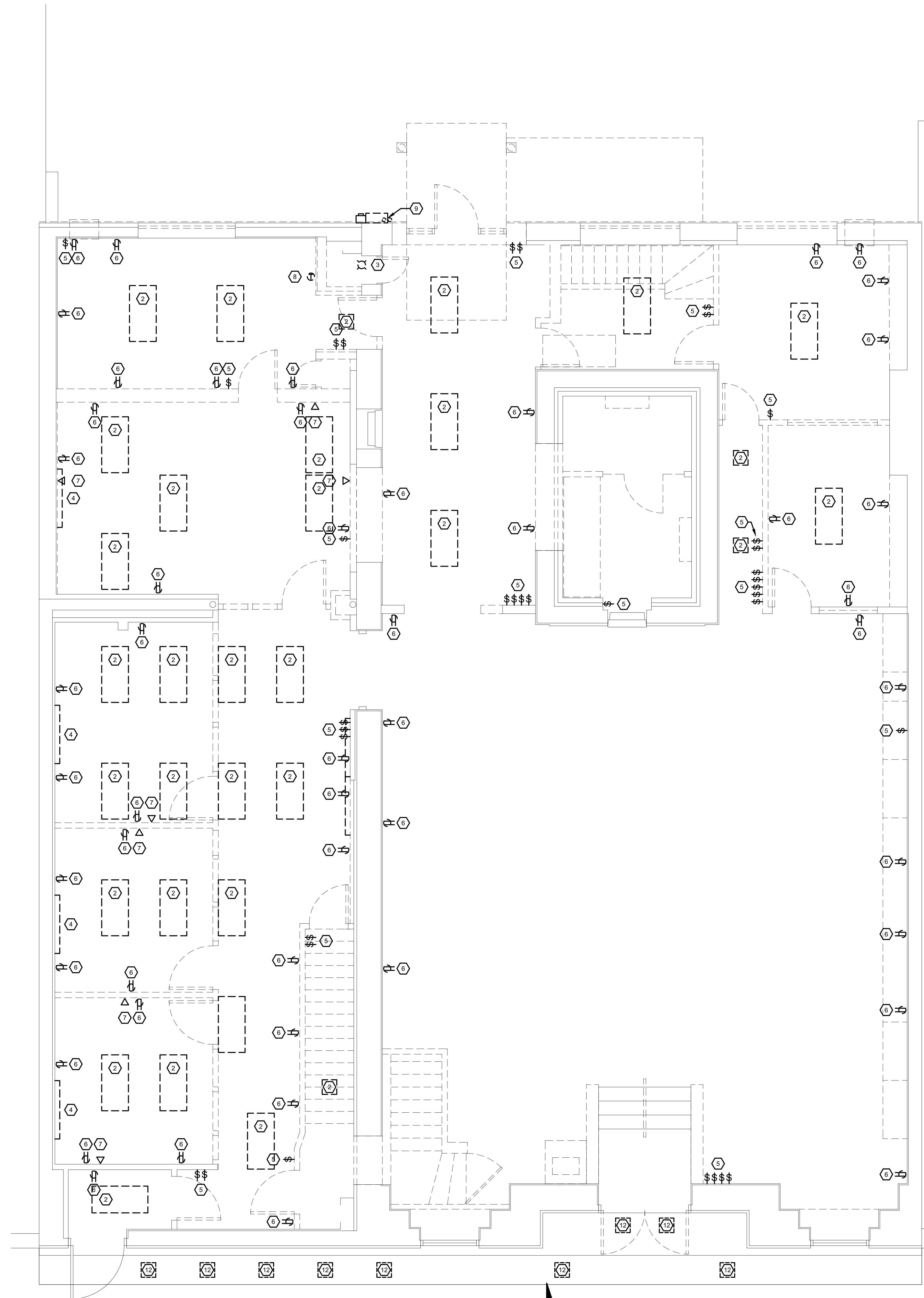
- ① REMOVE SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE AND ALL ASSOCIATED CONDUIT AND WIRING
- ② REMOVE LAY-IN FLUORESCENT LIGHT FIXTURE AND ALL ASSOCIATED CONDUIT AND WIRING
- ③ REMOVE SURFACE MOUNTED INCANDESCENT LIGHT FIXTURE AND ALL ASSOCIATED CONDUIT AND WIRING
- ④ REMOVE ELECTRIC BASEBOARD HEATER AND ALL ASSOCIATED CONDUIT AND WIRING
- ⑤ REMOVE LIGHT SWITCH(S) AND ALL ASSOCIATED CONDUIT AND WIRING
- ⑥ REMOVE DUPLEX RECEPTACLE AND ALL ASSOCIATED CONDUIT AND WIRING
- ⑦ REMOVE DATA AND ALL ASSOCIATED WIRING
- ⑧ REMOVE THERMOSTAT AND ALL ASSOCIATED WIRING
- ⑨ REMOVE CONDUIT MAST AND WIRING FROM AERIAL SERVICE DROP TO CT CABINET
- ⑩ REMOVE PANELBOARD, FEEDER AND ALL BRANCH CIRCUITS. COORDINATE REMOVAL TO MAINTAIN POWER FOR CONSTRUCTION OPERATIONS
- ⑪ REMOVE DISCONNECT SWITCH AND ALL ASSOCIATED CONDUIT AND WIRING FOR EXISTING ROOFTOP UNITS
- ⑫ REMOVE RECESSED LIGHT FIXTURE AND ALL ASSOCIATED WIRING AND INSTALL ALUMINUM COVER PLATE OVER SOFFIT OPENING PER DETAIL 7-A1.4

GENERAL DEMOLITION NOTES

1. DEMOLITION INFORMATION IS PROVIDED TO ASSIST WITH REMOVAL COSTS. ELECTRICAL TRADES SHALL BE RESPONSIBLE TO CONFIRM ALL QUANTITIES AND THE INFORMATION PROVIDED.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH ALL OTHER TRADES. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS TRADE'S FAILURE TO COORDINATE REQUIRED ELECTRICAL DEMOLITION WITH OTHER TRADES.
3. ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING DATA AND COMMUNICATION SYSTEMS WIRING.



LOWER LEVEL FLOOR PLAN
1/4" = 1'-0"



FIRST FLOOR FLOOR PLAN
1/4" = 1'-0"

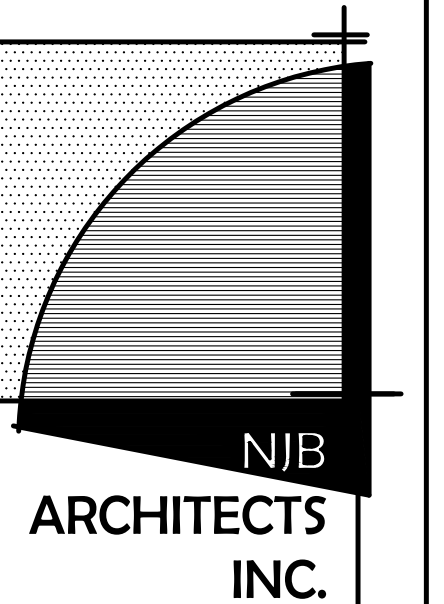
Seal

REVIEWED BY	FLG	SCALE	AS NOTED	DATE	06/26/23
DRAWN BY	LJD	PROJECT NO.	222940	CAD FILE	
DATE	04/27/23				
REVISIONS/ISSUANCE	OWNER'S APPROVAL	BID DOCUMENTS			
REV#	1				

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES

171 N STATE ST
CARO, MI

LOWER LEVEL AND FIRST FLOOR DEMOLITION PLANS



105+ Main Street
Flushing, Michigan 48433
810-659-7118 voice
810-659-7224 fax

www.njib-architects.com

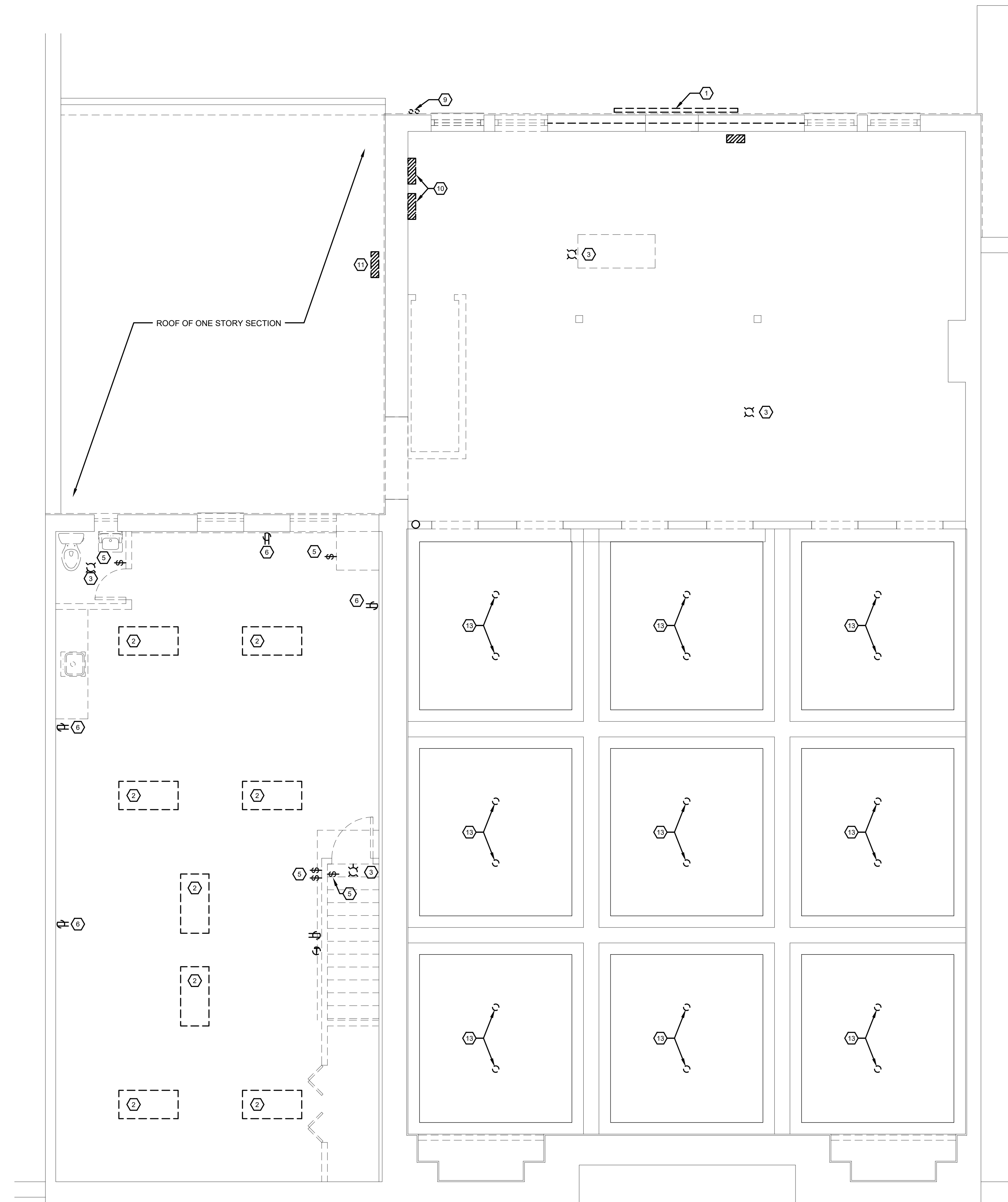
E1.1

KEYED DEMOLITION NOTES

- ① REMOVE SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE AND ALL ASSOCIATED CONDUIT AND WIRING
- ② REMOVE LAY-IN FLUORESCENT LIGHT FIXTURE AND ALL ASSOCIATED CONDUIT AND WIRING
- ③ REMOVE SURFACE MOUNTED INCANDESCENT LIGHT FIXTURE AND ALL ASSOCIATED CONDUIT AND WIRING
- ④ REMOVE ELECTRIC BASEBOARD HEATER AND ALL ASSOCIATED CONDUIT AND WIRING
- ⑤ REMOVE LIGHT SWITCH(S) AND ALL ASSOCIATED CONDUIT AND WIRING
- ⑥ REMOVE DUPLEX RECEPTACLE AND ALL ASSOCIATED CONDUIT AND WIRING
- ⑦ REMOVE DATA AND ALL ASSOCIATED WIRING
- ⑧ REMOVE THERMOSTAT AND ALL ASSOCIATED WIRING
- ⑨ REMOVE CONDUIT MAST AND WIRING FROM AERIAL SERVICE DROP TO CT CABINET
- ⑩ REMOVE PANELBOARD, FEEDER AND ALL BRANCH CIRCUITS. COORDINATE REMOVAL TO MAINTAIN POWER FOR CONSTRUCTION OPERATIONS
- ⑪ REMOVE DISCONNECT SWITCH AND ALL ASSOCIATED CONDUIT AND WIRING FOR EXISTING ROOFTOP UNITS
- ⑫ REMOVE RECESSED LIGHT FIXTURE AND ALL ASSOCIATED WIRING AND INSTALL ALUMINUM COVER PLATE OVER SOFFIT OPENING PER DETAIL 7-A1.4
- ⑬ REMOVE REMAINING SUSPENDED LIGHT FIXTURE BASES AND INSTALL COVER PLATE OVER EXISTING JUNCTION BOX

GENERAL DEMOLITION NOTES

1. DEMOLITION INFORMATION IS PROVIDED TO ASSIST WITH REMOVAL COSTS. ELECTRICAL TRADES SHALL BE RESPONSIBLE TO CONFIRM ALL QUANTITIES AND THE INFORMATION PROVIDED.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH ALL OTHER TRADES. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS TRADES FAILURE TO COORDINATE REQUIRED ELECTRICAL DEMOLITION WITH OTHER TRADES.
3. ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING DATA AND COMMUNICATION SYSTEMS WIRING.



SECOND FLOOR PLAN
1/4" = 1'-0"

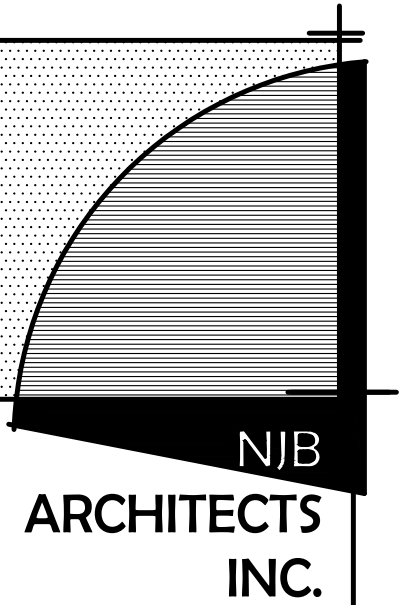
Seal

REVIEWED BY	TJG	SCALE	AS NOTED	DATE	05/26/23
DRAWN BY	LAD	PROJECT NO.	220240	DATE	
DATE	04/27/23	BID DOCUMENTS			
REVISION/SUBMISSION	OWNER'S APPROVAL				
REV #	1				
	2				

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES

171 N STATE ST
CARO, MI

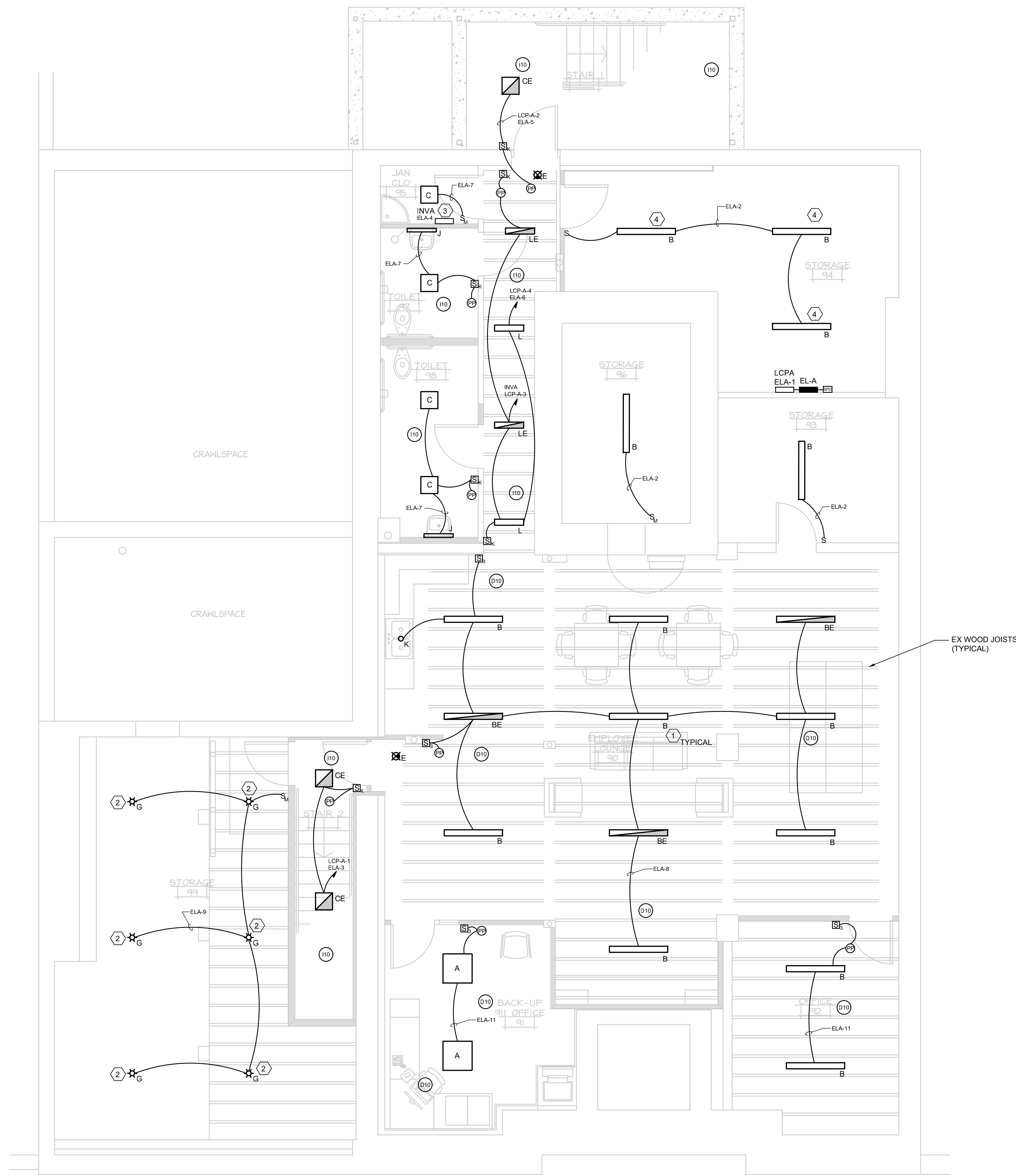
SECOND FLOOR DEMOLITION PLAN



105+ Main Street
Flushing, Michigan 48433
810-659-7118 voice
810-659-7224 fax

www.njib-architects.com

E1.2



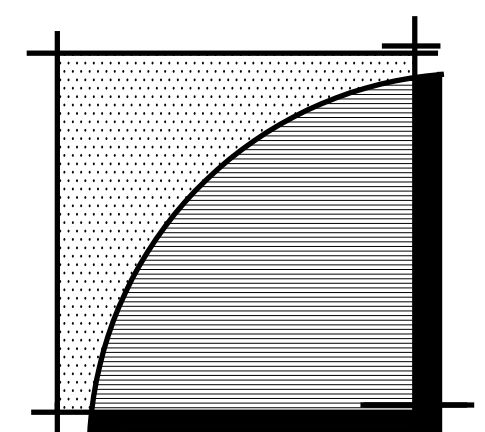
- GENERAL NOTES**
- REFER TO SHEET E3.1 FOR OCCUPANCY SENSOR WIRING DIAGRAMS AND LIGHTING CONTROL SCHEMES.
 - REFER TO SHEET E3.2 FOR LIGHT FIXTURE SCHEDULE AND SYMBOLS.
 - REFER TO SHEET E3.3 FOR PANELBOARD SCHEDULES AND LCP PANEL SCHEDULES.
 - REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND STAIRWAY ELEVATIONS.
 - EXIT LIGHTS SHALL OPERATE 24/7. WIRE TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY CONDUITS.

- KEYED NOTES**
- INSTALL THE LIGHT FIXTURE CENTERED IN BETWEEN THE WOOD JOIST.
 - KEYLESS LAMP HOLDER FOR A19 LED LAMP. SEE LIGHT FIXTURE SCHEDULE.
 - WALL MOUNT INV A AT THE CEILING.
 - COORDINATE LIGHT FIXTURE LOCATION WITH HVAC DUCTS TO AVOID INTERFERENCES. SEE MECHANICAL.

NORTH
 LOWER LEVEL - LIGHTING PLAN
 1/4"=1'-0"

MACMILLAN ASSOCIATES CONSULTING ENGINEERS 714 EAST WILSON AND FREEL ST. • BAY CITY, MICHIGAN 48706 517.871.1200 FAX 517.871.1209 WWW.MACMILLAN.COM	REVIEWED BY JWF	DATE 05/26/23	SCALE AS NOTED	PROJECT NO. 220240	DATE 05/26/23
Seal	DRAWN BY RLM	REVISION/DESCRIPTION BID DOCUMENTS	CAD FILE	REV # 1	

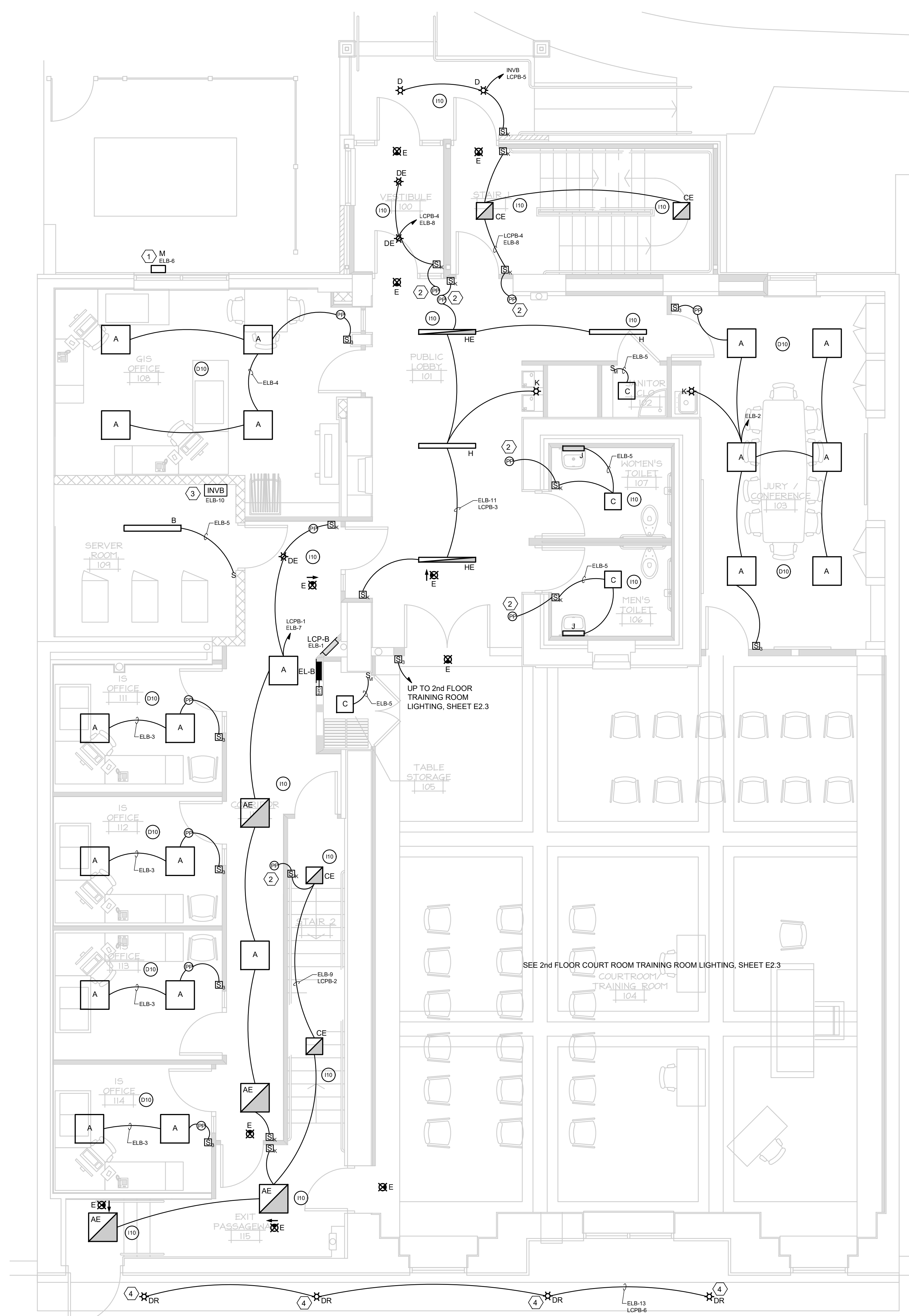
RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI
LOWER LEVEL - LIGHTING PLAN



**NJIB
 ARCHITECTS
 INC.**

105 1/2 Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax

www.njibarchitects.com



NORTH
FIRST FLOOR - LIGHTING PLAN
 1/4"=1'-0"

- GENERAL NOTES**
- REFER TO SHEET E3.1 FOR OCCUPANCY SENSOR WIRING DIAGRAMS AND LIGHTING CONTROL SCHEMES.
 - REFER TO SHEET E3.2 FOR LIGHT FIXTURE SCHEDULE AND SYMBOLS.
 - REFER TO SHEET E3.3 FOR PANELBOARD SCHEDULES AND LCP PANEL SCHEDULES.
 - REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND STAIRWAY ELEVATIONS.
 - EXIT LIGHTS SHALL OPERATE 24/7 WIRE TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY CONDUITS.
- KEYED NOTES**
- MOUNT TYPE M WALL PACK ABOVE THE WINDOW. SEE ARCHITECTURAL ELEVATION DRAWING FOR THE MOUNTING HEIGHT. LIGHT FIXTURE SHALL AUTOMATICALLY OPERATE DUSK TO DAWN.
 - MOUNT THE POWER PACK IN THE ACCESSIBLE CEILING SPACE.
 - WALL MOUNT INV8 AT THE CEILING LINE.
 - REMOVE THE EXISTING SOFFIT MOUNTED 12" SQUARE RECESSED LIGHT FIXTURE. PROVIDE A 1/8" ALUMINUM PLATE TO FIT THE SOFFIT OPENING. DRILL THE ALUMINUM PLATE TO FIT THE TYPE D LIGHT FIXTURE FOR RECESSED MOUNT. PAINTING TRADES SHALL COLOR MATCH THE ALUMINUM PLATE.

MACMILLAN ASSOCIATES CONSULTING ENGINEERS
 714 EAST WILDA ANDERSON
 10000 WILSON ROAD, SUITE 100
 EAST LANSING, MI 48126
 TEL: 313.487.1100 FAX: 313.487.1101 WWW.MACMILLAN.COM

REV #	REVISION/DESCRIPTION	DATE	REVIEWED BY	DATE	DATE
1	BID DOCUMENTS	05/26/23	JWF		

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI

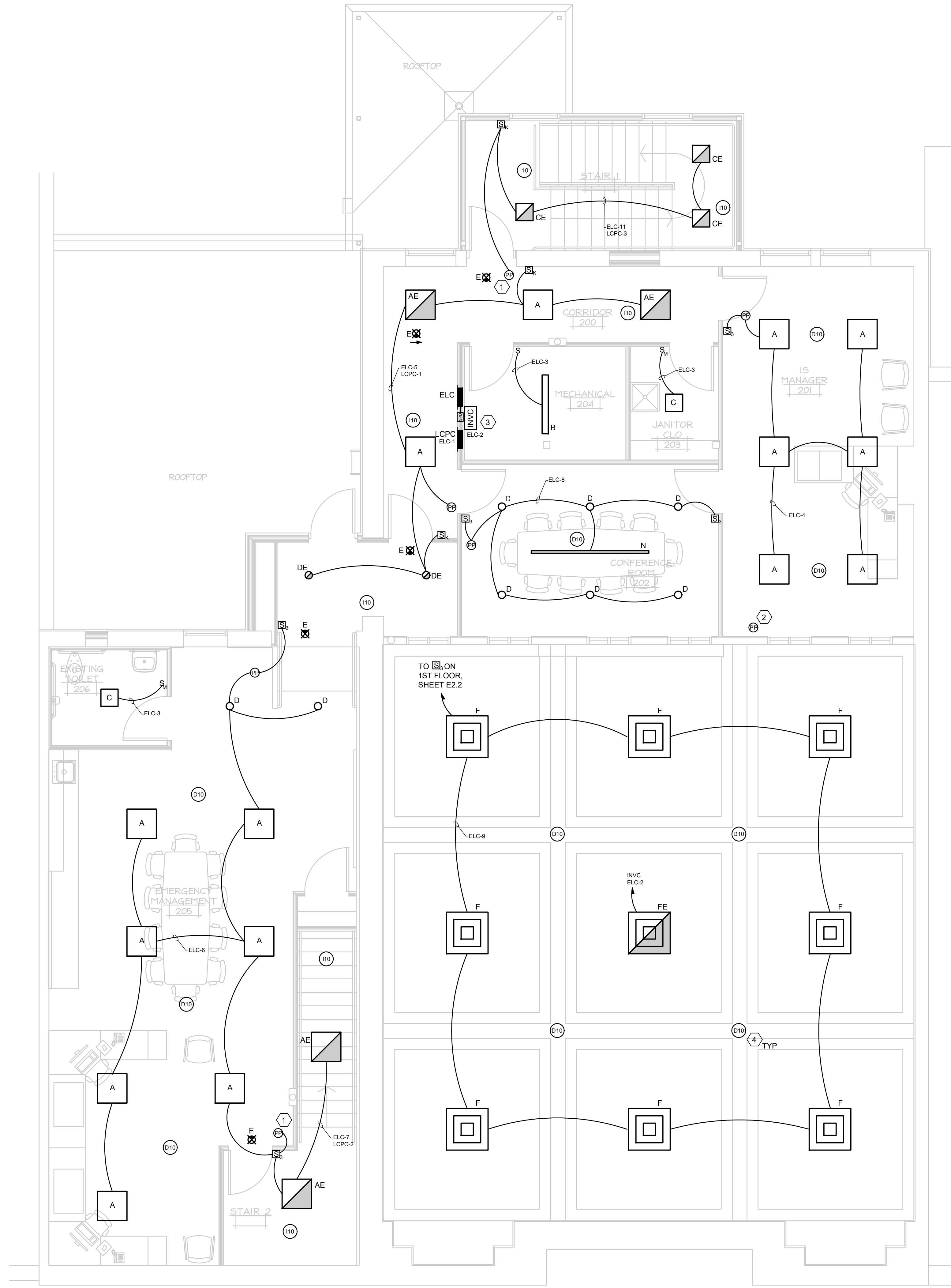
FIRST FLOOR - REVISED LIGHTING PLANS

NJB ARCHITECTS INC.

105 1/2 Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax

www.njbarchitects.com

Seal



- GENERAL NOTES**
- REFER TO SHEET E3.1 FOR OCCUPANCY SENSOR WIRING DIAGRAMS AND LIGHTING CONTROL SCHEMES.
 - REFER TO SHEET E3.2 FOR LIGHT FIXTURE SCHEDULE AND SYMBOLS.
 - REFER TO SHEET E3.3 FOR PANELBOARD SCHEDULES AND LCP PANEL SCHEDULES.
 - REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND STAIRWAY ELEVATIONS.
 - EXIT LIGHTS SHALL OPERATE 24/7. WIRE TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY CONDUITS.

- KEYED NOTES**
- MOUNT THE POWER PACK IN THE ACCESSIBLE CEILING SPACE.
 - POWER PACK FOR COURTROOM OCCUPANCY SENSOR. MOUNT IN THE ACCESSIBLE CEILING SPACE.
 - WALL MOUNT INVC AT CEILING LINE.
 - COORDINATE OCCUPANCY SENSOR INSTALLATION ON THE CEILING TRIM WITH THE ARCHITECT.

NORTH
SECOND FLOOR - LIGHTING PLAN
 1/4"=1'-0"

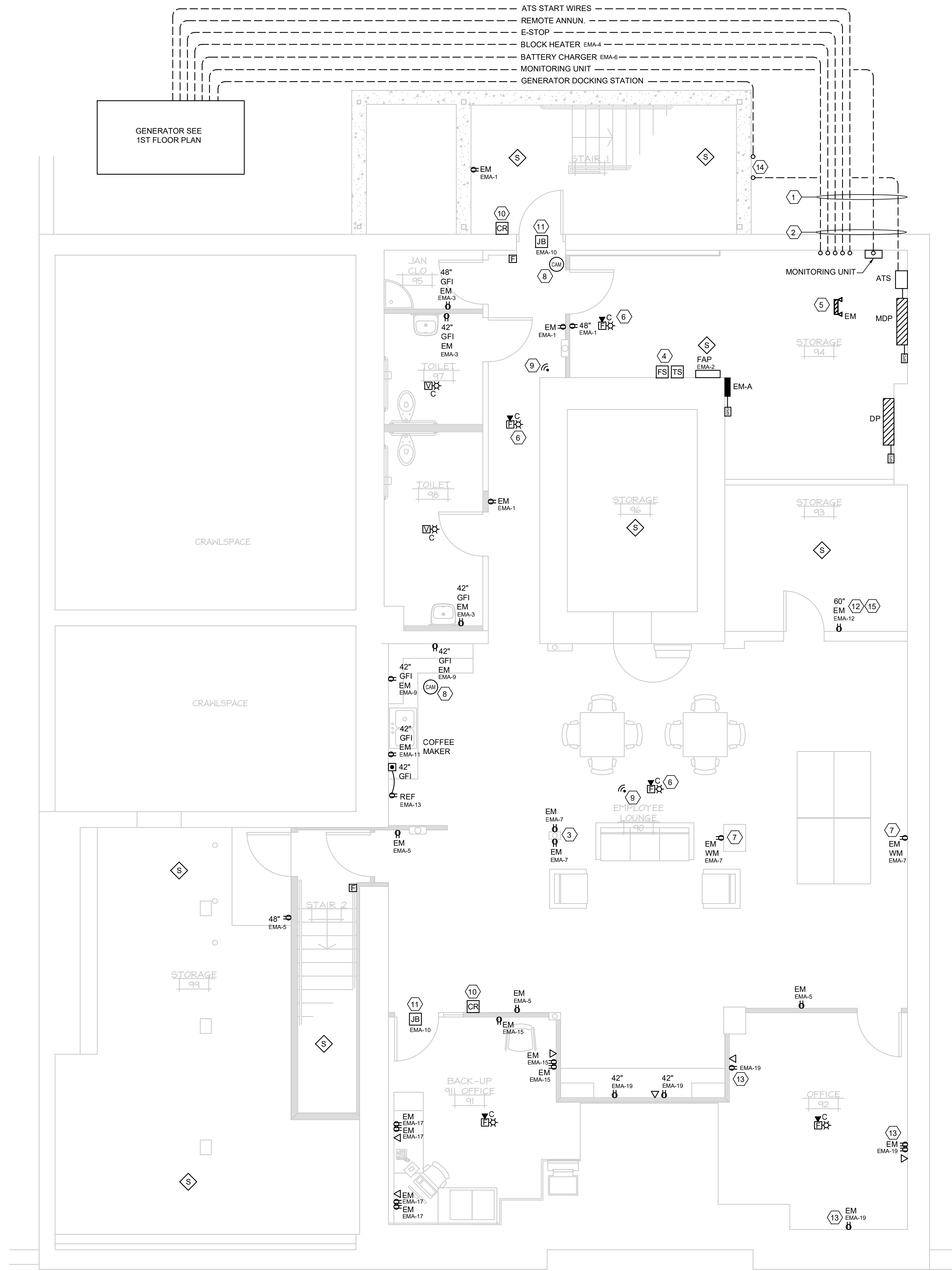
MACMILLAN ASSOCIATES CONSULTING ENGINEERS
 714 EAST WILDA ANDERSON
 RAY CITY, MICHIGAN 48766
 517-932-1100 FAX 517-932-1109 WWW.MACMILLAN.COM

DATE	05/26/23	REVIEWED BY	JMF
REVISION/DESCRIPTION		DRAWN BY	RLM
1	BID DOCUMENTS	PROJECT NO.	220240
		CAD FILE	
		SCALE	AS NOTED
		DATE	05/26/23

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI

SECOND FLOOR - LIGHTING PLAN

NJIB ARCHITECTS INC.
 105 1/2 Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax
 www.njibarchitects.com



GENERAL NOTES

1. REFER TO SHEET E3.3 FOR PANELBOARD SCHEDULES.
2. REFER TO SHEET E4.1 FOR ONE-LINE DIAGRAM.
3. REFER TO SHEET E3.2 FOR SYMBOLS, WIRING METHODS AND SCHEDULES.
4. OWNER SHALL BE RESPONSIBLE FOR DATA CABLES, FACEPLATES, TESTING AND TERMINATIONS.

KEYED NOTES

1. SAW CUT, EXCAVATE AND BACKFILL TO FINAL GRADE FOR NEW UNDERGROUND CONDUITS. FIELD CORRODATE CONDUITS WITH THE NEW UTILITY C/T CABINET. GENERATOR DOCKING STATION AND THE MAIN SERVICE ENCLOSED CIRCUIT BREAKER. SEE 1ST LEVEL PLAN. ELECTRICAL TRADES SHALL REVIEW MECHANICAL DRAWINGS FOR NEW FIRE PROTECTION SERVICE AND WATER SERVICE AND RAIN CONDUCTOR PIPING BEING INSTALLED ON THE EAST SIDE OF THE NEW STAIRWAY. PROVIDE 2" MINIMUM COVER. USE SCH 40 PVC CONDUIT WITH BOTTOM, INTERMEDIATE AND TOP SPACERS. REVIEW UTILITY.
2. USE "LINK SEAL" WHERE CONDUITS PASSES THRU THE FOUNDATION WALL.
3. ELECTRICAL TRADES SHALL FLUSH MOUNT THE RECEPTACLE BACKBOXES AND CONCEAL THE CONDUIT DROP. COORDINATE THIS WORK WITH THE GENERAL TRADES WITH THE COLUMN TRIM OUT.
4. NEW FLOW AND TAMPER SWITCHES. FIELD CONFIRM THE FINAL LOCATION WITH THE FIRE PROTECTION CONTRACTOR. WIRE TO THE FIRE ALARM SYSTEM.
5. NEW TWIN HEAD EMERGENCY LIGHT. CEILING MOUNT. LIGHTING UNIT HEADS SHALL BE AHEAD TOWARDS THE ATS SWITCH. EMERGENCY LIGHTING UNIT SHALL BE UTILIZED FOR EMERGENCY LIGHTING FOR THE ATS SWITCH IN THE EVENT THE GENERATOR FAILS TO START DURING A POWER OUTAGE. WIRE TO A LOCAL LIGHTING CIRCUIT, BUT WIRED AHEAD OF ANY LOCAL SWITCHING.
6. CENTER THE FIRE ALARM DEVICE BETWEEN THE EXPOSED EXISTING CEILING JOISTS. PROVIDE A SUPPORT.
7. UTILIZE "WIREMOLD" ONE-PIECE STEEL 700 SERIES RACEWAY. PROVIDE A "WIREMOLD" RECEPTACLE BOX.
8. CAMERA ROUGH-IN. FIELD CONFIRM THE FINAL LOCATION WITH THE OWNER. CAMERA FURNISHED AND INSTALLED BY THE OWNER. NO 120 VOLT CIRCUIT IS REQUIRED. POE (POWER OVER ETHERNET) SHALL BE UTILIZED FOR THE CAMERA POWER.
9. WIFI ROUGH-IN. FIELD CONFIRM THE FINAL LOCATION WITH THE OWNER. WIFI FURNISHED AND INSTALLED BY THE OWNER.
10. CARD READER ROUGH-IN. FURNISH AND INSTALL AN EMPTY FLUSH MOUNTED 4" SQUARE BOX. INCLUDE A SINGLE GANG DEVICE RING AND A CONCEALED 3/4" CONDUIT DROP. EXTEND THE CONDUIT TO THE DOOR'S JUNCTION BOX.
11. INSTALL A JUNCTION BOX ABOVE THE DOOR WITH A 120 VOLT CIRCUIT. THE 120 VOLT CIRCUIT IS FOR USE BY THE CARD READER VENDOR TO INSTALL A POWER SUPPLY UNIT. ELECTRICAL TRADES SHALL FURNISH AND INSTALL AN EMPTY 3/4" CONDUIT IN THE DOOR FRAME FOR USE BY THE INSTALLING CARD READER VENDOR.
12. DUPLEX RECEPTACLE FOR OWNER'S WALL MOUNTED DATA RACK. FIELD CONFIRM THE LOCATION WITH THE OWNER.
13. UTILIZE SURFACE MOUNTED EMT CONDUIT AND 4" SQUARE BOX.
14. CONDUIT RISERS TO GENERATOR DOCKING STATION.
15. BOND THE DATA RACK TO THE 1ST FLOOR SERVER ROOM ISOLATED GROUND BAR. PROVIDE #4 BARE COPPER CONDUCTOR.

MACMILLAN ASSOCIATES CONSULTING ENGINEERS
 1701 W. WANDA AND STREET • BAY CITY, MICHIGAN 48706
 (517) 672-1100 FAX (517) 672-1109 WWW.MACMILLAN-ENGINEERS.COM

REVIEWED BY	JWF	DATE	05/26/23
DRAWN BY	RLM	DATE	05/26/23
PROJECT NO.	220240	SCALE	AS NOTED
CAD FILE		DATE	05/26/23

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI
LOWER LEVEL - POWER AND SYSTEMS PLAN

NJIB ARCHITECTS INC.
 105 1/2 Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax
 www.njibarchitects.com

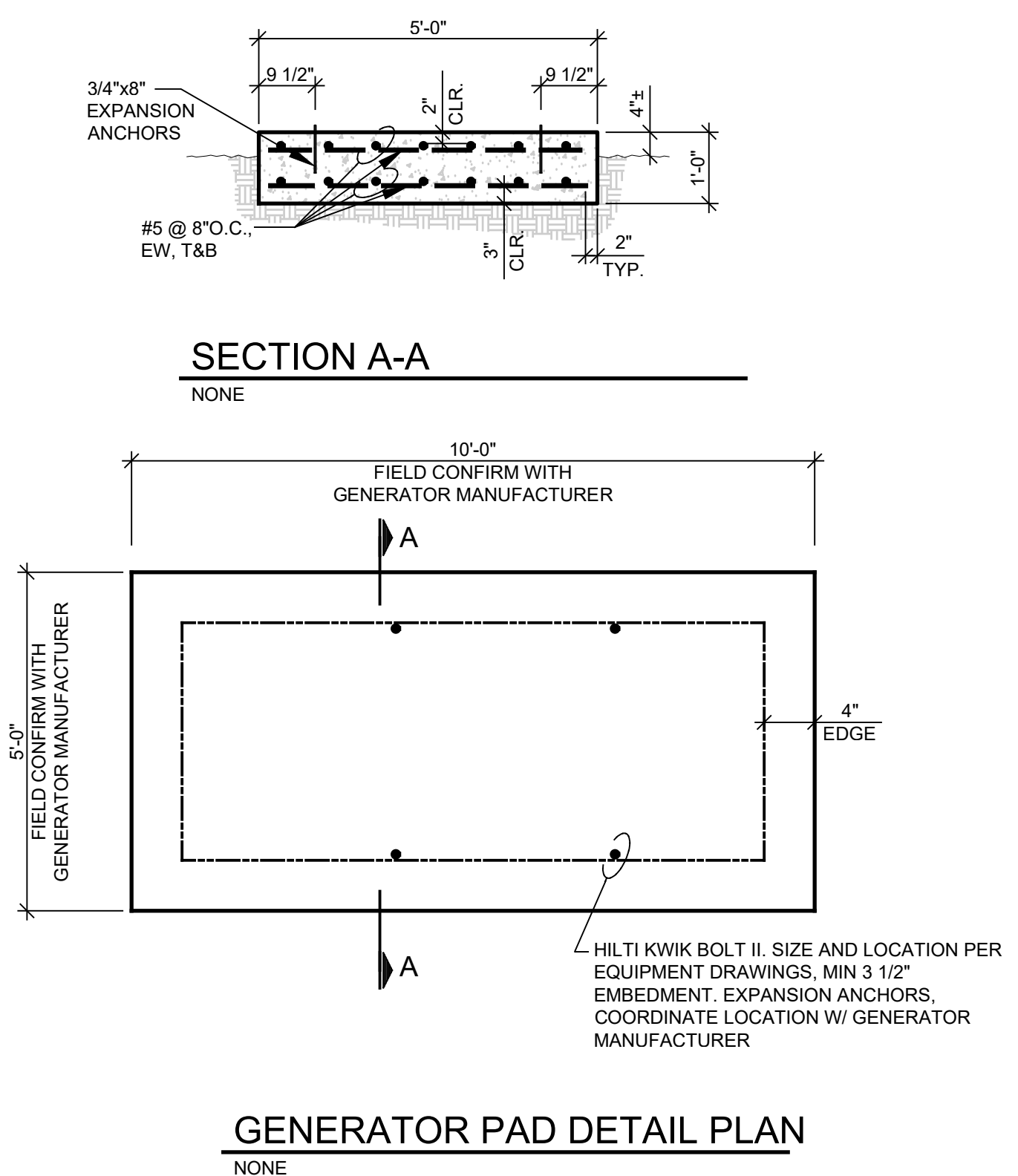
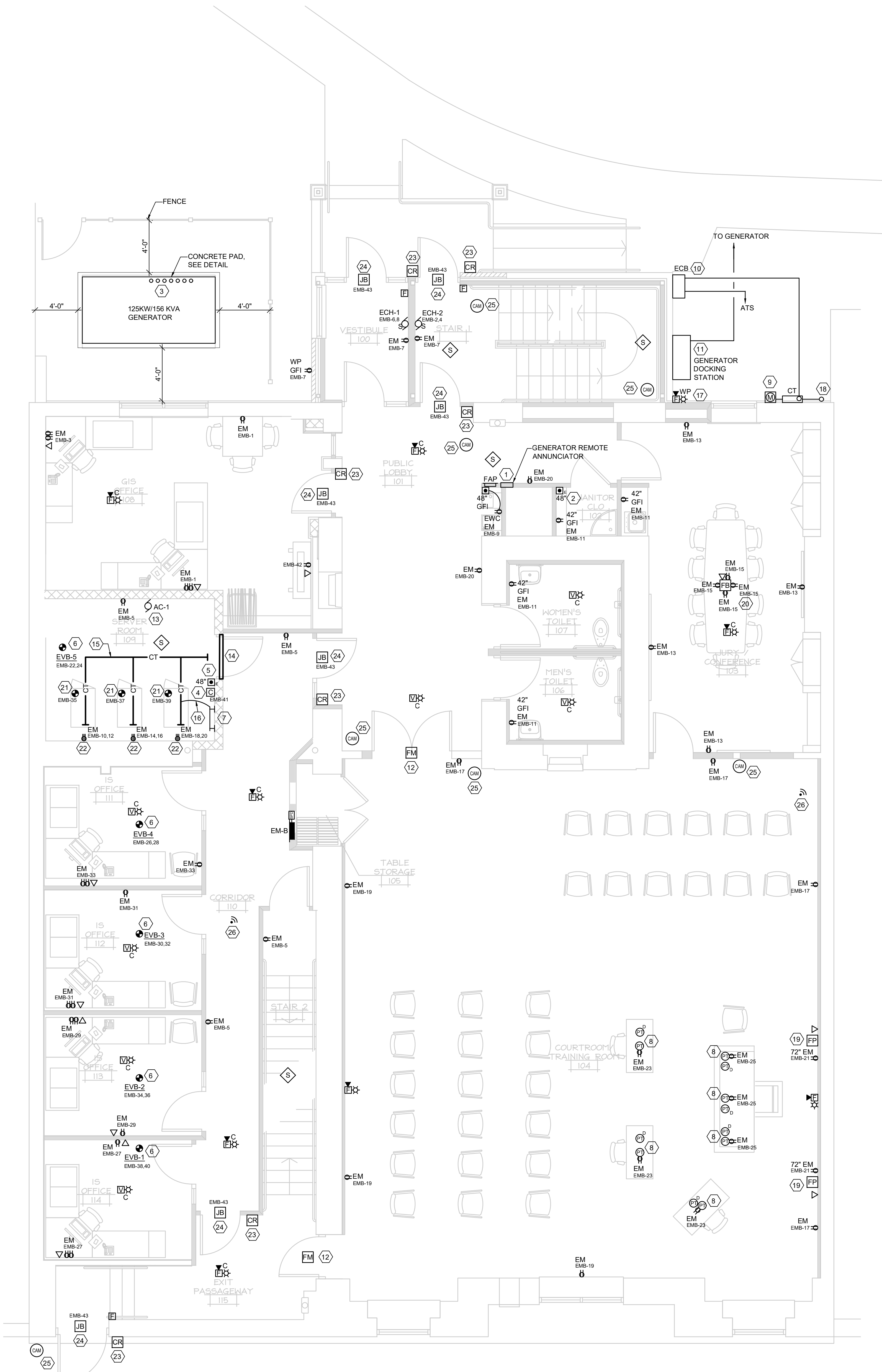
REVIEWED BY	JWF	DATE	05/26/23
DRAWN BY	RLM	PROJECT NO.	220240
SCALE	AS NOTED	CAD FILE	
DATE	05/26/23		

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI

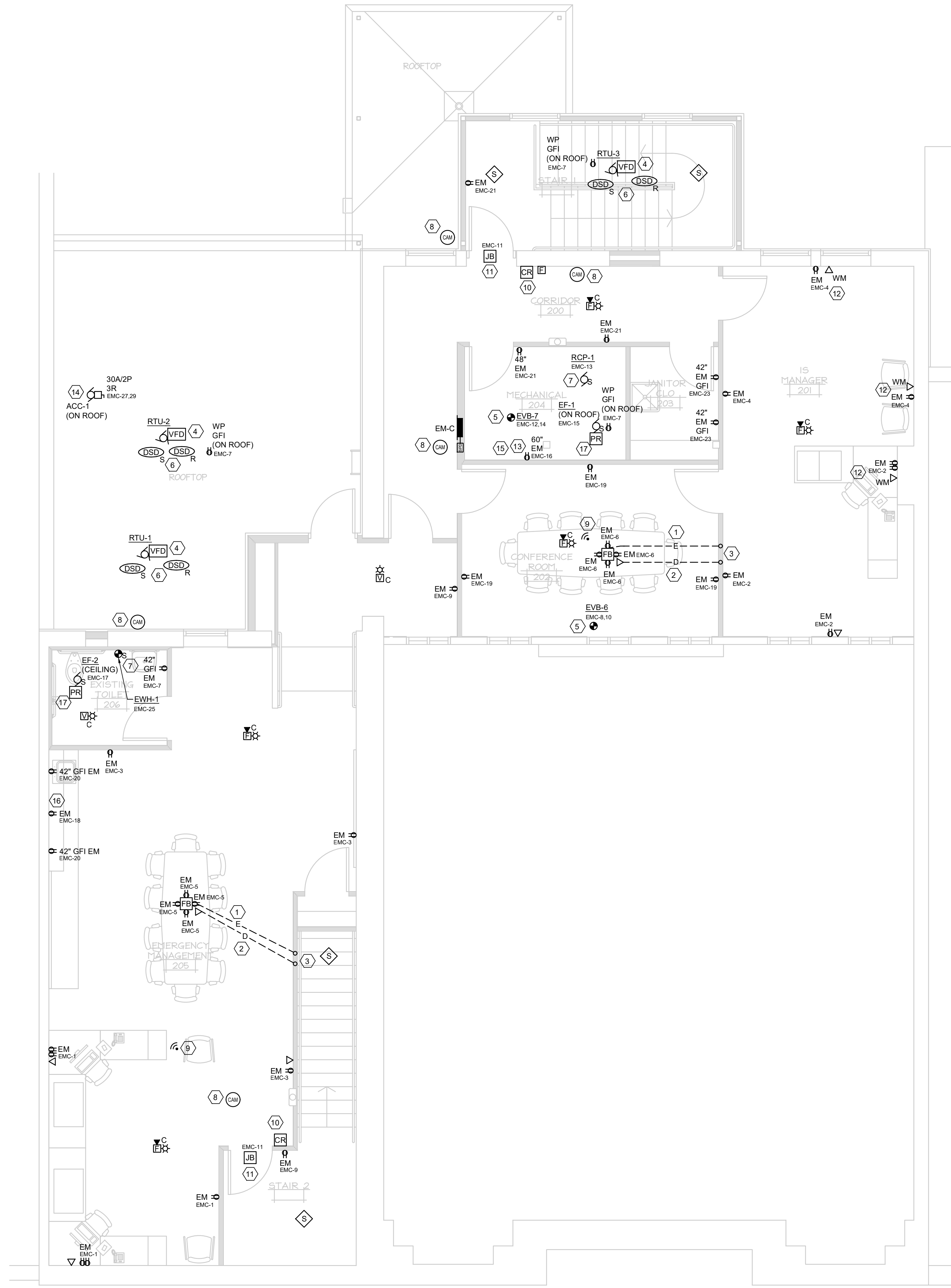
NJB ARCHITECTS INC.
 1051 Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax
 www.njbarchitects.com

- GENERAL NOTES**
- REFER TO SHEET E3.3 FOR PANELBOARD SCHEDULES.
 - REFER TO SHEET E4.1 FOR ONE-LINE DIAGRAM.
 - REFER TO SHEET E3.2 FOR SYMBOLS, WIRING METHODS AND SCHEDULES.
 - PROVIDE (4) EMPTY 3/4" CONDUITS STUBBED INTO THE ACCESSIBLE CEILING SPACE ABOVE PANEL EMB-8.
 - OWNER SHALL BE RESPONSIBLE FOR COURTROOM TRAINING ROOM AUDIO/VIDEO AND MICROPHONE SYSTEM NO ELECTRICAL ROUGH-INS OR POWER WORK REQUIRED.
 - OWNER SHALL BE RESPONSIBLE FOR DATA CABLES, FACEPLATES, TESTING AND TERMINATIONS.

- KEYED NOTES**
- GENERATOR'S REMOTE ANNUNCIATOR PANEL. COMPLETE WIRING TO THE GENERATOR.
 - GENERATOR'S REMOTE E-STOP STATION. COMPLETE WIRING TO THE GENERATOR.
 - GENERATOR CONDUIT RISERS LOCATION IS SHOWN DIAGMATIC. FIELD CONFIRM WITH THE GENERATOR SHOP DRAWINGS. SEE LOWER LEVEL POWER AND SYSTEMS PLAN E2.4 FOR CONDUITS ROUTE.
 - MULTI-POLE CONTACTOR FOR SERVER ROOM HVAC SHUTDOWN. SEE SHEET E3.2 FOR WIRING DIAGRAM.
 - E-STOP BUTTON FOR SERVER ROOM HVAC SHUTDOWN. SEE SHEET E3.2 FOR WIRING DIAGRAM.
 - ELECTRIC VOLUME BOX SHALL BE FACTORY EQUIPPED WITH A MAIN POWER DISCONNECTING MEANS. COMPLETE A SINGLE POINT POWER CONNECTION.
 - 1/4"x4"x1/2" COPPER GROUND BAR. PROVIDE STAND-OFF SUPPORTS. CONNECT THIS GROUND BAR TO THE MAIN SERVICE ENCLOSED CIRCUIT BREAKER.
 - CORE DRILL THE EXISTING TERRAZZO FLOOR FOR THE POKE THRU TYPE FLOOR BOX. COORDINATE THE FINAL LOCATION WITH OWNER AND ARCHITECT. JUDGE'S BENCH, WITNESS STAND AND ATTORNEY TABLES ARE ONLY SHOWN FOR REFERENCE PURPOSES. PROVIDE 1" CONDUIT FOR DATA AND 3/4" CONDUIT FOR POWER TO EACH RESPECTIVE POKE THRU BOX.
 - METER AND UTILITY CT CABINET. ELECTRICAL TRADES SHALL FURNISH AND INSTALL THE CABINET, THE CONDUIT MAST, WEATHERHEAD FITTING AND CONDUCTORS. UTILITY SHALL COMPLETE THE AERIAL SERVICE. COORDINATE THE FINAL LOCATION WITH THE OWNER AND UTILITY.
 - MAIN SERVICE ENCLOSED CIRCUIT BREAKER. SEE E4.1 ONE-LINE DIAGRAM.
 - GENERATOR DOCKING STATION ENCLOSURE FOR TEMPORARY GENERATOR CONNECTION AND LOAD BANK TEST. SEE E4.1 ONE-LINE FOR CONNECTIONS.
 - EMPTY 4" SQUARE BOX FOR FUTURE FIRE ALARM MODULE RELAYS FOR DOOR RELEASE.
 - AC-1 IS POWERED FROM ROOF UNIT ACCU-1. WIRING HARNESS IS SUPPLIED WITH ACC-1. COMPLETE POWER CONNECTIONS.
 - ELECTRICAL TRADES SEAL THE WALL OPENING. USE A "NELSON BARRIER" OR EQUAL FOR USE BY THE OWNER TO INSTALL AND SEAL DATA CABLES.
 - SUSPEND THE FLEXIBLE WIRE MESH CABLE TRAY OVERHEAD. USE CENTER ROD SUPPORTS. FIELD POSITION THE CABLE TRAY OVER EACH RESPECTIVE SERVER.
 - FURNISH AND INSTALL A #4 BARE COPPER BOND CONDUCTOR FROM THE SERVER GROUND BAR TO THE CABLE TRAY. EXTEND THE BARE COPPER BOND CONDUCTOR FOR THE ENTIRE CABLE TRAY LENGTH OF RUN.
 - NEW EXTERIOR HORN/STROBE. WIRE TO THE FIRE ALARM SYSTEM AND TO SPRINKLER RISER FLOW AND TAMPER SWITCHES. FIELD CONFIRM THE FINAL LOCATION WITH THE FIRE PROTECTION CONTRACTOR.
 - ELECTRICAL TRADES SHALL FURNISH AND INSTALL A GALVANIZED RIGID STEEL CONDUIT AND WEATHER HEAD FOR USE BY UTILITY FOR AERIAL SERVICE CONNECTION. FIELD CONFIRM WITH THE OWNER AND UTILITY.
 - FP (FLAT PANEL) ROUGH-IN AND RECEPTACLE. CONFIRM FINAL LOCATION WITH THE OWNER.
 - PROVIDE 3/4" CONDUIT FOR POWER AND 1" CONDUIT FOR DATA. FIELD ROUTE FLOOR BOX CONDUITS IN BASEMENT OPEN JOIST SPACE.
 - COMPLETE 120 VOLT POWER CONNECTION TO THE SERVER'S POWER STRIP. FIELD CONFIRM WITH THE OWNER.
 - 208 VOLT RECEPTACLE FOR CORD/PLUG CONNECTION TO THE SERVER. FIELD CONFIRM WITH THE OWNER.
 - CARD READER ROUGH-IN. FURNISH AND INSTALL AN EMPTY FLUSH MOUNTED 4" SQUARE BOX. INCLUDE A SINGLE DEVICE RING AND A CONCEALED 3/4" CONDUIT DROP. EXTEND THE CONDUIT TO THE DOOR'S JUNCTION BOX.
 - INSTALL A JUNCTION BOX ABOVE THE DOOR WITH A 120 VOLT CIRCUIT. THE 120 VOLT CIRCUIT IS FOR USE BY THE CARD READER VENDOR. TO INSTALL A POWER SUPPLY UNIT. ELECTRICAL TRADES SHALL FURNISH AND INSTALL AN EMPTY 3/4" CONDUIT IN THE DOOR FRAME FOR USE BY THE INSTALLING CARD READER VENDOR.
 - CAMERA ROUGH-IN. FIELD CONFIRM THE FINAL LOCATION WITH THE OWNER. CAMERA FURNISHED AND INSTALLED BY THE OWNER. POE (POWER OVER ETHERNET) SHALL BE UTILIZED FOR THE CAMERA POWER. NO 120 VOLT CIRCUIT IS REQUIRED.
 - WIFI ROUGH-IN. FIELD CONFIRM THE FINAL LOCATION WITH THE OWNER.



- NOTES:**
- CONCRETE - FC=4000 PSI, 6% AIR ENTRAINED
 - REBAR - ASTM A605 GRADE 60
 - DIMENSIONS INDICATED ARE ONLY A GUIDELINE AND SHOWN FOR COORDINATION PURPOSES. FIELD VERIFY DIMENSIONS WITH GENERATOR MANUFACTURER PRIOR TO PAD CONSTRUCTION.
 - FIELD CONFIRM THE NATURAL GAS PIPING CONNECTION WITH THE GENERATOR MANUFACTURER.



NORTH
 SECOND FLOOR - POWER AND SYSTEMS PLAN
 1/4"=1'-0"

- GENERAL NOTES**
- REFER TO SHEET E3.3 FOR PANELBOARD SCHEDULES.
 - REFER TO SHEET E4.1 FOR ONE-LINE DIAGRAM.
 - REFER TO SHEET E3.2 FOR SYMBOLS, WIRING METHODS AND SCHEDULES.
 - PROVIDE (4) EMPTY 3/4" CONDUITS STUBBED INTO THE ACCESSIBLE CEILING SPACE ABOVE PANEL EM-B.
 - EF-1 AND EF-2 EXHAUST FAN SHALL BE CONTROLLED BY THE TEMPERATURE CONTROL CONTRACTOR.
 - OWNER SHALL BE RESPONSIBLE FOR DATA CABLES, FACEPLATES, TESTING AND TERMINATIONS.

- KEYED NOTES**
- SAW CUT THE FLOOR FOR A 3/4" POWER CONDUIT CONNECTION TO THE FLOOR BOX. EXTEND THE CONDUIT TO THE WALL FOR A CONCEALED DROP.
 - SAW CUT THE FLOOR FOR A 1 1/4" DATA CONNECTION TO THE FLOOR BOX. EXTEND THE CONDUIT TO THE WALL FOR A CONCEALED DROP.
 - CONCEALED CONDUIT RISER IN NEW WALL. EXTEND THE CONDUITS INTO THE ACCESSIBLE CEILING SPACE.
 - COMBINATION VFD/ DISCONNECT SWITCH FACTORY INSTALLED WITH ROOF TOP UNIT. COMPLETE A SINGLE POINT POWER CONNECTION.
 - ELECTRIC VOLUME BOX SHALL BE FACTORY EQUIPPED WITH A MAIN POWER DISCONNECT IN MEANS. COMPLETE A SINGLE POINT.
 - FIELD LOCATE DUCT SMOKE DETECTORS IN A STRAIGHT DUCT SECTION. FOR COMPLIANCE TO NFPA 90A REQUIREMENTS. SEE MECHANICAL PLANS. FURNISH AN INSTALL A REMOTE TEST STATION. FIELD LOCATE.
 - FURNISH AND INSTALL A 120 VOLT SNAP SWITCH FOR THE DISCONNECTING MEANS.
 - CAMERA ROUGH-IN. FIELD CONFIRM THE FINAL LOCATION WITH THE OWNER. CAMERA FURNISHED AND INSTALLED BY THE OWNER. NO 120 VOLT CIRCUIT REQUIRED. POE (POWER OVER ETHERNET) SHALL BE UTILIZED FOR CAMERA POWER.
 - WIFI ROUGH-IN. FIELD CONFIRM THE FINAL LOCATION WITH THE OWNER. WIFI FURNISHED AND INSTALLED BY THE OWNER.
 - CARD READER ROUGH-IN. FURNISH AND INSTALL AN EMPTY FLUSH MOUNTED 4" SQUARE BOX, SINGLE GANG DEVICE AND A CONCEALED 3/4" CONDUIT INCLUDE A DROP. EXTEND THE CONDUIT TO THE DOOR'S JUNCTION BOX.
 - INSTALL A JUNCTION BOX ABOVE THE DOOR WITH A 120 VOLT CIRCUIT. 120 VOLT CIRCUIT IS FOR USE BY THE CARD READER VENDOR TO INSTALL A POWER SUPPLY UNIT. ELECTRICAL TRADES SHALL FURNISH AND INSTALL AN EMPTY 3/4" CONDUIT IN THE DOOR FRAME FOR USE BY THE INSTALLING CARD READER VENDOR.
 - UTILIZE "WIREMOLD" ONE-PIECE STEEL 700 SERIES RACEWAY. PROVIDE A "WIREMOLD" A RECEPTACLE AND EMPTY DOUBLE GANG DATA OUTLET BOX.
 - EMERGENCY POWERED RECEPTACLES FOR WALL MOUNTED DATA CABINET. CONFIRM THE FINAL LOCATION WITH THE OWNER.
 - ACC-1 POWERS AC-1 IN THE SERVER ROOM. COMPLETE THE FACTORY WIRING HARNESS CONNECTION.
 - BOND THE DATA RACK TO THE 1ST FLOOR SERVER ROOM ISOLATED GROUND BAR. PROVIDE #4 BARE COPPER CONDUCTOR.
 - DUPLEX RECEPTACLE UNDER THE COUNTER REFRIGERATOR.
 - PROVIDE A POWER RELAY FOR EF. MECHANICAL TRADES SHALL PROVIDE CONTROLS TO POWER RELAY.

MACMILLAN ASSOCIATES CONSULTING ENGINEERS
 714 EAST WANDA STREET • BAY CITY, MICHIGAN 49706
 TEL: 517-232-1100 FAX: 517-232-1101 WWW.MACMILLAN.COM

REVIEWED BY	JMF	DATE	05/26/23
DRAWN BY	RLM	REVISION/ISSUANCE	BID DOCUMENTS
PROJECT NO.	220240	REV #	1
SCALE	AS NOTED		
DATE	05/26/23		
CAD FILE			

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI

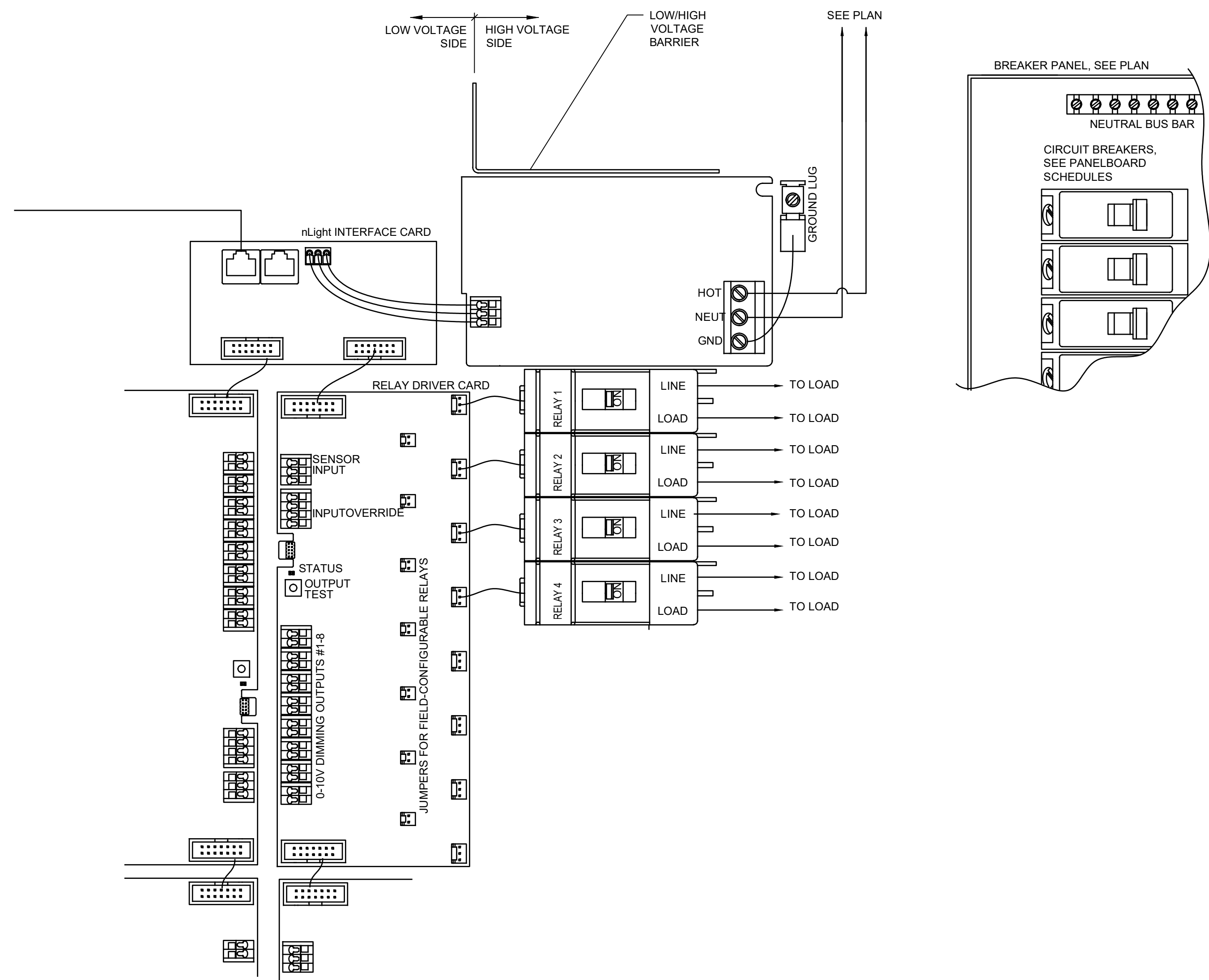
SECOND FLOOR - POWER AND SYSTEMS PLAN

NJIB
 ARCHITECTS
 INC.

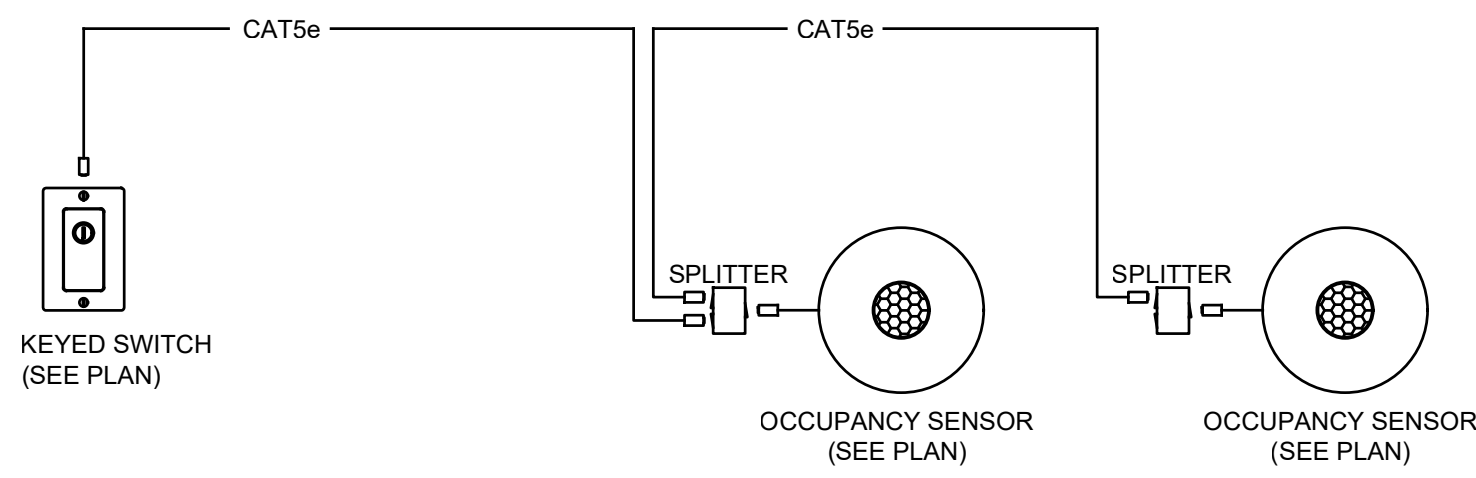
105+ Main Street
 Flushing, Michigan 48433

810-659-7118 voice
 810-659-7224 fax

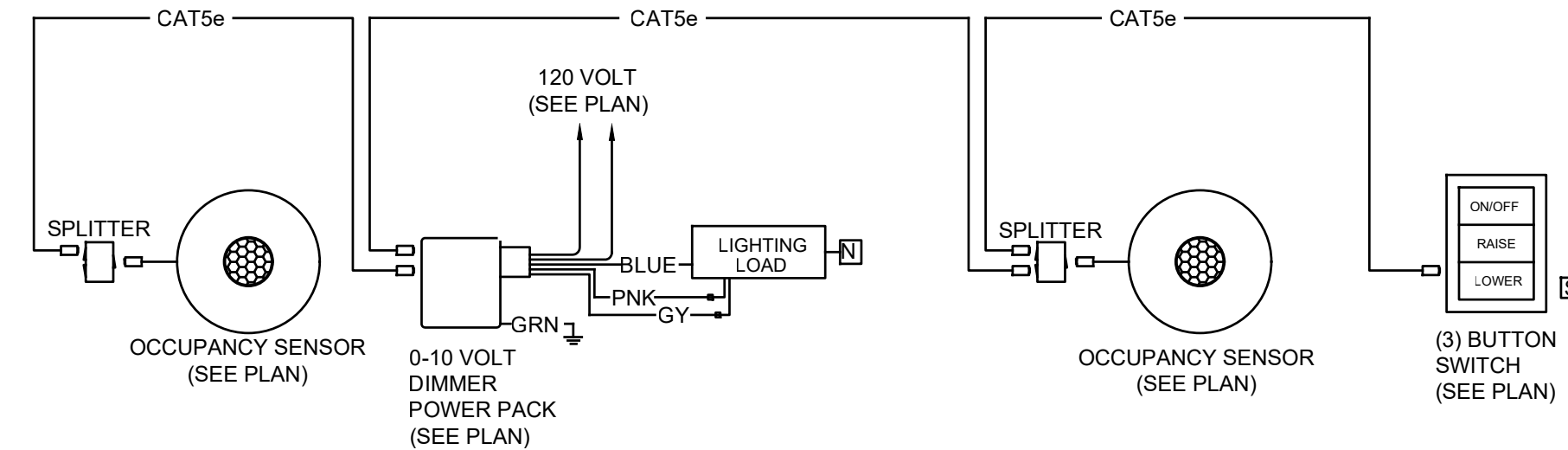
www.njibarchitects.com



TYPICAL STAIRWAY AND CORRIDOR OCCUPANCY SENSOR CONTROL DIAGRAM

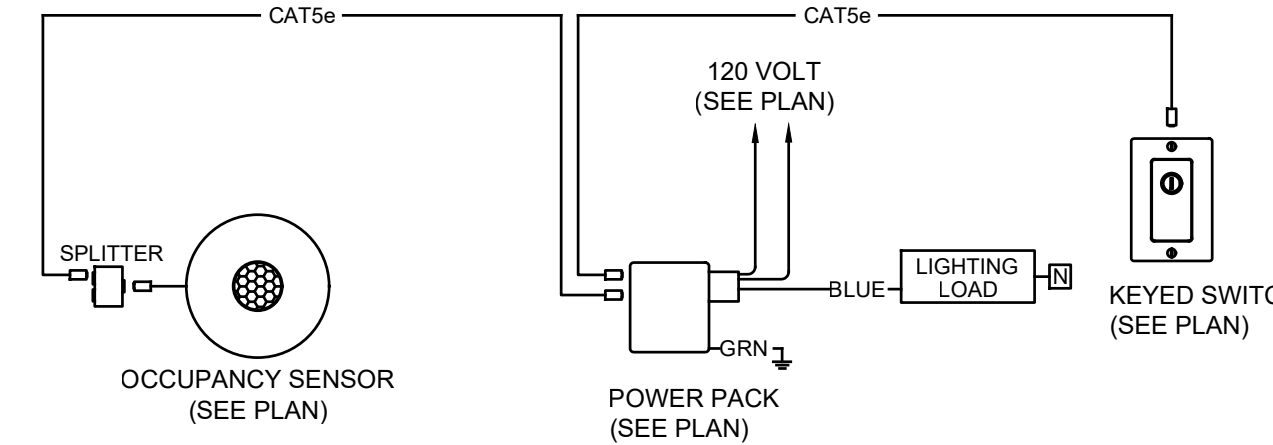


TYPICAL TOILET ROOM OCCUPANCY SENSOR LIGHT CONTROL DIAGRAM



TYPICAL 0-10 VOLT DIMMING LIGHT CONTROL DIAGRAM

- WIRING DIAGRAM NOTES**
1. USE FACTORY GREEN JACKETED CAT5E CABLE.
 2. CONTRACTOR SHALL UTILIZE CAT5E CABLES WITH FACTORY RJ45 ENDS FROM THE MANUFACTURER. CONTRACTOR ASSEMBLED CABLES AND ENDS IS NOT ACCEPTABLE FOR THIS PROJECT.
 3. PROVIDE GRAY AND PINK WIRES FOR 0-10V DIMMING.
 4. WIRING DIAGRAM AND COMPONENTS IS ACUTY BASE BID.



- WIRING DIAGRAM NOTES**
1. USE FACTORY GREEN JACKETED CAT5E CABLE.
 2. CONTRACTOR SHALL UTILIZE CAT5E CABLES WITH FACTORY RJ45 ENDS FROM THE MANUFACTURER. CONTRACTOR ASSEMBLED CABLES AND ENDS IS NOT ACCEPTABLE FOR THIS PROJECT.
 3. WIRING DIAGRAM AND COMPONENTS IS ACUTY BASE BID.

- GENERAL NOTES**
1. ACUTY COMPONENTS AND WIRING DIAGRAMS ARE BASE BID. NO OTHER MANUFACTURES WILL BE ACCEPTED.
 2. NETWORK WIRE ALL LIGHTING CONTROLS RELAYS TOGETHER SO THE OWNER CAN MONITOR LIGHTING CONTROLS WITH THEIR PC'S OR A MOBILE APP.
 3. INCLUDE COSTS FOR ON-SITE LIGHTING CONTROL TRAINING.
 4. ADJUST CORRIDOR, STAIRWAYS AND PUBLIC LOBBY AUTO-ON AND AUTO-OFF TIMES WITH THE OWNER.

LIGHTING CONTROL EXECUTIVE SUMMARY

THE FOLLOWING IS A SPACE BY SPACE DESIGN INTENT SUMMARY FOR LIGHTING CONTROLS. ALL LIGHTING CONTROLS DESIGN IS MADE IN COMPLIANCE WITH THE 2015 MICHIGAN ENERGY CODE AND 2013 ASHRAE.

OFFICES/ EMPLOYEE LOUNGE/ EMERGENCY MANAGEMENT

LIGHTING CONTROL SHALL BE MADE WITH LOCAL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSORS, POWER PACK AND LOW-VOLTAGE SWITCHING. LIGHTING SHALL COME ON TO 50% AT FIRST SENSING DETECTION, MANUAL ON TO 100%, MANUAL ON TO 90%, DIM TO 30% AFTER 10 MINUTES OF NO DETECTION, AUTO-OFF AFTER 20 MINUTES OF NO DETECTION. THE LOCAL LOW-VOLTAGE SWITCH SHALL HAVE THE FUNCTION OF:

- ON/OFF
- RAISE
- LOWER

CONFERENCE ROOMS

LIGHTING CONTROL SHALL BE MADE WITH LOCAL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSORS, POWER PACK AND LOW-VOLTAGE SWITCHING. LIGHTING SHALL COME ON TO 50% AT FIRST SENSING DETECTION, MANUAL ON TO 100%, AUTO-OFF AFTER 20 MINUTES OF NO DETECTION. THE LOCAL LOW-VOLTAGE SWITCH SHALL HAVE THE FUNCTION OF:

- ON/OFF
- RAISE
- LOWER

PUBLIC LOBBY / VESTIBULES

LIGHTING CONTROL SHALL BE MADE WITH LIGHTING CONTROL RELAY PANEL AND INFRARED OCCUPANCY SENSORS. AUTO-ON AT 7 AM AND OFF AT 6 PM. BETWEEN 6 PM AND 7 AM OCCUPANCY SENSORS ON AND OFF AFTER 15 MINUTES. LOW-VOLTAGE KEYED SWITCHING FOR MANUAL OVERRIDE.

COURTROOM-TRAINING ROOM

LIGHTING CONTROL SHALL BE MADE WITH LOCAL DUAL TECHNOLOGY SENSOR, POWER PACKS, AND LOW-VOLTAGE SWITCH FOR MANUAL ON AND AUTO OFF.

- LOW-VOLTAGE SWITCH FUNCTIONS:
- ON - ALL LIGHTS ON 100%
 - DIM - ALL LIGHTS ON TO 25% OUTPUT
 - RAISE - RAISE INTENSITY FOR ALL LIGHTING
 - LOWER - LOWER INTENSITY FOR ALL LIGHTING
 - OFF - TURN OFF ALL LIGHTS

TOILET ROOMS

LIGHTING CONTROL SHALL BE AUTO-ON, AUTO-OFF BY OCCUPANCY SENSOR WITH A MANUAL OVERRIDE KEYED SWITCH.

CORRIDORS AND STAIRWAYS

LIGHTING CONTROL SHALL BE MADE WITH LOCAL CEILING MOUNTED PASSIVE INFRARED OCCUPANCY SENSORS VIA A LIGHTING CONTROL PANEL. OCCUPANCY SENSORS AUTO-ON AT 7:00 AM, AND OFF AT 6:00 PM. BETWEEN 6 PM TO 7 AM, OCCUPANCY SENSOR ON AND OFF AFTER 15 MINUTES. LOW-VOLTAGE KEYED SWITCHING FOR MANUAL OVERRIDE.

MECHANICAL/ELECTRICAL ROOM / SERVER ROOM

MANUAL ON, MANUAL OFF LINE-VOLTAGE SWITCHING. NO OCCUPANCY SENSOR CONTROL.

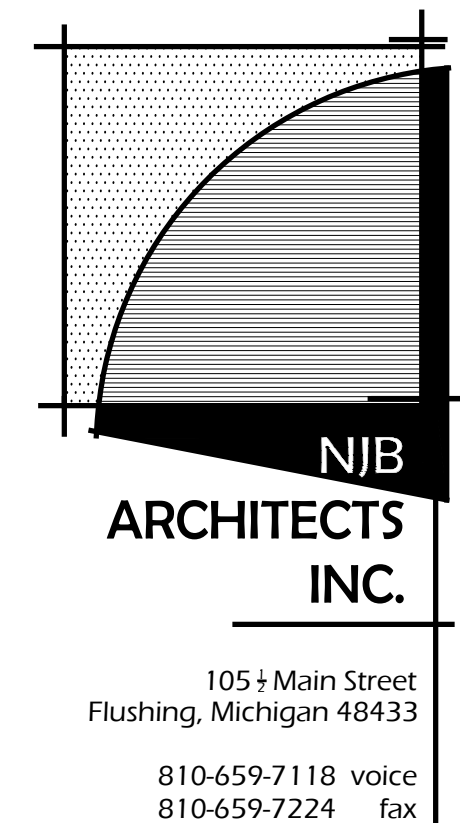
JANITOR CLOSET

WALL BOX MOTION SENSOR SWITCHING. AUTO-ON TO 100% AT FIRST SENSING DETECTION. AUTO-OFF AFTER 20 MINUTES OF NO DETECTION. THE SWITCH SHALL HAVE MANUAL ON/OFF AS WELL.

MACMILLAN ASSOCIATES CONSULTING ENGINEERS 74 E. EAST WIND AND STREET, BAY CITY, MICHIGAN 49706 (269) 937-1200 FAX (269) 937-1209		REVIEWED BY JMF	DATE 05/26/23	SCALE AS NOTED	PROJECT NO. 220240	DATE 05/26/23
Seal		DRAWN BY RLM	DATE 05/26/23	SCALE AS NOTED	PROJECT NO. 220240	DATE 05/26/23
REVISION/ISSUANCE		DATE	BY	SCALE	PROJECT NO.	DATE
1		05/26/23	JMF	AS NOTED	220240	05/26/23

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
171 N STATE ST
CARO, MI

OCCUPANCY SENSOR DIAGRAM



www.njibarchitects.com

E3.1

NEW PNL EL-A		MAIN: SIZE & TYPE: 125 A MLO		PANEL LOCATION: STOR 34					
BUS RATING: 125 A		FEEDER SIZE: DP		FEED FROM: DP					
VOLTAGE: 120 / 208 V		MOUNTING: SURFACE		MIN RMS AMPS:					
CKT #	CIRCUIT DESCRIPTION	LOAD (KVA)			CIRCUIT DESCRIPTION			CKT #	
1	LCPA	A	B	C	POLES	CKT #	POLES	CKT #	
2	STAR #1 LIGHTS	0.500			20A	11	20A	2	
3	STAR #2 LIGHTS	0.040			20A	3	20A	4	
4	STAR #3 LIGHTS	0.020			20A	5	20A	6	
5	STAR #4 LIGHTS	0.110			20A	7	20A	8	
6	LIGHTS	0.060			20A	9	20A	10	
7	LIGHTS		0.140		20A	11	20A	12	
8	LIGHTS				20A	13	20A	14	
9	LIGHTS				20A	15	20A	16	
10	LIGHTS				20A	17	20A	18	
11	LIGHTS				20A	19	20A	20	
12	SPARE								
13	SPARE								
14	SPARE								
15	SPARE								
16	SPARE								
17	SPARE								
18	SPARE								
19	SPARE								
20	SPARE								
LOAD SUMMARY		KVA CONNECTED			KVA SUMMARY				
RECEPTACLES	R	0.000	0.000	0.000	TOTAL	0.000	0.000	DEMAND	0.000
LIGHTING	L	0.510	0.390	0.210	LIGHTING	1.070	1.000	1.070	
OTHER	O	0.500	0.000	0.000	OTHER	0.500	0.600	0.300	
EXISTING	E	0.000	0.000	0.000	EXISTING	0.000	1.000	0.000	
TOTAL KVA		1.010	0.390	0.210	TOTAL KVA	1.570	1.370	TOTAL ESTIMATE KVA	
VOLTS / PHASE		120	120	120	VOLTS / PHASE	208	208	SYSTEM VOLTAGE	
AMPS / PHASE		8.417	2.917	1.750	AMPS / PHASE	4.358	3.803	AMPS	

LIGHTING CONTROL PANEL LCPA		ELA-1	
RELAY ZONE CONTROLLED	CHANNEL	CIRCUIT	
1 STAR #2	A	ELA-3	
2 STAR #1	A	ELA-5	
3 HALLWAY	A	INVA	
4 HALLWAY	A	ELA-6	
5 SPARE RELAY			
6 SPARE RELAY			
7 SPARE RELAY			
8 SPARE RELAY			
NOTES			
A OCC SENSOR ON / SCHEDULED OFF AT 10PM			

NEW PNL EL-B		MAIN: SIZE & TYPE: 125 A MLO		PANEL LOCATION: SERVER ROOM					
BUS RATING: 125 A		FEEDER SIZE: DP		FEED FROM: DP					
VOLTAGE: 120 / 208 V		MOUNTING: FLUSH		MIN RMS AMPS:					
CKT #	CIRCUIT DESCRIPTION	LOAD (KVA)			CIRCUIT DESCRIPTION			CKT #	
1	LCP-B	A	B	C	POLES	CKT #	POLES	CKT #	
2	LIGHTS	0.500			20A	11	20A	2	
3	LIGHTS	0.360			20A	3	20A	4	
4	LIGHTS	0.120			20A	5	20A	6	
5	LIGHTS	0.190			20A	7	20A	8	
6	LIGHTS		0.130		20A	9	20A	10	
7	LIGHTS				20A	11	20A	12	
8	LIGHTS				20A	13	20A	14	
9	LIGHTS				20A	15	20A	16	
10	LIGHTS				20A	17	20A	18	
11	LIGHTS				20A	19	20A	20	
12	SOFFIT LIGHTS	0.080			20A	13	20A	14	
13	SOFFIT LIGHTS				20A	15	20A	16	
14	SOFFIT LIGHTS				20A	17	20A	18	
15	SOFFIT LIGHTS				20A	19	20A	20	
16	SOFFIT LIGHTS								
17	SOFFIT LIGHTS								
18	SOFFIT LIGHTS								
19	SOFFIT LIGHTS								
20	SOFFIT LIGHTS								
LOAD SUMMARY		KVA CONNECTED			KVA SUMMARY				
RECEPTACLES	R	0.000	0.000	0.000	TOTAL	0.000	0.000	DEMAND	0.000
LIGHTING	L	0.650	1.030	0.270	LIGHTING	1.950	2.350	1.950	
OTHER	O	0.500	0.000	0.000	OTHER	0.500	0.600	0.300	
EXISTING	E	0.000	0.000	0.000	EXISTING	0.000	1.000	0.000	
TOTAL KVA		1.150	1.030	0.270	TOTAL KVA	2.450	2.250	TOTAL ESTIMATE KVA	
VOLTS / PHASE		120	120	120	VOLTS / PHASE	208	208	SYSTEM VOLTAGE	
AMPS / PHASE		9.583	8.583	2.250	AMPS / PHASE	6.801	6.248	AMPS	

LIGHTING CONTROL PANEL LCPB		ELB-1	
RELAY ZONE CONTROLLED	CHANNEL	CIRCUIT	
1 CORR 110 LIGHTS	A	ELB-7	
2 STAR #2	A	ELB-9	
3 LOBBY LIGHTS	A	ELB-11	
4 STAR VESTIBULE LIGHTS	A	ELB-8	
5 CANOPY LIGHTS	A	INV B	
6 SOFFIT LIGHTS	B	ELB-13	
7 SPARE RELAY			
8 SPARE RELAY			
NOTES			
A OCC SENSOR ON / SCHEDULED OFF AT 10PM			
B DUSK TILL DAWN WALL CP-B			

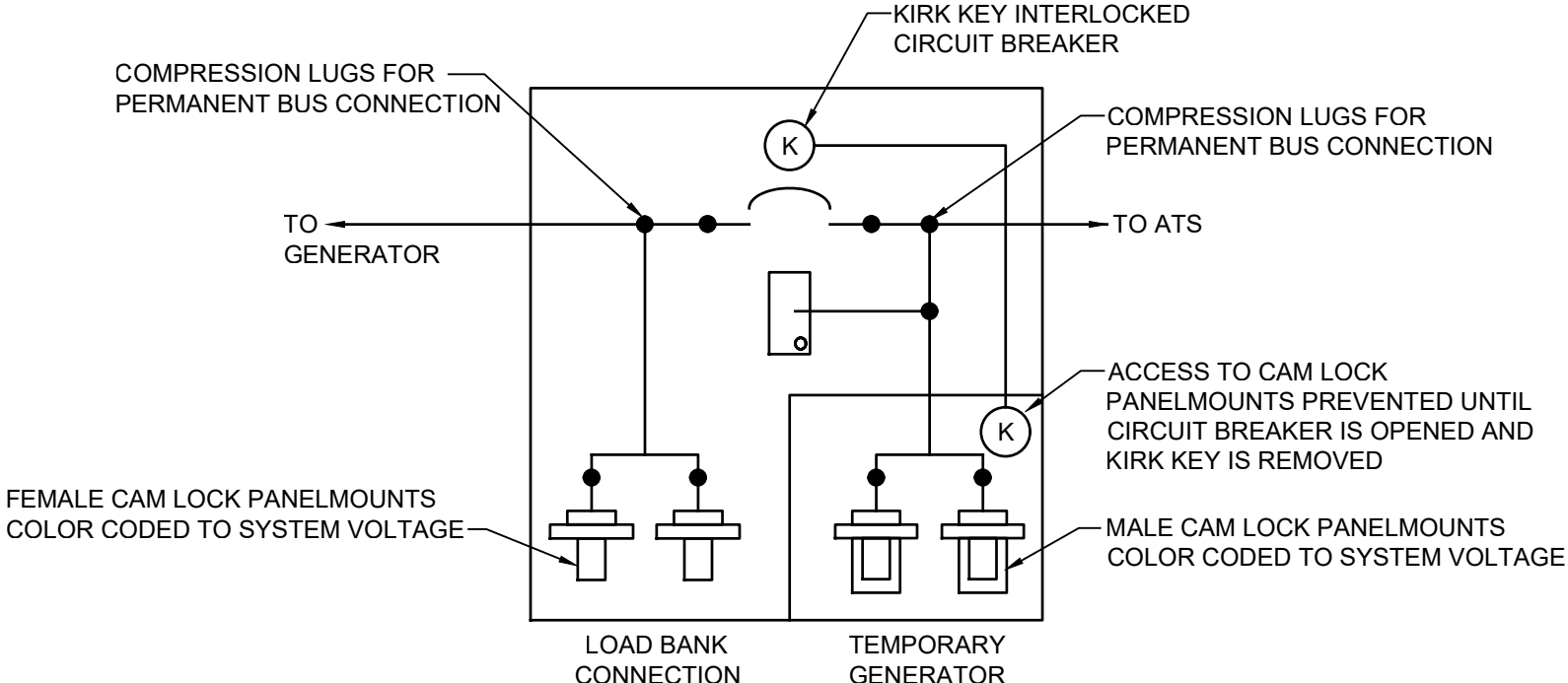
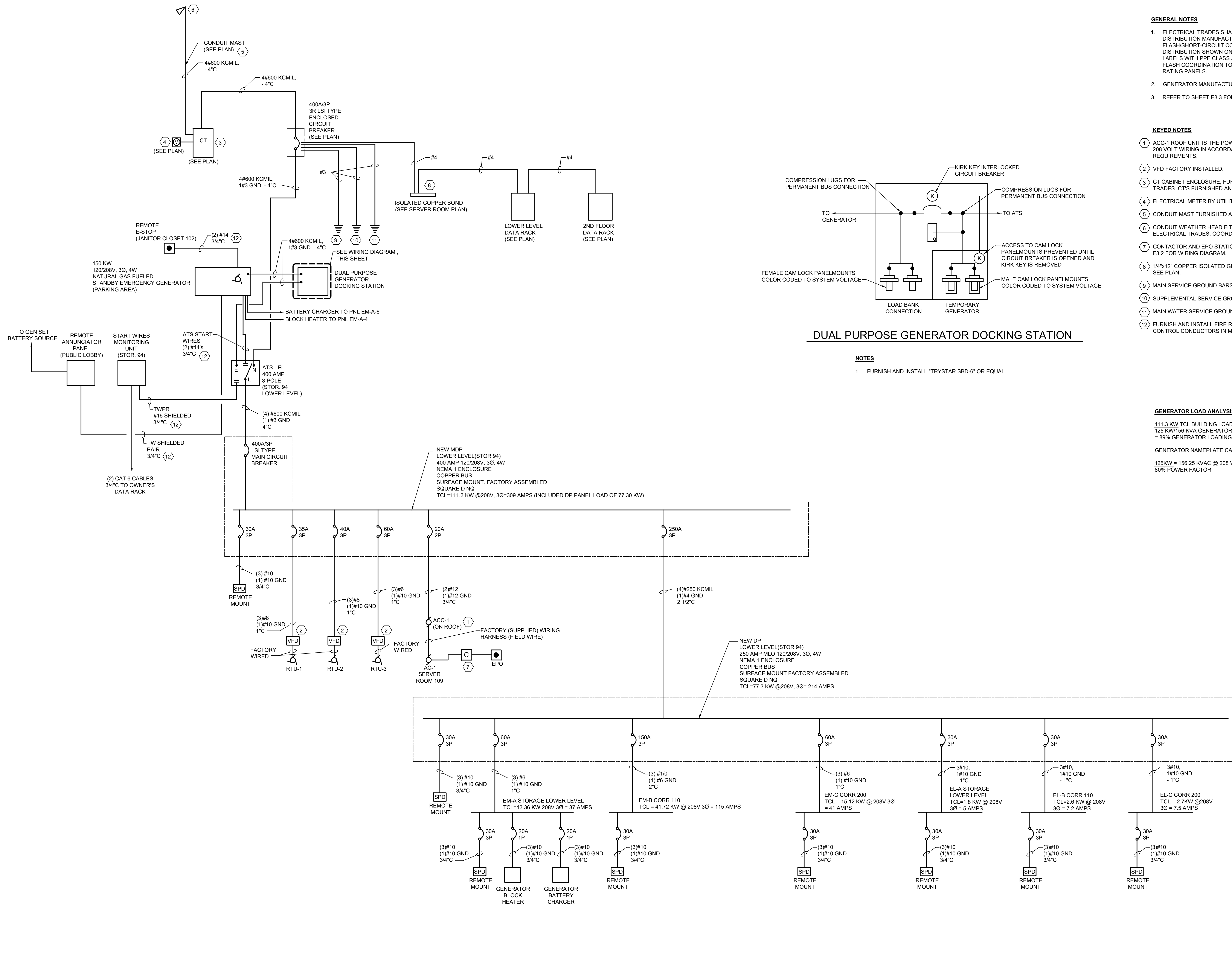
NEW PNL EL-C		MAIN: SIZE & TYPE: 125 A MLO		PANEL LOCATION: CORR 200					
BUS RATING: 125 A		FEEDER SIZE: DP		FEED FROM: DP					
VOLTAGE: 120 / 208 V		MOUNTING: FLUSH		MIN RMS AMPS:					
CKT #	CIRCUIT DESCRIPTION	LOAD (KVA)			CIRCUIT DESCRIPTION			CKT #	
1	LCP-C	A	B	C	POLES	CKT #	POLES	CKT #	
2	LIGHTS	0.500			20A	11	20A	2	
3	LIGHTS	0.060			20A	3	20A	4	
4	LIGHTS	0.230			20A	5	20A	6	
5	LIGHTS	0.040			20A	7	20A	8	
6	LIGHTS		0.740		20A	9	20A	10	
7	LIGHTS				20A	11	20A	12	
8	LIGHTS				20A	13	20A	14	
9	LIGHTS				20A	15	20A	16	
10	LIGHTS				20A	17	20A	18	
11	LIGHTS				20A	19	20A	20	
12	SPARE								
13	SPARE								
14	SPARE								
15	SPARE								
16	SPARE								
17	SPARE								
18	SPARE								
19	SPARE								
20	SPARE								
LOAD SUMMARY		KVA CONNECTED			KVA SUMMARY				
RECEPTACLES	R	0.000	0.000	0.000	TOTAL	0.000	0.000	DEMAND	0.000
LIGHTING	L	0.510	1.070	0.630	LIGHTING	2.210	1.900	2.210	
OTHER	O	0.500	0.000	0.000	OTHER	0.500	0.600	0.300	
EXISTING	E	0.000	0.000	0.000	EXISTING	0.000	1.000	0.000	
TOTAL KVA		1.010	1.070	0.630	TOTAL KVA	2.710	2.510	TOTAL ESTIMATE KVA	
VOLTS / PHASE		120	120	120	VOLTS / PHASE	208	208	SYSTEM VOLTAGE	
AMPS / PHASE		8.417	6.917	5.250	AMPS / PHASE	7.522	6.967	AMPS	

LIGHTING CONTROL PANEL LCPC		CORR 200	
RELAY ZONE CONTROLLED	CHANNEL	CIRCUIT	
1 CORR 200 LIGHTS	A	ELC-5	
2 STAR LIGHTS	A	ELC-7	
3 STAR LIGHTS	A	ELC-11	
4 SPARE RELAY			
5 SPARE RELAY			
6 SPARE RELAY			
7 SPARE RELAY			
8 SPARE RELAY			
NOTES			
A OCC SENSOR ON / SCHEDULED OFF AT 10PM			

NEW PNL EM-A		MAIN: SIZE & TYPE: 225 A MLO		PANEL LOCATION: STOR 34					
BUS RATING: 225 A		FEEDER SIZE: DP		FEED FROM: DP					
VOLTAGE: 120 / 208 V		MOUNTING: FLUSH		MIN RMS AMPS:					
CKT #	CIRCUIT DESCRIPTION	LOAD (KVA)			CIRCUIT DESCRIPTION			CKT #	
1	RECEPTACLE	A	B	C	POLES	CKT #	POLES	CKT #	
2	RECEPTACLE	0.720			20A	1	20A	2	
3	RECEPTACLE		0.540		20A	3	20A	4	
4	RECEPTACLE		0.540		20A	5	20A	6	
5	RECEPTACLE	0.720			20A	7	20A	8	
6	RECEPTACLE		0.360		20A	9	20A	10	
7	RECEPTACLE		1.500		20A	11	20A	12	
8	RECEPTACLE				20A	13	20A	14	
9	RECEPTACLE				20A	15	20A	16	
10	RECEPTACLE				20A	17	20A	18	
11	RECEPTACLE				20A	19	20A	20	
12	RECEPTACLE				20A	21	20A	22	
13	RECEPTACLE				20A	23	20A	24	
14	RECEPTACLE				20A	25	20A	26	
15	RECEPTACLE				20A	27	20A	28	
16	RECEPTACLE				20A	29	20A	30	
17	RECEPTACLE								
18	RECEPTACLE								
19	RECEPTACLE								
20	RECEPTACLE								
21	RECEPTACLE								
22	RECEPTACLE								
23	RECEPTACLE								
24	RECEPTACLE								
25	RECEPTACLE								
26	RECEPTACLE								
27	RECEPTACLE								
28	RECEPTACLE								
29	RECEPTACLE								
30	RECEPTACLE								
LOAD SUMMARY		KVA CONNECTED			KVA SUMMARY				
RECEPTACLES	R	3.660	1.440	2.760	TOTAL	7.660	7.660	DEMAND	7.660
LIGHTING	L	0.000	0.000	0.000	LIGHTING	0.000	1.000	0.000	
HVAC	H	0.000	0.000	0.000	HVAC	0.000	0.950	0.000	
OTHER	O	0.500	2.000	3.000	OTHER	5.500	0.600	3.300	
EXISTING	E	0.000	0.000	0.000	EXISTING	0.000	1.000	0.000	
TOTAL KVA		4.160	3.440	5.760	TOTAL KVA	13.300	11.160	TOTAL ESTIMATE KVA	
VOLTS / PHASE		120	120	120	VOLTS / PHASE	208	208	SYSTEM VOLTAGE	
AMPS / PHASE		34.667	28.667	48.000	AMPS / PHASE	37.083	30.917	AMPS	

KEYED NOTES
 1) PROVIDE CIRCUIT BREAKER LOCKING DEVICE.

NEW PNL EM-B		MAIN: SIZE & TYPE: 225 A MLO		PANEL LOCATION: CORR 110				
BUS RATING: 225 A		FEEDER SIZE: DP		FEED FROM: DP				
VOLTAGE: 120 / 208 V		MOUNTING: FLUSH		MIN RMS AMPS:				
CKT #	CIRCUIT DESCRIPTION	LOAD (KVA)			CIRCUIT DESCRIPTION			CKT #
1	RECEPTACLES	A	B	C	POLES	CKT #	POLES	CKT #
2	RECEPTACLES	0.540			20A	1	20A/2	2
3	RECEPTACLES		0.360		20A	3	20A	4
4	RECEPTACLES		0.720		20A			



DUAL PURPOSE GENERATOR DOCKING STATION

- NOTES**
- FURNISH AND INSTALL 'TRYSTAR SBD-6' OR EQUAL.

- GENERAL NOTES**
- ELECTRICAL TRADES SHALL OBTAIN SERVICES FROM THE ELECTRICAL DISTRIBUTION MANUFACTURER TO PROVIDE ARC FLASH/SHORT CIRCUIT COORDINATION SURVEY FOR THE EMERGENCY DISTRIBUTION SHOWN ON THIS ONE-LINE DIAGRAM. COMPLETE ARC FLASH COORDINATION TO PROPERLY SUPPLY THE COORDINATED AIC RATING PANELS.
 - GENERATOR MANUFACTURER CUMMINS SHALL BE BASE BID.
 - REFER TO SHEET E3.3 FOR EMERGENCY PANEL SCHEDULES.

- KEYED NOTES**
- ACC-1 ROOF UNIT IS THE POWER SUPPLY FOR THE AC-1 UNIT. COMPLETE 208 VOLT WIRING IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
 - VFD FACTORY INSTALLED.
 - CT CABINET ENCLOSURE, FURNISHED AND INSTALLED BY ELECTRICAL TRADES. CT'S FURNISHED AND INSTALLED UTILITY.
 - ELECTRICAL METER BY UTILITY.
 - CONDUIT MAST FURNISHED AND INSTALLED BY THE ELECTRICAL TRADES.
 - CONDUIT WEATHER HEAD FITTING FURNISHED AND INSTALLED BY THE ELECTRICAL TRADES. COORDINATE THIS WORK WITH THE UTILITY.
 - CONTACTOR AND EPO STATION FOR SERVER ROOM AC-1 SHUTDOWN. SEE E3.2 FOR WIRING DIAGRAM.
 - 1/4"x12" COPPER ISOLATED GROUND BAR FOR SERVER ROOM GROUNDING. SEE PLAN.
 - MAIN SERVICE GROUND BARS.
 - SUPPLEMENTAL SERVICE GROUND.
 - MAIN WATER SERVICE GROUND.
 - FURNISH AND INSTALL FIRE RATED TYPE LOW-VOLTAGE GENERATOR CONTROL CONDUCTORS IN METAL CONDUIT.

GENERATOR LOAD ANALYSIS

111.3 KW TCL BUILDING LOAD
 125 KW/156 KVA GENERATOR
 = 85% GENERATOR LOADING

GENERATOR NAMEPLATE CAPACITY

125KW = 156.25 KVAC @ 208 VOLT = 434 AMP
 80% POWER FACTOR

EMERGENCY GENERATOR ONE-LINE DIAGRAM

MACMILLAN ASSOCIATES CONSULTING ENGINEERS
 74 E. EAST WIND AND STREET • BAY CITY, MICHIGAN 49706
 (517) 692-1200 FAX (517) 692-1201

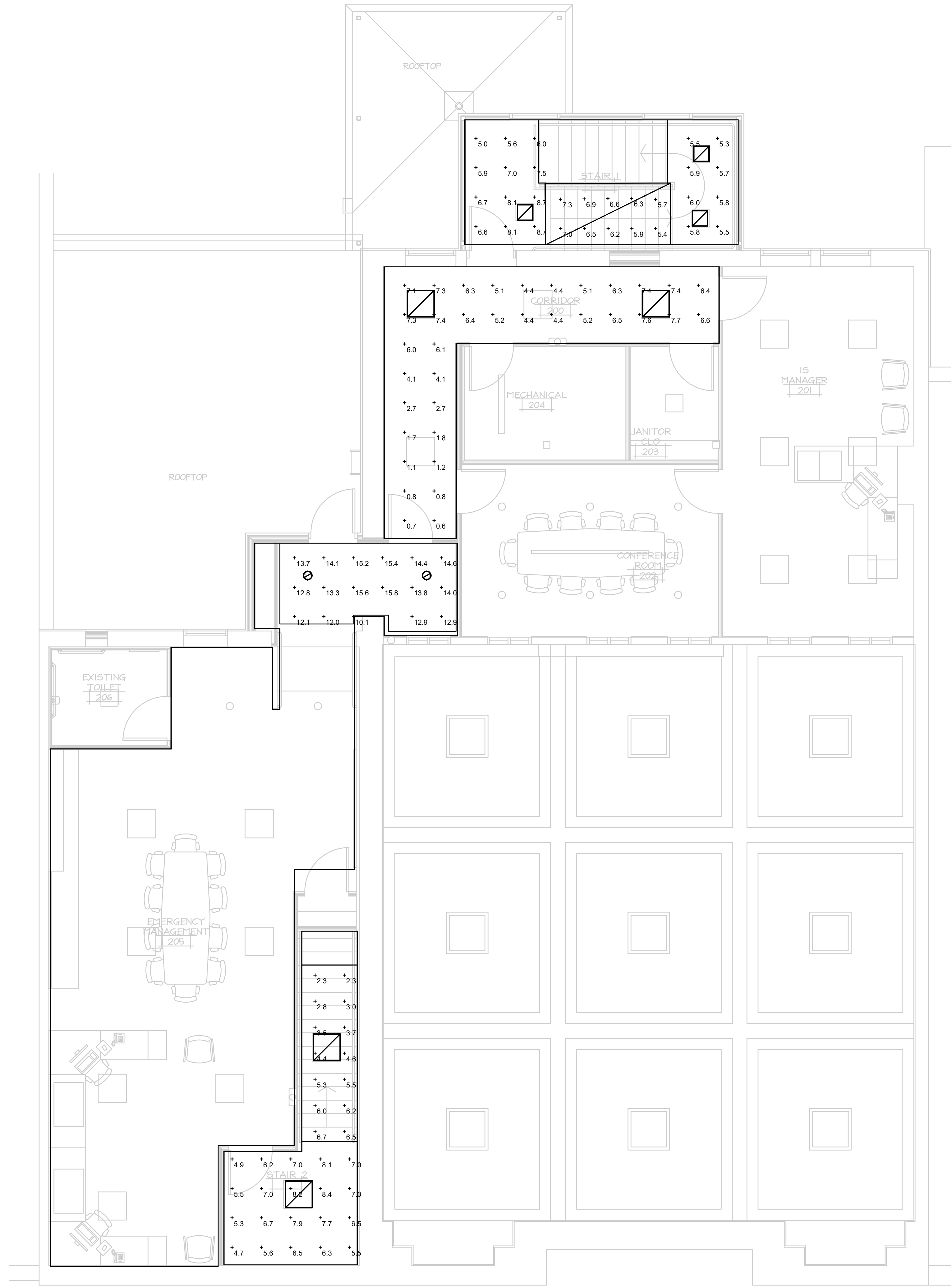
REVISION/ISSUANCE	DATE	BY	REASON
1	05/26/23	JMF	BID DOCUMENTS

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI

NJB ARCHITECTS INC.

105+ Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax

www.njbarchitects.com



SECOND FLOOR - EMERGENCY LIGHTING POINT BY POINT PLAN
 1/4"=1'-0"

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Corridor 200 EM	+	4.7 fc	7.7 fc	0.6 fc	12.8:1	7.8:1
Stair 1 EM	+	5.7 fc	6.0 fc	5.3 fc	1.1:1	1.1:1
Stair 1 EM	+	6.8 fc	7.3 fc	6.3 fc	1.2:1	1.1:1
Stair 1 EM	+	5.9 fc	6.5 fc	5.4 fc	1.2:1	1.1:1
Stair 1 EM	+	7.0 fc	8.7 fc	5.0 fc	1.7:1	1.4:1
Stair 2 EM	+	6.6 fc	8.4 fc	4.7 fc	1.8:1	1.4:1
Stair 2 EM	+	4.5 fc	6.7 fc	2.3 fc	2.9:1	2.0:1
Calc Zone #1	+	13.7 fc	15.8 fc	10.1 fc	1.6:1	1.4:1

Schedule									
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
	AE	4	Lithonia Lighting	EPANL 2X2 4800LM 80CRI 40K	EPANL 2x2, 4800 Nominal Lumens, 80 CRI, 4000K CCT	1	4843	0.2	44.6
	CE	3	Juno Lighting	JSFSQ 14IN 18LM 40K 90CRI 120 FRPC WH	14" Square Edgellit (Slimform) Surface Mount, 4000K, 90CRI, 120V	1	1932	0.45	20.4
	DE	2	Lithonia Lighting	LBR8 AL03 (2000LM) SWW1 (4000K) AR LSS WD 80CRI	8 INCH LBR DOWNLIGHT 2000LM 4000K CLEAR SEMI-SPECULAR WIDE 80 CRI	1	2341	0.35	25.03

MACMILLAN ASSOCIATES CONSULTING ENGINEERS
 714 EAST WILSON ANDERSON BLVD. • RAY CITY, MICHIGAN 48766
 (517) 337-2200 FAX (517) 337-1999 WWW.MACMILLAN.COM

REV #	REVISION/DESCRIPTION	DATE	DRAWN BY	REVIEWED BY
1	BID DOCUMENTS	05/26/23	RLM	JWF

RENOVATIONS TO PEOPLE'S STATE BANK FOR
TUSCOLA COUNTY OFFICES
 171 N STATE ST
 CARO, MI
SECOND FLOOR - EMERGENCY LIGHTING PT BY PT PLAN

NJIB ARCHITECTS INC.
 105 1/2 Main Street
 Flushing, Michigan 48433
 810-659-7118 voice
 810-659-7224 fax
 www.njibarchitects.com