MIDWESTERN STATE UNIVERSITY - MOFFETT LIBRARY RENOVATION
WICHITA FALL, TEXAS

PHASE I 100% CONSTRUCTION DOCUMENTS
MARCH 19, 2018

HOLZMAN MOSS BOTTINO ARCHITECTURE

AIA HPA

Summit CONSULTANTS, INC.

RTP STRUCTURAL

MSU TEXAS™

3/16/2018 1:59:03 PM

GRAPHIC SYMBOLS LEGEND

17'	DIMENSION LINES
	HIDDEN OR REFLECTED LINE
℄	CENTER LINE
NAME / ELEVATION	ELEVATION KEY
DETAIL NO. / ? / ? / SHEET NO.	BUILDING OR WALL SECTION KEY
A-302 1	ELEVATION KEY
1 / A-302	INTERIOR ELEVATION KEY
1 / A101 SIM	DETAIL KEY
ROOM NAME / 101	ROOM NAME / NUMBER DESIGNATIONS
101	DOOR TYPE
1i	PARTITION TYPE
1t	WINDOW TYPE
A / 1	WINDOW SILL / SHADE TYPE
1i	STOREFRONT TAG
1i	GLAZING TAG
1	REVISION NUMBER
MW123.1	MILLWORK TYPE
WB	WHITE BOARD
FSTV	FLAT SCREEN TV (N.I.C.)

ABBREVIATIONS

ACOUST.	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
A.D.	ACCESS DOOR
ADD	ADDENDUM
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
A.P.	ACCESS PANEL
APPROX.	APPROXIMATELY
ARCH.	ARCHITECTURAL
BD.	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
CF	CUBIC FOOT
CL	CLOSET
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CPT	CARPET
CT	CERAMIC TILE
DR.	DRAIN
DET.	DETAIL
DIAM	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DN	DOWN
DPR	DISPENSER
DR	DOOR
DWG	DRAWING
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMERG	EMERGENCY
EP	ELECTRIC PANELBOARD
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FA	FIRE ALARM
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISHED FLOOR ELEVATION
FHC	FIRE HOSE CABINET
FIN	FINISH
FLR	FLOOR
FLUOR	FLUORESCENT
FP	FIREPROOF
FR	FRAME
FT	FOOT (FEET)
FUR	FURRING
FUT	FUTURE
FWP	FABRIC WRAPPED PANEL (ACOUSTICAL)
GA.	GAUGE, GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERAL
GL	GLASS (GLAZING)
GL-L	GLASS-LAMINATED
GL-T	GLASS- TEMPERED
GWB	GYPSUM WALL BOARD
GYP.	GYPSUM
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR RATED
HT	HEIGHT
HVAC	HEATING/VENTILATING/ AIR CONDITIONING
IN	INCH
INCL	INCLUDING
INSUL	INSULATING/INSULATION
INT	INTERIOR
JF	JOINT FILLER
JT	JOINT
KIT	KITCHEN
LAM	LAMINATE
LH	LEFT-HAND
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTG	MOUNTING
MTL	METAL
MULL	MULLION
MWK	MILLWORK
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
PC	PRECAST CONCRETE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PNL	PANEL
PNT	PAINT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTD	PAINTED
PWD	PLYWOOD
RAD	RADIUS
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
RES	RESIDENTIAL
RET	RETURN
REV	REVISION
RFL	REFLECT(ED) OR (IVE)
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
SCHED	SCHEDULE
SECT	SECTION
SF	STOREFRONT
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION(S)
S.S.	STAINLESS STEEL
STD	STANDARD
STOR	STORAGE
STRUCT	STRUCTURAL
T.O.	TOP OF
TPD	TOILET PAPER DISPENSER
TR	TRANSOM
TOS	TOP OF SLAB
TOS	TOP OF STEEL
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED
VB	VAPOR BARRIER
V.I.F.	VERIFY IN FIELD
VEST.	VESTIBULE
WC	WATER CLOSET
WD	WOOD
WG	WIRE GLASS
W/O	WITHOUT
WP	WATER PROOFING
WP	WORKING POINT
WSCT	WAINSCOT
Z	ZONE

GENERAL NOTES

1. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIEDOWNS. PROVIDE ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING THE COURSE OF DEMOLITION AND CONSTRUCTION. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.

2. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL HEALTH AND SAFETY ACT.

3. THE CONTRACTOR SHALL VISIT THE SITE TO REVIEW AND SURVEY EXISTING CONDITIONS TO FULLY UNDERSTAND THE SCOPE OF WORK.

4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPLICATIONS, AND PAY ALL APPLICATION FEES.

5. IF THE CONTRACTOR PERFORMS OR PROCEEDS WITH ANY WORK CONTRARY TO THE APPLICABLE LAWS, ORDINANCES, RULES, AND REGULATIONS WITHOUT GIVING PRIOR WRITTEN NOTICE TO THE ARCHITECT HE SHALL ASSUME FULL RESPONSIBILITY THEREFORE AND SHALL BEAR ALL COST ATTRIBUTABLE THERTO.

6. THE WORK SHALL CONFORM WITH THE APPLICABLE EDITIONS OF REQUIRED CODES DESIGNATED CONTRACT DOCUMENTS AND SPECIFICATIONS.

7. THE CONTRACTOR SHALL CAREFULLY STUDY THE CONTRACT DOCUMENTS PRIOR TO THE CONSTRUCTION AND SHALL REPORT TO THE ARCHITECT ANY ERROR, INCONCSISTENCY, OR OMISSION THEY MAY DISCOVER AND SHALL NOT PROCEED WITH THE WORK UNTIL THE INTENT OF THE DOCUMENT IS VERIFIED BY THE ARCHITECT.

8. ALL DRAWINGS, SPECIFICATIONS, AND CONSTRUCTION NOTES FORMING PART OF THE CONSTRUCTION DUCMENTS ARE COMPLEMENTARY AND WHAT IS CALLED FOR BY ONE WILL BE BINDING AS IF CALLED FOR BY ALL; ANY WORK SHOWN OR RENDERED ON ANY ONE DOCUMENT SHALL BE PROVIDED AS THOUGH SHOWN ON ALL DOCUMENTS.

9. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD BEFORE COMMENCING CONSTRUCTION AND AS NECESSARY FOR SHOP DRAWINGS REQUIRING FIELD INFORMATION.

10. EXISTING SERVICES ARE TO REMAIN, BE PROTECTED AND/OR TO BE OPERATIONAL DURING DEMOLITION AND CONSTRUCTION. CONTRACTOR TO BE RESPONSIBLE FOR PROTECTION OF THE RESTORATION OF THE SERVICES, AS WELL AS PROVISION OF TEMPORARY UTILITY SERVICES.

11. NOTIFY MIDWESTERN STATE UNIVERSITY WHEN IT IS NECESSARY TO AFFECT UTILITIES BEFORE PROCEEDING WITH WORK. ALL EXISTING UTILITIES MUST BE CHECKED BY THE CONTRACTOR BEFORE ANY WORK COMMENCES. ANY DAMAGES RESULTING FROM LACK OF COMPLIANCE WITH THIS PROVISION SHOULD BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE.

12. ANY SUBSTITUTIONS OR CHANGES MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.

EXISTING CONDITIONS

1. EXISTING CONDITIONS OBTAINED FROM AVAILABLE SOURCES (EXISTING DRAWINGS, FIELD SURVEYS, ETC.) ARE NOT GUARANTEED TO BE TRUE AND EXACT. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE AFFECTED PORITION OF THE WORK.

2. SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION OF EXISTING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE DEMOLITION PROCEDURES AND SEQUENCE TO ENSURE STABILITY AND SAFETY DURING DEMOLITION. THIS INCLUDES BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY SHORING AND BRACING NECESSARY TO SUPPORT AND PREVENT DAMAGE TO REMAINING CONSTRUCTION.

TENANT SAFETY NOTES

1. GENERAL: ALL WORK TO BE COMPLETED IN ACCORDANCE WITH TEXAS BUILDING CODE AND REGULATION OF ALL OTHER AGENCIES HAVING JURISDICTION.

2. MEANS OF EGRESS: ALL EXISTING MEANS OF EGRESS FOR TENANTS OF THE BUILDING TO BE MAINTAINED CLEAR AND FREE OF ALL OBSTRUCTIONS, SUCH AS BUILDING MATERIALS, TOOLS, ETC.
3. FIRE SAFETY:

(A) ALL BUILDING MATERIALS WHICH ARE STORED AT THE SITE OR AN AREA OF THE BUILDING ARE TO BE STORED IN A LOCKED AREA. ACCESS TO THE AREA TO BE CONTROLLED BY THE OWNER AND GENERAL CONTRACTOR.

(B) ALL MATERIALS TO BE STORED IN AN ORDERLY FASHION.

(C) ALL FLAMMABLE MATERIALS ARE TO BE KEPT TIGHTLY SEALED IN THEIR RESPECTIVE MANUFACTURER'S CONTAINERS. SUCH MATERIALS ARE TO BE KEPT AWAY FROM HEAT.

(D) ALL FLAMMABLE MATERIALS TO BE USED AND STORED IN AN ADEQUATELY VENTILATED SPACE.

(E) ALL ELECTRICAL POWER TO BE SHUT OFF WHERE THERE ARE EXPOSED CONDUITS.

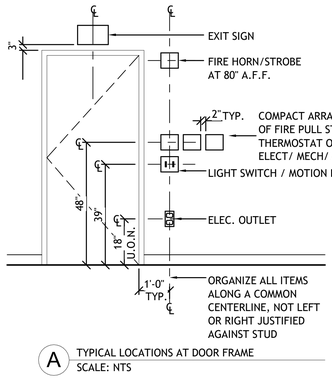
(F) ALL ELECTRICAL POWER IN THE CONSTRUCTION AREA TO BE SHUT OFF AFTER WORKING HOURS.

(G) CONTRACTOR AT ALL TIMES SHALL ENSURE THERE IS NO NATURAL GAS LEAKAGE IN THE BUILDING, OR ANY FLAMMABLE GAS TO BE USED DURING CONSTRUCTION.

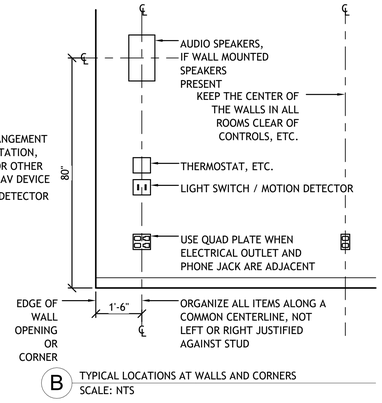
DEVICE LOCATIONS

NOTES:

1. PRIOR TO INSTALLING CONDUIT, CONTRACTORS SHALL LOCATE ALL DEVICE BOXES FOR ARCHITECT AND OWNER APPROVAL.
2. IF THERE IS ANY CONFLICT WITH THESE REQUIREMENTS OR ANY ADDITIONAL DEVICES/CONTROLS BECOME REQUIRED, THE ARCHITECT SHALL BE NOTIFIED TO RESOLVE THE PLACEMENT OF THE ITEM(S) IN QUESTION PRIOR TO DEVICE AND/OR CONDUIT INSTALLATION.
3. COLOR/FINISH OF ALL DEVICES, EQUIPMENT AND COVERPLATES SUBJECT TO ARCHITECT'S APPROVAL PRIOR TO PURCHASE/INSTALLATION.
4. ALL DEVICES AND EQUIPMENT CONTROLS TO BE RECESSED WITHIN WALL, SURFACE MOUNTED BOXES ARE UNACCEPTABLE U.O.N.
5. HEIGHTS SHALL BE ULTIMATELY GOVERNED BY THE APPLICABLE LOCAL CODE AND GOVERNED BY TAS, NOTIFY ARCHITECT OF CONFLICTS PRIOR TO DEVICE AND/OR CONDUIT INSTALLATION.



A TYPICAL LOCATIONS AT DOOR FRAME
SCALE: NTS



B TYPICAL LOCATIONS AT WALLS AND CORNERS
SCALE: NTS

1 TYP. LOC. OF MECH. CONTROLS/ELEC. DEVICES/MISC. EQ. CONTROLS

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

PHASE I & PHASE II WORK

PHASE I - SUMMER 2018 (05/21/18 - 08/13/18)

1. TOILET RENOVATION ON EACH FLOOR
2. NEW ELEVATOR
3. AIR HANDLER RESTORATION
4. NEW IT CLOSETS ON EACH FLOOR

PHASE II - AUGUST 2018 (08/27/18 - 04/29/19)

1. 3RD FLOOR: DEMO, POWER, DATA, AV, FINISHES, STACKS, FURNITURE
2. 2ND FLOOR: DEMO, IT CLOSETS, SPECIAL COLLECTION, COMPUTER LAB POWER, DATA, AV, FINISHES, GS ROOMS, STACKS, FURNITURE
3. 1ST FLOOR: DEMO, NEW CONSTRUCTION, POWER, DATA, AV, FINISHES, GS ROOMS, STACKS FURNITURE

3 PHASES

CODES

CODE COMPLIANCE SUMMARY

THE AUTHORITY HAVING JURISDICTION IS MIDWESTERN STATE UNIVERSITY

APPLICABLE CODES:

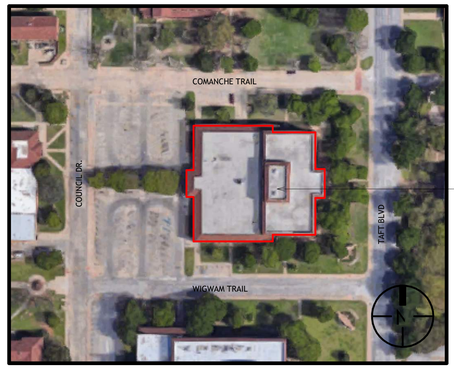
BUILDING CODE	INTERNATIONAL BUILDING CODE (IBC)	2015 EDITION
BUILDING CODE	INTERNATIONAL EXISTING BUILDING CODE (IEBC)	2015 EDITION
PLUMBING CODE	NATIONAL STANDARD PLUMBING CODE	2015 EDITION
ELECTRICAL CODE	NATIONAL ELECTRICAL CODE	2014 EDITION
MECHANICAL CODE	INTERNATIONAL MECHANICAL CODE	2015 EDITION
FIRE PROTECTION	NFPA 13	2003 EDITION
	INTERNATIONAL FIRE CODE	2009 EDITION
LIFE SAFETY	NFPA 101 LIFE SAFETY CODE	2015 EDITION
OTHER CODES	TEXAS ACCESSIBILITY CODE	2012 EDITION
ENERGY CODE	INTERNATIONAL ENERGY CODE	2009 EDITION

CODE NOTES
NO CHANGES TO CONSTRUCTION TYPE OR OCCUPANCY

CONSTRUCTION TYPE: TYPE I-A
USE CLASSIFICATION: A-3

VICINITY MAP

PROJECT SITE MAP



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MIDWESTERN STATE UNIVERSITY
WICHITA FALLS, TEXAS

SEAL:

100% CD SUBMISSION PHASE I

ISSUE DATE: 03.19.2018

REVISION	DESCRIPTION	DATE

HMBA PROJECT NUMBER: 06113.00

GENERAL NOTES

A-020

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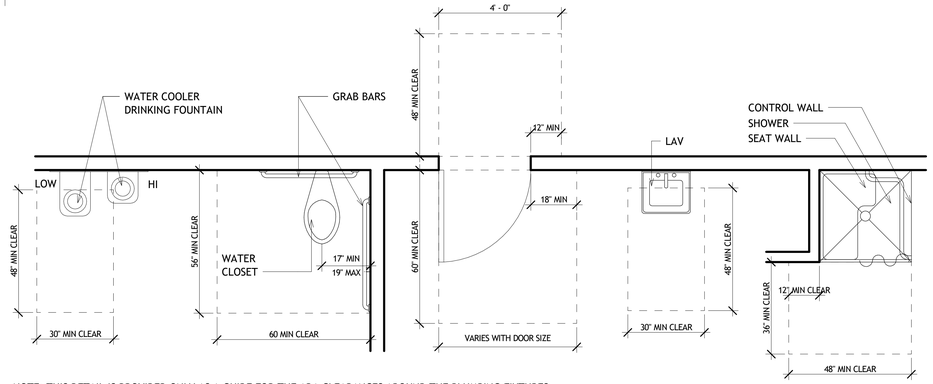
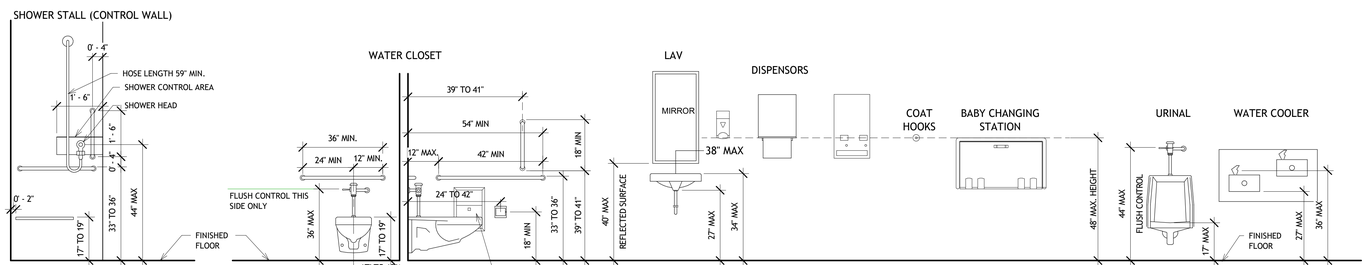
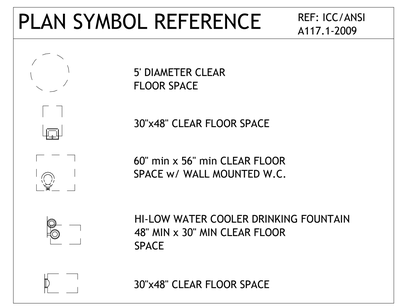


NOTE: THIS DETAIL IS PROVIDED ONLY AS A GUIDE FOR THE ADA CLEARANCES AROUND THE PLUMBING FIXTURES. SEE FLOOR PLAN AND SPECIFICATIONS TO DETERMINE THE SPECIFIC DIMENSIONS.



NOTE: THIS DETAIL IS PROVIDED ONLY AS A GUIDE FOR THE MOUNTING HEIGHTS OF VARIOUS RESTROOM FIXTURES. SEE FLOOR PLAN AND SPECIFICATIONS TO DETERMINE THE SPECIFIC FIXTURES TO BE PROVIDED

1 ADA CLEARANCES
SCALE: 1/2" = 1'-0"



2 PLAN SYMBOL REFERENCE
SCALE: 12" = 1'-0"

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LIBRARY

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SEAL:

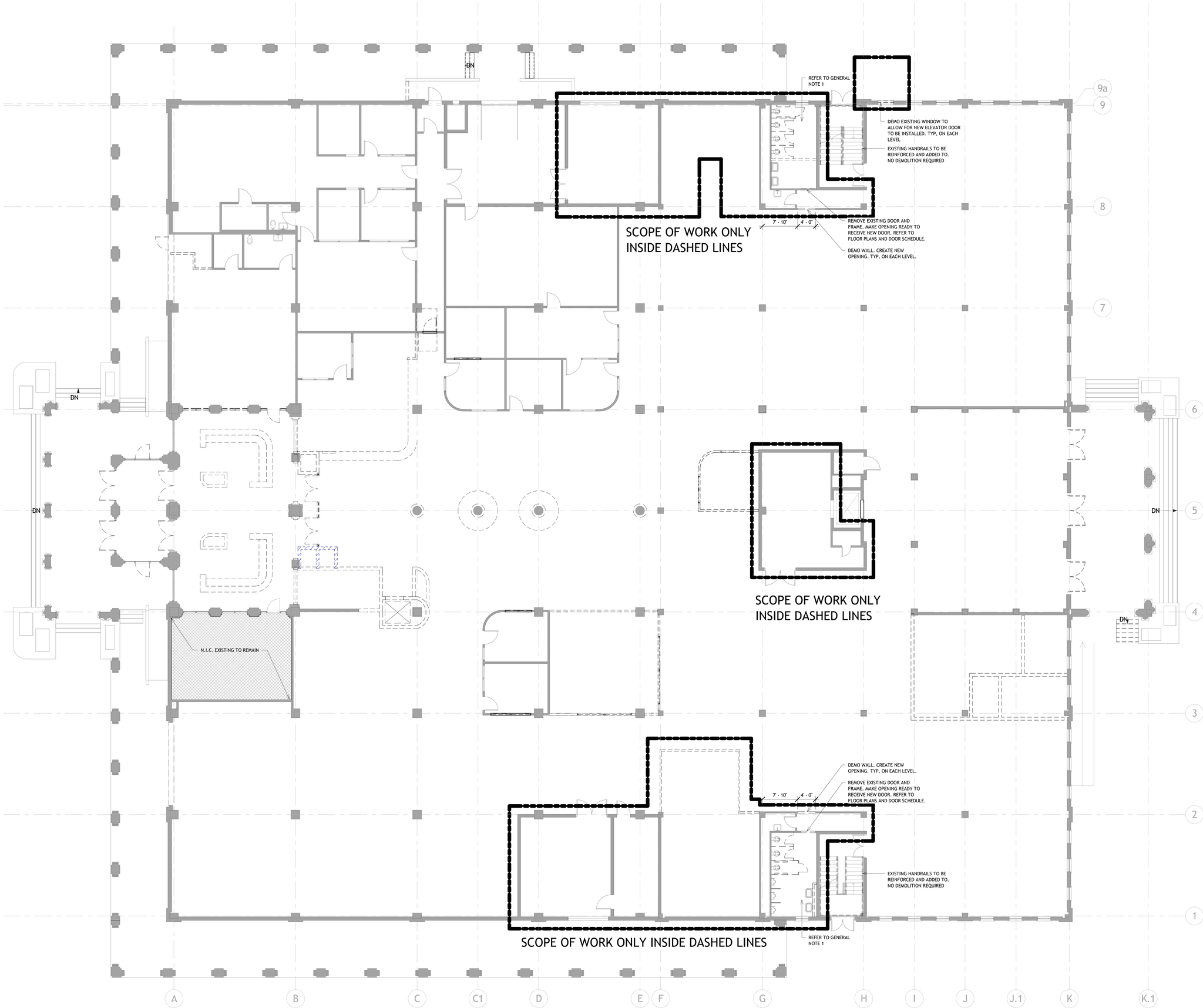
100% CD SUBMISSION
PHASE I
ISSUE DATE: 03.19.2018

REVISION	DESCRIPTION	DATE

HMBA PROJECT NUMBER: 06113.00

GENERAL NOTES

A-021



LEGEND

EXISTING TO DEMO

EXISTING TO REMAIN

PHASE LEGEND

PHASE I - WORK TO BE COMPLETED IN 2018

PHASE II - WORK TO BE COMPLETED IN 2019

NOT IN SCOPE

GENERAL NOTES

1. REMOVE AND DISCARD ALL (100%) EXISTING BATHROOM FINISHES ON EACH FLOOR, TOILETS, SINKS, WALL TILES AND FLOOR TILES; PREPARE SURFACES TO RECEIVE NEW FINISHES, TOILETS, SINKS, FLOOR AND WALL TILES. EXISTING CEILNG TO REMAIN.

2. REMOVE AND DISCARD ALL (100%) FIXED MILLWORK COUNTERS AND BOOKSHELVES IN ALL STUDY ROOMS. PREPARE SURFACES TO RECEIVE NEW PAINT AND FINISHES.

3. CAREFULLY PROTECT EXISTING DOORS AND FRAMES TO REMAIN.

4. PROVIDE ALL LABOR, EQUIPMENT, AND SERVICES FOR ALL DEMOLITION WORK, INCLUDING REMOVAL FROM SITE, AS INDICATED ON DEMOLITION DRAWINGS.

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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FIRST FLOOR DEMOLITION PLAN

D-101

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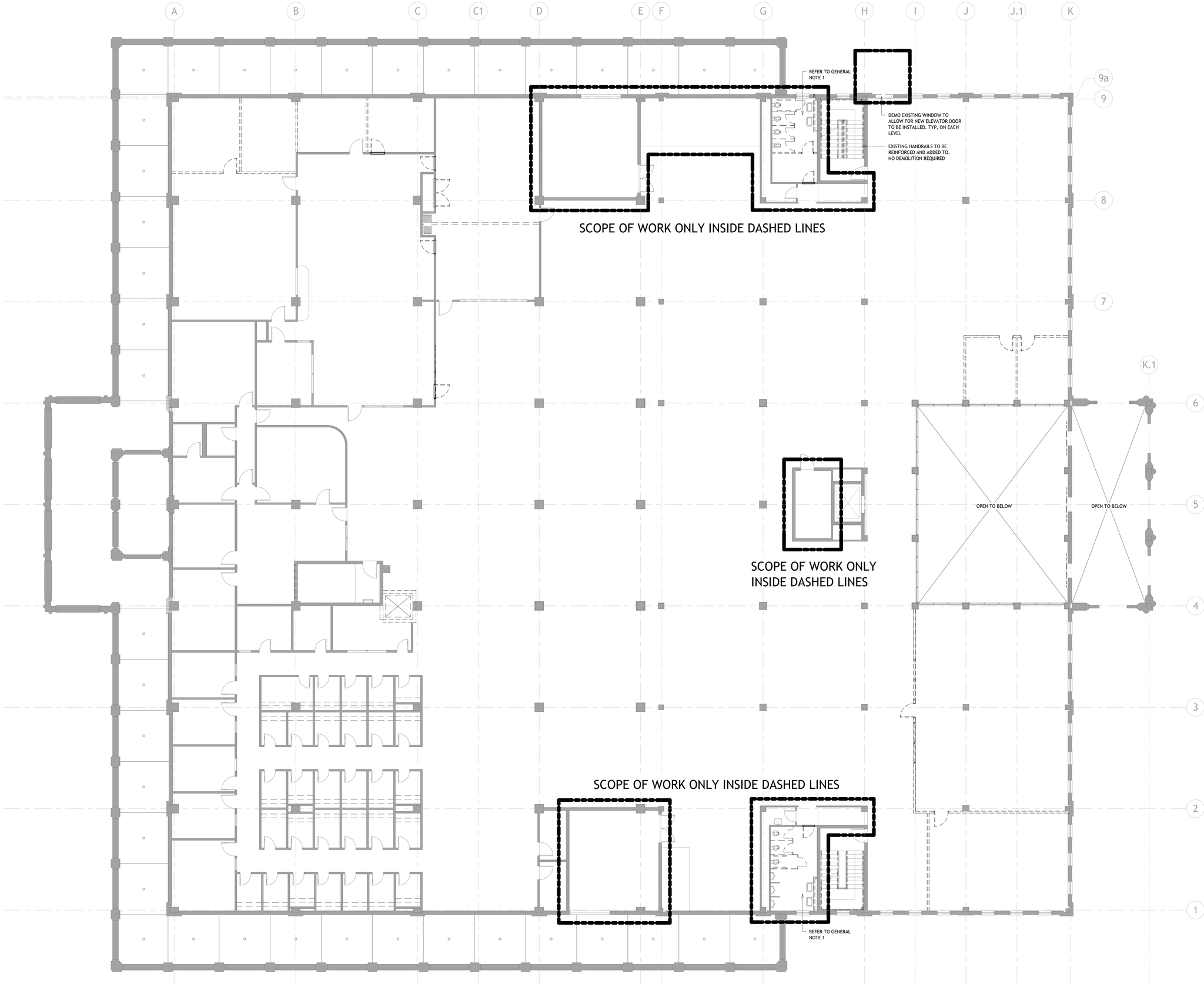
1 FIRST FLOOR DEMOLITION PLAN

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



LEGEND

- EXISTING TO DEMO
- EXISTING TO REMAIN

PHASE LEGEND

- PHASE I - WORK TO BE COMPLETED IN 2018
- PHASE II - WORK TO BE COMPLETED IN 2019
- NOT IN SCOPE

GENERAL NOTES

1. REMOVE AND DISCARD ALL (100%) EXISTING BATHROOM FINISHES ON EACH FLOOR, TOILETS, SINKS, WALL TILES AND FLOOR TILES; PREPARE SURFACES TO RECEIVE NEW FINISHES, TOILETS, SINKS, FLOOR AND WALL TILES. EXISTING CEILING TO REMAIN.

2. REMOVE AND DISCARD ALL (100%) FIXED MILLWORK COUNTERS AND BOOKSHELVES IN ALL STUDY ROOMS. PREPARE SURFACES TO RECEIVE NEW PAINT AND FINISHES.

3. CAREFULLY PROTECT EXISTING DOORS AND FRAMES TO REMAIN.

4. PROVIDE ALL LABOR, EQUIPMENT, AND SERVICES FOR ALL DEMOLITION WORK, INCLUDING REMOVAL FROM SITE, AS INDICATED ON DEMOLITION DRAWINGS.

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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MIDWESTERN STATE UNIVERSITY

WICHITA FALLS, TEXAS

SEAL:

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ISSUE DATE: 03.19.2018

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HMBA PROJECT NUMBER: 06113.00

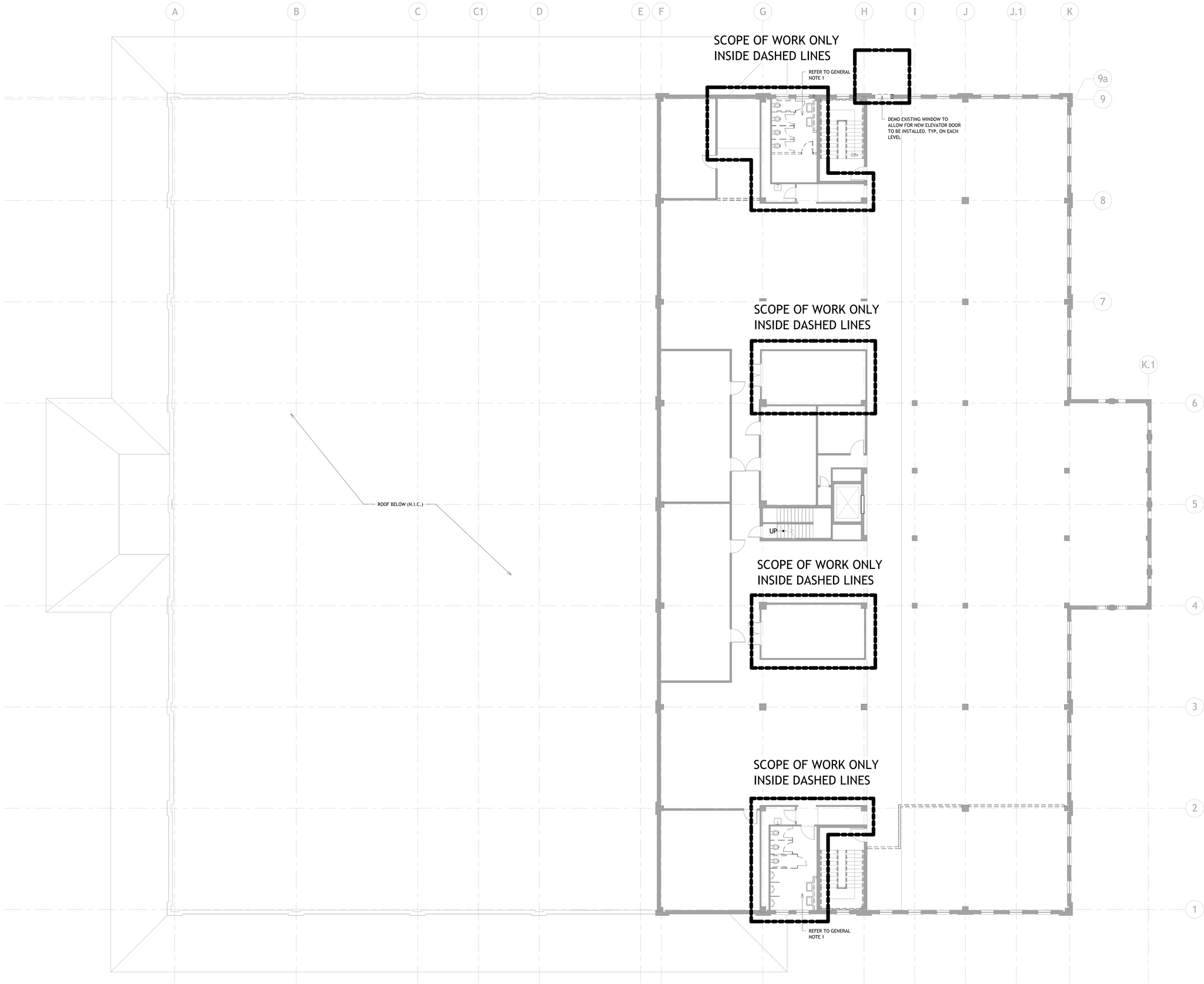
SECOND FLOOR DEMOLITION PLAN

D-102

3/16/2018 5:07:16 PM

1 SECOND FLOOR DEMOLITION PLAN

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



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1 THIRD FLOOR DEMOLITION PLAN

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

LEGEND

- EXISTING TO DEMO
- EXISTING TO REMAIN

PHASE LEGEND

- PHASE I - WORK TO BE COMPLETED IN 2018
- PHASE II - WORK TO BE COMPLETED IN 2019
- NOT IN SCOPE

GENERAL NOTES

1. REMOVE AND DISCARD ALL (100%) EXISTING BATHROOM FINISHES ON EACH FLOOR, TOILETS, SINKS, WALL TILES AND FLOOR TILES; PREPARE SURFACES TO RECEIVE NEW FINISHES, TOILETS, SINKS, FLOOR AND WALL TILES. EXISTING CEILNG TO REMAIN.

2. REMOVE AND DISCARD ALL (100%) FIXED MILLWORK COUNTERS AND BOOKSHELVES IN ALL STUDY ROOMS. PREPARE SURFACES TO RECEIVE NEW PAINT AND FINISHES.

3. CAREFULLY PROTECT EXISTING DOORS AND FRAMES TO REMAIN.

4. PROVIDE ALL LABOR, EQUIPMENT, AND SERVICES FOR ALL DEMOLITION WORK, INCLUDING REMOVAL FROM SITE, AS INDICATED ON DEMOLITION DRAWINGS.

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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THIRD FLOOR DEMOLITION PLAN

D-103

LEGEND

EXISTING TO DEMO

EXISTING TO REMAIN

PHASE LEGEND

PHASE I - WORK TO BE COMPLETED IN 2018

PHASE II - WORK TO BE COMPLETED IN 2019

NOT IN SCOPE

GENERAL NOTES

1. REMOVE AND DISCARD ALL (100%) EXISTING BATHROOM FINISHES ON EACH FLOOR, TOILETS, SINKS, WALL TILES AND FLOOR TILES; PREPARE SURFACES TO RECEIVE NEW FINISHES, TOILETS, SINKS, FLOOR AND WALL TILES. EXISTING CEILNG TO REMAIN.

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1 ROOF DEMOLITION PLAN

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

ROOF DEMOLITION PLAN

D-104

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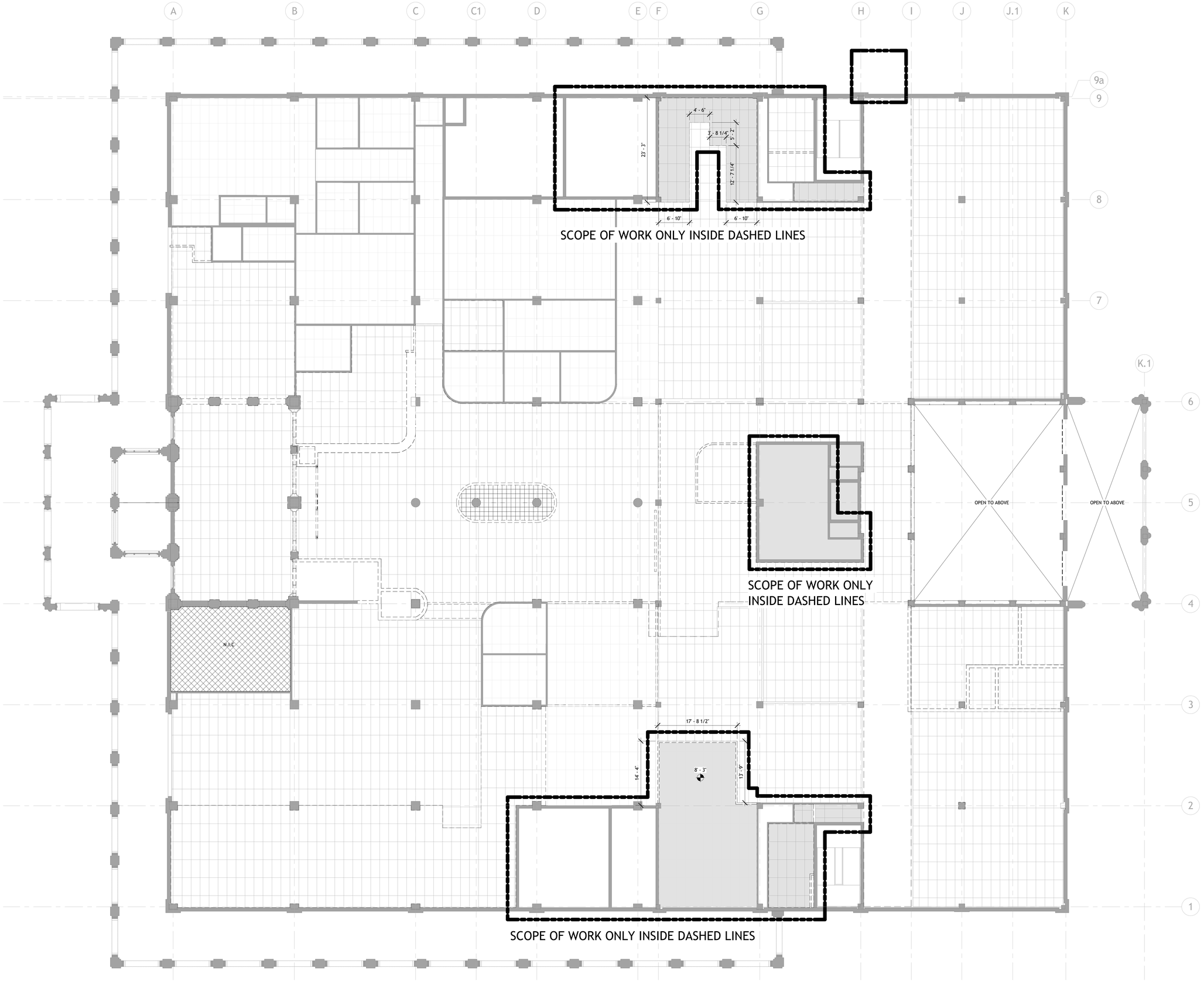

DEMO LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED

PHASE LEGEND

- PHASE I - WORK TO BE COMPLETED IN 2018
- PHASE II

DEMOLITION NOTES:

1. PROVIDE ALL LABOR, EQUIPMENT AND SERVICES FOR ALL DEMOLITION WORK, INCLUDING REMOVAL FROM SITE, AS INDICATED ON DEMOLITION DRAWINGS.
2. BEFORE COMMENCING ANY DEMOLITION WORK, REVIEW WITH THE ARCHITECT THE INTENT REGARDING THE SALVAGE, REUSE AND FINAL DISPOSITION OF ANY EXISTING ITEMS OR EQUIPMENT.
3. CONTRACTOR SHALL REVIEW AND VERIFY DIMENSIONS INDICATED ON DRAWINGS PRIOR TO START OF DEMOLITION.
4. INSTALL TEMPORARY DOORS, WINDOWS AND WALLS AS REQUIRED FOR PROTECTION OF THE PREMISES DURING THE DEMOLITION AND CONSTRUCTION OF THE PROJECT.
5. PROVIDE COVERS AS REQUIRED ON REMAINING ITEMS FOR PROTECTION DURING THE DEMOLITION AND CONSTRUCTION OF THE PROJECT.
6. CAREFULLY PROTECT AND RETURN TO CLIENT ALL EXISTING ACT TILES REMOVED FROM SPECIFIC AREAS IN THE LIBRARY AS SPECIFIED IN THE DRAWINGS.
7. WHERE PARTITIONS ARE TO BE REMOVED, THE CONTRACTOR SHALL PROVIDE ADEQUATE SCAFFOLDING AND TEMPORARY STRUCTURAL SUPPORT TO MAINTAIN THE INTEGRITY OF REMAINING WALL, PARTITION OR ASSOCIATED CONSTRUCTION.
8. REMOVE WALL SYSTEMS OR PARTITIONS, DOORS AND ALL ASSOC. STRUCTURES. SEE PLAN FOR INTENT OF REMOVAL & CLEARANCE. PREPARE BROKEN EDGES TO RECEIVE NEW PARTITION AND/OR FINISHES.
9. REMOVE EXISTING FRAMING AND SUPPORT STEEL FOR EXISTING BRICK AND WINDOWS ALONG PERIMETER IN ITS ENTIRETY. SEE DRAWINGS BELOW, TYP.
10. REMOVE EXISTING COLUMN COVERS.
11. REMOVE ALL EXISTING LAY-IN LIGHTING FIXTURES. REFER TO RCP AND ELECTRICAL DRAWINGS FOR NEW LIGHTING FIXTURES TYPES AND LOCATIONS.

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

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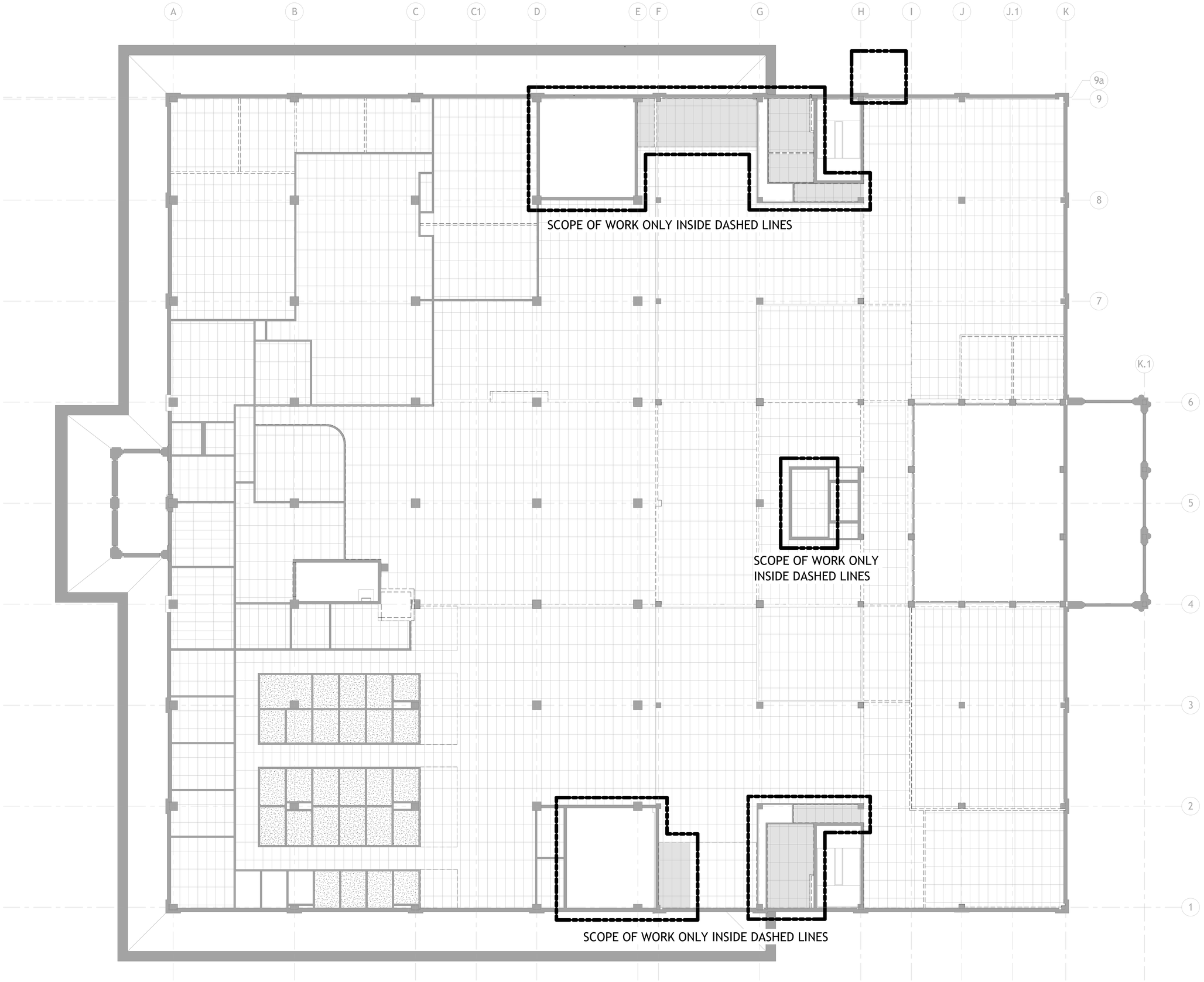
FIRST FLOOR DEMOLITION RCP

D-201



DEMO LEGEND

EXISTING TO REMAIN

EXISTING TO BE DEMOLISHED

PHASE LEGEND

PHASE I - WORK TO BE COMPLETED IN 2018

PHASE II

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HMBA PROJECT NUMBER: 06113.00

SECOND FLOOR DEMOLITION RCP

D-202

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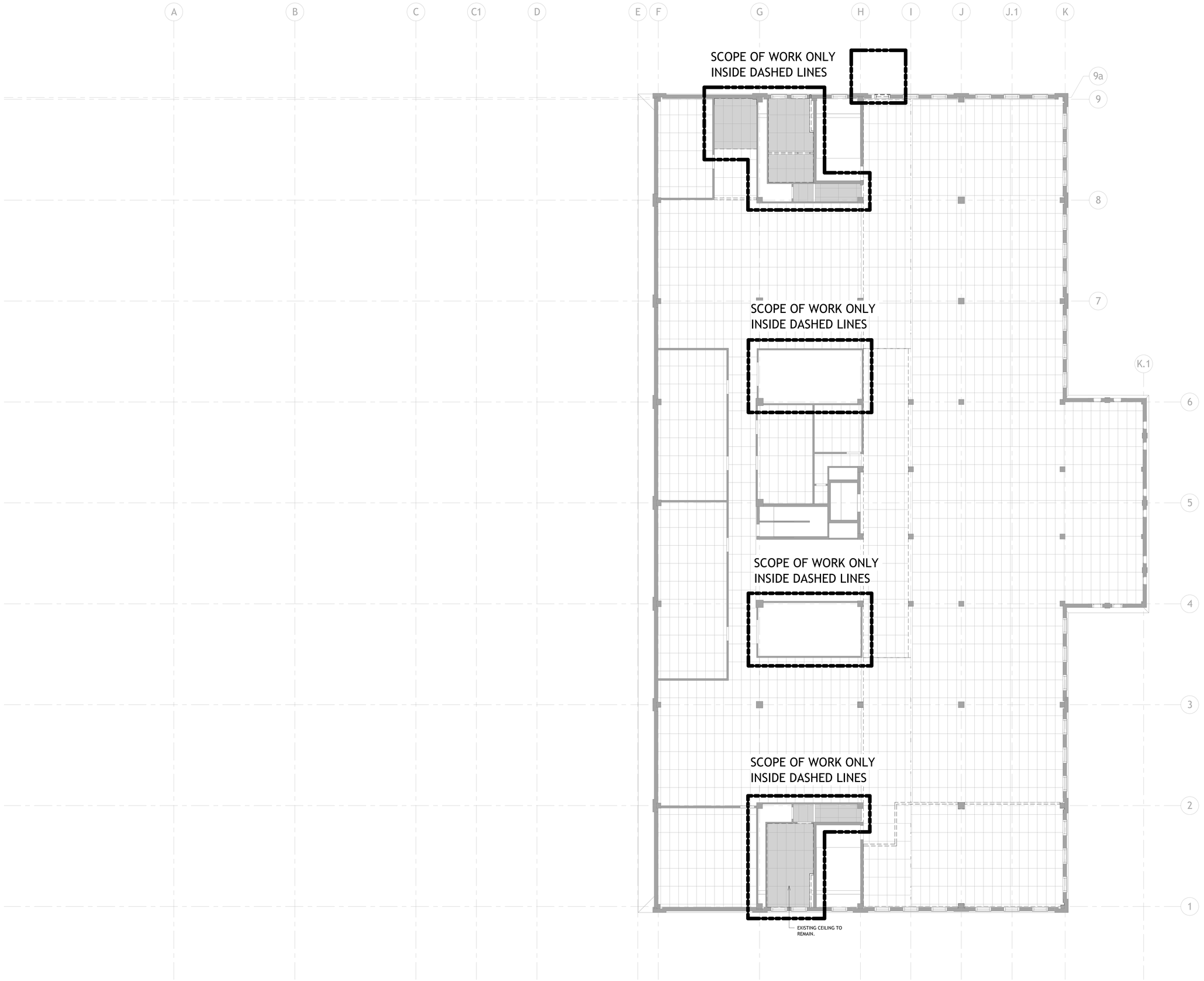
1 SECOND FLOOR RCP DEMO

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



DEMO LEGEND

EXISTING TO REMAIN

EXISTING TO BE DEMOLISHED

PHASE LEGEND

PHASE I - WORK TO BE COMPLETED IN 2018

PHASE II

DEMOLITION NOTES:

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9. REMOVE EXISTING FRAMING AND SUPPORT STEEL FOR EXISTING BRICK AND WINDOWS ALONG PERIMETER IN ITS ENTIRETY. SEE DRAWINGS BELOW. TYP.
10. REMOVE EXISTING COLUMN COVERS.
11. REMOVE ALL EXISTING LAY-IN LIGHTING FIXTURES. REFER TO RCP AND ELECTRICAL DRAWINGS FOR NEW LIGHTING FIXTURES TYPES AND LOCATIONS.

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PHASE I

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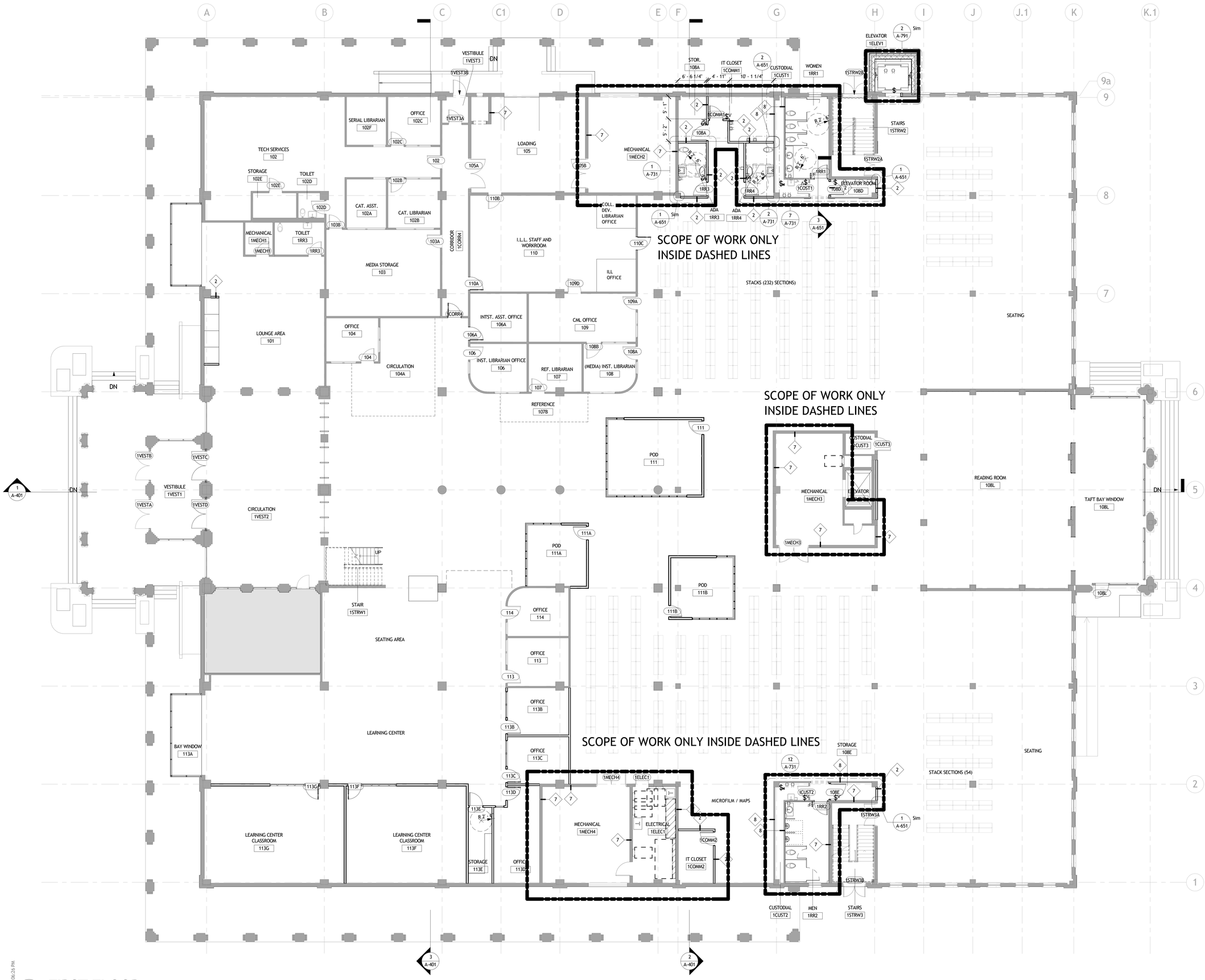
THIRD FLOOR DEMOLITION RCP

D-203

3/16/2018 5:07:19 PM

1 THIRD FLOOR RCP DEMO

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



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.

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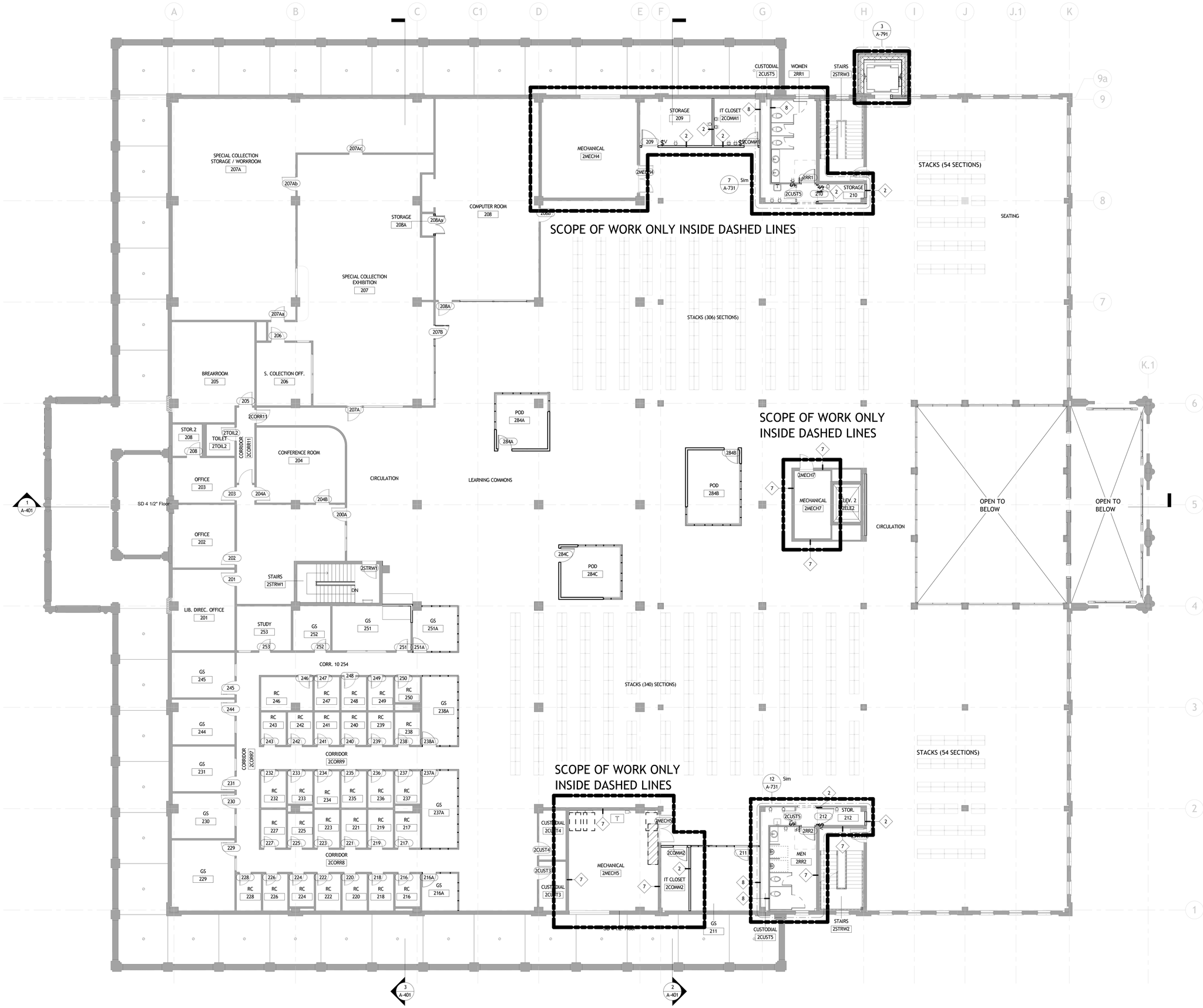
FIRST FLOOR PLAN

A-101

3/16/2018 5:06:26 PM

1 FIRST FLOOR

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



PHASE LEGEND

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

GENERAL NOTES:

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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.
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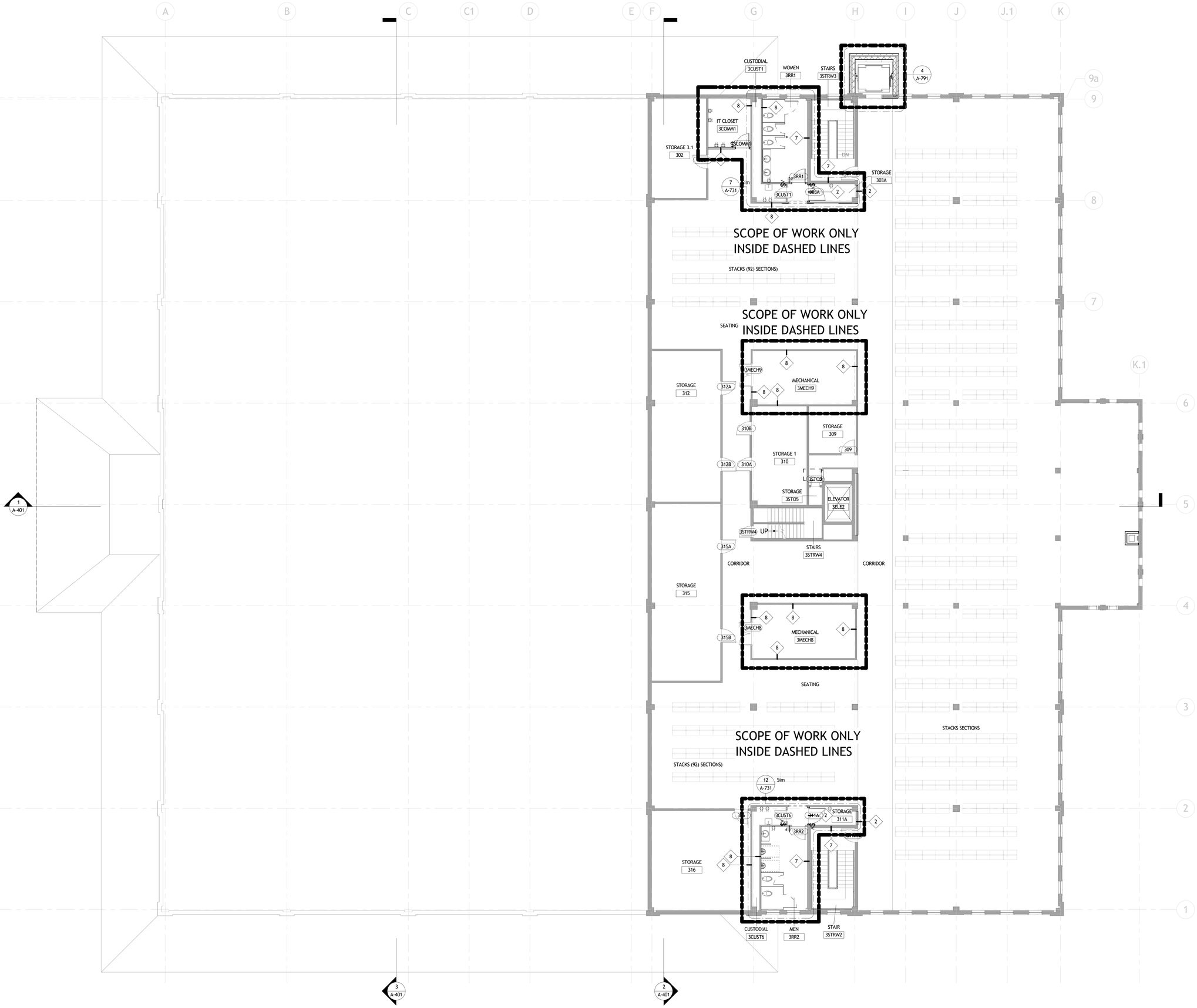
SECOND FLOOR PLAN

A-102

3/19/2018 5:06:27 PM

1 SECOND FLOOR

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



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

PHASE LEGEND

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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.

HOLZMAN MOSS BOTTINO ARCHITECTURE

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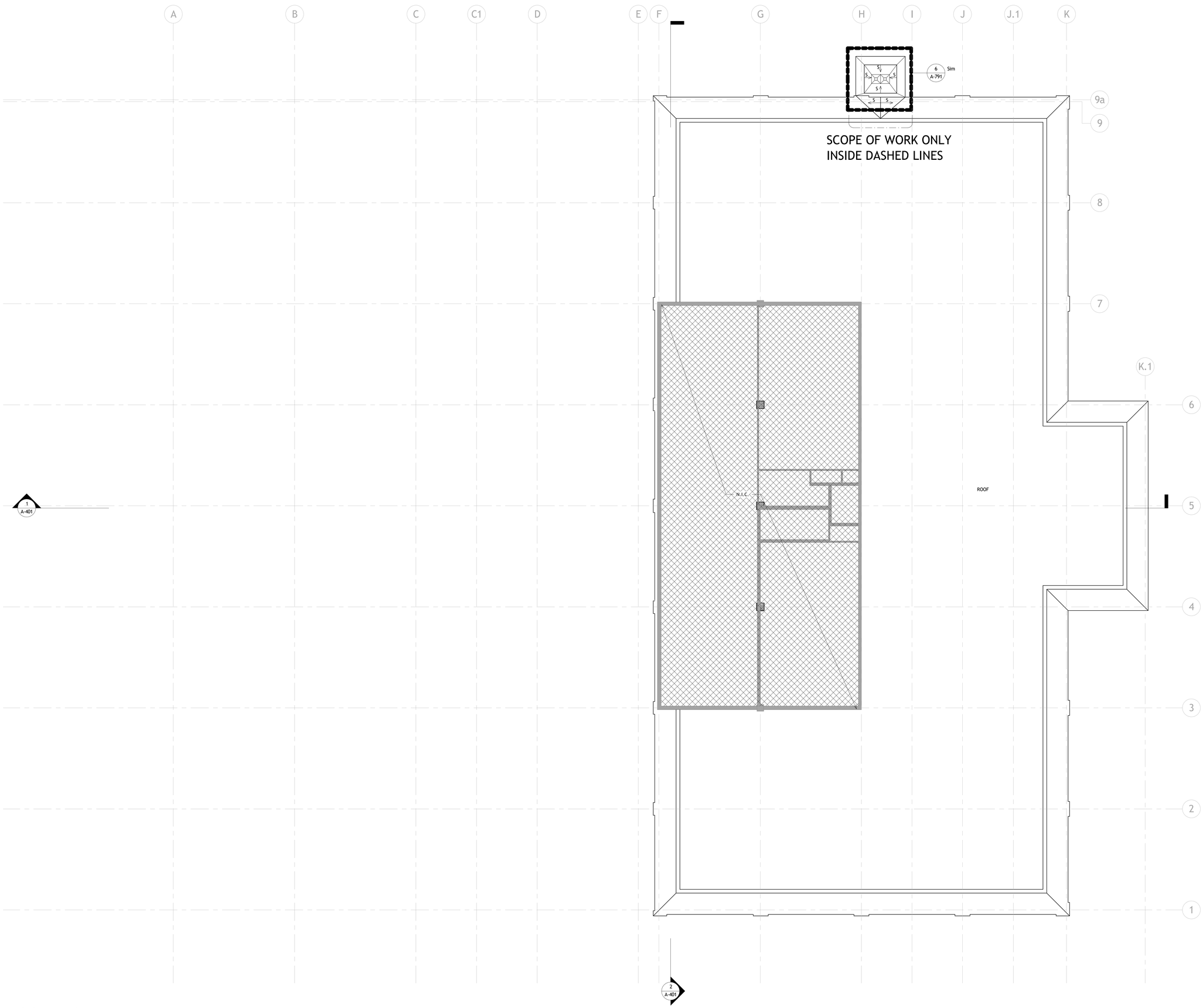
THIRD FLOOR PLAN

A-103



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:

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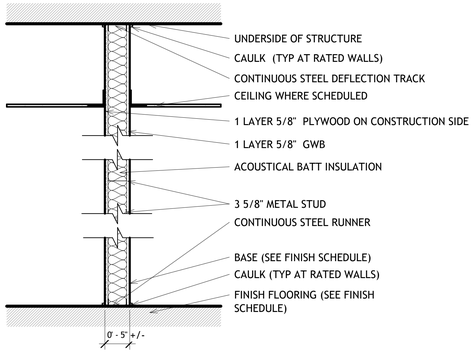
ROOF PLAN

A-104

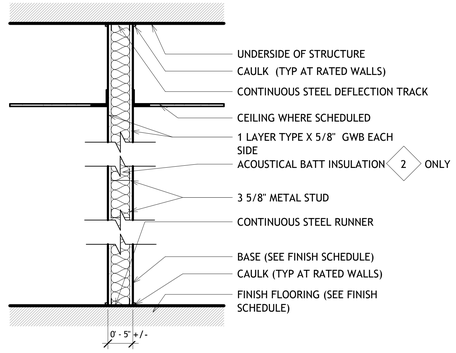
3/16/2018 5:06:28 PM

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



1 — TEMPORARY STUD PARTITION

NO RATING



2 — STUD PARTITION GWB EXTENDED TO DECK

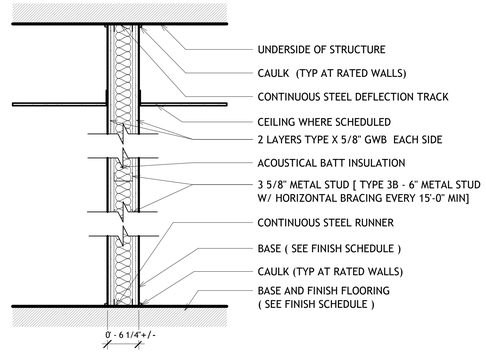
1 HOUR RATING UL REF. DES. U419

2A — SIM TO 2 W/O ACOUSTICAL BATT INSULATION

NO RATING

2B — SIM TO 2 W/ 6" METAL STUD W/ HORIZONTAL BRACING EVERY 15'-0" MIN.

1 HOUR RATING UL REF. DES. U419



3 — SINGLE ACOUSTICAL PARTITION

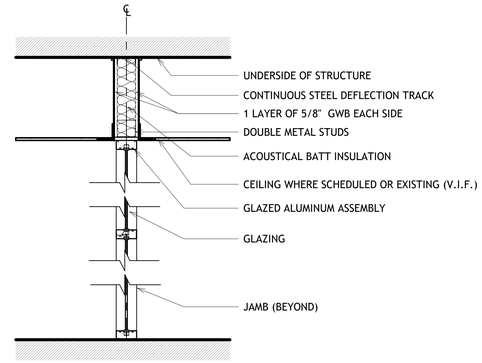
NO RATING

3A — SIM TO 3 W/ TYPE X GWB

2 HOUR RATING UL REF. DES. U419

3B — SIM TO 3 W/ TYPE X GWB & BRICK VENEER

2 HOUR RATING UL REF. DES. U419



4 — STOREFRONT PARTITION

NO RATING

5 — RATED STOREFRONT PARTITION

2 HOUR RATING

6 — FURRED OUT PARTITION

NO RATING

6A — FURRED OUT PARTITION W/ EXTRA LAYER OF GWB

NO RATING

7 — EXISTING WALL - 8" CMU W/ PLASTER

NO RATING

8 — EXISTING WALL - 4" CMU W/ PLASTER

NO RATING

9 — EXISTING PARTITION

NO RATING

2/16/2018 1:59:12 PM

HOLZMAN MOSS BOTTINO ARCHITECTURE

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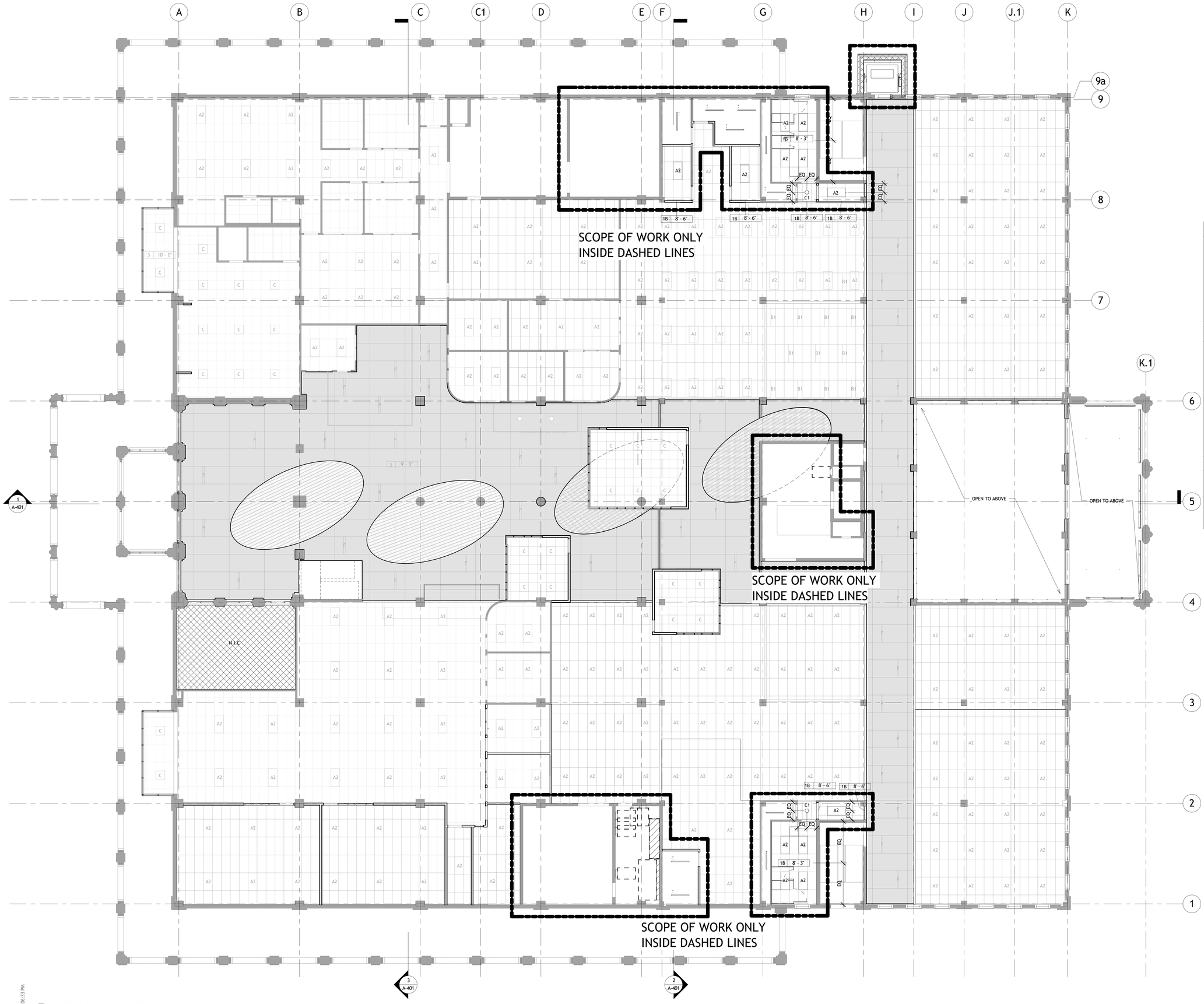
PARTITION TYPES

A-191



PHASE LEGEND

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

GENERAL NOTES:

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CEILING TYPES

CEILING TYPE — FINISHED CEILING HEIGHT A.F.F (8'-6")

- 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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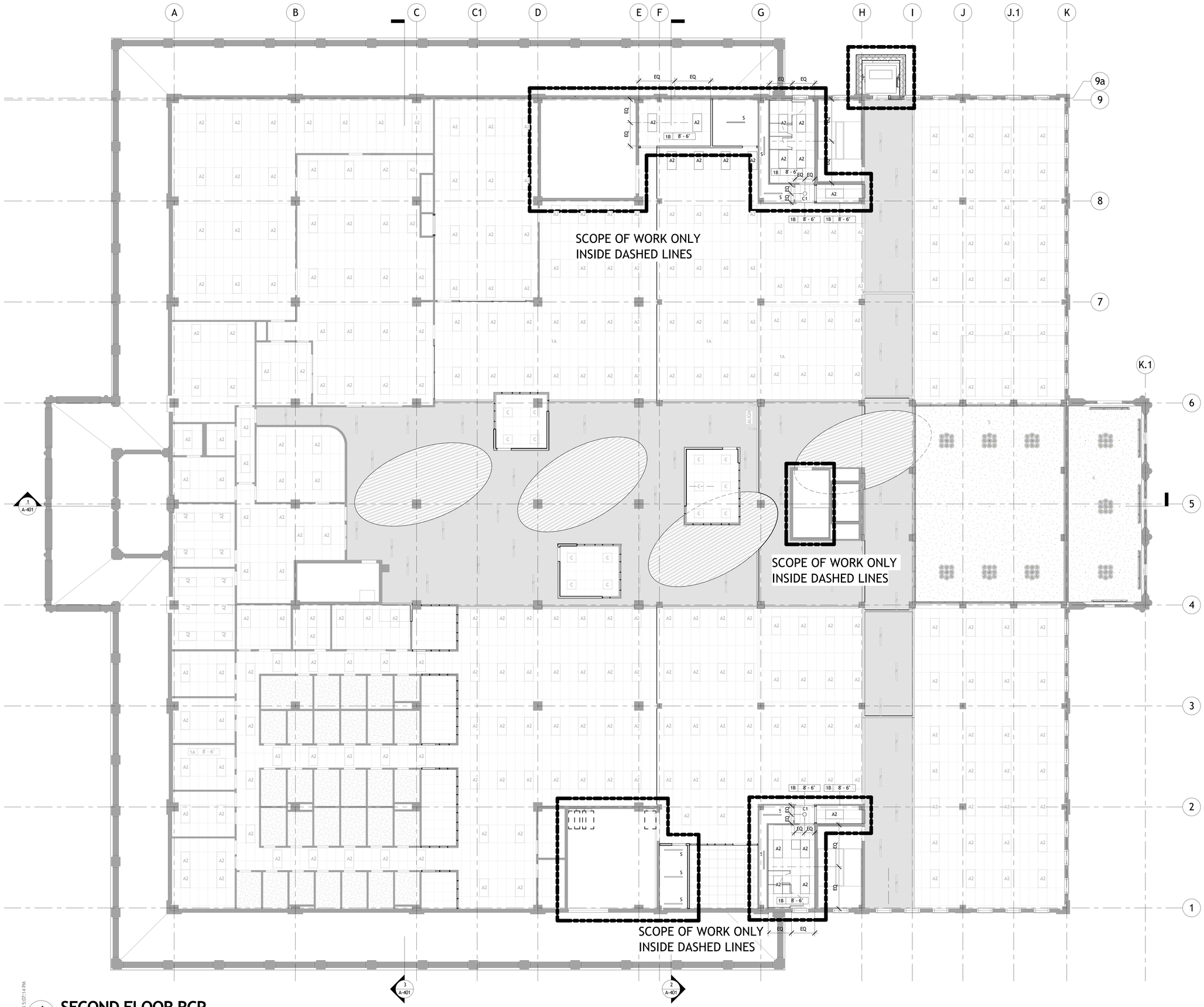
FIRST FLOOR REFLECTED CEILING PLAN

A-201

2/16/2018 5:06:33 PM

1 FIRST FLOOR RCP

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



1 **SECOND FLOOR RCP**
SCALE: 1/8" = 1'-0"

3/16/2018 5:07:14 PM

PHASE LEGEND

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- (100) DOOR NUMBER
- [100] ROOM NUMBER

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CEILING TYPES

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LIGHTING FIXTURES TYPES

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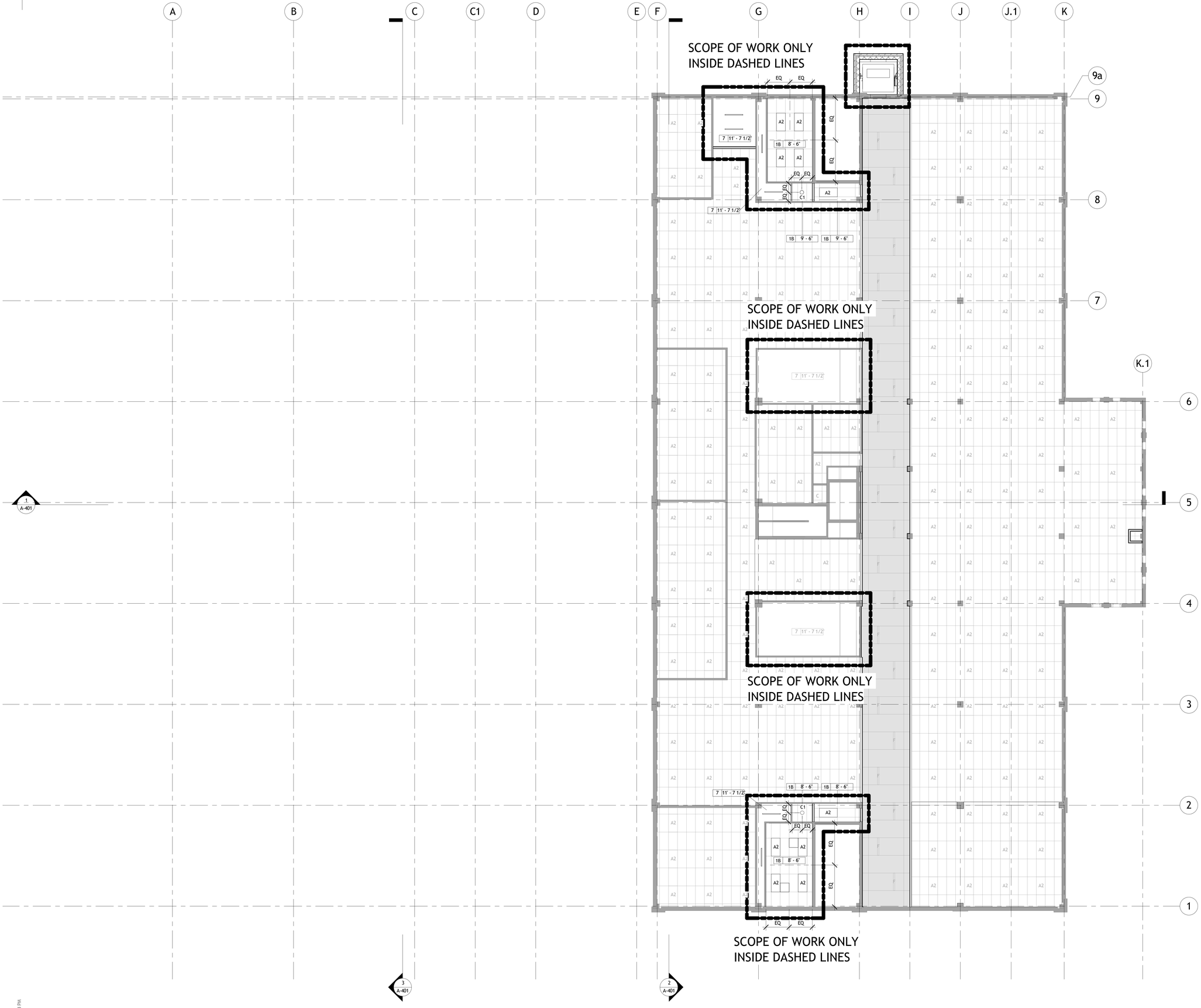
SECOND FLOOR REFLECTED CEILING PLAN

A-202



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- 100 DOOR NUMBER
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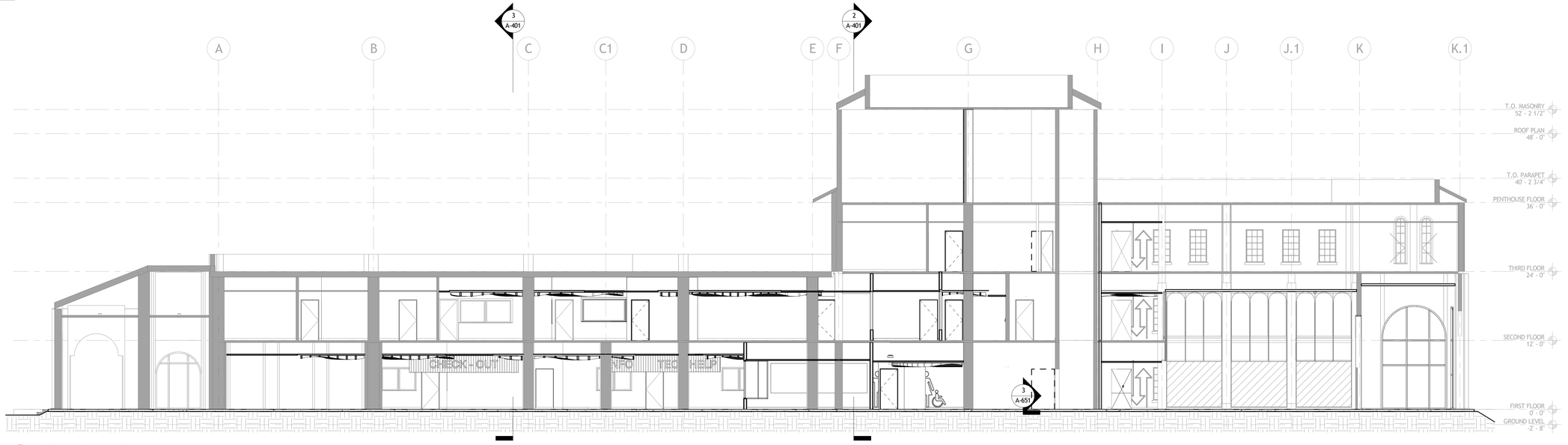
THIRD FLOOR REFLECTED CEILING PLAN

A-203

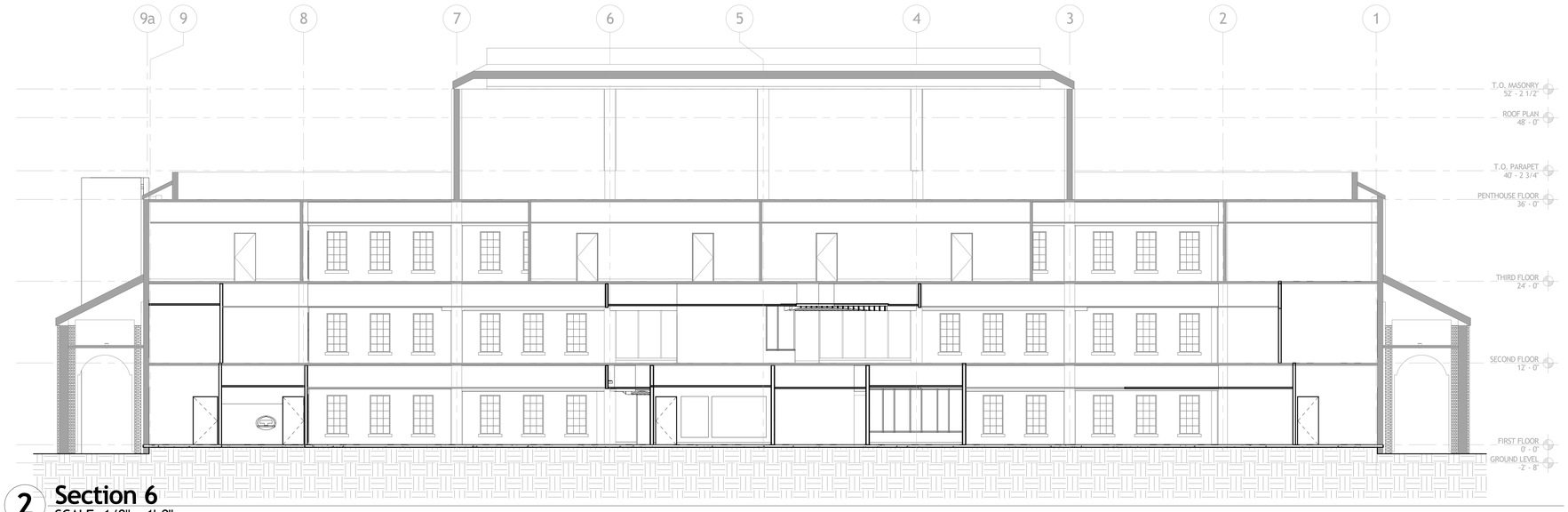
3/16/2018 5:07:14 PM

1 THIRD FLOOR RCP

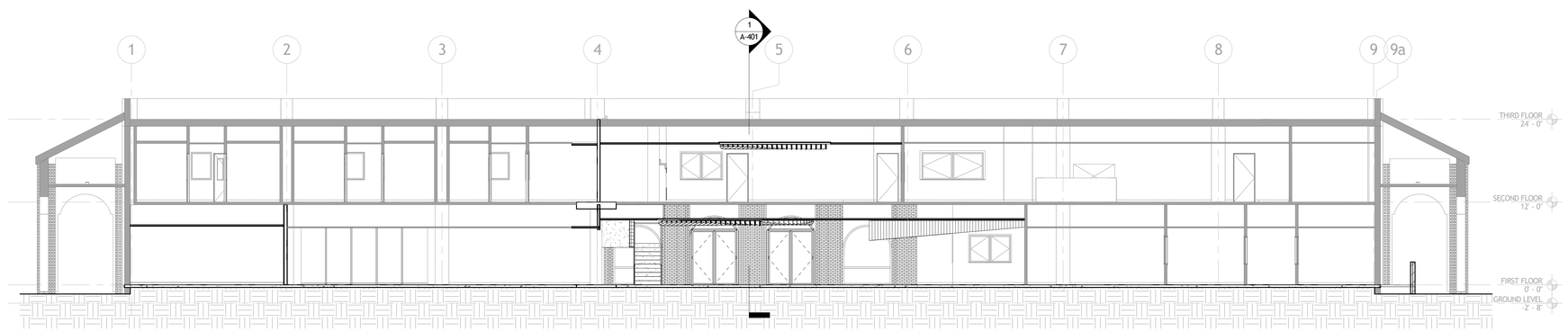
SCALE: 1/8" = 1'-0"



1 Section 5
SCALE: 1/8" = 1'-0"



2 Section 6
SCALE: 1/8" = 1'-0"



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

3/16/2018 2:00:07 PM

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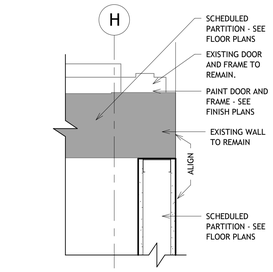
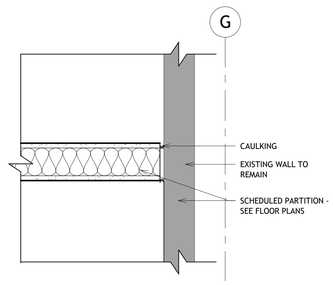
BUILDING SECTIONS

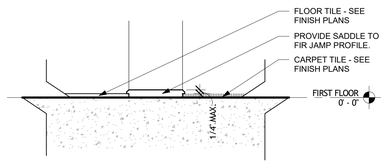
A-401



1 DETAIL @ ROOM 108D
SCALE: 1 1/2" = 1'-0"



2 DETAIL @ ROOM 1RR4
SCALE: 1 1/2" = 1'-0"



3 TYP. DOOR THRESHOLD DETAIL
SCALE: 6" = 1'-0"

3/16/2018 2:00:08 PM

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INTERIOR DETAILS

A-651

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ARCHITECTURE

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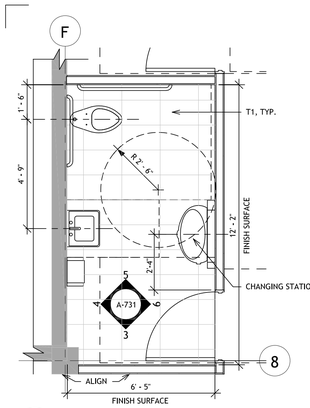
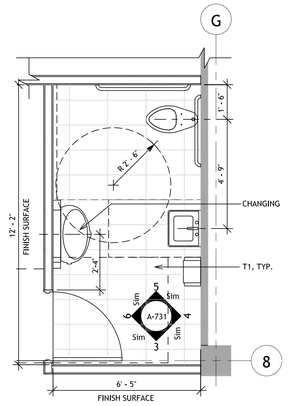
1300 SUMMIT AVE, SUITE 500
FORT WORTH, TX, 76102
T: 214-420-9111



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



2 ADA RESTROOM PLAN
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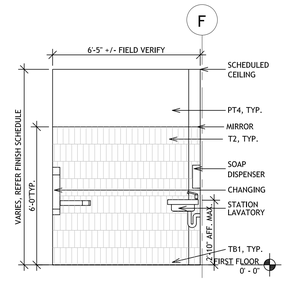
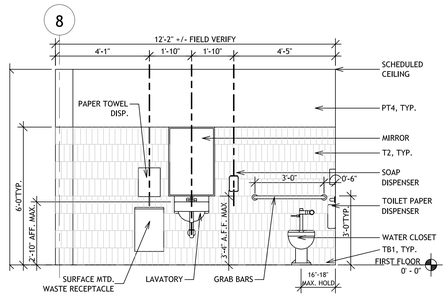
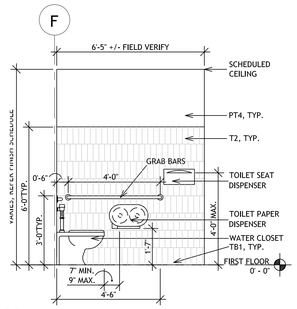


3 ADA RESTROOM ELE. 1
SCALE: 3/8" = 1'-0"



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



5 ADA RESTROOM ELE. 3
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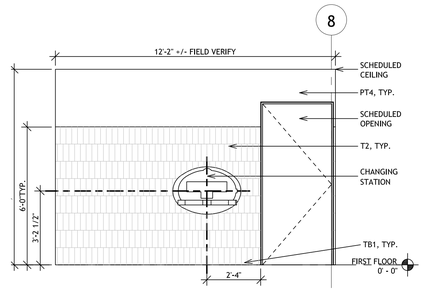
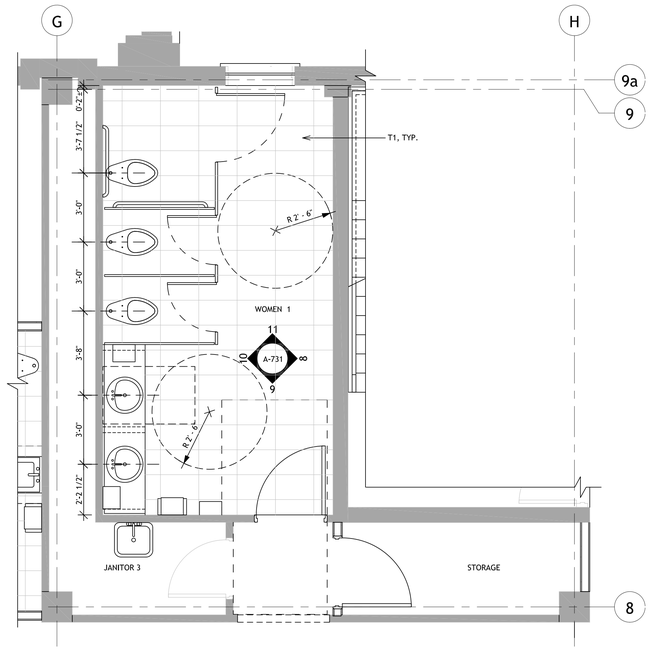
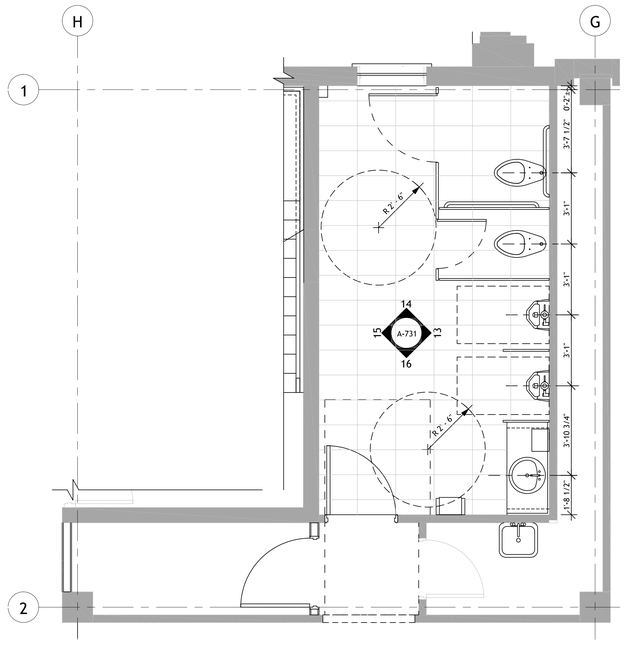


6 ADA RESTROOM ELE. 4
SCALE: 3/8" = 1'-0"



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



12 TYP. MEN'S RESTROOM PLAN
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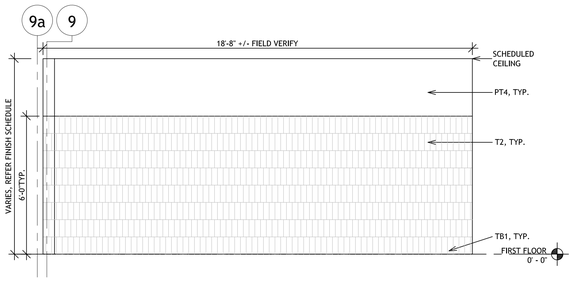
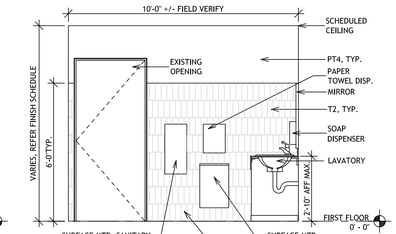
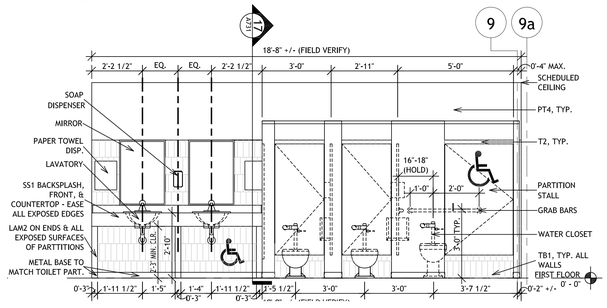


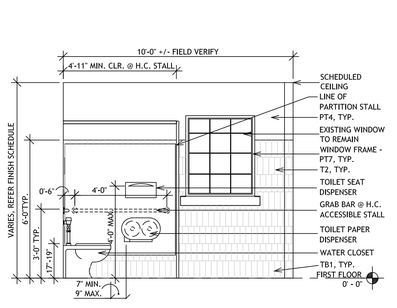
8 WOMEN RESTOOM ELE. 1
SCALE: 3/8" = 1'-0"



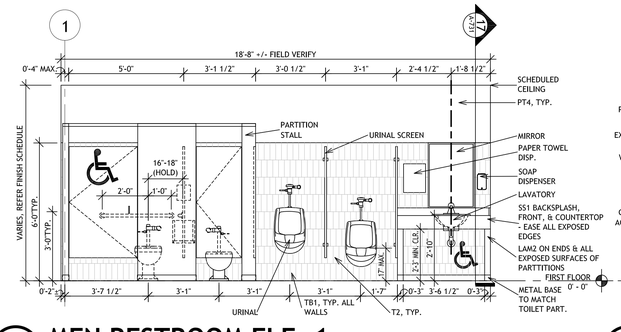
9 WOMEN RESTOOM ELE. 2
SCALE: 3/8" = 1'-0"



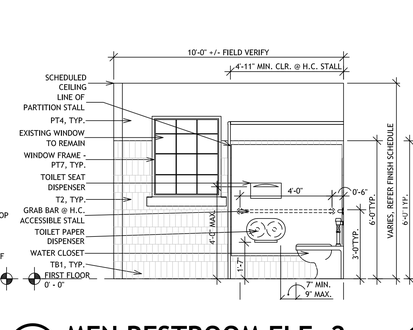
10 WOMEN RESTOOM ELE. 3
SCALE: 3/8" = 1'-0"



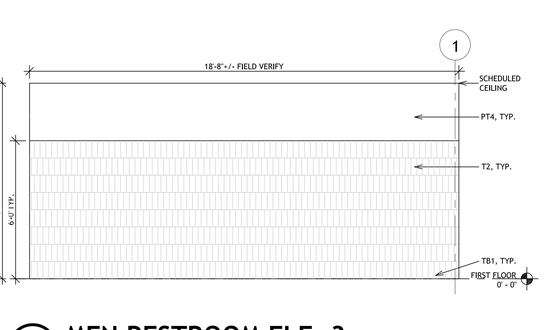
11 WOMEN RESTOOM ELE. 4
SCALE: 3/8" = 1'-0"



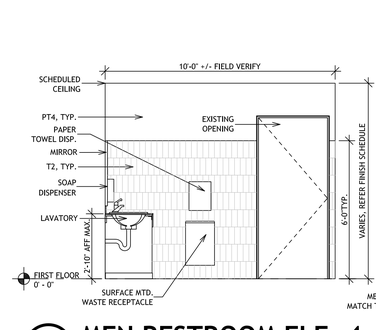
13 MEN RESTROOM ELE. 1
SCALE: 3/8" = 1'-0"



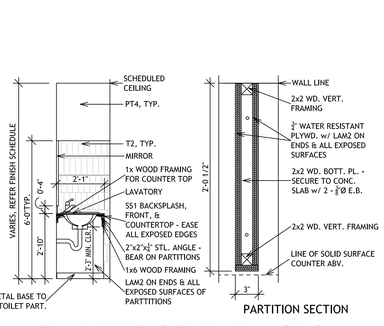
14 MEN RESTROOM ELE. 2
SCALE: 3/8" = 1'-0"



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



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



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

MSU - MOFFETT LIBRARY RENOVATION

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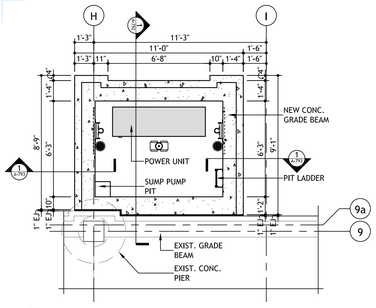
HMBA PROJECT NUMBER: 06113.00

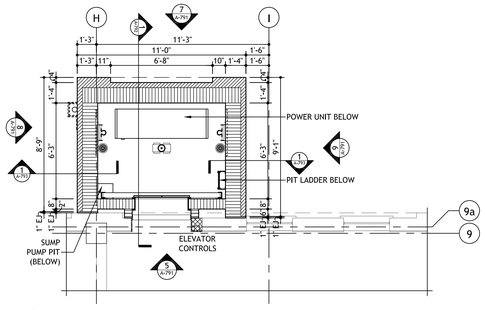
RESTROOM PLANS AND DETAILS

A-731

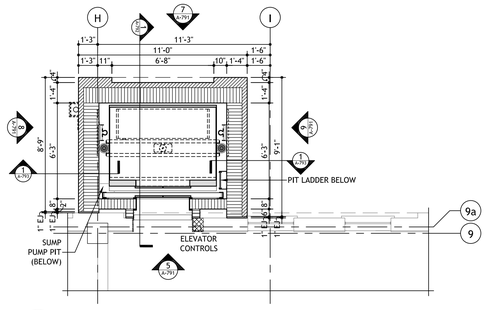
2/22/2018 4:47:00 PM



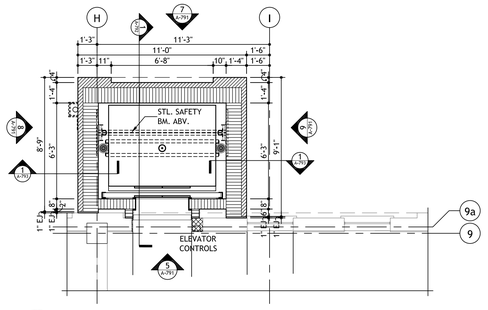
1 ELEVATOR PIT PLAN
SCALE: 1/4"=1'-0"



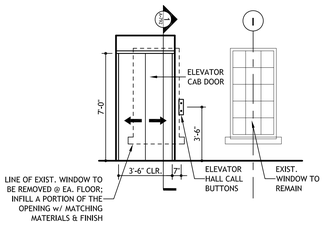
2 ELEVATOR FIRST FLOOR PLAN
SCALE: 1/4"=1'-0"



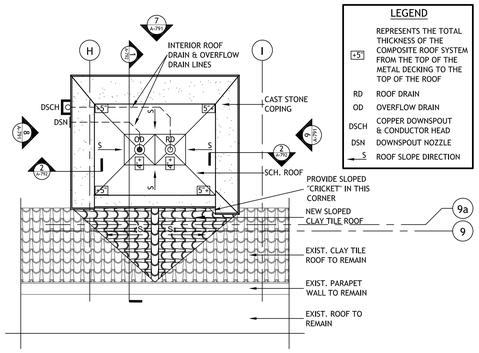
3 ELEVATOR SECOND FLOOR PLAN
SCALE: 1/4"=1'-0"



4 ELEVATOR THIRD FLOOR PLAN
SCALE: 1/4"=1'-0"



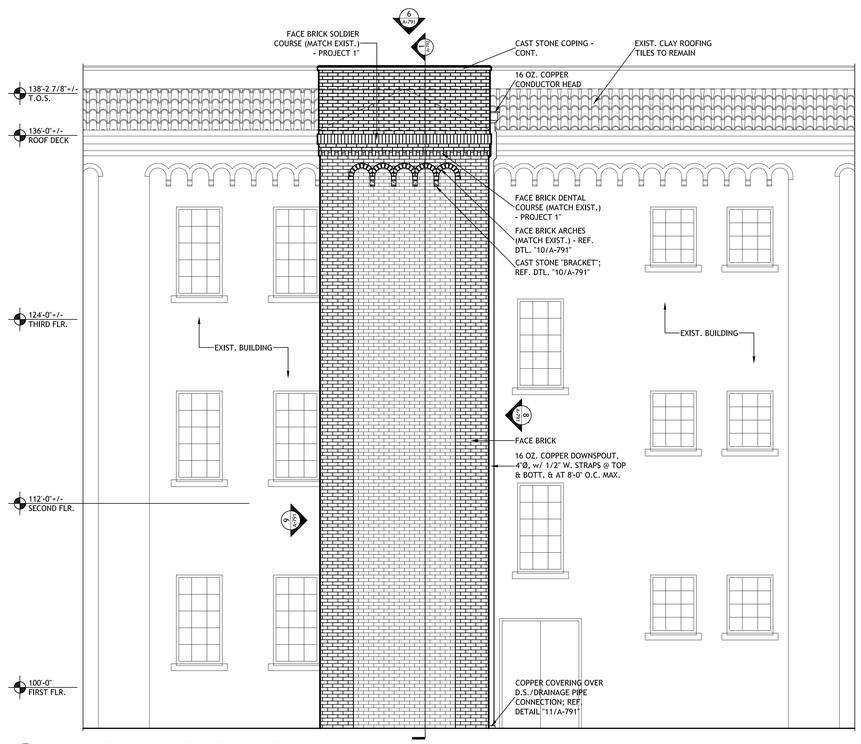
5 TYP. ELEVATION @ ELEV. DR.
SCALE: 1/4"=1'-0"



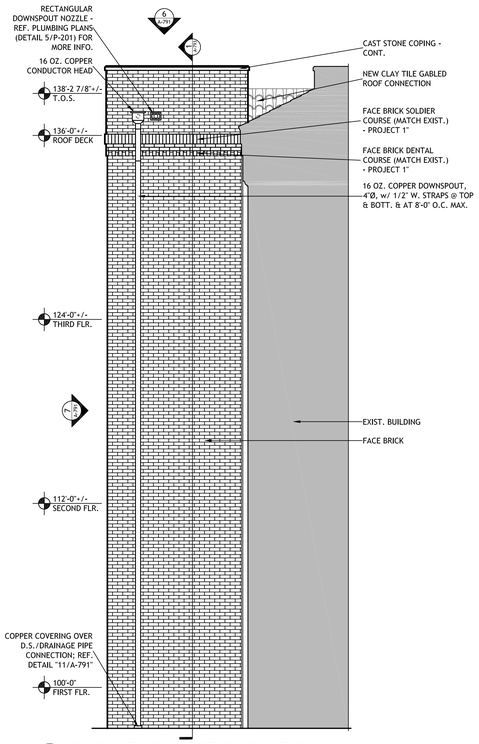
LEGEND

5	REPRESENTS THE TOTAL THICKNESS OF THE COMPOSITE ROOF SYSTEM FROM THE TOP OF THE METAL DECKING TO THE TOP OF THE ROOF
RD	ROOF DRAIN
OD	OVERFLOW DRAIN
DSCH	COPPER DOWNSPOUT & CONDUCTOR HEAD
DSN	DOWNSPOUT NOZZLE
S	ROOF SLOPE DIRECTION

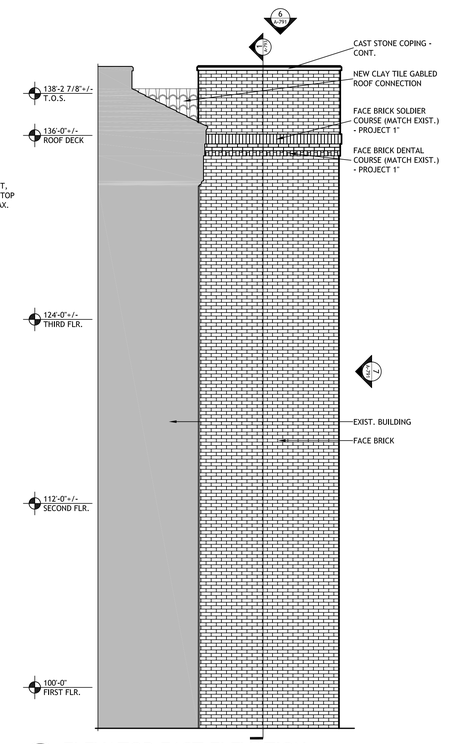
6 ELEVATOR ROOF PLAN
SCALE: 1/4"=1'-0"



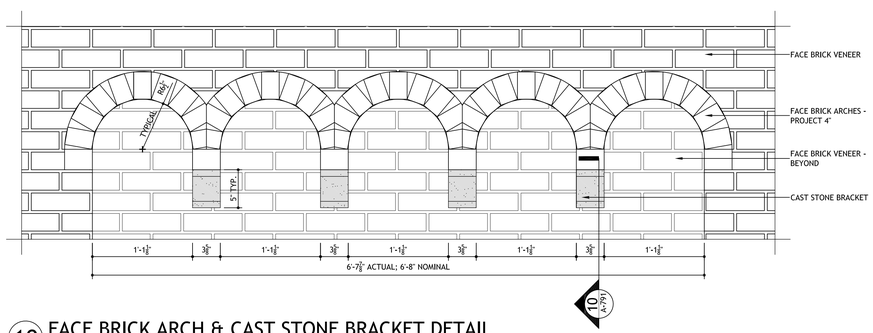
7 ELEVATOR NORTH ELEVATION
SCALE: 1/4"=1'-0"



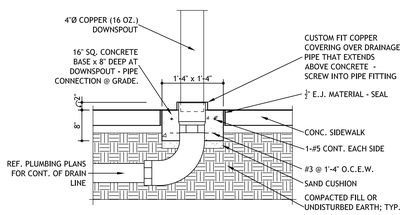
8 ELEVATOR WEST ELEVATION
SCALE: 1/4"=1'-0"



9 ELEVATOR EAST ELEVATION
SCALE: 1/4"=1'-0"



10 FACE BRICK ARCH & CAST STONE BRACKET DETAIL
SCALE: 1 1/2"=1'-0"



11 DOWNPSOUT CONNECTION DETAIL @ GRADE
SCALE: 3/4"=1'-0"

2/22/2018 4:45:00 PM

HOLZMAN MOSS BOTTINO ARCHITECTURE

ARCHITECT OF RECORD:
HOLZMAN MOSS BOTTINO ARCHITECTURE
90 BROAD STREET, SUITE 1803
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STRUCTURAL ENGINEER:
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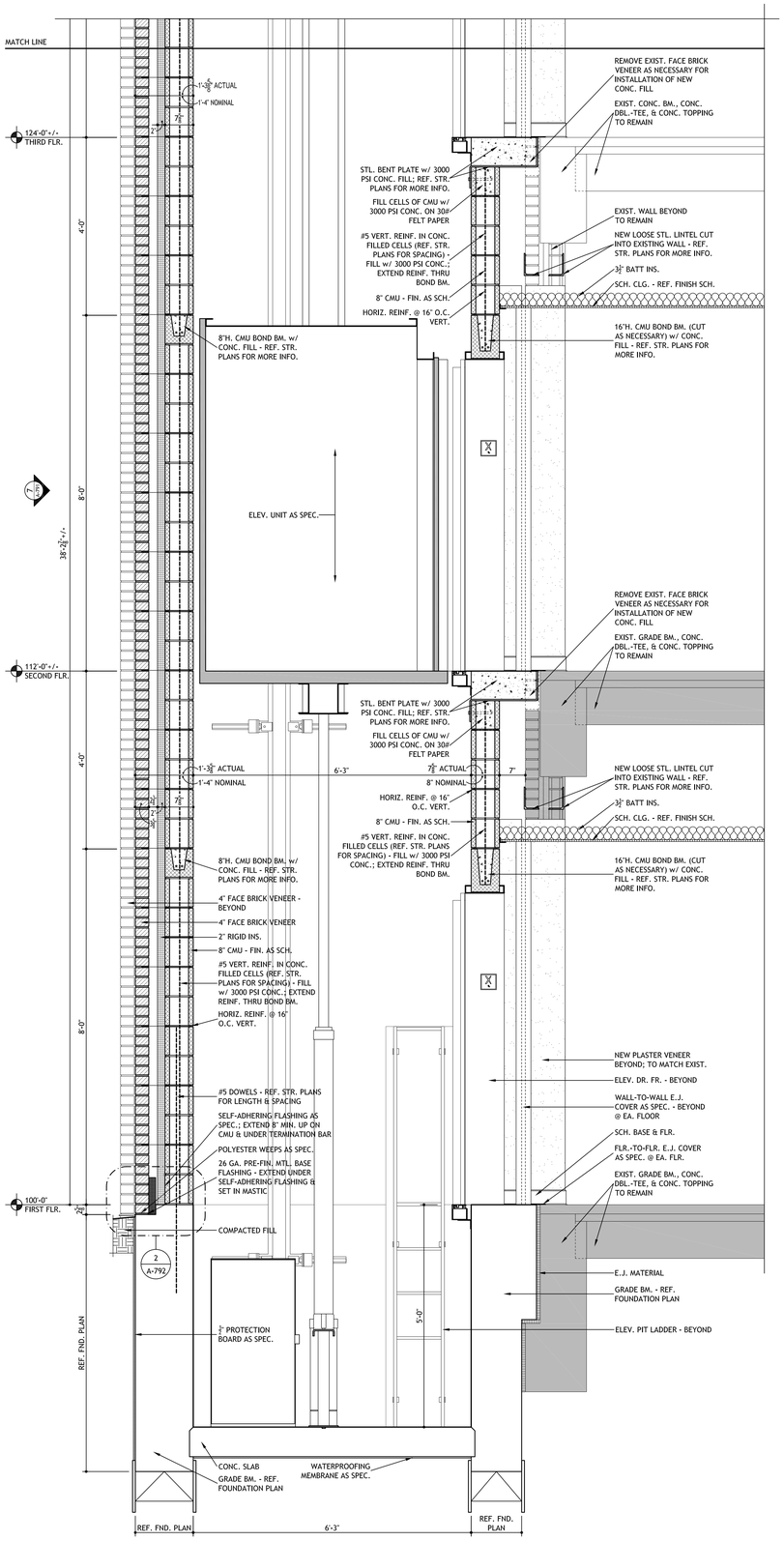
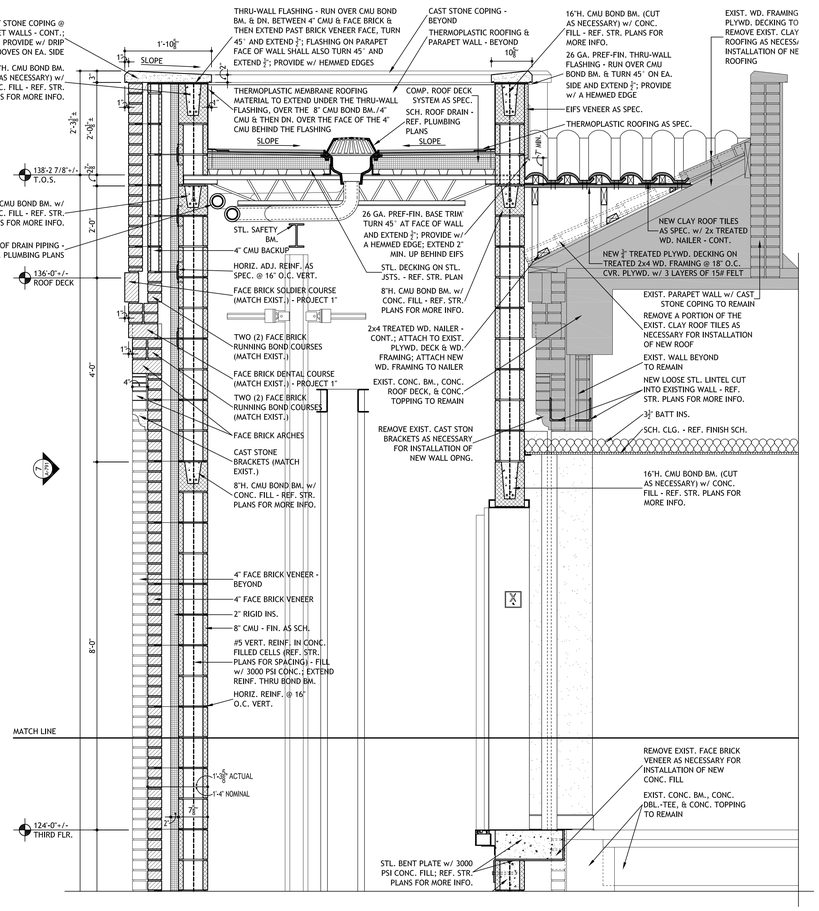
HMBA PROJECT NUMBER: 06113.00

FIRST FLOOR PLAN

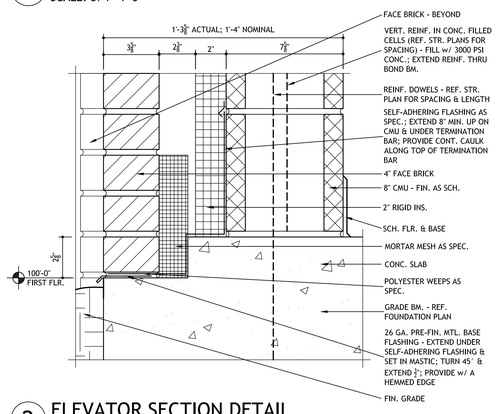
A-791



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



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



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

1/19/2018 12:22:56 PM

HOLZMAN MOSS BOTTINO ARCHITECTURE

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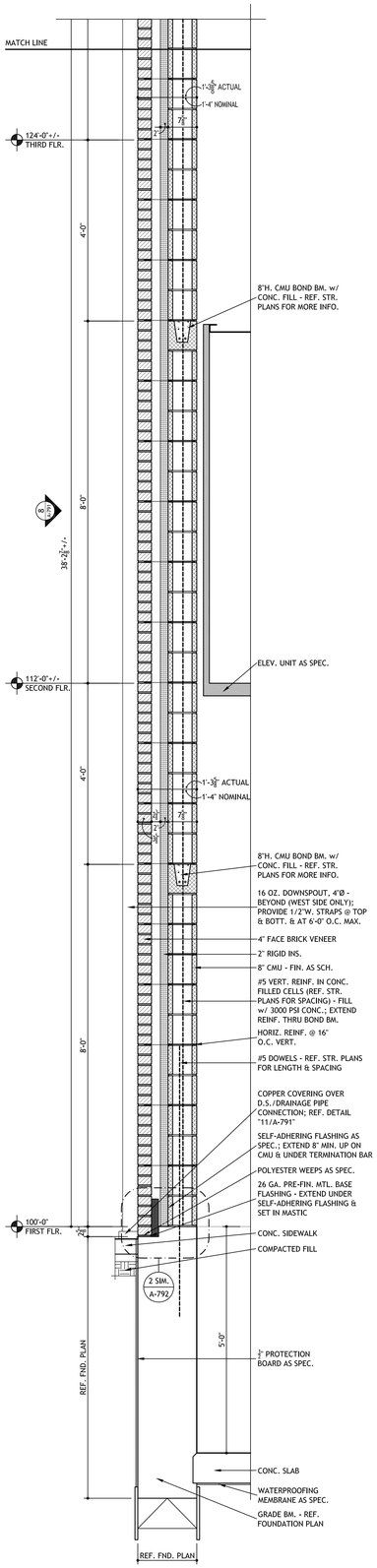
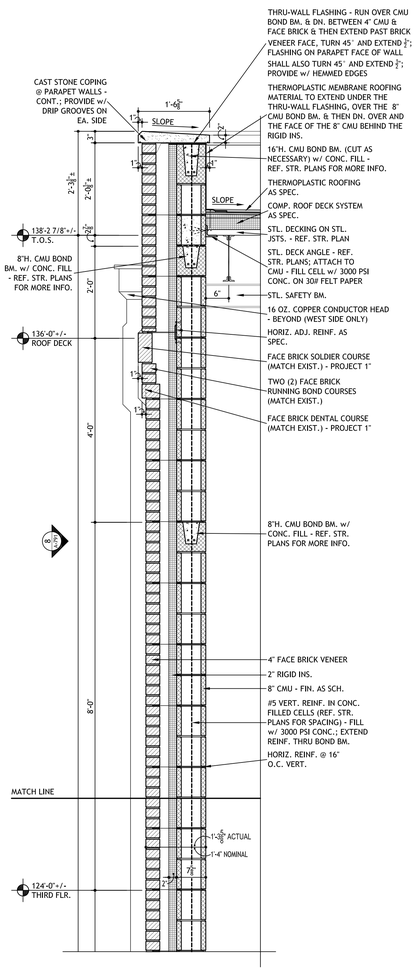
FIRST FLOOR PLAN

A-792



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



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

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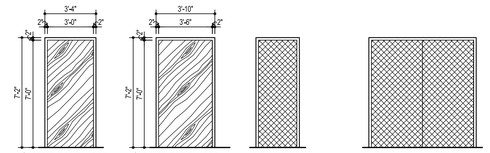
FIRST FLOOR PLAN

A-793

1/19/2018 12:32:56 PM

DOOR SCHEDULE															
Tag	Type	Height	Width	Thickness	Door Material	Finish	Frame Type	Frame Material	Frame Finish	Hardware Group	Fire Rating	Acoustical Requirements	Phase Created	Phase Demolished	Comments
FIRST FLOOR															
105B	4	7' - 0"	6' - 8" (pair)	1 3/4"	WD	PT	1	HM	PT	5	NR		Existing	None	
108A	2	7' - 0"	3' - 6"	1 3/4"	WD	PT	1	HM	PT	3	NR		New Construction	None	
108D	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	4	NR		New Construction	None	
108E	2	7' - 0"	3' - 6"	1 3/4"	WD	PT	1	HM	PT	3	NR		New Construction	None	
1COMM1	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	3	NR		New Construction	None	
1COMM2	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	3	NR		New Construction	None	
1CUST1	3	7' - 0"	2' - 6"	1 3/4"	WD	PT	1	HM	PT	4	NR		Existing	None	
1CUST2	3	7' - 0"	2' - 6"	1 3/4"	WD	PT	1	HM	PT	4	NR		Existing	None	
1ELEC1	3	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	4	NR		Existing	None	
1MECH3	4	7' - 0"	6' - 8" (pair)	1 3/4"	WD	PT	1	HM	PT	5	NR		Existing	None	
1MECH4	4	7' - 0"	6' - 8" (pair)	1 3/4"	WD	PT	1	HM	PT	5	NR		Existing	None	
1RR1	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	1	NR		New Construction	None	
1RR2	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	1	NR		New Construction	None	
1RR3	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	2	NR		New Construction	None	
1RR4	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	2	NR		New Construction	None	
SECOND FLOOR															
209	2	7' - 0"	3' - 6"	1 3/4"	WD	PT	1	HM	PT	3	NR		New Construction	None	
210	2	7' - 0"	3' - 6"	1 3/4"	WD	PT	1	HM	PT	3	NR		New Construction	None	
212	2	7' - 0"	3' - 6"	1 3/4"	WD	PT	1	HM	PT	4	NR		New Construction	None	
2COMM1	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	3	NR		New Construction	None	
2COMM2	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	3	NR		New Construction	None	
2CUST5	3	7' - 0"	2' - 6"	1 3/4"	WD	PT	1	HM	PT	4	NR		Existing	None	
2MECH4	4	7' - 0"	6' - 0" (pair)	1 3/4"	WD	PT	1	HM	PT	5	NR		Existing	None	
2MECH5	4	7' - 0"	6' - 0" (pair)	1 3/4"	WD	PT	1	HM	PT	5	NR		Existing	None	
2MECH7	3	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	4	NR		Existing	None	
2RR1	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	1	NR		New Construction	None	
2RR2	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	1	NR		New Construction	None	
THIRD FLOOR															
303A	2	7' - 0"	3' - 6"	1 3/4"	WD	PT	1	HM	PT	3	NR		New Construction	None	
311A	2	7' - 0"	3' - 6"	1 3/4"	WD	PT	1	HM	PT	3	NR		New Construction	None	
3COMM1	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	3	NR		New Construction	None	
3CUST1	3	7' - 0"	2' - 6"	1 3/4"	WD	PT	1	HM	PT	4	NR		Existing	None	
3CUST6	3	7' - 0"	2' - 6"	1 3/4"	WD	PT	1	HM	PT	4	NR		Existing	None	
3MECH8	4	7' - 0"	5' - 0" (pair)	1 3/4"	WD	PT	1	HM	PT	5	NR		Existing	None	
3MECH9	4	7' - 0"	5' - 0" (pair)	1 3/4"	WD	PT	1	HM	PT	5	NR		Existing	None	
3RR1	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	1	NR		New Construction	None	
3RR2	1	7' - 0"	3' - 0"	1 3/4"	WD	PT	1	HM	PT	1	NR		New Construction	None	

OPENING SCHEDULE
SCALE: NO SCALE



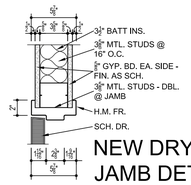
1¾" SOLID CORE WOOD DOOR IN A H.M. FRAME
TYPE "1"

1¾" SOLID CORE WOOD DOOR IN A H.M. FRAME
TYPE "2"

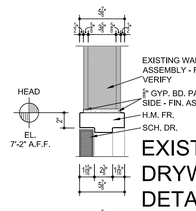
EXISTING OPNG.; MODIFY HARDWARE - REF. HARDWARE SCH.
TYPE "3"

EXISTING OPNG.; MODIFY HARDWARE - REF. HARDWARE SCH.
TYPE "4"

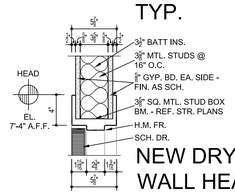
OPENING ELEVATIONS
SCALE: 1/4"=1'-0"



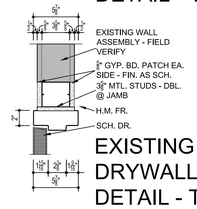
NEW DRYWALL JAMB DETAIL - TYP.



EXISTING DRYWALL HEAD DETAIL - TYP.



NEW DRYWALL WALL HEAD DETAIL - TYP.



EXISTING DRYWALL JAMB DETAIL - TYP.

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

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HMBA PROJECT NUMBER: 06113.00

FIRST FLOOR PLAN

A-851

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ROOM FINISH SCHEDULE

PHASE I

ROOM		FLOOR		WALLS				CEILING	
NO	Name	Finish	Base	North	East	South	West	Finish	Finish Notes
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.
1CUST1	CUSTODIAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1CUST2	CUSTODIAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1ELEV1	ELEVATOR	LIN1	SEE FINISH NOTES	LAM1	LAM1	LAM1	LAM1	SEE FINISH NOTES	ARCHITECT TO SELECT FROM MANUFACTURER'S STANDARD
1MECH2	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1MECH3	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1MECH4	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
1RR1	WOMEN	T1	TB1	PT4/CT3	PT4/CT3	PT4/CT3	PT4/CT3	Exposed	SEE SHEET A-731 FOR FINISH DETAILS
1RR2	MEN	T1	TB1	PT4/CT3	PT4/CT3	PT4/CT3	PT4/CT3	Exposed	SEE SHEET A-731 FOR FINISH DETAILS
1RR3	ADA	T1	TB1	PT4/CT3	PT4/CT3	PT4/CT3	PT4/CT3	Exposed	SEE SHEET A-731 FOR FINISH DETAILS
1RR3	TOILET	T1	TB1	PT4/CT3	PT4/CT3	PT4/CT3	PT4/CT3	ACT1	SEE SHEET A-731 FOR FINISH DETAILS
1RR4	ADA	T1	TB1	PT4/CT3	PT4/CT3	PT4/CT3	PT4/CT3	Exposed	SEE SHEET A-731 FOR FINISH DETAILS
102D	TOILET	T1	TB1	PT1/CT3	PT1/CT3	PT1/CT3	PT1/CT3	ACT1	SEE SHEET A-731 FOR FINISH DETAILS
108A	STOR.	SEE FINISH NOTES	RB1	PT1	PT1	PT1	PT1	Exposed	EXISTING CARPET TO BE REMOVED. EXPOSED CONCRETE TO BE PATCHED & REPAIRED AS NEEDED.
108D	ELEVATOR ROOM	BBT1	Existing	PT1	PT1	PT1	PT1	Exposed	EXISTING FLOOR TILE TO BE REMOVED. EXISTING WALL TILE TO REMAIN.
108E	STORAGE	BBT1	Existing	PT1	PT1	PT1	PT1	Exposed	EXISTING FLOOR TILE TO BE REMOVED. EXISTING WALL TILE TO REMAIN.
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.
2CUST5	CUSTODIAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
2CUST5	CUSTODIAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
2MECH4	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
2MECH5	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
2MECH7	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
2RR1	WOMEN	T1	TB1	PT4/CT3	PT4/CT3	PT4/CT3	PT4/CT3	Exposed	SEE SHEET A-731 FOR FINISH DETAILS
2RR2	MEN	T1	TB1	PT4/CT3	PT4/CT3	PT4/CT3	PT4/CT3	Exposed	SEE SHEET A-731 FOR FINISH DETAILS
2TOIL2	TOILET	T1	TB1	PT1/CT3	PT1/CT3	PT1/CT3	PT1/CT3	ACT1	SEE SHEET A-731 FOR FINISH DETAILS
209	STORAGE	SEE FINISH NOTES	RB1	PT1	PT1	PT1	PT1	Exposed	EXISTING CARPET TO BE REMOVED. EXPOSED CONCRETE TO BE PATCHED & REPAIRED AS NEEDED.
210	STORAGE	BBT1	Existing	PT1	PT1	PT1	PT1	Exposed	EXISTING FLOOR TILE TO BE REMOVED. EXISTING WALL TILE TO REMAIN.
212	STOR.	BBT1	Existing	PT1	PT1	PT1	PT1	Exposed	EXISTING FLOOR TILE TO BE REMOVED. EXISTING WALL TILE TO REMAIN.
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.
3CUST1	CUSTODIAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
3CUST6	CUSTODIAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
3MECH8	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	
3MECH9	MECHANICAL	Existing	Existing	Existing	Existing	Existing	Existing	Exposed	

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FINISH SCHEDULE, NOTES & DETAILS

I-001

MATERIAL FINISH LEGEND

PHASE I

ID	MATERIAL	MANUFACTURER	DESCRIPTION	REMARKS
BBT1	BIOBASED TILE	ARMSTRONG	MIGRATIONS 12X12 TILE; COLOR: T3507 METAL GRAY	MONOLITHIC INSTALLATION
LAM1	METAL LAMINATE	FORMICA	DECOMETAL MG484 ARGENT CRAFT	TEXTURE TO RUN VERTICALLY
LAM2	PLASTIC LAMINATE	FORMICA	NAVY BLUE 969-58 MATTE FINISH	
LIN1	LINOLEUM FLOORING	FORBO	MARMOLEUM MODULAR T3030; COLOR: BLUE	MONOLITHIC INSTALLATION
PT1	PAINT; EGGSHELL FINISH	SHERWIN WILLIAMS	SW 7006 EXTRA WHITE	GENERAL BUILDING WHITE
PT4	PAINT; EGGSHELL FINISH	SHERWIN WILLIAMS	SW 9048 SURFIN'	AT RESTROOMS
PT7	PAINT; SEMI-GLOSS FINISH	SHERWIN WILLIAMS	SW 6515 LEISURE BLUE	ALL DOORS AND TRIM
RB1	RUBBER WALL BASE	ROPPE	700 SERIES STANDARD TOE BASE; COLOR: 154 SALEM	
SS1	QUARTZ COUNTERTOP	HANWHA SURFACES	HANSTONE QUARTZ; COLOR: MYSTIC BLUE CT407	POLISHED FINISH
T1	PORCELAIN FLOOR TILE	DAL TILE	VERANDA SOLIDS 13X20 TILE; COLOR: P551 SAPPHIRE	MONOLITHIC INSTALLATION
T2	CERAMIC WALL TILE	DAL TILE	NATURAL HUES 3X9 GLOSSY TILE; COLOR: QH48 CARNATION	MATCHING TRIM; SEE DRAWINGS FOR INSTALLATION
TB1	CERAMIC TILE WALL BASE	NEMO TILE	NATURAL HUES GLOSSY TILE; COLOR: QH48 CARNATION	
TP1	TOILET PARTITIONS	HINY HIDERS	METALLIC	HAMMERED FINISH

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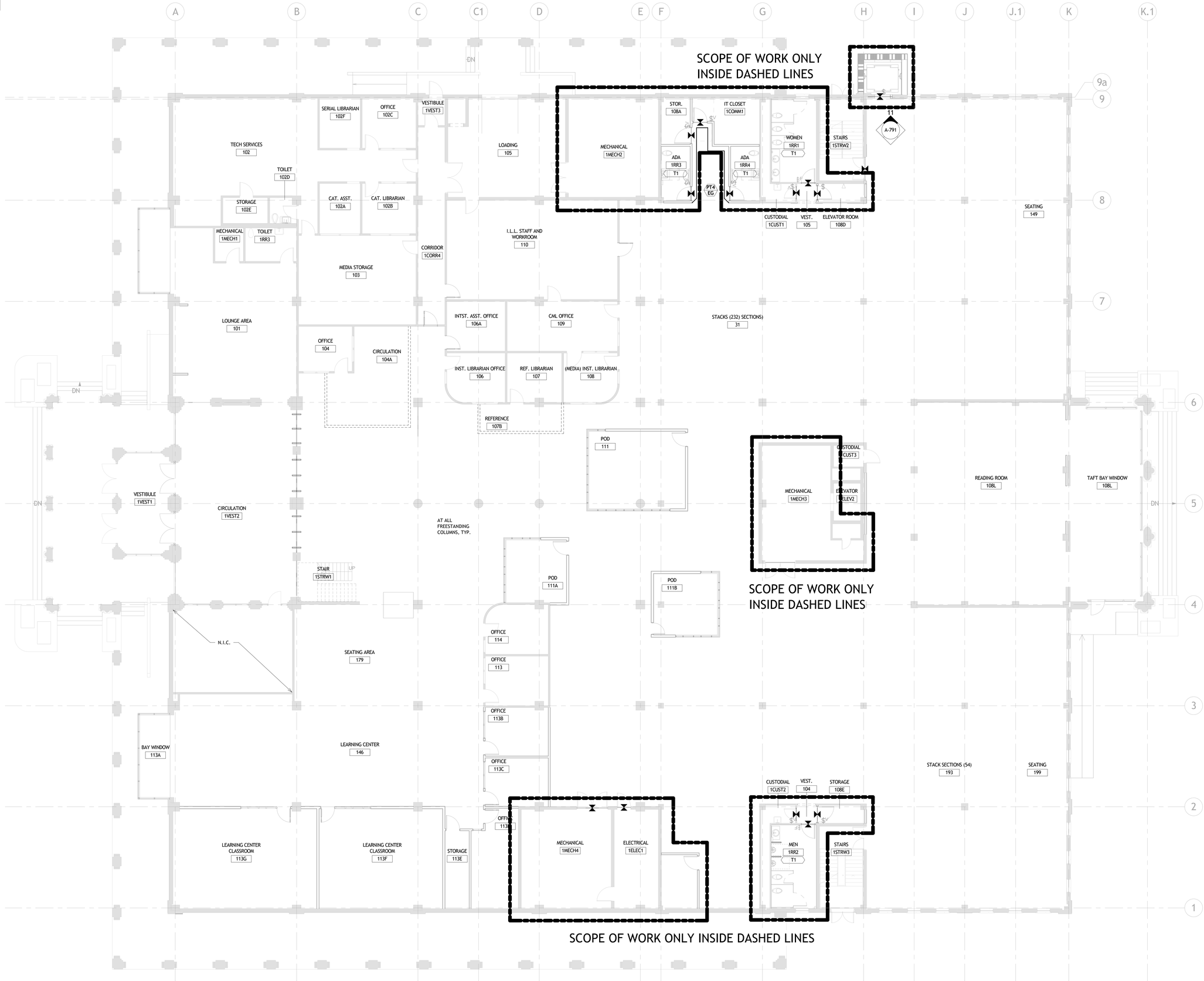
MATERIALS SCHEDULE, NOTES & DETAILS

I-002



FINISH LEGEND

ABBREVIATIONS

EXIST: FINISH IS EXISTING TO REMAIN
REFER: CONTRACTOR TO REFER TO FINISH SCHEDULE AND/OR ELEVATIONS FOR FINISH
FL: FLAT
EG: EGGSHELL
SG: SEMI-GLOSS
G: GLOSS

SYMBOL KEYS

- FLOOR FINISH
- FLOOR FINISH TRANSITION
- FLOORING DIRECTION
- WALL FINISH
- WALL FINISH SHEEN

GENERAL NOTES:

1. LEVEL FLOOR AS REQUIRED AT ALL FLOORING MATERIAL TRANSITIONS
2. FLOORING MATERIAL BREAKS AT DOOR CENTERLINE, UNLESS OTHERWISE NOTED
3. ALL CARPET TILE TO RUN INDIRECTION AS INDICATED ON FINISH PLANS
4. RB-1 TO BE INSTALLED ON ALL WALLS UNLESS OTHERWISE NOTED IN FINISH SCHEDULE
5. STEPS AND LANDINGS OF STAIRS TO RECEIVE ?????
6. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY EXPOSED SURFACES THAT DOES NOT HAVE A FINISH SPECIFIED, PRIOR TO SUBMITTING A BID.

PAINT FINISHES:

1. ALL GYPSUM WALLS SHALL BE PAINTED PTX/EG AS SPECIFIED ON FINISH PLANS.
2. ALL FREESTANDING COLUMNS TO BE PAINTED PT1 UON.
3. COLUMNS THAT OCCUR IN A WALL SHALL BE PAINTED TO MATCH WALL UON.
3. GYPSUM WALLBOARD TO RECEIVE EGGSHELL FINISH, UON.
4. ALL HOLLOW METAL FRAMES & DOORS TO BE PAINTED PT-7 IN SEMI-GLOSS FINISH UON.
5. PAINT ALL EXISTING WOOD FRAMES & DOORS, WINDOW WOOD FRAMES & CEILING WOOD TRIM TRANSITIONS AS SPECIFIED ON FINISH PLANS.
6. EXISTING WALL TILE IN THE STAIRS TO REMAIN AS IS. PORTION OF WALL ABOVE THE TILE TO BE PAINTED AS SPECIFIED ON THE FINISH PLANS

PHASE LEGEND

- PHASE I - WORK TO BE COMPLETED IN 2018
- PHASE II - WORK TO BE COMPLETED IN 2019

1 FIRST FLOOR FLOORING FINISH PLAN

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

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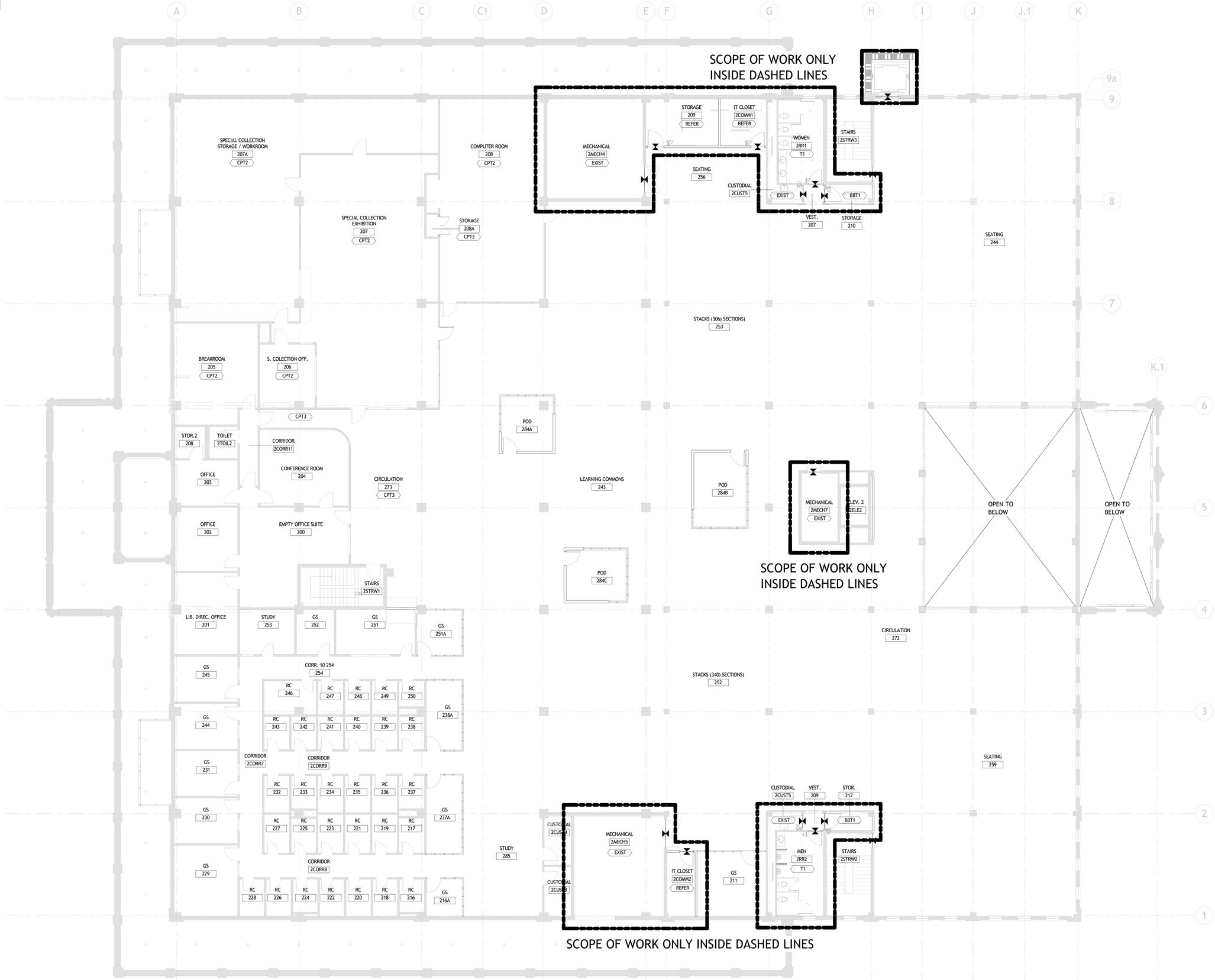
FIRST FLOOR FINISH PLAN

I-101



1 SECOND FLOOR FLOORING FINISH PLAN

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

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FINISH LEGEND

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PHASE LEGEND

- PHASE I - WORK TO BE COMPLETED IN 2018
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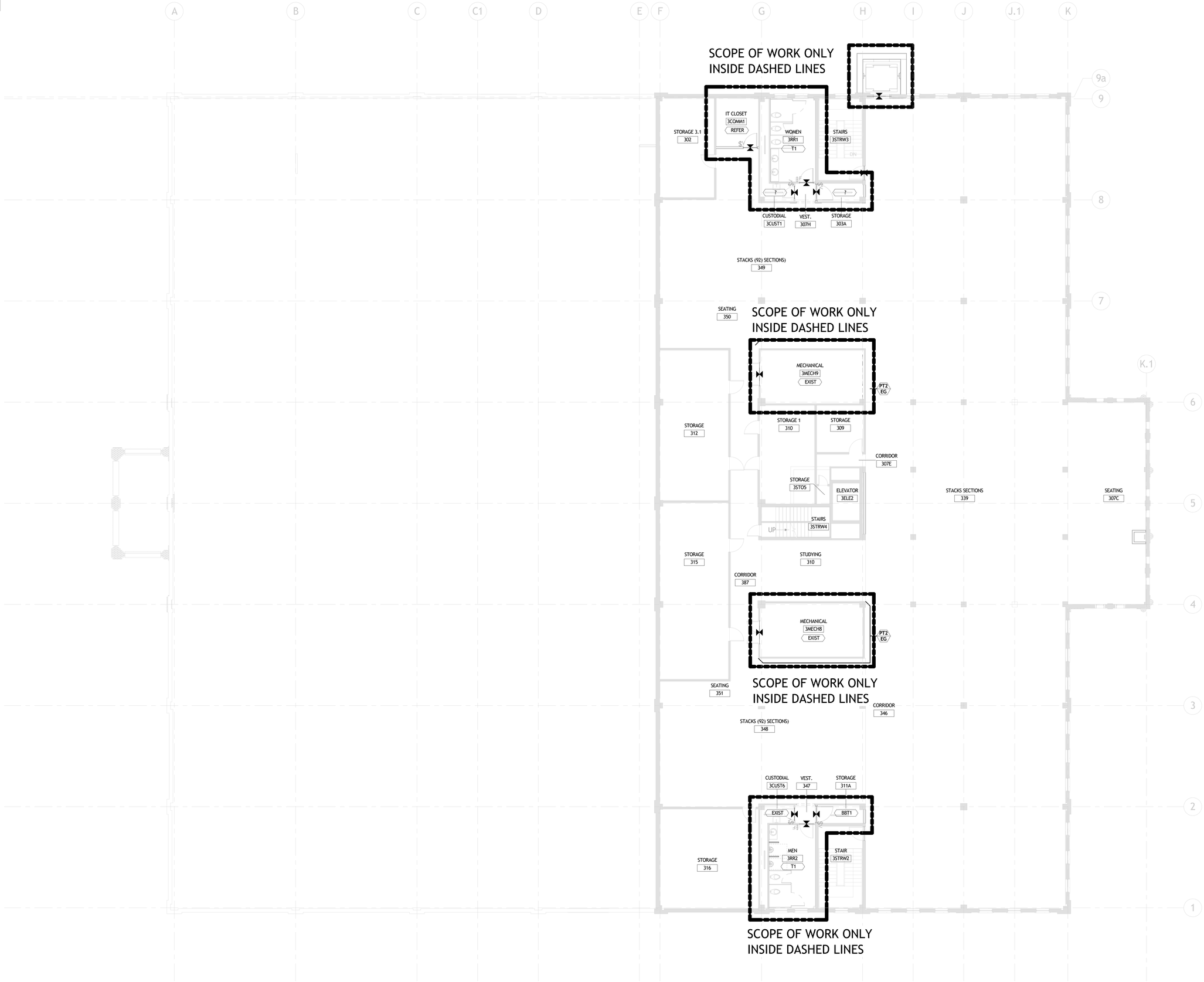
SECOND FLOOR FINISH PLAN

I-102



FINISH LEGEND

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G: GLOSS

SYMBOL KEYS

FLOOR FINISH
FLOOR FINISH TRANSITION
FLOORING DIRECTION
WALL FINISH
WALL FINISH SHEEN

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4. RB-1 TO BE INSTALLED ON ALL WALLS UNLESS OTHERWISE NOTED IN FINISH SCHEDULE
5. STEPS AND LANDINGS OF STAIRS TO RECEIVE ?????
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4. ALL HOLLOW METAL FRAMES & DOORS TO BE PAINTED PT-7 IN SEMI-GLOSS FINISH UON.
5. PAINT ALL EXISTING WOOD FRAMES & DOORS, WINDOW WOOD FRAMES & CEILING WOOD TRIM TRANSITIONS AS SPECIFIED ON FINISH PLANS.
6. EXISTING WALL TILE IN THE STAIRS TO REMAIN AS IS. PORTION OF WALL ABOVE THE TILE TO BE PAINTED AS SPECIFIED ON THE FINISH PLANS

PHASE LEGEND

PHASE I - WORK TO BE COMPLETED IN 2018
PHASE II - WORK TO BE COMPLETED IN 2019

1 THIRD FLOOR FLOORING FINISH PLAN

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

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MIDWESTERN STATE UNIVERSITY
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SEAL:

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ISSUE DATE: 03.19.2018

REVISION	DESCRIPTION	DATE

HMBA PROJECT NUMBER: 06113.00

THIRD FLOOR FINISH PLAN

I-103

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	5.0%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 MINIMUM 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 ASSY'S	ARCHITECTURAL, ARCHITECT 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

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"

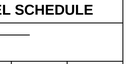
NOTES:

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.

03 SCHEDULE
NO SCALE

CONCRETE DOWEL SCHEDULE



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

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.

04 SCHEDULE
NO SCALE

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MIDWESTERN STATE UNIVERSITY
WICHITA FALLS, TEXAS

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STRUCTURAL NOTES

S-101

STATE OF TEXAS
R. TRENT PERKINS
84264
LICENSED PROFESSIONAL ENGINEER
2/26/2018

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RTP#: 18013

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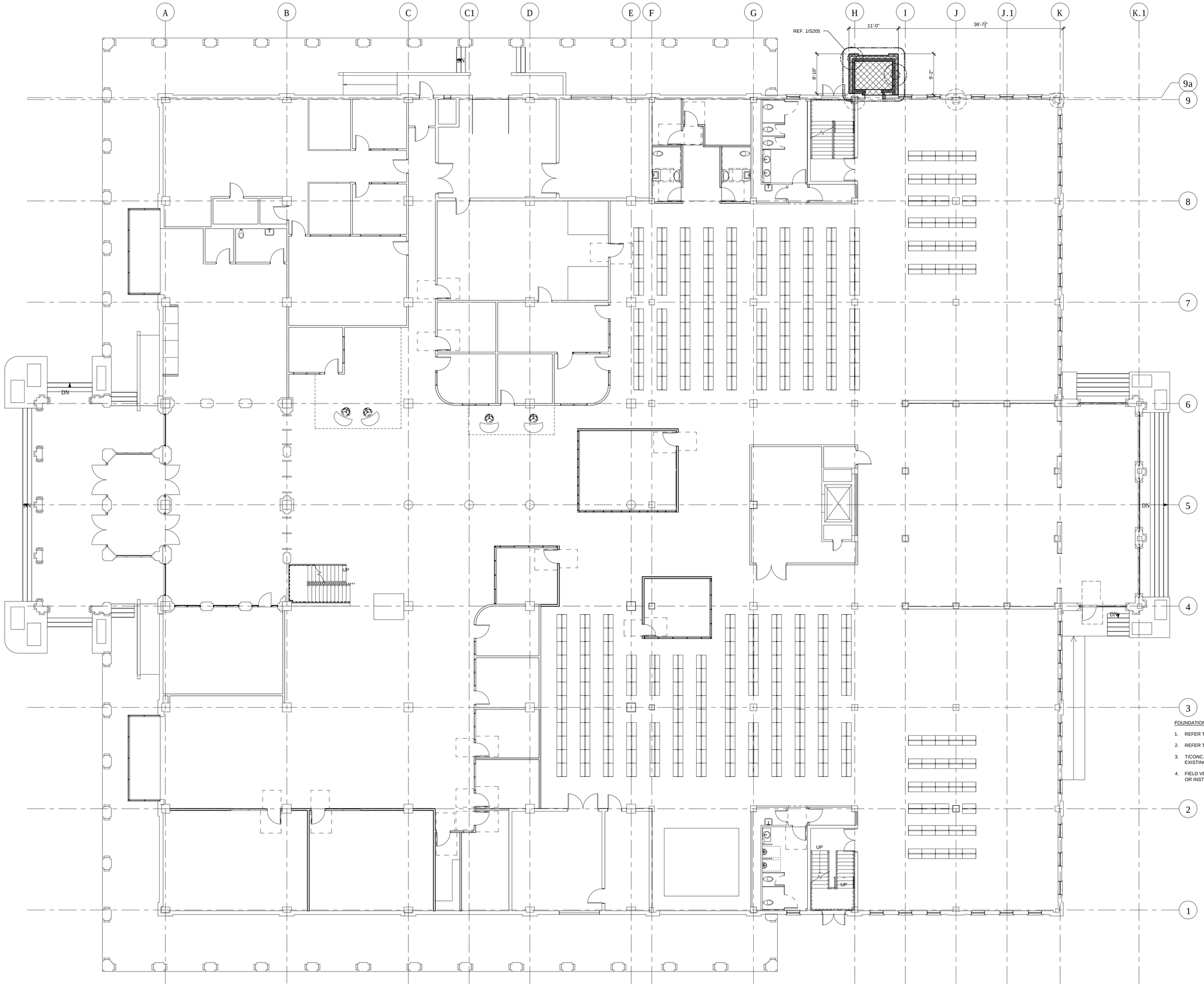

FOUNDATION PLAN NOTES:

1. REFER TO SHEET S101 FOR STRUCTURAL NOTES AND SCHEDULES.
2. REFER TO SHEET S301 FOR TYPICAL FOUNDATION DETAILS.
3. T/CONC. = TOP OF CONCRETE ELEVATION. T/CONC. = TOP OF EXISTING CONCRETE FLOOR, UNLESS NOTED OTHERWISE.
4. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION OR INSTALLATION OF ANY NEW MATERIALS OR ASSEMBLIES.

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

PHASE LEGEND

PHASE I - WORK TO BE COMPLETED IN 2018

PHASE II - WORK TO BE COMPLETED IN 2019

HOLZMAN MOSS BOTTINO ARCHITECTURE

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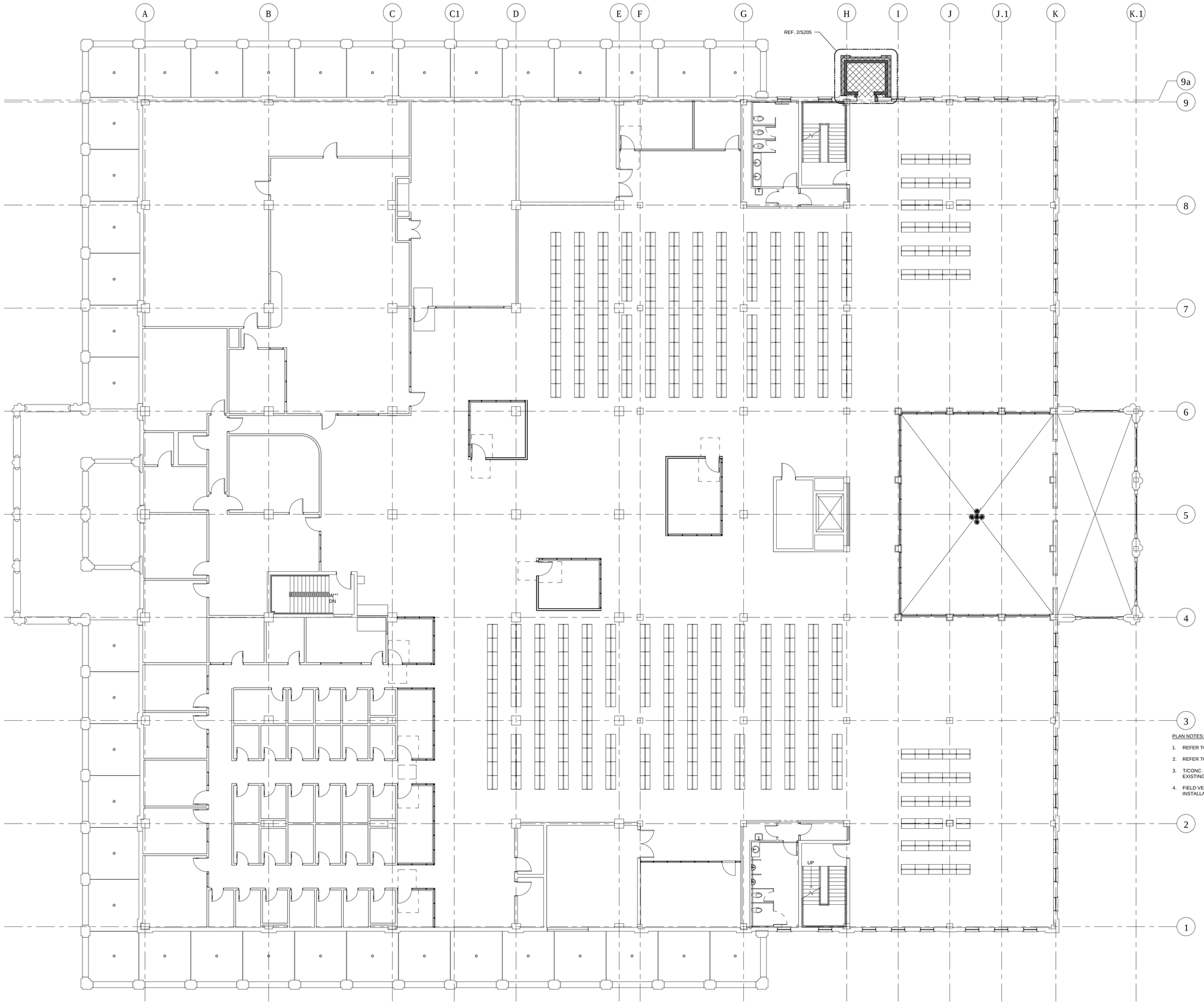
HMBA PROJECT NUMBER: 06113.00

FOUNDATION PLAN

S-201



PHASE LEGEND

- PHASE I - WORK TO BE COMPLETED IN 2018
- PHASE II - WORK TO BE COMPLETED IN 2019

PLAN NOTES:

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1 SECOND FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"

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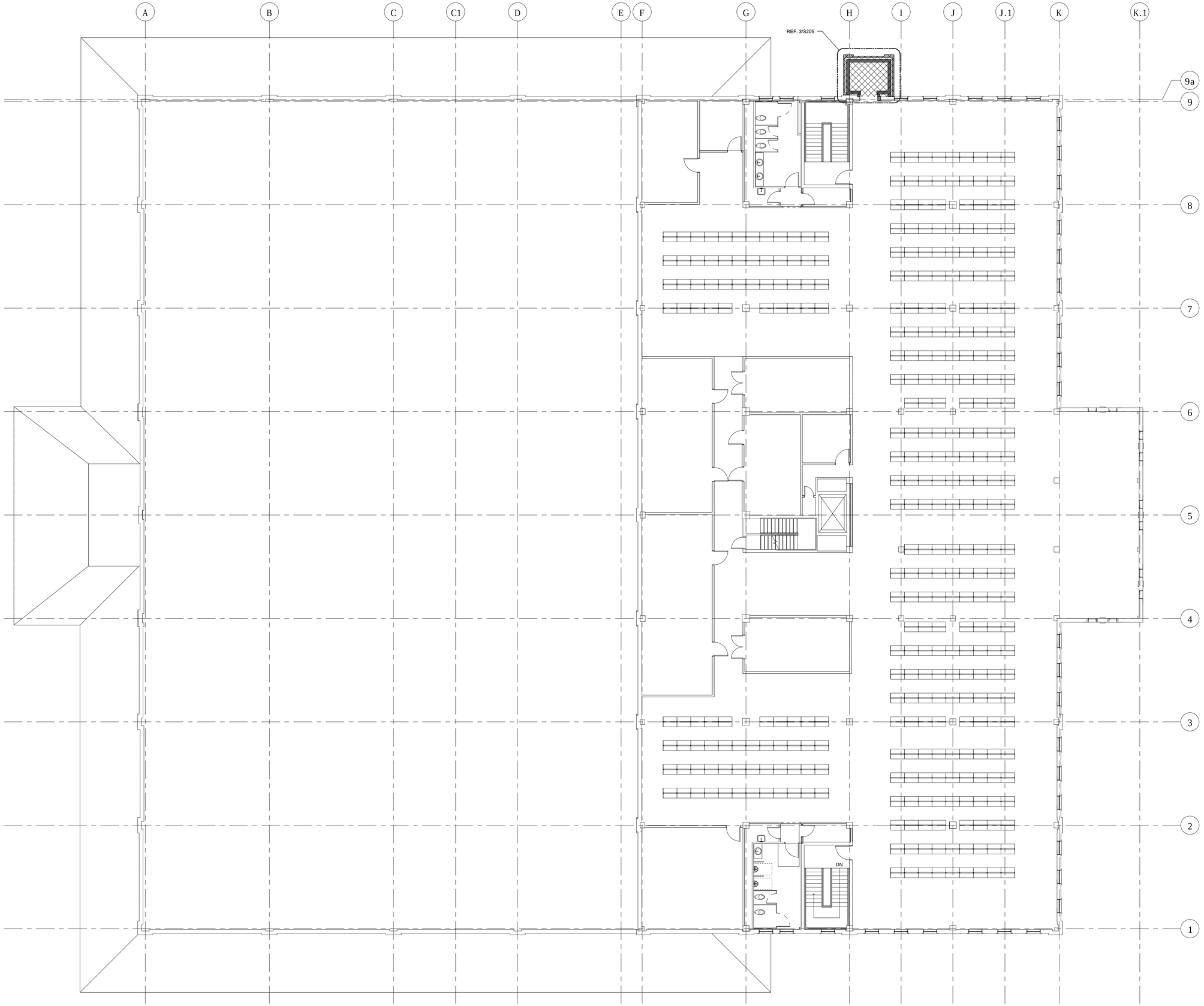
SECOND FLOOR FRAMING PLAN

S-202



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

PHASE LEGEND

PHASE I - WORK TO BE COMPLETED IN 2018

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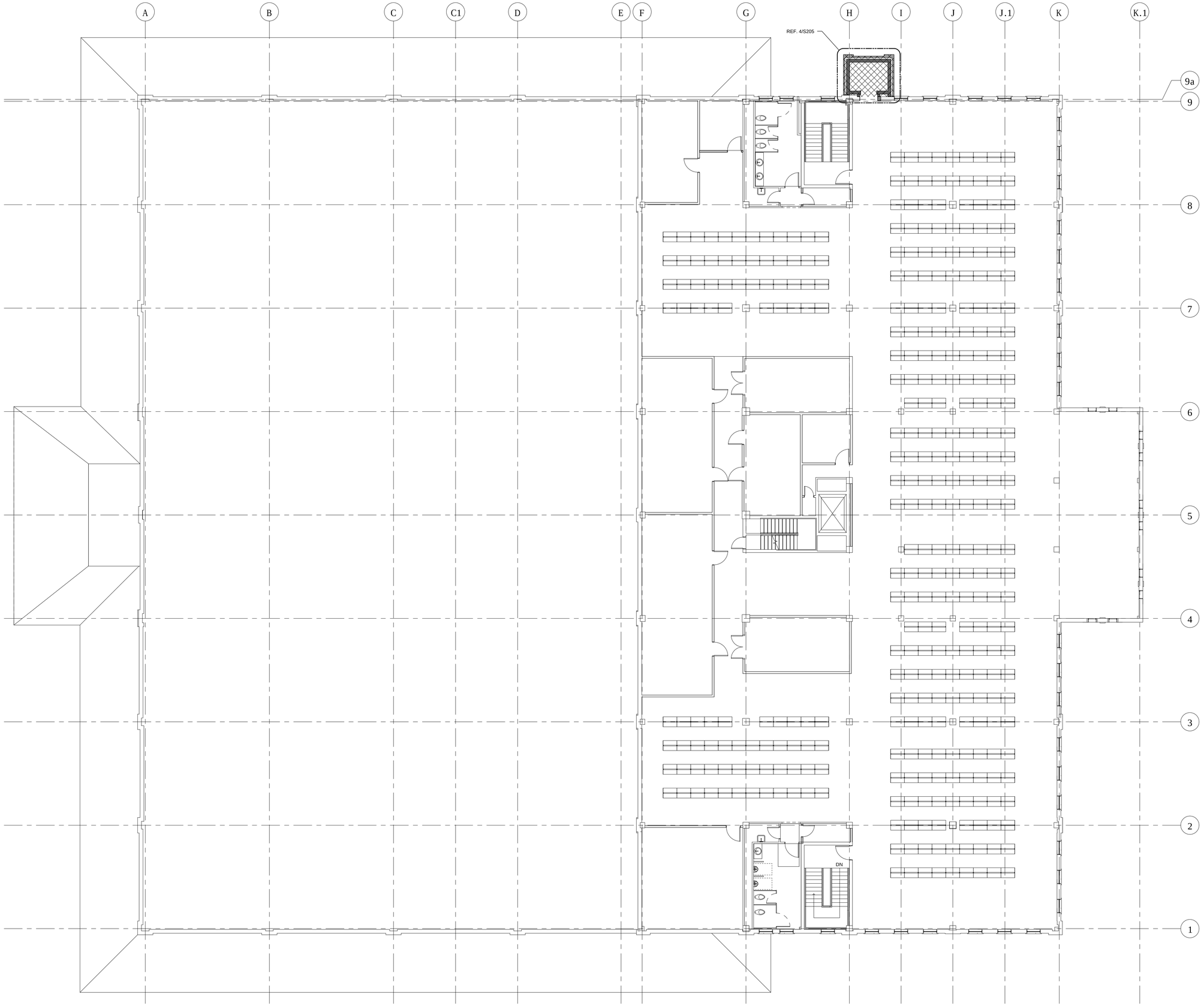
THIRD FLOOR FRAMING PLAN

S-203



1 ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

PHASE LEGEND

PHASE I - WORK TO BE COMPLETED IN 2018

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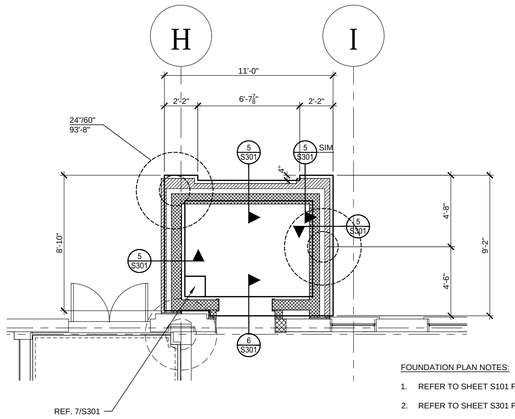
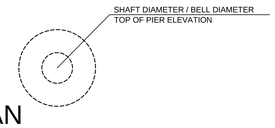
ROOF FRAMING PLAN

S-204



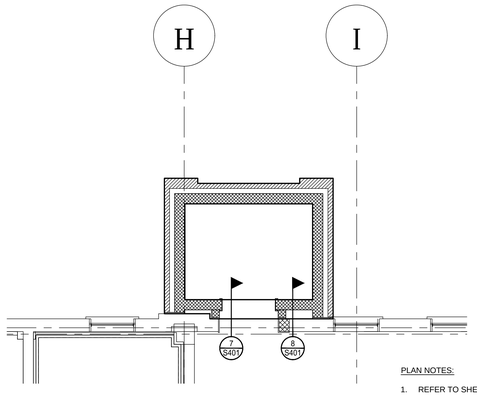
FOUNDATION PLAN NOTES:

1. REFER TO SHEET S101 FOR STRUCTURAL NOTES AND SCHEDULES.
2. REFER TO SHEET S301 FOR TYPICAL FOUNDATION DETAILS.
3. PIERS ARE CENTERED BENEATH GRADE BEAMS, UNLESS NOTED OTHERWISE.
4. T/CONC. = TOP OF CONCRETE ELEVATION. T/CONC. = TOP OF EXISTING CONCRETE FLOOR, UNLESS NOTED OTHERWISE.
5. COORDINATE FLOOR DEPRESSIONS, DROPS, SLOPES, AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
6. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION OR INSTALLATION OF ANY NEW MATERIALS OR ASSEMBLIES.
7. PIERS ARE NOTED THUS ON PLAN (REF. 1/S301) :



1 PARTIAL FOUNDATION PLAN

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



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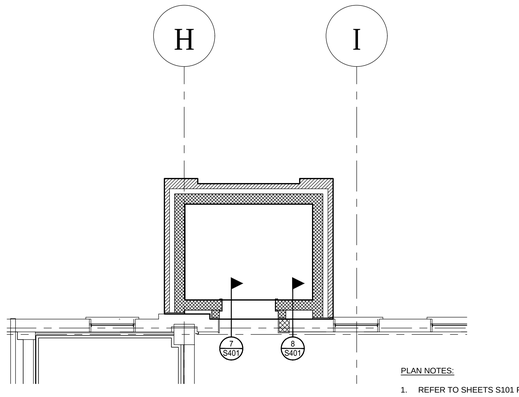
2 PARTIAL SECOND FLOOR FRAMING PLAN

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



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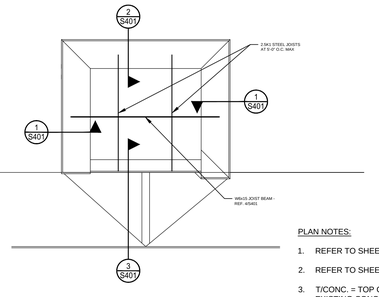
3 PARTIAL THIRD FLOOR FRAMING PLAN

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



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4 PARTIAL ROOF FRAMING PLAN

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

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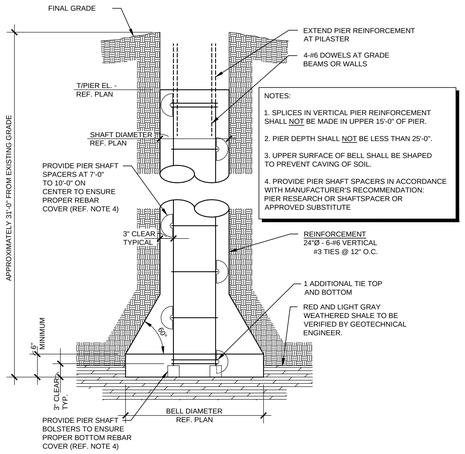
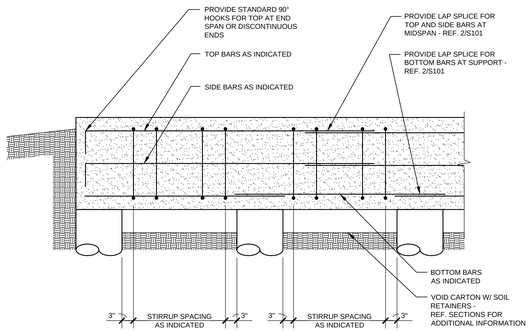
PARTIAL PLANS

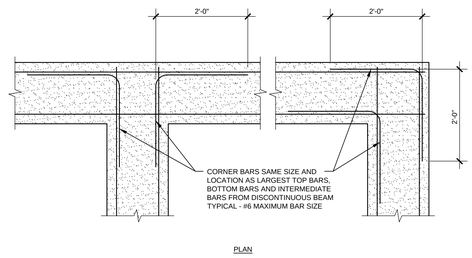
S-205



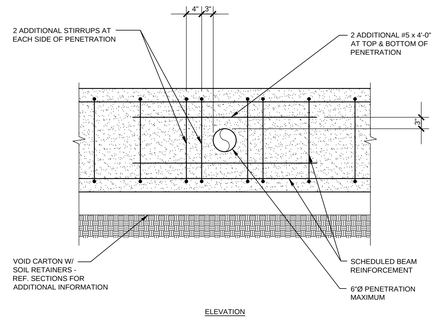
01 **TYPICAL BELLED PIER DETAIL**
NO SCALE



02 **TYPICAL UNSCHEDULED CONCRETE BEAM REINFORCEMENT DETAIL**
NO SCALE



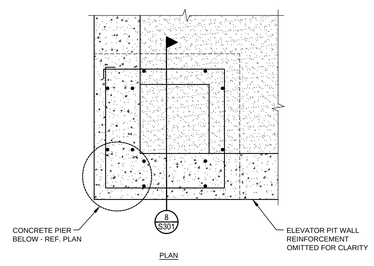
03 **TYPICAL CORNER BARS AT CONCRETE WALL, BEAM AND FOOTING INTERSECTION DETAIL**
NO SCALE



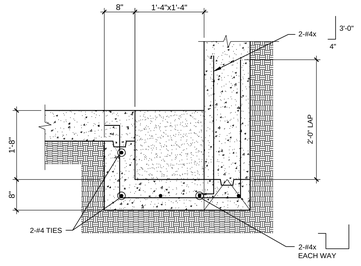
04 **TYPICAL GRADE BEAM PENETRATION DETAIL**
NO SCALE

05 **TYPICAL EXTERIOR SECTION**
NO SCALE

06 **TYPICAL EXTERIOR SECTION**
NO SCALE



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



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

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FIRST FLOOR PLAN

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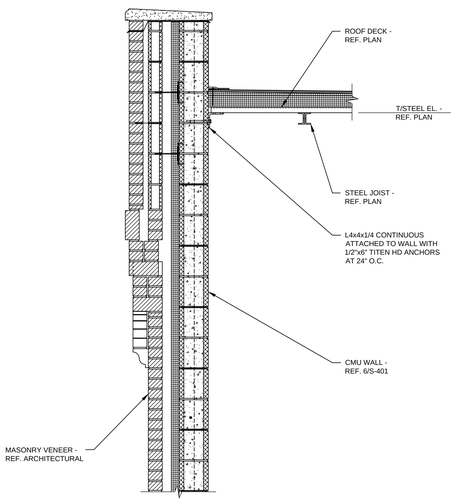
S-301



01 **SECTION**
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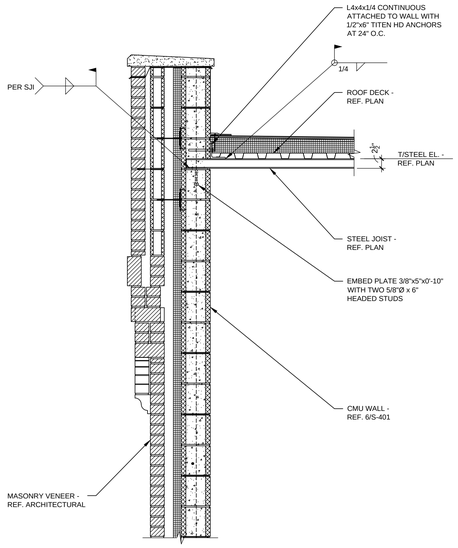

02 **SECTION**
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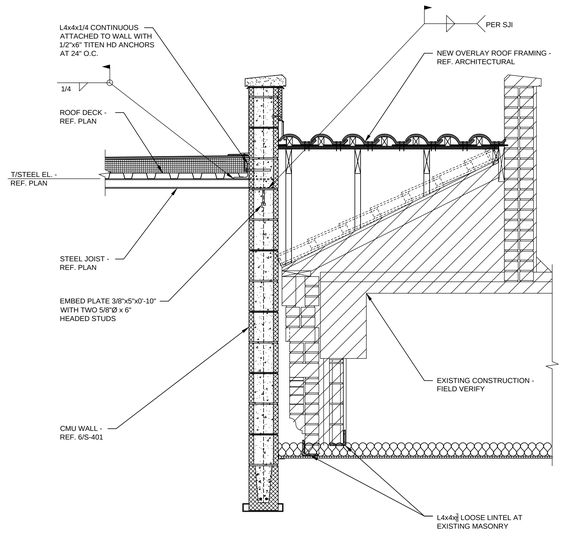
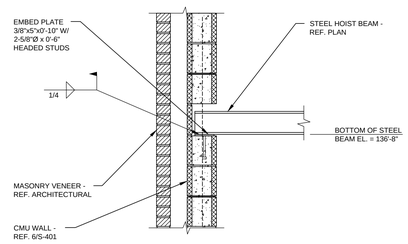
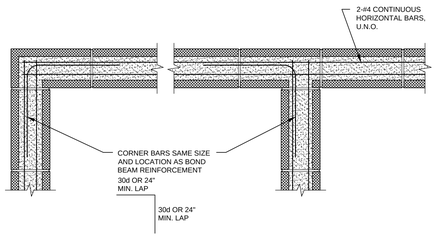


03 **SECTION**
NO SCALE



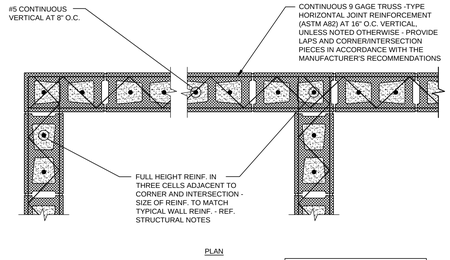
04 **TYPICAL BEAM TO CMU WALL DETAIL**
NO SCALE



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

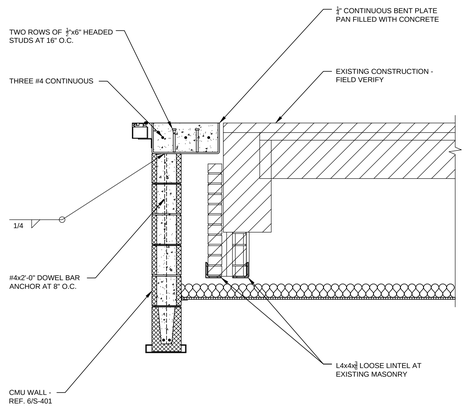
2. UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS 8" DEEP BOND BEAM AT THE TOP AND AT 8'-0", 16'-0", AND 24'-0" ABOVE FINISHED FLOOR IN ALL WALLS.

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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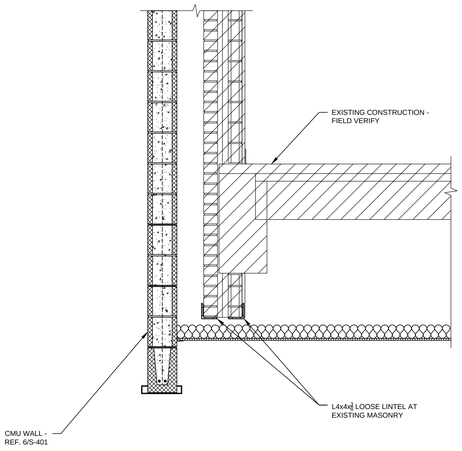

08 **SECTION**
NO SCALE

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MIDWESTERN STATE UNIVERSITY

WICHITA FALLS, TEXAS

SEAL:

100% CD SUBMISSION
ISSUE DATE: 3.05.2018

REVISION	DESCRIPTION	DATE

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HMBA PROJECT NUMBER: 06113.00

FIRST FLOOR PLAN

S-401

LIBRARY

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.

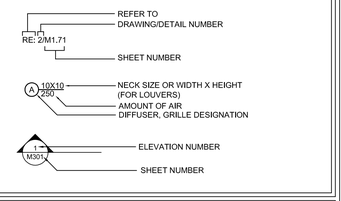
18. TEST AND BALANCE SHALL BE PERFORMED BY AN AABC LICENSED FIRM IN THE TESTING, ADJUSTING, AND BALANCING (TAB) BUSINESS FOR A MINIMUM OF 10 YEARS. AABC FIRM SHALL SUBMIT A REPORT TO THE ENGINEER OF RECORD INDICATING EQUIPMENT NAMEPLATE DATA, DESIGN PERFORMANCE, INITIAL TESTED PERFORMANCE, AND FINAL 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 IN-NECK OPPOSED BLADE DAMPER MODEL A/G-15.

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10.3.1.2018.17210

100% CD SUBMISSION PHASE 1

ISSUE DATE: 03.05.2018

REVISION	DESCRIPTION	DATE

HMBA PROJECT NUMBER: 06113.00

GENERAL NOTES AND SCHEDULES

M-001

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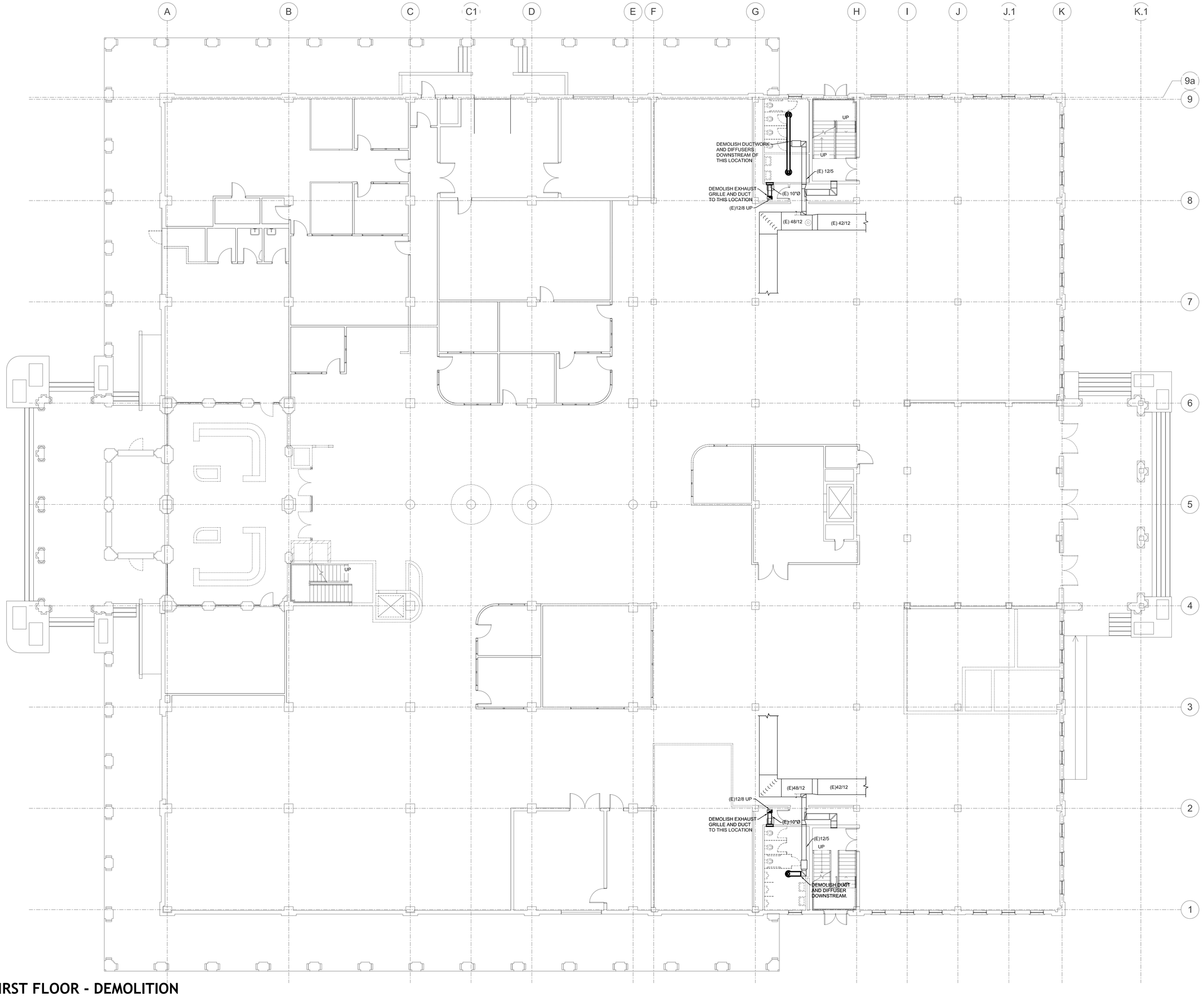

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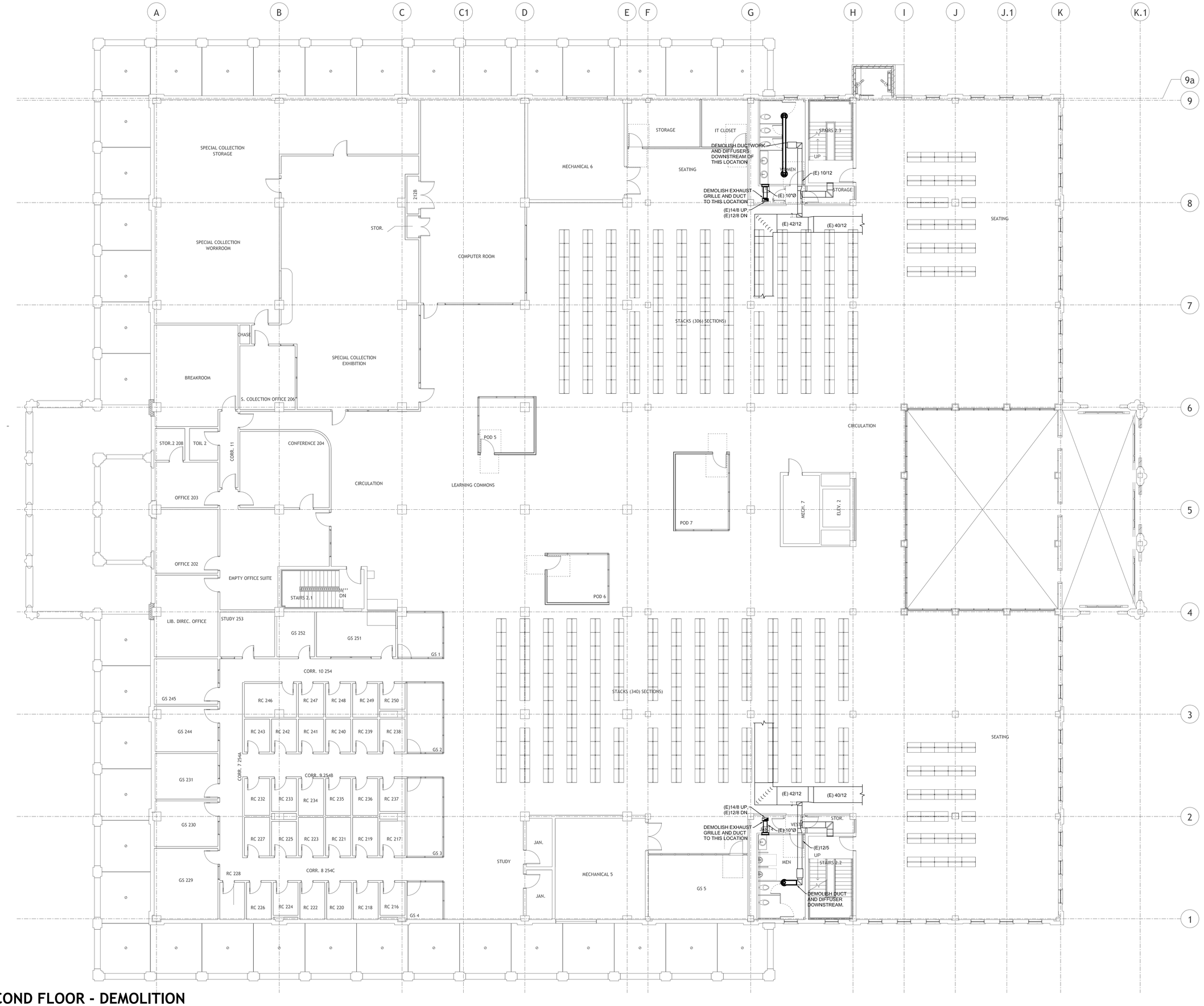
FIRST FLOOR - DEMOLITION

M-101



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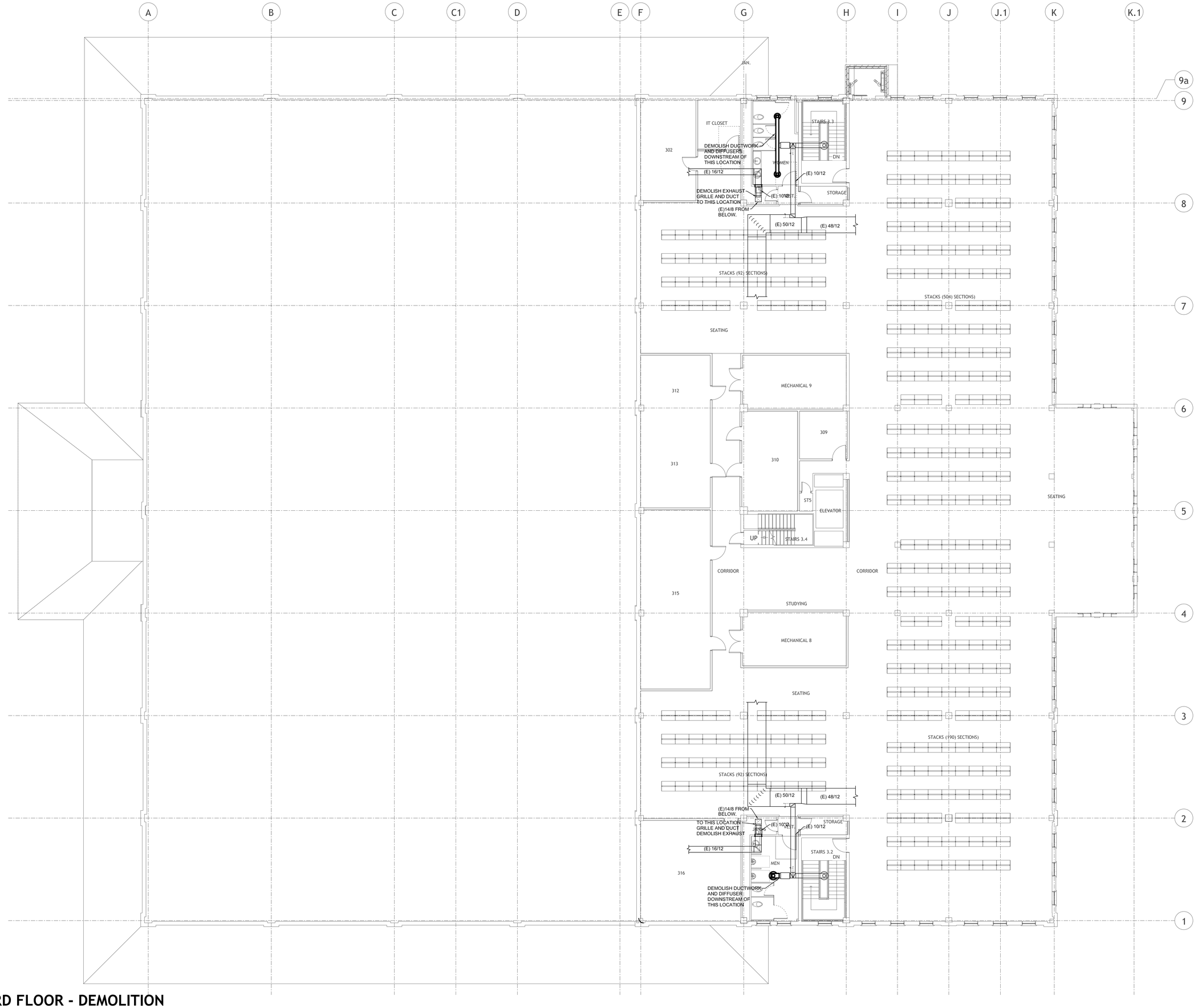
SECOND FLOOR - DEMOLITION

M-102



1 THIRD FLOOR - DEMOLITION

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

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THIRD FLOOR - DEMOLITION

M-103

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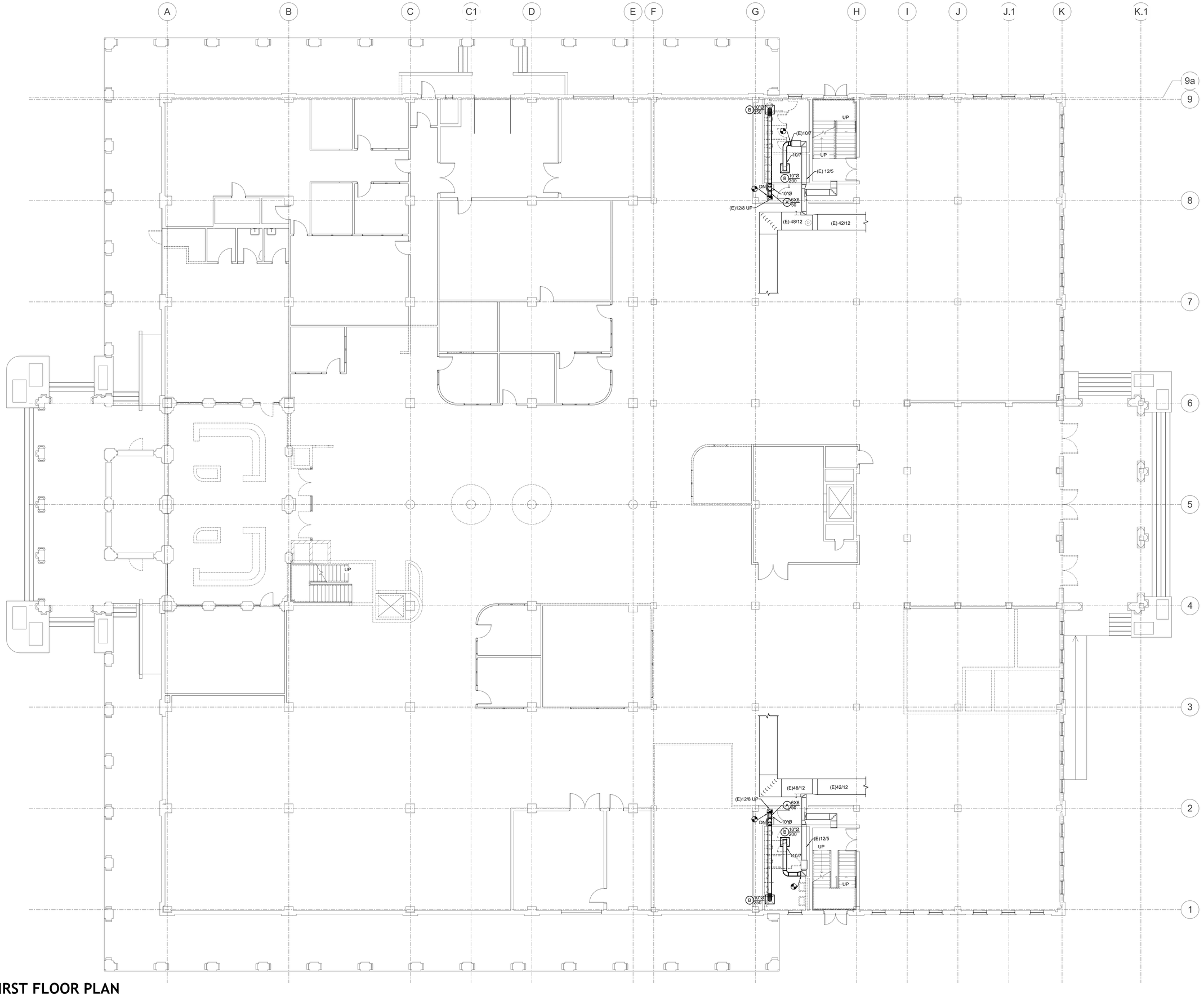

1 FIRST FLOOR PLAN
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10.3.1.2018.17210

100% CD SUBMISSION PHASE 1

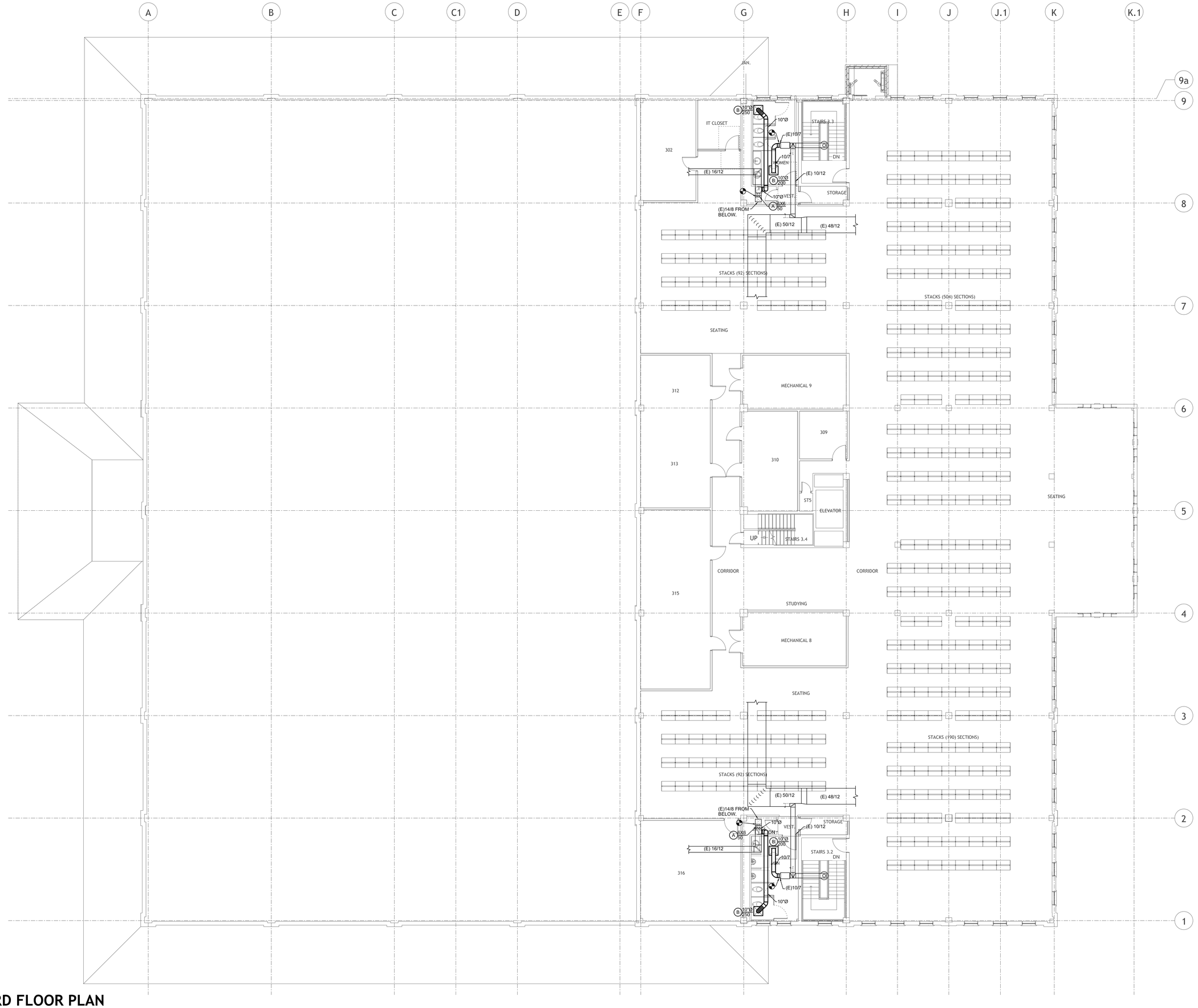
ISSUE DATE: 03.05.2018

REVISION	DESCRIPTION	DATE

HMBA PROJECT NUMBER: 06113.00

FIRST FLOOR PLAN

M-201



1 THIRD FLOOR PLAN

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

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SHEET SIZE = ARCH E1 30X42

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THIRD FLOOR PLAN

M-203

ELECTRICAL COMMON ABBREVIATIONS

A	AMPS
ACT	ABOVE COUNTER TOP
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CURRENT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GUAGE
BKR	CIRCUIT BREAKER
BLDG	BUILDING
C	CONDUIT
CKT	CIRCUIT
CLG	CEILING
D	DEPTH
DEG	DEGREES
DIS	DISCONNECT
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
EA	EACH
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER CPPOLER
FA	FIRE ALARM
FACP	FIRE ALARM COTROL PANEL
FLA	FULL LOAD AMPS
FT	FEET
G,GND	GROUND
GA	GUAGE
GFI	GROND FAULT INTERRUPTER
H	HEIGHT
HOA	HAND OFF AUTOMATIC
HP	HORSEPOWER
HVAC	HEATING VENTILLATION AND AIR CONDITIONING
HZ	HERTZ
IER	INTEGRATED EQUIPMENT RATING
IG	ISOLATED GROUND
IN	INCHES
KCMIL	1000 CIRCULAR MILLS
KV	KILOVOLTS
KVA	KILOVOLT-AMPS
KVAR	KILOVOLT-AMPS REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
L	LENGTH
LB	POUNDS
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MRS	MOTOR RATED SWITCH
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO.	NUMBER
N/O	NORMALLY OPEN
N/C	NORMALLY CLOSED
O/C	ON CENTER
PF	POWER FACTOR
PH	PHASE
PVC	POLYVINYL CHLORIDE
RE:	REFERENCE, REFER
RLA	RUNNING LOAD AMPS
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
THRU	THROUGH
TYP	TYPICAL
U/F	UNDER FLOOR
U/G	UNDER GROUND
U/S	UNDER SLAB
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
VA	VOLT-AMPS
W/	WITH
W/O	WITHOUT
WP	WEATHER RESISTANT WHILE IN USE ENCLOSURE
XFMR	TRANSFORMER

APPLICABLE CODES

ENERGY CODE	2015 IECC
ELECTRICAL	2017 NEC
BUILDING CODE	2015 IBC
FIRE CODE	2015 IFC

SYMBOL LEGEND

STANDARD DUPLEX RECEPTACLE AT 18"AFF. REFER TO POWER SYMBOL LEGEND FOR SPECIFIC DEVICES AND APPLICATION.

A — STANDARD DUPLEX RECEPTACLE 'A' INDICATES RECEPTACLE 6" ABOVE BACKSPLASH

WALL OR EQUIPMENT MOUNTED J-BOX FOR DIRECT CONNECTION.

COMMUNICATIONS CONNECTIONS AT 18"AFF. PROVIDE 4X4 J-BOX AND 1"C IN WALL TO ACCESSIBLE SPACE OVERHEAD FOR COMMUNICATIONS CABLING. REFER TO DATA SYMBOL LEGEND FOR SPECIFIC DEVICES AND APPLICATION. INSTALL ABOVE COUNTER WHERE COUNTER IS SHOWN UNLESS NOTED OTHERWISE.

TEL — 4'X4' TELEPHONE BACKBOARD WITH 4" STANDOFFS

DISCONNECT, AMPS/FUSE/ENCLOSURE AS SHOWN EACH LOCATION USED.

PUMP#1
MEC14
H1A- 6,8,10

TWO DISCONNECT EXAMPLES SHOWN:

TOP EXAMPLE IS SCHEDULED PUMP#1 ON CIRCUIT H1A-6,8,10 SHOWN IN SCHEDULE "MECH" REFER TO SCHEDULE "ROOF" FOR SPECIFIC CONNECTION REQUIREMENTS

PUMP#1
25HP
3#500,#1G,4"C
600 A 600/3NF/NEMA 3R
H1A- 7,9,11

BOTTOM EXAMPLE IS PLAN VIEW 25HP PUMP#1 ON CIRCUIT H1A-7,9,11 WITH 3#500 HOTS, ONE #1 GROUND, IN 4" CONDUIT. DISCONNECT IS 600AMP NON-FUSED IN NEMA 3R ENCLOSURE

L1A — BRANCH PANELBOARD NAMED "L1A". REFER TO PANEBOARD SCHEDULES FOR DETAILS.

T1A — TRANSFORMER NAMED "T1A", INSTALL ON CONCRETE HOUSEKEEPING PAD UNLESS NOTED OTHERWISE.

H1A — BRANCH PANELBOARD NAMED "H1A". REFER TO PANEBOARD SCHEDULES FOR DETAILS.

D1A — DISTRIBUTION PANELBOARD NAMED "D1A". REFER TO PANEBOARD SCHEDULES FOR EACH DETAILS.

MSB — DISTRIBUTION SWITCHBOARD NAMED "MSB". REFER TO PANEBOARD SCHEDULES FOR DETAILS.

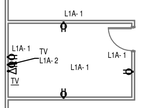
H1A- 4
A2
a

LIGHT FIXTURE. TAG DENOTES TYPE "A2", CIRCUITED TO PANEL "H1A" AND ZONE "a" WHEN NECESSARY. MODELED FIXTURE GRAPHICS VARY BY TYPE AND PLACEMENT REFER TO LIGHTING FIXTURE SCHEDULE FOR SPECIFIC INFORMATION.

LINE VOLTAGE TOGGLE SWITCH REFER TO LIGHTING DEVICE LEGEND FOR ALL TYPES USED.

LOW VOLTAGE OR DIGITAL BUTTON SWITCH REFER TO SWITCH SYMBOL LEGEND FOR ALL TYPES USED.

1 — EXAMPLE NOTE BY SYMBOL #1, REFER TO SCHEDULE OF NOTES FOR SPECIFIC INFORMATION



EXAMPLE SHOWS ROOM WITH 4 RECEPTACLES ON CIRCUIT LA1-1, AND ONE TELEVISION OUTLET TYPE 'TV' OUTLET ON DEDICATED CIRCUIT LA1-2. ONE DATA JACK TYPE TV.

FIRE ALARM GENERAL NOTES

1. DRAWINGS DO NOT SHOW EXACT PLACEMENT OF DEVICES. THE CONTRACTOR SHALL EMPLOY A FIRE ALARM PLANNING SUPERINTENDENT, CERTIFIED BY THE STATE FIRE MARSHAL'S OFFICE, TO DESIGN AND INSTALL THE FIRE ALARM SYSTEM. THE FIRE ALARM PLANNING SUPERINTENDENT SHALL PREPARE PERMIT DOCUMENTS, USING EXACT DEVICES TO BE PROVIDED BY THE MANUFACTURER, AND SHALL BE RESPONSIBLE TO ENSURE THAT HIS DESIGN MEETS ALL OF THE REQUIREMENTS OF NFPA, ADA, NEC, TAS AND ALL LOCAL CODES AND AMENDMENTS, AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION
2. IN ADDITION PROVIDE SMOKE DUCT DETECTORS FOR EACH AIR HANDLING UNIT EXCEEDING 2000CFM. DETECTORS SHALL BE MONITORED BY MAIN FIRE ALARM PANEL PER LOCAL FIRE MARSHALL REQUIREMENTS.
3. FIRE ALARM DEVICES IN WORK AREAS ARE EXISTING TO REMAIN. CONTRACTOR SHALL DISCONNECT AND PROTECT THE DEVICES DURING CEILING DEMOLITION AND RE-INSTALL THEM ONCE THE NEW CEILINGS ARE INSTALLED

ELECTRICAL GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS OF ELECTRICAL CONSTRUCTION.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL CEILING MOUNTED DEVICES.
3. REFER TO ARCHITECTURAL INTERIOR ELEVATION DRAWINGS, WHERE THE ARCHITECT HAS DRAWN SUCH ELEVATIONS, FOR THE LOCATIONS OF ALL WALL MOUNTED DEVICES.
4. COORDINATE THE EXACT LOCATION OF ALL THERMOSTATS, STARTERS, DISCONNECTS, ETC. AND COORDINATE ALL REQUIREMENTS FOR CONTROL AND POWER WIRING WITH THE MECHANICAL CONTRACTOR OR THE TRADE PROVIDING THE EQUIPMENT.
5. ALL RECEPTACLE OUTLETS LOCATED WITHIN 6'-0" OF A WET BAR OR SINK SHALL BE GFI TYPE. ALL RECEPTACLE OUTLETS LOCATED OUTDOORS SHALL BE WP/GFI. ALL RECEPTACLES SERVING VENDING MACHINES SHALL BE GFI TYPE. ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS SHALL BE GFI TYPE.
6. ALL CONDUIT PENETRATIONS THROUGH THE ROOF TO SERVE MECHANICAL EQUIPMENT SHALL BE WITHIN THE ASSOCIATED EQUIPMENT ROOF CURB. COORDINATE LOCATIONS OF PENETRATIONS WITH THE MECHANICAL CONTRACTOR.
7. ALL DEVICE PLATE COLORS TO BE AS SPECIFIED BY ARCHITECT.
8. PROVIDE ACCESS DOORS IN WALLS AND CEILINGS WHERE ACCESS TO CONCEALED ELECTRICAL BOXES AND DEVICES IS REQUIRED. ALL ACCESS LOCATIONS ARE TO BE APPROVED BY ARCHITECT PRIOR TO INSTALL.
9. EACH BRANCH AND FEEDER CIRCUIT SHALL BE PROVIDED WITH A GROUND CONDUCTOR SIZED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE (NFPA 70), WHERE A CONDUIT CONTAINS MULTIPLE BRANCH CIRCUITS, PROVIDE A SINGLE GROUND CONDUCTOR UNLESS OTHERWISE NOTED.
10. CONDUIT, LIGHT FIXTURES, AND OTHER COMPONENTS MAY BE SHOWN LARGER THAN ACTUAL SIZE. CONDUIT ROUTING IS SHOWN WITH AN EXAGGERATED SPACING FOR CLARITY. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL CONTRACTORS TO ENSURE CONDUIT PLACEMENT DOES NOT CONFLICT WITH LOCATION SENSITIVE COMPONENTS SUCH AS LIGHT FIXTURES.
11. INTEGRATED EQUIPMENT RATINGS SHOWN ARE MINIMUMS. CONTRACTOR SHALL PROVIDE MANUFACTURER'S EQUAL OR NEXT HIGHER STANDARD RATINGS.
12. ALL PULL CORD/WIRE PROVIDED FOR EMPTY RACEWAY/CONDUIT SYSTEMS SHALL HAVE A MINIMUM STRENGTH OF 200 LBS TENSILE STRENGTH. ALL EMPTY CONDUITS SHALL HAVE A PULL CORD.
13. PROVIDE LUGS AS REQUIRED FOR ALL ELECTRICAL EQUIPMENT TO ACCEPT THE SIZE AND NUMBER OF CONDUCTORS SHOWN IN THESE DOCUMENTS.
14. ALL CONDUCTORS SHALL BE THWN/THHN UNLESS OTHERWISE INDICATED. CONDUCTORS SHALL BE RATED FOR 75 DEGREES C. TERMINATIONS SHALL BE RATED FOR 75 DEGREES C. DEVIATIONS SHALL COMPLY WITH NEC ARTICLE 110 FOR EXACT EQUIPMENT BEING PROVIDED. WHERE RECEPTACLES ARE SHOWN BACK-TO-BACK ON A COMMON WALL, OFFSET THE TWO BOXES AT LEAST SIX INCHES.
15. THERE SHALL BE NO SPLICES OF WIRING INSIDE PANELBOARDS OR DISCONNECT SWITCHES.ONLY ONE WIRE SHALL BE TERMINATED TO ANY SINGLE LUG ON A CIRCUIT BREAKER.
16. ALL WIRING AND CONDUIT SIZES SHALL BE BASED ON THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
17. UNLESS OTHERWISE NOTED, FOR HOMERUNS HAVING A TOTAL LENGTH OF 100' TO 200', USE #10 CONDUCTORS; FOR HOMERUNS HAVING A TOTAL LENGTH OF 200' OR GREATER, USE #8 CONDUCTORS.
18. COORDINATE THE REQUIREMENTS FOR OVERCURRENT PROTECTIVE DEVICE SIZE, DISCONNECT SWITCH SIZE, AND CONDUCTOR AND CONDUIT SIZES WITH THE REQUIREMENTS OF THE MECHANICAL EQUIPMENT THAT IS ACTUALLY TO BE INSTALLED AND PROVIDE AND INSTALL ALL ELECTRICAL COMPONENTS AS REQUIRED. THE ELECTRICAL COMPONENT SIZING SHOWN ON THESE DRAWINGS IS BASED UPON THE REQUIREMENTS FOR THE SPECIFIED MECHANICAL EQUIPMENT AVAILABLE AT THE TIME OF DESIGN. VARIATIONS IN REQUIREMENTS MAY OCCUR AS A RESULT OF THE PROVISION OF OTHER MANUFACTURER'S EQUIPMENT OR IN CHANGES TO THE SPECIFIED EQUIPMENT. SUCH REVISED REQUIREMENTS ARE A PART OF THIS CONTRACT AND SHALL BE ACCOMMODATED WITHOUT ADDITIONAL CHARGE.
19. FOR COORDINATION PURPOSES, DEVICES MAY BE MOVED A MAXIMUM DISTANCE OF FIVE FEET, PRIOR TO INSTALLATION, AT NO COST TO THE OWNER, UPON INSTRUCTION BY THE ARCHITECT OR ENGINEER
20. REFER TO SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIRE CAULKING REQUIREMENTS. ALL PENETRATIONS THROUGH FIRE WALLS AND SMOKE BARRIERS SHALL BE SEALED IN ACCORDANCE WITH CODE REQUIREMENTS.

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ABBREVIATIONS AND SYMBOLS

E-000

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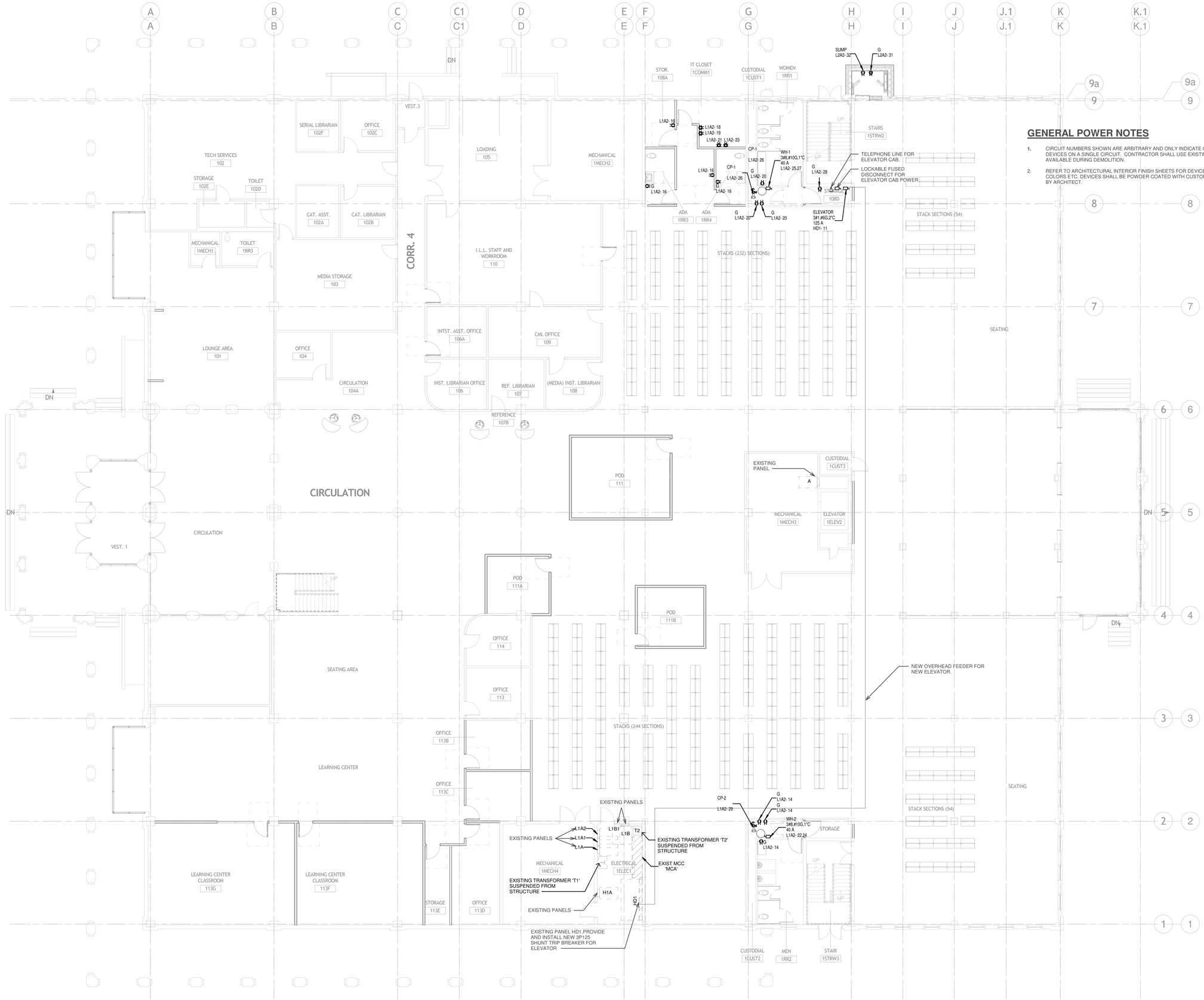

GENERAL POWER NOTES

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.

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

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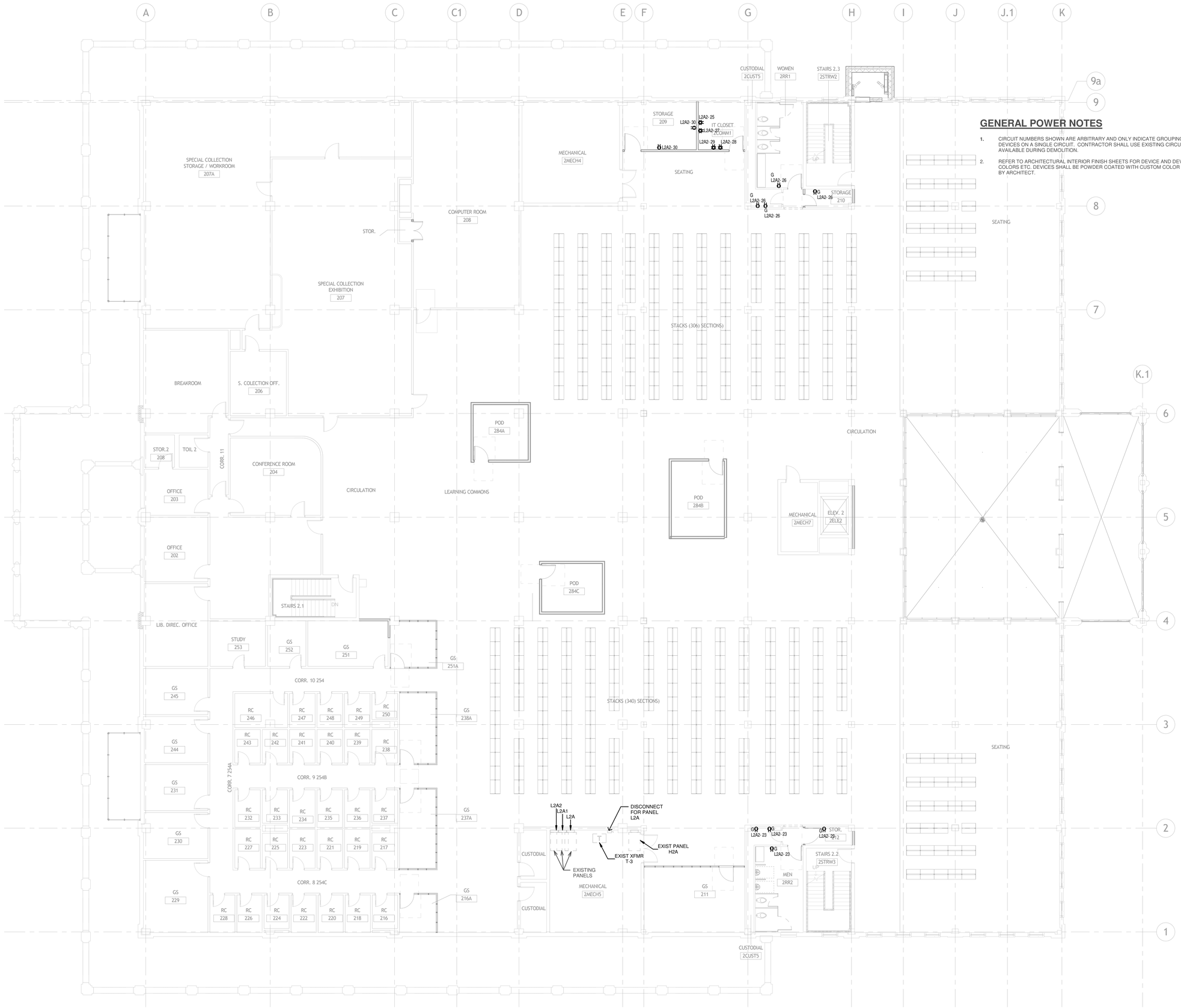
FIRST FLOOR POWER PLAN

E-101



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SECOND FLOOR POWER PLAN

E-102

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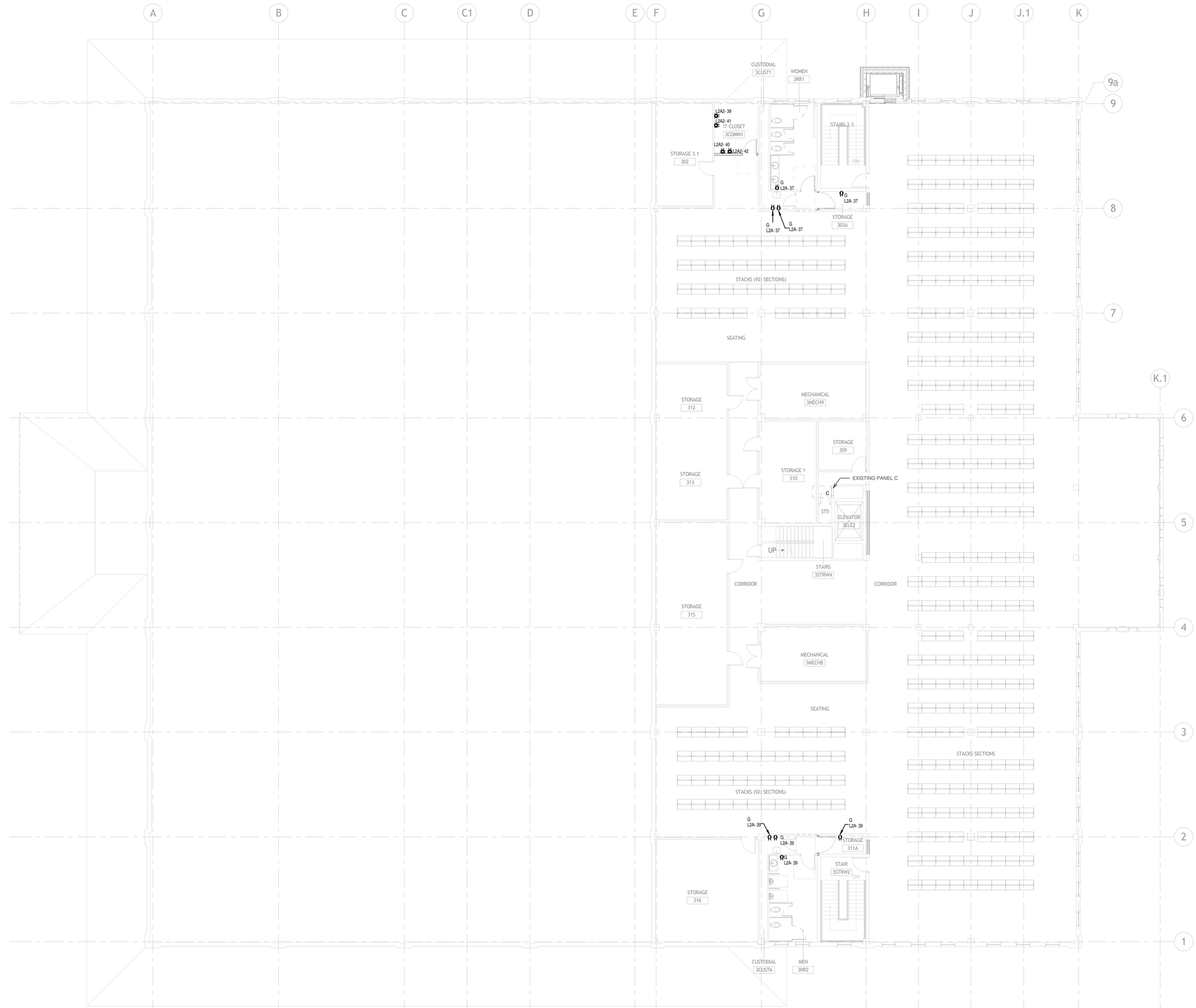

1 ELECTRICAL THIRD FLOOR
1/8" = 1'-0"

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THIRD FLOOR POWER PLAN

E-103

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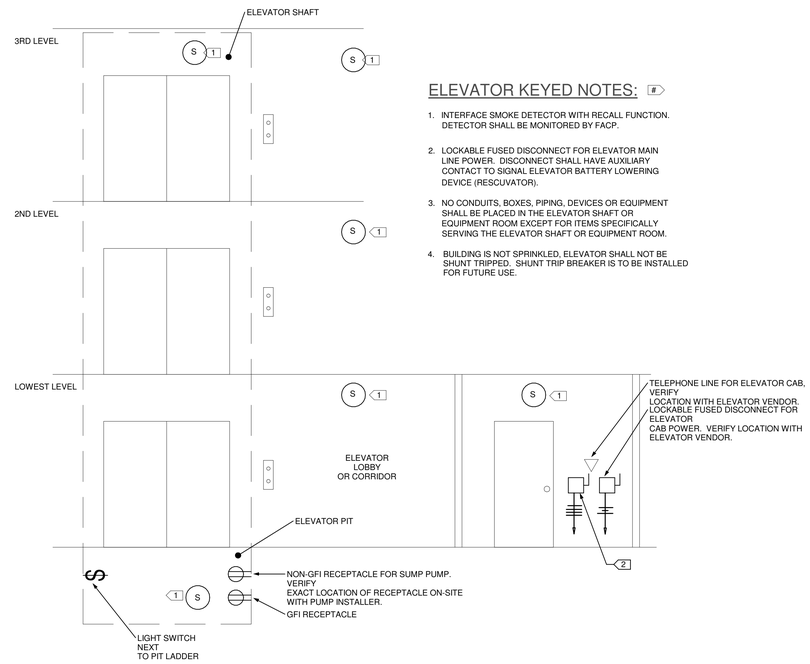
ELECTRICAL POWER DETAILS

E-105

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
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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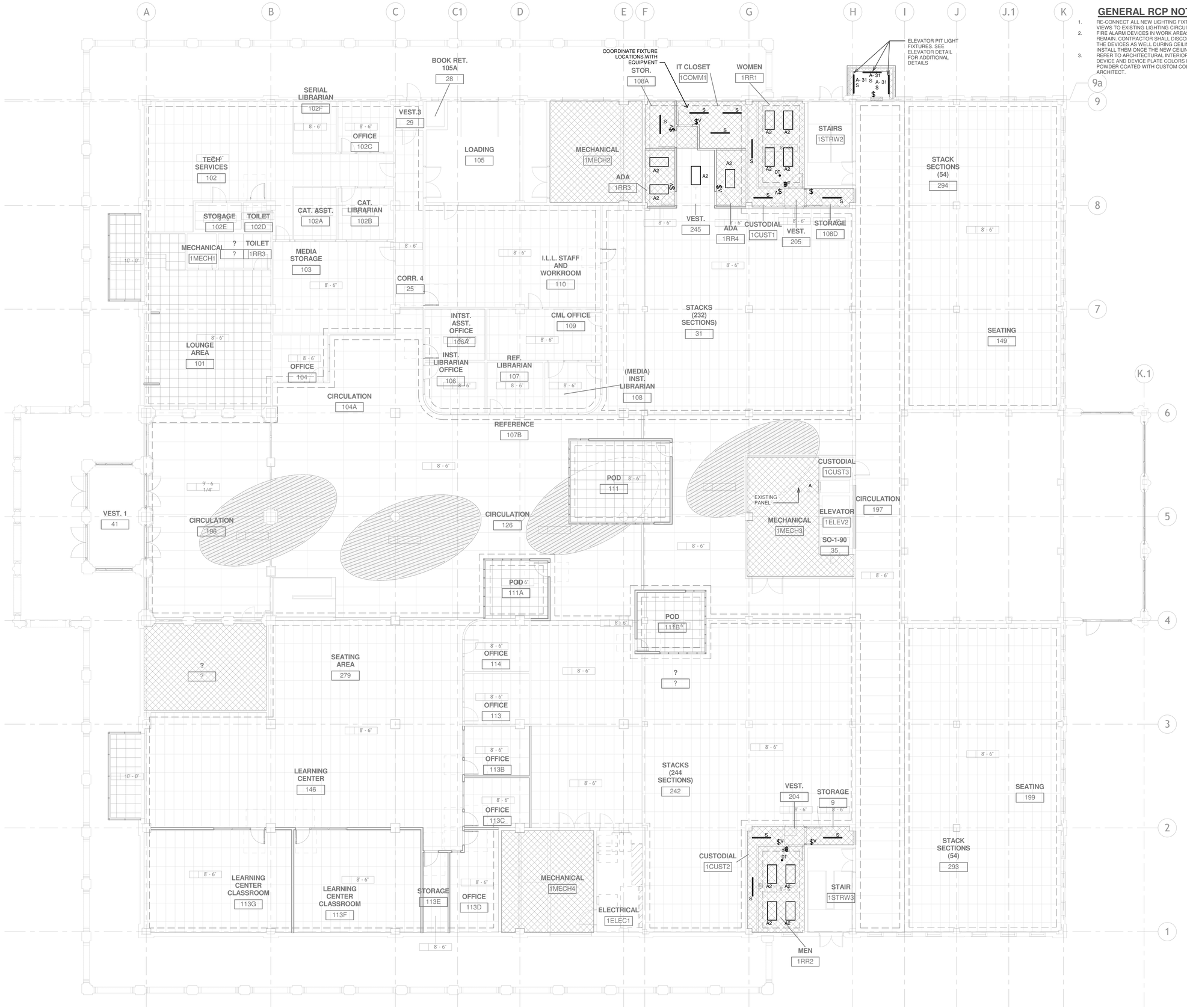

1 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"

HOLZMAN MOSS BOTTINO ARCHITECTURE

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HMBA PROJECT NUMBER: 06113.00

FIRST FLOOR LIGHTING PLAN

E-201

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GENERAL RCP NOTES

1. RE-CONNECT ALL NEW LIGHTING FIXTURES SHOWN ON PLAN VIEWS TO EXISTING LIGHTING CIRCUITS IN THESE LOCATIONS
2. FIRE ALARM DEVICES IN WORK AREAS ARE EXISTING TO REMAIN. CONTRACTOR SHALL DISCONNECT AND PROTECT THE DEVICES AS WELL DURING CEILING DEMOLITION AND RE-INSTALL THEM ONCE THE NEW CEILINGS ARE INSTALLED
3. 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 SECOND FLOOR LIGHTING PLAN
1/8" = 1'-0"

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SECOND FLOOR LIGHTING PLAN

E-202

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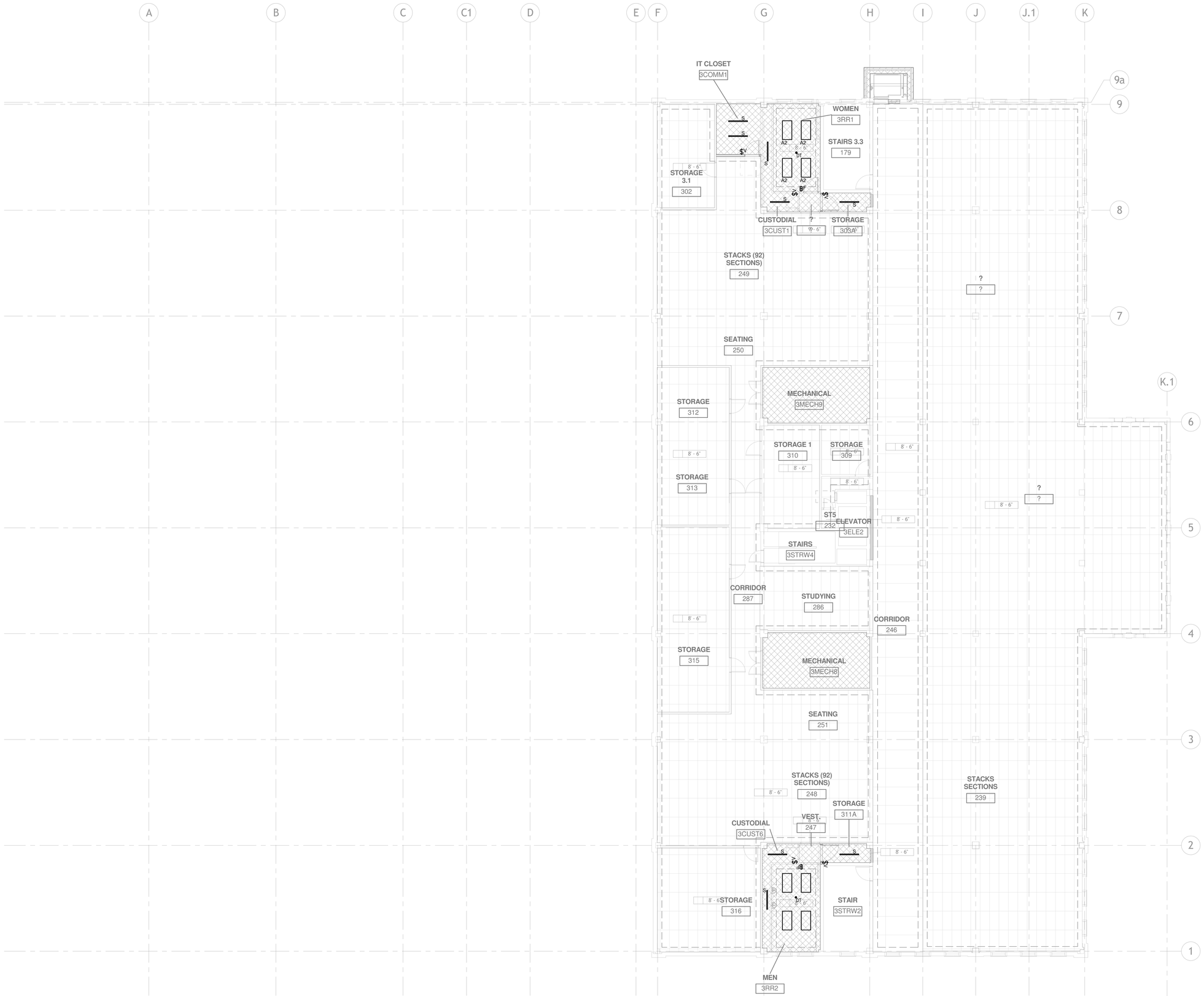

1 THIRD FLOOR LIGHTING PLAN
1/8" = 1'-0"

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THIRD FLOOR LIGHTING PLAN

E-203

GENERAL ENERGY CODE REQUIREMENTS :

ALL AREAS LISTED BELOW ARE TO HAVE OCCUPANCY SENSOR CONTROLS.
CLASSROOMS/LECTURE/TRAINING ROOMS.
CONFERENCE/MEETING/MULTIPURPOSE ROOMS
COPY/PRINT ROOMS
LOUNGES
EMPLOYEE LUNCH AND BREAK ROOMS
PRIVATE OFFICES
RESTROOMS
STORAGE ROOMS
JANITORIAL CLOSETS
LOCKER ROOMS
OTHER ENCLOSED SPACES 300 SQ.FT. OR LESS
WAREHOUSES(WAREHOUSE TO BE SENSORED BY AISLEWAY)

ALL SENSORS TO FUNCTION MANUAL ON AUTOMATIC OFF.
AUTOMATIC ON MAY BE USED IF ON LEVEL IS LESS THE 50% OF THE LIGHTING
AUTOMATIC ON TO 100% IS ALLOWED FOR PUBLIC CORRIDORS, LOBBIES AND SIMILAR PUBLIC USE ONLY AREAS

AREAS NOT PROVIDED WITH OCCUPANCY SENSORS AS LISTED ABOVE SHALL BE ON TIME BASED SCHEDULE. TIME SWITCH CONTROLS SHALL PROVIDE MAXIMUM 2-HOUR OVERRIDE (MAXIMUM 5000SQ.FT EACH OVERRIDE) WITHIN SPACE CONTROLLED OR HAVE A PILOT LIGHT AND MAP OF LIGHTING CONTROLLED.

MALLS, ARCADES, AUDITORIUMS, SINGLE TENANT RETAIL, INDUSTRIAL FACILITIES AND ARENA ARE EXEMPT FROM THE 2-HOUR LIMIT ON OVERRIDE TIME AND MAY CONTROL SPACES UP TO 20,000 SQ.FT.

AREAS NOT EXEMPTED FROM TIME BASE CONTROLS SHALL HAVE REDUCTION CONTROLS LOCATED IN SPACE FOR MINIMUM 50% REDUCTION BY OCCUPANT.
LIGHTING REDUCTION IS NOT REQUIRED FOR ROOMS WITH ONLY ONE LIGHT FIXTURE, ROOMS USING LESS THAN .6W/SQ.FT. CORRIDORS, EQUIPMENT ROOMS, PUBLIC LOBBIES.

TIME CONTROLS MUST BE CAPABLE OF
7-DAY CLOCK WITH DIFFERENT SCHEDULE EACH DAY
HAVE HOLIDAY SCHEDULING CAPABILITY
10 HOUR BACKUP FOR PROGRAMMING

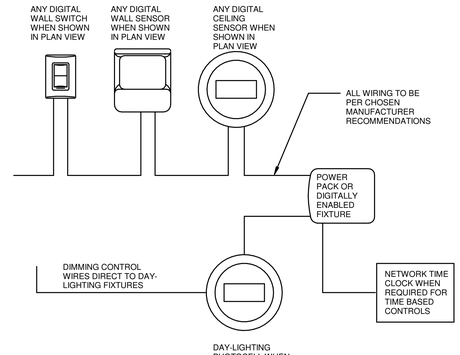
AREAS THAT HAVE SPECIAL EXEMPTIONS THAT MUST BE EVALUATED ON CASE BY CASE BASIS.
SLEEPING AREAS RESIDENTIAL OR FIREMAN TYPE SLEEPING AREAS.
PATIENT CARE AREAS.
AREAS WHERE AUTOMATIC LIGHTING SHUTOFF WOULD ENDANGER LIFE SAFETY.
DWELLING UNITS WITHIN COMMERCIAL BUILDINGS.
WAL-IN COOLER AND FREEZERS.

EXTERIOR LIGHTING ENERGY CODE REQUIREMENTS :

ALL EXTERIOR LIGHTING SHALL BE CONTROLLED AS A FUNCTION OF AVAILABLE LIGHT.
LIGHTING SHALL BE REDUCED BY MINIMUM OF 30% AFTER MIDNIGHT AT THE LATEST TO 6AM. OR 1-HOUR AFTER CLOSING AND 1 HOUR BEFORE BUSINESS OPENING. OR ANYTIME OF INACTIVITY OF MORE THAN 15 MINUTES.

EXEMPTIONS TO EXTERIOR LIGHTING.
EMERGENCY EGRESS LIGHTING
COVERED VEHICLE ENTRANCES TO PARKING STRUCTURES.
BUILDING FACADE(AFFECT LIGHTING) OR LANDSCAPE LIGHTING MAY BE PHOTOCELL ONLY.

AREAS DETERMINED TO BE SAFETY RELATED WHICH AUTOMATIC LIGHTING CONTROLS WOULD ENDANGER LIFE SAFETY OR ARE EXEMPT FOR EGRESS RELATED LIFE SAFETY CONCERNS ARE INDICATED IN THE ROOM BY THE "SR" ZONE SYMBOL



NOTE:
ALL POWER PACKS TO BE MOUNTED ABOVE CEILING NEAREST THE FIRST WALL SWITCH SERVING THE ASSOCIATED ROOM. PLAN VIEW SHOWS QUANTITY OF ZONES REQUIRED MANUFACTURER MAY COMBINE POWER PACKS WHERE POSSIBLE INTO MULTI ZONE POWER PACKS.
ALL EMERGENCY BATTERY PACK DECORATIVE FIXTURES ARE TO TURN ON/OFF WITH ASSOCIATED ROOM, BUT OVERRIDE TO ON IF POWER IS LOST.
ALL EXIT LIGHTING AND BATTERY PACK ONLY FIXTURES ARE TO BE WIRED TO UN-SWITCHED LEG OF CIRCUITS SHOWN FOR CONSTANT POWER.

"DLC" SEQUENCE OF OPERATION:

SENSOR SHALL TURN LIGHTS OFF IF ROOM IS VACANT FOR MORE THAN 30 MIN.

SENSOR WILL TURN LIGHTS ON WHEN WALL SWITCH IS ACTIVATED.

EACH ZONE INDICATED REQUIRES 1 BUTTON FOR ON/OFF CONTROL.

EMERGENCY LIGHTING:
EMERGENCY LIGHTING SHOWN SHALL OPERATE WITH NORMAL LIGHTING IN THE AREA AND BE FORCED ON IN THE EVENT OF A POWER LOSS.

DESIGN REFERENCE:
DETAIL IS GENERIC IN NATURE. PLAN VIEWS WILL INDICATE NUMBER OF ZONES WITH NUMBER/TYPE OF POWER PACK ZONES REQUIRED. PLAN VIEW WILL INDICATE LOCATION OF DIGITAL WALL SWITCHES WITH NUMBER OF BUTTONS REQUIRED. EACH MANUFACTURER IS DIFFERENT IN DEVICES AVAILABLE AND WIRING. ACCEPTABLE MANUFACTURERS ARE WATT STOPPER , LUTRON AND ACUITY CONTROLS. OTHERS WILL BE CONSIDERED WITH PRE-APPROVAL PRIOR TO BIDDING.

DIGITAL LIGHTING CONTROL DETAIL

GENERAL NOTES APPLY TO ALL :

SENSOR LOCATIONS ARE MINIMUMS, CONTRACTOR SHALL PROVIDE FOR A MINIMUM OF 10% ADDITIONAL DEVICES TO COVER DARK SPOTS DISCOVERED DURING CONSTRUCTION FROM FIELD INSTALLED OBSTRUCTIONS. CONTRACTOR SHALL ALSO ALLOW FOR A MOVE OF UP TO 5'-0" IN ANY DIRECTION FOR ALL SENSORS AT NO ADDITIONAL COST TO THE OWNER, TO ALLOW FOR FIELD ADJUSTMENT OF SENSOR PLACEMENTS TO ACHIEVE OPTIMUM PERFORMANCE.

CONTRACTOR SHALL PROVIDE A MINIMUM OF 2 SITE VISITS BY FACTORY TRAINED PERSONNEL TO ADJUST AND TRAIN THE OWNER ON USE AND MAINTENANCE OF ALL LIGHTING CONTROL COMPONENTS.

SWITCH SYMBOL LEGEND

SYMBOL / TYPE		SYMBOL DESCRIPTION
⊕	F	DIGITAL 1-BUTTON PER ZONE (ON/OFF). PROGRAM TO AUTOMATIC 100% ON, AUTOMATIC OFF AFTER 30 MINUTES. DUAL TECHNOLOGY OCCUPANCY SENSORS AS SHOWN IN PLAN VIEW. LOWER CASE LETTERS ADJACENT TO SWITCH INDICATES ZONES.
$		LINE VOLTAGE TOGGLE SWITCH
$	V	WALL MOUNTED LINE VOLTAGE VACANCY SENSOR, (ON/OFF). PROGRAM TO MANUAL 100% ON, AUTOMATIC OFF AFTER 30 MINUTES. DUAL TECHNOLOGY UNLESS OTHERWISE NOTED.
●	DT	DUAL TECH OCCUPANCY SENSOR

LIGHTING FIXTURE SCHEDULE

SCHEDULE NOTES:
1. PROVIDE ALL REQUIRED MOUNTING HARDWARE AND ACCESSORIES REQUIRED FOR MOUNTING NECESSARY

TYPE	DESCRIPTION	MANUFACTURER	MODEL#	VOLT	COLOR TEMP	LUMENS	VA
A2	2X4 LED RECESSED FIXTURE	LITHONIA	2BLT4-48LHE-ADP-EZ1-LP840	277 V	4000	4800	36 VA
S	LED STRIP FIXTURE	LITHONIA	ZL1N-L48-5000LM-FST-MVOLT-80CRI-WH	277 V	4000	5000	40 VA

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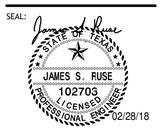

02/28/18

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LIGHTING DETAILS

E-204

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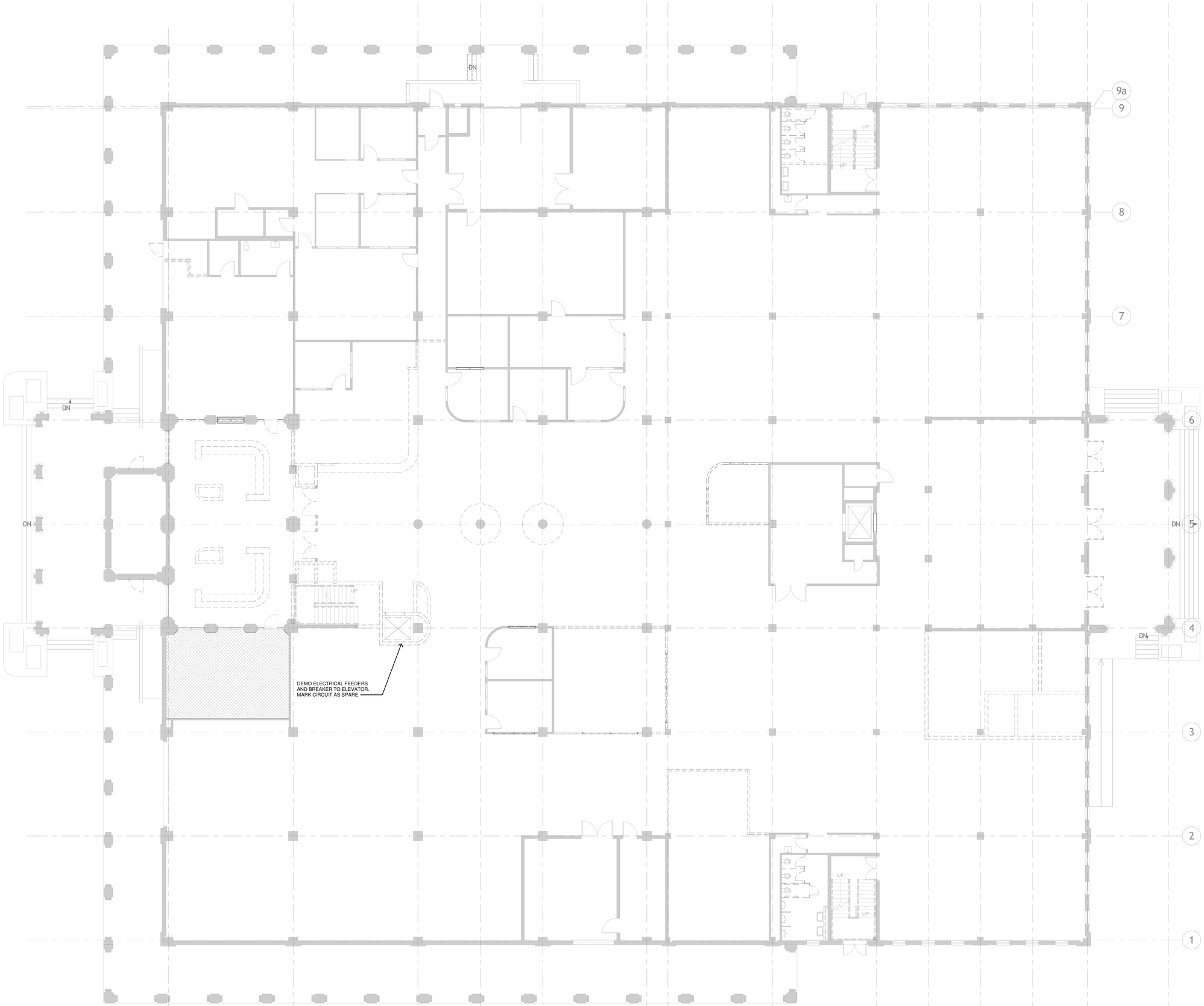

1 ELECTRICAL DEMO FIRST FLOOR
1/8" = 1'-0"

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FIRST FLOOR DEMOLITION PLAN

ED-101

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)
—O—	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
1.5%	DIRECTION OF PIPE SLOPE DOWN

VALVES AND FITTINGS

SYMBOL	DESCRIPTION
	SHUT-OFF / ISOLATION VALVE
	SHUT-OFF / ISOLATION VALVE
	PLUG VALVE / GAS COCK
PR	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	
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 F1000-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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03/05/2018

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REVISION	DESCRIPTION	DATE

HMBA PROJECT NUMBER: 06113.00

PLUMBING LEGENDS, NOTES, SCHEDULES

P-001

2/28/2018 11:08:21 AM

1 UNDER FLOOR PLUMBING

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

2/28/2018 11:08:28 AM

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UNDER FLOOR PLUMBING PLAN

P-100

1 FIRST FLOOR PLUMBING

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

2/28/2018 11:08:35 AM

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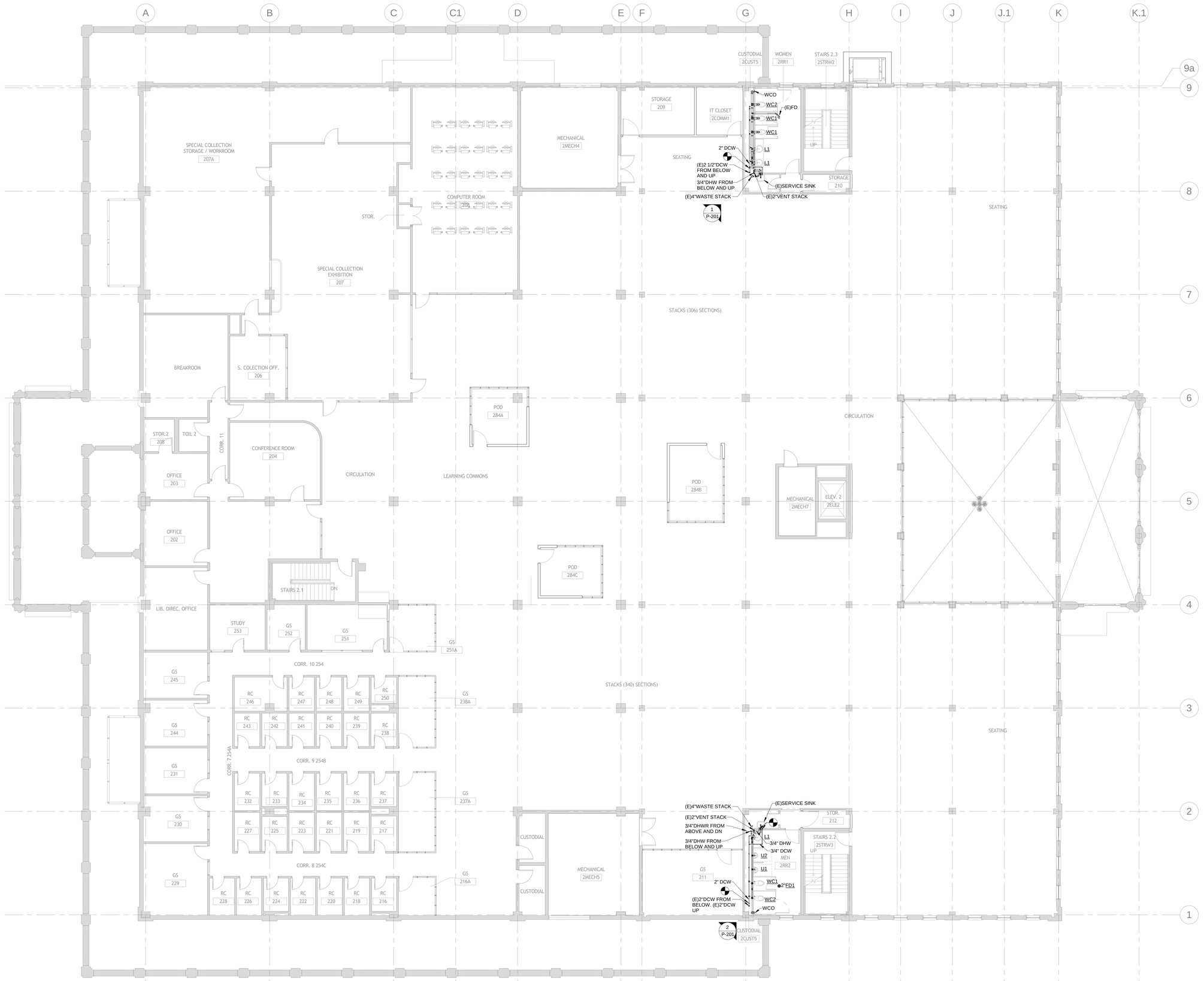
FIRST FLOOR PLUMBING PLAN

P-101



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

2/28/2018 11:08:37 AM

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HMBA PROJECT NUMBER: 06113.00

SECOND FLOOR PLUMBING PLAN

P-102

1 THIRD FLOOR PLUMBING

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

2/28/2018 11:08:39 AM

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ISSUE DATE: 03.05.2018

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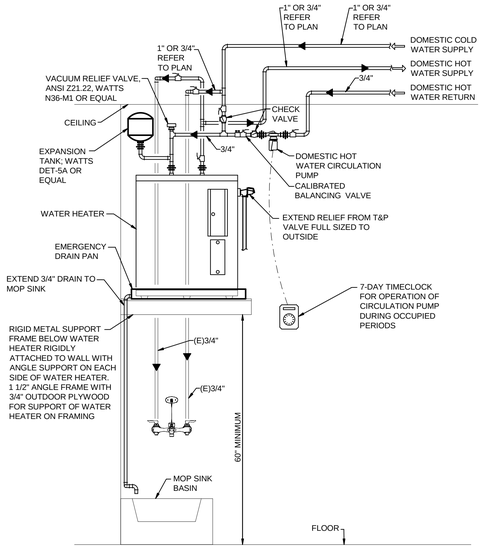
THIRD FLOOR PLUMBING PLAN

P-103



3 P-201 SUSPENDED WATER HEATER DETAIL
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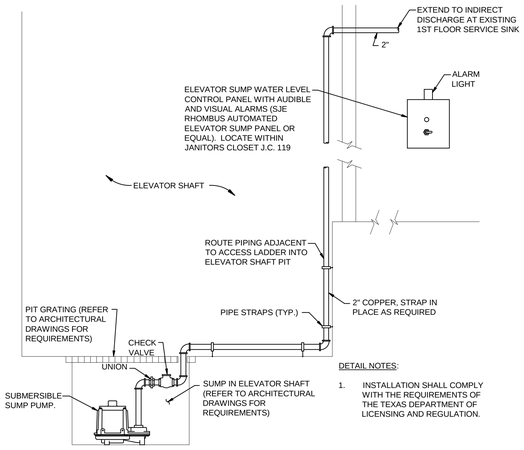

4 P-201 ELEVATOR SHAFT SUMP/SUMP PUMP DETAIL
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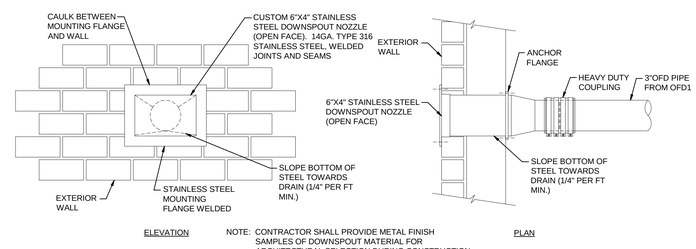

5 P-201 CUSTOM DOWNSPOUT NOZZLE DETAIL
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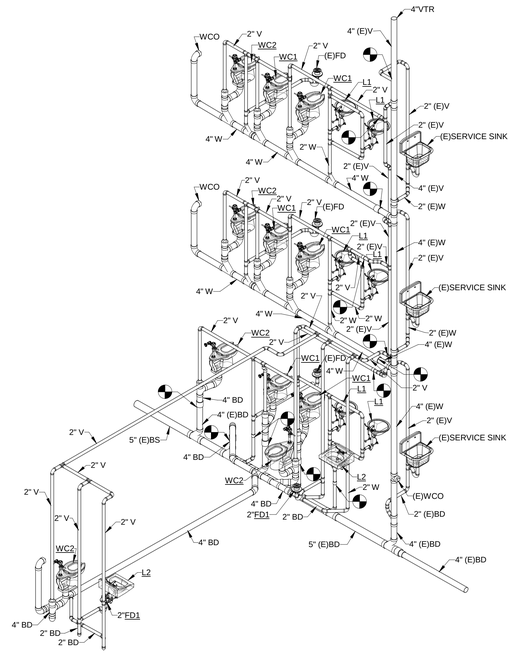
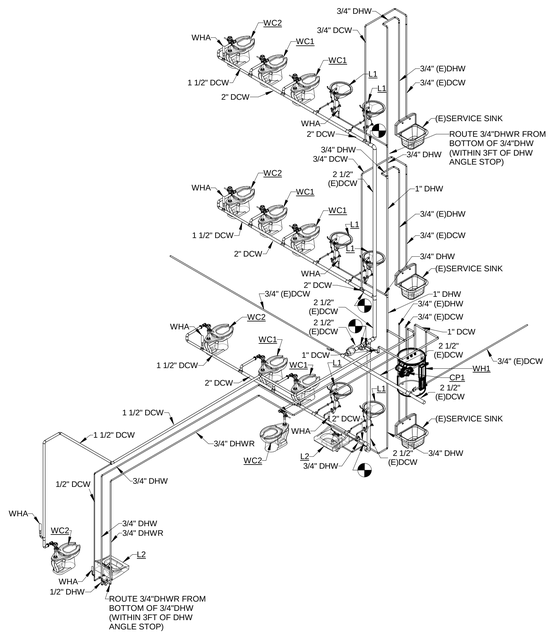


SANITARY WASTE AND VENT



DOMESTIC WATER

1 PLUMBING RISER DIAGRAM - WOMENS RESTROOMS
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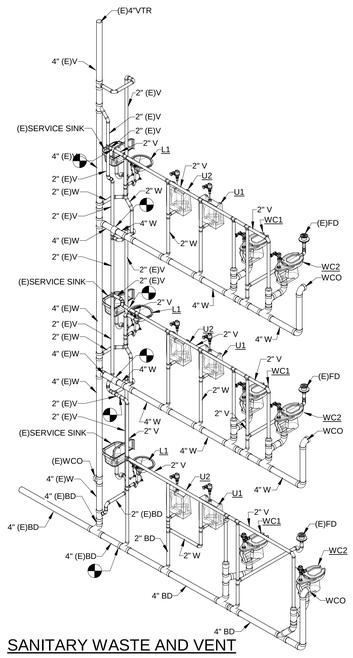
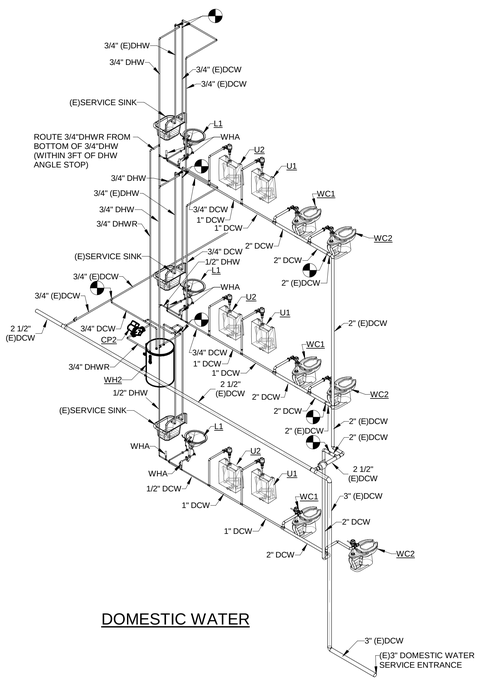


SANITARY WASTE AND VENT



DOMESTIC WATER

2 PLUMBING RISER DIAGRAM - MENS RESTROOMS
SCALE:

2/28/2018 11:08:44 AM

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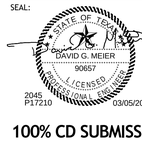

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REVISION	DESCRIPTION	DATE

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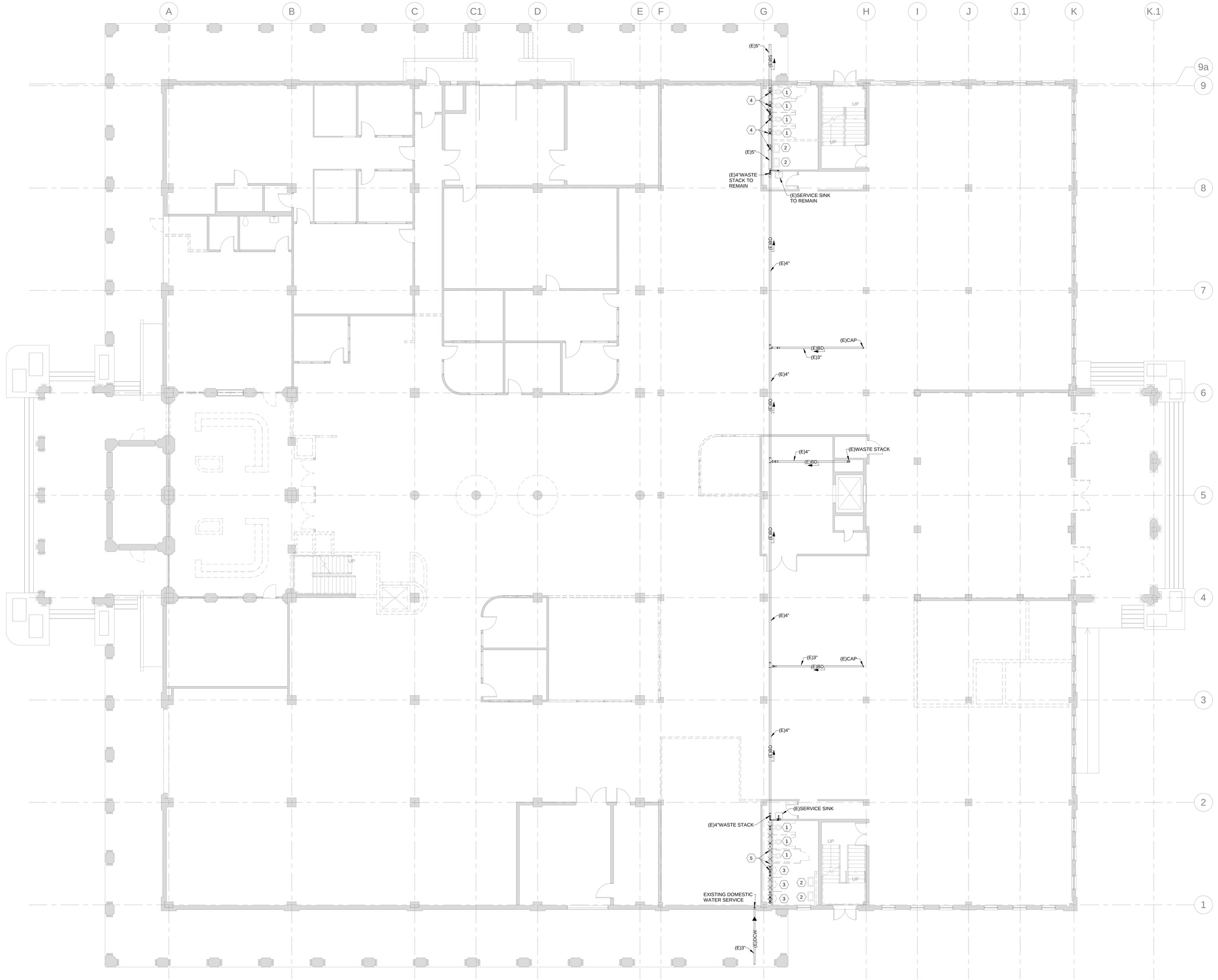
PLUMBING RISER DIAGRAMS AND DETAILS

P-201



1 UNDER FLOOR PLUMBING DEMOLITION

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

DP-100 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 WALL MOUNTED URINAL INCLUDING ALL ASSOCIATED SANITARY WASTE AND VENT PIPING. REMOVE FLUSH VALVE INCLUDING WATER PIPING AND APPURTENANCES.
4	REMOVE SANITARY WASTE PIPING TO ABOVE THE DEEP BUILDING DRAIN LATERAL. INTENT IS TO LEAVE THE ORIGINAL BUILDING DRAIN AND CONNECT NEW FIXTURES/CONNECTIONS TO EXISTING CONNECTIONS INTO THE BUILDING DRAIN
5	REMOVE SANITARY WASTE PIPING AND THE BUILDING DRAIN LATERAL.

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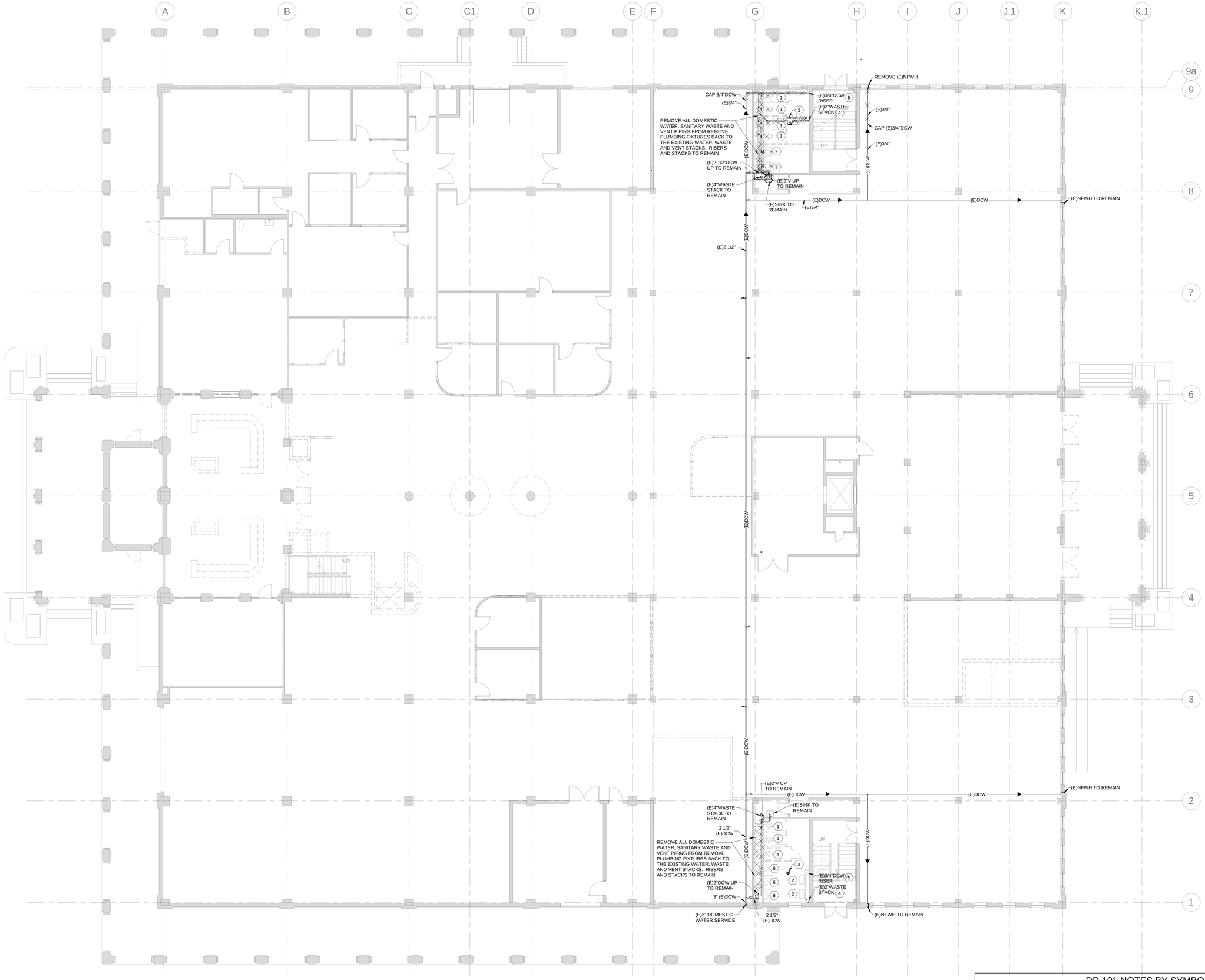
UNDER FLOOR PLUMBING DEMOLITION PLAN

DP100



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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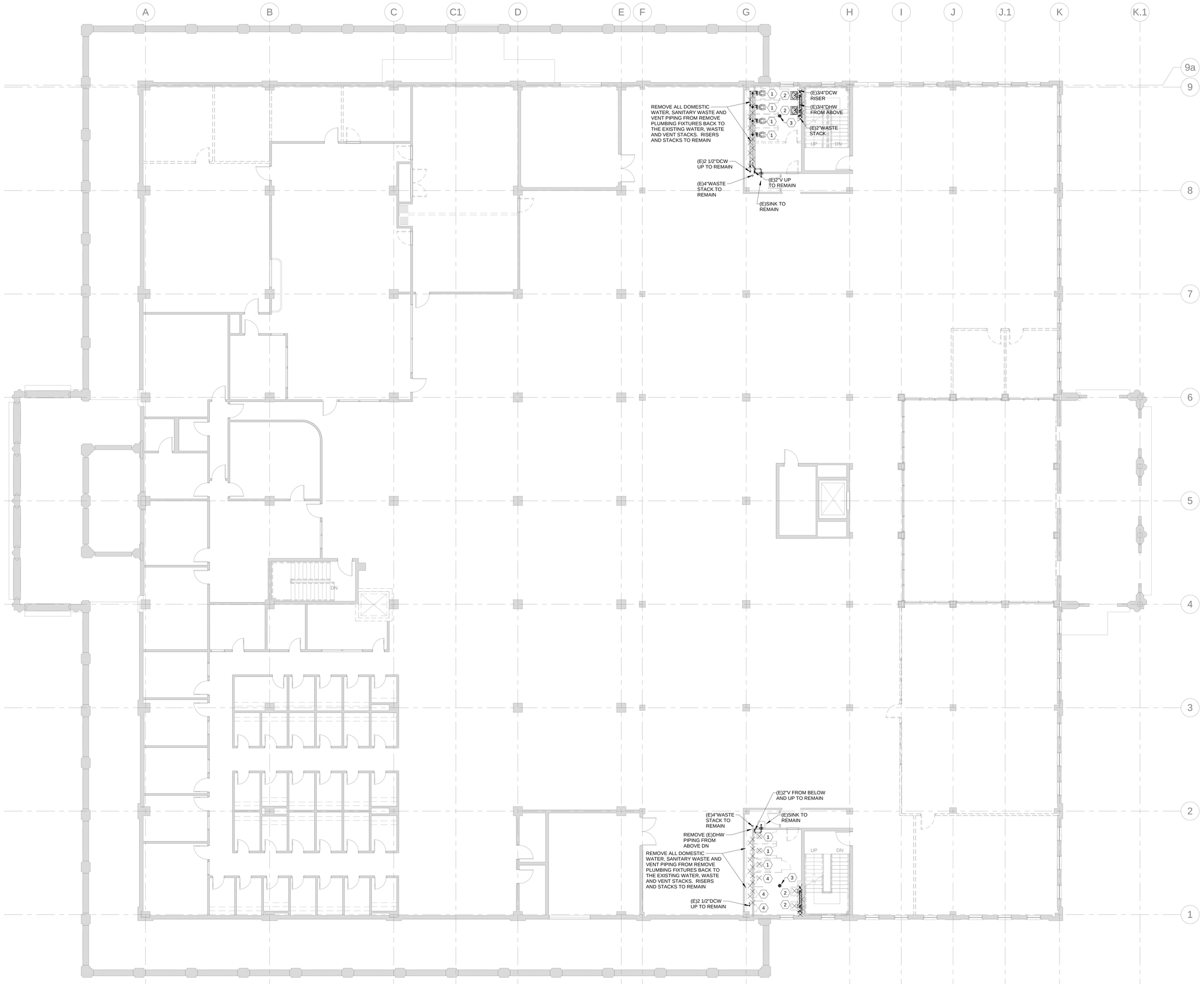

1 SECOND FLOOR PLUMBING DEMOLITION

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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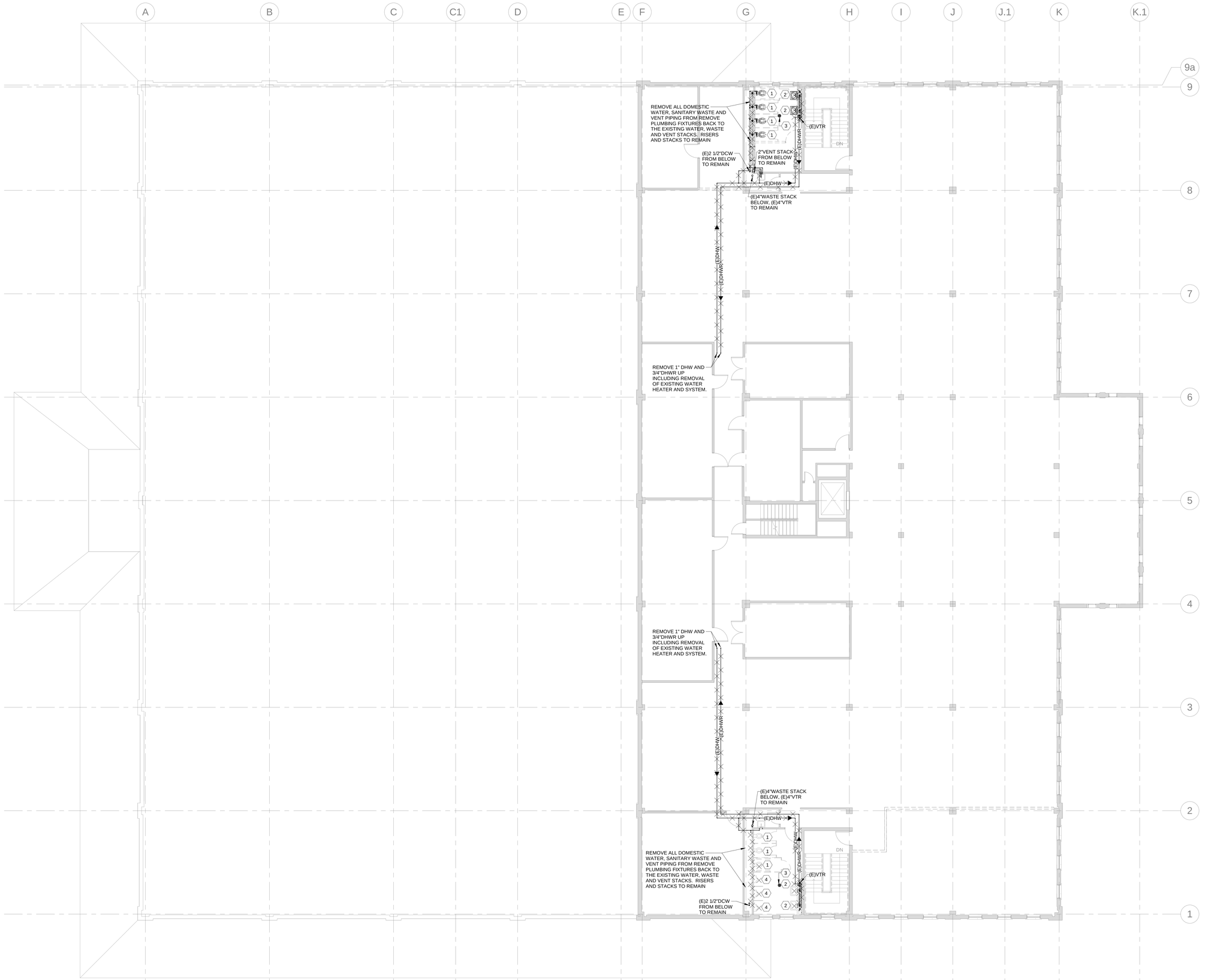

1 THIRD FLOOR PLUMBING DEMOLITION

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.

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THIRD FLOOR PLUMBING DEMOLITION PLAN

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