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ADDENDUM NO. 1

To the Drawings and Project Manual dated 19 March 2018

for

MIDWESTERN STATE UNIVERSITY
MOFFETT LIBRARY RENOVATION
PHASE I

3410 Taft Boulevard Wichita Falls, Texas 76308

Addendum Date: 2 April 2018

NOTICE TO PROPOSERS:

This addendum is hereby made part of the Project Specifications and Drawings dated March 19, 2018.

The Project Specifications and Drawings shall be supplemented or amended as specified herein.

This Addendum contains changes to the requirement of the Project Specifications. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of a paragraph of the Project Specifications, the remainder of the paragraph affected shall remain in force. Added information is shown as Bold, deleted information is shown as strikethrough.

This Addendum contains changes to the requirement of the Drawings. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of any drawing, the remainder of the drawing affected shall remain in force. Added, deleted or revised information is shown as "clouded".

The conditions and terms of the basic Contract Documents shall govern work unless otherwise described in this Addendum. Whenever the conditions of work, and the quality or quantity of materials, or workmanship are not fully described in this Addendum, the conditions of work included in the basic Contract Documents for similar items of work shall apply to the work described in this Addendum.

If no similar items of work are included in the basic Contract Document, the best quality of material and workmanship shall apply and all work shall be subject to the written acceptance of the Architect.

I. REVISIONS TO PROJECT MANUAL/SPECIFICATIONS

A. SPECIFICATION SECTION 00100 – NOTICE TO SUB-CONTRACTORS AND MATERIAL SUPPLIERS and SECTION 00200 – INSTRUCTIONS TO PROPOSERS

Item: Page **00100-1** and **00200-1**.

Description:

1. DELETE: The Bid Date/Time of 2:00 p.m. on Tuesday, April 17, 2018. ADD: The Bid Date/Time of 2:00 p.m. on **Tuesday**, **April 24**, **2018**.

2. As clarification, a Bid Bond will only be required on Bids over $100,000.

Item: Page **00200-1**.

Description:

1. As clarification, the cost for a Performance and/or Payment Bond shall not be included in the Bid associated with a particular Bid Package. The cost for a Performance and/or Payment Bond shall be indicated on the **PROPOSAL FORM**, Section **00400**, page **00400-2**. As indicated in this Section **00200**, Payment Bonds are only required on Bids over $25,000 and Performance Bonds required for Bids over $100,000.

B. SPECIFICATION SECTION 01100 – SUMMARY

Item: To **Part 1.3**, **PROJECT INFORMATION** on page **01100-1**.

Description:

1. ADD: The "**Phase I MSU Moffett Library Project Schedule**", Chart and Tabular Form, attached in this Addendum. In general, this Chart illustrates that the work begins on May 14, 2018 with Substantial Completion being achieved on the Toilet and MEP Renovations no later than August 17, 2018 and on the New Elevator Tower no later than November 31, 2018.

Item: To **Bid Package 8** (Structural Steel – Materials Only) under **Part 2.1**(**B**) on pages **011000-7** & **8**.

Description:

1. ADD: The Sump Pump Grate & Frame, Ladder, and Steel Sill Angles associated with the New Elevator Tower shall be included in this Bid Package. Coordinate the specific requirements of each item with the Hydraulic Elevator Manufacturer – refer to Section **142400**, **HYDRAULIC ELEVATORS** for more information.

Item: To **Bid Package 18** (Floor Covering) under **Part 2.1**(**B**) on page **011000-9**.

Description:

1. ADD: Under (**18**)(**b**) as clarification, this Bid Package shall include the removal of the existing ACM floor tile by the Resilient Floor Covering Institute (RFCI) Recommended Work Practices.

2. ADD: If a mud bed associated with existing ceramic tile that is scheduled for demolition and removal is present, provide a separate cost from the Bid Package for its removal.

C. SPECIFICATION SECTION 102113 – TOILET PARTITIONS

Item: To **Part 2.2**, **PRODUCTS** on page **102113-3**.

Description:

1. ADD: Under (**G**)(**7**), each door shall also have the following hardware: door pull and coat hook. Pulls shall be provided on both side of the door at handicapped accessible units. Provide rubber-tipped door bumpers on out-swinging doors.

2. DELETE: Under (**G**)(**7**)(**c**), the indication of "Stealth Integral Hinge". ADD: The hinges on the toilet partition doors shall be a continuous self-closing gravity type hinge, full height of the door.

3. DELETE: Under (**G**)(**7**)(**d**)(**2**), the indication of "Angle Brackets". ADD: Continuous U-Channels shall be provided for mounting panel-to-walls and stiles-to-walls, full height of the panels.

D. SPECIFICATION SECTION 024119 – SELECTIVE STRUCTURE DEMOLITION

Item: To **Part 3.4**, **SELECTIVE DEMOLITION, GENERAL** on page **024119-6**.

Description:

1. ADD: Under (**A**)(**9**), the Construction Manager-at-Risk (CM@R) will have trash chutes and bins available for the removal and disposal of demolished items and materials.

E. SPECIFICATION SECTIONS 01100 – SUMMARY and **051200** – **STRUCTURAL STEEL**

Item: To **Bid Package 8** (Structural Steel – Materials Only) under **Part 2.1**(**B**) on pages **01100-7** & **8** and **Part 1.1 – SUMMARY** on page **051200-1**.

Description:

1. ADD: The following Steel Escalation Clause: The successful bidders required to submit steel/metals shop drawings shall submit them two weeks from when their contract is executed (i.e., signed and implemented). The architect/engineer will review them within two weeks of the submission date. Failure to meet submission schedule would negate the following Price Escalation clause. Subs shall submit an escalation percentage tied to a fixed market indicator such as the National Scrap Steel Price for such situations where the approval time exceeds two weeks. It should be noted Owner will pay for on-site stored materials where proper documentation such as invoices is provided.

Item: To **Part 1.3 – QUALITY ASSURANCE** on page **051200-2**.

Description:

1. ADD: The State of Texas has passed a statute, Senate Bill #1289, that requires State Agencies to purchase iron and steel made in the United States for certain governmental entity projects. This project falls under this statute. The Specifications calling for steel to be used in this project construction will fall under this statute. A "pdf" file of this Bill available for download from the Texas Legislature Website at http://www.capitol.state.tx.us/tlodocs/85R/billtext/pdf/SB01289F.pdf#navpanes=0.

F. SPECIFICATION SECTION 087100 – DOOR HARDWARE

Item: To **Part 3.7 – DOOR HARDWARE SCHEDULE** on page **087100-12**.

Description:

1. DELETE: Under Hardware Set "**HW-4**", Doors **#1CUST1**, **#1CUST2**, **#2CUST5 (2 DOORS)**, **#3CUST1**, and **#3CUST6**.

2. ADD: Under Hardware Set "**HW-3**", Doors **#1CUST1**, **#1CUST2**, **#2CUST5**, **#2CUST6**, **#3CUST1**, and **#3CUST6**.

G. SPECIFICATION SECTION 087100 – FIRE PROTECTION SPECIALTIES

Item: To the Section.

Description:

1. ADD: As clarification, there will be no Fire Extinguishers and Cabinets included in Phase 1. Extinguishers and Cabinets will be specified and provided in Phase II and included in a separate Set of Construction Documents to be issued at a later date.

H. SPECIFICATION SECTION 102600 – CORNER GUARDS

Item: To the Section.

Description:

1. ADD: As clarification, Corner Guards shall be provided at locations as indicated on the Floors on Sheets "**A-101**", "**A-102**", and "**A-103**". Refer to Item "**II(D)**" below for more information.

II. REVISIONS TO DRAWINGS

A. MECHANICAL DRAWINGS - Sheets "**M-001**", "**M-101**", "**M-201**", "**M-202**", and "**M-203**".

Replace the Drawings the revised Sheets attached in this Addendum. Additions and revisions have been made to the Mechanical Plans on all Floors, mainly relating to IT Closets.

B. ELECTRICAL DRAWINGS - Sheets "**E-101**", "**E-102**", "**E-103**", "**E-105**", and "**ED-101**".

Replace the Drawings the revised Sheets attached in this Addendum. Additions and revisions have been made to the Electrical Plans on all Floors and Electrical Demolition Plan on the 1st Floor, mainly relating to IT Closets. Also, revisions have been made to the "**POWER SYMBOL LEGEND**" and the "**ELECTRICAL DEMO FIRST FLOOR**".

C. PLUMBING DRAWINGS - Sheets "**P-001**", "**P-101**", "**P-102**", "**P-103**", "**DP-101**", "**DP-102**", and "**DP-103**".

Replace the Drawings the revised Sheets attached in this Addendum. Additions and revisions have been made to the Plumbing Plans and Plumbing Demolition Plans on all Floors, mainly relating to Electric Water Cooler Units and IT Closets. Also, revisions have been made to the "**PLUMBING FIXTURE SCHEDULE**" and the "**ELECTRICAL DEMO FIRST FLOOR**".

D. ARCHITECTURAL DRAWINGS - Sheets "**D-101**", "**D-102**", "**D-103**", "**A-101**", "**A-102**", and "**A-103**".

Replace the Drawings with the revised Sheets attached in this Addendum. Existing Electric Water Cooler (EWC) units are being removed with new bi-level EWC units being installed in specified locations. In addition, existing Doors/Frames **#1CUST1**, **#1CUST2**, **#2CUST5**, **#2CUST6**, **#3CUST1**, and **#3CUST6** are being removed and new Door/Frames are being provided. Also, additional existing columns that are

located in the spaces have been depicted in the Plans. Locations of wall corner guards have been added. Refer to Items "II(**C)**" above and "II(**F)**" & "II(**G)**" below for more information.

E. ARCHITECTURAL DRAWINGS - Sheets "**A-201**", "**A-202**", "**A-203**", and "**I-001**".

Replace the Drawings with the revised Sheets attached in this Addendum. The "Reflected Ceiling Plans" and "**ROOM FINISH SCHEDULE**" have been revised to clarify any conflicts in ceiling finishes and to show the added IT Closet areas ("**IT CLOSET 1COMM2**" and "**IT CLOSET 2COMM2**"). As clarification to the "**FINISH SCHEDULE**" on Sheet "**I-001**", in "**IT CLOSET 1COMM1**", "**IT CLOSET 1COMM2**", "**IT CLOSET 2COMM1**", "**IT CLOSET 2COMM2**", and "**IT CLOSET 3COMM1**",

F. ARCHITECTURAL DRAWINGS - Sheet "**A-731**".

Replace the Drawings with the revised Sheet attached in this Addendum. The "**RESTROOM PLANS**" and "**RESTROOM ELEVATIONS**" have been revised to depict additional existing columns that are located in the spaces. In addition, the location of new Toilet Accessories (i.e. "Changing Station") have been adjusted to ensure required clear floor space dimensions at doors utilized by handicapped users. Also, new EWC units have been added to the Plans.

G. ARCHITECTURAL DRAWINGS - Sheet "**A-851**".

Replace the Drawings with the revised Sheet attached in this Addendum. The "**DOOR SCHEDULE**" has been revised.

H. STRUCTURAL DRAWINGS - Sheet "**S-401**", Detail "**07/S-401**".

Replace the Detail with the revised Detail attached in this Addendum. The revised Detail clarifies the dimensions of the continuous steel bent plate.

I. ARCHITECTURAL DRAWINGS - Sheet "**A-792**" and **STRUCTURAL DRAWINGS** - Sheet "**S-401**", Details "**07/S-401**" and "**08/S401**".

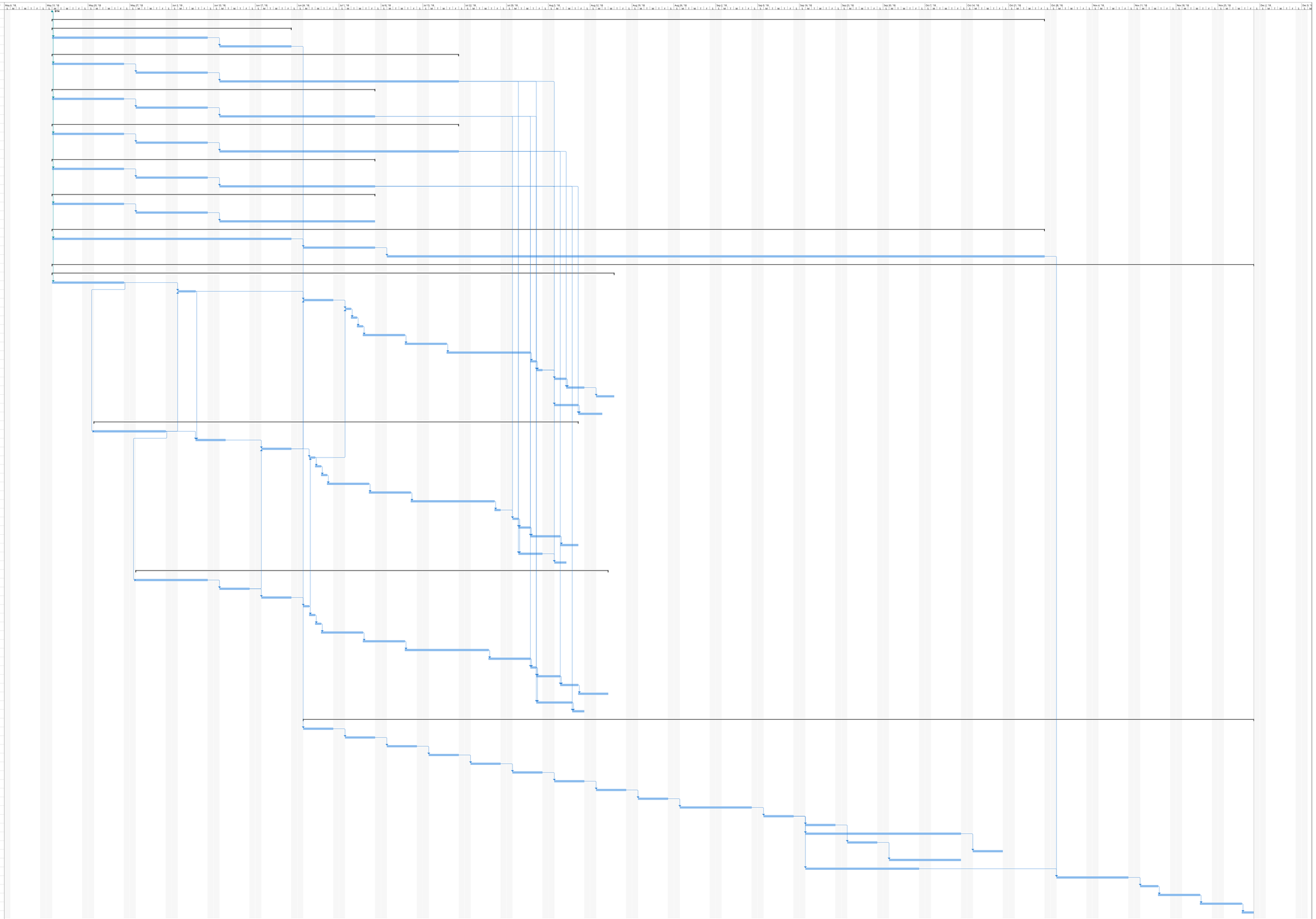
Replace Drawing with the revised Sheet "**A-792**" attached in this Addendum. As clarification on each floor, additional existing masonry is being removed above the new opening associated with the new Elevator entrance. The new steel angle lintel will be provided at some locations as per the revised Drawing. Adjustments to details "**07/S-401**" and "**08/S401**" will need to be made according to this revised Drawing.

J. STRUCTURAL DRAWINGS - Sheets "**S-101**", "**S-301**", and "**S-401**".

Replace the Drawings with the revised Sheets attached in this Addendum. There were areas on these Sheets in which the text was not clear and illegible.

END OF ADDENDUM NO. 1

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1	Notice to Proceed	0 days	Mon 5/14/18	Mon 5/14/18		
2	**Material Procurement**	**120 da...**	**Mon 5/14/18**	**Fri 10/26/18**		
3	**Proctors**	**30 days**	**Mon 5/14/18**	**Fri 6/22/18**		
4	Procure Sample	20 days	Mon 5/14/18	Fri 6/8/18	1	
5	Test Sample	10 days	Mon 6/11/18	Fri 6/22/18	4	
6	**Countertops**	**50 days**	**Mon 5/14/18**	**Fri 7/20/18**		
7	Procure Submittal	10 days	Mon 5/14/18	Fri 5/25/18	1	
8	Review Submittal	10 days	Mon 5/28/18	Fri 6/8/18	7	
9	Lead Time	30 days	Mon 6/11/18	Fri 7/20/18	8	
10	**Ceramic Tile**	**40 days**	**Mon 5/14/18**	**Fri 7/6/18**		
11	Procure Submittal	10 days	Mon 5/14/18	Fri 5/25/18	1	
12	Review Submittal	10 days	Mon 5/28/18	Fri 6/8/18	11	
13	Lead Time	20 days	Mon 6/11/18	Fri 7/6/18	12	
14	**Toilet Partitions**	**50 days**	**Mon 5/14/18**	**Fri 7/20/18**		
15	Procure Submittal	10 days	Mon 5/14/18	Fri 5/25/18	1	
16	Review Submittal	10 days	Mon 5/28/18	Fri 6/8/18	15	
17	Lead Time	30 days	Mon 6/11/18	Fri 7/20/18	16	
18	**Plumbing Fixutres**	**40 days**	**Mon 5/14/18**	**Fri 7/6/18**		
19	Procure Submittal	10 days	Mon 5/14/18	Fri 5/25/18	1	
20	Review Submittal	10 days	Mon 5/28/18	Fri 6/8/18	19	
21	Lead Time	20 days	Mon 6/11/18	Fri 7/6/18	20	
22	**Light Fixtures**	**40 days**	**Mon 5/14/18**	**Fri 7/6/18**		
23	Procure Submittal	10 days	Mon 5/14/18	Fri 5/25/18	1	
24	Review Submittal	10 days	Mon 5/28/18	Fri 6/8/18	23	
25	Lead Time	20 days	Mon 6/11/18	Fri 7/6/18	24	
26	**Elevator**	**120 da...**	**Mon 5/14/18**	**Fri 10/26/18**		
27	Procure Submittal	30 days	Mon 5/14/18	Fri 6/22/18	1	
28	Review Submittal	10 days	Mon 6/25/18	Fri 7/6/18	27	
29	Lead Time	80 days?	Mon 7/9/18	Fri 10/26/18	28	
30	**Phase I**	**145 da...**	**Mon 5/14/18**	**Fri 11/30/18**		
31	**3rd Floor**	**68 days**	**Mon 5/14/18**	**Wed 8/15/18**		
32	Demo	10 days	Mon 5/14/18	Fri 5/25/18	1	
33	Floor Penetrations	3 days	Mon 6/4/18	Wed 6/6/18	32,49	
34	Plumbing	5 days	Mon 6/25/18	Fri 6/29/18	33,51	
35	Metal Studs	1 day	Mon 7/2/18	Mon 7/2/18	34,52	
36	MEP Wall Rough In	1 day	Tue 7/3/18	Tue 7/3/18	35	
37	Sheetrock	1 day	Wed 7/4/18	Wed 7/4/18	36	
38	TBT Paint	5 days	Thu 7/5/18	Wed 7/11/18	37	
39	Above Ceiling MEP	5 days	Thu 7/12/18	Wed 7/18/18	38	
40	Ceramic Tile	10 days	Thu 7/19/18	Wed 8/1/18	39	
41	Ceiling Grid	1 day	Thu 8/2/18	Thu 8/2/18	40	
42	Ceiling Tile	1 day	Fri 8/3/18	Fri 8/3/18	41,13	
43	Toilet/Urinals	2 days	Mon 8/6/18	Tue 8/7/18	42,21	
44	Toilet Partitions	3 days	Wed 8/8/18	Fri 8/10/18	43,17	
45	Doors & Accessories	3 days	Mon 8/13/18	Wed 8/15/18	44	
46	Millwork	4 days	Mon 8/6/18	Thu 8/9/18	42,9	
47	Sinks	2 days	Fri 8/10/18	Mon 8/13/18	46,21	
48	**2nd Floor**	**59 days**	**Mon 5/21/18**	**Thu 8/9/18**		
49	Demo	10 days	Mon 5/21/18	Fri 6/1/18	32FS-5 days	
50	Floor Penetrations	3 days	Thu 6/7/18	Mon 6/11/18	49,33	
51	Plumbing	5 days	Mon 6/18/18	Fri 6/22/18	50,67	
52	Metal Studs	1 day	Tue 6/26/18	Tue 6/26/18	51,69	
53	MEP Wall Rough In	1 day	Wed 6/27/18	Wed 6/27/18	52	
54	Sheetrock	1 day	Thu 6/28/18	Thu 6/28/18	53	
55	TBT Paint	5 days	Fri 6/29/18	Thu 7/5/18	54	
56	Above Ceiling MEP	5 days	Fri 7/6/18	Thu 7/12/18	55	
57	Ceramic Tile	10 days	Fri 7/13/18	Thu 7/26/18	56	
58	Ceiling Grid	1 day	Fri 7/27/18	Fri 7/27/18	57	
59	Ceiling Tile	1 day	Mon 7/30/18	Mon 7/30/18	58,13	
60	Toilet/Urinals	2 days	Tue 7/31/18	Wed 8/1/18	59,21	
61	Toilet Partitions	3 days	Thu 8/2/18	Mon 8/6/18	60,17	
62	Doors & Accessories	3 days	Tue 8/7/18	Thu 8/9/18	61	
63	Millwork	4 days	Tue 7/31/18	Fri 8/3/18	59,9	
64	Sinks	2 days	Mon 8/6/18	Tue 8/7/18	63,21	
65	**1st Floor**	**57 days**	**Mon 5/28/18**	**Tue 8/14/18**		
66	Demo	10 days	Mon 5/28/18	Fri 6/8/18	49FS-5 days	
67	Plumbing	5 days	Mon 6/11/18	Fri 6/15/18	66	
68	Floor Patch	5 days	Mon 6/18/18	Fri 6/22/18	67	
69	Metal Studs	1 day	Mon 6/25/18	Mon 6/25/18	68	
70	MEP Wall Rough In	1 day	Tue 6/26/18	Tue 6/26/18	69	
71	Sheetrock	1 day	Wed 6/27/18	Wed 6/27/18	70	
72	TBT Paint	5 days	Thu 6/28/18	Wed 7/4/18	71	
73	Above Ceiling MEP	5 days	Thu 7/5/18	Wed 7/11/18	72	
74	Ceramic Tile	10 days	Thu 7/12/18	Wed 7/25/18	73	
75	Ceiling Grid	5 days	Thu 7/26/18	Wed 8/1/18	74	
76	Ceiling Tile	1 day	Thu 8/2/18	Thu 8/2/18	75,13	
77	Toilet/Urinals	2 days	Fri 8/3/18	Mon 8/6/18	76,21	
78	Toilet Partitions	3 days	Tue 8/7/18	Thu 8/9/18	77,17	
79	Doors & Accessories	3 days	Fri 8/10/18	Tue 8/14/18	78	
80	Millwork	4 days	Fri 8/3/18	Wed 8/8/18	76,9	
81	Sinks	2 days	Thu 8/9/18	Fri 8/10/18	80,21	
82	**Elevator**	**115 da...**	**Mon 6/25/18**	**Fri 11/30/18**		
83	Layout	5 days	Mon 6/25/18	Fri 6/29/18	5	
84	Excavate	5 days	Mon 7/2/18	Fri 7/6/18	83	
85	Import Fill	5 days	Mon 7/9/18	Fri 7/13/18	84	
86	Piers	5 days	Mon 7/16/18	Fri 7/20/18	85	
87	Concrete Beams	5 days	Mon 7/23/18	Fri 7/27/18	86	
88	Weatherproofing	5 days	Mon 7/30/18	Fri 8/3/18	87	
89	Concrete Floor	5 days	Mon 8/6/18	Fri 8/10/18	88	
90	Clay Tile Roof Demo	5 days	Mon 8/13/18	Fri 8/17/18	89	
91	Roof Deck Cricket Construction	5 days	Mon 8/20/18	Fri 8/24/18	90	
92	CMU Walls	10 days	Mon 8/27/18	Fri 9/7/18	91	
93	Structural Steel Roof Deck	5 days	Mon 9/10/18	Fri 9/14/18	92	
94	TPO Roofing	5 days	Mon 9/17/18	Fri 9/21/18	93	
95	Brick Veneer	20 days	Mon 9/17/18	Fri 10/12/18	93	
96	Cast Stone	5 days	Mon 9/24/18	Fri 9/28/18	94	
97	EIFS	5 days	Mon 10/15/18	Fri 10/19/18	95	
98	Clay Tile Roof Install	10 days	Mon 10/1/18	Fri 10/12/18	96	
99	Prepare Wall Openings	15 days	Mon 9/17/18	Fri 10/5/18	93	
100	Install Elevator	10 days	Mon 10/29/18	Fri 11/9/18	29,99	
101	Drywall Patches	3 days	Mon 11/12/18	Wed 11/14/18	100	
102	TBT Paint	5 days	Thu 11/15/18	Wed 11/21/18	101	
103	Trim & Accessories	5 days	Thu 11/22/18	Wed 11/28/18	102	
104	Final Clean	2 days	Thu 11/29/18	Fri 11/30/18	103	



Project: Phase I MSU Moffet Library P
Date: Fri 4/6/18

Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Progress | Manual Progress

Phase I MSU Moffett Library Project Schedule 1.0 - Tabular

Task Name	Duration	Start	Finish	Notes
Notice to Proceed	0 days	Mon 5/14/18	Mon 5/14/18	
Material Procurement	**120 days**	**Mon 5/14/18**	**Fri 10/26/18**	
Proctors	**30 days**	**Mon 5/14/18**	**Fri 6/22/18**	
Procure Sample	20 days	Mon 5/14/18	Fri 6/8/18	
Test Sample	10 days	Mon 6/11/18	Fri 6/22/18	
Countertops	**50 days**	**Mon 5/14/18**	**Fri 7/20/18**	
Procure Submittal	10 days	Mon 5/14/18	Fri 5/25/18	
Review Submittal	10 days	Mon 5/28/18	Fri 6/8/18	
Lead Time	30 days	Mon 6/11/18	Fri 7/20/18	
Ceramic Tile	**40 days**	**Mon 5/14/18**	**Fri 7/6/18**	
Procure Submittal	10 days	Mon 5/14/18	Fri 5/25/18	
Review Submittal	10 days	Mon 5/28/18	Fri 6/8/18	
Lead Time	20 days	Mon 6/11/18	Fri 7/6/18	
Toilet Partitions	**50 days**	**Mon 5/14/18**	**Fri 7/20/18**	
Procure Submittal	10 days	Mon 5/14/18	Fri 5/25/18	
Review Submittal	10 days	Mon 5/28/18	Fri 6/8/18	
Lead Time	30 days	Mon 6/11/18	Fri 7/20/18	
Plumbing Fixutres	**40 days**	**Mon 5/14/18**	**Fri 7/6/18**	
Procure Submittal	10 days	Mon 5/14/18	Fri 5/25/18	
Review Submittal	10 days	Mon 5/28/18	Fri 6/8/18	
Lead Time	20 days	Mon 6/11/18	Fri 7/6/18	
Light Fixtures	**40 days**	**Mon 5/14/18**	**Fri 7/6/18**	
Procure Submittal	10 days	Mon 5/14/18	Fri 5/25/18	
Review Submittal	10 days	Mon 5/28/18	Fri 6/8/18	
Lead Time	20 days	Mon 6/11/18	Fri 7/6/18	
Elevator	**120 days**	**Mon 5/14/18**	**Fri 10/26/18**	
Procure Submittal	30 days	Mon 5/14/18	Fri 6/22/18	
Review Submittal	10 days	Mon 6/25/18	Fri 7/6/18	
Lead Time	80 days	Mon 7/9/18	Fri 10/26/18	
Phase I	**145 days**	**Mon 5/14/18**	**Fri 11/30/18**	
3rd Floor	**68 days**	**Mon 5/14/18**	**Wed 8/15/18**	
Demo	10 days	Mon 5/14/18	Fri 5/25/18	
Floor Penetrations	3 days	Mon 6/4/18	Wed 6/6/18	
Plumbing	5 days	Mon 6/25/18	Fri 6/29/18	
Metal Studs	1 day	Mon 7/2/18	Mon 7/2/18	
MEP Wall Rough In	1 day	Tue 7/3/18	Tue 7/3/18	
Sheetrock	1 day	Wed 7/4/18	Wed 7/4/18	
TBT Paint	5 days	Thu 7/5/18	Wed 7/11/18	
Above Ceiling MEP	5 days	Thu 7/12/18	Wed 7/18/18	
Ceramic Tile	10 days	Thu 7/19/18	Wed 8/1/18	
Ceiling Grid	1 day	Thu 8/2/18	Thu 8/2/18	
Ceiling Tile	1 day	Fri 8/3/18	Fri 8/3/18	
Toilet/Urinals	2 days	Mon 8/6/18	Tue 8/7/18	
Toilet Partitions	3 days	Wed 8/8/18	Fri 8/10/18	
Doors & Accessories	3 days	Mon 8/13/18	Wed 8/15/18	
Millwork	4 days	Mon 8/6/18	Thu 8/9/18	

Phase I MSU Moffett Library Project Schedule 1.0 - Tabular

Task Name	Duration	Start	Finish	Notes
Sinks	2 days	Fri 8/10/18	Mon 8/13/18	
2nd Floor	**59 days**	**Mon 5/21/18**	**Thu 8/9/18**	
Demo	10 days	Mon 5/21/18	Fri 6/1/18	
Floor Penetrations	3 days	Thu 6/7/18	Mon 6/11/18	
Plumbing	5 days	Mon 6/18/18	Fri 6/22/18	
Metal Studs	1 day	Tue 6/26/18	Tue 6/26/18	
MEP Wall Rough In	1 day	Wed 6/27/18	Wed 6/27/18	
Sheetrock	1 day	Thu 6/28/18	Thu 6/28/18	
TBT Paint	5 days	Fri 6/29/18	Thu 7/5/18	
Above Ceiling MEP	5 days	Fri 7/6/18	Thu 7/12/18	
Ceramic Tile	10 days	Fri 7/13/18	Thu 7/26/18	
Ceiling Grid	1 day	Fri 7/27/18	Fri 7/27/18	
Ceiling Tile	1 day	Mon 7/30/18	Mon 7/30/18	
Toilet/Urinals	2 days	Tue 7/31/18	Wed 8/1/18	
Toilet Partitions	3 days	Thu 8/2/18	Mon 8/6/18	
Doors & Accessories	3 days	Tue 8/7/18	Thu 8/9/18	
Millwork	4 days	Tue 7/31/18	Fri 8/3/18	
Sinks	2 days	Mon 8/6/18	Tue 8/7/18	
1st Floor	**57 days**	**Mon 5/28/18**	**Tue 8/14/18**	
Demo	10 days	Mon 5/28/18	Fri 6/8/18	
Plumbing	5 days	Mon 6/11/18	Fri 6/15/18	
Floor Patch	5 days	Mon 6/18/18	Fri 6/22/18	
Metal Studs	1 day	Mon 6/25/18	Mon 6/25/18	
MEP Wall Rough In	1 day	Tue 6/26/18	Tue 6/26/18	
Sheetrock	1 day	Wed 6/27/18	Wed 6/27/18	
TBT Paint	5 days	Thu 6/28/18	Wed 7/4/18	
Above Ceiling MEP	5 days	Thu 7/5/18	Wed 7/11/18	
Ceramic Tile	10 days	Thu 7/12/18	Wed 7/25/18	
Ceiling Grid	5 days	Thu 7/26/18	Wed 8/1/18	
Ceiling Tile	1 day	Thu 8/2/18	Thu 8/2/18	
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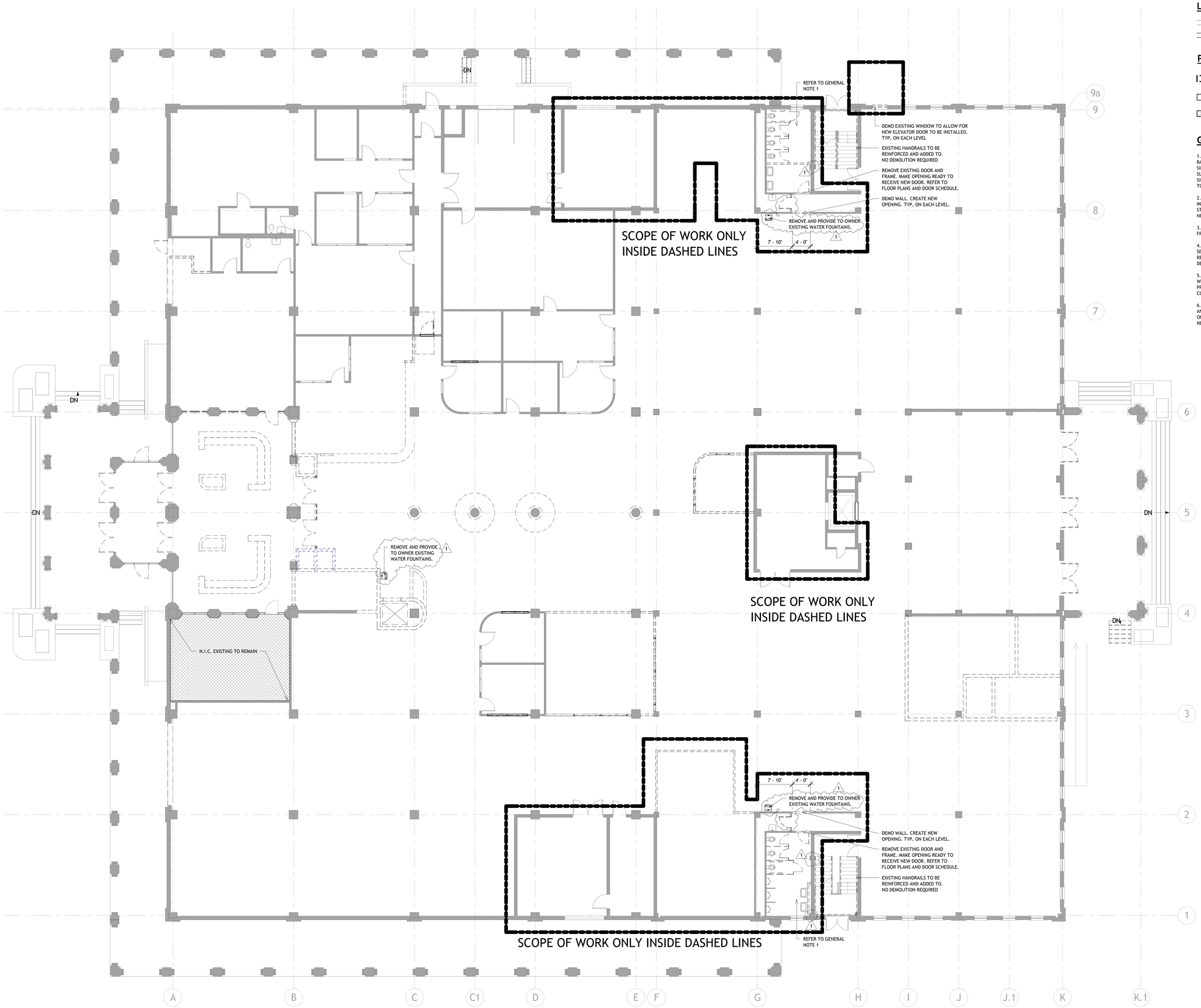
Toilet Partitions	3 days	Tue 8/7/18	Thu 8/9/18	
Doors & Accessories	3 days	Fri 8/10/18	Tue 8/14/18	
Millwork	4 days	Fri 8/3/18	Wed 8/8/18	
Sinks	2 days	Thu 8/9/18	Fri 8/10/18	
Elevator	**115 days**	**Mon 6/25/18**	**Fri 11/30/18**	
Layout	5 days	Mon 6/25/18	Fri 6/29/18	
Excavate	5 days	Mon 7/2/18	Fri 7/6/18	
Import Fill	5 days	Mon 7/9/18	Fri 7/13/18	
Piers	5 days	Mon 7/16/18	Fri 7/20/18	
Concrete Beams	5 days	Mon 7/23/18	Fri 7/27/18	
Weatherproofing	5 days	Mon 7/30/18	Fri 8/3/18	
Concrete Floor	5 days	Mon 8/6/18	Fri 8/10/18	
Clay Tile Roof Demo	5 days	Mon 8/13/18	Fri 8/17/18	
Roof Deck Cricket Construction	5 days	Mon 8/20/18	Fri 8/24/18	
CMU Walls	10 days	Mon 8/27/18	Fri 9/7/18	

Phase I MSU Moffett Library Project Schedule 1.0 - Tabular

Task Name	Duration	Start	Finish	Notes
Structural Steel Roof Deck	5 days	Mon 9/10/18	Fri 9/14/18	
TPO Roofing	5 days	Mon 9/17/18	Fri 9/21/18	
Brick Veneer	20 days	Mon 9/17/18	Fri 10/12/18	
Cast Stone	5 days	Mon 9/24/18	Fri 9/28/18	
EIFS	5 days	Mon 10/15/18	Fri 10/19/18	
Clay Tile Roof Install	10 days	Mon 10/1/18	Fri 10/12/18	
Prepare Wall Openings	15 days	Mon 9/17/18	Fri 10/5/18	
Install Elevator	10 days	Mon 10/29/18	Fri 11/9/18	
Drywall Patches	3 days	Mon 11/12/18	Wed 11/14/18	
TBT Paint	5 days	Thu 11/15/18	Wed 11/21/18	
Trim & Accessories	5 days	Thu 11/22/18	Wed 11/28/18	
Final Clean	2 days	Thu 11/29/18	Fri 11/30/18	



LEGEND

EXISTING TO DEMO

EXISTING TO REMAIN

PHASE LEGEND

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PHASE II - WORK TO BE COMPLETED IN 2019

NOT IN SCOPE

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5. INSTALL TEMPORARY DOORS, WINDOWS, AND WALLS, AS REQUIRED FOR PROTECTION OF THE PREMISES DURING THE DEMOLITION AND CONSTRUCTION OF THE PROJECT.

6. REMOVE WALL SYSTEMS OR PARTITION DOORS AND ALL ASSOCIATED STRUCTURES AS INDICATED ON PLANS. PREPARE BROKEN EDGES TO RECEIVE NEW PARTITION AND/OR FINISHES.

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PHASE I

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1	ADDENDUM 1	04.03.18

HMBA PROJECT NUMBER: 06113.00

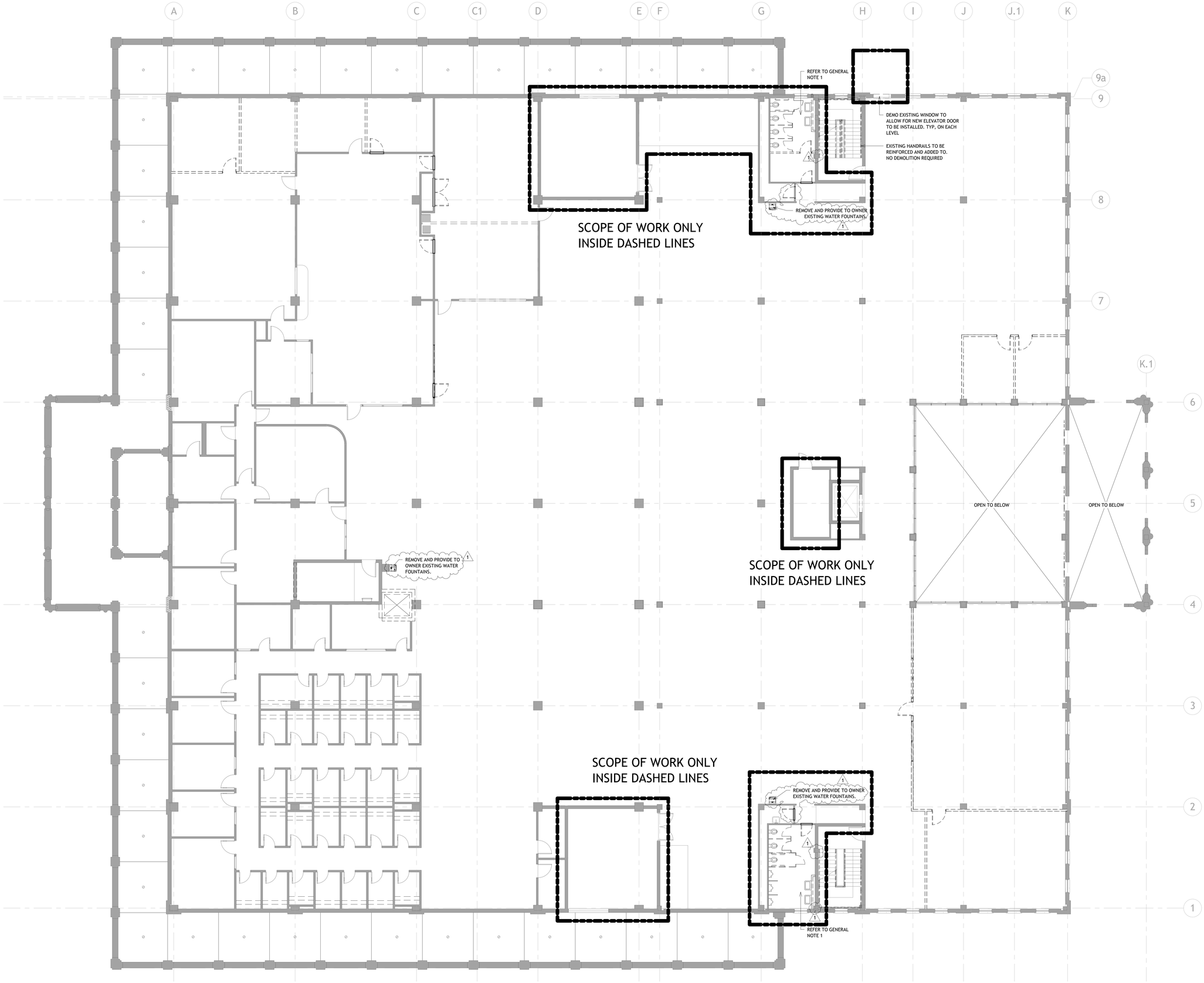
FIRST FLOOR DEMOLITION PLAN

D-101

4/10/2018 9:46:27 AM

1 FIRST FLOOR DEMOLITION PLAN

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



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1 SECOND FLOOR DEMOLITION PLAN

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

LEGEND

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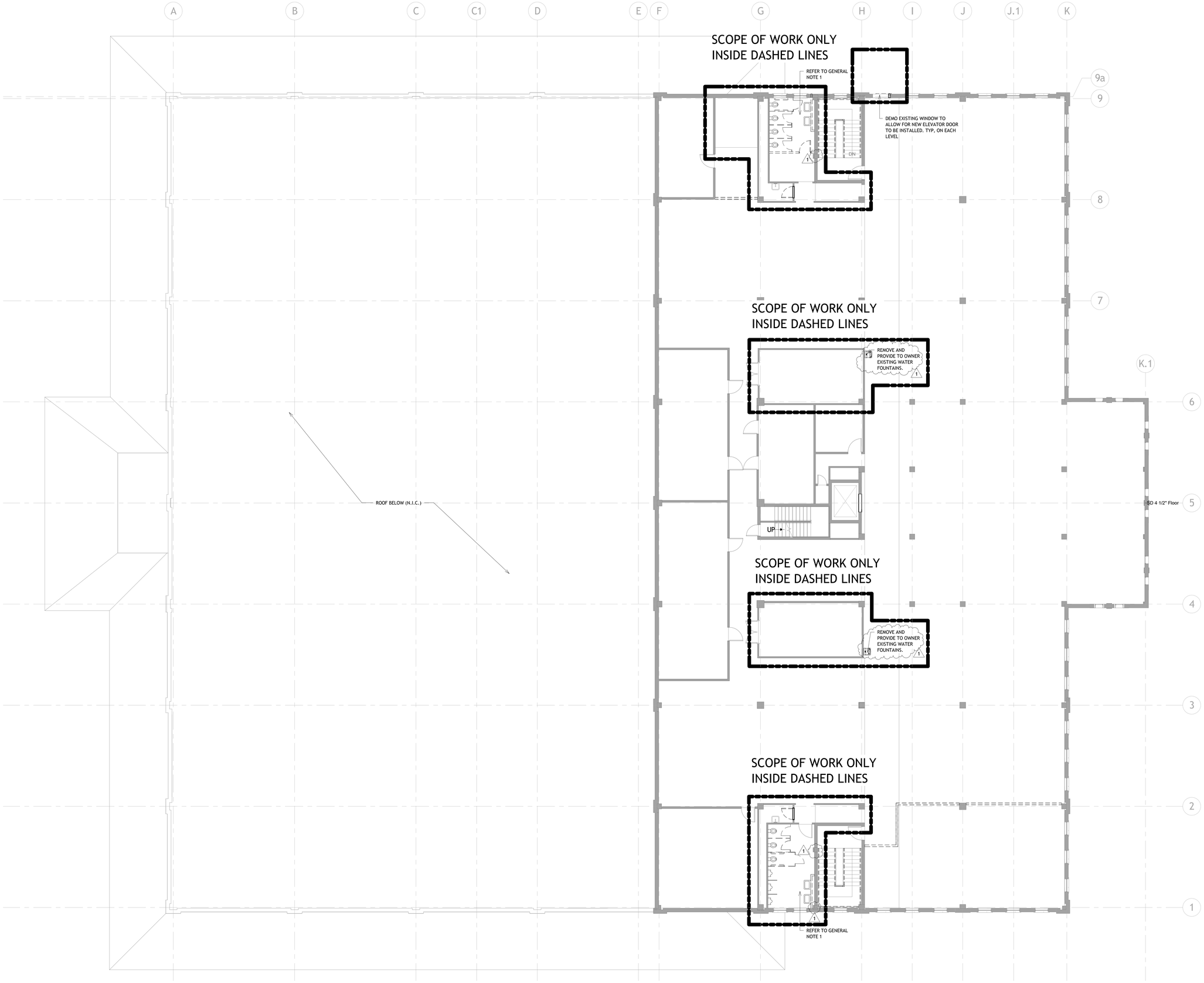
SECOND FLOOR DEMOLITION PLAN

D-102



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1 THIRD FLOOR DEMOLITION PLAN

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

LEGEND

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EXISTING TO REMAIN

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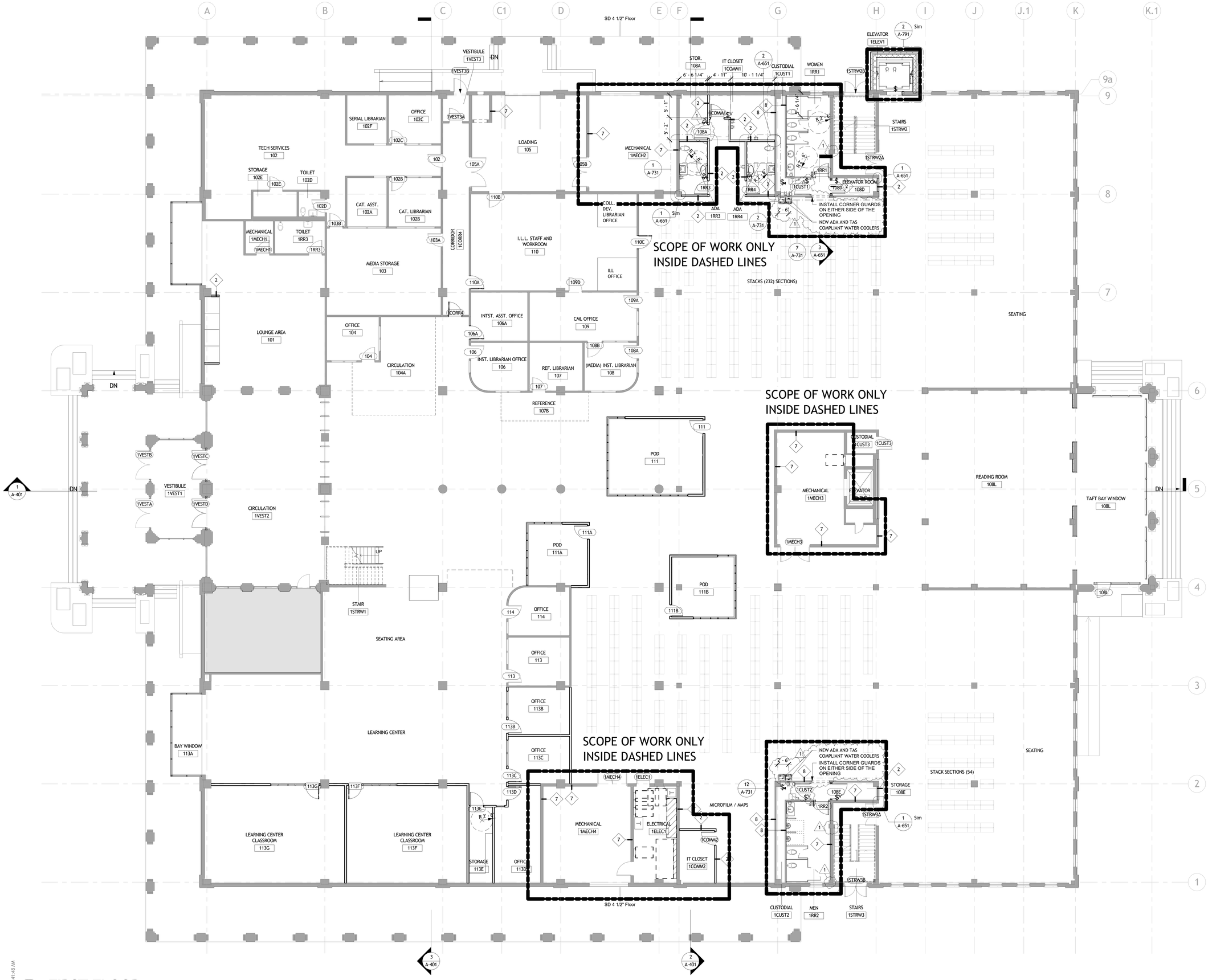
THIRD FLOOR DEMOLITION PLAN

D-103



1 FIRST FLOOR
SCALE: 1/8" = 1'-0"

4/11/2018 9:41:48 AM

PHASE LEGEND

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- NOT IN SCOPE
- 100 DOOR NUMBER
- 100 ROOM NUMBER

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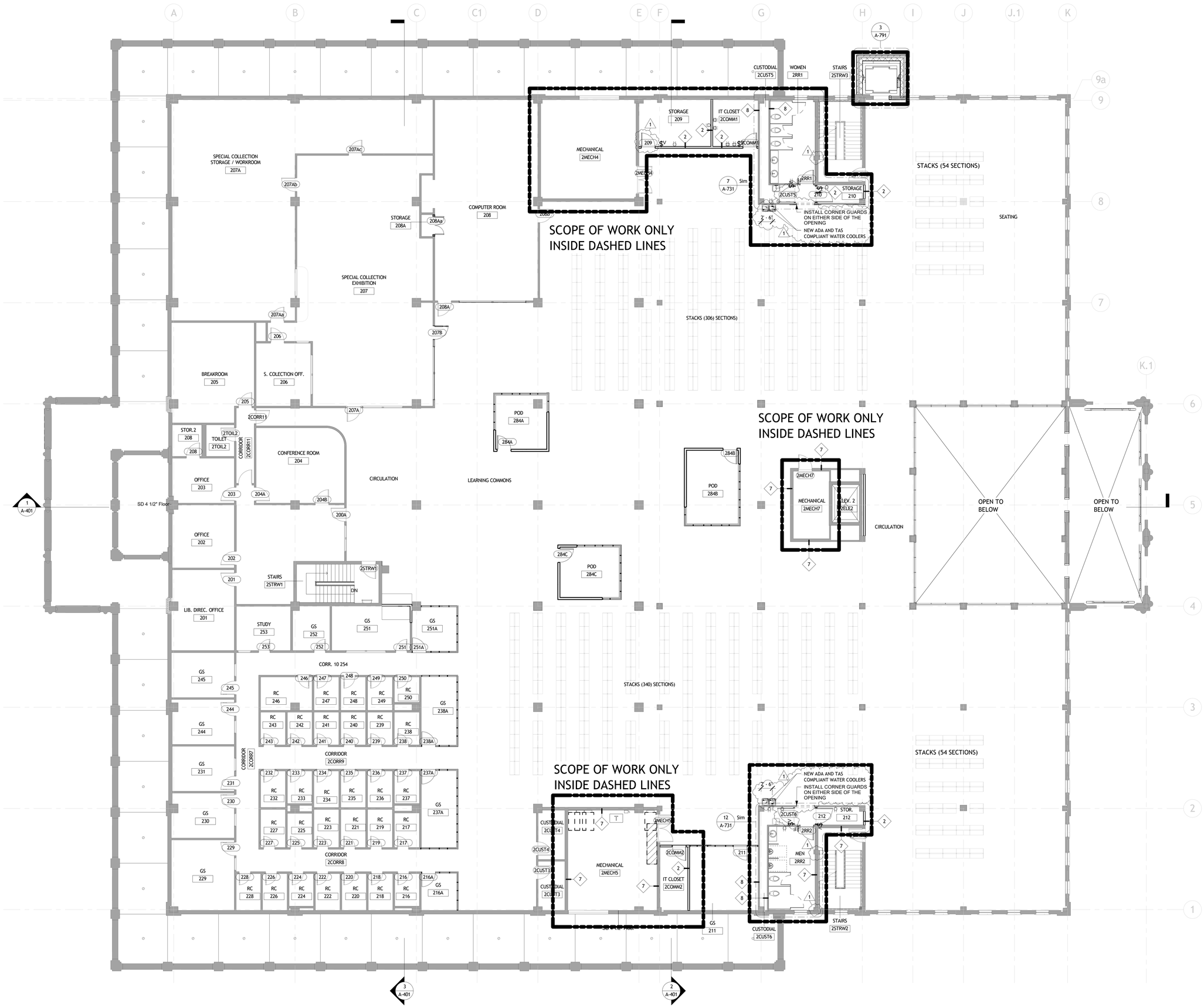
FIRST FLOOR PLAN

A-101



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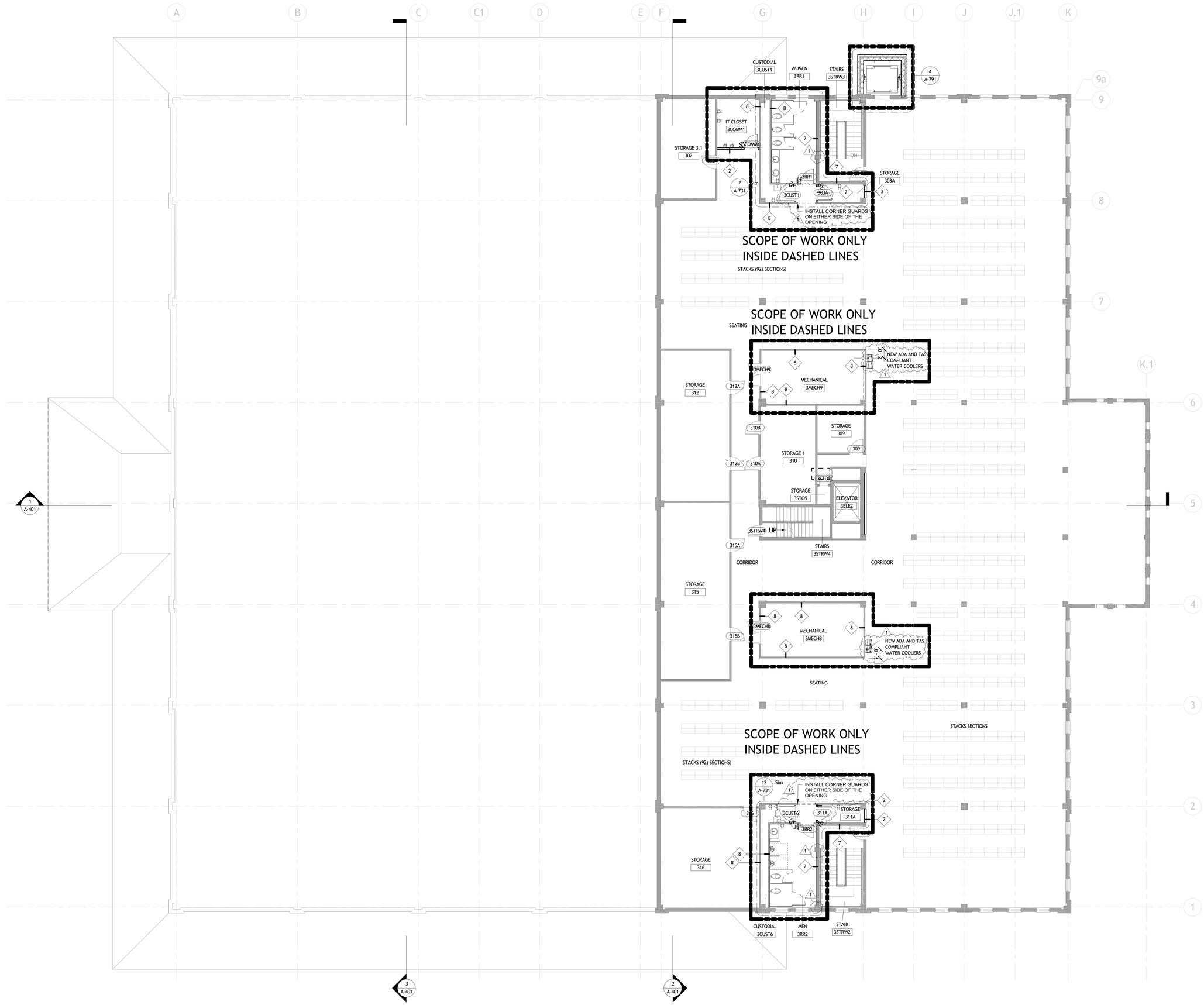
SECOND FLOOR PLAN

A-102



THIRD FLOOR

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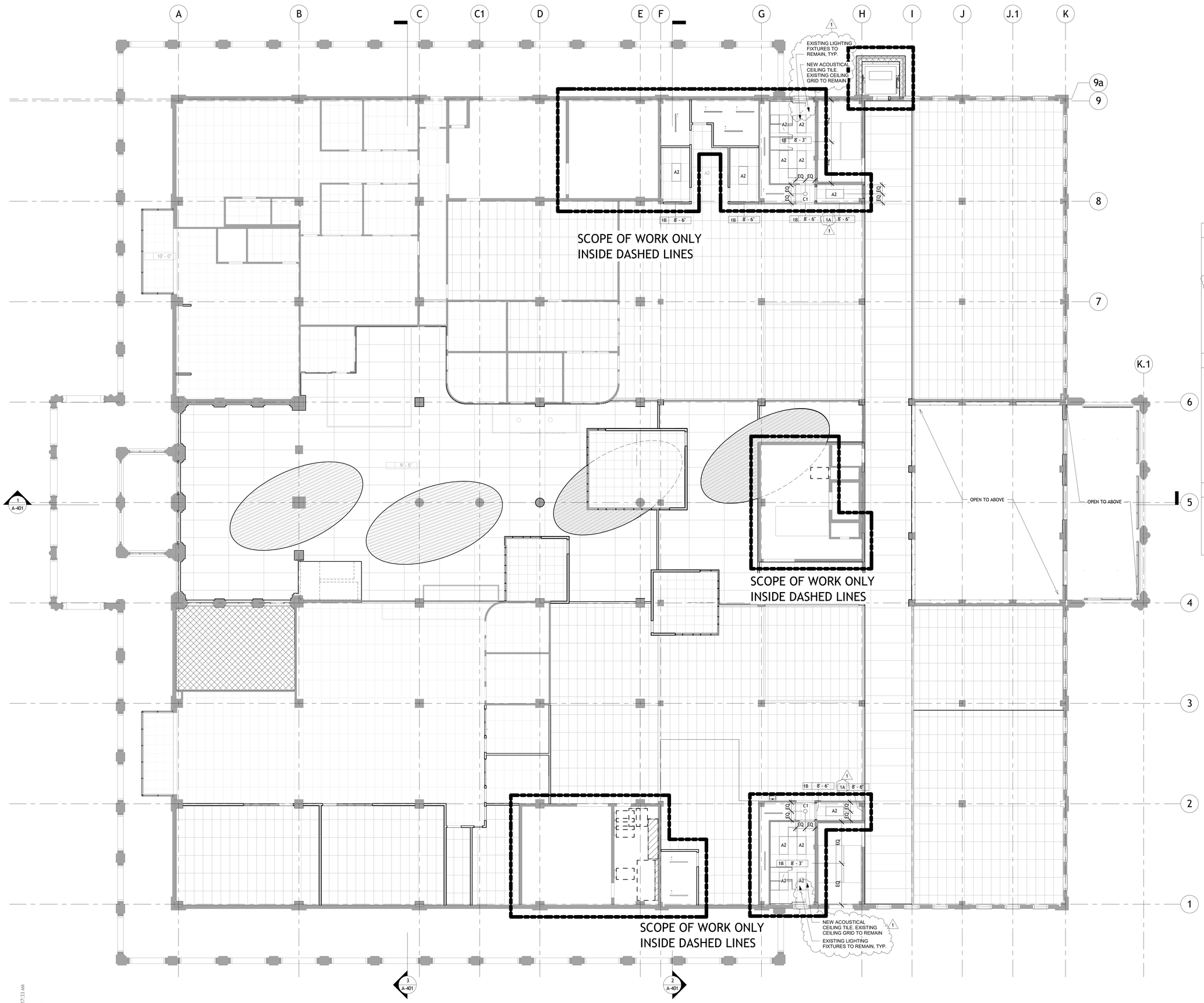
THIRD FLOOR PLAN

A-103



1 FIRST FLOOR RCP

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

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CEILING TYPES

CEILING TYPE — FINISHED CEILING HEIGHT A.F.F

- 1A — ACOUSTICAL CEILING PANEL TYPE 1 (ACT1A) WITH METAL SUSPENSION SYSTEM TYPE 1A, TO REMAIN
- 1B — ACOUSTICAL CEILING PANEL TYPE 1 (ACT1B) WITH METAL SUSPENSION SYSTEM TYPE 1B
- 7 — NO CEILING. EXPOSED TO THE UNDERSIDE OF STRUCTURE

LIGHTING FIXTURES TYPES

ALSO SEE ELECTRICAL DRAWINGS

- TYPE A2 - 2X4 RECESSED FIXTURE
- EMERGENCY 2X4 RECESSED FIXTURE
- TYPE S - LED STRIP FIXTURE
- WALL MOUNTED LED EDGE-LIT EXIT SIGN
- CEILING PENDANT MOUNTED LED EDGE-LIT EXIT SIGN
- TYPE C1 - ROUND RECESSED LED DOWNLIGHT

DEVICES, GRILLES, & DIFFUSERS

ALSO SEE MECHANICAL, ELECTRICAL, I.T. DRAWINGS

- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE

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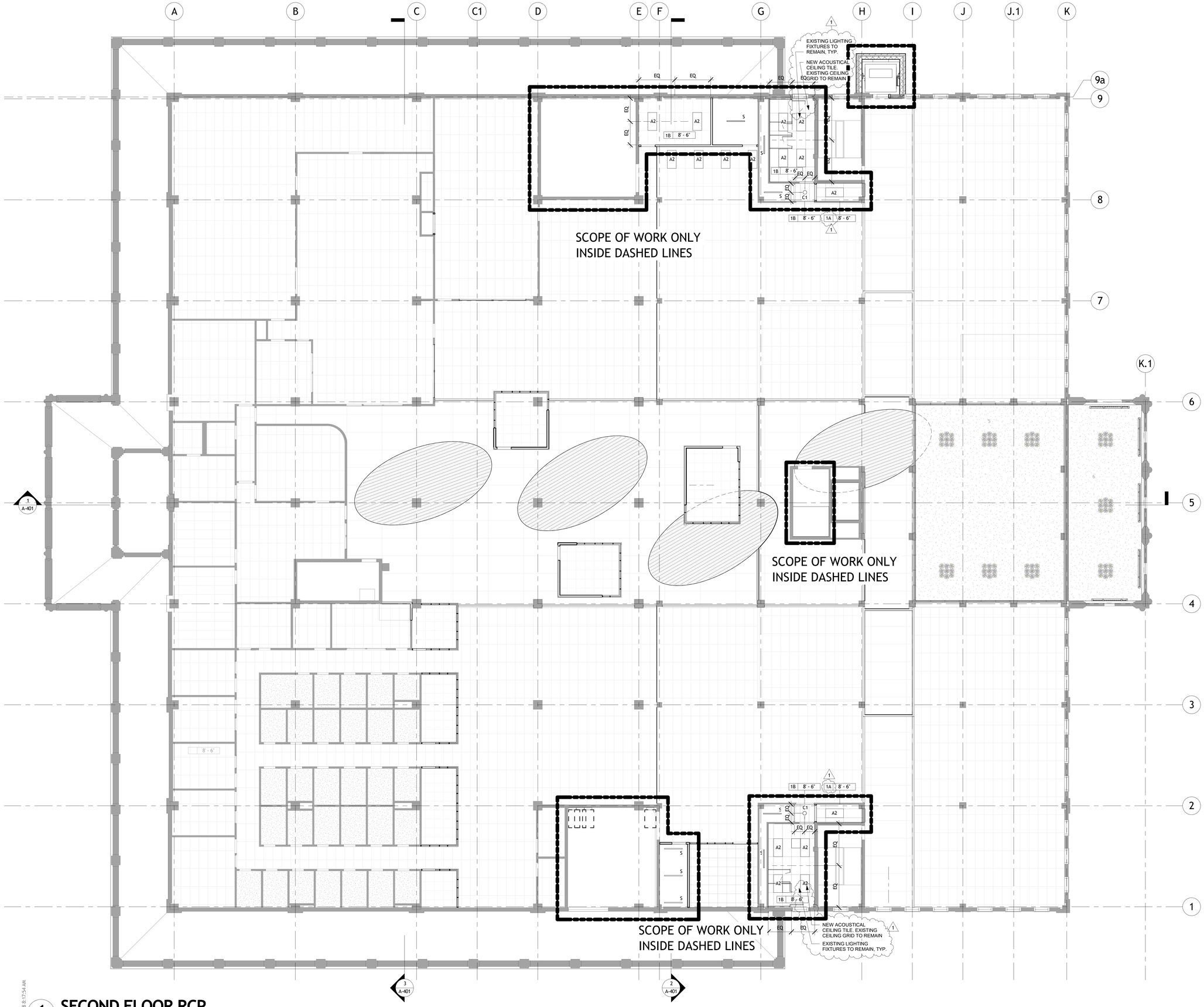
FIRST FLOOR REFLECTED CEILING PLAN

A-201



1 SECOND FLOOR RCP

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

4/10/2018 8:17:54 AM

PHASE LEGEND

- PHASE I - WORK TO BE COMPLETED IN 2018
- PHASE II - WORK TO BE COMPLETED IN 2019
- NOT IN SCOPE
- 100 DOOR NUMBER
- 100 ROOM NUMBER

GENERAL NOTES:

1. SEE FINISH SCHEDULE FOR ALL WALL, FLOOR/CEILING FINISHES, PLUMBING FIXTURES, ACCESSORIES, AND LIGHTING.
2. ALL DIMENSIONS ARE TO FINISH FACE OF WALL, UON.
3. EXISTING WALL FRAMING TO REMAIN. NEW WALL TO RECEIVE FRAMING TO MATCH EXISTING.
4. SEE DEMOLITION RCP FOR EXTENTS OF EXISTING CEILINGS TILES, FIXTURES, AND ACT GRIDS TO REMAIN.
5. CEILING TYPW 1B TO MATCH CEILING TYPE 1A IN CEILING GRID, TILE AND ELEVATION AS NOTED ON REFLECTED CEILING PLANS.

CEILING TYPES

CEILING TYPE — FINISHED CEILING HEIGHT A.F.F

- 1A — ACOUSTICAL CEILING PANEL TYPE 1 (ACT1A) WITH METAL SUSPENSION SYSTEM TYPE 1A, TO REMAIN
- 1B — ACOUSTICAL CEILING PANEL TYPE 1 (ACT1B) WITH METAL SUSPENSION SYSTEM TYPE 1B
- 7 — NO CEILING. EXPOSED TO THE UNDERSIDE OF STRUCTURE

LIGHTING FIXTURES TYPES

ALSO SEE ELECTRICAL DRAWINGS

- TYPE A2 - 2X4 RECESSED FIXTURE
- EMERGENCY 2X4 RECESSED FIXTURE
- TYPE S - LED STRIP FIXTURE
- WALL MOUNTED LED EDGE-LIT EXIT SIGN
- CEILING PENDANT MOUNTED LED EDGE-LIT EXIT SIGN
- TYPE C1 - ROUND RECESSED LED DOWNLIGHT

DEVICES, GRILLES, & DIFFUSERS

ALSO SEE MECHANICAL, ELECTRICAL, I.T. DRAWINGS

- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE

HOLZMAN MOSS BOTTINO ARCHITECTURE

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ROCKWALL, TX , 75087
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WICHITA FALLS, TEXAS

SEAL:

REGISTERED ARCHITECT DOUGLAS J. MOSS STATE OF TEXAS

100% CD SUBMISSION PHASE I

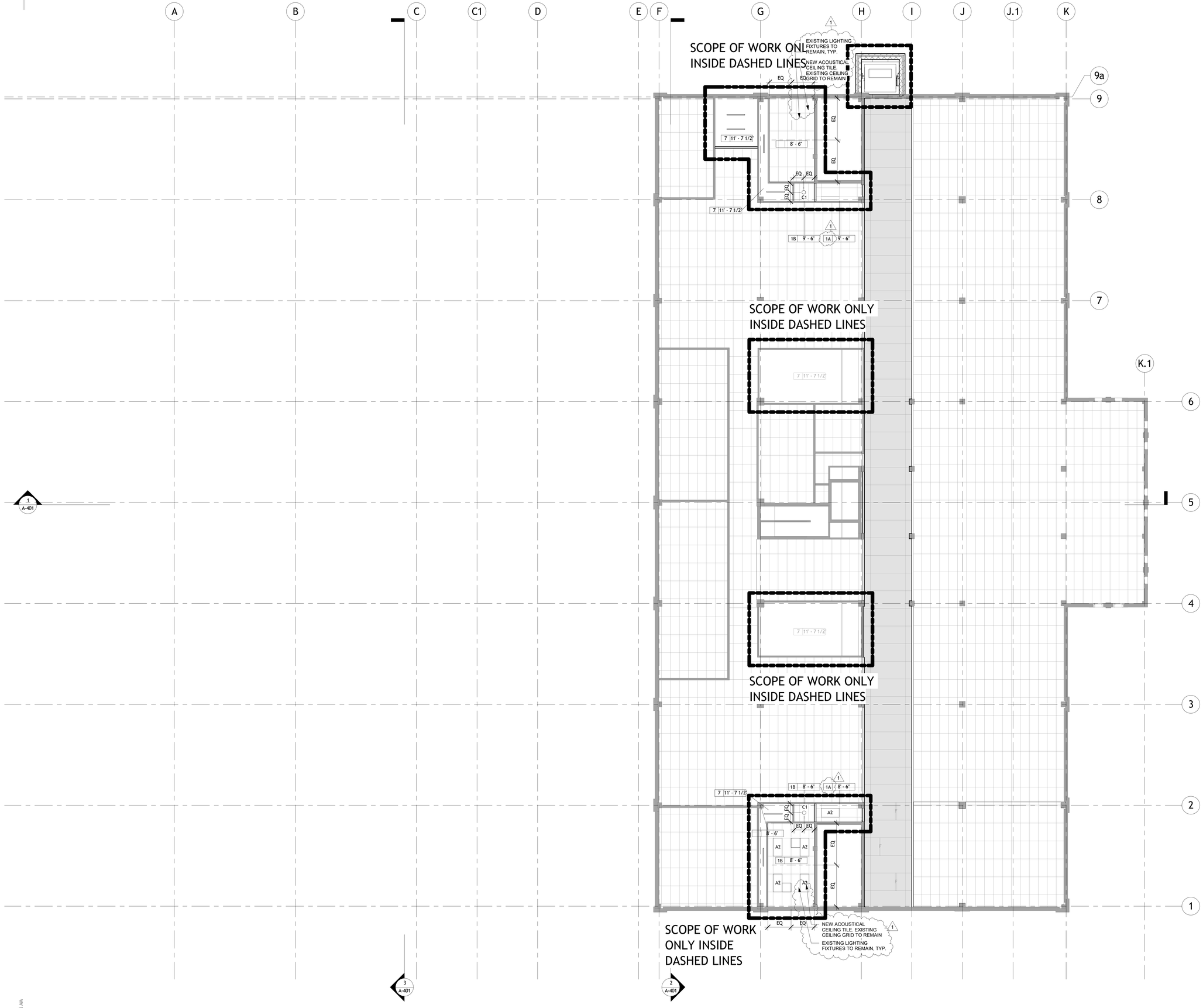
ISSUE DATE: 03.19.2018

REVISION	DESCRIPTION	DATE
1	ADDENDUM 1	04.03.18

HMBA PROJECT NUMBER: 06113.00

SECOND FLOOR REFLECTED CEILING PLAN

A-202



THIRD FLOOR RCP

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

4/10/2018 8:17:55 AM

PHASE LEGEND

- PHASE I - WORK TO BE COMPLETED IN 2018
- PHASE II - WORK TO BE COMPLETED IN 2019
- NOT IN SCOPE
- 100 DOOR NUMBER
- 100 ROOM NUMBER

GENERAL NOTES:

1. SEE FINISH SCHEDULE FOR ALL WALL, FLOOR/CEILING FINISHES, PLUMBING FIXTURES, ACCESSORIES, AND LIGHTING.
2. ALL DIMENSIONS ARE TO FINISH FACE OF WALL, UON.
3. EXISTING WALL FRAMING TO REMAIN. NEW WALL TO RECEIVE FRAMING TO MATCH EXISTING.
4. SEE DEMOLITION RCP FOR EXTENTS OF EXISTING CEILINGS TILES, FIXTURES, AND ACT GRIDS TO REMAIN.
5. CEILING TYPW 1B TO MATCH CEILING TYPE 1A IN CEILING GRID, TILE AND ELEVATION AS NOTED ON REFLECTED CEILING PLANS.

CEILING TYPES

CEILING TYPE — FINISHED CEILING HEIGHT A.F.F

1A	ACOUSTICAL CEILING PANEL TYPE 1 (ACT1A) WITH METAL SUSPENSION SYSTEM TYPE 1A, TO REMAIN
1B	ACOUSTICAL CEILING PANEL TYPE 1 (ACT1B) WITH METAL SUSPENSION SYSTEM TYPE 1B
7	NO CEILING. EXPOSED TO THE UNDERSIDE OF STRUCTURE

LIGHTING FIXTURES TYPES

ALSO SEE ELECTRICAL DRAWINGS

- TYPE A2 - 2X4 RECESSED FIXTURE
- EMERGENCY 2X4 RECESSED FIXTURE
- TYPE S - LED STRIP FIXTURE
- WALL MOUNTED LED EDGE-LIT EXIT SIGN
- CEILING PENDANT MOUNTED LED EDGE-LIT EXIT SIGN
- TYPE C1 - ROUND RECESSED LED DOWNLIGHT

DEVICES, GRILLES, & DIFFUSERS

ALSO SEE MECHANICAL, ELECTRICAL, I.T. DRAWINGS

- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE

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1	ADDENDUM 1	04.03.18

HMBA PROJECT NUMBER: 06113.00

THIRD FLOOR REFLECTED CEILING PLAN

A-203

HOLZMAN MOSS BOTTINO
ARCHITECTURE

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IT / AV CONSULTANT:
SUMMIT CONSULTANTS
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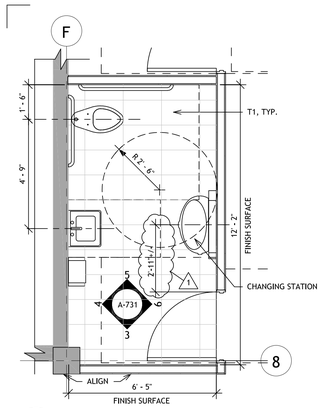
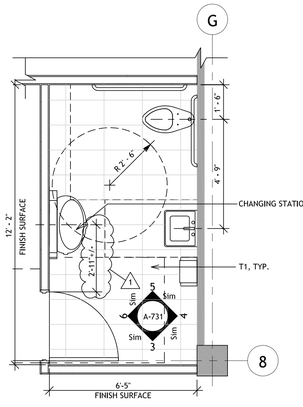
T: 214-420-9111



1 ADA RESTROOM PLAN
SCALE: 3/8" = 1'-0"



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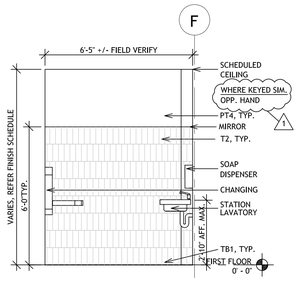
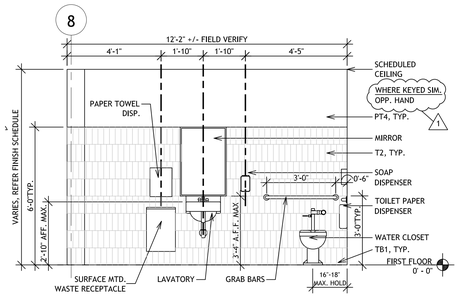
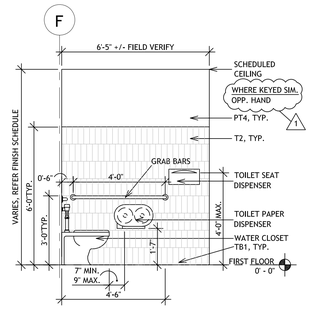
SCALE: 3/8" = 1'-0"



3 ADA RESTROOM ELEV. 1
SCALE: 3/8" = 1'-0"



4 ADA RESTROOM ELEV. 2
SCALE: 3/8" = 1'-0"



5 ADA RESTROOM ELEV. 3
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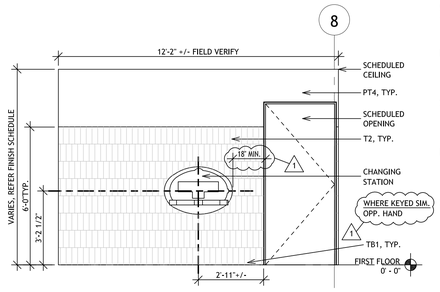

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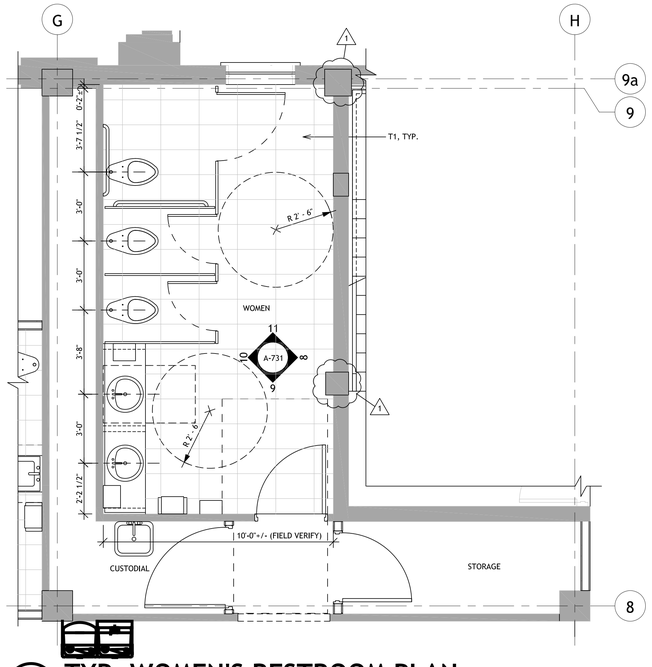
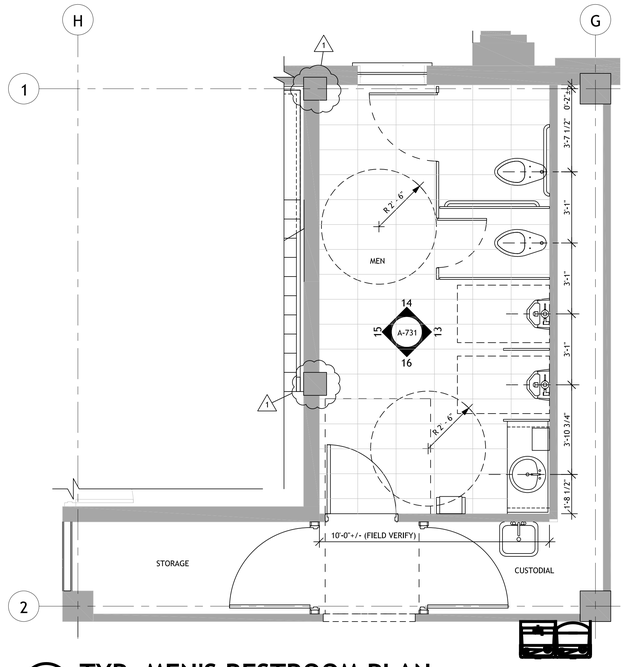
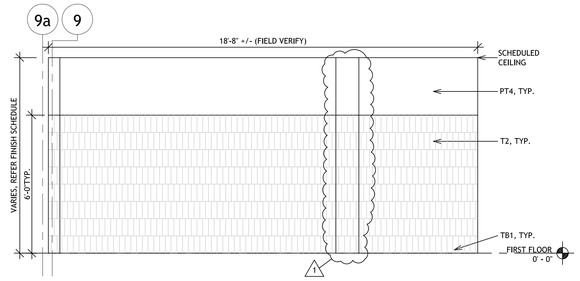


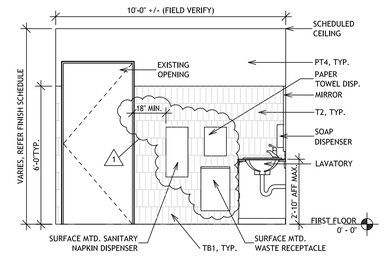
7 TYP. WOMEN'S RESTROOM PLAN
SCALE: 3/8" = 1'-0"



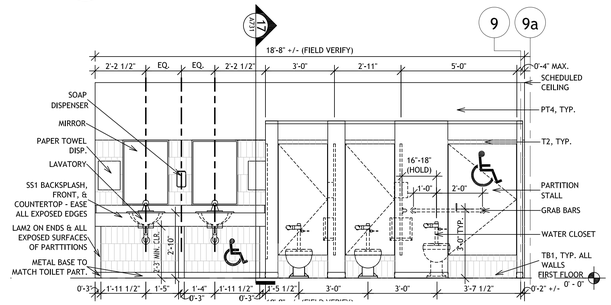
12 TYP. MEN'S RESTROOM PLAN
SCALE: 3/8" = 1'-0"



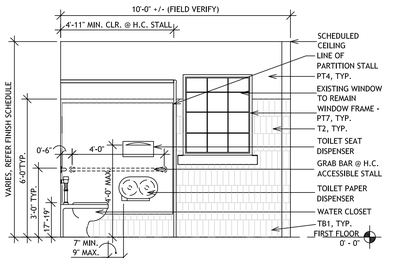
8 WOMEN RESTOOM ELEV. 1
SCALE: 3/8" = 1'-0"



9 WOMEN RESTOOM ELEV. 2
SCALE: 3/8" = 1'-0"



10 WOMEN RESTROOM ELEV. 3
SCALE: 3/8" = 1'-0"



11 WOMEN RESTROOM ELEV. 4
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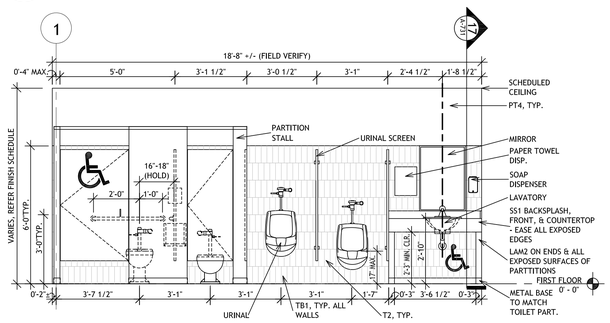
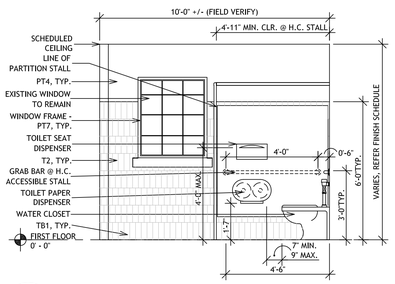


13 MEN RESTROOM ELEV. 1
SCALE: 3/8" = 1'-0"



14 MEN RESTROOM ELEV. 2
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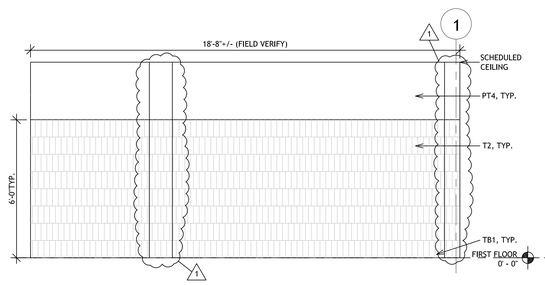
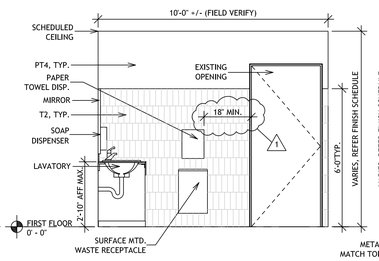
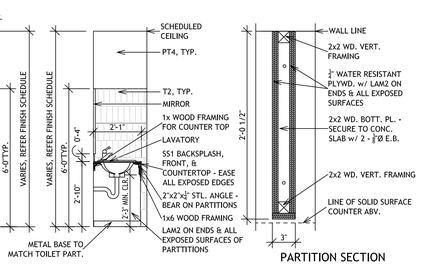


15 MEN RESTROOM ELEV. 3
SCALE: 3/8" = 1'-0"



16 MEN RESTROOM ELEV. 4
SCALE: 3/8" = 1'-0"



PARTITION SECTION

17 INTERIOR ELEV./SEC.
SCALE: 3/8"=1'-0"

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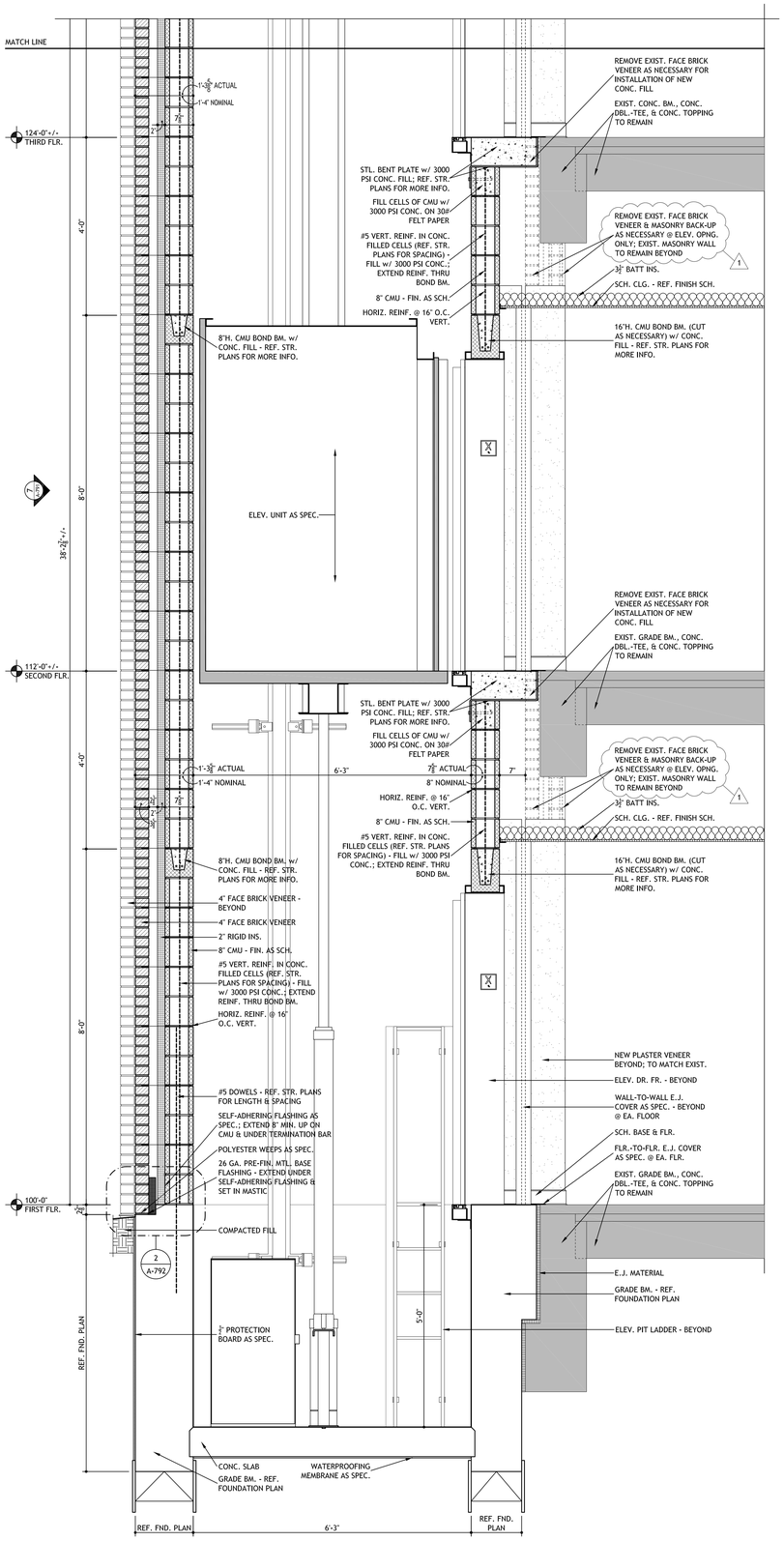
1	ADDENDUM 1	04.09.18

HMBA PROJECT NUMBER: 06113.00

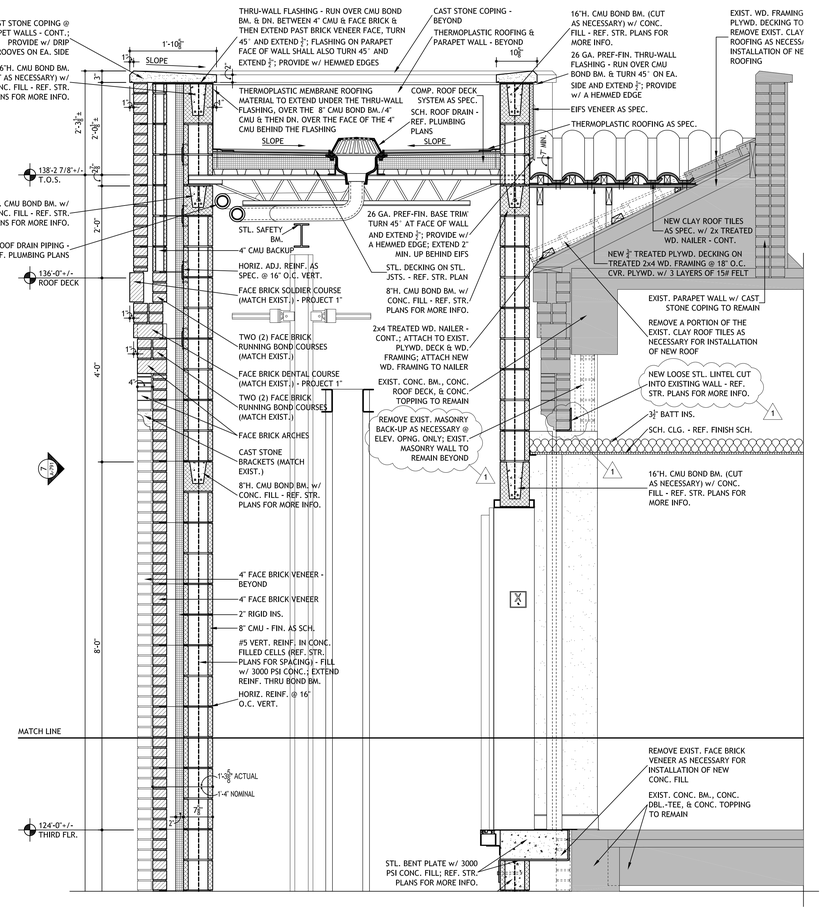
RESTROOM PLANS AND DETAILS

A-731

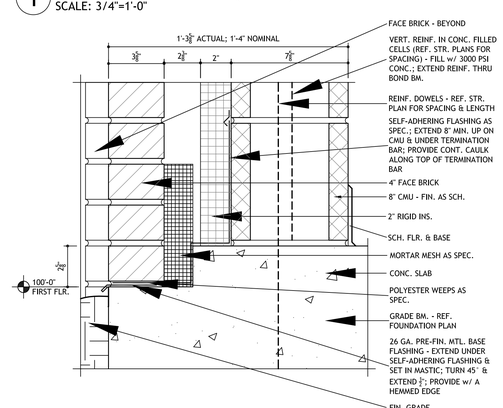
2/22/2018 4:47:00 PM



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



1 ELEVATOR SECTION (cont.)
SCALE: 3/4"=1'-0"



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

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REVISION	DESCRIPTION	DATE
1	ADDENDUM 1	04.09.18

HMBA PROJECT NUMBER: 06113.00

FIRST FLOOR PLAN

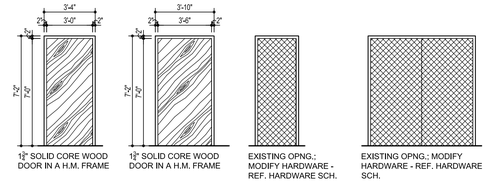
A-792

1/19/2018 12:22:56 PM

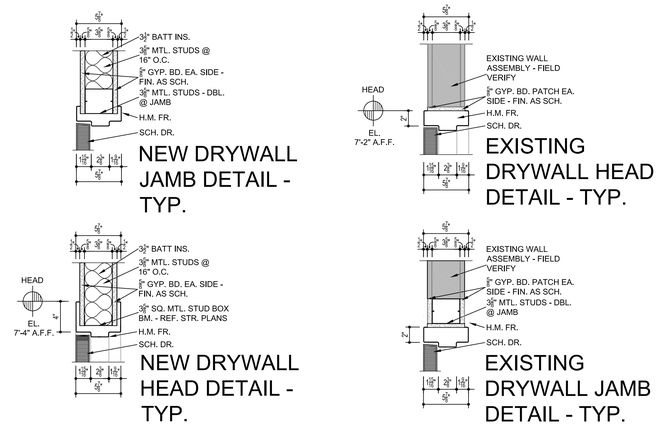
DOOR SCHEDULE

Tag	Type	Height	Width	Thickness	Door Material	Finish	Frame Type	Frame Material	Frame Finish	Hardware Group	Fire Rating	Acoustical Requirements	Wall Condition	Comments
FIRST FLOOR														
105B	4	7' - 0"	6' - 8" (pair)	1 3/4"	WD	PT	4	HM	PT	5	NR	-----	Existing	
108A	2	7' - 0"	3' - 6"	1 3/4"	WD	PT	2	HM	PT	3	NR	-----	New Construction	
108D	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	4	NR	-----	New Construction	
108E	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	3	NR	-----	New Construction	
1COMM1	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	3	NR	-----	New Construction	
1COMM2	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	3	NR	-----	New Construction	
1CUST1	2	7' - 0"	3' - 6"	1 3/4"	WD	PT	2	HM	PT	3	NR	-----	Existing	
1CUST2	2	7' - 0"	3' - 6"	1 3/4"	WD	PT	2	HM	PT	3	NR	-----	Existing	
1ELEC1	3	7' - 0"	3' - 0"	1 3/4"	WD	PT	3	HM	PT	4	NR	-----	Existing	
1MECH3	4	7' - 0"	6' - 8" (pair)	1 3/4"	WD	PT	4	HM	PT	5	NR	-----	Existing	
1MECH4	4	7' - 0"	6' - 8" (pair)	1 3/4"	WD	PT	4	HM	PT	5	NR	-----	Existing	
1RR1	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	1	NR	-----	Existing	
1RR2	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	1	NR	-----	Existing	
1RR3	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	2	NR	-----	New Construction	
1RR4	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	2	NR	-----	New Construction	
SECOND FLOOR														
209	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	3	NR	-----	New Construction	
210	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	3	NR	-----	New Construction	
212	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	4	NR	-----	New Construction	
2COMM1	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	3	NR	-----	New Construction	
2COMM2	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	3	NR	-----	New Construction	
2CUST5	2	7' - 0"	3' - 6"	1 3/4"	WD	PT	2	HM	PT	3	NR	-----	Existing	
2CUST6	2	7' - 0"	3' - 6"	1 3/4"	WD	PT	2	HM	PT	3	NR	-----	Existing	
2MECH4	4	7' - 0"	6' - 0" (pair)	1 3/4"	WD	PT	4	HM	PT	5	NR	-----	Existing	
2MECH5	4	7' - 0"	6' - 0" (pair)	1 3/4"	WD	PT	4	HM	PT	5	NR	-----	Existing	
2MECH7	3	7' - 0"	3' - 0"	1 3/4"	WD	PT	3	HM	PT	4	NR	-----	Existing	
2RR1	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	1	NR	-----	Existing	
2RR2	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	1	NR	-----	Existing	
THIRD FLOOR														
303A	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	3	NR	-----	New Construction	
311A	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	3	NR	-----	New Construction	
3COMM1	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	3	NR	-----	New Construction	
3CUST1	2	7' - 0"	3' - 6"	1 3/4"	WD	PT	2	HM	PT	3	NR	-----	Existing	
3CUST6	2	7' - 0"	3' - 6"	1 3/4"	WD	PT	2	HM	PT	3	NR	-----	Existing	
3MECH8	4	7' - 0"	5' - 0" (pair)	1 3/4"	WD	PT	4	HM	PT	5	NR	-----	Existing	
3MECH9	4	7' - 0"	5' - 0" (pair)	1 3/4"	WD	PT	4	HM	PT	5	NR	-----	Existing	
3RR1	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	1	NR	-----	Existing	
3RR2	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	1	NR	-----	Existing	

1 OPENING SCHEDULE
SCALE: NO SCALE



2 OPENING ELEVATIONS
SCALE: 1/4"=1'-0"



3 OPENING DETAILS
SCALE: 1 1/2"=1'-0"

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MIDWESTERN STATE UNIVERSITY
WICHITA FALLS, TEXAS

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PHASE I

ISSUE DATE: 03.19.2018

REVISION	DESCRIPTION	DATE
1	ADDENDUM 1	04.09.18

HMBA PROJECT NUMBER: 06113.00

FIRST FLOOR PLAN

A-851

1/19/2018 12:32:56 PM

ROOM FINISH SCHEDULE

PHASE I

		ROOM		FLOOR		WALLS				CEILING	
Occupancy	Level	NO	Name	Finish	Base	North	East	South	West	Finish	Finish Notes
1	FIRST FLOOR	1MECH4	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1	FIRST FLOOR	1ELEC1	ELECTRICAL	Existing	Existing	Existing	Existing	Existing	Existing	Existing	
1	FIRST FLOOR	1CUST2	CUSTODIAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1	FIRST FLOOR	1RR2	MEN	T1	TB1	PT4/CT3	PT4/CT3	PT4/CT3	PT4/CT3	ACT1B	SEE SHEET A-731 FOR FINISH DETAILS
1	FIRST FLOOR	108E	STORAGE	BBT1	Existing	PT1	PT1	PT1	PT1	Existing	EXISTING FLOOR TILE TO BE REMOVED. EXISTING WALL TILE TO REMAIN.
1	FIRST FLOOR	1MECH2	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1	FIRST FLOOR	1MECH3	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1	FIRST FLOOR	1RR1	WOMEN	T1	TB1	PT4/CT3	PT4/CT3	PT4/CT3	PT4/CT3	ACT1B	SEE SHEET A-731 FOR FINISH DETAILS
1	FIRST FLOOR	1CUST1	CUSTODIAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1	FIRST FLOOR	108D	ELEVATOR ROOM	BBT1	Existing	PT1	PT1	PT1	PT1	Existing	EXISTING FLOOR TILE TO BE REMOVED. EXISTING WALL TILE TO REMAIN.
1	FIRST FLOOR	1COMM1	IT CLOSET	SEE FINISH NOTES	RB1	PT1	PT1	PT1	PT1	Exposed	EXISTING CARPET TO BE REMOVED. EXPOSED CONCRETE TO BE PATCHED & REPAIRED AS NEEDED.
1	FIRST FLOOR	1RR3	ADA	T1	TB1	PT4/CT3	PT4/CT3	PT4/CT3	PT4/CT3	ACT1B	SEE SHEET A-731 FOR FINISH DETAILS
1	FIRST FLOOR	1RR4	ADA	T1	TB1	PT4/CT3	PT4/CT3	PT4/CT3	PT4/CT3	ACT1B	SEE SHEET A-731 FOR FINISH DETAILS
1	FIRST FLOOR	108A	STOR.	SEE FINISH NOTES	RB1	PT1	PT1	PT1	PT1	Exposed	EXISTING CARPET TO BE REMOVED. EXPOSED CONCRETE TO BE PATCHED & REPAIRED AS NEEDED.
1	FIRST FLOOR	1ELEV1	ELEVATOR	LIN1	SEE FINISH NOTES	LAM1	LAM1	LAM1	LAM1	SEE FINISH NOTES	ARCHITECT TO SELECT FROM MANUFACTURER'S STANDARD
1	FIRST FLOOR	1COMM2	IT CLOSET	SEE FINISH NOTES	RB1	PT1	PT1	PT1	PT1	Exposed	EXISTING CARPET TO BE REMOVED. EXPOSED CONCRETE TO BE PATCHED & REPAIRED AS NEEDED.
1	SECOND FLOOR	2MECH5	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1	SECOND FLOOR	2RR2	MEN	T1	TB1	PT4/CT3	PT4/CT3	PT4/CT3	PT4/CT3	ACT1B	SEE SHEET A-731 FOR FINISH DETAILS
1	SECOND FLOOR	2CUST6	CUSTODIAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1	SECOND FLOOR	2MECH4	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1	SECOND FLOOR	2RR1	WOMEN	T1	TB1	PT4/CT3	PT4/CT3	PT4/CT3	PT4/CT3	ACT1B	SEE SHEET A-731 FOR FINISH DETAILS
1	SECOND FLOOR	2CUST5	CUSTODIAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1	SECOND FLOOR	210	STORAGE	BBT1	Existing	PT1	PT1	PT1	PT1	Existing	EXISTING FLOOR TILE TO BE REMOVED. EXISTING WALL TILE TO REMAIN.
1	SECOND FLOOR	2COMM1	IT CLOSET	SEE FINISH NOTES	RB1	PT1	PT1	PT1	PT1	Exposed	EXISTING CARPET TO BE REMOVED. EXPOSED CONCRETE TO BE PATCHED & REPAIRED AS NEEDED.
1	SECOND FLOOR	212	STOR.	BBT1	Existing	PT1	PT1	PT1	PT1	Existing	EXISTING FLOOR TILE TO BE REMOVED. EXISTING WALL TILE TO REMAIN.
1	SECOND FLOOR	209	STORAGE	SEE FINISH NOTES	RB1	PT1	PT1	PT1	PT1	Exposed	EXISTING CARPET TO BE REMOVED. EXPOSED CONCRETE TO BE PATCHED & REPAIRED AS NEEDED.
1	SECOND FLOOR	2MECH7	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1	SECOND FLOOR	2COMM2	IT CLOSET	SEE FINISH NOTES	RB1	PT1	PT1	PT1	PT1	Exposed	EXISTING CARPET TO BE REMOVED. EXPOSED CONCRETE TO BE PATCHED & REPAIRED AS NEEDED.
1	THIRD FLOOR	3MECH9	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1	THIRD FLOOR	3MECH8	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1	THIRD FLOOR	3RR2	MEN	T1	TB1	PT4/CT3	PT4/CT3	PT4/CT3	PT4/CT3	ACT1B	SEE SHEET A-731 FOR FINISH DETAILS
1	THIRD FLOOR	3CUST6	CUSTODIAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1	THIRD FLOOR	3RR1	WOMEN	T1	TB1	PT4/CT3	PT4/CT3	PT4/CT3	PT4/CT3	ACT1B	SEE SHEET A-731 FOR FINISH DETAILS
1	THIRD FLOOR	3CUST1	CUSTODIAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1	THIRD FLOOR	303A	STORAGE	BBT1	Existing	PT1	PT1	PT1	PT1	Existing	EXISTING FLOOR TILE TO BE REMOVED.
1	THIRD FLOOR	311A	STORAGE	BBT1	Existing	PT1	PT1	PT1	PT1	Existing	EXISTING FLOOR TILE TO BE REMOVED. EXISTING WALL TILE TO REMAIN.
1	THIRD FLOOR	3COMM1	IT CLOSET	SEE FINISH NOTES	RB1	PT1	PT1	PT1	PT1	Exposed	EXISTING CARPET TO BE REMOVED. EXPOSED CONCRETE TO BE PATCHED & REPAIRED AS NEEDED.

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MIDWESTERN STATE UNIVERSITY
WICHITA FALLS, TEXAS

SEAL:

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ISSUE DATE: 03.19.2018

REVISION	DESCRIPTION	DATE
1	ADDENDUM 1	04.03.18

HMBA PROJECT NUMBER: 06113.00

FINISH & MATERIAL SCHEDULE, NOTES & DETAILS

I-001

4/10/2018 8:17:58 AM

GENERAL NOTES

1. STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE PROVISIONS OF THE 2015 INTERNATIONAL BUILDING CODE.

2. THE BUILDING STRUCTURE HAS BEEN DESIGNED TO RESIST THE FOLLOWING CODE PRESCRIBED LOADS:

LIVE LOADS

ROOF	20 PSF
FLOOR	100 PSF

SNOW LOADS

GROUND SNOW LOAD, Pg.	5 PSF
SNOW IMPORTANCE FACTOR,Is	1.0
SNOW EXPOSURE FACTOR, Ce	0.9
THERMAL FACTOR, Ct	1.0

WIND LOADS

ULTIMATE DESIGN WIND SPEED (RISK CATEGORY II)	115 MPH
WIND IMPORTANCE FACTOR, Iw	1.15
EXPOSURE CATEGORY	B
SURFACE ROUGHNESS	B

SEISMIC LOADS

OCCUPANCY CATEGORY	III
SEISMIC IMPORTANCE FACTOR, IE	1.25
SPECTRAL RESPONSE COEFFICIENT, SS	12.4%g
SPECTRAL RESPONSE COEFFICIENT, S1	6.0%g
SITE CLASS	C
SEISMIC DESIGN CATEGORY	B

3. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKMEN AND OTHER PERSONS DURING CONSTRUCTION.

4. THE STRUCTURAL DRAWINGS SHALL NOT BE SCALED FOR DETERMINATION OF QUANTITY, LENGTH OR FIT OF MATERIALS.

5. PRINCIPAL OPENINGS ARE INDICATED ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, BLOCKOUTS, INSERTS, CURBS, OPENINGS AND SLAB DEPRESSIONS NOT SHOWN.

6. CONTRACTOR SHALL COMPARE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.

7. CONTRACTOR SHALL INSURE THAT CONSTRUCTION MATERIALS WHOSE WEIGHT EXCEEDS THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS ARE NOT STORED ON STRUCTURALLY SUPPORTED FLOOR OR ROOF FRAMING.

8. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITION WHICH, IN HIS OR HER OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS IN THE STRUCTURE.

9. LOADINGS FOR MECHANICAL EQUIPMENT ARE BASED ON THE UNIT(S) SHOWN ON THE STRUCTURAL DRAWINGS. ANY CHANGES IN TYPE, SIZE, WEIGHT OR NUMBER OF UNIT(S) SHALL BE REPORTED TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS OR MECHANICAL EQUIPMENT.

10. REPRODUCTION OF THE STRUCTURAL DRAWINGS, EITHER IN PART OR IN WHOLE, FOR SUBMITTALS OR SHOP DRAWINGS SIGNIFIES ACCEPTANCE OF INFORMATION SHOWN AS CORRECT AND OBLIGES THE USER TO ANY EXPENSE, REAL OR IMPLIED, ARISING FROM THEIR USE.

11. CONTRACTOR SHALL SCHEDULE SITE OBSERVATION VISITS WITH THE ENGINEER OF RECORD AND/OR TESTING LABORATORY A MINIMUM OF FORTY-EIGHT HOURS PRIOR TO THE REQUIRED TIME OF THE VISIT.

12. CONTRACTOR SHALL ALLOW TEN (10) WORKING DAYS FOR THE ENGINEER TO REVIEW EACH STRUCTURAL SUBMITTAL OR SHOP DRAWING.

13. FIELD VERIFY ALL HORIZONTAL AND VERTICAL DIMENSIONS OF EXISTING STRUCTURE PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN CONDITIONSOBSERVED IN THE FIELD AND CONDITIONS INDICATED ON PLAN.

FOUNDATION NOTES

1. THE FOUNDATION DESIGN IS BASED ON INFORMATION PRESENTED IN THE EXISTING STRUCTURAL DRAWINGS FOR THE EXISTING BUILDINGS ON SITE.

2. THE FOUNDATION SHALL CONSIST OF AUGER-EXCAVATED, UNDER-REAMED DRILLED REINFORCED CONCRETE PIERS. REFER TO TYPICAL PIER DETAIL FOR BEARING STRATA. PIERS HAVE BEEN PROPORTIONED FOR THE FOLLOWING:

END BEARING 6,000 PSF

3. ALL GRADE BEAM SIDES SHALL BE HARD FORMED, EARTH-FORMING IS NOT ACCEPTABLE.

4. CORRUGATED PAPER FORMS, AS MANUFACTURED BY SUREVOID PRODUCTS INC., SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER TO PROVIDE A NOMINAL EIGHT (8) INCH VOID BENEATH ALL GRADE BEAMS. 3/8 INCH THICK BY SIXTEEN (16) INCH HIGH PLASTIC BACKFILL RETAINER BOARDS, AS MANUFACTURED BY SUREVOID PRODUCTS, INC., SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER CONTINUOUSLY ALONG EACH SIDE OF ALL GRADE BEAMS.

5. THE BUILDING SLAB ON GRADE SHALL BE PLACED ON A VAPOR BARRIER/RETARDER OVER A FOUR (4) INCH THICK LAYER OF MOIST COARSE SAND OVER A MINIMUM OF FOUR (4) FEET OF SELECT FILL. THE BUILDING AREA SHALL BE STRIPPED OF ALL VEGETATION, TOPSOIL AND ANY OTHER DELETERIOUS MATERIALS. THE EXPOSED SUBGRADE SOILS SHALL BE PROOF-ROLLED WITH A HEAVY VEHICLE TO EVIDENCE WEAK AREAS. SOFT SPOTS IN THE SUBGRADE SHALL BE EXCAVATED TO FIRM SOIL AND REPLACED WITH SELECT FILL. SELECT FILL SHALL BE INORGANIC AND PREDOMINANTLY GRANULAR WITH A LIQUID LIMIT LESS THAN THIRTY-FIVE (35) AND A PLASTICITY INDEX BETWEEN FIVE (5) AND FIFTEEN (15). SELECT FILL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED NINE (9) INCHES AND COMPACTED TO A DENSITY BETWEEN 92 AND 98 PERCENT OF THE MAXIMUM STANDARD PROCTOR DENSITY. THE MOISTURE CONTENT OF THE COMPACTED SOILS SHALL BE MAINTAINED BETWEEN OPTIMUM AND FOUR (4) PERCENT OF OPTIMUM.

6. VAPOR BARRIER/RETARDER SHALL BE IN COMPLIANCE WITH ASTM E 1745 CLASS A, HAVE A MINUMUM THICKNESS OF FIFTEEN (15) MILS AND A PERMEANCE AS TESTED AFTER MANDATORY CONDITIONING (ASTM E 154 SECTIONS 8, 11, 12, 13) LESS THAN 0.01 PERMS (GRAINS/(FT2*HR*IN.HG)) PER ASTM E 96 OR F 1249. MEMBRANE, TAPE, AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.

7. IT IS RECOMMENDED THAT THE BUILDING OWNER RETAIN A QUALIFIED INDEPENDENT INSPECTION SERVICE TO VERIFY BEARING STRATA, LOCATION, DIMENSIONS, SELECT FILL PLACEMENT/COMPACTION AND REINFORCEMENT SIZE AND PLACEMENT.

REINFORCING STEEL NOTES

1. ALL DETAILING OF STEEL REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO ACI COMMITTEE 315 PUBLICATION SP-66, "ACI DETAILING MANUAL."

2. DEFORMED BAR REINFORCEMENT SHALL BE DOMESTIC NEW BILLET STEEL IN CONFORMANCE WITH ASTM A615, GRADE 60.

STRUCTURAL CONCRETE NOTES

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301 AND ACI 318. ALL CONCRETE SHALL BE LABORATORYDESIGNED AND CONTROLLED.

2. UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL HAVE SAND AND GRAVEL OR CRUSHED STONE COARSE AGGREGATES AND A CORRESPONDING TWENTY-EIGHT (28) DAY COMPRESSIVE STRENGTH OF 3,000 PSI. ALL CONCRETE THAT WILL BE PERMANENTLY EXPOSED TO WEATHER SHALL CONTAIN AN AIR ENTRAINING AGENT THAT PROVIDES FOUR (4) TO SIX (6) PERCENT AIR BY VOLUME.

3. CONCRETE PROTECTION FOR STEEL REINFORCEMENT SHALL BE AS FOLLOWS (SEE ACI 318, SECTION 7.7 FOR CONDITIONS NOT INDICATED):

ALL CONCRETE PLACED AGAINST SOIL	3"
SLABS ON GRADE	AT SLAB MID-DEPTH
FORMED GRADE BEAMS	3" BOTTOM, 2" SIDES, 1 1/2" TOP
CONCRETE ON STEEL DECK	AT MID-DEPTH OF CONCRETE

4. LOCATE JOINTS TO LEAST IMPAIR STRENGTH AND APPEARANCE OF STRUCTURE. LOCATE HORIZONTAL JOINTS IN CONCRETE ONLY WHERE THEY NORMALLY OCCUR OR WHERE INDICATED ON PLAN. LOCATE VERTICAL JOINTS IN THE MIDDLE THIRD OF SPAN.

5. ROUGHEN SURFACE OF HORIZONTAL OR NEARLY HORIZONTAL CONSTRUCTION JOINTS SO THAT AGGREGATE SHALL BE EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSENED PARTICLES OR DAMAGED CONCRETE.

6. THE PLACEMENT OF SLEEVES OR OPENINGS THRU CONCRETE MEMBERS IS PROHIBITED UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER OF RECORD.

7. PROVIDE CHAMFERS AND REVEALS AS INDICATED IN THE ARCHITECTURAL DRAWINGS.

8. THE BUILDING OWNER SHALL SECURE AN INDEPENDENT TESTING LABORATORY TO PERFORM AT LEAST ONE COMPRESSIVE STRENGTH TEST FOR EACH ONE HUNDRED (100) CUBIC YARDS, OR FRACTION THEREOF, OF EACH MIX DESIGN OF CONCRETE PLACED ON ANY ONE DAY. THE LABORATORY SHALL RECORD THE MIX DESIGN, LOCATION OF PLACEMENT, AND SLUMP OF EACH SPECIMEN.

9. A COMPRESSIVE STRENGTH TEST SHALL BE COMPRISED OF FOUR (4) 6"X12" OR FIVE (5) 4"X8" CYLINDER SPECIMENS OBTAINED IN ACCORDANCE WITH ASTM C31. ONE (1) CYLINDER SPECIMEN SHALL BE TESTED AT SEVEN (7) DAYS FOR INFORMATION AND TWO (2) 6"X12" CYLINDER SPECIMENS OR THREE (3) 4"X8" CYLINDER SPECIMENS SHALL BE TESTED AT TWENTY-EIGHT (28) DAYS FOR ACCEPTANCE. THE REMAINING CYLINDER SPECIMEN SHALL BE HELD FOR TESTING AS DIRECTED.

ADHESIVE ANCHOR AND DOWEL NOTES

1. WHERE NOTED IN THE PLANS AND DETAILS, ADHESIVE ANCHORS AND DOWELS SHALL BE INSTALLED WITH HILTI HY200 SAFE SET EPOXY IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.

2. ADHESIVE ANCHORS AND/OR DOWELS NOT NOTED IN THE PLANS AND DETAILS ARE NOT ALLOWED WITHOUT PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER OF RECORD.

3. UNLESS NOTED OTHERWISE, THE MINIMUM EMBEDMENT DEPTH OF ADHESIVE ANCHORS AND DOWELS SHALL BE AS FOLLOWS:

ANCHOR/DOWEL	EMBEDMENT
3/8" DIA. OR #3 BAR	4 1/2"
1/2" DIA. OR #4 BAR.	6"
5/8" DIA. OR #5 BAR	9 5/8"
3/4" DIA. OR #6 BAR	11 1/4"
7/8" DIA. OR #7 BAR	13 1/8"
1" DIA. OR #8 BAR	15"

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL DETAILING, FABRICATION AND INSTALLATION SHALL CONFORM TO THE STANDARDS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).

2. PROVIDE NEW DOMESTIC STRUCTURAL STEEL IN ACCORDANCE WITH THE FOLLOWING:

WIDE FLANGE SHAPES	ASTM A992
CHANNELS, PLATES AND ANGLES	ASTM A36
STEEL TUBE	ASTM A500, GRADE B
STEEL PIPE	ASTM A53 (TYPES E OR S), GRADE B

3. THE DETAILER SHALL DESIGN ALL CONNECTIONS TO RESIST FIFTY (50) PERCENT OF THE ALLOWABLE SHEAR CAPACITY OF THE BEAM, UNLESS NOTED OTHERWISE.

4. CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS SHALL BE 3/4 INCH DIAMETER ASTM A325-N BOLTS, UNLESS NOTED OTHERWISE.

5. ANCHOR BOLTS SHALL BE UNFINISHED THREADED FASTENERS THAT CONFORM TO ASTM F1554, GRADE 36 BOLTS AND NUTS WITH HEXAGONAL HEADS.

6. SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED EXCEPT AS SPECIFICALLY INDICATED IN STRUCTURAL DRAWINGS.

7. ERECT ALL STEEL BEAMS WITH NATURAL OR SPECIFIED CAMBER UP.

8. UNLESS NOTED OTHERWISE, HOT DIP GALVANIZE ALL STRUCTURAL STEEL MEMBERS AND EMBEDS EXPOSED TO WEATHER OR SOIL AND WHERE INDICATED ON DRAWINGS. GALVANIZING SHALL CONFORM TO ASTM A123.

9. TOUCH UP FIELD WELDS ON GALVANIZED ITEMS WITH PAINT CONFORMING TO TT-P-641.

10. ALL STAIRS, LANDINGS, HANDRAILS AND SUPPORTS SHALL BE DESIGNED BY THE STAIR MANUFACTURER. THE MINIMUM DESIGN LIVE LOAD FOR STAIRS AND ACCESSORIES SHALL BE ONE HUNDRED (100) POUNDS PER SQUARE FOOT. THE MINIMUM DESIGN LIVE LOAD FOR THE HANDRAILS SHALL BE (FIFTY) 50 POUNDS PER LINEAR FOOT OR 200 POUNDS APPLIED AT ANY POINT ALONG THE TOP OF THE HANDRAIL. CONTRACTOR SHALL SUBMIT COMPLETE DESIGN CALCULATIONS AND SHOP DRAWINGS. SUBMITTALS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT.

11. DO NOT ATTACH EXTERIOR WALL ELEMENTS TO STEEL FRAMING UNTIL ALL DECKING HAS BEEN ATTACHED TO FRAME AND STRUCTURAL BRACING IS IN PLACE (OR ADEQUATE TEMPORARY BRACING HAS BEEN INSTALLED). EXTERIOR WALL ELEMENTS ATTACHING TO STEEL FRAMING SHALL HAVE CONNECTIONS WHICH ALLOW FOR BOTH HORIZONTAL AND VERTICAL ADJUSTMENT TO COMPENSATE FOR MEMBER ROTATION AND DEFLECTION.

WELDING NOTES

1. WELDING OF STRUCTURAL STEEL SHALL CONFORM TO AWS D1.1. USE E70XX ELECTRODES FOR FIELD AND SHOP WELDS. USE ONLY LOW-HYDROGEN ELECTRODES ON ASTM A242, A514, A572 AND A588 STEEL.

2. WELDS NOT INDICATED IN DRAWINGS SHALL BE MINIMUM SIZE CONTINUOUS FILLET WELD IN ACCORDANCE WITH AWS D1.1. FILLET WELDS SHALL BE CONTINUOUS, UNLESS NOTED OTHERWISE.

3. PROVIDE FILLET WELDS AT ALL CONTACT JOINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE CAPACITY OF THE SMALLER MEMBER AT THE JOINT, UNLESS NOTED OTHERWISE.

4. ALL GROOVE WELDS SHALL BE FULL PENETRATION, UNLESS NOTED OTHERWISE.

5. AUTOMATICALLY END WELD HEADED STUDS AND DEFORMED BARS WHERE INDICATED ON DRAWINGS. STUDS SHALL CONFORM TO ASTM A108.

STEEL JOIST NOTES

1. DESIGN, DETAILING, FABRICATION AND INSTALLATION OF STEEL JOISTS AND BRIDGING SHALL CONFORM TO THE STANDARDS OF THE STEEL JOIST INSTITUTE (SJI).

2. UNLESS NOTED OTHERWISE, DESIGN STEEL ROOF JOISTS FOR FIFTEEN (15) PSF NET UPLIFT NORMAL TO ROOF SURFACE.

3. ATTACH CONCENTRATED LOADS TO STEEL JOISTS AT JOIST PANEL POINTS OR PROVIDE ADDITIONAL CHORD BRACING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

4. WHERE JOIST BOTTOM CHORD EXTENSIONS ARE REQUIRED, DO NOT ATTACH TO COLUMNS, BEAMS OR WALLS, UNLESS NOTED OTHERWISE.

STEEL DECK NOTES

1. ALL STEEL DECK DETAILING, FABRICATION AND INSTALLATION SHALL CONFORM TO THE STANDARDS OF THE STEEL DECK INSTITUTE (SDI).

2. STEEL DECK SHALL BE INSTALLED CONTINUOUSLY ACROSS THREE OR MORE SPANS. DECKING SHALL BE ATTACHED TO STRUCTURAL MEMBERS IMMEDIATELY AFTER ALIGNMENT.

3. ROOF DECK SHALL BE 1.5B, 22 GAGE PAINTED STEEL DECK AS MANUFACTURED BY VULCRAFT OR APPROVED SUBSTITUTE. UNLESS NOTED OTHERWISE, FASTEN DECK TO SUPPORTING MEMBERS WITH 5/8 INCH PUDDLE WELDS IN A 36/4 PATTERN WITH THREE (3) #10 TEK SCREW SIDELAP FASTENERS PER SPAN TO RESIST A NET UPLIFT OF FIFTEEN (15) PSF AND A MINIMUM DIAPHRAGM SHEAR VALUE OF 280 PLF.

REINFORCED CONCRETE MASONRY NOTES

1. REINFORCED CONCRETE MASONRY WALL CONSTRUCTION HAS BEEN DESIGNED FOR A MINIMUM COMPRESSION STRENGTH (f'm) OF 1,500 PSI. THIS VALUE SHALL BE VERIFIED IN ACCORDANCE WITH NCMA TR 75B, "SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF LOAD-BEARING CONCRETE MASONRY."

2. CONCRETE BLOCK SHALL BE ASTM C90 LIGHT-WEIGHT UNITS OF EIGHT (8) INCH NOMINAL THICKNESS WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI ON THE NET AREA OF THE BLOCK.

3. MORTAR SHALL BE TYPE "M" OR "S" IN ACCORDANCE WITH ASTM C270 AND SHALL HAVE A TWENTY-EIGHT (28) DAY COMPRESSIVE STRENGTH OF 2,500 PSI OR 1,800 PSI, RESPECTIVELY. AGGREGATES FOR MORTAR SHALL CONFORM TO ASTM C144.

4. GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8 INCH AND A 28-DAY COMPRESSIVE STRENGTH OF 2,000 PSI. AGGREGATES FOR GROUT SHALL CONFORM TO ASTM C404.

5. LAP SPLICE LENGTH FOR CONTINUOUS DEFORMED BAR REINFORCEMENT IN CONCRETE MASONRY CONSTRUCTION SHALL BE AS FOLLOWS:

#3 BARS	19 INCHES MINIMUM
#4 BARS	25 INCHES MINIMUM
#5 BARS	31 INCHES MINIMUM
#6 BARS	57 INCHES MINIMUM

6. ALL CELLS CONTAINING REINFORCING BARS, BOLTS OR OTHER METAL FABRICATIONS SHALL BE GROUTED SOLID. ANY CELLS AT OR BELOW FINISHED GRADE SHALL BE GROUTED SOLID.

7. REINFORCED CONCRETE MASONRY CONSTRUCTION SHALL BE RUNNING BOND, UNLESS NOTED OTHERWISE.

STRUCTURAL ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS ARE REFERENCED IN THE STRUCTURAL DRAWINGS. PLEASE CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR ANY CLARIFICATION, PRIOR TO FABRICATION.

ACI	AMERICAN CONCRETE INSTITUTE
ADD'L	ADDITIONAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION (ENGINEERED WOOD ASSOCIATION)
ARCH'L	ARCHITECTURAL, ARCHITECT
ASS'Y	ASSEMBLY
ASTM	ASTM INTERNATIONAL (FORMERLY AMERICAN SOCIETY FOR TESTING AND MATERIALS)
B/	BOTTOM OF
B/BEAM	BOTTOM OF BEAM
BLDG.	BUILDING
BOT.	BOTTOM
BRG.	BEARING
C.L.	CENTERLINE
CLG.	CEILING
CMU	CONCRETE MASONRY UNIT(S)
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
CONST.	CONSTRUCTION
COORD.	COORDINATE
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
DB	DROP BEAM
D.B.A.	DEFORMED BAR ANCHOR
DFL	DOUGLAS FIR/LARCH
DIA.	DIAMETER
DIM.	DIMENSION
DL	DEAD LOAD
DTL	DETAIL
DWL	DOWEL
EL.	ELEVATION
EMBED.	EMBEDMENT
EQ.	EQUAL
EXP.	EXPANSION
FB	FLUSH BEAM
F/FLOOR	FINISHED FLOOR
FLR.	FLOOR
FTG.	FOOTING
GALV.	GALVANIZED
GYP.	GYPSUM
HORIZ.	HORIZONTAL
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
LBS	POUNDS
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSL	LAMINATED STRAND LUMBER
LT. GAGE	LIGHT GAGE
LVL	LEVEL, LAMINATED VENEER LUMBER
MAT'L	MATERIAL
MAX.	MAXIMUM
MECH'L	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
NDS	NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPNG.	OPENING
OPP.	OPPOSITE
P.E.M.B.	PRE-ENGINEERED METAL BUILDING
PL.	PLATE
PLF	POUNDS PER LINEAR FOOT
PREFAB.	PRE-FABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
P.T.	POST-TENSIONED
R	REMAINING
REF.	REFERENCE
REINF.	REINFORCE, REINFORCED
REQ'D	REQUIRED
REV.	REVISION
RTU	ROOF TOP UNIT
SCHED.	SCHEDULE(D)
SIM.	SIMILAR
SJI	STEEL JOIST INSTITUTE
SPA.	SPACE(S), SPACED
SQ.	SQUARE
STD.	STANDARD
STIRR.	STIRRUP(S)
SYP	SOUTHERN PINE
T/	TOP OF
T/CONC.	TOP OF CONC
T/FOOTING	TOP OF FOOTING
T/METAL	TOP OF METAL
T/PANEL	TOP OF PANEL
T/PARAPET	TOP OF PARAPET
T/PIER	TOP OF PIER
T/PILECAP	TOP OF PILECAP
T/SHEATHING	TOP OF SHEATHING
T/SLAB	TOP OF SLAB
T/STEEL	TOP OF STEEL
T/WALL	TOP OF WALL
TYP.	TYPICAL

CONCRETE REINFORCING LAP SPLICE SCHEDULE

BAR SIZE	LAP
3	1'-6"
4	2'-0"
5	2'-6"
6	3'-0"
7	4'-2"
8	4'-8"
9	5'-4"
10	6'-0"
11	6'-8"

01 SCHEDULE
NO SCALE

CONCRETE DOWEL SCHEDULE

A
B
C

MARK	SIZE	A	B	C
DWL. A	#4	2'-6"	1'-0"	-
DWL. B	#5	2'-9"	0'-8"	-
DWL. C	#3	1'-6"	1'-6"	-
DWL. D	#5	2'-0"	1'-0"	-
DWL. E	#4	2'-0"	AS REQ'D	-
DWL. F	#4	AS REQ'D	0'-8"	-
DWL. G	#4	2'-6"	0'-8"	0'-8"

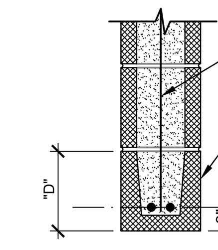
NOTES:

1. SCHEDULED DOWELS ARE MARKED "DWL." ON THE SECTIONS AND DETAILS.

2. DOWEL SPACING TO BE THE SAME AS VERTICAL BEAM OR WALL REINFORCEMENT, UNLESS NOTED OTHERWISE.

3. STRAIGHT BARS SHALL BE PLACED WITH ONE HALF OF BAR LENGTH ON EACH SIDE OF COLD JOINT, UNLESS NOTED OTHERWISE.

02 SCHEDULE
NO SCALE



TYPE "A" - CMU LINTEL BLOCK

TYPICAL STEEL LINTEL SCHEDULE FOR OPENINGS IN MASONRY VENEER

MAXIMUM SPAN	SIZE	MINIMUM BEARING
3'-0"	L3 1/2x3 1/2x3/8	8"
5'-0"	L4x4x3/8	8"
8'-0"	L5x3 1/2x3/8 LLV	12"
10'-0"	L6x4x3/8 LLV	12"

NOTES:

1. CONTACT ENGINEER OF RECORD FOR OPENINGS LARGER THAN 10'-0"

2. ALL LINTELS IN EXTERIOR WALLS SHALL BE PROTECTED WITH PAINT OR HOT DIP GALVANIZING CONFORMING TO ASTM A123.

CONCRETE MASONRY LINTEL SCHEDULE

DEPTH, "D"	REINF.	MAXIMUM OPENING
16"	2-#5 CONT.	4'-0"
24"	2-#6 CONT.	8'-0"

NOTES:

1. EXTEND BEAMS 8" BEYOND FACE OF OPENING.

2. VERTICAL CELLS ADJACENT TO OPENINGS SHALL BE REINFORCED PER TYP. WALL REINF. AND GROUTED SOLID - REF. STRUCTURAL NOTES.

03 SCHEDULE
NO SCALE

04 SCHEDULE
NO SCALE

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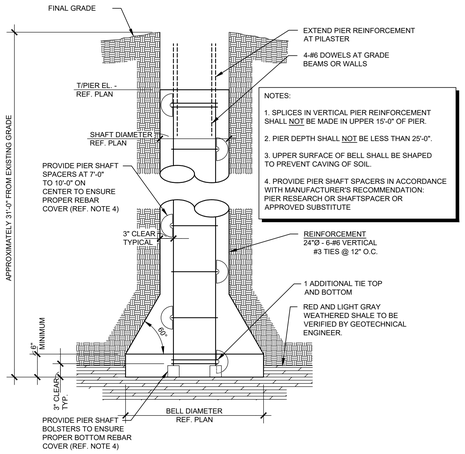
ISSUE DATE: 3.05.2018

REVISION	DESCRIPTION	DATE

HMBA PROJECT NUMBER: 06113.00

STRUCTURAL NOTES

S-101



NOTES:

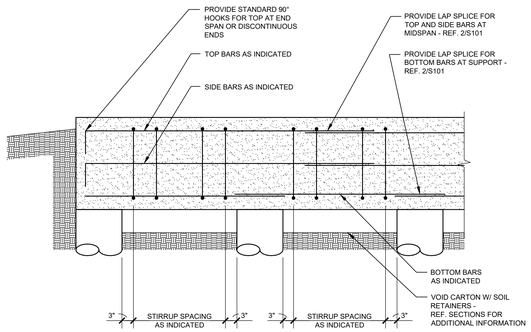
1. SPLICES IN VERTICAL PIER REINFORCEMENT SHALL NOT BE MADE IN UPPER 15'-0" OF PIER.

2. PIER DEPTH SHALL NOT BE LESS THAN 25'-0".

3. UPPER SURFACE OF BELL SHALL BE SHAPED TO PREVENT CAVING OF SOIL.

4. PROVIDE PIER SHAFT SPACERS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION: PIER RESEARCH OR SHAFTSPACER OR APPROVED SUBSTITUTE

01 **TYPICAL BELLED PIER DETAIL**
NO SCALE



02 **TYPICAL UNSCHEDULED CONCRETE BEAM REINFORCEMENT DETAIL**
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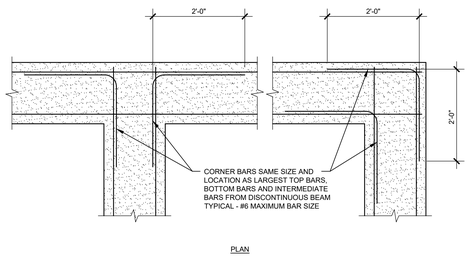
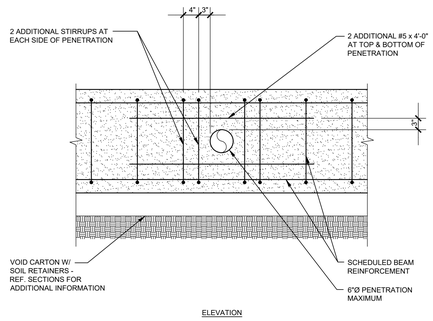
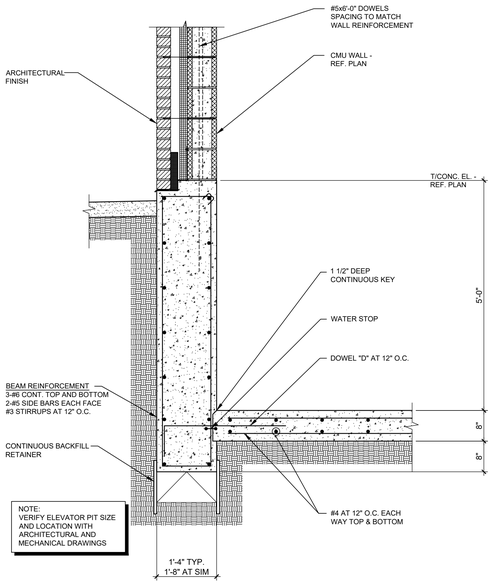


03 **TYPICAL CORNER BARS AT CONCRETE WALL, BEAM AND FOOTING INTERSECTION DETAIL**
NO SCALE

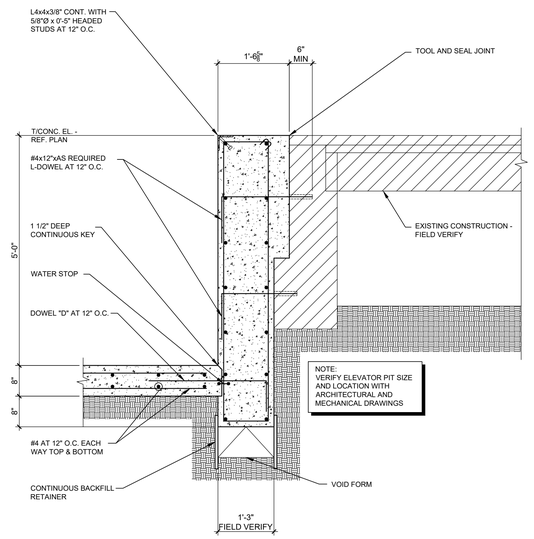


04 **TYPICAL GRADE BEAM PENETRATION DETAIL**
NO SCALE



NOTE:
VERIFY ELEVATOR PIT SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS

05 **TYPICAL EXTERIOR SECTION**
NO SCALE



NOTE:
VERIFY ELEVATOR PIT SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS

06 **TYPICAL EXTERIOR SECTION**
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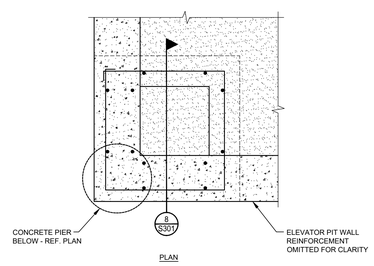
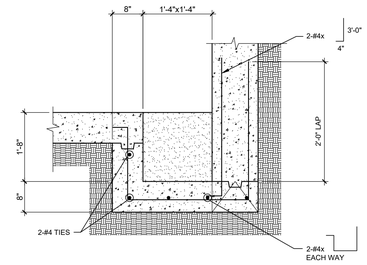


07 **TYPICAL ELEVATOR SUMP PIT DETAIL**
NO SCALE



08 **TYPICAL ELEVATOR SUMP PIT DETAIL**
NO SCALE

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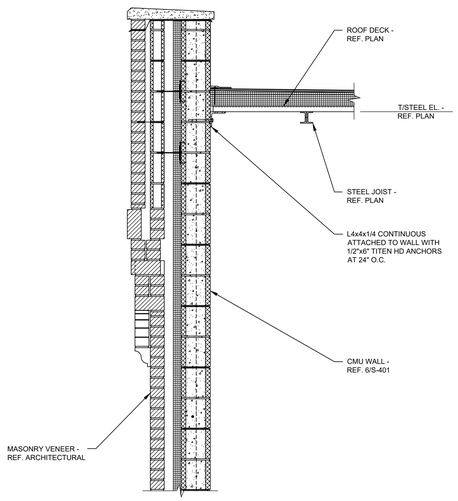
S-301



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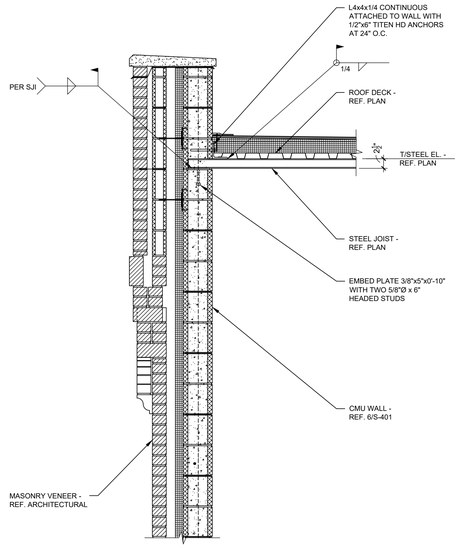

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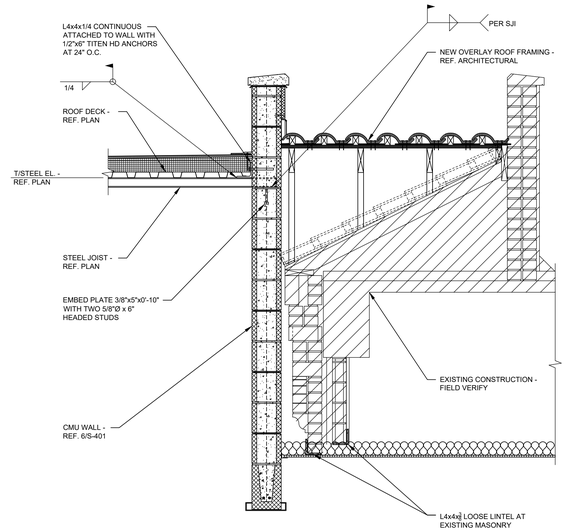

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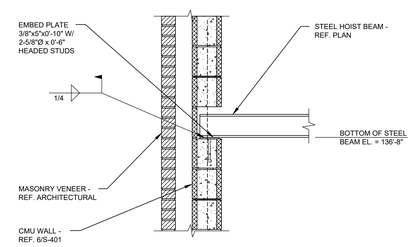

04 **TYPICAL BEAM TO CMU WALL DETAIL**
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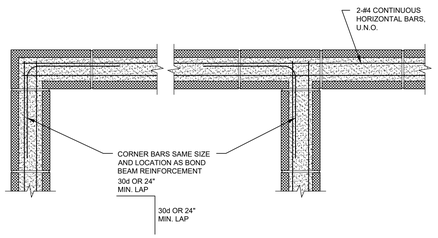
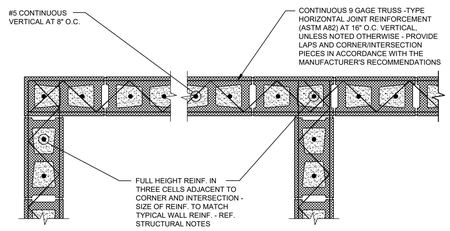


NOTES:
1. REFER TO 2/S102 FOR ADDITIONAL INFORMATION.

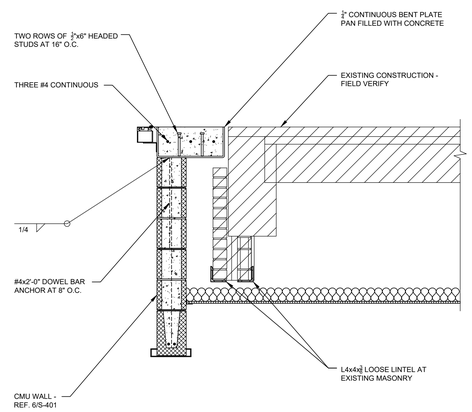
2. UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS 8" DEEP BOND BEAM AT THE TOP AND AT 8'-0", 16'-0", AND 24'-0" ABOVE FINISHED FLOOR IN ALL WALLS.

05 **TYPICAL CMU WALL BOND BEAM REINFORCEMENT DETAIL**
NO SCALE



NOTE: REF. REINFORCED CONCRETE MASONRY NOTES FOR ADDITIONAL INFORMATION.

06 **TYPICAL CMU WALL REINFORCEMENT DETAIL**
NO SCALE



07 **SECTION**
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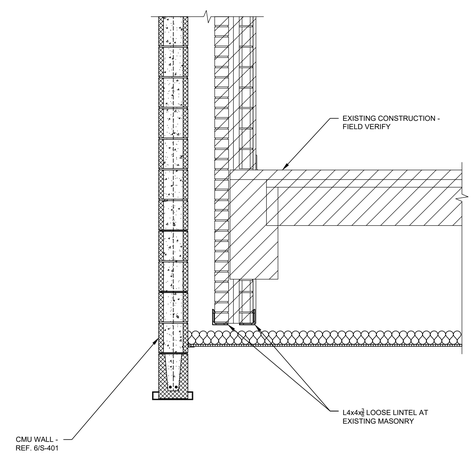

08 **SECTION**
NO SCALE

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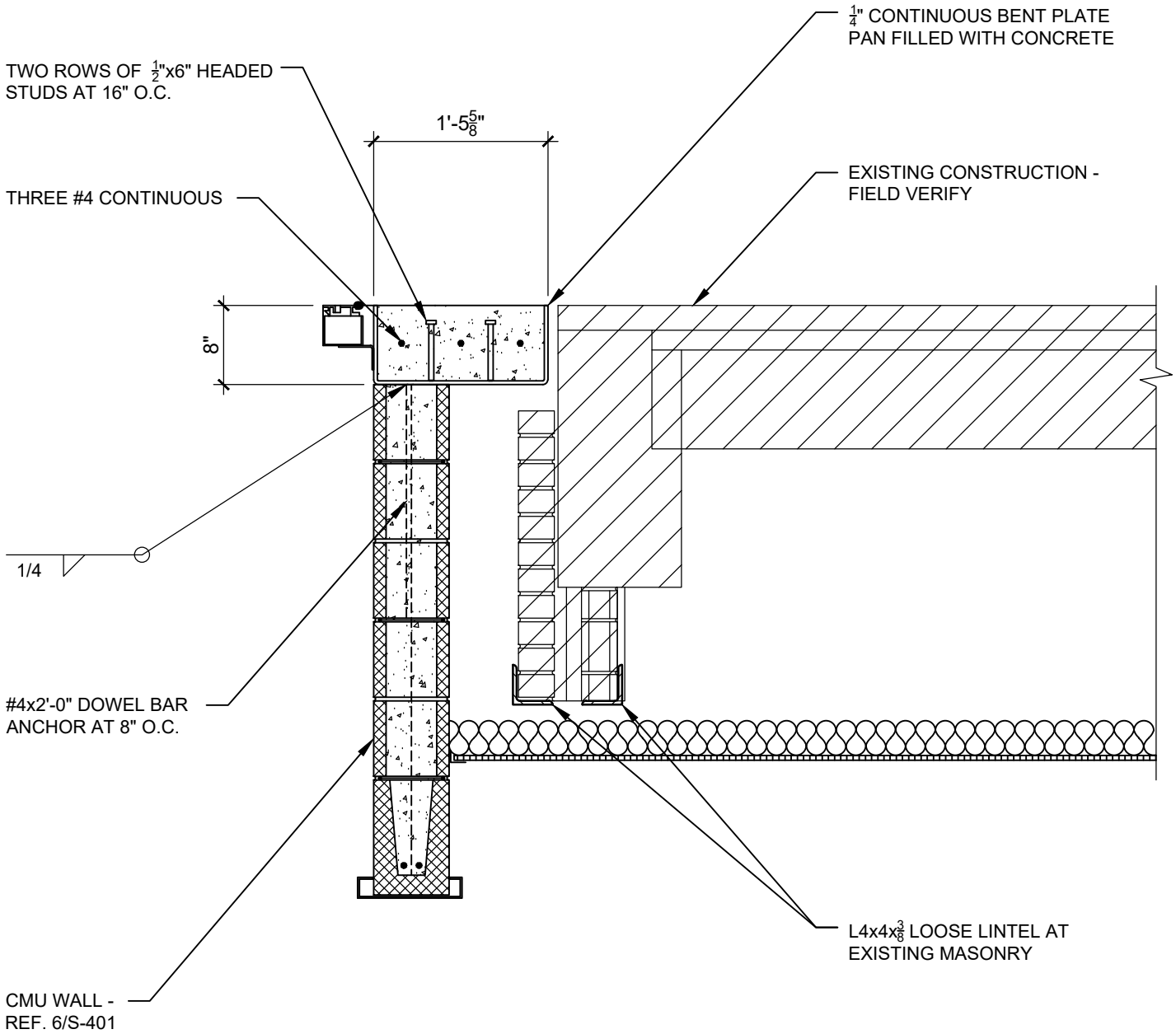
FIRST FLOOR PLAN

S-401

NOTE: THE BENT PL. IS ONLY REQUIRED AT THE WIDTH OF THE ELEVATOR DOOR AT EACH FLR.



07 **SECTION**

NO SCALE

DETAIL 07/S-401

MECHANICAL SYMBOLS AND ABBREVIATIONS

NOTE: ALL SYMBOLS AND ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS

GENERAL NOTES

1. PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALL PERMITS, INSPECTIONS, LICENSES AND FEES. FURNISH ALL LABOR, EQUIPMENT, SUPPLIES AND MATERIALS NECESSARY TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS.

2. THE DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPES, FIXTURES, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DO NOT SCALE THE DRAWINGS FOR DIMENSIONS. TAKE ALL DIMENSIONS, MEASUREMENTS, EQUIPMENT LOCATIONS, LEVELS, ETC FROM THE ARCHITECTURAL DRAWINGS AND FROM THE EQUIPMENT TO BE FURNISHED. PIPING MAY BE RELOCATED OR OFFSET FOR PROPER CLEARANCES OR TO AVOID CONFLICTS WITH OTHER TRADES, THE DESIGN INTENT (I.E. PITCHES, VELOCITIES, PRESSURE DROPS, VOLTAGE DROPS, ETC) CANNOT BE GREATLY ALTERED WITHOUT THE APPROVAL OF THE ARCHITECT. THE COST OF THESE DEVIATIONS TO AVOID INTERFERENCE'S SHALL BE PART OF THE ORIGINAL CONTRACT BID.

3. CONFER AND COOPERATE WITH ALL OTHER TRADES TO COORDINATE THEIR WORK. COORDINATION SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO MATERIALS AND EQUIPMENT ROUTED IN CEILING AND WALL CAVITIES, EQUIPMENT ARRANGEMENT IN MECHANICAL SPACES, INCLUDING EQUIPMENT CLEARANCE REQUIREMENTS, ELEVATIONS AND DIMENSIONS OF STRUCTURAL MEMBERS AND OPENINGS, ETC. NOTIFY THE ARCHITECT OF ANY CONFLICTS.

4. BASE FINAL INSTALLATION OF MATERIALS AND EQUIPMENT ON ACTUAL DIMENSIONS AND CONDITIONS AT THE PROJECT SITE. FIELD MEASURE FOR MATERIALS AND EQUIPMENT REQUIRING EXACT FIT. NO EXTRAS WILL BE GIVEN FOR THE CONTRACTORS FAILURE TO FIELD COORDINATE.

5. THE OWNER OR ENGINEER ARE NOT RESPONSIBLE FOR SAFETY PRECAUTIONS OR FOR MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THE WORK.

6. LOCATE ALL EQUIPMENT THAT MUST BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS. EQUIPMENT SHALL INCLUDE (BUT NOT LIMITED TO) VALVES, MOTORS, CONTROLLERS, SWITCHGEAR, AND DRAIN POINTS IF REQUIRED FOR BETTER ACCESSIBILITY. FURNISH ACCESS DOORS FOR THIS PURPOSE. MINOR DEVIATIONS FROM THE DRAWINGS MAY BE ALLOWED TO PROVIDE FOR BETTER ACCESSIBILITY. ANY CHANGES SHALL BE APPROVED BY THE ARCHITECT PRIOR TO MAKING THE CHANGE.

7. PROVIDE ACCESS DOORS, WALL OPENINGS, ROOF OPENINGS OR ANY OTHER CONSTRUCTION REQUIREMENT NEEDED TO ACCOMMODATE THE MECHANICAL EQUIPMENT. LOCATIONS OF THESE OPENINGS SHALL BE SUBMITTED IN SUFFICIENT TIME TO BE INSTALLED IN THE NORMAL COURSE OF WORK. ALL ACCESS DOORS SHALL HAVE GASKETS AND BE RATED FOR 10"W.G.

8. COORDINATE ELECTRICAL REQUIREMENTS OF APPROVED EQUIPMENT WITH ALL TRADES PRIOR TO THE PURCHASE AND INSTALLATION OF ANY ELECTRICAL GEAR OR CONDUIT.

9. ALL DIMENSIONS SHOWN ON THE DRAWINGS FOR DUCTWORK ARE NET INSIDE CLEAR DIMENSIONS. FOR RECTANGULAR DUCT, THE FIRST FIGURE OF THE DUCT SIZE INDICATES THE DIMENSION OF THE FACE SHOWN. VERIFY THAT THE DUCTWORK SPECIFIED WILL FIT IN THE SPACE AVAILABLE USING THE ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS AS REFERENCE PRIOR TO FABRICATION AND INSTALLATION. ROUND DUCT OF EQUAL NET INSIDE CLEAR AREA MAY BE USED IN LIEU OF RECTANGULAR DUCT.

10. PROVIDE TURNING VANES ON ALL RECTANGULAR SUPPLY, EXHAUST AND RETURN DUCTWORK INCLUDING THE TOP AND BOTTOM OF VERTICAL DUCTS.

11. PROVIDE A HEAVY DUTY, LOCKING QUADRANT VOLUME DAMPER AT THE TAP OF EACH RUN-OUT TO DIFFUSERS FOR BALANCING PURPOSES, UNLESS OTHERWISE INDICATED. THE RUN-OUT DUCT SIZE IS THE SAME SIZE AS THE DIFFUSER OR GRILLE NECK SIZE UNLESS OTHERWISE INDICATED.

12. ALL DUCTWORK SHALL BE SHEET METAL FABRICATED IN ACCORDANCE WITH SMACNA STANDARDS. MEDIUM PRESSURE DUCTWORK SHALL BE +/- 3" W.G. WITH SEAL CLASS "A" (FROM AHUs TO VAV BOXES). ALL LOW PRESSURE DUCTWORK SHALL BE +/-1" W.G WITH SEAL CLASS "A" (FROM VAV BOXES TO DIFFUSERS). ALL ROUND DUCTWORK SHALL BE SPIRAL TYPE.

13. PROVIDE VIBRATION ISOLATORS FOR MOTOR DRIVEN EQUIPMENT UNLESS NOTED OTHERWISE. PROVIDE ISOLATION AS INDICATED OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

14. SOME PIPES AND DUCTS SHOWN ON EACH FLOOR PLAN MAY BE SHOWN WITH AN OFFSET FOR CLARITY.

15. SEAL ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS WITH AN APPROVED FIRE PROOFING MATERIAL.

16. EXPAND OR REDUCE DUCTS AT EQUIPMENT CONNECTIONS BASED ON THE EQUIPMENT PURCHASED, WITH TRANSITIONS NOT TO EXCEED 30 DEGREES. SIZES SHOWN ON SCHEDULES, ETC. ARE FOR GUIDANCE ONLY. ASPECT RATIO SHALL BE NO GREATER THAN 4:1, PER SMACNA'S GUIDELINES.

17. ALL DUCTS WITH A DIMENSION GREATER THAN 12" PASSING THRU A NONRATED WALL SHALL HAVE THE OPENING FRAMED IN WITH METAL STUDS. COORDINATE OPENING SIZE AND LOCATION WITH OTHER TRADES.

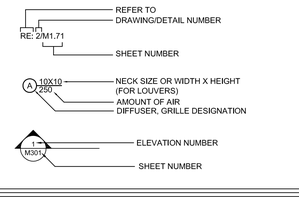
18. TEST AND BALANCE SHALL BE PERFORMED BY AN AABC LICENSED FIRM IN THE TESTING, ADJUSTING, AND BALANCING (TAB) BUSINESS FOR A MINIMUM OF 10 YEARS. AABC FIRM SHALL SUBMIT A REPORT TO THE ENGINEER OF RECORD INDICATING EQUIPMENT NAMEPLATE DATA, DESIGN PERFORMANCE, INITIAL TESTED PERFORMANCE, AND FINAL ADJUSTED PERFORMANCE. REPORT SHALL BE SUBMITTED IN A TIMELY FASHION PRIOR TO JOB CLOSE-OUT. TAB SHALL BE PERFORMED ON ALL SYSTEMS SPECIFIED AS PART OF THIS CONTRACT. TAB FIRM SHALL PERFORM A FUNCTIONAL PERFORMANCE TEST OF THE SYSTEM BASED ON THE CONTRACT DOCUMENTS HEREIN SHALL AND RELAY ALL DISCREPANCIES AND OUTSTANDING CONSTRUCTION ITEMS RELATING TO THE MECHANICAL EQUIPMENT AND PERFORMANCE TO THE ENGINEER OF RECORD.

19. ALL RECTANGULAR DUCTWORK SHALL BE INTERNALLY LINED WITH JOHN-MANVILLE 1-1/2" THICK PERMACOAT LINACOUSTIC INSULATION (NO SUBSTITUTIONS). ALL ROUND DUCTWORK SHALL BE WRAPPED WITH JOHNS-MANVILLE 2" THICK MICRO-LITE DUCT WARP INSULATION

ABBREVIATIONS

AD	ACCESS DOOR	L	LENGTH
A/C	AIR CONDITIONING UNIT	LAT	LEAVING AIR TEMPERATURE
A/E	ARCHITECT/ENGINEER	LPC	LOW PRESSURE CONDENSATE
AFF	ABOVE FINISHED FLOOR	LPS	LOW PRESSURE STEAM
AFS	AIR FLOW SWITCH	LB	POUNDS
AHU	AIR HANDLING UNIT	LRA	LOCKED ROTOR AMPS
APPROX	APPROXIMATE	LWT	LEAVING WATER TEMPERATURE
BAS	BUILDING AUTOMATION SYSTEM	MAX	MAXIMUM
BHP	BRAKE HORSE POWER	MBH	1000 BRITISH THERMAL UNITS / HOUR
BTU	BRITISH THERMAL UNIT PER HOUR	MCA	MINIMUM CIRCUIT AMPACITY
C/A	COMBUSTION AIR	MFR	MANUFACTURER
CC	COOLING COIL	MIN	MINIMUM
CFH	CUBIC FEET PER HOUR	N/A	NOT APPLICABLE
CFM	CUBIC FEET PER MINUTE	N/O,N/C	NORMALLY OPEN, NORMALLY CLOSED
CLG	CEILING	O/A	OUTSIDE AIR/FRESH AIR
CU	CONDENSING UNIT	OBD	OPPOSED BLADE DAMPER
D	EQUIPMENT DRAIN	O/C	ON CENTER
DEG	DEGREES	PEF	PURGE EXHAUST FAN
DB	DRY BULB	PH	PHASE
DCS	DUST COLLECTOR SYSTEM	PROVIDE	FURNISH AND INSTALL
(E)	EXISTING	PRV	PRESSURE REDUCING VALVE
EAT	ENTERING AIR TEMPERATURE	PSI	POUNDS PER SQUARE INCH
E/A	EXHAUST AIR	R/A	RETURN AIR
EDH	ELECTRIC DUCT HEATER	RE:	REFERENCE, REFER
EF	EXHAUST FAN	RL	REFRIGERANT LIQUID
EQUIP	EQUIPMENT	RLA	RUNNING LOAD AMPS
EWT	ENTERING WATER TEMPERATURE	RM	ROOM
°F	DEGREES FAHRENHEIT	RPM	REVOLUTIONS PER MINUTE
FCU	FAN COIL UNIT	RS	REFRIGERANT SUCTION
FD	FIRE DAMPER	S/A	SUPPLY AIR
FLA	FULL LOAD AMPS	SD	SMOKE DETECTOR
FLR	FLOOR	SF	SQUARE FOOT, SUPPLY FAN
FPVAV	FAN POWERED VAV	SPECS	SPECIFICATIONS
FSD	FIRE SMOKE DAMPER	T, TSTAT	THERMOSTAT, ROOM SENSOR
FT,	FOOT, FEET	T/A	TRANSFER AIR
FT. WG	FEET WATER GAUGE	THRU	THROUGH
GA	U.S. GAUGE	TSP	TOTAL STATIC PRESSURE
GPM	GALLONS PER MINUTE	TSTAT	THERMOSTAT OR ROOM SENSOR
H	HEIGHT	TYP	TYPICAL
HP	HORSEPOWER	UL	UNDERWRITERS LABORATORIES, INC.
HPC	HIGH PRESSURE CONDENSATE	UH	UNIT HEATER
HPS	HIGH PRESSURE STEAM	V	VOLTS
HWR	HEATING WATER RETURN	VAV	VARIABLE AIR VOLUME
HWS	HEATING WATER SUPPLY	VEL	VELOCITY
HZ	HERTZ	VFD	VARIABLE FREQUENCY DRIVE
IN.	INCH, INCHES	W/	WITH
IN.WG	INCHES WATER GAUGE	WB	WET BULB
J-BOX	JUNCTION BOX	W/O	WITHOUT
kW	KILOWATT		

DRAWING/DETAIL REFERENCE



MISCELLANEOUS

1	DRAWING NOTE REFERENCE (I.E., NOTES BY SYMBOL)
	CONNECTION INTO EXISTING

SYMBOLS

SYMBOL	DESCRIPTION
20/20	ACOUSTICAL DUCT LINING (FIGURES SHOWN ARE INSIDE DUCT DIMENSIONS
20/20	SUPPLY AIR DUCT UP (POSITIVE PRESSURE)
20/20	RETURN, EXHAUST OR OUTSIDE AIR INTAKE DUCT UP (NEGATIVE PRESSURE)
20/20	SUPPLY AIR DUCT DOWN (POSITIVE PRESSURE)
20/20	RETURN, EXHAUST OR OUTSIDE AIR INTAKE DUCT DOWN (NEGATIVE PRESSURE)
18"Ø	ROUND DUCT UP
18"Ø	ROUND DUCT DOWN
	ARROW INDICATES DIRECTION OF AIR FLOW
UP	CHANGE OF ELEVATION, RISE(UP) OR DROP (DN) IN DIRECTION OF ARROW
AD	ACCESS DOOR, BOTTOM (UNLESS OTHERWISE NOTED) SIZE AS NOTED OR SPECIFIED
AD	ACCESS DOOR, SIDE, SIZE AS NOTED OR SPECIFIED
	RECTANGULAR DUCT SQUARE ELBOW WITH TURNING VANES
W, R=3W/2	RECTANGULAR DUCT RADIUS ELBOW
D, R=3D/2	ROUND DUCT RADIUS ELBOW
16/20, 20/20	TRANSITION CONCENTRIC UNLESS TOP LEVEL(TOP LVL) OR BOTTOM LEVEL(BOT LVL) IS NOTED
20/20, 16"Ø	TRANSITION, RECTANGULAR TO ROUND CONCENTRIC UNLESS TOP LEVEL (TOP LVL) OR BOTTOM LEVEL (BOT LVL) IS NOTED
	DUCT FLEXIBLE CONNECTION
	SOUND ATTENUATOR
	SQUARE CEILING DIFFUSER (SUPPLY) (4-WAY UNLESS OTHERWISE INDICATED)
	SQUARE CEILING GRILLE (RETURN OR EXHAUST)
T TS	THERMOSTAT (OR) TEMP SENSOR
	DUCT SPLITTER WITH DAMPER
M	MOTORIZED DAMPER
or	MANUAL VOLUME DAMPER
FD	FIRE DAMPER

AIR DEVICE SCHEDULE

MARK	SERVES	FACE SIZE	NECK SIZE	MOUNTING	TYPE	MANUFACTURER AND MODEL	REMARKS
A	EXHAUST	8" X 8"	6" X 6"	SURFACE	AEROBLADE	TITUS 272RL	1,2,3,4,7,9
B	SUPPLY/EXHAUST	24" X 24"	10" DIA.	LAY-IN	PLAQUE	TITUS OMNI-AA	1,2,3,5,6,7,8

1. UNITS SHALL BE FURNISHED WITH APPROPRIATE FRAMES, ETC. FOR MOUNTING IN RESPECTIVE CEILING/WALL TYPES AND CONDITIONS.
2. OFF-WHITE BAKED ENAMEL FINISH.
3. OR APPROVED EQUAL.
4. TRANSITION FROM BACK OF GRILLE TO DUCT SIZE SHOWN.
5. FOUR-WAY THROW UNLESS OTHERWISE NOTED.
6. 18" X 18" FACE SIZE, FOR 24" X 24" LAY-IN MODULE SIZE.
7. SOUND VALUES SHALL NOT EXCEED 30 NC (ROOM), UNLESS OTHERWISE NOTED.
8. PROVIDE FACTORY INSULATION BLANKET ON BACK SIDE OF DIFFUSER.
9. PROVIDE WITH TITUS BL-NECK OPPOSED BLADE DAMPER MODEL AG-15.

DUCTLESS SPLIT SYSTEM UNIT

MARK	FAN COIL UNIT									CONDENSING UNIT					COOLING PERFORMANCE DATA						REMARKS
	MOUNTING	UNIT CFM	O/A CFM	EXT. S.P.	H.P.	POWER CONNECTION				REF. TYPE	POWER CONNECTION				CAPACITY (MBH)		O.D. D.B. F.	ENTERING		MIN. SEER	
						V.	Ph.	MCA	MOCP		V.	Ph.	MCA	MOCP	TOTAL	SENS		D.B. F.	W.B. F.		
FCU/CU1-1	WALL	272	0	NA	1/20	120	1	SEE NOTE 4		R-410A	120	1	13.5	20	12.0	10.8	100	78	63	17.0	1,2,3,5
FCU/CU1-2	WALL	272	0	NA	1/20	120	1	SEE NOTE 4		R-410A	120	1	13.5	20	12.0	10.8	100	78	63	17.0	1,2,3,5
FCU/CU2-1	WALL	272	0	NA	1/20	120	1	SEE NOTE 4		R-410A	120	1	13.5	20	12.0	10.8	100	78	63	17.0	1,2,3,5
FCU/CU2-2	WALL	272	0	NA	1/20	120	1	SEE NOTE 4		R-410A	120	1	13.5	20	12.0	10.8	100	78	63	17.0	1,2,3,5
FCU/CU3-1	WALL	272	0	NA	1/20	120	1	SEE NOTE 4		R-410A	120	1	13.5	20	12.0	10.8	100	78	63	17.0	1,2,3,5

1. BASIS OF DESIGN IS LG FAN COIL - LSN120HXV, CONDENSING UNIT - LSU120HXV.
2. PROVIDE HARDWIRED LG WALL MOUNT THERMOSTAT AND LG CONDENSATE PUMP WITH MINIMUM 30" LIFT.
3. SIZE, ROUTE, INSULATE AND PROVIDE APPURTENANCES FOR DX PIPING SYSTEMS, PER MANUFACTURER RECOMMENDATIONS.
4. PROVIDE LG CONTROL/POWER WIRE AND USE FOR CONNECTING THE CONDENSING UNIT TO THE FAN COIL UNIT. FAN COIL IS POWERED FROM THE CONDENSING UNIT.
5. FOR LONG DX LINE RUNS, USE MANUFACTURER'S RECOMMENDED LONG LINE INSTALLATION GUIDELINES.

1

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ISSUE DATE: 03.05.2018

REVISION	DESCRIPTION	DATE
1	ADDENDUM #2	04/10/2018

HMBA PROJECT NUMBER: 06113.00

GENERAL NOTES AND SCHEDULES

M-001

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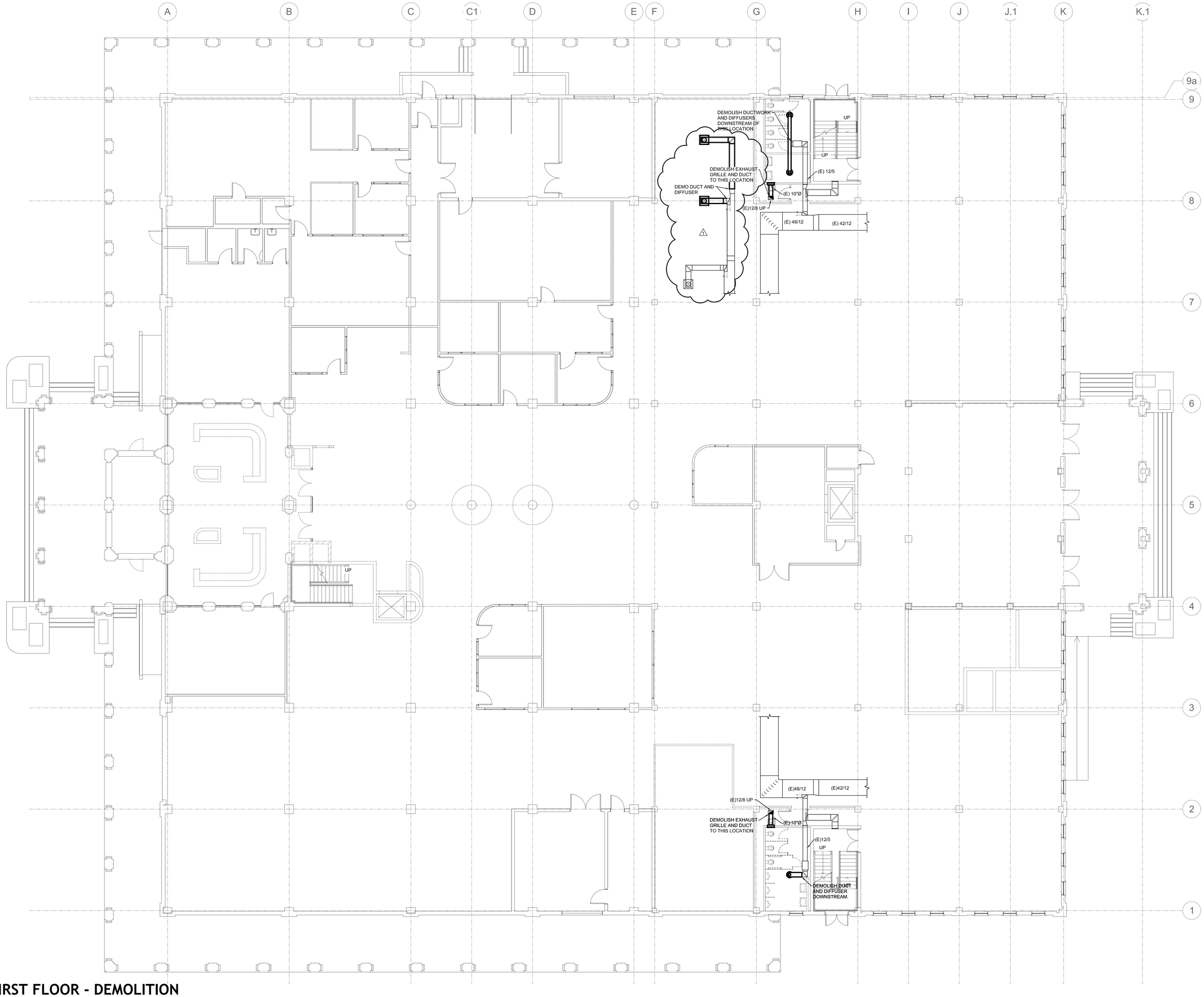

1 FIRST FLOOR - DEMOLITION

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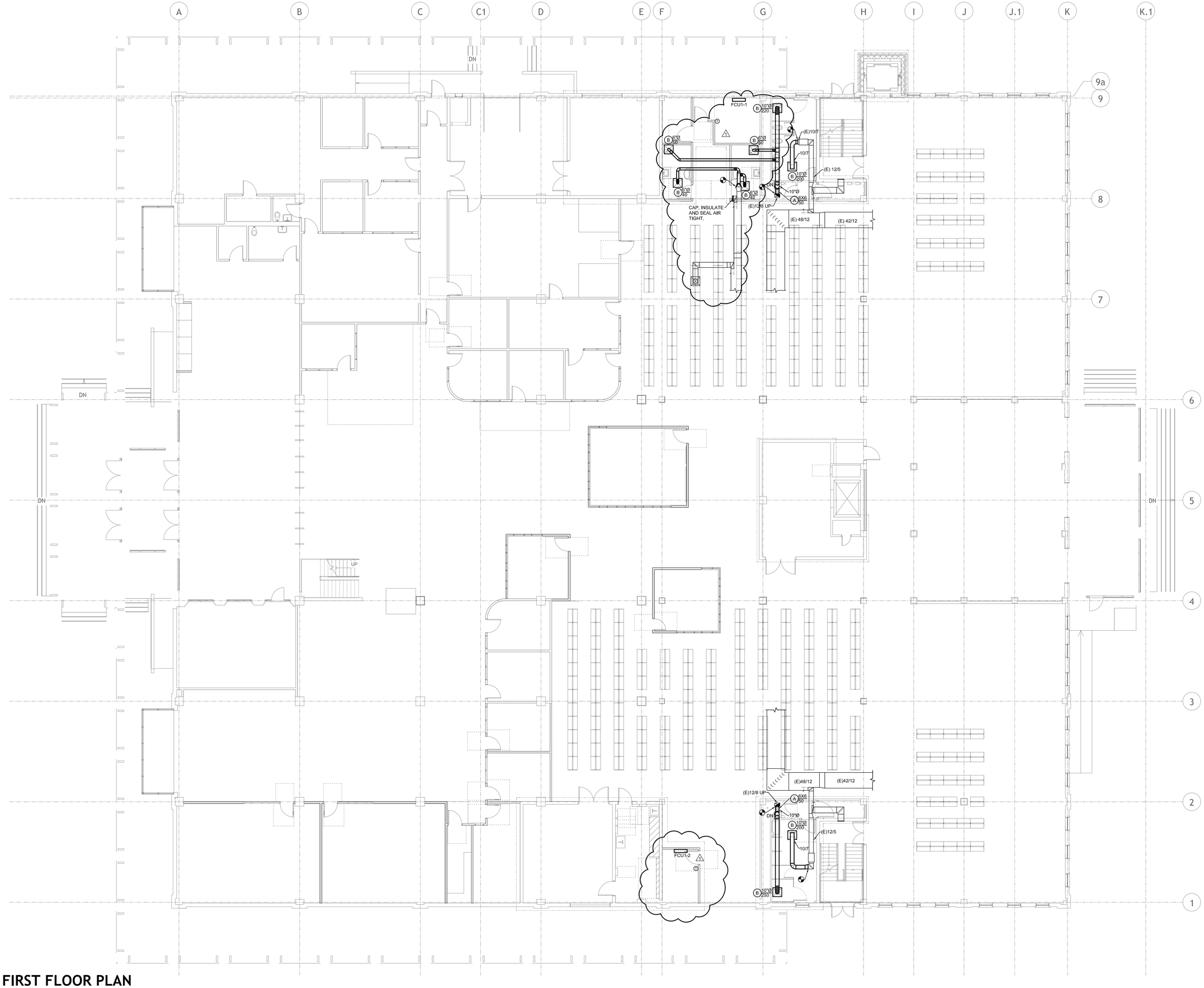
FIRST FLOOR - DEMOLITION

M-101



1 FIRST FLOOR PLAN
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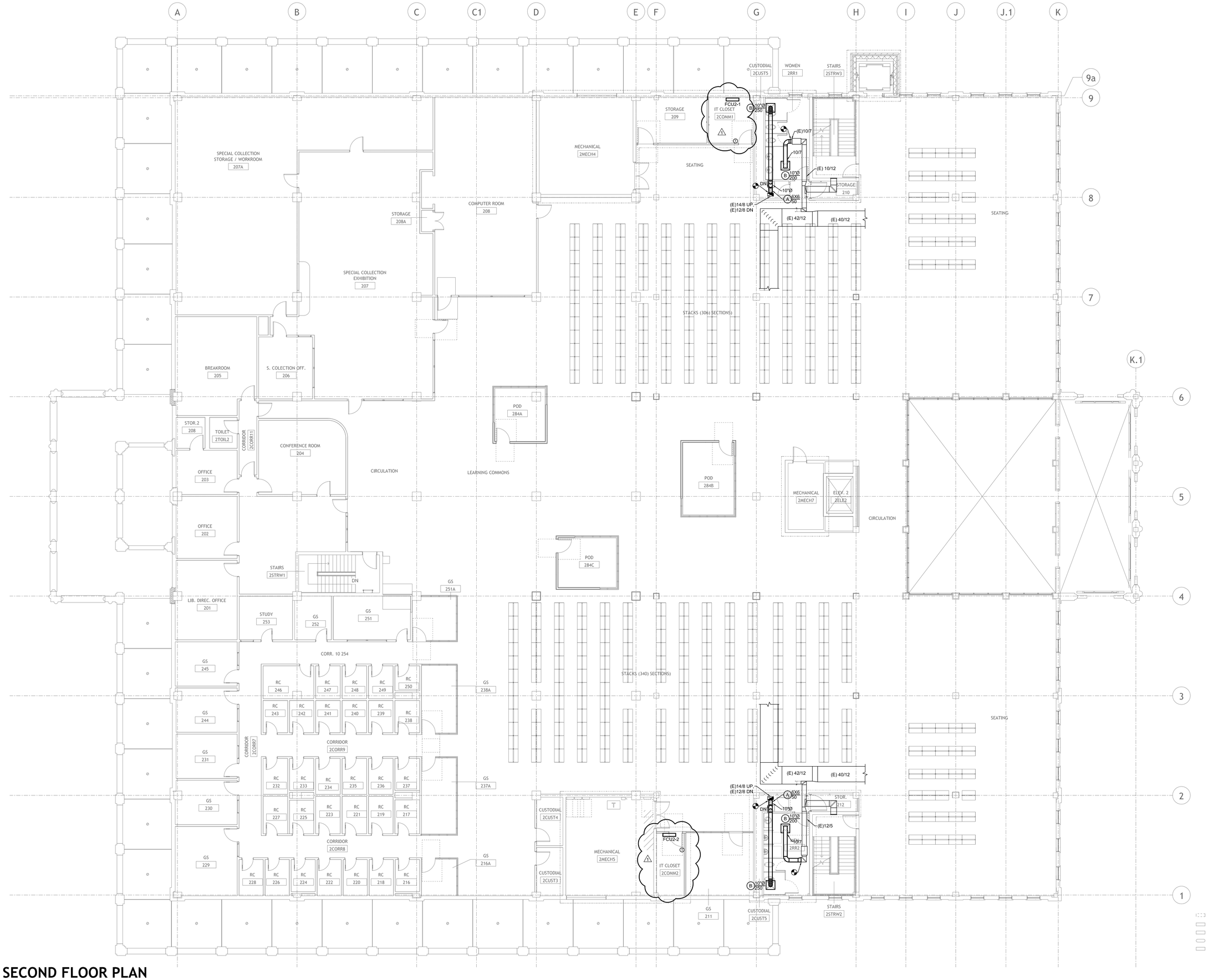
FIRST FLOOR PLAN

M-201



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ISSUE DATE: 01.29.2018

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1	ADDENDUM #2	04/10/2018

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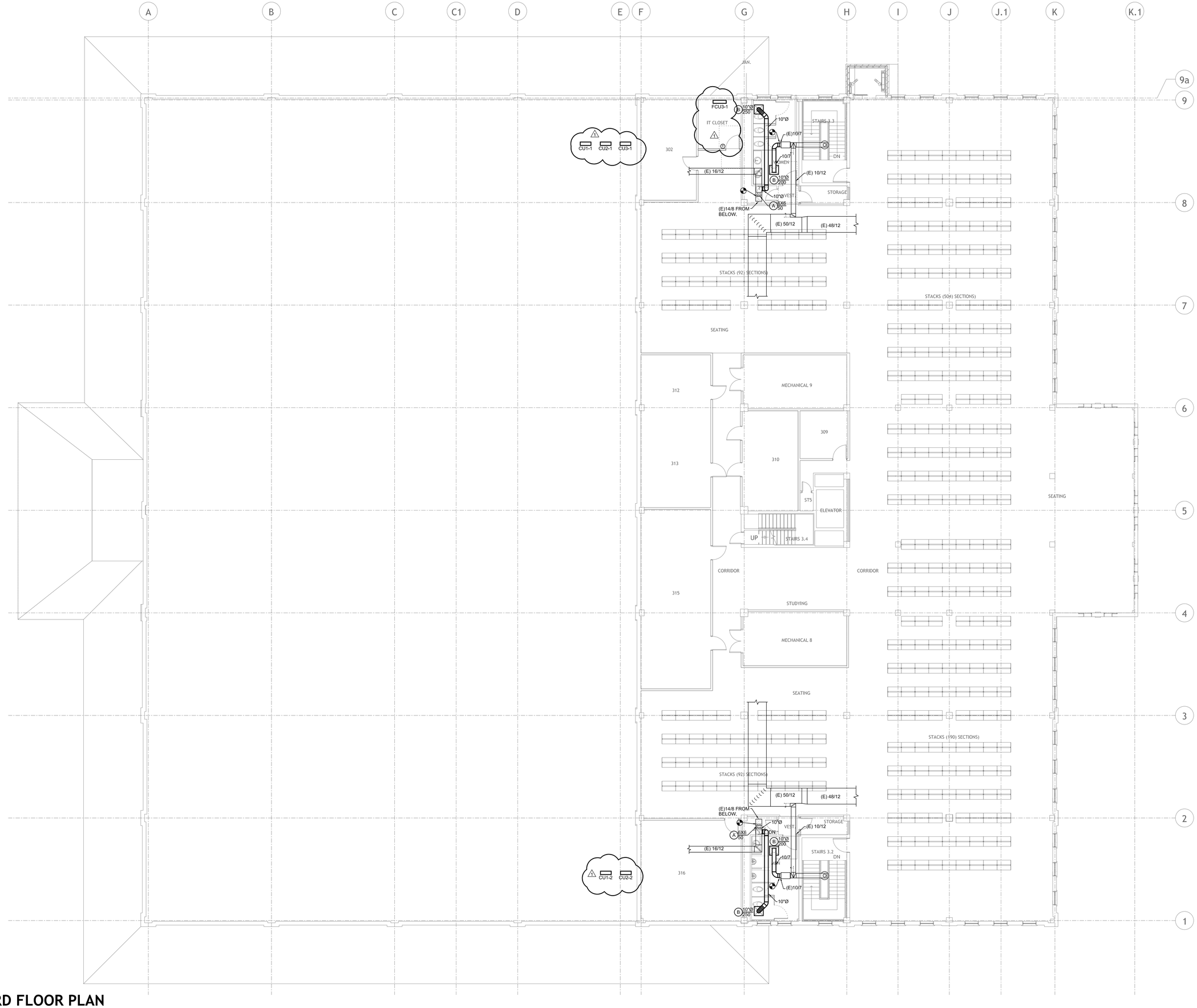
SECOND FLOOR PLAN

M-202



THIRD FLOOR PLAN

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SHEET SIZE = ARCH E1 30X42

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STATE OF TEXAS
04/10/2018
BRIAN D. RICHARDS
74703
LICENSED PROFESSIONAL ENGINEER

100.4.10.2018.17210

100% CD SUBMISSION PHASE 1

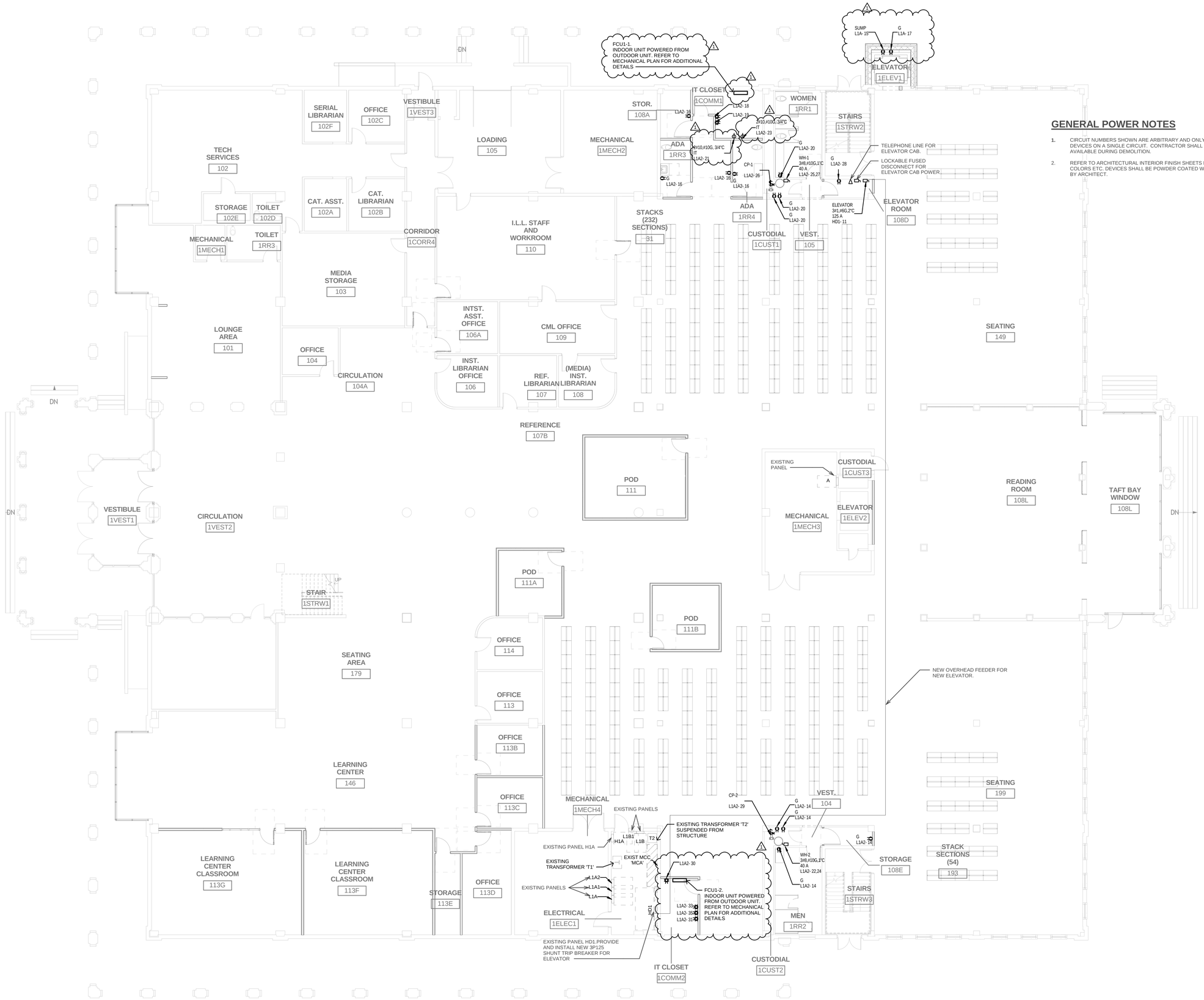
ISSUE DATE: 03.05.2018

REVISION	DESCRIPTION	DATE
1	ADDENDUM #2	04/10/2018

HMBA PROJECT NUMBER: 06113.00

THIRD FLOOR PLAN

M-203



1 ELECTRICAL FIRST FLOOR
1/8" = 1'-0"

GENERAL POWER NOTES

1. CIRCUIT NUMBERS SHOWN ARE ARBITRARY AND ONLY INDICATE GROUPING OF DEVICES ON A SINGLE CIRCUIT. CONTRACTOR SHALL USE EXISTING CIRCUITS MADE AVAILABLE DURING DEMOLITION.
2. REFER TO ARCHITECTURAL INTERIOR FINISH SHEETS FOR DEVICE AND DEVICE PLATE COLORS ETC. DEVICES SHALL BE POWDER COATED WITH CUSTOM COLOR SELECTED BY ARCHITECT.

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1	ADDENDUM 02	04.10.2018

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FIRST FLOOR POWER PLAN

E-101

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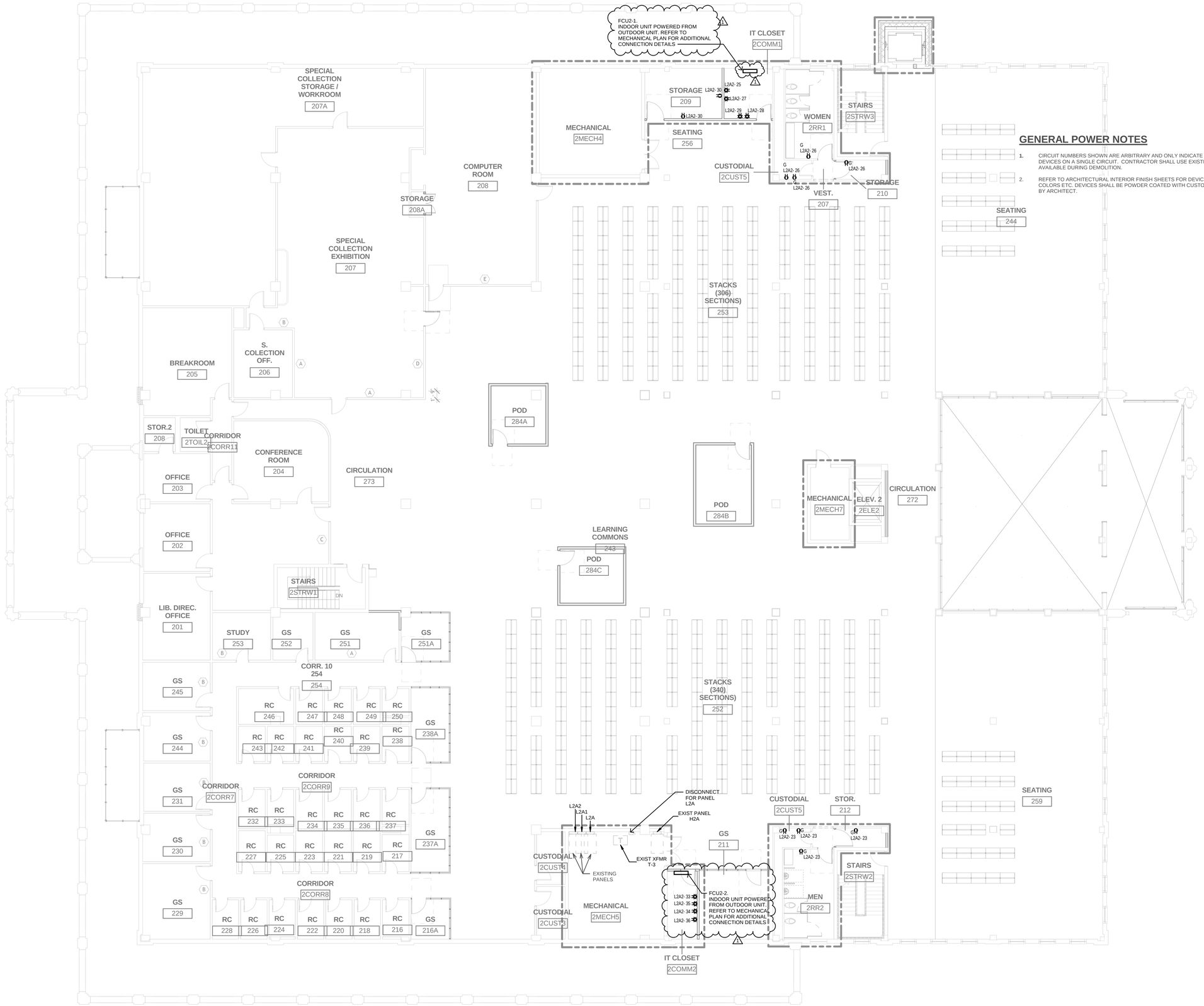

GENERAL POWER NOTES

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2. REFER TO ARCHITECTURAL INTERIOR FINISH SHEETS FOR DEVICE AND DEVICE PLATE COLORS ETC. DEVICES SHALL BE POWDER COATED WITH CUSTOM COLOR SELECTED BY ARCHITECT.

1 ELECTRICAL SECOND FLOOR
1/8" = 1'-0"

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SECOND FLOOR POWER PLAN

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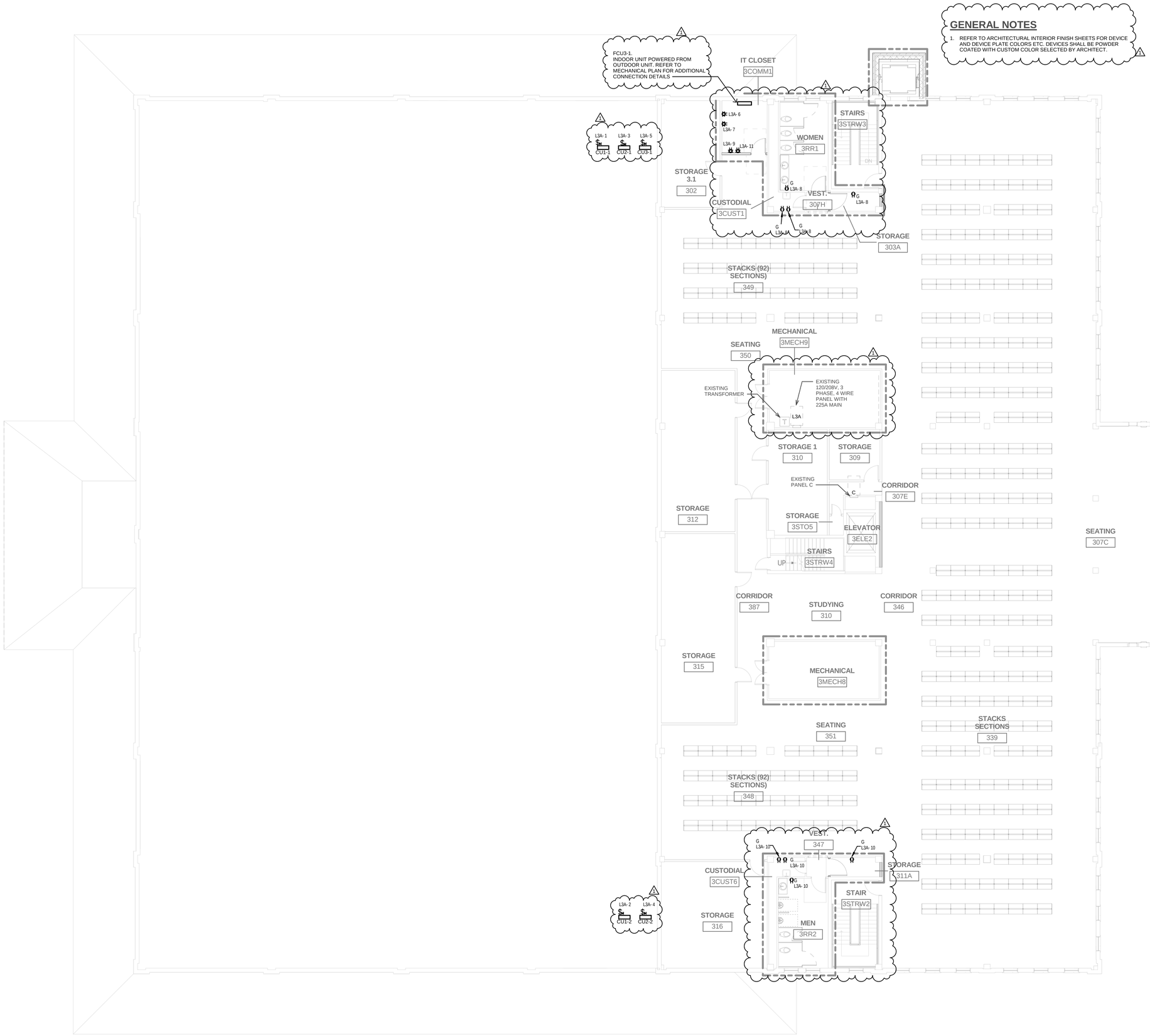

1 ELECTRICAL THIRD FLOOR
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL INTERIOR FINISH SHEETS FOR DEVICE AND DEVICE PLATE COLORS ETC. DEVICES SHALL BE POWDER COATED WITH CUSTOM COLOR SELECTED BY ARCHITECT.

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THIRD FLOOR POWER PLAN

E-103

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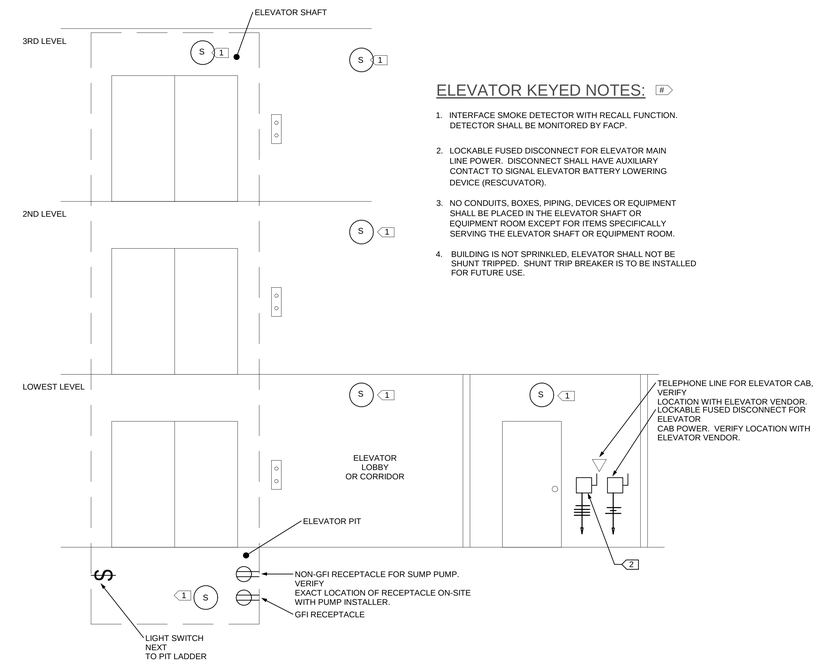
POWER SYMBOL LEGEND

SYMBOL/TYPE		SYMBOL DESCRIPTION
S		MOTOR RATED SWITCH
		STANDARD QUADPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE
		STANDARD DUPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE
SUMP		NON-GFI RECEPTACLE FOR ELEVATOR PIT SUMP PUMP. VERIFY EXACT LOCATION ON SITE WITH PUMP INSTALLER
IT		PROVIDE NEMA L5-30 RECEPTACLE FOR IT CLOSET. INSTALL 1P 30A BREAKER IN PANEL SERVING RECEPTACLE. COORDINATE WITH OWNER ON SITE FOR EXACT HEIGH AND LOCATION OF DEVICE
G		GFI DUPLEX RECEPTACLE



ELEVATOR KEYED NOTES:

1. INTERFACE SMOKE DETECTOR WITH RECALL FUNCTION. DETECTOR SHALL BE MONITORED BY FACP.
2. LOCKABLE FUSED DISCONNECT FOR ELEVATOR MAIN LINE POWER. DISCONNECT SHALL HAVE AUXILIARY CONTACT TO SIGNAL ELEVATOR BATTERY LOWERING DEVICE (RESCUVATOR).
3. NO CONDUITS, BOXES, PIPING, DEVICES OR EQUIPMENT SHALL BE PLACED IN THE ELEVATOR SHAFT OR EQUIPMENT ROOM EXCEPT FOR ITEMS SPECIFICALLY SERVING THE ELEVATOR SHAFT OR EQUIPMENT ROOM.
4. BUILDING IS NOT SPRINKLED, ELEVATOR SHALL NOT BE SHUNT TRIPPED. SHUNT TRIP BREAKER IS TO BE INSTALLED FOR FUTURE USE.

1 ELEVATOR DETAIL
N.T.S.

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ELECTRICAL POWER DETAILS

E-105

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1 ELECTRICAL DEMO FIRST FLOOR
1/8" = 1'-0"

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FIRST FLOOR DEMOLITION PLAN

ED-101

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PLUMBING SYMBOLS AND ABBREVIATIONS

NOTE: ALL SYMBOLS AND ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS

GENERAL NOTES

1. PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALL PERMITS, INSPECTIONS, LICENSES AND FEES. FURNISH ALL LABOR, EQUIPMENT, SUPPLIES AND MATERIALS NECESSARY TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS.

2. THE DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPES, FIXTURES, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DO NOT SCALE THE DRAWINGS FOR DIMENSIONS. TAKE ALL DIMENSIONS, MEASUREMENTS, EQUIPMENT LOCATIONS, LEVELS, ETC FROM THE ARCHITECTURAL DRAWINGS AND FROM THE EQUIPMENT TO BE FURNISHED. PIPING MAY BE RELOCATED OR OFFSET FOR PROPER CLEARANCES OR TO AVOID CONFLICTS WITH OTHER TRADES. THE DESIGN INTENT (I.E. PITCHES, VELOCITIES, PRESSURE DROPS, VOLTAGE DROPS, ETC) CANNOT BE GREATLY ALTERED WITHOUT THE APPROVAL OF THE ARCHITECT. THE COST OF THESE DEVIATIONS TO AVOID INTERFERENCE'S SHALL BE PART OF THE ORIGINAL CONTRACT BID.

3. EACH SUBCONTRACTOR SHALL CONFER AND COOPERATE WITH ALL OTHER TRADES TO COORDINATE THEIR WORK. COORDINATION SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO MATERIALS AND EQUIPMENT ROUTED IN CEILING AND WALL CAVITIES, EQUIPMENT ARRANGEMENT IN MECHANICAL SPACES, INCLUDING EQUIPMENT CLEARANCE REQUIREMENTS, ELEVATIONS AND DIMENSIONS OF STRUCTURAL MEMBERS AND OPENINGS, ETC. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS.

4. THE OWNER OR ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR FOR MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THE WORK.

5. THE CONTRACTOR SHALL LOCATE ALL EQUIPMENT THAT MUST BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS. EQUIPMENT SHALL INCLUDE (BUT NOT LIMITED TO) VALVES, SHOCK ABSORBERS, TRAPS, CLEANOUTS, MOTORS, CONTROLLERS, SWITCHGEAR, AND DRAIN POINTS IF REQUIRED FOR BETTER ACCESSIBILITY. FURNISH ACCESS DOORS FOR THIS PURPOSE. MINOR DEVIATIONS FROM THE DRAWINGS MAY BE ALLOWED TO PROVIDE FOR BETTER ACCESSIBILITY. ANY CHANGES SHALL BE APPROVED BY THE ARCHITECT AND CONSTRUCTION MANAGER/GENERAL CONTRACTOR PRIOR TO MAKING THE CHANGE.

6. THE CONTRACTOR SHALL PROVIDE ACCESS DOORS, WALL OPENINGS, ROOF OPENINGS OR ANY OTHER CONSTRUCTION REQUIREMENT NEEDED TO ACCOMMODATE THE PLUMBING EQUIPMENT. LOCATIONS OF THESE OPENINGS SHALL BE SUBMITTED IN SUFFICIENT TIME TO BE INSTALLED IN THE NORMAL COURSE OF WORK.

7. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL CLEANOUTS, ACCESS DOORS, ETC WITH THE ARCHITECT AND ALL OTHER TRADES PRIOR TO INSTALLATION. IF A CONFLICT WITH MILLWORK, LIGHT SWITCHES, WINDOWS, ETC EXISTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF THE POTENTIAL INTERFERENCE PRIOR TO INSTALLATION.

8. PLUMBING VENTS THROUGH THE ROOF SHALL BE A MINIMUM OF 10 FEET FROM ALL OUTSIDE AIR INTAKES AND A MINIMUM OF 5 FEET FROM EXTERIOR PERIMETER WALLS.

9. PLUMBING FIXTURES AND TRIM OF LIKE KIND SHALL BE OF THE SAME MANUFACTURER THROUGHOUT THE PROJECT. TYPICAL CATEGORIES INCLUDE THE FOLLOWING:

   A. WATER CLOSETS, LAVATORIES
   B. FAUCETS, MIXING VALVES
   C. TAIL PIECE, FIXTURE TRAPS, ESCUTCHEONS, ARM EXTENSIONS, STRAINERS
   D. FIXTURE CARRIERS, FLOOR DRAINS

10. PROVIDE WATER HAMMER ARRESTERS BETWEEN THE NEXT TO LAST AND LAST FIXTURE AT EACH BATTERY OF PLUMBING FIXTURES IN ACCORDANCE WITH THE WATER HAMMER ARRESTER SCHEDULE AND THE PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH-201.

11. ALL SANITARY WASTE PIPING WITHIN THE BUILDING ENVELOPE SHALL HAVE MINIMUM SLOPES NO LESS THAN REQUIRED BY THE LOCAL CODE AUTHORITY. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS INDICATED ON FLOOR PLANS PRIOR TO INSTALLATION OF ANY SITE UTILITIES AND CONNECTION INTO EXISTING SERVICES.

12. COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA). PLUMBING CONTRACTOR SHALL PROVIDE PLUMBING FIXTURES WITH FLUSH VALVE HANDLES LOCATED ON THE WIDE SIDE OF EACH STALL.

13. SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS WITH AN APPROVED FIRE PROOFING MATERIAL.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	IE	INVERT ELEVATION
AHU	AIR HANDLING UNIT	IN.	INCH, INCHES
APPROX	APPROXIMATE	J-BOX	JUNCTION BOX
BD	BUILDING DRAIN (BELOW FLOOR)	kW	KILOWATT
		L	LENGTH
BS	BUILDING SEWER (OUTSIDE OF BLDG)	MAX	MAXIMUM
		MIN	MINIMUM
CW	DOMESTIC COLD WATER	MSB	MOP SINK BASIN
D	EQUIPMENT DRAIN	N/A	NOT APPLICABLE
DCO	TWO-WAY GRADE CLEANOUT	PCO	PLUG CLEANOUT
DEG	DEGREES	∅	PHASE
(E)	EXISTING	PROVIDE	FURNISH AND INSTALL
EWC	ELECTRIC WATER COOLER	S	SINK
°F	DEGREES FAHRENHEIT	THRU	THROUGH
FCO	FLOOR CLEANOUT	TYP	TYPICAL
FCU	FAN COIL UNIT	UL	UNDERWRITERS LABORATORIES, INC.
FD	FLOOR DRAIN	V	SANITARY VENT
FT.	FOOT, FEET	VTR	SANITARY VENT THRU ROOF
G	NATURAL GAS	W	SANITARY WASTE (ABOVE FLOOR)
GCO	GRADE CLEANOUT	WC	WATER CLOSET
HW	DOMESTIC HOT WATER	WCO	WALL CLEANOUT
HZ	HERTZ		

LINE TYPES

SYMBOL	DESCRIPTION
—W—	SANITARY SEWER (ABOVE CEILING)
—BD—	SANITARY SEWER (BELOW FLOOR, BUILDING DRAIN)
—BS—	SANITARY SEWER (OUTSIDE OF BUILDING, BUILDING SEWER)
—D—	EQUIPMENT DRAIN (ABOVE CEILING)
— — — —	SANITARY VENT
— - — -	DOMESTIC COLD WATER
— - — -	DOMESTIC HOT WATER
— - — -	DOMESTIC HOT WATER CIRCULATION
—FM—	FORCE MAIN (DOWNSTREAM OF PUMP)
	DIRECTION OF FLOW
	DIRECTION OF PIPE SLOPE DOWN

VALVES AND FITTINGS

SYMBOL	DESCRIPTION
	SHUT-OFF / ISOLATION VALVE
	SHUT-OFF / ISOLATION VALVE
	PLUG VALVE / GAS COCK
	GAS PRESSURE REGULATOR
	END RISE (90° ELL)
	END DROP (90° ELL)
	CAP ON END OF PIPE
WCO	WALL CLEANOUT
PCO	PLUG CLEANOUT
FD	FLOOR DRAIN
FCO	FLOOR CLEANOUT

WATER HAMMER ARRESTER SCHEDULE

P.D.I. SIZE	A	B	C	D	E	F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330

NOTES:
1. ALL WHA'S SHALL HAVE AN ACCESS PANEL.
2. SIZE AND LOCATE WATER HAMMER ARRESTERS IN ACCORDANCE WITH PDI PAMPHLET PDI-WH-201

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	ROUGH IN (MINIMUM) W	V	CW	HW	MANUFACTURER AND MODEL NUMBER	ADA /TAS
WC1	WATERCLOSET, FLOOR MOUNT, FLUSHOMETER VALVE, TOP SPUD, ELONGATED, SIPHON ACTION JETTED BOWL, VITREOUS CHINA, WHITE, ASME A112.19.2M, 2" FULLY GLAZED TRAPWAY, 10" ROUGH-IN, 1.28 GPF	4"	2"	-	-	AMERICAN STANDARD, 2234.001; KOHLER, K-96053; ZURN, Z5655-BWL1, SLOAN, ST-2009.	
	FLUSHOMETER VALVE, 1.28 GPF, BATTERY POWERED AUTOMATIC SENSOR ACTUATOR, EXPOSED DIAPHRAGM-TYPE, CHROME PLATED METAL COVER WITH MANUAL OVER-RIDE BUTTON, 1-1/2" TOP SPUD, SPUD COUPLING AND FLANGE, CHROME PLATED ANGLE STOP WITH STOP CAP, VACUUM BREAKER FLUSH CONNECTION, CAST WALL FLANGE WITH SET SCREW, ANSI/ASME 112.19.6	-	-	1 1/2"	-	SLOAN, OPTIMA 111-1.28 SMO; ZURN, ZER6000AV-HET-CPM.	
	SEAT, EXTRA HEAVY WEIGHT, POSTURE MOLDED SOLID PLASTIC, ELONGATED, OPEN FRONT, LESS COVER, EXTERNAL CHECK HINGES, STAINLESS STEEL HINGE POSTS, WHITE	-	-	-	-	CHURCH 9500C; BEMIS, 1655C; OLSONITE, 95/SS	
WC2	WATERCLOSET, ADA COMPLIANT, FLOOR MOUNT, FLUSHOMETER VALVE, TOP SPUD, ELONGATED, SIPHON ACTION JETTED BOWL, VITREOUS CHINA, WHITE, ASME A112.19.2M, 2" FULLY GLAZED TRAPWAY, 10" ROUGH-IN, 1.28 GPF	4"	2"	-	-	AMERICAN STANDARD, 3043.001; KOHLER, K-96057; ZURN, Z5665-BWL1; SLOAN, ST-2029.	♿
	FLUSHOMETER VALVE, 1.28 GPF, BATTERY POWERED AUTOMATIC SENSOR ACTUATOR, EXPOSED DIAPHRAGM-TYPE, CHROME PLATED METAL COVER WITH MANUAL OVER-RIDE BUTTON, 1-1/2" TOP SPUD, SPUD COUPLING AND FLANGE, CHROME PLATED ANGLE STOP WITH STOP CAP, VACUUM BREAKER FLUSH CONNECTION, CAST WALL FLANGE WITH SET SCREW, ANSI/ASME 112.19.6	-	-	1 1/2"	-	SLOAN, OPTIMA 111-1.28 SMO; ZURN, ZER6000AV-HET-CPM.	
	SEAT, EXTRA HEAVY WEIGHT, POSTURE MOLDED SOLID PLASTIC, ELONGATED, OPEN FRONT, LESS COVER, EXTERNAL CHECK HINGES, STAINLESS STEEL HINGE POSTS, WHITE	-	-	-	-	CHURCH 9500C; BEMIS, 1655C; OLSONITE, 95/SS	
U1	URINAL, 0.5 GPF, WALL MOUNT, VITREOUS CHINA, 14" EXTENDED FLUSHING RIM, WASHOUT FLUSHING ACTION, 3/4" INLET SPUD, INLET AND OUTLET SPUDS AND HANGERS, ASME/ANSI A112.19.2	2"	2"	-	-	AMERICAN STANDARD, 6590.001; KOHLER, K-4991-ET; ZURN, Z5755-U; SLOAN, SU-1009.	
	FLUSHOMETER VALVE, 0.5 GPF, BATTERY POWERED AUTOMATIC SENSOR ACTUATOR, EXPOSED DIAPHRAGM-TYPE, CHROME PLATED METAL COVER WITH MANUAL OVER-RIDE BUTTON, 1-1/2" TOP SPUD, SPUD COUPLING AND FLANGE, CHROME PLATED ANGLE STOP WITH STOP CAP, VACUUM BREAKER FLUSH CONNECTION, CAST WALL FLANGE WITH SET SCREW, ANSI/ASME 112.19.6	-	-	3/4"	-	SLOAN, OPTIMA 186-0.5 SMO; ZURN, ZER6003AV-CPM-EWS.	
	FIXTURE CARRIER, HANGER AND BEARING PLATES, ADJ. SUPPORTING RODS, UPRIGHTS, WELDED FEET	-	-	-	-	JOSAM, SERIES 17560-UR; WATTS, CA-321; ZURN, Z1222; OR JR SMITH, 0632	
U2	URINAL, 0.5 GPF, WALL MOUNT, VITREOUS CHINA, 14" EXTENDED FLUSHING RIM, WASHOUT FLUSHING ACTION, 3/4" INLET SPUD, INLET AND OUTLET SPUDS AND HANGERS, ASME/ANSI A112.19.2	2"	2"	-	-	AMERICAN STANDARD, 6590.001; KOHLER, K-4991-ET; ZURN, Z5755-U; SLOAN, SU-1009.	♿
	FLUSHOMETER VALVE, 0.5 GPF, BATTERY POWERED AUTOMATIC SENSOR ACTUATOR, EXPOSED DIAPHRAGM-TYPE, CHROME PLATED METAL COVER WITH MANUAL OVER-RIDE BUTTON, 1-1/2" TOP SPUD, SPUD COUPLING AND FLANGE, CHROME PLATED ANGLE STOP WITH STOP CAP, VACUUM BREAKER FLUSH CONNECTION, CAST WALL FLANGE WITH SET SCREW, ANSI/ASME 112.19.6	-	-	3/4"	-	SLOAN, OPTIMA 186-0.5 SMO; ZURN, ZER6003AV-CPM-EWS.	
	FIXTURE CARRIER, HANGER AND BEARING PLATES, ADJ. SUPPORTING RODS, UPRIGHTS, WELDED FEET	-	-	-	-	JOSAM, SERIES 17560-UR; WATTS, CA-321; ZURN, Z1222; OR JR SMITH, 0632	
L1	LAVATORY, 20"X17" OVAL SELF-RIMMING BASIN WITH FAUCET LEDGE, 4" CENTER FAUCET HOLES, VITREOUS CHINA, FRONT OVERFLOW, ANSI A112.19.2.	2"	1 1/2"	-	-	AMERICAN STANDARD, 0476.028; KOHLER, K-2196-4; ZURN, Z5114; SLOAN, SS-3002.	♿
	FAUCET, ELECTRONIC PROXIMITY, CHROME PLATED BRASS, SINGLE CENTER HOLE, BATTERY	-	-	1/2"	1/2"	CHICAGO FAUCET, 680-4CP; MOEN COMMERCIAL, 8301; AMERICAN STANDARD, 6518VP.2DC; SLOAN EBF187-4	
	SUPPLY AND STOPS, LOOSE KEY, CHROME PLATED BRASS VALVES AND CHROME PLATED COPPER RISERS	-	-	-	-	MCGUIRE, H2165CCLK; T&S BRASS, B-1305; OR BRASSCRAFT, OCR1912A	
	P-TRAP, CHROME PLATED CAST BRASS BODY WITH CLEANOUT, SEAMLESS WALL BEND, 17 GA.	-	-	-	-	MCGUIRE, 8902; BRASSCRAFT, 507; OR EQUAL IN T&S BRASS	
	OFFSET TAILPIECE AND STRAINER, CHROME PLATED CAST BRASS	-	-	-	-	MCGUIRE, 155WC; OR EQUAL IN T&S BRASS; OR BRASSCRAFT	
	THERMOSTATIC MIXING VALVE, 0.25 GPM MINIMUM FLOW, INTEGRAL INLET CHECK VALVES AND STRAINER, SET TEMPERATURE TO 105°, ASSE 1070.	-	-	1/2"	1/2"	WATTS, LFUSG-B; LEONARD, 170-LF; OR EQUAL	
L2	LAVATORY, 19"X16" OVAL UNDER MOUNT, VITREOUS CHINA, FRONT OVERFLOW, UNGLAZED RIM, ANSI A112.19.2.	2"	1 1/2"	-	-	AMERICAN STANDARD, 0496.221; KOHLER, K-2210; ZURN, Z5220; SLOAN, SS-3001.	♿
	FAUCET, ELECTRONIC PROXIMITY, CHROME PLATED BRASS, SINGLE CENTER HOLE, BATTERY	-	-	1/2"	1/2"	CHICAGO FAUCET, 680-4CP; MOEN COMMERCIAL, 8301; AMERICAN STANDARD, 6518VP.2DC, SLOAN EBF187-4	
	SUPPLY AND STOPS, LOOSE KEY, CHROME PLATED BRASS VALVES AND CHROME PLATED COPPER RISERS	-	-	-	-	MCGUIRE, H2165CCLK; T&S BRASS, B-1305; OR BRASSCRAFT, OCR1912A	
	P-TRAP, CHROME PLATED CAST BRASS BODY WITH CLEANOUT, SEAMLESS WALL BEND, 17 GA.	-	-	-	-	MCGUIRE, 8902; BRASSCRAFT, 507; OR EQUAL IN T&S BRASS	
	OFFSET TAILPIECE AND STRAINER, CHROME PLATED CAST BRASS	-	-	-	-	MCGUIRE, 155WC; OR EQUAL IN T&S BRASS; OR BRASSCRAFT	
	THERMOSTATIC MIXING VALVE, 0.25 GPM MINIMUM FLOW, INTEGRAL INLET CHECK VALVES AND STRAINER, SET TEMPERATURE TO 105°, ASSE 1070.	-	-	1/2"	1/2"	WATTS, LFUSG-B; LEONARD, 170-LF; OR EQUAL	
EWC1 (1)	TWO STATION WATER COOLER, INDOOR BI-LEVEL WALL MOUNTED, SELF CONTAINED ELECTRIC REFRIGERATION, STAINLESS STEEL BASIN AND CABINET WITH ANTI-SPLASH RIDGE, INTEGRAL DRAIN STRAINER, NON-SQUIRT BUBBLER, PUSH BAR ACTIVATION ON FRONT AND SIDES OF WATER COOLER. REFRIGERATION SYSTEM SERVING BOTH BI-LEVELS TO INCLUDE HIGH EFFICIENCY COMPRESSOR, R-134A, FULLY INSULATED STAINLESS STEEL TANK, 8 GPH WITH 50°F SUPPLY TEMPERATURE AND 80°F AMBIENT, 115VOLT, ANSI 117.1, NFS/ANSI 61, ARI STANDARD 1010 PROVIDE WITH CHILLED WATER BOTTLE FILLER ABOVE LOWER LEVEL WATER COOLER. ELECTRONIC SENSOR WITH 20-SEC SHUT-OFF TIMER.UNIT SHALL INCLUDE INTERNAL WATER FILTER , 3,000 GAL CAPACITY	2"	1 1/2"	-	-	HALSEY TAYLOR HTHB-HACG8BLSS-WF	♿
	HANDICAPPED COMPLIANT APRON, MOLDED STAINLESS STEEL SKIRT KIT FOR INSTALLATION ON THE HIGH UNIT					HALSEY TAYLOR, 98312C	
	SERVICE STOP WITH DIELECTRIC COUPLING	-	-	1/2"	-	REFER TO MANUFACTURER FOR REQUIREMENTS	
	P-TRAP, PVC, WHITE	-	-	-	-	DEARBORN BRASS, A9701BG; KEYSAN MOEM9100; OR EQUAL	
	FIXTURE CARRIER, STEEL TOP AND BOTTOM PLATES W/ ADJ. HOLES, CHROME PLATED CAP NUTS/WASHERS	-	-	-	-	JOSAM SERIES 17905; WATTS, CA-431-1; OR EQUAL IN ZURN OR JR SMITH	
FD1	FLOOR DRAIN, CAST IRON BODY, ANCHOR FLANGE, WEEPHOLES FOR DOUBLE DRAINAGE, 6" SQUARE, STAINLESS STEEL FLAT STRAINER. ADJUSTABLE DRAIN HEAD W/ MACHINED INTEGRAL BODY THREADS, ASME A112.21.1	-	-	-	-	JOSAM SERIES 30000-S-SS; MIFAB P1000-C-S6-3; ZURN Z-415-S6	
	PROVIDE TRAP SEAL SYSTEM COMPRISED OF AN DRAIN INSERT CONSTRUCTED OF SMOOTH, SOFT, FLEXIBLE, ELASTOMERIC PVC MATERIAL MOLDED INTO SHAPE OF DUCK'S BILL, OPEN ON TOP WITH CURL CLOSURE AT BOTTOM.	-	-	-	-	PROSET SYSTEMS, INC., TRAP GUARD	
RD1	ROOF DRAIN, LARGE SUMP, CAST IRON BODY, 12"DIA. CAST IRON OR DUCTILE IRON DOME STRAINER, ANCHOR FLANGE AND CLAMP, ADJUSTABLE/INTEGRAL GRAVEL STOP, ASME A112.21.2	-	-	-	-	JOSAM SERIES 21500-3-22; MIFAB R1200-M; ZURN, ZC-100-G	
OFD1	OVERFLOW ROOF DRAIN, LARGE SUMP, ADJUSTABLE INTERNAL STANDPIPE DAM, CAST IRON BODY, 12" DIA. CAST IRON OR DUCTILE IRON DOME STRAINER, ANCHOR FLANGE AND CLAMP, ADJUSTABLE/INTEGRAL GRAVEL STOP, ASME A112.21.2	-	-	-	-	JOSAM SERIES 21500-16-3-22; MIFAB R1200-W-M; ZURN ZC-100-G-W2	
DSN1	DOWNSPOUT NOZZLE, CUSTOM, 1-PIECE, WELDED 316 STAINLESS STEELWITH INTEGRAL EXTERIOR WALL WALL FLANGE AND 3" ROUND INLET. PROVIDE SAMPLES OF MATERIAL AND FINISHES FOR EXTERIOR DOWNSPOUT NOZZLE FOR ARCHITECTURAL SELECTION OF FINISH.	-	-	-	-	CUSTOM	
WCO	WALL CLEANOUT, CI BODY, RECESSED, THREADED BRASS PLUG, STAINLESS STEEL ACCESS COVER	-	-	-	-	JOSAM SERIES 58890; MIFAB C1460; ZURN Z-1441	
PCO	SPIGOT CONNECTION, RAISED HEAD THREADED BRASS PLUG	-	-	-	-	JOSAM; MIFAB; ZURN	

NOTES:
1. CONTRACTOR SHALL FURNISH AND INSTALL SUPPLIES, STOPS, TRAPS, TAILPIECES AND ALL APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION OF ALL FIXTURES.
2. ALL ADA ACCESSIBLE SINKS AND LAVATORIES SHALL BE EQUIPPED WITH TRUEBRO #103 UNDER SINK PROTECTIVE PIPE COVERS WHERE NOT CONCEALED BY MILLWORK.
3. COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE TEXAS ACCESSIBILITY'S STANDARD (TAS). PLUMBING CONTRACTOR SHALL PROVIDE PLUMBING FIXTURES WITH FLUSH VALVE HANDLES LOCATED ON THE WIDE SIDE OF EACH STALL OR ROOM.
4. FLOOR CLEANOUT ACCESS COVERS IN ALL FINISHED AREAS SHALL BE OF THE RECESSED TYPE TO ALLOW FOR INSERTION OF FINISHED FLOOR TREATMENT. TILE OR CARPET MARKER AS NECESSARY.
5. ABOVE THE FLOOR P-TRAPS ON LAVATORIES AND SINKS SHALL BE 17 GAUGE, CHROME PLATED BRASS. ACCEPTABLE MANUFACTURERS: MCGUIRE, T&S BRASS, OR BRASSCRAFT.
6. CONTRACTOR SHALL VERIFY FIXTURE SUPPLIES AND APPURTENANCES FOR EACH FIXTURE PRIOR TO BIDDING AND PURCHASING.
7. CONTRACTOR SHALL VERIFY PLUMBING FIXTURES PROVIDED COMPLY WITH HANDICAPPED ACCESSIBILITY STANDARDS INCLUDING HEIGHT AND CLEARANCE REQUIREMENTS.
8. ALL WATER CLOSET AND URINAL FLUSH VALVES SHALL INCLUDE CHROME PLATED CAST WALL FLANGE WITH SETSCREW AND COVER TUBE.

PUMP SCHEDULE

MARK	SERVICE	TYPE	FLOWRATE (GPM)	TOTAL DYNAMIC HEAD (FEET)	SPEED (RPM)	EFFIC. (%)	ELECTRICAL CHARACTERISTICS HP	VOLTS	PHASE	HZ	MANUFACTURER AND MODEL NUMBER	REMARKS
CP1	DOMESTIC HOT WATER CIRCULATION	INLINE, CENTRIFUGAL	4	12	1,750	65	1/25	115	1	60	TACO, 008IQFS6	(1) (2) (4)
CP2	DOMESTIC HOT WATER CIRCULATION	INLINE, CENTRIFUGAL	2	12	1,750	65	1/25	115	1	60	TACO, 008IQFS6	(1) (2) (4)
SP1	ELEVATOR SUMP PUMP	SUMP AND EFFLUENT PUMP	50	15	1,750	65	1/2	115	1	60	LITTLE GIANT MODEL 12-CBA	(3) (4)

(1) PROVIDE 7-DAY TIME CLOCK FOR OPERATION OF CIRCULATION PUMP (SET TO OPERATE BETWEEN 5:00 AM TO 9:00 PM, ADJUSTABLE).
(2) PUMPS SHALL BE RATED FOR CONTINUOUS OPERATION AT WATER TEMPERATURES OF WATER SYSTEM
(3) PROVIDE PUMP WITH AUTOMATIC DISCHARGE CONTROLLED BY INTERNAL PRESSURE SWITCH.
(4) OR EQUAL.

DOMESTIC ELECTRIC WATER HEATER SCHEDULE

MARK	SERVICE	TYPE	STORAGE CAPACITY (GAL)	RECOVERY RATE (80° RISE) (GPH)	LEAVING WATER TEMPERATURE (°F)	ELECTRICAL CHARACTERISTICS # ELEMENTS	KW	VOLTS	PHASE	HZ	MANUFACTURER AND MODEL NUMBER	REMARKS
WH1	DOMESTIC HOT WATER	ELECTRIC	30	15	140	2 (1)	6	208	1	60	A.O. SMITH, DEL-30	(2)
WH2	DOMESTIC HOT WATER	ELECTRIC	30	15	140	2 (1)	6	208	1	60	A.O. SMITH, DEL-30	(2)

(1) TWO ELECTRIC HEATING ELEMENTS SET FOR NON-SIMULTANEOUS OPERATION
(2) ADJUST STORAGE WATER TEMPERATURE IN ACCORDANCE WITH LOCAL ENERGY CODE REQUIREMENTS.

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PLUMBING LEGENDS, NOTES, SCHEDULES

P-001

4/10/2018 1:41:41 PM

1 FIRST FLOOR PLUMBING

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

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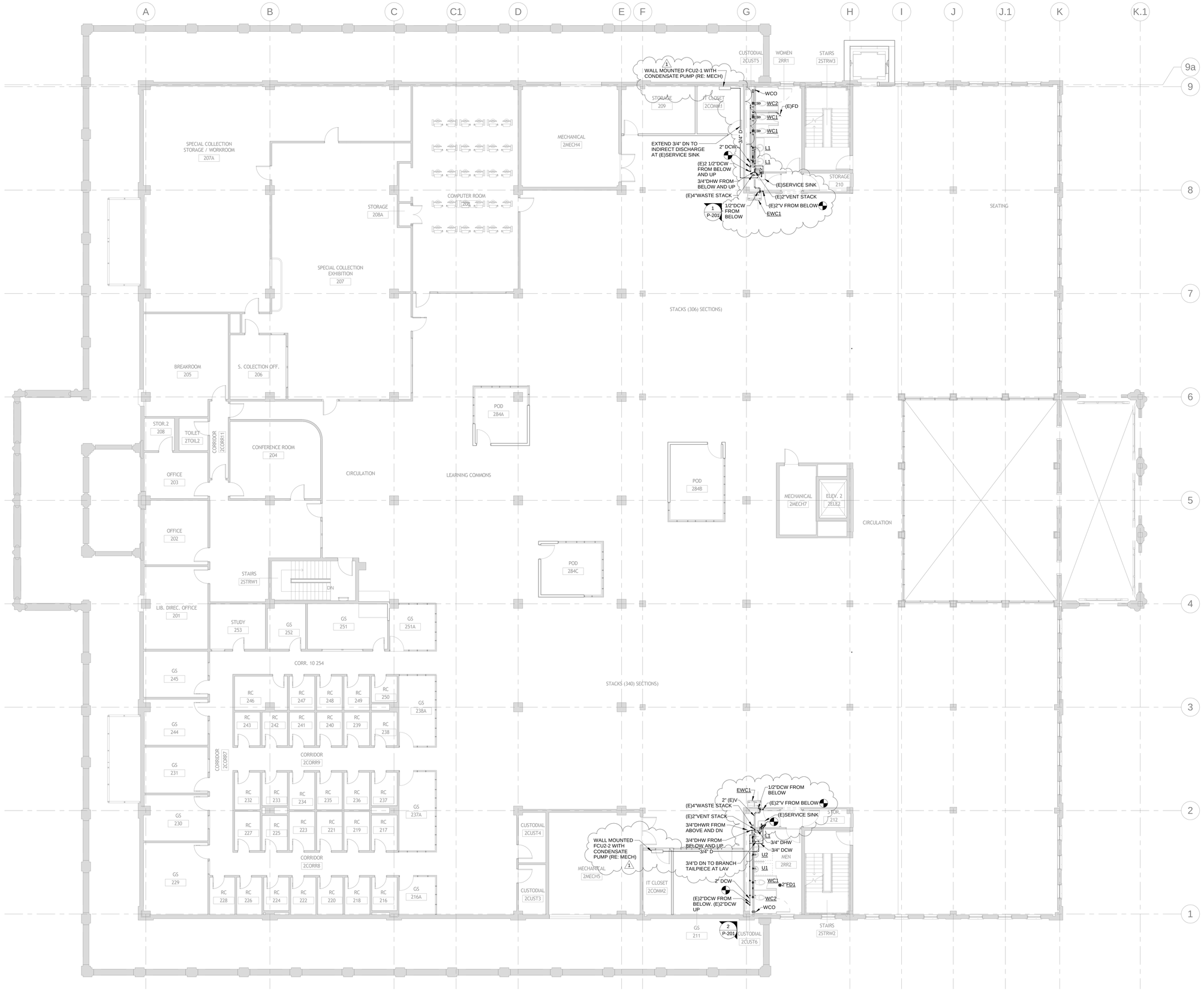
FIRST FLOOR PLUMBING PLAN

P-101



1 SECOND FLOOR PLUMBING

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

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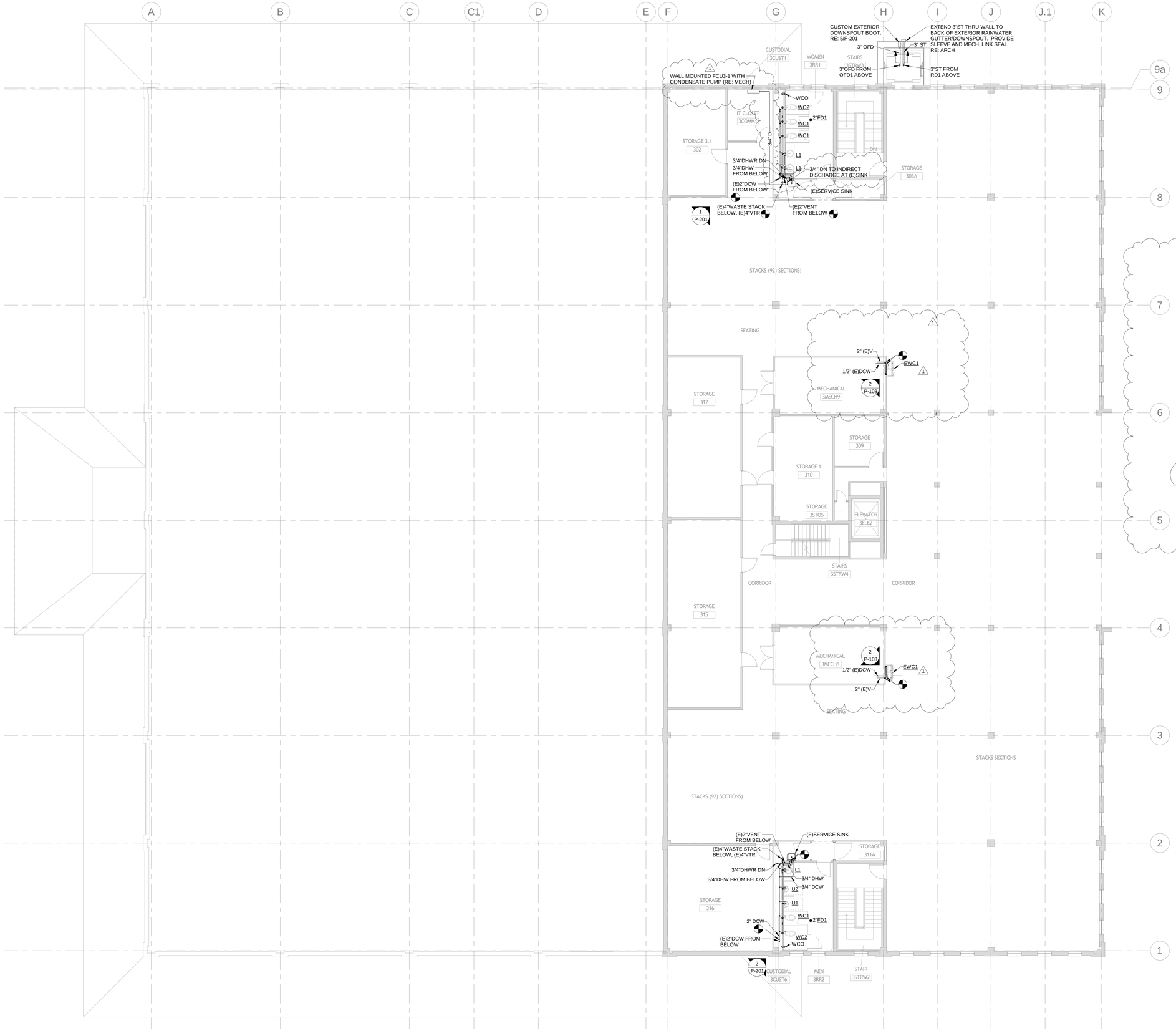
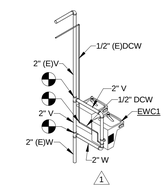
SECOND FLOOR PLUMBING PLAN

P-102





2 PLUMBING RISER
SCALE:

1 THIRD FLOOR PLUMBING
SCALE: 1/8" = 1'-0"

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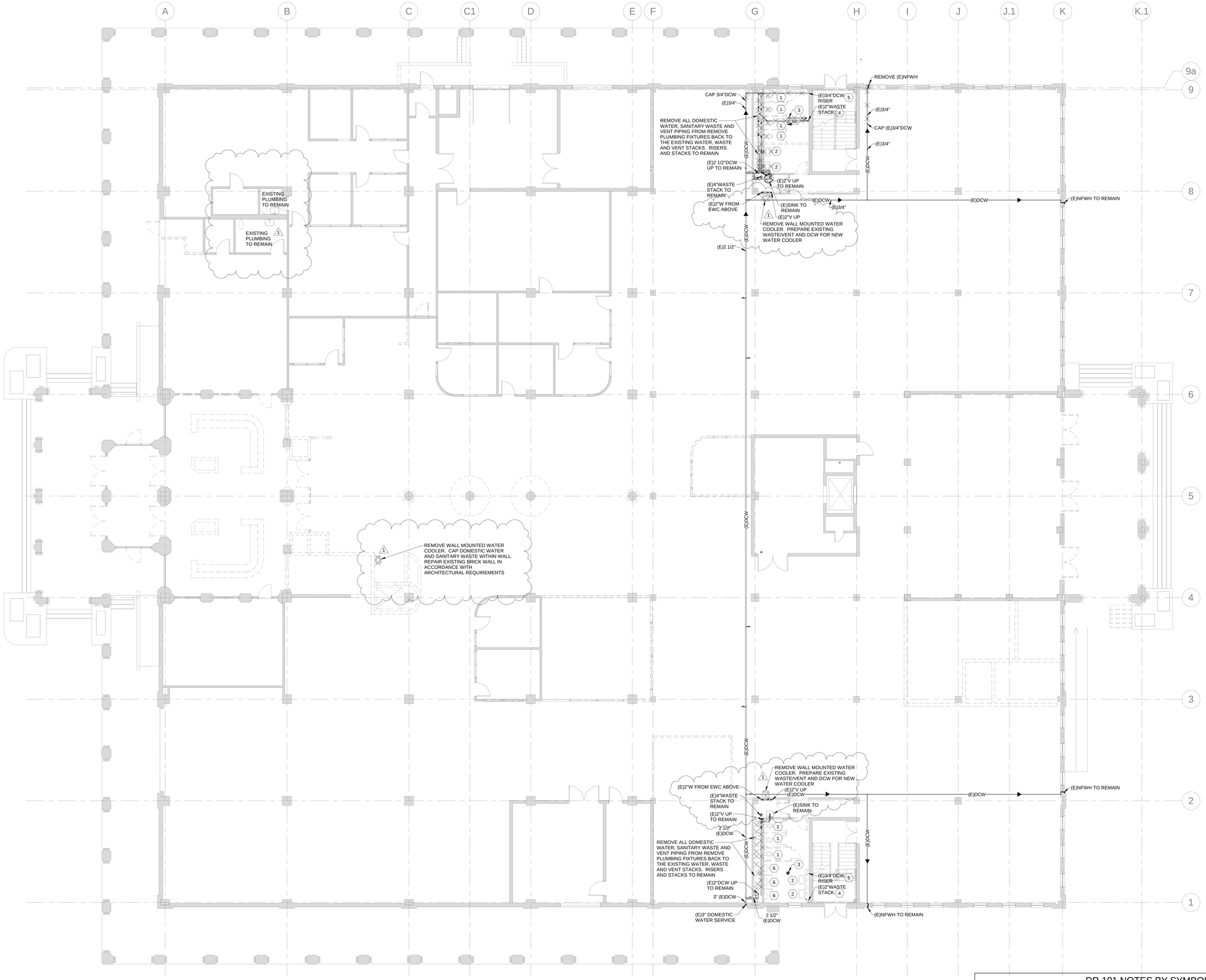
THIRD FLOOR PLUMBING PLAN

P-103



1 FIRST FLOOR PLUMBING DEMOLITION

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

DP-101 NOTES BY SYMBOL (#)

NUMBER	NOTE
1	REMOVE FLOOR MOUNTED WATER CLOSET INCLUDING CLOSET FLANGE, BEND AND ASSOCIATED UNDERFLOOR SANITARY WASTE AND VENT PIPING. REMOVE FLUSH VALVE INCLUDING WATER PIPING AND APPURTENANCES.
2	REMOVE WALL MOUNTED LAVATORY, SANITARY WASTE AND VENT PIPING, DCW, DHW WATER PIPING AND APPURTENANCES.
3	REMOVE SANITARY WASTE AND VENT PIPING FROM EXISTING FLOOR DRAIN ON FLOOR ABOVE. FLOOR DRAIN BODY AND LOCATION SHALL REMAIN. CLEAN FLOOR DRAIN AND REPLACE GRATE..
4	REMOVE (E)2" WASTE STACK FROM PLUMBING ABOVE.
5	REMOVE (E)3/4"DCW RISER TO PLUMBING ABOVE.
6	REMOVE WALL MOUNTED URINAL INCLUDING ALL ASSOCIATED SANITARY WASTE AND VENT PIPING. REMOVE FLUSH VALVE INCLUDING WATER PIPING AND APPURTENANCES.

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FIRST FLOOR PLUMBING DEMOLITION PLAN

DP101

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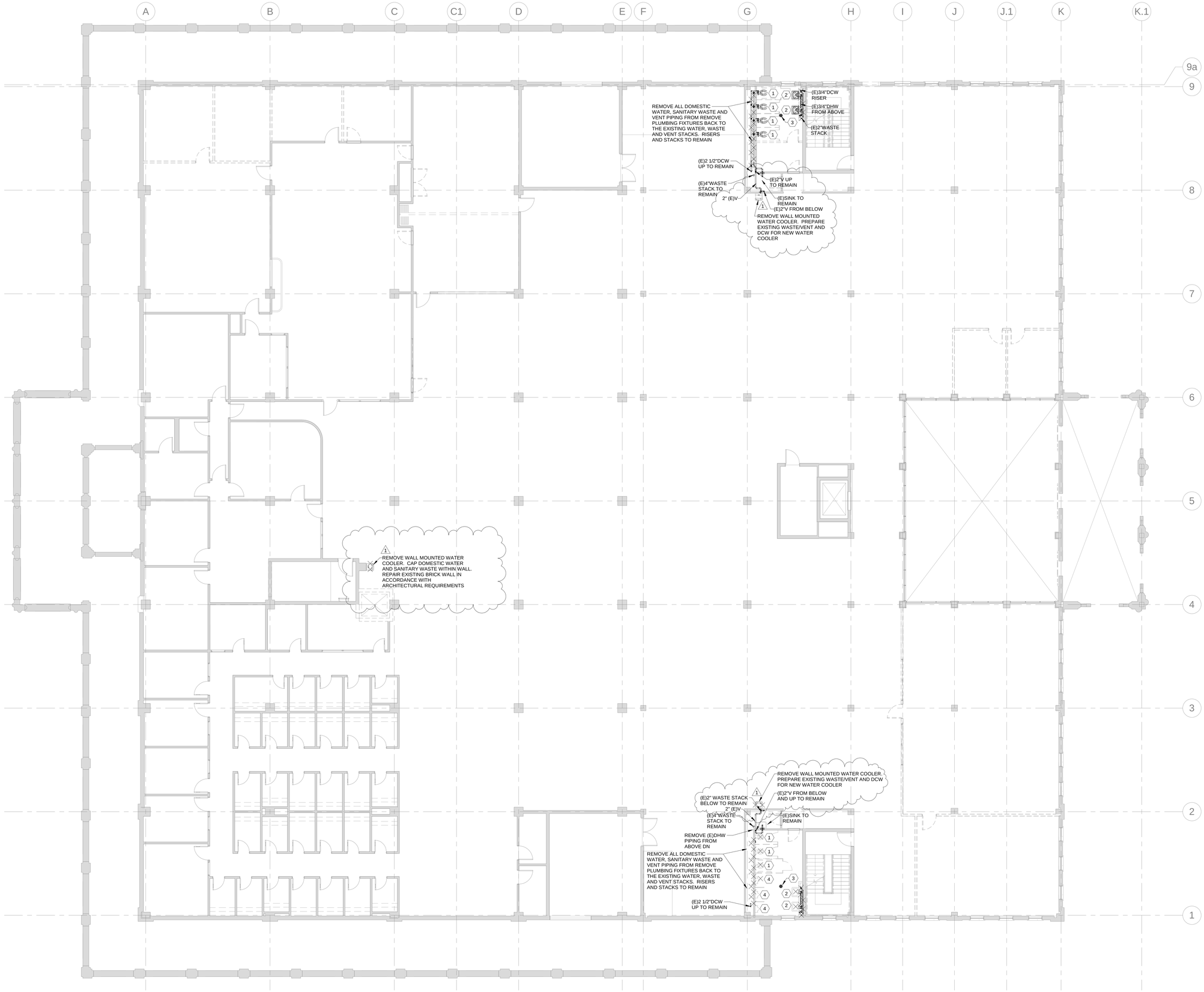

1 SECOND FLOOR PLUMBING DEMOLITION

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

DP-102 NOTES BY SYMBOL

NUMBER	NOTE
1	REMOVE FLOOR MOUNTED WATER CLOSET INCLUDING CLOSET FLANGE, BEND AND ASSOCIATED BELOWFLOOR SANITARY WASTE AND VENT PIPING. REMOVE FLUSH VALVE INCLUDING WATER PIPING AND APPURTENANCES.
2	REMOVE WALL MOUNTED LAVATORY, SANITARY WASTE AND VENT PIPING, DCW, DHW WATER PIPING AND APPURTENANCES.
3	REMOVE SANITARY WASTE AND VENT PIPING FROM EXISTING FLOOR DRAIN ON FLOOR BELOW. FLOOR DRAIN BODY AND LOCATION SHALL REMAIN. CLEAN FLOOR DRAIN AND REPLACE GRATE.
4	REMOVE WALL MOUNTED URINAL INCLUDING ALL ASSOCIATED SANITARY WASTE AND VENT PIPING. REMOVE FLUSH VALVE INCLUDING WATER PIPING AND APPURTENANCES.

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SECOND FLOOR PLUMBING DEMOLITION PLAN

DP102

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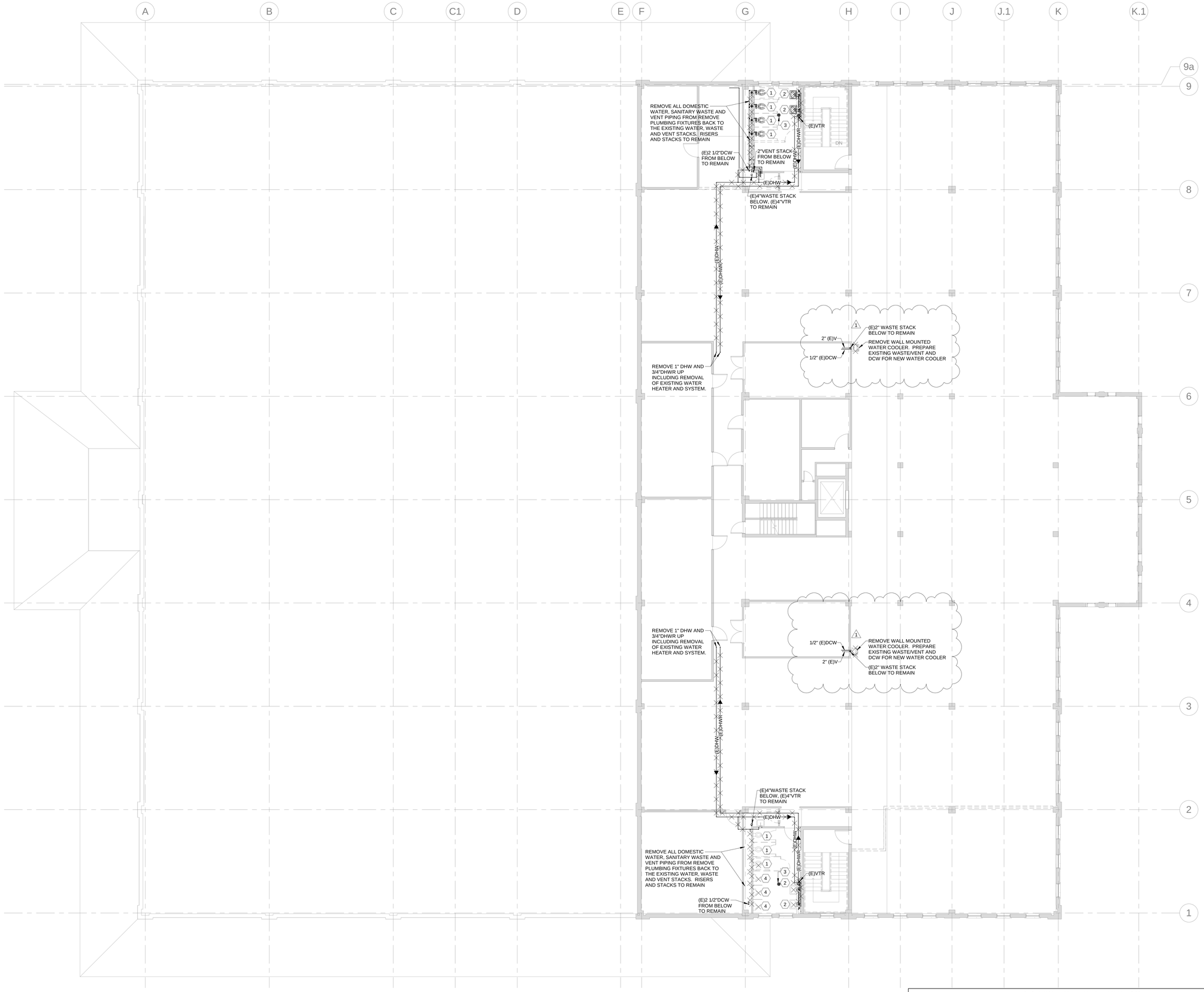

1 THIRD FLOOR PLUMBING DEMOLITION

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

DP-103 NOTES BY SYMBOL

NUMBER	NOTE
1	REMOVE FLOOR MOUNTED WATER CLOSET INCLUDING CLOSET FLANGE, BEND AND ASSOCIATED BELOWFLOOR SANITARY WASTE AND VENT PIPING. REMOVE FLUSH VALVE INCLUDING WATER PIPING AND APPURTENANCES.
2	REMOVE WALL MOUNTED LAVATORY, SANITARY WASTE AND VENT PIPING, DCW, DHW WATER PIPING AND APPURTENANCES.
3	REMOVE SANITARY WASTE AND VENT PIPING FROM EXISTING FLOOR DRAIN ON FLOOR BELOW. FLOOR DRAIN BODY AND LOCATION SHALL REMAIN. CLEAN FLOOR DRAIN AND REPLACE GRATE.
4	REMOVE WALL MOUNTED URINAL INCLUDING ALL ASSOCIATED SANITARY WASTE AND VENT PIPING. REMOVE FLUSH VALVE INCLUDING WATER PIPING AND APPURTENANCES.

HOLZMAN MOSS BOTTINO ARCHITECTURE

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04/10/2018

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ISSUE DATE: 03.19.2018

REVISION	DESCRIPTION	DATE
1	ADDENDUM #2	04.10.18

HMBA PROJECT NUMBER: 06113.00

THIRD FLOOR PLUMBING DEMOLITION PLAN

DP103

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