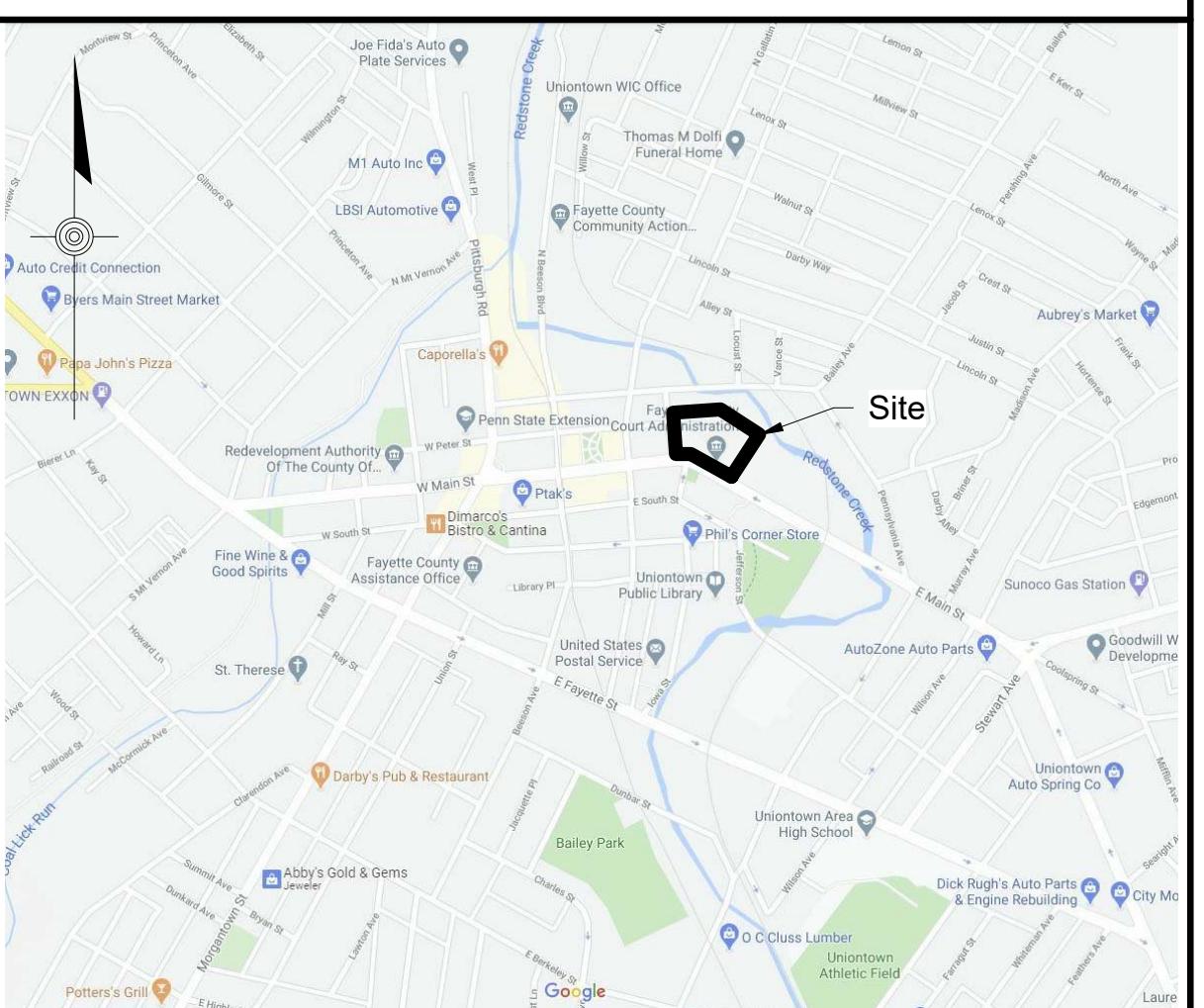


## INDEX OF DRAWINGS

COVER G000	COVER SHEET
ARCHITECTURAL	
A011	DEMOLITION PLAN
A012	CEILING DEMOLITION PLAN
A111	FLOOR PLAN
A151	REFLECTED CEILING PLAN
A201	INTERIOR ELEVATIONS
A202	INTERIOR ELEVATIONS
A301	SECTIONS
A302	SECTIONS
A401	ENLARGED RESTROOM PLAN & DETAILS
PLUMBING	
P100	PARTIAL FIRST FLOOR PLAN PLUMBING
ELECTRICAL	
E000	SYMBOLS, ABBREVIATIONS, GENERAL NOTES & DETAILS
E100	OVERALL AND PARTIAL FIRST FLOOR PLANS ELECTRICAL



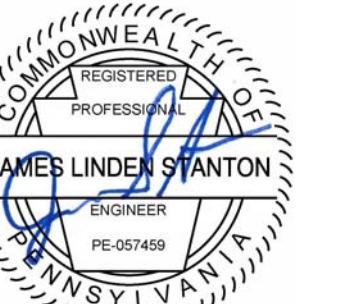
## LOCATION MAP

GOOGLE MAPS SCALE: N.T.S.

# FAYETTE COUNTY COURTHOUSE CONFERENCE ROOM EXPANSION

PREPARED FOR  
**FAYETTE COUNTY BOARD OF COMMISSIONERS**  
61 EAST MAIN STREET  
UNIONTOWN, PA 15401

AUGUST 2020



PREPARED BY

**McMILLEN**  
ENGINEERING INC  
civil engineers • land surveyors

115 Wayland Smith Drive, Uniontown, PA 15401  
Phone: 724-439-8110  
Email: info@mcmilleng.com

### 2015 INTERNATIONAL EXISTING BUILDING CODE Chapter 8, Alterations - Level 2

#### SECTION 801 - GENERAL

801.2 Alteration Level 1 Compliance.

#### SECTION 805 - MEANS OF EGRESS

805.3 Number of Exits: 2  
805.4.1.1 Occupant Load and Travel Distance:  
Total Occupant Load: 50 (356 SF at 7 P/P)  
Actual Travel Distance: 55'-4" (End of Corridor)

#### SECTION 807 - STRUCTURAL

Not Applicable - Existing Structural Condition to  
Remain. Non-Bearing Walls Only.

#### SECTION 803 - BUILDING ELEMENTS AND MATERIALS

803.2 Vertical Openings: Not Applicable.

#### SECTION 804 - FIRE PROTECTION

804.1.1 Corridor Ratings:  
1-Hour Fire Partition Provided.

804.2 Automatic Sprinkler Systems;

No Existing Sprinkler System.

No Proposed Sprinkler System.

804.2.1 Group B;

Entire Building is for County Use Agencies.

804.4 Fire Alarm and Detection;

Localized Fire Detection Provided.

No Existing Fire Alarm System.

#### SECTION 806 - ACCESSIBILITY

806.1 General; Accessibility Requirements  
Shall Meet ANSI A117.1-2009.

#### SECTION 808 - ELECTRICAL

See Electrical Drawings.

#### SECTION 809 - MECHANICAL

See Mechanical Drawings.

#### SECTION 810 - PLUMBING

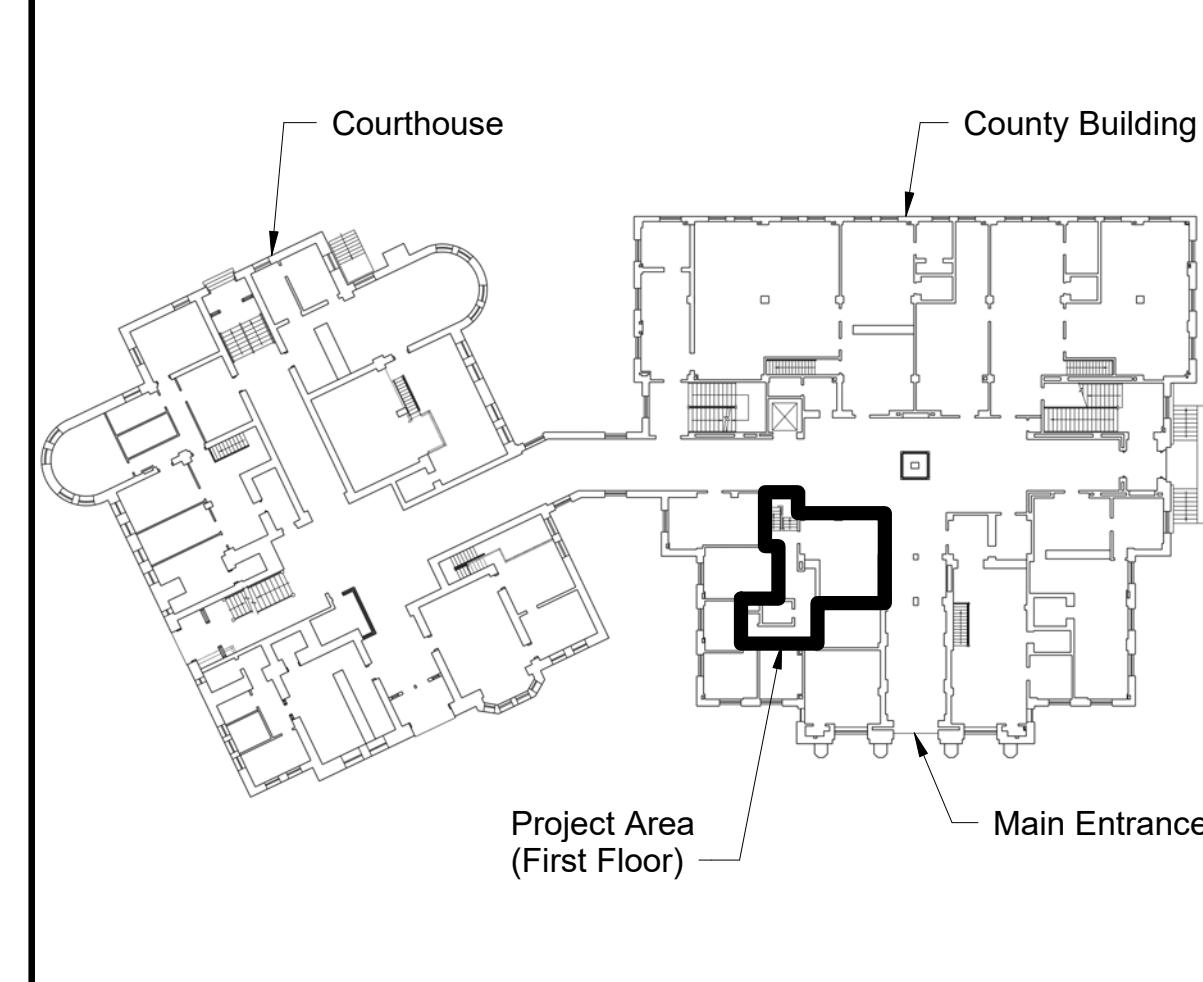
See Plumbing Drawings.

#### SECTION 811 - ENERGY CONSERVATION

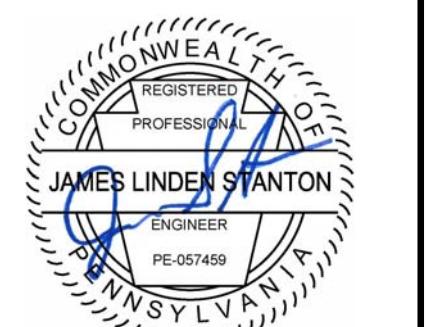
811.1 Minimum Requirements; Exterior walls  
Insulated.

## ABBREVIATIONS

@	At	HM	Hollow Metal
ACT	Acoustic Ceiling Tile	HR	Hour
A.F.F	Above Finished Floor	HVAC	Heating, Ventilating, and Air Conditioning
ALUM.	Aluminum	INSUL.	Insulation
ANOD.	Anodized	INT	Interior
B/	Bottom of	LOD	List of Drawings
CJ	Control Joint	MAX.	Maximum
CLG.	Ceiling	M.O.	Masonry Opening
CMU	Concrete Masonry Unit	MECH	Mechanical
COL	Column	MIN.	Minimum
COMPRESS.	Compressible	MTL.	Metal
CONC.	Concrete	N.I.C.	Not in Contact
CONT.	Continuous	NO.	Number
CPT	Carpet	N.T.S.	Not to Scale
C.T.	Ceramic Tile	O.C.	On Center
DEMO	Demolish or Demolition	OH	Opposite Hand
DIA.	Diameter	OZ.	Ounce
DIM	Dimension	PLUMB.	Plumbing
DIMS	Dimensions	PLY WD	Plywood
DN	Down	PT	Pressure Treated
DR.	Door	PVC	Polyvinyl Chloride
DWG	Drawing	RCP	Reflected Ceiling Plan
EA.	Each	RD	Roof Drain
EIFS	Exterior Insulation Finish System	REQ'D	Required
E.J	Expansion Joint	R.O.	Rough Opening
ELEV	Elevation	SIM.	Similar
ELEC	Electrical	SPEC	Specified or Specification
EPDM	Ethylene Propylene Diene M-Class (Roofing)	STC	Sound Transmission Coefficient
EQ.	Equal	STL	Steel
EXIST.	Existing	STRUCT	Structure or Structural
FD	Floor Drain	T/	Top of
FE	Fire Extinguisher Cabinet	TELE	Telephone
FLR.	Floor	TLT	Toilet
FRT	Fire Rated / Pressure Treated	TYP.	Typical
FV	Field Verify	UNO	Unless Noted Otherwise
GA	Gauge	W/	With
GALV.	Galvanized	WD	Wood
GWB	Gypsum Wall Board		



## KEY MAP



JAMES LINDEN STANTON  
ENGINEER  
PE-05749

O-2020-0620-015 Building 2020-015 Floor Plan M1

REVISIONS	
NO.	DESCRIPTION

**FAYETTE COUNTY COURTHOUSE**  
**CONFERENCE ROOM EXPANSION**  
FAYETTE COUNTY BOARD OF  
COMMISSIONERS  
CITY OF UNIONTOWN, FAYETTE COUNTY  
PENNSYLVANIA

BOOK NO.	N/A	JOB NO.	2020-105
DRAWN		CHECKED	
RH	8/17/20	JS	8/17/20
DESIGN		APPROVED	
RH	8/17/20	TMJR	8/17/20

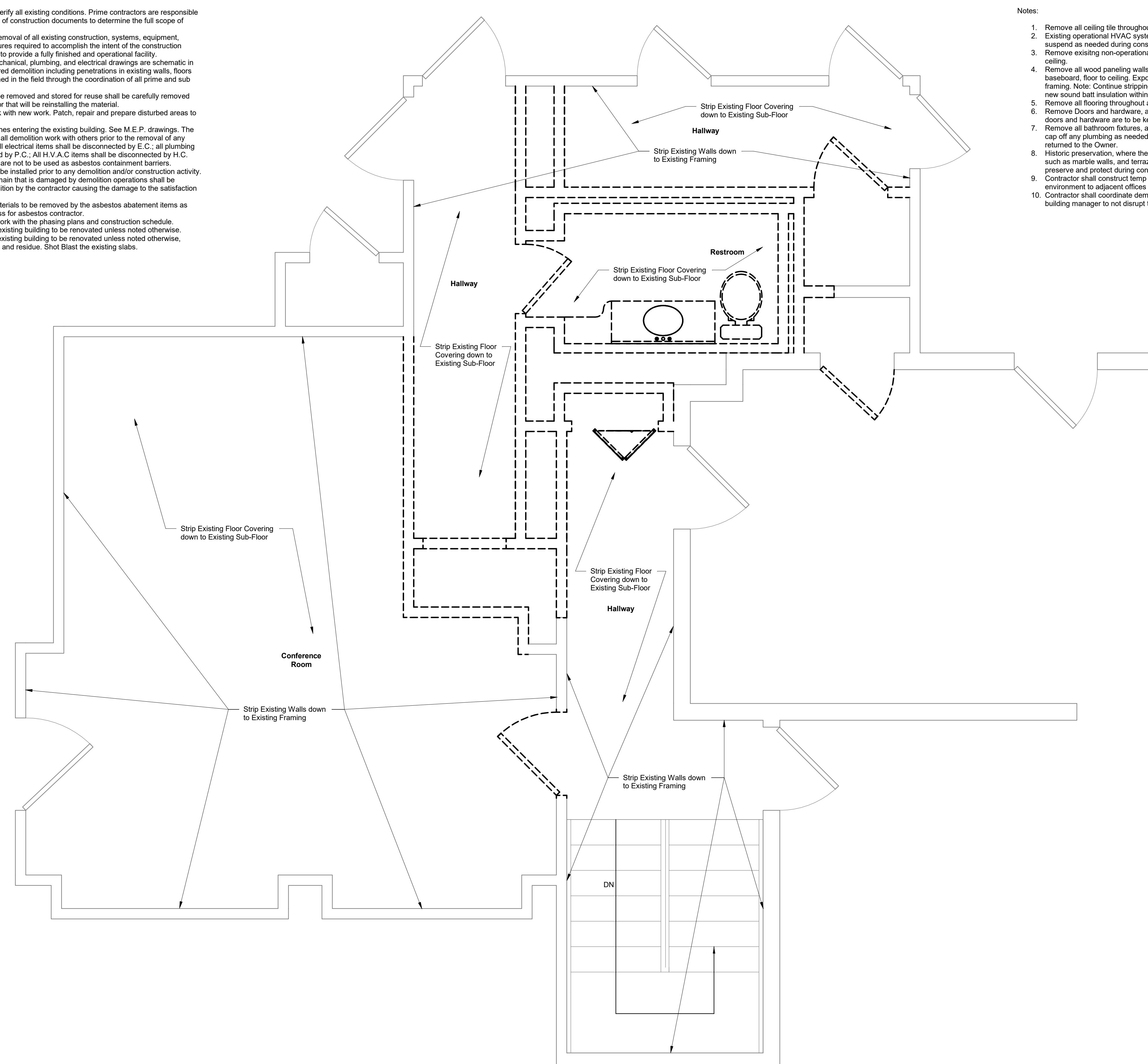
SCALE  
As indicated

Sheet Number

**A011**

GENERAL DEMOLITION NOTES:

1. Prime contractors to field verify all existing conditions. Prime contractors are responsible to review and complete set of construction documents to determine the full scope of demolition required.
2. Demolition work includes removal of all existing construction, systems, equipment, furnishings, and site structures required to accomplish the intent of the construction documents and necessary to provide a fully finished and operational facility.
3. Do not scale drawings, mechanical, plumbing, and electrical drawings are schematic in nature. The extent of required demolition including penetrations in existing walls, floors and roofs shall be determined in the coordination of all prime and sub contractors.
4. All material scheduled to be removed and stored for reuse shall be carefully removed and stored by the contractor that will be reinstalling the material.
5. Coordinate demolition work with new work. Patch, repair and prepare disturbed areas to receive finish materials.
6. Field verify existing utility lines entering the existing building. See M.E.P. drawings. The contractor shall coordinate all demolition work with others prior to the removal of any material, equipment, etc. All electrical items shall be disconnected by E.C.; all plumbing items shall be disconnected by P.C.; All H.V.A.C items shall be disconnected by H.C.
7. Traffic and/or dust barriers are not to be used as asbestos containment barriers.
8. Existing construction to remain that is damaged by demolition operations shall be repaired to its original condition by the contractor causing the damage to the satisfaction of the design professional.
9. All asbestos containing materials to be removed by the asbestos abatement items as necessary to provide access for asbestos contractor.
10. Coordinate all demolition work with the phasing plans and construction schedule.
11. Remove all ceilings in the existing building to be renovated unless noted otherwise.
12. Remove all flooring in the existing building to be renovated unless noted otherwise, including all glue, adhesive and residue. Shot Blast the existing slabs.



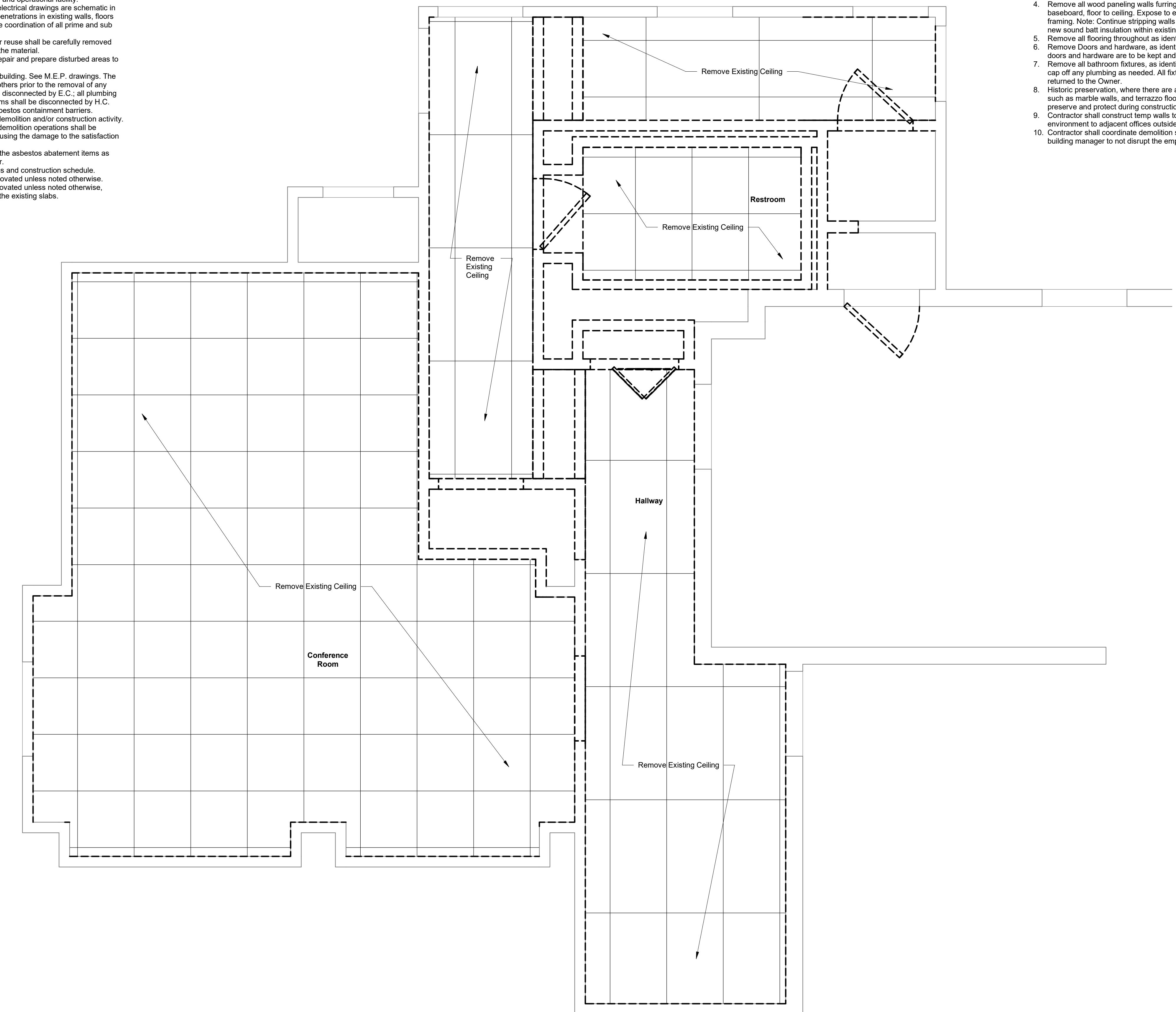
FIRST FLOOR DEMOLITION PLAN  
1/2" = 1'-0"

Notes:

1. Remove all ceiling tiles throughout, as identified on the plans.
2. Existing operational HVAC system to remain in place, suspend as needed during construction.
3. Remove existing non-operational HVAC equipment above the ceiling.
4. Remove all wood paneling walls, furring strips, drywall, baseboard, floor to ceiling. Expose to existing wall stud framing. Note: Continue stripping walls as required to install new sound batt insulation within existing walls.
5. Remove all flooring throughout as identified on the plans.
6. Remove Doors and hardware, as identified on the plans. All doors and hardware are to be kept and returned to the Owner.
7. Remove all bathroom fixtures, as identified on the plans and cap off any plumbing as needed. All fixtures are to be kept and returned to the Owner.
8. Historic preservation, where there are any existing materials such as marble walls, and terrazzo flooring contractor shall preserve these materials.
9. Contractor shall construct temp. walls to keep a dust free environment to adjacent offices outside the scope of work.
10. Contractor shall coordinate demolition schedule with the building manager to not disrupt the employees work day.

GENERAL DEMOLITION NOTES:

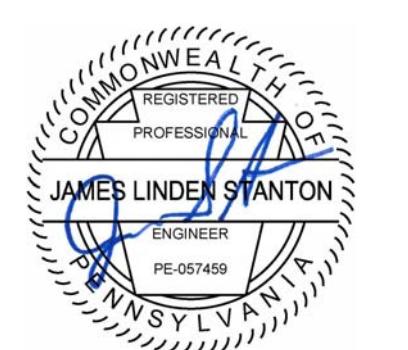
1. Prime contractors to field verify all existing conditions. Prime contractors are responsible to review and complete set of construction documents to determine the full scope of demolition.
2. Demolition work includes removal of all existing construction, systems, equipment, furnishings, and site structures required to accomplish the intent of the construction.
3. Do not scale drawings, mechanical, plumbing, and electrical drawings are schematic in nature. The extent of required demolition including penetrations in existing walls, floors and roofs shall be determined in the field through the coordination of all prime and sub contractors.
4. All material scheduled to be removed and stored for reuse shall be carefully removed and stored by the contractor that will be reinstalling the material.
5. Coordinate demolition work with new work. Patch, repair and prepare disturbed areas to receive finish materials.
6. Field verify all utility lines entering the existing building. See M.E.P. drawings. The contractor shall coordinate all demolition work with others prior to the removal of any material, equipment, etc. All electrical items shall be disconnected by E.C.; all plumbing items shall be disconnected by P.C.; All H.V.A.C items shall be disconnected by H.C.
7. Traffic and/or dust barriers are not to be used as asbestos containment barriers.
8. Traffic and dust barriers to be installed prior to any demolition and/or construction activity.
9. Existing construction to remain that is damaged by demolition operations shall be restored to its original condition by the contractor causing the damage to the satisfaction of the design professional.
10. All asbestos containing materials to be removed by the asbestos abatement items as necessary to provide access for asbestos contractor.
11. Coordinate all demolition work with the phasing plans and construction schedule.
12. Remove all fixtures in the existing building to be removed unless noted otherwise.
13. Remove all flooring in the existing building to be demolished unless noted otherwise, including all glue, adhesive and residue. Shot Blast the existing slabs.



REFLECTED CEILING PLAN  
1/2" = 1'-0"

Notes:

1. Remove all ceiling tile throughout, as identified on the plans.
2. Existing operational HVAC system to remain in place, suspend as needed during construction.
3. Remove existing non-operational HVAC equipment above the ceiling.
4. Remove all wood paneling walls, furring strips, drywall, baseboard, floor to ceiling. Expose to existing wall stud framing. Note: Continue stripping walls as required to install new sound dead insulation within existing walls.
5. Remove all fixtures throughout as identified on the plans.
6. Remove Doors and hardware, as identified on the plans.
7. Remove all bathroom fixtures, as identified on the plans and cap off any plumbing as needed. All fixtures are to be kept and returned to the Owner.
8. Historic preservation, where there are any existing materials such as marble walls, and terrazzo flooring contractor shall preserve and protect during construction
9. Contractor shall construct temp walls to keep a dust free environment to adjacent offices outside the scope of work.
10. Contractor shall coordinate demolition schedule with the building manager to not disrupt the employees work day.



REVISIONS	
NO.	DESCRIPTION
	DATE BY

O-2020-06205-051Building2020-105-Floor Plan M1

**FAYETTE COUNTY COURTHOUSE**  
**CONFERENCE ROOM EXPANSION**  
FAYETTE COUNTY BOARD OF  
COMMISSIONERS  
CITY OF UNIONTOWN, FAYETTE COUNTY  
PENNSYLVANIA

PREPARED FOR  
PENNSYLVANIA

**CEILING  
DEMOLITION  
PLAN**

BOOK NO.	N/A	JOB NO.	2020-105
DRAWN	8/17/20	CHECKED	JS
RH			8/17/20

DESIGN

RH

APPROVED

TMJR

8/17/20

SCALE

As indicated

SHEET NUMBER

A012

- The Prime Contractor shall Field Verify all Existing Conditions prior to start of Work, including all areas where Demolition and New Work are to be performed. Notify the Design Professional immediately of any variations and/or discrepancies of Existing Conditions.
- All Demolition Work shall be coordinated with New Work, and may exceed Work indicated or specified.
- The Prime Contractor shall be responsible for all repairing and patching to match of disturbed areas and surfaces where work was performed by their work forces, or as otherwise noted.
- The Prime Contractor shall repair and patch work of disturbed areas and surfaces to match existing surfaces in texture and appearance, also align abutting new and existing surfaces and provide a smooth and even transition.
- The Prime Contractor is responsible for the coordination of their Work for sizes and locations of all openings and penetrations in walls, partitions, floors, and roofs. The Prime Contractor shall be responsible for providing all necessary information and components.
- The Prime Contractor shall furnish temporary shoring and/or supports to ensure structural integrity of the Work.
- The Prime Contractor shall be responsible for the protection of all uncovered work and equipment both new and existing from the elements.
- When finished surfaces are cut and a smooth transition with new work is not possible, terminate existing surface along a straight line at a natural line of division. Contact the Design Professional for review prior to proceeding.
- Where the removal of partitions or walls results in adjacent spaces becoming one, rework floors, walls, and ceiling planes without breaks, steps, and bulkheads.
- In the event of a conflict between Work on the Demolition Drawings and Work described on the Construction Drawings the Prime Contractor shall confirm with the Design Professional, the Scope of Demolition Work prior to the start of Demolition.
- All exposed metal surfaces shall be painted unless otherwise noted.
- The Prime Contractor is responsible for preparing surface to receive finish as part of their Work.
- The Contractor shall coordinate with the Owner and Design Professional the disposition of all existing material to be salvaged during Demolition Work.
- All floors having floor drains shall slope toward drains a maximum of 5% and a minimum of 2%.
- All fixtures, devices, electrical items, etc. shall be protected by the respective contractor during surface coating process. Remove devices prior to coating and reapply where possible.
- The Prime Contractor shall be responsible for all fire rated partitions, walls and floors as part of the Work, see Code Sheets and Floor Plans for location of fire rated construction.
- Substantial barriers shall be installed to segregate work area from occupants of the building. All substantial barriers shall have an access door lockable from outside of the construction area.
- Dust barriers may be used in lieu of substantial barriers where approved by the Owner and Design Professional.
- Any material that is to be removed and stored for reuse shall be removed and stored by the contractor that will be reinstalling the material.
- The Contractor shall be responsible for protecting, patching and repairing existing surfaces where are damaged, lifted, discolored or showing other imperfections.
- Provide transition strip between different flooring materials as specified.
- Refer to room finish schedule for interior window treatments.
- Refer to reflected ceiling plans for location of bulkheads, see ceiling details.
- Remove all fire extinguisher cabinets and patch to match opening recesses.
- Provide transition strip between different flooring materials as specified.
- Fill opening w/ material to match existing adjacent wall, prepare wall for new finish, waterproof walls below grade.
- Protect existing terrazzo floor with old carpet or other suitable covering.
- Patch and repair terrazzo to match existing at all new openings and revised adjacent surfaces.

#### Wall Legend

Existing Wall - Install Batt Insulation and 5/8" Gypsum Board

3 5/8" Metal Stud with Batt Insulation and 5/8" Gypsum Board on One Side

3 5/8" Metal Stud with Batt Insulation and 5/8" Gypsum Board on Both Sides

6" Metal Stud with Batt Insulation and 5/8" Gypsum Board on Both Sides

Existing Wall - Install Batt Insulation and 5/8" Gypsum Board

3 5/8" Metal Stud with Batt Insulation and 5/8" Gypsum Board on One Side

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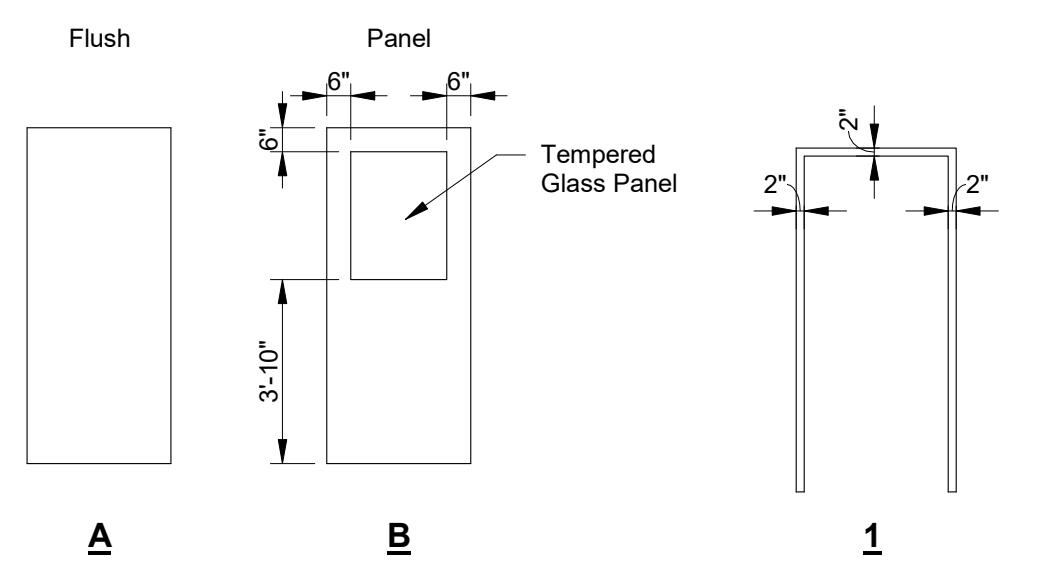
6" Metal Stud with Batt Insulation and 5/8" Gypsum Board on Both Sides

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6" Metal Stud with Batt Insulation and 5/8" Gypsum Board on Both Sides

Door Schedule											
Doors				Frames							
Door Number	Fire Rating	Pair	Width	Height	Thickness	Door Type	Door Material	Frame Type	Frame Material	Hardware Set	Comments
A101.1			2'-6"	7'-0"	1 3/4"	A	WD	1	HM		2
A102.1			2'-0"	7'-0"	1 3/4"	A	WD	1	HM		
A103.1			3'-0"	7'-0"	1 3/4"	B	WD	1	HM		2



#### DOOR SCHEDULE LEGEND

HM Hollow Metal  
ST Steel  
WD Wood

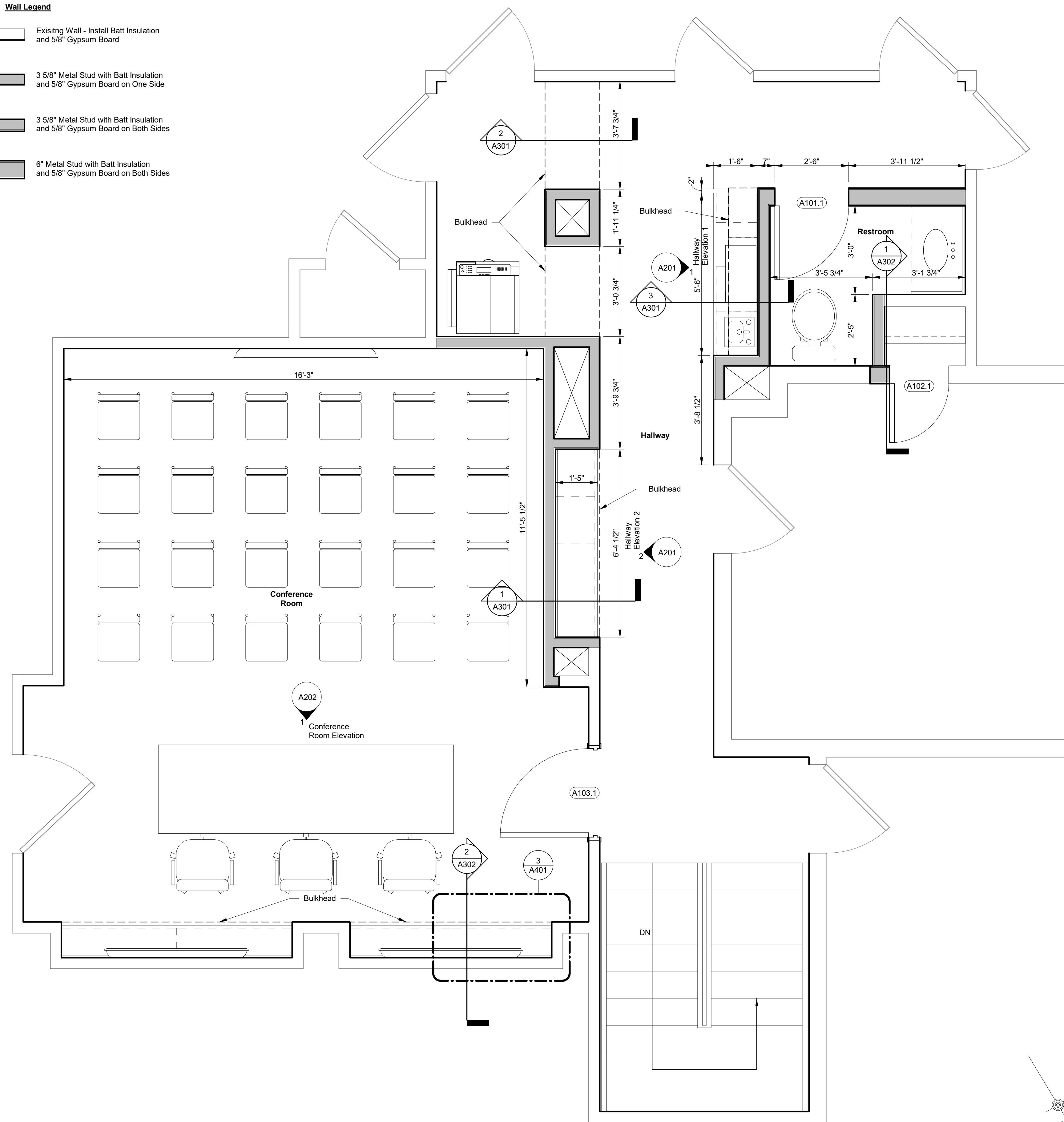
PR Pair of Doors

1/2 HR 30 Minute (Half-Hour) Rated  
1 HR One Hour Rated  
2 HR Two Hour Rated

- Existing Door, No Scheduled Work.
- Insulated Door (STC).
- (2) 3'-0" Wide Door Panels.

**Hardware Specifier Notes**

- A. Nickel Plated Finish.
- B. Passage Set.
- C. Passage Set with Keypad Dead Bolt.
  - a. Falcon Dane Combo.
- D. Privacy Lock Set.
- E. Closer.
- F. Mop Plate.
- G. Sliding Closet Door with ADA Approved Hardware.



Room Finish Schedule								
Room No.	Name	Floor	Base	North	East	South	West	Comments
A101	Conference Room	F5	B1	W2	W2	W2	W2	
A102	Restroom	F2	B2	W1/W3	W1/W3	W1/W3	W1/W3	1
A103	Hallway	F5	B1	W1	W1	W1	W1	

#### ROOM FINISH LEGEND

FLOOR:  
F1 - Carpet (Tile)

F2 - LCT

F3 - Unfinished

F4 - Existing, No Scheduled Work.

F5 - Laminate Wood

#### COMMENTS

- Provide ceramic tile wainscot at 48" above finished floor.

#### FIRST FLOOR PLAN

1/2" = 1'-0"

**FAYETTE COUNTY COURTHOUSE**  
**CONFERENCE ROOM EXPANSION**  
PREPARED FOR  
FAYETTE COUNTY COMMISSIONERS  
CITY OF UNIONTOWN, PENNSYLVANIA

**FLOOR PLAN**  
BOOK NO. N/A JOB NO. 2020-105  
DRAWN BY RH DATE 8/17/20 CHECKED BY JS DATE 8/17/20  
DESIGN BY RH APPROVED BY TMJR DATE 8/17/20  
SCALE As indicated

As indicated

Sheet Number A11





COMMONWEALTH OF PENNSYLVANIA  
REGISTERED PROFESSIONAL ENGINEER  
JAMES LINDEN STANTON  
PE-05749

115 Wayland Smith Drive, Uniontown, PA 15401

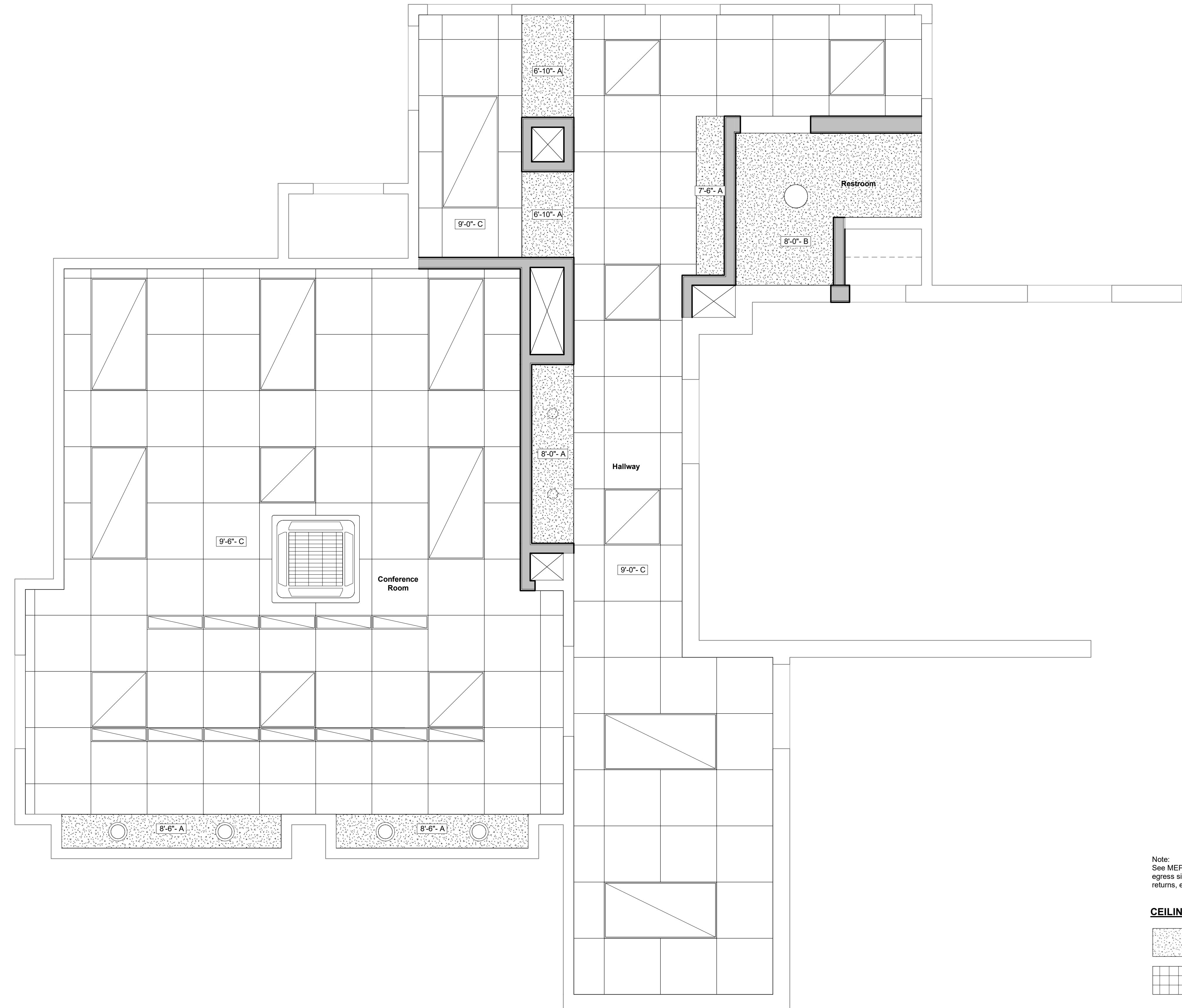
Phone: 724-439-8110

Email: info@mcmilleng.com

REVISIONS			
NO.	DESCRIPTION	DATE	BY

O-20200620-051Building2020-105-FloorPlan01

**FAYETTE COUNTY COURTHOUSE**  
**CONFERENCE ROOM EXPANSION**  
**COMMISSIONERS**  
PREPARED FOR  
CITY OF UNIONTOWN, FAYETTE COUNTY  
PENNSYLVANIA



REFLECTED CEILING PLAN  
1/2" = 1'-0"

Note:  
See MEP's for lighting, fire protection, egress signage, HVAC supply and returns, etc.

CEILING LEGEND

A: Gypsum Wall Board  
B: MR Gypsum Wall Board

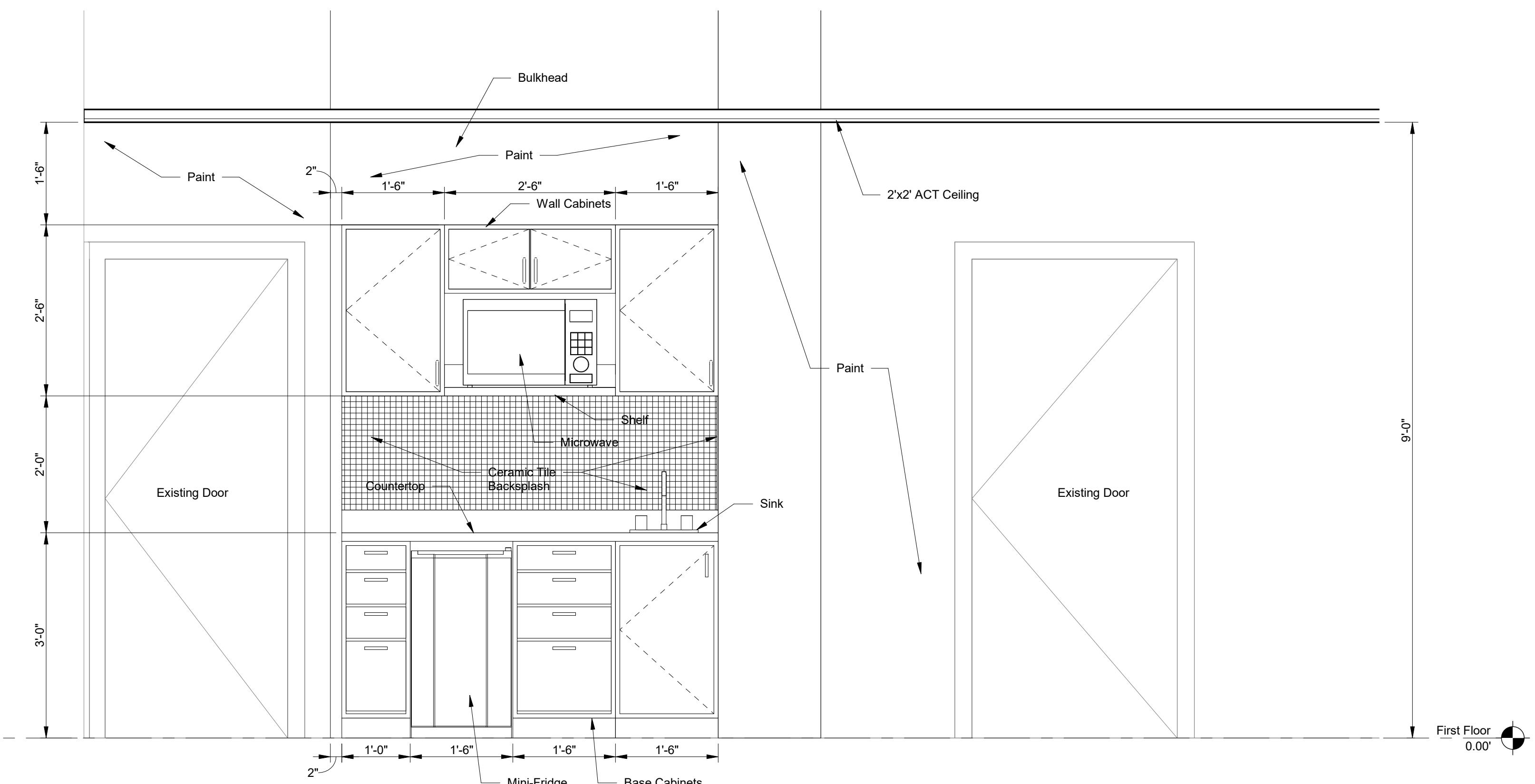
C: 2x2' A.C.T.

BOOK NO.	N/A	JOB NO.	2020-105
DRAWN		CHECKED	
DESIGN		APPROVED	
SCALE			

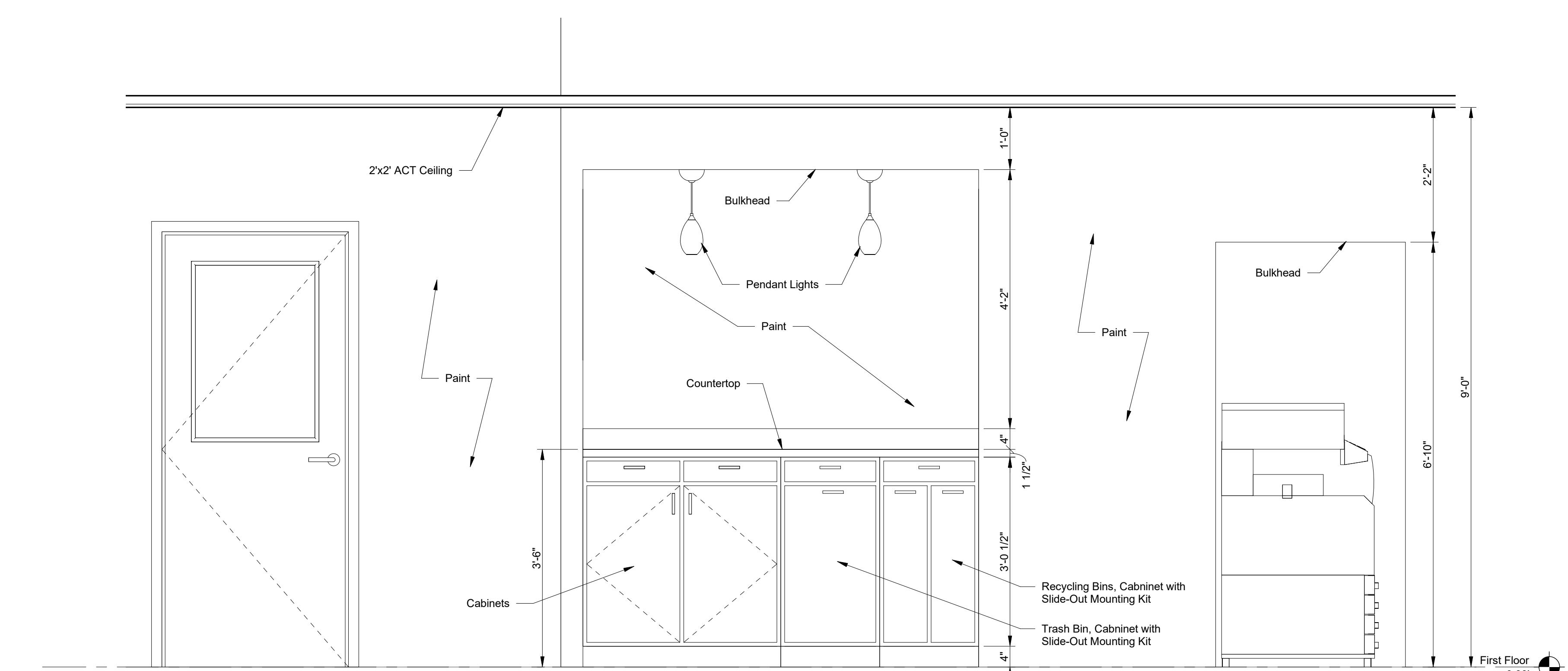
As indicated

SHEET NUMBER

**A151**



① Hallway Elevation 1  
3/4" = 1'-0"



② Hallway Elevation 2  
3/4" = 1'-0"



REVISIONS		DATE	BY
NO.	DESCRIPTION		

O-20200620-05Building2020-105-FloorPlanM1

**FAYETTE COUNTY COURTHOUSE**  
**CONFERENCE ROOM EXPANSION**  
**FAYETTE COUNTY BOARD OF**  
**COMMISSIONERS**  
CITY OF UNIONTOWN, FAYETTE COUNTY  
PENNSYLVANIA

PREPARED FOR  
FAYETTE COUNTY BOARD OF  
COMMISSIONERS

BOOK NO.	N/A	JOB NO.	2020-105
DRAWN		CHECKED	
RH	8/17/20	JS	8/17/20
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RH	8/17/20	TMJR	8/17/20

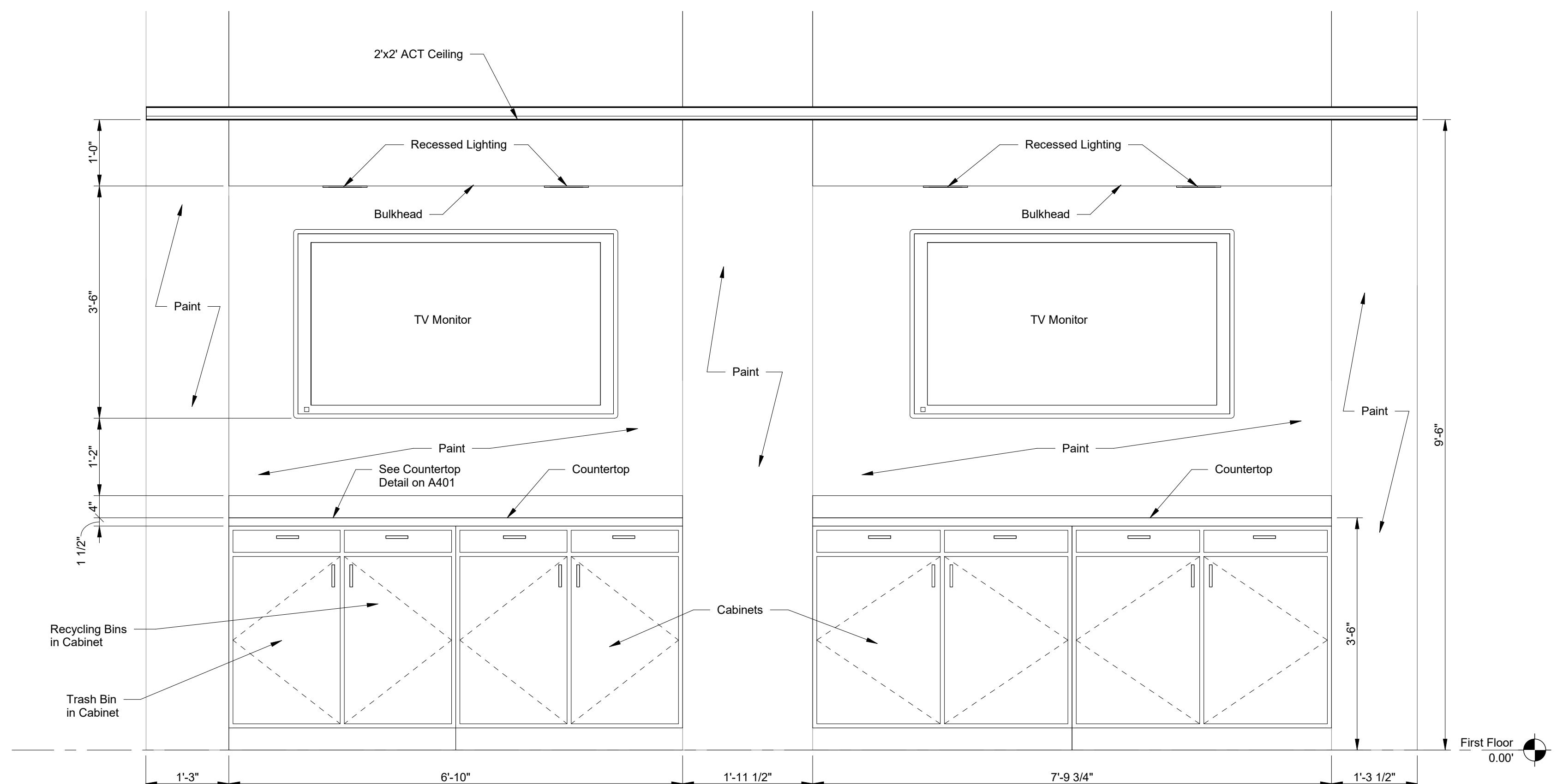
SCALE  
3/4" = 1'-0"  
SHEET NUMBER



0-2020-06205-051Building2020-105-FloorPlanM1  
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**FAYETTE COUNTY COURTHOUSE**  
**FAYETTE COUNTY BOARD OF  
COMMISSIONERS**  
PREPARED FOR  
CITY OF UNIONTOWN, FAYETTE COUNTY  
PENNSYLVANIA

**INTERIOR  
ELEVATIONS**



BOOKING	N/A	JOB NO	2020-105
DRAWN	RH	CHECKED	JS
DESIGN	RH	APPROVED	TMJR

3/4" = 1'-0"

SHEET NUMBER

**A202**



REVISIONS		BY	
NO.	DESCRIPTION	DATE	BY

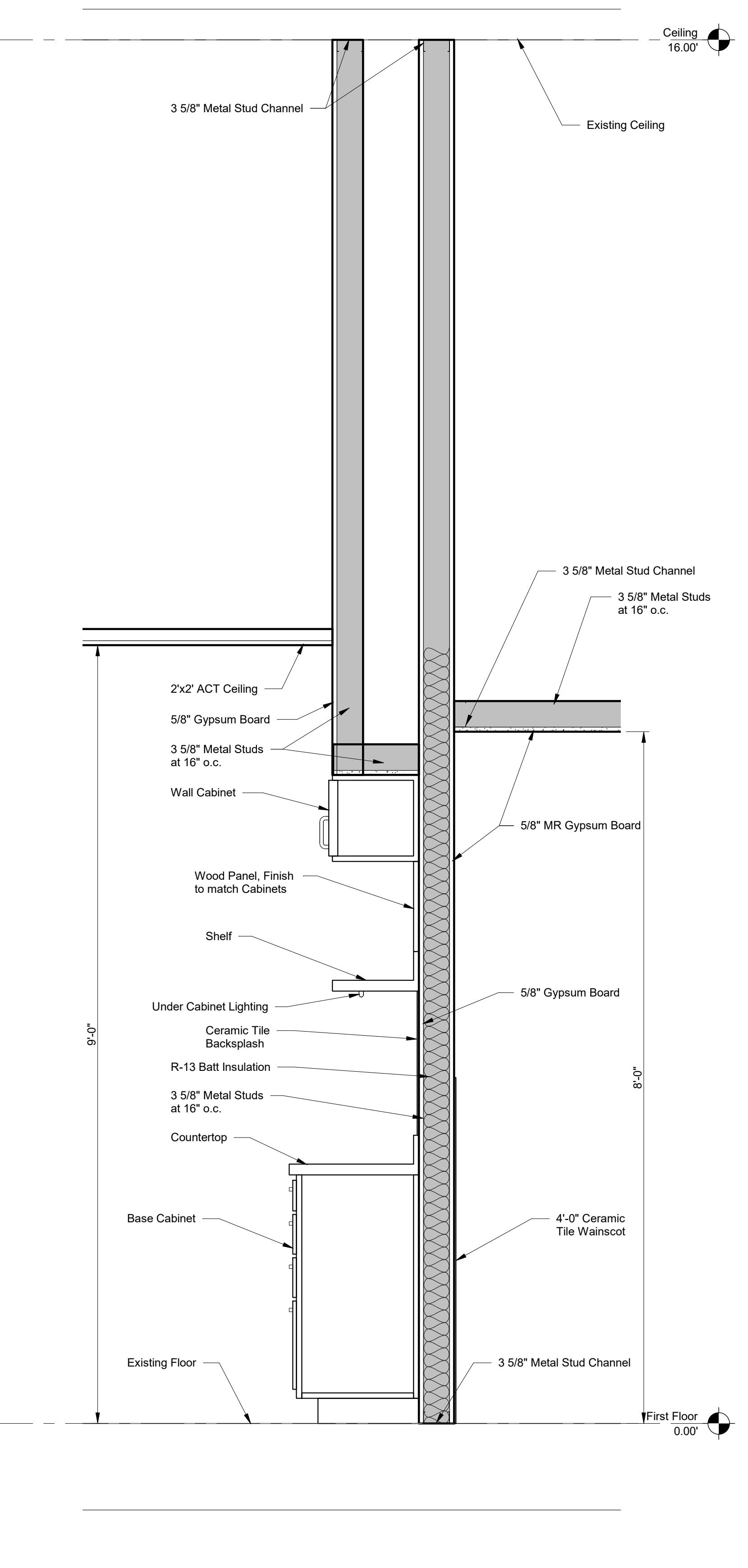
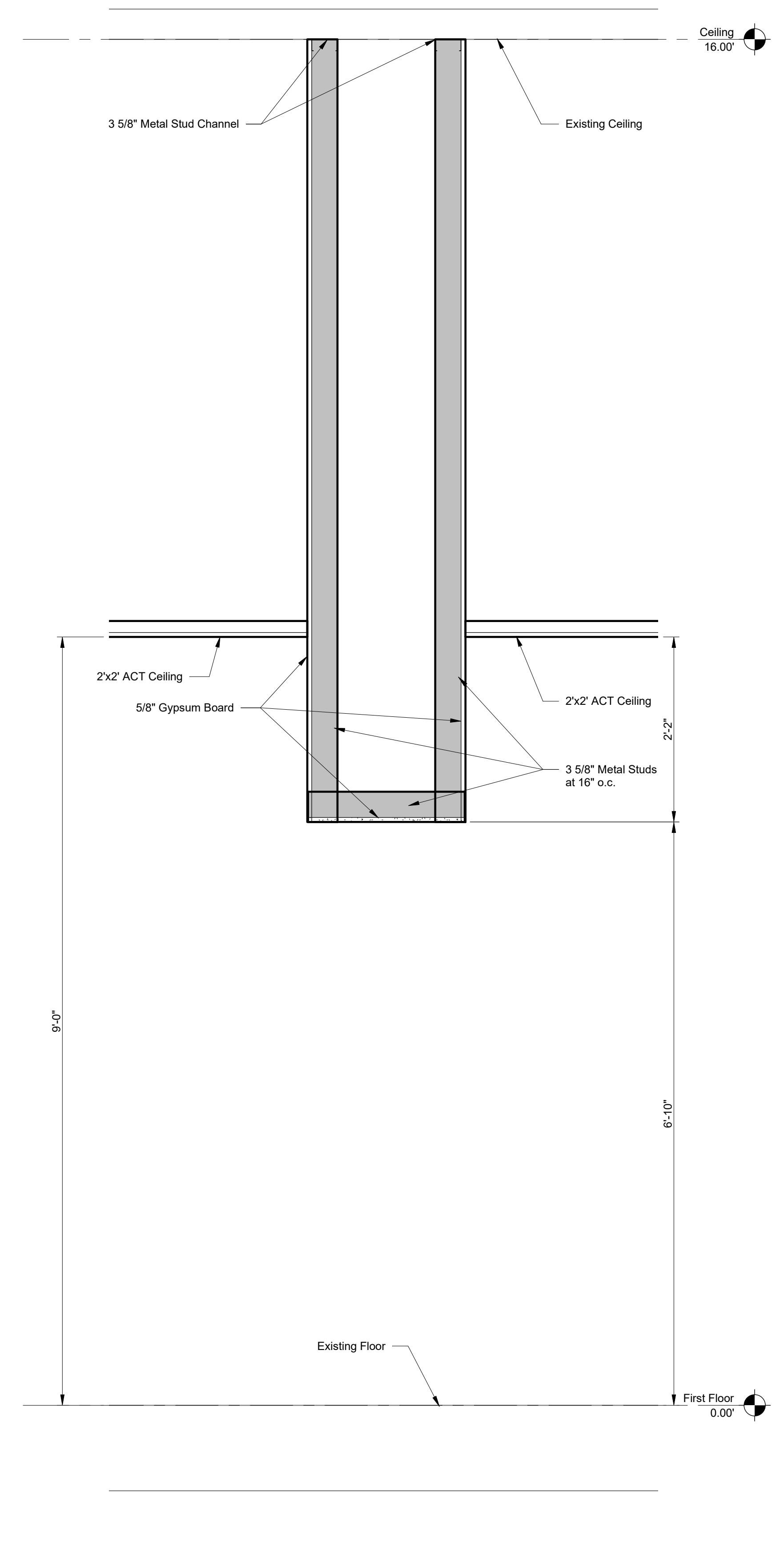
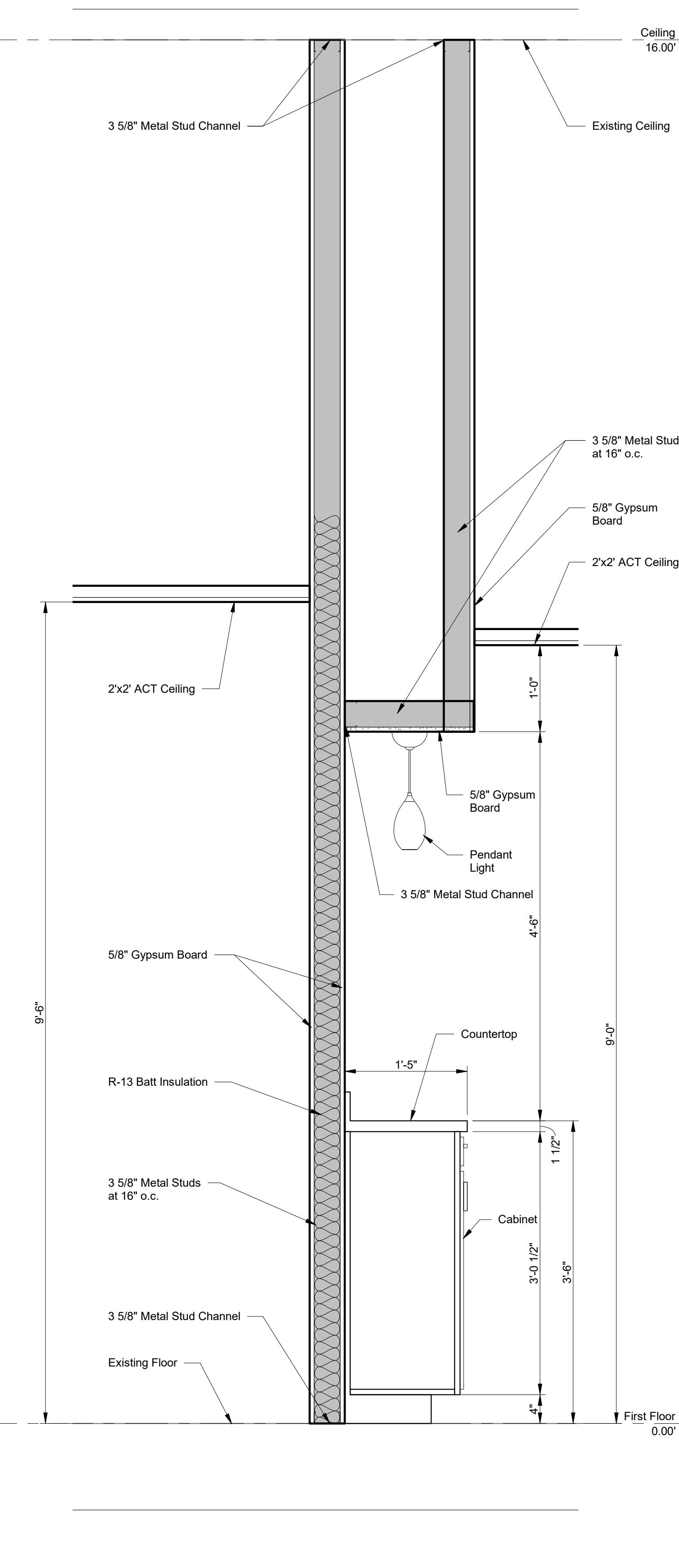
0-2020-0620-015Building2020-105 Fwd Plan M1

**CONFERENCE ROOM EXPANSION**  
**FAYETTE COUNTY COURTHOUSE**  
PREPARED FOR  
**COMMISSIONERS**  
CITY OF UNIONTOWN, FAYETTE COUNTY  
PENNSYLVANIA

CONFERENCE ROOM EXPANSION  
FAYETTE COUNTY COURTHOUSE  
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CONFERENCE ROOM EXPANSION  
FAYETTE COUNTY COURTHOUSE  
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COMMISSIONERS  
CITY OF UNIONTOWN, FAYETTE COUNTY  
PENNSYLVANIA

**SECTIONS**



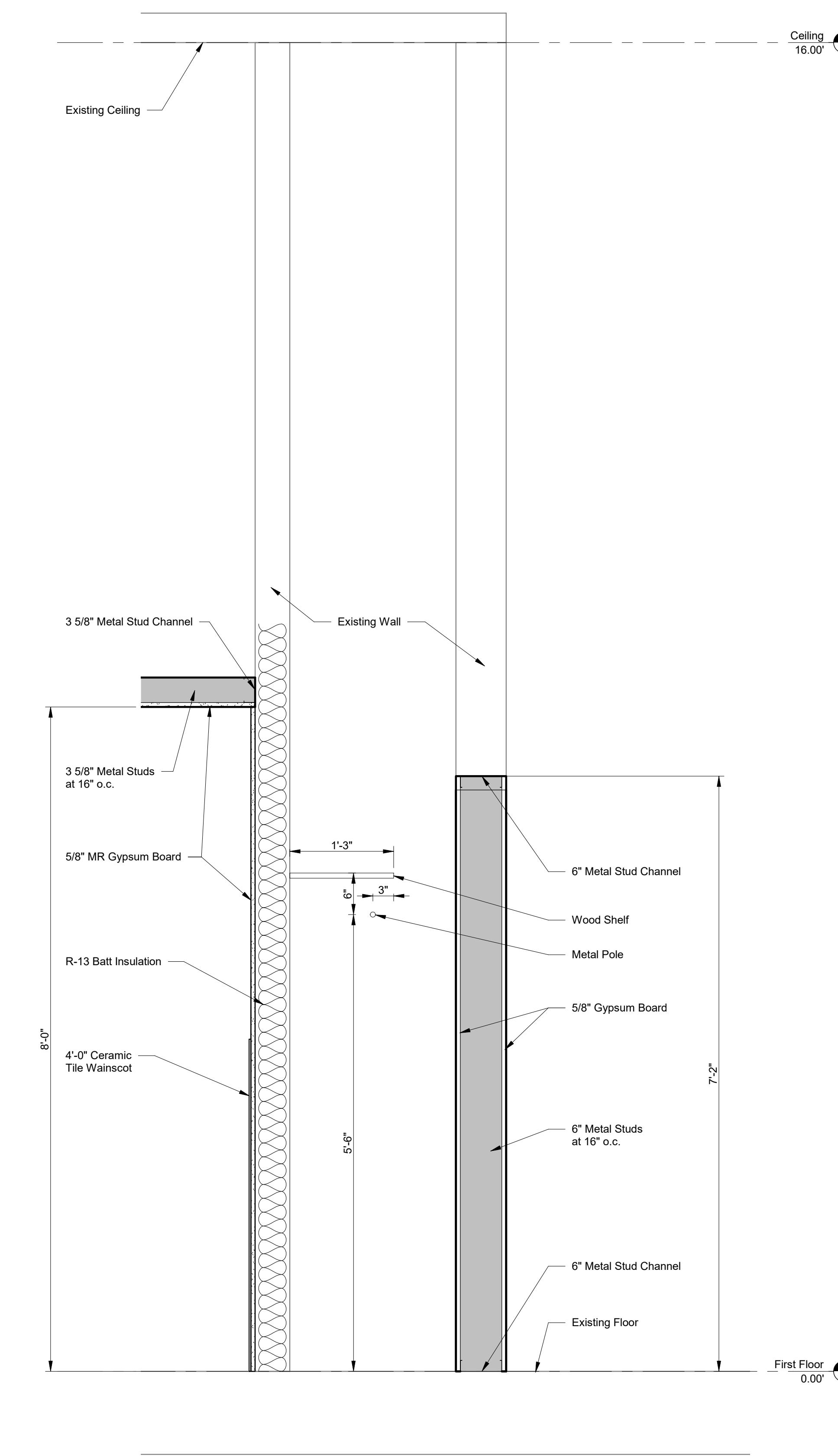
① Section 1  
1" = 1'-0"

② Section 2  
1" = 1'-0"

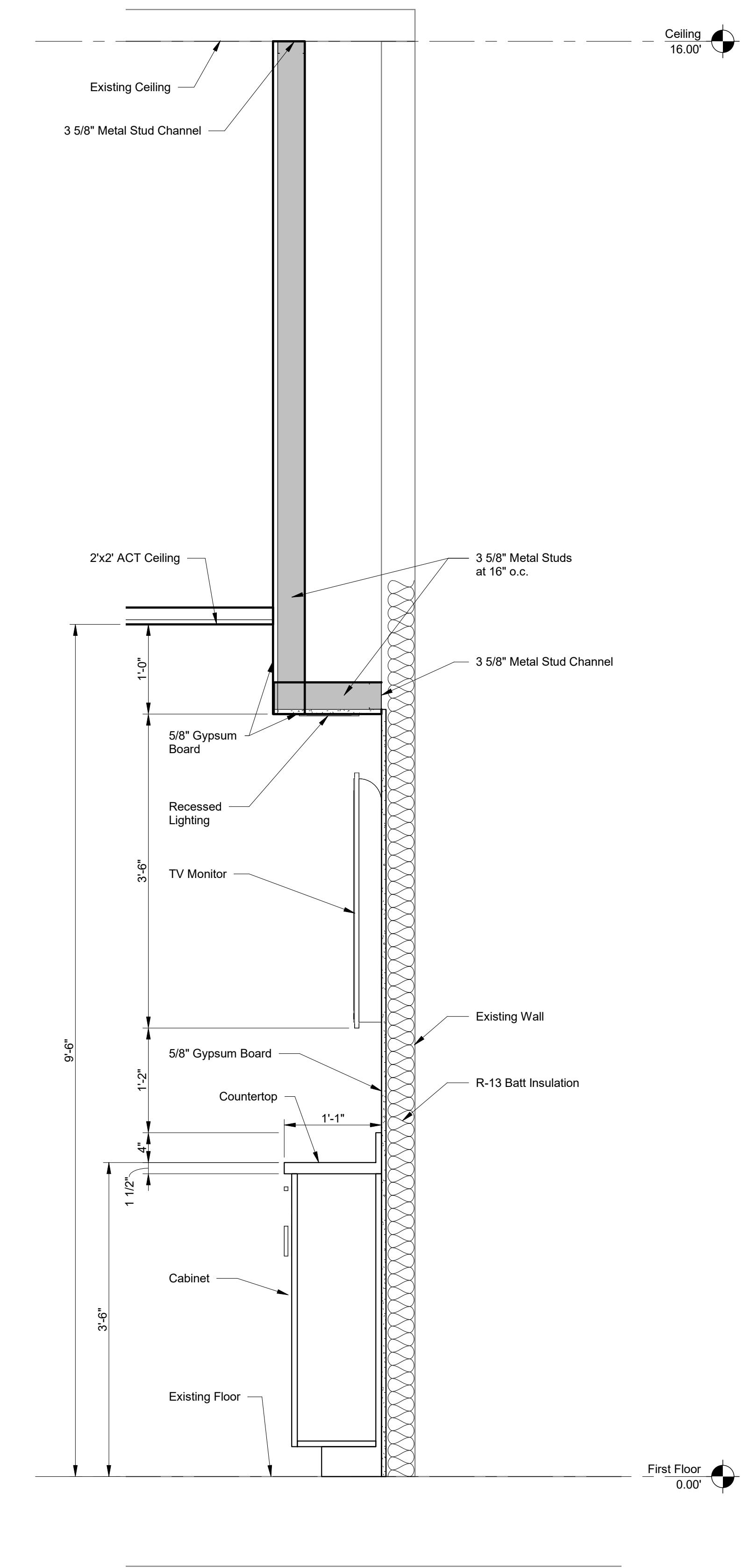
③ Section 3  
1" = 1'-0"

1" = 1'-0"

**A301**



① Section 4  
1" = 1'-0"



② Section 5  
1" = 1'-0"

**FAYETTE COUNTY COURTHOUSE  
CONFERENCE ROOM EXPANSION  
FAYETTE COUNTY BOARD OF  
COMMISSIONERS**  
PREPARED FOR  
CITY OF UNIONTOWN, FAYETTE COUNTY  
PENNSYLVANIA

REVISIONS		DATE	BY
NO.	DESCRIPTION		

O-2020-06205-051Building2020-105-FacPlanM1

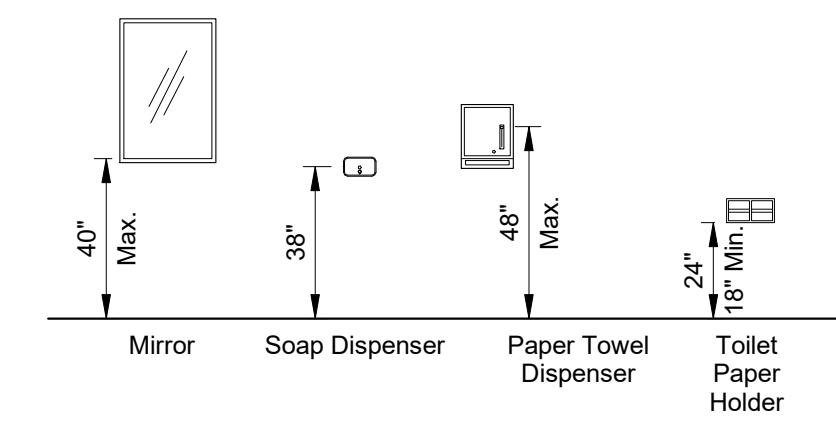
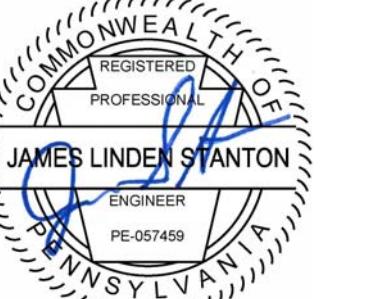
BOOK NO.	N/A	JOB NO.
DRAWN		2020-105
RH	8/17/20	OKED JS 8/17/20
DESIGN		APPROVED TMJR 8/17/20
SCALE		

1" = 1'-0"

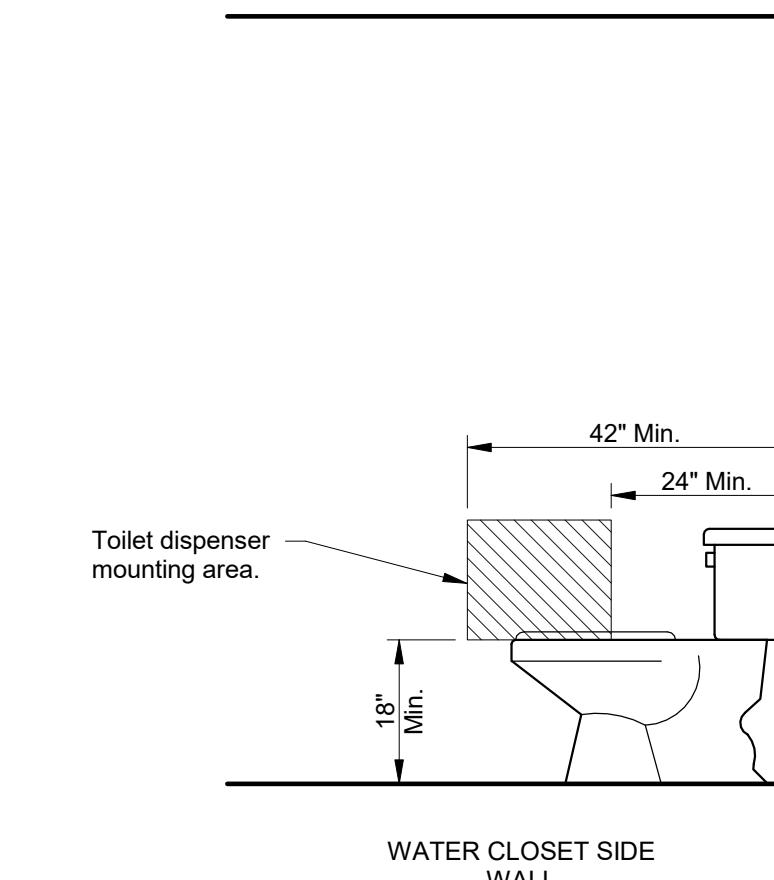
SHEET NUMBER

**A302**

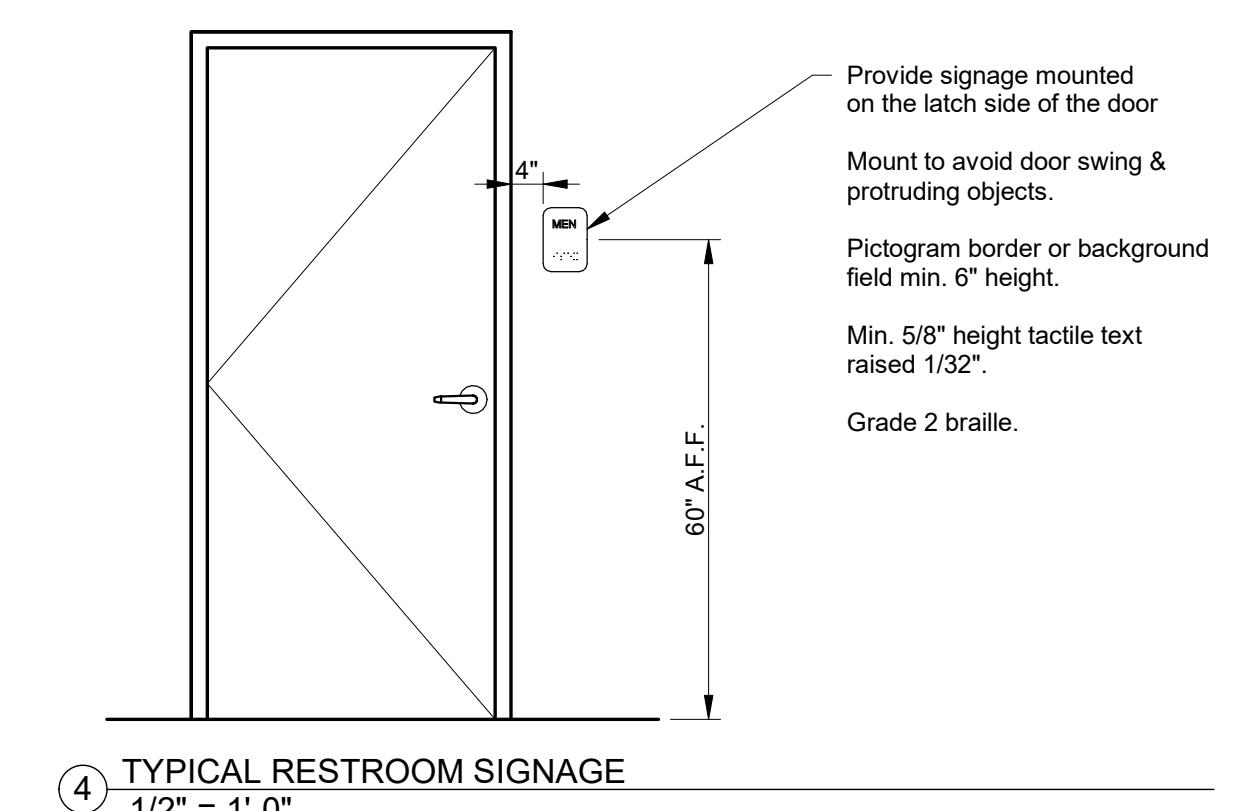
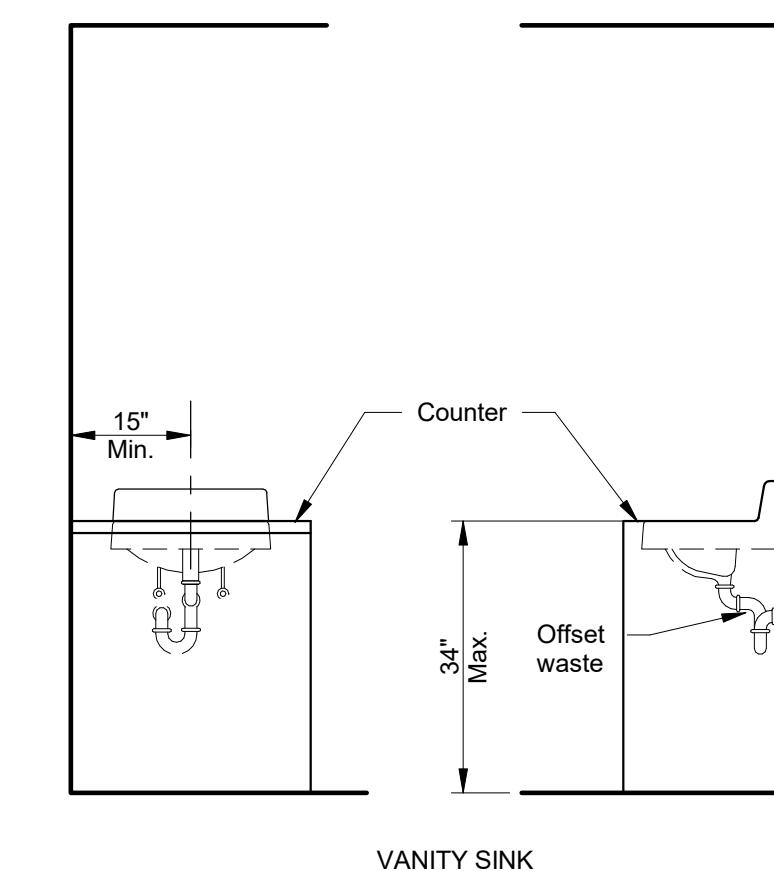
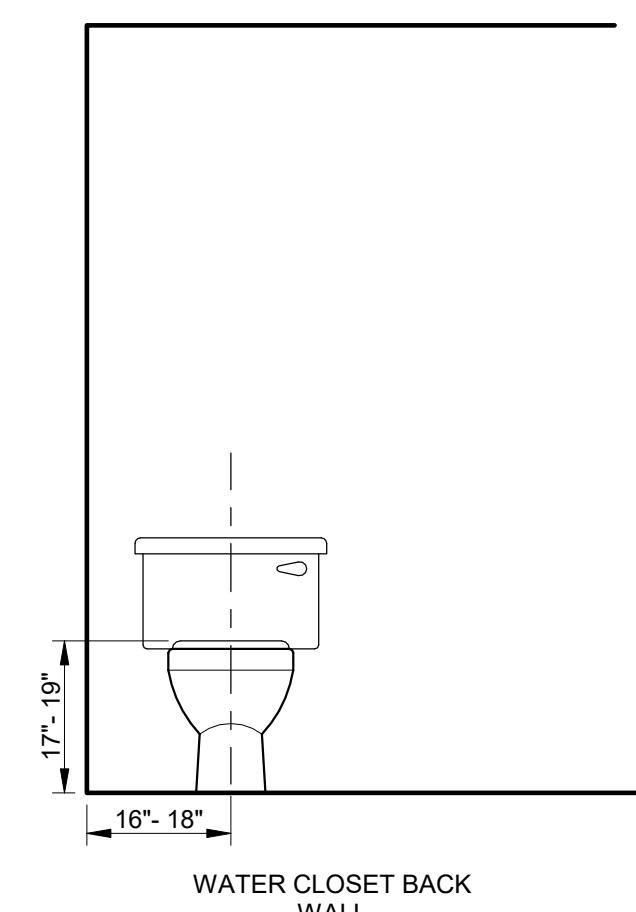




① TOILET ACCESSORIES MOUNTING HEIGHTS  
1/4" = 1'-0"



② TOILET FIXTURE MOUNTING HEIGHTS  
1/2" = 1'-0"



④ TYPICAL RESTROOM SIGNAGE  
1/2" = 1'-0"

**FAYETTE COUNTY COURTHOUSE**  
**FAYETTE COUNTY BOARD OF**  
**COMMISSIONERS**  
CITY OF UNIONTOWN, FAYETTE COUNTY  
PENNSYLVANIA

PREPARED FOR  
FAYETTE COUNTY BOARD OF  
COMMISSIONERS

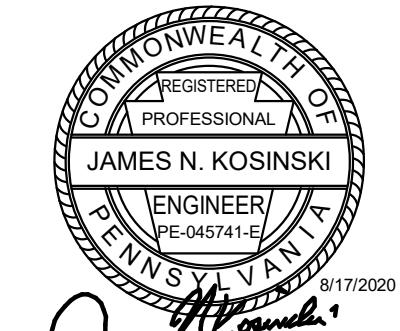
CITY OF UNIONTOWN, FAYETTE COUNTY  
PENNSYLVANIA

REVISIONS		BY	
NO.	DESCRIPTION	DATE	BY

BOOK NO.	N/A	JOB NO.	2020-105
DRAWN		CHECKED	
DESIGN		APPROVED	
SCALE			

As indicated

SHEET NUMBER  
**A401**

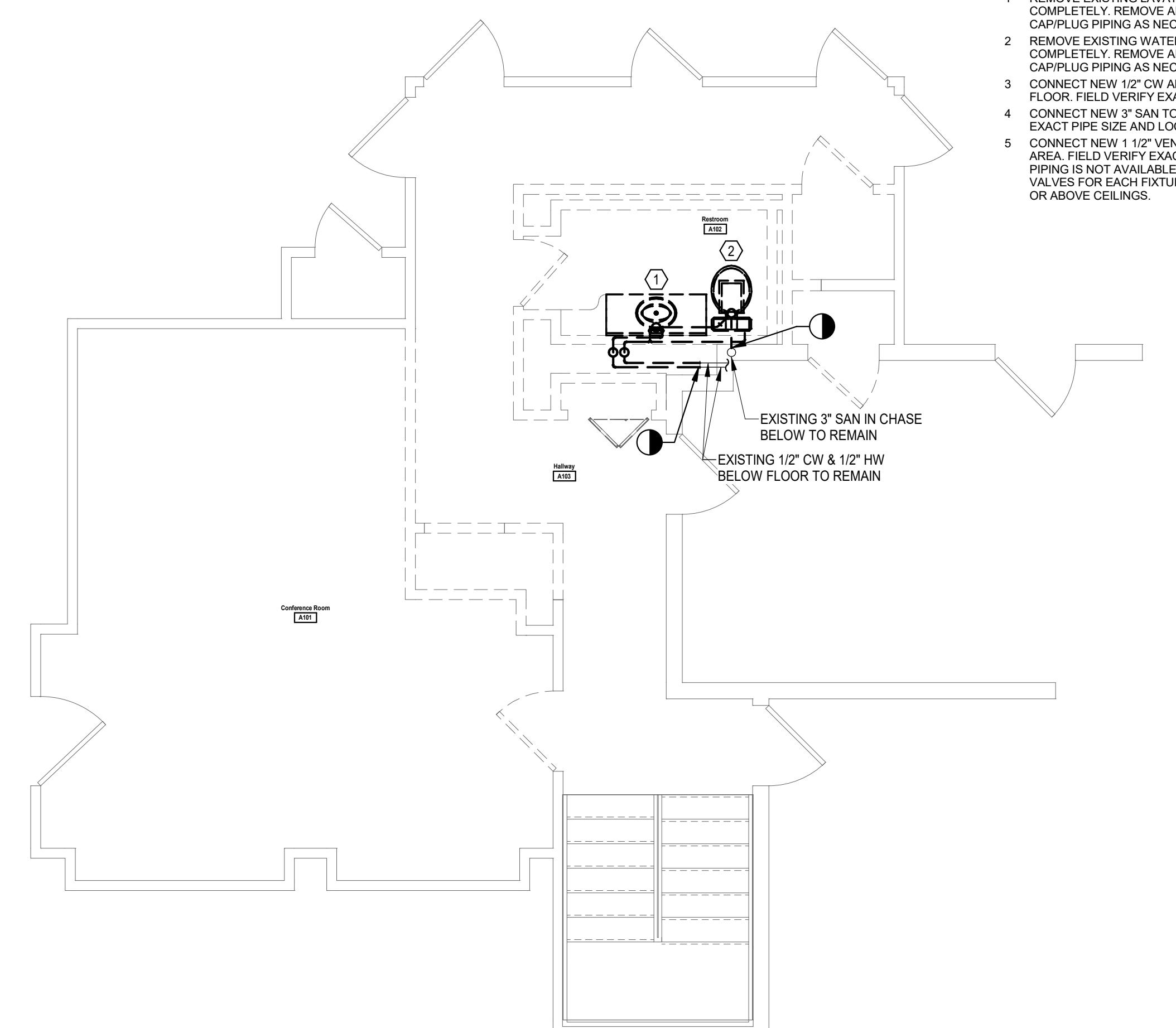
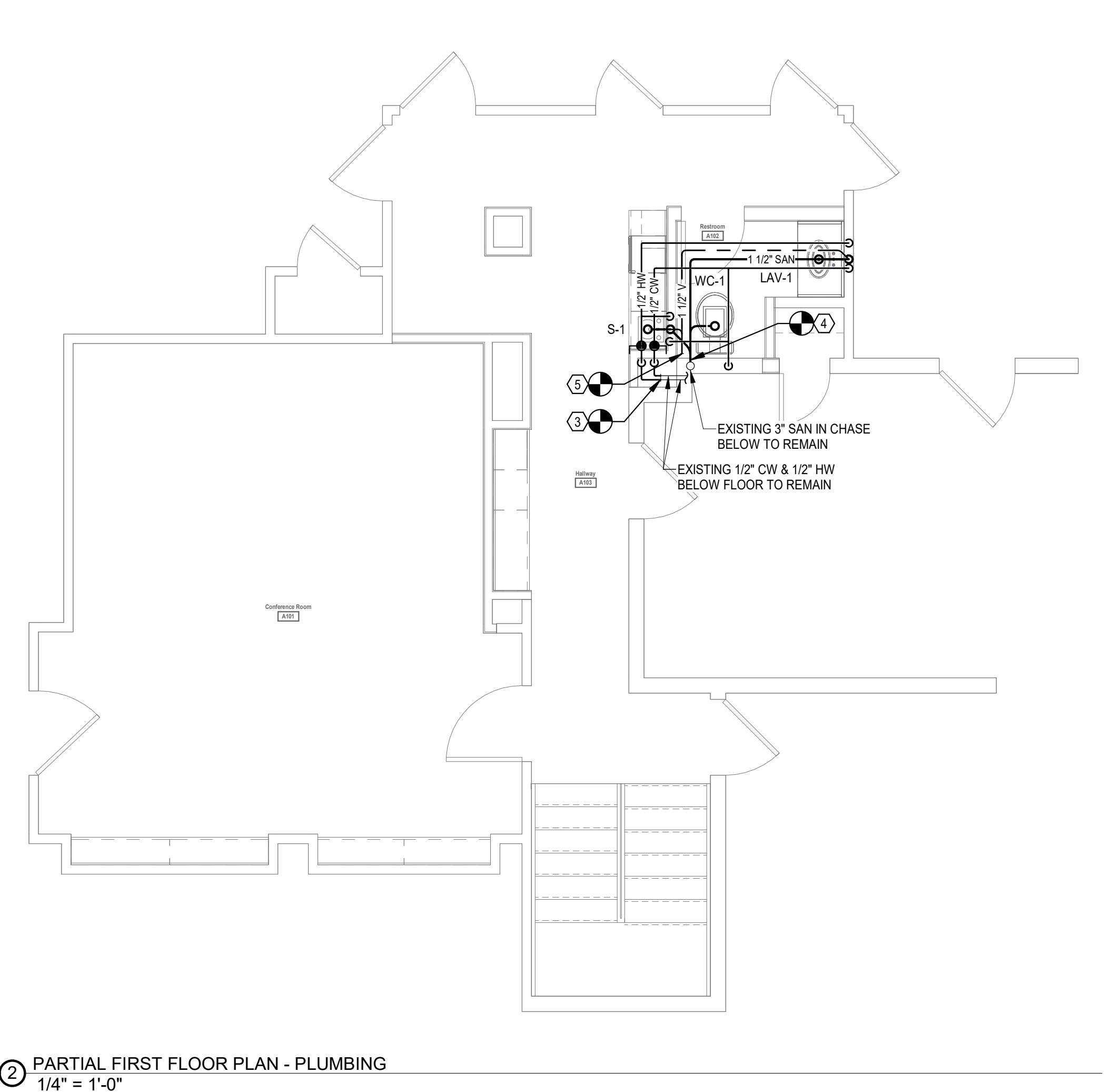


**TOWER**  
ENGINEERING

115 Evergreen Heights Drive, Suite 400,  
Pittsburgh, Pennsylvania 15229  
Phone: (412) 931-8888 Fax: (412) 939-2525

Project Number: 2020117

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#### CODED NOTES SHEET P100

- 1 REMOVE EXISTING LAVATORY, FAUCET, VALVES AND ACCESSORIES COMPLETELY. REMOVE ALL RELATED PIPING BACK TO POINT SHOWN AND CAP/PLUG PIPING AS NECESSARY.
- 2 REMOVE EXISTING WATER CLOSET, VALVES AND ACCESSORIES COMPLETELY. REMOVE ALL RELATED PIPING BACK TO POINT SHOWN AND CAP/PLUG PIPING AS NECESSARY.
- 3 CONNECT NEW 1/2" CW AND 1/2" HW TO EXISTING CW & HW PIPING BELOW FLOOR. FIELD VERIFY EXACT PIPE SIZES AND LOCATIONS.
- 4 CONNECT NEW 3" SAN TO EXISTING SAN IN CHASE BELOW. FIELD VERIFY EXACT PIPE SIZE AND LOCATION.
- 5 CONNECT NEW 1 1/2" VENT TO EXISTING VENT ABOVE CEILING IN THIS AREA. FIELD VERIFY EXACT VENT SIZE AND LOCATION. EXISTING VENT PIPING IS NOT AVAILABLE WITHIN THIS AREA. PROVIDE AIR ADMITTANCE VALVES FOR EACH FIXTURE IN AN ACCESSIBLE LOCATION WITHIN WALLS OR ABOVE CEILINGS.

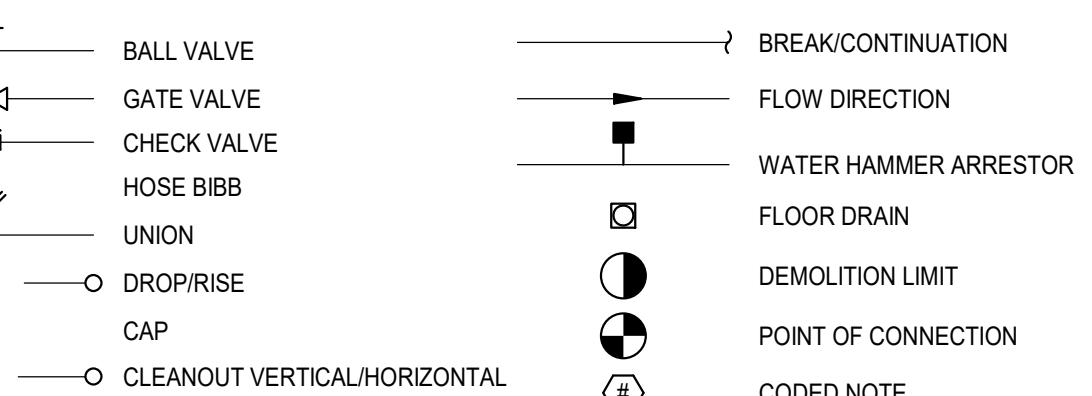
#### Fixture Connection Schedule

TAG NO.	CW	HW	TRAP	VENT	REMARKS
WC-1	1/2"	---	3"	1 1/2"	STANDARD HEIGHT - FLOOR MOUNTED - TANK TYPE
LAV-1	1/2"	1/2"	1 1/2"	1 1/2"	STANDARD HEIGHT - COUNTERTOP - AUTOMATIC FAUCET & TRIM ONLY
S-1	1/2"	1/2"	1 1/2"	1 1/2"	STANDARD HEIGHT - DROP-IN - SINGLE BOWL

#### PLUMBING ABBREVIATIONS

ABV	ABOVE	LAV	LAVATORY
AFF	ABOVE FINISHED FLOOR	MB	MOP BASIN
AP	ACCESS PANEL	MAX	MAXIMUM
BFP	BACKFLOW PREVENTER	MIN	MINIMUM
CLG	CEILING	NC	NORMALLY CLOSED
CO	CLEANOUT	NIPC	NOT IN PLUMBING CONTRACT
CONN	CONNECT, CONNECTION	NO	NORMALLY OPEN
CONT	CONTINUED, CONTINUATION	OD	OUTSIDE DIAMETER
CW	COLD WATER	PC	PLUMBING CONTRACTOR
DF	DRINKING FOUNTAIN	PRESS	PRESSURE
DIA	DIA	PRV	PRESSURE REDUCING VALVE
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
EA	EACH	PSI	POUNDS PER SQUARE INCH
EC	ELECTRICAL CONTRACTOR	S	SINK
ELEV	ELEVATOR, ELEVATION	SAN	SANITARY
EWC	ELECTRIC WATER COOLER	SPEC	SPECIFICATION
EXIST	EXISTING	SS	SERVICE SINK
°F	DEGREES FAHRENHEIT	ΔT	TEMPERATURE DIFFERENTIAL
FD	FLOOR DRAIN	TEMP	TEMPERATURE
FFA	FROM FLOOR ABOVE	TW	TEMPERED WATER
FFB	FROM FLOOR BELOW	Typ	TYPICAL
FT	FEET/FOOT	V	VENT
GPH	GALLONS PER HOUR	VTR	VENT THRU ROOF
GPM	GALLONS PER MINUTE	W	WASTE
GC	GENERAL CONTRACTOR	WC	WATER CLOSET
GPH	GALLONS PER HOUR	WHA	WATER HAMMER ARRESTOR
GPM	GALLONS PER MINUTE	X	EXISTING

#### PLUMBING LEGEND



#### PLUMBING PIPE LEGEND

—	EXISTING PIPING
—	DEMOLISHED PIPING
—	DOMESTIC COLD WATER
—	DOMESTIC HOT WATER
—	DOMESTIC HOT WATER RETURN
—	DOMESTIC HOT WATER 140°
—	DOMESTIC HOT WATER RETURN 140°
—	TEMPERED WATER
—	SANITARY PIPING
—	VENT PIPING

#### PLUMBING GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FITTINGS AS REQUIRED BY ALL APPLICABLE CODES AND GOVERNING AUTHORITIES.
- THE CONTRACTOR SHALL VERIFY AND CORRECT, AS REQUIRED TO MEET ALL CODES AND REGULATIONS, ANY AND ALL POSSIBLE DISCREPANCIES BETWEEN TYPE AND SIZE OF CONNECTIONS SPECIFIED IN THE PLUMBING FIXTURE SCHEDULES AND FIXTURES ACTUALLY INSTALLED.
- VALVES AND FITTING SHALL BE OF THE SAME SIZE AS THE PIPING OF WHICH THEY ARE INSTALLED.
- THE DRAWINGS ARE DIAGRAMMATIC, THE CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS AT THE SITE PRIOR TO ANY INSTALLATION.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS.
- CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND WASTE PIPING AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- INSTALL WATER HAMMER ARRESTORS ON HOT AND COLD WATER PIPING TO EACH FIXTURE OR BATTERY OF FIXTURES. ARRESTORS SHALL BE FACTORY FABRICATED, SIZED AND PLACED IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH-201. INSTALL WATER HAMMER ARRESTORS IN AN ACCESSIBLE LOCATION.
- AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER HAMMER ARRESTORS.
- ALL PIPING SHALL BE INSTALLED AS CLOSE TO DRAWINGS AS POSSIBLE WITH NO CHANGES IN SIZING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN THE CONTRACT DRAWINGS AND AS SPECIFIED.
- CONTRACTOR SHALL GIVE SUITABLE NOTICE TO ALL APPLICABLE UTILITY COMPANIES AND OWNER PRIOR TO PERFORMING WORK INVOLVING UTILITIES.
- ALL PIPING SHALL BE ROUTED CONCEALED ABOVE CEILINGS, WITHIN WALLS OR IN CHASES EXCEPT FINAL CONNECTIONS TO FIXTURES, OR IN MECHANICAL ROOMS AND AS SPECIFICALLY NOTED OTHERWISE.
- PROVIDE ACCESS PANELS FOR ALL VALVES WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS AND DIMENSIONS.
- PRIOR TO THE INSTALLATION OF NEW SEWER PIPING, THE CONTRACTOR SHALL VERIFY EXACT INVERT ELEVATIONS OF THE EXISTING SEWERS TO WHICH NEW SEWER PIPING IS TO BE CONNECTED.
- ALL VENTS THROUGH ROOF SHALL BE A MINIMUM OF FIFTEEN (15) FEET FROM MECHANICAL ROOFTOP AIR INTAKES.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (INCLUDING PIPE ROUTING AND EQUIPMENT LOCATIONS) TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO THE INSTALLATION OR PURCHASING OF ANY PIPING AND/OR EQUIPMENT.
- THE CONTRACTOR SHALL BASE HIS/HER PROPOSAL UPON THE EQUIPMENT, FIXTURES, ETC. SCHEDULED OR SPECIFIED, USING THE MANUFACTURERS AND MODEL NUMBERS AS CALLED FOR IN THE SPECIFICATIONS AND SCHEDULED ON THE DRAWINGS. IF MORE THAN ONE MANUFACTURER IS SPECIFIED, ANY ONE OF THE MANUFACTURERS MAY BE USED IN THE PROPOSAL. IF THE CONTRACTOR WISHES TO USE EQUIPMENT, FIXTURES, ETC. NOT SPECIFIED, HE MUST SUBMIT ON LETTERHEAD STATIONERY, THE EQUIPMENT, FIXTURES, ETC. SUBSTITUTED AND RECEIVE ARCHITECT/ENGINEER APPROVAL 10 DAYS BEFORE THE BID IS DUE.
- THE CONTRACTOR SHALL ORDER ALL MATERIALS IN SUFFICIENT TIME TO AVOID DELAYING THE COMPLETION OF THE PROJECT. DELAY IN DELIVERIES WILL NOT BE CONSIDERED A JUSTIFIABLE REASON FOR SUBMISSION OF SUBSTITUTE MATERIALS.
- PIPING SHALL NOT PENETRATE ANY WALL FOOTINGS. COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND THE LOCATION BE APPROVED BY THE STRUCTURAL ENGINEER.
- EXPOSED PIPING IN FINISHED SPACES SHALL BE CHROME PLATED.
- DOMESTIC WATER AND VENT PIPING IS ABOVE THE CEILING UNLESS OTHERWISE NOTED.
- MINIMUM SIZE FOR SANITARY PIPING BELOW GRADE IS 4" DIAMETER.
- SANITARY AND WASTE PIPING IS BELOW THE FLOOR UNLESS OTHERWISE NOTED.
- PROVIDE SLEEVES AND FIRE STOP SEALANTS AT ALL PIPE PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS. COMPLY WITH ASTM E-814 AND UL 1479.

#### PLUMBING DEMOLITION NOTES

- COORDINATE DEMOLITION WORK WITH OTHER TRADES AND EXISTING CONDITIONS.
- THE DRAWINGS ARE DIAGRAMMATIC. VERIFY ACTUAL CONDITIONS AT THE SITE BEFORE PROCEEDING WITH WORK.
- OWNER RETAINS THE RIGHTS TO ALL ITEMS AND EQUIPMENT SCHEDULED FOR REMOVAL.
- COORDINATE STAGING OF DEMOLITION AND NEW CONSTRUCTION TO AVOID INTERRUPTION OF BUILDING UTILITIES AND SERVICES.
- DISCONNECT AND REMOVE FIXTURES, PIPING, AND EQUIPMENT TO ACCOMPLISH DEMOLITION SHOWN. SALVAGED ITEMS NOT SCHEDULED FOR REUSE AT TO BE TURNED OVER TO THE OWNER.
- COORDINATE DEMOLITION DRAWINGS WITH FLOOR PLANS FOR CONNECTION LOCATIONS OF NEW WORK WITH EXISTING SYSTEMS.
- FIXTURES, PIPING AND EQUIPMENT WITHIN THE CONSTRUCTION AREAS THAT ARE NOT AFFECTED BY THE WORK OF THIS CONTRACT SHALL BE PROTECTED PRIOR TO COMMENCEMENT AND UNTIL THE COMPLETION OF THE WORK.
- PROTECT (OR REMOVE AND STORE) EXISTING FIXTURES, FITTINGS, AND EQUIPMENT TO BE REUSED OR RELOCATED, THROUGH OUT ALL STAGES OF DEMOLITION AND CONSTRUCTION. REINSTALL AS INDICATED ON FLOOR PLANS.
- REFER TO CODED NOTES FOR ADDITIONAL INFORMATION FOR DEMOLITION WORK.

#### PARTIAL FIRST FLOOR PLANS PLUMBING

BOOK NO.	JOB NO.
	2020-105
DRAWN	OKED
AJK	8/17/20
DESIGN	APPROVED
AJK	8/17/20
SCALE	MSP
	8/17/20
As indicated	
SHEET NUMBER	
P100	

# ELECTRICAL SYMBOL LEGEND

## ELECTRICAL GENERAL NOTES

**A. BRANCH CIRCUITING:**

- ALL ELECTRICAL DEVICES HAVE BRANCH CIRCUIT NUMBERS AND PANELS INDICATED ADJACENT TO THE POWER CONDUIT NUMBER ON THE PLANS. ALTHOUGH THE INTERCONNECTING BRANCH CIRCUITING IS NOT SHOWN, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL WIRE AND CONDUIT REQUIRED FOR A COMPLETE AND OPERATION POWER DISTRIBUTION SYSTEM.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL BRANCH CIRCUITING SHALL BE INSTALLED CONCEALED IN EMT, 3/4" MINIMUM.
- CONDUIT SHALL BE 3/4" EMT, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE FOLLOWING EXCEPTIONS ALSO APPLY:
  - MAXIMUM CONDUIT SIZE IN CONCRETE SLABS SHALL BE 1" PVC.
  - ALL BRANCH CIRCUIT WIRING SHALL BE #12AWG THIN COPPER, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE FOLLOWING EXCEPTIONS APPLY:
    - PROVIDE CIRCUITING TO LED LAMPS LIGHT FIXTURES THAT ARE DIMMED. PROVIDE CIRCUITING G#12, 1# (12GRD) TO ALL LIGHT FIXTURES IN MC CABLE WITH TWO CONDUCTORS FOR 0-10 VOLT CONTROL ORIGINATING AT RELAY PACK UNO. CIRCUITING SHALL BE AFC CABLE SYSTEMS MC LUMINARY CABLE TYPE MC-PCS (12-2 BLACK, WHITE, GREEN WITH 12-2 PURPLE AND GRAY) OR APPROVED EQUIVALENT WHERE DISTANCE EXCEEDS 100'; PROVIDE #10 COLD ROD.
    - THE MAXIMUM NUMBER OF CURRENT CARRYING WIRING (DOES NOT INCLUDE GROUND WIRE) IN ANY ONE CONDUIT SHALL NOT EXCEED SIX (6). UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE FOLLOWING EXCEPTIONS APPLY:
      - CONDUIT RUNS TO WALL SWITCHES.
- PROVIDE A SEPARATE INSULATED GROUND WIRE IN EACH CONDUIT RUN. MINIMUM WIRE SIZE SHALL BE #12AWG. GROUND WIRE IS TYPICALLY NOT SHOWN.
- OBTAINT WRITTEN APPROVALS OF LOCATIONS OF ALL ELECTRICAL DEVICES FROM THE OWNER AND THE ARCHITECT PRIOR TO ROUGH-IN. THE OWNER RESERVES THE RIGHT TO MOVE ANY OR ALL ELECTRICAL DEVICES PRIOR TO ROUGH-IN. AT NO ADDITIONAL COST.
- COORDINATE THE LOCATION AND SERVICE REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE RESPECTIVE CONTRACTORS. INFORM THE ARCHITECT OF ANY CONFLICTS IMMEDIATELY.
- THE ELECTRICAL CONTRACTOR SHALL CHECK ALL ARCHITECTURAL AND PLUMBING DRAWINGS FOR THE LOCATION OF ALL OPENINGS. THESE SHALL BE LOCATED A MINIMUM OF 1'-0" FROM THE EDGE OF ANY SINK. EVEN IF SHOWN CLOSER TO THE SINK ON THE ELECTRICAL DRAWINGS.
- EQUIPMENT LABELING:**
- PROVIDE NAMEPLATE LABELS ON ALL ELECTRICAL DISTRIBUTION EQUIPMENT IN ACCORDANCE WITH DETAILS #E000.
- LIGHTING FIXTURE SCHEDULE:**
- REFERS TO SPECIFICATION SECTIONS 2610 (INTERIOR LIGHTING) FOR DETAILED LAMP, DRIVER AND FIXTURE SPECIFICATIONS.
- BID PRICES SHALL BE BASED ON INFORMATION IN ALL COLUMNS. WHERE A CONFLICT EXISTS, THE PRICE SHALL INCLUDE THE MORE EXPENSIVE OPTION. COORDINATE CONFLICTS WITH ENGINEER PRIOR TO SUBMITTING BID.
- RECOMMENDED COLOR TEMPERATURE: 3000K. COLOR TEMPERATURE: LED LAMPS SHALL BE PROVIDED AS RECOMMENDED AND TESTED BY THE MANUFACTURER OF THE FIXTURE SPECIFIED. THE FIXTURE MANUFACTURER SHALL BE RESPONSIBLE FOR THE LAMP-DRIVER COMPATIBILITY.
- NOMINAL LUMEN OUTPUT IS LISTED FOR LED FIXTURE TYPES. SUBMITTED FIXTURE SHALL BE CAPABLE OF PROVIDING 90% OF NOMINAL LUMEN OUTPUT.
- NO SUBSTITUTIONS SHALL BE ACCEPTED UNLESS LISTED.
- PRICING FOR LIGHT FIXTURE TYPES SHALL BE THROUGH LOCAL LIGHTING REP. LISTED ONLY.
- SWITCHING:**
- ALL DRAWINGS FOR WALL SWITCHES. SWITCHES ARE SHOWN ON LIGHTING, POWER, AND SYSTEM PLANS.
- WHERE ONE OR MORE WALL SWITCHES APPEAR IN THE SAME GENERAL LOCATION, SWITCHES SHALL BE GROUPED AND INSTALLED IN ONE WALL BOX WITH ONE CONTINUOUS COMMON COVER PLATE. WHEREVER POSSIBLE, WHERE GROUPING IS NOT POSSIBLE DUE TO SIZE OR TYPE OF DEVICE, GROUP DEVICES CLOSE TOGETHER AND AT THE EXACT SAME MOUNTING HEIGHT.
- CUTTING ALARMS:**
- ALL OPENINGS IN EXISTING STRUCTURAL ELEMENTS, REQUIRED FOR COMPLETION OF THE CONTRACT (SUCH AS FLOORS, WALLS, CEILINGS, AND ROOFS), SHALL BE CUT AND/OR PATCHED BY THE ELECTRICAL CONTRACTOR.

## TECHNOLOGY GENERAL NOTES

**A. LOW VOLTAGE SYSTEM INSTALLATION:**

- PROVIDE ALL AUXILIARY DEVICES SUCH AS TIE BARS, CABLE SUPPORTS, SURFACE RACEWAY, CONDUIT, RACEWAYS, INTER DUCT, ETC. THAT ARE NOT SHOWN BUT ARE REQUIRED FOR A COMPLETE INSTALLATION.
- PROVIDE CONDUIT, BACKBOXES, AND POWER SOURCES FOR EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION.
- CONCEAL ALL CABLES WHEREVER POSSIBLE. WHEN CABLE CANNOT BE CONCEALED IN FINISHED AREAS, THE PROVIDE CONDUIT AND/OR RACEWAY AND CONDUIT SUPPORTS, SURFACE RACEWAY, CONDUIT, RACEWAYS, ETC. AS INDICATED IN SPECIFICATIONS.
- PROVIDE ALL CABLES AND CONDUIT SUPPORTS, SURFACE RACEWAY, CONDUIT, RACEWAYS, ETC. AS INDICATED IN SPECIFICATIONS.
- PLASTIC TIERSHAPS ARE NOT PERMITTED. USE PANDUIT HLP/HPS HOOK & LOOP CABLE TIES - PLUMBED RATED.
- ALL CABLES INSTALLED ABOVE CEILINGS SHALL HAVE PLUMBED RATING.
- PROVIDE WIRE STYLING WIRE, CONDUIT SLEEVES, WIRE WAYS, AND OTHER NETWORK RACEWAYS OR CABLES AS INDICATED IN SPECIFICATIONS. FIRE PLUGS OR SMOKE WALLS.
- CONFIRM THE LAYOUT OF ALL PATCH PANELS, TERMINAL BLOCKS, HEAD-END EQUIPMENT AND WIRING WITH THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION.
- REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL DETAILS AND INFORMATION.

**B. CONDUIT:**

- HORIZONTAL CABLEING FOR THE VOICE/DATA COMMUNICATION STRUCTURED CABLEING SYSTEM SHALL BE CATEGORY 6 PLUMBED RATED CABLE. CATEGORY 6 CABLE SHALL BE TERMINATED ON CATEGORY 6 RATED CONNECTORS AT THE WORKSTATION AND ON CATEGORY 6 RATED CONNECTORS AT THE IDF.
- PROVIDE CATEGORY 6A CABLE TO ALL WIRELESS ACCESS POINTS (WAP) AS DETAILED ON DRAWINGS. AT THE IDF, TERMINATE CABLE TO ALL WIRELESS ACCESS POINTS. AT THE WALL LOCATION TERMINATE THE CABLES WITH BISCUIT JACK. PROVIDED A 20' COIL OF CABLE ABOVE CEILING FOR FINAL PLACEMENT OF WIRELESS ACCESS POINT. SUPPORT CABLE LOOP WITH HOOK AND LOOP TIES.
- PROVIDE CATEGORY 6 CABLE TO ALL SURVEILLANCE CAMERAS AS DETAILED ON DRAWINGS. AT THE MDF/IDF, TERMINATE CABLE TO ALL SURVEILLANCE CAMERAS. AT THE CAMERAS LOCATION TERMINATE THE CABLE WITH BISCUIT JACK. PROVIDED A 20' COIL OF CABLE FOR FINAL PLACEMENT OF CAMERA.
- FURNISH ALL CATEGORY 6 AND CATEGORY 6A PATCH CABLES AT THE IDF. FOR ALL DATA CABLES INSTALLED, PATCH CABLES SHALL BE TURNED OVER THE OWNER FOR PATCHING. DATA NETWORK CONNECTIONS.
- SYSTEM COMPONENTS SHALL BE OF SAME MANUFACTURER FOR END TO END CHANNEL PERFORMANCE AND SHALL MEET SYSTEM REQUIREMENTS AS DESCRIBED IN THE DIVISION 27 SPECIFICATIONS.
- TELEPHONE/DATA OUTLET AND CABLE TOTALS ARE TO BE VERIFIED BY TAKE-OFF DEVICE COUNTS PROVIDED ON FLOOR PLANS.
- SEE SPECIFICATIONS FOR SPECIFIC OUTLET TYPE, COLOR AND COMPONENTS. COORDINATE WITH OWNER AND ENGINEER TO DETERMINE THE APPROPRIATE OUTLET.
- FINAL LOCATION OF WORKSTATION OUTLETS SHALL BE CONFIRMED WITH OWNER'S REPRESENTATIVE.
- PROVIDE A WIRING DIAGRAM AND FLOOR PLAN FOR THE EQUIPMENT AS INSTALLED WITH CLEARLY LABELED CONNECTIONS INTO ROOMS, USING THE SAME NOMENCLATURE ON THE OUTLETS AND TERMINATION PANELS.
- MAKE ALL FINAL CONNECTIONS AS DIRECTED BY THE OWNER'S REPRESENTATIVE. TAG BOTH ENDS OF ALL WIRES WITH A COLOR CODED TAG. THIS IDENTIFICATION SHALL BE LEFT IN PLACE AND APPROVED BY THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION. THIS REQUIREMENT SHALL APPLY TO ALL TELEPHONE/DATA CABLES AND CROSS CONNECT CABLES.
- HORIZONTAL CATEGORY 6 CABLE RUNS SHALL NOT EXCEED 295 FT. FROM TERMINATION PANEL TO OUTLET CONNECTING CABLE. IF DURING CONSTRUCTION, DUE TO EXISTING BUILDING CONSTRUCTION, ETC. THIS LENGTH WILL BE EXCEEDED, IT SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO INSTALLING ANY RACEWAY, CONDUIT, CABLE, ETC.
- CONDUITS AND SLEEVES FOR TELECOMMUNICATIONS CABLEING SHALL BE, AT A MINIMUM, THE FOLLOWING SIZES:
  - 3/4" UP TO (2) CAT6A CABLES
  - 1" UP TO (4) CAT6A CABLES
  - 1-1/4" UP TO (6) CAT6A CABLES
  - 2" UP TO (16) CAT6A CABLES
  - 2-1/2" UP TO (32) CAT6A CABLES
  - 3" UP TO (36) CAT6A CABLES
  - 4" UP TO (62) CAT6A CABLES
  - BEYOND (62) CABLES - PROVIDE MULTIPLE CONDUITS

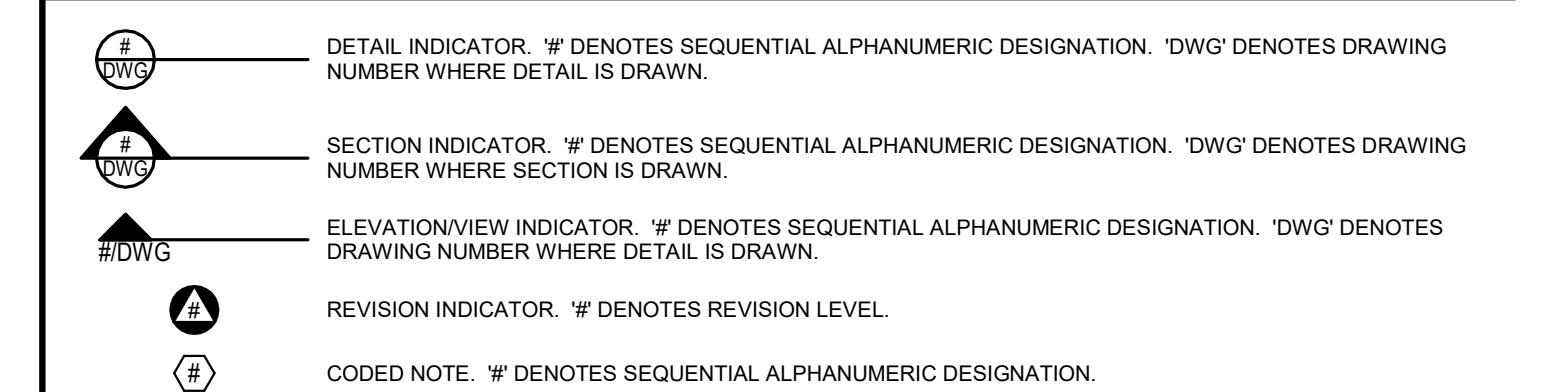
**C. LOW VOLTAGE EQUIPMENT GROUNDING:**

- PROVIDE A GROUND BUS BARS AT DATA RACK LOCATION IN ACCORDANCE WITH DETAIL #E000. PROVIDE A #6 AWG INSULATED CONDUIT GROUND WIRE FROM THE GROUND BUS BARS TO THE COMMUNICATIONS SYSTEM GROUND BAR LOCATED IN THE SAME ROOM. PROVIDE ALL NECESSARY HARDWARE FOR FASTENING OF GROUND WIRES TO GROUNDING BLOCKS.

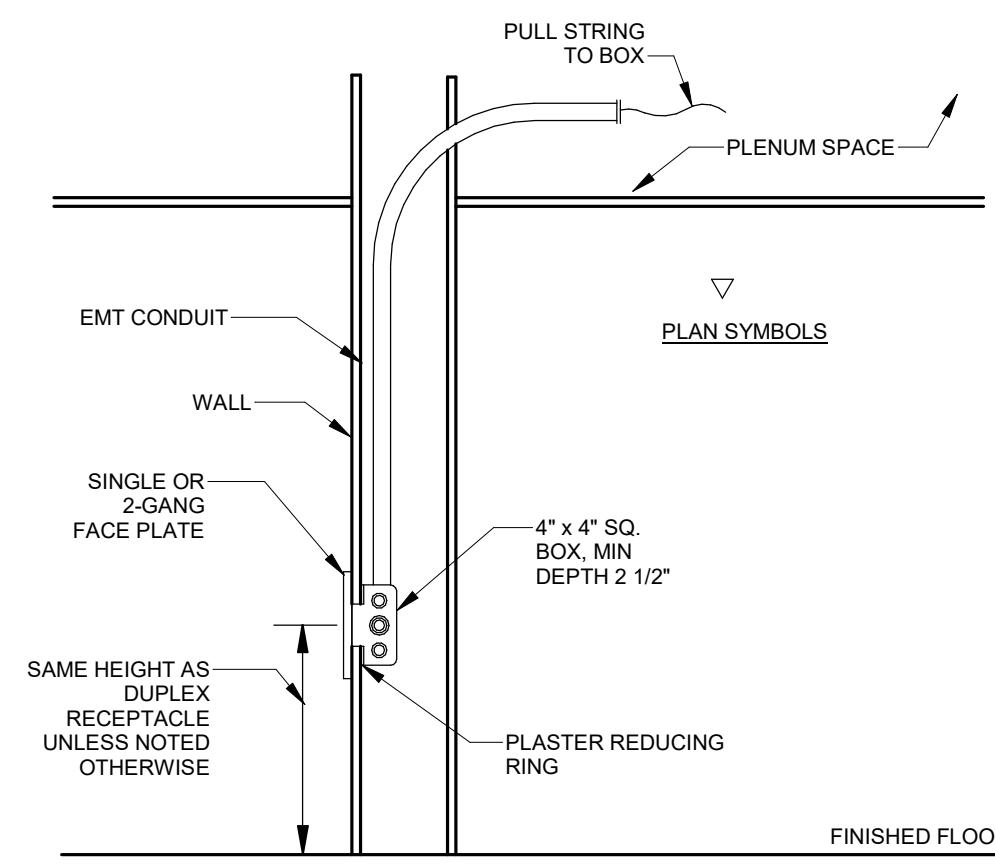
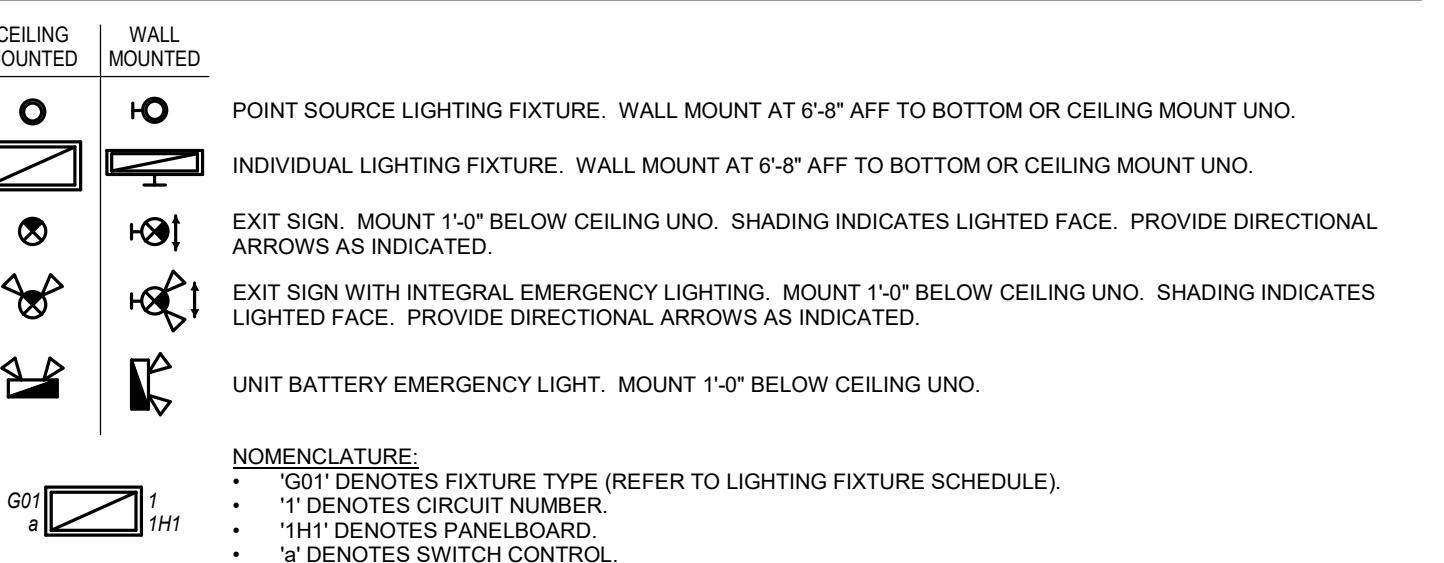
## GENERAL ABBREVIATIONS

A	AMPERE	OC	ON CENTER
AC	ABOVE COUNTER	OEM	ORIGINAL EQUIPMENT MANUFACTURER
AFF	ABOVE FINISHED FLOOR	P	PIPE
AWG	AMERICAN WIRE GAUGE	PB	PILOT BUTTON
C	CONDUIT	PC	PLUMBING CONTRACTOR
CKT	CIRCUIT	PH	PHASE
CB	CIRCUIT BREAKER	PNL	PANELBOARD
CONN	CONNECTION	POS	POSITION
COPPER	COPPER	POWER	POWER
DISC	DISCONNECT	REC	RECEPACLE
DWG	DRAWING	REC'D	RECEIVED
E	EMERGENCY OR EMERGENCY SYSTEM	REC'D	RECEIVED
EC	ELECTRICAL CONTRACTOR	RECPT	RECEPACLE
EF	EXHAUST FAN	RMC	RIGID GALVANIZED METAL CONDUIT
EMT	ELECTRIC METAL TUBING	SCCR	SHORT CIRCUIT CURRENT RATING
EQUIP	EQUIPMENT	SCH	SCHEDULE
EXIST	EXISTING	SEC	SECURITY
FA	FIRE ALARM	SM	SURFACE MOUNTED
FBO	FURNISHED BY OTHERS WITH ALL RELATED ELECTRICAL WORK BY ELECTRICAL CONTRACTOR	SPD	SURGE PROTECTIVE DEVICE
FT	FEET	SW	SWITCH
FTL	FEED THROUGH LUGS	SWBD	SWITCHBOARD
GC	GENERAL CONTRACTOR	TELE	TELEPHONE
GND	GROUND OR GROUNDED	THRU	THROUGH
GRD	GROUND OR GROUNDED	TP	TAMPER PROOF
H/POWER	HIGH/POWER	TV	TELEVISION
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	TYPE	TYPE
IN	INCH	UNDER COUNTER	UNDER COUNTER
JB	JUNCTION BOX	UNO	UNLESS NOTED OTHERWISE
KW	KILOWATT	V	VOLT
LTC	LIGHTING	WAT	WATTS
MCB	MAIN CIRCUIT BREAKER	W/I	WITHOUT
MFR	MANUFACTURER	W/O	WEATHER PROOF ENCLOSURE
MLO	MAIN LUG ONLY	X	EXISTING TO REMAIN
MNT	MOUNTING	XA	EXISTS AND REMOVED COMPLETELY
MTO	MOUNTING	XR	RELOCATED EXISTING EQUIPMENT
NA	NOT APPLICABLE	XRN	EXISTING TO BE REMOVED AND REPLACED WITH NEW DEVICE
NIC	NOT IN THIS CONTRACT	XRR	EXISTING TO BE REMOVED AND RELOCATED
NO	NUMBER	Y	STAR OR WYE DISTRIBUTION SYSTEM
NTS	NOT TO SCALE		

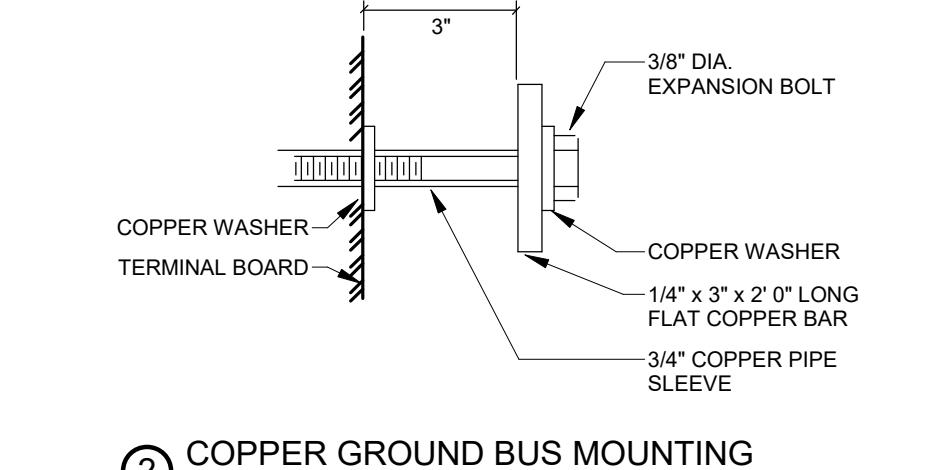
## GENERAL DRAWING SYMBOLS



## LIGHTING

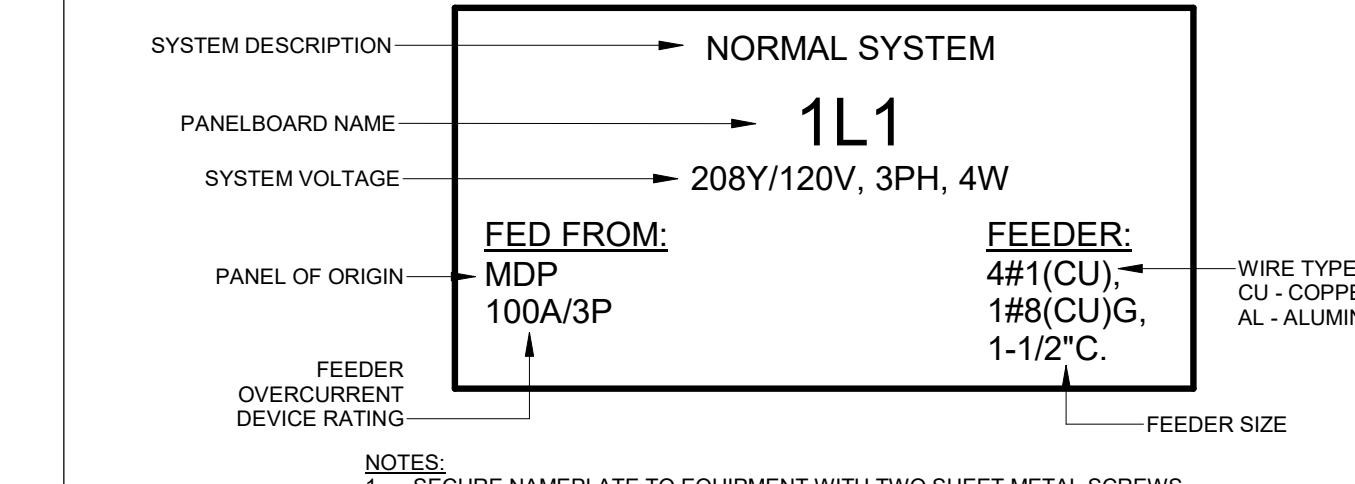
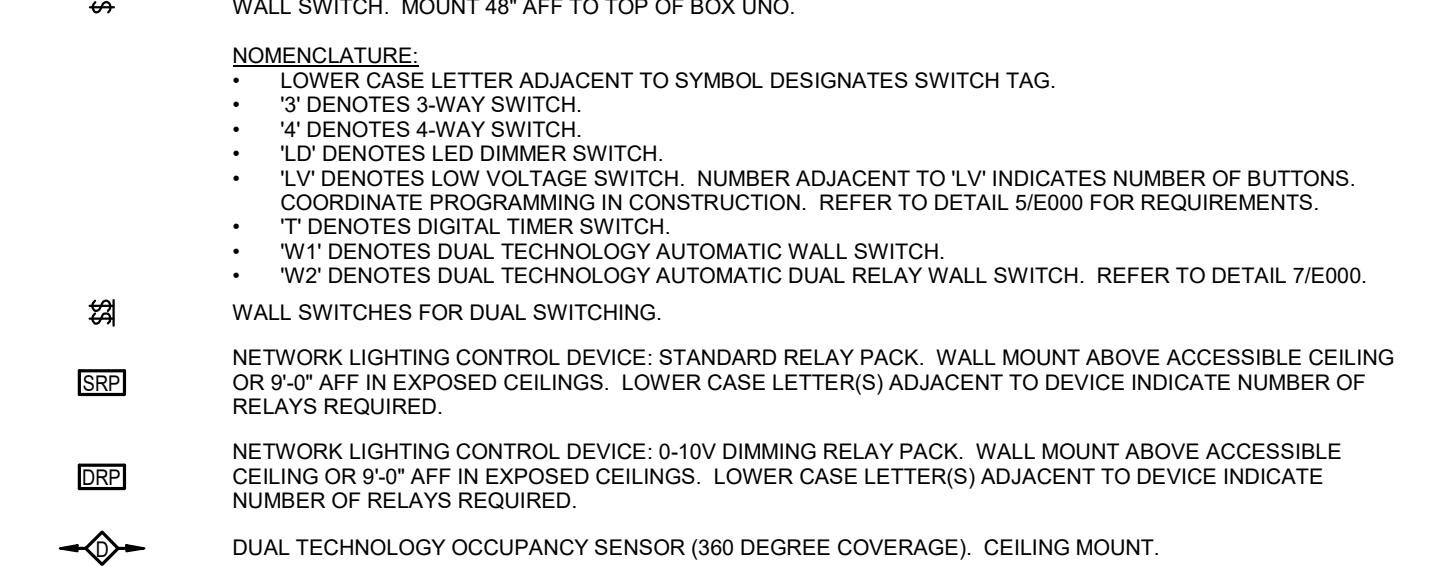


① VOICE/DATA OUTLET ROUGH-IN REQUIREMENTS  
NOT TO SCALE

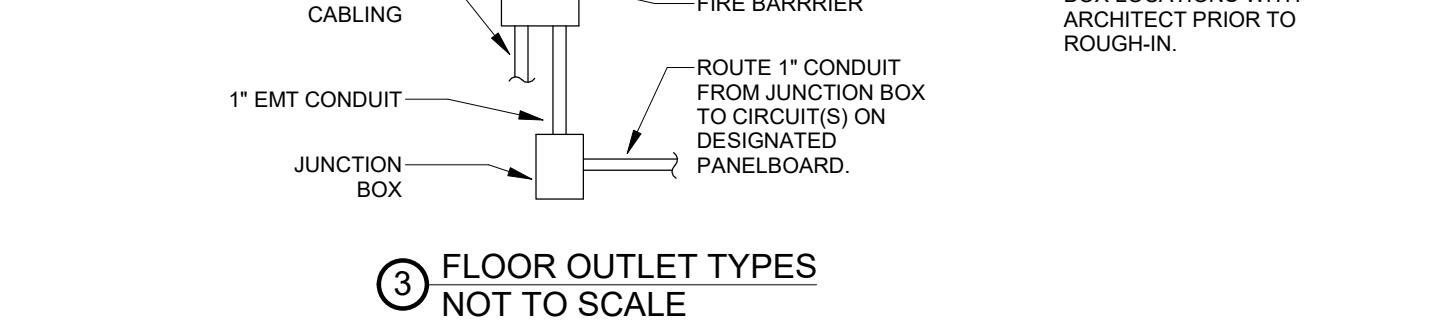


② COPPER GROUND BUS MOUNTING  
NOT TO SCALE

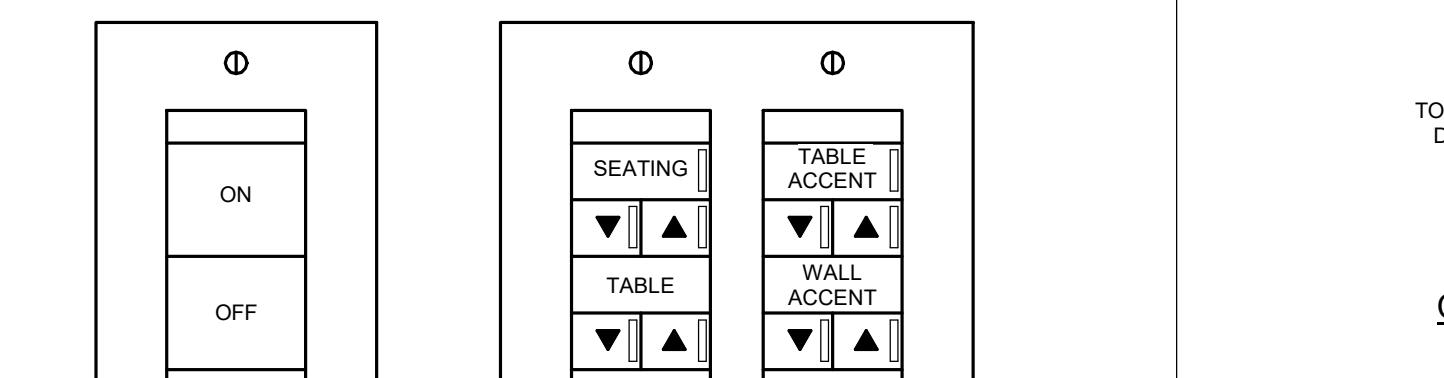
## LIGHTING CONTROLS



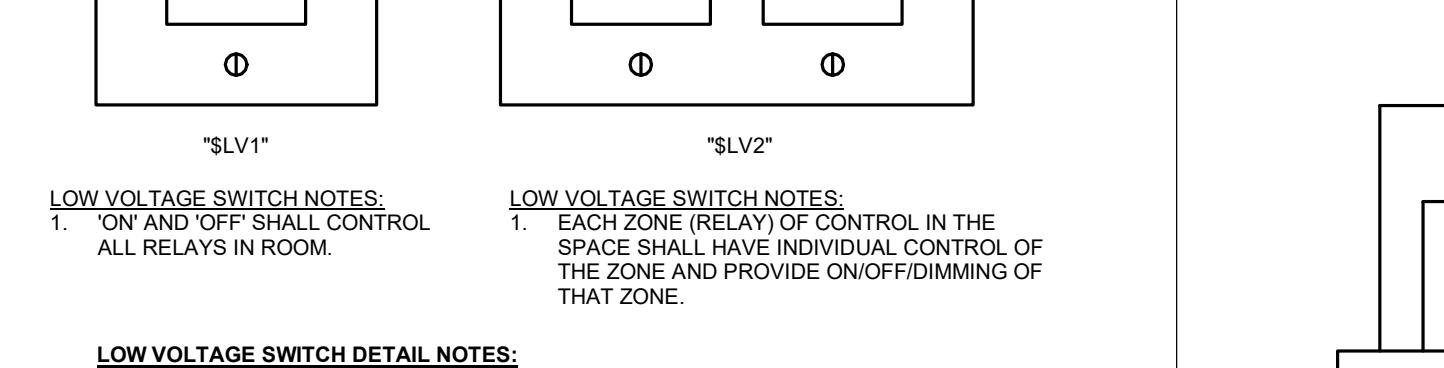
④ NAMEPLATE DETAIL - PANELBOARDS  
NOT TO SCALE



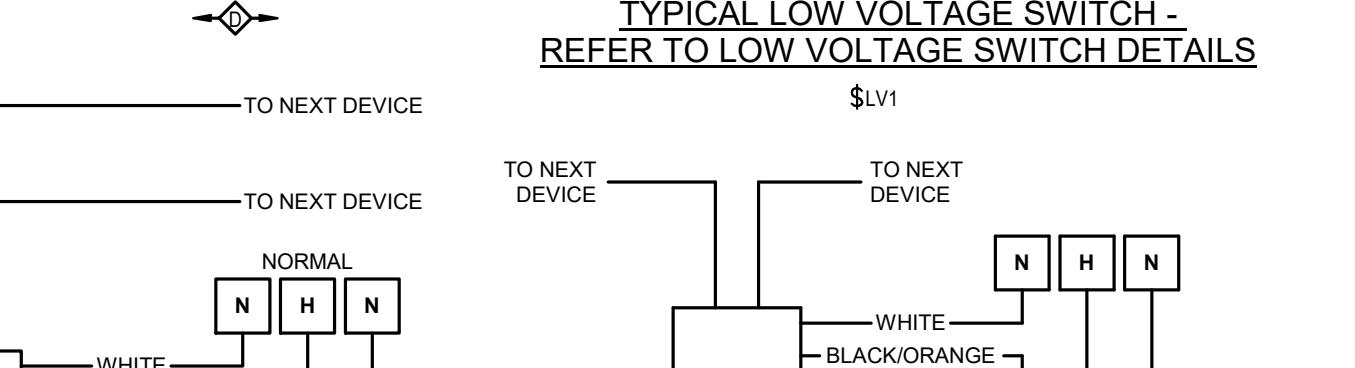
③ FLOOR OUTLET TYPES  
NOT TO SCALE



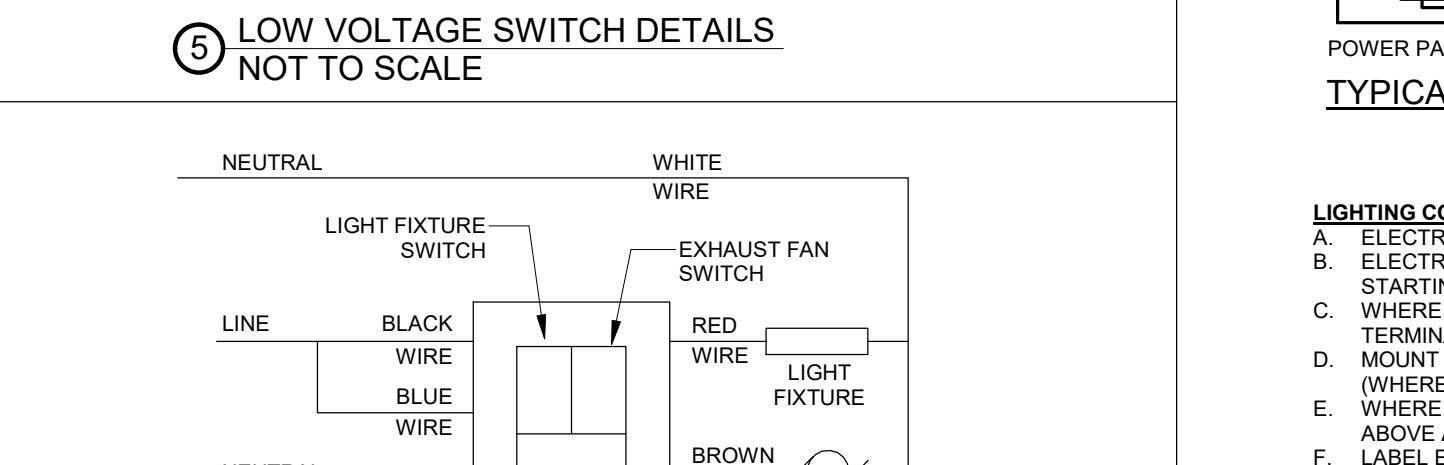
⑤ LOW VOLTAGE SWITCH DETAILS  
NOT TO SCALE



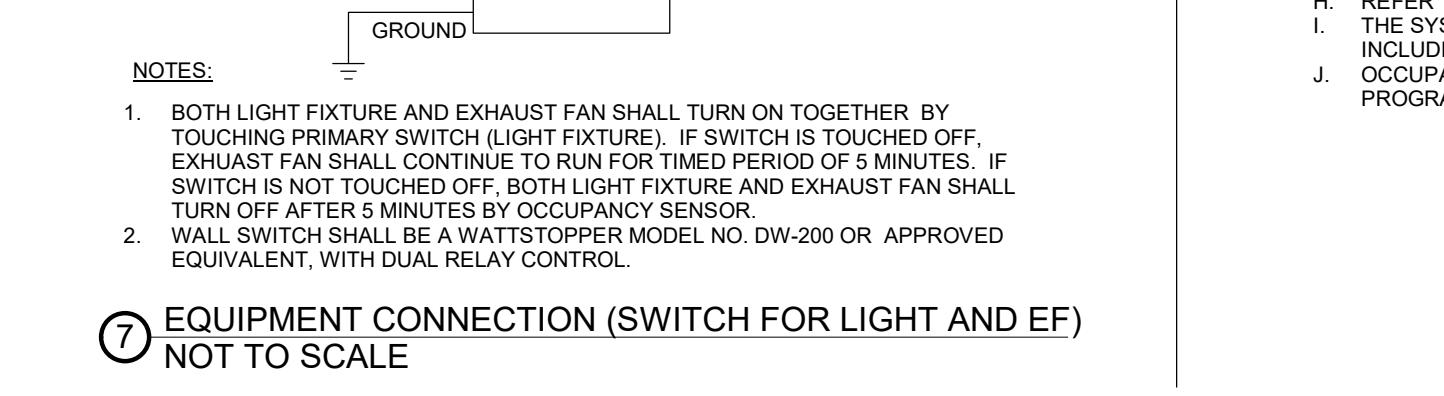
⑥ LOW VOLTAGE SWITCH DETAIL NOTES  
NOT TO SCALE



⑦ TYPICAL STANDARD RELAY PACK  
NOT TO SCALE



⑧ LIGHTING CONTROL DETAILS  
NOT TO SCALE



⑨ EQUIPMENT CONNECTION (SWITCH FOR LIGHT AND EF)  
NOT TO SCALE

## FAYETTE COUNTY COURTHOUSE

PREPARED FOR  
CITY OF UNIONTOWN, FAYETTE COUNTY  
PENNSYLVANIA

## CONFERENCE ROOM EXPANSION

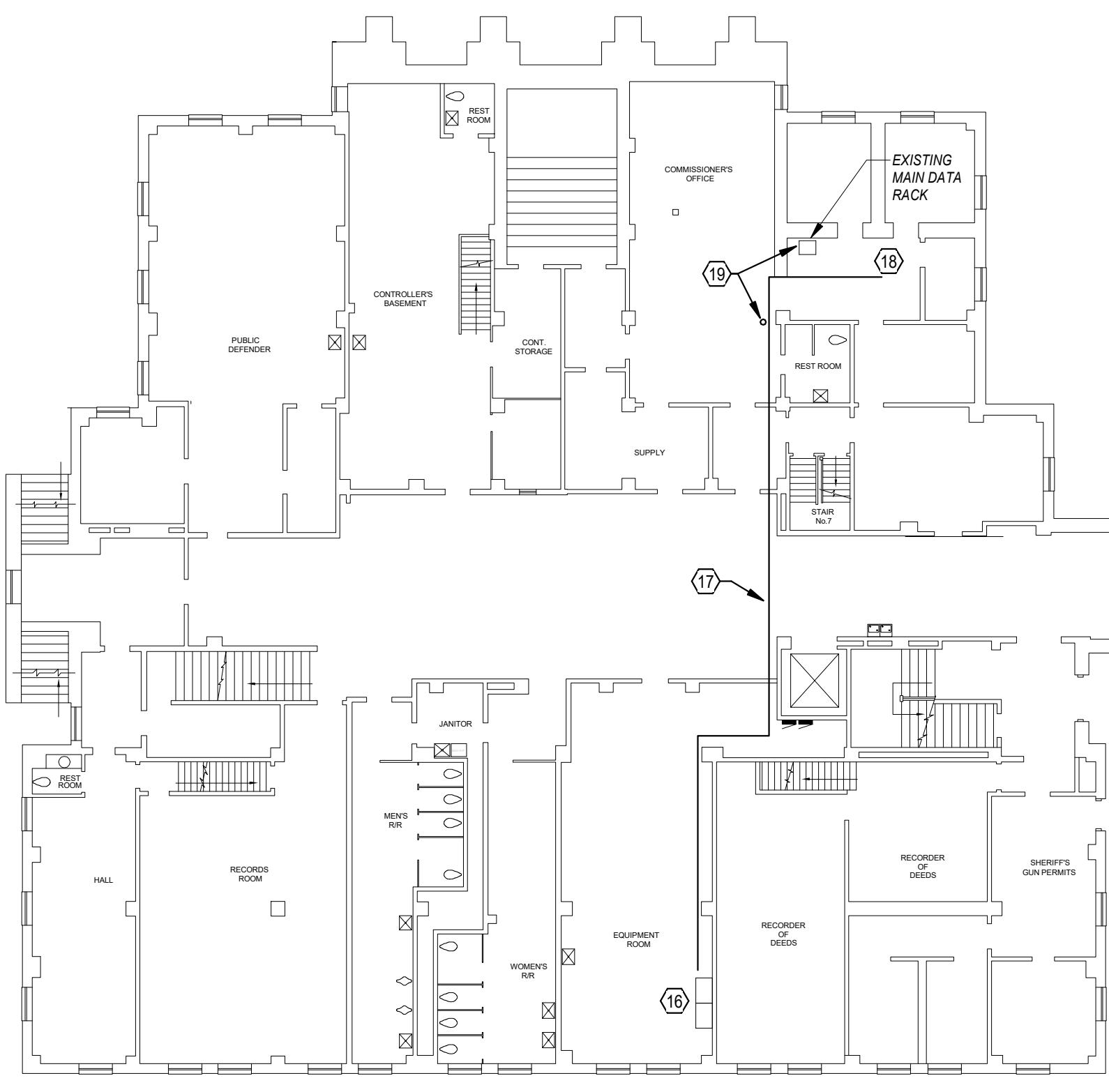
COMMISSIONERS  
FAYETTE COUNTY

## SYMBOLS, ABBREVIATIONS, GENERAL NOTES & DETAILS

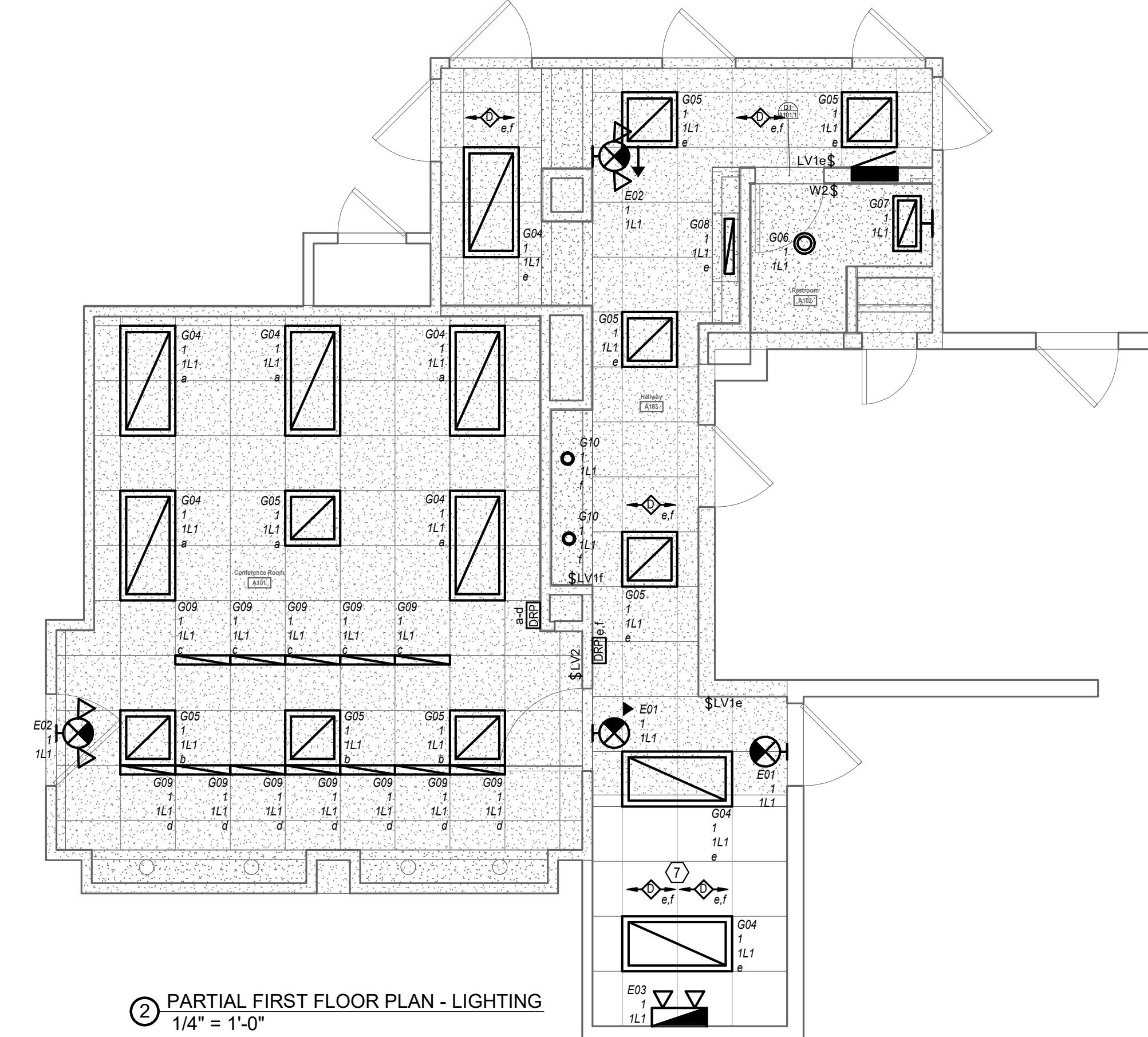
BOOK NO. 2020-105  
DRAWN BY JCW 8/17/20 APPROVED BY JCW 8/17/20  
DESIGNED BY JCW 8/17/20 APPROVED BY JCW 8/17/20  
SCALE 1:100 SHEET NUMBER E000  
As indicated



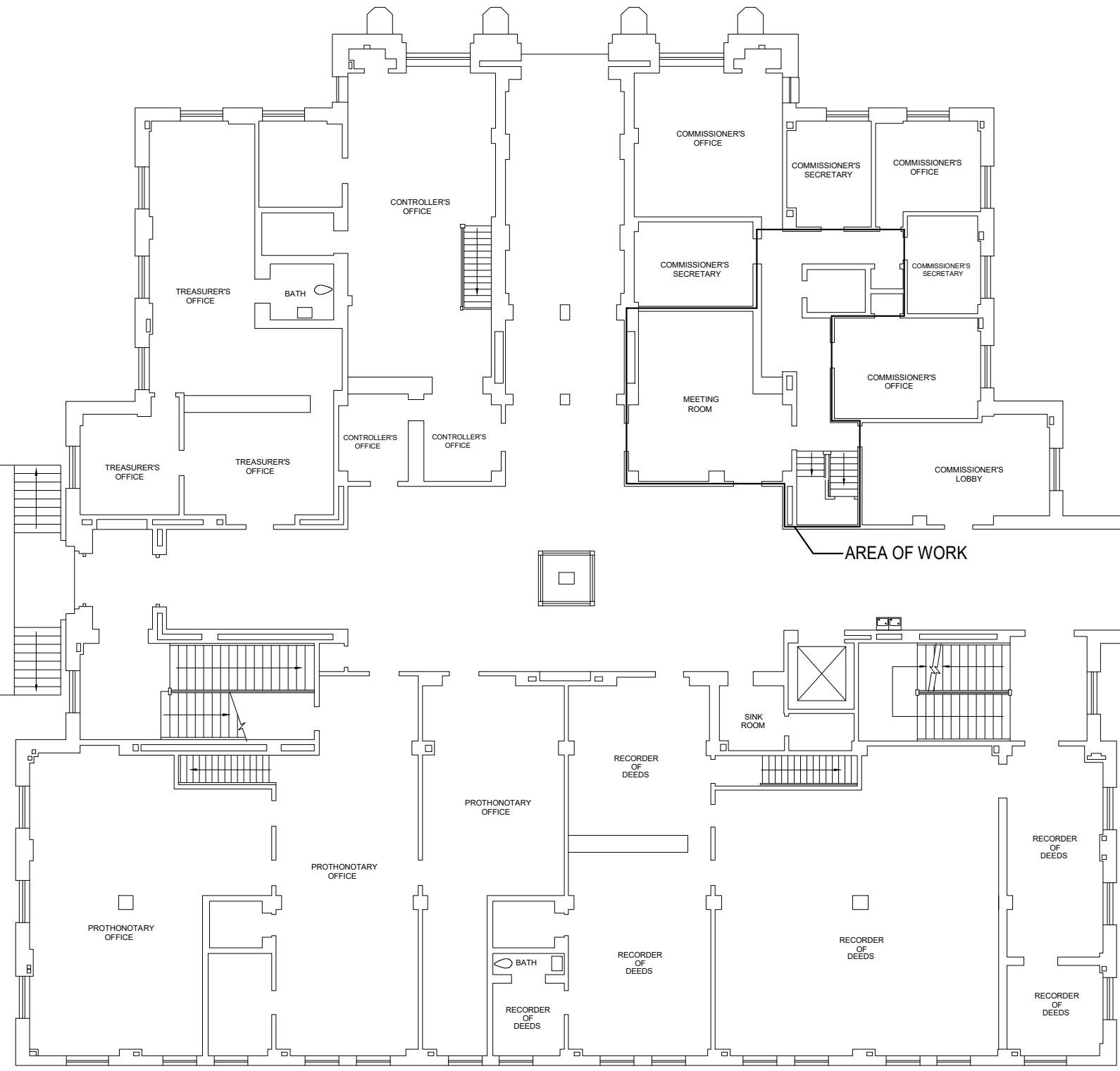
115 Wayland Smith Drive, Uniontown, PA 15401  
Phone: (724) 439-6100 Email: info@mcmullen.com



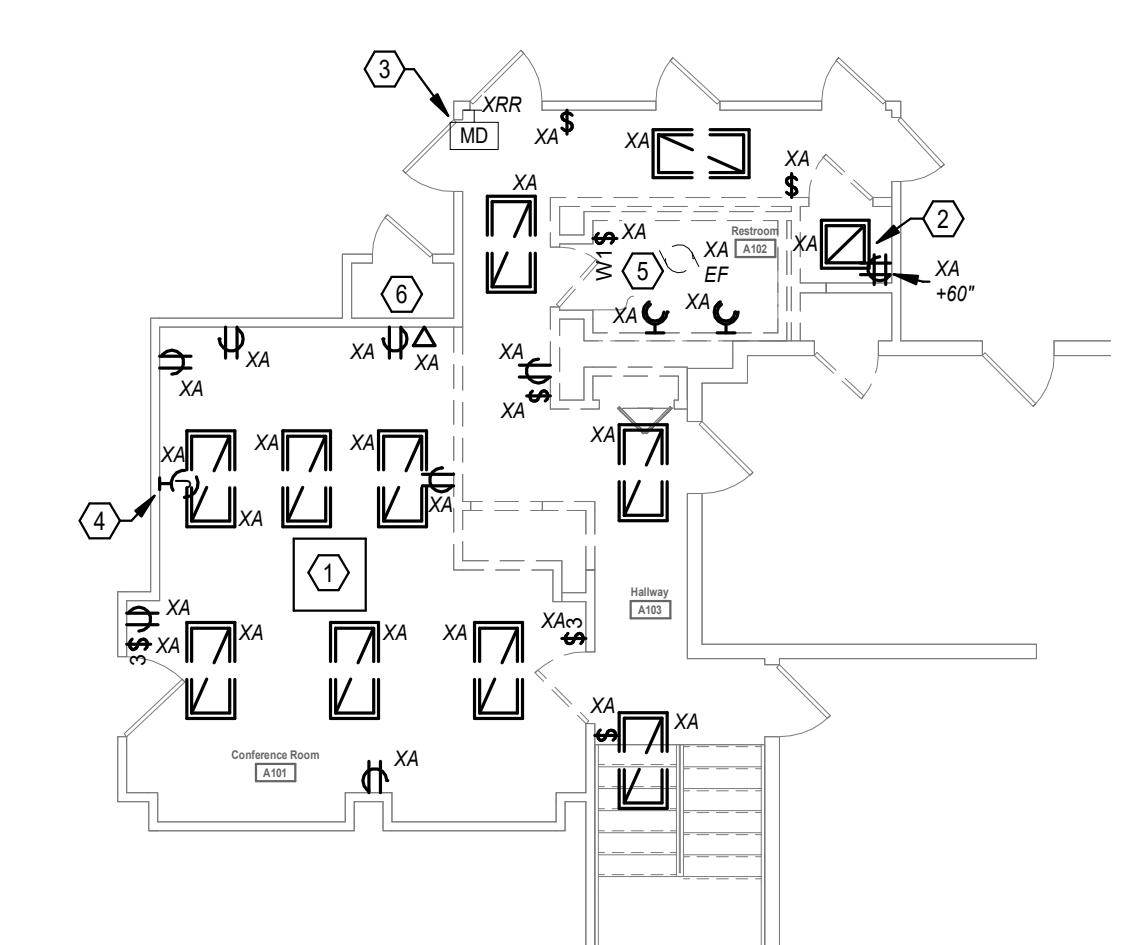
BASEMENT FLOOR PLAN



② PARTIAL FIRST FLOOR PLAN - LIGHTING  
1/4" = 1'-0"



FIRST FLOOR PLAN



① PARTIAL FIRST FLOOR PLAN - DEMOLITION  
1/8" = 1'-0"

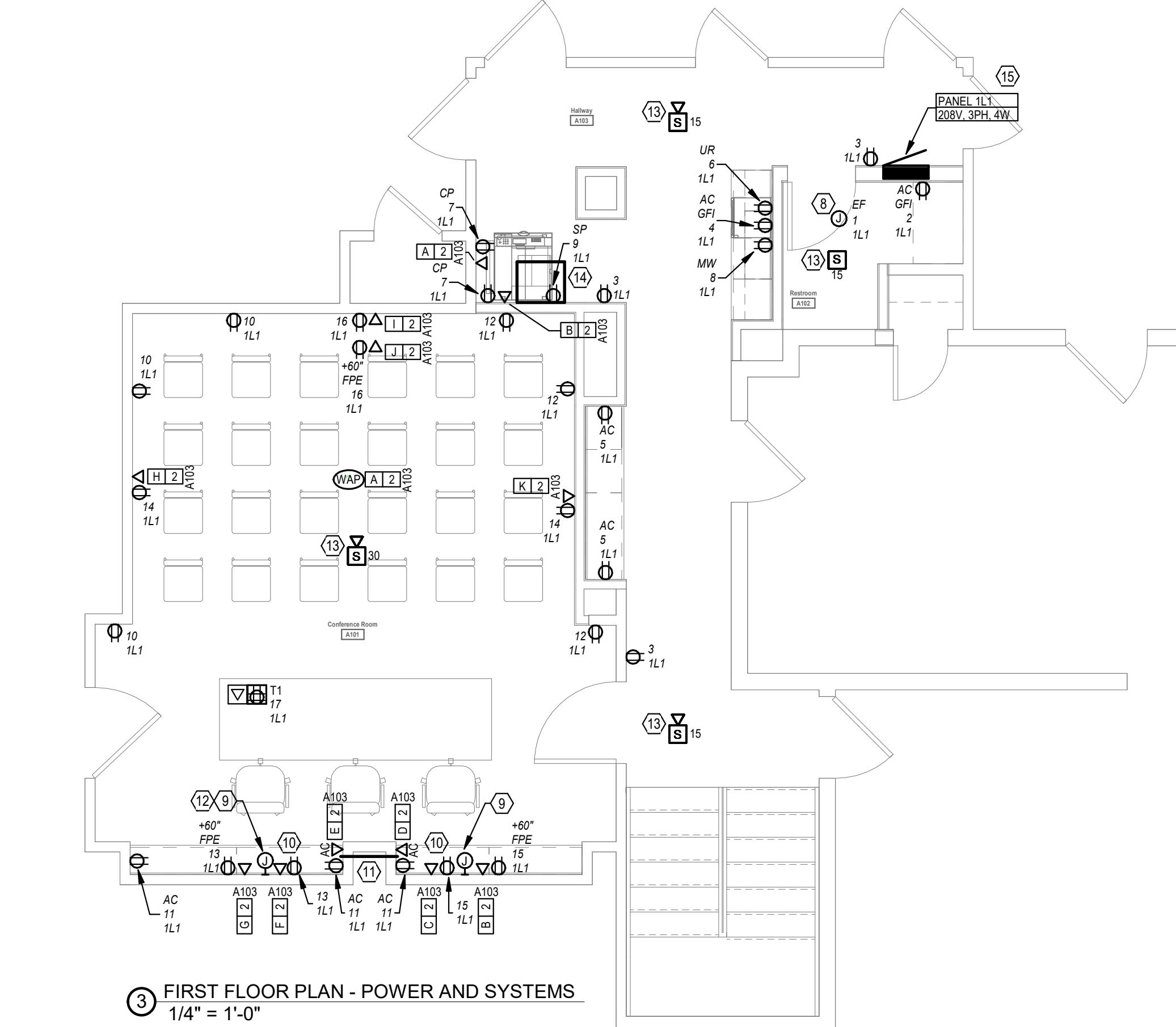
④ OVERALL PLANS  
1/16" = 1'-0"

CODED NOTES SHEET E100

- EXISTING CEILING MOUNTED SPiT FAuN COIL UNIT SHALL REMAIN.
- REMOVE EXISTING WALL MOUNTED PATCH PANEL FOR DATA NETWORK CABLEING AND REMOVE ALL INACTIVE CAT 5 CABLEING ORIGINATING FROM THE PATCH PANEL. PROVIDE A NEW 100A 3PH CIRCUIT BREAKER FOR THIS 15 CABLES CONNECTED. ALL ACTIVE CABLEING SHALL BE REMOVED AND REROUTED TO NEW DATA NETWORK CABINET. REMOVE FINGER DUCT ON WALL AT THIS LOCATION.
- EXISTING SECURITY SYSTEM MOTION DETECTOR SHALL BE REMOVED AND RELOCATED TO A NEW LOCATION.
- REMOVE EXISTING CABLEING PUNCHDOWN BLOCKS BEHIND ACCESS PANEL LOW ON WALL AND REMOVE ALL TRUNK CABLEING BACK TO POINT OF ORIGIN. REMOVE ALL BRANCH CABLEING TO END DEVICES FROM THIS LOCATION AS MUCH AS POSSIBLE.
- MOVE EXISTING FAuN CONNECTION TO EXHAUST DUCT. EXHAUST DUCT SHALL REMAIN FOR REUSE.
- REMOVE ANPHENOL CONNECTION HANGING OUT OF WALL BACK TO POINT OF ORIGIN. PROVIDE A BLANK COVERPLATE ON BACK BOX.
- PROVIDE A SECOND CEILING MOUNTED OCCUPANCY SENSOR ON CEILING OF BASEMENT LEVEL IN STAIRWELL. OCCUPANCY SENSOR IN BASEMENT LEVEL IN STAIRWELL SHALL BE REMOVED. PROVIDE A NEW 100A 3PH CIRCUIT BREAKER FOR THIS 15 CABLES CONNECTED. ALL ACTIVE CABLEING FROM BASEMENT LEVEL TO ACCESSIBLE CEILING OF FIRST FLOOR IN 3/4" EMT CONDUIT. ROUTE CONDUIT CONCEALED WHERE POSSIBLE.
- PROVIDE NEW CEILING EXHAUST FAuN SIMILAR TO GREENHECK MODEL 100-CM, FAN RPM 807, 0.25 INCH INTERNAL PRESSURE DROP, 50 WATTS AND 115V/1PH. TIE 6" ROUND NEW DUCTWORK FROM EXHAUST FAuN DISCHARGE TO EXISTING EXHAUST DUCT. EXHAUST FAuN SHALL BE CONTROLLED BY LIGHT SWITCH.
- PROVIDE A 1 1/4" EMT CONDUIT FROM BOTTOM SINGLE-GANG OPENING OF CEILING MOUNTED FAuN TO FAuN. PROVIDE A NYLON BUSHING ON EACH END OF CONDUIT AND PROVIDE A FULL WIRE IN CONDUIT.
- CUT OUT REAR PANEL OF BASE CABINET TO MOUNT DEVICES SHOWN AT 18" AFF. PROVIDE BOX EXTENSIONS AS REQUIRED TO SET BACK BOX FLUSH WITH BACK WALL OF BASE CABINET.

CODED NOTES SHEET E100

- EXISTING CEILING MOUNTED SPiT FAuN COIL UNIT SHALL REMAIN.
- REMOVE EXISTING WALL MOUNTED PATCH PANEL FOR DATA NETWORK CABLEING AND REMOVE ALL INACTIVE CAT 5 CABLEING ORIGINATING FROM THE PATCH PANEL. PROVIDE A NEW 100A 3PH CIRCUIT BREAKER FOR THIS 15 CABLES CONNECTED. ALL ACTIVE CABLEING SHALL BE REMOVED AND REROUTED TO NEW DATA NETWORK CABINET. REMOVE FINGER DUCT ON WALL AT THIS LOCATION.
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③ FIRST FLOOR PLAN - POWER AND SYSTEMS  
1/4" = 1'-0"

PANELBOARD SCHEDULE										
VOLTAGE: 208V, 3PH, 4W SIZE/TYPE BUSSING: 100A COPPER SIZE/TYPE MAIN: 100 A MCB			PANEL TAG: 1L1 LOCATION: Hallway A103 FED FROM:			MIN. SCCR: 10,000 MOUNTING: RECESSED OPTIONS:				
LOAD DESCRIPTION	RATING	NO. OF POLES	POS. NO.	A	B	C	POS. NO.	NO. OF POLES	RATING	LOAD DESCRIPTION
LIGHTING A101, A102, A103, EX. FAN	20 A	1	1	1377 VA / 180 VA			2	1	20 A	RECEPTACLE A102
RECEPTACLE A103	20 A	1	3	540 VA / 180 VA			4	1	20 A	RECEPTACLE A102 KITCHENETTE
RECEPTACLE A103 COPIER	20 A	1	5		360 VA / 180 VA	6	1	20 A	RECEPTACLE A102 UNDERCOUNTER REFRIG	
RECEPTACLE A103 DATA CABINET	20 A	1	9	360 VA / 540 VA			8	1	20 A	RECEPTACLE A102 MICROWAVE
RECEPTACLE A101	20 A	1	11		540 VA / 540 VA	12	1	20 A	RECEPTACLE A101	
RECEPTACLE A101	20 A	1	13	360 VA / 360 VA			14	1	20 A	RECEPTACLE A101
RECEPTACLE A101 FLOOR BOX	20 A	1	15	360 VA / 360 VA			16	1	20 A	RECEPTACLE A101
SPARE	20 A	1	17		360 VA / 0 VA	18	1	20 A	SPARE	
SPARE	20 A	1	19	0 VA / 0 VA			20	1	20 A	SPARE
SPARE	20 A	1	21		0 VA / 0 VA	22	1	20 A	SPARE	
SPARE	20 A	1	23		0 VA / 0 VA	24	1	20 A	SPARE	
SPARE	20 A	1	25	0 VA / 0 VA			26	1	20 A	SPARE
SPARE	20 A	1	27		0 VA / 0 VA	28	1	20 A	SPARE	
SPARE	20 A	1	29		0 VA / 0 VA	30	1	20 A	SPARE	
SPARE	20 A	1	31	0 VA / 0 VA			32	1	20 A	SPARE
SPARE	20 A	1	33		0 VA / 0 VA	34	1	20 A	SPARE	
SPARE	20 A	1	35		0 VA / 0 VA	36	1	20 A	SPARE	
SPACE	--	--	37	0 VA / 0 VA			38	--	--	SPACE
SPACE	--	--	39		0 VA / 0 VA	40	--	--	SPACE	
SPACE	--	--	41		0 VA / 0 VA	42	--	--	SPACE	
CONNECTED LOAD			5277 VA	2340 VA	1980 VA	2740 VA	TOTAL (KW)			9597 VA
TOTAL CONNECTED LOAD (AMPS)							27 A			

LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION						MANUFACTURER / MODEL SERIES				LOCATIONS USED	
	GENERAL	COLOR	MOUNTING	LUMEN OUTPUT	LOAD	VOLTAGE	LAFACE & McGOVERN	REPO ii	ARCHITECTURAL LIGHTING SALES	PAOLICELLI ONE SOURCE	GORMLEY FARRINGTON	
EMERGENCY LIGHTING FIXTURES												
E01	UNIVERSAL MOUNTED SINGLE FACE OR DOUBLE FACE EXIT SIGN, THERMOPLASTIC HOUSING, STENCIL CUT FACEPLATE, RED LETTERS, AND BATTERY BACK UP	WHITE	UNIVERSAL	LED	<5W	120/277	LITHONIA LHM	CHLORIDE CLX WILLIAMS EXIT	SURELITES LPX	COMPASS CE	LIGHTALARMS QLX	
E02	UNIVERSAL MOUNTED SINGLE FACE COMBO EXIT SIGN, THERMOPLASTIC HOUSING, STENCIL CUT FACEPLATE, TWO INTEGRAL LED LAMP HEADS, RED LETTERS, AND HIGH OUTPUT BATTERY TO POWER ONE REMOTE HEAD	WHITE	UNIVERSAL	LED	5W	120/277	LITHONIA LHQM	CHLORIDE CLC	SURELITES LPXC	COMPASS CC	LIGHTALARMS UQLX	
E03	BATTERY OPERATED, THERMOPLASTIC HOUSING, ADJUSTABLE OPTICS, SELF-DIAGNOSTIC, 9V NICAD OR LITHIUM BATTERY, TEST SWITCH WITH INDICATOR LIGHT	WHITE	SURFACE	LED 1000 LUMENS	10.6W	120/277	LITHONIA ELM6L	CHLORIDE TPU LM7	EXITRONIX NFT-HO	DUAL LITE EVHC12	LIGHTALARMS LCA-2RHL	
GENERAL LIGHTING FIXTURES												
G01	NOT USED											
G02	NOT USED											
G03	NOT USED											
G04	RECESSED STATIC HIGH PERFORMANCE 2' X 4' TROFFER WITH TWO ANGLED, DIFFUSE ACRYLIC SHIELDS AND FLAT, CENTER DIFFUSE ACRYLIC SHIELD	WHITE	RECESSED IN GRID	LED 4879 LUMENS	42W	120/277	MARK LIGHTING WHSPER	PINNACLE LU24W	METALUX RLN	VISCOR LRTG	PACO PROW	
G05	RECESSED STATIC HIGH PERFORMANCE 2' X 4' TROFFER WITH TWO ANGLED, DIFFUSE ACRYLIC SHIELDS AND FLAT, CENTER DIFFUSE ACRYLIC SHIELD	WHITE	RECESSED IN GRID	LED 4222 LUMENS	38W	120/277	MARK LIGHTING WHSPR	PINNACLE LU24W	METALUX RLN	VISCOR LRTG	PACO PROW	
G06	6" DIAMETER DOWNLIGHT WITH REGRESSED CUP, INTEGRAL LED, INTEGRAL PLASTIC BAR HANGERS, SELF-FLUSHING, MEDIUM BEAM	WHITE	RECESSED	LED 2000 LUMENS	20W	120/277	GOTHAM EVO	WILLIAMS 6DR	PORTFOLIO LD6B20	PRESCOLITE LF6	ATLANTIC LED6SYL	
G07	24" WALL MOUNTED, WRAP-AROUND LENS FIXTURE WITH STEEL HOUSING AND PRISMATIC LENS	WHITE	WALL MOUNTED ABOVE MIRROR	LED 3026 LUMENS	27W	120/277	LUMINAIRE LTG. LVP524	KENALL R5	FAILSAFE FVS4	COLUMBIA CWM	CGF DESIGN E02	
G08	24" UNDERCABINET LIGHT WITH STEEL HOUSING, INTEGRAL ROCKER SWITCH, AND OCCUPANCY SENSOR	WHITE	SURFACE	LED 1221 LUMENS	13W	120/277	HEALTHCARE LTG HUC523	KENALL AUCLED	FAILSAFE UCL	COLUMBIA CUC2		
G09	24" RECESSED, DIRECTIONAL WALL WASH FIXTURE WITH GRID TRIM AND ANGLED, FROSTED LENS	WHITE	RECESSED IN GRID	LED 5373 LUMENS	49W	120/277	FINELITE HPW-LED	ELLIPTIPAR S224	NEORAY 23XR	ALW LTG. LP3.5RWWT		
G10	PENDANT FIXTURE WITH GLASS SHADE AND DIVERTER LOCATED IN CANOPY. PROVIDE AIR CRAFT CABLE SUPPORT FROM CANOPY.	FROST GLASS	PENDANT MTD 24" BELOW CEILING TO BOTTOM OF SHADE	LED 500 LUMENS	8W	120	TECH LTG. 700-FJ-F-S	BRUCK LTG. 223-179				

OVERALL AND PARTIAL FIRST FLOOR PLANS ELECTRICAL

BOOK NO. 2020-105  
DRAWN BY JCW 8/17/20 TSB 8/17/20  
DESIGNED BY JCW 8/17/20 APPROVED BY JCW 8/17/20  
SCALE As indicated  
SHEET NUMBER E100

PREPARED FOR  
FAYETTE COUNTY COURTHOUSE  
CITY OF UNIONTOWN, PENNSYLVANIA  
Pennsylvania

CONFERENCING ROOM EXPANSION  
COMMISSIONERS  
CITY OF UNIONTOWN, PA

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