# BEATRICE PUBLIC LIBRARY RENOVATION

100 N. 16th Street | Beatrice NE | 68310

# BID DOCUMENTS - NOV. 15, 2013

## BID ALTERNATES

ALTERNATE #1. REMOVE MOVEABLE PARTITION WALL AND ASSOCIATED CONSTRUCTION IN "PRICE ROOM 105". **NO MOVEABLE PARTITION TO BE BASE BID.**

ALTERNATE #2. REMOVE WOOD CEILING AND ACCENT WALL IN ROOMS "LOBBY 001", "CIRCULATION 006" . REPLACE WALL WITH FINISH TO MATCH ADJACENT. REPLACE CEILING IN ROOM "LOBBY 001" WITH DROP CEILING AND LIGHT FIXTURES TO MATCH THOSE IN STUDY ROOMS, AND REPLACE CEILING IN ROOM "CIRCULATION 006" WITH LIGHT FIXTURES AND PAINTED EXISTING CEILING TO MATCH THOSE IN ROOM "STACKS B 027". CEILING AND ACCENT WALL TO STAY IN ROOM "WORKROOM 029", BUT BE DOWNSIZED. SEE ALTERNATE DRAWING ON A7.0b FOR MORE INFORMATION. **WOOD CEILING AND WOOD ACCENT WALLS IN ROOMS "LOBBY 001", "CIRCULATION 006", AND "WORKROOM 029" ARE TO BE BASE BID (AS PER A7.0a).**

ALTERNATE #3. REMOVE WOOD ON ALL FREESTANDING COLUMNS IN BASEMENT. REPLACE WITH GWB AND BASE TO MATCH ADJACENT SCHEDULED CONDITIONS. **WOOD PANEL FINISH AT ALL COLUMNS TO BE BASE BID.**

ALTERNATE KEYED NOTES (APPLICABLE FOR ALL DRAWINGS):

- (A1) ALTERNATE #1
- (A2) ALTERNATE #2
- (A3) ALTERNATE #3

## PROJECT CONTACT INFORMATION

### OWNER:

CITY OF BEATRICE

OWNER'S REPRESENTATIVE: TOBIAS TEMPLEMEYER
400 ELLA STREET
BEATRICE, NE 68310

LIBRARY'S REPRESENTATIVE: LAUREEN RIEDESEL
100 NORTH 16TH STREET
BEATRICE, NE 68310

### ARCHITECT:

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PROJECT PRINCIPAL: MICHAEL ALLEY
PROJECT MANAGER: RYAN FISHER AND NANCY NOVAK
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STRUCTURAL ENGINEER: KIP SQUIRE
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### MEP ENGINEER:

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MECHANICAL ENGINEER: JOHN DELANEY
ELECTRICAL ENGINEER: ANDY LANG
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## DRAWING SHEET INDEX


### ARCHITECTURAL

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G1.2 EGRESS PLANS

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AD1.1 FIRST FLOOR PLAN - DEMO

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A1.1 FIRST FLOOR PLAN - NEW
A1.2 ENLARGED FLOOR PLANS, STAIR SECTIONS, AND STAIR DETAILS

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E3.1 ELECTRICAL DETAILS AND SCHEDULES
E3.2 ELECTRICAL DETAILS AND SCHEDULES


## VICINITY MAP

## SUBMITTALS

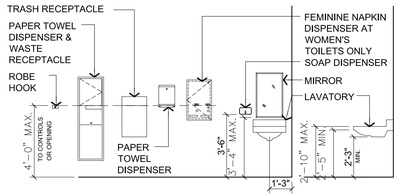
| REVISION | ISSUED | DATE |
|---|---|---|
| - | PRICING SET | 06.14.2013 |
| - | BID DOCUMENTS | 11.15.2013 |

ALLEY• POYNER
MACCHIETTO
ARCHITECTURE

## COORDINATING PROFESSIONAL

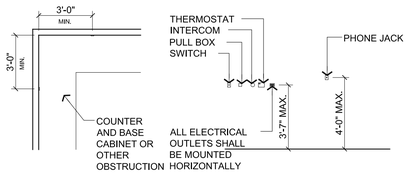
STATE OF MISSOURI
MICHAEL D. ALLEY
A-4671
REGISTERED ARCHITECT

Michael D. Alley is acting as the Coordinating Professional on the Beatrice Public Library Renovation project.



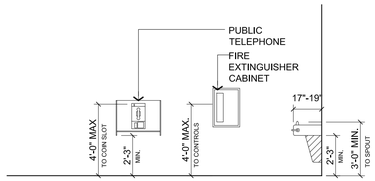

## B6 ADAPTABLE & ACCESSIBLE FIXTURES & ACCESSORIES

G1.1 SCALE: 1/4" = 1'-0"




## D6 STANDARD ADAPTABLE & ACESSIBLE OUTLETS & CONTROLS ABOVE COUNTERTOPS & OTHER OBSTRUCTIONS LESS THAN 25" IN DEPTH

G1.1 SCALE: 1/4" = 1'-0"




## F6 MISCELLANEOUS ADAPTABLE & ACCESSIBLE FIXTURES

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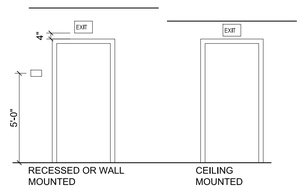
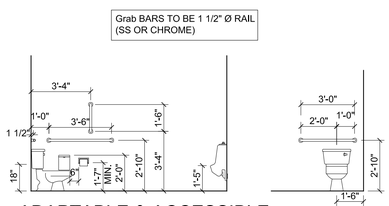



## H9 STANDARD ADAPTABLE & ACCESSIBLE ROOM DESIGNATION & EXIT SIGNS

G1.1 SCALE: 1/4" = 1'-0"




## K9 ADAPTABLE & ACCESSIBLE FIXTURES & ACCESSORIES

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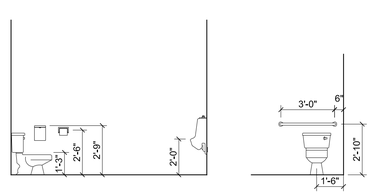
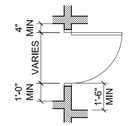


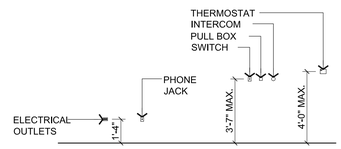

## M9 STANDARD FIXTURES & ACCESSORIES

G1.1 SCALE: 1/4" = 1'-0"



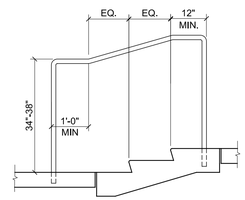

## B10 TYPICAL DOOR

G1.1 SCALE: 1/4" = 1'-0"




## D10 STANDARD ADAPTABLE & ACCESSIBLE OUTLETS, SWITCHES & CONTROLS

G1.1 SCALE: 1/4" = 1'-0"




## G10 MOUNTING HEIGHT / STAIR DETAILS

G1.1 SCALE: 1/2" = 1'-0"

### REFERENCE SYMBOLS

(SEE ALSO INDIVIDUAL SHEET SYMBOL KEYS)

- X / A.X.X — DETAIL NUMBER / SHEET NUMBER
- A X A.X.X B — INTERIOR ELEVATIONS
- X / A.X.X — DETAIL REFERENCE
- X / A.X.X — BUILDING SECTION
- A — GRID LINE
- 100'-0" ELEV — ELEVATION
- FEC — FIRE EXTINGUISHER CABINET
- 100 — DOOR NUMBER
- W — WOOD CASED OPENING; 7'-0" HEADER U.N.O. SEE R10/A6.2
- GWB — GYPSUM WALL BOARD CASED OPENING; PROVIDE HEADER @ 7'-0" U.N.O.
- 5 — WINDOW TYPE
- P4 — WALL TYPE
- 1 — FLAG NOTE
- OFFICE 100 — ROOM NAME / ROOM NUMBER
- MATCH LINE
- NORTH — NORTH ARROW

### MATERIAL SYMBOLS

- EARTH, UNEXCAVATED
- EARTH, BACKFILL
- GRANULAR FILL
- CONCRETE
- CONCRETE BLOCK
- FACE BRICK
- STEEL
- WOOD
- CONTIN. DIMENSION LUMBER
- NON-CONTINUOUS BLOCKING
- CERAMIC OR QUARRY TILE
- BATT INSULATION
- RIGID INSULATION
- PLYWOOD
- STONE

## M10 STANDARD SYMBOLS

A1.0 SCALE: NO SCALE

THE FOLLOWING PROJECT NOTES ARE TYPICAL AND APPLICABLE TO ALL PORTIONS OF THE BUILDING

1. ALL DIMENSIONS ARE FACE OF FINISH TO FACE OF FINISH UNLESS NOTED OTHERWISE.
2. DO NOT SCALE FROM DRAWINGS.
3. VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.
4. VERIFY ALL EXISTING FLOOR ELEVATIONS AND REPORT THIS INFORMATION TO THE ARCHITECT IMMEDIATELY.
5. FIRE STOP ALL FLOOR AND WALL PENETRATIONS AS REQUIRED BY CODE.
6. LAYOUT ENTIRE FLOOR BEFORE PROCEEDING WITH WALL INSTALLATION. REVIEW LAYOUT WITH ARCHITECT.
7. FINISHES LABLED 'TBD' ARE TO BE SELECTED BY ARCHITECT BASED ON MANUFACTURER'S AVAILABLE STANDARD SELECTIONS UNLESS NOTED OTHERWISE.
8. ALL FURNITURE SHOWN IS FOR REFERENCE ONLY AND IS N.I.C. UNLESS OTHERWISE NOTED.

## C14 PROJECT NOTES

G1.1 SCALE: NO SCALE

## WALL TYPES

SEE STRUCTURAL FOR ADDITIONAL INFORMATION

| TYPE | DESCRIPTION | NOMINAL THICKNESS | ACTUAL THICKNESS | FIRE RATING | ASSEMBLY NUMBER |
|---|---|---|---|---|---|
| **PARTITIONS - NONRATED** | | | | | |
| P4 | 2x4 WOOD STUDS AT 16" O.C. W/ ONE LAYER OF 5/8" GWB EACH SIDE CONTINUOUS FROM FLOOR TO UNDERSIDE OF DECK. | 5" | 4-3/4" | - | - |
| P6 | SAME AS P4, EXCEPT 2x6 WOOD STUDS. | 7" | 6-3/4" | - | - |
| **PARTITIONS - FIRE RATED (RUN ALL WALLS TO BOTTOM OF DECK ABOVE)** | | | | | |
| R6 | 2x6 WOOD STUDS AT 16" O.C. W/ (1) LAYER 5/8" TYPE X GWB AT EACH SIDE; FOAM GASKET W/ SEALANT @ TOP AND BOTTOM OF WALL | 7" | 6-3/4" | 1-HR | BASED ON UL-U311 |

### PARTITIONS MAY INCLUDE ONE OR MORE OF THE FOLLOWING QUALIFIERS:

- XX-A — ACOUSTIC WALL: PROVIDE SOUND BATT FULL DEPTH OF STUD CAVITY AND FULL HEIGHT OF WALL, PROVIDE ACOUSTIC CAULKING AT TOP AND BOTTOM OF WALL, AT CONCRETE FLOOR SET WALLS ON CONTINUOUS FOAM SILL SEALER.
- XX-W — WOOD WALL: PROVIDE VENEER PLYWOOD ACCORDING TO INTERIOR ELEVATIONS

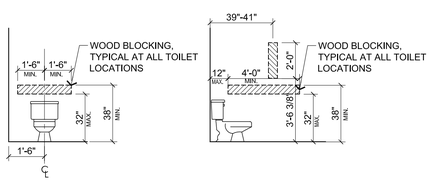
| | | | | | |
|---|---|---|---|---|---|
| **OTHER** | | | | | |
| F1 | 2x4 WOOD STUDS WITH 5/8" GWB, ONE SIDE, TO ALIGN WITH ADJACENT FINISHED SURFACES | 4" | 4-1/8" | - | - |
| F2 | 2x4 WOOD STUDS WITH 5/8" PLYWOOD SHEATHING AND 1x6 T&G DOUG FIR SLATS; HOLD 2" OFF ADJ. PERP. WALL AND WRAP SLATS BACK TO ADJ. WALL W/ MITERED CORNER | 5" | 4-7/8" | - | - |
| F3 | 2x4 WOOD STUDS WITH 5/8" GWB AND 3/4" PLYWOOD VENEER BOTH SIDES @ 42" A.F.F. | 6" | 6-1/4" | - | - |
| F4 | 2-1/2" Z-FURRING CHANNELS W/ 2-1/2" RIGID INSULATION AND 5/8" GWB CONT. FROM FLOOR TO STRUCTURE ABOVE | 3" | 3-1/8" | - | - |

## WALL TYPE NOTES

1. ALL WALLS SHALL BE TYPE P4 UNLESS NOTED OTHERWISE.
2. PROVIDE SOUND BATT INSULATION (XX-A) FOR FULL HEIGHT OF WALL AT ALL BATHROOM WALLS.
3. FIRE CAULK ALL PENETRATIONS THROUGH ALL RATED WALLS AND AND FLOOR / CEILING ASSEMBLIES.
4. WALLS DESIGNATED WITH TO BE 1-HR. RATED. SEE FLOOR PLANS
5. SEE FINISH SCHEDULE FOR FINISHES.
6. WALLS ARE LAYED-OUT AND DIMENSIONED TO NOMINAL THICKNESS FOR CLARITY. ACCUMULATE TOLERANCES TOWARDS NON-CRITICAL SPACES. CONSULT WITH THE ARCHITECT FOR DETERMINATION OF CRITICAL AND NON-CRITICAL DIMENSIONS.
7. ALL DIMENSIONS ARE TO FINISHED FACE OF WALL, UNLESS OTHERWISE NOTED. FINISHES INCLUDE APPLIED WALL FINISHES.
8. ALL WALLS ARE TO REST ON CONTINUOUS FOAM SILL SEALER UNLESS OTHERWISE NOTED. PROVIDE CONT. SEALANT AT EACH SIDE OF STUD WALL.
9. ALL WALLS TO RUN TO UNDERSIDE OF DECK ABOVE UNLESS OTHERWISE NOTED.
10. SEE J15/A4.1 FOR DETAIL AT EXISTING JOISTS WHERE CEILING TRANSITIONS FROM EXPOSED TO FINISHED

## M14 WALL TYPES

A1.0 SCALE: NO SCALE




## B1 TYPICAL BLOCKING REQUIREMENTS AT TOILETS

G1.1 SCALE: 1/4" = 1'-0"

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STATE OF MISSOURI
MICHAEL D. ALLEY
A-4671
REGISTERED ARCHITECT

| REVISION | DATE |
|---|---|

PROJECT NUMBER: 12027

DATE: 11/15/2013


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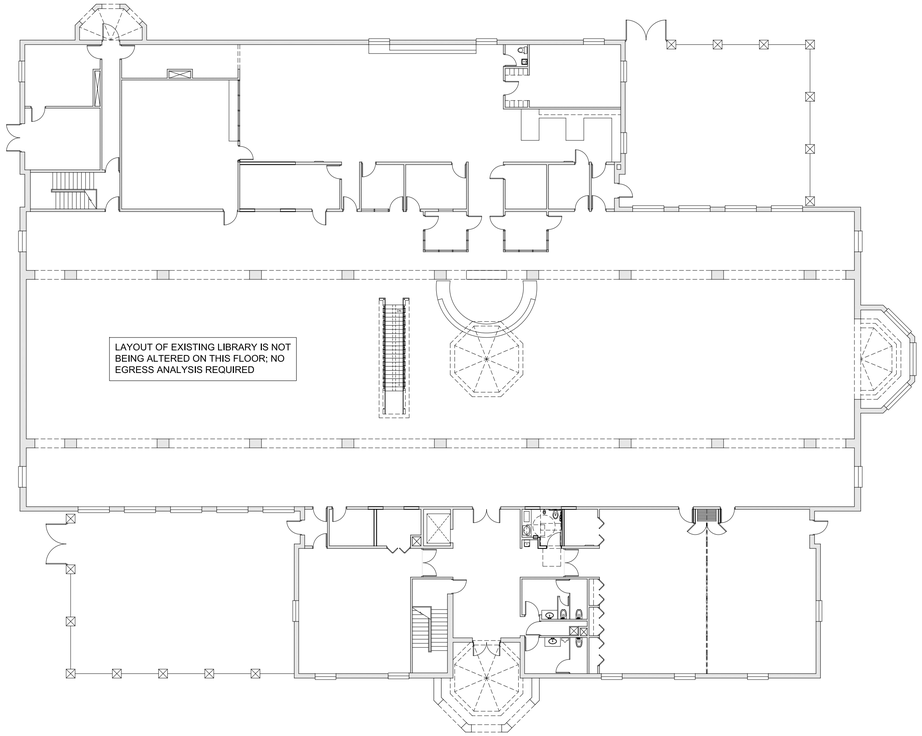
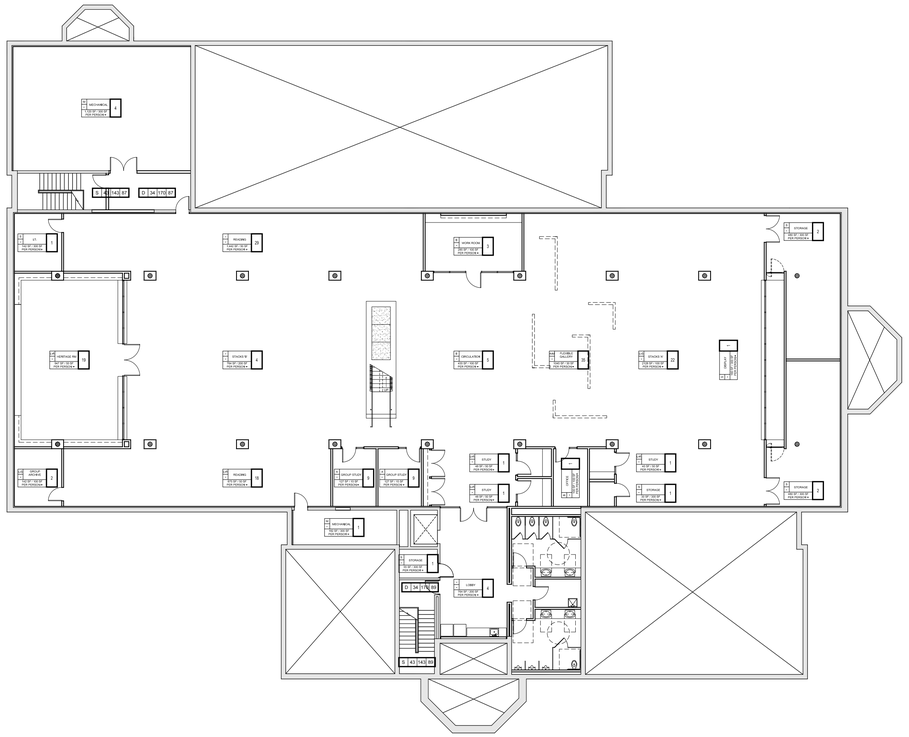
GENERAL NOTES, WALL TYPES, AND DIAGRAMS

# G1.1




F10 FIRST FLOOR EGRESS PLAN

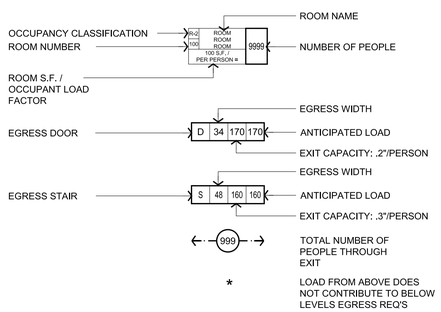
G1.2 SCALE: 1/16" = 1'-0"



M10 BASEMENT FLOOR EGRESS PLAN

G1.2 SCALE: 1/16" = 1'-0"

## EGRESS ANALYSIS LEGEND




M6 EGRESS ANALYSIS LEGEND

G1.2 SCALE: NO SCALE

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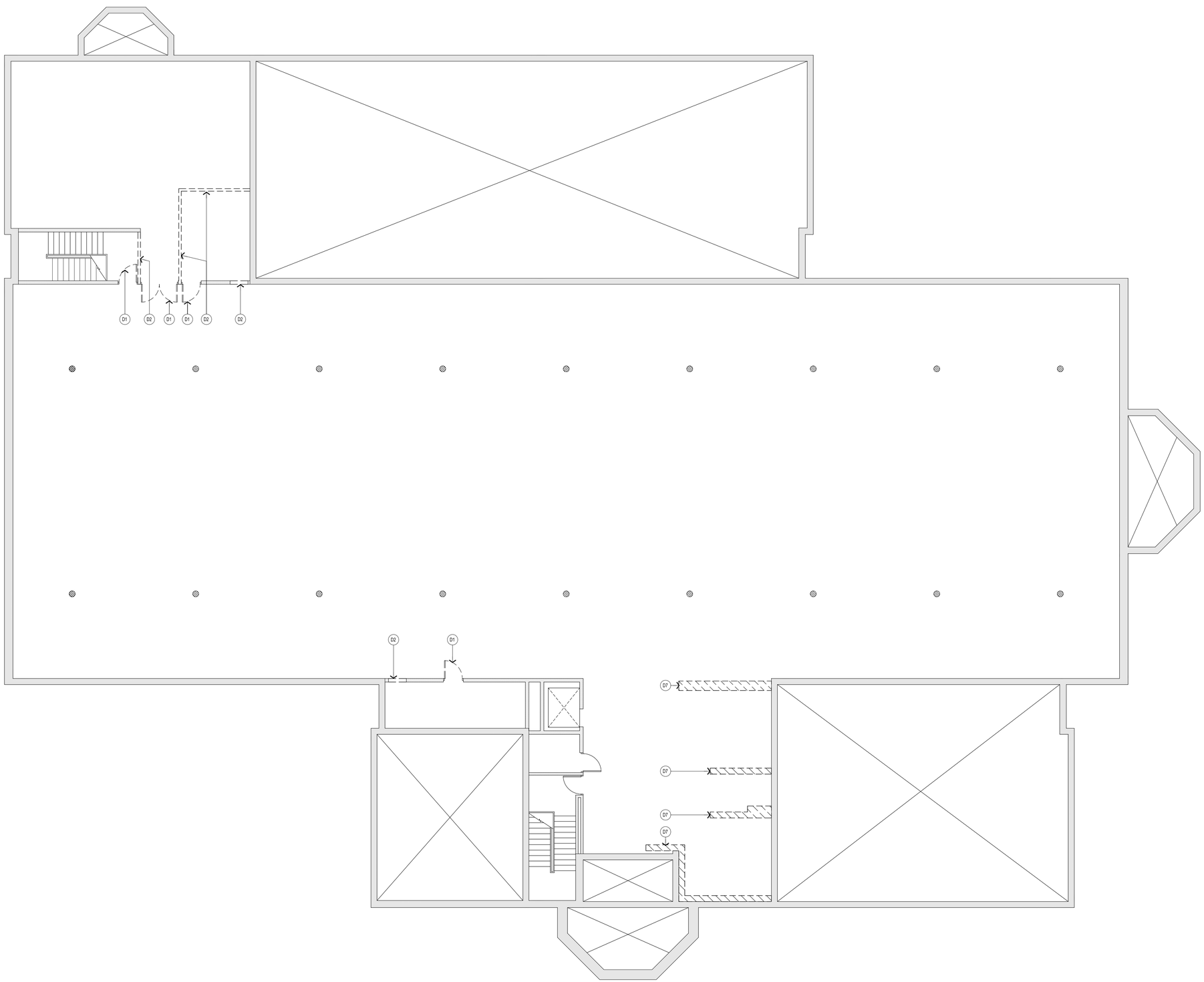
EGRESS PLANS

G1.2




M1 BASEMENT FLOOR PLAN - DEMO

AD1.0 SCALE: 1/8" = 1'-0"

GENERAL DEMO NOTES:

1. THE INTENT OF THESE DEMO DRAWINGS IS TO DEFINE A GENERAL SCOPE OF DEMOLITION WORK. THESE DRAWINGS MAY NOT IDENTIFY ALL ITEMS TO BE REMOVED OR PROTECTED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL ITEMS WHICH MUST BE REMOVED OR PROTECTED TO FACILITATE NEW CONSTRUCTION.
2. ITEMS DRAWN BOLD AND DASHED SHALL BE REMOVED BY CONTRACTOR, REFER TO KEYED NOTES FOR SPECIFIC ITEMS.
3. PROTECT ALL ITEMS NOT SLATED FOR DEMOLITION. CONTRACTOR RESPONSIBLE FOR REPAIR / REPLACEMENT OF ALL ITEMS DAMAGED DURING DEMOLITION.
4. THE CONTRACTOR SHALL SHORE AS REQUIRED ANY AREAS AFFECTED OR COMPROMISED BY DEMOLITION ACTIVITIES. CONTACT ARCHITECT AS REQ'D PRIOR TO DOING SO.
5. REMOVE / PATCH / REPAIR EXISTING ELEMENTS WHERE REQUIRED FOR NEW CONSTRUCTION OF ALL TRADES.
6. COORDINATE DEMOLITION OF ALL NEW OPENINGS WITH NEW CONSTRUCTION DRAWINGS.

KEYED PLAN NOTES:

D1 REMOVE EXISTING DOOR AND FRAME; SALVAGE FOR INSTALLATION AT NEW LOCATION

D2 REMOVE EXISTING WALL AND ANY ASSOCIATED ELEMENTS

D3 REMOVE EXISTING FLOOR SLAB AS REQUIRED FOR NEW CONSTRUCTION

D4 REMOVE EXISTING CARPET AND MASTIC; PREPARE FLOOR FOR NEW FINISH; WHERE APPLICABLE, NEW CARPET TO OCCUR AROUND STACKS BUT NOT UNDER THEM - COORD. EXACT LOCATIONS WITH M1/A6.4 AND M1/6.5; COORD. EXACT FINISH WITH FINISH PLANS

D5 EXISTING DOOR AND FRAME SWING TO BE MIRRORED / FLIPPED; DOOR TO REMAIN IN ORIGINAL LOCATION

D6 SAVE EXISTING DUCTWORK AND CEILING TILE IN THIS AREA FOR REUSE; COORD. W/ MEP

D7 SAWCUT AND PREP EXISTING SLAB FOR NEW PLUMBING; COORD. EXACT LOCATIONS WITH NEW BASEMENT FLOOR PLAN

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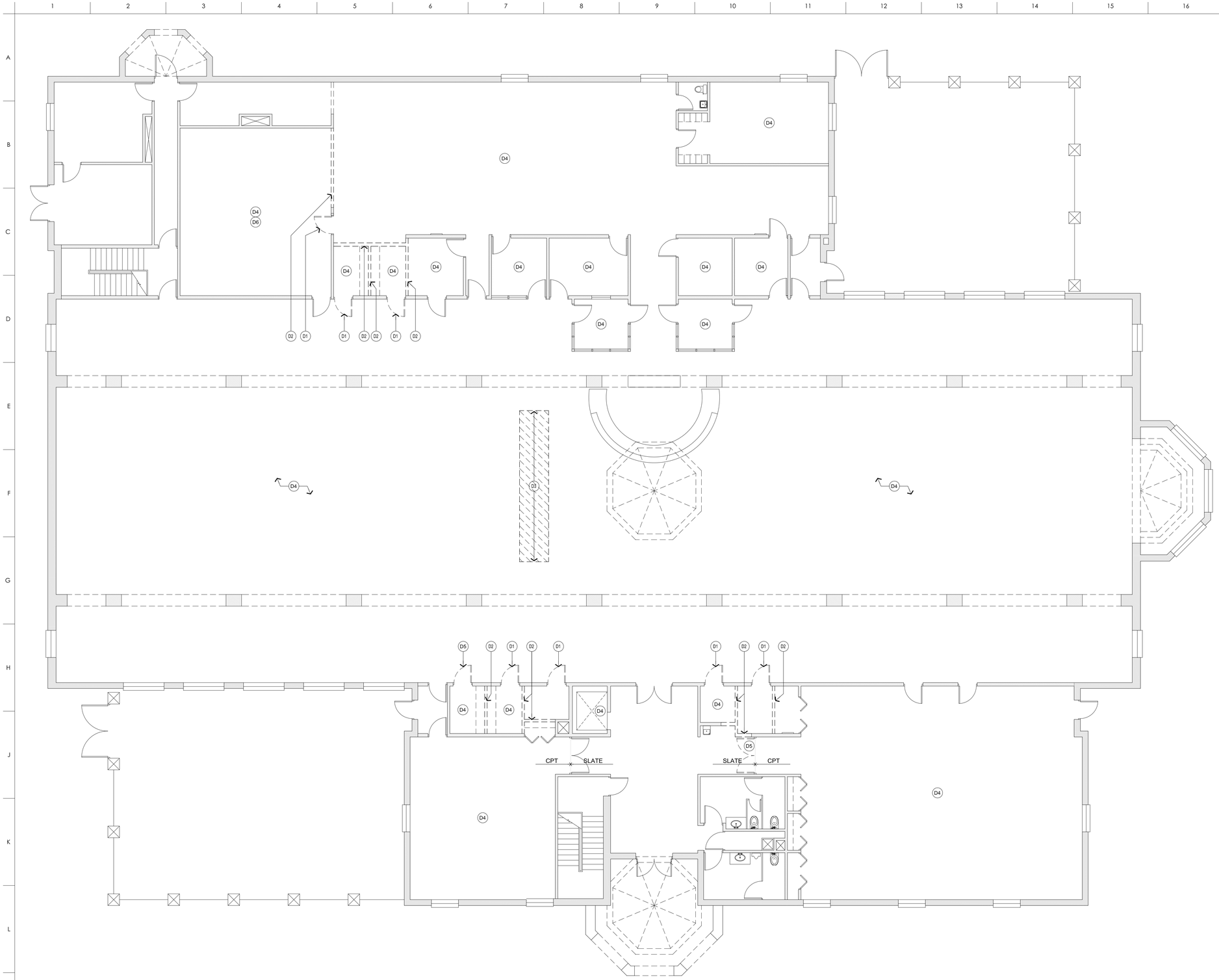
BASEMENT FLOOR PLAN - DEMO

AD1.0




M1 FIRST FLOOR PLAN - DEMO

AD1.1 SCALE: 1/8" = 1'-0"

GENERAL DEMO NOTES:

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2. ITEMS DRAWN BOLD AND DASHED SHALL BE REMOVED BY CONTRACTOR, REFER TO KEYED NOTES FOR SPECIFIC ITEMS.
3. PROTECT ALL ITEMS NOT SLATED FOR DEMOLITION. CONTRACTOR RESPONSIBLE FOR REPAIR / REPLACEMENT OF ALL ITEMS DAMAGED DURING DEMOLITION.
4. THE CONTRACTOR SHALL SHORE AS REQUIRED ANY AREAS AFFECTED OR COMPROMISED BY DEMOLITION ACTIVITIES. CONTACT ARCHITECT AS REQ'D PRIOR TO DOING SO.
5. REMOVE / PATCH / REPAIR EXISTING ELEMENTS WHERE REQUIRED FOR NEW CONSTRUCTION OF ALL TRADES.
6. COORDINATE DEMOLITION OF ALL NEW OPENINGS WITH NEW CONSTRUCTION DRAWINGS.

KEYED PLAN NOTES:

D1 REMOVE EXISTING DOOR AND FRAME; SALVAGE FOR INSTALLATION AT NEW LOCATION WHERE POSSIBLE; COORD. FINAL LOCATIONS W/ ARCHITECT

D2 REMOVE EXISTING WALL AND ANY ASSOCIATED ELEMENTS

D3 REMOVE EXISTING FLOOR SLAB AS REQUIRED FOR NEW CONSTRUCTION

D4 REMOVE EXISTING CARPET AND MASTIC; PREPARE FLOOR FOR NEW FINISH; WHERE APPLICABLE, NEW CARPET TO OCCUR AROUND STACKS BUT NOT UNDER THEM - COORD. EXACT LOCATIONS WITH M1/A6.4 AND M1/6.5; COORD. EXACT FINISH WITH FINISH PLANS

D5 EXISTING DOOR AND FRAME SWING TO BE MIRRORED / FLIPPED; DOOR TO REMAIN IN ORIGINAL LOCATION

D6 SAVE EXISTING DUCTWORK AND CEILING TILE IN THIS AREA FOR REUSE; COORD. W/ MEP

D7 SAWCUT AND PREP EXISTING SLAB FOR NEW PLUMBING; COORD. EXACT LOCATIONS WITH NEW BASEMENT FLOOR PLAN

# Beatrice Public Library Renovation

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STATE OF NEBRASKA
MICHAEL D. ALLEY
A-4671
REGISTERED ARCHITECT

| REVISION | DATE |
|---|---|

PROJECT NUMBER: 12027

DATE: 11/15/2013

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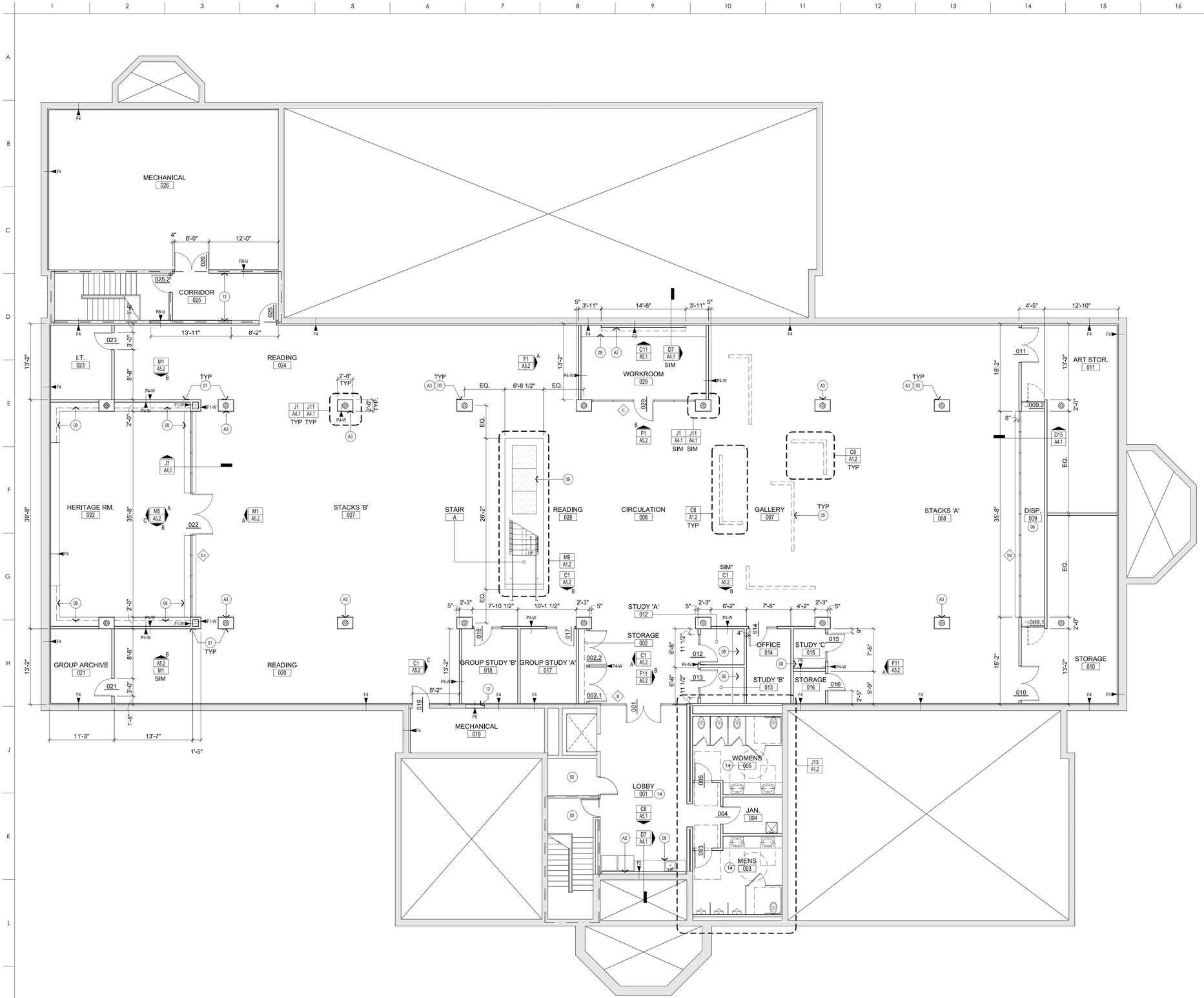
FIRST FLOOR PLAN - DEMO

AD1.1




M1 BASEMENT PLAN - NEW (A2) (A3)

A1.0 SCALE: 1/8" = 1'-0"

GENERAL PLAN NOTES:

1. SEE G1.0 FOR GENERAL BUILDING NOTES.
2. SEE ENLARGED PLANS AS NOTED FOR ADDITIONAL INFORMATION AND DETAILS.
3. ALL DIMENSIONS REFERRING TO EXISTING CONSTRUCTION ARE APPROXIMATE AND ARE TO SHOW INTENT; CONTRACTOR TO FIELD VERIFY THESE DIMENSIONS PRIOR TO CONSTRUCTION AND CONSULT ARCHITECT WITH ANY MAJOR DISCREPANCIES.
4. ALL STUD WALLS ARE DIMENSIONED FROM FACE OF FINISH TO FACE OF FINISH, U.O.N.; APPLIED FINISHES SUCH AS CERAMIC TILE ARE NOT INCLUDED AS PART OF WALL THICKNESS.
5. PROVIDE FIRE TAPING AND SEALANT TO MAINTAIN FIRE RATING WHERE REQUIRED.
6. ALL WALLS TO BE TYPE 'P4' U.O.N.
7. SEE COVER SHEET FOR LIST OF BID ALTERNATE DESCRIPTIONS AND CALLOUTS.

KEYED PLAN NOTES:

01 ALIGN

02 NO WORK IN THIS AREA

03 EXISTING STEEL COLUMN W/ NEW FURRING; SEE DETAILS FOR MORE INFORMATION

04 NEW WALL INFILL TO MATCH ADJACENT WAINSCOT CONSTRUCTION WHERE APPLICABLE; SEE D11/A4.1 FOR MORE INFORMATION.

05 NEW MOVABLE GALLERY PARTITION; SEE DETAILS ON C8/A1.2 FOR MORE INFO.

06 ELEVATED DISPLAY PLATFORM; SEE DETAILS FOR MORE INFO.

07 NOT USED

08 NEW BUILT IN CABINETRY / SHELVING; SEE J15/A5.1 FOR SIMILAR CONSTRUCTION, U.O.N.

09 SOLID SURFACE FOR POTTED PLANTS; SEE SECT. AND DET. FOR MORE INFO.

10 NEW WOOD BOX GUARDRAIL; SEE SHEET A1.2 FOR MORE INFO.

11 ORIGINAL DOOR AND FRAME WITH MIRRORED SWING

12 OPERABLE PARTITION AND STRUCTURE ABOVE

13 ADJUST NEW WALL TYPE TO ALIGN WITH EXISTING WALL THICKNESS; NEW WALL ASSEMBLY NOT TO BE LESS SUBSTANTIAL THAN SPECIFIC WALL TYPE CONSTRUCTION; FIRE RATING TO BE MAINTAINED WHERE INDICATED

14 PATCH AND REPAIR EXIST. CONC. SLAB WHERE NEW PLUMBING WAS INSTALLED; SEE DEMO PLANS FOR APPROXIMATE LOCATIONS

* INT. ELEVATION SIM. WITH EXCEPTION OF DOOR LOCATION; COORD. DOOR WITH BASEMENT FLOORPLAN AND COORD. WOOD PANEL REVEALS WITH C1/A5.2

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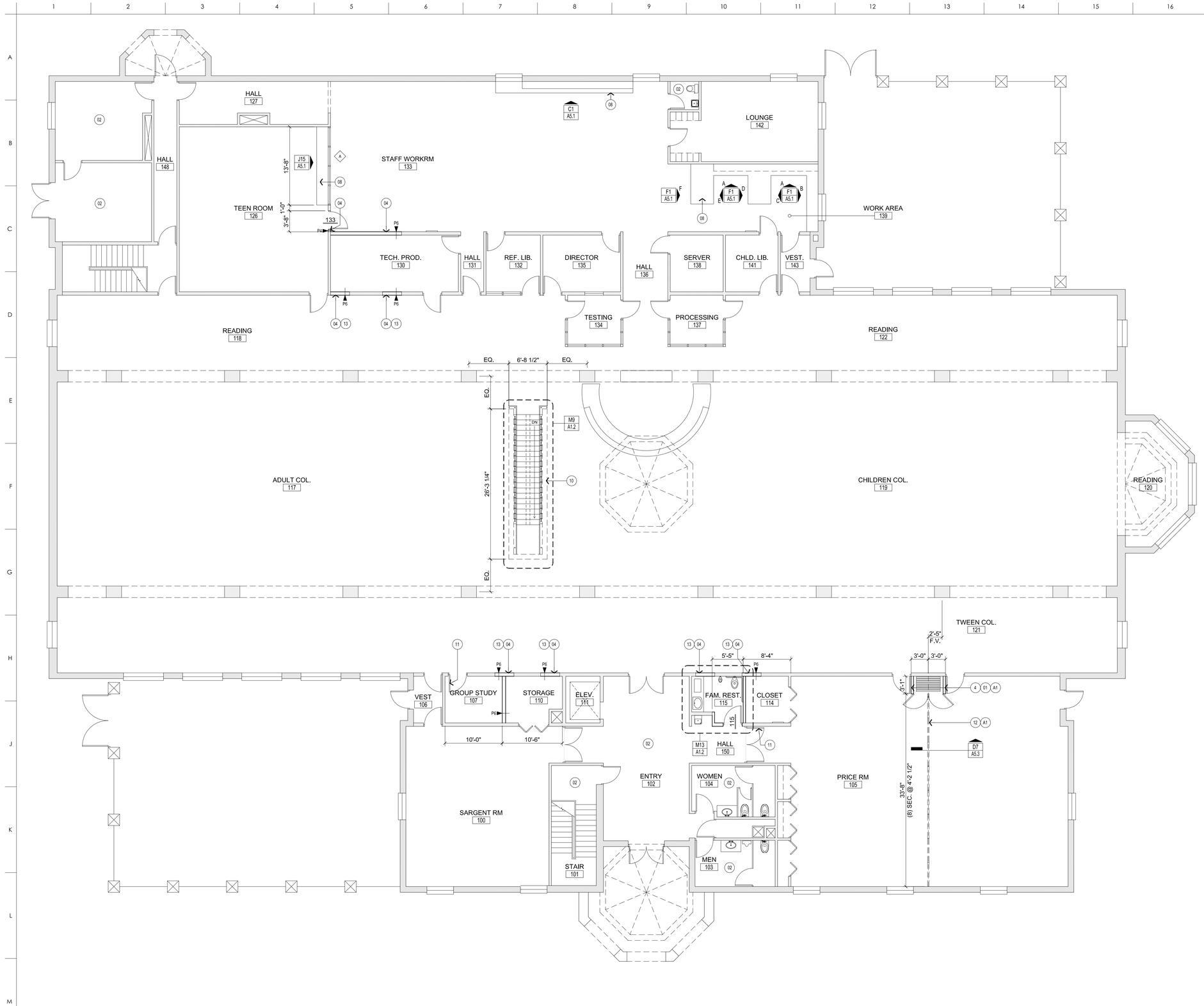
BASEMENT PLAN - NEW

A1.0




GENERAL PLAN NOTES:

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7. SEE COVER SHEET FOR LIST OF BID ALTERNATE DESCRIPTIONS AND CALLOUTS.

KEYED PLAN NOTES:

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07 NOT USED

08 NEW BUILT IN CABINETRY / SHELVING; SEE J15/A5.1 FOR SIMILAR CONSTRUCTION, U.O.N.

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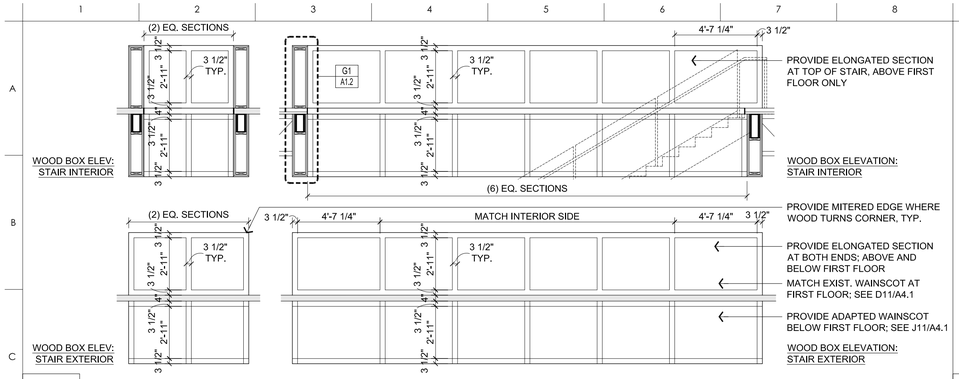
FIRST FLOOR PLAN - NEW

A1.1

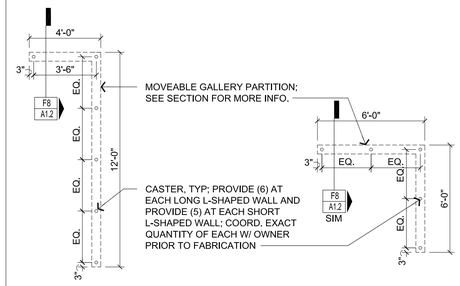
M1 FIRST FLOOR PLAN - NEW (A1)
A1.1 SCALE: 1/8" = 1'-0"




## C1 INT. ELEVATION AT WOOD BOX GUARDRAIL / BULKHEAD

ELEVATIONS TO BE SIMILAR AT OPPOSITE ENDS

A1.2 SCALE: 1/4" = 1'-0"




## C8 ENLARGED PLAN AT TYP. GAL. PART.

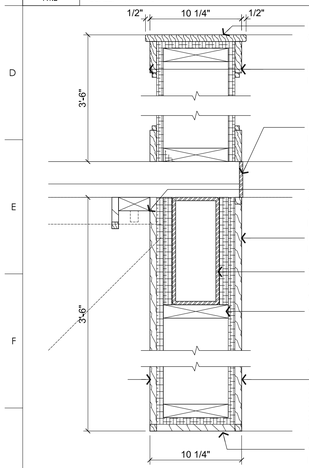
A1.2 SCALE: 1/4" = 1'-0"

## TOILET ACCESSORIES SCHEDULE

| MARK | DESCRIPTION | MANUFACTURER | ITEM NO. |
|---|---|---|---|
| GB | GRAB BAR | ASI OR EQUAL | SEE SHEET G1.1 & SPEC |
| SD | SANITARY NAPKIN DISPOSAL | ASI OR EQUAL | 0852 |
| TT | TOILET TISSUE DISPENSER | ASI OR EQUAL | 0697-GAL |
| MA | MOP RACK ACCESSORY | BOBRICK OR EQUAL | 223 X 24 |
| MR | MIRROR | ASI OR EQUAL | FULL WIDTH / HEIGHT |
| BC | BABY CHANGING STATION | KOALA KARE | KB112-01CT |
| TD | RECESSED PAPER TOWEL DISPENSER / TRASH | BOBRICK OR EQUAL | B362 |

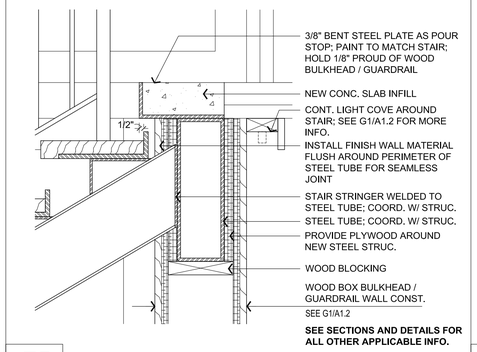
## C17 NOT USED

A1.2 SCALE: NO SCALE




## G1 DET. AT WOOD BOX GUARDRAIL / BULKHEAD

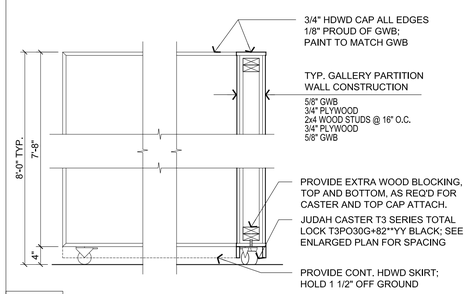
A1.2 SCALE: 1 1/2" = 1'-0"




## F5 DET. AT STAIR AT FIRST FLOOR

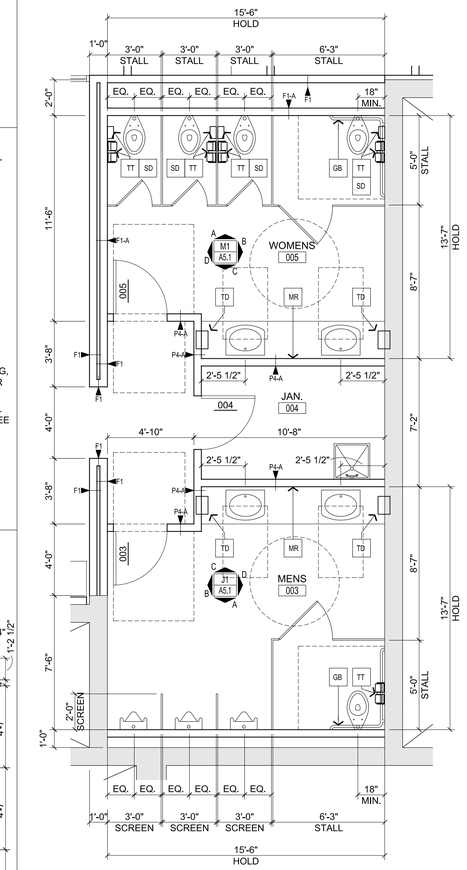
A1.2 SCALE: 1 1/2" = 1'-0"

**NOTE:**
GC TO PROVIDE (1) MOCKUP WALL FOR OWNER & ARCHITECT APPROVAL PRIOR TO CONST.



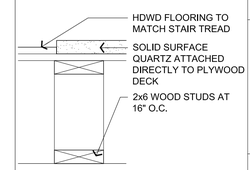

## F8 DETAIL AT TYP. GALLERY PARTITION

A1.2 SCALE: 1/4" = 1'-0"



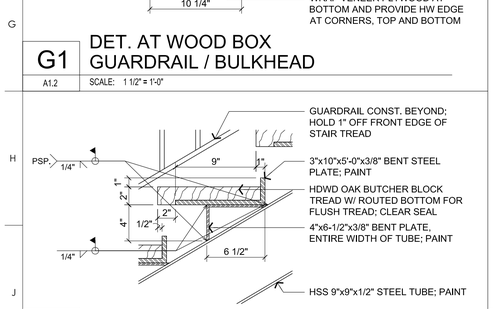

## J13 BASEMENT FLOOR RESTROOM ENLARGED PLAN

A1.2 SCALE: 1/4" = 1'-0"



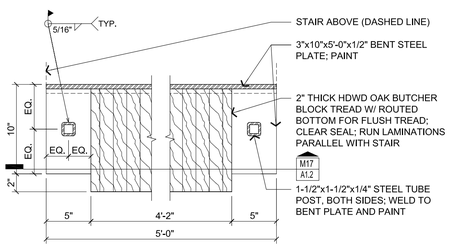

## F17 DETAIL AT SOLID SURFACE

A1.2 SCALE: 1 1/2" = 1'-0"



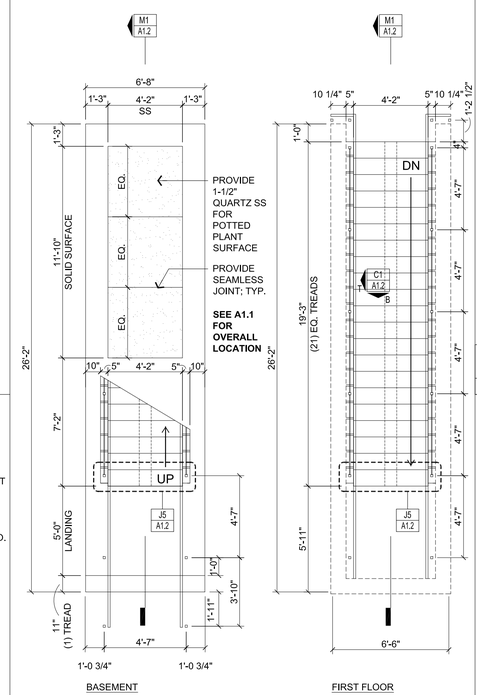

## J1 DET. AT STAIR TREAD

A1.2 SCALE: 1 1/2" = 1'-0"



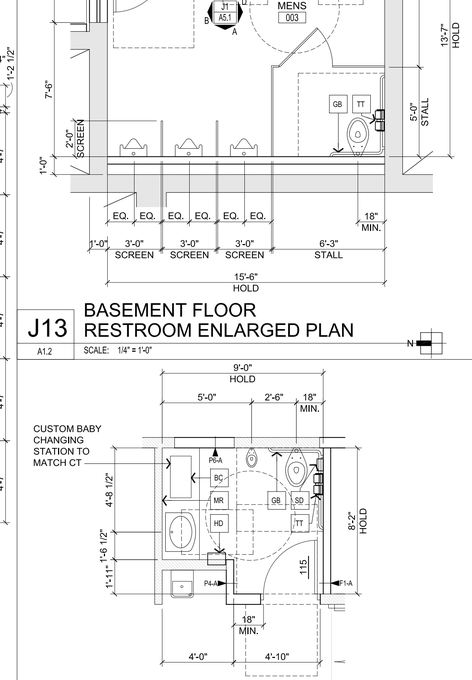

## J5 PLAN DET. AT STAIR TREAD

A1.2 SCALE: 1 1/2" = 1'-0"



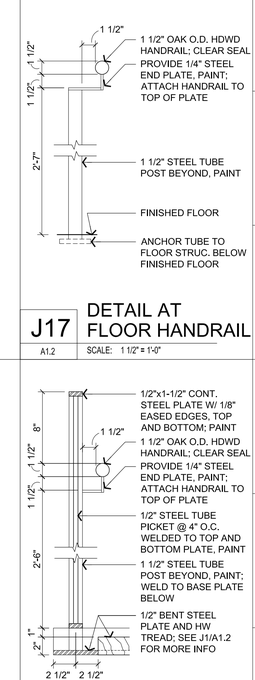

## M9 ENLARGED STAIR PLAN

A1.2 SCALE: 1/4" = 1'-0"



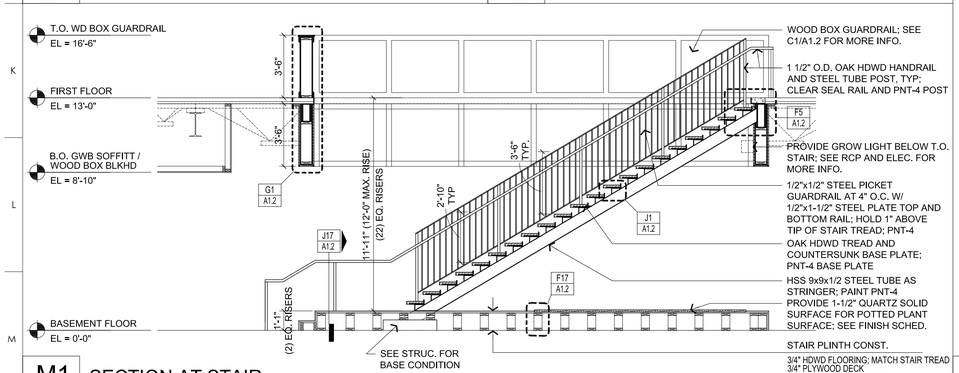

## M13 FIRST FLOOR RESTROOM ENLARGED PLAN

A1.2 SCALE: 1/4" = 1'-0"




## M17 DETAIL AT STAIR HANDRAIL

A1.2 SCALE: 1 1/2" = 1'-0"




## M1 SECTION AT STAIR

A1.2 SCALE: 1/4" = 1'-0"

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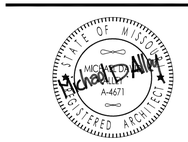


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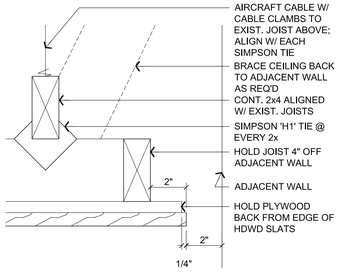
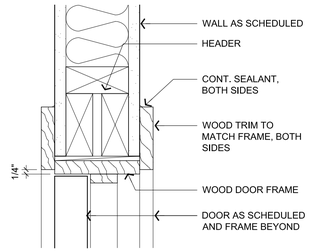
ENLARGED FLOOR PLANS AND STAIR SECTIONS AND DETAILS

# A1.2



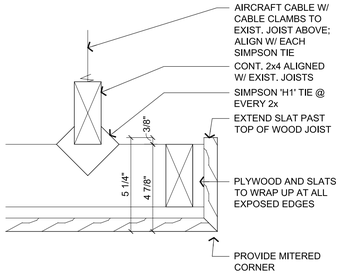

## C1 DET. @ WD CEILING EDGE - CAPTURED (A2)

A4.1 SCALE: 3" = 1'-0"



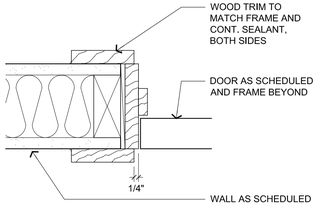

## C4 DETAIL AT TYPICAL DOOR HEAD

A4.1 SCALE: 3" = 1'-0"



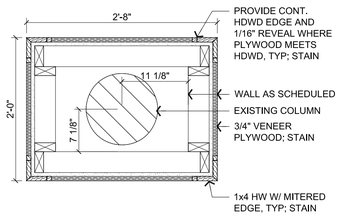

## F1 DET. @ WD CEILING EDGE - FLOATING (A2)

A4.1 SCALE: 3" = 1'-0"



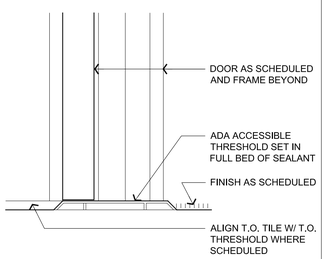

## F4 DETAIL AT TYPICAL DOOR JAMB

A4.1 SCALE: 3" = 1'-0"



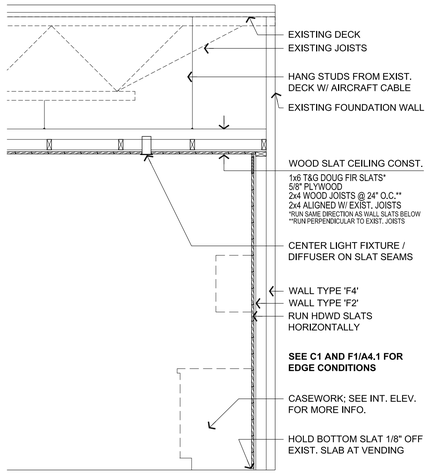

## J1 PLAN DETAIL AT COLUMN BOXOUT

A4.1 SCALE: 1" = 1'-0"



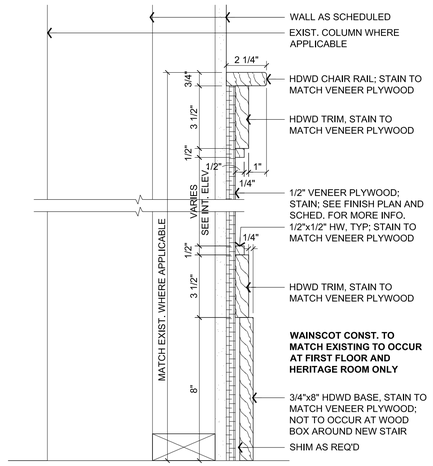

## J4 DETAIL AT TYPICAL DOOR SILL

A4.1 SCALE: 3" = 1'-0"



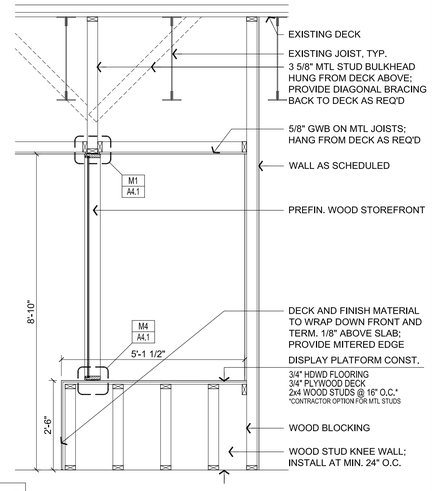

## D7 SECTION AT SLAT WALL / CEILING (A2)

A4.1 SCALE: 1/2" = 1'-0"



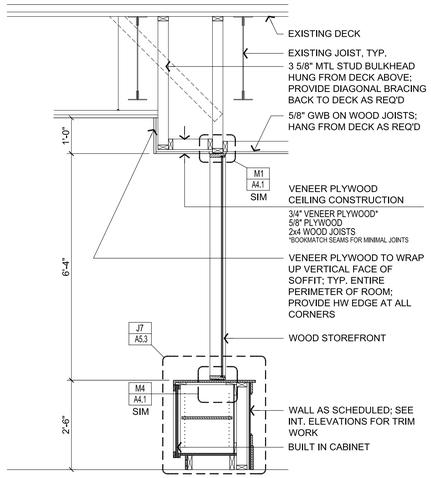

## D11 SEC. @ REPLICATED WAINSCOT FIRST FLOOR AND HERITAGE

A4.1 SCALE: 3" = 1'-0"



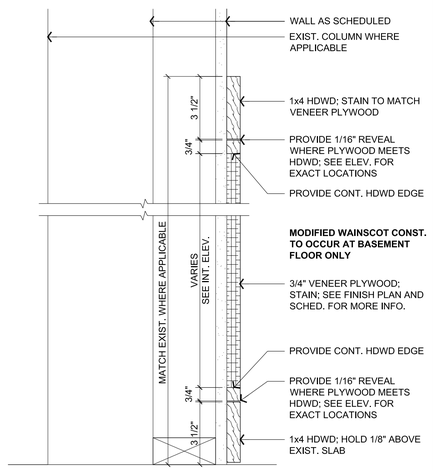

## D15 SECTION AT DISPLAY PLATFORM

A4.1 SCALE: 1/2" = 1'-0"



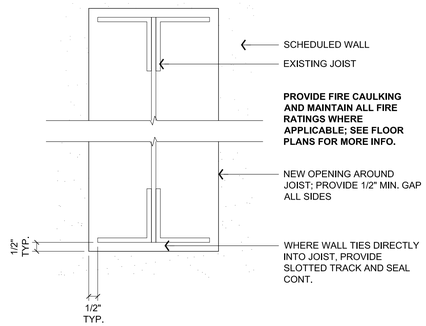

## J7 SECTION AT HERITAGE ROOM STOREFRONT

A4.1 SCALE: 1/2" = 1'-0"



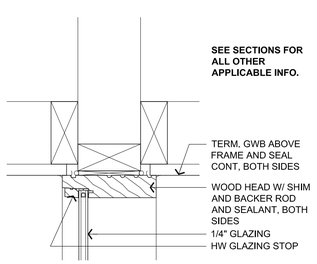

## J11 SEC. @ ADAPTED WAINSCOT BASEMENT (A3)

A4.1 SCALE: 3" = 1'-0"



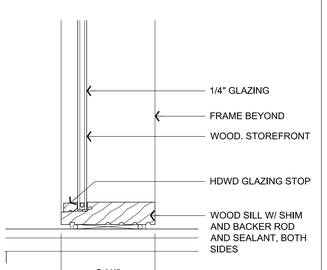

## J15 DET. @ EXIST. JOIST (TRANSITION FROM EXPOSED TO FINISHED CEILING)

A4.1 SCALE: 3" = 1'-0"



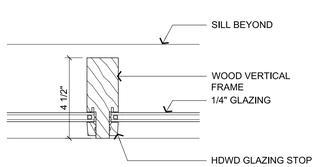

## M1 DETAIL AT STOREFRONT HEAD SIM. @ JAMB

A4.1 SCALE: 3" = 1'-0"



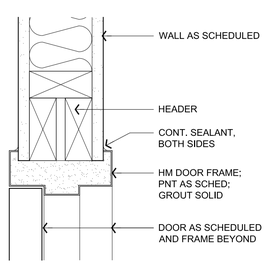

## M4 DETAIL AT STOREFRONT SILL

A4.1 SCALE: 3" = 1'-0"



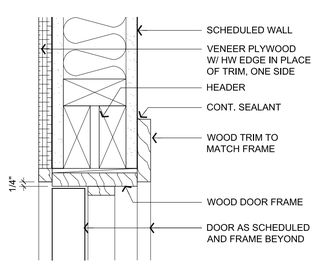

## M7 DETAIL AT STOREFRONT VERTICAL

A4.1 SCALE: 3" = 1'-0"




## M11 DET. @ HM DOOR HEAD (SIM. @ JAMB)

A4.1 SCALE: 3" = 1'-0"




## M15 DET. @ 'FRAMELESS' DOOR HEAD (SIM. @ JAMB)

A4.1 SCALE: 3" = 1'-0"

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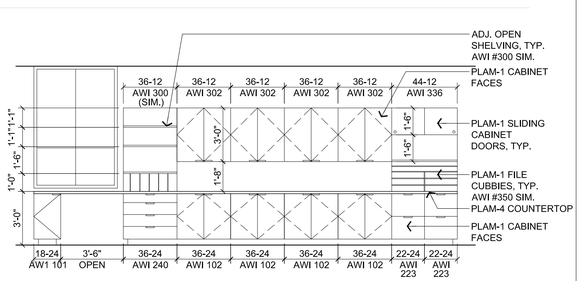
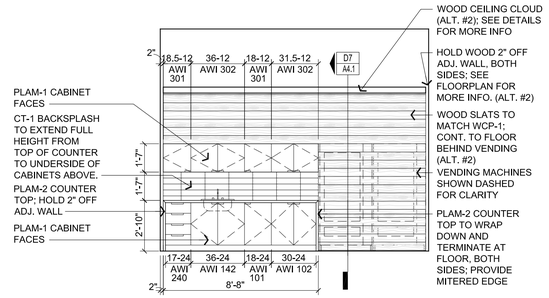
SECTIONS AND DETAILS

# A4.1




## C1 CASEWORK AT 'STAFF WORKROOM 133'

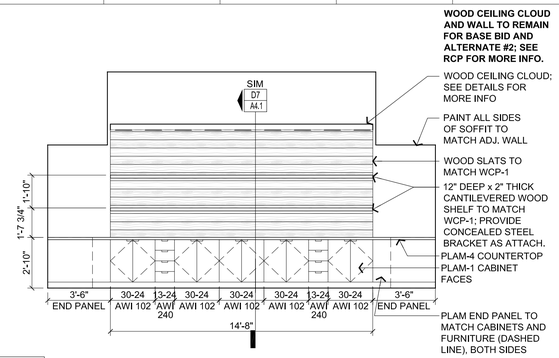
A5.1 SCALE: 1/4" = 1'-0"




## C6 CASEWORK AT 'LOBBY 001'

A2

A5.1 SCALE: 1/4" = 1'-0"




## C11 CASEWORK AT 'WORKROOM 029'

A2

A5.1 SCALE: 1/4" = 1'-0"

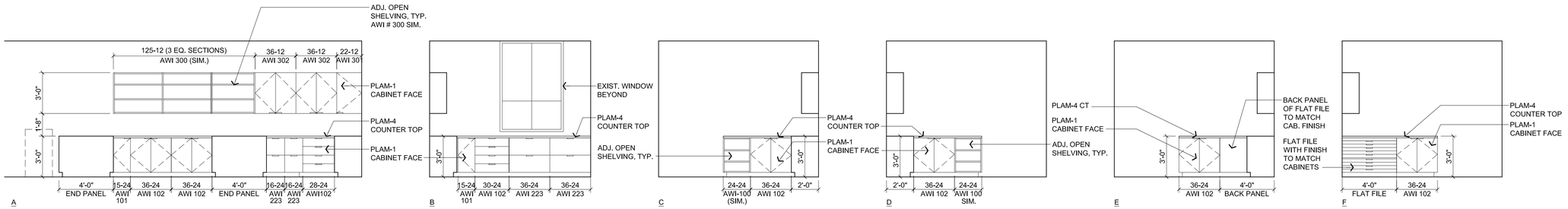
GENERAL NOTES:

1. ALL EXPOSED CABINET FACES TO BE FINISHED.
2. COUNTERTOPS AND CABINETS TO BE SECURED TO EACHOTHER AND TO THE ADJACENT WALL/FLOOR.
3. PROVIDE METAL TRIM AT ALL EXPOSED EDGES OF BACKSPLASH TILE.
4. ALL EXPOSED COUNTERTOP EDGES TO HAVE EASED EDGE.
5. ALL SHELVES WITHIN SOLID DOOR CABINETS TO BE FULLY ADJUSTABLE AND HAVE WHITE MELAMINE ON SIX SIDES. ALL SHELVES WITHIN OPEN OR GLASS DOOR CABINETS TO MATCH ADJACENT CABINET FINISH.
6. PROVIDE WHITE MELAMINE AT ALL DRAWER INTERIORS.
7. SEE DETAIL D11/A4.1 FOR MORE INFORMATION REGARDING WOOD PANELING CALLED OUT AS 'REPLICATED WAINSCOT'.
8. SEE DETAIL J11/A4.1 FOR MORE INFORMATION REGARDING WOOD PANELING CALLED OUT AS 'ADAPTED WAINSCOT'.
9. PROVIDE END PANELS TO MATCH CABINET FACES EVERYWHERE APPLICABLE.

**INT. ELEVATION KEY:**

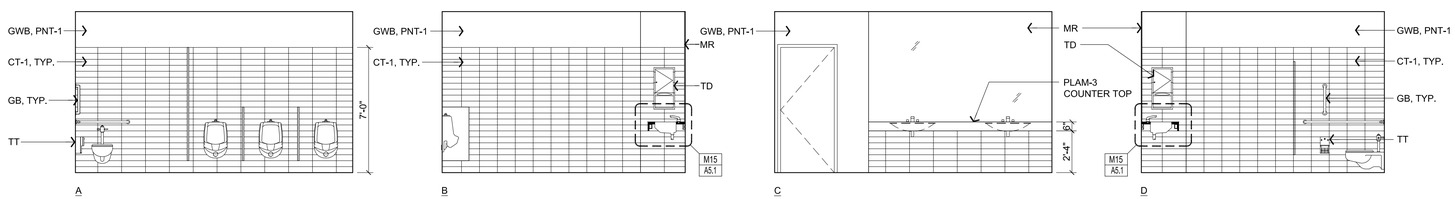
HARDWOOD; CLEAR SEAL / STAIN AS PER FINISH PLAN

VENEER PLYWOOD; CLEAR SEAL / STAIN AS PER FINISH PLAN



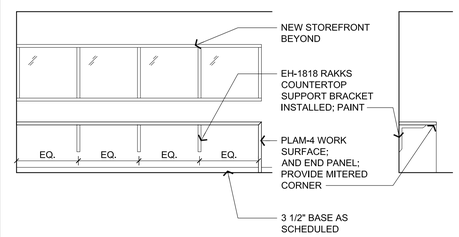

## F1 CASEWORK AT 'WORKROOM 139'

A5.1 SCALE: 1/4" = 1'-0"



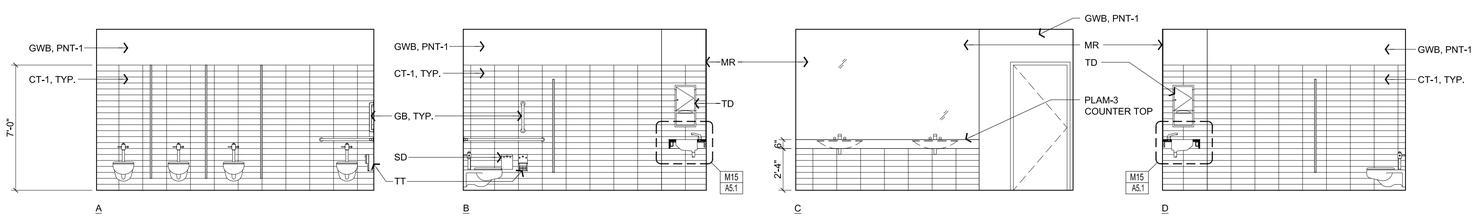

## J1 INTERIOR ELEVATIONS AT 'MEN'S 003'

A5.1 SCALE: 1/4" = 1'-0"



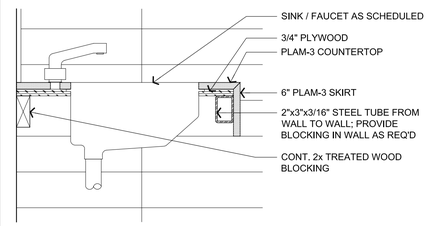

## J15 COUNTER AT TEEN ROOM 126

A5.1 SCALE: 1/4" = 1'-0"




## M1 INTERIOR ELEVATIONS AT 'WOMENS 005'

A5.1 SCALE: 1/4" = 1'-0"




## M15 DET. AT BATHROOM VANITY

A5.1 SCALE: 1 1/2" = 1'-0"

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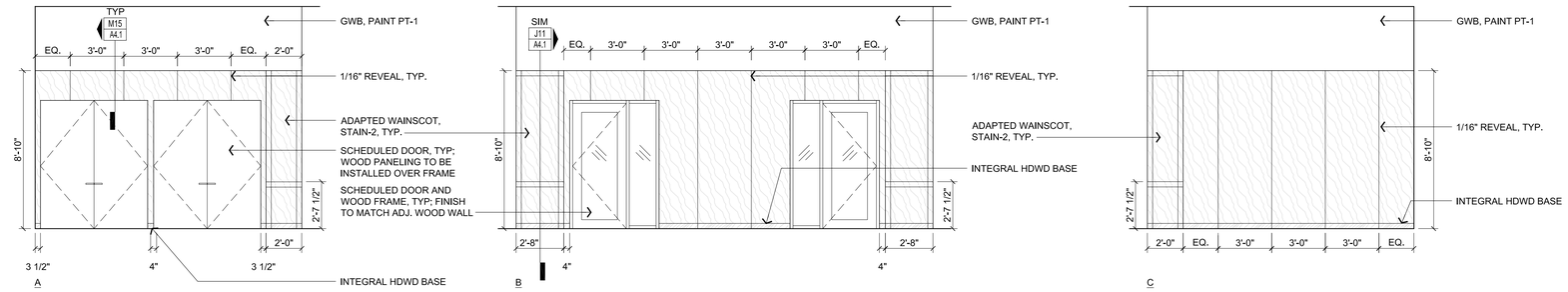
INTERIOR ELEVATIONS AND DETAILS

A5.1




## C1 INT. ELEV. @ 'STORAGE 002' & 'GROUP STUDY A 017' & 'GROUP STUDY B 018'

A5.2 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. ALL EXPOSED CABINET FACES TO BE FINISHED.
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3. PROVIDE METAL TRIM AT ALL EXPOSED EDGES OF BACKSPLASH TILE.
4. ALL EXPOSED COUNTERTOP EDGES TO HAVE EASED EDGE.
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6. PROVIDE WHITE MELAMINE AT ALL DRAWER INTERIORS.
7. SEE DETAIL D11/A4.1 FOR MORE INFORMATION REGARDING WOOD PANELING CALLED OUT AS 'REPLICATED WAINSCOT'.
8. SEE DETAIL J11/A4.1 FOR MORE INFORMATION REGARDING WOOD PANELING CALLED OUT AS 'ADAPTED WAINSCOT'.
9. PROVIDE END PANELS TO MATCH CABINET FACES EVERYWHERE APPLICABLE.

**INT. ELEVATION KEY:**

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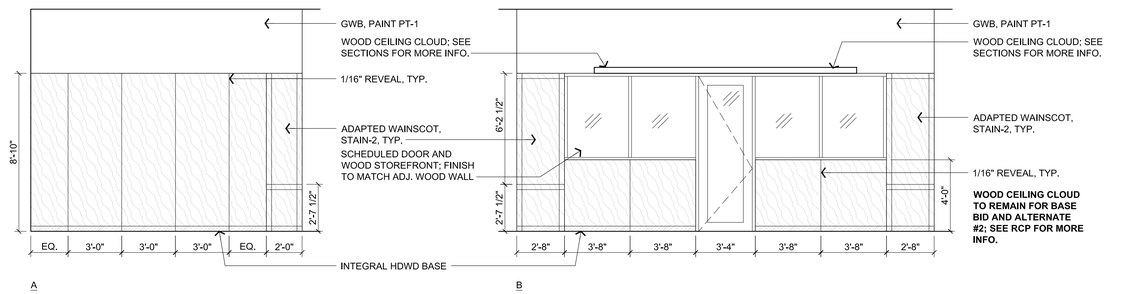
VENEER PLYWOOD; CLEAR SEAL / STAIN AS PER FINISH PLAN

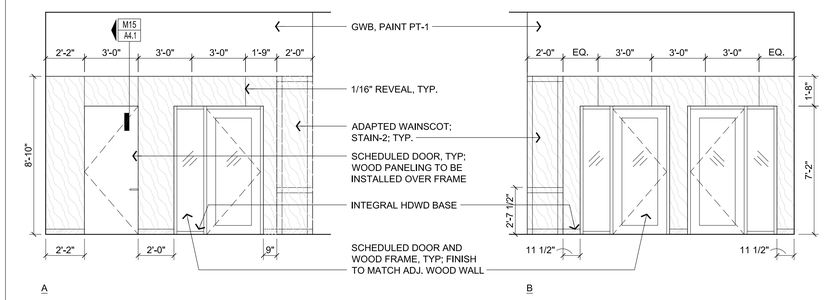



## F1 INT. ELEV. @ 'STAFF WORKROOM 029'

ELEV. TO BE SIM. AT SOUTH WALL

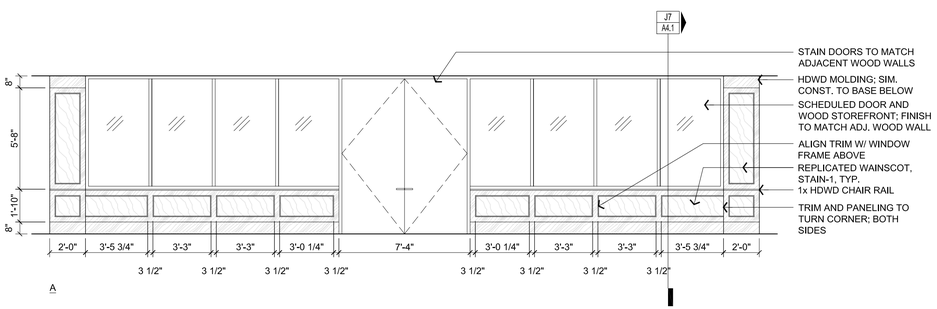
A2

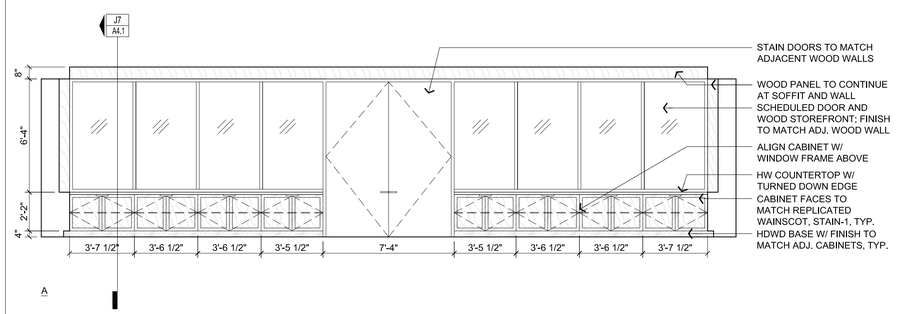
A5.2 SCALE: 1/4" = 1'-0"

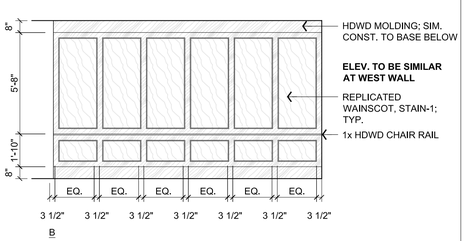



## F11 INT. ELEV. @ 'STUDY A 012' THROUGH 'STORAGE 016'

A5.2 SCALE: 1/4" = 1'-0"

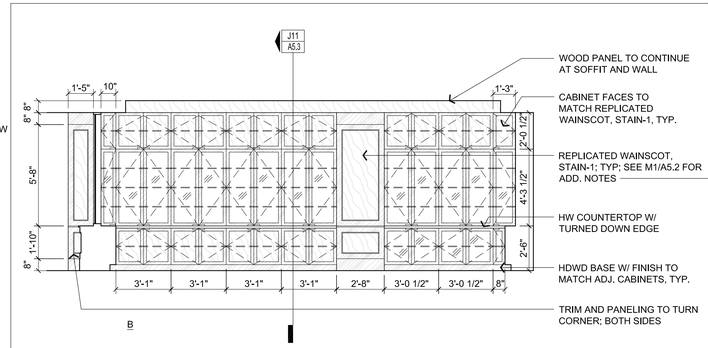


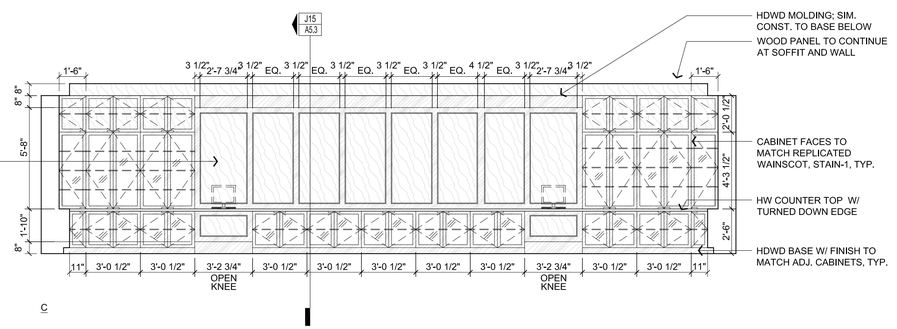




## M1 INT. ELEV. @ 'HERIT. ROOM 022' - EAST

A5.2 SCALE: 1/4" = 1'-0"




## M5 INT. ELEVATION @ 'HERITAGE ROOM 022' @ INT.

ELEV. TO BE CONSTRUCTED SIM. TO B AT EAST WALL

A5.2 SCALE: 1/4" = 1'-0"

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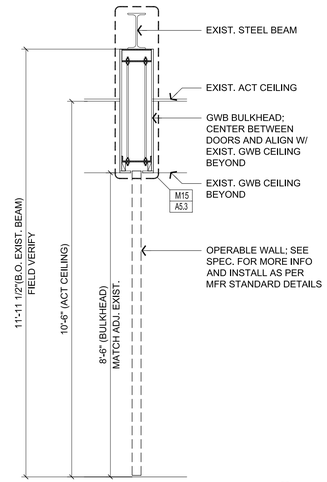
INTERIOR ELEVATIONS AND DETAILS

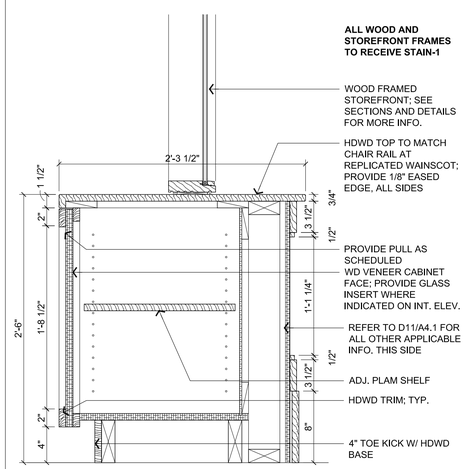
A5.2




## D7 SECTION AT OPERABLE WALL

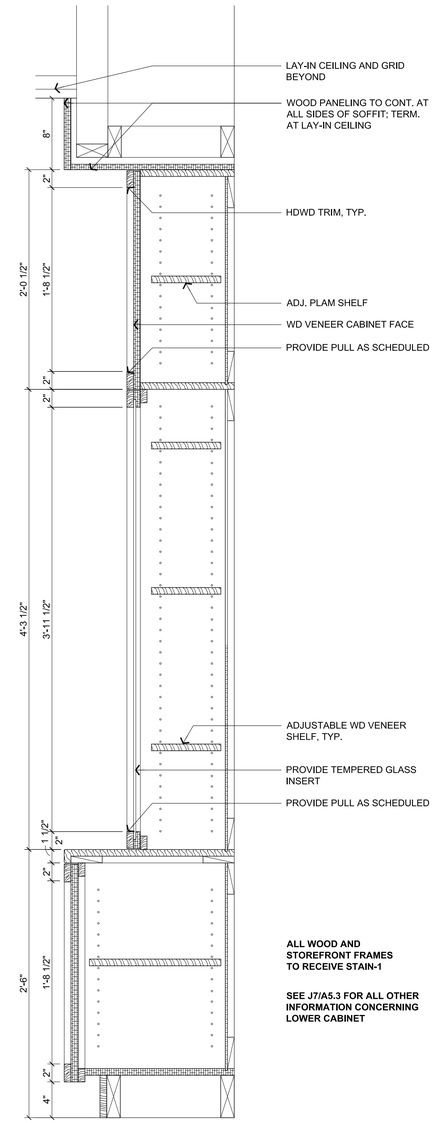
A5.3 SCALE: 1/2" = 1'-0"

A1



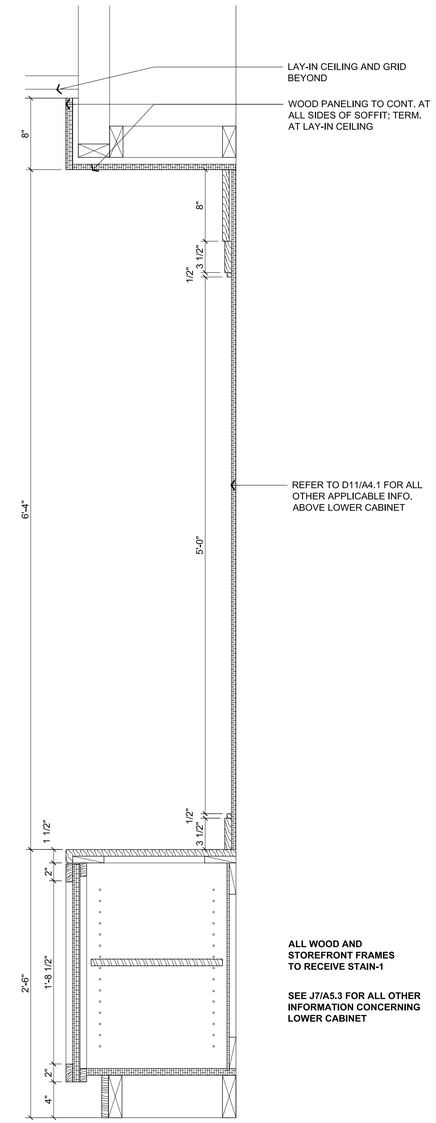

## J7 SECTION AT HERITAGE CASEWORK

A5.3 SCALE: 1 1/2" = 1'-0"



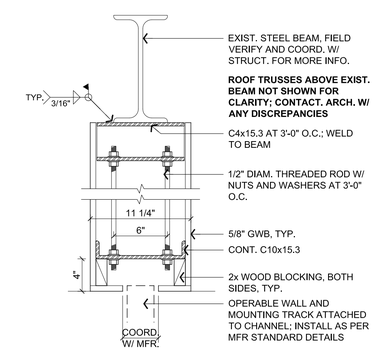

## J11 SECTION @ HERITAGE CASEWORK

A5.3 SCALE: 1 1/2" = 1'-0"




## J15 SECTION @ HERITAGE CASEWORK

A5.3 SCALE: 1 1/2" = 1'-0"




## M15 DETAIL AT OPERABLE WALL HEAD

A5.3 SCALE: 1 1/2" = 1'-0"

A1

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INTERIOR ELEVATIONS AND DETAILS

A5.3

# DOOR SCHEDULE

| MARK | FRAME | | | DOOR | | | | | HRDWRE SET # | RATING | DETAILS | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TYP | MATERIAL | FINISH | QTY. | SIZE | TYP | MATERIAL | FINISH | | | HEAD | JAMB | SILL | |
| 001 | -- | WOOD | PREFIN | 2 | 6'-0" x 8'-8" x 1-3/4" | A | WOOD | STAIN-2 | | -- | | | | |
| 002.1 | WD1 | WOOD | STAIN | 2 | 6'-0" x 7'-2" x 1-3/4" | B | WOOD | STAIN-2 | | -- | | | | 2 |
| 002.2 | WD1 | WOOD | STAIN | 2 | 6'-0" x 7'-2" x 1-3/4" | B | WOOD | STAIN-2 | | -- | | | | 2 |
| 003 | WD1 | WOOD | STAIN | 1 | 3'-0" x 7'-0" x 1-3/4" | B | WOOD | STAIN-2 | | -- | | | | |
| 004 | WD1 | WOOD | STAIN | 1 | 3'-0" x 7'-0" x 1-3/4" | B | WOOD | STAIN-2 | | -- | | | | |
| 005 | WD1 | WOOD | STAIN | 1 | 3'-0" x 7'-0" x 1-3/4" | B | WOOD | STAIN-2 | | -- | | | | |
| 009.1 | -- | -- | -- | 1 | 4'-0" x 8'-4" x 1-3/4" | B | WOOD | STAIN-2 | | -- | | | | 3 |
| 009.2 | -- | -- | -- | 1 | 4'-0" x 8'-4" x 1-3/4" | B | WOOD | STAIN-2 | | -- | | | | 3 |
| 010 | WD1 | WOOD | STAIN | 2 | 3'-0" x 7'-0" x 1-3/4" | B | WOOD | STAIN-2 | | -- | | | | |
| 011 | WD1 | WOOD | STAIN | 2 | 3'-0" x 7'-0" x 1-3/4" | B | WOOD | STAIN-2 | | -- | | | | |
| 012 | WD2 | WOOD | STAIN | 1 | 3'-0" x 7'-0" x 1-3/4" | C | WOOD | STAIN-2 | | -- | | | | |
| 013 | WD2 | WOOD | STAIN | 1 | 3'-0" x 7'-0" x 1-3/4" | C | WOOD | STAIN-2 | | -- | | | | |
| 014 | WD2 | WOOD | STAIN | 1 | 3'-0" x 7'-0" x 1-3/4" | C | WOOD | STAIN-2 | | -- | | | | |
| 015 | WD2 | WOOD | STAIN | 1 | 3'-0" x 7'-2" x 1-3/4" | C | WOOD | STAIN-2 | | -- | | | | |
| 016 | WD1 | WOOD | STAIN | 1 | 3'-0" x 7'-2" x 1-3/4" | B | WOOD | STAIN-2 | | -- | | | | 2 |
| 017 | WD2 | WOOD | STAIN | 1 | 3'-0" x 7'-0" x 1-3/4" | C | WOOD | STAIN-2 | | -- | | | | |
| 018 | WD2 | WOOD | STAIN | 1 | 3'-0" x 7'-0" x 1-3/4" | C | WOOD | STAIN-2 | | -- | | | | |
| 019 | WD1 | WOOD | STAIN | 1 | 3'-0" x 7'-0" x 1-3/4" | B | WOOD | STAIN-2 | | -- | | | | |
| 021 | WD1 | WOOD | STAIN | 1 | 3'-0" x 7'-0" x 1-3/4" | C | WOOD | STAIN-2 | | -- | | | | |
| 022 | -- | WOOD | PREFIN | 2 | 7'-0" x 8'-8" x 1-3/4" | A | WOOD | STAIN-1 | | -- | | | | |
| 023 | WD1 | WOOD | STAIN | 1 | 3'-0" x 7'-0" x 1-3/4" | B | WOOD | STAIN-2 | | -- | | | | |
| 025 | HM1 | HM | PNT | 1 | 3'-0" x 7'-0" x 1-3/4" | D | WOOD | STAIN-2 | | 1-HR | | | | |
| 025.2 | HM1 | HM | PNT | 1 | 3'-0" x 7'-0" x 1-3/4" | D | WOOD | STAIN-2 | | 1-HR | | | | |
| 026 | HM1 | HM | PNT | 2 | 6'-0" x 7'-0" x 1-3/4" | E | HM | PAINT-1 | | 1-HR | | | | |
| 029 | -- | WOOD | PREFIN | 1 | 3'-4" x 8'-8" x 1-3/4" | A | WOOD | STAIN-2 | | -- | | | | |
| | | | | | | | | | | | | | | |
| 115 | WD1 | WOOD | STAIN | 1 | 3'-0" x 7'-0" x 1-3/4" | B | WOOD | STAIN-1 | | -- | | | | |
| 133 | WD1 | WOOD | STAIN | 1 | 3'-0" x 7'-0" x 1-3/4" | C | WOOD | STAIN-1 | | -- | | | | |

## DOOR SCHEDULE NOTES

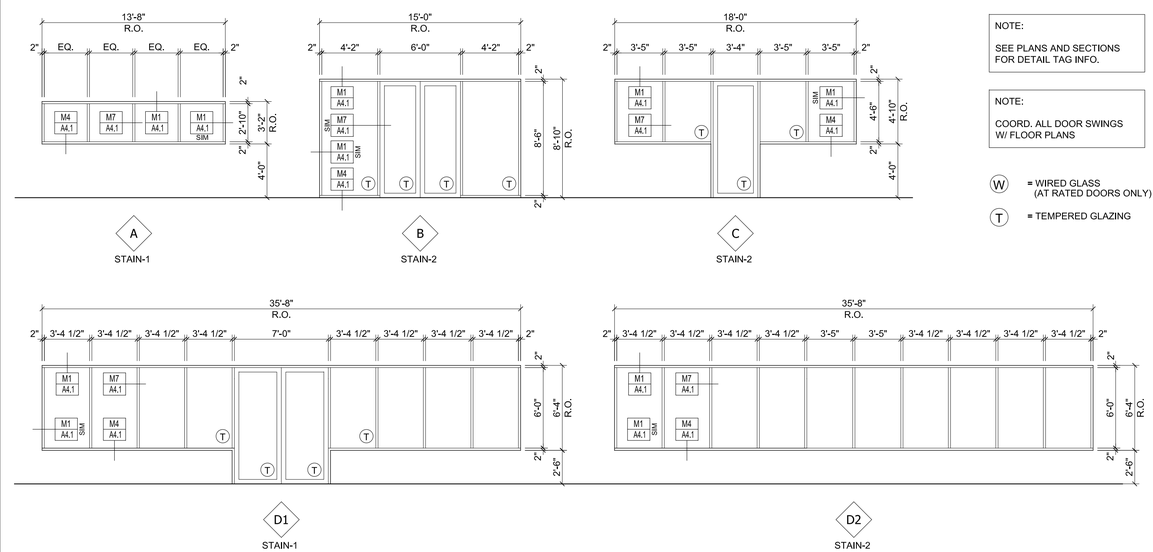
1. ALL THRESHOLDS TO BE INSTALLED IN FULL BED OF GROUT UNLESS OTHERWISE NOTED.
2. ALL DOOR HARDWARE TO HAVE SATIN CHROME FINISH, U.O.N.
3. ALL PAINTED DOORS AND FRAMES TO MATCH ADJACENT WALL, U.O.N.
4. ALL FIELD FINISHED WOOD DOORS ARE TO BE STAINED AND CLEAR SEALED; STAIN COLOR TO MATCH ADJACENT WOOD TRIM AND PANELING, U.O.N.; SEE FINISH SCHEDULE FOR MORE INFORMATION.
5. RELOCATE EXISTING DOORS WHERE POSSIBLE. COORDINATE FINAL LOCATIONS WITH ARCHITECT.

## REMARKS KEYED NOTES

1. PROVIDE DOOR SIGNAGE TYPE 'A' / 'B' / 'C' ADJACENT TO DOOR. COORDINATE NAME AND NUMBER WITH OWNER PRIOR TO FABRICATION.
2. 'FRAMELESS' DOOR; COORD. W/ INTERIOR ELEVATIONS AND DETAIL M15/A4.1.
3. PROVIDE BLOCKING AS REQUIRED; COORD. W/ DOOR HARDWARE.

## E9 DOOR SCHEDULE

A6.1 SCALE: NO SCALE




NOTE:

SEE PLANS AND SECTIONS FOR DETAIL TAG INFO.

NOTE:

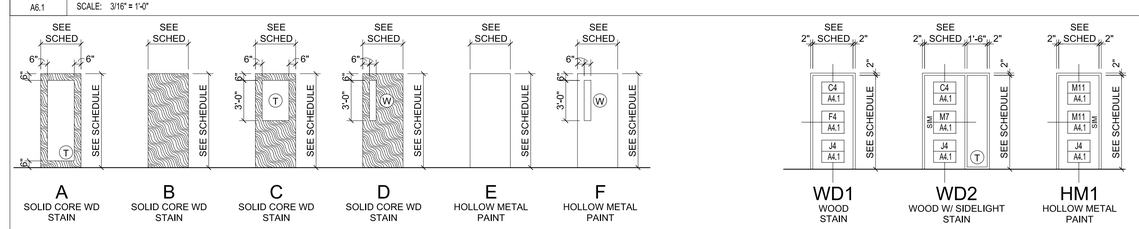
COORD. ALL DOOR SWINGS W/ FLOOR PLANS

(W) = WIRED GLASS (AT RATED DOORS ONLY)

(T) = TEMPERED GLAZING

## K9 INTERIOR STOREFRONTS

A6.1 SCALE: 3/16" = 1'-0"




## M9 DOOR AND FRAME TYPES

A6.1 SCALE: 3/16" = 1'-0"

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STATE OF MISSOURI
MICHAEL D. ALLEY
A-4671
REGISTERED ARCHITECT

| REVISION | DATE |
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PROJECT NUMBER: 12027

DATE: 11/15/2013


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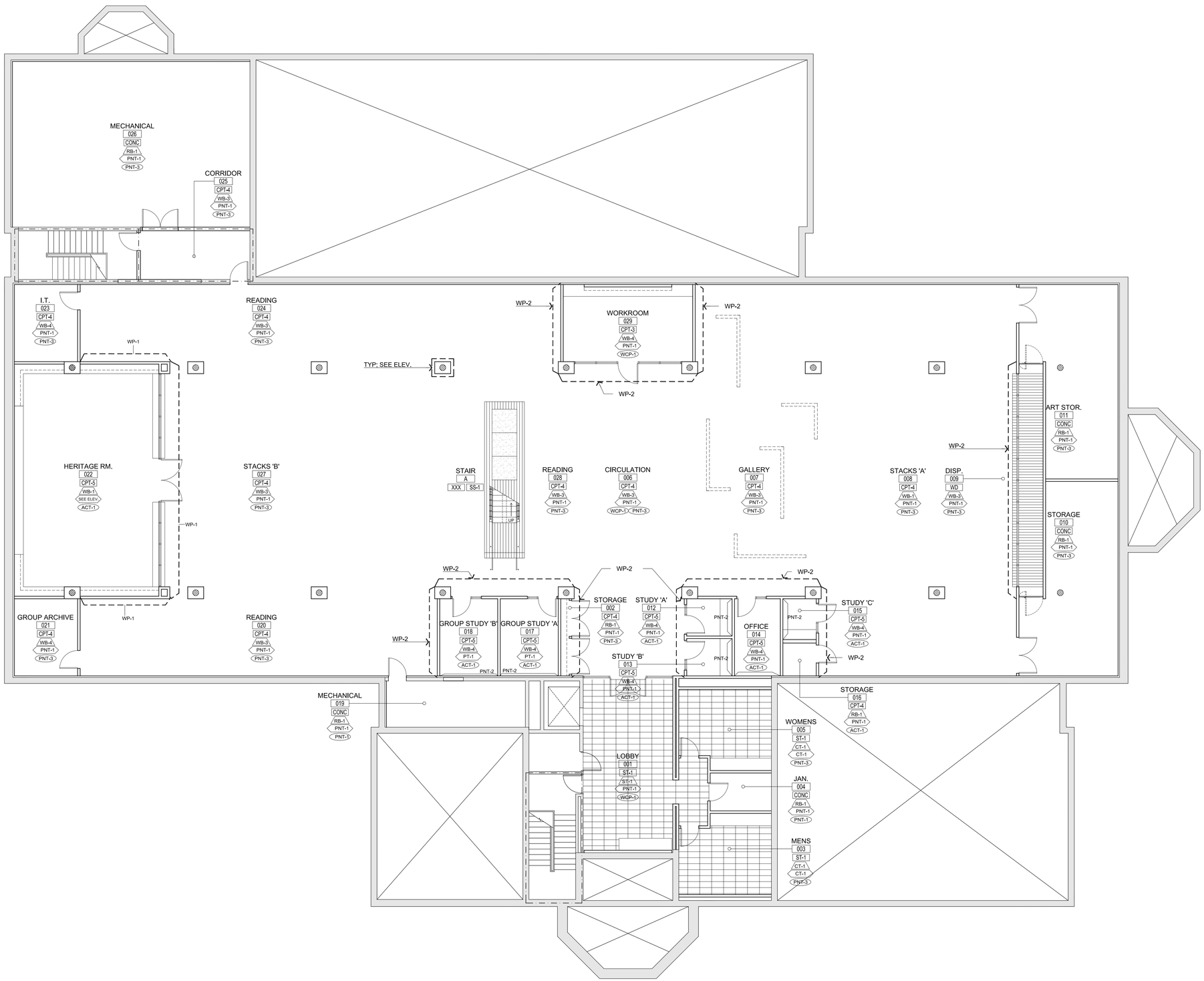
DOOR SCHEDULES AND NOTES, DOOR TYPES, FRAME TYPES, AND WINDOW TYPES

A6.1




M1 BASEMENT FLOOR FINISH PLAN

A6.2 SCALE: 1/8" = 1'-0"

## FINISHES KEY

ROOM — ROOM NAME
123 — ROOM NUMBER
CPT-1 — FLOORING
RB-1 — BASE
PT-1 — WALLS
PT-3 — CEILING

## FINISH PLAN GENERAL NOTES

1. ALL JOINTS TO BE CAULKED AT DISSIMILAR MATERIALS INCLUDING, BUT NOT LIMITED TO, DOORS FRAMES TO WALLS, BACKSPLASH TO WALL, AND MULLION COVERS TO WALLS. CONTACT ARCHITECT TO SELECT CAULK COLOR(S).
2. REFER TO INTERIOR ELEVATIONS FOR SPECIAL CONDITIONS AND CLARIFICATIONS CONCERNING MATERIAL, FINISH, AND COLOR LOCATIONS.
3. PROVIDE PAINT AT ALL WALLS AS SPECIFIED
4. CARPET PATTERNS AND ACCENTS FOR REFERENCE ONLY. CARPET BY OWNER. CARPET PATTERNS TO BE COORDINATED WITH OWNER.

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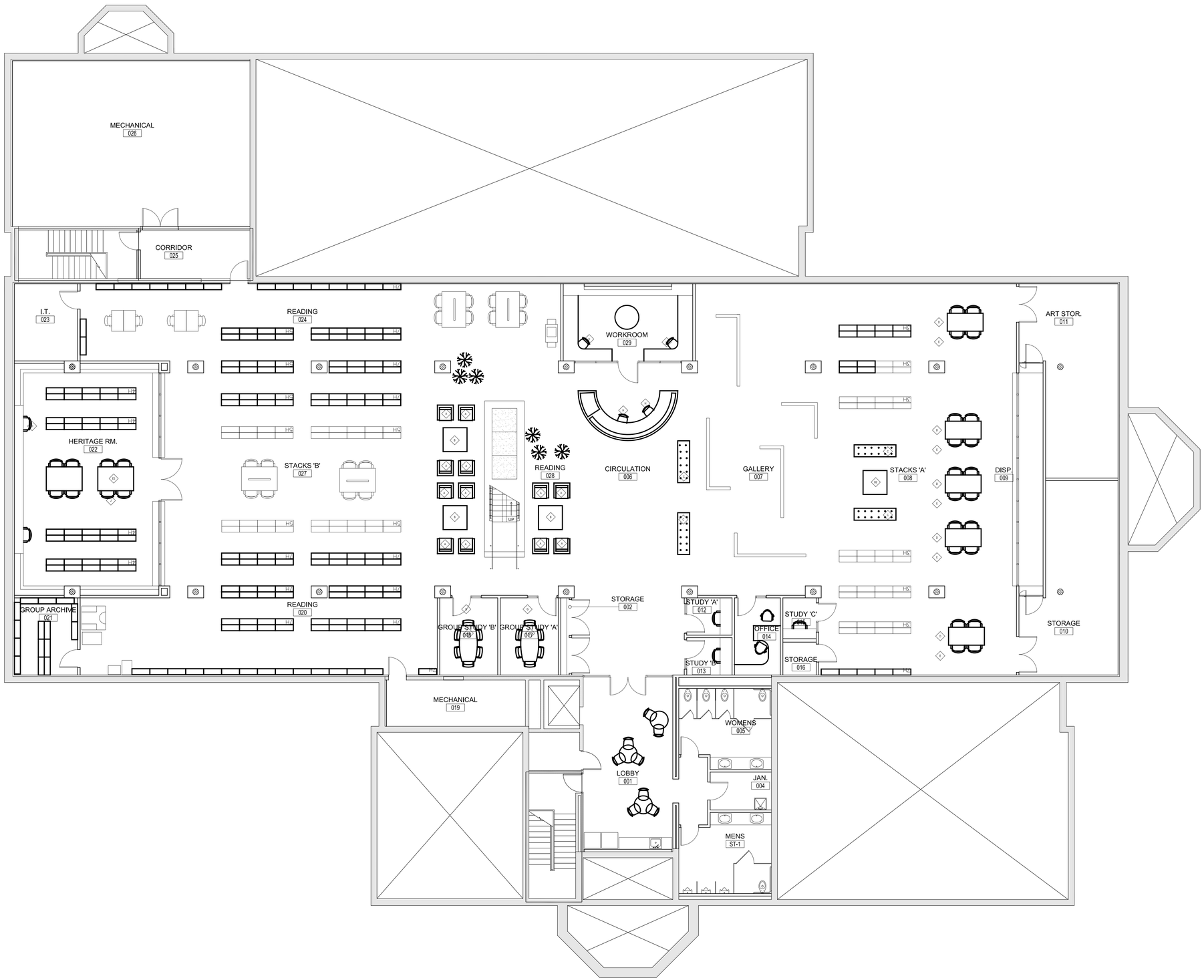
BASEMENT FLOOR FINISH PLAN

A6.2




FURNITURE PLAN IS FOR REFERENCE ONLY; FURNITURE IS NOT IN CONTRACT

M1 BASEMENT FLOOR FURNITURE PLAN

A6.3 SCALE: 1/8" = 1'-0"

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STATE OF MISSOURI
MICHAEL D. ALLEY
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REGISTERED ARCHITECT

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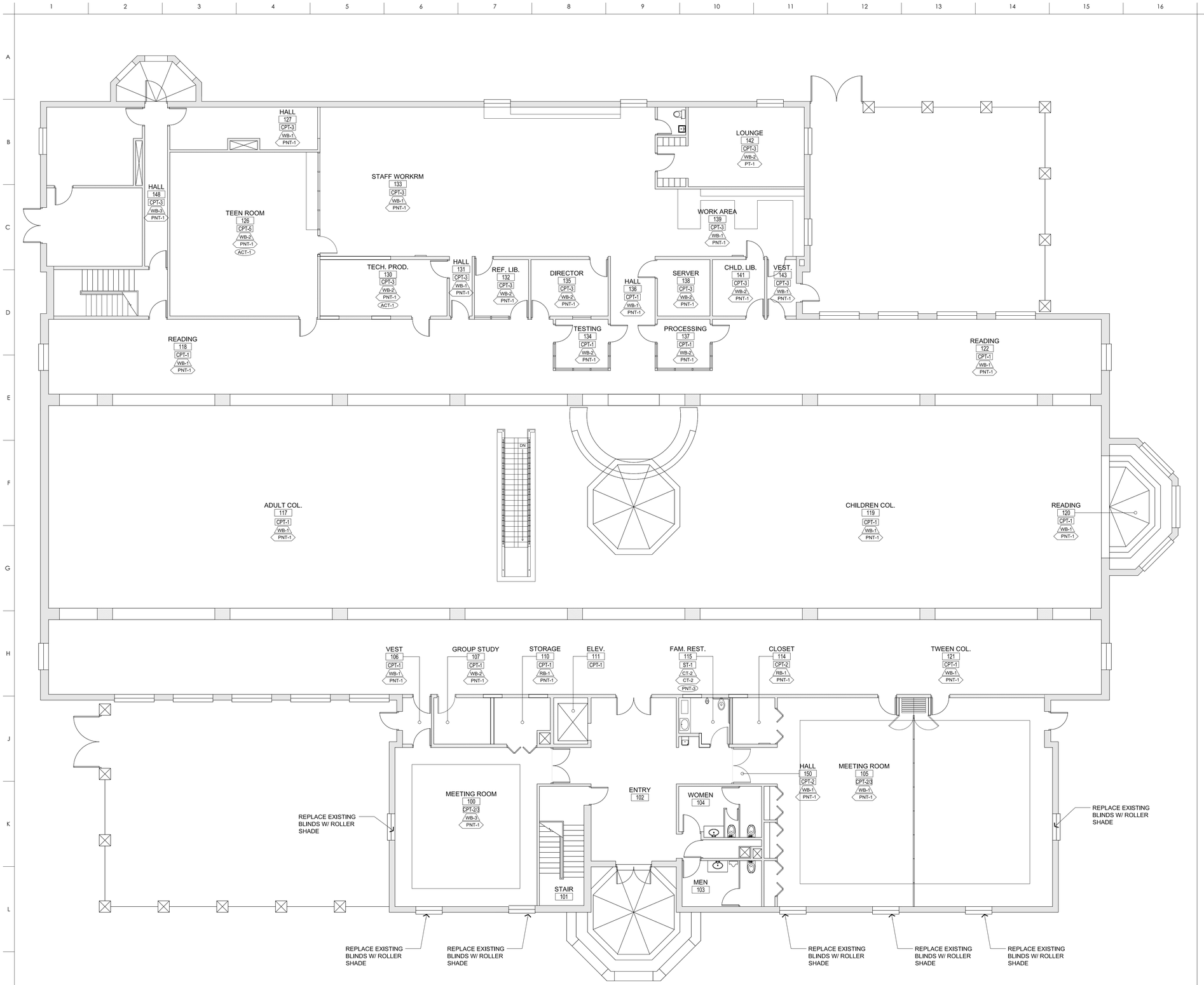
BASEMENT FLOOR FURNITURE PLAN

A6.3




M1 FIRST FLOOR FINISH PLAN

A6.4 SCALE: 1/8" = 1'-0"

## FINISHES KEY

ROOM
123
CPT-1
RB-1
PT-1
PT-3

- ROOM NAME
- ROOM NUMBER
- FLOORING
- BASE
- WALLS
- CEILING

## FINISH PLAN GENERAL NOTES

1. ALL JOINTS TO BE CAULKED AT DISSIMILAR MATERIALS INCLUDING, BUT NOT LIMITED TO, DOORS FRAMES TO WALLS, BACKSPLASH TO WALL, AND MULLION COVERS TO WALLS. CONTACT ARCHITECT TO SELECT CAULK COLOR(S).
2. REFER TO INTERIOR ELEVATIONS FOR SPECIAL CONDITIONS AND CLARIFICATIONS CONCERNING MATERIAL, FINISH, AND COLOR LOCATIONS.
3. PROVIDE PAINT AT ALL WALLS AS SPECIFIED
4. CARPET PATTERNS AND ACCENTS FOR REFERENCE ONLY. CARPET BY OWNER. CARPET PATTERNS TO BE COORDINATED WITH OWNER.

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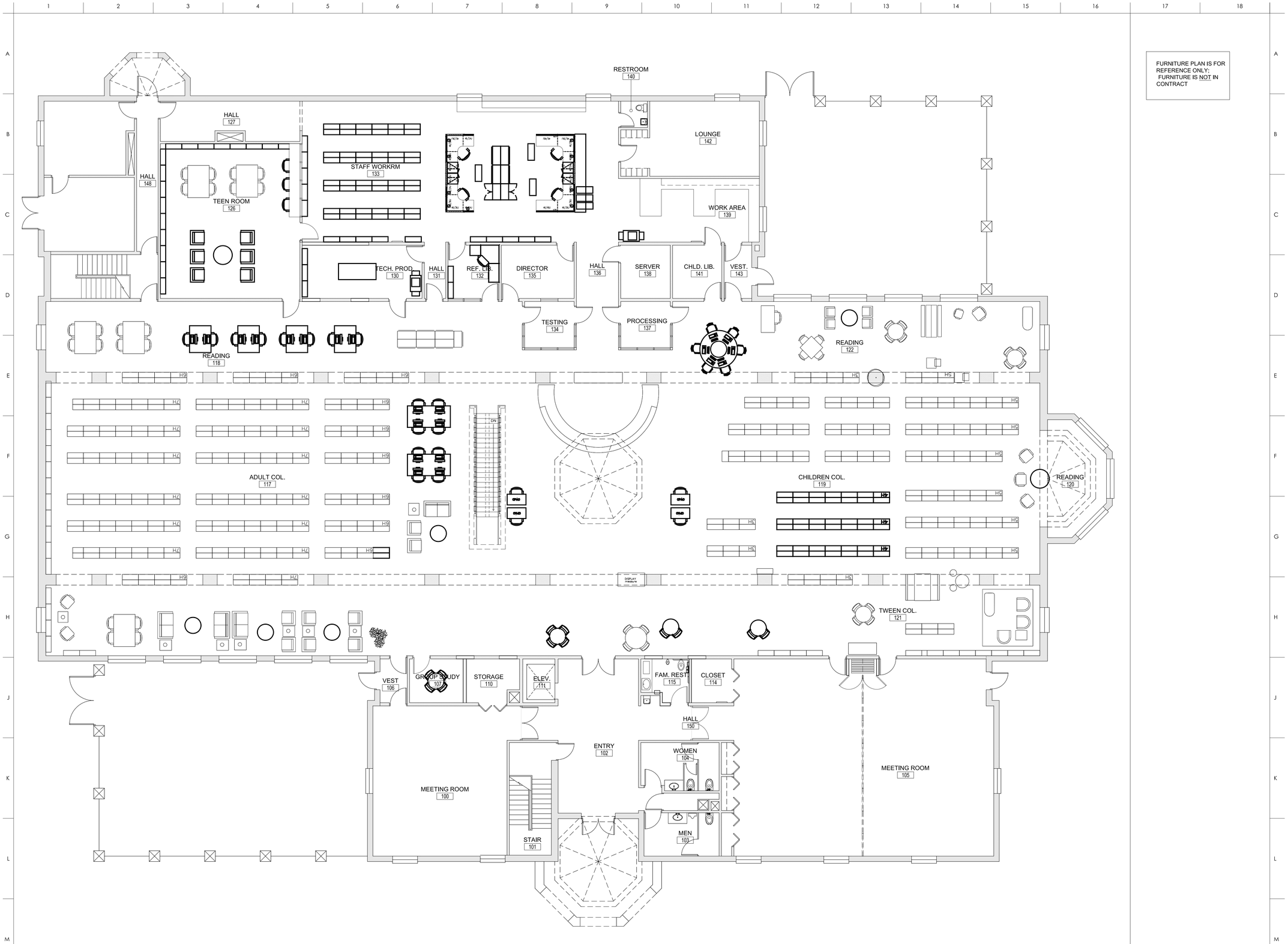
FIRST FLOOR FINISH PLAN

A6.4

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STATE OF MISSOURI
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FIRST FLOOR FURNITURE PLAN

A6.5

M1 FIRST FLOOR FURNITURE PLAN
A6.5 SCALE: 1/8" = 1'-0"

# FINISH LEGEND

| KEY | DESCRIPTION | MFR | STYLE | COLOR | REMARKS |
|---|---|---|---|---|---|
| **CARPET** | | | | | |
| CPT-1 | CARPET TILE LEVEL 1 FIELD | BY OWNER | | | |
| CPT-2 | CARPET TILE LEVEL 1 ACCENT | BY OWNER | | | |
| CPT-3 | CARPET TILE LEVEL 1 ACCENT | BY OWNER | | | |
| CPT-4 | CARPET TILE BASEMENT LEVEL FIELD | BY OWNER | | | |
| CPT-5 | CARPET TILE BASEMENT LEVEL ACCENT | BY OWNER | | | |
| **CERAMIC TILE** | | | | | |
| CT-1 | RESTROOM WALL CERAMIC TILE | DALTILE | PLAZA NOVA | WHITE IMAGE PN94 | 6" X 24" MONOLITHIC INSTALL |
| CT-2 | RESTROOM WALL CERAMIC TILE | FLORIDA TILE | MATTE GLAZE | FRENCH PROVINCIAL 702 | 6" X 6" FINISH TO MATCH EXISTNG |
| **PAINT** | | | | | |
| PNT-1 | GENERAL WALL PAINT | SHERWIN WILLIAMS | N/A | 7015 REPOSE GRAY | EGGSHELL |
| PNT-2 | ACCENT PAINT | SHERWIN WILLIAMS | N/A | 6212 QUIETUDE | EGGSHELL |
| PNT-3 | EXPOSED & GWB CEILING PAINT | SHERWIN WILLIAMS | N/A | 7018 DOVETAIL | FLAT |
| PNT-4 | STEEL AT NEW STAIR PAINT | SHERWIN WILLIAMS | N/A | 7069 IRON ORE | FLAT |
| **PLASTIC LAMINATE** | | | | | |
| PLAM-1 | CABINET FRONTS | PIONITE | | TAJ TEAK WT741 | |
| PLAM-2 | KITCHENETTE COUNTERTOPS | PIONITE | | VANA WF131 | |
| PLAM-3 | RESTROOM COUNTERTOPS | NEVAMAR | | WILD OATS MATRIX MR7002T | |
| PLAM-4 | WORKROOM COUNTERTOPS | PIONITE | | VANA WF131 | |
| **STONE** | | | | | |
| ST-1 | SLATE | HILLTOP SLATE INC. | | SEA GREEN | FINISH TO MATCH EXISTING |
| ST-2 | QUARTZ SURFACE | CAMBRIA | | NEWPORT | |
| **RUBBER BASE** | | | | | |
| RB-1 | JOHNSONITE | JOHNSONITE | 4 1/2" TIGHTLOCK | 63 BURNT UMBER | |
| **WOOD BASE** | | | | | |
| WD-1 | WOOD BASE | - | 8" MEDIUM OAK | OAK | FINISH TO MATCH EXISTING |
| WD-2 | WOOD BASE | | 5" MEDIUM OAK | OAK | FINISH TO MATCH EXISTING |
| WD-3 | WOOD BASE | | 8" LIGHT OAK | OAK | SW3117 GOLDEN OAK |
| WD-4 | WOOD BASE | | 5" LIGHT OAK | OAK | SW3117 GOLDEN OAK |
| **WOOD PANELING** | | | | | |
| WDW-1 | WOOD PANELING | - | MEDIUM OAK | OAK | FINISH TO MATCH EXISTING |
| WDW-2 | WOOD PANELING | - | LIGHT OAK | OAK | SW 3117 GOLDEN OAK |
| **WOOD TRIM** | | | | | |
| HDWD | HARDWOOD TRIM | - | TRIM | OAK | FINISH TO MATCH EXISTING |

## ROOM FINISH SCHEDULE GENERAL NOTES:

1. ALL JOINTS ARE TO BE CAULKED AT DISSIMILAR MATERIALS INCLUDING, BUT NOT LIMITED TO, DOORS FRAMES TO WALLS, BACKSPLASH TO WALL, AND MULLION COVERS TO WALLS
2. PAINT ALL EXPOSED FACES ON GWB BULKHEADS AND SOFFITS PNT-1
3. REFER TO INTERIOR ELEVATIONS FOR SPECIAL CONDITIONS AND CLARIFICATIONS CONCERNING MATERIAL, FINISH, AND COLOR LOCATIONS
4. PROVIDE METAL EDGE AT ALL TILE TERMINATIONS
5. PROVIDE TRANSITION STRIPS AT ALL DISSIMILAR MATERIALS
6. CARPET TYPES AND LOCATIONS ARE FOR REFERENCE ONLY; CARPET TO BE PROVIDED BY OWNER; ACTUAL NUMBER OF STYLES / MANUFACTURERS MAY VARY.

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STATE OF MISSOURI
MICHAEL D. ALLEY
A-4671
REGISTERED ARCHITECT

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DATE: 11/15/2013


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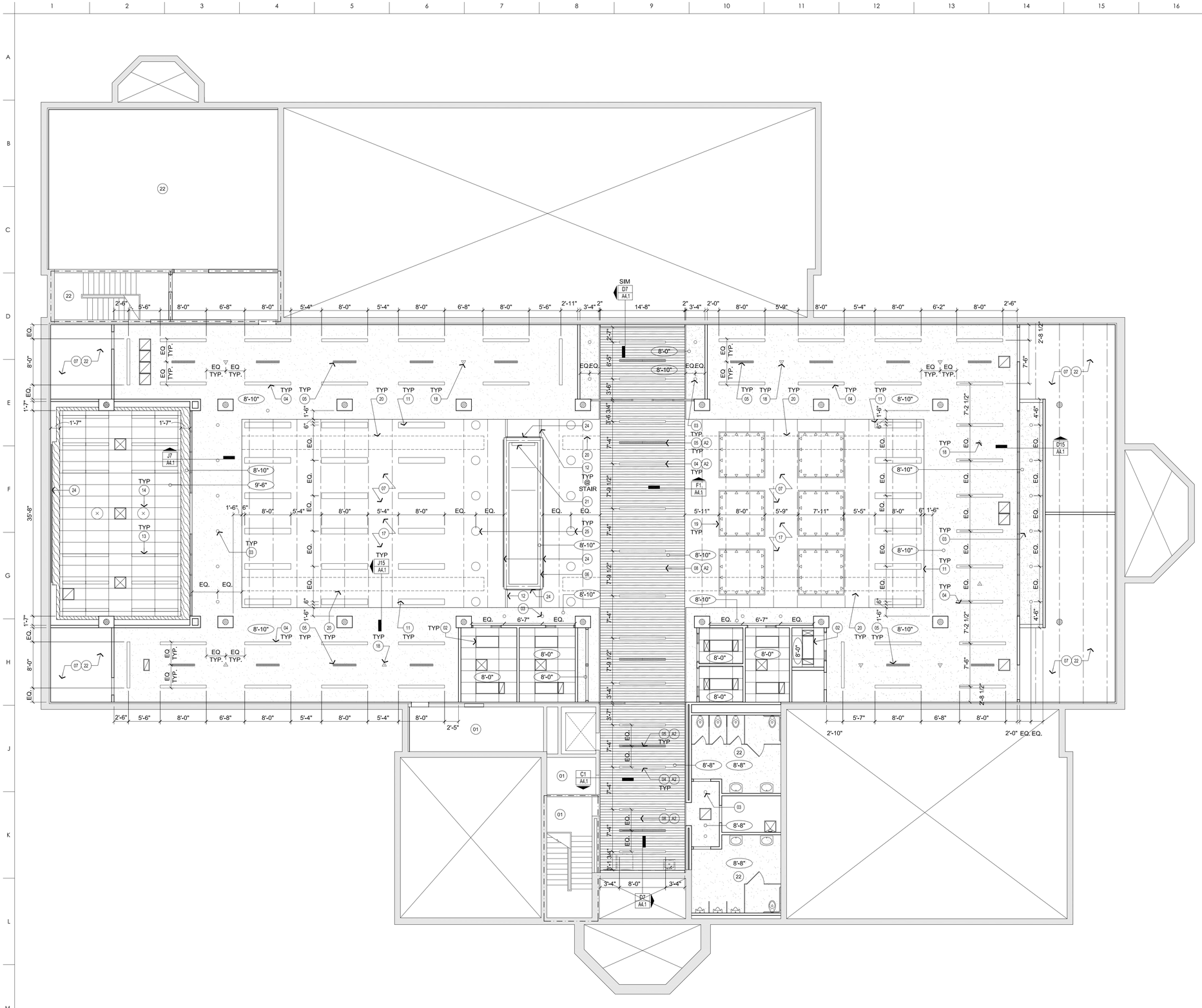
ROOM FINISH LEGEND

A6.6




## M1 BASEMENT RC PLAN - BASE BID (A2)

A7.0a SCALE: 1/8" = 1'-0"

GENERAL RC PLAN NOTES:

1. ALL WALLS TO CONTINUE TO BOTTOM OF EXISTING DECK ABOVE UNLESS OTHERWISE NOTED. WHERE APPLICABLE, CONSTRUCT WALLS AROUND EXISTING STEEL JOISTS AND PROVIDE 1/2" MIN. GAP W/ SLOTTED TRACK. SEE DET. J15/A4.1 FOR MORE INFO.
2. ALL CEILING MOUNTED ITEMS TO BE CENTERED IN SPACE, U.O.N.
3. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE SCHEDULE.
4. ALL LIGHT FIXTURES TO ALIGN WITH ADJACENT LIGHT FIXTURE ROWS / GROUPS UNLESS OTHERWISE NOTED.

RCP SYMBOLS

- NEW T&G WOOD CEILING; CLEAR SEAL ALL SIDES
- NEW VENEER PLYWOOD CEILING; BOOKMATCH FOR MIN. JOINT
- NEW GWB CEILING; PAINT AS PER FINISH SCHEDULE
- NEW 2x4 CEILING GRID; PAINT AS PER FINISH SCHEDULE
- SUPPLY / RETURN AIR; SEE MECHANICAL
- XX'-0" CEILING HEIGHT

KEYED PLAN NOTES:

01. NO WORK TO BE DONE IN THIS AREA
02. NEW 2x4 FLORESCENT LIGHT FIXTURE
03. NEW CAN LIGHT
04. NEW STRIP FLORESCENT LIGHT FIXTURE; CENTER ON JOINTS AND RECESS IN WOOD CEILING; HANG AT 8'-8" A.F.F. IN GWB CEILING
05. NEW MECHANICAL SLOT DIFFUSER
06. WOOD BOX BULKHEAD AROUND STAIR; SEE SEC. AND DET. FOR MORE INFO; SEE C1/A1.2 FOR ELEVATIONS
07. EXPOSED STRUCTURE W/ B.O. JOISTS AT 10' - 4" (+/-) A.F.F.
08. NEW 1x6 T&G DOUG FIR WOOD CEILING CLOUD HELD 2" OFF 'LOBBY 001' WALLS; CLEAR SEAL ALL SIDES; SEE SECTIONS FOR MORE INFORMATION; COORD. JOINTS WITH LIGHT FIXTURE SPACING
09. NEW EXPOSED SPRINKLER PIPING IN THIS AREA; PAINT TO MATCH EXISTING CEILING AND COORDINATE ALL LOCATIONS WITH ARCHITECT PRIOR TO CONSTRUCTION
10. ALIGN
11. NEW 1x8 PENDANT LIGHT FIXTURE; MOUNT AT 8'-8" A.F.F.
12. NEW STEEL BEAM FRAME AROUND NEW STAIR OPENING; REMOVE EXIST. JOISTS IN THIS AREA AND REPLACE W/ BEAMS; RUN E-W PERIMETER BEAMS BETWEEN EXIST. COLUMN GRID; PAINT ALL EXPOSED BEAMS TO MATCH ADJACENT CEILING
13. NEW 6"x4' FLORESCENT LIGHT FIXTURE; LOCATE IN CEILING TILE AS SHOWN
14. NEW DECORATIVE PENDANT LIGHT FIXTURE; CENTER IN CEILING TILE
15. NEW OPERABLE PARTITION; INSTALL AS PER MFR STANDARD DETAILS; SEE DET. FOR MORE INFO.
16. EXISTING DUCTWORK TO BE REUSED IN THIS LOCATION, BUT LIGHTS AND DIFFUSERS ARE TO BE REPLACED; LOCATIONS SHOWN ARE APPROXIMATE; CONTACT ARCHITECT W/ DISCREPANCIES
17. PROVIDE 2'-0" x 4'-0" TECTUM ACOUST. PANELS, OR EQUIVALENT, IN THIS AREA; LOCATE TIGHT TO B.O. DECK, IN BETWEEN EVERY OTHER JOIST, AND SPACE AT 8'-0" O.C.; PAINT TO MATCH CEILING
18. AUTOMATIC SENSOR; COORD. W/ MEP AND CENTER BETWEEN ADJ. MECH. AND ELEC. ELEMENTS
19. TRACK LIGHTING; COORD. W/ MEP
20. NEW EXPOSED DUCT (DASHED LINE); MOUNT TIGHT TO STRUCTURE AND PAINT; SEE MECH.
21. GROW LIGHT; SEE ELEC.
22. SEE MEP FOR ALL WORK THIS AREA
23. NEW BULKHEAD TO MATCH OPPOSITE EXISTING DOOR OPENING AT STAIR
24. WALL WASH LIGHT FIXTURE IN COVE; SEE G1/A1.2 FOR MORE INFO. (SIM. CONSTRUCTION @ HERITAGE ROOM)
25. PENDANT LIGHT FIXTURE; SEE ELEC.

PROVIDE RATED CEILING

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MICHAEL D. ALLEY
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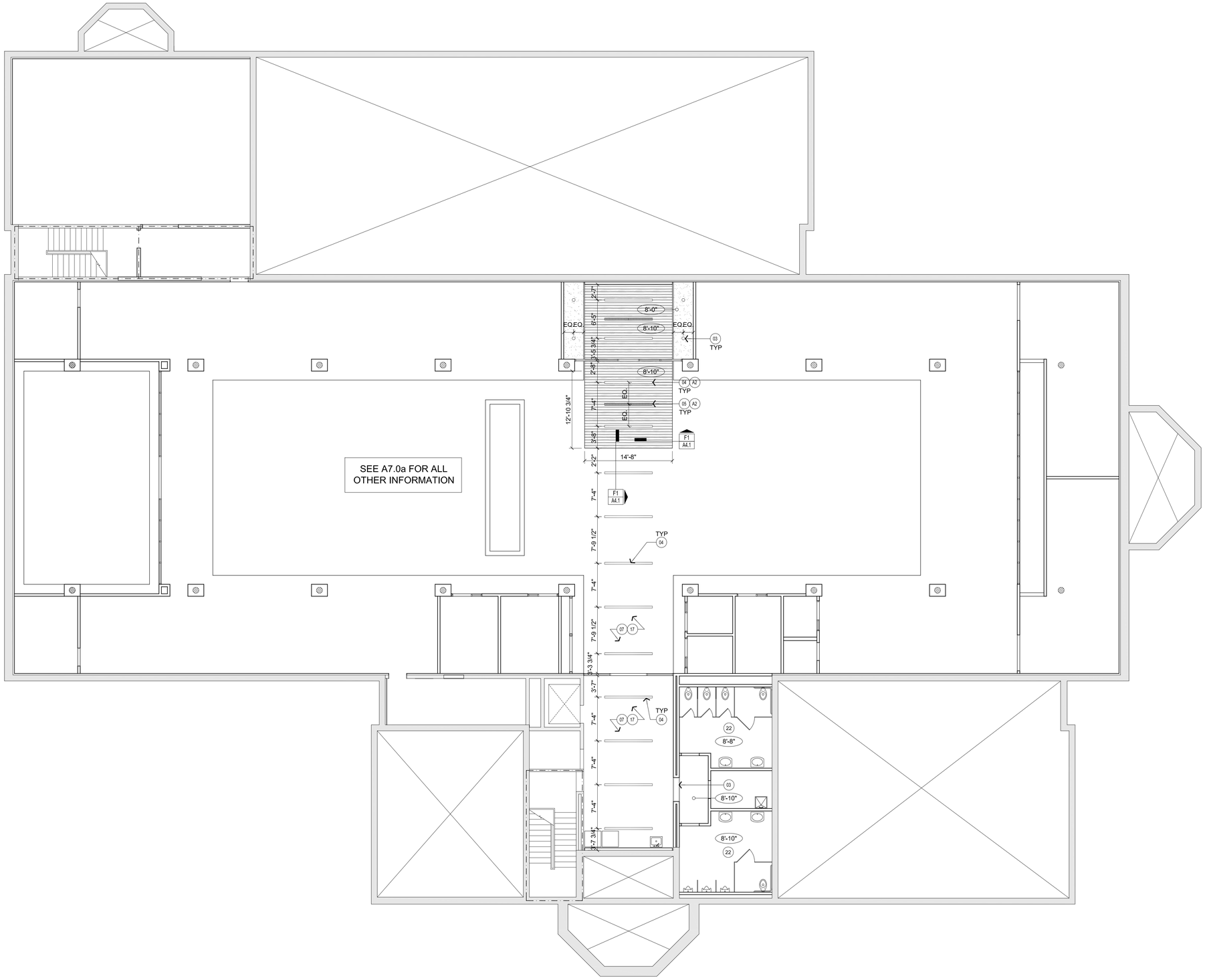
BASEMENT RC PLAN - BASE BID

A7.0 a




M1 BASEMENT RC PLAN - ALTERNATE BID (A2)

A7.0b SCALE: 1/8" = 1'-0"

GENERAL RC PLAN NOTES:

1. ALL WALLS TO CONTINUE TO BOTTOM OF EXISTING DECK ABOVE UNLESS OTHERWISE NOTED. WHERE APPLICABLE, CONSTRUCT WALLS AROUND EXISTING STEEL JOISTS AND PROVIDE 1/2" MIN. GAP W/ SLOTTED TRACK. SEE DET. J15/A4.1 FOR MORE INFO.
2. ALL CEILING MOUNTED ITEMS TO BE CENTERED IN SPACE, U.O.N.
3. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE SCHEDULE.
4. ALL LIGHT FIXTURES TO ALIGN WITH ADJACENT LIGHT FIXTURE ROWS / GROUPS UNLESS OTHERWISE NOTED.

RCP SYMBOLS

- NEW T&G WOOD CEILING; CLEAR SEAL ALL SIDES
- NEW VENEER PLYWOOD CEILING; BOOKMATCH FOR MIN. JOINT
- NEW GWB CEILING; PAINT AS PER FINISH SCHEDULE
- NEW 2x4 CEILING GRID; PAINT AS PER FINISH SCHEDULE
- SUPPLY / RETURN AIR; SEE MECHANICAL
- XX'-X" CEILING HEIGHT

KEYED PLAN NOTES:

01 NO WORK TO BE DONE IN THIS AREA

02 NEW 2x4 FLORESCENT LIGHT FIXTURE

03 NEW CAN LIGHT

04 NEW STRIP FLORESCENT LIGHT FIXTURE; CENTER ON JOINTS AND RECESS IN WOOD CEILING; HANG AT 8'-8" A.F.F. IN GWB CEILING

05 NEW MECHANICAL SLOT DIFFUSER

06 WOOD BOX BULKHEAD AROUND STAIR; SEE SEC. AND DET. FOR MORE INFO; SEE C1/A1.2 FOR ELEVATIONS

07 EXPOSED STRUCTURE W/ B.O. JOISTS AT 10' - 4" (+/-) A.F.F.

08 NEW 1x6 T&G DOUG FIR WOOD CEILING CLOUD HELD 2" OFF 'LOBBY 001' WALLS; CLEAR SEAL ALL SIDES; SEE SECTIONS FOR MORE INFORMATION; COORD. JOINTS WITH LIGHT FIXTURE SPACING

09 NEW EXPOSED SPRINKLER PIPING IN THIS AREA; PAINT TO MATCH EXISTING CEILING AND COORDINATE ALL LOCATIONS WITH ARCHITECT PRIOR TO CONSTRUCTION

10 ALIGN

11 NEW 1x8 PENDANT LIGHT FIXTURE; MOUNT AT 8'-8" A.F.F.

12 NEW STEEL BEAM FRAME AROUND NEW STAIR OPENING; REMOVE EXIST. JOISTS IN THIS AREA AND REPLACE W/ BEAMS; RUN E-W PERIMETER BEAMS BETWEEN EXIST. COLUMN GRID; PAINT ALL EXPOSED BEAMS TO MATCH ADJACENT CEILING

13 NEW 6"x4' FLORESCENT LIGHT FIXTURE; LOCATE IN CEILING TILE AS SHOWN

14 NEW DECORATIVE PENDANT LIGHT FIXTURE; CENTER IN CEILING TILE

15 NEW OPERABLE PARTITION; INSTALL AS PER MFR STANDARD DETAILS; SEE DET. FOR MORE INFO.

16 EXISTING DUCTWORK TO BE REUSED IN THIS LOCATION, BUT LIGHTS AND DIFFUSERS ARE TO BE REPLACED; LOCATIONS SHOWN ARE APPROXIMATE; CONTACT ARCHITECT W/ DISCREPANCIES

17 PROVIDE 2'-0" x 4'-0" TECTUM ACOUST. PANELS, OR EQUIVALENT, IN THIS AREA; LOCATE TIGHT TO B.O. DECK, IN BETWEEN EVERY OTHER JOIST, AND SPACE AT 8'-0" O.C.; PAINT TO MATCH CEILING

18 AUTOMATIC SENSOR; COORD. W/ MEP AND CENTER BETWEEN ADJ. MECH. AND ELEC. ELEMENTS

19 TRACK LIGHTING; COORD. W/ MEP

20 NEW EXPOSED DUCT (DASHED LINE); MOUNT TIGHT TO STRUCTURE AND PAINT; SEE MECH.

21 GROW LIGHT; SEE ELEC.

22 SEE MEP FOR ALL WORK THIS AREA

23 NEW BULKHEAD TO MATCH OPPOSITE EXISTING DOOR OPENING AT STAIR

24 WALL WASH LIGHT FIXTURE IN COVE; SEE G1/A1.2 FOR MORE INFO. (SIM. CONSTRUCTION @ HERITAGE ROOM)

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STATE OF MISSOURI
MICHAEL D. ALLEY
A-4671
REGISTERED ARCHITECT

REVISION DATE

PROJECT NUMBER: 12027

DATE: 11/15/2013

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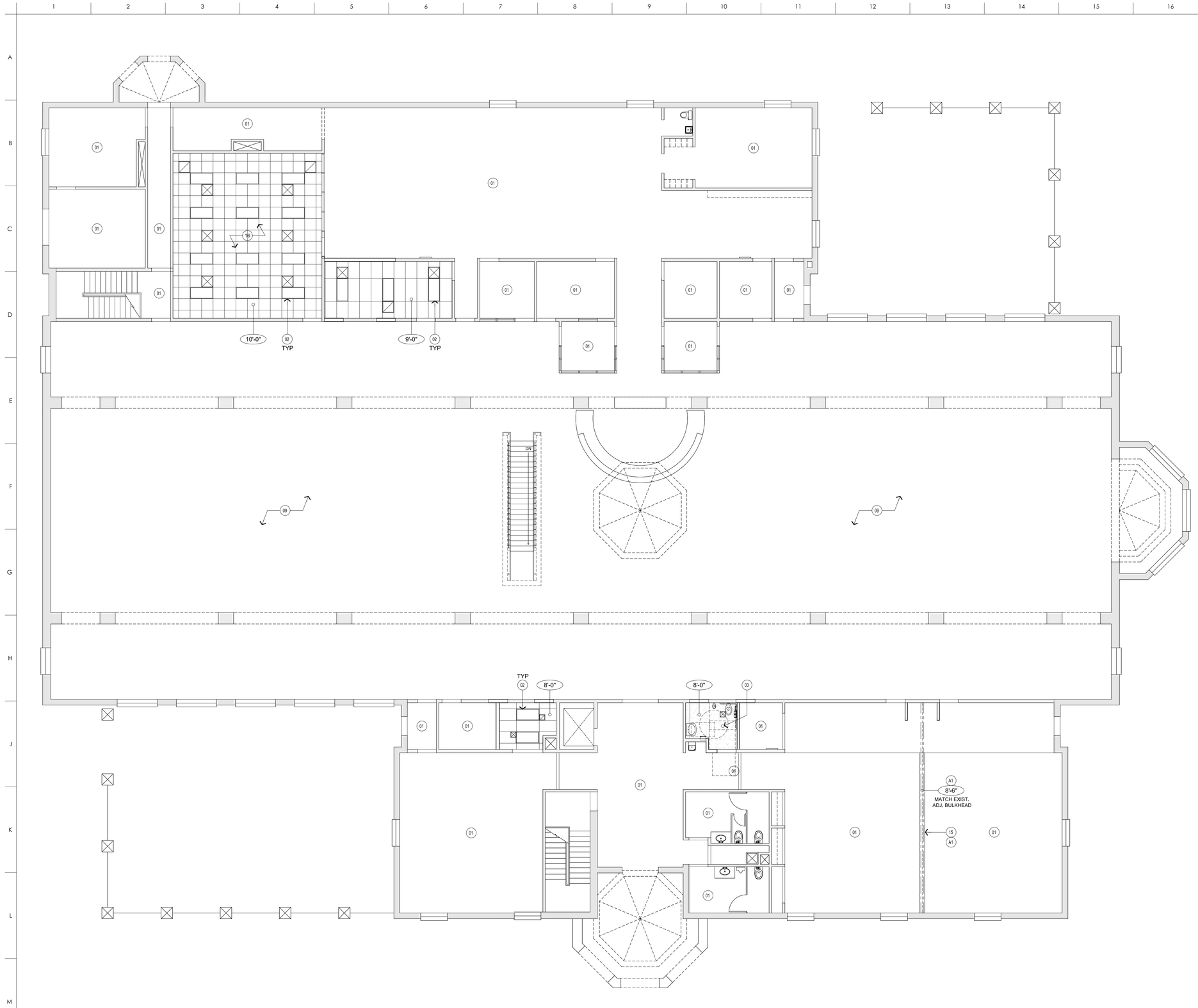
BASEMENT RC PLAN - ALTERNATE BID

A7.0 b




M1 FIRST FLOOR RC PLAN (A1)

A7.1 SCALE: 1/8" = 1'-0"

GENERAL RC PLAN NOTES:

1. ALL WALL TO CONTINUE TO BOTTOM OF EXISTING DECK ABOVE UNLESS OTHERWISE NOTED. WHERE APPLICABLE, JUST WALLS AROUND EXISTING STEEL JOISTS AND PROVIDE 1/2" MIN. GAP W/ SLOTTED TRACK. SEE DET. J15/A4.1 FOR MORE INFO.
2. ALL CEILING MOUNTED ITEMS TO BE CENTERED IN SPACE, U.O.N.
3. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE SCHEDULE.
4. ALL LIGHT FIXTURES TO ALIGN WITH ADJACENT LIGHT FIXTURE ROWS / GROUPS UNLESS OTHERWISE NOTED.

RCP SYMBOLS

- NEW T&G WOOD CEILING; CLEAR SEAL ALL SIDES
- NEW VENEER PLYWOOD CEILING; BOOKMATCH FOR MIN. JOIN
- NEW GWB CEILING; PAINT AS PER FINISH SCHEDULE
- NEW 2x4 CEILING GRID; PAINT AS PER FINISH SCHEDULE
- SUPPLY / RETURN AIR; SEE MECHANICAL
- XX'-0" CEILING HEIGHT

KEYED PLAN NOTES:

01 NO WORK TO BE DONE IN THIS AREA

02 NEW 2x4 FLORESCENT LIGHT FIXTURE

03 NEW CAN LIGHT

04 NEW STRIP FLORESCENT LIGHT FIXTURE; CENTER ON JOINTS AND RECESS IN WOOD CEILING; HANG AT 8'-8" A.F.F. IN GWB CEILING

05 NEW MECHANICAL SLOT DIFFUSER

06 WOOD BOX BULKHEAD AROUND STAIR; SEE SEC. AND DET. FOR MORE INFO; SEE C1/A1.2 FOR ELEVATIONS

07 EXPOSED STRUCTURE W/ B.O. JOISTS AT 10' - 4" (+/-) A.F.F.

08 NEW 1x6 T&G DOUG FIR WOOD CEILING CLOUD HELD 2" OFF 'LOBBY 001' WALLS; CLEAR SEAL ALL SIDES; SEE SECTIONS FOR MORE INFORMATION; COORD. JOINTS WITH LIGHT FIXTURE SPACING

09 NEW EXPOSED SPRINKLER PIPING IN THIS AREA; PAINT TO MATCH EXISTING CEILING AND COORDINATE ALL LOCATIONS WITH ARCHITECT PRIOR TO CONSTRUCTION

10 ALIGN

11 NEW 1x8 PENDANT LIGHT FIXTURE; MOUNT AT 8'-8" A.F.F.

12 NEW STEEL BEAM FRAME AROUND NEW STAIR OPENING; REMOVE EXIST. JOISTS IN THIS AREA AND REPLACE W/ BEAMS; RUN E-W PERIMETER BEAMS BETWEEN EXIST. COLUMN GRID; PAINT ALL EXPOSED BEAMS TO MATCH ADJACENT CEILING

13 NEW 6"x4' FLORESCENT LIGHT FIXTURE; LOCATE IN CEILING TILE AS SHOWN

14 NEW DECORATIVE PENDANT LIGHT FIXTURE; CENTER IN CEILING TILE

15 NEW OPERABLE PARTITION; INSTALL AS PER MFR STANDARD DETAILS; SEE DET. FOR MORE INFO.

16 EXISTING DUCTWORK TO BE REUSED IN THIS LOCATION. BUT LIGHTS AND DIFFUSERS ARE TO BE REPLACED: LOCATIONS SHOWN ARE APPROXIMATE; CONTACT ARCHITECT W/ DISCREPANCIES

17 PROVIDE 2'-0" x 4'-0" TECTUM ACOUST. PANELS, OR EQUIVALENT, IN THIS AREA; LOCATE TIGHT TO B.O. DECK, IN BETWEEN EVERY OTHER JOIST, AND SPACE AT 8'-0" O.C.; PAINT TO MATCH CEILING

18 AUTOMATIC SENSOR; COORD. W/ MEP AND CENTER BETWEEN ADJ. MECH. AND ELEC. ELEMENTS

19 TRACK LIGHTING; COORD. W/ MEP

20 NEW EXPOSED DUCT (DASHED LINE); MOUNT TIGHT TO STRUCTURE AND PAINT; SEE MECH.

21 GROW LIGHT; SEE ELEC.

22 SEE MEP FOR ALL WORK THIS AREA

23 NEW BULKHEAD TO MATCH OPPOSITE EXISTING DOOR OPENING AT STAIR

24 WALL WASH LIGHT FIXTURE IN COVE; SEE G1/A1.2 FOR MORE INFO. (SIM. CONSTRUCTION @ HERITAGE ROOM)

25 PENDANT LIGHT FIXTURE; SEE ELEC.

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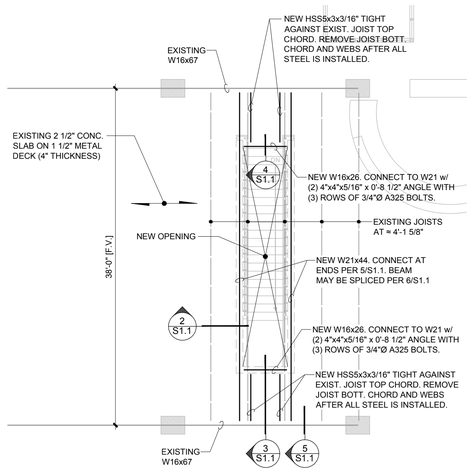
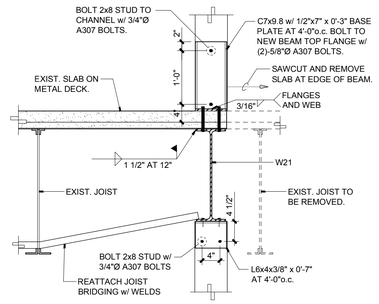
FIRST FLOOR RC PLAN

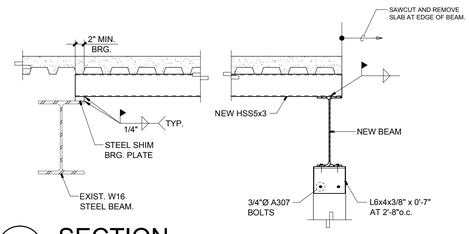
A7.1



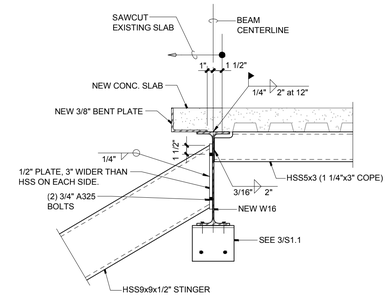

1 FRAMING PLAN
1/8" = 1'-0"



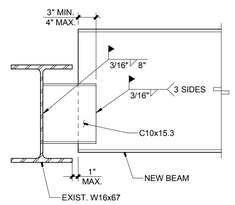

2 SECTION
3/4" = 1'-0"



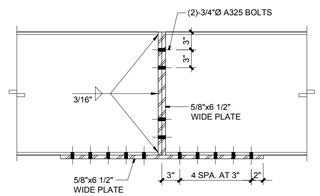

3 SECTION
3/4" = 1'-0"



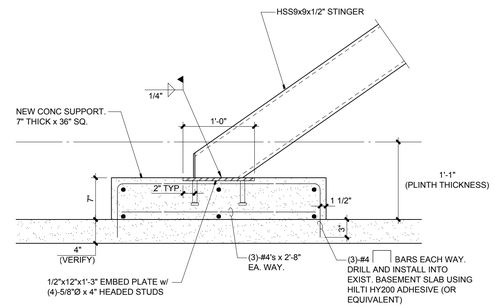

4 SECTION
1" = 1'-0"




5 SECTION
1" = 1'-0"




6 BEAM SPLICE
1" = 1'-0"




7 SECTION
1" = 1'-0"

## STRUCTURAL NOTES, GENERAL

1. CODE: 2009 International Building Code

2. STRUCTURAL DESIGN LOADS:

   FLOOR LIVE LOADS:
   Stairs: 100 PSF

3. GENERAL NOTES:

   A. All work shall comply with requirements of the 2009 International Building Code, with recommendations of manufacturers, and with recognized workmanship and material standards.

   B. Comply with all applicable codes, ordinances, and regulations including those promulgated and enforced by OSHA. The structural design represented by the drawings and specifications is based on interaction of the various components, materials, and systems shown or required by all of the drawings and specifications. The contractor shall determine the need for and provide all required bracing or other means to insure stability and safety until all work required by the contract documents is complete. When and where necessary to comply with these requirements, the contractor shall provide appropriate additional temporary or permanent connections and/or members or, in the alternative, shall make appropriate modifications of specified connections and/or members. Where additions to or modifications of specified requirements are proposed, they shall be submitted to the Architect for review and approval. Such review and approval will be only for compliance with the structural and architectural design intent for the work. The adequacy for construction phase stability and safety is the responsibility of the contractor.

   C. Adapt requirements of details, sections, plans, and notes at all locations of which conditions are similar.

   D. The structural drawings are to be read in view of all other drawings and all specifications. Coordinate all work shown with all other work.

   E. Shop drawings for any part of the work shall show the interface with and provisions for related other work including such adaptations of requirements given as may be necessary.

   F. Contractor shall cross check dimensions and elevations between architectural, mechanical, and structural plans and notify Architect of any variance before contractor begins work.

4. SPECIAL INSPECTION:

   Special Inspection in accordance with Section 1704 of the 2009 International Building Code will be performed for the following types of work:

   A. Structural Steel: Special Inspection in accordance with Table 1704.3 of the IBC is required for all steel.

   B. Post-Installed Anchors: Provide special inspection in accordance with the product's ICC/ES Report. All stress increases have been utilized.

   The Contractor shall provide the Special Inspector sufficient notification to allow the required inspections to be made without delaying the construction schedule. The Contractor shall confirm that ALL inspections have been completed and approved by the Special Inspector prior to proceeding with Work.

## CAST-IN-PLACE CONCRETE WORK

1. MATERIALS:

   Concrete:

| Class | Locations | 28-Day Strength | Density | Max. Slump | Max. Aggregate | Air Entrainment |
|---|---|---|---|---|---|---|
| TYPE I | Interior slab-on-grade, Footings, Walls, & Structural Slabs | 3000 PSI | 145 PCF | 5" | 3/4" | N.A. |

   Other Materials:

   Reinforcing Bars: ASTM A615 Grade 60, deformed.
   Deformed Bar Anchors: ASTM A496, with a minimum tensile strength of 80 ksi.
   Welded Wire Fabric: ASTM A185, flat sheet type.
   Anchor Bolts: ASTM F1554 Gr. 36, Unless Noted Otherwise.
   Adhesive Anchors: Hilti "HIT RE 500-SD" or Simpson "SET-XP", when anchoring to concrete.
   Expansion Anchors: Hilti "Kwik Bolt TZ" or Simpson "Strong-Bolt"

2. GENERAL:

   A. All concrete work shall comply with 2009 International Building Code and ACI 301.

   B. Coordinate work with all other work.

## STRUCTURAL STEEL WORK

1. MATERIALS:

   Structural Members (W shapes): ASTM A992, Grade 50, U.N.O.
   Angles, Channels, Plates, and Bars: ASTM A36, U.N.O.
   Hollow Structural Section: ASTM A500 Grade B
   Steel Pipe: ASTM A53, Type E or S, Grade B
   Headed Studs: ASTM A108, Grade 1015
   Anchor Bolts: ASTM F1554, Gr. 36, headed type; U.N.O.
   Non-High Strength Bolts: ASTM A307
   High Strength Bolts: ASTM A325 bolts, U.N.O.
   Adhesive Anchors: Hilti "HIT-RE 500-SD", Simpson "SET-XP", when anchoring to concrete. Hilti "HY150 MAX", Simpson "Acrylic-Tie", when anchoring to solid masonry.
   Welding Electrodes: E70
   Deformed Bar Anchors: ASTM A496, with a minimum tensile strength of 80 ksi.

2. STRUCTURAL STEEL:

   A. Provide structural steel work as shown on the drawings and described in the specifications and submit shop drawings for the same.

   B. Steel shall be fabricated to achieve the elevations, slopes, and geometry shown on the Architectural and Structural Drawings.

   C. Comply with all applicable codes, ordinances, and regulations including IBC 2009, and AISC.

## EXISTING WORK

1. Existing conditions shown or noted on the drawings were obtained from existing plans. If conditions other than those shown exist, immediately notify Architect before proceeding with the work at that location. If conditions other than those shown exist, alternate methods of construction may need to be used.

2. Use appropriate construction methods and equipment as necessary to support existing structures and to avoid overstressing the existing structures.

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11/15/2013

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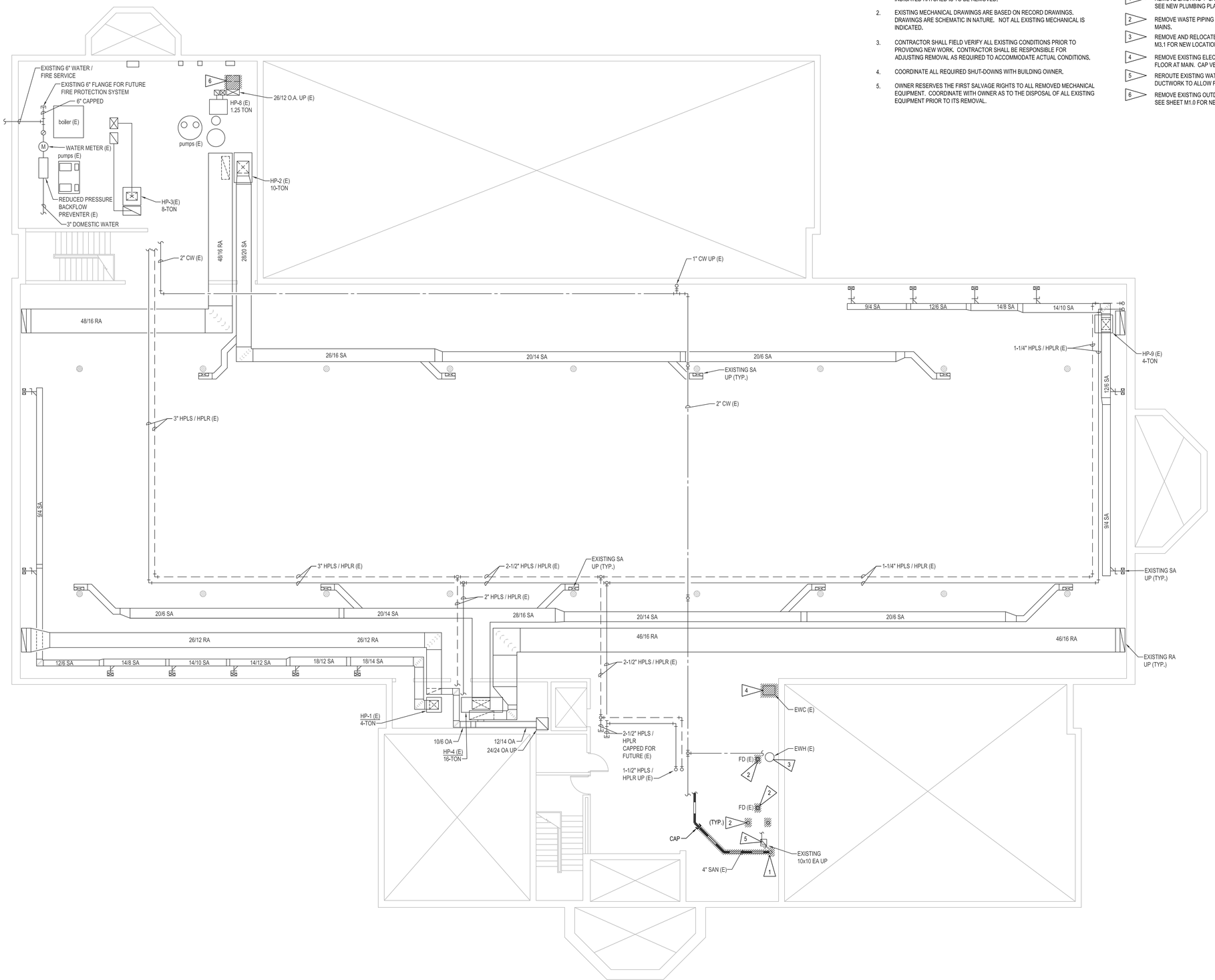
FIRST FLOOR PLAN

S1.1




## GENERAL NOTES

1. ALL MECHANICAL INDICATED THIS SHEET IS EXISTING. ALL MECHANICAL INDICATED HATCHED IS TO BE REMOVED.
2. EXISTING MECHANICAL DRAWINGS ARE BASED ON RECORD DRAWINGS. DRAWINGS ARE SCHEMATIC IN NATURE. NOT ALL EXISTING MECHANICAL IS INDICATED.
3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROVIDING NEW WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING REMOVAL AS REQUIRED TO ACCOMMODATE ACTUAL CONDITIONS.
4. COORDINATE ALL REQUIRED SHUT-DOWNS WITH BUILDING OWNER.
5. OWNER RESERVES THE FIRST SALVAGE RIGHTS TO ALL REMOVED MECHANICAL EQUIPMENT. COORDINATE WITH OWNER AS TO THE DISPOSAL OF ALL EXISTING EQUIPMENT PRIOR TO ITS REMOVAL.

## FLAG NOTES

1. REMOVE EXISTING 4" SANITARY VERTICAL STACK AND CAP BELOW FLOOR. SEE NEW PLUMBING PLAN FOR RECONNECTION OF EXISTING 4" SANITARY.
2. REMOVE WASTE PIPING AS SHOWN AND CAP PIPING BELOW FLOOR AT MAINS.
3. REMOVE AND RELOCATE EXISTING ELECTRIC WATER HEATER. SEE SHEET M3.1 FOR NEW LOCATION.
4. REMOVE EXISTING ELECTRIC WATER COOLER. CAP WASTE PIPING BELOW FLOOR AT MAIN. CAP VENT PIPING AT MAIN. CAP WATER PIPING AT MAIN.
5. REROUTE EXISTING WATER LINE AROUND CAPPED EXHAUST AIR DUCTWORK TO ALLOW FOR NEW EXHAUST AIR DUCTWORK CONNECTION.
6. REMOVE EXISTING OUTDOOR AIR DUCTWORK BACK TO LOCATION SHOWN. SEE SHEET M1.0 FOR NEW WORK.

# M1 BASEMENT FLOOR PLAN - MECHANICAL DEMOLITION

MD1.0 SCALE: 1/8" = 1'-0"

# Beatrice Public Library Renovation

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MEI PROJECT NO.: 12248

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note:
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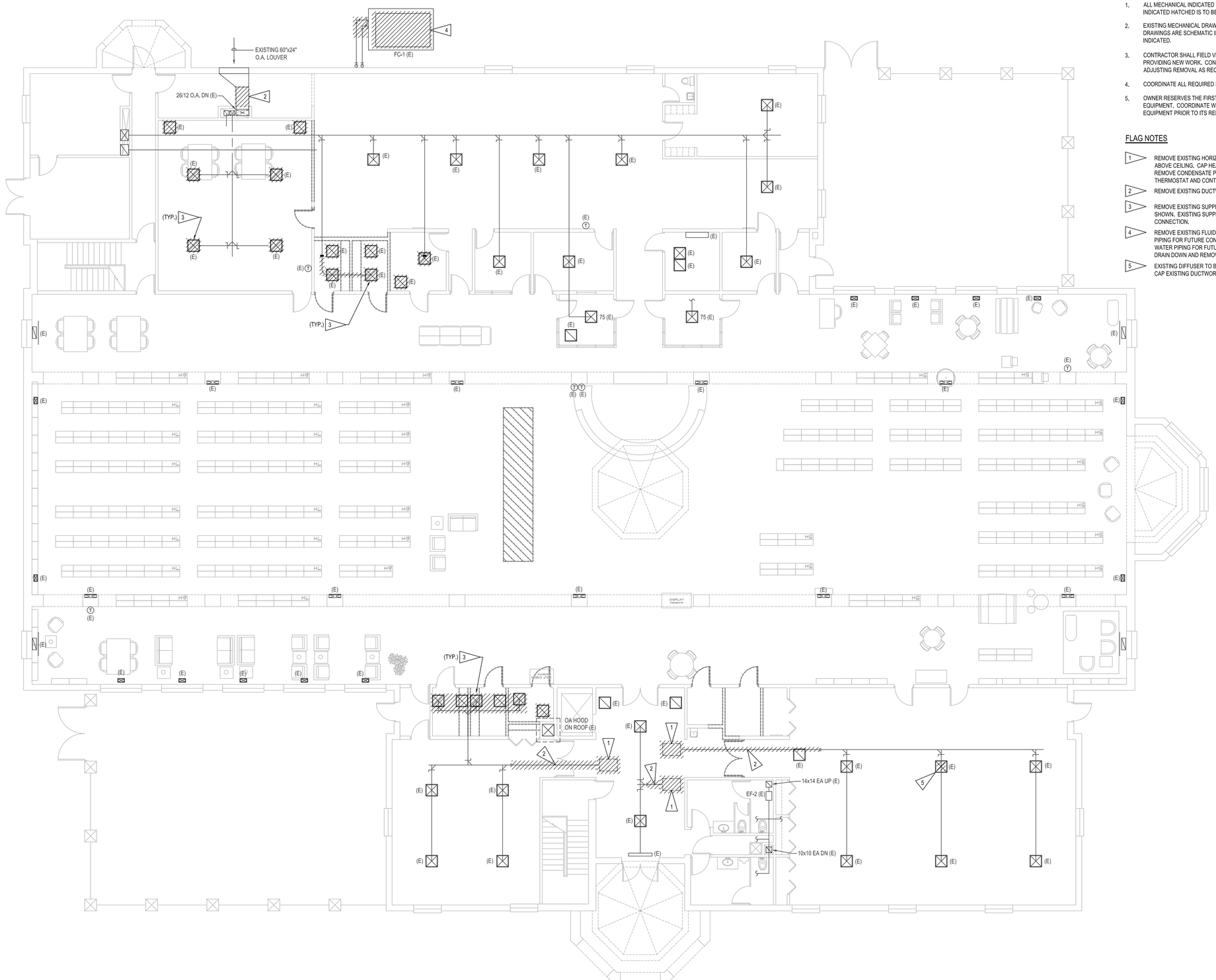
BASEMENT FLOOR PLAN
- MECHANICAL DEMOLITION

# MD1.0




## GENERAL NOTES

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3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROVIDING NEW WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING REMOVAL AS REQUIRED TO ACCOMMODATE ACTUAL CONDITIONS.
4. COORDINATE ALL REQUIRED SHUT-DOWNS WITH BUILDING OWNER.
5. OWNER RESERVES THE FIRST SALVAGE RIGHTS TO ALL REMOVED MECHANICAL EQUIPMENT. COORDINATE WITH OWNER AS TO THE DISPOSAL OF ALL EXISTING EQUIPMENT PRIOR TO ITS REMOVAL.

## FLAG NOTES

1. REMOVE EXISTING HORIZONTAL HEAT PUMP AND DUCTWORK AS SHOWN ABOVE CEILING. CAP HEAT PUMP SUPPLY AND RETURN PIPING AT MAINS. REMOVE CONDENSATE PIPING COMPLETE. REMOVE WALL MOUNTED THERMOSTAT AND CONTROL WIRING.
2. REMOVE EXISTING DUCTWORK AS INDICATED.
3. REMOVE EXISTING SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLES AS SHOWN. EXISTING SUPPLY AIR DUCTWORK TO REMAIN FOR FUTURE CONNECTION.
4. REMOVE EXISTING FLUID COOLER. PROTECT EXISTING SCHEDULE 80 PVC PIPING FOR FUTURE CONNECTION. PROTECT FLUID COOLER MAKE-UP WATER PIPING FOR FUTURE CONNECTION. COORDINATE FLUID COOLER DRAIN DOWN AND REMOVAL WITH BUILDING OWNER.
5. EXISTING DIFFUSER TO BE RELOCATED. SEE M1.1 FOR NEW LOCATION. CAP EXISTING DUCTWORK.

# M1 FIRST FLOOR PLAN - MECHANICAL DEMOLITION

MD1.1 SCALE: 1/8" = 1'-0"

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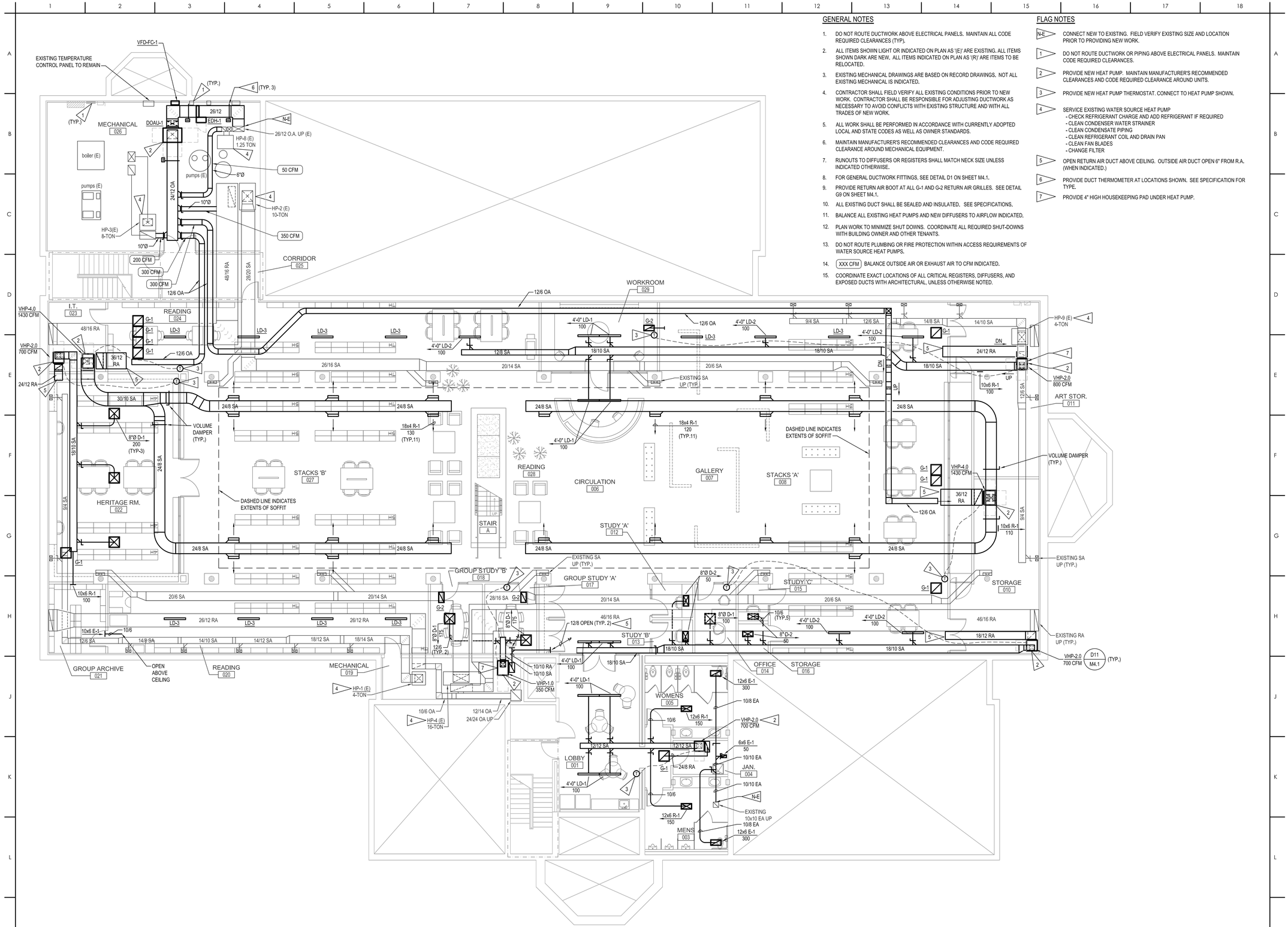
FIRST FLOOR PLAN
- MECHANICAL DEMOLITION

# MD1.1




## GENERAL NOTES

1. DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES (TYP).
2. ALL ITEMS SHOWN LIGHT OR INDICATED ON PLAN AS '(E)' ARE EXISTING. ALL ITEMS SHOWN DARK ARE NEW. ALL ITEMS INDICATED ON PLAN AS '(R)' ARE ITEMS TO BE RELOCATED.
3. EXISTING MECHANICAL DRAWINGS ARE BASED ON RECORD DRAWINGS. NOT ALL EXISTING MECHANICAL IS INDICATED.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO NEW WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING DUCTWORK AS NECESSARY TO AVOID CONFLICTS WITH EXISTING STRUCTURE AND WITH ALL TRADES OF NEW WORK.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENTLY ADOPTED LOCAL AND STATE CODES AS WELL AS OWNER STANDARDS.
6. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AND CODE REQUIRED CLEARANCE AROUND MECHANICAL EQUIPMENT.
7. RUNOUTS TO DIFFUSERS OR REGISTERS SHALL MATCH NECK SIZE UNLESS INDICATED OTHERWISE.
8. FOR GENERAL DUCTWORK FITTINGS, SEE DETAIL D1 ON SHEET M4.1.
9. PROVIDE RETURN AIR BOOT AT ALL G-1 AND G-2 RETURN AIR GRILLES. SEE DETAIL G9 ON SHEET M4.1.
10. ALL EXISTING DUCT SHALL BE SEALED AND INSULATED. SEE SPECIFICATIONS.
11. BALANCE ALL EXISTING HEAT PUMPS AND NEW DIFFUSERS TO AIRFLOW INDICATED.
12. PLAN WORK TO MINIMIZE SHUT DOWNS. COORDINATE ALL REQUIRED SHUT-DOWNS WITH BUILDING OWNER AND OTHER TENANTS.
13. DO NOT ROUTE PLUMBING OR FIRE PROTECTION WITHIN ACCESS REQUIREMENTS OF WATER SOURCE HEAT PUMPS.
14. XXX CFM BALANCE OUTSIDE AIR OR EXHAUST AIR TO CFM INDICATED.
15. COORDINATE EXACT LOCATIONS OF ALL CRITICAL REGISTERS, DIFFUSERS, AND EXPOSED DUCTS WITH ARCHITECTURAL, UNLESS OTHERWISE NOTED.

## FLAG NOTES

- N-E — CONNECT NEW TO EXISTING. FIELD VERIFY EXISTING SIZE AND LOCATION PRIOR TO PROVIDING NEW WORK.
- 1 — DO NOT ROUTE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS. MAINTAIN CODE REQUIRED CLEARANCES.
- 2 — PROVIDE NEW HEAT PUMP. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AND CODE REQUIRED CLEARANCE AROUND UNITS.
- 3 — PROVIDE NEW HEAT PUMP THERMOSTAT. CONNECT TO HEAT PUMP SHOWN.
- 4 — SERVICE EXISTING WATER SOURCE HEAT PUMP
  - CHECK REFRIGERANT CHARGE AND ADD REFRIGERANT IF REQUIRED
  - CLEAN CONDENSER WATER STRAINER
  - CLEAN CONDENSATE PIPING
  - CLEAN REFRIGERANT COIL AND DRAIN PAN
  - CLEAN FAN BLADES
  - CHANGE FILTER
- 5 — OPEN RETURN AIR DUCT ABOVE CEILING. OUTSIDE AIR DUCT OPEN 6" FROM R.A. (WHEN INDICATED.)
- 6 — PROVIDE DUCT THERMOMETER AT LOCATIONS SHOWN. SEE SPECIFICATION FOR TYPE.
- 7 — PROVIDE 4" HIGH HOUSEKEEPING PAD UNDER HEAT PUMP.

# M1 BASEMENT FLOOR PLAN - HVAC

M1.0 SCALE: 1/8" = 1'-0"

# Beatrice Public Library Renovation

100 N. 16th Street
Beatrice, NE 68310

MEI PROJECT NO.: 12248

morrissey engineering inc
mechanical | electrical | technology | commissioning
4940 North 118th Street
Omaha, NE 68164
P: 402.491.4144
www.morrisseyengineering.com

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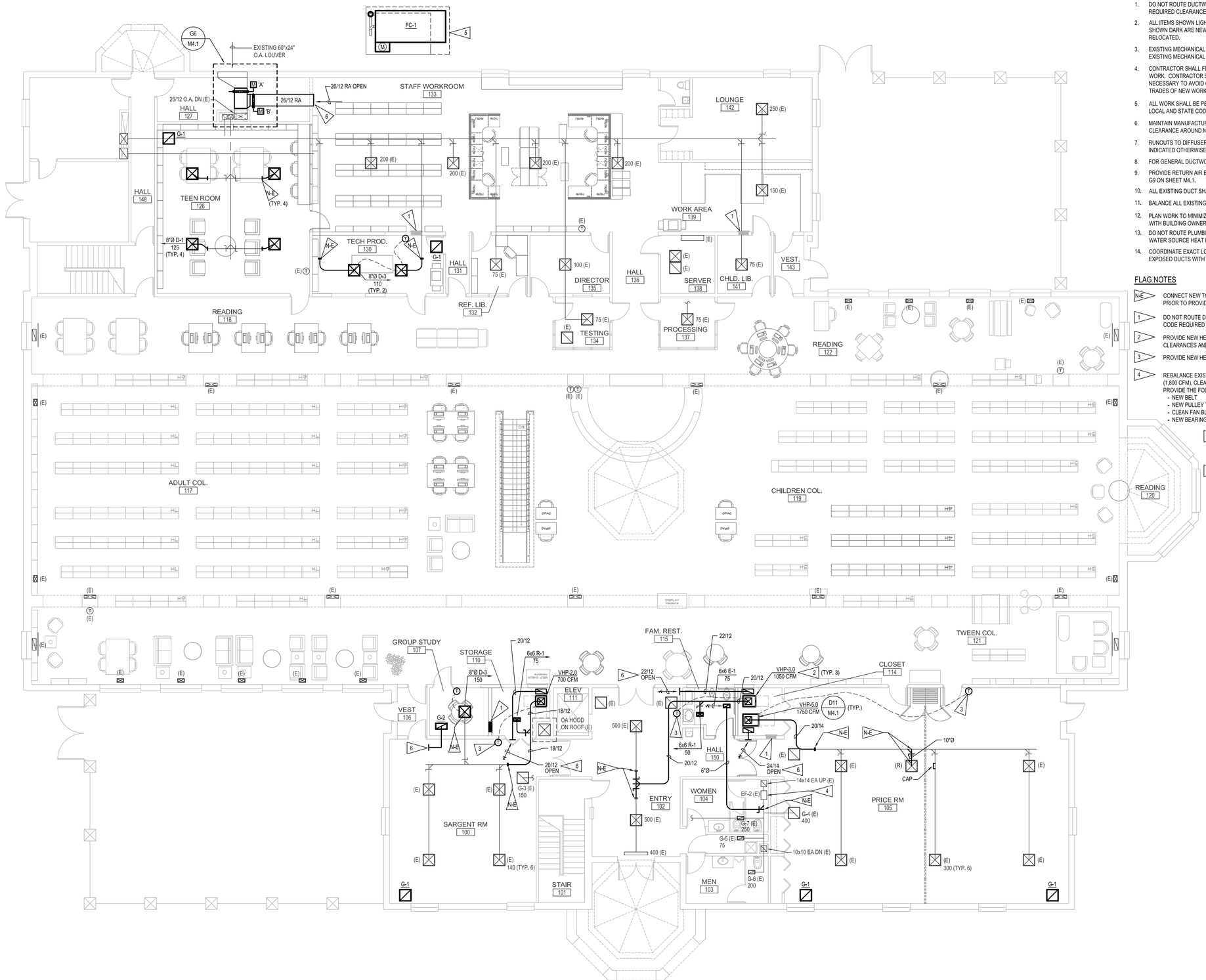
BASEMENT FLOOR PLAN - HVAC

M1.0




## GENERAL NOTES

1. DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES (TYP).
2. ALL ITEMS SHOWN LIGHT OR INDICATED ON PLAN AS '(E)' ARE EXISTING. ALL ITEMS SHOWN DARK ARE NEW. ALL ITEMS INDICATED ON PLAN AS '(R)' ARE ITEMS TO BE RELOCATED.
3. EXISTING MECHANICAL DRAWINGS ARE BASED ON RECORD DRAWINGS. NOT ALL EXISTING MECHANICAL IS INDICATED.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO NEW WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING DUCTWORK AS NECESSARY TO AVOID CONFLICTS WITH EXISTING STRUCTURE AND WITH ALL TRADES OF NEW WORK.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENTLY ADOPTED LOCAL AND STATE CODES AS WELL AS OWNER STANDARDS.
6. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AND CODE REQUIRED CLEARANCE AROUND MECHANICAL EQUIPMENT.
7. RUNOUTS TO DIFFUSERS OR REGISTERS SHALL MATCH NECK SIZE UNLESS INDICATED OTHERWISE.
8. FOR GENERAL DUCTWORK FITTINGS, SEE DETAIL D1 ON SHEET M4.1.
9. PROVIDE RETURN AIR BOOT AT ALL G-1 AND G-2 RETURN AIR GRILLES. SEE DETAIL G9 ON SHEET M4.1.
10. ALL EXISTING DUCT SHALL BE SEALED AND INSULATED. SEE SPECIFICATIONS.
11. BALANCE ALL EXISTING HEAT PUMPS AND NEW DIFFUSERS TO AIRFLOW INDICATED.
12. PLAN WORK TO MINIMIZE SHUT DOWNS. COORDINATE ALL REQUIRED SHUT-DOWNS WITH BUILDING OWNER AND OTHER TENANTS.
13. DO NOT ROUTE PLUMBING OR FIRE PROTECTION WITHIN ACCESS REQUIREMENTS OF WATER SOURCE HEAT PUMPS.
14. COORDINATE EXACT LOCATIONS OF ALL CRITICAL REGISTERS, DIFFUSERS, AND EXPOSED DUCTS WITH ARCHITECTURAL, UNLESS OTHERWISE NOTED.

## FLAG NOTES

N-E — CONNECT NEW TO EXISTING. FIELD VERIFY EXISTING SIZE AND LOCATION PRIOR TO PROVIDING NEW WORK.

1 — DO NOT ROUTE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS. MAINTAIN CODE REQUIRED CLEARANCES.

2 — PROVIDE NEW HEAT PUMP. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AND CODE REQUIRED CLEARANCE AROUND UNITS.

3 — PROVIDE NEW HEAT PUMP THERMOSTAT. CONNECT TO NEW HEAT PUMP SHOWN.

4 — REBALANCE EXISTING INLINE EXHAUST FAN EF-2 (E) FROM (1,075 CFM) TO (1,800 CFM), CLEAN AND SERVICE UNIT.
PROVIDE THE FOLLOWING:
- NEW BELT
- NEW PULLEY TO ACCOMMODATE NEW AIR FLOW
- CLEAN FAN BLADES
- NEW BEARINGS

5 — EXTEND EXISTING HOUSEKEEPING PAD AND FOOTINGS AS REQUIRED FOR FLUID COOLER PROVIDED. MATCH EXISTING CONCRETE SLAB THICKNESS AND REINFORCING.

6 — RETURN AIR OPENING ABOVE CEILING.

# M1 FIRST FLOOR PLAN - HVAC

M1.1 SCALE: 1/8" = 1'-0"

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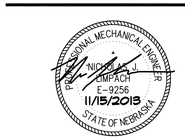


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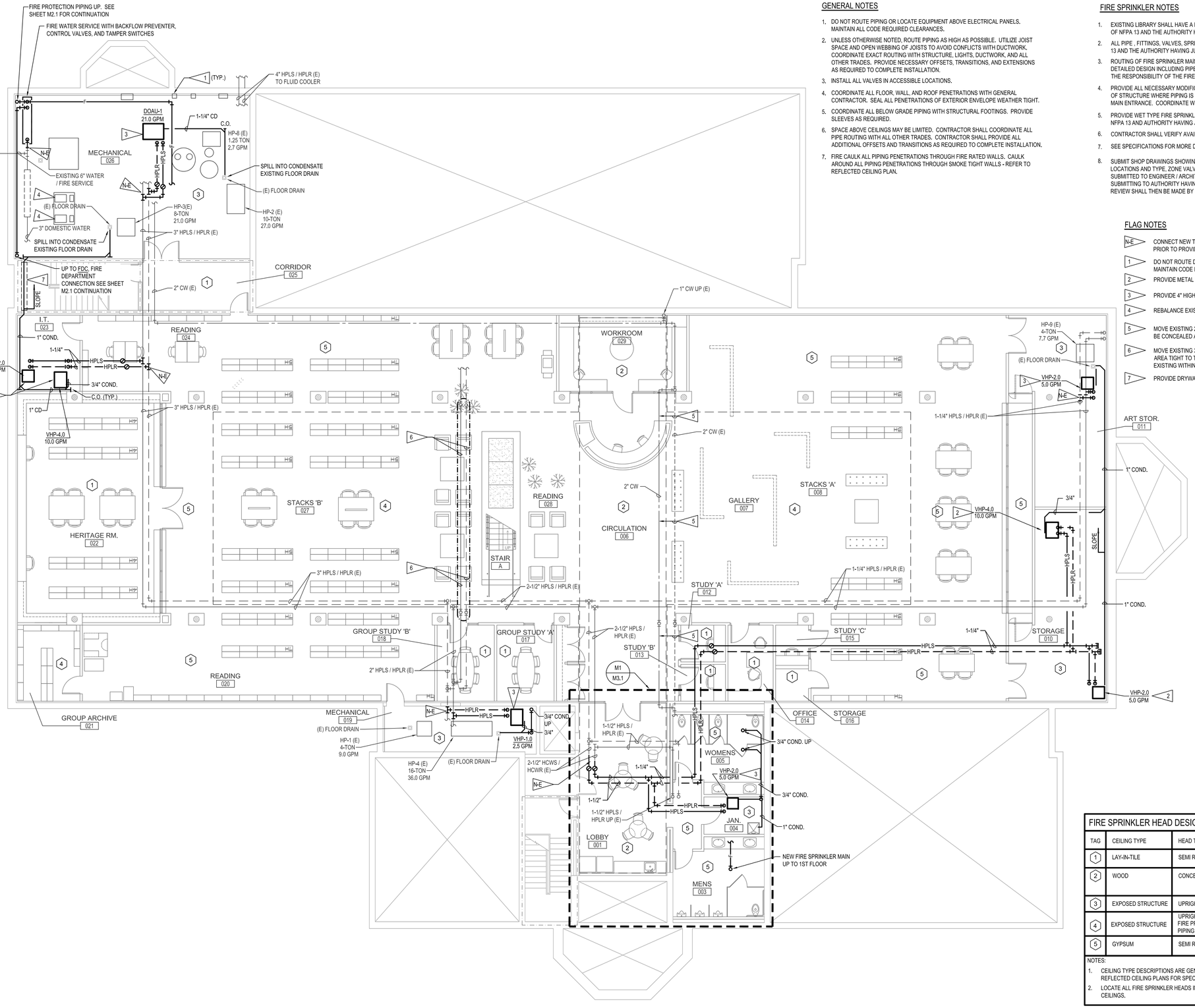
FIRST FLOOR PLAN
- HVAC

M1.1




## GENERAL NOTES

1. DO NOT ROUTE PIPING OR LOCATE EQUIPMENT ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
2. UNLESS OTHERWISE NOTED, ROUTE PIPING AS HIGH AS POSSIBLE. UTILIZE JOIST SPACE AND OPEN WEBBING OF JOISTS TO AVOID CONFLICTS WITH DUCTWORK. COORDINATE EXACT ROUTING WITH STRUCTURE, LIGHTS, DUCTWORK, AND ALL OTHER TRADES. PROVIDE NECESSARY OFFSETS, TRANSITIONS, AND EXTENSIONS AS REQUIRED TO COMPLETE INSTALLATION.
3. INSTALL ALL VALVES IN ACCESSIBLE LOCATIONS.
4. COORDINATE ALL FLOOR, WALL, AND ROOF PENETRATIONS WITH GENERAL CONTRACTOR. SEAL ALL PENETRATIONS OF EXTERIOR ENVELOPE WEATHER TIGHT.
5. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTINGS. PROVIDE SLEEVES AS REQUIRED.
6. SPACE ABOVE CEILINGS MAY BE LIMITED. CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION.
7. FIRE CAULK ALL PIPING PENETRATIONS THROUGH FIRE RATED WALLS. CAULK AROUND ALL PIPING PENETRATIONS THROUGH SMOKE TIGHT WALLS - REFER TO REFLECTED CEILING PLAN.

## FIRE SPRINKLER NOTES

1. EXISTING LIBRARY SHALL HAVE A FIRE PROTECTION SYSTEM PER THE REQUIREMENTS OF NFPA 13 AND THE AUTHORITY HAVING JURISDICTION
2. ALL PIPE , FITTINGS, VALVES, SPRINKLERS SHALL MEET THE REQUIREMENTS OF NFPA 13 AND THE AUTHORITY HAVING JURISDICTION
3. ROUTING OF FIRE SPRINKLER MAINS IS INDICATED SCHEMATICALLY ON DRAWINGS. DETAILED DESIGN INCLUDING PIPE SIZING LOCATION AND SIZING OF HEADS SHALL BE THE RESPONSIBILITY OF THE FIRE SPRINKLER CONTRACTOR.
4. PROVIDE ALL NECESSARY MODIFICATIONS TO INSTALL ALL PIPE ABOVE THE BOTTOM OF STRUCTURE WHERE PIPING IS EXPOSED AND/OR ON THE BACKSIDE OF VIEW FROM MAIN ENTRANCE. COORDINATE WITH A/E AND GENERAL CONTRACTOR.
5. PROVIDE WET TYPE FIRE SPRINKLER PROTECTION FOR ALL STORAGE AREAS PER NFPA 13 AND AUTHORITY HAVING JURISDICTION.
6. CONTRACTOR SHALL VERIFY AVAILABLE WATER FLOW AND PRESSURE.
7. SEE SPECIFICATIONS FOR MORE DETAILED REQUIREMENTS.
8. SUBMIT SHOP DRAWINGS SHOWING COMPLETE PIPE LAYOUT, SPRINKLER HEAD LOCATIONS AND TYPE, ZONE VALVES AND FLOW SWITCHES. SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER / ARCHITECT FOR PRELIMINARY REVIEW PRIOR TO SUBMITTING TO AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. FINAL REVIEW SHALL THEN BE MADE BY ENGINEER.

## FLAG NOTES

- N-E — CONNECT NEW TO EXISTING. FIELD VERIFY EXISTING SIZE AND LOCATION PRIOR TO PROVIDING NEW WORK.
- 1 — DO NOT ROUTE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS. MAINTAIN CODE REQUIRED CLEARANCES.
- 2 — PROVIDE METAL STAND FOR HEAT PUMP.
- 3 — PROVIDE 4" HIGH HOUSEKEEPING PAD UNDER HEAT PUMP
- 4 — REBALANCE EXISTING PUMPS TO 190 GPM.
- 5 — MOVE EXISTING 2" DOMESTIC CW PIPING NORTH APPROXIMATELY 3 FT TO BE CONCEALED ABOVE WOOD CEILING
- 6 — MOVE EXISTING 3/4" (VERIFY SIZE) HPLS/R PIPING UP IN EXPOSED CEILING AREA TIGHT TO THE BOTTOM OF THE 1ST FLOOR SLAB. RECONNECT TO EXISTING WITHIN SOFFIT AREA . PROVIDE AIR VENTS AT HIGH POINTS.
- 7 — PROVIDE DRYWALL ENCLOSURE AROUND PIPING IN STAIR.

## FIRE SPRINKLER HEAD DESIGNATION TABLE

| TAG | CEILING TYPE | HEAD TYPE | HEAD COLOR |
|---|---|---|---|
| 1 | LAY-IN-TILE | SEMI RECESSED | WHITE WITH WHITE SEMI RECESSED ESCUTCHEON |
| 2 | WOOD | CONCEALED | FLAT PLATE TO MATCH WOOD COLOR (COORDINATE WITH ARCHITECT) |
| 3 | EXPOSED STRUCTURE | UPRIGHT / PENDANT | BRASS |
| 4 | EXPOSED STRUCTURE | UPRIGHT / PENDANT FIRE PROTECTION PIPING PAINTED | BRASS |
| 5 | GYPSUM | SEMI RECESSED | WHITE WITH WHITE SEMI RECESSED ESCUTCHEON |

NOTES:
1. CEILING TYPE DESCRIPTIONS ARE GENERIC IN NATURE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR SPECIFIC CEILING TYPE DETAILS.
2. LOCATE ALL FIRE SPRINKLER HEADS IN CENTER OF TILES WHEN INSTALLED IN LAY-IN-TILE CEILINGS.

# M1 BASEMENT FLOOR PLAN - PLUMBING AND PIPING

M2.0 SCALE: 1/8" = 1'-0"

# Beatrice Public Library Renovation

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STATE OF NEBRASKA

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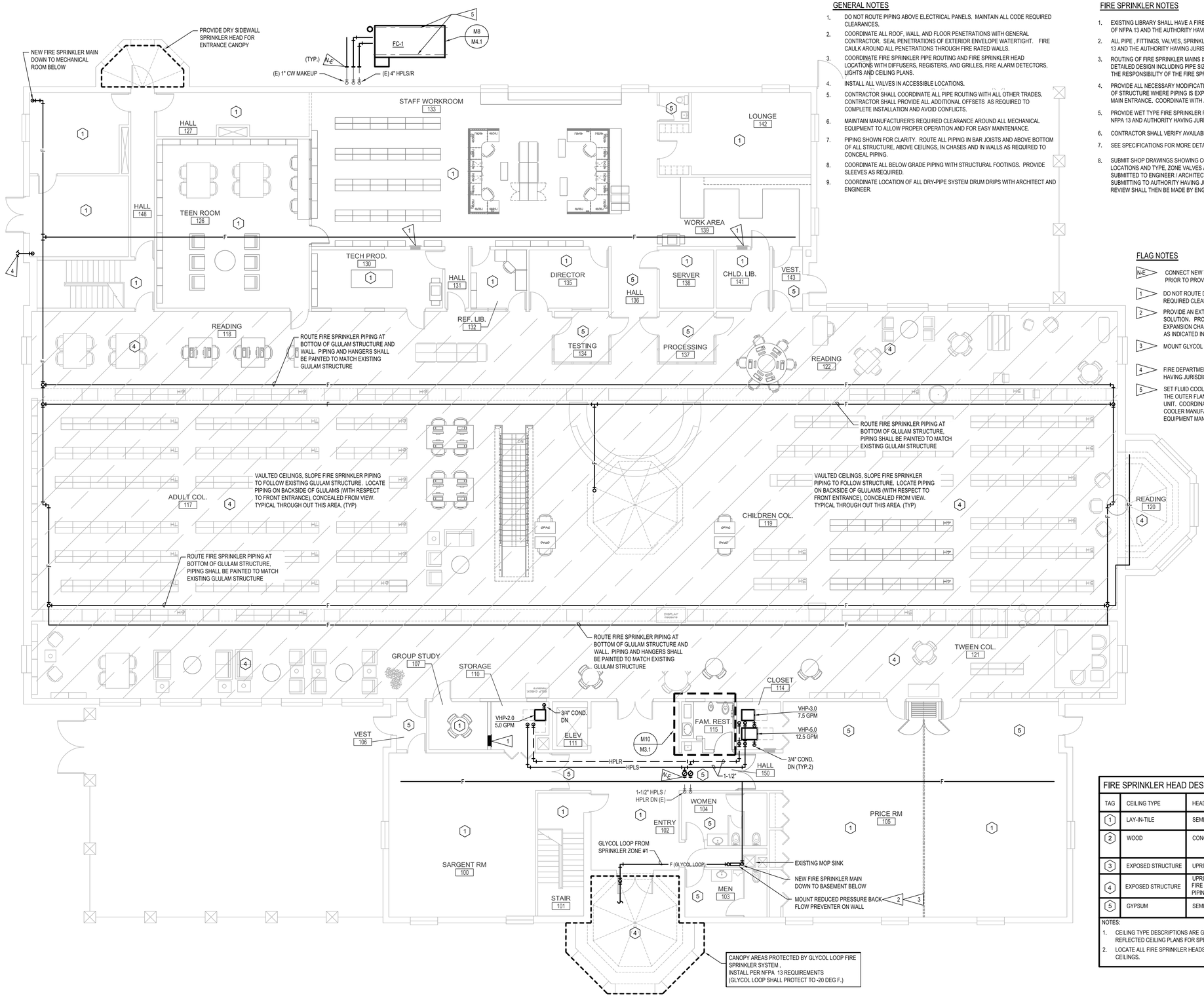
BASEMENT FLOOR PLAN - PLUMBING AND PIPING

M2.0




## GENERAL NOTES

1. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
2. COORDINATE ALL ROOF, WALL, AND FLOOR PENETRATIONS WITH GENERAL CONTRACTOR. SEAL PENETRATIONS OF EXTERIOR ENVELOPE WATERTIGHT. FIRE CAULK AROUND ALL PENETRATIONS THROUGH FIRE RATED WALLS.
3. COORDINATE FIRE SPRINKLER PIPE ROUTING AND FIRE SPRINKLER HEAD LOCATIONS WITH DIFFUSERS, REGISTERS, AND GRILLES, FIRE ALARM DETECTORS, LIGHTS AND CEILING PLANS.
4. INSTALL ALL VALVES IN ACCESSIBLE LOCATIONS.
5. CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION AND AVOID CONFLICTS.
6. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AROUND ALL MECHANICAL EQUIPMENT TO ALLOW PROPER OPERATION AND FOR EASY MAINTENANCE.
7. PIPING SHOWN FOR CLARITY. ROUTE ALL PIPING IN BAR JOISTS AND ABOVE BOTTOM OF ALL STRUCTURE, ABOVE CEILINGS, IN CHASES AND IN WALLS AS REQUIRED TO CONCEAL PIPING.
8. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTINGS. PROVIDE SLEEVES AS REQUIRED.
9. COORDINATE LOCATION OF ALL DRY-PIPE SYSTEM DRUM DRIPS WITH ARCHITECT AND ENGINEER.

## FIRE SPRINKLER NOTES

1. EXISTING LIBRARY SHALL HAVE A FIRE PROTECTION SYSTEM PER THE REQUIREMENTS OF NFPA 13 AND THE AUTHORITY HAVING JURISDICTION
2. ALL PIPE , FITTINGS, VALVES, SPRINKLERS SHALL MEET THE REQUIREMENTS OF NFPA 13 AND THE AUTHORITY HAVING JURISDICTION
3. ROUTING OF FIRE SPRINKLER MAINS IS INDICATED SCHEMATICALLY ON DRAWINGS. DETAILED DESIGN INCLUDING PIPE SIZING LOCATION AND SIZING OF HEADS SHALL BE THE RESPONSIBILITY OF THE FIRE SPRINKLER CONTRACTOR.
4. PROVIDE ALL NECESSARY MODIFICATIONS TO INSTALL ALL PIPE ABOVE THE BOTTOM OF STRUCTURE WHERE PIPING IS EXPOSED AND/OR ON THE BACKSIDE OF VIEW FROM MAIN ENTRANCE. COORDINATE WITH A/E AND GENERAL CONTRACTOR.
5. PROVIDE WET TYPE FIRE SPRINKLER PROTECTION FOR ALL STORAGE AREAS PER NFPA 13 AND AUTHORITY HAVING JURISDICTION.
6. CONTRACTOR SHALL VERIFY AVAILABLE WATER FLOW AND PRESSURE.
7. SEE SPECIFICATIONS FOR MORE DETAILED REQUIREMENTS.
8. SUBMIT SHOP DRAWINGS SHOWING COMPLETE PIPE LAYOUT, SPRINKLER HEAD LOCATIONS AND TYPE, ZONE VALVES AND FLOW SWITCHES. SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER / ARCHITECT FOR PRELIMINARY REVIEW PRIOR TO SUBMITTING TO AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. FINAL REVIEW SHALL THEN BE MADE BY ENGINEER.

## FLAG NOTES

- N-E — CONNECT NEW TO EXISTING. FIELD VERIFY EXISTING SIZE AND LOCATION PRIOR TO PROVIDING NEW WORK.
- 1 — DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- 2 — PROVIDE AN EXTENSION FROM FIRE SPRINKLER ZONE #1 WITH A ANTIFREEZE SOLUTION. PROVIDE BACKFLOW PREVENTER WITH CONTROL VALVES, EXPANSION CHAMBER, FILL CUP OR FILLING CONNECTION AND DRAIN VALVE AS INDICATED IN NFPA 13
- 3 — MOUNT GLYCOL LOOP BACKFLOW PREVENTER NEAR MOP SINK
- 4 — FIRE DEPARTMENT CONNECTION. VERIFY LOCATION WITH AUTHORITY HAVING JURISDICTION.
- 5 — SET FLUID COOLER ON 6" STRUCTURAL "I" BEAM LOCATED UNDER THE OUTER FLANGES AND RUNNING THE ENTIRE LENGTH OF THE UNIT. COORDINATE "I" BEAM LENGTH AND TYPE WITH FLUID COOLER MANUFACTURER. BEAMS SHOULD BE LEVELED TO EQUIPMENT MANUFACTURERS REQUIREMENTS

## FIRE SPRINKLER HEAD DESIGNATION TABLE

| TAG | CEILING TYPE | HEAD TYPE | HEAD COLOR |
|---|---|---|---|
| 1 | LAY-IN-TILE | SEMI RECESSED | WHITE WITH WHITE SEMI RECESSED ESCUTCHEON |
| 2 | WOOD | CONCEALED | FLAT PLATE TO MATCH WOOD COLOR (COORDINATE WITH ARCHITECT) |
| 3 | EXPOSED STRUCTURE | UPRIGHT / PENDANT | BRASS |
| 4 | EXPOSED STRUCTURE | UPRIGHT / PENDANT FIRE PROTECTION PIPING PAINTED | BRASS |
| 5 | GYPSUM | SEMI RECESSED | WHITE WITH WHITE SEMI RECESSED ESCUTCHEON |

NOTES:
1. CEILING TYPE DESCRIPTIONS ARE GENERIC IN NATURE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR SPECIFIC CEILING TYPE DETAILS.
2. LOCATE ALL FIRE SPRINKLER HEADS IN CENTER OF TILES WHEN INSTALLED IN LAY-IN-TILE CEILINGS.

# M1 FIRST FLOOR PLAN - PLUMBING AND PIPING

M2.1 SCALE: 1/8" = 1'-0"

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FIRST FLOOR PLAN
- PLUMBING AND PIPING

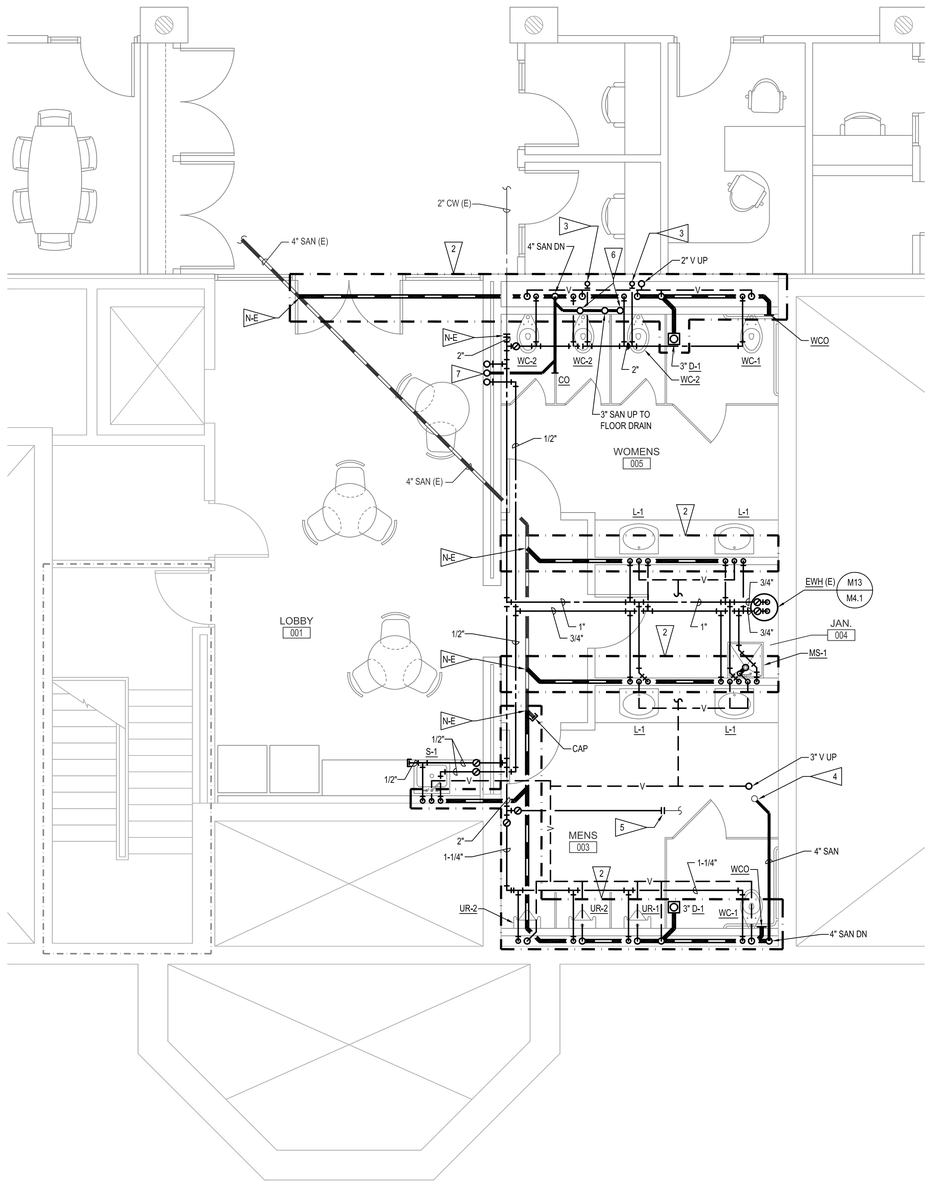
M2.1

## GENERAL NOTES

1. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES (TYP).
2. ALL ITEMS SHOWN LIGHT OR INDICATED ON PLAN AS '(E)' ARE EXISTING. ALL ITEMS SHOWN DARK ARE NEW. ALL ITEMS INDICATED ON PLAN AS '(R)' ARE ITEMS TO BE RELOCATED.
3. CONTRACTOR SHALL COORDINATE ALL PIPING ROUTING WITH ALL OTHER TRADES. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENTLY ADOPTED LOCAL AND STATE CODES AS WELL AS OWNER STANDARDS.
5. PIPING SHOWN FOR CLARITY. ROUTE WATER, VENT, AND OTHER PIPING IN CHASES, AND IN WALLS AS REQUIRED.
6. INSTALL ALL VALVES IN ACCESSIBLE LOCATIONS.
7. PROVIDE ACCESS TO ALL CLEANOUTS ABOVE GYP CEILINGS.
8. SEE PLUMBING FIXTURE SCHEDULE ON SHEET M3.2 FOR PLUMBING FIXTURE CONNECTION SIZES.
9. SEE WASTE AND VENT RISER DIAGRAMS ON SHEET M3.2 FOR WASTE AND VENT SIZES.

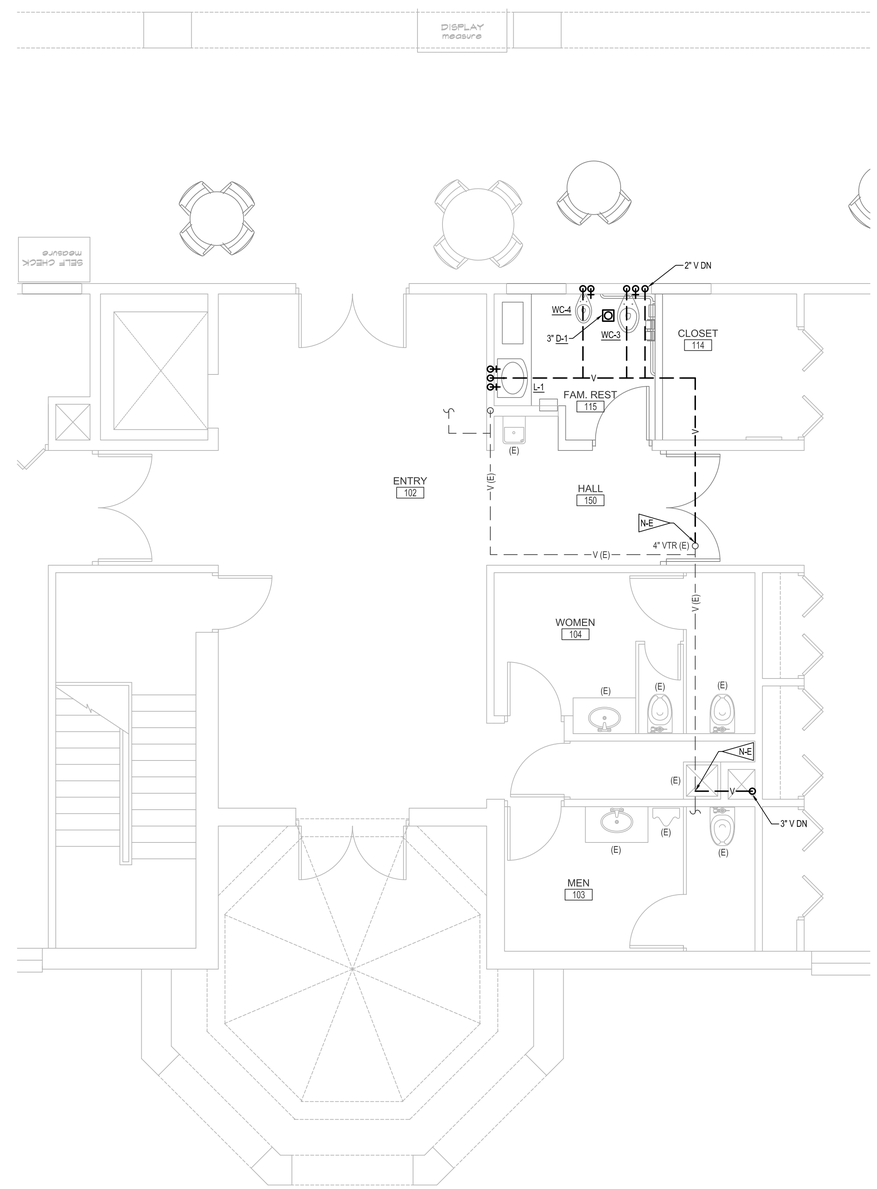
## FLAG NOTES

- N-E: CONNECT NEW TO EXISTING. FIELD VERIFY EXISTING SIZE AND LOCATION PRIOR TO PROVIDING NEW WORK.
- 1: DO NOT ROUTE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS. MAINTAIN CODE REQUIRED CLEARANCES.
- 2: DASHED AREA INDICATES WHERE FLOOR CUTTING WILL BE REQUIRED. REPAIR VAPOR BARRIER PER MANUFACTURER'S REQUIREMENTS. PROVIDE TAPE AS REQUIRED. PATCH FLOOR TO MATCH EXISTING.
- 3: CW UP TO 1ST FLOOR WATER CLOSET. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZING.
- 4: CONNECT NEW 4" SAN TO EXISTING.
- 5: CONNECT NEW CW PIPE TO EXISTING CW SERVING THE FIRST FLOOR BATHROOM GROUP. FIELD VERIFY EXISTING SIZE AND LOCATION PRIOR TO PROVIDING NEW WORK.
- 6: 4" SAN UP TO 1ST FLOOR WATER CLOSET.
- 7: 2" SAN, 1/2" CW, 1/2" HW UP TO 1ST FLOOR LAVATORY.




## M1 ENLARGED BASEMENT FLOOR PLAN - PLUMBING

M3.1 SCALE: 1/4" = 1'-0"




## M10 ENLARGED FIRST FLOOR PLAN - PLUMBING

M3.1 SCALE: 1/4" = 1'-0"

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PROJECT NUMBER: 12027

DATE: 11/15/2013


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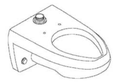
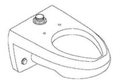
ENLARGED PLUMBING PLANS

M3.1

# PLUMBING FIXTURE SCHEDULE (1)

| TAG | FIXTURE (2) | FAUCET/ FLUSHVALVE/ ACCESSORY (2) | DESCRIPTION | CONNECTIONS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CW | HW | WASTE | VENT |
| WC-1 |  MODEL: KOHLER K-4325 "KINGSTON" | MODEL: SLOAN REGAL OPTIMA 111-SMO-XL | DESCRIPTION: ELONGATED, SIPHON JET BOWL, WALL MOUNTED, BACK OUTLET WATER CLOSET WITH FLUSHOMETER.<br>ADA COMPLIANT: YES<br>COLOR: WHITE<br>FLUSHOMETER: TOP SPUD. 1.6 GALLONS PER FLUSH.<br>FLUSHOMETER FINISH: POLISHED CHROME.<br>FLUSHOMETER OPERATION: BATTERY POWERED, SENSOR ACTUATION, AUTOMATIC FLUSH SYSTEM.<br>SEAT: WHITE ELONGATED, OPEN FRONT WITHOUT COVER, SEAT WITH CHECK HINGE.<br>RIM HEIGHT: 17.5"-18"<br>FIXTURE SHALL BE MaP TESTED FOR A MINIMUM OF 1,000 GRAMS PER FLUSH. | 1-1/4" | - | 4" | 2" |
| | | | | REMARKS: | | | |
| WC-2 |  MODEL: KOHLER K-4325 "KINGSTON" | MODEL: SLOAN REGAL OPTIMA 111-SMO-XL | DESCRIPTION: ELONGATED, SIPHON JET BOWL, WALL MOUNTED, BACK OUTLET WATER CLOSET WITH FLUSHOMETER.<br>ADA COMPLIANT: NOT REQUIRED<br>COLOR: WHITE<br>FLUSHOMETER: TOP SPUD. 1.6 GALLONS PER FLUSH.<br>FLUSHOMETER FINISH: POLISHED CHROME.<br>FLUSHOMETER OPERATION: BATTERY POWERED, SENSOR ACTUATION, AUTOMATIC FLUSH SYSTEM.<br>SEAT: WHITE ELONGATED, OPEN FRONT WITHOUT COVER, SEAT WITH CHECK HINGE.<br>RIM HEIGHT: 14"-15.5"<br>FIXTURE SHALL BE MaP TESTED FOR A MINIMUM OF 1,000 GRAMS PER FLUSH. | CW | HW | WASTE | VENT |
| | | | | 1-1/4" | - | 4" | 2" |
| | | | | REMARKS: | | | |
| WC-3 | MODEL: KOHLER K-4368 "HIGHCLIFF" | MODEL: SLOAN REGAL OPTIMA 111-SMO-XL | DESCRIPTION: ELONGATED, SIPHON JET BOWL, FLOOR MOUNTED, FLOOR OUTLET WATER CLOSET WITH FLUSHOMETER.<br>ADA COMPLIANT: YES<br>COLOR: WHITE<br>FLUSHOMETER: TOP SPUD. 1.6 GALLONS PER FLUSH.<br>FLUSHOMETER FINISH: POLISHED CHROME.<br>FLUSHOMETER OPERATION: BATTERY POWERED, SENSOR ACTUATION, AUTOMATIC FLUSH SYSTEM.<br>SEAT: WHITE, ELONGATED, OPEN FRONT WITHOUT COVER, SEAT WITH CHECK HINGE.<br>RIM HEIGHT: 17.5"-18"<br>FIXTURE SHALL BE MaP TESTED FOR A MINIMUM OF 800 GRAMS PER FLUSH. | CW | HW | WASTE | VENT |
| | | | | 1-1/4" | - | 4" | 2" |
| | | | | REMARKS: | | | |
| WC-4 | MODEL: AMERICAN STANDARD 2282.001 "BABY DEVORO" | | DESCRIPTION: ROUND FRONT, FLOOR MOUNTED, FLOOR OUTLET WATER CLOSET WITH FLUSHOMETER.<br>ADA COMPLIANT: NOT REQUIRED<br>COLOR: WHITE<br>FLUSHOMETER: TOP SPUD. 1.6 GALLONS PER FLUSH.<br>FLUSHOMETER FINISH: POLISHED CHROME.<br>FLUSHOMETER OPERATION: BATTERY POWERED, SENSOR ACTUATION, AUTOMATIC FLUSH SYSTEM.<br>SEAT: WHITE, OPEN FRONT WITHOUT COVER, SEAT WITH CHECK HINGE.<br>RIM HEIGHT: 10-1/4"<br>FIXTURE SHALL BE MaP TESTED FOR A MINIMUM OF 800 GRAMS PER FLUSH. | CW | HW | WASTE | VENT |
| | | | | 1/2" | - | 4" | 2" |
| | | | | REMARKS: | | | |
| UR-1 | MODEL: KOHLER K-4960-ET "BARDON SUPERIOR" | MODEL: SLOAN REGAL OPTIMA 186-1.0-SMO-XL | DESCRIPTION: WASHDOWN, WALL HANGING, WALL OUTLET WITH URINAL FLUSHOMETER.<br>ADA COMPLIANT: YES<br>COLOR: WHITE<br>FLUSHOMETER: TOP SPUD. 1.0 GALLONS PER FLUSH.<br>FLUSHOMETER FINISH: POLISHED CHROME.<br>FLUSHOMETER OPERATION: BATTERY POWERED, SENSOR ACTUATION, AUTOMATIC FLUSH SYSTEM.<br>RIM HEIGHT: 17" | CW | HW | WASTE | VENT |
| | | | | 3/4" | - | 2" | 1-1/2" |
| | | | | REMARKS: | | | |
| UR-2 | MODEL: KOHLER K-4960-ET "BARDON SUPERIOR" | MODEL: SLOAN REGAL OPTIMA 186-1.0-SMO-XL | DESCRIPTION: WASHDOWN, WALL HANGING, WALL OUTLET WITH URINAL FLUSHOMETER.<br>ADA COMPLIANT: NOT REQUIRED<br>COLOR: WHITE<br>FLUSHOMETER: TOP SPUD. 1.0 GALLONS PER FLUSH.<br>FLUSHOMETER FINISH: POLISHED CHROME.<br>FLUSHOMETER OPERATION: BATTERY POWERED, SENSOR ACTUATION, AUTOMATIC FLUSH SYSTEM.<br>RIM HEIGHT: 24" | CW | HW | WASTE | VENT |
| | | | | 3/4" | - | 2" | 1-1/2" |
| | | | | REMARKS: | | | |
| L-1 | MODEL: KOHLER K-2196 "PENNINGTON" | MODEL: SLOAN OPTIMA EBF-85 | DESCRIPTION: COUNTERTOP LAVATORY WITH BATTERY POWERED SENSOR FAUCET.<br>ADA COMPLIANT: YES.<br>COLOR: WHITE.<br>FIXTURE DIMENSIONS: 20-1/4" X 17-1/2" OVAL<br>CONSTRUCTION: FAUCET INLET SPACING TO MATCH LAVATORY OPENINGS.<br>FAUCET VALVE OPERATION: BATTERY POWERED, SENSOR OPERATED.<br>FAUCET ACCESSORIES: BELOW DECK THERMOSTATIC MIXING VALVE.<br>SPOUT: INTEGRAL WITH BODY, VANDAL RESISTANT AERATOR. 1/2-GPM FLOW.<br>DRAIN: GRID STRAINER.<br>ADA INSULATION KIT: PROVIDE SUPPLY AND DRAIN SOFT MOLDED INSULATION KITS FROM FIXTURE TO WALL. COVERINGS TO BE CUSHIONED JACKET PLASTIC COVERING WITH SELF STICKING FASTENING SYSTEM. | CW | HW | WASTE | VENT |
| | | | | 1/2" | 1/2" | 1-1/4" | 1-1/4" |
| | | | | REMARKS: | | | |
| S-1 | MODEL: ELKAY LR-2219 | MODEL: KOHLER K-15888-K "CORALAIS DECORATOR SERIES" | DESCRIPTION: COUNTER MOUNTED 18 GA STAINLESS STEEL SINK W/ GOOSENECK SWING SPOUT.<br>ADA COMPLIANT: NOT REQUIRED<br>FIXTURE DIMENSIONS: SINGLE BOWL 22" X 19" X 7-5/8"<br>CONSTRUCTION: FAUCET INLET SPACING TO MATCH SINK OPENINGS.<br>HANDLE: DOUBLE POLISHED CHROME ADA LEVER HANDLES.<br>SPOUT: GOOSENECK SWING WITH 1-1/2 GPM FLOW AERATOR.<br>DRAIN: 1-1/2" GRID STRAINER WITH 3-1/2" REMOVABLE STAINLESS STEEL CRUMB CUP. | CW | HW | WASTE | VENT |
| | | | | 1/2" | 1/2" | 1-1/2" | 1-1/2" |
| | | | | REMARKS: | | | |

REMARKS:

(1) SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING STOPS, FITTINGS AND ALL OTHER SPECIALTIES.
(2) PICTURES OF FIXTURES DO NOT INDICATE ACTUAL FIXTURE SPECIFIED. PICTURES ARE GRAPHICAL IN NATURE. SEE DESCRIPTION FOR ACTUAL FIXTURE AND MODEL.

# PLUMBING FIXTURE SCHEDULE (1)

| TAG | FIXTURE (2) | FAUCET/ FLUSHVALVE/ ACCESSORY (2) | DESCRIPTION | CONNECTIONS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CW | HW | WASTE | VENT |
| MS-1 | MODEL: WILLIAMS SB-900 "SERVICECEPTOR" | MODEL: KOHLER K-8908 "KINLOCK" | DESCRIPTION: FLOOR MOUNTED MOP SINK WITH WALL MOUNTED FAUCET.<br>ADA COMPLIANT: NOT REQUIRED<br>FIXTURE DIMENSIONS: 24" x 24"X 12" HIGH<br>FIXTURE CONSTRUCTION: TERRAZZO. RIM GUARD: STAINLESS STEEL.<br>FAUCET: ROUGH CHROME, WIDESPREAD BAST BRASS WITH SUPPLIES 8" ON CENTER.<br>FAUCET MOUNTING: WALL CENTERED ON FIXTURE. FAUCET HANDLE: DUAL LEVER.<br>FAUCET SPOUT: INTEGRAL VACUUM BREAKER. PAIL HOOK, AND HOSE THREAD OUTLET.<br>WALL BRACE: ASSEMBLY WITH WALL BRACKET AND SUPPORT TO FAUCET SPOUT.<br>HOSE HOLDER: E.L. MUSTEE & SONS 65,700; HEAVY DUTY 5/8" DIA, 31" RUBBER HOSE AND SPRING LOADED MOLDED RUBBER HOSE HOLDER ON STAINLESS STEEL WALL PLATE.<br>MOP HANGER: E.L. MUSTEE & SONS 65,600; THREE SPRING-LOADED RUBBER MOP HOLDERS ATTACHED TO STAINLESS STEEL WALL PLATE.<br>WALL GUARD: E.L. MUSTEE & SONS 67.2424; 12" HIGH, 20 GAUGE, #304 STAINLESS STEEL WALL GUARD. | 3/4" | 3/4" | 3" | 1-1/2" |
| | | | | REMARKS: | | | |
| D-1 | MODEL: J.R. SMITH #2005 | | DESCRIPTION: FLOOR DRAIN WITH CAST IRON BODY, FLASHING COLLAR, 6" ROUND ADJUSTABLE NICKEL BRONZE GRATE. | | | | |

REMARKS:

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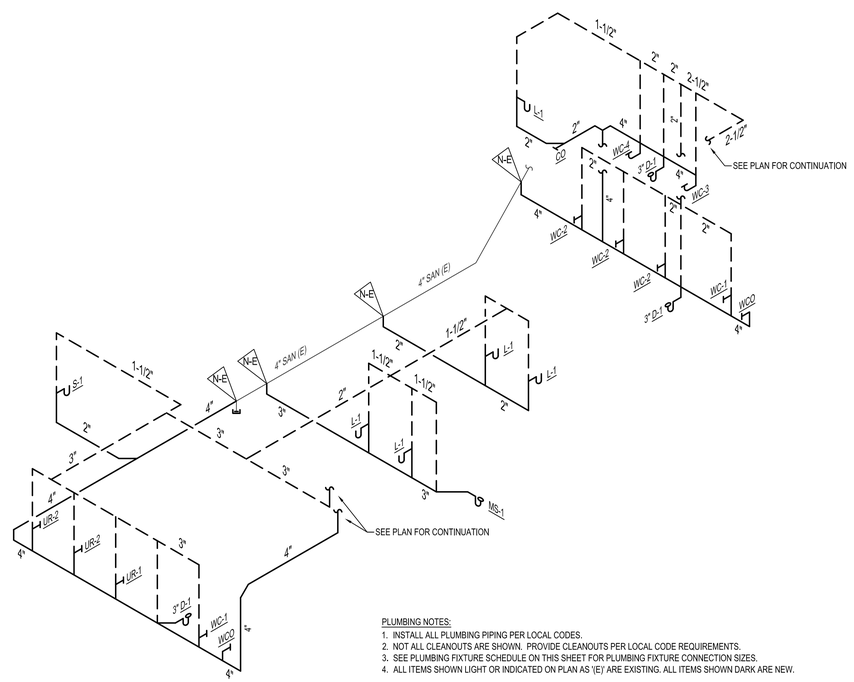


PLUMBING NOTES:
1. INSTALL ALL PLUMBING PIPING PER LOCAL CODES.
2. NOT ALL CLEANOUTS ARE SHOWN. PROVIDE CLEANOUTS PER LOCAL CODE REQUIREMENTS.
3. SEE PLUMBING FIXTURE SCHEDULE ON THIS SHEET FOR PLUMBING FIXTURE CONNECTION SIZES.
4. ALL ITEMS SHOWN LIGHT OR INDICATED ON PLAN AS \(E)/ ARE EXISTING. ALL ITEMS SHOWN DARK ARE NEW.

FLAG NOTES

N-E — CONNECT NEW TO EXISTING. FIELD VERIFY EXISTING SIZE AND LOCATION PRIOR TO PROVIDING NEW WORK.

## M10 WASTE AND VENT RISER DIAGRAM

M3.2 SCALE: NO SCALE

# Beatrice Public Library Renovation

100 N. 16th Street
Beatrice, NE 68310

MEI PROJECT NO.: 12248


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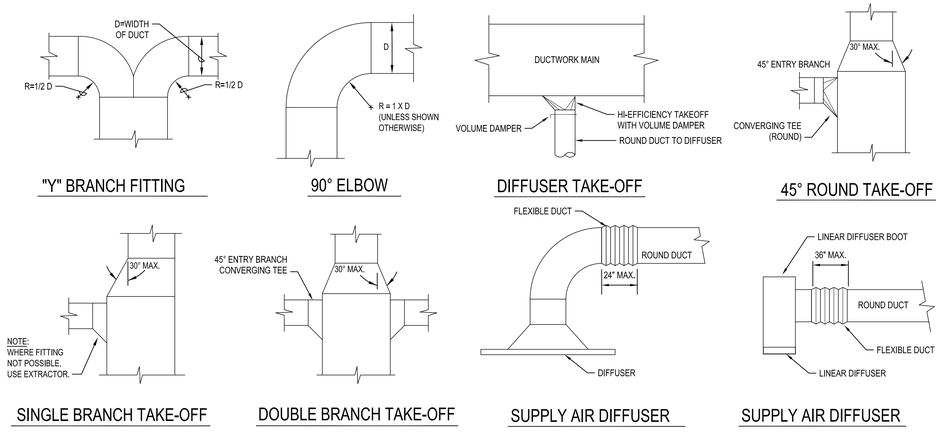
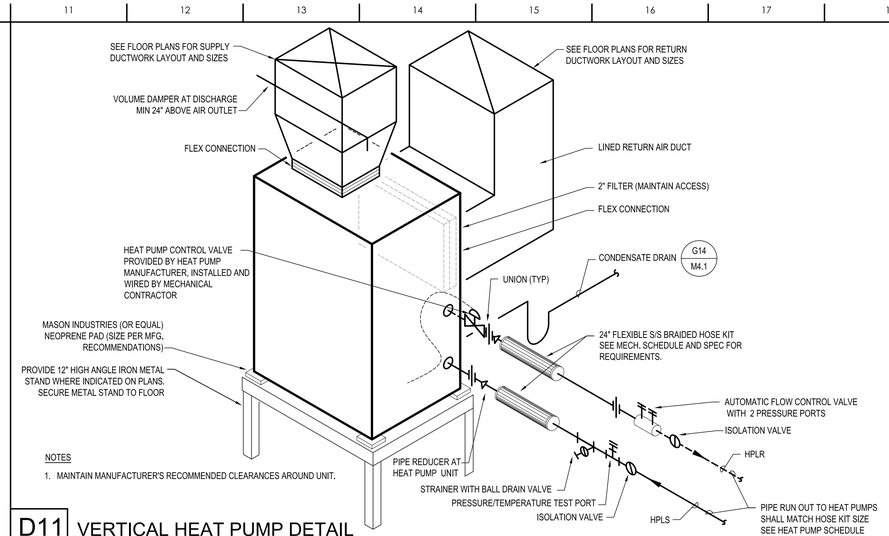
PLUMBING FIXTURE SCHEDULE AND WASTE AND RISER DIAGRAM

M3.2




## D1 DUCT FITTINGS DETAIL

M4.1 SCALE: NO SCALE




NOTES

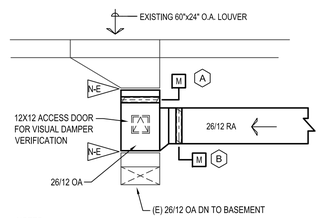
1. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AROUND UNIT.

## D11 VERTICAL HEAT PUMP DETAIL

M4.1 SCALE: NO SCALE

## G1 NOT USED

M4.1 SCALE: NO SCALE

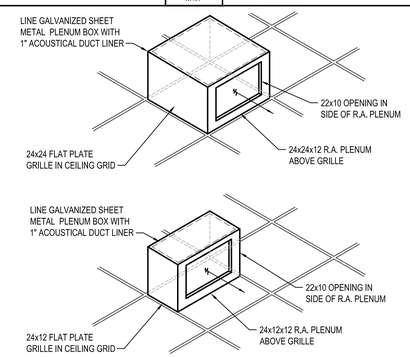



NOTES:

1. NEW CONTROL DAMPERS SHALL BE RUSKIN (OR EQUAL) MODEL NO: CD35 LOW LEAKAGE. (OPPOSED BLADE DAMPERS)
2. DAMPER (A) POWER OPEN SPRING CLOSED
   DAMPER (B) POWER CLOSE SPRING OPEN

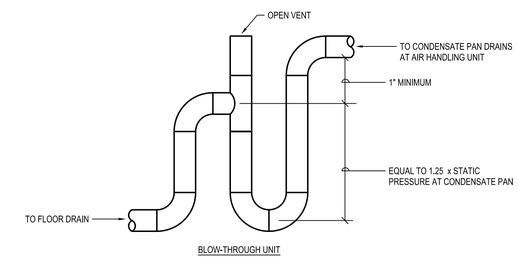
## G6 OUTSITE AIR DAMPER

M4.1 SCALE: NO SCALE




## G9 RETURN AIR BOOT DETAILS

M4.1 SCALE: NO SCALE

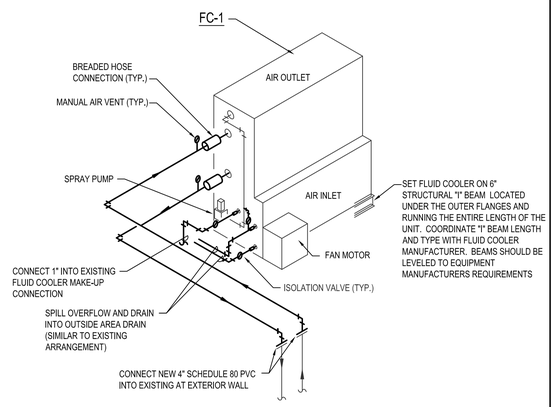



## G14 HEAT PUMP CONDENSATE DETAIL

M4.1 SCALE: NO SCALE

## MECHANICAL SYMBOLS

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|---|---|---|---|
| | **TYPICAL PIPING** | | |
| | PIPE TEE / PIPE ELBOW | | UNION |
| | ELBOW DN / ELBOW UP | | STRAINER WITH BLOWDOWN |
| | ISOLATION VALVE (BALL OR BUTTERFLY) | | CHECK VALVE (ARROW INDICATES FLOW) |
| | BALANCING VALVE | | AUTOMATIC CONTROL VALVE TWO-WAY / THREE WAY |
| P.T.T. | PRESSURE/TEMPERATURE TEST PORT | | THERMOMETER |
| | **PLUMBING** | | |
| | DOMESTIC COLD WATER (CW) | 2" D-1 | FLOOR DRAIN - SIZE TYPE |
| | DOMESTIC HOT WATER (HW) (NUMBER INDICATES TEMPERATURE) | VTR | VENT THROUGH ROOF |
| | DOMESTIC HOT WATER CIRCULATION (HWC) (NUMBER INDICATES TEMPERATURE) | I.E. | I.E. INVERT ELEVATION |
| | SANITARY WASTE (BELOW GRADE) | F.L. | FLOW LINE |
| | SANITARY WASTE (ABOVE GRADE) | WC | WATER CLOSET (SEE SPECIFICATIONS FOR TYPE) |
| | VENT PIPING | UR | URINAL (SEE SPECIFICATIONS FOR TYPE) |
| SAN | SITE SANITARY PIPING | LAV | LAVATORY (SEE SPECIFICATIONS FOR TYPE) |
| ST | SITE STORM PIPING | S | SINK (SEE SPECIFICATIONS FOR TYPE) |
| W | SITE WATER PIPING | EWC | ELECTRIC WATER COOLER (SEE SPECIFICATIONS FOR TYPE) |
| | | MS | MOP SINK (SEE SPECIFICATIONS FOR TYPE) |
| | **HVAC** | | |
| 6x6 D-1 / 100 | SIDEWALL SUPPLY REGISTER OR GRILLE (NECK SIZE (IN); TAG / AIRFLOW (CFM)) | S | SENSOR |
| 6x6 R-1 / 100 | SIDEWALL RETURN OR EXHAUST REGISTER OR GRILLE (NECK SIZE (IN); TAG / AIRFLOW (CFM)) | T | THERMOSTAT |
| 8'X8' D-1 / 100 | SUPPLY AIR REGISTER (NECK SIZE (IN); TAG / AIRFLOW (CFM)) | H | HUMIDISTAT |
| | SUPPLY AIR, OUTSIDE AIR OR MIXED AIR DUCT END OR RISER UP / RISER DN | M | MOTORIZED CONTROL DAMPER WITH ACTUATOR |
| | | B.D.D. | BACKDRAFT DAMPER |
| | | V.D. | VOLUME DAMPER |
| | | F.S.D. | FIRE DAMPER WITH SLEEVE AND ACCESS DOOR |
| | RETURN AIR, EXHAUST AIR OR RELIEF AIR DUCT END OR RISER UP / RISER DN | S.D. | SMOKE DAMPER WITH SLEEVE AND ACCESS DOOR |
| | | F.S.D. | FIRE/SMOKE DAMPER WITH SLEEVE AND ACCESS DOOR |
| | | S.A. | SUPPLY AIR |
| 12"8 | RECTANGULAR DUCTWORK (WIDTH'DEPTH')(IN) (FIRST NUMBER IS SIDE SHOWN) | R.A. | RETURN AIR |
| | | E.A. | EXHAUST AIR |
| 12"Ø | ROUND DUCTWORK (DIAMETER)(IN) (SPIRAL DUCT IN EXPOSED AREAS) | RLF.A. | RELIEF AIR |
| | | O.A. | OUTSIDE AIR |
| | TURNING VANES | M.A. | MIXED AIR |
| | **FIRE PROTECTION** | | |
| F | FIRE SPRINKLER PIPING | FH | FIRE HYDRANT |
| SP | STANDPIPE PIPING | PIV | POST INDICATOR VALVE |
| | SPRINKLER BRANCH AND HEADS | | ALARM CHECK VALVE |
| FS | FLOW SWITCH | | O.S&Y VALVE |

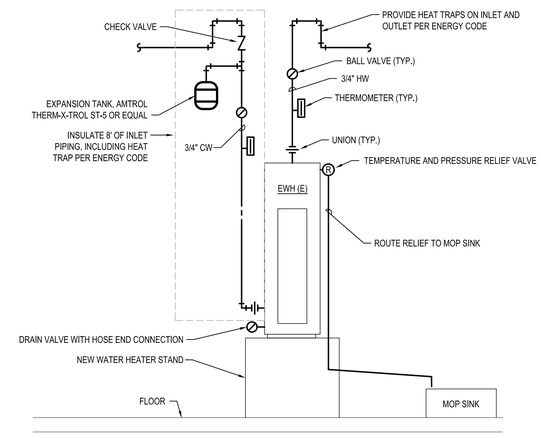



NOTES:

1. MAINTAIN ALL ACCESS REQUIREMENTS AROUND NEW FLUID COOLER.
2. NEW FLUID COOLER MAKE-UP WATER AND SEASONAL TOWER DRAIN DOWN SHALL MATCH EXISTING PROCEDURES.
3. SUPPORT NEW PIPING AS REQUIRED FROM GRADE
4. SET FLUID COOLER ON EXTERIOR VIBRATION PADS MINIMUM 2" ABOVE SLAB

## M8 FLUID COOLER PIPING DETAIL

M4.1 SCALE: NO SCALE




## M13 ELECTRIC WATER HEATER DETAIL

M4.1 SCALE: NO SCALE

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MECHANICAL DETAILS

M4.1

## FLUID COOLER SCHEDULE

| | | | |
|---|---|---|---|
| GENERAL | PLAN TAG | FC-1 | |
| | MANUFACTURER | EVAPCO | |
| | MODEL NUMBER | LSWE 5-3I12 | |
| | SERVES | HPS/R | |
| | CONFIGURATION | (1) | |
| | MAXIMUM SIZE (LxWxH) (FT.) | 12'-0" x 5'-6" x 11'-8" | |
| | MAXIMUM WEIGHT (LBS.) | 10,750 | |
| | ACCESSORIES | (2) | |
| CAPACITY | CAPACITY (TONS) | 67 | |
| | CAPACITY (MBH) | 1,000 | |
| | FLUID TYPE (%) PROPYLENE GLYCOL | - | |
| DESIGN CONDITIONS WET OPERATION | WATER FLOW (GPM) | 200 | |
| | PRESSURE DROP THROUGH COIL (FT HD) | 1.2 | |
| | ENTERING WATER TEMP. (ºF) | 100.0 | |
| | LEAVING WATER TEMP. (ºF) | 90.0 | |
| | ENTERING WET BULB TEMP. (ºF) | 78.0 | |
| | DRY BULB SWITCHOVER TEMP (ºF) | - | |
| FAN MOTOR | RPM | 1,750 | |
| | HP | 10 | |
| | VOLTS | 200 | |
| | PHASE | 3 | |
| | TYPE | (4) | |
| | CONTROL DEVICE | VFD-FC1 | |
| | REMARKS | - | |
| PUMP MOTOR | HP | 2 | |
| | VOLTS / PHASE | 200/3 | |
| | TYPE | - | |
| | CONTROL DEVICE | (3) | |
| | REMARKS | - | |
| REMARKS | 1. INDUCED DRAFT, COUNTERFLOW CLOSED CIRCUIT FLUID COOLER<br>2. COLLECTION BASIN MATERIAL 304 STAINLESS STEEL<br>3. BUILDING AUTOMATION SYSTEM.<br>4. INVERTER DUTY MOTOR FOR VARIABLE FREQUENCY DRIVE OPERATION. | | |

## WATER SOURCE HEAT PUMP (100% OUTSIDE AIR)

| | | | | |
|---|---|---|---|---|
| GENERAL | PLAN TAG | | DOAU-1 | |
| | MANUFACTURER | | FHP | |
| | MODEL NUMBER | | EC096-3VTC | |
| | SERVES | | OUTSIDE AIR | |
| | CONFIGURATION | | VERTICAL | |
| | MAXIMUM SIZE (LxWxH) (IN.) | | 42" x 32" x 62" | |
| | WEIGHT (LBS) | | 650 | |
| | ACCESSORIES | | (1) (2) (3) (4) | |
| OUTDOOR AIR CONDITIONS | SUMMER | * F db | 95.0 | |
| | | * F wb | 78.0 | |
| | WINTER | * F db | 40.0 | |
| | | * F wb | - | |
| AIR FLOW CFM | OUTSIDE AIR / SUPPLY AIR (CFM) | | 1,200 | |
| | | | | |
| COOLING (WSHP) | LAT | Db (°F) | 53.0 | |
| | | Wb (°F) | 53.0 | |
| | CAPACITY (MBH) | | 100.3 | |
| REHEAT (HGRH) | LAT (°F) Db | | 65.0 | |
| | LEAVING (Db / Wb) | | 70.0 / 59.7 | |
| HEATING (WSHP) | LAT (°F) Db | | 88.7 | |
| | CAPACITY (MBH) | | 65.2 | |
| FAN | SUPPLY FAN W / VFD | E.S.P. (IN. W.C.) | 0.75 | |
| | | HP | 1.5 | |
| | | RPM | 1,750 | |
| ELECTRIC | VOLTS / PHASE | | 200 / 3 | |
| | MAXIMUM FUSE SIZE (AMPS) | | 40 | |
| | MINIMUM CIRCUIT AMPACITY (MCA) | | 29.6 | |
| WATER | WATER FLOW (GPM) | | 21.0 | |
| | MAX. WATER PRESSURE DROP (FEET) | | 15.5 | |
| | CONDENSER WATER RUNOUT SIZE (3) | | 1.5 | |

(1) 100% OUTDOOR AIR WATER SOURCE HEAT PUMP UNIT WITH:
- DUAL COMPRESSORS
- DUAL EVAP COILS ARRANGED SERIES - 6 ROWS
- HOT GAS BY-PASS (BOTH CIRCUITS)
- MODULATING HOT GAS REHEAT
- STAINLESS STEEL DRAIN PAN

(2) PROVIDE WITH MOTORIZED CONDENSER WATER VALVE
(3) PROVIDE WITH BREADED HOSE KIT AND ACCESSORIES. SEE HEAT PUMP SPECIFICATIONS FOR REQUIREMENTS.
(4) SEE HEAT PUMP SPECIFICATIONS FOR ADDITIONAL INFORMATION

## WATER SOURCE HEAT PUMP SCHEDULE

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GENERAL | PLAN TAG | VHP-1.0 | VHP-2.0 | VHP-3.0 | VHP-4.0 | VHP-5.0 | | | |
| | MANUFACTURER | FHP | FHP | FHP | FHP | FHP | | | |
| | MODEL NUMBER | EC-012 | EC-024 | EC-036 | EC-048 | EC-060 | | | |
| | SERVES | SEE PLANS | SEE PLANS | SEE PLANS | SEE PLANS | SEE PLANS | | | |
| | CONFIGURATION | VERTICAL | VERTICAL | VERTICAL | VERTICAL | VERTICAL | | | |
| | MAXIMUM SIZE (LxWxH)(IN) | 19Lx19Wx25H | 22Lx22Wx37H | 26Lx22Wx44H | 33Lx24Wx46H | 33Lx24Wx46H | | | |
| | MAXIMUM WEIGHT (LBS.) | 130 | 250 | 275 | 325 | 350 | | | |
| | REMARKS | - | - | - | - | - | | | |
| WATER | WATER FLOW (GPM) | 2.5 | 5.0 | 7.5 | 10.0 | 12.5 | | | |
| | MAX. WATER PRESS. DROP (FEET) | 8.5 | 9.2 | 6.8 | 7.6 | 8.0 | | | |
| | HOSE KIT SIZE (IN) (3) | 3/4 | 3/4 | 1" | 1" | 1-1/4" | | | |
| AIRFLOW (4) | TOTAL AIRFLOW (CFM) (BLOWER SPEED) (4) | 350 (M) | 700 (M) | 1,050 (M) | 1,400 (M) | 1,750 (H) | | | |
| | MINIMUM OUTSIDE AIRFLOW (CFM) | SEE PLANS | SEE PLANS | SEE PLANS | SEE PLANS | SEE PLANS | | | |
| | EXTERNAL STATIC PRESSURE (IN. WC) | 0.40 | 0.30 | 0.60 | 0.60 | 0.65 | | | |
| ELECTRICAL | VOLTS | 208 | 208 | 208 | 208 | 208 | | | |
| | PHASE | 1 | 1 | 3 | 3 | 3 | | | |
| | MAXIMUM FUSE SIZE (AMPS) | 15 | 15 | 20 | 25 | 35 | | | |
| | MINIMUM CIRCUIT AMPACITY (MCA) | 6.7 | 11.1 | 14.2 | 18.2 | 23.9 | | | |
| | REMARKS | - | - | - | - | - | | | |
| COOLING | ENTERING AIR TEMP. (DB/WB)(ºF) | 80.0/67.0 | 80.0/67.0 | 80.0/67.0 | 80.0/67.0 | 80.0/67.0 | | | |
| | MINIMUM UNIT PERFORMANCE (6) | 11.1 | 14.3 | 13.7 | 13.1 | 12.6 | | | |
| | TOTAL COOLING (MBH) | 10.4 | 24.1 | 35.8 | 47.2 | 60.1 | | | |
| | SENSIBLE COOLING (MBH) | 8.1 | 17.5 | 26.7 | 35.3 | 42.9 | | | |
| | ENTERING WATER TEMP. (ºF) | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | | | |
| | LEAVING WATER TEMP. (ºF) | 100.7 | 101.5 | 101.7 | 101.7 | 102.1 | | | |
| HEATING | ENTERING AIR TEMP. (ºF) | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | | | |
| | MINIMUM HEATING CAPACITY (MBH) | 12.2 | 26.7 | 40.1 | 54.1 | 73.8 | | | |
| | ENTERING WATER TEMP. (ºF) | 70.0 | 70.0 | 70.0 | 70.0 | 70.0 | | | |
| | LEAVING WATER TEMP. (ºF) | 53.5 | 52.5 | 52.7 | 52.0 | 55.2 | | | |

REMARKS

1. PROVIDE WITH:
   - 2" FILTER HOUSING WITH MERV-11 HIGH EFFICIENCY FILTERS
   - STAINLESS STEEL DRAIN PAN
   - FLOATING BASE PAN (ISOLATES COMPRESSOR AND UNIT HOUSING.)
   - COMPRESSOR BLANKET (SOUND PACKAGE.)
2. FACTORY MOTORIZED CONDENSER WATER AND VALVE RELAY .
3. PROVIDE WITH BREADED HOSE KIT AND ACCESSORIES. SEE HEAT PUMP SPECIFICATIONS FOR REQUIREMENTS.
4. FAN SPEED (L) LOW FAN SPEED, (M) MEDIUM FAN SPEED, (H) HIGH FAN SPEED.

## HEATING COIL SCHEDULE

| | | | |
|---|---|---|---|
| GENERAL | PLAN TAG | EDH-1 | |
| | MANUFACTURER | INDEECO | |
| | MODEL NUMBER | - | |
| | SERVES | DOAU-1 | |
| | APPROXIMATE SIZE (LxW)(IN) | 24x12 | |
| | TYPE | FINNED TUBULAR | |
| | MAX. FINS PER INCH | - | |
| | REMARKS | (2) | |
| AIR | AIRFLOW (CFM) | 1,200 | |
| | MAX. FACE VELOCITY | 600 | |
| | MAX. AIR PRESSURE DROP (IN, WG) | 0.1 | |
| | ENTERING AIR TEMP (ºF) | -10.0 | |
| | LEAVING AIR TEMP (ºF) | 40.0 | |
| | TOTAL CAPACITY (MBH) | 64.8 | |
| | REMARKS | - | |
| ELECTRIC | VOLTAGE/PHASE | 208 / 3 | |
| | CAPACITY (KW) | 20 | |
| | NUMBER OF STAGES | SCR | |
| | KW PER STAGE | - | |
| | REMARKS | (1) | |
| REMARKS | (1) PROVIDE WITH:<br>- FACTORY SCR CONTROLS<br>(2) FLANGED HEATER | | |

## VARIABLE FREQUENCY DRIVE SCHEDULE

| | | | | |
|---|---|---|---|---|
| GENERAL | MARK | VFD-FC1 | | |
| | SERVES | FC-1 | | |
| | LOCATION | SEE PLANS | | |
| ELECTRICAL | MIN. DRIVE CAPACITY (AMPS) | - | | |
| | VOLTAGE | 200 | | |
| | PHASE | 3 | | |
| | CONNECTED MOTOR HP | 10 | | |
| | MOTOR TYPE | - | | |
| | REMARKS | (1) (2) (3) | | |
| REMARKS | 1. DRIVE SHALL BE COMPATIBLE WITH MOTOR AND APPLICATION.<br>2. COMBINATION VFD/DISCONNECT, FUSES, AND HOA SWITCH.<br>3. DRIVE BYPASS REQUIRED. | | | |

## DIFFUSER REGISTER AND GRILLE SCHEDULE

| PLAN TAG | D-1 | D-2 | D-3 | LD-1 | LD-2 | LD-3 | R-1 | G-1 | G-2 | E-1 |
|---|---|---|---|---|---|---|---|---|---|---|
| MANUFACTURER | PRICE | PRICE | PRICE PRODIGY | PRICE | PRICE | PRICE | PRICE | PRICE | PRICE | PRICE |
| MODEL NUMBER | SPD | SPD | PPD2 | AS | AS | AS | 520 - S | PDDR | PDDR | 530 |
| FUNCTION | SUPPLY | SUPPLY | SUPPLY AIR | SUPPLY AIR | SUPPLY AIR | RETURN AIR | SUPPLY | RETURN | RETURN | EXHAUST |
| DESCRIPTION | FLAT PLATE | FLAT PLATE | FLAT PLATE | (5) (6) | (5) | (5) | REGISTER | PERF. GRILLE | PERF. GRILLE | LOUVERED |
| DEFLECTION | 360° | 360° | 4-WAY | ADJ. | ADJ. | ADJ. | DOUBLE | - | - | 45° |
| MAX STATIC PRESSURE (IN W.G.) | 0.10 | 0.10 | 0.10 | 0.08 | 0.08 | 0.08 | .10 | 0.08 | 0.08 | .10 |
| CONSTRUCTION MATERIAL | STEEL | STEEL | STEEL | ALUMINUM | ALUMINUM | ALUMINUM | STEEL | STEEL | STEEL | ALUMINUM |
| FINISH | WHITE | WHITE | WHITE | WHITE | WHITE | WHITE | WHITE | WHITE | WHITE | WHITE |
| NECK SIZE (IN) | SEE PLANS | SEE PLANS | SEE PLANS | - | - | - | SEE PLANS | 20x20 | 20x10 | SEE PLANS |
| FACE SIZE (IN) | 24x24 | 12x12 (4) | 24x24 | - | - | - | SEE PLANS | 24x24 | 24x12 | SEE PLANS |
| ACCESSORIES | O.B.D. (3) | O.B.D. (3) | (10) | (7) | (8) | (9) | O.B.D. | - | - | O.B.D. |
| REMARKS (1) (2) | - | - | - | - | - | - | - | - | - | - |

REMARKS

1. VERIFY CEILING CONSTRUCTION PRIOR TO FURNISHING MATERIAL.
2. NOISE CRITERIA (NC) SHALL BE LESS THAN 25 ON DIFFUSERS, REGISTERS AND GRILLES IN LOCATED OCCUPIED SPACES.
3. PROVIDE WITH VCR8 BUTTERFLY VOLUME CONTROL DAMPER.
4. PROVIDE WITH 24x12 LAY-IN CEILING FACE PLATE
5. SLOT LINEAR
6. COORDINATE LINEAR BORDER TYPE WITH WOOL SLAT CEILING. LINEAR SHALL SET FLUSH WITHIN SLATS AND SHALL BE PRIMED FOR FIELD PAINTING
7. PROVIDE LINEAR SUPPLY WITH:
   - 4'-0" INSULATED PLENUM WITH 8"Ø NECK
   - TWO SLOTS, 1" SLOTS WIDTH, 4'-0" LONG
   - VCR8E, NECK BUTTERFLY DAMPER ADJUSTABLE AT LINEAR FACE
   - BLACK INTERIOR
8. PROVIDE LINEAR SUPPLY WITH:
   - 4'-0" INSULATED PLENUM WITH 8"Ø NECK
   - TYPE 21 EXPOSED FRAME FOR DRYWALL CEILING
   - TWO SLOTS, 1" SLOTS WIDTH, 4'-0" LONG
   - VCR8E, NECK BUTTERFLY DAMPER ADJUSTABLE AT LINEAR FACE
   - BLACK INTERIOR
9. PROVIDE LINEAR RETURN WITH:
   - TYPE 21 EXPOSED FRAME FOR DRYWALL CEILING
   - TWO SLOTS, 1" SLOTS WIDTH, 4'-0" LONG
   - BLACK INTERIOR
   - RETURN AIR - OPTIONAL SIGHT BAFFLE
10. VAV COOLING AND VAV HEATING DIFFUSER WITH 35' PLENUM RATED CABLE, 24 VAC MOTOR WITH TRANSFORMER AND WALL MOUNTED SENSOR

## TEMPERATURE CONTROLS

| Existing Temperature Control System: | FC-1 Fluid Cooler | DOAU-1 Dedicated Outside Air Unit | EHC-1 Electric Heating Coil | A / B Dampers | EF-2 Existing Exhaust Fan | VHP-X Vertical Heat Pumps | (E) P-1A AND P-1B PUMPS |
|---|---|---|---|---|---|---|---|
| EXISTING TEMPERATURE CONTROL SYSTEM:<br><br>LANDIS & GYR installed 7/28/1990<br><br>Installing Contractor:<br>Control Management Inc. Lincoln NE | New Fluid Cooler Operation<br>Fluid cooler operation shall remain same as existing fluid cooler operation. Change fan to operate with a Variable Frequency Drive. Spray pump shall operate as originally programmed<br><br>Fluid Cooler Fan Sequence of Operation:<br>Fluid Cooler fan shall become operational when loop temperature rises above 96 deg F. (adjustable). Variable frequency drive shall start at 25 HZ and ramp up to maintain loop temperature. Reverse order when loop temperature drops.<br><br>Reconnect new spray pump to existing temperature control panel | DOAU-1 Shall be controlled by self contained control system. Self contained controls shall control the following components<br>- compressor operation and staging (heating / cooling)<br>- hot gas reheat (for dehumidification)<br>- compressor reversing valve (heating / cooling)<br><br>Provide discharge temperature sensor<br>Provide wall mounted humidity sensor for hot gas reheat operation<br><br>Summer: Discharge temperature shall be 72 deg. F / 50% RH.<br>Winter: Discharge temperature shall be 72 deg. F.<br><br>Time Clock shall control Occupied / Unoccupied schedule | EHC-1<br>Unit shall become operational when outside temperature fall below 45deg F<br><br>Unit shall be controlled by SCR controls to maintain discharge air temperatue. (40 deg F. adjustable)<br><br>Lock out EHC-1 when outside air temperature is above 45 deg F. | Dampers "A" and "B"<br><br>Damper operation shall be controlled by time clock provided by temperature control contractor. Time clock shall be mounted in lower level mechanical room and shall be easy to operate and program<br><br>Occupied Hours:<br>Damper "A" shall be open and Damper " B" shall be closed (allowing ventilation air into the building)<br><br>Unoccupied Hours:<br>Damper " A" shall be closed and Damper " B" shall be open. (reticulating and dehumidifying air inside facility) | Existing Exhaust Fan shall be controlled by time clock<br><br>Time clock controlling damper operation shall also control exhaust fan operation<br><br>Occupied Hours:<br>exhaust fan operational<br><br>Unoccupied Hours:<br>exhaust fan off | Water source heat pumps shall be controlled by wall mounted programmable thermostat provided by water source heat pump manufacturer. Reference mechanical specifications<br><br>Control wiring and connection to heat pump by temperature control contractor.<br><br>Provide lockable cover over thermostat in public areas | Existing controls for pumps P-1A and P-1B will not change. |

# Beatrice Public Library Renovation

100 N. 16th Street
Beatrice, NE 68310

MEI PROJECT NO.: 12248


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PROJECT NUMBER: 12027

DATE: 11/15/2013


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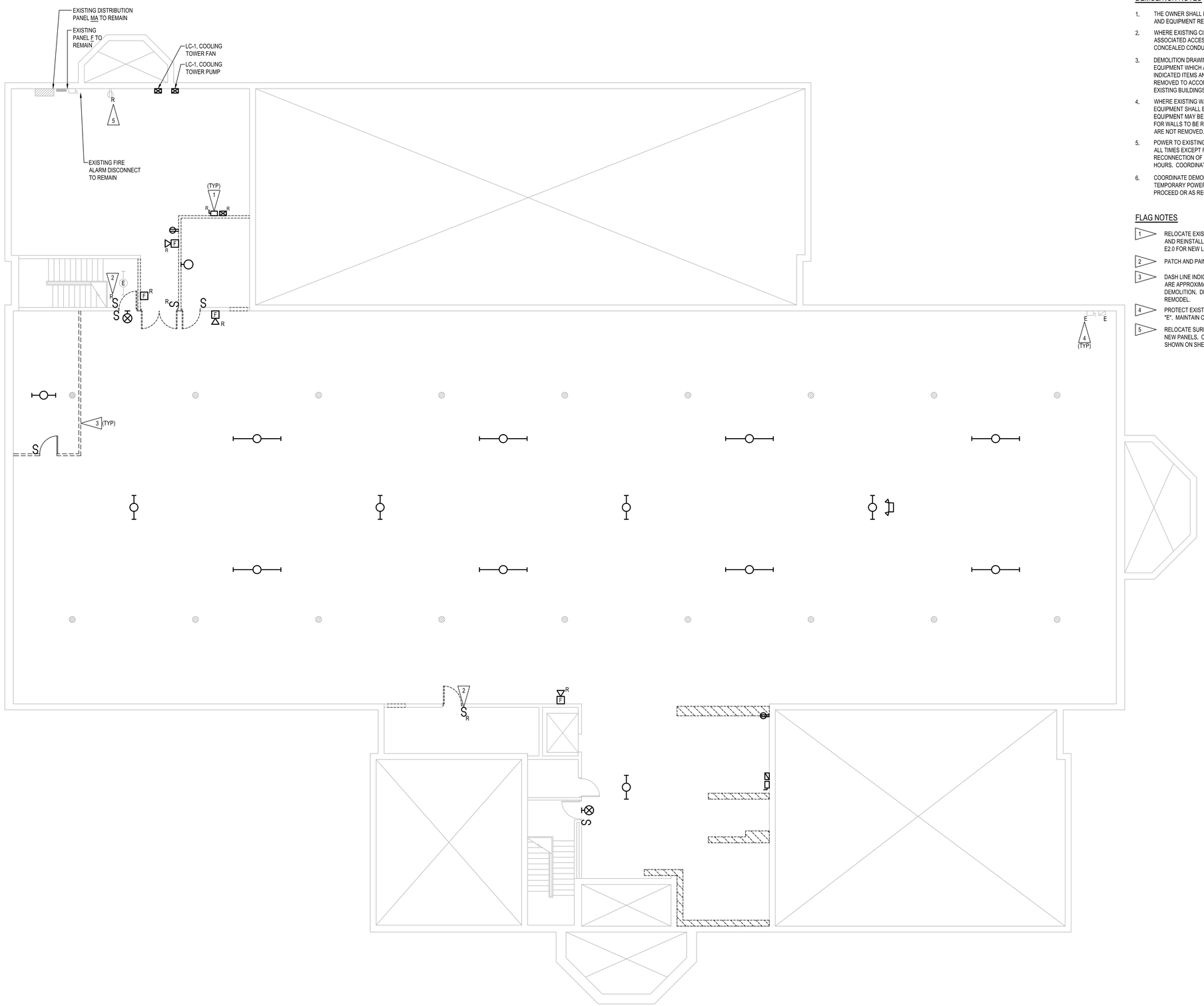
MECHANICAL SCHEDULES

M5.1




## DEMOLITION NOTES

1. THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS TO ALL FIXTURES, DEVICES AND EQUIPMENT REMOVED.
2. WHERE EXISTING CIRCUITS ARE NOT REUSED, REMOVE CONDUCTORS AND ASSOCIATED ACCESSIBLE RACEWAYS BACK TO THE SOURCE. ABANDON CONCEALED CONDUITS IN WALLS WHICH ARE NOT REMOVED.
3. DEMOLITION DRAWINGS INDICATE FIXTURES, DEVICES AND MAJOR PIECES OF EQUIPMENT WHICH ARE TO BE REMOVED OR RECONNECTED. REMOVE INDICATED ITEMS AND ASSOCIATED ITEMS NOT INDICATED BUT WHICH MUST BE REMOVED TO ACCOMMODATE REMODELING. SEE PROJECT MANUAL "WORK IN EXISTING BUILDINGS" FOR ADDITIONAL INFORMATION.
4. WHERE EXISTING WALLS ARE TO BE REMOVED ALL ASSOCIATED ELECTRICAL EQUIPMENT SHALL BE REMOVED. DISCONNECT POWER SO THAT DEVICES AND EQUIPMENT MAY BE REMOVED WITH WALLS. SEE ARCHITECTURAL DRAWINGS FOR WALLS TO BE REMOVED. ABANDON CONCEALED CONDUITS WHERE WALLS ARE NOT REMOVED. REUSE CONDUITS WHERE POSSIBLE.
5. POWER TO EXISTING AREAS NOT BEING REMODELED SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR SHORT TERM OUTAGES NECESSARY FOR RECONNECTION OF EXISTING CIRCUITS. OUTAGES SHALL TAKE PLACE AFTER HOURS. COORDINATE AND SCHEDULE OUTAGES WITH THE OWNER.
6. COORDINATE DEMOLITION WITH THE WORK OF OTHER TRADES. PROVIDE TEMPORARY POWER AS REQUIRED TO ALLOW THE WORK OF OTHER TRADES TO PROCEED OR AS REQUIRED TO ALLOW THE OWNER TO OCCUPY THE SPACE.

## FLAG NOTES

1. RELOCATE EXISTING DEVICE INDICATED WITH SUBSCRIPT "R". REMOVE, STORE AND REINSTALL. SEE SHEET E1.0 FOR NEW LOCATION OF LIGHTING DEVICE AND E2.0 FOR NEW LOCATION OF POWER DEVICE.
2. PATCH AND PAINT WALL TO MATCH EXISTING FINISH.
3. DASH LINE INDICATES EXISTING WALL TO BE REMOVED. WALL LENGTHS SHOWN ARE APPROXIMATE AND SHALL BE COORDINATED WITH ARCHITECT PRIOR TO DEMOLITION. DEMO ALL DEVICES ON EXISTING WALL TO ACCOMMODATE REMODEL.
4. PROTECT EXISTING DEVICE TO REMAIN TO REMAIN INDICATED WITH SUBSCRIPT "E". MAINTAIN CIRCUIT CONTINUITY TO DEVICE.
5. RELOCATE SURFACE MOUNTED CONDUIT FOR RECEPTACLE TO ACCOMMODATE NEW PANELS. COORDINATE ROUTING OF CONDUIT WITH PANEL LOCATIONS SHOWN ON SHEET E2.0.

M1 BASEMENT FLOOR PLAN - ELECTRICAL DEMOLITION

ED1.0 SCALE: 1/8" = 1'-0"

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PROFESSIONAL ARCHITECT ANDREW LANG E-13760 11/15/2013 STATE OF NEBRASKA

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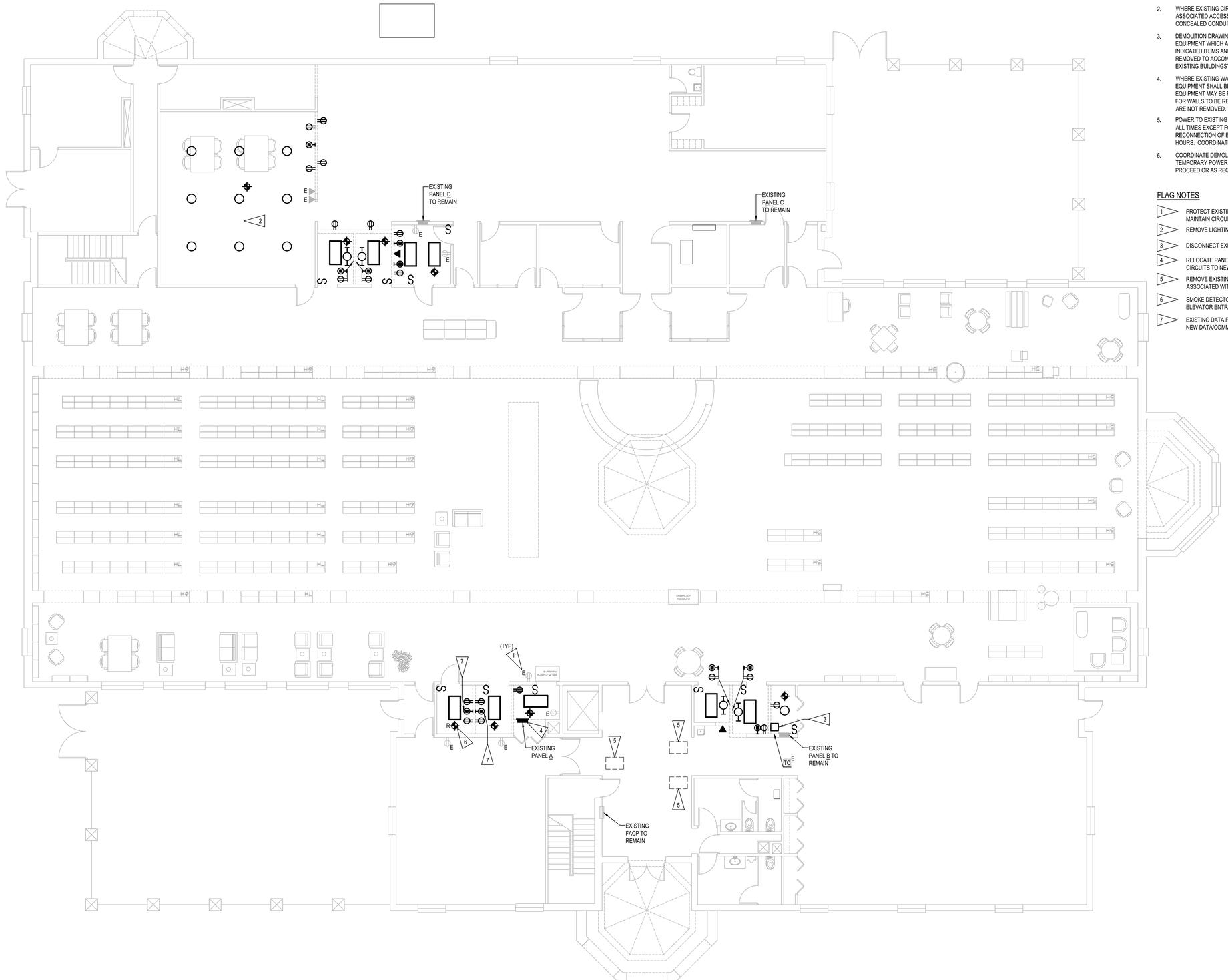
BASEMENT FLOOR PLAN
- ELECTRICAL DEMOLITION

ED1.0




## DEMOLITION NOTES

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2. WHERE EXISTING CIRCUITS ARE NOT REUSED, REMOVE CONDUCTORS AND ASSOCIATED ACCESSIBLE RACEWAYS BACK TO THE SOURCE. ABANDON CONCEALED CONDUITS IN WALLS WHICH ARE NOT REMOVED.
3. DEMOLITION DRAWINGS INDICATE FIXTURES, DEVICES AND MAJOR PIECES OF EQUIPMENT WHICH ARE TO BE REMOVED OR RECONNECTED. REMOVE INDICATED ITEMS AND ASSOCIATED ITEMS NOT INDICATED BUT WHICH MUST BE REMOVED TO ACCOMMODATE REMODELING. SEE PROJECT MANUAL "WORK IN EXISTING BUILDINGS" FOR ADDITIONAL INFORMATION.
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6. COORDINATE DEMOLITION WITH THE WORK OF OTHER TRADES. PROVIDE TEMPORARY POWER AS REQUIRED TO ALLOW THE WORK OF OTHER TRADES TO PROCEED OR AS REQUIRED TO ALLOW THE OWNER TO OCCUPY THE SPACE.

## FLAG NOTES

1. PROTECT EXISTING DEVICE TO REMAIN INDICATED WITH SUBSCRIPT "E". MAINTAIN CIRCUIT CONTINUITY TO DEVICE.
2. REMOVE LIGHTING CONTROLS ASSOCIATED WITH DOWNLIGHTS IN THIS SPACE.
3. DISCONNECT EXISTING A/V EQUIPMENT AND TURN OVER TO OWNER.
4. RELOCATE PANEL. MODIFY FEEDERS AS NECESSARY. EXTEND EXISTING CIRCUITS TO NEW LOCATION.
5. REMOVE EXISTING STARTER, DISCONNECT, AND CIRCUIT BREAKER ASSOCIATED WITH HEAT PUMP.
6. SMOKE DETECTOR SHALL BE RELOCATED TO BASEMENT, ADJACENT TO ELEVATOR ENTRANCE. SEE SHEET E1.0 FOR NEW LOCATION.
7. EXISTING DATA PATHWAY TO REMAIN. REUSE EXISTING DATA PATHWAY FOR NEW DATA/COMM. ROUGH-IN. SEE SHEET E2.1 FOR ADDITIONAL INFORMATION.

M1 FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

ED1.1 SCALE: 1/8" = 1'-0"

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11/15/2013
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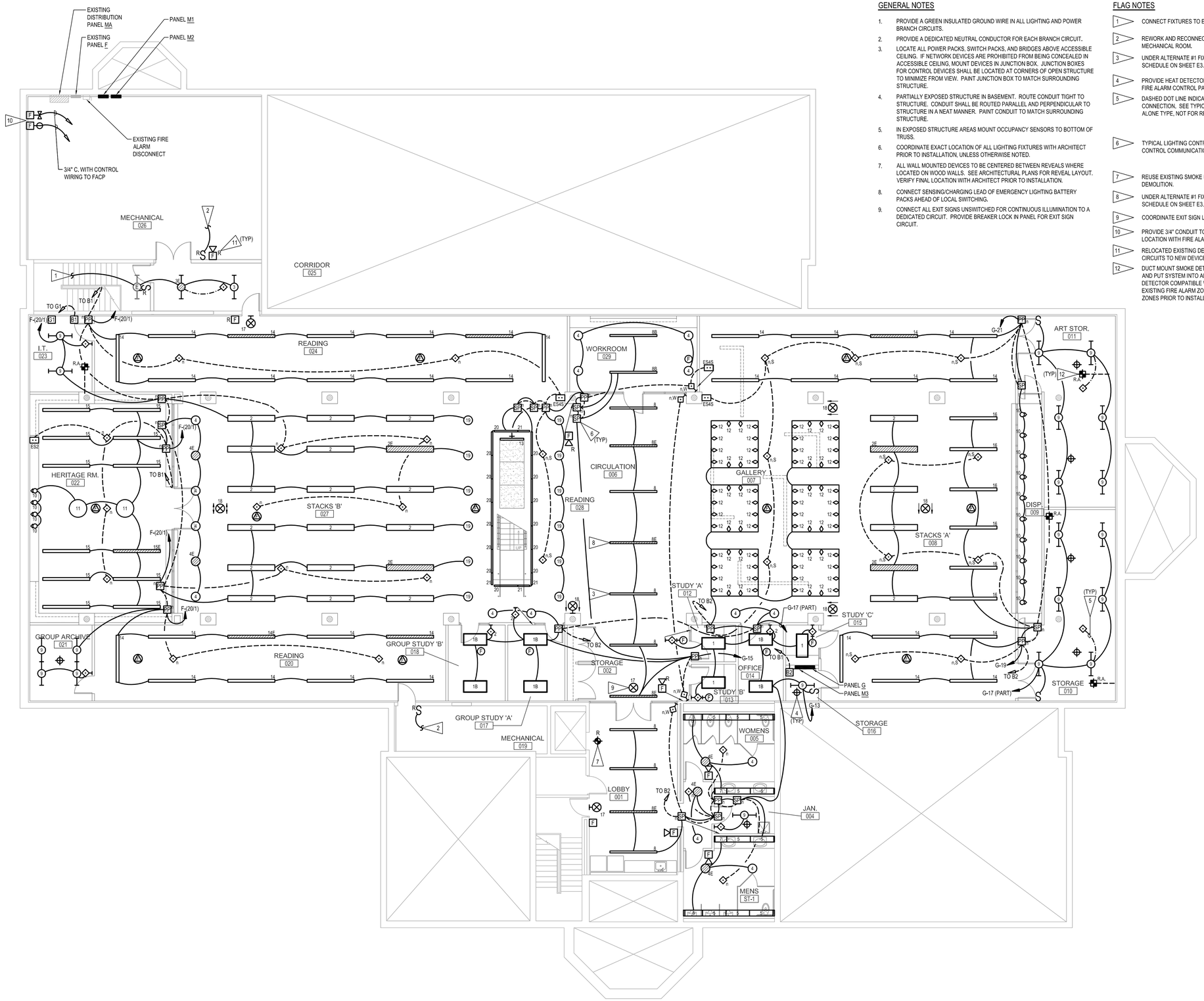
FIRST FLOOR PLAN
- ELECTRICAL DEMOLITION

ED1.1




## GENERAL NOTES

1. PROVIDE A GREEN INSULATED GROUND WIRE IN ALL LIGHTING AND POWER BRANCH CIRCUITS.
2. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
3. LOCATE ALL POWER PACKS, SWITCH PACKS, AND BRIDGES ABOVE ACCESSIBLE CEILING. IF NETWORK DEVICES ARE PROHIBITED FROM BEING CONCEALED IN ACCESSIBLE CEILING, MOUNT DEVICES IN JUNCTION BOX. JUNCTION BOXES FOR CONTROL DEVICES SHALL BE LOCATED AT CORNERS OF OPEN STRUCTURE TO MINIMIZE FROM VIEW. PAINT JUNCTION BOX TO MATCH SURROUNDING STRUCTURE.
4. PARTIALLY EXPOSED STRUCTURE IN BASEMENT. ROUTE CONDUIT TIGHT TO STRUCTURE. CONDUIT SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO STRUCTURE IN A NEAT MANNER. PAINT CONDUIT TO MATCH SURROUNDING STRUCTURE.
5. IN EXPOSED STRUCTURE AREAS MOUNT OCCUPANCY SENSORS TO BOTTOM OF TRUSS.
6. COORDINATE EXACT LOCATION OF ALL LIGHTING FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION, UNLESS OTHERWISE NOTED.
7. ALL WALL MOUNTED DEVICES TO BE CENTERED BETWEEN REVEALS WHERE LOCATED ON WOOD WALLS. SEE ARCHITECTURAL PLANS FOR REVEAL LAYOUT. VERIFY FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
8. CONNECT SENSING/CHARGING LEAD OF EMERGENCY LIGHTING BATTERY PACKS AHEAD OF LOCAL SWITCHING.
9. CONNECT ALL EXIT SIGNS UNSWITCHED FOR CONTINUOUS ILLUMINATION TO A DEDICATED CIRCUIT. PROVIDE BREAKER LOCK IN PANEL FOR EXIT SIGN CIRCUIT.

## FLAG NOTES

1. CONNECT FIXTURES TO EXISTING LIGHTING CIRCUIT SERVING AREA.
2. REWORK AND RECONNECT TOGGLE SWITCH TO EXISTING LIGHTING CIRCUIT IN MECHANICAL ROOM.
3. UNDER ALTERNATE #1 FIXTURE SHALL BE TYPE 22. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E3.2 FOR FIXTURE CATALOG INFORMATION.
4. PROVIDE HEAT DETECTOR COMPATIBLE WITH EXISTING MIRTONE SERIES 7800 FIRE ALARM CONTROL PANEL.
5. DASHED DOT LINE INDICATES STAND ALONE OCCUPANCY SENSOR CONNECTION. SEE TYPICAL OCCUPANCY SENSOR CONNECTION DETAIL (STAND ALONE TYPE, NOT FOR RELAY PANEL CONNECTED) M1 / E3.1
6. TYPICAL LIGHTING CONTROL NETWORK DEVICE. SEE TYPICAL LIGHTING CONTROL COMMUNICATION CONNECTIVITY M9 / E3.1
7. REUSE EXISTING SMOKE DETECTOR FROM FIRST FLOOR MADE SPARE BY DEMOLITION.
8. UNDER ALTERNATE #1 FIXTURE SHALL BE TYPE 22E. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E3.2 FOR FIXTURE CATALOG INFORMATION.
9. COORDINATE EXIT SIGN LOCATION WITH WOOD CEILING FEATURE.
10. PROVIDE 3/4" CONDUIT TO PIV ON SITE. FIELD VERIFY AND COORDINATE PIV LOCATION WITH FIRE ALARM CONTRACTOR PRIOR TO INSTALLATION.
11. RELOCATED EXISTING DEVICE INDICATED WITH SUBSCRIPT "R". EXTEND CIRCUITS TO NEW DEVICE LOCATION.
12. DUCT MOUNT SMOKE DETECTOR SHALL SHUT DOWN ASSOCIATED HEAT PUMP AND PUT SYSTEM INTO ALARM UPON DETECTION OF SMOKE. PROVIDE DUCT DETECTOR COMPATIBLE WITH EXISTING FACP. CONNECT DUCT DETECTOR TO EXISTING FIRE ALARM ZONE SERVING THIS AREA. FIELD VERIFY FIRE ALARM ZONES PRIOR TO INSTALLATION.

# M1 BASEMENT FLOOR PLAN - LIGHTING

E1.0 SCALE: 1/8" = 1'-0"

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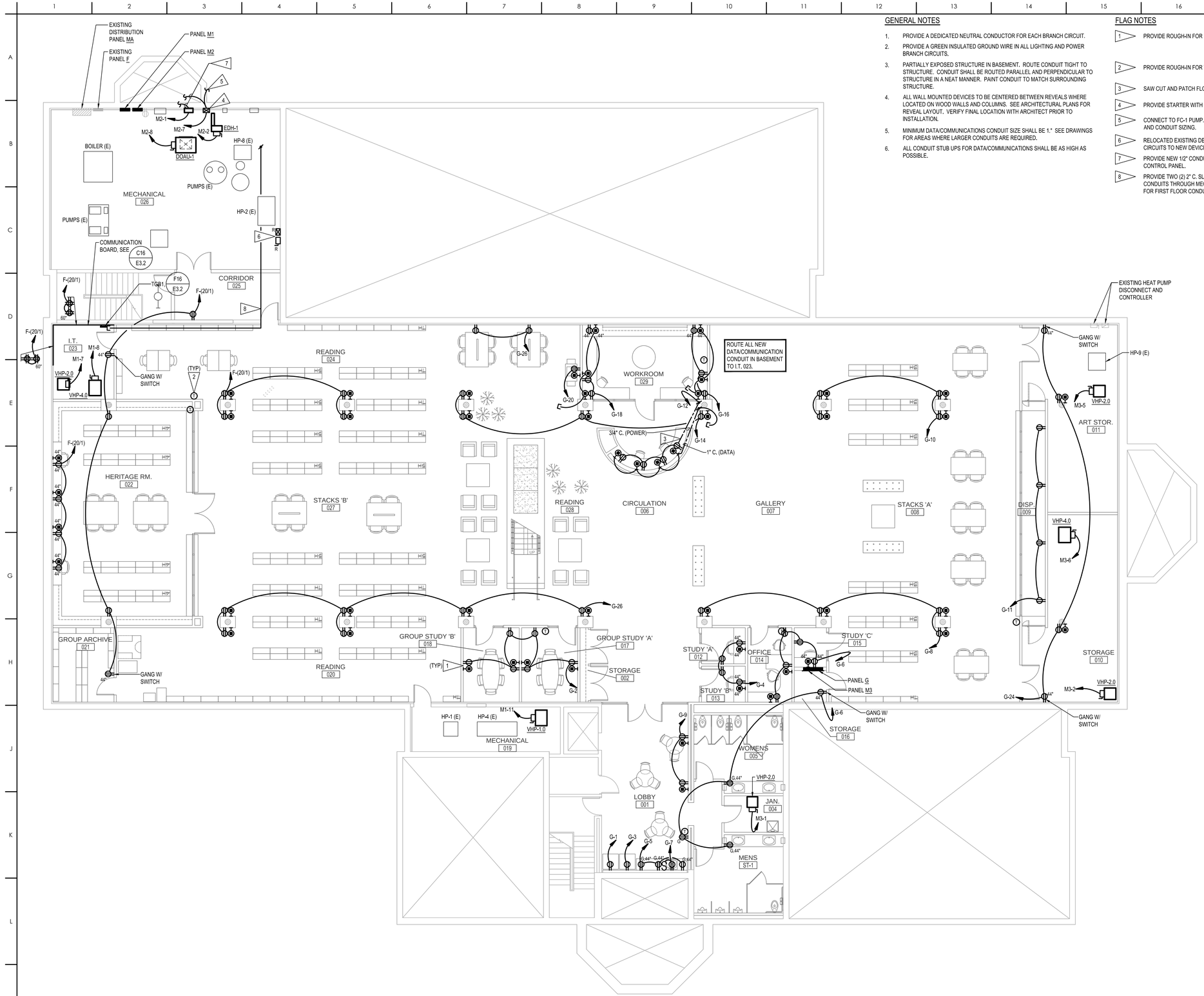
BASEMENT FLOOR PLAN
- LIGHTING ALTERNATE

E1.0




## GENERAL NOTES

1. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
2. PROVIDE A GREEN INSULATED GROUND WIRE IN ALL LIGHTING AND POWER BRANCH CIRCUITS.
3. PARTIALLY EXPOSED STRUCTURE IN BASEMENT. ROUTE CONDUIT TIGHT TO STRUCTURE. CONDUIT SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO STRUCTURE IN A NEAT MANNER. PAINT CONDUIT TO MATCH SURROUNDING STRUCTURE.
4. ALL WALL MOUNTED DEVICES TO BE CENTERED BETWEEN REVEALS WHERE LOCATED ON WOOD WALLS AND COLUMNS. SEE ARCHITECTURAL PLANS FOR REVEAL LAYOUT. VERIFY FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
5. MINIMUM DATA/COMMUNICATIONS CONDUIT SIZE SHALL BE 1." SEE DRAWINGS FOR AREAS WHERE LARGER CONDUITS ARE REQUIRED.
6. ALL CONDUIT STUB UPS FOR DATA/COMMUNICATIONS SHALL BE AS HIGH AS POSSIBLE.

## FLAG NOTES

1. PROVIDE ROUGH-IN FOR DATA/COMMUNICATIONS OUTLET, SEE M16 / E3.1
2. PROVIDE ROUGH-IN FOR THERMOSTAT DEVICES AT 48" A.F.F., SIMILAR TO M16 / E3.1
3. SAW CUT AND PATCH FLOOR FOR INSTALLATION OF UNDERGROUND CONDUITS.
4. PROVIDE STARTER WITH HOA THROUGH FRONT COVER.
5. CONNECT TO FC-1 PUMP. SEE MECHANICAL CONNECTION SCHEDULE FOR WIRE AND CONDUIT SIZING.
6. RELOCATED EXISTING DEVICE INDICATED WITH SUBSCRIPT "R". EXTEND CIRCUITS TO NEW DEVICE LOCATION.
7. PROVIDE NEW 1/2" CONDUIT FOR CONTROL WIRING TO TEMPERATURE CONTROL PANEL.
8. PROVIDE TWO (2) 2" C. SLEEVES FROM I.T. 023 TO SERVER 138. ROUTE CONDUITS THROUGH MECHANICAL CHASE TO FIRST FLOOR. SEE SHEET E2.1 FOR FIRST FLOOR CONDUIT PATH.

M1 BASEMENT FLOOR PLAN - POWER

E2.0 SCALE: 1/8" = 1'-0"

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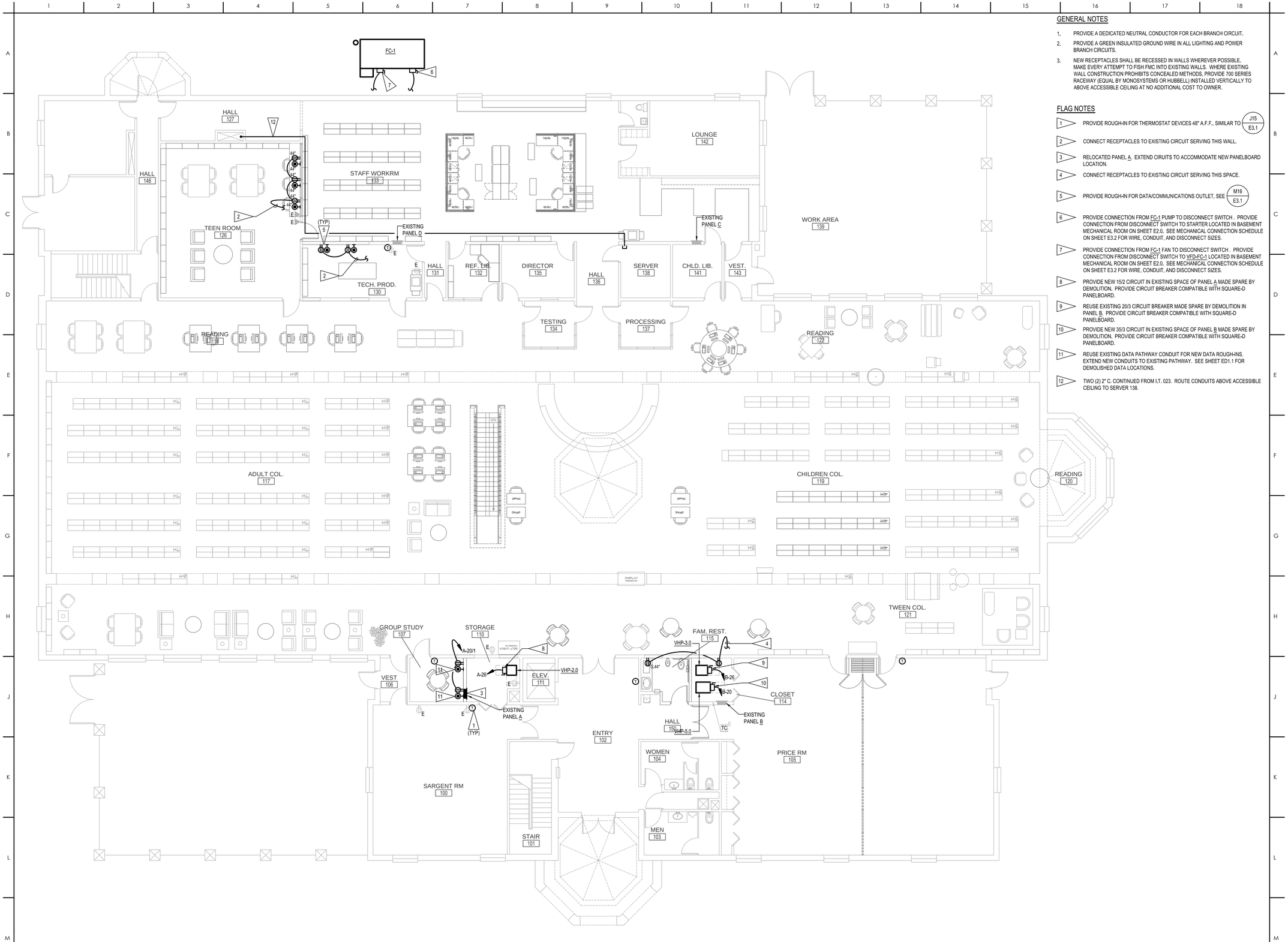
BASEMENT FLOOR PLAN - POWER

E2.0




## GENERAL NOTES

1. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
2. PROVIDE A GREEN INSULATED GROUND WIRE IN ALL LIGHTING AND POWER BRANCH CIRCUITS.
3. NEW RECEPTACLES SHALL BE RECESSED IN WALLS WHEREVER POSSIBLE. MAKE EVERY ATTEMPT TO FISH FMC INTO EXISTING WALLS. WHERE EXISTING WALL CONSTRUCTION PROHIBITS CONCEALED METHODS, PROVIDE 700 SERIES RACEWAY (EQUAL BY MONOSYSTEMS OR HUBBELL) INSTALLED VERTICALLY TO ABOVE ACCESSIBLE CEILING AT NO ADDITIONAL COST TO OWNER.

## FLAG NOTES

1. PROVIDE ROUGH-IN FOR THERMOSTAT DEVICES 48" A.F.F., SIMILAR TO J15/E3.1
2. CONNECT RECEPTACLES TO EXISTING CIRCUIT SERVING THIS WALL.
3. RELOCATED PANEL A. EXTEND CIRUITS TO ACCOMMODATE NEW PANELBOARD LOCATION.
4. CONNECT RECEPTACLES TO EXISTING CIRCUIT SERVING THIS SPACE.
5. PROVIDE ROUGH-IN FOR DATA/COMMUNICATIONS OUTLET, SEE M16/E3.1
6. PROVIDE CONNECTION FROM FC-1 PUMP TO DISCONNECT SWITCH . PROVIDE CONNECTION FROM DISCONNECT SWITCH TO STARTER LOCATED IN BASEMENT MECHANICAL ROOM ON SHEET E2.0. SEE MECHANICAL CONNECTION SCHEDULE ON SHEET E3.2 FOR WIRE, CONDUIT, AND DISCONNECT SIZES.
7. PROVIDE CONNECTION FROM FC-1 FAN TO DISCONNECT SWITCH . PROVIDE CONNECTION FROM DISCONNECT SWITCH TO VFD-FC-1 LOCATED IN BASEMENT MECHANICAL ROOM ON SHEET E2.0. SEE MECHANICAL CONNECTION SCHEDULE ON SHEET E3.2 FOR WIRE, CONDUIT, AND DISCONNECT SIZES.
8. PROVIDE NEW 15/2 CIRCUIT IN EXISTING SPACE OF PANEL A MADE SPARE BY DEMOLITION. PROVIDE CIRCUIT BREAKER COMPATIBLE WITH SQUARE-D PANELBOARD.
9. REUSE EXISTING 20/3 CIRCUIT BREAKER MADE SPARE BY DEMOLITION IN PANEL B. PROVIDE CIRCUIT BREAKER COMPATIBLE WITH SQUARE-D PANELBOARD.
10. PROVIDE NEW 35/3 CIRCUIT IN EXISTING SPACE OF PANEL B MADE SPARE BY DEMOLITION. PROVIDE CIRCUIT BREAKER COMPATIBLE WITH SQUARE-D PANELBOARD.
11. REUSE EXISTING DATA PATHWAY CONDUIT FOR NEW DATA ROUGH-INS. EXTEND NEW CONDUITS TO EXISTING PATHWAY. SEE SHEET ED1.1 FOR DEMOLISHED DATA LOCATIONS.
12. TWO (2) 2" C. CONTINUED FROM I.T. 023. ROUTE CONDUITS ABOVE ACCESSIBLE CEILING TO SERVER 138.

# M1 FIRST FLOOR PLAN - POWER

E2.1 SCALE: 1/8" = 1'-0"

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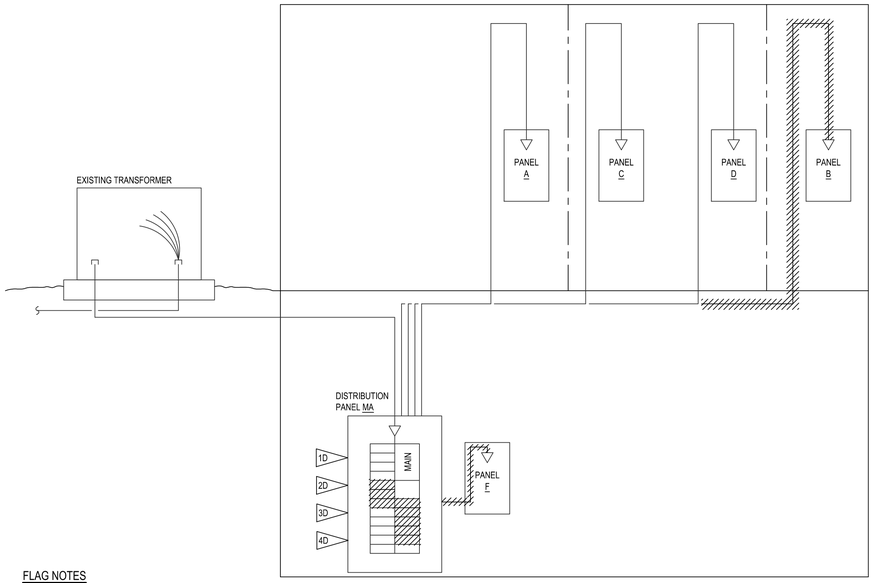
FIRST FLOOR PLAN - POWER

E2.1




FLAG NOTES

1D DELETE EXISTING 35A CIRCUIT BREAKER, CONDUIT AND FEEDERS FEEDING PANEL F. SEE G10/E3.1 EXISTING POWER RISER DIAGRAM (NEW WORK) FOR NEW CIRCUIT BREAKER SIZE AND FEEDER INFORMATION FOR PANEL F.

2D REMOVE AND RELOCATE CIRCUIT BREAKER FEEDING HP-1 AND CIRCUIT BREAKER HP-4 ON BUS. SEE G10/E3.1 EXISTING POWER RISER DIAGRAM (NEW WORK) FOR MORE INFORMATION.

3D DELETE EXISTING CIRCUIT BREAKERS FEEDING P-1, P-1, LC-1 (FAN), LC-1 (PUMP), HP-2, AND HP-3. EQUIPMENT TO BE RECONNECTED TO NEW PANELS. FEEDERS TO EXISTING MECHANICAL EQUIPMENT REMAIN. EXTEND/REWORK EXISTING FEEDERS IF NECESSARY. SEE NEW PANEL SCHEDULES ON SHEET E3.2 FOR MORE INFORMATION.

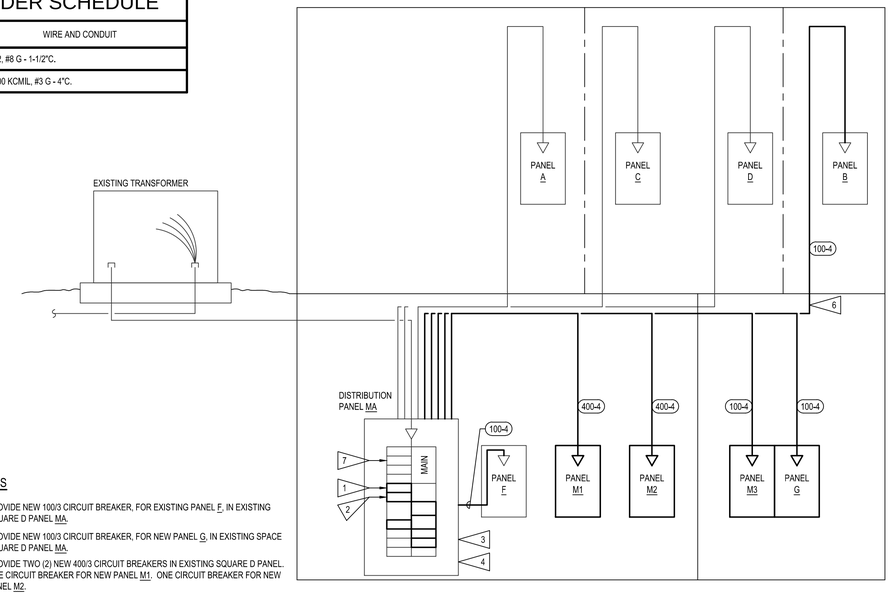
4D DELETE EXISTING 90A CIRCUIT BREAKER, CONDUIT AND FEEDERS FEEDING PANEL B. SEE G10/E3.1 EXISTING POWER RISER DIAGRAM (NEW WORK) FOR NEW CIRCUIT BREAKER SIZE AND FEEDER INFORMATION FOR PANEL B.

## G1 EXISTING POWER RISER DIAGRAM (DEMOLITION)

E3.1 SCALE: NO SCALE

FEEDER SCHEDULE

| MARK | WIRE AND CONDUIT |
|---|---|
| 100-4 | 4-#2, #8 G - 1-1/2"C. |
| 400-4 | 4-600 KCMIL, #3 G - 4"C. |




FLAG NOTES

1 PROVIDE NEW 100/3 CIRCUIT BREAKER, FOR EXISTING PANEL F, IN EXISTING SQUARE D PANEL MA.

2 PROVIDE NEW 100/3 CIRCUIT BREAKER, FOR NEW PANEL G, IN EXISTING SPACE SQUARE D PANEL MA.

3 PROVIDE TWO (2) NEW 400/3 CIRCUIT BREAKERS IN EXISTING SQUARE D PANEL. ONE CIRCUIT BREAKER FOR NEW PANEL M1. ONE CIRCUIT BREAKER FOR NEW PANEL M2.

4 RECONFIGURE BUS AND EXISTING CIRCUIT BREAKER LAYOUT TO ACCOMMODATE NEW 400/3 CIRCUIT BREAKERS. FIELD VERIFY EXACT REQUIREMENTS FOR INSTALLATION OF NEW BREAKERS INTO EXISTING BOARD PRIOR TO BIDDING.

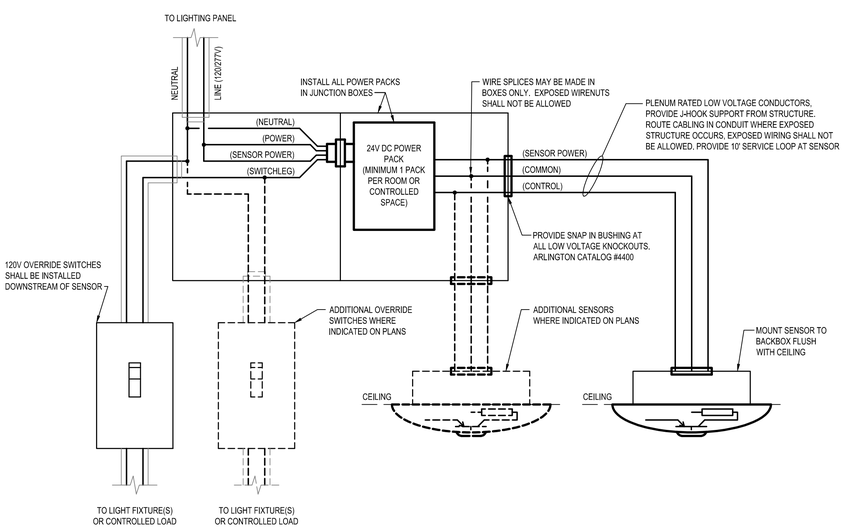
5 PROVIDE NEW 100/3 CIRCUIT BREAKER, FOR EXISTING PANEL B, IN EXISTING SQUARE D PANEL MA.

6 NEW CONDUIT AND WIRING PATH FOR PANEL B SHALL MATCH EXISTING PATH.

7 PROVIDE NEW 100/3 CIRCUIT BREAKER, FOR NEW PANEL M3, IN EXISTING SPACE OF SQUARE D PANEL MA.

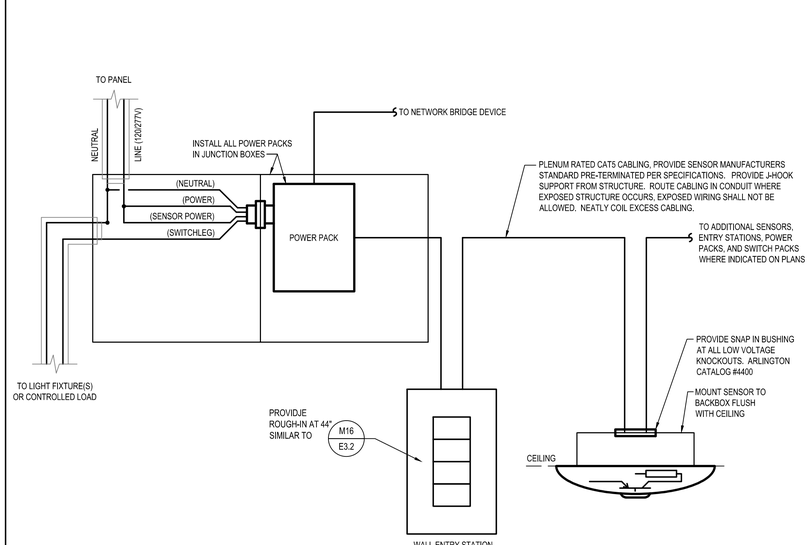
## G10 EXISTING POWER RISER DIAGRAM (NEW WORK)

E3.1 SCALE: NO SCALE



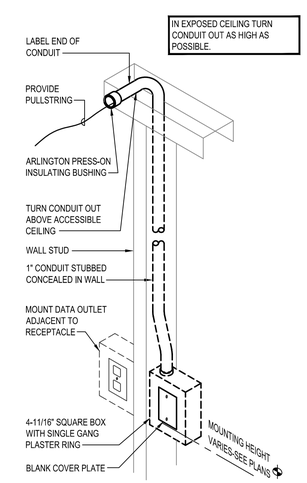

## M1 TYPICAL OCCUPANCY SENSOR CONNECTION DETAIL (STAND ALONE TYPE, NOT FOR RELAY PANEL CONNECTED)

E3.1 SCALE: NO SCALE




## M9 TYPICAL LIGHTING CONTROL COMMUNICATION CONNECTIVITY

E3.1 SCALE: NO SCALE




## M16 DATA/COMM ROUGH-IN DETAIL

E3.1 SCALE: NO SCALE

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ELECTRICAL DETAILS

E3.1

# LIGHTING FIXTURE SCHEDULE

| FIXT # | MANUFACTURER | CATALOG NO. (NOTE 2) | LAMP DATA QTY. | LAMP DATA SIZE | LAMP DATA TYPE (NOTE 3) | VOLTAGE | MOUNTING SURF. | MOUNTING FLUSH | MOUNTING CLG. | MOUNTING WALL | MOUNTING HEIGHT | DESCRIPTION | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LITHONIA, NOTE 1 | 2VT8 2 32 ADP MVOLT GEB10RS | 2 | F32/T8/3500K | F | 120/277 | | X | X | | – | 2x4 2L VOLUMETRIC | |
| 1B | LITHONIA, NOTE 1 | 2VT8 2 32 ADP MVOLT BSNP | 2 | F32/T8/3500K | F | 120/277 | | X | X | | – | 2x4 2L VOLUMETRIC | STEP LEVEL DIM |
| 2 | PEERLESS | 10CRM4 2 32 40/60 SBL 8FT R8 120 GEB10 SCT F3/— C110 | 2 | F32/T8/3500K | F | 120 | X | | X | | NOTE 8 | LINEAR PENDANT | |
| 2E | PEERLESS | 10CRM4 2 32 40/60 SBL 8FT R8 120 GEB10 SCT F3/— C110 | 2 | F32/T8/3500K | F | 120 | X | | X | | NOTE 8 | LINEAR PENDANT | NOTE 13 |
| 3 | LITHONIA, NOTE 1 | WT5 2 28T5 MVOLT GEB10PS | 1 | F28/T5/3500K | F | 120/277 | X | | X | | – | SURFACE MOUNT | |
| 3E | LITHONIA, NOTE 1 | WT5 2 28T5 MVOLT GEB10PS EL14 | 1 | F28/T5/3500K | F | 120/277 | X | | X | | – | SURFACE MOUNT | |
| 4 | GOTHAM, NOTE 5 | EVO 35/14 6AR LD MVOLT | 25W | 1400LM 3500K | LED | 120/277 | | X | X | | – | 6" LED DOWNLIGHT | |
| 5 | LITECONTROL | 2014T8 CWM-ELB10-PR-120 | 1 | F32/T8/3500K | F | 120 | | X | X | | – | 4' LINEAR PERIMETER | NOTE 6 |
| 6 | LITECONTROL | 2013T8 CWM-ELB10-PR-120 | 1 | F25/T8/3500K | F | 120 | | X | X | | – | 3' LINEAR PERIMETER | NOTE 6 |
| 7 | LITECONTROL | 2012T8 CWM-ELB10-PR-120 | 1 | F17/T8/3500K | F | 120 | | X | X | | – | 2' LINEAR PERIMETER | NOTE 6 |
| 8 | SELUX | M1R1S 1T5 SD SH 008 SV | 3 | F28/T5/3500K | F | 120 | | X | X | | – | 8' LINEAR | |
| 8E | SELUX | M1R1S 1T5 SD SH 008 SV EM | 3 | F28/T5/3500K | F | 120 | | X | X | | – | 8' LINEAR | W/ EMERG. BATTERY |
| 8B | SELUX | M1R1S 1T5 SD SH 008 SV DM | 3 | F28/T5/3500K | F | 120 | | X | X | | – | 8' LINEAR | NOTE 14 |
| 9 | LITHONIA, NOTE 1 | C 2 32 MVOLT GEB10RS | 2 | F32/T8/3500K | F | 120/277 | | X | X | | – | STRIPLIGHT | NOTE 4 |
| 10 | GOTHAM LIGHTING | EVO LW 35/10 4AR LD 120 | 25W | 1000LM 3500K | LED | 120 | | X | X | | – | 4" WALLWASH | |
| 11 | NESSEN | NH793-F OP | 3 | 26W TRT/3500K | CF | 120 | | | X | | – | DECORATIVE PENDANT | |
| 12 | LITON | LTD70 9 B | 9W | 420LM 3000K | LED | 120 | | | X | | NOTE 9 | LED TRACK HEAD | NOTE 7 |
| 13 | SELUX | M10 1T8 MA W 004 WH SV 120 | 2 | NOTE 10 | F | 120 | | X | X | | – | 4' PARABOLIC | |
| 14 | LITHONIA, NOTE 1 | TRT5N 2 28T5 MVOLT GEB10PS DGA64 | 4 | F28/T5/3500K | F | 120/277 | | X | X | | – | 8' VOLUMETRIC | |
| 14E | LITHONIA, NOTE 1 | TRT5N 2 28T5 MVOLT GEB10PS DGA64 EL14 | 4 | F28/T5/3500K | F | 120/277 | | X | X | | – | 8' VOLUMETRIC | W/ EMERG. BATTERY |
| 15 | LITHONIA, NOTE 1 | TRT5N 1 28T5 MVOLT GEB10PS | 2 | F28/T5/3500K | F | 120/277 | | X | X | | – | 8' VOLUMETRIC | |
| 15E | LITHONIA, NOTE 1 | TRT5N 1 28T5 MVOLT GEB10PS EL14 | 2 | F28/T5/3500K | F | 120/277 | | X | X | | – | 8' VOLUMETRIC | W/ EMERG. BATTERY |
| 16 | LITHONIA, NOTE 1 | TRT5N 1 28T5 MVOLT GEB10PS DGA64 | 2 | F28/T5/3500K | F | 120/277 | | X | X | | – | 8' VOLUMETRIC | |
| 17 | LITHONIA, NOTE 1 | LQC 1 R EL N | 1 | FURN, W/ FIXTURE | LED | 120/277 | | | | | – | SINGLE FACE EXIT | |
| 18 | LITHONIA, NOTE 1 | LQC 2 R EL N | 1 | FURN, W/ FIXTURE | LED | 120/277 | | | | | – | DOUBLE FACE EXIT | |
| 19 | GOTHAM | EVO CYL 35/22 6AR LD MVOLT ACC DNA | 32W | 2200LM 3500K | LED | 120/277 | X | | X | | NOTE 8 | 8" LED CYLINDER | |
| 20 | DALUME | DLN31L-15 3K | 15W | 1050LM 3000K | LED | 120 | X | | X | | – | 4' LED STRIP | NOTE 11 |
| 21 | DALUME | DLN31L-8 3K | 15W | 450LM 3000K | LED | 120 | X | | X | | – | 2' LED STRIP | NOTE 11 |
| 22 | SELUX | M10S 1T5 SD C 008 SV | 3 | F28/T5/3500K | F | 120 | | | X | | NOTE 12 | 8' SUSPENDED LINEAR | |
| 22E | SELUX | M10S 1T5 SD C 008 SV | 3 | F28/T5/3500K | F | 120 | | | X | | NOTE 12 | 8' SUSPENDED LINEAR | |

NOTES:

1. FIXTURE SHALL BE CONSIDERED EQUAL AS MANUFACTURED BY COLUMBIA, DAY-BRITE, COOPER, AND H.E. WILLIAMS.
2. CONTRACTOR SHALL VERIFY LIGHT FIXTURE CATALOG NUMBER & INSTALLATION REQUIREMENTS PRIOR TO ORDERING.
3. LAMP TYPE DESCRIPTION: F=FLUORESCENT, LED=LIGHT EMITTING DIODE
4. PROVIDE WITH WIREGUARD.
5. FIXTURE SHALL BE CONSIDERED EQUAL AS MANUFACTURED BY OMEGA REVELATION OR LIGHTOLIER.
6. PROVIDE STRAIGHT EXTENSION ON EACH END OF RUN TO FILL OUT ENTIRE WALL LENGTH. LIGHT SOURCE SHALL BE CENTERED ON WALL.
7. PROVIDE SUSPENDED 8' TRACK LENGTH FOR LED TRACK HEADS. SEE SHEET E1.0 LIGHTING FLOOR PLAN FOR TRACK LENGTHS AND LOCATIONS.
8. MOUNT FIXTURE SO THAT BOTTOM OF FIXTURE IS SUSPEND TO MATCH BOTTOM OF HARD CEILING. COORDINATE EXACT HEIGHT WITH ARCHITECT'S CEILING PLAN.
9. MOUNT TRACK SECTIONS SO THAT BOTTOM OF TRACK IS SUSPEND TO MATCH BOTTOM OF HARD CEILING. COORDINATE EXACT HEIGHT WITH ARCHITECT'S CEILING PLAN.
10. PROVIDE UV LAMP LIGHT. PROVIDE SHOP DRAWINGS OF UV LAMP LIGHT TO ENGINEERING PRIOR TO ORDERING.
11. PROVIDE CONNECTORS FOR LENGTHS NECESSARY TO FORM CONTINUOUS ILLUMINATION OF COVE. VERIFY MAXIMUM NUMBER OF FIXTURE LINKS PER FEED WITH WITH MANUFACTURER PRIOR TO ORDERING.
12. MOUNT FIXTURE SO THAT BOTTOM OF FIXTURE IS SUSPEND TO MATCH BOTTOM OF ARCHITECTURAL WOOD CEILING. COORDINATE EXACT HEIGHT WITH ARCHITECT'S CEILING PLAN.
13. PROVIDE EMERGENCY BATTERY COMPATIBLE WITH FIXTURE.
14. PROVIDE LOW PROFILE STEP DIMMING BALLAST PER MANUFACTURER'S RECOMMENDATIONS. VERIFY BALLAST REQUIREMENTS WITH MANUFACTURER PRIOR TO ORDERING.

# LIGHTING CONTROL DEVICE SCHEDULE

| SYMBOL | MANUFACTURER | CATALOG NUMBER | DESCRIPTION |
|---|---|---|---|
| S | SENSORSWITCH | CM PDT 10 | LOW VOLTAGE CEILING SENSOR, STAND ALONE TYPE. |
| S$_{nL}$ | SENSORSWITCH | nCM PDT 10 | EXTENDED RANGE LOW VOLTAGE CEILING SENSOR, CONNECTED TO LIGHTING CONTROL NETWORK |
| S$_{nL,W}$ | SENSORSWITCH | nWV PDT 16 | WIDE VIEW LOW VOLTAGE CORNER/WALL SENSOR, CONNECTED TO LIGHTING CONTROL NETWORK |
| S | SENSORSWITCH | WSD PDT | LINE VOLTAGE SINGLE POLE WALL BOX OCCUPANCY SENSOR |
| S$_2$ | SENSORSWITCH | WSD PDT 2P | LINE VOLTAGE DOUBLE POLE WALL BOX OCCUPANCY SENSOR |
| GW | SENSORSWITCH | nGWY2 L400 KIT | LIGHTING CONTROL NETWORK GATEWAY 120/277V W/ INTERFACE CONTROLLER, 400 DEVICES MAX (# INDICATES GATEWAY NUMBER) |
| BR | SENSORSWITCH | nBRG 8 | LIGHTING CONTROL NETWORK BRIDGE 120/277V (# INDICATES BRIDGE NUMBER) |
| PP$_n$ | SENSORSWITCH | nPP 16 | LIGHTING CONTROL NETWORK POWER PACK |
| SP$_n$ | SENSORSWITCH | nSP 16 | LIGHTING CONTROL NETWORK SWITCH PACK |
| ES4S | SENSORSWITCH | nPODM 4S GY | LIGHTING CONTROL NETWORK ENTRY STATION W/ SCENE CONTROL |

NOTES:

1. PRODUCTS LISTED INDICATE BASIS OF DESIGN PRODUCTS. REFER TO SPECIFICATIONS FOR ACCEPTABLE EQUIVALENT MANUFCATURERS.

# NEW PANEL SCHEDULE

LIGHTING PANEL: **M1** — VOLTAGE: **208/120V**
RATING: **400A** — PHASE: **3**
MOUNTING: **FLUSH** — WIRE: **4**
TYPE: **MLO W/ GND. BAR** — A.I.C. RATING: **SERIES**

| DESCRIPTION | O/C | CKT. | | O/C | DESCRIPTION |
|---|---|---|---|---|---|
| P-1 | 35/3 | 1 | 2 | 35/3 | P-1 |
| --- | --- | 3 | 4 | --- | --- |
| --- | --- | 5 | 6 | --- | --- |
| VHP-2.0 | 15/2 | 7 | 8 | 25/3 | VHP-4.0 |
| --- | --- | 9 | 10 | --- | --- |
| VHP-1.0 | 15/2 | 11 | 12 | --- | --- |
| --- | --- | 13 | 14 | 20/1 | SPARE |
| SPARE | 20/1 | 15 | 16 | 20/1 | SPARE |
| SPACE | | 17 | 18 | | SPACE |
| SPACE | | 19 | 20 | | SPACE |
| SPACE | | 21 | 22 | | SPACE |
| SPACE | | 23 | 24 | | SPACE |
| SPACE | | 25 | 26 | | SPACE |
| SPACE | | 27 | 28 | | SPACE |
| SPACE | | 29 | 30 | | SPACE |
| HP-2 (SUBFEED BREAKER) | 150/3 | 31 | 32 | --- | --- |
| --- | --- | 33 | 34 | --- | --- |
| --- | --- | 35 | 36 | --- | --- |
| HP-3 (SUBFEED BREAKER) | 150/3 | 37 | 38 | --- | --- |
| --- | --- | 39 | 40 | --- | --- |
| --- | --- | 41 | 42 | --- | --- |

# NEW PANEL SCHEDULE

LIGHTING PANEL: **M2** — VOLTAGE: **208/120V**
RATING: **400A** — PHASE: **3**
MOUNTING: **FLUSH** — WIRE: **4**
TYPE: **MLO W/ GND. BAR** — A.I.C. RATING: **SERIES**

| DESCRIPTION | O/C | CKT. | | O/C | DESCRIPTION |
|---|---|---|---|---|---|
| FC (FAN) | 80/3 | 1 | 2 | 70/3 | EDH-1 |
| --- | --- | 3 | 4 | --- | --- |
| --- | --- | 5 | 6 | --- | --- |
| FC (PUMP) | 20/3 | 7 | 8 | 40/3 | DOAU-1 |
| --- | --- | 9 | 10 | --- | --- |
| --- | --- | 11 | 12 | --- | --- |
| SPARE | 20/1 | 13 | 14 | 20/1 | SPARE |
| SPARE | 20/1 | 15 | 16 | 20/1 | SPARE |
| SPACE | | 17 | 18 | | SPACE |
| SPACE | | 19 | 20 | | SPACE |
| SPACE | | 21 | 22 | | SPACE |
| SPACE | | 23 | 24 | | SPACE |
| SPACE | | 25 | 26 | | SPACE |
| SPACE | | 27 | 28 | | SPACE |
| SPACE | | 29 | 30 | | SPACE |
| SPACE | | 31 | 32 | | SPACE |
| SPACE | | 33 | 34 | | SPACE |
| SPACE | | 35 | 36 | | SPACE |
| SPACE | | 37 | 38 | | SPACE |
| SPACE | | 39 | 40 | | SPACE |
| SPACE | | 41 | 42 | | SPACE |

# NEW PANEL SCHEDULE

LIGHTING PANEL: **M3** — VOLTAGE: **208/120V**
RATING: **100A** — PHASE: **3**
MOUNTING: **FLUSH** — WIRE: **4**
TYPE: **MLO W/ GND. BAR** — A.I.C. RATING: **SERIES**

| DESCRIPTION | O/C | CKT. | | O/C | DESCRIPTION |
|---|---|---|---|---|---|
| VHP-2.0 | 15/2 | 1 | 2 | 15/2 | VHP-2.0 |
| --- | --- | 3 | 4 | --- | --- |
| VHP-2.0 | 15/2 | 5 | 6 | 20/3 | VHP-4.0 |
| --- | --- | 7 | 8 | --- | --- |
| SPARE | 20/1 | 9 | 10 | --- | --- |
| SPARE | 20/1 | 11 | 12 | 20/1 | SPARE |
| SPACE | | 13 | 14 | 20/1 | SPARE |
| SPACE | | 15 | 16 | | SPACE |
| SPACE | | 17 | 18 | | SPACE |
| SPACE | | 19 | 20 | | SPACE |
| SPACE | | 21 | 22 | | SPACE |
| SPACE | | 23 | 24 | | SPACE |
| SPACE | | 25 | 26 | | SPACE |
| SPACE | | 27 | 28 | | SPACE |
| SPACE | | 29 | 30 | | SPACE |
| SPACE | | 31 | 32 | | SPACE |
| SPACE | | 33 | 34 | | SPACE |
| SPACE | | 35 | 36 | | SPACE |
| SPACE | | 37 | 38 | | SPACE |
| SPACE | | 39 | 40 | | SPACE |
| SPACE | | 41 | 42 | | SPACE |

# NEW PANEL SCHEDULE

LIGHTING PANEL: **G** — VOLTAGE: **208/120V**
RATING: **100A** — PHASE: **3**
MOUNTING: **FLUSH** — WIRE: **4**
TYPE: **MLO W/ GND. BAR** — A.I.C. RATING: **SERIES**

| DESCRIPTION | O/C | CKT. | | O/C | DESCRIPTION |
|---|---|---|---|---|---|
| REC - REFRIGERATOR | 20/1 | 1 | 2 | 20/1 | REC - GRP STUDY A, GRP STUDY B |
| REC - REFRIGERATOR | 20/1 | 3 | 4 | 20/1 | REC - STUDY A, STUDY B |
| REC - LOBBY | 20/1 | 5 | 6 | 20/1 | REC - OFFICE, STUDY C |
| DISPOSAL | 20/1 | 7 | 8 | 20/1 | REC - STACKS A |
| REC - LOBBY | 20/1 | 9 | 10 | 20/1 | REC - STACKS A, GALLERY |
| REC - DISPLAY | 20/1 | 11 | 12 | 20/1 | REC - CIRCULATION |
| LTG - STRGE, OFF., STDY, RR,LBBY | 20/1 | 13 | 14 | 20/1 | REC - CIRCULATION, READING |
| LTG - STRG, OFF., STDY, RR,LBBY | 20/1 | 15 | 16 | 20/1 | REC - WORKROOM |
| LTG - GALLERY, ART STRG, STRG | 20/1 | 17 | 18 | 20/1 | REC - WORKROOM |
| LTG - STACKS 'A' | 20/1 | 19 | 20 | 20/1 | REC- COPIER (READING) |
| LTG - STACKS'A', DISPLAY | 20/1 | 21 | 22 | 20/1 | REC - RESTROOMS, STRGE |
| SPARE | 20/1 | 23 | 24 | 20/1 | REC - STORAGE, ART STORAGE |
| SPARE | 20/1 | 25 | 26 | 20/1 | REC - READING |
| SPARE | 20/1 | 27 | 28 | 20/1 | REC - READING |
| SPARE | 20/1 | 29 | 30 | 20/1 | SPARE |
| SPACE | | 31 | 32 | | SPACE |
| SPACE | | 33 | 34 | | SPACE |
| SPACE | | 35 | 36 | | SPACE |
| SPACE | | 37 | 38 | | SPACE |
| SPACE | | 39 | 40 | | SPACE |
| SPACE | | 41 | 42 | 20/1 | EXIT SIGNS (W/ BREAKER LOCK) |

# EXISTING PANEL SCHEDULE

LIGHTING PANEL: **F** — VOLTAGE: **208/120V**
RATING: **100A** — PHASE: **3**
MOUNTING: **SURFACE** — WIRE: **4**
TYPE: **MLO W/ GND. BAR** — A.I.C. RATING: **SERIES**

| DESCRIPTION | O/C | CKT. | | O/C | DESCRIPTION |
|---|---|---|---|---|---|
| (E) SEWAGE EJECTOR | | 1 | 2 | | (E) SUMP PUMP-1 |
| (E) SEWAGE EJECTOR | | 3 | 4 | | (E) SUMP PUMP-1 |
| (E) SEWAGE EJECTOR | | 5 | 6 | | (E) BOILER CONTROLS |
| (E) MECH RM LTG | | 7 | 8 | | (E) MECH RM RECEPT |
| (E) EXT LTG | | 9 | 10 | | (E) H-1 |
| (E) BASEMENT LTG | | 11 | 12 | | (E) |
| (E) FT-3 | | 13 | 14 | | (E) |
| (E) | | 15 | 16 | | (E) |
| (E) | | 17 | 18 | | SPACE |
| (E) | | 19 | 20 | | (E) |
| SPACE | | 21 | 22 | | (E) |
| SPACE | | 23 | 24 | | (E) |
| (E) | | 25 | 26 | | (E) COMP REC HERITAGE RM |
| (E) | | 27 | 28 | | (E) COMP REC HERITAGE RM |
| (E) | | 29 | 30 | | (E) HP-8 |
| SPACE | | 31 | 32 | | (E) HP-8 |
| SPACE | | 33 | 34 | | SPACE |
| SPACE | | 35 | 36 | | SPACE |
| SPACE | | 37 | 38 | | SPACE |
| SPACE | | 39 | 40 | | SPACE |
| SPACE | | 41 | 42 | | SPACE |

NOTE: PROVIDE SEVEN (10) 20/1 CIRCUIT BREAKERS IN EXISTING SQUARE-D PANELBOARD.

PROVIDE UPDATED TYPED PANEL DIRECTORIES FOR ALL PANELS AFFECTED BY REMODEL.

# MECHANICAL UNIT CONNECTION SCHEDULE

| MARK | VOLTAGE, PHASE | NEMA 3 DISCONNECT | BREAKER (NOTE 1) | WIRE AND CONDUIT |
|---|---|---|---|---|
| DOAU-1 | 200V, 3Ø | 60/3 | 40/3 | 3#8, #10G., 1" C. |
| EDH-1 | 208V, 3Ø | 60/3 | 70/3 | 3#4, #8G., 1-1/4" C. |
| FC-1 (FAN) | 200V, 3Ø | NOTE 3 | 80/3 | 3#8, #8G., 1" C. |
| FC-1 (PUMP) | 200V, 3Ø | NOTE 2 | 20/3 | 3#12, #12G., 1/2" C. |
| VHP-1,0 | 208V, 1Ø | 30/2 | 15/2 | 2#12, #12G., 1/2" C. |
| VHP-2,0 | 208V, 1Ø | 30/2 | 15/2 | 2#12, #12G., 1/2" C. |
| VHP-3,0 | 208V, 3Ø | 30/3 | 20/3 | 3#12, #12G., 1/2" C. |
| VHP-4,0 | 208V, 3Ø | 30/3 | 25/3 | 3#10, #10G., 3/4" C. |
| VHP-4,0 | 208V, 3Ø | 60/3 | 35/3 | 3#8, #10G., 1" C. |

NOTES:

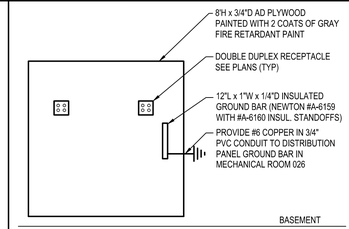
1. PROVIDE HACR RATED BREAKER.
2. PROVIDE 30/3 DISCONNECT SWITCH AT EQUIPMENT. CONNECT OUTSIDE EQUIPMENT TO STARTEROCATED IN BASEMENT MECHANICAL ROOM. SEE E2.0 FOR STARTER LOCATION.
3. PROVIDE 100/3 DISCONNECT SWITCH AT EQUIPMENT. CONNECT OUTSIDE EQUIPMENT VFD LOCATED IN BASEMENT MECHANICAL ROOM. SEE E2.0 FOR VFD LOCATION.

# ELECTRICAL SYMBOLS

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|---|---|---|---|
| **LIGHTING** | | | |
| | FLUORESCENT FIXTURE | | CEILING FIXTURE |
| | NUMBER DENOTES FIXTURE TYPE. SEE CORRESPONDING NUMBER IN FIXTURE SCHEDULE | | WALL FIXTURE |
| | SHADING DENOTES FIXTURE CONNECTED TO EMERGENCY CIRCUIT OR WITH BATTERY | S | SINGLE POLE SWITCH |
| | FLUORESCENT STRIP FIXTURE | $S_2$ | DOUBLE POLE SWITCH |
| | WALL BRACKET FIXTURE | $S_3$ | 3 - WAY SWITCH |
| | TRACK FIXTURE | $S_4$ | 4 - WAY SWITCH |
| | EMERGENCY BATTERY PACK | | WALL BOX DIMMER SWITCH (NUMBER INDICATES WATTAGE: "6"=600W, "10"=1000W, "15"=1500W, "20"=2000W) |
| | CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW - NUMBER INDICATES FIXTURE NUMBER IN SCHEDULE | | OCCUPANCY SENSOR POWER PACK |
| | WALL OR END MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW - NUMBER INDICATES FIXTURE NUMBER IN SCHEDULE | | WALL MOUNTED MOTION SENSOR/SWITCH |
| | | | ENTRY STATION, WALL SWITCH(S) |
| **FIRE ALARM** | | | |
| | FIRE ALARM SMOKE DETECTOR | | FIRE ALARM HORN & STROBE COMBINATION |
| | FIRE ALARM HEAT DETECTOR | | FIRE ALARM MINIHORN & STROBE COMBINATION |
| | DUCT MOUNTED SMOKE DETECTOR | | CEILING FIRE ALARM STROBE |
| | FIRE SPRINKLER VALVE TAMPER SWITCH | | WALL FIRE ALARM STROBE |
| | FIRE SPRINKLER FLOW SWITCH | | CEILING FIRE ALARM HORN & STROBE COMBINATION |
| | FIRE ALARM CONTROL PANEL | | FIRE FIGHTER'S TELEPHONE JACK |
| | FIRE ALARM ANNUNCIATOR PANEL | | FIRE ALARM MANUAL PULL STATION |
| **COMMUNICATION** | | | |
| | DATA OUTLET | HD | TELEVISION/VIDEO OUTLET |
| | COMBINATION TELEPHONE/DATA OUTLET | | TELEPHONE OUTLET |

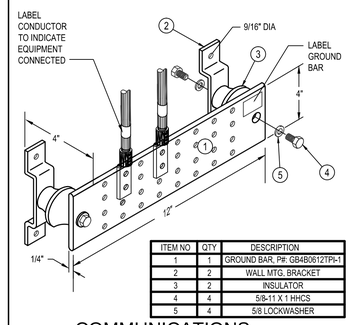
# ELECTRICAL SYMBOLS CONTINUED

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|---|---|---|---|
| **POWER** | | | |
| | DUPLEX RECEPTACLE | | FLOOR BOX - COMBINATION POWER & DATA |
| | "G" DENOTES GFCI TYPE | | FLOOR BOX - COMBINATION POWER, TELEPHONE & DATA |
| | HORIZONTAL MOUNTED DUPLEX RECEPTACLE | | MULTIOUTLET ASSEMBLY - LENGTH AS INDICATED |
| | CEILING MOUNTED DUPLEX RECEPTACLE | | MOTOR - NUMBER DENOTES HORSEPOWER |
| | DOUBLE DUPLEX RECEPTACLE | | DISCONNECT SWITCH |
| | SINGLE RECEPTACLE | | SINGLE PHASE MAGNETIC MOTOR STARTER |
| | SPECIAL PURPOSE RECEPTACLE (NEMA CONFIG. AS NOTED) | | THREE PHASE MAGNETIC MOTOR STARTER |
| | RELAY | | COMBINATION MAGNETIC STARTER/DISCONNECT |
| **GENERAL** | | | |
| | LIGHTING PANEL | | WALL MOUNTED JUNCTION BOX |
| | DISTRIBUTION PANEL, SWITCHBOARD OR MOTOR CONTROL CENTER | # | JUNCTION BOX ("7" INDICATES FLOOR, "C" INDICATES CEILING) |
| | TELEPHONE TERMINAL CABINET | | PHOTOCELL |
| | BRANCH CIRCUIT - EXPOSED | | CONDUIT SEAL |
| | BRANCH CIRCUIT CONCEALED IN CEILING OR WALL | | CIRCUIT DOWN |
| | BRANCH CIRCUIT CONCEALED IN FLOOR | | CIRCUIT UP |
| | HOMERUN TO PANEL (QUANTITY OF ARROWS INDICATES QUANTITY OF CIRCUITS) | | CONDUIT STUB-OUT |
| | SPECIAL PURPOSE HOMERUN AS INDICATED | | CIRCUIT BREAK |
| | THERMOSTAT | | TIME CLOCK |
| | | | PUSH BUTTON |
| WP | SUBSCRIPT "WP" APPLIED TO ANY SYMBOL INDICATES WEATHERPROOF NEMA TYPE 4 OR EQUIVALENT | RT | SUBSCRIPT "RT" APPLIED TO ANY SYMBOL INDICATES RAINTIGHT NEMA 3R OR EQUIVALENT |
| E | SUBSCRIPT "E" ADDED TO ANY SYMBOL INDICATES EXISTING | | |
| K | SUBSCRIPT "K" ADDED TO ANY SYMBOL INDICATES KEY OPERATED | DL | SUBSCRIPT "DL" ADDED TO ANY SYMBOL INDICATES DAMP LOCATION |




## C16 COMMUNICATION BOARD DETAIL

E3.1 SCALE: NO SCALE




| ITEM NO | QTY | DESCRIPTION |
|---|---|---|
| 1 | 1 | GROUND BAR, P#: GB4B0612TPI-1 |
| 2 | 2 | WALL MTG. BRACKET |
| 3 | 2 | INSULATOR |
| 4 | 4 | 5/8-11 X 1 HHCS |
| 5 | 4 | 5/8 LOCKWASHER |

## F16 COMMUNICATIONS TGB DETAIL

E3.1 SCALE: NO SCALE

# Beatrice Public Library Renovation

100 N. 16th Street
Beatrice, NE 68310

MEI PROJECT NO.: 12248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11/15/2013
STATE OF NEBRASKA

REVISION DATE

PROJECT NUMBER: 12027

DATE: 11/15/2013


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ELECTRICAL SCHEDULES

E3.2