GLAZER ARCHITECTURE, PA

Morganton Community House PHASE II

120 North King Street MORGANTON, NC

ARCHITECT:

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20 BATTERY PARK AVENUE. FLAT IRON BUILDING STE. 706
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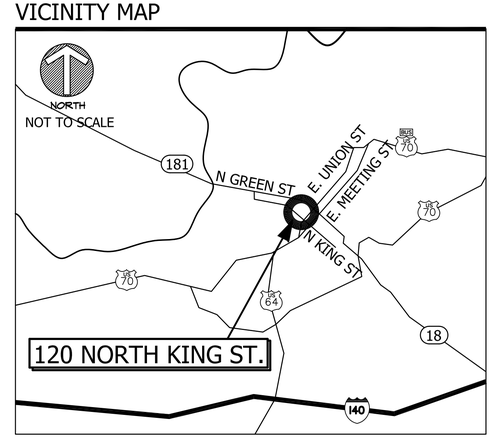
PERMIT NOTES:

1. THIS PHASE II PERMIT WILL CONSIST OF:
   - RELOCATING CODE-COMPLIANT MENS AND WOMENS TOILET ROOMS
   - REPLACING/UPGRADING OF BUILDING SYSTEMS
   - RENOVATION OF LOWER FLOOR INTO MEETING AND STORAGE ROOMS
   - ADDITION OF AN ELEVATOR
   - INTERIOR COSMETIC UPGRADES
   - ADDITION OF AN OFFICE AND AV CLOSET
2. THE ORIGINAL BUILDING WAS BUILT IN 1935. THE ADDITION WAS BUILT IN 1980. THEY ARE SEPARATED BY A 4-HOUR FIRE WALL AND THUS, FOR LIFE SAFETY CODE PURPOSES, ARE TREATED AS TWO SEPARATE BUILDINGS.
3. A PORTION OF THE BUILDING MAY REMAIN OCCUPIED BY THE OWNER DURING CONSTRUCTION. SEE PLAN DIAGRAM ON SHEET A-8 FOR PARTIAL OCCUPANCY.

VICINITY MAP



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Morganton Community House PHASE II

120 N. King Street
Morganton, NC

Project Number: 1236
Revisions:

Drawing:
Coversheet

Date: 10/17/16

Sheet Number:
CVR-I

APPENDIX B: BUILDING CODE SUMMARY: TO BE PERMITTED UNDER NC BUILDING CODE 2012 (IBC)

2012 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: RENOVATIONS TO MORGANTON COMMUNITY HOUSE
Address: 120 NORTH KING STREET, MORGANTON, NC Zip Code 28655
Proposed Use: Meetings/ Event Venue – No Change in Use
Owner/Authorized Agent: MICHAEL BURLEY Phone # (828) 438-5362 E-Mail mburley@ci.morganton.nc.us
Owned By: ☒ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☒ City MORGANTON ☐ County_____ ☐ State

LEAD DESIGN PROFESSIONAL: Patti Glazer, Glazer Architecture, PA

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Glazer Architecture, PA	Patti Glazer	3851	(828)254-5853	pg@glazerarchitecture.com
Civil	N/A				
Elecrical	Sud Associates	David Briggs	30835	(828)255-4691	dbriggs@sudassociates.com
Fire Alarm	N/A				
Plumbing	Sud Associates	Jerome Hay	18486	(828)255-4691	jhay@sudassociates.com
Mechanical	Sud Associates	Jerome Hay	18486	(828)255-4691	jhay@sudassociates.com
Sprinkler-Standpipe	N/A			( )	
Structural	Mady Engineering	Dan Mady	22178	(828)628-2577	danmady1@gmail.com
Retaining Walls >5' High				( )	
Other (LA)					

2012 EDITION OF NC CODE FOR: ☐ New Construction ☐ Addition ☒ Upfit
EXISTING: ☐ Reconstruction ☐ Alteration ☒ Repair ☒ Renovation
CONSTRUCTED: (date) 1935 & 1980 **ORIGINAL USE(S)** (Ch. 3): Assembly Occupancy
RENOVATED: (date) 1953 & 1980 **CURRENT USE(S)** (Ch. 3): Assembly – no change
PROPOSED USE(S) (Ch. 3): Assembly – no change

NOTE: BUILDING IS DIVIDED BY A 4-HOUR FIRE WALL, WITH TYPE III-A CONSTRUCTION ON ONE SIDE AND TYPE III-B ON THE OTHER SIDE OF FIRE WALL. NO ADDITIONAL SF.

BASIC BUILDING DATA
Construction Type: (check all that apply) ☐ I-A ☐ I-B ☐ II-A ☐ II-B ☒ III-A Fire Area 2 ☒ III-B Fire Area 1 ☐ IV ☐ V-A ☐ V-B
Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☐ No ☐ Yes (Primary) **Flood Hazard Area:** ☒ No ☐ Yes
Building Height: (feet) 30 FT
Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
Fire Area 1 (1 orig bldg)			
Main Floor	5,857	-	
Basement	1,162	-	
Total Fire Area 1	7,019 SF	-	
Fire Area 2 (1980 bldg)			
Main Floor	3,338	-	
Basement	3,342	-	
Total Fire Area 2	6,680 SF	-	

ALLOWABLE AREA

Occupancy:
Assembly ☐ A-1 ☒ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☒ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancies: N/A
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Incidental Uses (Table 508.2.5): **N/A**
☐ Furnace room where any piece of equipment is over 400,000 Btu per hour input
☐ Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower
☐ Refrigerant machine room
☐ Hydrogen cutoff rooms, not classified as Group H
☐ Incinerator rooms
☐ Paint shops, not classified as Group H, located in occupancies other than Group F
☐ Laboratories and vocational shops, not classified as Group H, located in a Group E or I-2 occupancy
☐ Laundry rooms over 100 square feet
☐ Group I-3 cells equipped with padded surfaces
☐ Group I-2 waste and linen collection rooms
☐ Waste and linen collection rooms over 100 square feet
☐ Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies
☐ Rooms containing fire pumps
☐ Group I-2 storage rooms over 100 square feet
☐ Group I-2 commercial kitchens
☐ Group I-2 laundries equal to or less than 100 square feet
☐ Group I-2 rooms or spaces that contain fuel-fired heating equipment

Special Uses: ☐ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411 ☐ 412 ☐ 413 ☐ 414 ☐ 415 ☐ 416 ☐ 417 ☐ 418 ☐ 419 ☐ 420 ☐ 421 ☐ 422 ☐ 423 ☐ 424 ☐ 425 ☐ 426 ☐ 427

Special Provisions: ☐ 509.2 ☐ 509.3 ☐ 509.4 ☐ 509.5 ☐ 509.6 ☐ 509.7 ☐ 509.8 ☐ 509.9
Mixed Occupancy: ☐ No ☒ Yes Separation: N/A Htr. Exception: 508.3)
☐ Incidental Use Separation (508.2.5)

This separation is not exempt as a Non-Separated Use (see exceptions).
☒ Non-Separated Use (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
☐ Separated Use (508.4) - See below for area calculations
For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

_____ + _____ + …… = _____ ≤ 1.00

ALLOWABLE HEIGHT – FIRE AREA 1

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type III-B		Type III-B	
Building Height in Feet	55	Feet = H + 20' = _____	30	
Building Height in Stories	2	Stories + 1 = _____	1 plus Basement	

ALLOWABLE HEIGHT – FIRE AREA 2

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type III-A		Type III-A	
Building Height in Feet	65	Feet = H + 20' = _____	30	
Building Height in Stories	3	Stories + 1 = _____	1 plus Basement	

FIRE PROTECTION REQUIREMENTS – FIRE AREA 1 (TYPE III-B)

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/_____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North	NA	NA	2ExistMasonry				
East	>30	2	2ExistMasonry				
West	>30	2	2 ExistMasonry				
South	NA	NA	2ExistMasonry				
Interior							
Nonbearing Walls and Partitions Exterior walls							
North	8 feet	0	2ExistMasonry				
East	NA	NA	2ExistMasonry				
West	NA	NA	2ExistMasonry				
South	>30	0	2ExistMasonry				
Interior walls and partitions							
Floor Construction Including supporting beams and joists		0	0				
Roof Construction Including supporting beams and joists		0	0				
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation		NA	-				
Occupancy Separation		NA	-				
Party/**Fire Wall Separation**		4 Hour	Existing concrete &brick				
Smoke Barrier Separation							
Tenant Separation		NA	-				
Incidental Use Separation		NA	-				

* Indicate section number permitting reduction

FIRE PROTECTION REQUIREMENTS – FIRE AREA 2 (TYPE III-A)

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/_____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North	NA	NA	2ExistMasonry				
East	>30	2	2ExistMasonry				
West	>30	2	2 ExistMasonry				
South	NA	NA	2ExistMasonry				
Interior							
Nonbearing Walls and Partitions Exterior walls							
North		0	2ExistMasonry				
East	NA	NA	2ExistMasonry				
West	NA	NA	2ExistMasonry				
South	>30	0	2ExistMasonry				
Interior walls and partitions							
Floor Construction Including supporting beams and joists		1	1 Exist rated Assembly per 1980 drawings				
Roof Construction Including supporting beams and joists		1	1 Exist rated Assembly				
Shaft Enclosures - Exit		1	1 hr - Exist cmu				
Shaft Enclosures - Other							
Corridor Separation		1	1 hr				
Occupancy Separation		NA	-				
Party/**Fire Wall Separation**		4 Hour	Existing concrete &brick				
Smoke Barrier Separation		NA					
Tenant Separation		NA					
Incidental Use Separation		NA					

* Indicate section number permitting reduction

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes
Fire Alarm: ☐ No ☒ Yes
Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial _____
Panic Hardware: ☐ No ☒ Yes at enclosed stairwell

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: CVR-II

☒ Fire and/or smoke rated wall locations (Chapter 7)
☒ Assumed and real property line locations
☒ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☒ Existing structures within 30' of the proposed building
☒ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1)
☒ Occupant loads for each area
☒ Exit access travel distances (1016)
☒ Common path of travel distances (1014.3 & 1028.8) - NONE
☒ Dead end lengths (1018.4) -20' > x
☒ Clear exit widths for each exit door
☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.1)
☒ Actual occupant load for each exit door
☒ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation -N/A
☒ Location of doors with panic hardware (1008.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1008.1.9.7) - N/A
☐ Location of doors with electromagnetic egress locks (1008.1.9.8) – N/A
☐ Location of doors equipped with hold-open devices - N/A
☐ Location of emergency escape windows (1029) -N/A
☒ The square footage of each fire area (902)
☐ The square footage of each smoke compartment (407.4) – N/A
☒ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE PARKING – PROVIDED IN ADJACENT PUBLIC LOT – NO CHANGE
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED: REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
TOTAL						

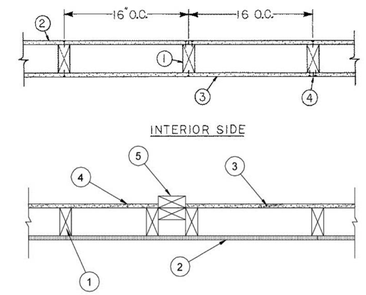
UL FIRE RATINGS

NOTE: CONTRACTOR TO BUILD RATED WALL AS PRESCRIBED IN THE UL LISTING. NO SUBSTITUTIONS IN MATERIAL OR BRANDS LISTED. CONSULT ARCHITECT IF ALTERNATE ASSEMBLY IS PROPOSED.

Design No. U337

Bearing Wall Rating — 1 HR.

Finish Rating — See Item 2



1. **Wood Studs —** Nominal 2 by 4 in. spaced 16 in. on center, effectively cross braced at mid-height and fire stopped at top and bottom.

2. **Gypsum Board* —** 5/8 in. thick, 4 ft wide, applied vertically. Gypsum board attached to studs and bearing plates with 1-3/4 in. long galv nails with 0.128 in. diam shank and 7/16 in. diam head, spaced 8 in. on center.

GEORGIA-PACIFIC GYPSUM L L C — Type DGG (finish rating 20 min), Type DAP, DAPC , DD, DS.

3. **Gypsum Board* —** 5/8 in. thick, 4 ft wide, applied vertically. Gypsum board attached to studs and bearing plates with 1-3/4 in. long galv nails with 0.128 in. diam shank and 7/16 in. diam head, spaced 8 in. on center.

ACADIA DRYWALL SUPPLIES LTD — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO — Types AGX-1 (finish rating 23 min.), M-Glass (finish rating 23 min.), AG-C.

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min).

CERTAINTEED GYPSUM INC — Type EGRG or GlasRoc (finish rating 23 min), Type SilentFX (finish rating 24 min).

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC2A, Type LGFC6A (finish rating 34 min), Type LGFC-C/A, Type LGFC-WD, Type LGLLX.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, Type DGG (finish rating 20 min), Type GPFS2 (finish rating 24 min), Type GPF56 (finish rating 20 min), Type DS, Type DAP, Type DD (finish rating 20 min), DA, DAPC, LS (finish rating 23 min), TG-C, Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min), Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W.

NATIONAL GYPSUM CO — Types FSK, FSMR-C, FSW, FSW-3, FSW-6, FSW-8, FSL.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-9, PG-11, PGS-WRS.

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

3A. **Gypsum Board* —** (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

AMERICAN GYPSUM CO — Types AGX-1 (finish rating 23 min.), M-Glass, AG-C.

3B. **Gypsum Board* —** (As an alternate to Items 3, and 3A) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-

1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed as described in Item 3. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

GEORGIA-PACIFIC GYPSUM L L C — GreenGlass Type X, Type DGG.

3C. **Gypsum Board* —** As an alternate to Items 3, 3A, and 3B,) - 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC thereafter.

UNITED STATES GYPSUM CO — Type USGX (finish rating 22 min).

3D. **Gypsum Board* —** (As an alternate to Items 3 through 3C) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 3.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES.

3E. **Gypsum Board* —** (As an alternate to Item 3) — 5/8 in. thick, 4 ft. wide, applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3.

CERTAINTEED GYPSUM INC — 5/8" Easi-Lite Type X (finish rating 24 min)

3F. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 3 through 3E) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 3.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

3G. **Gypsum Board* —** (As an alternate to 5/8 in. Type FSW in Item 3) - 2 layer Nom. 5/16 in. thick gypsum panels applied vertically. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in item 3, spaced 24 in. OC. Outer layer attached per Item 3.

NATIONAL GYPSUM CO — Type FSW.

4. **Joints and Nailheads —** Exposed or covered with paper tape and joint compound. For tapered, rounded-edge wallboard, joints covered with paper tape and joint compound.

5. **Non-Bearing Wall Partition Intersection —** (Optional) Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC, vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing

wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

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GLAZER ARCHITECTURE, P.A. REGISTERED ARCHITECTURAL CORPORATION CERT.NO. 51109 NORTH CAROLINA ASHEVILLE, N.C.

PATTI LEE GLAZER REGISTERED ARCHITECT 3851 NORTH CAROLINA ASHEVILLE, N.C.

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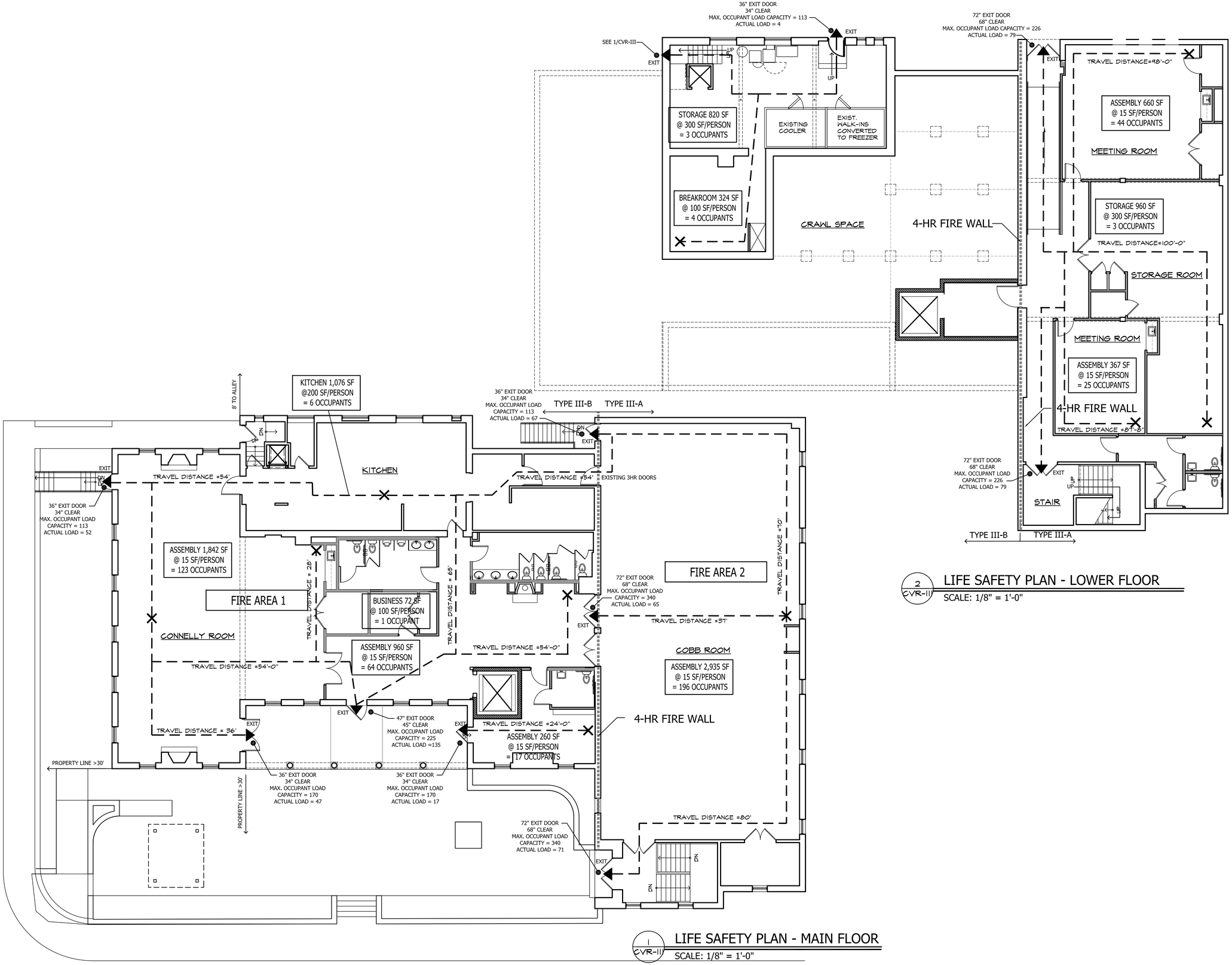

1 CVR-III LIFE SAFETY PLAN - MAIN FLOOR
SCALE: 1/8" = 1'-0"

2 CVR-III LIFE SAFETY PLAN - LOWER FLOOR
SCALE: 1/8" = 1'-0"

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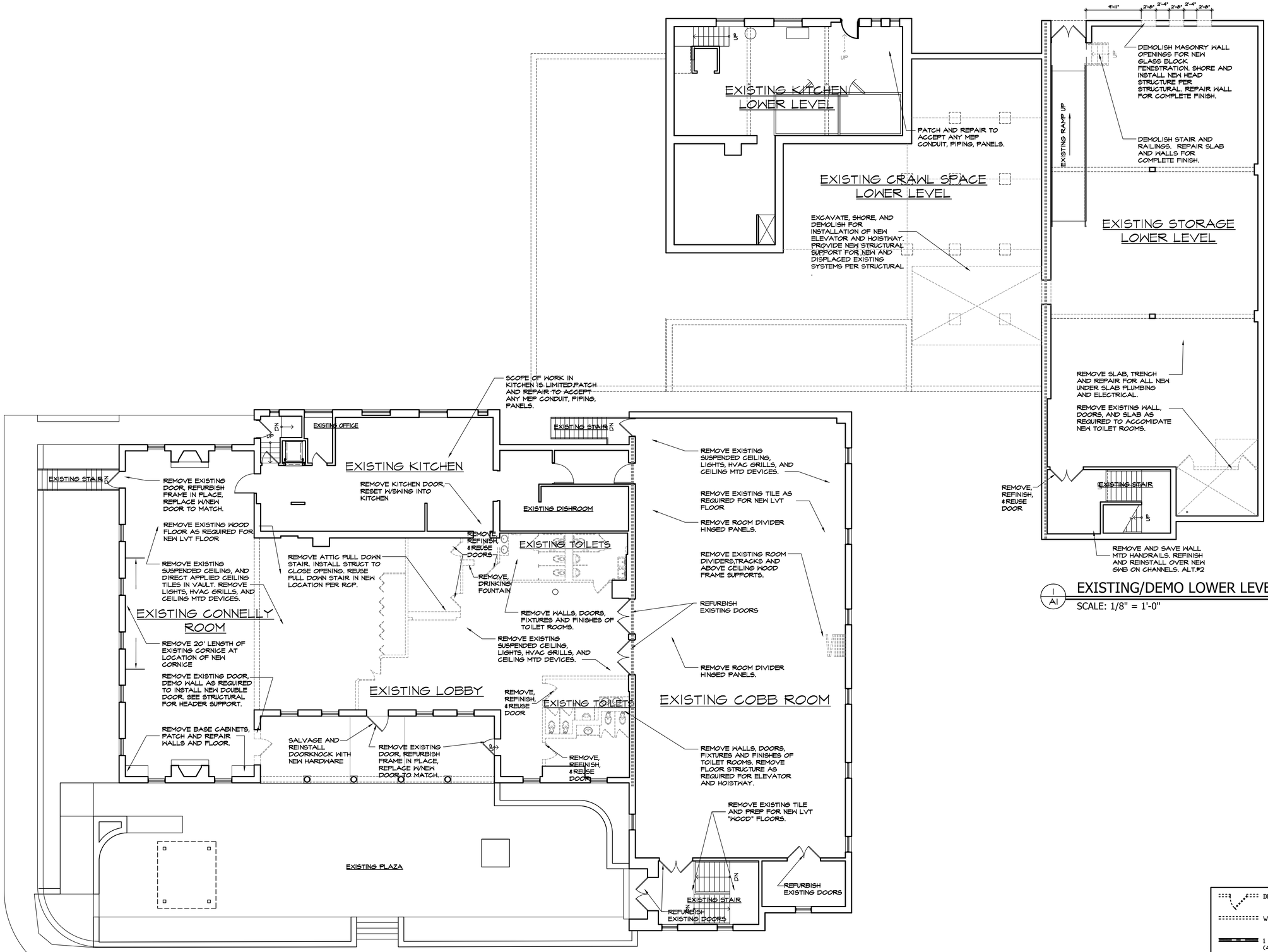
Sheet Number:
CVR-III



2 / A1 EXISTING/DEMO MAIN FLOOR PLAN
SCALE: 1/8" = 1'-0"

1 / A1 EXISTING/DEMO LOWER LEVEL FLOOR PLAN
SCALE: 1/8" = 1'-0"

DOOR TO BE REMOVED

WALL TO BE REMOVED

1 HOUR RATED CORRIDOR (404.1 VOL. IX)

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Morganton Community House PHASE II

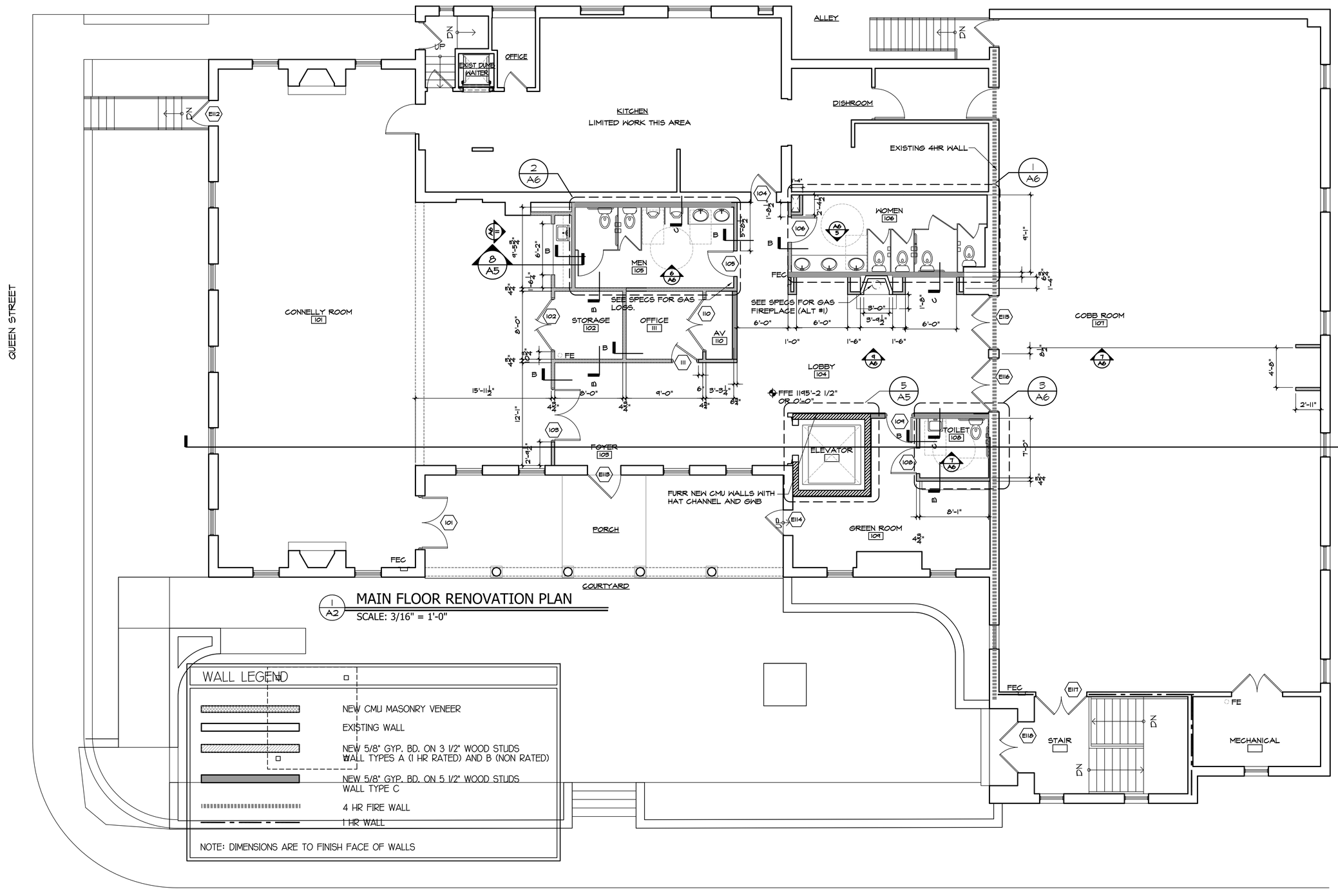
120 N. King Street
Morganton, NC

Project Number: 1236
Revisions:

Drawing:
Existing/Demo Floor Plans
Date: 10/17/16

Sheet Number:

A1



MAIN FLOOR RENOVATION PLAN

SCALE: 3/16" = 1'-0"

WALL LEGEND

- NEW CMU MASONRY VENEER
- EXISTING WALL
- NEW 5/8" GYP. BD. ON 3 1/2" WOOD STUDS WALL TYPES A (1 HR RATED) AND B (NON RATED)
- NEW 5/8" GYP. BD. ON 5 1/2" WOOD STUDS WALL TYPE C
- 4 HR FIRE WALL
- 1 HR WALL

NOTE: DIMENSIONS ARE TO FINISH FACE OF WALLS

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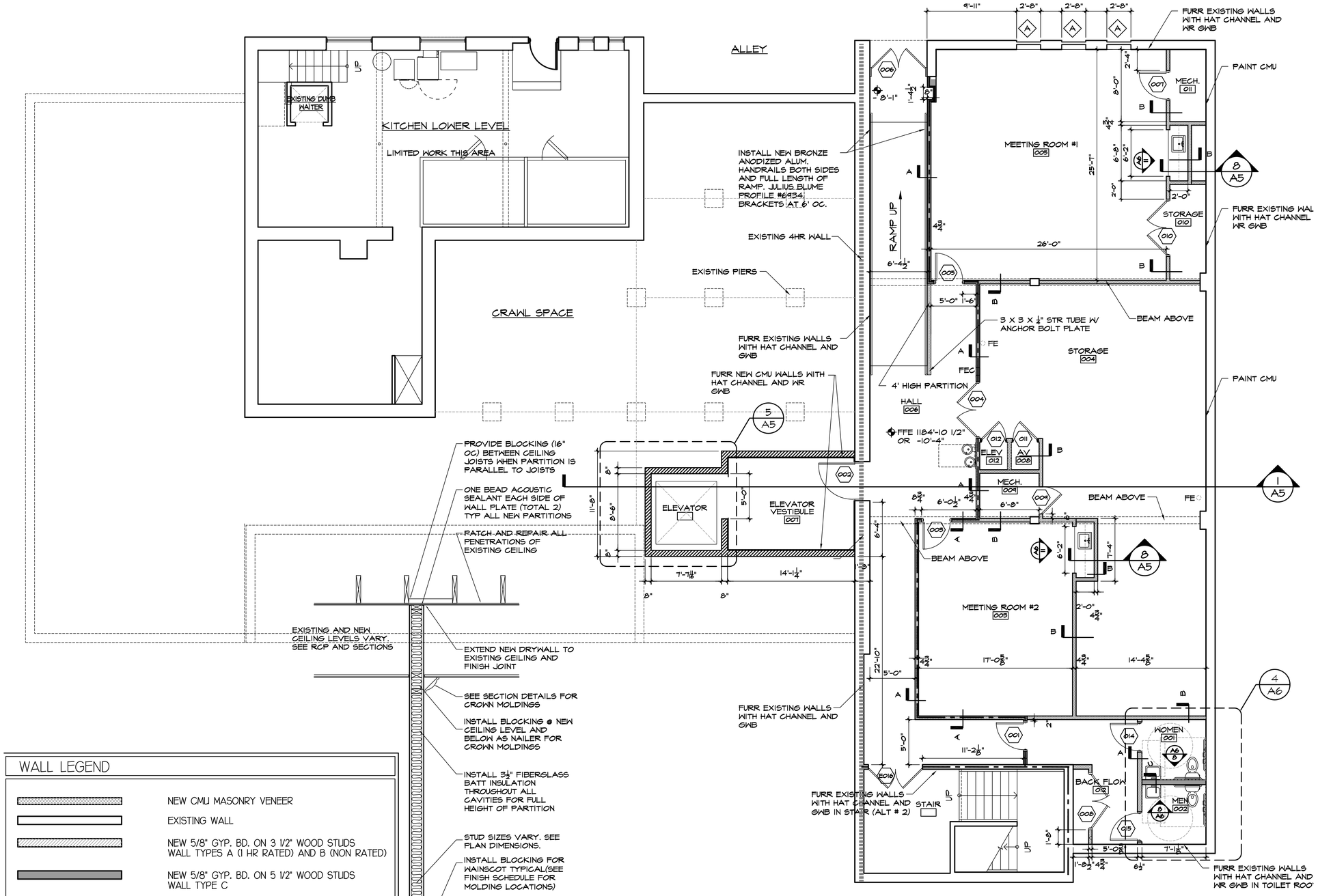
Project Number: 1236
Revisions:

Drawing:
Renovation
Main Floor Plan
Date: 10/17/16

Sheet Number:

A2



WALL LEGEND

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- EXISTING WALL
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- NEW 5/8" GYP. BD. ON 5 1/2" WOOD STUDS WALL TYPE C
- 4 HR FIRE WALL
- 1 HR WALL

NOTE: DIMENSIONS ARE TO FINISH FACE OF WALLS

1/A3 LOWER FLOOR RENOVATION PLAN
SCALE: 3/16" = 1'-0"

2/A3 NEW WALL TYPE A & B
SCALE: 3/4" = 1'-0"

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Morganton Community House PHASE II

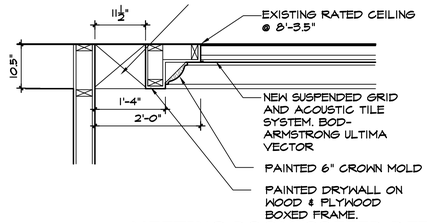
120 N. King Street
Morganton, NC

Project Number: 1236
Revisions:

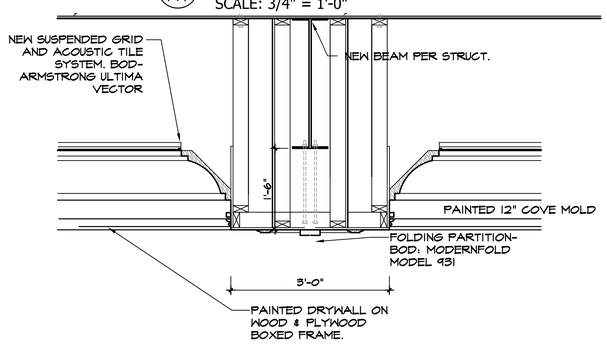
Drawing:
Renovation
Lower Floor Plan
Date: 10/17/16

Sheet Number:

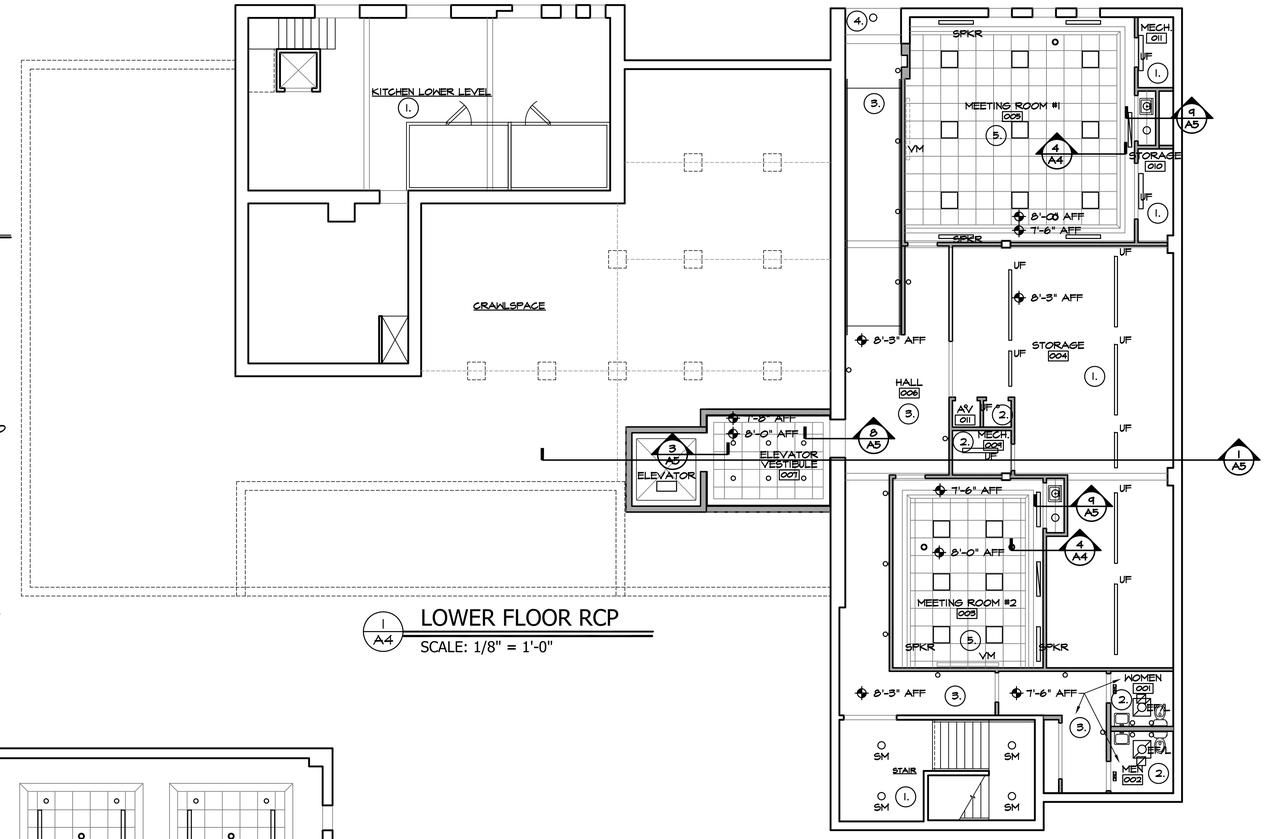
A3



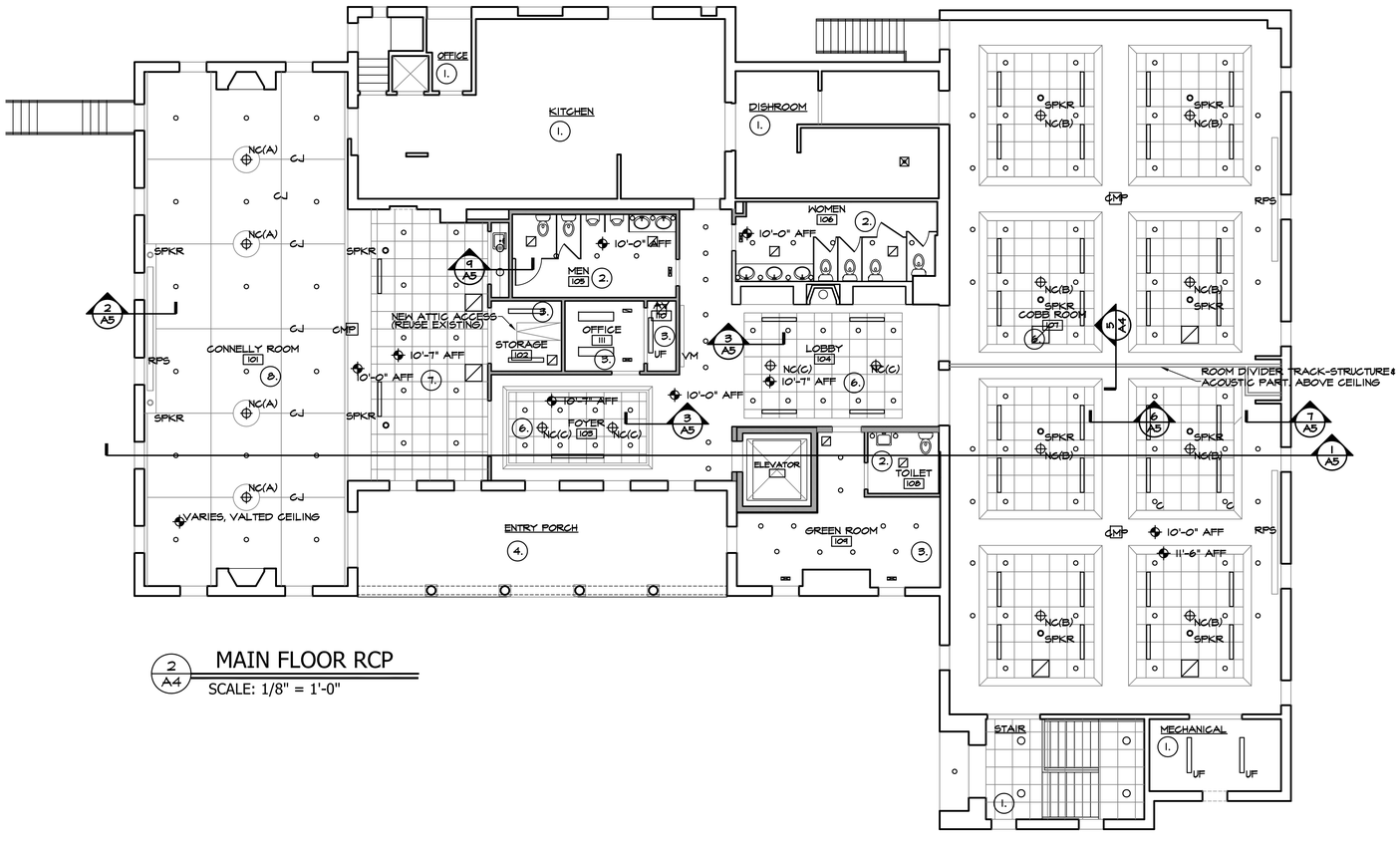
3 A4 MEETING ROOM COFFER DETAIL
SCALE: 3/4" = 1'-0"



5 A4 COBB ROOM DIVIDER
SCALE: 3/4" = 1'-0"



1 A4 LOWER FLOOR RCP
SCALE: 1/8" = 1'-0"



2 A4 MAIN FLOOR RCP
SCALE: 1/8" = 1'-0"

DEVICE/FIXTURE KEY

NC(A)	NEW LARGE CHANDELIER
NC(B)	NEW MEDIUM CHANDELIER
NC(C)	NEW SMALL CHANDELIER
	CAN DOWNLIGHT
	EXIT LIGHT
SPKR	RECESSED SPEAKER OWNER FURNISHED
SM	SURFACE MOUNTED LIGHT
SMF	SURFACE MOUNTED FLUORESCENT
RPS	RECESSED MOTORIZED PROJECTION SCREEN CONTRACTOR FURNISHED
VM	WALL MOUNTED FLAT SCREEN VIDEO MONITER OWNER FURNISHED
UF	UTILITY SURFACE MOUNT FLUORESCENT
SF	SURFACE FLUORESCENT(SIZE PER LIGHT SCHEDULE)
EF/L	EXHAUST FAN / LIGHT
CMP	CEILING MOUNTED PROJECTOR OWNER FURNISHED

CEILING NOTES:

1. EXISTING CEILING-PATCH AND REPAIR ONLY AS REQUIRED FOR MECHANICAL, ELECTRICAL, PLUMBING IMPROVEMENTS. MAINTAIN EXISTING FIRE RATINGS OF ASSEMBLIES.
2. NEW 5/8" TYPE X, MOISTURE RESISTANT GWB ON FRAME SUSPENDED FROM EXISTING STRUCTURE @10'-0" AFF.
3. NEW 5/8 " TYPE X GWB APPLIED TO FRAME SUSPENDED FROM EXISTING CEILING @ 10'-0"AFF. OR AS NOTED.
4. PATCH AND REPAIR EXISTING CEILING/SOFFIT AS REQUIRED FOR NEW FINISHED APPEARANCE.
5. ACOUSTIC CEILING ATTACHED DIRECTLY BELOW EXISTING CEILING. PATCH AND REPAIR EXISTING TO MAINTAIN FIRE RATED ASSEMBLY PRIOR TO APPLYING NEW.
6. NEW SUSPENDED ACOUSTIC TILE CEILING INSET IN GWB COFFERS. SEE DETAILS.
7. NEW SUSPENDED ACOUSTIC TILE CEILING. MAINTAIN EXISTING FIRE RATED ASSEMBLY ABOVE.
8. ¾", NRC-0.6, ACOUSTIC PLASTER (INTEGRAL COLOR) CEILING ATTACHED DIRECTLY TO EXISTING SUB SURFACE. REMOVE EXISTING APPLIED ACOUSTIC TILE PRIOR TO INSTALLATION OF NEW WORK. PATCH, REPAIR AND SMOOTH EXISTING SUB CEILING TO MAINTAIN CONTINUITY OF EXISTING ASSEMBLY PRIOR TO APPLYING NEW. INSTALL CONTROL JOINTS AS SHOWN. NO PAINTING

GENERAL CEILING NOTES:

1. SEE ELECTRICAL LIGHTING SHEETS FOR FIXTURE AND DEVICE TYPES.
2. COORDINATE WITH MECHANICAL SHEETS FOR DIFFUSER TYPES AND LOCATIONS. REVIEW CONFLICTS WITH ARCHITECT PRIOR TO INSTALLATION.
3. COORDINATE ALL PIPE, CONDUIT, DUCT, AND BOX LOCATIONS AND REVIEW IN PRE-CONSTRUCTION MEETINGS PRIOR TO CONSTRUCTION.
4. INSPECT ALL SITE CONDITIONS PRIOR TO BID AND CONSTRUCTION.

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Morganton Community House PHASE II

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Reflected Ceiling Plans
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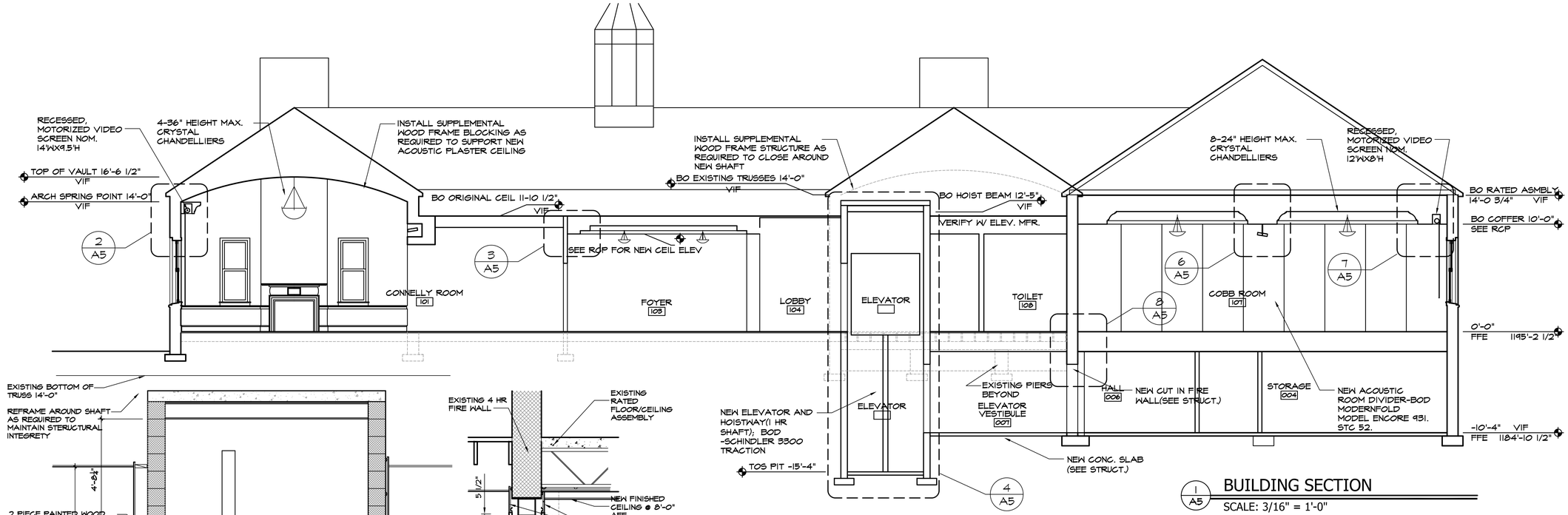
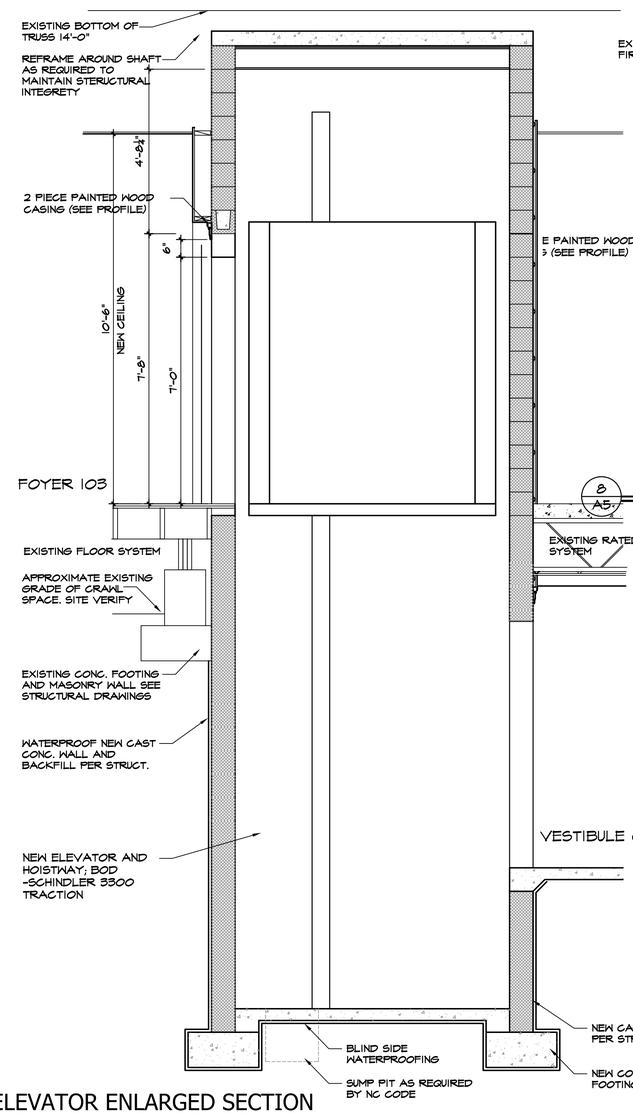
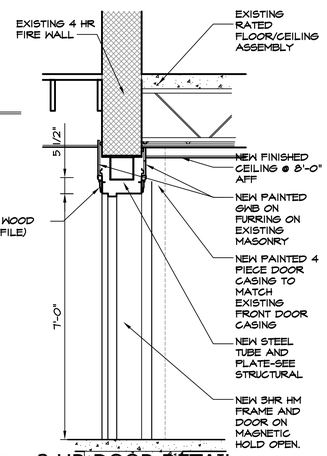


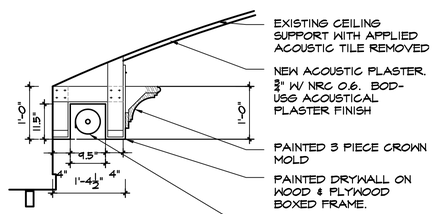
1 A5 BUILDING SECTION
SCALE: 3/16" = 1'-0"



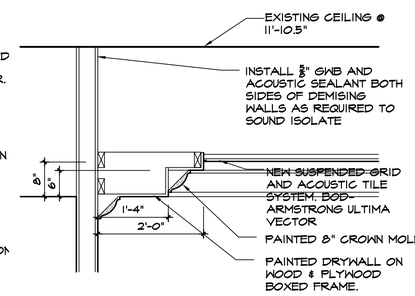
4 A5 ELEVATOR ENLARGED SECTION
SCALE:1/2" = 1'-0"



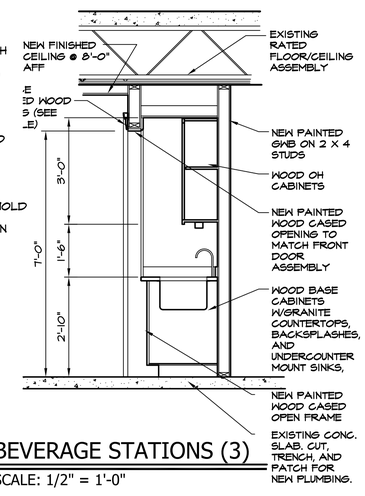
8 A5 3 HR DOOR DETAIL
SCALE: 1/2" = 1'-0"



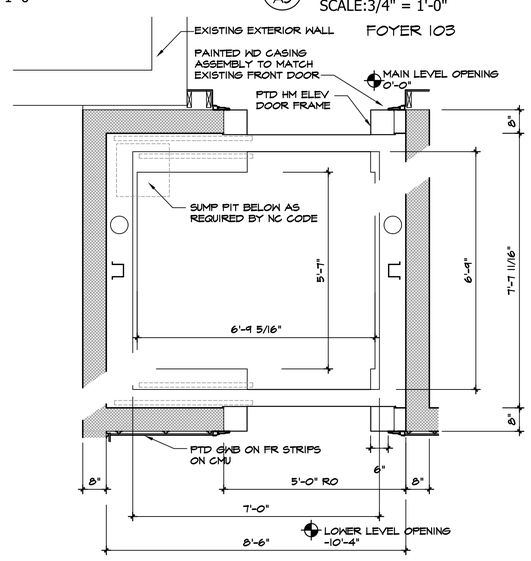
2 A5 NEW CONNELLY CORNICE
SCALE:3/4" = 1'-0"



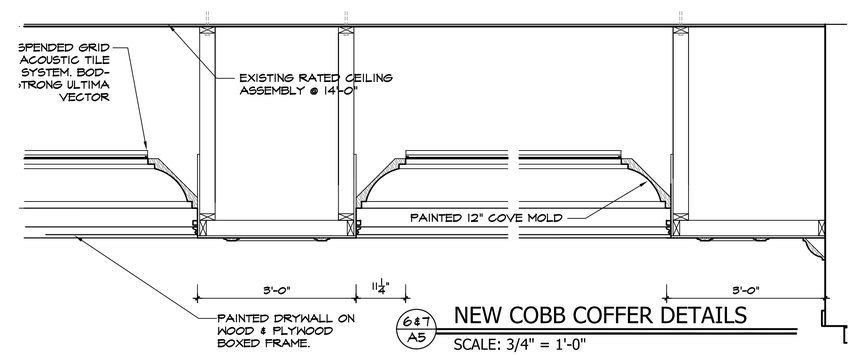
3 A5 NEW FOYER CORNICE
SCALE:3/4" = 1'-0"



8 A5 BEVERAGE STATIONS (3)
SCALE: 1/2" = 1'-0"



5 A5 ELEVATOR ENLARGED PLAN
SCALE:1/2" = 1'-0"



6&7 A5 NEW COBB COFFER DETAILS
SCALE: 3/4" = 1'-0"

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Morganton Community House
PHASE II

120 N. King Street
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BUILDING SECTIONS AND DETAILS
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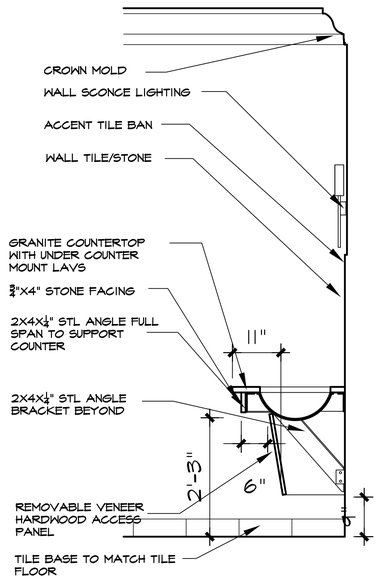
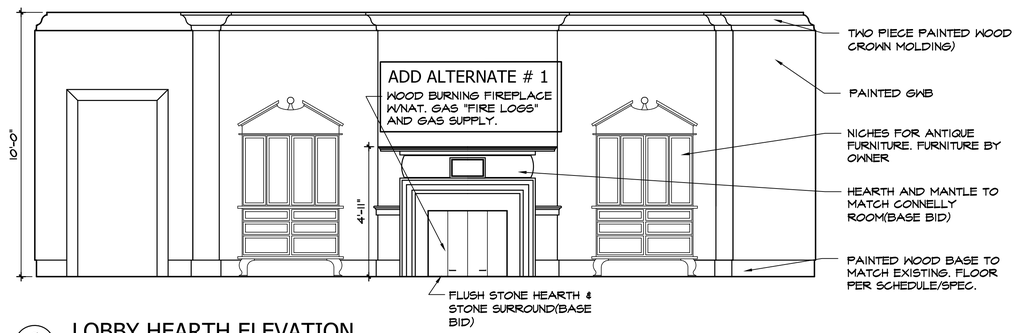


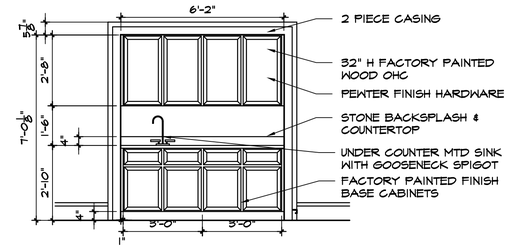
10/A6 TOILET ROOM VANITY SECTION

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



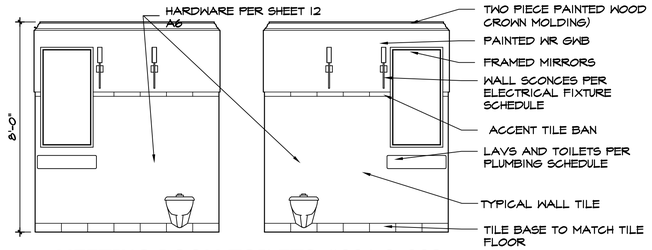
9/A6 LOBBY HEARTH ELEVATION

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



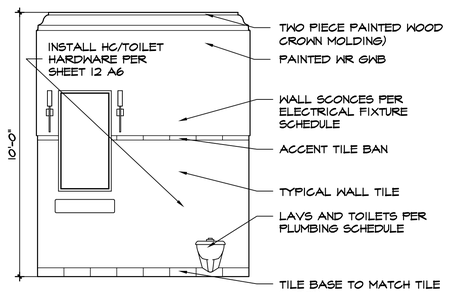
11/A6 BEV. STATION CASEWORK

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



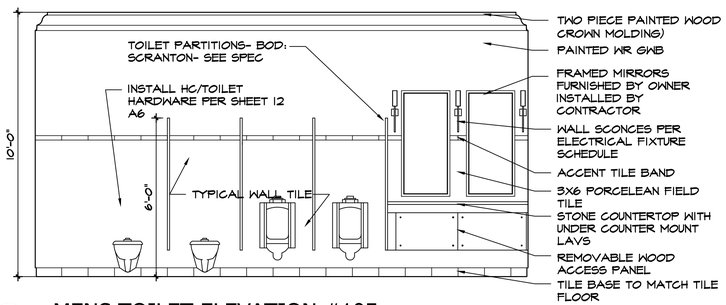
8/A6 MEETING ROOM TOILETS #001 & 002

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



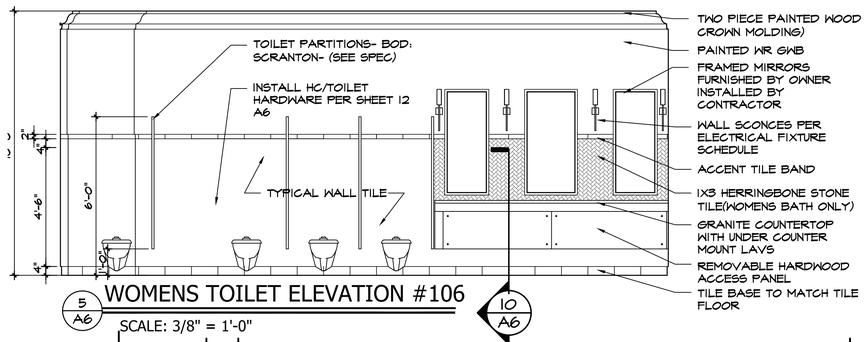
7/A6 GREEN ROOM TOILET #108

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



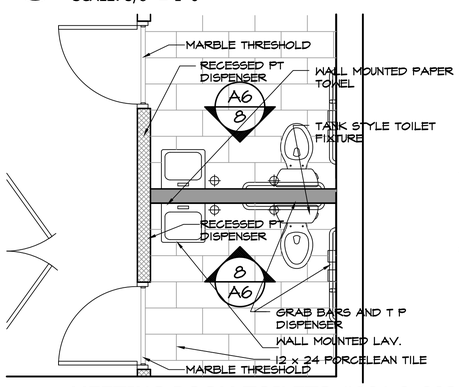
6/A6 MENS TOILET ELEVATION #105

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



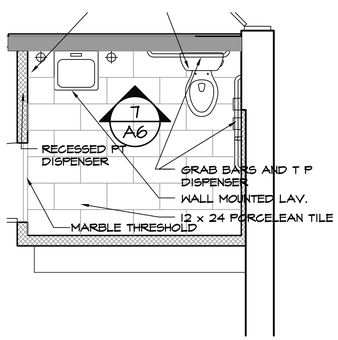
5/A6 WOMENS TOILET ELEVATION #106

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



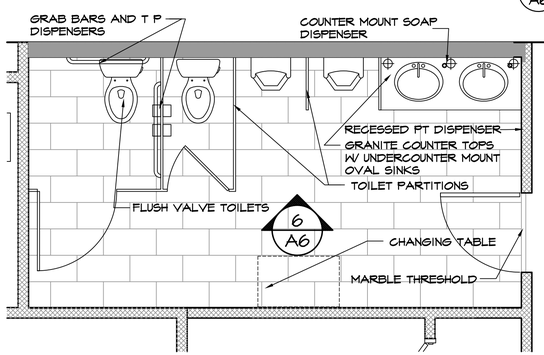
4/A6 MEETING ROOM TOILETS #001 & 002

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



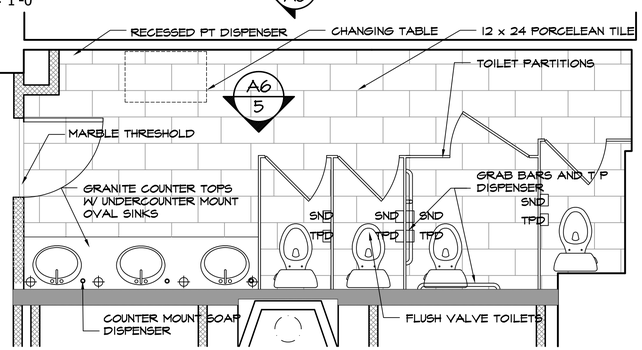
3/A6 GREEN ROOM TOILET #108

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



2/A6 ENLARGED MENS TOILET #105

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



1/A6 ENLARGED WOMENS TOILET #106

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

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Morganton, NC

Project Number: 1236
Revisions:

Drawing:
ENLARGED PLANS AND ELEVATIONS
Date: 10/17/16

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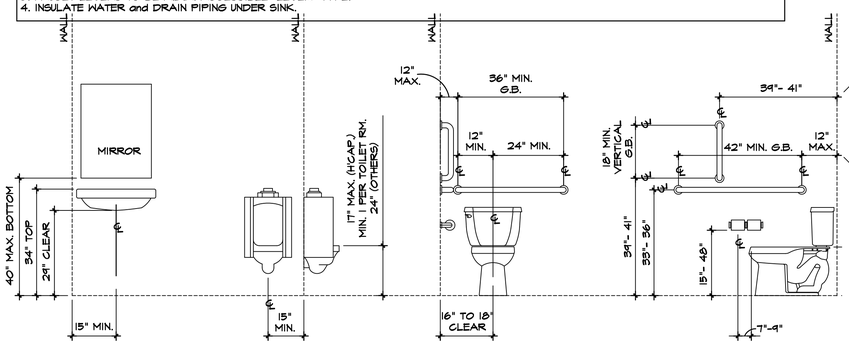
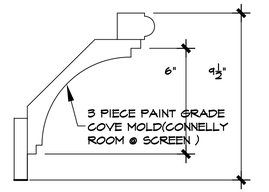
ACCESSIBLE MOUNTING HEIGHTS

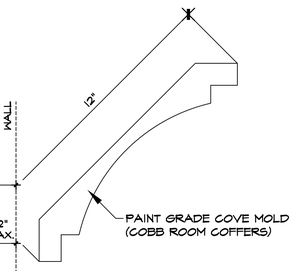
FIXTURE	ABBREV	MOUNTING HEIGHT	HORIZONTAL DIMENSIONS	VERTICAL DIMENSIONS
TOILET (TOP OF SEAT)		17" - 19" A.F.F.	18" - CENTER TO (SIDE) WALL FINISH	
URINAL (TO RIM)		17" MAX.	15" MIN. - CENTER TO (SIDE) WALL FINISH	
LAVATORY (TOP)		34" MAX. A.F.F. /	15" MIN. - CENTER TO (SIDE) WALL FINISH	
(INSULATE PIPES)		24" MIN. CLR. BELOW		
GRAB BAR (CENTERLINE OF BAR)	GB	33" - 36" A.F.F.	SIDE - 12" MAX. TO FACE OF WALL/42" MIN.	
(1 1/2" DIA. BAR AT 1 1/2" FROM WALL FINISH)			REAR - 6" MAX. TO FACE OF WALL/36" MIN.	
VERTICAL GRAB BAR (CENTERLINE OF BAR)	GB	BOTTOM - 39" - 41" A.F.F.	39" - 41" CENTER LINE TO REAR WALL	18" MIN. LENGTH
(1 1/2" DIA. BAR AT 1 1/2" FROM WALL FINISH)				
MIRROR (BOTTOM)	MIR	40" MAX. A.F.F.		
TOILET TISSUE DISPENSER (CENTER)	TTD	19" MIN. A.F.F.	36" MAX. - OUTSIDE EDGE TO REAR WALL	
PAPER TOWEL DISPENSER (SLOT)	PTD	48" MAX. W/O.5" REACH DEPTH; 46" MAX. W/ 2" REACH DEPTH; 42" MAX. W/5" REACH DEPTH; 40" MAX. W/6" REACH DEPTH; 36" MAX. W/ 9" REACH DEPTH; 34" MAX. W/11" REACH DEPTH		
SANITARY NAPKIN DISPOSAL (TOP)	SND	19" MIN. A.F.F.	4" MAX. DEPTH FROM WALL FINISH	
SOAP DISPENSER (BOTTOM)	SD	48" MAX. W/O.5" REACH DEPTH; 46" MAX. W/ 2" REACH DEPTH; 42" MAX. W/5" REACH DEPTH; 40" MAX. W/6" REACH DEPTH; 36" MAX. W/ 9" REACH DEPTH; 34" MAX. W/11" REACH DEPTH		
DOOR HARDWARE (LEVER)		34" MIN. - 48" MAX. A.F.F.		
DIAPER CHANGING STATION		32" A.F.F. - TOP EDGE OF TABLE		
SHOWER GRAB BAR (CENTERLINE)	SGB	33" - 36" A.F.F.	ALONG CONTROL WALL/18" AT SIDE WALL	
SHOWER SEAT		17" - 19" A.F.F.	23" MAX. DEPTH/ 1 1/2" MAX. FROM WALL FINISH	
SHOWER CONTROLS/SOAP	SC/S	38" - 48" A.F.F.	SC - CENTERED ON 36" (CONTROL) WALL	
DRINKING FOUNTAIN	DF	LOW SPOUT AT 36" MAX. A.F.F.		

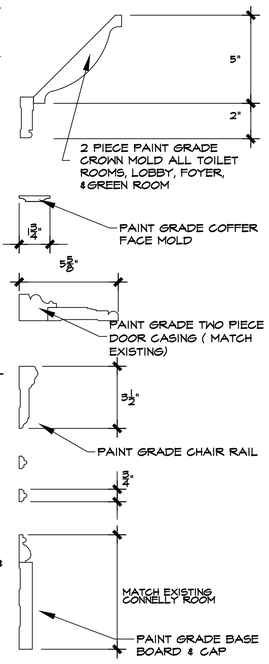
NOTES:
1. REINFORCE WALLS SUPPORTING GRAB BARS AS REQUIRED TO ALLOW GRAB BARS TO SUPPORT 250 LBS.
2. DIMENSIONS ARE FROM FINISH FACE OF WALL OR FLOOR MATERIAL.
3. FAUCET LEVERS TO BE A.D.A. ACCESSIBLE "LEVER" TYPE.
4. INSULATE WATER and DRAIN PIPING UNDER SINK.



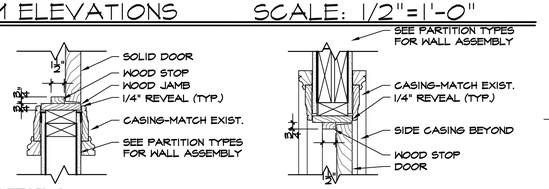
TYPICAL TOILET ROOM ELEVATIONS SCALE: 1/2"=1'-0"



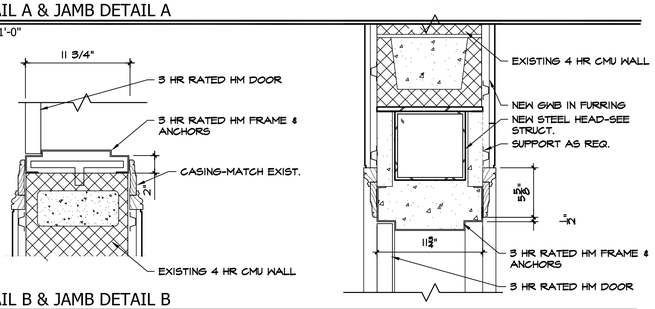




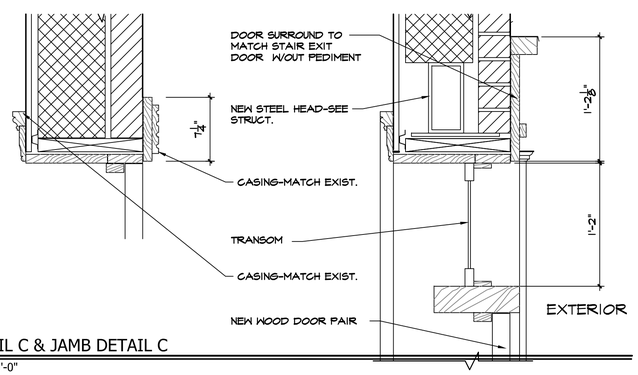
6 A7 MOLDING PROFILES
SCALE: 3"= 1'-0"



1 A7 HEAD DETAIL A & JAMB DETAIL A
SCALE: 1 1/2"= 1'-0"



2 A7 HEAD DETAIL B & JAMB DETAIL B
SCALE: 1 1/2"= 1'-0"



3 A7 HEAD DETAIL C & JAMB DETAIL C
SCALE: 1 1/2"= 1'-0"

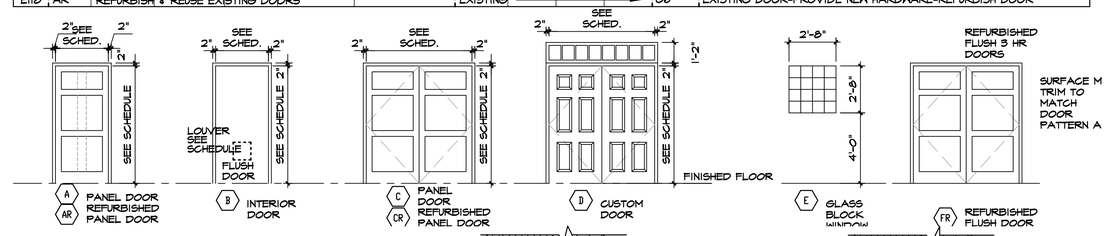
FINISH SCHEDULE

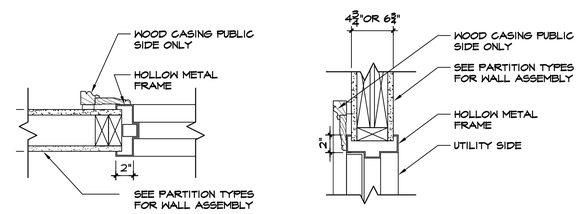
NO.	ROOM NAME	FLOOR: CERAMIC TILE - THIN SET	LINOLEUM	CARPET	CARPET TILES	LVT (LUXERY VINYL TILE)	SEALED CONCRETE	VINYL STAIR TREADS/RISERS	BASE: CERAMIC TILE	VINYL	WOOD W/SHOE-MATCH EXIST.	NONE	EXISTING TO REMAIN	WALLS: PAINTED GYP. BD.	WATER RESIST. GYP. BD.	CROWN MOLDING/PICTURE RAIL	EXISTING TO REMAIN	WALL PAPER ABOVE CHAIR RAIL	PAINTED GYP. BD.	CEILING: LAY-IN ACC. TILE	MOISTURE RESISTANT GYP. BD.	EXISTING TO REMAIN	WOOD BEAD BOARD	DIRECT ATTACH ATC.	REMARKS
		1	2	3	4	5	6	7	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	6	
001	WOMEN		1							1				2	3						3				WALLS, PARTITIONS, COUNTERS, & TRIM PER ELEVATIONS
002	MEN		1							1				2	3						3				WALLS, PARTITIONS, COUNTERS, & TRIM PER ELEVATIONS
003	MEETING ROOM #2				4						3			1	3					2					CARPET SQUARES,
004	STORAGE					6				2				1								4			
005	MEETING ROOM #1				4						3			1		3				2					CARPET SQUARES,
006	HALL				4						3				2	3									CARPET SQUARES,
007	ELEVATOR VESTIBULE				4						3			1		3			1	2					
008	AV CLOSET					6				2				1						2					INSTALL 3/4" PLYWOOD ON SOUTH WALL 1' AFF TO 7' AFF
009	MECHANICAL					6				2				1								4			
010	STORAGE					6				2				1								4			
011	MECHANICAL					6				2				1								4			
012	BACK FLOW CLOSET					6				2					2							4			
101	CONNELLY ROOM					5							5				4	5		2					REPAINT WOOD TRIM, REPAINT WALLS (BASE BID), 6"X 4' LVT,
102	STORAGE					5					3			1					1						
103	FOYER					5					3			1				5	1	2					PAINTED WOOD TRIM TO MATCH
104	LOBBY					5					3			1				5	1	2					PAINTED WOOD TRIM TO MATCH
105	MENS TOILET		1							1					2						3				WALLS, PARTITIONS, COUNTERS, & TRIM PER ELEVATIONS
106	WOMENS TOILET		1							1					2						3				WALLS, PARTITIONS, COUNTERS, & TRIM PER ELEVATIONS
107	COBB ROOM					5					3						4	5	1	2					REPAINT WOOD TRIM, REPAINT WALLS (BASE BID), 6"X 4' LVT,
108	TOILET		1							1					2				1						WALLS, PARTITIONS, COUNTERS, & TRIM PER ELEVATIONS
109	GREEN ROOM				3						3			1				5	1						
110	AUDIO VISUAL CLOSET					5				2				1						2					INSTALL 3/4" PLYWOOD ON EAST WALL 1' AFF TO 7' AFF
111	OFFICE				3						3			1				5	1						
	ELEVATOR					4																			FINISHES BY ELEVATOR MANUFACTURER, FLOORING BY GC-(CARPET TILES)
	STAIR					5		7						1											FURRING AND PTD GWB ON CMU IS ADD ALTERNATE # 2

NOTE: INSTALL UNDERLAYMENT IN ROOMS 101,102,103,104,105,106,108,109,110 AND 111

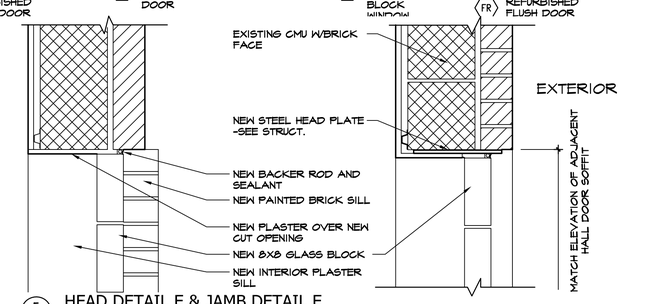
DOOR SCHEDULE

NO.	TYPE	DOOR: WIDTH	HEIGHT	THICK	MATERIAL	GLASS	FRAME: HEAD	JAMB	THR.	MAT'L.	HDWR	REMARKS
001	A	3'-0"	6'-8"	1-3/4"	WOOD	NA	A	A	NA	WOOD	01	20 MIN
002	B	4'-0"	6'-8"	1-3/4"	HM	NA	B	B	AS REQ	HM	02	3 HOUR RATED DOOR, 4" HEAD FRAME,ELECTRONIC HOLD OPEN
003	A	3'-0"	6'-8"	1-3/4"	WOOD	-	A	A	NA	WOOD	03	20 MIN, PROVIDE SOUND GASKETS
004	C	(2) 3'-0"	6'-8"	1-3/4"	WOOD	-	A	A	NA	WOOD	04	20 MIN
005	A	3'-0"	6'-8"	1-3/4"	WOOD	-	A	A	NA	WOOD	03	20 MIN, PROVIDE SOUND GASKETS
006	D	(2)3'-0"	MATCH EXIST	1-3/4"	WOOD	-	EXISTING			→	06	CUSTOM DOORS(D) WITHOUT TRANSOM, IN EXISTING FRAME
007	A	3'-0"	6'-8"	1-3/4"	WOOD	-	A	A	NA	WOOD	07	ARCH CASING FINISH SIDE ONLY
008	B	(2)3'-0"	6'-8"	1-3/4"	HM	-	D	D	AS REQ	HM	04	-
009	B	3'-0"	6'-8"	1-3/4"	HM	-	D	D	NA	HM	07	-
010	C	(2) 3'-0"	6'-8"	1-3/4"	WOOD	-	A	A	NA	WOOD	04	ARCH CASING FINISH SIDE ONLY
011/012	B	(2) 3'-0"	6'-8"	1-3/4"	HM		D	D	AS REQ	HM	07	PROVIDE SOUND GASKETS
014	A	3'-0"	6'-8"	1-3/4"	WOOD	-	A	A	YES	WOOD	08	
015	A	3'-0"	6'-8"	1-3/4"	WOOD	-	A	A	YES	WOOD	08	
E016		NEW DOORS TO MATCH EXISTING					EXISTING			→	14	20 MIN
WIN A	E	2'-8"	2'-8"	3"		GLASS BLOCK	E	E	NA	GLASS	NA	GLASS BLOCK WALL (NON OPERABLE)
101	D	(2) 3'-0"	MATCH EXIST	1-3/4"	WOOD	-	C	C	YES	WOOD	06	CUSTOM DOORS, TRANSOM, FRAME (SEE ELEVATION)
102	C	(2) 3'-0"	6'-8"	1-3/4"	WOOD	-	A	A	NA	WOOD	04	-
103	CR	(2) 3'-0"	6'-8"	1-3/4"	WOOD	-	A	A	NA	WOOD	10	PROVIDE SOUND GASKETS, REFURBISHED DOOR
104	AR	REFURBISH & REUSE EXISTING DOOR					EXISTING			→	05	EXISTING DOOR-PROVIDE NEW HARDWARE-REFURBISH DOOR
105	AR	3'-0"	6'-8"	1-3/4"	WOOD	-	A	A	YES	WOOD	05	REFURBISHED DOOR/ANOTHER LOCATION ON SITE/NEW HARDWARE
106	AR	3'-0"	6'-8"	1-3/4"	WOOD	-	A	A	YES	WOOD	05	REFURBISHED DOOR/ANOTHER LOCATION ON SITE/NEW HARDWARE
108	AR	3'-0"	6'-8"	1-3/4"	WOOD		A	A	YES	WOOD	12	REFURBISHED DOOR/ANOTHER LOCATION ON SITE/NEW HARDWARE
109	A	3'-0"	6'-8"	1-3/4"	WOOD		A	A	NA	WOOD	15	-
110	C	(2)3'-0"	6'-8"	1-3/4"	WOOD		A	A	NA	WOOD	09	PROVIDE 12 X 12 LOUVERS IN EACH LEAF 16" AFF & ABOVE
111	AR	3'-0"	6'-8"	1-3/4"	WOOD		A	A	NA	WOOD	15	-
E112	AR	REFURBISH & REUSE EXISTING DOORS					EXISTING			→	16	EXISTING DOOR-PROVIDE NEW HARDWARE-REFURBISH DOOR
E113	AR	NEW DOOR TO MATCH EXISTING					EXISTING			→	15	REPLACE EXTERIOR TRIM
E114	AR	NEW DOOR TO MATCH EXISTING					EXISTING			→	16	REPLACE EXTERIOR TRIM AS REQUIRED
E115	FR	REFURBISH & REUSE EXISTING DOORS HM					EXISTING			→	10	3 HOUR RATED DOORS
E116	FR	REFURBISH & REUSE EXISTING DOORS HM					EXISTING			→	10	3 HOUR RATED DOORS
E117	AR	NEW DOORS TO MATCH EXISTING					EXISTING			→	10	EXISTING DOOR-PROVIDE NEW HARDWARE-REFURBISH DOOR
E118	AR	REFURBISH & REUSE EXISTING DOORS					EXISTING			→	06	EXISTING DOOR-PROVIDE NEW HARDWARE-REFURBISH DOOR





4 A7 HEAD DETAIL D & JAMB DETAIL D
SCALE: 1 1/2"= 1'-0"



5 A7 HEAD DETAIL E & JAMB DETAIL E
SCALE: 1 1/2"= 1'-0"

GLAZER ARCHITECTURE, PA
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Morganton Community House PHASE II

120 N. King Street
Morganton, NC

Project Number: 1236
Revisions:

Drawing: FINISH & DOOR SCHEDULES, CHARTS & DETAILS
Date: 10/17/16

Sheet Number:

A7

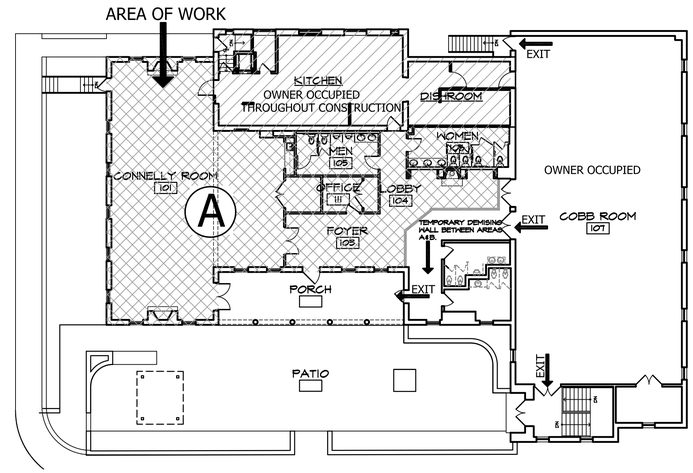
ADD ALTERNATE #4 - SEQUENCING OF WORK TO ALLOW PARTIAL OWNER USE

THE BASE BID FOR THIS PROJECT PROVIDES FOR THE CONTRACTOR TO HAVE FULL ACCESS TO THE BUILDING EXCEPT FOR THE KITCHEN AREAS ON BOTH LEVELS OF THE BUILDING. THIS ACCESS IS FOR THE FULL PERIOD OF CONSTRUCTION AS INDICATED IN THE DOCUMENTS.

ALTERNATE # 4, REQUIRES THE CONTRACTOR TO ALLOW THE OWNER TO OCCUPY PORTIONS OF THE BUILDING DURING THE CONSTRUCTION PERIOD. THE DIAGRAMS ON THIS SHEET DEFINE THE SEQUENCE OF CONSTRUCTION TO ALLOW AREAS OF THE BUILDING TO BE OCCUPIED FOR DURATIONS OF TIME DURING CONSTRUCTION.

THE PURPOSE OF ALTERNATE #4 IS TO ALLOW FOR OWNER OCCUPANCY OF THE BUILDING DURING THE CONSTRUCTION PERIOD AND TO ASSESS THE COST OF THIS OCCUPANCY AS WELL AS ANY ADDITIONAL TIME THAT MAY BE REQUIRED FOR THE CONTRACTOR TO COMPLETE CONSTRUCTION UNDER THE PROPOSED CIRCUMSTANCES.

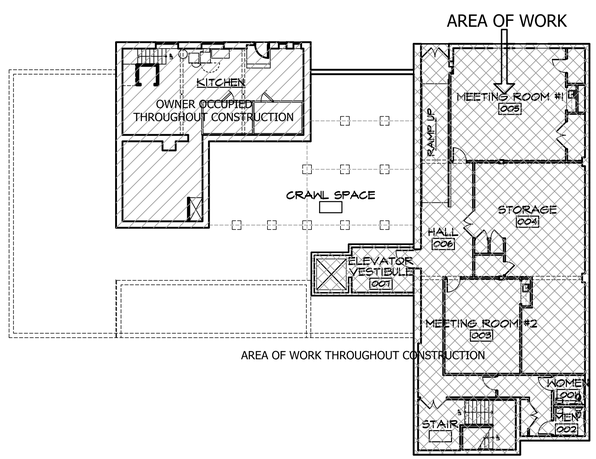
THE OWNER RESERVES THE RIGHT TO ACCEPT THE CONSTRUCTION BID WITH OR WITHOUT ALTERNATE #4.



A UPPER LEVEL AREA OF WORK

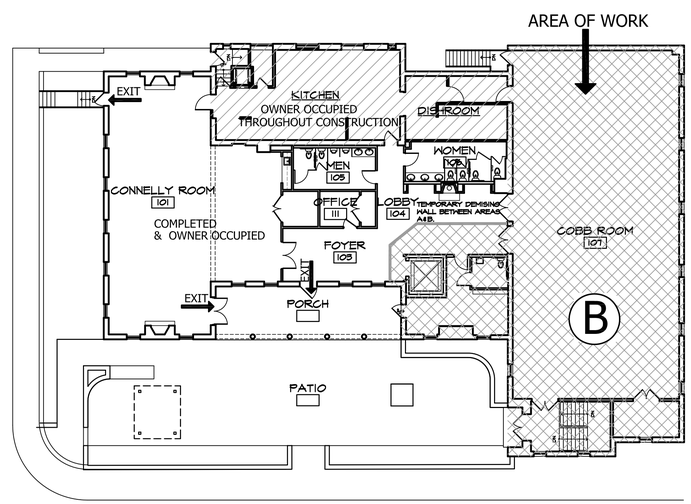
SCALE: 1/16" = 1'-0"

DURING THIS PERIOD OF SEQUENCING, THE OWNER WILL OCCUPY THE EXISTING KITCHEN, THE EXISTING COBB ROOM, AND EXISTING TOILETS ADJACENT TO THE EXIT.



LOWER LEVEL AREA OF WORK

SCALE: 1/16" = 1'-0"



B UPPER LEVEL AREA OF WORK

SCALE: 1/16" = 1'-0"

DURING THIS PERIOR OF SEQUENCING, THE OWNER WILL OCCUPY THE EXISTING KITCHEN, THE RENOVATED CONNELLY ROOM, OFFICE 111, AV, SROR. AND THE NEW COMMON TOILETS 105 AND 106.

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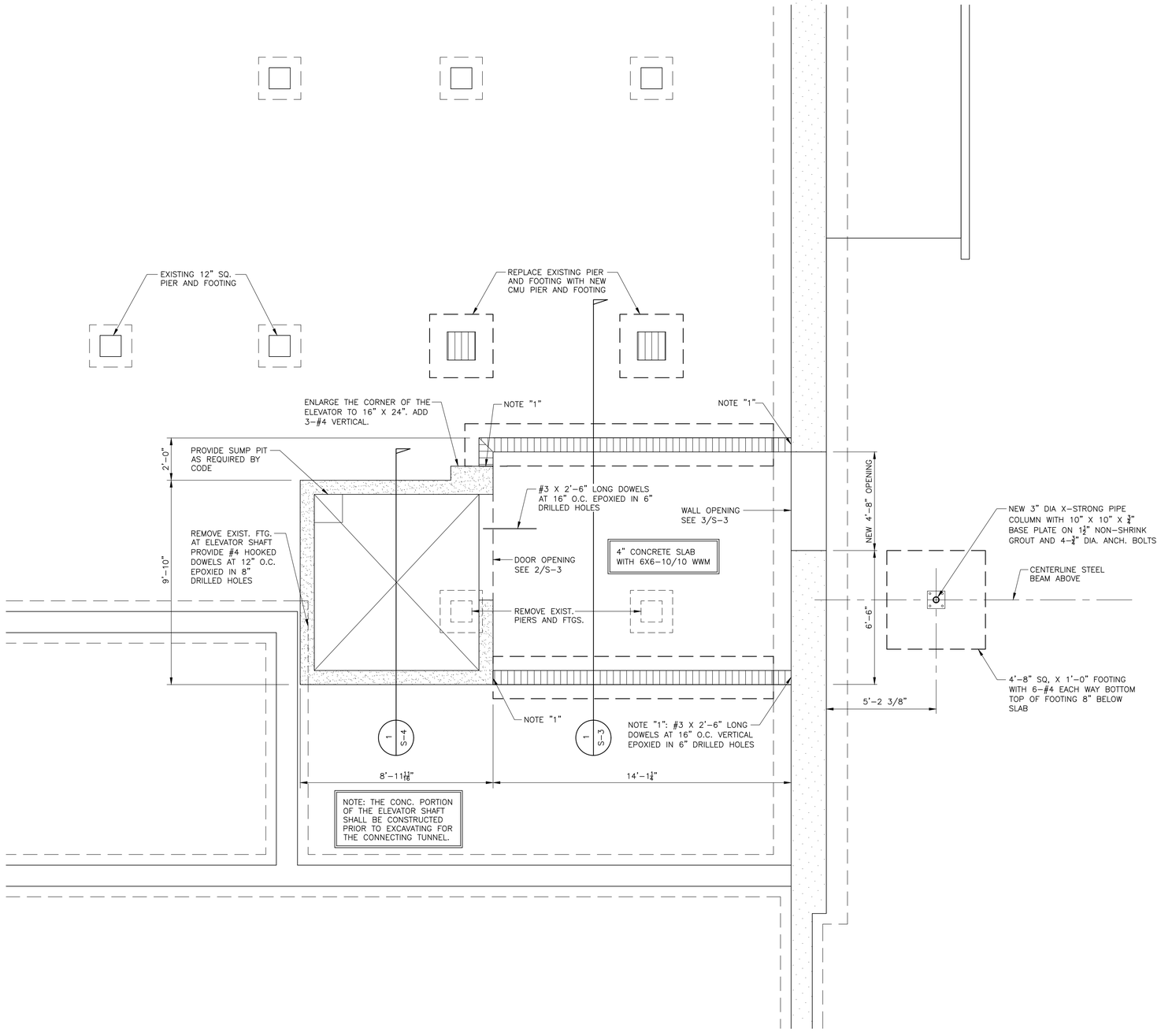

LOWER LEVEL AND FOUNDATION PLAN

SCALE 3/8"=1'-0"

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MORGANTON COMMUNITY HOUSE PHASE II

120 N. King Street
Morganton, NC

Project Number: 1236
Revisions:

NORTH CAROLINA REGISTERED PROFESSIONAL SEAL 022173 ENGINEER DARNEY J. MADY

10-17-16

Mady Engineering F-0654
STRUCTURAL ENGINEERING
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Fairview, NC 28730
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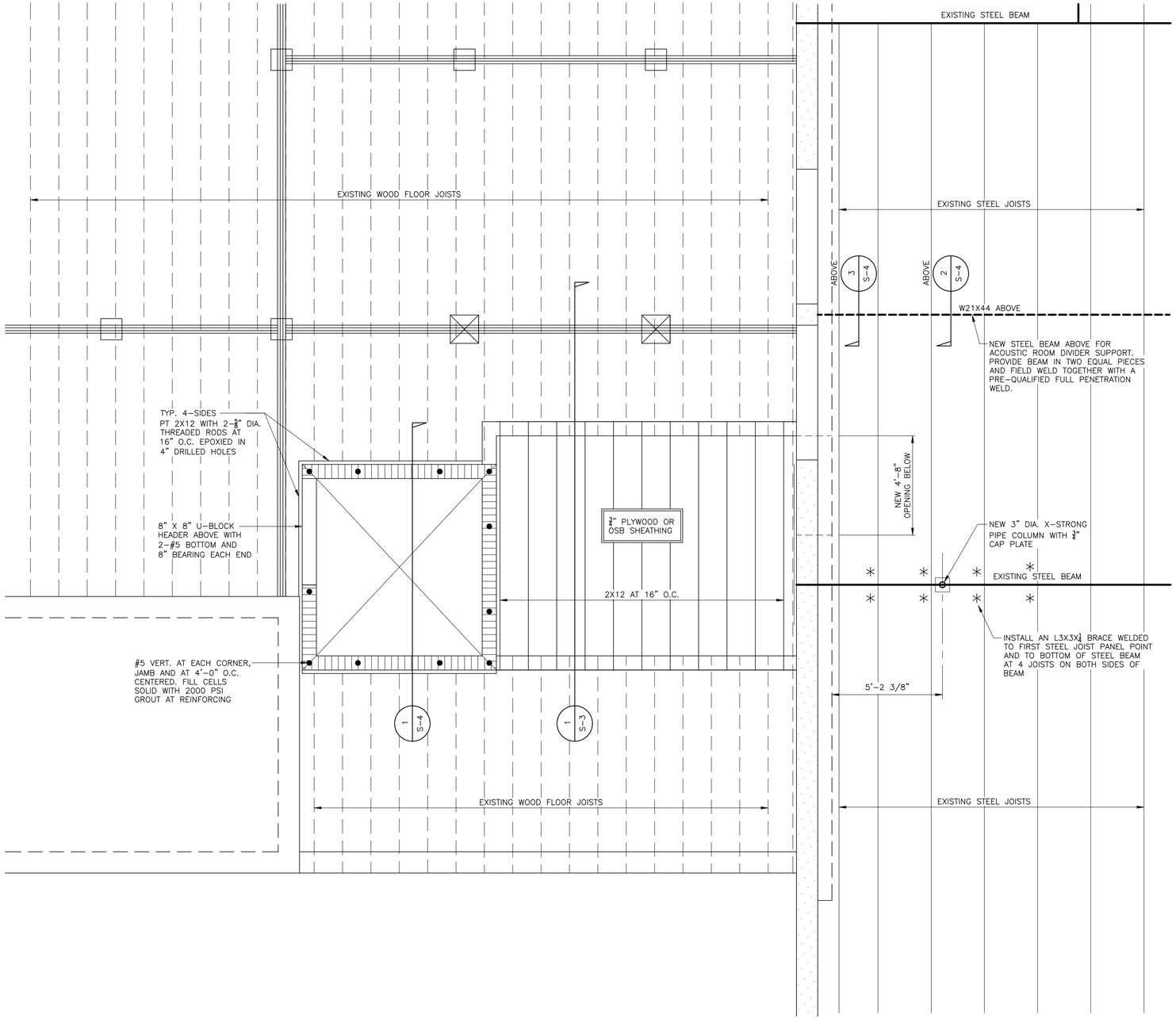
Lower Level and Foundation Plan
Date: 10-17-16

Sheet Number:
S-1



MAIN LEVEL FRAMING PLAN

SCALE 3/8"=1'-0"

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MORGANTON COMMUNITY HOUSE PHASE II

120 N. King Street
Morganton, NC

Project Number: 1236
Revisions:

NORTH CAROLINA PROFESSIONAL SEAL 022178 ENGINEER DANIEL J. MADY

10-17-16

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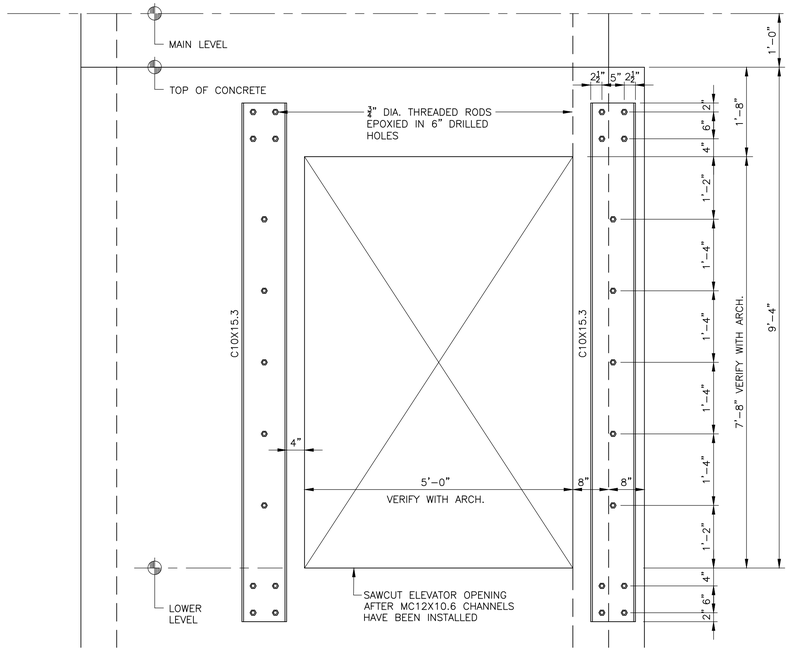
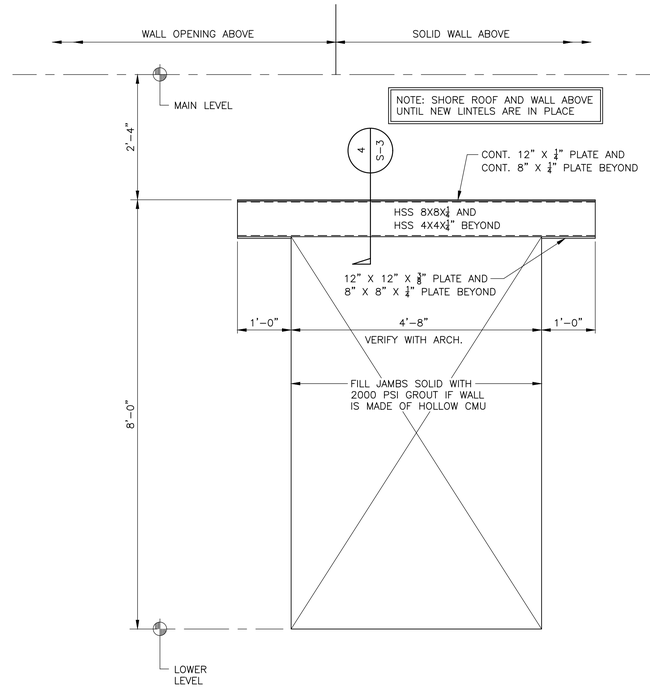
Main Level Framing Plan
Date: 10-17-16

Sheet Number:
S-2



SECTION 2 S-3
SCALE: 3/4"=1'-0"



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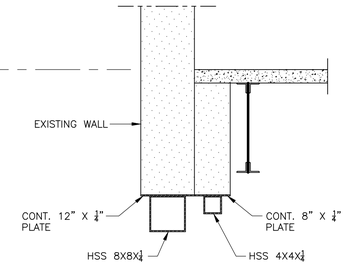

SECTION 4 S-3
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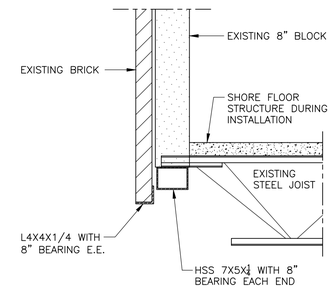
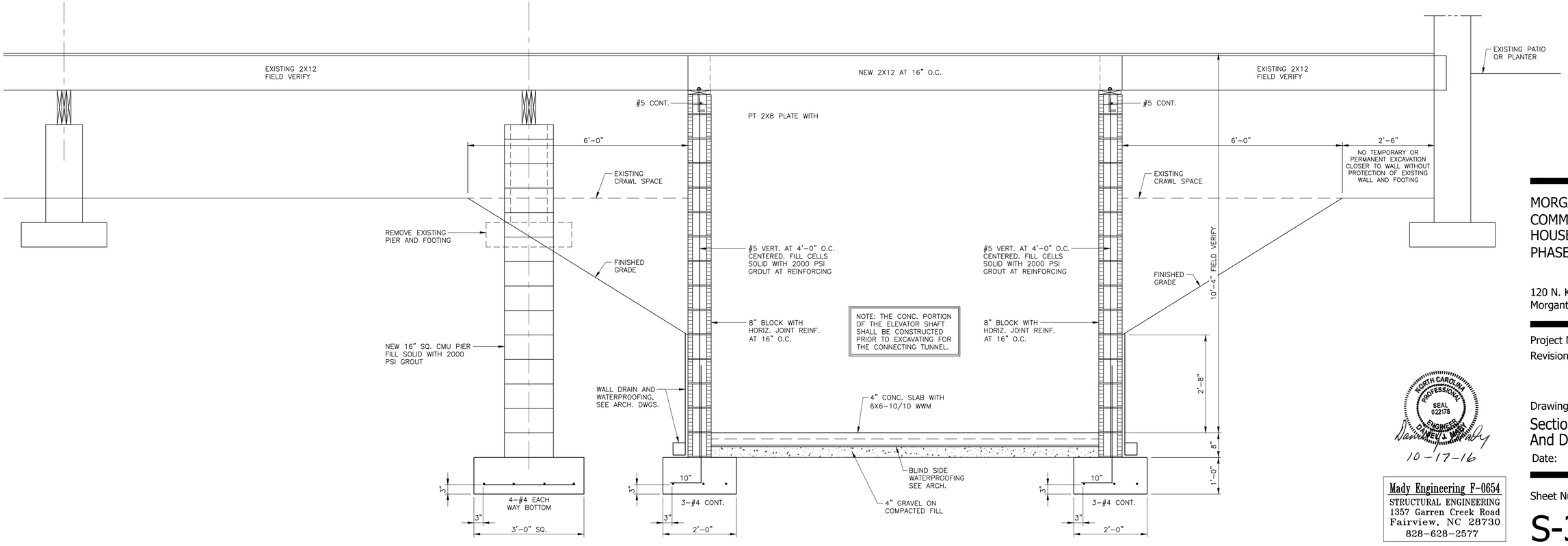


NOTE: SEE ARCH. DRAWINGS FOR NEW WINDOW LOCATIONS

SECTION 5 S-3
SCALE: 3/4"=1'-0"



SECTION 1 S-3
SCALE: 3/4"=1'-0"

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MORGANTON COMMUNITY HOUSE PHASE II

120 N. King Street
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Drawing:
Sections And Details
Date: 10-17-16

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NORTH CAROLINA PROFESSIONAL SEAL 022178 ENGINEER DANIEL J. MADY
10-17-16

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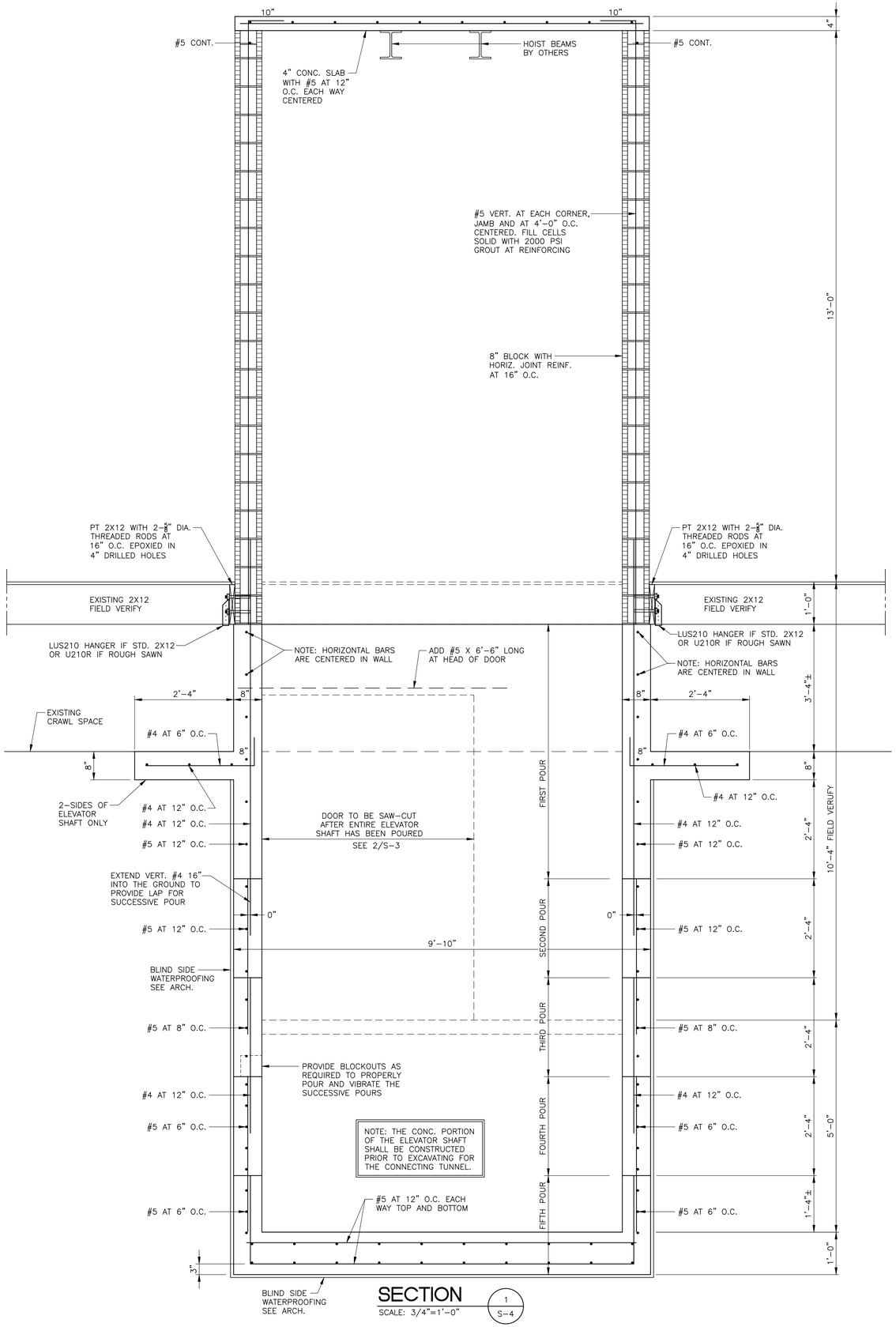
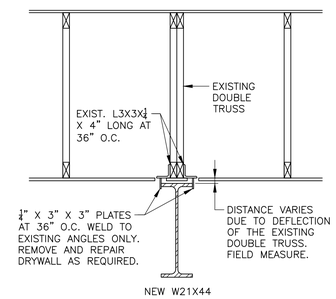


SECTION 1 / S-4
SCALE: 3/4"=1'-0"



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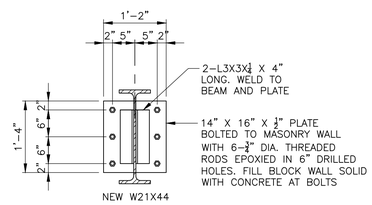

SECTION 3 / S-4
SCALE: 3/4"=1'-0"

GENERAL STRUCTURAL NOTES

1. ALL DESIGN PER NORTH CAROLINA STATE BUILDING CODE 2012.
   A. DESIGN LOADS:
      ROOF LIVE LOAD ---------- 20 PSF
      FLOOR LIVE LOAD ---------- 100 PSF
2. DESIGN SOIL PRESSURE - PRESUMPTIVE ---------- 2000 PSF
3. IF FOOTING ELEVATIONS SHOWN OCCUR IN A DISTURBED, UNSTABLE, OR UNSUITABLE SOIL, THE ARCHITECT SHALL BE NOTIFIED.
4. CONCRETE: DESIGN PER CURRENT EDITION A.C.I.
   A. ALL FILLED MASONRY CELLS --- GROUT ---------- f'c = 2000 PSI
   B. ALL OTHER CONCRETE ---------- f'c = 3000 PSI
5. CONCRETE MASONRY UNITS ---------- A.S.T.M. C-90
6. MORTAR ---------- TYPE "S"
7. GROUTED MASONRY UNITS SHALL BE FILLED SOLID WITH 2000 PSI GROUT. GROUT SLUMP 8 TO 11 INCHES.
8. REINFORCEMENT: REINFORCING BARS (GRADE 60) ----- A.S.T.M. A-615
   WELDED WIRE MESH ---------- A.S.T.M. A-185
9. MINIMUM COVER FOR CAST-IN-PLACE CONCRETE REINF., UNLESS OTHERWISE SHOWN ON DRAWINGS, SHALL BE AS FOLLOWS:
   FOOTINGS ---------- 3"
   SLABS ---------- CENTERED
   WALLS ---------- CENTERED
10. SPLICES IN REINFORCEMENT, WHERE PERMITTED, SHALL BE AS FOLLOWS:
    ALL POURED CONCRETE ---------- CLASS "C" TENSION SPLICE
    BARS IN MASONRY ---------- 48 BAR DIAMETERS
    WELDED WIRE MESH ---------- 8"
11. CLASS "C" TENSION SPLICES, IN INCHES, SHALL BE AS FOLLOWS:

	TOP BARS	ALL OTHERS
# 3	21	15
# 4	29	20
# 5	36	26
# 6	46	33
# 7	62	45

12. ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACEMENT OF CONCRETE.
13. STRUCTURAL STEEL: DESIGN PER CURRENT EDITION A.I.S.C. AS FOLLOWS WITH ONE SHOP COAT OF PAINT, EXCEPT EMBEDDED ITEMS.
    A. ROLLED SHAPES AND PLATES ---------- A.S.T.M. A-36
    B. PIPES ---------- A.S.T.M. A-53
    C. TUBES ---------- A.S.T.M. A-500
14. MACHINE BOLTS (MB) AND ANCHOR BOLTS (AB) ------- A.S.T.M. A-307
15. FLOOR SHEATHING: 3/4" OSB OR PLYWOOD SHEATHING. ATTACH WITH 10d NAILS AT 6" O.C. AT SUPPORTED EDGES AND AT 12" O.C. IN FIELD.
16. WOOD FRAMING: #2 SOUTHERN YELLOW PINE ---------- Fb = 800 PSI
    Fv = 88 PSI
    E = 1400 KSI
17. WOOD CONNECTORS: ALL CONNECTORS SHALL BE AS MANUFACTURED BY THE SIMPSON STRONG-TIE. CO.
18. ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES.

APPENDIX "B"

DESIGN LOADS:

Importance Factors: Wind (I_W) 1.0; Snow (I_S) 1.0; Seismic (I_E) 1.0

Live Loads: Roof 20 psf; Mezzanine NA psf; Floor 100 psf

Ground Snow Load: NA psf

Wind Load: Basic Wind Speed 90 mph (ASCE-7); Exposure Category B; Wind Base Shears (for MWFRS) Vx = 11.1 kips Vy = 11.1 kips

SEISMIC DESIGN CATEGORY: ☐ A ☐ B ☒ C ☐ D

Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) ☐ I ☒ II ☐ III ☐ IV
Spectral Response Acceleration S_S = 24.6 %g S_1 = 9.8 %g
Site Classification (Table 1613.5.2) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F
Data Source: ☐ Field Test ☒ Presumptive ☐ Historical Data
Basic structural system (check one)
☒ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Seismic base shear: V_X = NA V_Y = NA
Analysis Procedure: ☐ Simplified ☒ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☐ Yes ☒ No

LATERAL DESIGN CONTROL: Earthquake ☒ Wind ☐

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) NA
Presumptive Bearing capacity 2000 psf
Pile size, type, and capacity NA

SPECIAL INSPECTIONS REQUIRED: ☐ Yes ☒ No

NORTH CAROLINA PROFESSIONAL SEAL 022178 ENGINEER DANIEL J. MADY
10-17-16

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MORGANTON COMMUNITY HOUSE PHASE II

120 N. King Street
Morganton, NC

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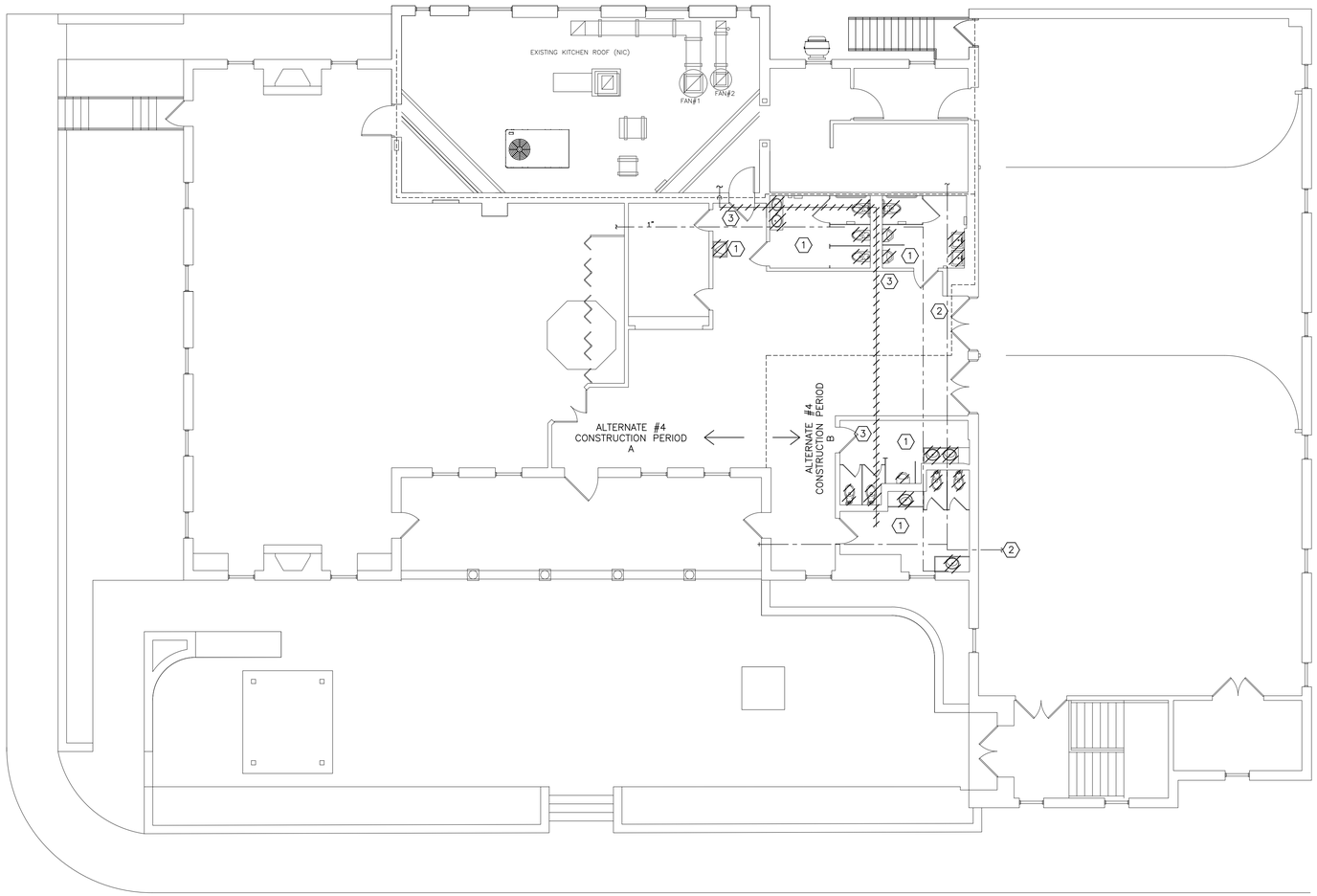
Sheet Number:
S-4



EXISTING MAIN FLOOR DEMOLITION – PLUMBING

3/16" = 1'-0"

KEYED PLUMBING NOTES:

1. REMOVE ALL PLUMBING FIXTURES. REMOVE SUPPLY PIPING BACK TO MAINS BELOW FLOOR AND CAP.
2. EXISTING 2" CW PIPING IN CRAWL SPACE. FIELD VERIFY EXACT LOCATION.
3. REMOVE EXISTING WASTE PIPING IN CRAWL SPACE BACK TO VERTICAL DROP NEAR KITCHEN. FIELD VERIFY LOCATION.

ALTERNATE #4

THIS ALTERNATE SEPARATES THE CONSTRUCTION INTO TWO PERIODS, A AND B. SEE DRAWING A8 FOR SEQUENCING DESCRIPTIONS AND DRAWINGS.

1 CONSTRUCTION PERIOD A INCLUDES THE NEW CONNELLY ROOM, AND RESTROOMS, AND MOST OF THE LOBBY. THE COBB ROOM, KITCHEN, AND ONE SET OF RESTROOMS WILL REMAIN IN USE. THE KITCHEN AND LOWER LOBBY RESTROOMS MUST BE MAINTAINED IN OPERATION. COORDINATE OUTAGES WITH OWNER TO OCCUR DURING UNOCCUPIED PERIODS.

2 CONSTRUCTION PERIOD B INCLUDES THE COBB ROOM, ELEVATOR, GREEN ROOM, AND THE REMAINDER OF THE LOBBY. THE KITCHEN AND NEW LOBBY RESTROOMS MUST BE MAINTAINED IN OPERATION. COORDINATE OUTAGES WITH OWNER TO OCCUR DURING UNOCCUPIED PERIODS.

3 THE LOWER LEVEL IS AVAILABLE FOR THE CONTRACTOR THROUGHOUT CONSTRUCTION. HOWEVER, THE WATER SERVICE RELOCATION AND ANY WATER AND WASTE LINE REVISIONS MUST NOT IMPACT THE USE OF THE BUILDING.

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Morganton Community House PHASE II

120 N. King Street
Morganton, NC

Project Number: 1236
Revisions:

NORTH

NORTH CAROLINA PROFESSIONAL SEAL 18486 ENGINEER JEROME C. MAY 10/17/16

Drawing:
Plumbing Plan - Demolition

Date: 10/17/2016

Sheet Number:
P0.1

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LICENSE # C-1035

1813 CHAPEL HILL ROAD
DURHAM, NORTH CAROLINA
919-493-5277

FLAT IRON BUILDING SUITE 706
20 BATTERY PARK AVENUE
ASHEVILLE, NORTH CAROLINA
828-255-4691

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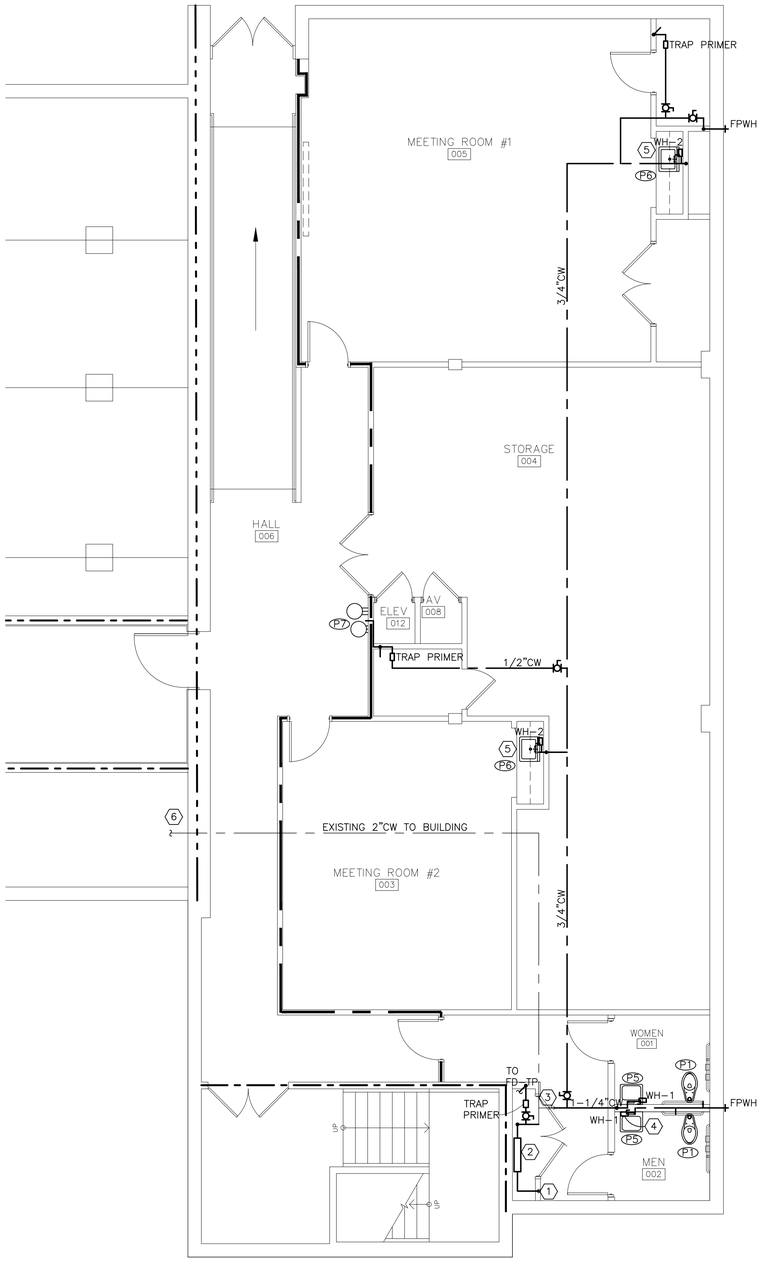
PROJECT NO. 16203

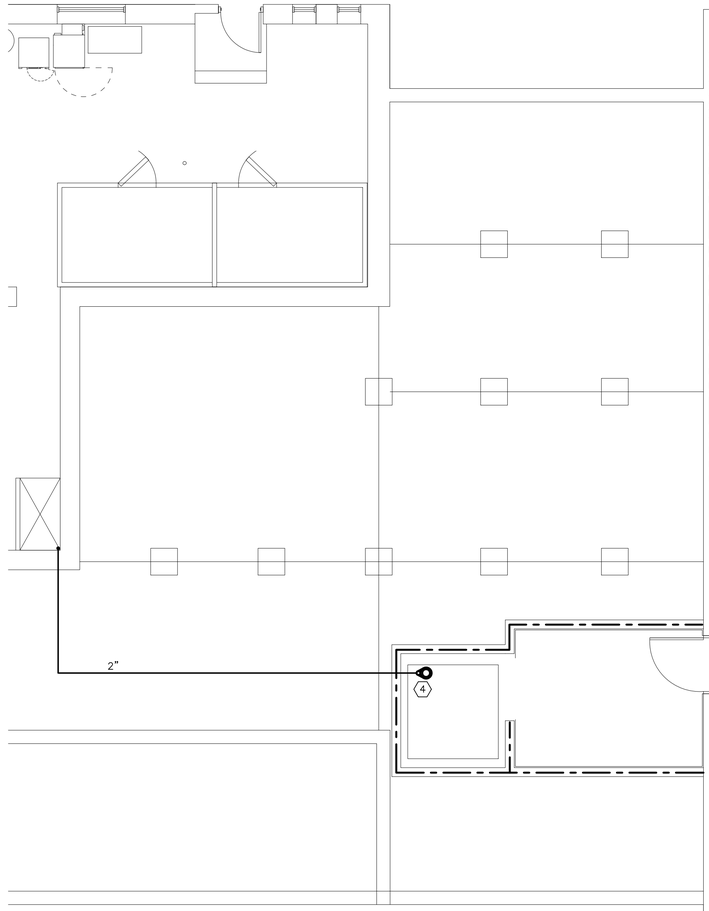


LOWER LEVEL FLOOR – PLUMBING – SUPPLY

3/16" = 1'-0"

KEYED MECHANICAL NOTES:

1. EXISTING 2" WATER SERVICE UP FROM BELOW SLAB.
2. RELOCATE EXISTING BACKFLOW DEVICE AND PRV. SEE DETAIL SHEET P2.1.
3. EXTEND 1" CW PIPING FROM EXISTING VALVE TO RESTROOMS AND SINKS. REMOVE EXISTING 1/2" TAP TO BELOW SLAB.
4. PROVIDE UNDER SINK WALL MOUNTED 2 KW INSTANTANEOUS ELECTRIC WATER HEATER (WH-1). PIPE TO BOTH LAVATORIES.
5. PROVIDE UNDER COUNTER 7 KW INSTANTANEOUS ELECTRIC WATER HEATER (WH-2) FOR SINK.
6. ENSURE EXISTING PIPE PENETRATIONS ARE SEALED TO MATCH RATINGS.

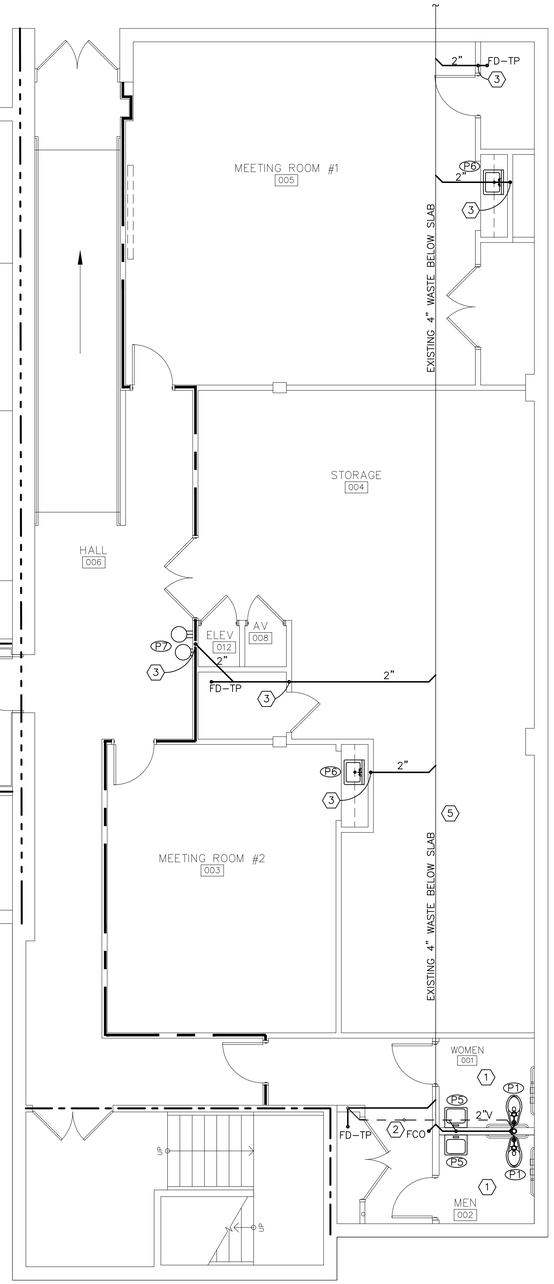


LOWER LEVEL FLOOR – PLUMBING – DWV

3/16" = 1'-0"

KEYED PLUMBING NOTES:

1. FLOOR SHALL BE REMOVED BY GC TO EXPOSE WASTE PIPING. REMOVE WASTE PIPING AS REQUIRED TO INSTALL NEW FIXTURES.
2. EXISTING 2" VENT PIPING UP.
3. PROVIDE AIR ADMITTANCE DEVICE FOR FLOOR DRAIN AND SINK VENTING. PROVIDE WALL VENT FOR ACCESS.
4. 2" FORCE MAIN FROM ELEVATOR SUMP PUMP. ROUTE DRAIN TO EXISTING MOP SINK.
5. FIELD VERIFY LOCATIONS & CONDITIONS OF EXISTING SEWER LINE. REPORT DEFICIENCY TO ENGINEER.



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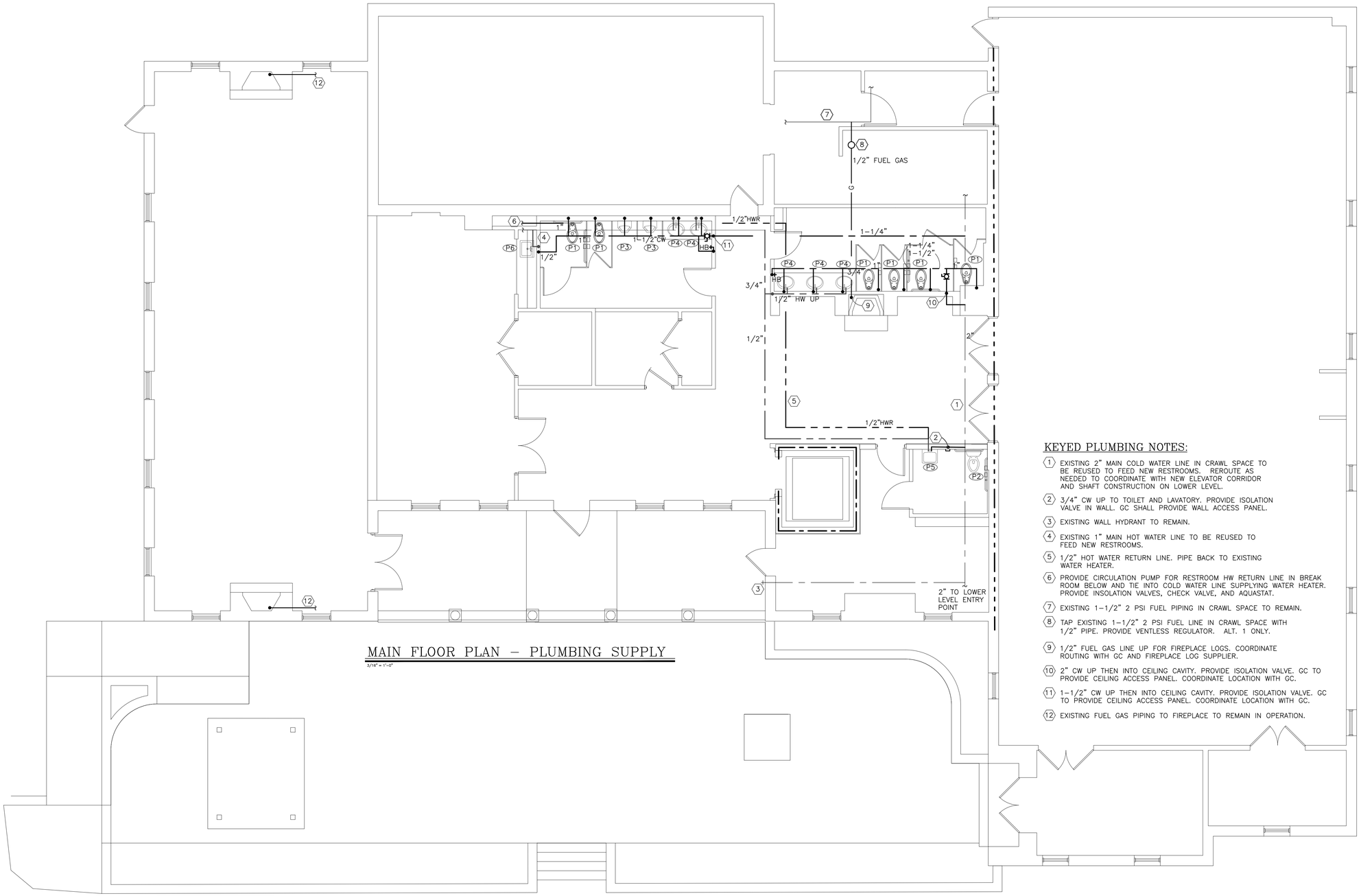
Morganton Community House

120 N. King Street
Morganton, NC

Project Number: 1236
Revisions:

Drawing:
Plumbing Plans - Lower Level
Date: 10/17/2016

Sheet Number:
P1.1



KEYED PLUMBING NOTES:

1. EXISTING 2" MAIN COLD WATER LINE IN CRAWL SPACE TO BE REUSED TO FEED NEW RESTROOMS. REROUTE AS NEEDED TO COORDINATE WITH NEW ELEVATOR CORRIDOR AND SHAFT CONSTRUCTION ON LOWER LEVEL.
2. 3/4" CW UP TO TOILET AND LAVATORY. PROVIDE ISOLATION VALVE IN WALL. GC SHALL PROVIDE WALL ACCESS PANEL.
3. EXISTING WALL HYDRANT TO REMAIN.
4. EXISTING 1" MAIN HOT WATER LINE TO BE REUSED TO FEED NEW RESTROOMS.
5. 1/2" HOT WATER RETURN LINE. PIPE BACK TO EXISTING WATER HEATER.
6. PROVIDE CIRCULATION PUMP FOR RESTROOM HW RETURN LINE IN BREAK ROOM BELOW AND TIE INTO COLD WATER LINE SUPPLYING WATER HEATER. PROVIDE INSOLATION VALVES, CHECK VALVE, AND AQUASTAT.
7. EXISTING 1-1/2" 2 PSI FUEL PIPING IN CRAWL SPACE TO REMAIN.
8. TAP EXISTING 1-1/2" 2 PSI FUEL LINE IN CRAWL SPACE WITH 1/2" PIPE. PROVIDE VENTLESS REGULATOR. ALT. 1 ONLY.
9. 1/2" FUEL GAS LINE UP FOR FIREPLACE LOGS. COORDINATE ROUTING WITH GC AND FIREPLACE LOG SUPPLIER.
10. 2" CW UP THEN INTO CEILING CAVITY. PROVIDE ISOLATION VALVE. GC TO PROVIDE CEILING ACCESS PANEL. COORDINATE LOCATION WITH GC.
11. 1-1/2" CW UP THEN INTO CEILING CAVITY. PROVIDE ISOLATION VALVE. GC TO PROVIDE CEILING ACCESS PANEL. COORDINATE LOCATION WITH GC.
12. EXISTING FUEL GAS PIPING TO FIREPLACE TO REMAIN IN OPERATION.

NORTH

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18486 JEROME C. HAY 10/17/16

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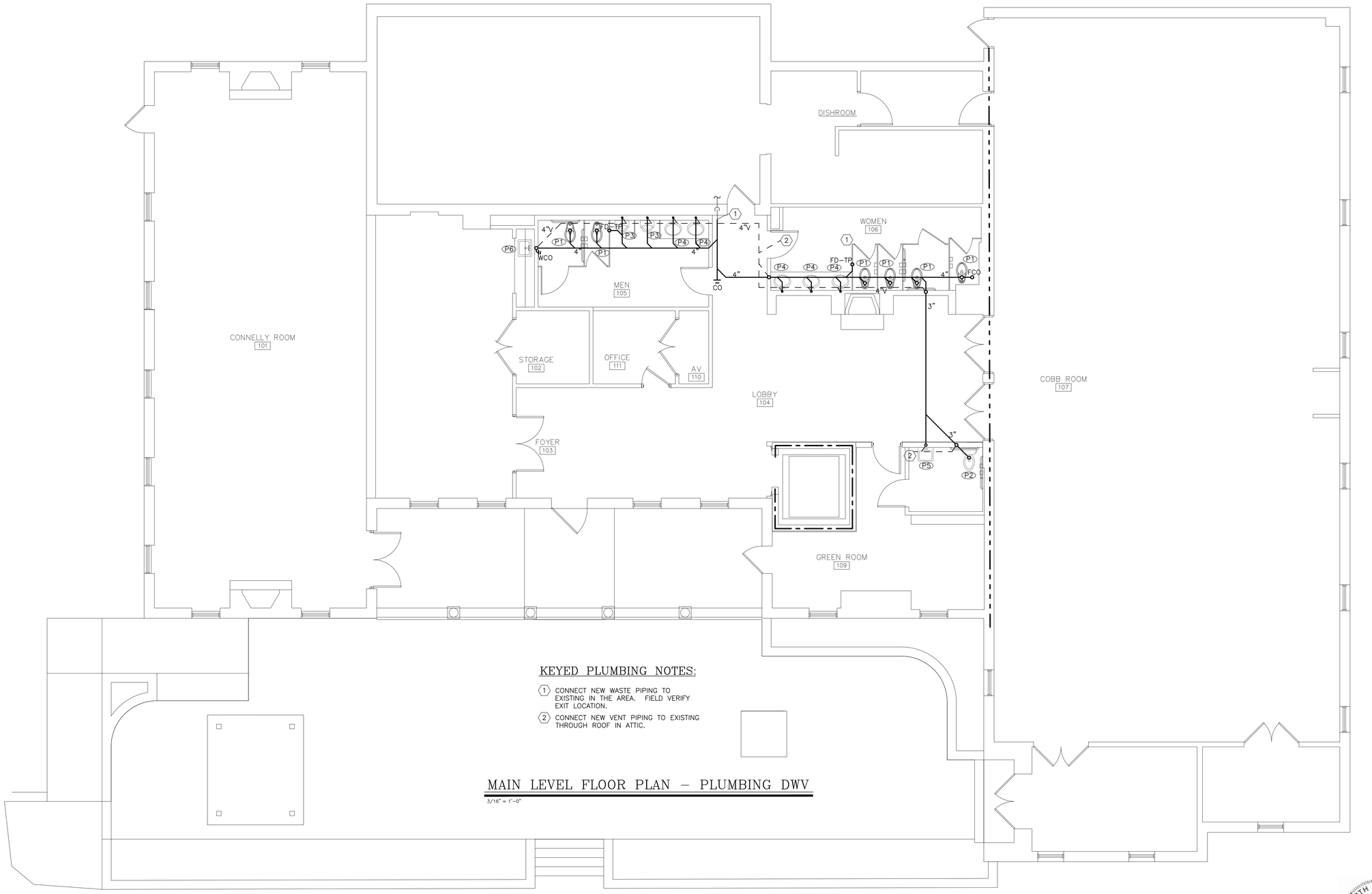
Morganton, NC

Project Number: 1236
Revisions:

Drawing:
Plumbing Plan - Main Level - Supply
Date: 10/17/2016

Sheet Number:
P1.2



KEYED PLUMBING NOTES:

1. CONNECT NEW WASTE PIPING TO EXISTING IN THE AREA. FIELD VERIFY EXIT LOCATION.
2. CONNECT NEW VENT PIPING TO EXISTING THROUGH ROOF IN ATTIC.

MAIN LEVEL FLOOR PLAN – PLUMBING DWV

3/16" = 1'-0"

NORTH

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18486 JEROME C. HAY 10/17/16

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Project Number: 1236
Revisions:

Drawing:
Plumbing Plan - Main Level - DWV
Date: 10/17/2016

Sheet Number:
P1.3

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	MANUFACTURER	MODEL	MOUNTING	COLOR	DESCRIPTION	FIXTURE CONNECTION SIZES C.W.	H.W.	Waste	Vent
P-1	WATER CLOSET (ACCESSIBLE)	KOHLER	K-4405	FLOOR RIM 17-1/2" AFF	WHITE	VITREOUS CHINA, WALL MOUNT, 17" HIGH, ELONGATED BOWL, SIPHON JET FLUSHING, 1-1/2" TOP SPUD, 1.28 GPF. SEAT: SOLID PLASTIC, ELONGATED OPEN FRONT, CHECK HINGE. ADA/NC ACCESSIBILITY CODE COMPLIANCE.	1"	-----	3"	2"
	FLUSH VALVE	SLOAN ROYAL	113-1.28 ES-S TMO	1-1/2" TOP SPUD	CHROME	AUTOMATIC, HARD WIRED ELECTRONIC OPERATED TOILET FLUSHOMETER, CONCEALED SENSOR, COURTESY FLUSH OVERRIDE BUTTON VACUUM BREAKER, NON-HOLD-OPEN INTEGRAL SOLENOID, 1.28 GALLON FLUSH. CHLORAMINE RESISTANT RUBBER. DIE CAST WALL FLANGE SENSOR PLATE, TAMPERPROOF SCREWS. 12V TRANSFORMER WITH CONNECTION WIRES.				
P-2	WATER CLOSET (ACCESSIBLE)	KOHLER	K-3658	FLOOR RIM @ 16-1/2" AFF	WHITE	VITREOUS CHINA, ELONGATED BOWL, TANK TYPE 1.28 GPF. SIPHON JET FLUSHING ACTION, TRIP HANDLE ON APPROACH SIDE OF TOILET. SEAT: SOLID PLASTIC, OPEN FRONT, CHECK HINGE, WHITE / FULL FINISH, 16-1/2" HIGH, 12" ROUGH IN. ADA/NC ACCESSIBILITY CODE COMPLIANCE.	3/4"	-----	3"	2"
P-3	URINAL (ACCESSIBLE)	KOHLER	K-4904-ET	WALL RIM @ 17" AFF	WHITE	VITREOUS CHINA, SIPHON JET URINAL WITH 3/4" TOP SPUD, .125 GPF, 2" OUTLET. MIN. 14" ELONGATED RIM, WALL MOUNTED URINAL SUPPORT, ADA/NC ACCESSIBILITY CODE COMPLIANCE.				
	FLUSH VALVE	SLOAN ROYAL	186 ESS	3/4" TOP SPUD	CHROME	AUTOMATIC, HARD WIRED ELECTRONIC OPERATED URINAL FLUSHOMETER, CONCEALED SENSOR OPERATED, COURTESY FLUSH OVERRIDE BUTTON VACUUM BREAKER, NON-HOLD-OPEN INTEGRAL SOLENOID, .125 GALLON FLUSH. CHLORAMINE RESISTANT RUBBER. DIE CAST WALL FLANGE SENSOR PLATE, TAMPERPROOF SCREWS. 12V TRANSFORMER WITH CONNECTION WIRES.	3/4"	-----	2"	2"
P-4	LAVATORY	KOHLER	K-2210	UNDERMOUNT	WHITE	19"x16" BASIN, VITREOUS CHINA, UNDERMOUNT LAVATORY WITH OVERFLOW, 1 1/4" CAST BRASS P-TRAP WITH C.O. PLUG, GRID DRAIN. ADA/NC ACCESSIBILITY CODE COMPLIANCE				
	FAUCET	DELTA	21C454	CENTERSET WITH 4" CENTERS	CHROME	DUAL LEVER BLADE HANDLES, WATER SAVING AERATOR, 0.5 MAX. GPM, SOLID BRASS CONSTRUCTION, 1 1/4" TAIL PIECE.	1/2"	1/2"	1-1/2"	1-1/2"
P-5	LAVATORY	KOHLER	K-2035	WALL	WHITE	18"x12" BASIN, VITREOUS CHINA, WALL HUNG, WALL HANGER, SHROUD, 3 HOLE, 1 1/4" CAST BRASS P-TRAP WITH C.O. PLUG, GRID DRAIN. 1 1/4" TAIL PIECE. ADA/NC ACCESSIBILITY CODE COMPLIANCE				
	FAUCET	DELTA	21C454	CENTERSET WITH 4" CENTERS	CHROME	DUAL LEVER BLADE HANDLES, WATER SAVING AERATOR, 0.5 MAX. GPM, SOLID BRASS CONSTRUCTION,	1/2"	1/2"	1-1/2"	
P-6	SINK (ACCESSIBLE)	ELKAY	ELUHAD211550PD	UUNDEMOUNT	STAINLESS STEEL	21" x 15" UNDERMOUNT SINK, 18 GAUGE STAINLESS STEEL, SINGLE COMPARTMENT, 5" DEPTH, SOUND INSULATING UNDERCOATING. STAINLESS STEEL STRAINER WITH CRUMB CUP. 1-1/2" CAST BRASS P-TRAP WITH C.O. PLUG. ADA/NC ACCESSIBILITY CODE COMPLIANCE				
	FAUCET	DELTA	26C3944	DECK	CHROME	DUAL 4" BLADE HANDLES, 8" CENTERS, SWIVEL GOOSENECK FAUCET. 1.5 GPM FLOW. BRASS CONSTRUCTION. ADA/NC ACCESSIBILITY CODE COMPLIANCE	1/2"	1/2"	1-1/2"	1-1/2"
P-7	WATER FOUNTAIN	HAWS	1011	34" AFF - LOW UNIT 40" AFF - HIGH UNIT	STAINLESS STEEL	DUAL LEVEL VANDAL RESISTANT DRINKING FOUNTAIN WITH STAINLESS STEEL ROUND BOWLS AND WALL PANEL. FRONT PUSHBUTTON ACTIVATION, CANE APRON, WALL ACCESS PANELS FOR TRAPS. ADA/NC ACCESIBILITY CODE COMPLIANCE.	1/2"	--	1-1/4"	1-1/4"

NOTE: MANUFACTURER AND MODEL ARE BASIS OF DESIGN. APPROVED EQUALS WILL BE ACCEPTED.

PLUMBING LEGEND

SYMBOL	DESCRIPTION
	COLD WATER
	HOT WATER
	SANITARY WASTE
	VENT
VTR	VENT THROUGH ROOF
CO	RISER CLEANOUT
FCO	FLOOR CLEAN-OUT
YCO	YARD CLEANOUT
VTR	VENT THROUGH THE ROOF
G	NATURAL GAS
	SHOCK ABSORBER
HB	HOSE BIBB
FPWH	FROST PROOF WALL HYDRANT
P-1	FIXTURE IDENTIFICATION (SEE SCHEDULE)
	BALL VALVE
FD-TP	FLOOR DRAIN WITH TRAP PRIMER
WCO	WALL CLEANOUT

PUMP SCHEDULE

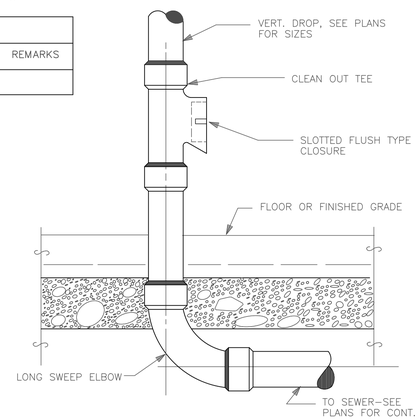
NAME	TYPE	SERVICE	GPM	HEAD (FT.)	HP (AMP)	VOLTS/PHASE	REMARKS
DHWP-1	WET ROTOR	DHW RECIRC.	6	11	(.80)	120/1	

SUMP PUMP SCHEDULE

PUMP SYSTEM	GPM	HEAD'	VOLTAGE	TYPE	HP
ELEVATOR	50	10'	120/1/60	SIMPLEX, CORD & PLUG	1/2

WATER HEATER SCHEDULE

WATER HEATER	WH-1	WH-2
TYPE	INSTANTANEOUS	INSTANTANEOUS
SYSTEM	DOMESTIC	DOMESTIC
QUANTITY	2	2
VOLTAGE	208 / 1 / 60	208 / 1 / 60
WATTAGE	2.6 Kw	7.2 Kw
AMPS / WIRE SIZE	12.7 / 12	35 / 8
RECOVERY RATE	.5 GPM - 37° RISE	1.33 GPM - 37° RISE
WIDTH	7.5"	7.5"
HEIGHT	6.5"	14"
DEPTH	3.5"	4"
MANUFACTURER	STIEBEL ELTRON	STIEBEL ELTRON
MODEL #	MINI 4-2 (ITEM 222039)	DCH 10-2 (ITEM 074D56)

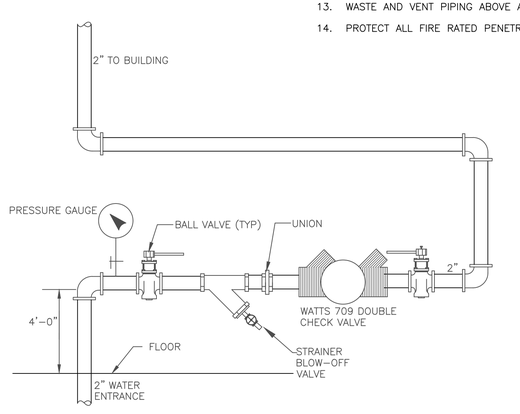


WASTE CLEANOUT AT WALL DETAIL

NTS

PLUMBING GENERAL NOTES:

1. UNLESS OTHERWISE INDICATED PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, CORE-DRILLING AND PATCHING REQUIRED TO INSTALL PLUMBING WORK.
2. PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATING PLUMBING RELATED WORK WITH OTHER TRADES. PLUMBING CONTRACTOR IS CAUTIONED THAT IT IS TOTALLY HIS RESPONSIBILITY TO COORDINATE HANGERS AND SUPPORTS WITH OTHER TRADES.
3. VISIT THE SITE PRIOR TO BID DATE AND EXAMINE ALL AREAS TO BE RENOVATED. THOROUGHLY FAMILIARIZE YOURSELF WITH EXISTING CONDITIONS. NO EXTRA COMPENSATION WILL BE GIVEN FOR FAILURE TO THOROUGHLY EXAMINE EXIST. CONDITIONS TO DETERMINE THE EXACT SCOPE OF WORK. "KEYED" NOTES ON THE DRAWINGS ARE PROVIDED TO ASSIST BIDDERS TO DETERMINE THE SCOPE OF WORK.
4. EXISTING AREAS WHETHER WITHIN OR WITHOUT THE "GENERAL LIMITS OF CONSTRUCTION", SHALL BE REPAIRED WHERE ANY DAMAGE HAS OCCURRED DUE TO CONSTRUCTION BY THE CONTRACTOR.
5. ALL SHUTDOWNS OF THE EXISTING UTILITIES SHALL BE SCHEDULED IN ADVANCE WITH OWNER.
6. PLUMBING CONTRACTOR IS RESPONSIBLE FOR CUTTING OF ANY CONCRETE, TRENCHING AND BACKFILL REQUIRED TO INSTALL PIPING. GC IS RESPONSIBLE FOR CONCRETE REPAIR.
7. REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES NOT SHOWN ON PLANS.
8. PLUMBER SHALL PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE AND PROPERLY FUNCTIONING PROJECT INCLUDING BUT NOT LIMITED TO; HEAVY PATTERN STOP VALVES, SUPPLY HOSES, AND P-TRAPS ETC. PC SHALL INSTALL ALL FIXTURES, FAUCETS AND ACCESSORIES REQUIRED TO PROVIDE A COMPLETE AND PROPERLY FUNCTIONING PROJECT. SEE FIXTURE SCHEDULE FOR PIPE SIZES AND PC SUPPLIED FIXTURES.
9. WARRANT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHOWN OR IMPLIED BY THESE DOCUMENTS TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM THE TIME OF ACCEPTANCE BY THE OWNER. IF WITHIN ONE YEAR AFTER THE OWNER'S ACCEPTANCE DATE ANY WORK OR EQUIPMENT IS FOUND TO BE DEFECTIVE, CORRECT IT PROMPTLY AT NO COST TO THE OWNER.
10. A PLUMBING INSPECTION CERTIFICATE SHALL BE ISSUED BY THE INSPECTION AUTHORITIES HAVING JURISDICTION BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT.
11. DOMESTIC WATER PIPING SHALL BE TYPE L COPPER WITH WROUGHT COPPER SOLDER-JOINT FITTINGS. JOINTS SHALL BE 95/5 TIN ANTIMONY SOLDER.
12. PROVIDE 1/2" CLOSED CELL INSULATION FOR COLD WATER PIPING AND 1" FOR HOT WATER PIPING.
13. WASTE AND VENT PIPING ABOVE AND BELOW GRADE SHALL BE SCHEDULE 40 PVC.
14. PROTECT ALL FIRE RATED PENETRATIONS.



EXISTING WATER ENTRY DETAIL

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NOTE: EXISTING WATER ENTRY TO BE RELOCATED.

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Morganton Community House

120 N. King Street
Morganton, NC

Project Number: 1236
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Drawing:
Plumbing - Details, Schedules & Legend
Date: 10/17/2016

Sheet Number:
P2.1

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CONSULTING ENGINEERS
LICENSE # C-1035

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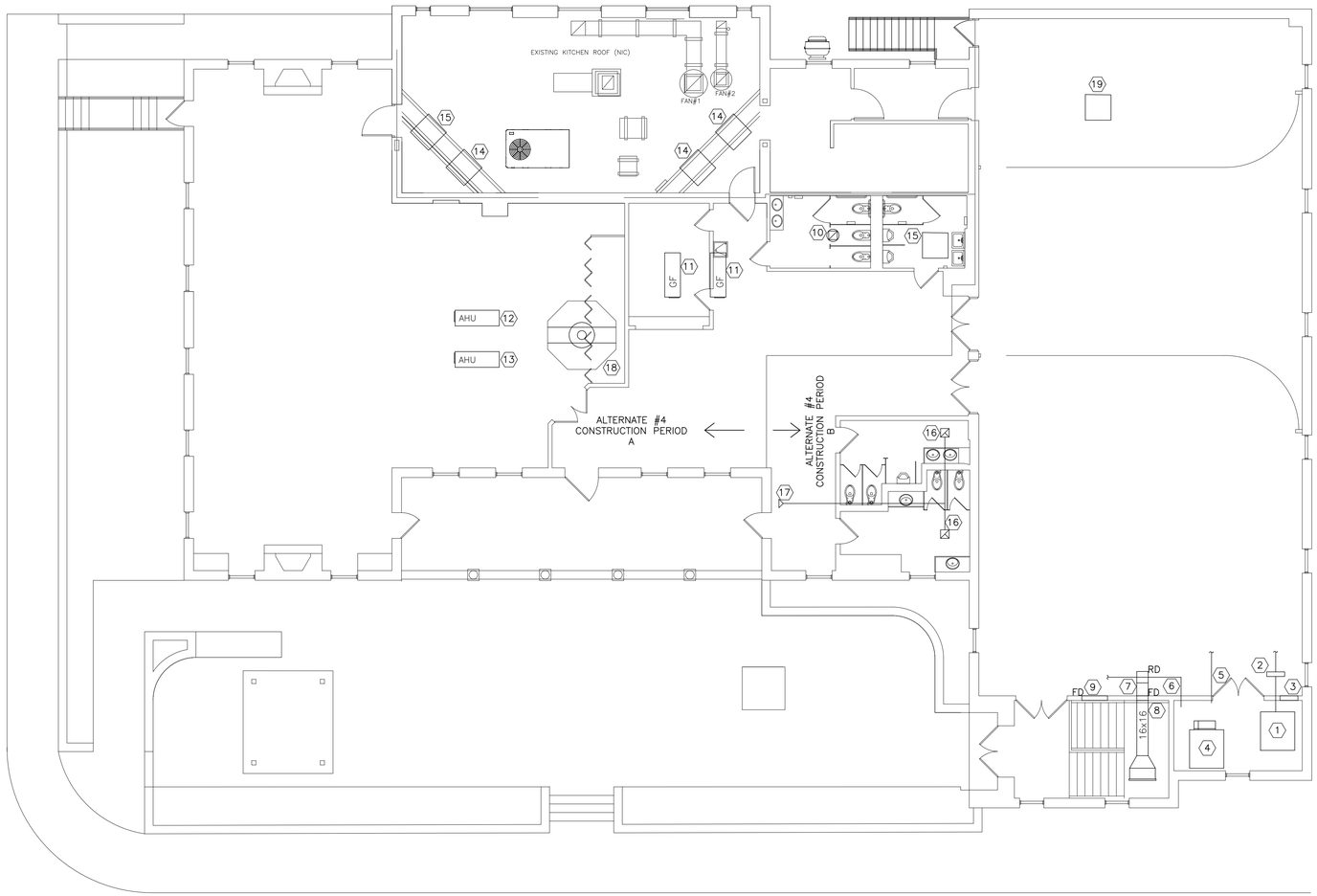

MAIN FLOOR – MECHANICAL – DEMOLITION

3/16" = 1'-0"

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: 11º F
summer dry bulb: 90º F

Interior design conditions
winter dry bulb: 70º F
summer dry bulb: 75º F
relative humidity: 50%

Building heating load: 350,000 btu/hr

Building cooling load: 50 tons

Mechanical Spacing Conditioning System
Unitary
See Schedules
Boiler
Size category. If oversized, state reason: N/A
Chiller
Size category. If oversized, state reason: N/A

List equipment efficiencies: See Mechanical Schedule

KEYED MECHANICAL NOTES:

1. EXISTING 7.5 TON AHU HIGH IN MECHANICAL ROOM. REMOVE AHU, DUCTING, AND REFRIGERANT PIPING BACK TO ROOF MOUNTED HEAT PUMP.
2. REMOVE EXISTING 10KW DUCT HEATER ABOVE CEILING.
3. EXISTING TRANSFER GRILLE IN WALL TO BE REMOVED. GC TO REPAIR WALL.
4. EXISTING (LESS THAN 1 YEAR OLD) 7.5 TON AHU HIGH IN MECHANICAL ROOM WITH ATTACHED 15KW ELECTRIC HEATER. RAISE HIGH TO CEILING AS POSSIBLE.
5. REMOVE ALL SUPPLY DUCTING AND ASSOCIATED AIR DISTRIBUTION DEVICES.
6. REMOVE COMMON RETURN DUCTING FROM MECHANICAL ROOM AND ABOVE CEILING.
7. REMOVE OUTSIDE AIR DUCT AND RADIATION DAMPER AT ATTIC PENETRATION.
8. REMOVE EXISTING OUTSIDE AIR DUCT AND FIRE DAMPER IN WALL. GC TO REPAIR WALL.
9. EXISTING 36x24 FIRE DAMPER IN WALL FOR ATTIC VENTILATION TO REMAIN.
10. REMOVE EXISTING FAN. CAP CURB FOR REUSE.
11. EXISTING GAS FURNACES IN ATTIC. REMOVE DUCTING, FLUE PIPING, REFRIGERANT PIPING BACK TO CONDENSING UNITS LOCATED ON ROOF ABOVE KITCHEN AND ASSOCIATED AIR DISTRIBUTION DEVICES. CAP GAS PIPING. ROOF PATCHING FOR FLUE PIPING BY GC. ROOFING WARRANTY MUST BE MAINTAINED.
12. EXISTING 5 TON AHU HIGH IN ATTIC. REMOVE AHU, DUCTING, AND REFRIGERANT PIPING BACK TO ROOF MOUNTED HEAT PUMP.
13. EXISTING (LESS THAN 1 YEAR OLD) 5 TON AHU IN ATTIC. RELOCATE IF REQUIRED TO INSTALL NEW DUCTING. REMOVE DUCTING, AND ALL ASSOCIATED AIR DISTRIBUTION DEVICES.
14. REMOVE OLD OUTDOOR UNITS ON ROOF.
15. NEWER TRANE HEAT PUMP ON ROOF TO REMAIN.
16. REMOVE EXISTING CEILING EXHAUST FANS AND DUCTING TO MAIN LINE.
17. MAIN EXHAUST DUCT TO ROOF GABLE VENT TO REMAIN FOR REUSE.
18. REMOVE EXHAUST FAN MOUNTED BELOW CUPOLA IN ATTIC ABOVE.
19. REMOVE EXISTING CONDENSING UNIT ON ROOF. COORDINATE WITH EC TO REMOVE ELECTRICAL WIRING. PROVIDE NEW WEATHER TIGHT SHEET METAL CAP ON CURB.

ALTERNATE #4

THIS ALTERNATE SEPARATES THE CONSTRUCTION INTO TWO PERIODS, A AND B. SEE DRAWING A8 FOR SEQUENCING DESCRIPTIONS AND DRAWINGS.

1. CONSTRUCTION PERIOD A INCLUDES THE NEW CONNELLY ROOM, AND RESTROOMS, AND MOST OF THE LOBBY. THE COBB ROOM, KITCHEN, AND ONE SET OF RESTROOMS WILL REMAIN IN USE. THE KITCHEN AND LOWER LOBBY RESTROOMS MUST BE MAINTAINED IN OPERATION. COORDINATE OUTAGES WITH OWNER TO OCCUR DURING UNOCCUPIED PERIODS.
2. CONSTRUCTION PERIOD B INCLUDES THE COBB ROOM, ELEVATOR, GREEN ROOM, AND THE REMAINDER OF THE LOBBY. THE KITCHEN AND NEW LOBBY RESTROOMS MUST BE MAINTAINED IN OPERATION. COORDINATE OUTAGES WITH OWNER TO OCCUR DURING UNOCCUPIED PERIODS.
3. THE LOWER LEVEL IS AVAILABLE FOR THE CONTRACTOR THROUGHOUT CONSTRUCTION. HOWEVER, ANY MECHANICAL REVISIONS MUST NOT IMPACT THE USE OF THE BUILDING.

NORTH

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18486 JEROME C. HAY 10/17/16

SUD ASSOCIATES, P.A.
CONSULTING ENGINEERS
LICENSE # C-1035

1813 CHAPEL HILL ROAD
DURHAM, NORTH CAROLINA
919-493-5277

FLAT IRON BUILDING SUITE 706
20 BATTERY PARK AVENUE
ASHEVILLE, NORTH CAROLINA
828-255-4691

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78 1/2 Patton Avenue, Asheville, NC 28801
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Morganton Community House

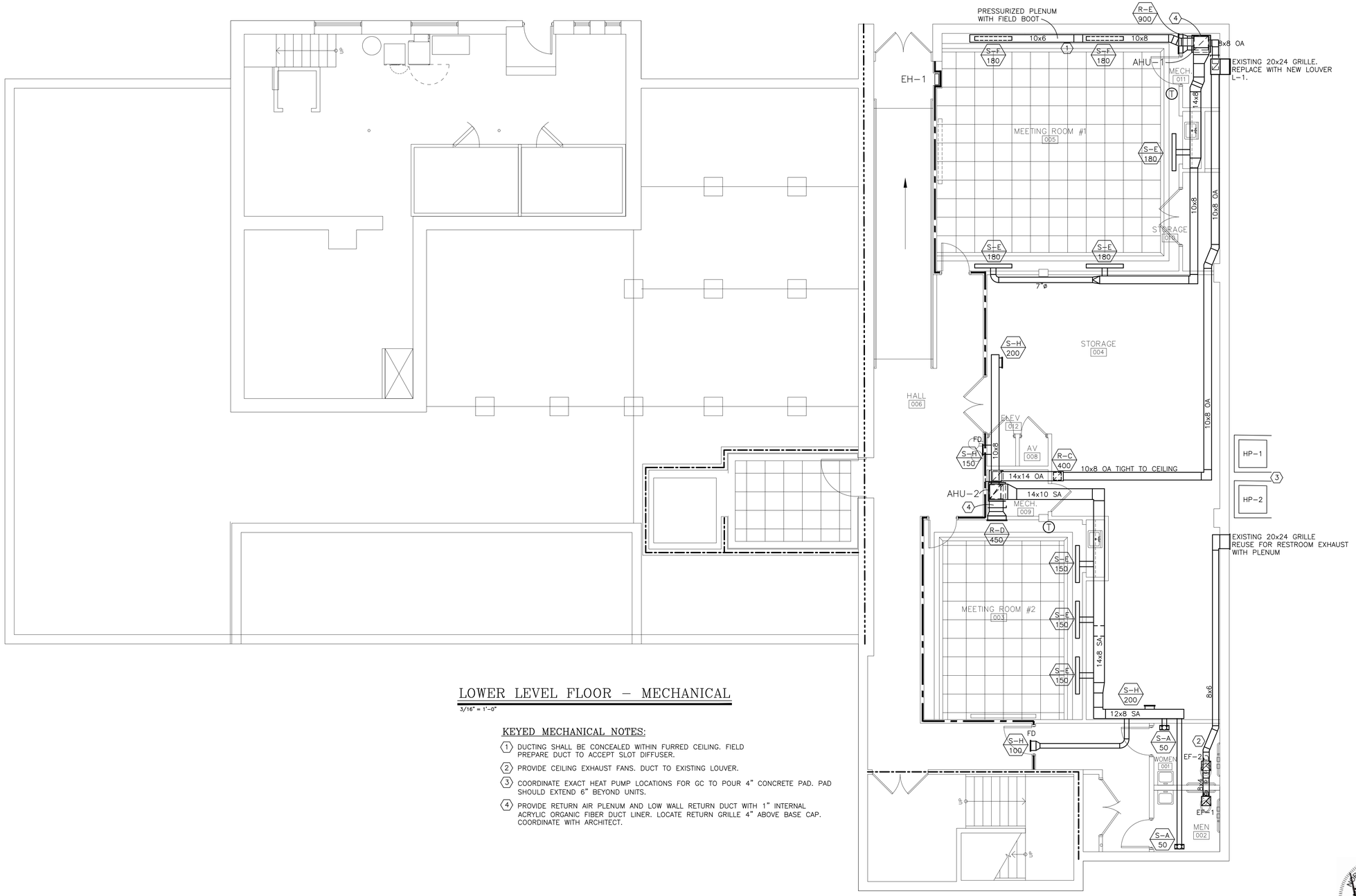
120 N. King Street
Morganton, NC

Project Number: 1236
Revisions:

Drawing:
Mechanical Plan - Demolition

Date: 10/17/2016

Sheet Number:
M0.1



LOWER LEVEL FLOOR – MECHANICAL

3/16" = 1'-0"

KEYED MECHANICAL NOTES:

1. DUCTING SHALL BE CONCEALED WITHIN FURRED CEILING. FIELD PREPARE DUCT TO ACCEPT SLOT DIFFUSER.
2. PROVIDE CEILING EXHAUST FANS. DUCT TO EXISTING LOUVER.
3. COORDINATE EXACT HEAT PUMP LOCATIONS FOR GC TO POUR 4" CONCRETE PAD. PAD SHOULD EXTEND 6" BEYOND UNITS.
4. PROVIDE RETURN AIR PLENUM AND LOW WALL RETURN DUCT WITH 1" INTERNAL ACRYLIC ORGANIC FIBER DUCT LINER. LOCATE RETURN GRILLE 4" ABOVE BASE CAP. COORDINATE WITH ARCHITECT.

NORTH

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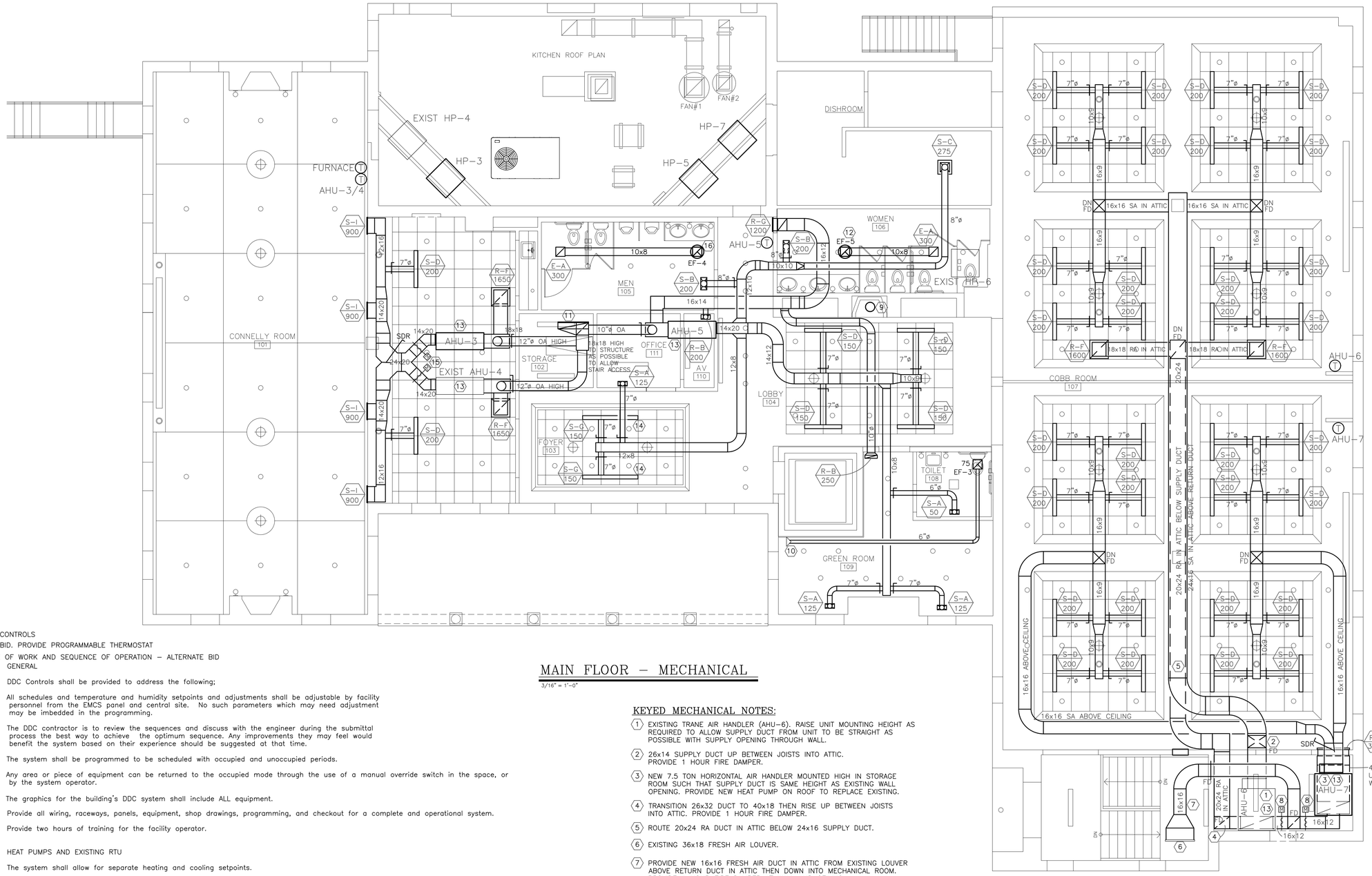

MAIN FLOOR – MECHANICAL

3/16" = 1'-0"

HVAC CONTROLS

BASE BID. PROVIDE PROGRAMMABLE THERMOSTAT

SCOPE OF WORK AND SEQUENCE OF OPERATION – ALTERNATE BID

1. GENERAL

A. DDC Controls shall be provided to address the following;

B. All schedules and temperature and humidity setpoints and adjustments shall be adjustable by facility personnel from the EMCS panel and central site. No such parameters which may need adjustment may be imbedded in the programming.

C. The DDC contractor is to review the sequences and discuss with the engineer during the submittal process the best way to achieve the optimum sequence. Any improvements they may feel would benefit the system based on their experience should be suggested at that time.

D. The system shall be programmed to be scheduled with occupied and unoccupied periods.

E. Any area or piece of equipment can be returned to the occupied mode through the use of a manual override switch in the space, or by the system operator.

F. The graphics for the building's DDC system shall include ALL equipment.

G. Provide all wiring, raceways, panels, equipment, shop drawings, programming, and checkout for a complete and operational system.

H. Provide two hours of training for the facility operator.

2. HEAT PUMPS AND EXISTING RTU

A. The system shall allow for separate heating and cooling setpoints.

B. Twinned units have a lead and lag unit. Lead and lag units shall be alternated.

C. The twinned AHU's shall operate in sequence to satisfy the space loads. When the space is in the occupied mode the lead AHU shall be operated. If the lead unit does not satisfy the load with the coil fully opened, then the lag unit shall be turned on.

D. When the twinned unit is operated its discharge damper shall open. When it is not in operation its discharge damper shall be closed.

E. In the occupied mode the outdoor air damper shall be open. In the unoccupied mode the outdoor air damper shall be closed.

F. When an AHU calls for cooling a signal shall be sent to the heat pump to provide cooling. When an AHU calls for heating a signal shall be sent to the heat pump to provide heating. If the space is not satisfied the electric strip heat shall be enrgized.

G. In the unoccupied mode the AHUs shall be used to maintain the heating and cooling setback/setup temperature in the space.

H. Fan speed shall be preset during balancing and not controlled by the DDC system.

3. GAS FURNACES

A. The furnace shall be used for the heating season only.

B. Fans shall cycle with heating load.

C. Occupied and unoccupied periods shall have independent setpoints.

KEYED MECHANICAL NOTES:

1. EXISTING TRANE AIR HANDLER (AHU–6). RAISE UNIT MOUNTING HEIGHT AS REQUIRED TO ALLOW SUPPLY DUCT FROM UNIT TO BE STRAIGHT AS POSSIBLE WITH SUPPLY OPENING THROUGH WALL.
2. 26x14 SUPPLY DUCT UP BETWEEN JOISTS INTO ATTIC. PROVIDE 1 HOUR FIRE DAMPER.
3. NEW 7.5 TON HORIZONTAL AIR HANDLER MOUNTED HIGH IN STORAGE ROOM SUCH THAT SUPPLY DUCT IS SAME HEIGHT AS EXISTING WALL OPENING. PROVIDE NEW HEAT PUMP ON ROOF TO REPLACE EXISTING.
4. TRANSITION 26x32 DUCT TO 40x18 THEN RISE UP BETWEEN JOISTS INTO ATTIC. PROVIDE 1 HOUR FIRE DAMPER.
5. ROUTE 20x24 RA DUCT IN ATTIC BELOW 24x16 SUPPLY DUCT.
6. EXISTING 36x18 FRESH AIR LOUVER.
7. PROVIDE NEW 16x16 FRESH AIR DUCT IN ATTIC FROM EXISTING LOUVER ABOVE RETURN DUCT IN ATTIC THEN DOWN INTO MECHANICAL ROOM. PROVIDE 1 HOUR FIRE DAMPER AT WALL AND CEILING.
8. PROVIDE 3 POSITION MOTORIZED DAMPER IN 16x12 FRESH AIR DUCT TO EACH UNIT.
9. FLUE PIPING AND TERMINATION CAP PROVIDED BY FIREPLACE SUPPLIER. MC SHALL INSTALL. GC SHALL PROVIDE ROOF PENETRATION AND REPAIR ROOF AFTER INSTALLATION TO MAINTAIN ROOF WARRANTY.
10. EXISTING EXHAUST LOUVER IN ROOF. CONNECT TO 6" TOILET EXHAUST DUCT.
11. EXISTING CUPOLA HAS LOUVER LOCATED ON BACKSIDE. PROVIDE 36x8 FRESH AIR DUCT AND PLENUM BOX CONNECTING TO EXISTING LOUVER INSIDE CUPOLA. OFFSET AND TRANSITION DUCTING IN ATTIC TO 16x16 DUCT. KEEP OA DUCTING HIGH AS POSSIBLE TO STRUCTURE TO ALLOW SERVICE ACCESS.
12. REUSE EXISTING CURB FOR NEW FAN EF–5.
13. PROVIDE NEW CONDENSATE DRAINS FROM AIR HANDLERS. ROUTE AHU–6 & 7 CONDENSATE DOWN THROUGH FLOOR INTO WATER ENTRANCE ROOM AND TO FLOOR DRAIN. REMOVE ALL EXISTING CONDENSATE DRAINS AND COORDINATE WITH GC TO PATCH WALL. ROUTE AHU–3, 4, & 5 TOGETHER INTO 1–1/4" PIPE AND DOWN THROUGH STORAGE ROOM WALL INTO JANITOR'S SINK ON LOWER LEVEL.
14. PROVIDE 72" LONG SDS SLOT DIFFUSER. INSTALL 48" BOOT AND PROVIDE SHEET METAL CAP SEALING OFF ADDITIONAL 24".
15. PROVIDE MOTORIZED DAMPERS IN DISCHARGE DUCTS. DAMPERS SHALL OPEN WHEN CORRESPONDING FAN IS ENERGIZED AND CLOSE WHEN DE–ENERGIZED.
16. PROVIDE ROOF CURB FOR EXHAUST FAN. GC SHALL INSTALL AND MAINTAIN ROOFING WARRANTY.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18486 JEROME C. MAY 10/17/16

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Date: 10/17/2016

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M1.2

SPLIT SYSTEM HEAT PUMP SYSTEM SCHEDULE

AIR HANDLING UNIT SECTION														OUTDOOR CONDENSING UNIT SECTION					
DESIGNATION	SERVICE	TRANE MODEL #	SUPPLY CFM	MINIMUM OA	E.S.P.	HP (FAN)	HEAT KW	V / PHASE	MCA	MAX. FUSE	TOT. CLG. BTUH	SENS. CLG. BTUH	TOT. HTG BTUH @ 17°	TRANE MODEL #	V / PHASE	MCA	MAX. FUSE	SEER	REMARKS
AHU-1 / HP-1	BASEMENT MEETING RM #1	TEM6A0C36S41SA	1200	–	0.4	1/2	7.2	208 V / 1ø	49	50	34,000	25,600	34,000	4TWR5036D1000A	208 / 1ø	20	35	15	R-410A
AHU-2 / HP-2	BASEMENT MEETING RM #1	TEM6A0C36S41SA	1200	–	0.4	1/2	7.2	208 V / 1ø	49	50	34,000	25,600	34,000	4TWR5036D1000A	208 / 1ø	20	35	15	R-410A
AHU-3 / HP-3	CONNELLY ROOM	TEM4A0C60S51SA	2000	350	0.4	3/4	10.8	208 V / 1ø	52	60	55,000	43,300	54,500	4TWR5060G1000A	208 / 1ø	35	60	15	R-410A
AHU-4 / HP-4	CONNELLY ROOM EXISTING UNIT TO REUSED		2000	350	–	–	–	208 V / 1ø	–	–	55,000	43,300	54,500	–	208 / 1ø	–	–	–	R-410A
AHU-5 / HP-5	LOBBY / RESTROOMS	TEM4A0C60S51SA	2000	350	0.4	3/4	10.8	208 V / 1ø	52	60	55,000	43,300	54,500	4TWR5060G1000A	208 / 1ø	35	60	15	R-410A
AHU-6 / HP-6	COBB ROOM EXISTING UNIT TO BE REUSED		3200	600	0.4	–	–	208 V / 1ø	–	–	90,000	66,000	82,000	–	208 / 3ø	–	–	–	R-410A
AHU-7 / HP-7	COBB ROOM	TWE090D100A	3200	600	1.0	1-1/2	11.25	208 V / 3ø	46	50	90,000	55,000	54,000	TWA090A300AA	208 / 3ø	34.4	50	12.5	R-410A

NOTES
1. COOLING CAPACITIES AT 95 OUTDOOR DB AND 67 WB.
2. PROVIDE 3H/2C 7 DAY PROGRAMMABLE THERMOSTATS
3. PROVIDE VIBRATION ISOLATORS.
4. PROVIDE SHORT CYCLE TIMER.

GENERAL MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	TURNING VANES IN ALL SUPPLY AND RETURN 90° DUCT TURNS
	SUPPLY AIR CEILING DIFFUSER
	RETURN OR EXHAUST AIR REGISTER – SEE PLANS
MVD	MANUAL VOLUME DAMPER (TYP. ALL BRANCH TAKE-OFFS)
S-A 250	SUPPLY AIR DIFFUSER @ 250 CFM
RG-A 250	RETURN AIR REGISTER @ 250 CFM
EXH 250	EXHAUST AIR REGISTER @ 250 CFM
T AHU-1	THERMOSTAT – MOUNT AT 48" AFF
EF-1	EXHAUST FAN
SDR	SPLITTER DAMPER WITH MANUAL CONTROL ARM
FD	FIRE DAMPER
S.D.	SMOKE DETECTOR BY EC INSTALLED BY MC.

LOUVER SCHEDULE

MARK	SIZE	ACCESSORIES	MANUFACTURER / MODEL
L1	20w x 24h	BIRD SCREEN, KYNAR FINISH, COLOR BY ARCHITECT	RUSKIN ELF-811

NOTES
1. LOUVERS INSTALLED BY GENERAL CONTRACTOR.
2. MANUFACTURER AND MODEL ARE BASIS OF DESIGN. APPROVED EQUALS BY RUSKIN, ARROW UNITED AND GREENHECK WILL BE ACCEPTED.
3. FIELD VERIFY EXISTING OPENING SIZE.

SUPPLY DIFFUSER SCHEDULE

MARK	TYPE	CFM RANGE	FACE SIZE	NECK SIZE	MATERIAL	FINISH	MANUFACTURER	MODEL	REMARKS
S-A	CEILING	0 – 125	10 x 6	8 x 4	ALUMINUM	WHITE	PRICE	640	CLG MOUNTED. 2 WAY THROW, OBD
S-B	CEILING	200	10 x 8	8 x 6	ALUMINUM	WHITE	PRICE	640	CLG MOUNTED. 2 WAY THROW, OBD
S-C	CEILING	275	18 x 18	12 x 12	ALUMINUM	WHITE	PRICE	AMDA	SURFACE MOUNTED. 4 WAY THROW, OBD
S-D	LINEAR SLOT	150-200	2 SLOT, 48"	7"ø	ALUMINUM	WHITE	PRICE	SDS 100	T BAR CEILING. SDA INSULATED BOOT PLENUM
S-E	LINEAR SLOT	150-200	2 SLOT, 48"	7"ø	ALUMINUM	WHITE	PRICE	SDS 100	GYP BOARD CEILING. SDA INSULATED BOOT PLENUM
S-F	LINEAR SLOT	150-200	2 SLOT, 48"	–	ALUMINUM	WHITE	PRICE	SDS 100	GYP BOARD CEILING. FIELD INSTALLED IN DUCT
S-G	LINEAR SLOT	150	2 SLOT, 60"	7"ø	ALUMINUM	WHITE	PRICE	SDS 100	GYP BOARD CEILING. 48" SDA INSULATED BOOT PLENUM
S-H	SIDEWALL	150-200	14 X 6	12 X 14	ALUMINUM	WHITE	PRICE	620 DAL	SIDEWALL SUPPLY GRILLE, OBD
S-I	SIDEWALL	900	22 X 18	20 X 16	ALUMINUM	WHITE	PRICE	620 DAL	SIDEWALL SUPPLY GRILLE, OBD

RETURN GRILLE SCHEDULE

MARK	MOUNTING TYPE	CFM RANGE	FACE SIZE	NECK SIZE	MATERIAL	FINISH	MANUFACTURER	MODEL	REMARKS
R-A	GYP. CEILING	0 – 125	10 x 6	8 x 4	ALUMINUM	WHITE	PRICE	640	LOUVER FACE
R-B	GYP. CEILING	250	18 x 6	16 x 4	ALUMINUM	WHITE	PRICE	640	LOUVER FACE
R-C	DUCT	400	12 x 12	10 x 10	ALUMINUM	WHITE	PRICE	80	EGG CRATE WITH 1/2 CORE
R-D	WALL	450	26 x 10	24 x 8	ALUMINUM	WHITE	PRICE	635	FIXED 45° BLADES
R-E	WALL	900	26 x 18	24 x 16	ALUMINUM	WHITE	PRICE	635	FIXED 45° BLADES
R-F	T-BAR CEILING	1300-1700	24 x 24	22 x 22	ALUMINUM	WHITE	PRICE	635	FIXED 45° BLADES
R-G	WALL	1275	20 X 38	18 X 36	ALUMINUM	WHITE	PRICE	635	FIXED 45° BLADES
R-H	WALL	3000	42 x 34	40 x 32	ALUMINUM	WHITE	PRICE	635	FIXED 45° BLADES

EXHAUST GRILLE SCHEDULE

MARK	MOUNTING TYPE	CFM RANGE	FACE SIZE	NECK SIZE	MATERIAL	FINISH	MANUFACTURER	MODEL	REMARKS
E-A	GYP BOARD	300	12 x 12	10 x 10	ALUMINUM	WHITE	PRICE	80	EGG CRATE WITH 1/2 CORE

NOTES
1. EQUALS BY PRICE. METALAIRE, NAILOR, CARNES, OR TITUS WILL BE ACCEPTED.
2. PAINT DUCT BLACK BEHIND GRILLE.
3. PROVIDE SQUARE TO ROUND DUCT ADAPTERS.

FAN SCHEDULE

MARK	AREA SERVED	TYPE	CFM	SP	MAX SONES	WATTS (HP)	VOLT/PHASE	MANUFACTURER / MODEL	TERMINATION REMARKS
EF-1	TOILET 001	CEILING	75	.250	1.5	20.7	120-1	GREENHECK / SP-B90	CONNECT TO EXISTING LOUVER
EF-2	TOILET 002	CEILING	75	.250	1.5	20.7	120-1	GREENHECK / SP-B90	
EF-3	TOILET 108	CEILING	75	.250	1.5	20.7	120-1	GREENHECK / SP-B90	CONNECT TO EXISTING ROOF VENT
EF-4	TOILET 105	ROOF	300	.2	5.4	(1/4)	120-1	GREENHECK / G-080	PROVIDE ROOF CURB FOR PITCHED ROOF
EF-5	TOILET 106	ROOF	300	.2	5.4	(1/4)	120-1	GREENHECK / G-080	USE EXISTING ROOF CURB

NOTES:
1. SWITCH EF-1, EF-2, EF-4 AND EF-5 WITH LIGHTING MOTION SENSORS.
2. SWITCH EF-3 SEPARATE FROM LIGHTING.
3. PROVIDE GRAVITY BACKDRAFT DAMPER FOR ALL FANS.

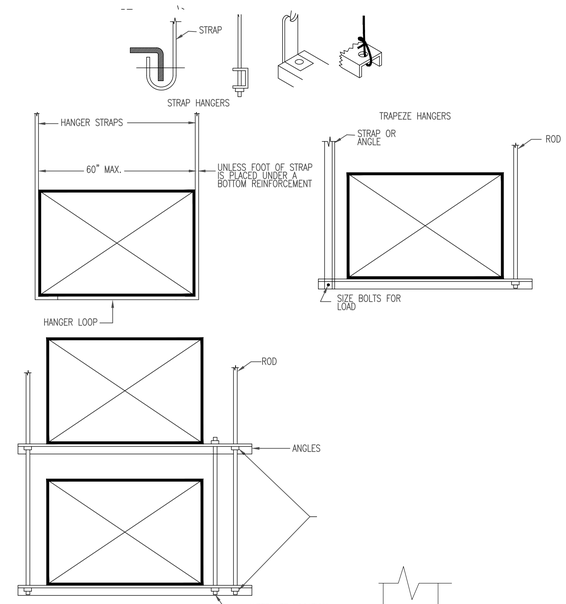
ELECTRIC WALL AND UNIT HEATER SCHEDULE

MARK	AREA SERVED	QUANTITY	TYPE	WATTS	VOLT/PHASE	MANUFACTURER / MODEL	REMARKS
EH-1	BASEMENT ENTRY	1	FORCED AIR WALL HEATER	2000	240-1	MARKEL HF3324TTD-RP	18GA. STEEL

PROVIDE WITH TAMPER PROOF THERMOSTAT AND INTEGRAL DISCONNECT.. COORDINATE SET POINT WITH OWNER.

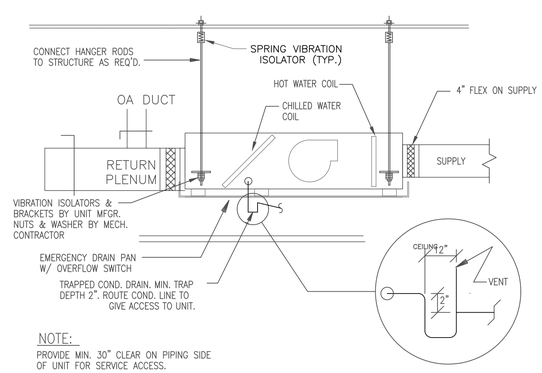
MECHANICAL GENERAL NOTES:

1. THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE APPROXIMATE LOCATION OF EQUIPMENT AND DUCTWORK. MINOR ADJUSTMENTS AND OFFSETS SHALL BE PROVIDED WHERE REQUIRED AT NO ADDITIONAL COST TO THE OWNER. COORDINATE CHANGES IN ROUTING OR OTHER WORK WITH THE ENGINEER PRIOR TO PROCEEDING.
2. EXISTING AREAS WHETHER WITHIN OR WITHOUT THE "GENERAL LIMITS OF CONSTRUCTION", SHALL BE REPAIRED WHERE ANY DAMAGE HAS OCCURRED DUE TO CONSTRUCTION BY THE CONTRACTOR.
3. CONTRACTOR IS RESPONSIBLE FOR SEALING ALL PENETRATIONS THROUGH ALL WALLS TO PREVENT SOUND TRANSFER. GROUT OR GYPSUM WALL BD. "MUD" MAY BE USED FOR NON RATED WALLS. PENETRATIONS THROUGH RATED WALLS SHALL BE MADE PER CODE.
4. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE NORTH CAROLINA STATE MECHANICAL CODE.
5. UNLESS OTHERWISE INDICATED MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, CORE-DRILLING AND PATCHING OF FLOORING AND WALLS AS REQUIRED TO MATCH EXISTING CONDITIONS.
6. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING MECHANICAL RELATED WORK WITH OTHER TRADES. MECHANICAL CONTRACTOR IS CAUTIONED THAT IT IS TOTALLY HIS RESPONSIBILITY TO COORDINATE HANGERS AND SUPPORTS ETC. WITH OTHER TRADES.
7. DUCT DIMENSIONS INDICATED ON THE PLANS ARE NET INSIDE DIMENSIONS. FIELD VERIFY ALL MEASUREMENTS AND DIMENSIONS BEFORE FABRICATING DUCTWORK.
8. ALL SOLID DUCTWORK SHALL BE GALVANIZED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE CURRENT SMACNA DUCT CONSTRUCTION STANDARDS. DUCT SHALL BE CONSTRUCTED FOR ANTICIPATED STATIC PRESSURES. ALL JOINTS SHALL BE SEALED WITH MASTIC.
9. ALL NEW METAL SUPPLY, RETURN AND FRESH AIR DUCTWORK SHALL BE INSULATED WITH 2" EXTERNAL, 1 LB. DENSITY DUCT INSULATION, PROPERLY TAPED AND SEALED TO PROVIDE A CONTINUOUS VAPOR BARRIER. DUCTING EXPOSED TO ATTIC CONDITIONS OUTSIDE MECHANICAL ROOMS SHALL BE PROVIDED WITH AN ADDITIONAL 2" OF 1 LB INSULATION. EXHAUST DUCTWORK DOES NOT TO BE INSULATED.
10. ALL SUPPLY DUCT ELBOWS SHALL CONTAIN TURNING VANES.
11. FIELD VERIFY UNIT & DUCT LOCATIONS. COORDINATE DUCT SIZING AND LAYOUT WITH BUILDING STRUCTURE PRIOR TO INSTALLATION. REVISE DUCTS TO EQUIVALENT SIZES AS NEEDED.
12. MOUNT ROOM TEMPERATURE SENSORS AT 48" AFF.
13. ALL EQUIPMENT SHALL BE LABELED WITH PERMANENT LABELS, PROPERLY AFFIXED TO THE EQUIPMENT.
14. ALL CONTROL WIRING MUST BE CONCEALED. COORDINATE HVAC CONTROLS LOCATIONS WITH OWNER BEFORE MOUNTING.
15. REFRIGERANT PIPING SHALL HAVE BRAZED FITTINGS. RUN NITROGEN THROUGH LINES DURING BRAZING. ALL LINES MUST REMAIN CAPPED EXCEPT WHEN BRAZING.



DUCT HANGER ATTACHMENTS

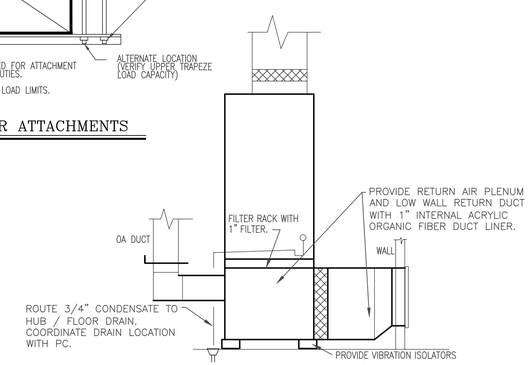
NO SCALE



NOTE:
PROVIDE MIN. 30" CLEAR ON PIPING SIDE OF UNIT FOR SERVICE ACCESS.

HORIZONTAL AHU UNIT DETAIL

NTS



TYPICAL VERTICAL AHU DETAIL

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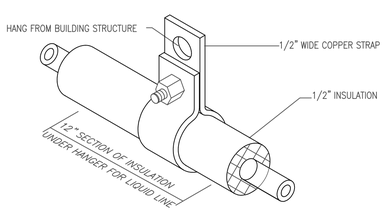

REFRIGERANT LINE HANGER DETAIL

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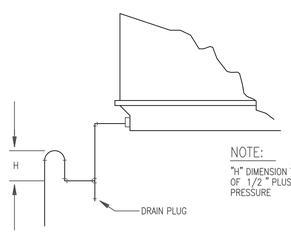

NOTE:
"H" DIMENSION TO BE MINIMUM OF 1/2" PLUS TOTAL STATIC PRESSURE

CONDENSATE DRAIN FROM BLOW-THRU UNITS

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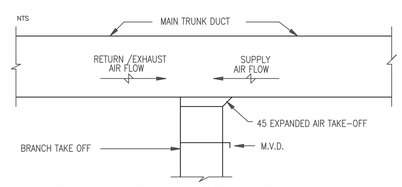

BRANCH TAKE-OFF DETAIL

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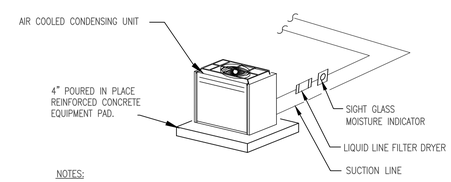
NOTE:
TYPICAL FOR ALL SUPPLY, RETURN, EXHAUST AND OUTDOOR DUCTWORK TAKE-OFFS.



NOTES:
1. PROVIDE MINIMUM CLEARANCE AROUND UNIT AS RECOMMENDED BY THE UNIT MANUFACTURER FOR PROPER OPERATION OF UNIT.
2. PROVIDE 24 V. WIRING AND 3/4" CONDUIT FROM INDOOR UNIT TO CONDENSING UNIT.

CONDENSING UNIT DETAIL

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1813 CHAPEL HILL ROAD
DURHAM, NORTH CAROLINA
919-493-5277

FLAT IRON BUILDING SUITE 706
20 BATTERY PARK AVENUE
ASHEVILLE, NORTH CAROLINA
828-255-4691

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PROJECT NO. 16203

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Morganton Community House

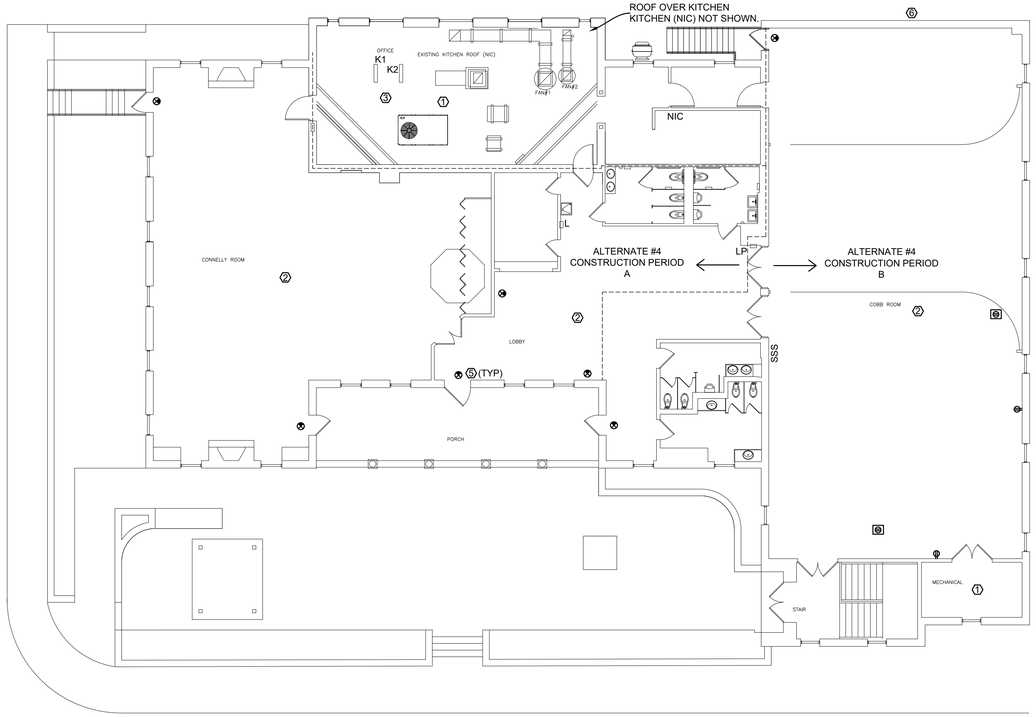
120 N. King Street
Morganton, NC

Project Number: 1236
Revisions:

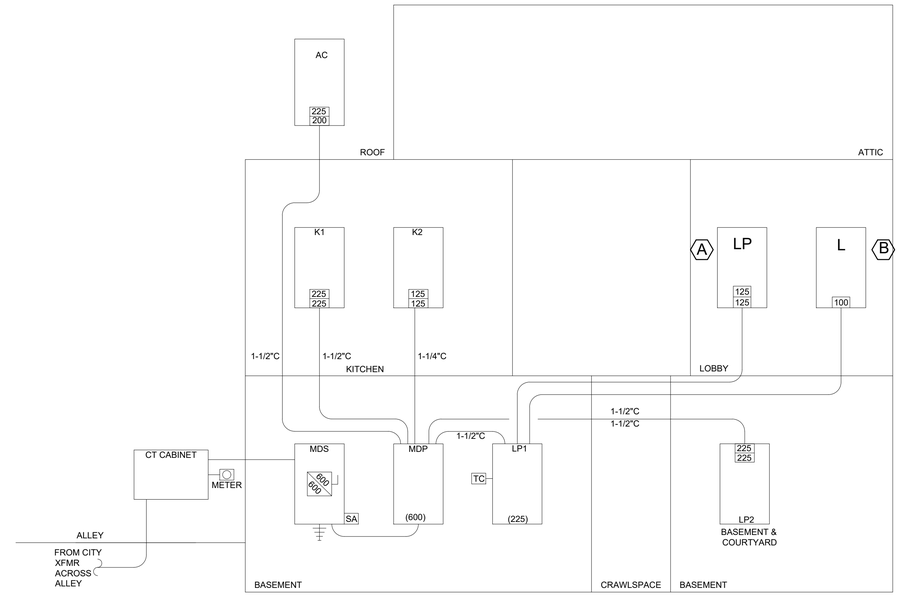
Drawing:
Mechanical Schedules, Details

Date: 10/17/2016

Sheet Number:
M2.1



1 E0.1 MAIN LEVEL POWER DEMOLITION
3/32" = 1'

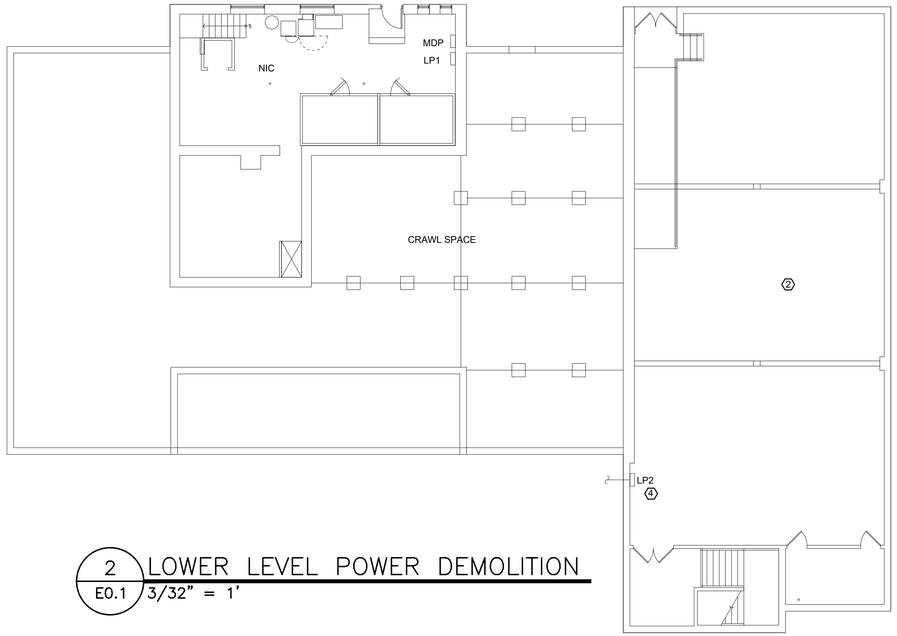


3 E0.1 POWER RISER
NTS

KEYED NOTES:

A REMOVE PANEL LP, AND FEEDER FROM PANEL LP1.

B REMOVE PANEL L, AND FEEDER FROM PANEL LP1.



2 E0.1 LOWER LEVEL POWER DEMOLITION
3/32" = 1'

ALTERNATE #4

THIS ALTERNATE SEPARATES THE CONSTRUCTION INTO TWO PERIODS, A AND B. SEE DRAWING A8 FOR SEQUENCING DESCRIPTIONS AND DRAWINGS.

1 CONSTRUCTION PERIOD A INCLUDES THE NEW CONNELLY ROOM, AND RESTROOMS, AND MOST OF THE LOBBY. THE COBB ROOM, KITCHEN, AND ONE SET OF RESTROOMS WILL REMAIN IN USE. PANEL LP SERVES THE COBB ROOM AND WILL STAY IN SERVICE. ALL NEEDED CIRCUITS IN THE RESTROOMS AND EXIT CORRIDOR SHALL BE TEMPORARILY REFED FROM PANEL LP OR ANOTHER ACTIVE PANEL.

2 CONSTRUCTION PERIOD B INCLUDES THE COBB ROOM, ELEVATOR, GREEN ROOM, AND THE REMAINDER OF THE LOBBY. THE CONNELLY ROOM, NEW RESTROOMS, AND LOBBY MUST BE ABLE TO BE OCCUPIED.

3 THE LOWER LEVEL IS AVAILABLE FOR THE CONTRACTOR THROUGHOUT CONSTRUCTION.

ELECTRICAL APPENDIX B

ELECTRICAL SUMMARY - ELECTRICAL SYSTEMS AND EQUIPMENT	
METHOD OF COMPLIANCE:	
ENERGY CODE: ☒ Prescriptive ☐ Performance ASHRAE 90.1: ☐ Prescriptive ☐ Performance	
LIGHTING SCHEDULE	
LAMP TYPE REQUIRED IN FIXTURE	SEE DRAWINGS
NUMBER OF LAMPS IN FIXTURE	SEE DRAWINGS
BALLAST TYPE USED IN THE FIXTURE	SEE DRAWINGS
NUMBER OF BALLASTS IN FIXTURE	SEE DRAWINGS
TOTAL WATTAGE PER FIXTURE	SEE DRAWINGS
TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED	SEE DRAWINGS
TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED	8650 VS 10990
ADDITIONAL PRESCRIPTIVE COMPLIANCE	N/A
506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT	
506.2.2 REDUCED LIGHTING POWER DENSITY	
506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS	
506.2.4 HIGHER EFFICIENCY SERVICE WATER HEATING	
506.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY	
506.2.6 AUTOMATIC DAYLIGHT CONTROL SYSTEMS	

FIRST FLOOR AND BASEMENT KEYED NOTES:

1. AS NEEDED TO SUPPORT MECHANICAL WORK PER DWG. M0.1 NOTES 2, 4 10, 11, 12, 13, 14, 16, AND 18. WHERE BEING REMOVED, REMOVE CIRCUIT BACK TO PANEL AND LABEL "SPARE" WHERE CIRCUIT CAN BE REUSED FOR NEW EQUIPMENT. MAINTAIN AND MODIFY AS NEEDED. ALL CIRCUITS MUST HAVE GROUND WIRE IN CONDUIT AND ANY WIRING, FROM ORIGINAL CONSTRUCTION, SHALL BE REPLACED.
2. REMOVE ALL ELECTRICAL AND CIRCUITS TO SOURCE. EXISTING BOXES AND CONDUIT CAN BE REUSED WHERE APPROPRIATE AND COMPLIENT WITH CURRENT CODE.
3. KITCHEN AND KITCHEN POWER PANELS ARE NOT IN CONTRACT UNLESS OTHERWISE NOTED.
4. EXISTING PANEL LP2 TO REMAIN.
5. EXISTING EXIT SIGNS TO BE MAINTAINED OR REMOVED FOR REINSTALLATION.
6. REMOVE ALL UNUSED CONDUIT FROM EXTERIOR OF BUILDING AFTER COMMUNICATIONS REWORKED BY OWNER. GENERAL CONTRACTOR TO PATCH WALLS.

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NORTH

Project Number: 1236
Revisions:

Drawing:
Electrical Plan - Demolition

Date: 10/17/2016

Sheet Number:
E0.1

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LICENSE # C-1035
1813 CHAPEL HILL ROAD
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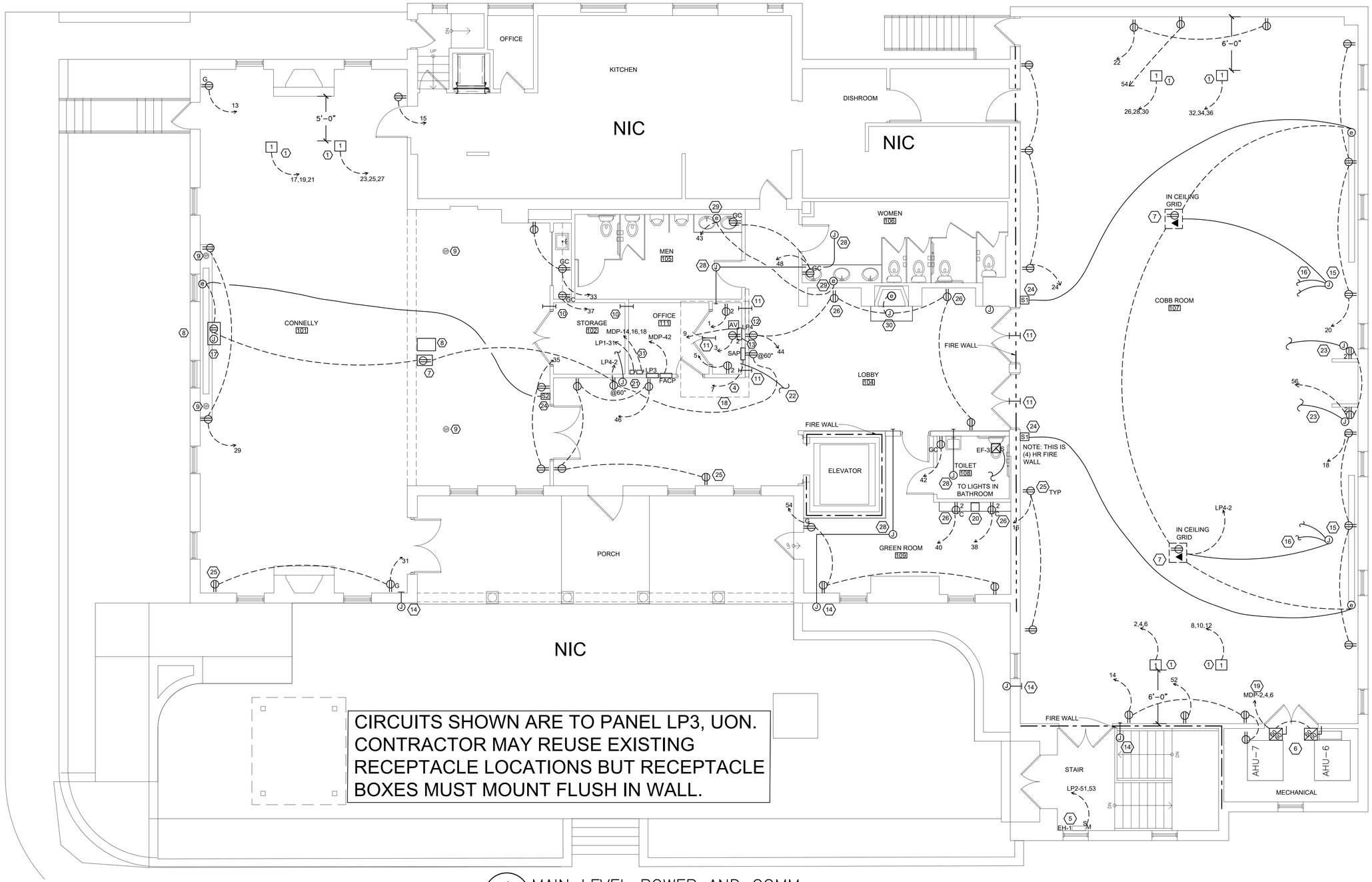

CIRCUITS SHOWN ARE TO PANEL LP3, UON. CONTRACTOR MAY REUSE EXISTING RECEPTACLE LOCATIONS BUT RECEPTACLE BOXES MUST MOUNT FLUSH IN WALL.

1 / E1.1 MAIN LEVEL POWER AND COMM.
3/16"=1'

KEYED NOTES

1. FLUSH TO FLOOR, FLOOR BOX WITH (2) DUPLEX AND (1) SIMPLEX, 30 AMP RECEPTACLE (VERIFY NEMA TYPE WITH OWNER'S SERVING EQUIPMENT). BOXES SHALL BE **FLUSH** IN FLOOR, COUNTERSINK COVERS.
2. PROVIDE RECEPTACLE, (2) CAT 6 DATA JACKS AND CABLE JACKS AT 72" AFF. PROVIDE DATA & COAX CABLES TO AV CLOSET.
3. INSTALL SECURITY PANEL FURNISHED BY OTHERS.
4. ALL DATA AND COAX CABLING TO AV ROOM, TERMINATIONS BY OTHERS. ALL AV EQUIPMENT BY OTHERS.
5. EXISTING WALL HEATER TO BE CIRCUITED TO PANEL LP-2, USE CONDUIT IN STAIRWELL IN CORNERS AND MC OVER CEILING IN HALLWAY.
6. MAINTAIN EXISTING SWITCH AND CIRCUIT. CONNECT TO NEW UNIT.
7. FOR PROJECTORS.
8. MOTORIZED SCREEN AND PROJECTOR PROVIDED BY OTHERS. PROVIDE POWER AT APPROXIMATELY 9' AFF, COORDINATE WITH EQUIPMENT.
9. SPEAKERS BY OTHERS. PROVIDE SINGLE GANG BOX AND CIRCUITS INTO CEILING.
10. PROVIDE 1-1/4"C STUBBED THRU WALLS (ABOVE CEILINGS). PROVIDE END BUSHINGS.
11. PROVIDE 2"C. STUBBED THRU WALLS TO ABOVE ACCESSIBLE CEILINGS. SEE RCP. PROVIDE END BUSHINGS.
12. PROVIDE (20) POLE LOAD CENTER, 60 AMP, 3 POLE WITH (13) 20 AMP 1 POLE, (4) 15AMP 1 POLE AND (1) 30 AMP 3 POLE BREAKERS.
13. PROVIDE NEC TYPE 2 (TVSS) SURGE ARRESTER. EATON - INNOVATIVE TECHNOLGY "PROTECTOR" # PTE-048-3Y101.
14. PROVIDE 4"X4" SHALLOW JUNCTION BOX AT ABOUT 10' AFG AND 3/4"C THRU EXISTING WALL. VERIFY THAT CONDUIT TO BE ABOVE INTERIOR CEILINGS OR OTHERWISE HIDDEN.
15. PROVIDE (3) GANG BOX ON WALL, UNDER SCREEN, AT 18" AFF. LOCATE AT LEAST 12" FROM WINDOWS.
16. PROVIDE (3) 1-1/4"C WITH PULL STRING, TO ABOVE CEILING.
17. PROVIDE 4 GANG FLOOR BOX. PROVIDE (3) 1-1/4"C. TO PROJECTOR AND (2) TO AV CLOSET VIA CRAWL SPACE.
18. CIRCUITS, IN AV CLOSET, TO PANEL LP4.
19. EXISTING 100 AMP FEEDER TO MDP.
20. PROVIDE (2) GANG BOX WITH (2) 3/4" C TO LOBBY CEILING FOR IT ROUGH-IN, FIELD LOCATE WITH OWNER.
21. BOX DETAILS PROVIDED BY OWNER, PROVIDE 1-1/4" C TO AV CLOSET.
22. (2) 2-1/2" C FROM BASEMENT, SEE E1.2.
23. PROVIDE (2) GANG BOX WITH (1) 1-1/4" C TO CEILING.
24. SEE SWITCH ASSEMBLY ON E1.3.
25. RECEPTACLE BOXES TO BE **SHALLOW** TYPE, NOT MORE THAN 1-1/4" DEEP. TYPICAL FOR ALL EXISTING WALLS.
26. COORDINATE LOCATIONS WITH ARCHITECT.
27. PROVIDE POWER TO FIREPLACE.
28. FOR CEILING SPEAKER, PROVIDE 3/4" CONDUIT.
29. INSTALL FLUSH VALVE POWER SUPPLIES (FURNISHED BY PC) UNDER SINKS.
30. PROVIDE POWER FOR GAS LOGS IF NEEDED. COORDINATE WITH SELECTED EQUIPMENT.
31. PROVIDE 60 AMP SWITCH, SEE E2.1 NOTE 15, AND 30 AMP, 2 POLE, FUSIBLE (20 AMP) FOR CAB LIGHT CIRCUIT.

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828-255-4691

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NORTH

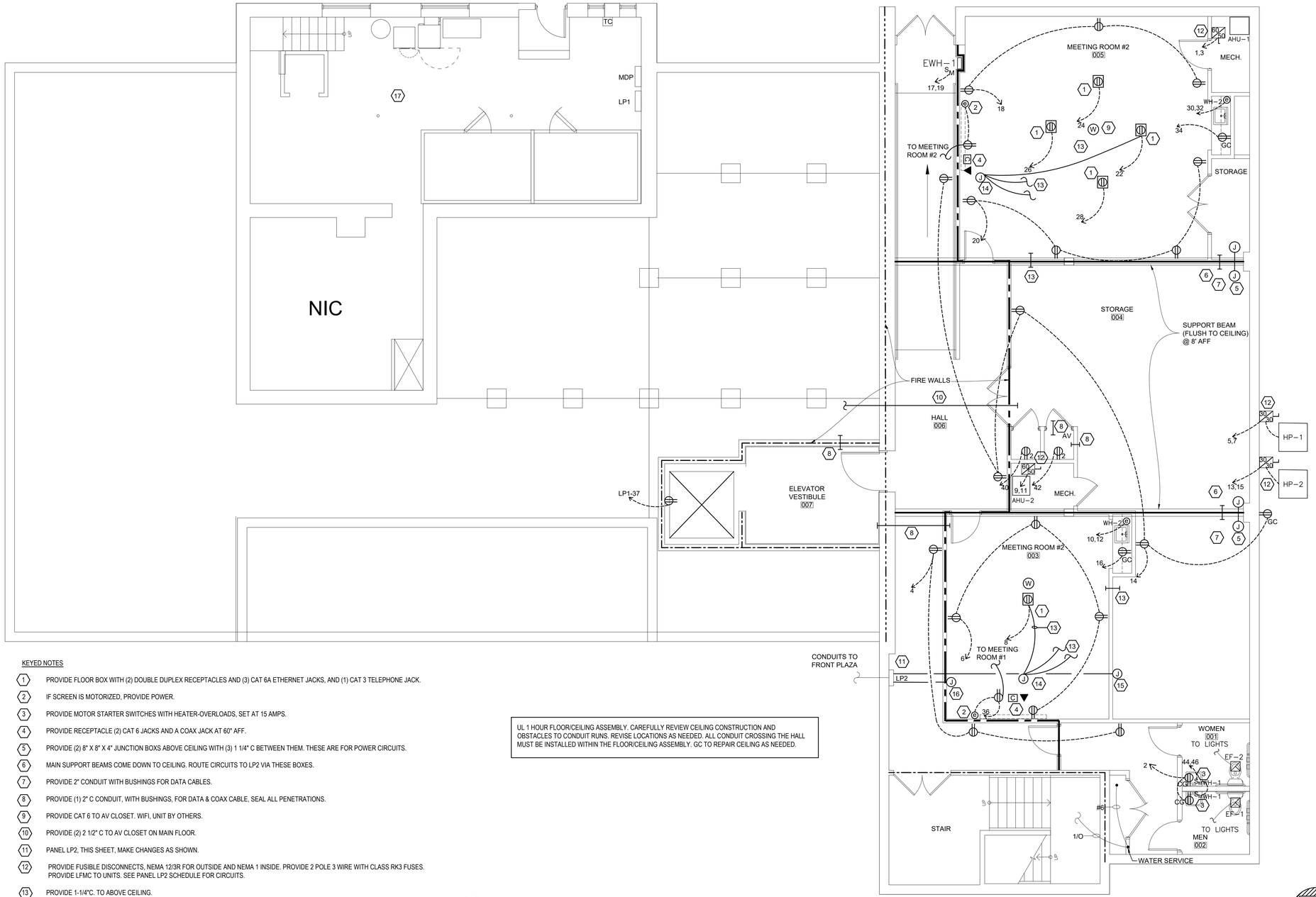
Project Number: 1236
Revisions:

NORTH CAROLINA PROFESSIONAL SEAL 30835 ENGINEER LAWRENCE SUD

Drawing:
Electrical Plan - Main Level - Power

Date: 10/17/2016

Sheet Number:
E1.1



KEYED NOTES

1. PROVIDE FLOOR BOX WITH (2) DOUBLE DUPLEX RECEPTACLES AND (3) CAT 6A ETHERNET JACKS, AND (1) CAT 3 TELEPHONE JACK.
2. IF SCREEN IS MOTORIZED, PROVIDE POWER.
3. PROVIDE MOTOR STARTER SWITCHES WITH HEATER-OVERLOADS, SET AT 15 AMPS.
4. PROVIDE RECEPTACLE (2) CAT 6 JACKS AND A COAX JACK AT 60" AFF.
5. PROVIDE (2) 8" X 8" X 4" JUNCTION BOXS ABOVE CEILING WITH (3) 1 1/4" C BETWEEN THEM. THESE ARE FOR POWER CIRCUITS.
6. MAIN SUPPORT BEAMS COME DOWN TO CEILING. ROUTE CIRCUITS TO LP2 VIA THESE BOXES.
7. PROVIDE 2" CONDUIT WITH BUSHINGS FOR DATA CABLES.
8. PROVIDE (1) 2" C CONDUIT, WITH BUSHINGS, FOR DATA & COAX CABLE, SEAL ALL PENETRATIONS.
9. PROVIDE CAT 6 TO AV CLOSET. WIFI, UNIT BY OTHERS.
10. PROVIDE (2) 2 1/2" C TO AV CLOSET ON MAIN FLOOR.
11. PANEL LP2, THIS SHEET, MAKE CHANGES AS SHOWN.
12. PROVIDE FUSIBLE DISCONNECTS, NEMA 12/3R FOR OUTSIDE AND NEMA 1 INSIDE. PROVIDE 2 POLE 3 WIRE WITH CLASS RK3 FUSES. PROVIDE LFMC TO UNITS. SEE PANEL LP2 SCHEDULE FOR CIRCUITS.
13. PROVIDE 1-1/4"C. TO ABOVE CEILING.
14. PROVIDE (3) GANG BOX AT 18" AFF FOR, COAX, DATA, AND HDMI.
15. PROVIDE 12"x12"x6" JUNCTION PULL BOX WITH (3) 1-1/4" CONDUIT. (THIS IS FOR ALL CIRCUITS FROM PANEL LP2) NOTE THAT USE OF # 10 WIRES ALLOWS UP TO 20 WIRES IN (1) CONDUIT ON 20 AMP CIRCUITS.
16. PROVIDE 4x4 FD BOX WITH 1-1/4" CONDUIT FOR CIRCUITS TO MEETING ROOM 2.
17. WIRE NEW ADDED RECIRCULATION PUMP FROM CIRCUIT THAT SERVES EXISTING RECIRCULATION PUMP.

UL 1 HOUR FLOOR/CEILING ASSEMBLY. CAREFULLY REVIEW CEILING CONSTRUCTION AND OBSTACLES TO CONDUIT RUNS. REVISE LOCATIONS AS NEEDED. ALL CONDUIT CROSSING THE HALL MUST BE INSTALLED WITHIN THE FLOOR/CEILING ASSEMBLY. GC TO REPAIR CEILING AS NEEDED.

1 / E1.2 LOWER LEVEL POWER AND COMM.
3/16" = 1'

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Project Number: 1236
Revisions:

Drawing:
Electrical Plan - Lower Level - Power

Date: 10/17/2016

Sheet Number:
E1.2

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LICENSE # C-1035

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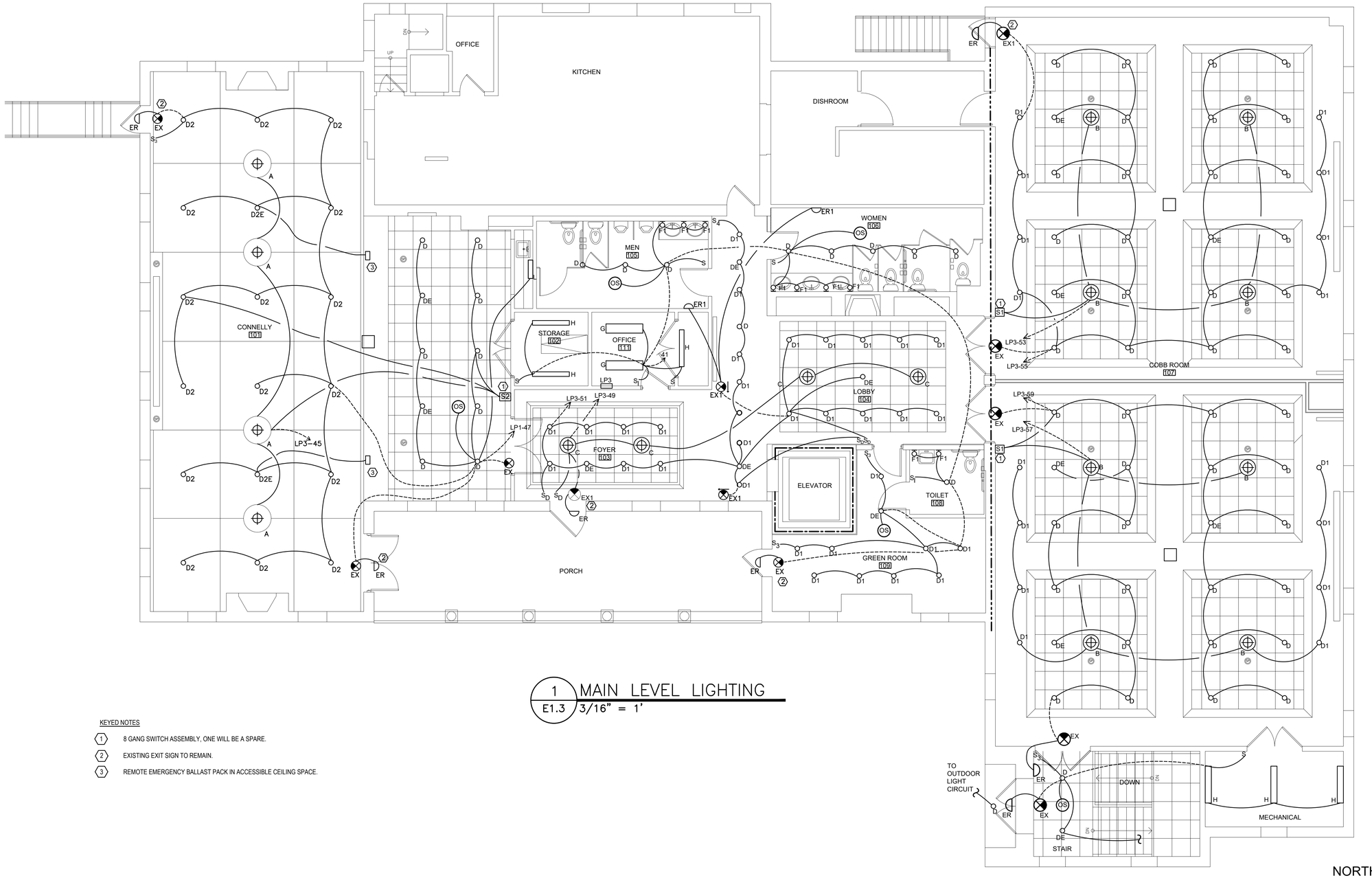

1 E1.3 MAIN LEVEL LIGHTING
3/16" = 1'

KEYED NOTES

1. 8 GANG SWITCH ASSEMBLY, ONE WILL BE A SPARE.
2. EXISTING EXIT SIGN TO REMAIN.
3. REMOTE EMERGENCY BALLAST PACK IN ACCESSIBLE CEILING SPACE.

CHAND. WEST	CHAND. EAST	DOWN WEST	DOWN EAST	WALL WEST	WALL EAST	SWITCH	SCREEN
DIMMER	DIMMER	DIMMER	DIMMER	DIMMER	DIMMER	SPARE	UP / DOWN

2 E1.3 S1 / SWITCH ASSEMBLY
NTS

CHAND.	DOWN	DOWN	SCREEN	DOWN (EAST)	
DIMMER	DIMMER	(SCREEN)	UP / DOWN	DIMMER	SPARE

3 E1.3 S2 / SWITCH ASSEMBLY
NTS

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Drawing:
Electrical Plan - Main Level Lighting

Date: 10/17/2016

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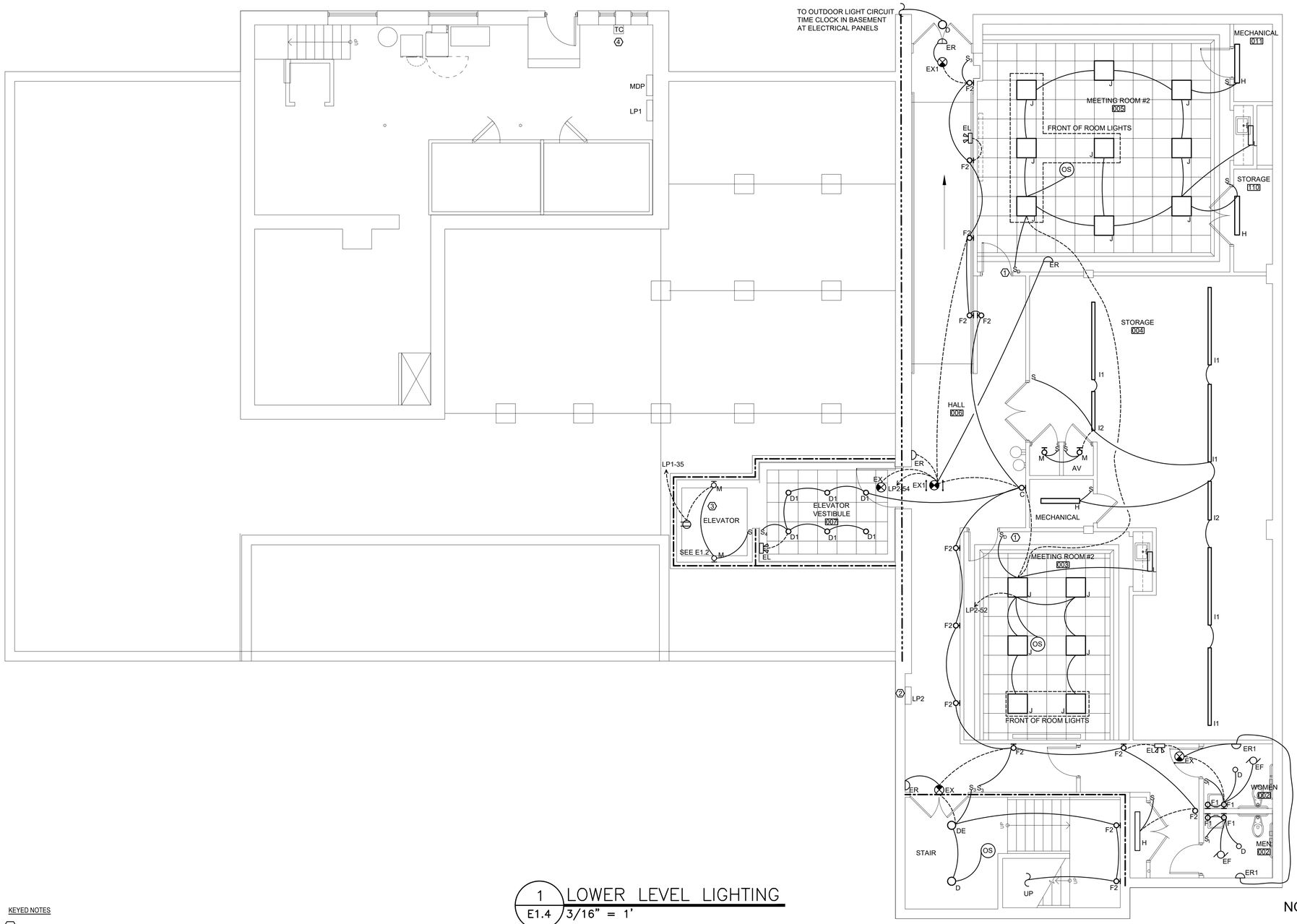

1 LOWER LEVEL LIGHTING
E1.4 3/16" = 1'

KEYED NOTES

1. PROVIDE DIMMER SWITCH, COMPATIBLE WITH ROOM FIXTURES, AND STANDARD SWITCH TO TURN OFF POWER TO FRONT OF ROOM LIGHTS (FRONT OF ROOM IS AT SCREEN).
2. SEE SHEET E1.2, NOTES 15 AND 16 FOR CONDUITS.
3. PROVIDE "M" FIXTURES @ 24" AFF. PROVIDE SWITCH BY ACCESS LADDER.
4. EXISTING TIME CLOCK FOR OUTDOOR LIGHTS.

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Project Number: 1236
Revisions:

Drawing:
Electrical Plan - Lower Level-Lighting

Date: 10/17/2016

Sheet Number:
E1.4

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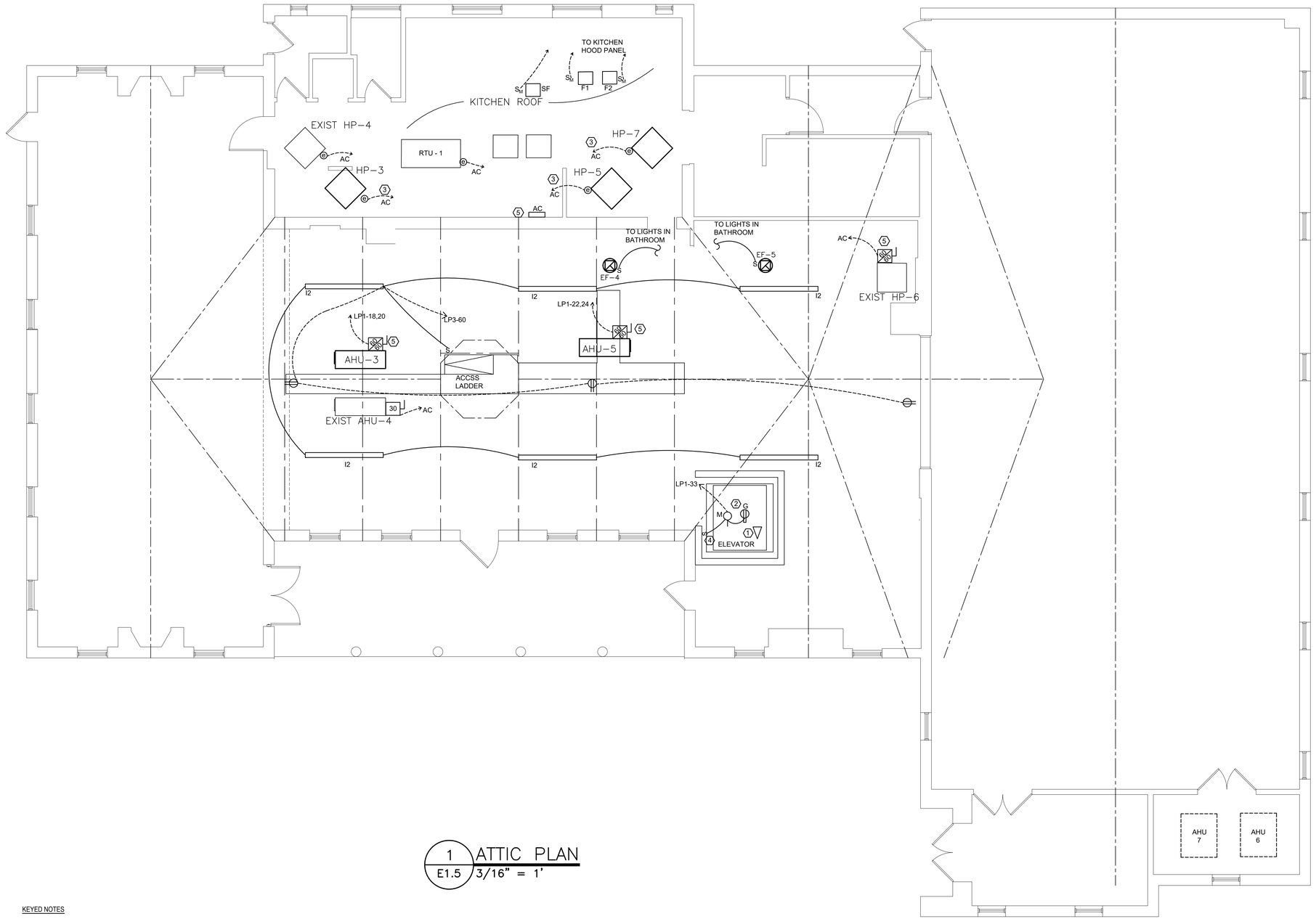

1 / E1.5 ATTIC PLAN
3/16" = 1'

KEYED NOTES

1. PROVIDE DEDICATED TELEPHONE LINE FROM SERVICE. LINE TO BE IN 1/2" EMT.
2. PROVIDE GLOBE LIGHT AND GFCI RECEPTACLE ON TOP OF CAR. SWITCH MAY BE LOCATED ON CAR, BY LIGHT.
3. PROVIDE NEW 2 POLE 60 AMP FUSED DISCONNECTS WITH 40 AMP FUSES.
4. COORDINATE SWITCH LOCATION WITH ELEVATOR SUPPLIER.
5. PROVIDE (2) 2 POLE 60 AMP BREAKERS FOR HP-5. PROVIDE 3 POLE 60 AMP FOR HP-7.

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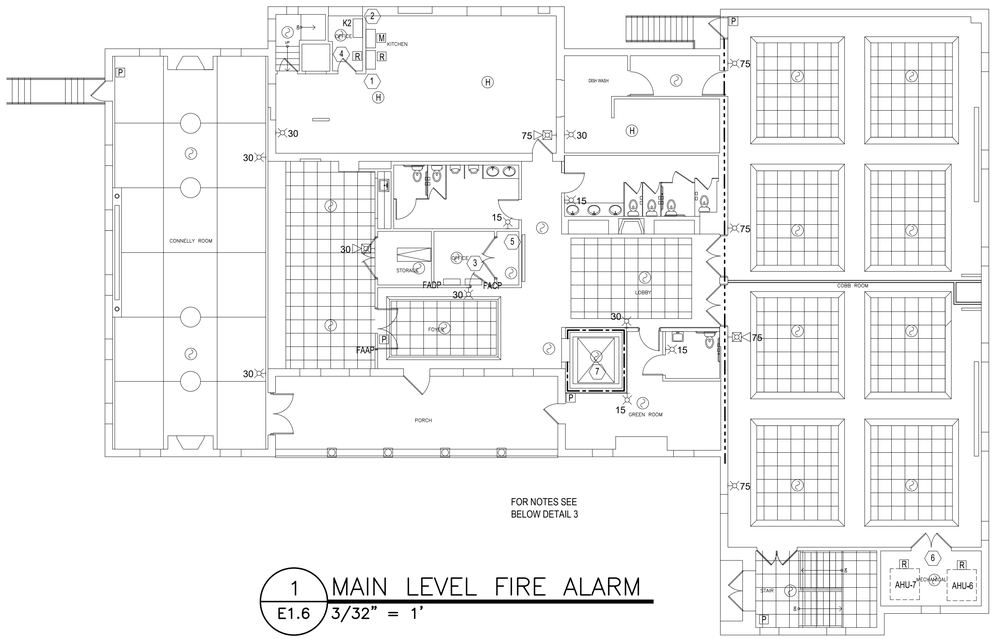
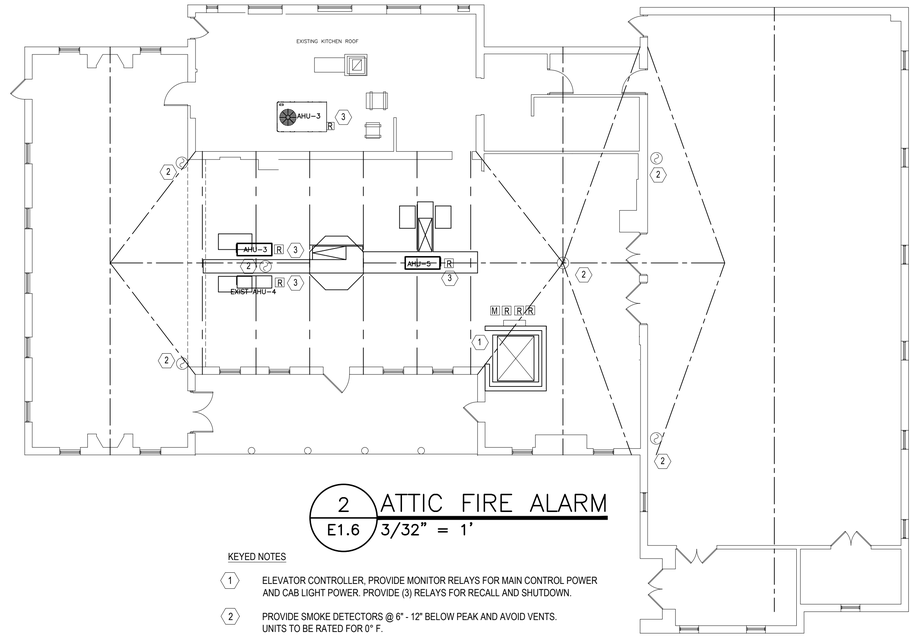
Sheet Number:
E1.5



FOR NOTES SEE BELOW DETAIL 3

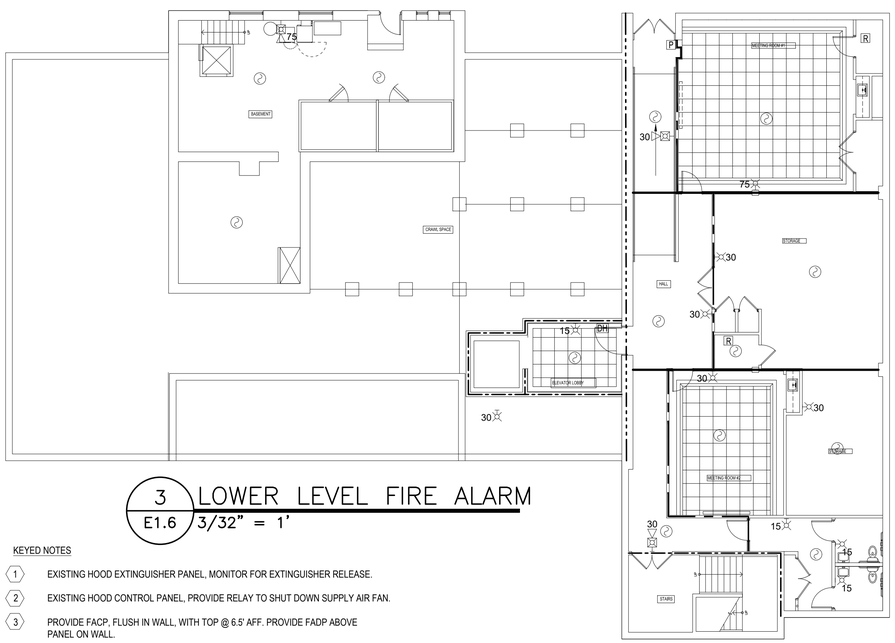
1 / E1.6 MAIN LEVEL FIRE ALARM
3/32" = 1'



2 / E1.6 ATTIC FIRE ALARM
3/32" = 1'

KEYED NOTES

1. ELEVATOR CONTROLLER, PROVIDE MONITOR RELAYS FOR MAIN CONTROL POWER AND CAB LIGHT POWER. PROVIDE (3) RELAYS FOR RECALL AND SHUTDOWN.
2. PROVIDE SMOKE DETECTORS @ 6" - 12" BELOW PEAK AND AVOID VENTS. UNITS TO BE RATED FOR 0° F.
3. RELAYS FOR AIR HANDLER SHUTDOWNS.



THERE ARE SIGNIFICANT OBSTRUCTIONS TO CONDUIT ROUTING IN BASEMENT

3 / E1.6 LOWER LEVEL FIRE ALARM
3/32" = 1'

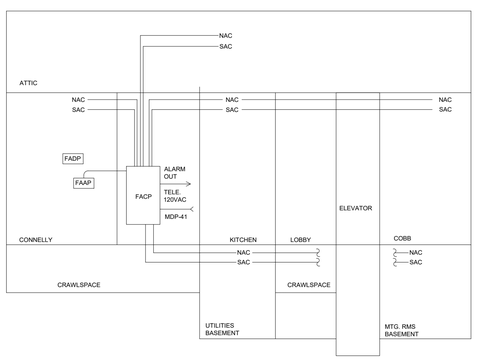
KEYED NOTES

1. EXISTING HOOD EXTINGUISHER PANEL, MONITOR FOR EXTINGUISHER RELEASE.
2. EXISTING HOOD CONTROL PANEL, PROVIDE RELAY TO SHUT DOWN SUPPLY AIR FAN.
3. PROVIDE FACP, FLUSH IN WALL, WITH TOP @ 6.5' AFF. PROVIDE FADP ABOVE PANEL ON WALL.
4. EXISTING PANEL SHUNT TRIP ON EXTINGUISHER RELEASE
5. TELEPHONE SERVICE FOR OUTGOING ALARM. PROVIDE DEDICATED LINE.
6. SHUTDOWN RELAYS FOR AIR HANDLERS.
7. SMOKE DETECTOR AT TOP OF SHAFT.

SYSTEM INPUTS

		CONTROL UNIT ANNUNCIATION																NOTIFICATION		FIRE SAFETY CONTROL			
		ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	ACTUATE ALARM INDICATOR	ACTUATE COMMON EVACUATION SIGNALS	DISPLAY CHANGE OF SIGNAL	ACTUATE FIREWATER VALVE	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	BYPASS SHUTDOWN DELAYS	SHUT DOWN AHUS	ACTUATE ANNUNCIATOR	RECALL ELEVATOR PRIMARY FLOOR	RECALL ELEVATOR SECONDARY FLOOR				
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T		
1	PULL STATIONS		●						●	●	●		●				●	●					1
2	SMOKE DETECTORS		●						●	●	●		●				●	●					2
3	EXTINGUISHER RELEASE					●	●							●									3
4	HEAT DETECTOR		●						●	●	●		●				●	●					4
5	AHU OVERRIDE SWITCH										●					●							5
6	FIRE ALARM A/C POWER FAILURE*			●	●									●									6
7	FIRE ALARM SYSTEM LOW BATTERY					●	●								●								7
8	NAC OPEN CIRCUIT			●	●									●									8
9	NAC GROUND FAULT			●	●									●									9
10	NAC SHORT CIRCUIT			●	●									●									10
11	LOBBY FIRST FLOOR SMOKE DETECTOR	●	●						●	●	●		●				●	●			●		11
12	LOBBY SECOND FLOOR SMOKE DETECTOR	●	●						●	●	●		●				●	●		●			12
13	TOP OF SHAFT SMOKE DETECTOR	●	●						●	●	●		●				●	●		●			13
	* TRANSIT TROUBLE SIGNAL AFTER 8 HOURS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T		

FIRE ALARM INPUT/OUT MATRIX



4 / E1.6 FIRE ALARM RISER
NTS

GENERAL FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	NEW EQUIPMENT
	EXISTING EQUIPMENT
S	PHOTOELECTRIC SMOKE DETECTOR, MOUNT 3' FROM AIR GRILLES ON CEILING AND LESS THAN 12" FROM CEILING
S	SMOKE DETECTOR SOUNDER BASE AT 84" - 90" AFF
15	FIRE ALARM HORN/STROBE. CANDELA RATING INDICATED, MOUNT AT 84" - 90" AFF, MINIMUM 6" FROM CEILING
30	FIRE ALARM STROBE OR INDICATOR, CANDELA RATING IS 15 UNLESS OTHERWISE INDICATED, MOUNT AT 84" - 90" AFF, MINIMUM 6" FROM CEILING
	COMBINATION RATE OF RISE/FIXED TEMPERATURE HEAT DETECTOR, 140°F MIN.
PIV	POST INDICATOR VALVE
FATB	FIRE ALARM TERMINAL BOX
FACP	FIRE ALARM CONTROL UNIT, ADDRESSABLE CLASS B FOR SLC CIRCUITS
FADP	FIRE ALARM DEVICE PLANS, FRAMED WITH CLEAR SHIELD.
M	ADDRESSABLE MONITOR MODULE, MOUNT WITHIN 36" OF DEVICE
J	JUNCTION BOX
P	PULL STATION, MOUNT AT 45" AFF
FS	FLOW SWITCH, PROVIDED BY SC
TS	TAMPER SWITCH, PROVIDED BY SC
PS	PRESSURE SWITCH, PROVIDED BY SC
B	SPRINKLER "GONG" ALARM, MOUNT AT 9' TO 10' AFG
R	ADDRESSABLE RELAY WITHIN 36" OF DEVICE
DH	DOOR HOLDER

NORTH

NORTH CAROLINA PROFESSIONAL SEAL 30835 ENGINEER DAVID A. SUD

SUD ASSOCIATES, P.A.
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1813 CHAPEL HILL ROAD
DURHAM, NORTH CAROLINA
919-493-5277

FLAT IRON BUILDING SUITE 706
20 BATTERY PARK AVENUE
ASHEVILLE, NORTH CAROLINA
828-255-4691

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PROJECT NO. 16203

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Morganton Community House

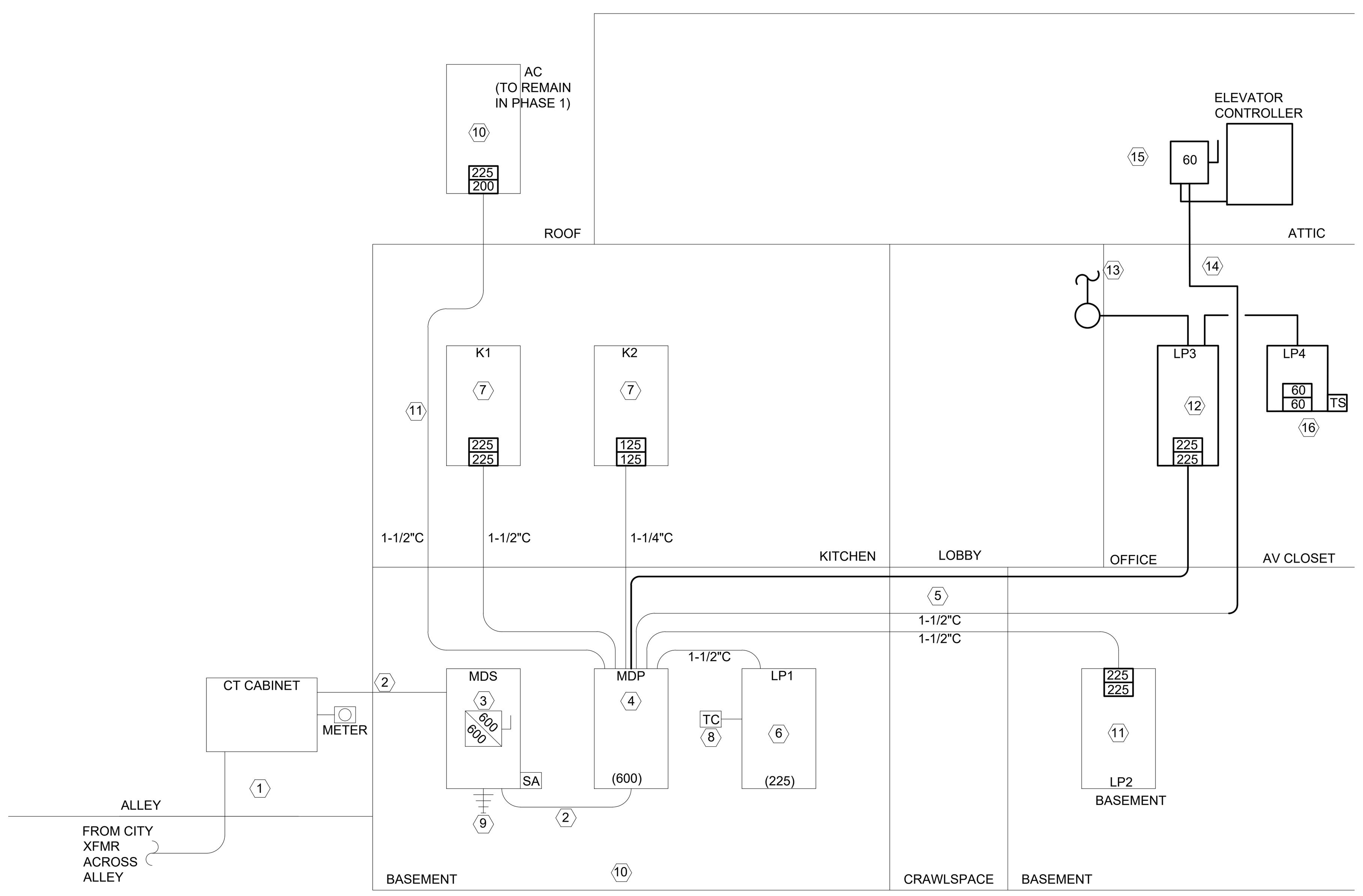
120 N. King Street
Morganton, NC

Project Number: 1236
Revisions:

Drawing:
Electrical Plan - Fire Alarm

Date: 10/17/2016

Sheet Number:
E1.6



1 POWER RISER
E2.1 NTS

KEYED NOTES:

1. CITY'S SERVICE & METERING.
2. 4"C., (7) 350 KCMIL, 1/OG .
3. 600A, 3 POLE, 240VAC, FUSIBLE DISCONNECT, HD & HP RATED, NEMA 1, WITH (6) 600A CLASS T FUSES, AND NEC TYPE 1 SURGE ARRESTER.
4. PANEL MDP, THIS SHEET; **MAKE CHANGES SHOWN.**
5. 1-1/2"C. INTO CRAWL SPACE ELEVATOR.
6. PANEL LP1 THIS SHEET; **MAKE CHANGES SHOWN.**
7. KITCHEN PANELS TO BE MAINTAINED, SEE E2.3.
8. TIME CLOCK FOR OUTDOOR LIGHTS.
9. 1/O GROUND TO DOMESTIC WATER SERVICE PIPE, BUILDING STEEL, AND #6 TO SE STAIRS STEEL AND GAS LINE. **ADD 1/O TO ELEVATOR HOIST WAY STEEL STRUCTURE.**
10. PANEL AC TO BE MAINTAINED, SEE E2.3.
11. PANEL LP2, SEE E2.2, **MAKE CHANGES SHOWN.**
12. **PROVIDE PANEL LP3, SEE PLAN NO E1.1, PER SCHEDULE ON E2.2 AND PROVIDE 1-1/4"C. WITH FEEDER PER MDP THIS SHEET.**
13. **PROVIDE 12" X 12" X 6" JUNCTION BOX IN CEILING OVER PANEL LP (BEING DEMOED) TO SPLICE ANY EXISTING CIRCUITS TO BE REUSED IN COBB ROOM.**
14. **PROVIDE 1-1/4"C WITH FEEDER TO ELEVATOR IN ATTIC PER MDP SCHEDULE.**
15. **PROVIDE 60 AMP, 3 POLE DISCONNECT, HD & HP RATED.**
16. **PROVIDE PANEL LP4 PER SCHEDULE ON E2.2. PROVIDE NEC TYPE 2 SURGE ARRESTER (TVSS) SEE E1.1, NOTE 13.**

SCOPE OF WORK

1. PROVIDE TEMPORARY CONSTRUCTION PHASE POWER AND LIGHTING FOR ALL TRADES AS NEEDED.
2. PROVIDE SUBMITTALS ON ALL LIGHTING, POWER, CONTROLS AND LIGHTING EQUIPMENT.
3. PROVIDE ALL ELECTRICAL SHOWN ON DRAWINGS AND SPECIFICATIONS AND AS NEEDED TO PROVIDE A COMPLETE FUNCTIONAL INSTALLATION IN COMPLIANCE WITH STATE AND LOCAL CODES. OWNER TO PROVIDE DATA CABLES, DEVICES, AND COVER PLATES AS WELL AS RACKS WITH ALL EQUIPMENT IN RACKS.
4. PROVIDE FIELD COORDINATION WITH OTHER TRADES AND PROVIDE RED-LINE MARKED UP DRAWINGS TO OWNER OF ALL FIELD CHANGES.
5. TEST FOR FUNCTIONALLY OF ALL EQUIPMENT. ASSIST OTHER TRADES AS NEEDED.
6. TEST AND CERTIFY EXIT AND EGRESS LIGHTING.
7. TEST AND CERTIFY FIRE ALARM SYSTEM OPERATION.
8. PROVIDE ALL REQUIRED ELECTRICALLY RELATED PERMITS AND INSPECTIONS.
9. PROVIDE ONE YEAR WARRANTY ON ALL PARTS AND LABOR FROM DATE OF PROJECT ACCEPTANCE.

GENERAL FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
	NEW EQUIPMENT
	EXISTING EQUIPMENT
P	FIRE ALARM PULL STATION, MOUNT AT 45" AFF
S	PHOTOELECTRIC SMOKE DETECTOR, MOUNT 3' FROM AIR GRILLES
S	RETURN AIR DUCT PHOTOELECTRIC SMOKE DETECTOR, FURNISHED AND WIRED BY EC, INSTALLED BY MC
	COMBINATION RATE OF RISER/FIXED TEMPERATURE HEAT DETECTOR
15	FIRE ALARM HORN/STROBE. WATTAGE AND CANDELA RATING INDICATED MOUNT AT 90" - 96" AFF
30	FIRE ALARM STROBE OR INDICATOR, CANDELA RATING IS 15 UNLESS OTHERWISE INDICATED, MOUNT AT 90" - 96" AFF
R	REMOTE ALARM INDICATOR FOR DUCT SMOKE DETECTOR, MOUNT AT 54" AFF
FACU	FIRE ALARM CONTROL UNIT, ADDRESSABLE CLASS A FOR SLC CIRCUITS
FAAP	REMOTE FIRE ALARM ANNUNCIATOR PANEL
SAP	SECURITY - ALARM PANEL
	HVAC SHUTDOWN BY-PASS/OVERRIDE KEY SWITCH
	BEAM TRANSMITTER, MOUNT WITHIN 12" OF CEILING
	BEAM RECEIVER, MOUNT WITHIN 12" OF CEILING
BM	BEAM DETECTOR MONITORING STATION, MOUNT 54" BELOW BEAM TRANSMITTER
DH	ELECTRIC DOOR HOLDER
J	JUNCTION BOX
KB	KNOX BOX
M	ADDRESSABLE MONITOR MODULE
P	PULL BOX
C	FIRE ALARM SYSTEM ADDRESSABLE CONTROL RELAY, MOUNT WITHIN 18" OF DEVICE BEING CONTROLLED
FS	FLOW SWITCH
TS	TAMPER SWITCH
PS	PRESSURE SWITCH
F/S	120VAC FIRE/SMOKE DAMPER
	SPRINKLER "GONG" ALARM
PIV	POST INDICATOR VALVE (SHUTOFF)

GENERAL ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	NEW EQUIPMENT
	EXISTING EQUIPMENT
	TYPICAL LIGHT FIXTURES LETTER INDICATES TYPE
	TYPICAL EXIT SIGN - NUMBER OF FACES AND DIRECTIONAL ARROWS INDICATED, LETTER INDICATES TYPE
	EMERGENCY LIGHTING UNIT
OS	OCCUPANCY SENSOR, DUAL UV/IR
	TELEPHONE OUTLET WITH RJ-11C JACK
	COMBINATION DATA/TELEPHONE OUTLET WITH RJ-45 AND RJ-11C JACK
	DATA OUTLET WITH 2 RJ-45 JACKS
100 60/3P	DISCONNECT SWITCH - AMP RATING/NO. OR POLES/FUSE SIZE INDICATED
60 3R	NON-FUSIBLE DISCONNECT SWITCH, 60 AMP RATED, HP RATED FOR MOTORS NEMA ENCLOSURE RATING(3R) AS SHOWN. 3R: RAIN TIGHT.
E	ELECTRICAL POWER SUPPLY CONNECTION TO EQUIPMENT - EQUIPMENT TAG OR DESIGNATION INDICATED. COORDINATE LOCATION AND CONNECTION DETAILS WITH EQUIPMENT PROVIDER.
	SPECIAL PURPOSE RECEPTACLE, MATCH RECEPTACLE TO EQUIPMENT PLUG. MAY ALSO BE HARDWIRED JUNCTION BOX OR TOGGLE DISCONNECT SWITCH, COORDINATE WITH EQUIPMENT.
	SIMPLEX RECEPTACLE, NEMA CONFIGURATION 5-20R
	DUPLEX RECEPTACLE, NEMA CONFIGURATION 5-20R
2	TWO DUPLEX RECEPTACLES IN DOUBLE GANG BOX, NEMA CONFIGURATION 5-20R
G	GFCI DUPLEX RECEPTACLE
C	ABOVE COUNTER DUPLEX RECEPTACLE, MOUNT CENTER AT 44" AFF
W	WEATHER TIGHT DUPLEX RECEPTACLE
S	DUPLEX RECEPTACLE ON GENERATOR STANDBY
	FLOOR OR TABLE MOUNTED DUPLEX RECEPTACLE
S	20A, 120/277VAC SINGLE POLE SNAP SWITCH
S_2	20A, 120/277VAC DOUBLE POLE SNAP SWITCH
S_3	20A, 120/277VAC THREE WAY SNAP SWITCH
S_M	MOTOR STARTER TOGGLE SWITCH, #POLE TO MATCH # CIRCUITS
S_{MW}	NEMA 4 WET RATED MOTOR STARTER TOGGLE SWITCH
S_S	SPEED SWITCH, WALL MOUNTED
S	ULTRASONIC CEILING SENSOR
S_I	LIGHT SWITCH/OCCUPANCY SENSOR, INFARED
S_D	LIGHT SWITCH WITH DAMPER
O	METER
PE	PHOTO CELL
J	JUNCTION BOX
LC	LIGHTING CONTACTOR
SA	SURGE ARRESTER, TYPE I
TS	TRANSIENT SUPPRESSOR, TYPE II
	PUSH BUTTON STATION
	SWITCHED CIRCUIT
	UNSWITCHED CIRCUIT
	HOMERUN CIRCUIT TO PANEL - CIRCUIT INDICATED

STANDARD MOUNTING HEIGHTS FOR DEVICES
(ALL DIMENSIONS ARE TO CENTERLINE OF DEVICE AFF OR AFG)

POWER	
RECEPTACLES - GENERAL	1'-6"
RECEPTACLES - COUNTER*	3' TO 3'-9" OR 4" ABOVE BACK SPLASH
RECEPTACLES - REFRIGERATOR	3' TO 3'-9"
RECEPTACLES - TV OR MONITOR ON WALL	6' TO 8'
RECEPTACLES - TV OR MONITOR ON WALL	6' TO 8'
PANEL BOARDS 100 - 400 AMP	6'-6" TO 7'
DISTRIBUTION PANELS 400 - 1,200 AMP	7'-8"
HIGHEST BREAKER HANDLE	6' TO 6'-5"
AUDIO/VISUAL	
TELEPHONE/DATA - GENERAL	1'-6"
TELEPHONE/DATA - COUNTER*	3' TO 3'-9" OR 4" ABOVE BACK SPLASH
TELEPHONE/DATA - ON WALL	48" TO 54"
COAX/DATA - GENERAL	1'-6"
COAX/DATA - ON WALL FOR AV	6' TO 8'
LIGHTING	
EXIT SIGNS	8' TO 10', DO NOT EXCEED 14'
EMERGENCY LIGHTS	8' TO 10'
LIGHTS - GENERAL	7'-8" MINIMUM
LIGHTS - HALLWAY WALLS	6'-8" MINIMUM
LIGHT SWITCHES/DIMMERS	45"
LIGHT SWITCHES/DIMMERS, 2 ROWS	TOP 54" MAXIMUM
PHOTOCELLS	8' TO 10'
SECURITY/MOTION LIGHTS	9' TO 12'
OUTDOOR WALL MOUNTED LIGHTS	8' TO 12'
MISCELLANEOUS	
MOTION DETECTORS	8' TO 10'
TIME CLOCKS/CONTROL PANELS	6'
CONTROL STATIONS	45"

* COORDINATE WITH ARCHITECTURAL DETAILS

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	G	GROUND
AFG	ABOVE FINISHED GRADE	GDS	GENERATOR DISCONNECT SWITCH
AHU	AIR HANDING UNIT	MC	MECHANICAL CONTRACTOR
AL	ALUMINUM	MCA	MINIMUM CIRCUIT AMPACITY
ATC	ASTRONOMICAL TIME CLOCK	MCB	MAIN CIRCUIT BREAKER
ATS	AUTOMATIC TRANSFER SWITCH	MCS	MOLDED CASE SWITCH
BFG	BELOW FINISHED GRADE	N	NEUTRAL
C	CONDUIT (AND DEVICE COUNTER HEIGHT)	NIC	NOT IN CONTRACT
CU	COPPER	PC	PHOTOCELL
DCP	DUMBWAITER CONTROL PANEL	PNL	PANELBOARD
EF	EXHAUST FAN	SC	SPRINKLER CONTRACTOR
EX	EXIT SIGN	UNO	UNLESS OTHERWISE NOTED
EXK	EXISTING TYPE K	W	WET LOCATION RATED
		WIR	WIRE (SIZE/RATING)

GENERAL NOTES

1. THIS DRAWING IS DIAGRAMMATIC AND INDICATES THE APPROXIMATE LOCATION OF DEVICES AND EQUIPMENT. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS ON SITE. MINOR ADJUSTMENTS AND OFFSETS SHALL BE PROVIDED WHERE REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
2. PROVIDE ALL WORK IN COMPLIANCE WITH ALL STATE AND LOCAL CODES AND IN AN INDUSTRY STANDARD WORKMANLIKE MANNER.
3. NMC (ROMEX AND SE CABLE FOR FEEDERS) IS NOT ACCEPTABLE. AC/MC CABLE IS ACCEPTABLE IN CONCEALED AND UTILITY LOCATIONS. EMT CONDUITS SHALL BE USED IN EXPOSED LOCATIONS. DATA/AV CABLES DO NOT REQUIRE CONDUIT IN CONCEALED LOCATIONS, PROPERLY BUNDLE/SUPPORT.
4. RACEWAYS SHALL NOT BE RUN ON THE EXTERIOR OF BUILDING OR IN INTERIOR EXPOSED AREAS OF MAIN FLOOR.
5. DATA AND TELEPHONE WORK SHALL INCLUDE DEVICE BOXES WITH CONDUIT, DEVICES, COVER PLATES AND CABLES TO EXISTING DATA/COMM ROOM. ALL CABLES TO BE ROUTED TO DATA/ COMM ROOM.
6. ALL WALLS AND PENETRATIONS SHALL BE REPAIRED AND SEALED, SEE ARCHITECTURAL FOR WALL CONSTRUCTION.
7. ALL WIRE SIZES SHOWN ARE FOR COPPER. ALUMINUM ALLOY WIRE MAY BE USED ON 100 AMP AND LARGER CIRCUITS ONLY. USE ANTIOXIDATION-CONNECTION GREASE ON LUGS AND TERMINATIONS.
8. PROVIDE (3) SPARE FUSES OF EACH TYPE USED, STORE IN POWER ROOM.
9. RECEPTACLE & SWITCH PLATES AND DEVICES SHALL BE WHITE COLOR UNLESS OTHERWISE NOTED.
10. PROVIDE ALL POWER CONNECTIONS AND TERMINATIONS TO MECHANICAL EQUIPMENT INCLUDING INSIDE THE EQUIPMENT.

PANEL MDP

KVA LOAD A	KVA LOAD B	KVA LOAD C	DESIGNATION TYPED ON DIRECTORY	GND	NEU	WIR SIZE	BKR	POLES	CKT NO	CKT NO	POLES	BKR	WIR SIZE	NEU	GND.	DESIGNATION TYPED ON DIRECTORY	KVA LOAD A	KVA LOAD B	KVA LOAD C
11.7			-	-	-	-	-	-	1	2	-	-	-	-	-	-	12.0		
	11.2		PANEL AC	6	4	1/O	150	3	3	4	**3**	**100**	**4**	**10**	**8**	**AHU-6 AND 7**		12.0	
		10.4	(ATTIC-ROOF)	-	-	-	-	-	5	6	-	-	-	-	-	**(COBB ROOM)**			12.0
16.8			-	-	-	-	-	-	7	8	-	-	-	-	-	-	5.1		
	16.9		PANEL K1	6	1/O	1/O	150	3	9	10	3	150	1/O	1/O	6	PANEL LP2		5.1	
		17.2	(KITCHEN)	-	-	-	-	-	11	12	-	-	-	-	-	(SOUTH BASEMENT)			2.5
12.8			**-**	**-**	**-**	**-**	**-**	-	13	14	-	-	-	-	-	-	**5.0**		
	13.4		**PANEL LP1**	**4**	**2**	**2**	**125**	**3**	15	16	**3**	**60**	**6**	**-**	**8**	**ELEVATOR - 7 HP**		**5.0**	
		12.5	**(BASEMENT)**	**-**	**-**	**-**	**-**	-	17	18	-	-	-	-	-				**5.0**
12.3			**-**	**-**	**-**	**-**	**-**	-	19	20	-	-	-	-	-	-	6.0		
	12.7		**PANEL K2**	**6**	**2**	**2**	**125**	**3**	21	22	3	70	6	12	10	RTU-1		6.0	
		11.7	**(KITCHEN)**	**-**	**-**	**-**	**-**	-	23	24	-	-	-	-	-	(ROOF)			6.0
11.5			**-**	**-**	**-**	**-**	**-**	-	25	26	2	40	8	10	10	WALK IN COOLER	2.5		
	11.4		**PANEL LP3**	**4**	**1/O**	**1/O**	**150**	**3**	27	28	-	-	-	-	-	(BASEMENT)		2.5	
		13.1	**-**	**-**	**-**	**-**	**-**	-	29	30	2	60	6	10	10	WALK IN FREEZER			4.0
6.0			-	-	-	-	-	-	31	32	-	-	-	-	-	(BASEMENT)	4.0		
	6.0		DISHWASHER	10	6	6	70	3	33	34	-	-	-	-	-	-		-	
		6.0	-	-	-	-	-	-	35	36	3	40	-	-	-	SPARE			-
7.5			-	-	-	-	-	-	37	38	-	-	-	-	-	-	-		
	7.5		DW BOOSTER HEATER	8	4	4	90	3	39	40	1	20	-	-	-	SPARE		-	
		7.5	-	-	-	-	-	-	41	42	**1**	**20**	**12**	**12**	**12**	**FACP**			**0.8**
78.6	79.1	78.4	TOTAL LEFT													TOTAL RIGHT	34.6	30.6	30.3

S/N — TOP FED LUGS — A B C N G

ENCLOSURE: NEMA 1 SURFACE MOUNT
VOLTAGE: 208Y/120V, 3-PH, 4-W
BUSES : PHASE/NEUTRAL: 600/600A - AL
CU GROUND BUS
MAIN: 600A MAIN LUGS
FEEDER: SEE "POWER RISER DIAGRAM"
INTERRUPTING RATING: 22 KAIC
DOOR IN DOOR HINGED COVER

PROVIDE LOCK ON HANDLE

ARC FLASH LABEL

LOAD	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING	6.4	1.00	6.4
HVAC (HEAT PUMP)	76.8	0.50	38.4
HVAC (COOLING)	0.0	1.00	0.0
HVAC (HEATING)	26.6	0.50	13.3
LARGE MOTORS (NON HVAC)	0.0	1.25	0.0
VENTILATION	22.0	1.00	22.0
KITCHEN	138.5	1.00	138.5
RECEPTACLES	17.5	10+0.5 Remain	13.8
COMPUTER-DATA	0.0	1.00	0.0
MISCELLANEOUS	0.0	0.50	0.0
TOTAL	287.8	N/A	232.4

A= 113.2 B= 109.7 C= 108.7 ΣΦ= 331.6 FLA= 920.5

PANEL MDP
LOCATION : NORTH BASEMENT

PANEL LP1

KVA LOAD A	KVA LOAD B	KVA LOAD C	DESIGNATION TYPED ON DIRECTORY	GND	NEU	WIR SIZE	BKR	POLES	CKT NO	CKT NO	POLES	BKR	WIR SIZE	NEU	GND.	DESIGNATION TYPED ON DIRECTORY	KVA LOAD A	KVA LOAD B	KVA LOAD C
1.0			RCPT - WASH & DRY	12	12	12	20	1	1	2	1	20	-	-	-	SPARE	-		
	0.8		RCPT - BASEMENT	12	12	12	20	1	3	4	1	15	12	12	12	HW HEATER/RECIRC. PUMP		0.8	
		0.8	RCPT - BREAK ROOM	12	12	12	20	1	5	6	1	20	12	12	12	OUTDOOR LIGHTS & TC			0.8
0.8			RCPT - BREAK ROOM	12	12	12	20	1	7	8	1	15	12	12	12	KITCHEN SHUNT TRIP	-		
	0.8		RCPT - BREAK ROOM	12	12	12	20	1	9	10	1	20	-	-	-	SPARE		-	
		0.8	RCPT - BREAK ROOM	12	12	12	20	1	11	12	-	-	-	-	-	-			2.5
0.5			BASEMENT GAS FURN.	12	12	12	15	1	13	14	3	20	10	12	12	DUMBWAITER	2.5		
	0.5		BASEMENT GAS FURN.	12	12	12	15	1	15	16	-	-	-	-	-	-		2.5	
		-	SPARE	-	-	-	20	1	17	**18**	**2**	**70**	**6**	**10**	**10**	**AHU-3**			**4.8**
-			SPARE	-	-	-	20	1	19	**20**	**-**	**-**	**-**	**-**	**-**	**-**	**4.8**		
	-		SPARE	-	-	-	20	1	21	**22**	**2**	**70**	**6**	**10**	**10**	**AHU-5**		**4.8**	
		-	SPARE	-	-	-	20	1	23	**24**	**-**	**-**	**-**	**-**	**-**	**-**			**4.8**
-			SPARE	-	-	-	20	1	25	26	1	20	-	-	-	SPARE	-		
	-		SPARE	-	-	-	20	1	27	28	1	20	-	-	-	SPARE		-	
		-	SPARE	-	-	-	20	1	29	30	1	20	-	-	-	SPARE			-
0.5			**ELEVATOR CAB LIGHT**	**12**	**12**	**12**	**20**	**1**	**31**	32	-	-	-	-	-	-	-		
	0.4		**ELEV. TOP CAB RCPT.**	**12**	**12**	**12**	**20**	**1**	**33**	34	3	60	-	-	-	SPARE		-	
		0.4	**ELEV. PIT RCPT.**	**12**	**12**	**12**	**20**	**1**	**35**	36	-	-	-	-	-	-			-
0.8			**SUMP PUMP**	**12**	**12**	**12**	**20**	**1**	**37**	38	-	-	-	-	-	-	-		
	-		SPARE	-	-	-	20	1	39	40	3	100	-	-	-	SPARE		-	
		-	SPARE	-	-	-	20	1	41	42	-	-	-	-	-	-			-
3.6	2.5	2.0	TOTAL LEFT													TOTAL RIGHT	7.3	8.1	12.9

S/N — TOP FED BREAKER — A B C N G

ENCLOSURE: NEMA 1 SURFACE MOUNT
VOLTAGE: 208Y/120V, 3-PH, 4-W
BUSES : (PHASE/NEUTRAL) : 225/225A - AL
CU GROUND BUS
MAIN: 225A MLO
FEEDER: SEE "POWER RISER DIAGRAM"
INTERRUPTING RATING: 10 KAIC
DOOR-IN-DOOR HINGED COVER

EXISTING PANEL

LOAD	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING	0.8	1.00	0.8
HVAC (HEAT PUMP)	0.0	1.00	0.0
HVAC (COOLING)	0.0	1.00	0.0
HVAC (HEATING)	1.0	0.40	0.4
LARGE MOTORS (NON HVAC)	0.0	1.25	0.0
VENTILATION	0.0	1.00	0.0
KITCHEN	0.0	1.00	0.0
RECEPTACLES	5.0	10+0.5 Remain	5.0
COMPUTER-DATA	0.0	1.00	0.0
MISCELLANEOUS	0.0	0.50	0.0
TOTAL	6.8	N/A	6.2

A= 10.9 B= 10.6 C= 14.9 ΣΦ= 36.4 FLA= 17.2

PANEL LP1
LOCATION: KITCHEN BASEMENT

SUD ASSOCIATES, P.A.
CONSULTING ENGINEERS
LICENSE # C-1035
1813 CHAPEL HILL ROAD
DURHAM, NORTH CAROLINA
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FLAT IRON BUILDING SUITE 706
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PROJECT NO. 16203

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Morganton Community House

120 N. King Street
Morganton, NC

Project Number: 1236
Revisions:

Drawing:
Electrical - Power Riser, Legend & Notes
Date: 10/17/2016

Sheet Number:
E2.1

LIGHTING FIXTURE SCHEDULE - MORGANTON COMMUNITY HOUSE PHASE 2

TYPE	DESCRIPTION	OEM & MODEL # : BASIS OF DESIGN *	MOUNTING	VOLT	LAMPS	BALLAST /FIXT.	WATT/FIXT.	NOTES
A	30-36" DIAMETER CHANDELIER	SPECIFIED BY OWNER - PART OF ALLOWANCE	CEILING PENDANT TO 10' AFF	120	-	-	-	-
B	22-26" DIAMETER CHANDELIER	SPECIFIED BY OWNER - PART OF ALLOWANCE	CEILING PENDANT TO 8' AFF	120	-	-	-	-
C	16-20" DIAMETER CHANDELIER	SPECIFIED BY OWNER - PART OF ALLOWANCE	CEILING PENDANT TO 8' AFF	120	-	-	-	-
D/DE	6" LED CAN LIGHT, 120 VAC, 3000 LUMENS, 3500K, CRI>80, 60° BEAM DIST., FROSTED GLASS LENS, DIMMING, MATT WHITE, MOUNTING BARS, E: EMERGENCY BATTERY PACK	SPECTRUM INFUSION #SGE6LEDOS-30L-35K-XW-DO101-XX-AR6223OS-MW-FG E: +EM	CEILING RECESSED	120	36W LED	1	40 / 60	4
D1	6" LED CAN LIGHT, DIRECTIONAL, 120 VAC, 2000 LUMENS, 3000K, CRI>80, WALL WASH, FROSTED GLASS LENS, DIMMING, MATT WHITE, MOUNTING BARS	SPECTRUM INFUSION #RWFO6LEDXT-20L-30K-XD-DO101-XX-RW6F-MW-SKK	CEILING RECESSED	120	36W LED	1	30	-
D2	4" LED CAN LIGHT, DIRECTIONAL, IC RATED, 120 VAC, 2000 LUMENS, 2700K, CRI>80, FROSTED GLASS LENS, DIMMING, MATT WHITE, MOUNTING BARS, DIMMING	SPECTRUM INFUSION #RAFI4LEDXT-20L-27K-WD-DO101-XX-RA4FXT-MW-FGX	CEILING RECESSED	120	36W LED	1	40	-
EL	EMERGENCY LIGHT, (2) 4 WATT, 6 VDC LED HEADS, 10 WATTS REMOTE CAPACITY.	EMERGI-LITE PRO-3N	WALL AT 8'-9' AFF	120	(2) 4 Watt LED	1	30	5
ER	DUAL REMOTE HEADS , 4 WATT, 6 VDC LED, GREY, NEMA 4X	EMERGI-LITE Survive All #EF39PD-LA-GY-SM	WALL AT 8'-9' AFF	6 VDC	(2) 4 Watt LED	-	8	3,5
ER1	SINGLE REMOTE HEAD , 4 WATT, 6 VDC LED, GREY, NEMA 4X	EMERGI-LITE Survive All #EF39P-LA-GY-SM	WALL AT 8'-9' AFF	6 VDC	(1) 4 Watt LED	-	4	5
EX	RED LED EXIT SIGN, DIE CAST ALUMINUM FRAME AND FACE, SELF-POWERED, UNIVERSAL MOUNT WITH 12 WATT REMOTE CAPACITY.	LIGHT ALARMS GALAXY #1-XD-PCN-A-RA-	WALL AT 8-9' AFF	120	RED LEDs	1	25	-
EX1	RED LED EXIT SIGN, SELF-POWERED, UNIVERSAL MOUNT WITH 12 WATT REMOTE CAPACITY.	LIGHT ALARMS GALAXY #UQLXN500-R-0-R-	WALL AT 8-9' AFF	120	RED LEDs	1	25	-
F1	OPAL GLASS VERTICAL TUBE SCONCE, 20 WATT LED, 3000K, BRUSHED NICHEL FINISH	ILEX ASTOR SCONCE #AST-WM-SH-BN-LED	WALL AT 5.5-6.5' AFF	120	20 Watt LED	1	30	-
F2	ACRYLLIC DIFFUSER, RECTANGULAR WALL SCONCE, 10.5 WATT LED, SATIN NICKEL	OXYGEN PATHWAYS #3-523-395-24-3	WALL AT 5.5-6.5' AFF	120	52 Watt LED	1	60	-
G	SURFACE MOUNT, 4' LED, OPAL ACRYLLIC LENS, 3500°K, 6000 LUMENS	LUMAX #CDLLED-71L-35K-94-9-OA-	CEILING SURFACE	120	70 WATT LED	1	75	-
H	4' WRAPAROUND, (2) 32 WATT T8 LAMPS, (1) BALLAST, ACRYLIC, 120 VAC	DAY-BRITE # SWB-2-32-120-1/2-EB10I	CEILING SURFACE @8'-9" AFF	120	(2) 32W T8	1	60	1,2
I1	INDUSTRIAL FLUORESCENT, BAKED WHITE ENAMEL REFLECTOR, (4) 32W T8 LAMPS, 8' TANDEM UNIT, AND 120 VAC ELECT BALLAST.	DAY-BRITE : #TIA-2-32-120-1/4-EB10I	CEILING SURFACE @ 8'-9' AFF	120	(4) 32W T8	1	120	1, 2
I2	INDUSTRIAL FLUORESCENT, BAKED WHITE ENAMEL REFLECTOR, (2) 32W T8 LAMPS, 4' UNIT, AND 120 VAC ELECT BALLAST.	DAY-BRITE : #TIA-2-32-120-1/2-EB10I	CEILING SURFACE @ 8'-9' AFF	120	(2) 32W T8	1	60	1, 2
J	2x2' FLAT PANEL LED, GRID MOUNT, 3500K, WHITE, CRI>90	LAUREN LGM-22-35-W-CQ-LD60-	CEILING GRID @ 8' AFF	120	47 Watt led	1	55	-
K	NOT USED							-
L	42" UNDER CABINET, 15 WATT LED, 4000K, WHITE, 120 VAC	LUMAX #LEDUC-42-WH	UNDER CABINET	120	15 Watt LED	1	20	-
M	CAST ALUMINUM, WET LOCATION RATED, WALL MOUNTED POLYCARBONATE GLOBE DIFFUSER, INCANDESCENT MOGUL BASE WITH 26 W CFL LAMP	STONCO ROUGH LYTE # VCXL-11-A	WALL @ 2' AFF	120	26 W CFL SELF BALLASTED	1	30	-

1. FLUORESCENT LAMPS TO BE 3500° K, CRI>80, 25,000 HRS MINIMUM
2. FLUORESCENT BALLASTS TO BE ELECTRONIC INSTANT START, SOUND RATING "A"
3. BALLAST AND FIXTURE RATED FOR 0°F OPERATION
4. FIXTURES WITH 'E' ARE TO HAVE OEM STANDARD EMERGENCY POWER/BATTERY BACKUP.
5. ADJUST HEADS TO COVER EGRESS PATH, REVIEW WITH OWNER
6. BATTERY BACKUP TO BE 1100 - 1400 LUMENS, AT LEAST (2) LAMPS
X: FINISH/COLOR BY ARCHITECT
XX: MOUNTING BY EC

PANEL LP2

KVA LOAD A	B	C	DESIGNATION TYPED ON DIRECTORY	GND	NEU	WIR SIZE	BKR	POLES	CKT NO	CKT NO	POLES	BKR	WIR SIZE	NEU	GND.	DESIGNATION TYPED ON DIRECTORY	KVA LOAD A	B	C
5.5			AHU-1	10	10	6	60	2	1	2	1	20	10	10	12	RCPT-BATH ROOMS	4.5		
	5.5		(7 KW HEAT)	-	-	-	-	-	3	4	1	20	10	10	12	RCPT-HALL SOUTH		0.5	
		1.7	HP -1	12	12	8	40	2	5	6	1	20	10	10	12	RCPT-MTG RM 2			0.7
1.7			(OUTSIDE EAST)	-	-	-	-	-	7	8	1	20	10	10	12	RCPT-MTG RM 2/FLOOR	0.4		
	5.5		AHU-2	10	10	6	60	2	9	10	2	40	8	12	12	WH-2		3.6	
		5.5	(7 KW HEAT)	-	-	-	-	-	11	12	-	-	-	-	-	MTG RM 2			3.6
1.7			HP-2	12	12	10	40	2	13	14	1	20	10	10	12	RCPT- STORAGE/HALL	0.7		
	2.5		(OUTSIDE S.E.)	-	-	-	-	-	15	16	1	20	10	10	12	RCPT-MTG RM 2 CNTR		0.2	
		1.0	WALL HEATER EWH-1	12	12	12	15	2	17	18	1	20	10	10	12	RCPT-MTG RM 1/WALLS			0.7
1.0			(NORTH EXIT)	-	-	-	-	-	19	20	1	20	10	10	12	RCPT-MTG RM 1/WALLS	0.7		
	0.5		RCPT - PLANTERS SE	12	12	12	20	1	21	22	1	20	10	10	12	RCPT-MTG RM 1/FLOOR		0.4	
		0.5	RCPT - PLANTERS NE	12	12	12	20	1	23	24	1	20	10	10	12	RCPT-MTG RM 1/FLOOR			0.4
0.5			RCPT - TREE PLANTER	12	12	12	20	1	25	26	1	20	10	10	12	RCPT-MTG RM 1/FLOOR	0.4		
	0.5		RCPT - PORCH WEST	12	12	12	20	1	27	28	1	20	10	10	12	RCPT-MTG RM 1/FLOOR		-	
		0.5	RCPT - PORCH WEST	12	12	12	20	1	29	30	2	40	8	12	12	WH-2			3.6
0.5			RCPT - PORCH EAST	12	12	12	20	1	31	32	-	-	-	-	-	MTG. RM 1	3.6		
	0.5		RCPT - PORCH EAST	12	12	12	20	1	33	34	1	20	10	10	12	RCPT-MTG RM 1/CONTER		0.2	
		0.5	RCPT - TRELLIS/STAGE	10	10	10	20	1	35	36	1	20	10	10	12	RCPT- MTG RM 1,2 SCRN			0.8
0.5			RCPT - TRELLIS/STAGE	10	10	10	20	1	37	38	1	20	-	-	-	SPARE	-		
	0.5		RCPT - TRELLIS/STAGE	10	10	10	20	1	39	40	1	20	10	10	12	RCPT-AV CLOSET		0.4	
		0.5	RCPT - TRELLIS/STAGE	10	10	10	20	1	41	42	1	20	10	10	12	RCPT-AV CLOSET			0.4
0.5			RCPT - TRELLIS/STAGE	10	10	10	20	1	43	44	2	30	10	10	12	WH-1	2.6		
	0.5		RCPT - TRELLIS/STAGE	10	10	10	20	1	45	46	-	-	-	-	-	BOTH BATHROOMS		2.6	
		0.5	RCPT - PLANTERS NORTH	10	10	10	20	1	47	48	1	20	-	-	-	SPARE			-
0.5			RCPT - PLANTERS SOUTH	10	10	10	20	1	49	50	1	20	-	-	-	SPARE	-		
	2.0		UNIT HEATER ,EH-1	12	12	10	20	2	51	52	1	20	10	10	12	LIGHTS-MTG. ROOMS		1.5	
		2	(EXIST. STAIRS)	-	-	-	-	-	53	54	1	15	10	10	12	LIGHTS-HALL STORAGE			1.5
12.4	18.0	12.7	TOTAL LEFT													TOTAL RIGHT	12.9	9.4	11.7

TOP FED BREAKER

ENCLOSURE: NEMA 1 FLUSH MOUNT
VOLTAGE: 208Y/120V, 3-PH, 4-W
BUSES : (PHASE/NEUTRAL) : 225/225A - AL
CU GROUND BUS
MAIN: 225A MAIN BREAKER
FEEDER: SEE "POWER RISER DIAGRAM"
INTERRUPTING RATING: 10 KAIC
DOOR-IN-DOOR HINGED COVER

LOAD	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING	3.0	1.25	4.0
HVAC (HEAT PUMP)	0.0	1.00	0.0
HVAC (COOLING)	0.0	1.00	0.0
HVAC (HEATING)	25.6	0.50	12.8
LARGE MOTORS (NON HVAC)	0.0	1.25	0.0
VENTILATION	22.0	0.50	11.0
KITCHEN	0.0	1.00	0.0
RECEPTACLES	12.0	10+0.5 Remain	11.0
COMPUTER-DATA	0.0	1.00	0.0
MISCELLANEOUS	0.0	0.50	0.0
TOTAL	62.6	N/A	38.8

A= 25.3 B= 27.4 C= 24.4 ΣΦ= 77.1 FLA= 214.0

LOCATION: SOUTH BASEMENT

PANEL LP3

KVA LOAD A	B	C	DESIGNATION TYPED ON DIRECTORY	GND	NEU	WIR SIZE	BKR	POLES	CKT NO	CKT NO	POLES	BKR	WIR SIZE	NEU	GND.	DESIGNATION TYPED ON DIRECTORY	KVA LOAD A	B	C
2.4			-	-	-	-	-	-	1	2	1	20	10	10	12	RCPT-COBB FB S. SERVING	0.4		
	2.4		PANEL LP4	6	6	6	70	3	3	4	1	20	10	10	12	RCPT-COBB FB S. SERVING		0.4	
		2.4	(AV CLOSET)	-	-	-	-	-	5	6	1	30	10	10	12	RCPT-COBB FB S. SERVING			0.4
0.0			SPARE	-	-	-	20	1	7	8	1	20	10	10	12	RCPT-COBB FB S. SERVING	0.4		
	0.0		SPARE	-	-	-	20	1	9	10	1	20	10	10	12	RCPT-COBB FB S. SERVING		0.4	
		0.0	SPARE	-	-	-	20	1	11	12	1	30	10	10	12	RCPT-COBB FB S. SERVING			0.4
0.7			RCPT-CONNELLY NORTH	12	10	10	20	1	13	14	1	20	10	10	12	RCPT-COBB SOUTH	0.4		
	0.7		RCPT-CONNELLY NORTH	12	10	10	20	1	15	16	1	20	10	10	12	RCPT-COBB WEST		0.4	
		0.7	RCPT-CONNELLY FB	12	10	10	20	1	17	18	1	20	10	10	12	RCPT-COBB EAST			0.4
0.5			RCPT-CONNELLY FB	12	10	10	20	1	19	20	1	20	10	10	12	RCPT-COBB EAST	0.4		
	0.5		RCPT-CONNELLY FB	12	10	10	30	1	21	22	1	20	10	10	12	RCPT-COBB NORTH		0.4	
		0.5	RCPT-CONNELLY FB	12	10	10	20	1	23	24	1	20	10	10	12	RCPT-COBB WEST			0.4
0.5			RCPT-CONNELLY FB	12	10	10	20	1	25	26	1	20	10	10	12	RCPT-COBB FB N. SERVING	0.4		
	0.5		RCPT-CONNELLY FB	12	10	10	20	1	27	28	1	20	10	10	12	RCPT-COBB FB N. SERVING		0.4	
		0.7	RCPT-CONNELLY SOUTH	12	10	10	20	1	29	30	1	30	10	10	12	RCPT-COBB FB N. SERVING			0.4
0.7			RCPT-CONNELLY SOUTH	12	10	10	20	1	31	32	1	20	10	10	12	RCPT-COBB FB N. SERVING	0.4		
	0.2		RCPT-CONNELLY EAST CNTR	12	12	12	20	1	33	34	1	20	10	10	12	RCPT-COBB FB N. SERVING		0.4	
		0.4	RCPT-CONNELLY EAST	12	12	12	20	1	35	36	1	30	10	10	12	RCPT-COBB FB N. SERVING			0.4
0.2			RCPT-CONNELLY EAST CNTR	12	12	12	20	1	37	38	1	20	12	12	12	RCPT- GREEN	0.4		
	0.0		SPARE	-	-	-	20	1	39	40	1	20	12	12	12	RCPT- GREEN		0.4	
		1.0	LGHT,BATH,GREEN RM.	12	12	12	20	1	41	42	1	20	12	12	12	RCPT- GREEN BATH			0.4
0.4			BATH RM FLUSH VALVES	14	14	14	15	1	43	44	1	20	12	12	12	RCPT- LOBBY EAST	0.7		
	1.2		LIGHTING CONN. CHAND.	12	12	12	20	1	45	46	1	20	12	12	12	RCPT- LOBBY WEST		0.7	
		1.0	LIGHTING CONN. DN	12	12	12	20	1	47	48	1	20	12	12	12	RCPT- RESTROOMS			0.4
1.0			LIGHTING- FOYER CHAND.	12	12	12	20	1	49	50	1	20	10	10	12	RCPT-COBB NORTH WALL	0.2		
	1.0		LIGHTING- FOYER DN	12	12	12	20	1	51	52	1	20	10	10	12	RCPT-COBB SOUTH WALL		0.2	
		1.2	LIGHTING- COBB CHAND. E.	12	12	12	20	1	53	54	1	20	12	12	12	RCPT- GREEN SOUTH WALL			0.5
1.0			LIGHTING- COBB DOWN W.	12	12	12	20	1	55	56	1	20	10	10	12	RCPT-COBB EAST WALL	0.4		
	1.2		LIGHTING- COBB CHAND. E.	12	12	12	20	1	57	58	1	20	-	-	-	SPARE		0.0	
		1.0	LIGHTING- COBB DOWN W.	12	12	12	20	1	59	60	1	20	12	12	12	RCPT- RCPT- ATTIC			0.5
7.4	7.7	8.9	TOTAL LEFT													TOTAL RIGHT	4.1	3.7	4.2

TOP FED BREAKER

ENCLOSURE: NEMA 1 SURFACE MOUNT
VOLTAGE: 208Y/120V, 3-PH, 4-W
BUSES : (PHASE/NEUTRAL) : 225/225A - AL
CU GROUND BUS
MAIN: 225A MAIN BREAKER
FEEDER: SEE "POWER RISER DIAGRAM"
INTERRUPTING RATING: 10 KAIC
DOOR-IN-DOOR HINGED COVER

LOAD	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING	10.0	1.25	12.5
HVAC (HEAT PUMP)	0.0	1.00	0.0
HVAC (COOLING)	0.0	1.00	0.0
HVAC (HEATING)	1.4	0.40	0.6
LARGE MOTORS (NON HVAC)	0.0	1.25	0.0
VENTILATION	0.0	1.00	0.0
KITCHEN	0.0	1.00	0.0
RECEPTACLES	27.4	10+0.5 Remain	18.7
COMPUTER-DATA	0.0	1.00	0.0
MISCELLANEOUS	0.0	0.50	0.0
TOTAL	38.8	N/A	31.8

A= 11.5 B= 11.4 C= 13.1 ΣΦ= 36.0 FLA= 99.9

LOCATION: MAIN FLOOR LOBBY OFFICE

PANEL LP4

KVA LOAD A	B	C	DESIGNATION TYPED ON DIRECTORY	GND	NEU	WIR SIZE	BKR	POLES	CKT NO	CKT NO	POLES	BKR	WIR SIZE	NEU	GND.	DESIGNATION TYPED ON DIRECTORY	KVA LOAD A	B	C
1.0			RCPT- AV CLOSET N	12	12	12	20	1	1	2	1	15	12	12	12	RCPT- SCREEN/PROJ.CONN	0.5		
	1.0		RCPT- AV CLOSET E	12	12	12	20	1	3	4	1	15	12	12	12	RCPT- SCREEN/PROJ.COBB		0.8	
		1.0	RCPT- AV CLOSET S.	12	12	12	20	1	5	6	1	20	-	-	-	SPARE			0.0
0.5			SAP PANEL	12	12	12	15	1	7	8	-	-	-	-	-	-	0.0		
	0.8		AV PANEL	12	12	12	15	1	9	10	3	30	10	10	10	TVSS		0.0	
		0.0	SPARE				20	1	11	12	-	-	-	-	-	-			0.0
0.0			SPARE				20	1	13	14	1	20				SPARE	0.0		
	0.0		SPARE				20	1	15	16	1	20				SPARE		0.0	
		0.0	SPARE				20	1	17	18	1	20				SPARE			0.0
0.0			SPARE	-	-	-	20	1	19	20	1	20	-	-	-	SPARE	0.0		
1.5	1.8	1.0	TOTAL LEFT													TOTAL RIGHT	0.5	0.8	0.0

TOP FED BREAKER

ENCLOSURE: NEMA 1 SURFACE MOUNT
VOLTAGE: 208Y/120V, 3-PH, 4-W
BUSES : (PHASE/NEUTRAL) : 125/125A - AL
CU GROUND BUS
MAIN: 60A MAIN BREAKER
FEEDER: SEE "POWER RISER DIAGRAM"
INTERRUPTING RATING: 10 KAIC
LOAD CENTER

LOAD	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING	0.0	0.00	0.0
HVAC (HEAT PUMP)	0.0	0.00	0.0
HVAC (COOLING)	0.0	0.00	0.0
HVAC (HEATING)	0.0	0.00	0.0
LARGE MOTORS (NON HVAC)	0.0	0.00	0.0
VENTILATION	0.0	0.00	0.0
KITCHEN	0.0	0.00	0.0
RECEPTACLES	0.0	10+0.5 Remain	0.0
COMPUTER-DATA	2.5	1.00	2.5
MISCELLANEOUS	1.3	1.00	1.3
TOTAL	3.8	N/A	3.8

A= 2.0 B= 2.6 C= 1.0 ΣΦ= 5.6 FLA= 15.5

LOCATION: AV CLOSET IN OFFICE

GLAZER ARCHITECTURE, PA
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Morganton Community House

120 N. King Street
Morganton, NC

Project Number: 1236
Revisions:

Drawing:
Electrical - Power Panels & Lighting Schedule
Date: 10/17/2016

Sheet Number:
E2.2

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