

**SECTION 00 9111**  
**ADDENDUM NUMBER 2**

**PARTICULARS**

- 1.01 DATE: AUGUST 7, 2010**
- 1.02 PROJECT: UNIVERSITY OF SOUTH CAROLINA - SOM ANIMAL CARE RENOVATIONS**
- 1.03 PROJECT NUMBER: STATE PROJECT #H27-Z152, A/E #14015.01**
- 1.04 OWNER: UNIVERSITY OF SOUTH CAROLINA**
- 1.05 ARCHITECT: GMK ASSOCIATES, INC.**
- TO: PROSPECTIVE BIDDERS**
- 2.01 THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND MODIFIES THE BIDDING DOCUMENTS DATED JUNE 30, 2014, AND ADDENDUM NUMBER 1 ISSUED AUGUST 4, 2014, WITH AMENDMENTS AND ADDITIONS NOTED BELOW.**
- 2.02 ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED IN THE BID FORM. FAILURE TO DO SO MAY DISQUALIFY THE BIDDER.**
- 2.03 THIS ADDENDUM CONSISTS OF 2 PAGES AND THE FOLLOWING ATTACHMENTS:**
  - A. Specification Section 02 2223 - MINOR DEMOLITION FOR REMODELING
  - B. HAZMAT Survey
  - C. Drawing E1.0A
  - D. Drawing E3.0A
  - E. Drawing E4.0A

**CHANGES TO THE PROJECT MANUAL**

- 3.01 SECTION 02 2223 - MINOR DEMOLITION FOR REMODELING**
  - A. Add section in its entirety.
- 3.02 SECTION 23 0900 - VARIABLE-FREQUENCY MOTOR CONTROLLERS**
  - A. Delete Paragraph 2.04.J
  - B. Delete Paragraph 2.05.D
  - C. Delete Paragraph 2.05.E
  - D. Delete Paragraph 2.05.F
  - E. Revise Paragraph 2.08.A to read:
    - 1. The Variable Frequency Controller shall include a backlit Liquid Crystal Display (LCD). This human interface provides Hand, Off, Auto and Speed Increase and Decrease keys for "Hand" operation. Drive Faults, Warnings, Alarms and Operating Data are provided in "Plain English" format (No Codes) This interface also provides a Real time Clock with Day Date, 10 year battery backup operation, Elapsed Time Meter, Fault Logger, and a "?" Help Key for use in troubleshooting the drive. This human interface is removable from the drive and is connected via a standard Cat-5 cable."

**CHANGES TO THE DRAWINGS**

- 4.01 DRAWING A-3.0**
  - A. Revise General Note 5 to read:
    - 1. "5. IN AREA OF CONSTRUCTION, PATCH AND PAINT ALL CORRIDOR WALLS. IN INDIVIDUAL ANIMAL HOLDING AND PROCEDURE/RESEARCH ROOMS, PATCH AND PAINT WALLS TO MATCH EXISTING WHERE DAMAGED OR MARRED DURING

DEMOLITION AND CONSTRUCTION. PAINT SHALL BE ROSETALBERT 400  
PREMIUM ACRYLIC SEMI-GLOSS ENAMEL, COLOR: ARIZONA WHITE 5830W."

**4.02 DRAWING E1.0A**

- A. Replace sheet E1.0A in its entirety.

**4.03 DRAWING E3.0A**

- A. Replace sheet E3.0A in its entirety.

**4.04 DRAWING E4.0A**

- A. Add sheet E4.0A in its entirety.

**END OF SECTION**

**SECTION 02 2223**  
**MINOR DEMOLITION FOR REMODELING**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Removal of designated building equipment and fixtures.
- B. Removal of designated construction.
- C. Disposal of materials.
- D. Identification of utilities.

**1.02 RELATED SECTIONS**

- A. Section 01100 - Summary: Work sequence and continued occupancy of the building.
- B. Section 01 7800 - Closeout Submittals: Project record documents.

**1.03 SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Project Record Documents: Accurately record actual locations of capped utilities.
  - 1. Indicate unanticipated structural, electrical, or mechanical conditions.

**1.04 REGULATORY REQUIREMENTS**

- A. Conform to applicable code for demolition work, dust control, products requiring electrical disconnection and re-connection .
- B. Obtain required permits from authorities.
- C. Do not close or obstruct egress from any building exit or site exit.
- D. Do not disable or disrupt building fire or life safety systems without 5 days prior written notice to Owner.
- E. Conform to applicable regulatory procedures when hazardous or contaminated materials are discovered.

**1.05 SEQUENCING**

- A. Sequence work under the provisions of Section 01 1000.

**1.06 SCHEDULING**

- A. Schedule work under the provisions of Section 01 3216.
- B. Arrange schedule so as not to interfere with the Owner's operations.
- C. Schedule work to coincide with new construction.
- D. Describe demolition removal procedures and schedule.

**1.07 PROJECT CONDITIONS**

- A. Conduct demolition to minimize interference with adjacent and occupied building areas.
- B. Cease operations immediately if structure appears to be in danger and notify Architect. Do not resume operations until directed.
- C. Occupancy:
  - 1. The Owner will continue to occupy portions of the existing building.
  - 2. Adjacent spaces will not be vacated during demolition activities.
- D. Existing Conditions:

1. After the project is begun, the Contractor is responsible for the condition of structures to be demolished. The Owner does not warrant that the condition of structures to be demolished will not have changed since the time of inspection for bidding purposes.
- E. Unforeseen Conditions: Should unforeseen conditions be encountered that affect design or function of project, investigate fully and submit an accurate, detailed, written report to the architect. While awaiting the architect's response, reschedule operations if necessary to avoid delay of overall project.

#### **1.08 FIELD CONDITIONS**

- A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- B. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- C. Hazardous Materials: It is expected that hazardous materials will be encountered in the Work.
  1. Hazardous materials will be removed by Owner during the Contractors Demolition Work.
  2. If other suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner.
  3. Hazardous materials will be removed by Owner, as indicated above, under a separate contract.
  4. Coordinate the schedule of Work to allow for Owner's abatement contractor scope of work.
  5. Attached is the HAZMAT survey for the area of the project.
- D. On-site storage or sale of removed items or materials is not permitted.

#### **PART 2 PRODUCTS - NOT USED**

#### **PART 3 EXECUTION**

##### **3.01 EXAMINATION**

- A. Survey existing conditions and correlate with drawings and specifications to determine extent of demolition required.
- B. Insofar as is practical, arrange operations to reveal unknown or concealed structural conditions for examination and verification before removal or demolition.
- C. Perform continuing surveys as the work progresses to detect hazards resulting from demolition or construction activities.
- D. Verify actual conditions to determine in advance whether removal or demolition of any element will result in structural deficiency, overloading, failure, or unplanned collapse.

##### **3.02 PREPARATION**

- A. Provide for the protection of persons passing around or through the area of demolition.
- B. Erect and maintain weatherproof closures for exterior openings.
- C. Erect and maintain temporary partitions to prevent spread of dust, odors, and noise to permit continued building occupancy. Insulate to provide noise protection to occupied areas.
- D. Construct temporary partitions in a manner at least equal to the following (or superior, if necessary to provide effective protection specified):
  1. Gypsum-board surfaces adjacent to occupied areas, with joints taped.
- E. Protect existing materials that are not to be demolished.
- F. Notify affected utility companies before starting work and comply with their requirements.
- G. Mark location and termination of utilities.
- H. Provide appropriate temporary signage including signage for exit or building egress.

- I. Damages: Without cost to the Owner and without delay, repair any damages caused to facilities to remain.

### **3.03 POLLUTION CONTROLS**

- A. Control as much as practical the spread of dust and dirt.
- B. Observe environmental protection regulations.
- C. Do not allow water usage that results in freezing or flooding.
- D. Do not allow adjacent improvements to remain to become soiled by demolition operations.

### **3.04 DEMOLITION**

- A. Disconnect, remove, and identify designated utilities within demolition areas.
- B. Demolish in an orderly and careful manner. Protect existing supporting structural members .
- C. Remove demolished materials from site except where specifically noted otherwise. Do not burn or bury materials on site.
- D. Remove materials as demolition progresses. Upon completion of demolition, leave areas in clean condition.
- E. Remove: Unless items are otherwise indicated to be reinstalled or salvaged, remove and scrap.
- F. Remove and Reinstall: Remove items indicated; clean, service, and otherwise prepare for service; reinstall in the same location (or in the location indicated).
- G. Remove and Install New: Remove and dispose of items indicated and install new items in the same location (or in the location indicated).
- H. Remove and Salvage: Items indicated to be salvaged will remain the Owner's property. Carefully remove and clean items indicated to be salvaged; pack or crate to protect against damage; identify contents of containers; deliver to the locations indicated.
- I. Remove and Scrap: Remove and dispose of items indicated.
  - 1. All demolished or removed items and materials shall be considered scrap except for those indicated to remain, those indicated to be reinstalled, and those indicated to be salvaged.
  - 2. Items of value to the contractor:
    - a. Do not store removed items on site.
- J. Existing to Remain: Construction or items indicated to remain shall be protected against damage during demolition operations. Where practicable, and with the Architect's permission, the Contractor may elect to remove items to a suitable storage location during demolition and then properly clean and reinstall the items.
- K. Perform work in a systematic manner.
- L. Demolish and remove existing construction only to the extent required by new construction and as indicated in the contract documents.
- M. Perform selective demolition using methods which are least likely to damage work to remain and which will provide proper surfaces for patching.
- N. Remove debris daily.
- O. Masonry: Detach masonry to be demolished from adjoining construction to remain with power-driven masonry saws or hand tools.
- P. Use any methods permitted by governing regulations and the requirements of the contract documents.

### **3.05 CLEANING**

- A. Remove tools and equipment. Dispose of scrap.

- B. Broom clean interior areas.
- C. Clean soil, smudges, and dust from surfaces to remain.
- D. Leave exterior areas free of debris.
- E. Return structures and surfaces to remain to condition existing prior to commencement of demolition.

**END OF SECTION**

Description    HAZMAT SURVEY - SOM (BLDG 4 - ANIMAL CARE RENOVATIONS)			
Site	USC MED	Assigned To	JPROVENCE
Building	663    MED SCHOOL V.A. #4	Crew	HAZMAT
Floor	Room:	Start Date	Priority    1
Equipment		Due date	17-APR-14
		Request Date	06-MAR-14            by   CAMOORE

Request #	FM00451405	Description	HAZMAT SURVEY - SOM (BLDG 4 - ANIMAL CARE RENOVATIONS)
Parent WO #			

CP Number	CP00399734	SOM ANIMAL CARE RENOVATIONS
-----------	------------	-----------------------------

State/Internal Project Number	H27-Z152
-------------------------------	----------

Requestor	Project Manager	FISHER, PETER L.
Telephone	Telephone	777-9346
Alternate	Estimated Cost	\$ 116.00
Telephone	Billing	FIXED PRICE
Non-Available Time	18000-W230-57120 (SOM ANIMAL CARE RENOVATIONS)	

Task List
COORDINATE WITH RICK CAMPBELL AT SOM VA CAMPUS

DATE WORK STARTED	CAUSE	
DATE WORK COMPLETED	CONDITION	
EQUIPMENT		
CLOSING REMARKS		
BENCHSTOCK MATERIALS		
Qty	Description	Price Per Unit

Supervisor's Approval \_\_\_\_\_

Note	Date	Title
06-AUG-14		HAZMAT SURVEY RESULTS
SURVEY DATE: 7/31/14		
INSPECTOR #: DARRYL WASHINGTON (BI-00568) AND ERIC MELARO (BI-01296)		
STATUS: THE INSPECTORS REVIEWED THE PROJECT SCOPE FOR THE VIVARIUM RENOVATIONS WITH LARRY KNOTT (SCHOOL OF MEDICINE) ON 7/31/14. THE PROJECT CONSISTS OF REMOVING AND REPLACING THE CEILING, LIGHTING, DUCT WORK AND HOT WATER PIPING. IN ADDITION, THE DOOR TO ROOM A35 WILL BE REMOVED AND NEW FLOORING WILL BE INSTALLED IN THE HALLWAY. THE AIR HANDLER UNITS MAY ALSO BE REPLACED. LIMITED SAMPLING WAS REQUIRED AS EXISTING DATA IS AVAILABLE THAT COVERS MOST OF THE PROJECT SCOPE.		
THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS AND THE RESULTS FOLLOW: DUCT INSULATION (ON AIR HANDLER UNITS) – POSITIVE FOR ASBESTOS GRAY VINYL BASE / GLUE – NEGATIVE FOR ASBESTOS DRYWALL TAPE – NEGATIVE FOR ASBESTOS (THESE SAMPLES SUPPLEMENT THOSE COLLECTED BY F&ME)		

THE FOLLOWING MATERIAL HAS BEEN TESTED FOR LEAD AND THE RESULTS FOLLOW:  
BROWN DOOR FRAME PAINT – NEGATIVE FOR LEAD

PREVIOUS ASBESTOS DATA SUMMARY:

12 X 12 GRAY TILE / MASTIC – POSITIVE FOR ASBESTOS  
12 X 12 OFF WHITE / BROWN / GRAY TILE / MASTIC – POSITIVE FOR ASBESTOS  
12 X 12 BLUE / WHITE TILE / MASTIC – POSITIVE FOR ASBESTOS  
PIPE INSULATION – POSITIVE FOR ASBESTOS

12X 12 LIGHT BLUE / BLACK TILE / MASTIC – NEGATIVE FOR ASBESTOS (DO NOT CUT, SAW OR GRIND THIS MATERIAL! WHILE IT DID NOT MEET THE SCDHEC OR OSHA DEFINITION OF ASBESTOS CONTAINING MATERIAL, ASBESTOS WAS IDENTIFIED AT LESS THAN 1 PERCENT IN THIS MATERIAL. AS A RESULT, WE DO NOT WANT TO RENDER THE MATERIAL FRIABLE AND INCREASE THE CHANCE OF ASBESTOS FIBERS BEING RELEASED.)

BLUE VINYL FLOORING / MASTIC – NEGATIVE FOR ASBESTOS  
CREAM PIPE MASTIC – NEGATIVE FOR ASBESTOS  
CREAM HVAC MASTIC – NEGATIVE FOR ASBESTOS  
GRAY MASTIC ON METAL DUCTS – NEGATIVE FOR ASBESTOS  
BROWN MASTIC ON METAL DUCTS – NEGATIVE FOR ASBESTOS  
TAN CAULK AT WALL PENETRATIONS – NEGATIVE FOR ASBESTOS  
INTERIOR WINDOW GLAZING – NEGATIVE FOR ASBESTOS  
PLASTER – NEGATIVE FOR ASBESTOS  
JOINT COMPOUND – NEGATIVE FOR ASBESTOS  
SHEETROCK – NEGATIVE FOR ASBESTOS  
2 X 2 TEXTURED CEILING TILE – NEGATIVE FOR ASBESTOS  
2 X 2 GYPSUM CEILING TILE – NEGATIVE FOR ASBESTOS

PREVIOUS LEAD DATA SUMMARY:

WHITE WALL PAINT (ROOM A37) – POSITIVE FOR LEAD  
WHITE WALL PAINT (OTHER AREAS IN BASEMENT) – NEGATIVE FOR LEAD  
BLUE WALL PAINT – NEGATIVE FOR LEAD

INSPECTOR'S NOTES:

THE FLEXIBLE BLACK CONNECTORS ON THE AIR HANDLER UNITS ARE PRESUMED TO BE POSITIVE FOR ASBESTOS.

NO FIREPROOFING WAS OBSERVED ABOVE THE CEILING.

THE HOT WATER LINES ARE COVERED WITH FIBERGLASS INSULATION WITH NO MASTIC. THE FIBERGLASS INSULATION IS NOT SUSPECT FOR ASBESTOS.

THE DOOR TO ROOM A35 IS UNPAINTED, SOLID WOOD WITH A WINDOW AND IS NOT SUSPECT FOR ASBESTOS.

FOR A REPORT OF PREVIOUS DATA, SEE THE "ASBESTOS CONTAINING MATERIALS INVESTIGATION REPORT" THAT WAS COMPLETED BY F&ME ON JANUARY 16, 2013. ADDITIONAL PLASTER, JOINT COMPOUND AND SHEETROCK DATA IS AVAILABLE AS PART OF FM00395651 (MAY 2012).

IF YOU ENCOUNTER ANY OTHER MATERIALS IN PLACE AND DEEM THEM SUSPECT FOR ASBESTOS AND/OR LEAD, PLEASE STOP WORK AND CONTACT THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING OR ABATEMENT.

PLEASE NOTE THAT THE MATERIAL QUANTITY PROVIDED ON THE FIELD SHEET IS ONLY AN ESTIMATE FOR SAMPLING PURPOSES. THE QUANTITY SHOULD BE FIELD VERIFIED FOR ALL OTHER PURPOSES INCLUDING ABATEMENT.

REFER TO THE SURVEY RESULTS ATTACHED TO THE WORK ORDER FOR DETAILED INFORMATION.

**16-FEB-09 ASBESTOS MAY BE PRESENT IN THIS BUILDING**

WARNING - ASBESTOS EXPOSURE ALERT - EXPOSURE TO ASBESTOS MAY BE HARMFUL TO YOUR HEALTH.

AS OF 4/1/2004 THE FOLLOWING AREAS WITHIN THE BUILDING HAVE BEEN IDENTIFIED BY SURVEY TO CONTAIN ASBESTOS:

BLDG 663 VA BUILDING #4



STEAM LINE IN CEILING OF BASEMENT --> [220 LIN. FT.]

PLEASE NOTE - IDENTIFICATION OF ASBESTOS CONTAINING COMPONENTS WITHIN THIS STRUCTURE DOES NOT SPECIFICALLY EXCLUDE THE PRESENCE OF ASBESTOS WITHIN OTHER AREAS.

THE FOLLOWING COMMON TYPES OF BUILDING COMPONENTS COULD CONTAIN MATERIALS THAT, WHEN DISTURBED, MIGHT EXPOSE YOU TO ASBESTOS:

1. FLOOR TILE
2. PIPE INSULATION
3. BLACK MASTIC
4. HVAC DUCT MASTIC
5. SPRAYED-ON FIREPROOFING
6. SPRAYED-ON CEILINGS
7. SHEETROCK JOINT COMPOUND

BEFORE DISTURBING THESE TYPES OF COMPONENTS, CONFIRM THAT THEY DO NOT CONTAIN ASBESTOS AND TAKE PROPER PRECAUTIONS AT ALL TIMES.

EMSI ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (300) 220-3E75  
FAX: (856) 786-5974

Page 1 Of 2



4255

Building # 663 MEDICAL PARK 4

Sample Analysis

Type of Analysis: Lead (Asbestos) Date: 7/31/14

Turn Around Time 24 HRS

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	DUCT INSULATION MASTIC	4AAC2 LINE	NF	G	<275 LIN FT	LOW
A	2	DUCT INSULATION MASTIC	4AC1 LINE	NF	G	<275 LIN FT	LOW
A	3	DUCT INSULATION MASTIC	4AC2 LINE (from 7th floor)	NF	G	<275 LIN FT	LOW
B	4	GREY VINYL BASE / GLUE	OUTSIDE ROOM A32	NF	G	600 LIN FT	LOW
B	5	GREY VINYL BASE / GLUE	OUTSIDE ROOM A28	NF	G	600 LIN FT	LOW
B	6	GREY VINYL BASE / GLUE	OUTSIDE ROOM A26 (from 7th floor)	NF	G	600 LIN FT	LOW
C	7	DRYWALL TAPE	HALL OUTSIDE ROOM A35	F	G	>5000 SQ FT	LOW
C	8	DRYWALL TAPE	HALL OUTSIDE ROOM A28	F	G	>5000 SQ FT	LOW
C	9	DRYWALL TAPE	HALL NEAR A20	F	G	>5000 SQ FT	LOW
			3 SAMPLES ARE TO COMPLETE F&ME REPORT				

License # BI-00568

FM# FM00451405

Signature

Requestor

PETE FISHER

Send lab results in PDF and CSV format as soon as possible to: asbestos@mailbox.sc.edu

**EMSL Analytical, Inc.**

706 Gralin Street, Kernersville, NC 27284

Phone/Fax: (336) 992-1025 / (336) 992-4175

<http://www.EMSL.com>[greensborolab@emsl.com](mailto:greensborolab@emsl.com)

EMSL Order: 021404255

CustomerID: UNSC62

CustomerPO:

ProjectID:

Attn: **USC Hazmat**  
**University of South Carolina**  
**743 Greene Street**  
**Columbia, SC 29208**

Phone: (803) 777-7000  
Fax: (803) 777-3990  
Received: 08/01/14 10:00 AM  
Analysis Date: 8/2/2014  
Collected:

Project: **663 Medical Park 4**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1 021404255-0001	Duct Insulation Mastic	Gray/Beige Fibrous Homogeneous	5% Glass	93% Non-fibrous (other)	2% Chrysotile
2 021404255-0002	Duct Insulation Mastic				Stop Positive (Not Analyzed)
3 021404255-0003	Duct Insulation Mastic				Stop Positive (Not Analyzed)
4-Cove Base 021404255-0004	Vinyl Base/ Mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
4-Mastic 021404255-0004A	Vinyl Base/ Mastic	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
5-Cove Base 021404255-0005	Vinyl Base/ Mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
5-Mastic 021404255-0005A	Vinyl Base/ Mastic	Brown/Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
6-Cove Base 021404255-0006	Vinyl Base/ Mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6-Mastic 021404255-0006A	Vinyl Base/ Mastic	Beige Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected

## Analyst(s)

Kristie Elliott (9)  
Nicole Shutts (4)

Stephen Bennett, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from 08/02/2014 16:03:56

**EMSL Analytical, Inc.**

706 Gralin Street, Kernersville, NC 27284

Phone/Fax: (336) 992-1025 / (336) 992-4175

<http://www.EMSL.com>[greensborolab@emsl.com](mailto:greensborolab@emsl.com)

EMSL Order: 021404255

CustomerID: UNSC62

CustomerPO:

ProjectID:

Attn: **USC Hazmat**  
**University of South Carolina**  
**743 Greene Street**  
**Columbia, SC 29208**

Phone: (803) 777-7000  
Fax: (803) 777-3990  
Received: 08/01/14 10:00 AM  
Analysis Date: 8/2/2014  
Collected:

Project: **663 Medical Park 4**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
7-Joint Compound 021404255-0007	Drywall Tape	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
7-Tape 021404255-0007A	Drywall Tape	Beige Fibrous Homogeneous	100% Cellulose	0% Non-fibrous (other)	None Detected
8-Joint Compound 021404255-0008	Drywall Tape	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
8-Tape 021404255-0008A	Drywall Tape	Beige Fibrous Homogeneous	100% Cellulose	0% Non-fibrous (other)	None Detected
9-Joint Compound 021404255-0009	Drywall Tape	White Non-Fibrous Homogeneous	<1% Cellulose	20% Ca Carbonate 80% Non-fibrous (other)	None Detected
9-Tape 021404255-0009A	Drywall Tape	Beige Fibrous Homogeneous	100% Cellulose	0% Non-fibrous (other)	None Detected

Analyst(s)

Kristie Elliott (9)

Nicole Shutts (4)

Stephen Bennett, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from 08/02/2014 16:03:56

**EMSL Analytical, Inc.**

706 Gralin Street, Kernersville, NC 27284

Phone/Fax: (336) 992-1025 / (336) 992-4175

<http://www.EMSL.com>[greensborolab@emsl.com](mailto:greensborolab@emsl.com)

EMSL Order: 021404255

CustomerID: UNSC62

CustomerPO:

ProjectID:

Attn: **USC Hazmat**  
**University of South Carolina**  
**743 Greene Street**  
**Columbia, SC 29208**

Phone: (803) 777-7000  
Fax: (803) 777-3990  
Received: 08/01/14 10:00 AM  
Analysis Date: 8/5/2014  
Collected:

Project: **663 Medical Park 4**

**Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM**  
**via EPA/600/R-93/116 Section 2.5.5.1**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
6-Cove Base 021404255-0006	Vinyl Base/ Mastic	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected
6-Mastic 021404255-0006A	Vinyl Base/ Mastic	Yellow Non-Fibrous Homogeneous	100	None	No Asbestos Detected

Analyst(s)

Stephen Bennett (2)

Stephen Bennett, Laboratory Manager  
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

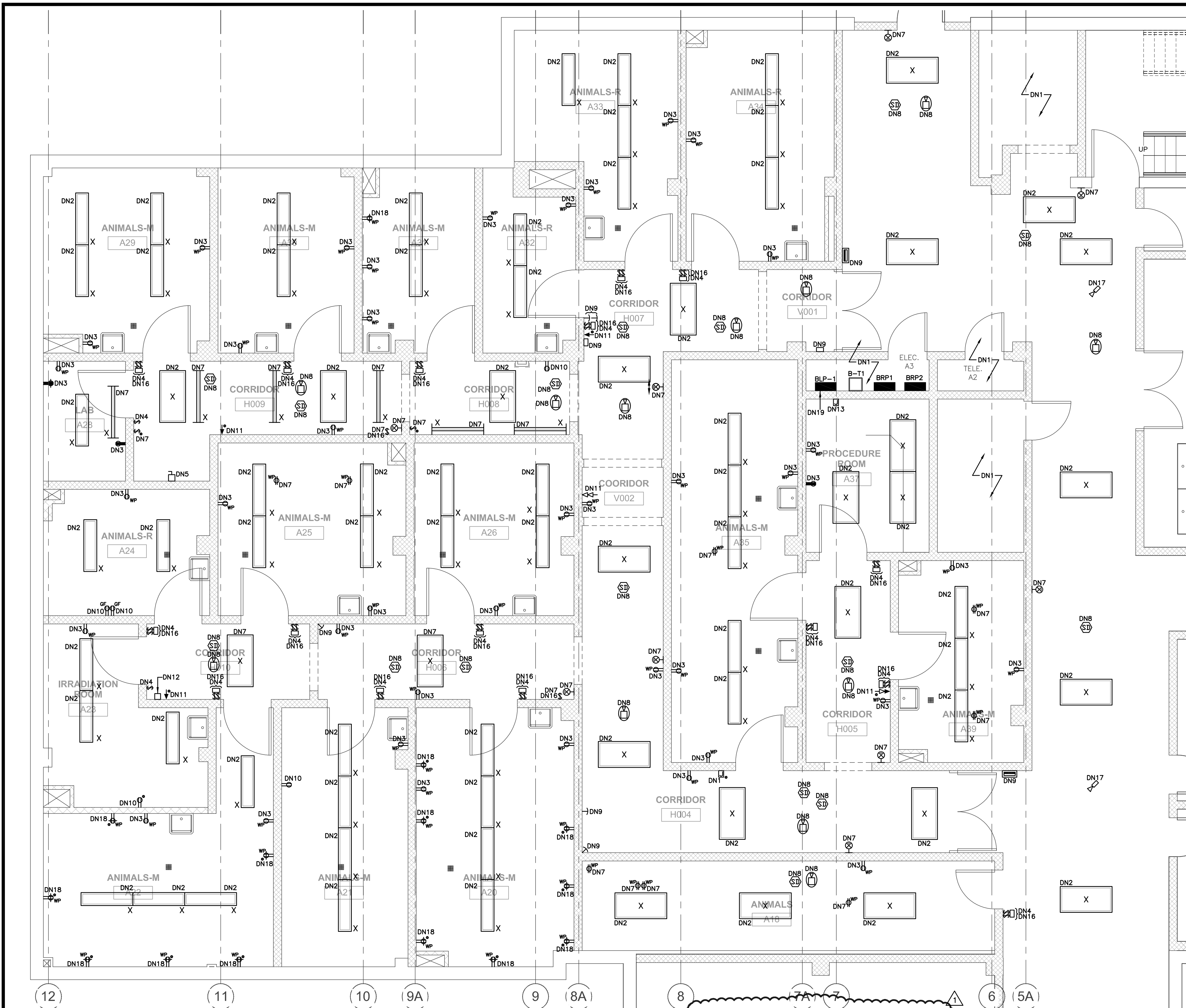
Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from 08/05/2014 09:46:50

Reading No	Time	Type	Duration	Units	Sequence	Component	Substrate	Side	Condition	Color	Site	Inspector	Floor	Room	Misc 1	Misc 2	Results	Depth Index	Action Level	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
2068	5/22/2012 10:52	PAINT		3.9 mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	HALL	BLD 4		Negative	1	0.7 < LOD		0.03 < LOD		0.03 < LOD		0.75
2069	5/22/2012 10:52	PAINT		3.5 mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	HALL	BLD 4		Negative	1.7	0.7 < LOD		0.03 < LOD		0.03 < LOD		0.75
2070	5/22/2012 10:53	PAINT		3.51 mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	HALL	BLD 4		Negative	1.3	0.7 < LOD		0.03 < LOD		0.03 < LOD		0.75
2071	5/22/2012 10:53	PAINT		2.35 mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	HALL	BLD 4		Negative	1	0.7 < LOD		0.03 < LOD		0.03 < LOD		1.51
2072	5/22/2012 10:53	PAINT		3.49 mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	HALL	BLD 4		Negative	1	0.7 < LOD		0.03 < LOD		0.03 < LOD		0.75
2073	5/22/2012 10:53	PAINT		3.12 mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	HALL	BLD 4		Negative	1	0.7 < LOD		0.03 < LOD		0.03 < LOD		1.25
2074	5/22/2012 10:54	PAINT		3.89 mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	HALL	BLD 4		Negative	1	0.7 < LOD		0.03 < LOD		0.03 < LOD		0.74
2075	5/22/2012 10:54	PAINT		3.88 mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	HALL	BLD 4		Negative	1.56	0.7 < LOD		0.03 < LOD		0.03 < LOD		0.75
2076	5/22/2012 10:54	PAINT		3.92 mg / cm ^2	Final	WALL	DRYWALL		PEELING	BLUE	MED SCHOOL	WASHINGTON	BASEMENT	HALL	BLD 4		Negative	1.99	0.7 < LOD		0.03 < LOD		0.03 < LOD		0.75
2077	5/22/2012 10:55	PAINT		3.91 mg / cm ^2	Final	WALL	DRYWALL		PEELING	BLUE	MED SCHOOL	WASHINGTON	BASEMENT	HALL	BLD 4		Negative	1.69	0.7 < LOD		0.03 < LOD		0.03 < LOD		0.75
2078	5/22/2012 10:55	PAINT		0.39 mg / cm ^2	Final	WALL	DRYWALL		PEELING	BLUE	MED SCHOOL	WASHINGTON	BASEMENT	HALL	BLD 4		Null	1	0.7 < LOD		0.05 < LOD		0.05 < LOD		4.05
2079	5/22/2012 10:55	PAINT		3.49 mg / cm ^2	Final	WALL	DRYWALL		PEELING	BLUE	MED SCHOOL	WASHINGTON	BASEMENT	HALL	BLD 4		Negative	1	0.7 < LOD		0.03 < LOD		0.03 < LOD		0.75
2080	5/22/2012 10:55	PAINT		3.12 mg / cm ^2	Final	WALL	DRYWALL		POOR	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	a20	BLD 4		Negative	1.57	0.7 < LOD		0.03 < LOD		0.03 < LOD		1.05
2081	5/22/2012 10:56	PAINT		2.35 mg / cm ^2	Final	WALL	DRYWALL		POOR	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	a20	BLD 4		Negative	1	0.7 < LOD		0.03 < LOD		0.03 < LOD		1.15
2082	5/22/2012 10:56	PAINT		3.12 mg / cm ^2	Final	WALL	DRYWALL		POOR	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	a20	BLD 4		Negative	1	0.7 < LOD		0.03 < LOD		0.03 < LOD		1.07
2083	5/22/2012 10:56	PAINT		1.57 mg / cm ^2	Final	WALL	DRYWALL		POOR	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	a20	BLD 4		Negative	1	0.7 < LOD		0.03 < LOD		0.03 < LOD		1.47
2084	5/22/2012 11:01	PAINT		1.57 mg / cm ^2	Final	WALL	PLASTER		POOR	BLUE	MED SCHOOL	WASHINGTON	BASEMENT	cage wash side	BLD 4		Null	1	0.7 < LOD		0.03 < LOD		0.03 < LOD		2.1
2085	5/22/2012 11:01	PAINT		5.08 mg / cm ^2	Final	WALL	PLASTER		POOR	BLUE	MED SCHOOL	WASHINGTON	BASEMENT	cage wash side	BLD 4		Null	1	0.7 < LOD		0.03 < LOD		0.03	0.8	0.5
2086	5/22/2012 11:01	PAINT		8.97 mg / cm ^2	Final	WALL	PLASTER		POOR	BLUE	MED SCHOOL	WASHINGTON	BASEMENT	cage wash side	BLD 4		Negative	1	0.7 < LOD		0.03 < LOD		0.03	0.8	0.4
2087	5/22/2012 11:02	PAINT		3.11 mg / cm ^2	Final	WALL	PLASTER		POOR	BLUE	MED SCHOOL	WASHINGTON	BASEMENT	cage wash side	BLD 4		Negative	1	0.7 < LOD		0.03 < LOD		0.03 < LOD		1.06
2088	5/22/2012 11:03	PAINT		4.66 mg / cm ^2	Final	FLOOR	CONCRETE		POOR	BLUE	MED SCHOOL	WASHINGTON	BASEMENT	a37	BLD 4		Negative	1.22	0.7 < LOD		0.03 < LOD		0.03 < LOD		0.9
2089	5/22/2012 11:03	PAINT		6.27 mg / cm ^2	Final	FLOOR	CONCRETE		POOR	BLUE	MED SCHOOL	WASHINGTON	BASEMENT	a37	BLD 4		Negative	1.01	0.7 < LOD		0.03 < LOD		0.03 < LOD		0.75
2090	5/22/2012 11:03	PAINT		5.07 mg / cm ^2	Final	FLOOR	CONCRETE		POOR	BLUE	MED SCHOOL	WASHINGTON	BASEMENT	a37	BLD 4		Negative	2.03	0.7 < LOD		0.03 < LOD		0.03 < LOD		0.9
2091	5/22/2012 11:04	PAINT		10.94 mg / cm ^2	Final	FLOOR	CONCRETE		POOR	BLUE	MED SCHOOL	WASHINGTON	BASEMENT	a37	BLD 4		Null	1.46	0.7 < LOD		0.03 < LOD		0.03	0.9	0.4
2092	5/22/2012 11:04	PAINT		6.63 mg / cm ^2	Final	FLOOR	CONCRETE		POOR	BLUE	MED SCHOOL	WASHINGTON	BASEMENT	a37	BLD 4		Negative	1.85	0.7 < LOD		0.03 < LOD		0.03 < LOD		0.75
2093	5/22/2012 11:06	PAINT		1.17 mg / cm ^2	Final	WALL	PLASTER		INTACT	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	a37	BLD 4		Positive	6.36	0.7	4.3	2.6	5	3	4.3	2.6
2094	5/22/2012 11:06	PAINT		1.97 mg / cm ^2	Final	WALL	PLASTER		INTACT	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	a37	BLD 4		Positive	5.6	0.7	1.8	1	1.8	1	3	1.8
2095	5/22/2012 11:07	PAINT		1.57 mg / cm ^2	Final	WALL	PLASTER		INTACT	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	a37	BLD 4		Positive	4.26	0.7	3.7	1.6	3.7	1.6	4.4	2.2
2096	5/22/2012 11:07	PAINT		8.97 mg / cm ^2	Final	WALL	PLASTER		INTACT	WHITE	MED SCHOOL	WASHINGTON	BASEMENT	a37	BLD 4		Null	3.52	0.7	0.29	0.09	0.29	0.09	1	0.4

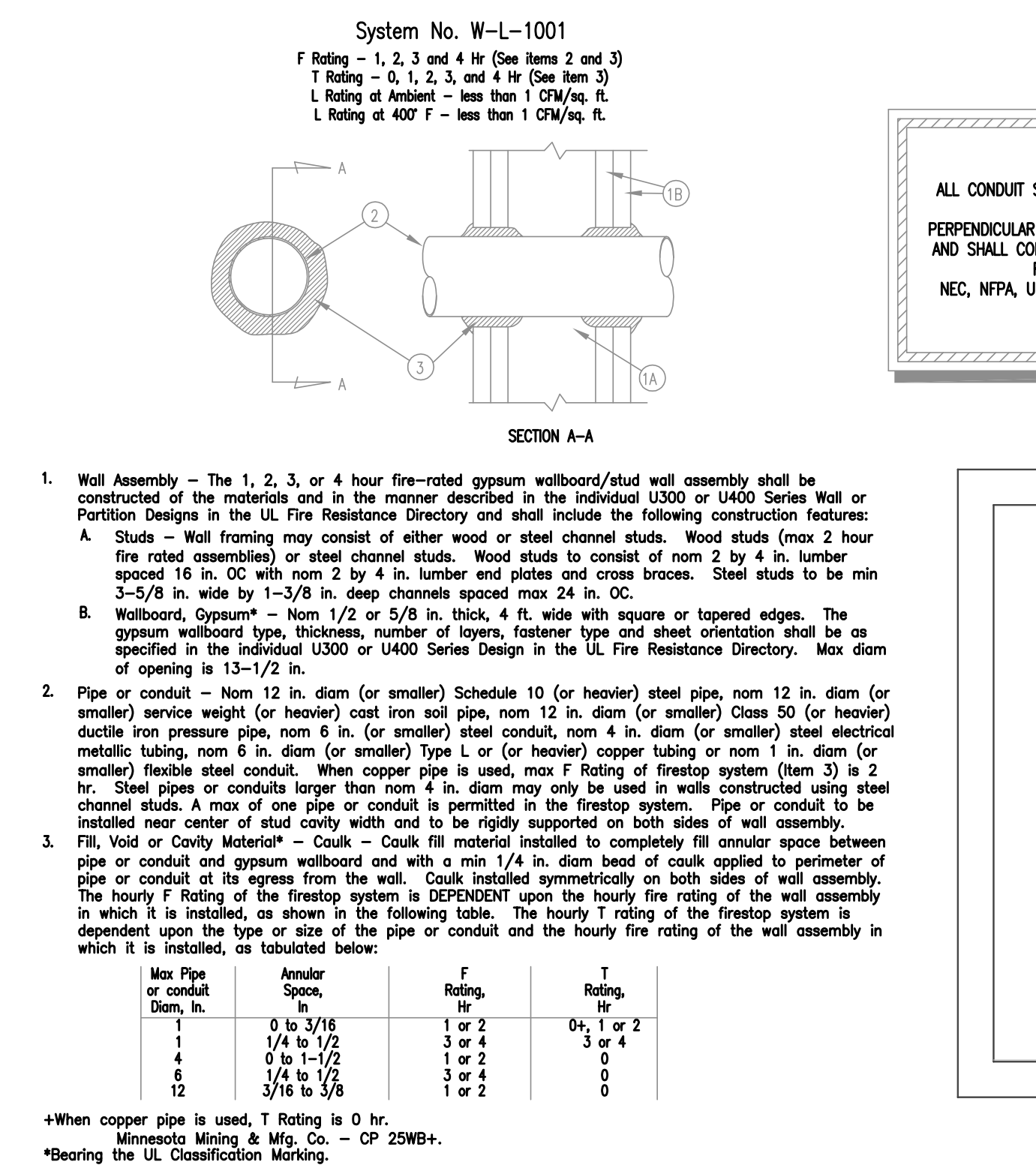
Reading No	Time	Type	Duration	Units	Sequence	Component	Substrate	Side	Condition	Color	Site	Inspector	Floor	Room	Misc 1	Misc 2	Results	Depth Index	Action Level	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
162	7/31/2014 9:09	PAINT		1.22 mg / cm ^2	Final	door frame	METAL		INTACT	BROWN	med park 4	wash	BASEMENT	a35			Negative	2.26	0.7 < LOD		0.13 < LOD		0.13 < LOD		2.66
163	7/31/2014 9:09	PAINT		1.82 mg / cm ^2	Final	door frame	METAL		INTACT	BROWN	med park 4	wash	BASEMENT	a35			Negative	3.16	0.7 < LOD		0.17 < LOD		0.17 < LOD		1.92
164	7/31/2014 9:09	PAINT		1.21 mg / cm ^2	Final	door frame	METAL		INTACT	BROWN	med park 4	wash	BASEMENT	HALL			Negative	1.3	0.7 < LOD		0.08 < LOD		0.08 < LOD		2.62
165	7/31/2014 9:10	PAINT		1.22 mg / cm ^2	Final	door frame	METAL		INTACT	BROWN	med park 4	wash	BASEMENT	HALL			Negative	4.21	0.7 < LOD		0.34 < LOD		0.34 < LOD		2.7



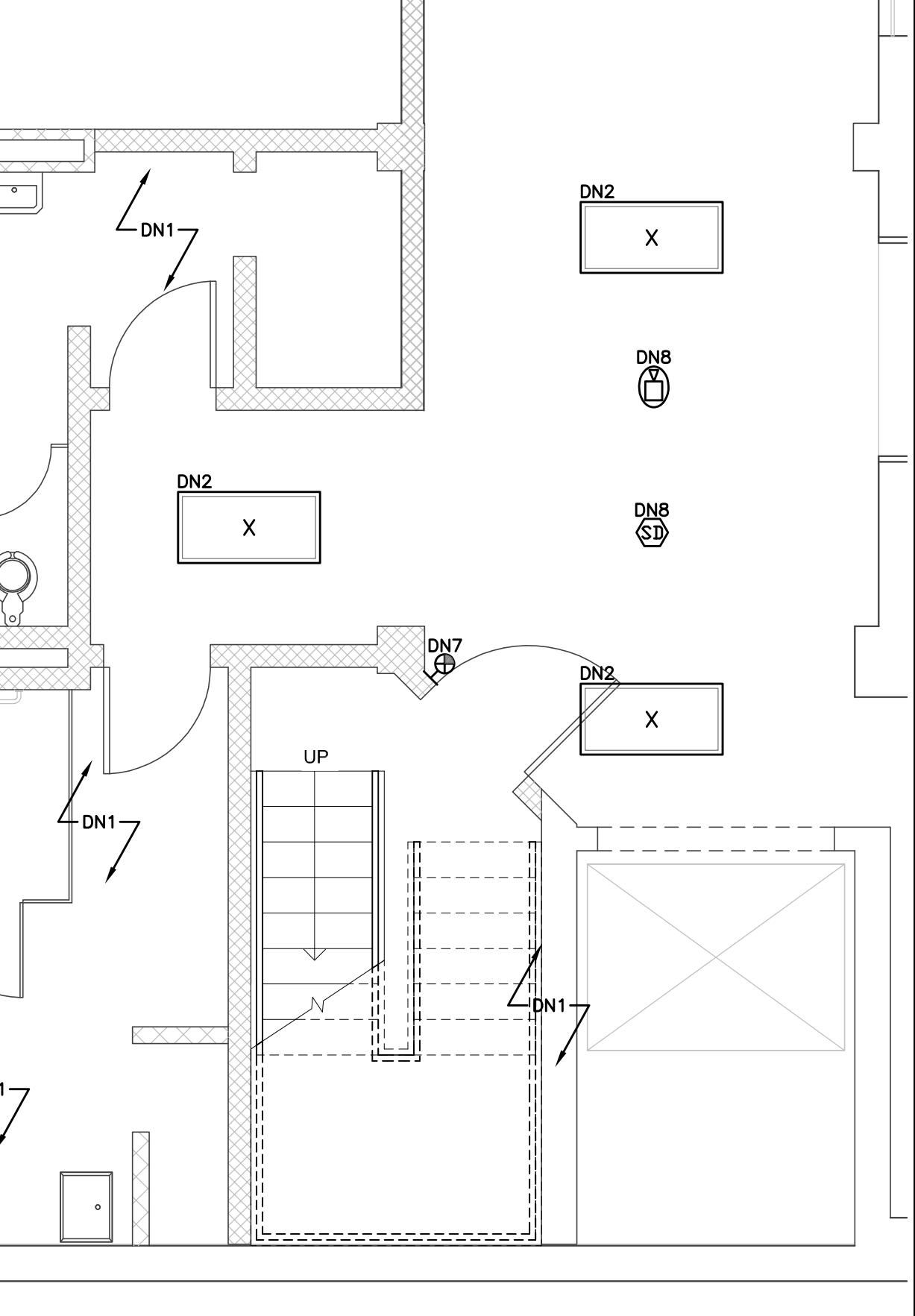
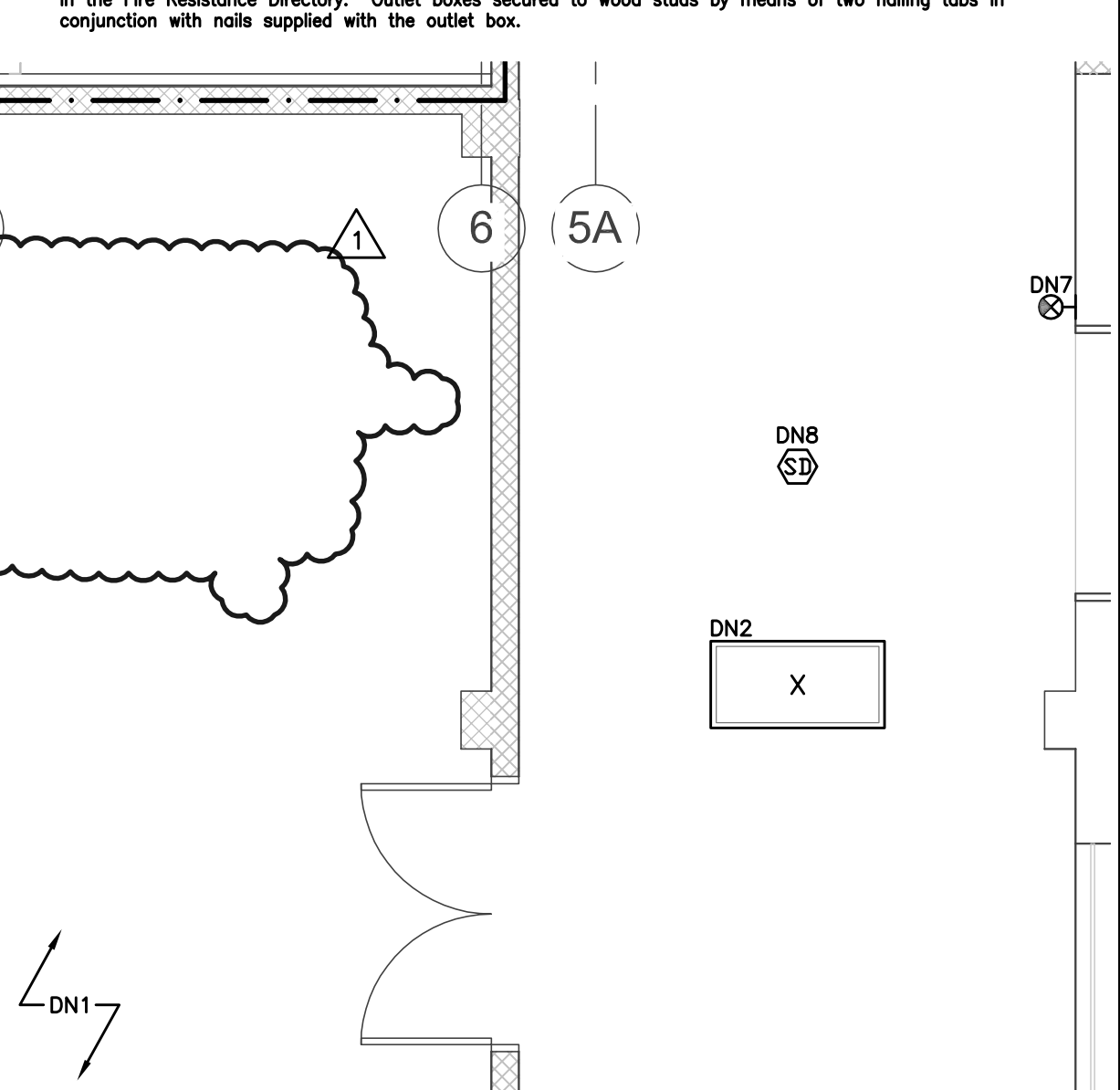
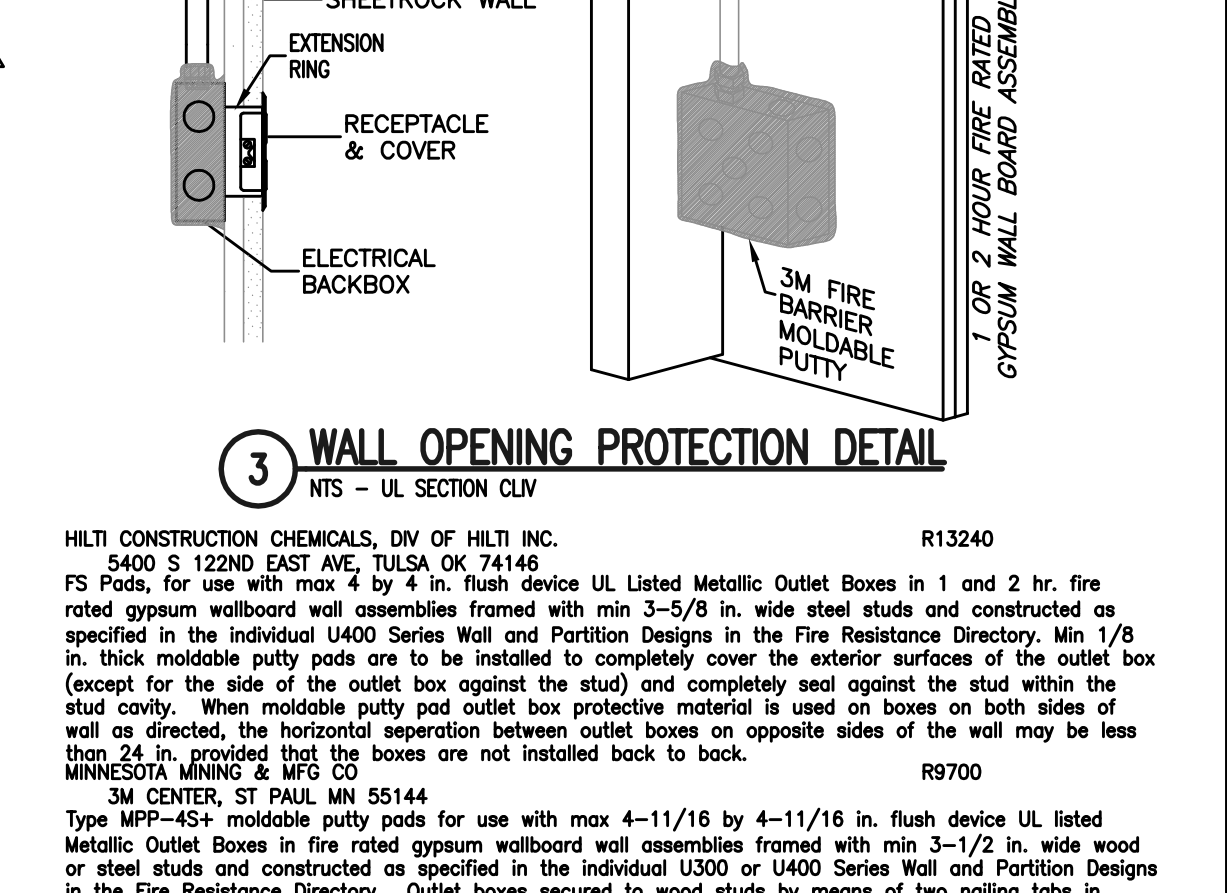
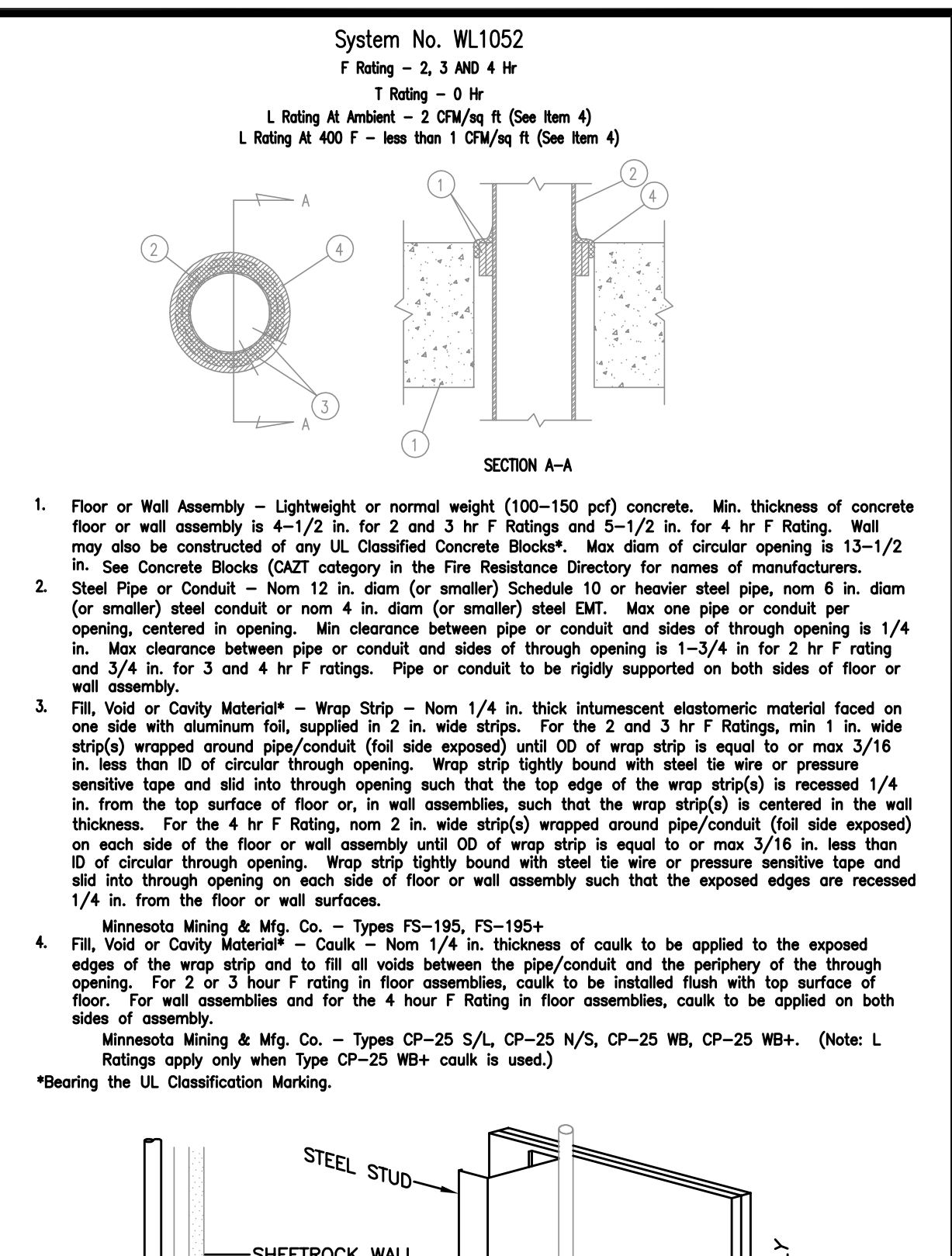
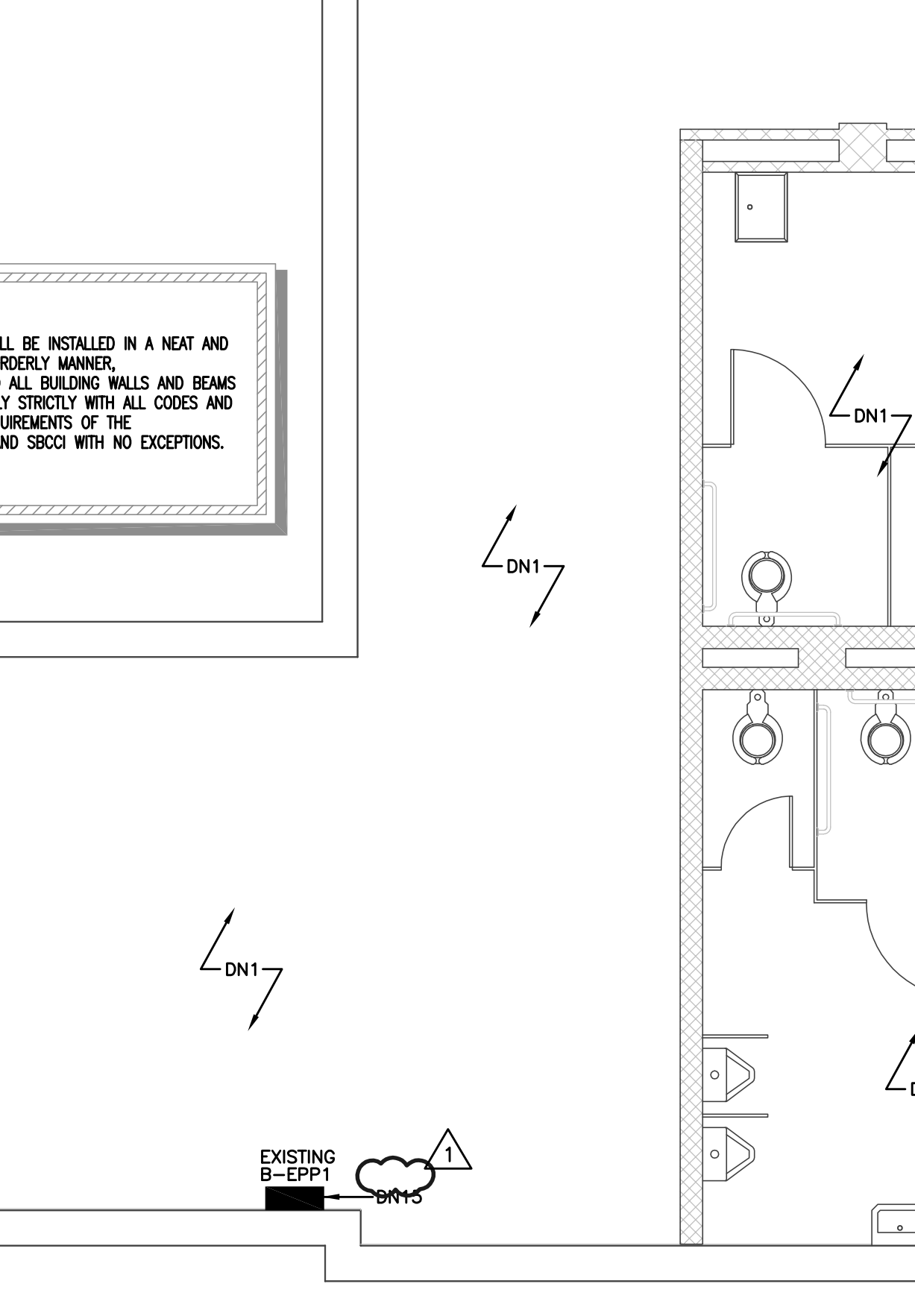
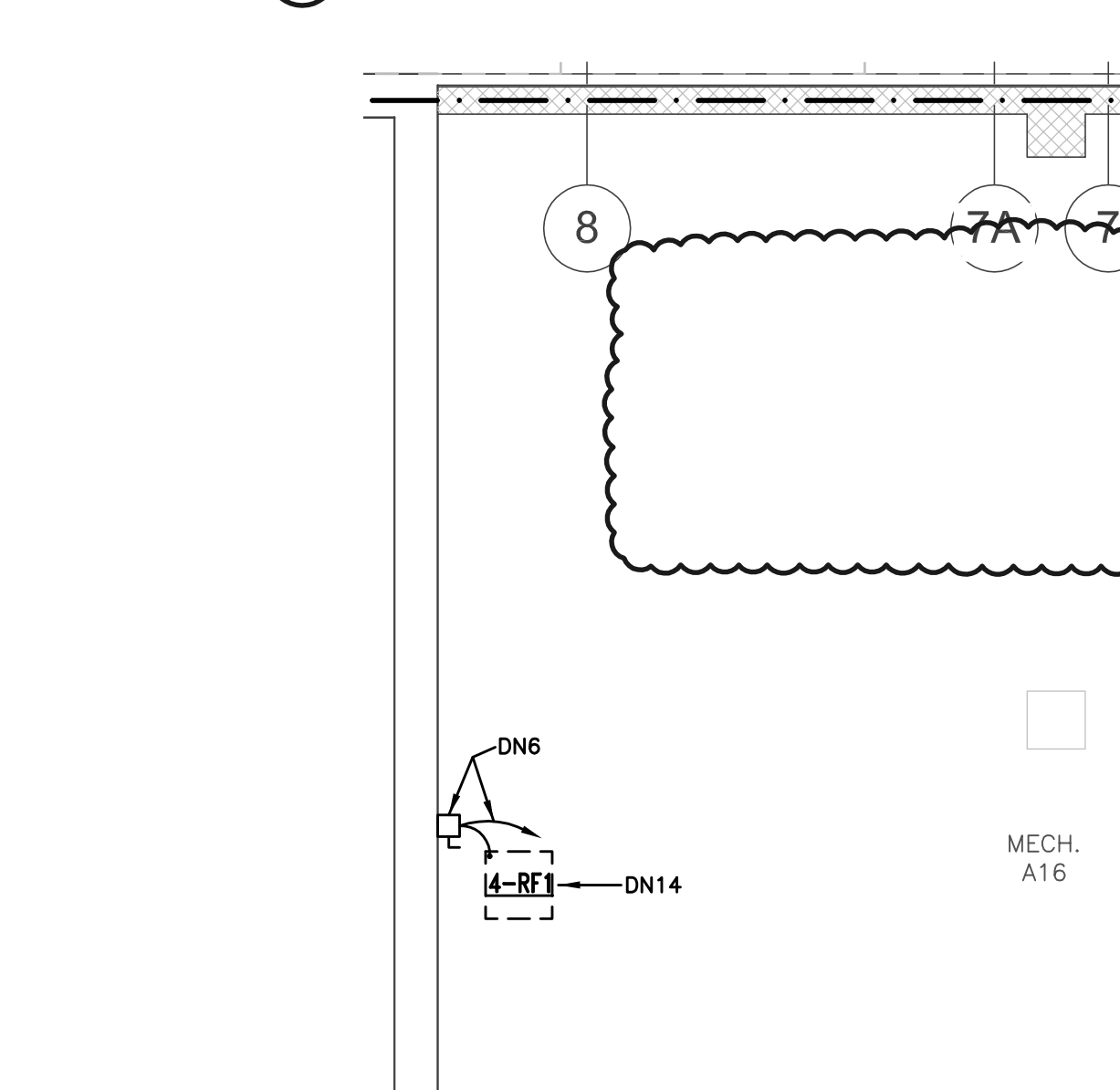
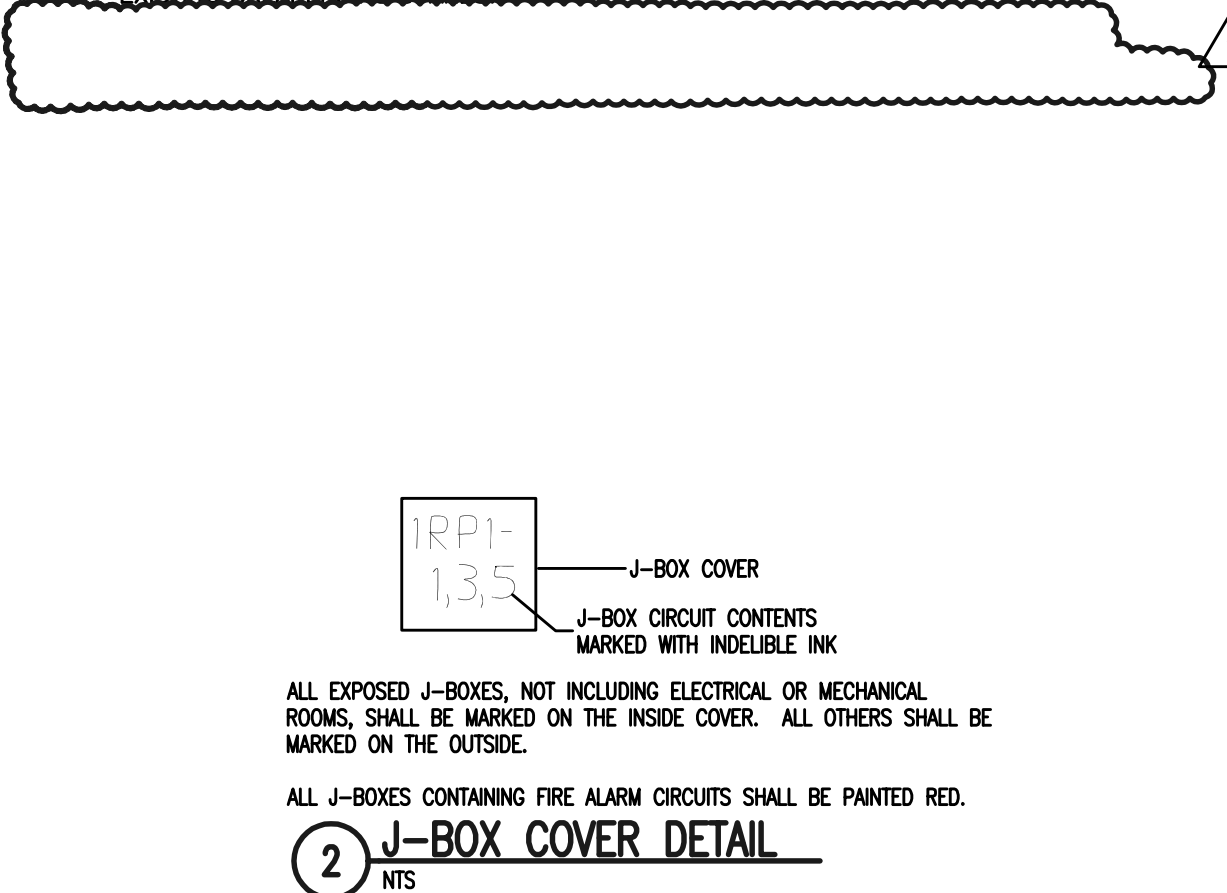


ELECTRICAL SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
	BRANCH CIRCUIT RACEWAY. RUN CONCEALED IN CEILING OR WALLS. ARROWHEAD DENOTES HOMERUN TO PANEL. CROSSLINES DENOTE NUMBER OF PHASE AND NEUTRAL CONDUCTORS WHEN MORE THAN TWO ARE TO BE INSTALLED. TEXT DENOTES PANEL NAME AND CIRCUIT NUMBERS FOR HOMERUN. INCLUDE GROUND WIRE IN ALL CIRCUITS. #12 AWG MINIMUM AND AS PER CODE. WHERE ALLOWED BY CODE, ALL 20 AMP LIGHTING AND RECEPTACLE CIRCUITS SHALL BE TYPE NM-CABLE. OTHER CIRCUITS WHERE INDICATED ON PLANS SHALL BE IN CONDUIT.
	BRANCH CIRCUIT. SAME AS ABOVE EXCEPT RUN IN AND/OR UNDER SLAB.
	FLEXIBLE CONDUIT. WEATHERPROOF TYPE WHEN CONNECTED TO MOTORS. CROSSLINES DENOTE NUMBER OF PHASE AND NEUTRAL CONDUCTORS WHEN MORE THAN TWO ARE INSTALLED. INSTALL GROUND WIRE WIRE #12 AWG MINIMUM.
	SPACE NAME AND NUMBER. COORDINATE WITH ARCHITECTURAL SPACE NUMBER.
	CEILING MOUNTED FLUORESCENT LIGHT FIXTURE. LETTER DENOTES TYPE OF FIXTURE, SEE FIXTURE SCHEDULE. NUMBER DENOTES CIRCUIT NUMBER. SEE REFLECTED CEILING PLAN.
	RECESSED FLUORESCENT LIGHT FIXTURE. LETTER DENOTES TYPE OF FIXTURE, SEE FIXTURE SCHEDULE. NUMBER DENOTES CIRCUIT NUMBER. SEE REFLECTED CEILING PLAN.
	FLUORESCENT STRIP LIGHT. LETTER DENOTES TYPE OF FIXTURE, SEE FIXTURE SCHEDULE. NUMBER DENOTES CIRCUIT NUMBER.
	EXIT SIGN. REFER TO FIXTURE SCHEDULE. DARKENED AREA DENOTES SIGN FACE. NUMBER DENOTES CIRCUIT NUMBER. STEM DESIGNATES WALL MOUNTING. NO STEM DENOTES CEILING MOUNTED. SEE FIXTURE SCHEDULE.
	LIGHT SWITCH, SPST. 20A.
	ELECTRONIC TIME CONTROL SWITCH. SEE SPECIFICATIONS.
	CEILING MOUNTED FIRE ALARM HORN WITH FLASHING LIGHT. NUMBER DENOTES CADELLA LIGHT LEVEL OF STROBE.
	CEILING MOUNTED SMOKE DETECTOR. IONIZATION.
	WALL MOUNTED SECURITY DEVICE.
	SECURITY CARD READER.
	DENOTES WALL MOUNTED DEVICE.
	SURFACE WALL MOUNTED JUNCTION BOX, SIZED PER NEC. PROVIDE AND INSTALL A SURFACE COVER PLATE.
	"E" BY ELECTRICAL DEVICE DESIGNATES THAT DEVICE AS EXISTING FROM DEMOLITION.
SYMBOL	DESCRIPTION
	ELECTRICAL CIRCUIT BREAKER PANELBOARD. SEE PANEL SPECIFICATIONS AND SCHEDULES.
	DUPLEX RECEPTACLE, 120 VOLT, 20 AMP, WALL MOUNTED, 16" AFF, UNLESS OTHERWISE NOTED. THE NUMBER DENOTES CIRCUIT NUMBER.
	DUPLEX RECEPTACLE, 120 VOLT, 20 AMP, WALL MOUNTED, GROUND FAULT CIRCUIT INTERRUPTER, 16" AFF. THE NUMBER DENOTES CIRCUIT NUMBER. "WIP" DENOTES WEATHERPROOF COVER.
	DUPLEX RECEPTACLE, 240 VOLT, WALL MOUNTED. THE ONE NUMBER DENOTES THE AMPERE RATING. THE TWO NUMBER DENOTES CIRCUIT NUMBER.
	SURFACE WALL MOUNTED DISCONNECT SWITCH. HEAVY DUTY. NOTATION DENOTES TYPE ON SCHEDULE.
	SINGLE GANG DATA OUTLET. FLUSH WALL MOUNTED, 3" ABOVE COUNTERTOP BACKSPASH (48" AFF IF NOT MOUNTED ABOVE CASEWORK). FURNISH AND INSTALL A BLANK COVER PLATE. INSTALL PULL WIRE IN RACEWAY.
	TELEPHONE OUTLET. WALL TYPE, SINGLE GANG, 3" ABOVE THE TOP OF THE COUNTERTOP BACKSPASH OR 48" AFF IF NOT MOUNTED ABOVE CASEWORK.

1 PARTIAL BASEMENT FLOOR PLAN - DEMOLITION  
1/4"=1'-0"



- GENERAL NOTES (DN):
- REMOVE ALL EXPOSED ABANDONED WIRING IN ALL SPACES TO SOURCE OF SUPPLY.
  - REMOVE ALL EXPOSED ABANDONED CONDUIT IN ALL SPACES OF CONSTRUCTION.
  - DISCONNECT AND REMOVE ELECTRICAL DEVICES SERVING DEMOLISHED EQUIPMENT IN ALL SPACES.
  - DISCONNECT AND REMOVE ABANDONED LUMINAIRES, REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES IN ALL SPACES.
  - ALL REMOVED EQUIPMENT, CONDUIT, AND WIRE SHALL BE TRANSPORTED TO THE OWNER'S STORAGE FACILITY BY THE CONTRACTOR. ALL EQUIPMENT/ITEMS THAT THE OWNER DOES NOT WANT TO RETAIN OWNERSHIP SHALL BECOME PROPERTY OF THE CONTRACTOR AND CONTRACTOR SHALL TRANSPORT OFF SITE AND DISPOSE.
- DEMOLITION NOTES (DN):
- EXISTING ELECTRICAL ELEMENTS SHALL REMAIN AS-IS AND BE PROTECTED DURING DEMOLITION UNLESS OTHERWISE NOTED.
  - EXISTING LIGHT FIXTURE SHALL BE DISCONNECTED AND REMOVED. EXISTING LIGHTING CIRCUIT, CONDUIT, WIRE, AND BACKBOX SHALL REMAIN.
  - EXISTING WEATHERPROOF RECEPTACLE SHALL REMAIN AS-IS AND BE PROTECTED DURING DEMOLITION.
  - DISCONNECT AND REMOVE EXISTING LIGHT SWITCH, FACE PLATE, AND ELECTROMECHANICAL TIMER DEVICE. CONDUIT, WIRE, AND BACKBOX SHALL BE REMOVED COMPLETELY.
  - DISCONNECT AND REMOVE EXISTING WALL MOUNTED DISCONNECT SWITCH. EXISTING CONDUIT AND WIRE SHALL BE REMOVED BACK TO SOURCE PANEL. MARK EXISTING BREAKERS IN EXISTING PANEL AS SPARES. REPAIR WALL TO CONDITION OF REMAINING WALL. COORDINATE.
  - EXISTING HVAC UNIT DISCONNECT SWITCH SHALL BE REMOVED. EXISTING FEEDER AND CONDUIT SHALL REMAIN AND BE DISCONNECTED FROM EXISTING HVAC UNIT. DISCONNECT SWITCH, EC SHALL RECONNECT EXISTING FEEDER TO NEW HVAC UNIT IN RENOVATION. COORDINATE.
  - DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICE, CONDUIT, WIRE, AND BACKBOX SHALL BE REMOVED COMPLETELY BACK TO SOURCE J-BOX. RE-CIRCUIT AS REQUIRED ALL DOWNSTREAM ELECTRICAL DEVICES. COORDINATE.
  - DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICE. EXISTING FIRE ALARM CIRCUIT SHALL REMAIN. EXTEND EXISTING FIRE ALARM CIRCUIT AS REQUIRED FOR RELOCATION AS SHOWN ON RENOVATION PLAN.
  - EXISTING SECURITY DEVICE SHALL REMAIN AS-IS AND BE PROTECTED DURING DEMOLITION.
  - DISCONNECT AND REMOVE EXISTING RECEPTACLE AND FACEPLATE. EXISTING CONDUIT, WIRE, AND BACKBOX SHALL REMAIN.
  - DISCONNECT AND REMOVE EXISTING FACEPLATE. EXISTING BACKBOX, CONDUIT, AND WIRE SHALL REMAIN.
  - EXISTING HAND SCANNER SHALL REMAIN AS-IS AND BE PROTECTED DURING DEMOLITION.
  - EXISTING FUME HOOD CIRCUIT SHALL REMAIN AS-IS AND BE PROTECTED DURING DEMOLITION.
  - DISCONNECT EXISTING CIRCUIT FROM EXISTING HVAC UNIT. MC TO REMOVE EXISTING HVAC UNIT.
  - DISCONNECT AND TURN OVER TO OWNER EXISTING 20A/480V/3P BREAKER EXISTING EXISTING FAN 4-WIRE IN SPACES 26,28, AND 30. COORDINATE.
  - INSTALL AN STAINLESS STEEL COVER PLATE OVER EMPTY LIGHT SWITCH J-BOX IN RENOVATION WORK. COORDINATE.
  - DISCONNECT AND REMOVE EXISTING SECURITY DEVICE. EXISTING SECURITY CIRCUIT SHALL REMAIN. EXTEND EXISTING SECURITY CIRCUIT AS REQUIRED FOR RELOCATION OF SECURITY DEVICE AS SHOWN ON RENOVATION PLAN.
  - DISCONNECT AND REMOVE EXISTING RECEPTACLE, WIRE, AND CONDUIT BACK TO SOURCE J-BOX. EXISTING BACKBOX SHALL REMAIN AS-IS. RE-CIRCUIT AS REQUIRED ALL DOWNSTREAM ELECTRICAL DEVICES.
  - DISCONNECT EXISTING LIGHTING CIRCUITS 2,4,6 FROM EXISTING PANEL BLP-1. MARK EXISTING BREAKERS AS SPARES.



ALL RIGHTS RESERVED. THIS DRAWING AND THE DESIGN SHOWN THEREON ARE COPYRIGHTED AS PRESCRIBED BY THE LAWS OF THE UNITED STATES AND ARE THE PROPERTY OF G M K ASSOCIATES, INC. ANY REPRODUCTION, COPYING, OR CAUSING TO BE REPRODUCED THE WHOLE OR PART OF THESE DRAWINGS OR THE DESIGN THEREON WITHOUT PERMISSION OF THE ARCHITECT WILL BE SUBJECT TO LEGAL ACTION.

consultants



project name  
**USC School of Medicine  
Building 4 Animal Care Renovations  
State Project # H27-2152**

A/E project number  
**14015.01**

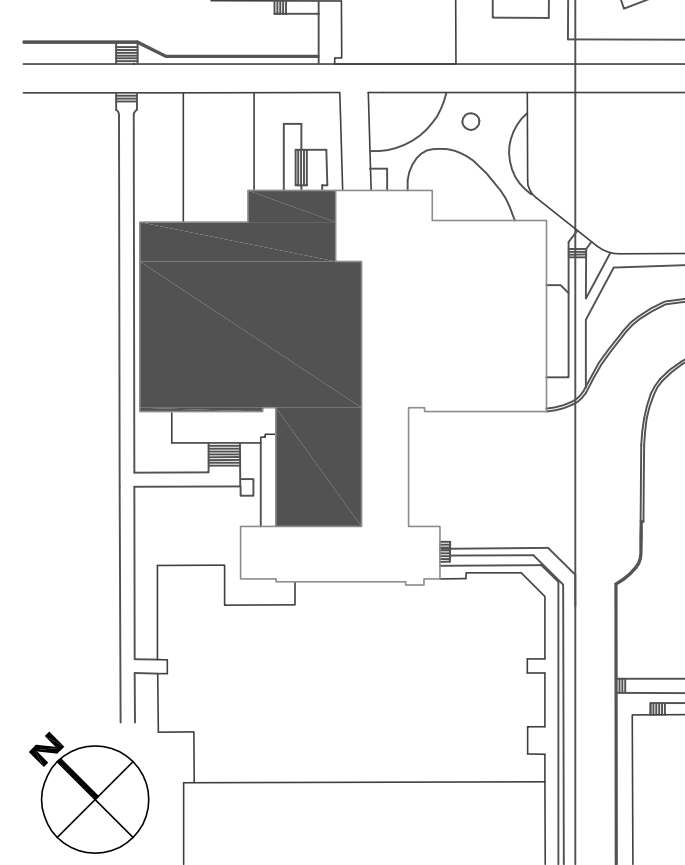
seals/signature

ISSUED FOR CONSTRUCTION

JUNE 30, 2014

number	item	date
1	ADDENDUM NO. 2	6/07/14

key plan



sheet title

**PARTIAL BASEMENT  
DEMOLITION PLAN -  
ALTERNATE #1**

sheet number

**E1.0A**

drawn by TLK  
checked by JBF





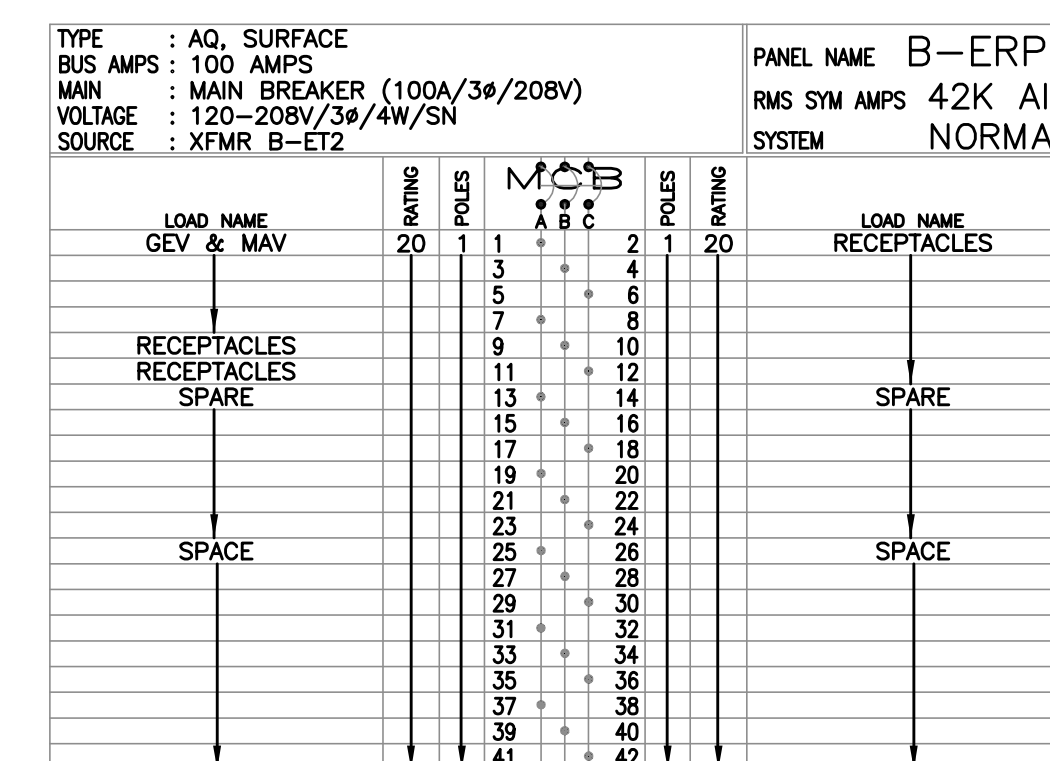
ALL RIGHTS RESERVED. THIS DRAWING AND THE DESIGN SHOWN THEREON ARE COPYRIGHTED AS PRESCRIBED BY THE LAWS OF THE UNITED STATES AND ARE THE PROPERTY OF GWK ASSOCIATES ARCHITECTURAL DIVISION. ANYONE DUPLICATING, REPRODUCING OR CAUSING TO BE REPRODUCED THE WHOLE OR PART OF THESE DRAWINGS OR THE DESIGN THEREON WITHOUT PERMISSION OF THE ARCHITECT WILL BE SUBJECT TO LEGAL ACTION.



project name  
USC School of Medicine  
Building 4 Animal Care Renovations  
State Project # H27-Z152

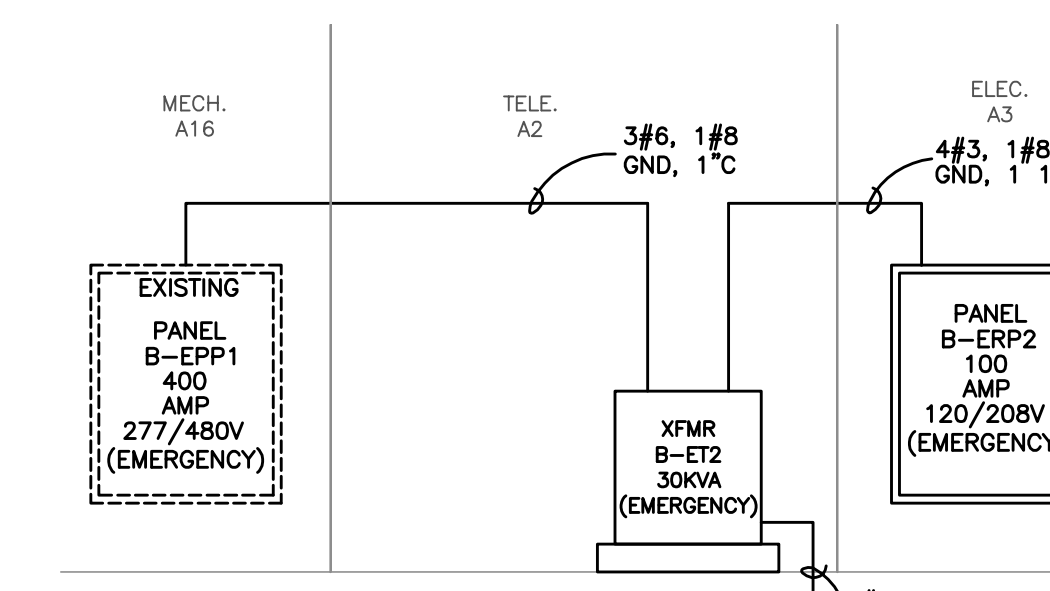
A/E project num

seals/signature

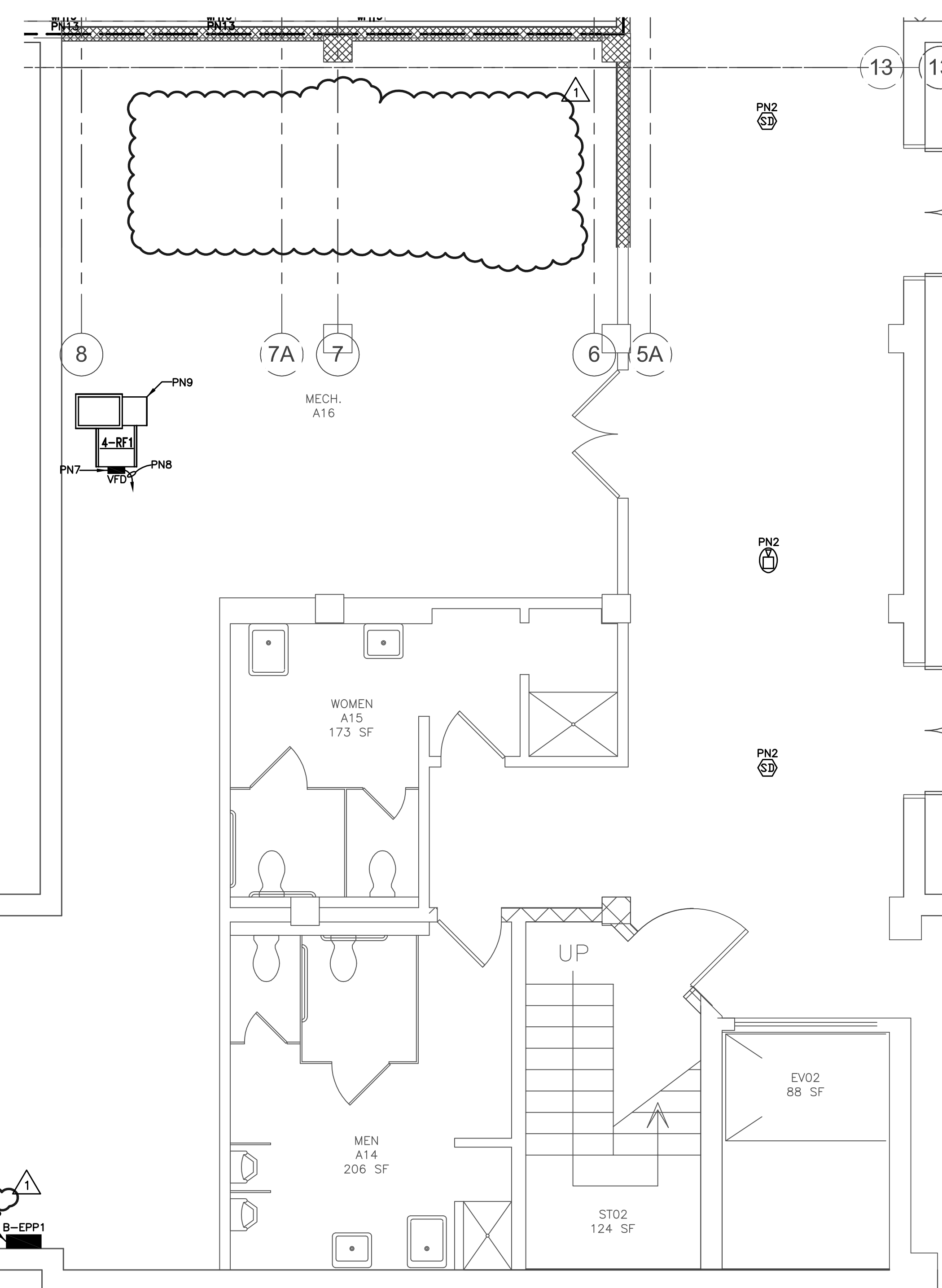


PANEL B-ERP2

- NORMAL - 120/208 VOLTS  
SOURCE: XFMR B-ET2



POWER RISER DIAGRAM  
NTS



**GENERAL NOTES (GN):**

GN1. FOR ALL EXISTING CIRCUITS FROM DEMOLITION PROVIDE ALL REQUIRED HANGERS, FASTENERS, AND FITTINGS AS REQUIRED TO PROPERLY SUPPORT ALL EXISTING ELECTRICAL CIRCUITS IN SPACE.

GN2. INSTALL BLANK COVERS MISSING ON EXISTING JUNCTION BOXES.

GN3. EC SHALL EXTEND OR RELOCATE ALL LIGHTING AND RECEPTACLE CIRCUITS AS REQUIRED FOR NEW HVAC DUCTWORK. COORDINATE WITH MC FOR ALL CONFLICT AREAS.

## POWER NOTES (PN)

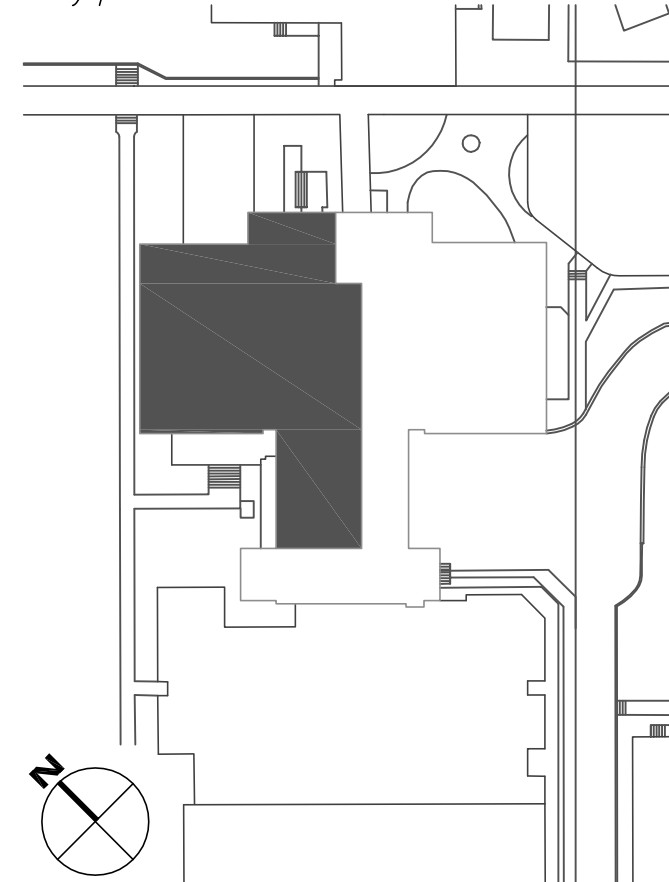
- PN1. INSTALL A NEW RECEPTACLE IN EXISTING BACKBOX AND RECONNECT TO EXISTING RECEPTACLE CIRCUIT. INSTALL A STAINLESS STEEL RECEPTACLE COVER PLATE OVER THE RECEPTACLE.
- PN2. RELOCATED EXISTING FIRE ALARM DEVICE FROM DEMOLITION. CONNECT TO EXISTING FIRE ALARM CIRCUIT FROM DEMOLITION. EXTEND EXISTING FIRE ALARM CIRCUIT AS REQUIRED TO NEW LOCATION. COORDINATE.
- PN3. INSTALL A NEW DATA FACEPLATE OVER EXISTING DATA BACKBOX.
- PN4. REMOVE EXISTING 1" DIA. GROUTED ANCHOR BOLT AND CEILING GROUT.
- PN5. MC SHALL FURNISH AND INSTALL, SEE POWER RISER DIAGRAM THIS SHEET FOR EQUIPMENT AND FEEDER SIZES, ANCONA/354/480V/3P BREAKER IN EXISTING CONDUIT. SEE 28 FOR CONDUIT SIZES AND 29 FOR NEW HVAC UNIT 4#-F1.
- PN7. MC SHALL FURNISH AND INSTALL VFD. TO EC. TO WIRE.
- PN8. EXISTING FEEDER FROM DEMOLITION. CONNECT TO NEW VFD AND HVAC UNIT.
- PN9. MC SHALL FURNISH AND INSTALL HVAC UNIT MOTOR. EC TO WIRE.
- COORDINATE.
- PN10. INSTALL A NEW RECEPTACLE IN EXISTING BACKBOX.
- PN11. EC SHALL RE-CONNECT TO EXISTING SECURITY CAMERA CIRCUIT FROM DEMOLITION. EXTEND EXISTING SECURITY CAMERA CIRCUIT AS REQUIRED TO RELOCATION.
- PN12. REMOVE RECEPTACLE 8" BELOW CEILING GROUT.

issued for  
**ISSUED FOR CONSTRUCTION**

date  
JUNE 30, 2014

[illegible]

key plan



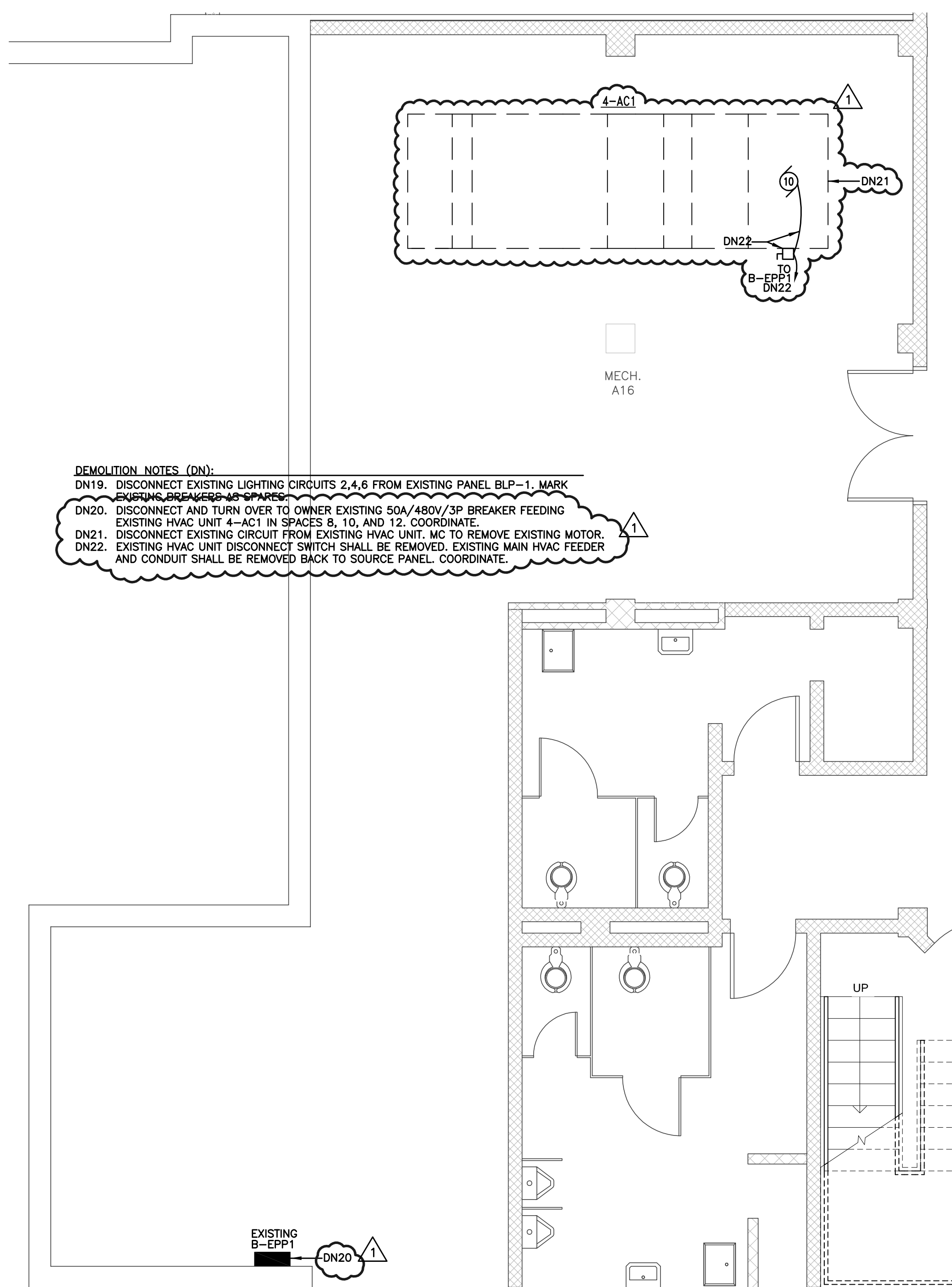
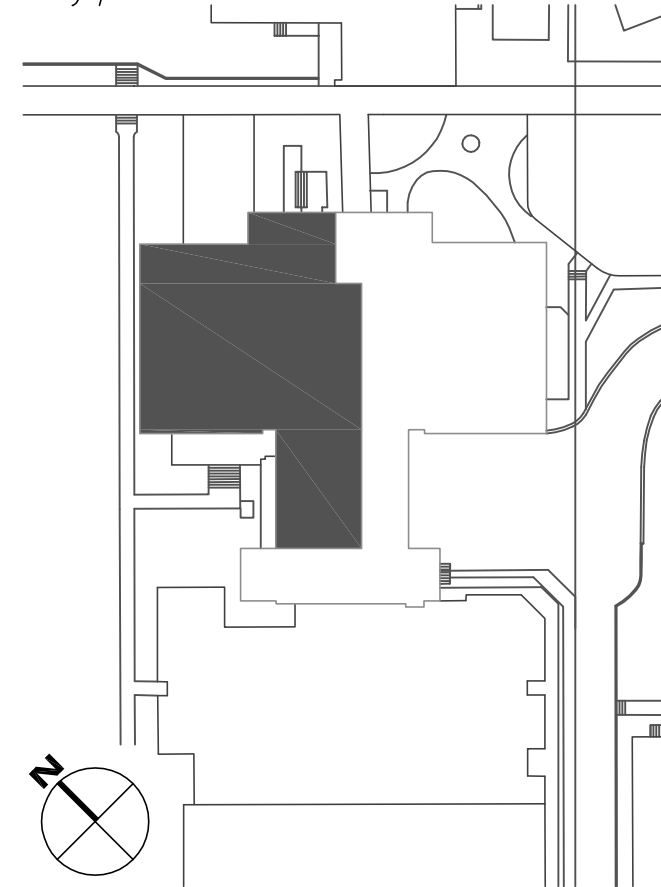
sheet title  
**PARTIAL BASEMENT  
POWER PLAN -  
ALTERNATE #1**

sheet number

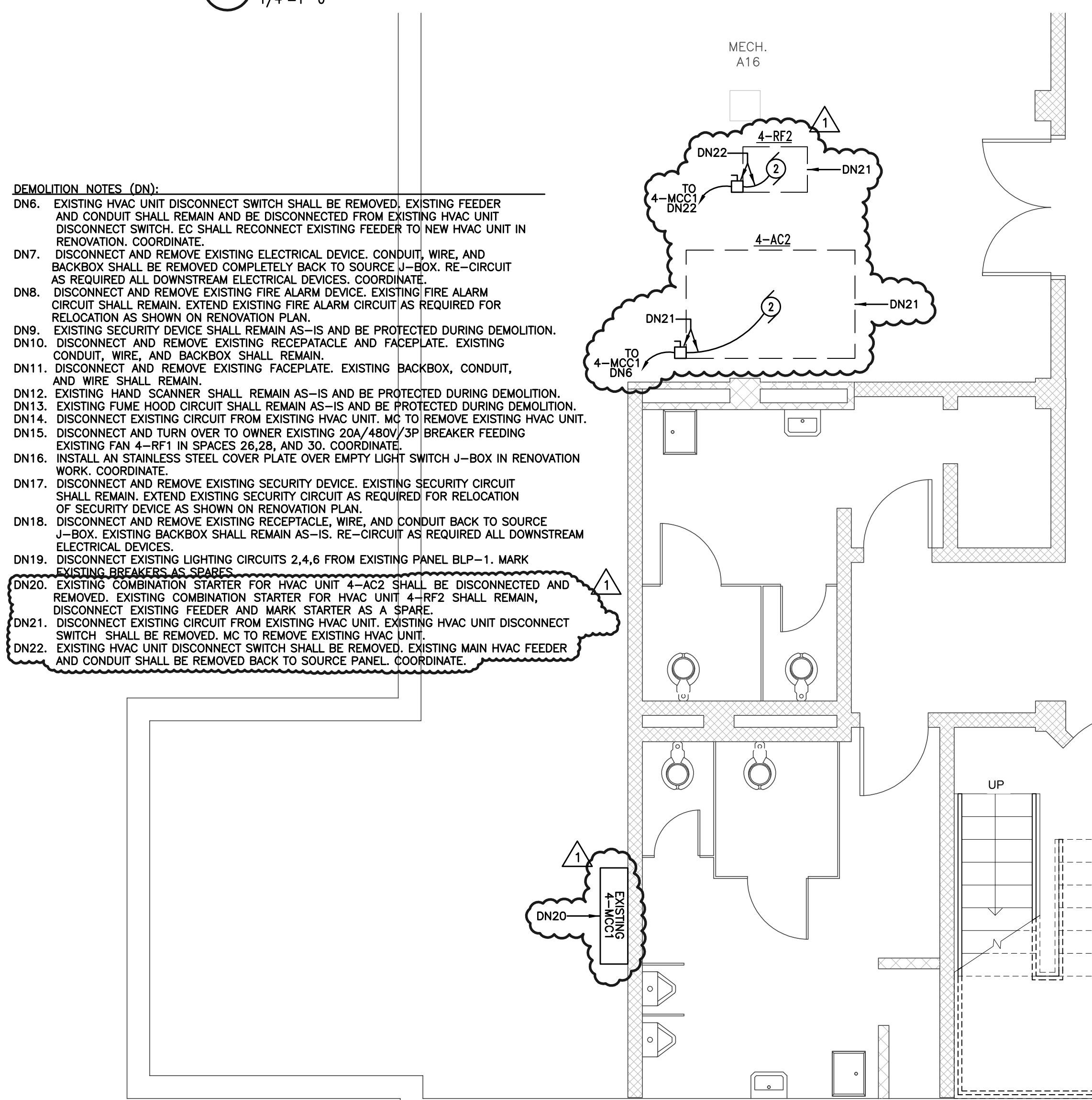
### E3.0A

*drawn by* TLK  
*checked by* JBF

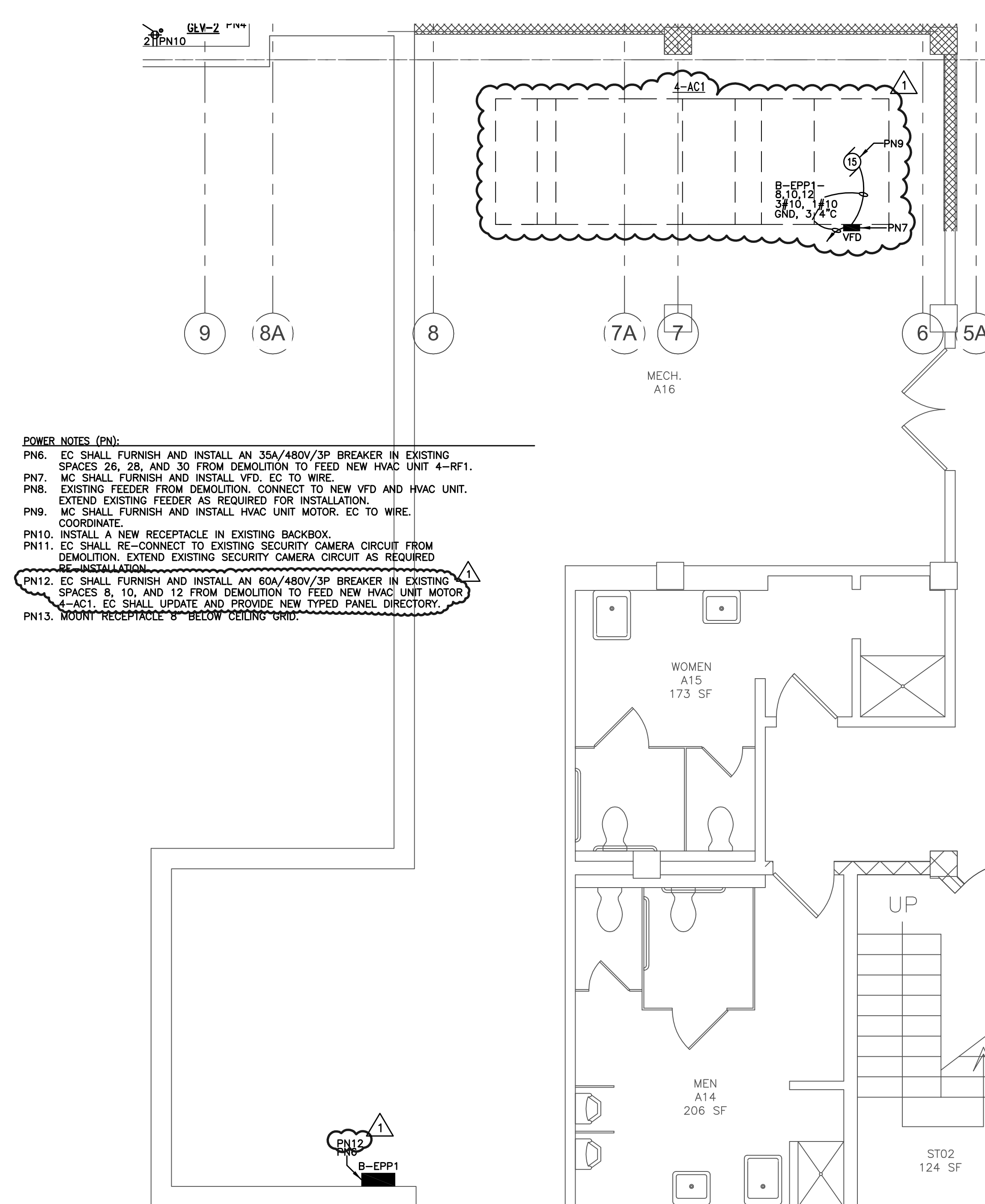
number	item	date
1	ADDENDUM NO. 2	8/07/14



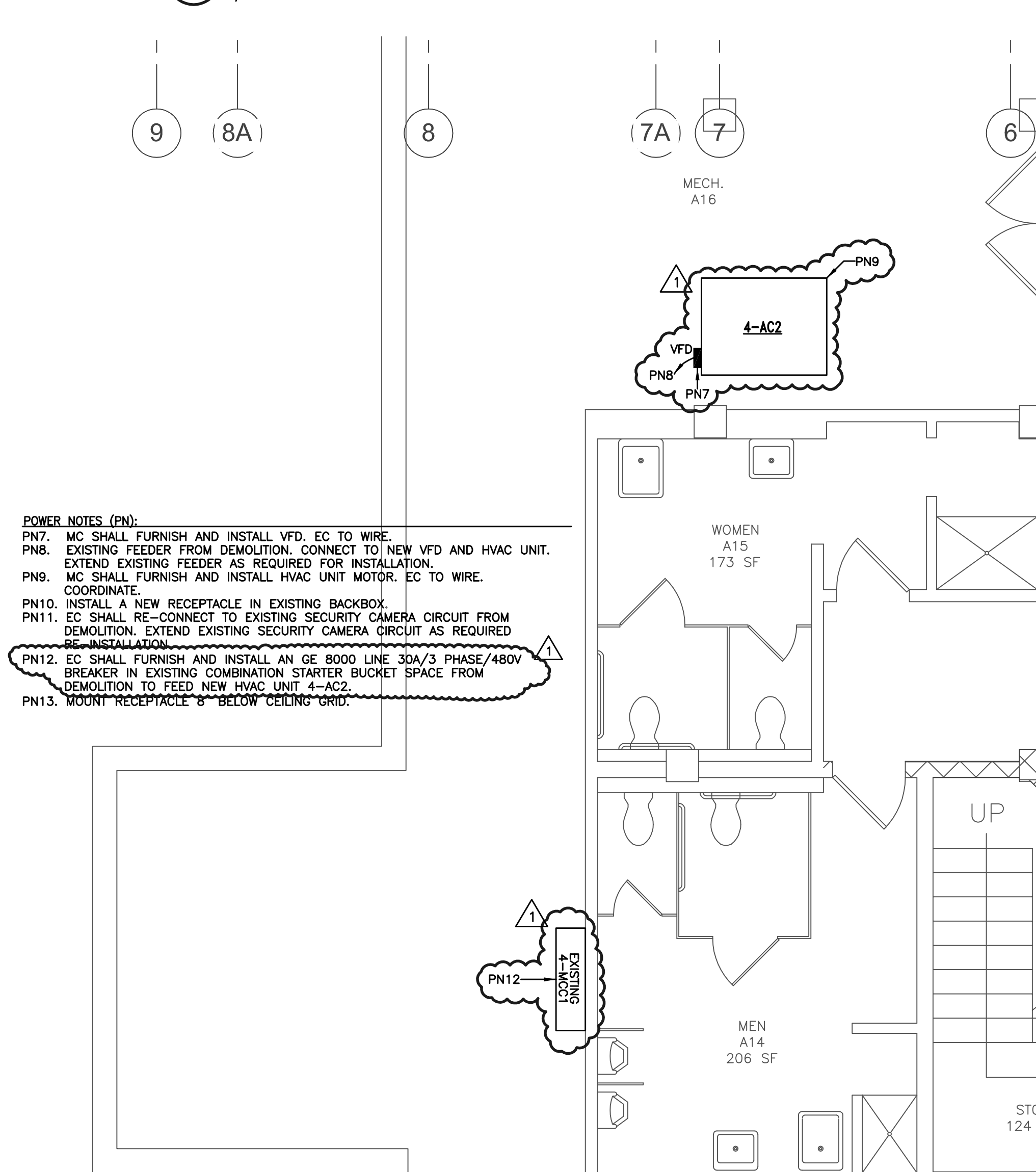
**1 PARTIAL BASEMENT DEMOLITION PLAN - ALTERNATE #2**  
1/4"=1'-0"



**3 PARTIAL BASEMENT DEMOLITION PLAN - ALTERNATE #3**  
1/4"=1'-0"



**2 PARTIAL BASEMENT POWER PLAN - ALTERNATE #2**  
1/4"=1'-0"



**4 PARTIAL BASEMENT POWER PLAN - ALTERNATE #3**  
1/4"=1'-0"