

H27-1976

Welsh Humanities Building Ground Floor Renovation

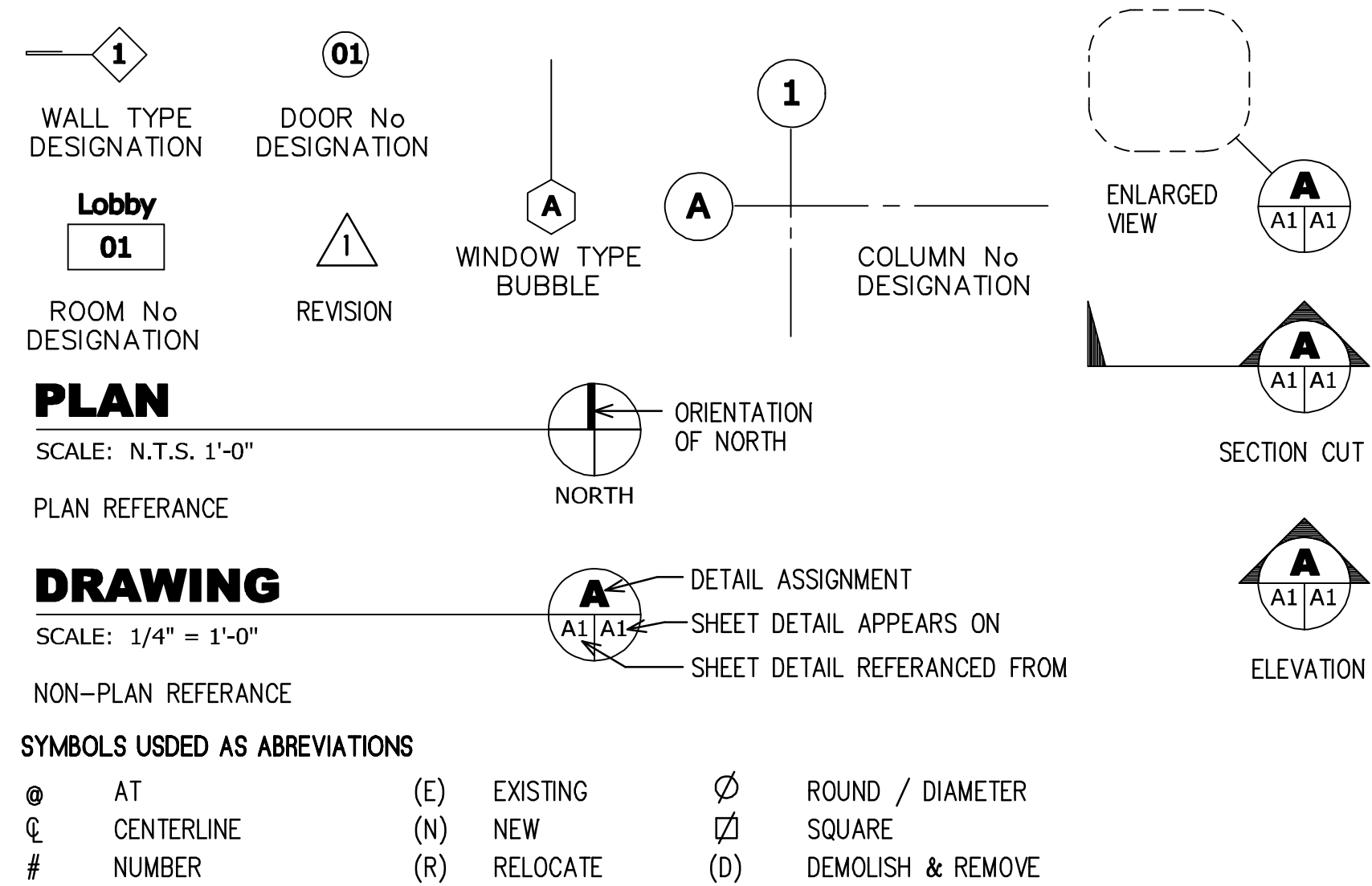
USC - Columbia Campus

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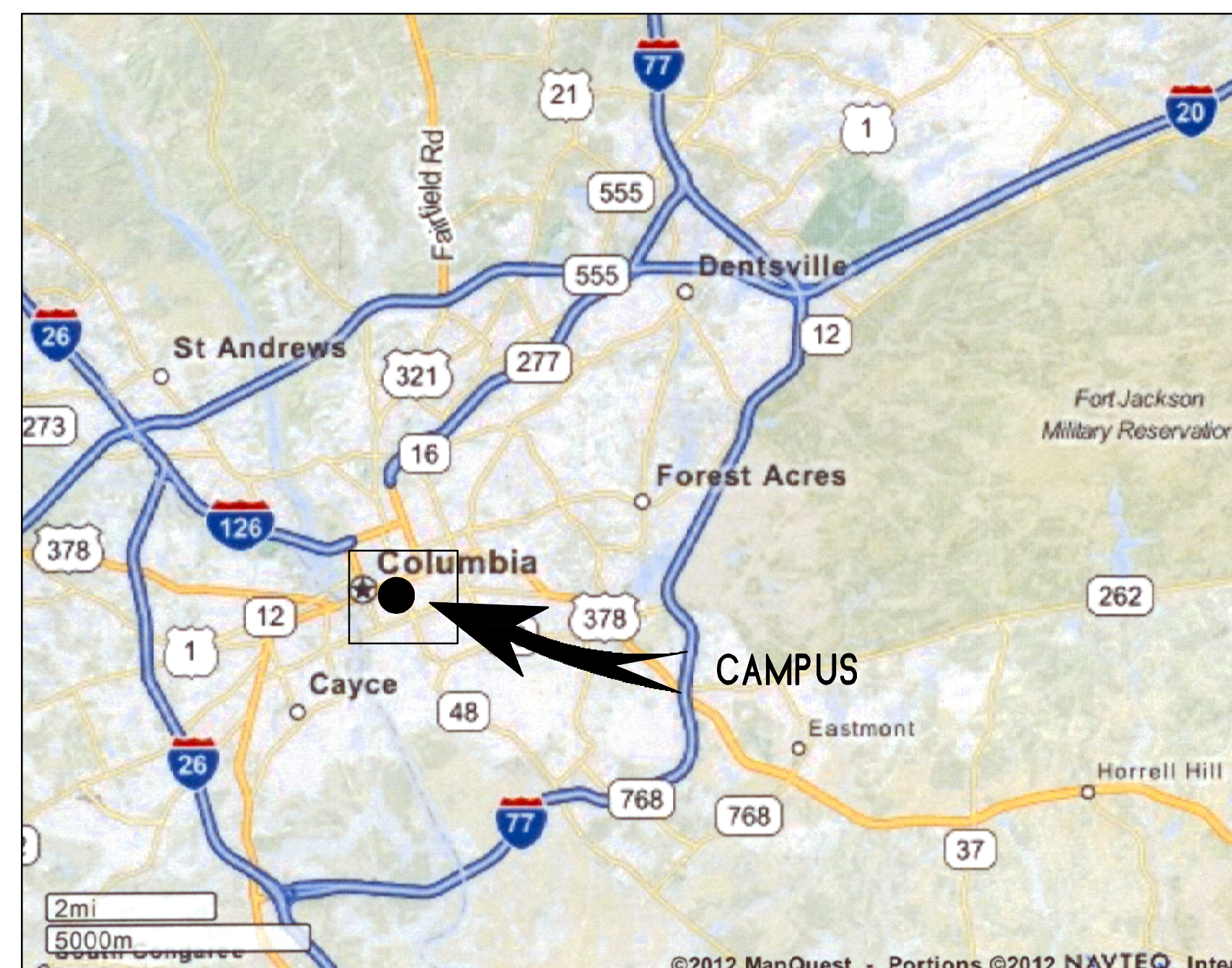
ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
ADA	AMERICAN WITH DISABILITIES ACT
AFF	ABOVE FINISH FLOOR
AHS	ABOVE HUNG CEILING
BLDG	BUILDING
BT	BASE TILE
CLG	CEILING
CT	CERAMIC TILE
CLR	CLEAR / CLEARANCE
CONST	CONSTRUCTION
CUST	CUSTOM
EA	EACH
E/A	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EXIST	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FIN	FINISH
FPF	FLOOR PAINT FINISH
FRP	FIBER REINFORCED PANEL
G	GROUT
GC	GENERAL CONTRACTOR
GL	GLASS / GLAZING
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HT	HEIGHT
INT	INTERIOR
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MIN	MINIMUM
MISC	MISCELLANEOUS
MTF	METAL FINISH
MTL	METAL
NTS	NOT TO SCALE
ORD	OVERFLOW ROOF DRAIN
PA	PAINT FINISH
PART	PARTITION
PCF	POWDER COAT FINISH
PC	PLUMBING CONTRACTOR
PL	PLASTIC LAMINATE
PRT	PART
PSI	POUNDS PER SQUARE INCH
QT	QUARRY TILE
R/A	RETURN AIR
RB	RUBBER BASE
RD	ROOF DRAIN
REIN	REINFORCE (ED) (ING)
S/A	SUPPLY AIR
SF	SQUARE FOOT
SPC	SPACE
SPF	SPECIAL PAINT FINISH
SS	STAINLESS STEEL
STD	STANDARD
TGC	TENANT GENERAL CONTRACTOR
THK	THICK (NESS)
TI	TENANT IMPROVEMENT
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WCF	WALL COVER FINISH
WD	WOOD
WF	WOOD FINISH

SYMBOLS



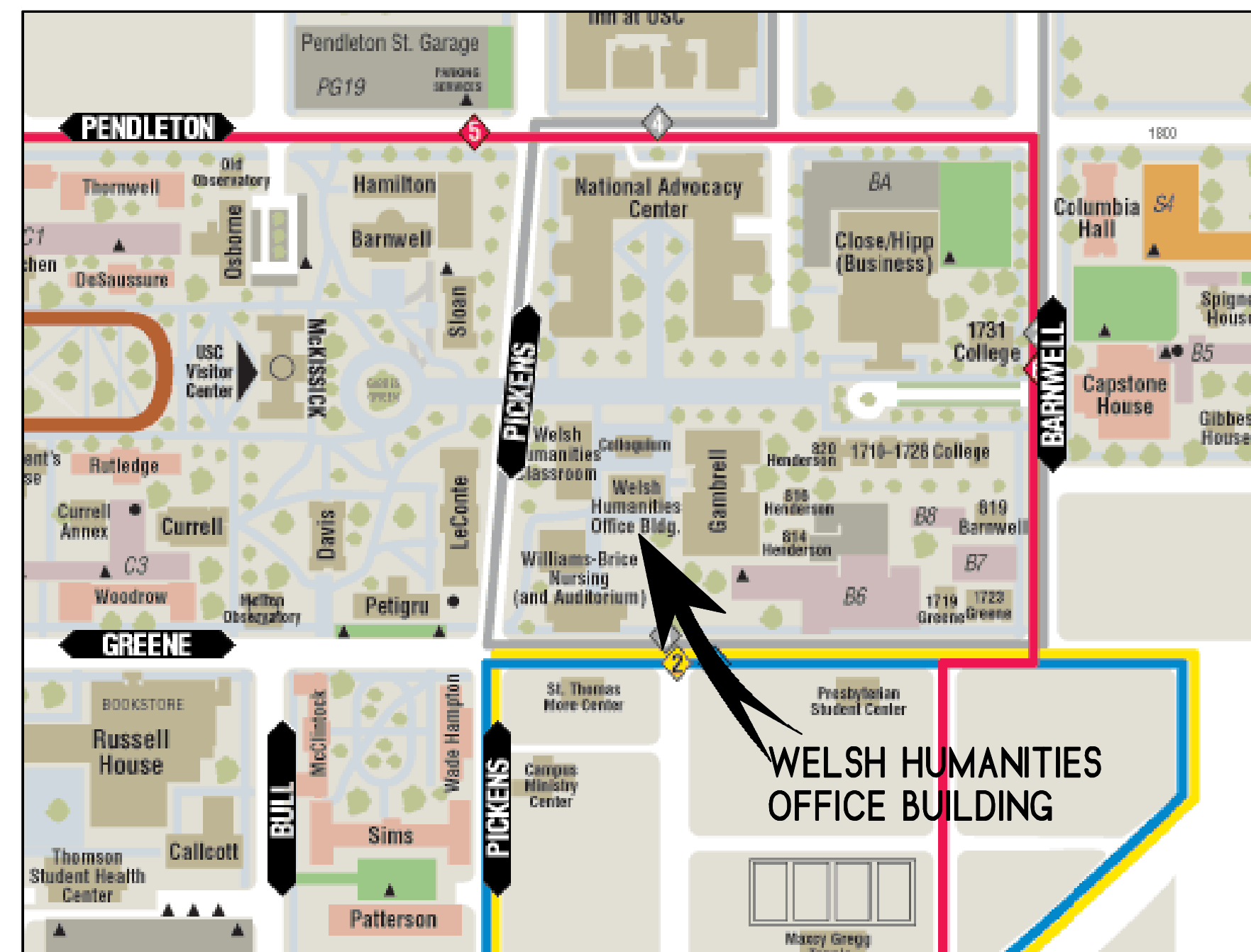
VICINITY MAP



SHEET INDEX

C1	COVER	PLUMBING
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D2	PHASE 2	P2 PLUMBING NOTES, SCHEDULES AND DETAILS
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A7	BUILDING SECTION	
A8	BASEMENT PLAN	

CAMPUS MAP



PROJECT TEAM

BUILDING OWNER / AGENCY
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ARCHITECT:
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MECHANICAL ENGINEER
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PROJECT SUMMARY

PROJECT INCLUDES COMPLETE RENOVATION TO THE WESTERN 40% OF THE GROUND FLOOR OF THE WELSH HUMANITIES BUILDING INCLUDING ABATEMENT, DEMOLITION, NEW STOREFRONT CAPTURING ADDITIONAL SQUARE FOOTAGE, PARTITIONING, SPACE FINISHES, MECHANICAL AND ELECTRICAL. BASE BID INCLUDES ALL WORK SHOWN ON THE PROJECT DOCUMENTS EXCEPT FOR ALTERNATES No 1 AND No 2. BASE BID DOES NOT INCLUDE ALTERNATES No 1 AND No 2.

SEE SHEET A3 FOR ADD ALTERNATE No 1 - CASEWORK

SEE SHEET A3 FOR ADD ALTERNATE No 2 - HORIZONTAL BLINDS

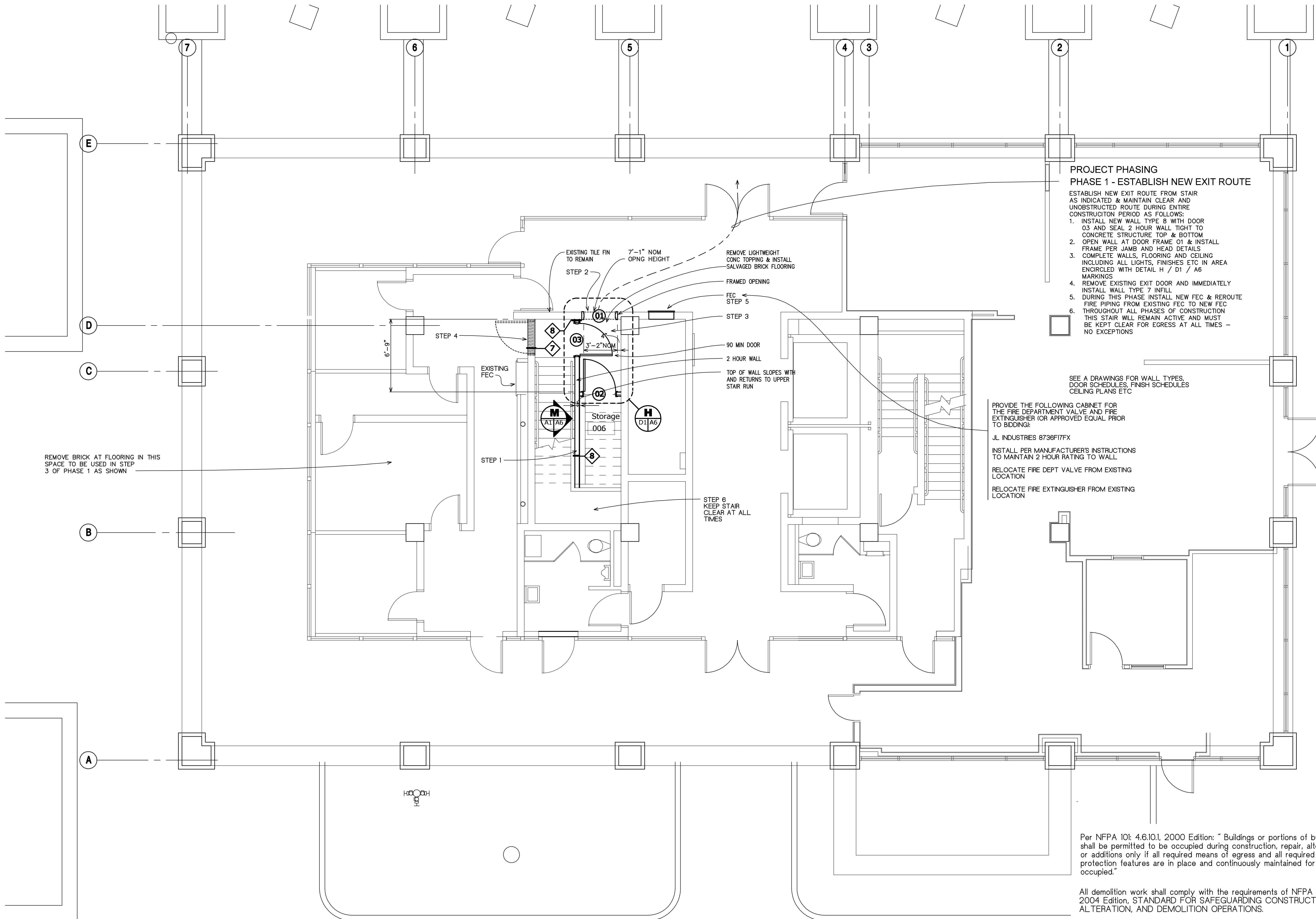
SEE PROJECT MANUAL FOR TILING ALLOWANCE

Job Number:	1008
Drawn by:	td
File name:	10081001 COVER.rvt
Plotted on:	4/19/2012
Drawing date:	3/20/2012
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Project No H27-1976
Columbia, S.C.



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Of	Sheets



REMOVE BRICK AT FLOORING IN THIS SPACE TO BE USED IN STEP 3 OF PHASE 1 AS SHOWN

PRE-DEMOLITION - PHASE 1

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

PROJECT PHASING
PHASE 1 - ESTABLISH NEW EXIT ROUTE

- ESTABLISH NEW EXIT ROUTE FROM STAIR AS INDICATED & MAINTAIN CLEAR AND UNOBSTRUCTED ROUTE DURING ENTIRE CONSTRUCTION PERIOD AS FOLLOWS:
1. INSTALL NEW WALL TYPE 8 WITH DOOR 03 AND SEAL 2 HOUR WALL TIGHT TO CONCRETE STRUCTURE TOP & BOTTOM OPEN WALL AT DOOR FRAME D1 & INSTALL FRAME PER JAMB AND HEAD DETAILS
 2. COMPLETE WALLS, FLOORING AND CEILING INCLUDING ALL LIGHTS, FINISHES ETC IN AREA ENCLOSED WITH DETAIL H / D1 / A6 MARKINGS
 3. REMOVE EXISTING EXIT DOOR AND IMMEDIATELY INSTALL WALL TYPE 7 INFILL
 4. DURING THIS PHASE INSTALL NEW FEC & REROUTE FIRE PIPING FROM EXISTING FEC TO NEW FEC
 5. THROUGHOUT ALL PHASES OF CONSTRUCTION THIS STAIR WILL REMAIN ACTIVE AND MUST BE KEPT CLEAR FOR EGRESS AT ALL TIMES - NO EXCEPTIONS

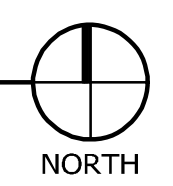
SEE A DRAWINGS FOR WALL TYPES, DOOR SCHEDULES, FINISH SCHEDULES, CEILING PLANS ETC

PROVIDE THE FOLLOWING CABINET FOR THE FIRE DEPARTMENT VALVE AND FIRE EXTINGUISHER (OR APPROVED EQUAL PRIOR TO BIDDING):

- JL INDUSTRIES 8736F17FX
- INSTALL PER MANUFACTURER'S INSTRUCTIONS TO MAINTAIN 2 HOUR RATING TO WALL
- RELOCATE FIRE DEPT VALVE FROM EXISTING LOCATION
- RELOCATE FIRE EXTINGUISHER FROM EXISTING LOCATION

Per NFPA 101: 4.6.10.1, 2000 Edition: "Buildings or portions of buildings shall be permitted to be occupied during construction, repair, alterations, or additions only if all required means of egress and all required fire protection features are in place and continuously maintained for the portion occupied."

All demolition work shall comply with the requirements of NFPA 241, 2004 Edition, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS.

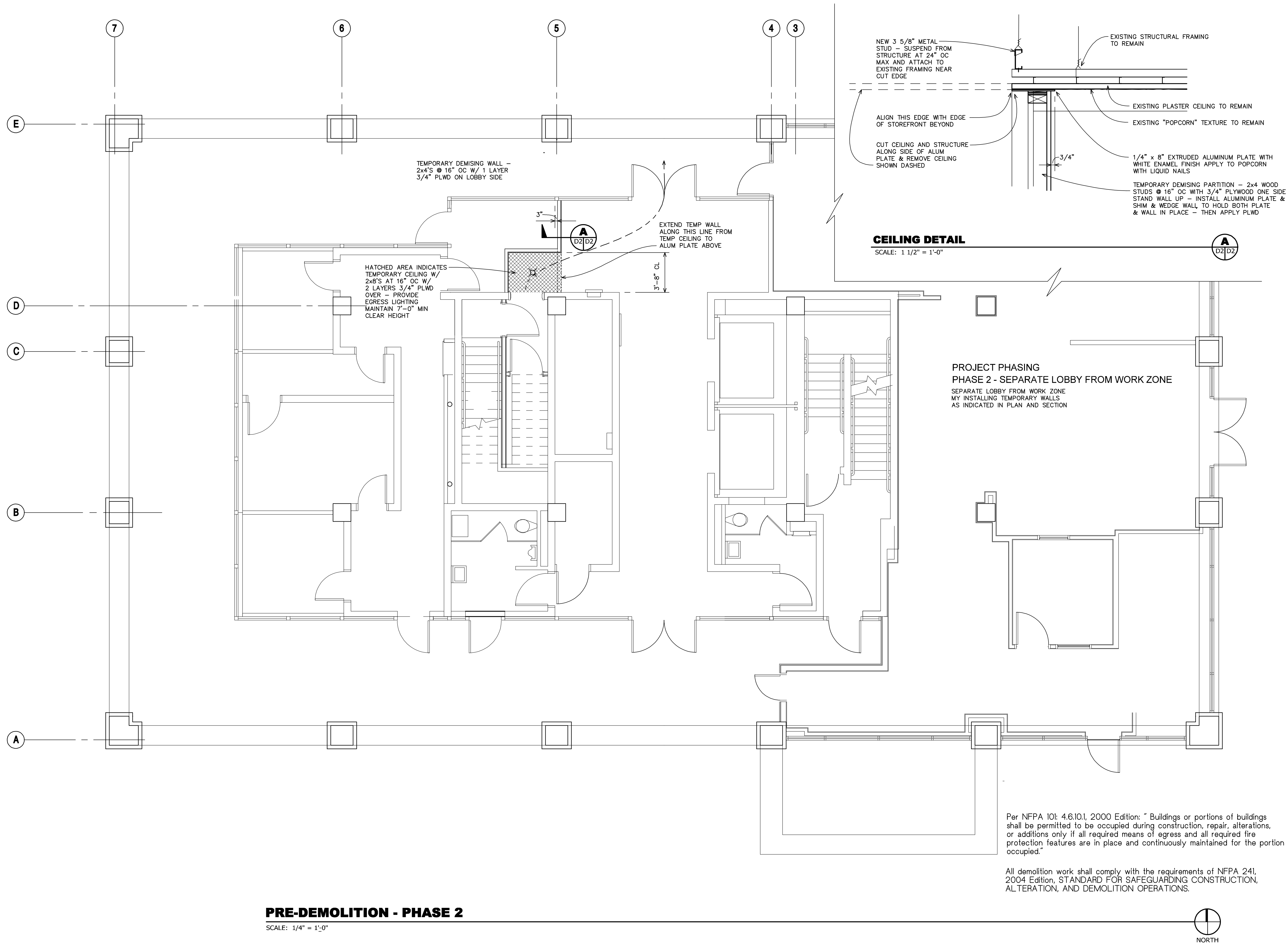


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File name:	1103_CW01.dwg
Plotted on:	4/2/2012
Drawing date:	3/20/2012
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D1
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PRE-DEMOLITION - PHASE 2

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



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 File name: 1103_CW1.dwg
 Plotted on: 4/2/2012
 Drawing date: 3/20/2012

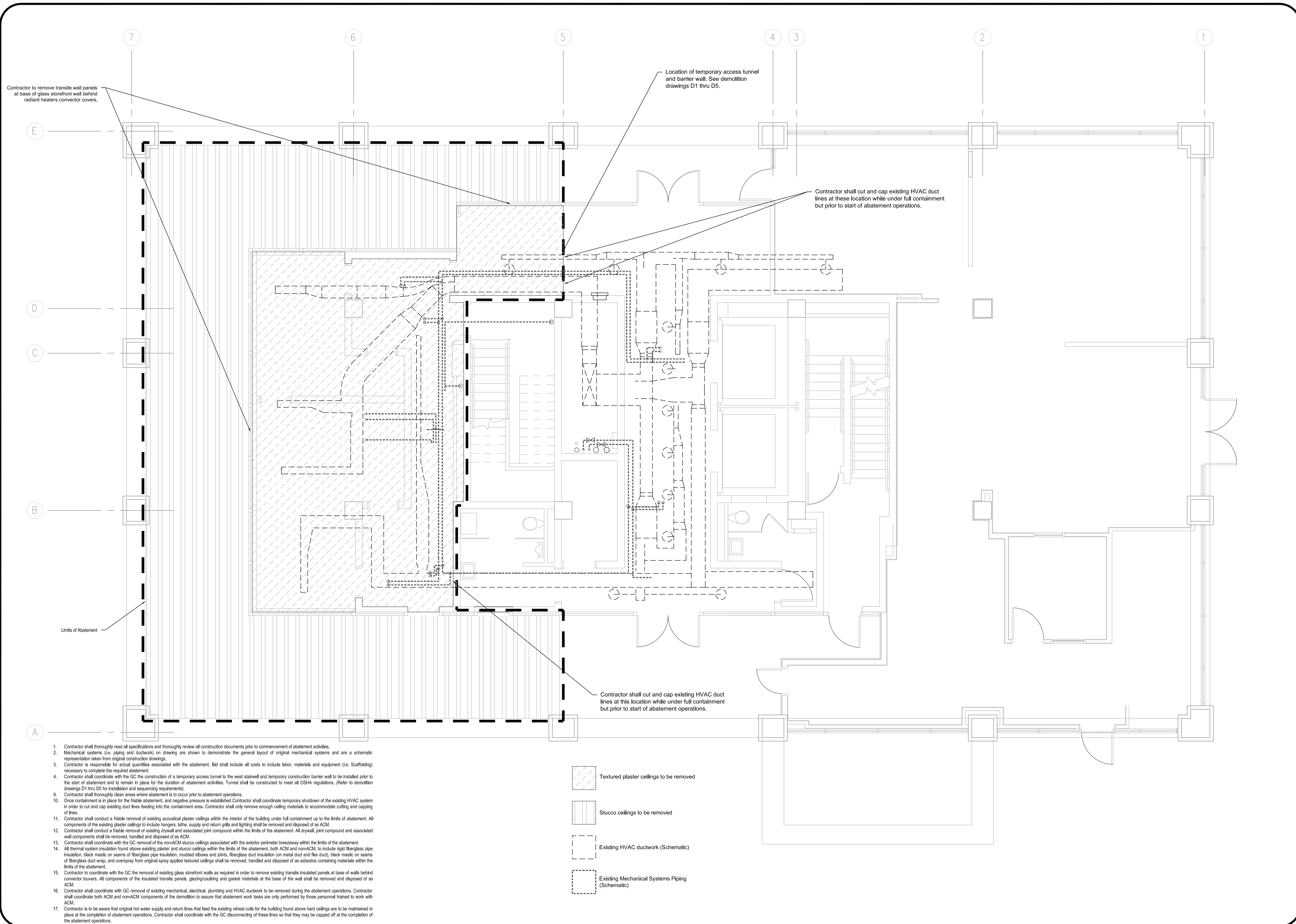
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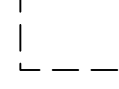

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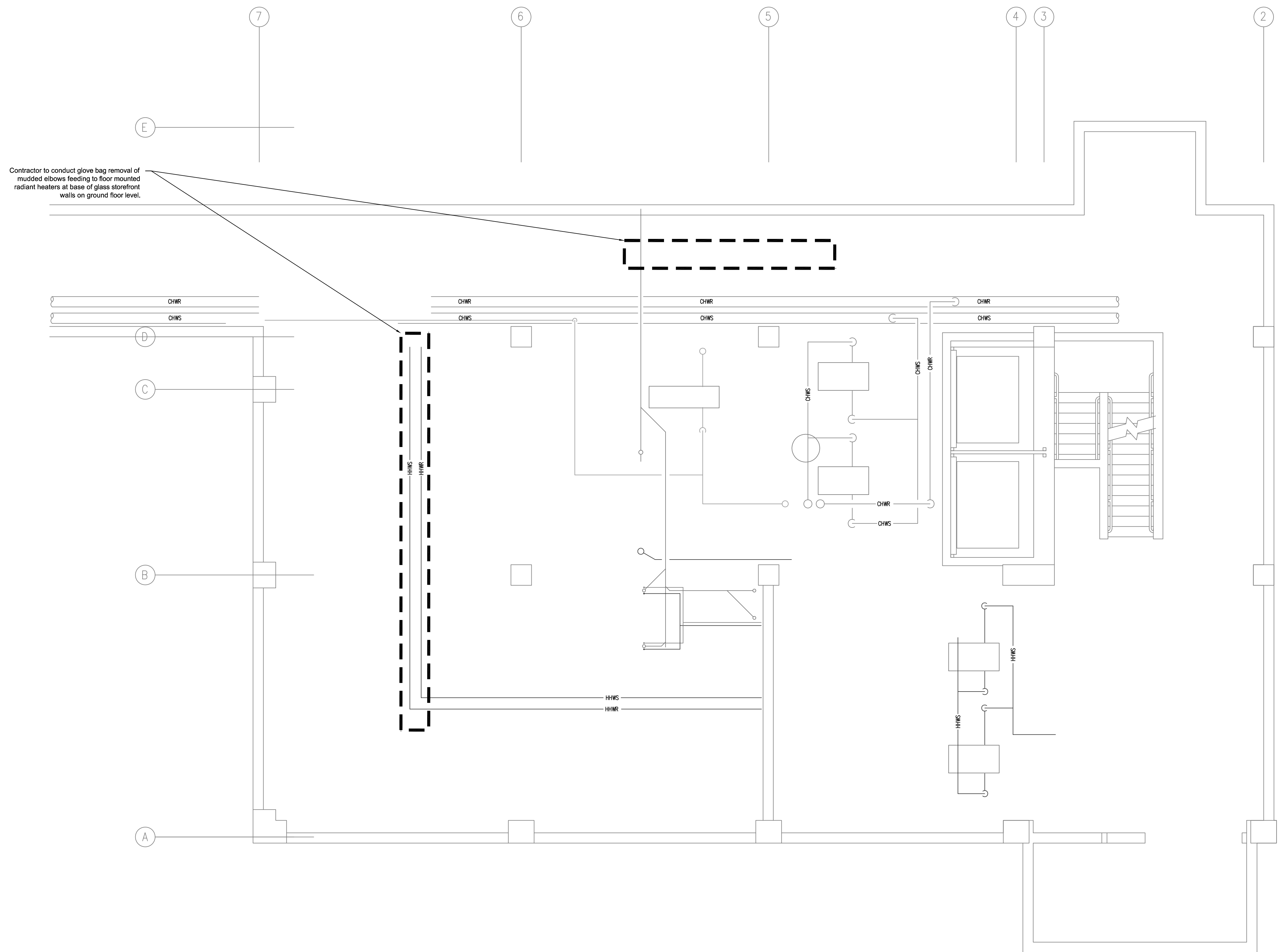
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1. Contractor shall thoroughly read all specifications and thoroughly review all construction documents prior to commencement of abatement activities.
2. Mechanical systems (i.e. piping and ductwork) on drawing are shown to demonstrate the general layout of original mechanical systems and are a schematic representation taken from original construction drawings.
3. Contractor is responsible for actual quantities associated with the abatement. Bid shall include all costs to include labor, materials and equipment (i.e. Scaffolding) necessary to complete the required abatement.
4. Contractor shall coordinate with the GC the construction of a temporary access tunnel to the west stairwell and temporary construction barrier wall to be installed prior to the start of abatement and to remain in place for the duration of abatement activities. Tunnel shall be constructed to meet all OSHA regulations. (Refer to demolition drawings D1 thru D5 for installation and sequencing requirements)
5. Contractor shall thoroughly clean areas where abatement is to occur prior to abatement operations.
6. Once containment is in place for the friable abatement, and negative pressure is established Contractor shall coordinate temporary shutdown of the existing HVAC system in order to cut and cap existing duct lines feeding into the containment area. Contractor shall only remove enough ceiling materials to accommodate cutting and capping of lines.
7. Contractor shall conduct a friable removal of existing acoustical plaster ceilings within the interior of the building under full containment up to the limits of abatement. All components of the existing plaster ceilings to include hangers, lath, supply and return grills and lighting shall be removed and disposed of as ACM.
8. Contractor shall conduct a friable removal of existing drywall and associated joint compound within the limits of the abatement. All drywall, joint compound and associated wall components shall be removed, handled and disposed of as ACM.
9. Contractor shall coordinate with the GC removal of the non-ACM stucco ceilings associated with the exterior perimeter breezeway within the limits of the abatement.
10. All thermal system insulation found above existing plaster and stucco ceilings within the limits of the abatement, both ACM and non-ACM, to include rigid fiberglass pipe insulation, black mastic on seams of fiberglass pipe insulation, mudded elbows and joints, fiberglass duct insulation (on metal duct and flex duct), black mastic on seams of fiberglass duct wrap, and overspray from original spray applied textured ceilings shall be removed, handled and disposed of as asbestos containing materials within the limits of the abatement.
11. Contractor to coordinate with the GC the removal of existing glass storefront walls as required in order to remove existing transite insulated panels at base of walls behind convactor louvers. All components of the insulated transite panels, glazing/caulking and gasket materials at the base of the wall shall be removed and disposed of as ACM.
12. Contractor shall coordinate with GC removal of existing mechanical, electrical, plumbing and HVAC ductwork to be removed during the abatement operations. Contractor shall coordinate both ACM and non-ACM components of the demolition to assure that abatement work tasks are only performed by those personnel trained to work with ACM.
13. Contractor is to be aware that original hot water supply and return lines that feed the existing reheat coils for the building found above hard ceilings are to be maintained in place at the completion of abatement operations. Contractor shall coordinate with the GC disconnecting of these lines so that they may be capped off at the completion of the abatement operations.

-  Textured plaster ceilings to be removed
-  Stucco ceilings to be removed
-  Existing HVAC ductwork (Schematic)
-  Existing Mechanical Systems Piping (Schematic)

DRWN. BY: N/A CHKD. BY: MSM APPR. BY: GME	ORIGINAL: 3/30/2012 REVISIONS: 1 _____ 2 _____ 3 _____	NOTES: _____ _____ _____	SCALE 1/4" = 1.0'
F&ME CONSULTANTS GEOTECHNICAL - ENVIRONMENTAL - MATERIALS COLUMBIA, SOUTH CAROLINA			
ASBESTOS ABATEMENT GROUND FLOOR LEVEL Welsh Humanities Building Ground Floor Renovations USC - Columbia Campus Project No: H27-1976 Columbia, South Carolina			
F&ME CONSULTANTS PROJECT NUMBER:		E5200.05A	
DRAWING NUMBER: AB1			



Contractor to conduct glove bag removal of mudded elbows feeding to floor mounted radiant heaters at base of glass storefront walls on ground floor level.

F&ME CONSULTANTS
 PROJECT NUMBER:
E5200.05A
 DRAWING NUMBER:
AB2

**ASBESTOS ABATEMENT
 BASEMENT LEVEL**
 Welsh Humanities Building
 Ground Floor Renovations
 USC - Columbia Campus
 Project No.: H27-1976
 Columbia, South Carolina

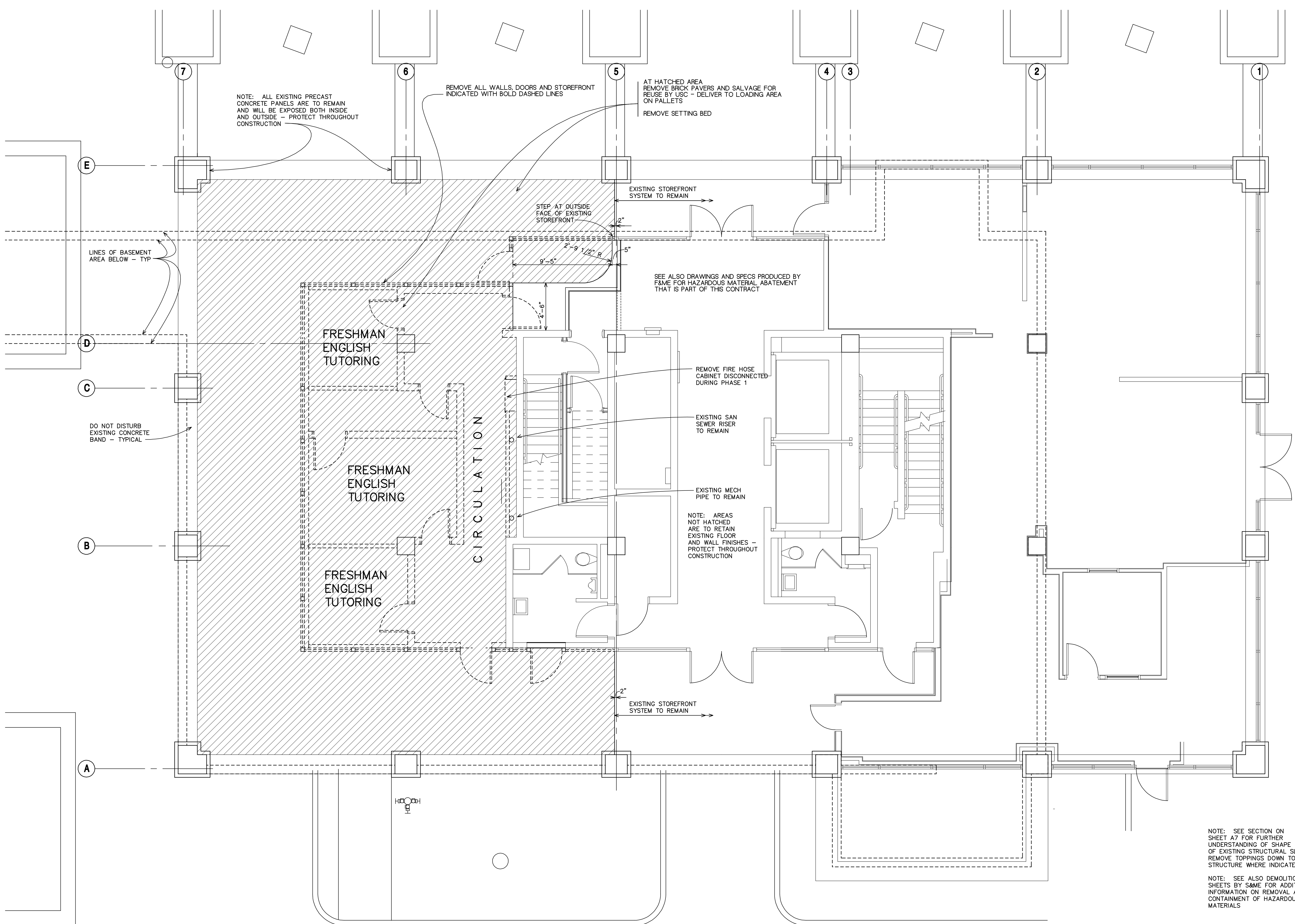
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ORIGINAL: 3/30/2012
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 1 _____
 2 _____
 3 _____
 SCALE
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DRWN. BY: N/A
 CHKD. BY: MSM
 APPR. BY: GME
 NOTES:

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NOTE: ALL EXISTING PRECAST CONCRETE PANELS ARE TO REMAIN AND WILL BE EXPOSED BOTH INSIDE AND OUTSIDE - PROTECT THROUGHOUT CONSTRUCTION

REMOVE ALL WALLS, DOORS AND STOREFRONT INDICATED WITH BOLD DASHED LINES

AT HATCHED AREA REMOVE BRICK PAVERS AND SALVAGE FOR REUSE BY USC - DELIVER TO LOADING AREA ON PALLETS REMOVE SETTING BED

EXISTING STOREFRONT SYSTEM TO REMAIN

STEP AT OUTSIDE FACE OF EXISTING STOREFRONT

SEE ALSO DRAWINGS AND SPECS PRODUCED BY F&M FOR HAZARDOUS MATERIAL ABATEMENT THAT IS PART OF THIS CONTRACT

REMOVE FIRE HOSE CABINET DISCONNECTED DURING PHASE 1

EXISTING SAN SEWER RISER TO REMAIN

EXISTING MECH PIPE TO REMAIN

NOTE: AREAS NOT HATCHED ARE TO RETAIN EXISTING FLOOR AND WALL FINISHES - PROTECT THROUGHOUT CONSTRUCTION

EXISTING STOREFRONT SYSTEM TO REMAIN

LINES OF BASEMENT AREA BELOW - TYP

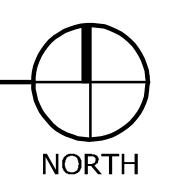
DO NOT DISTURB EXISTING CONCRETE BAND - TYPICAL

NOTE: SEE SECTION ON SHEET A7 FOR FURTHER UNDERSTANDING OF SHAPE OF EXISTING STRUCTURAL SLAB - REMOVE TOPPING DOWN TO STRUCTURE WHERE INDICATED

NOTE: SEE ALSO DEMOLITION SHEETS BY SAME FOR ADDITIONAL INFORMATION ON REMOVAL AND CONTAINMENT OF HAZARDOUS MATERIALS

DEMOLITION PLAN

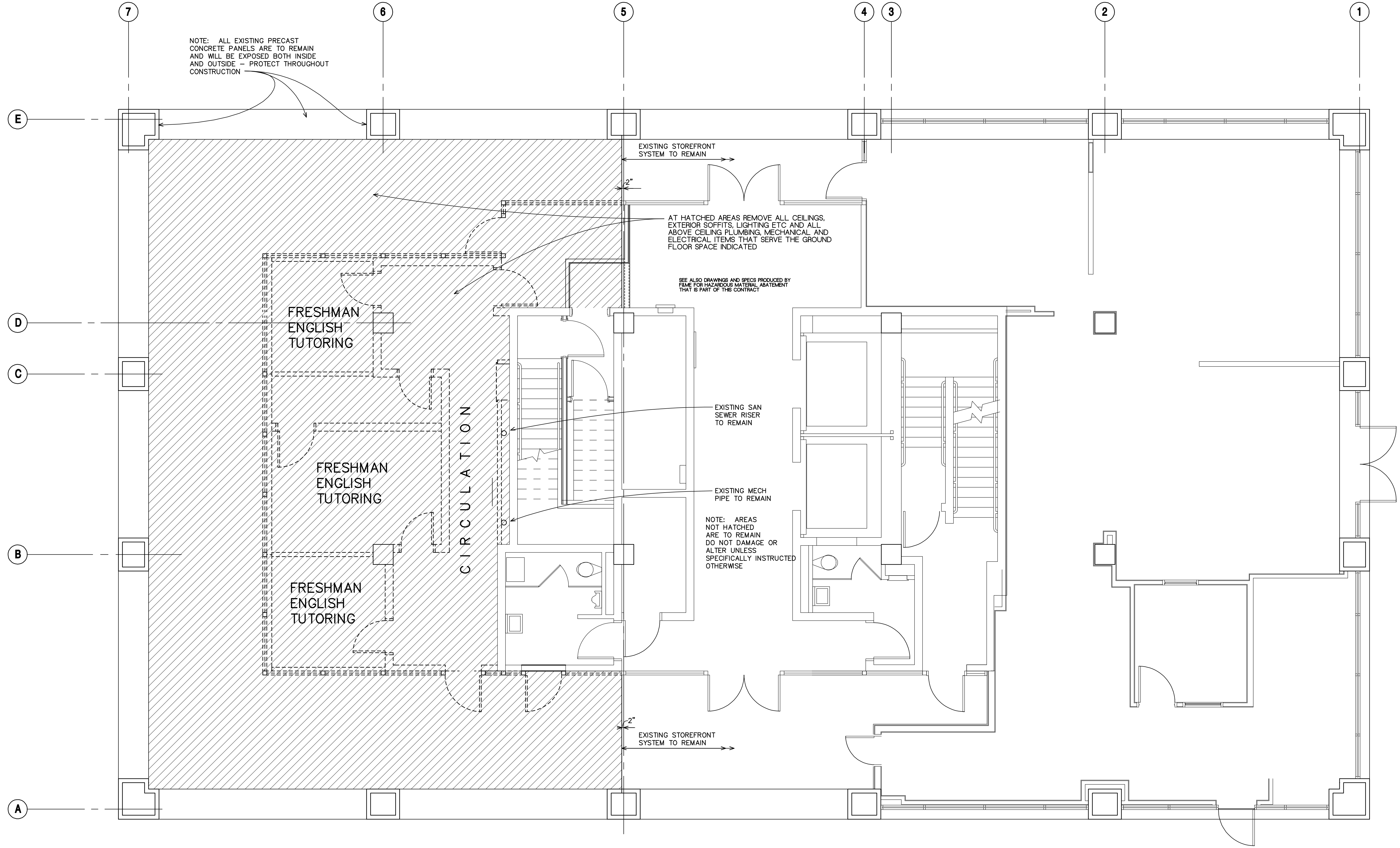
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File name: 11025.dwg
Plotted on: 4/19/2012
Drawing date: 3/20/2012
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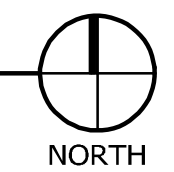
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DEMOLITION REFLECTED CEILING PLAN

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



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File name	1103_CW 01.dwg
Plotted on	4/2/2012
Drawing date	3/20/2012
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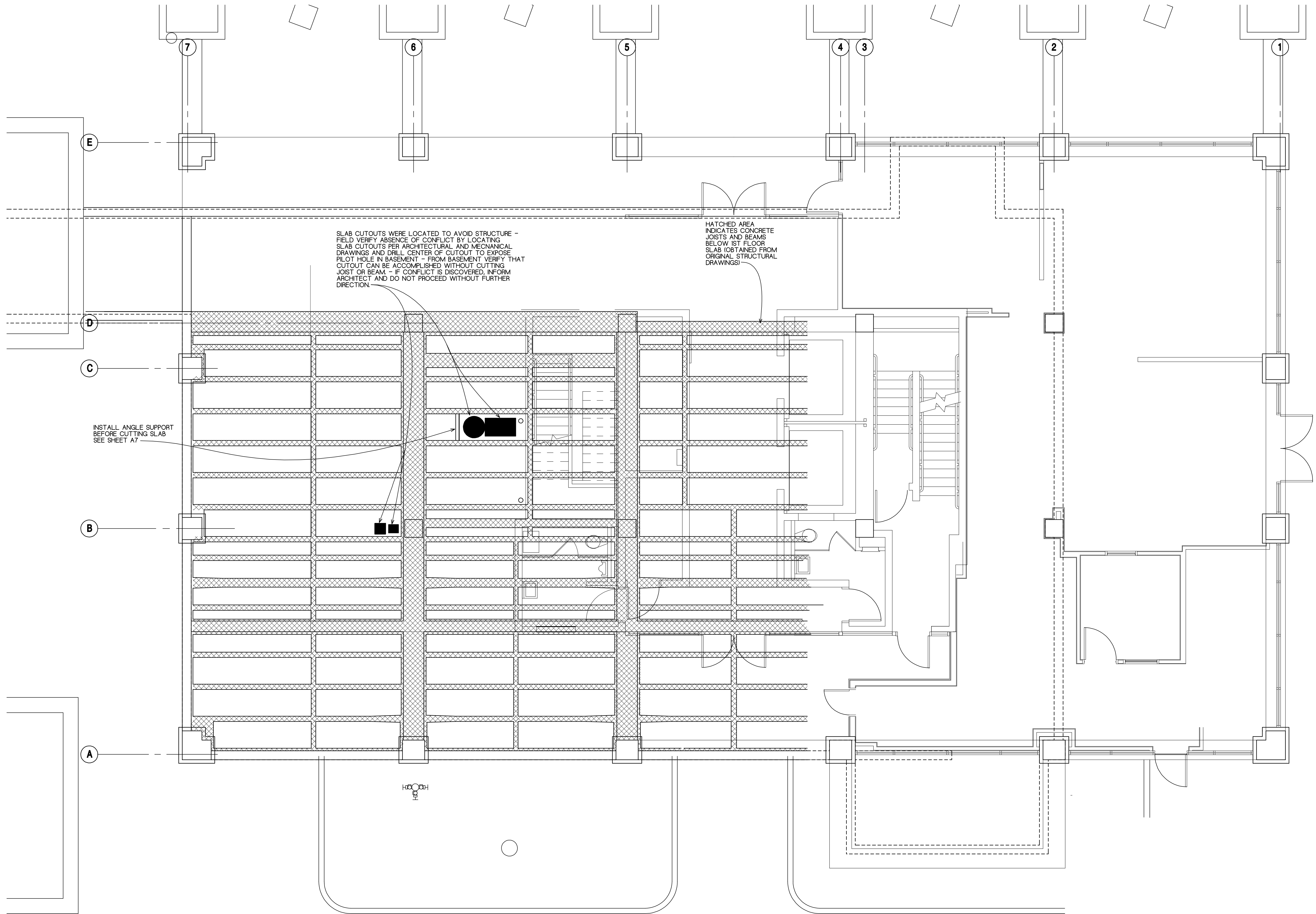
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Sheet	D4
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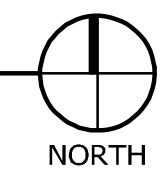
SLAB CUTOUTS WERE LOCATED TO AVOID STRUCTURE - FIELD VERIFY ABSENCE OF CONFLICT BY LOCATING SLAB CUTOUTS PER ARCHITECTURAL AND MECHANICAL DRAWINGS AND DRILL CENTER OF CUTOUT TO EXPOSE THAT PILOT HOLE IN BASEMENT - FROM BASEMENT VERIFY THAT CUTOUT CAN BE ACCOMPLISHED WITHOUT CUTTING JOIST OR BEAM - IF CONFLICT IS DISCOVERED, INFORM ARCHITECT AND DO NOT PROCEED WITHOUT FURTHER DIRECTION.

HATCHED AREA INDICATES CONCRETE JOISTS AND BEAMS BELOW 1ST FLOOR SLAB (OBTAINED FROM ORIGINAL STRUCTURAL DRAWINGS)

INSTALL ANGLE SUPPORT BEFORE CUTTING SLAB SEE SHEET A7

GROUND FLOOR SLAB CUTOUTS

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



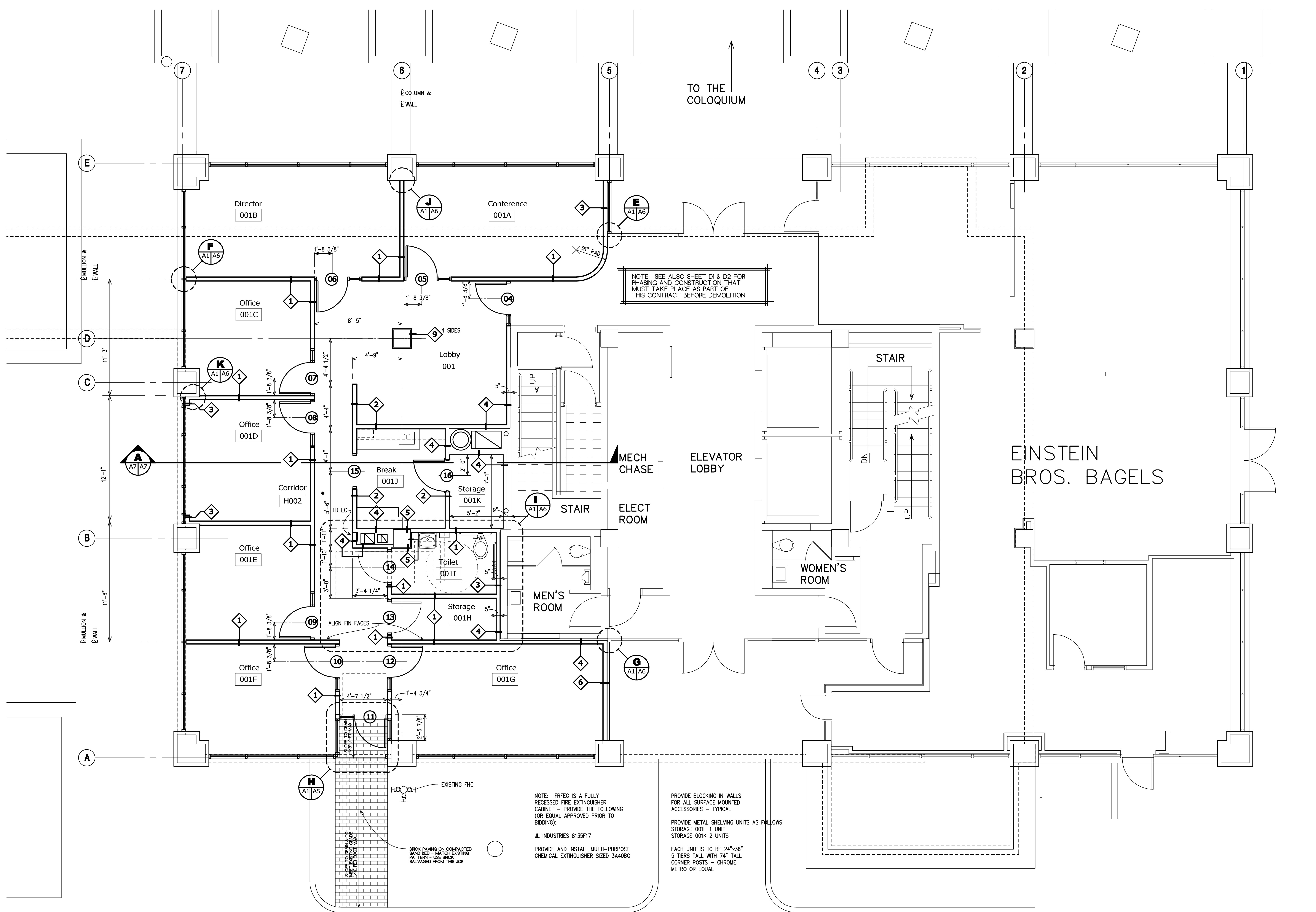
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File name	H03\DWG\1.dwg
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Drawing date	3/20/2012

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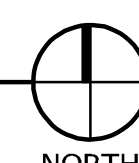
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FLOOR PLAN - SCHEME 10

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



Job Number: 1025
 Drawn by: JF
 File name: 1025_CWP01.dwg
 Plotted on: 4/16/2012
 Drawing date: 3/20/2012

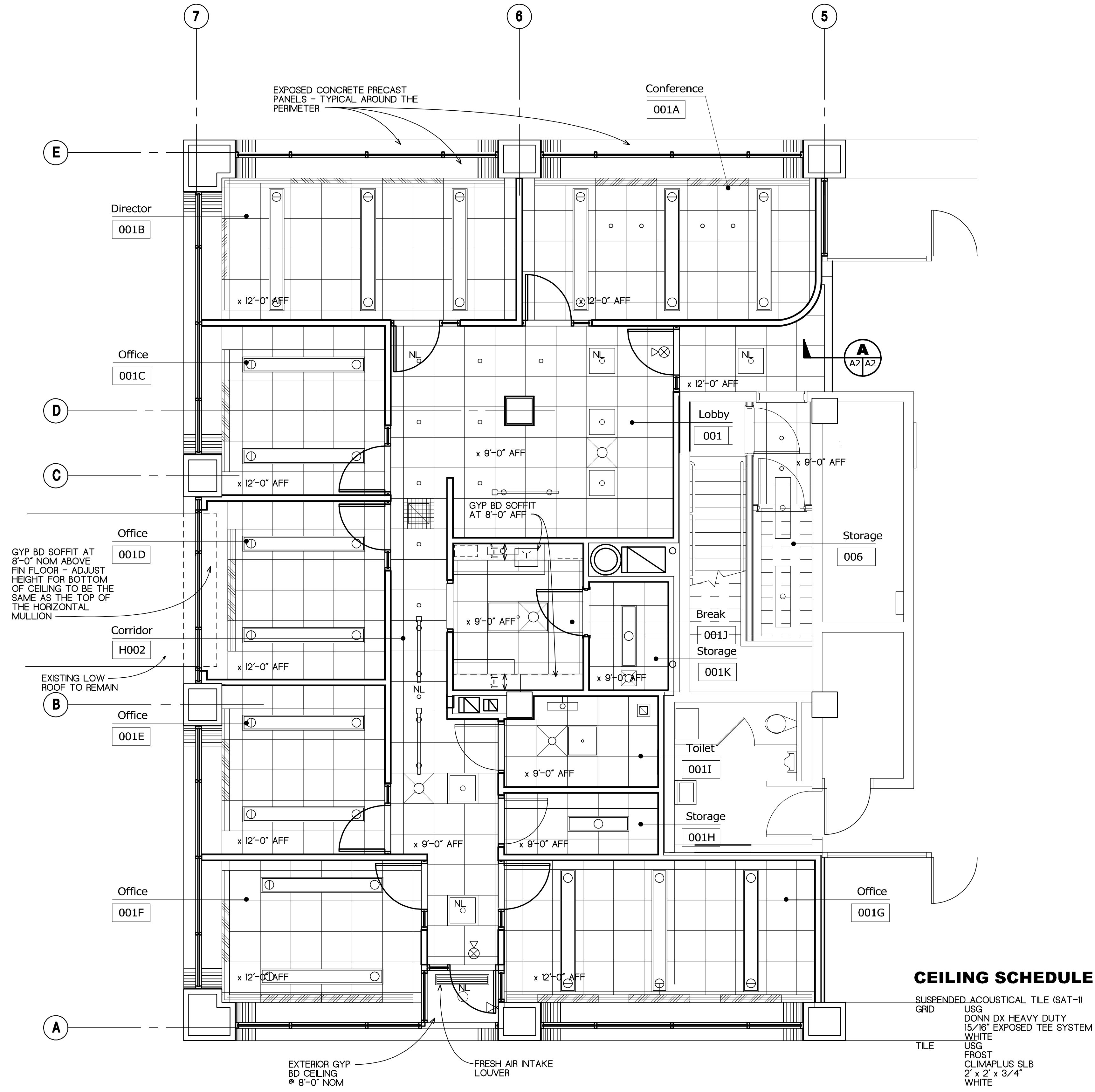
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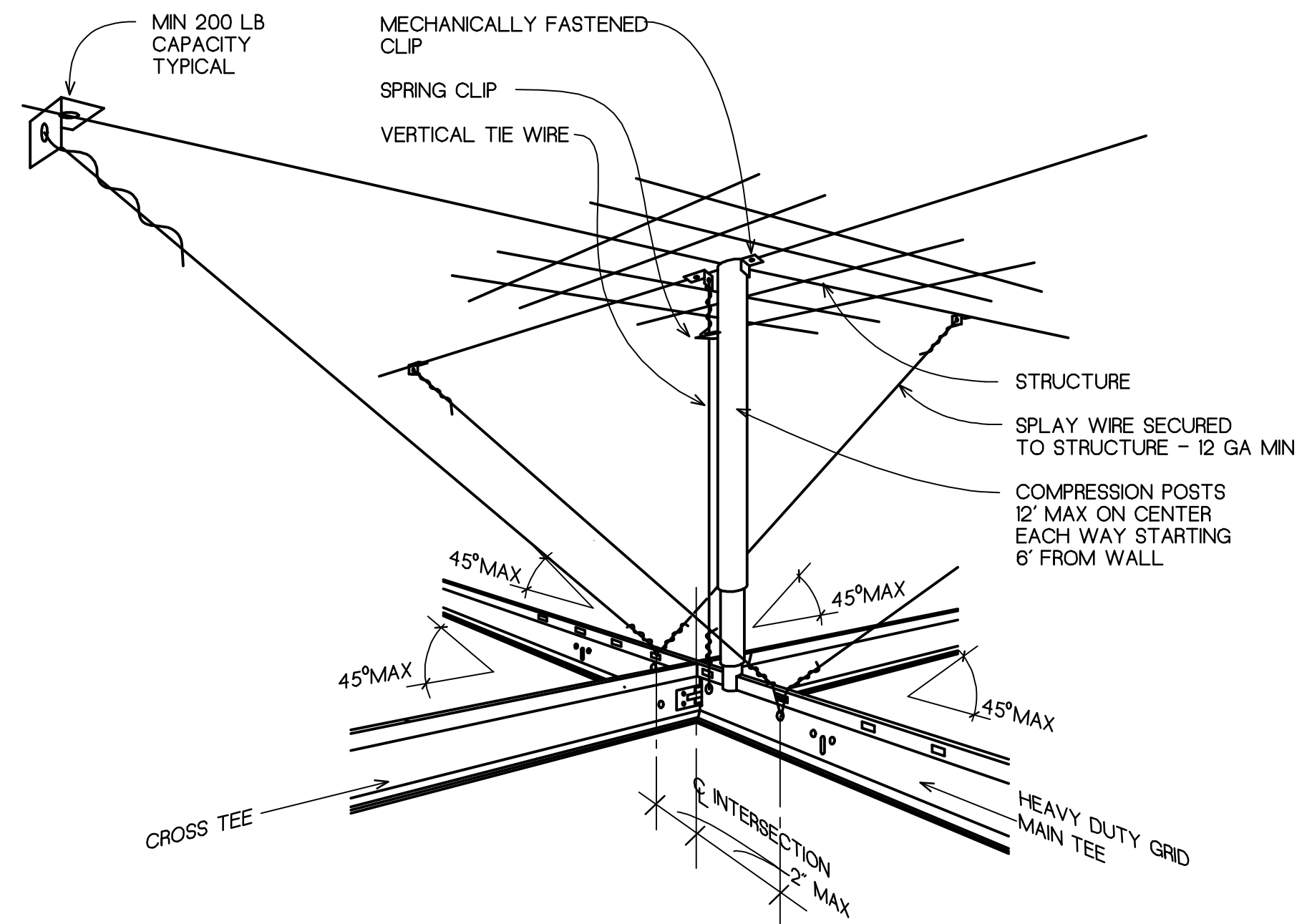
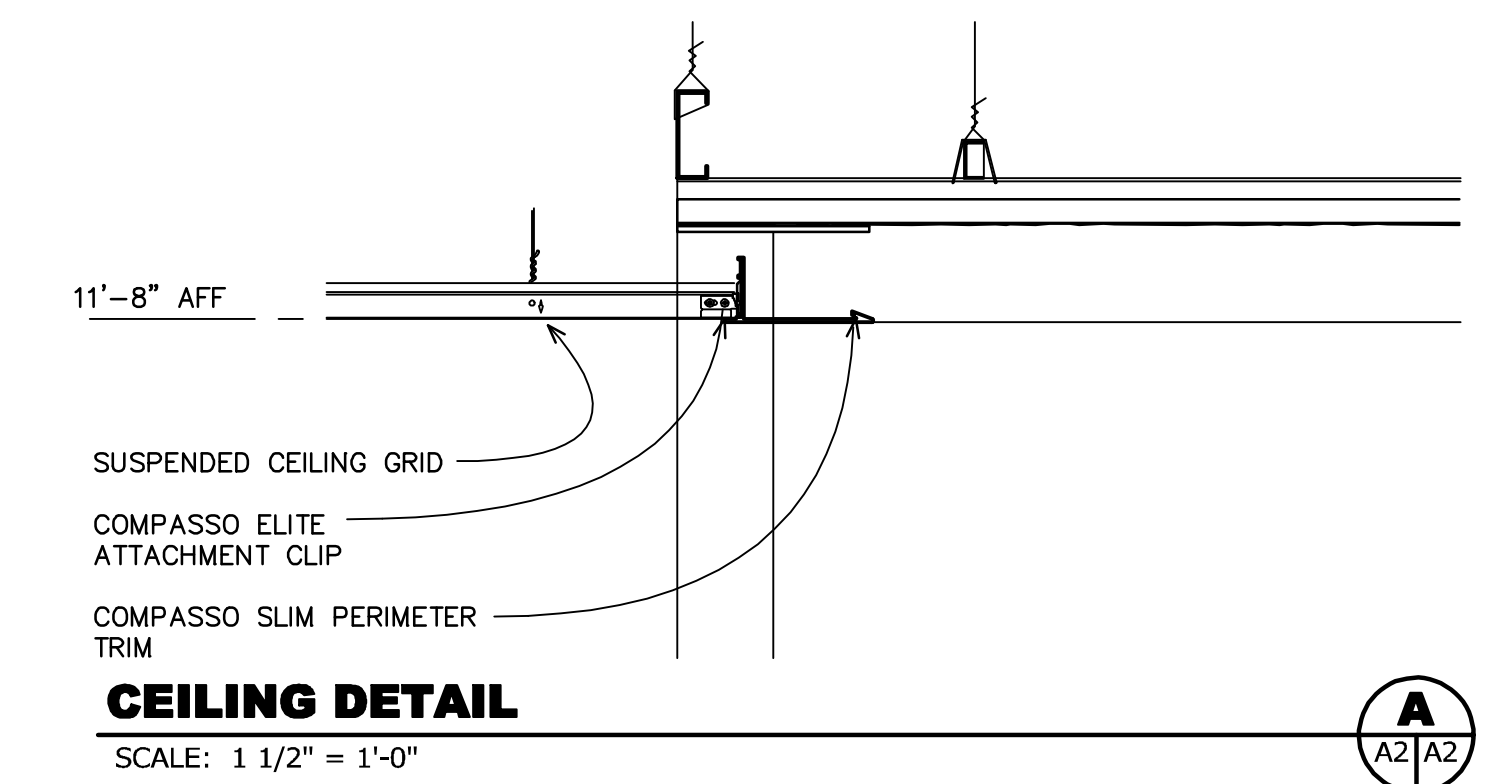
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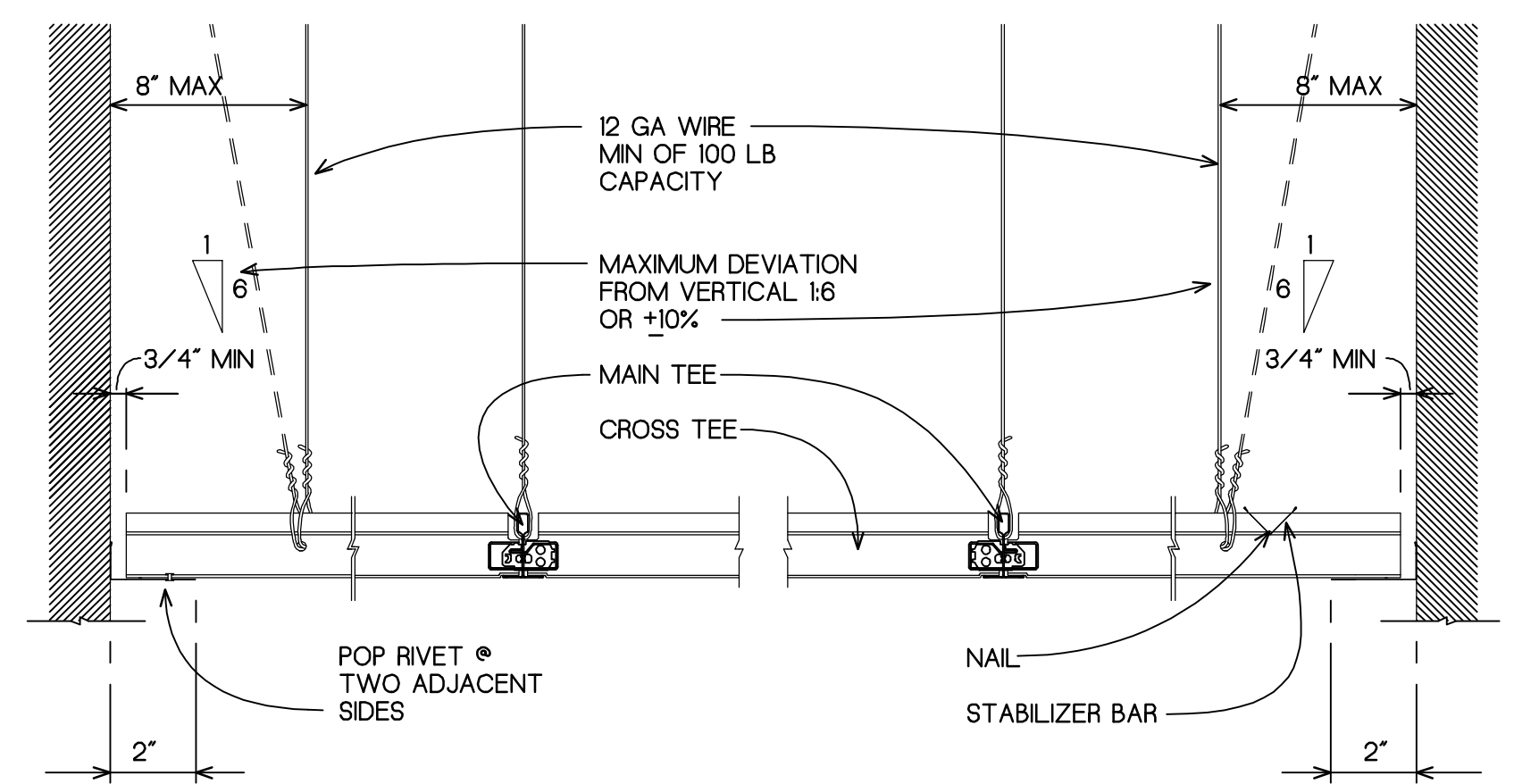
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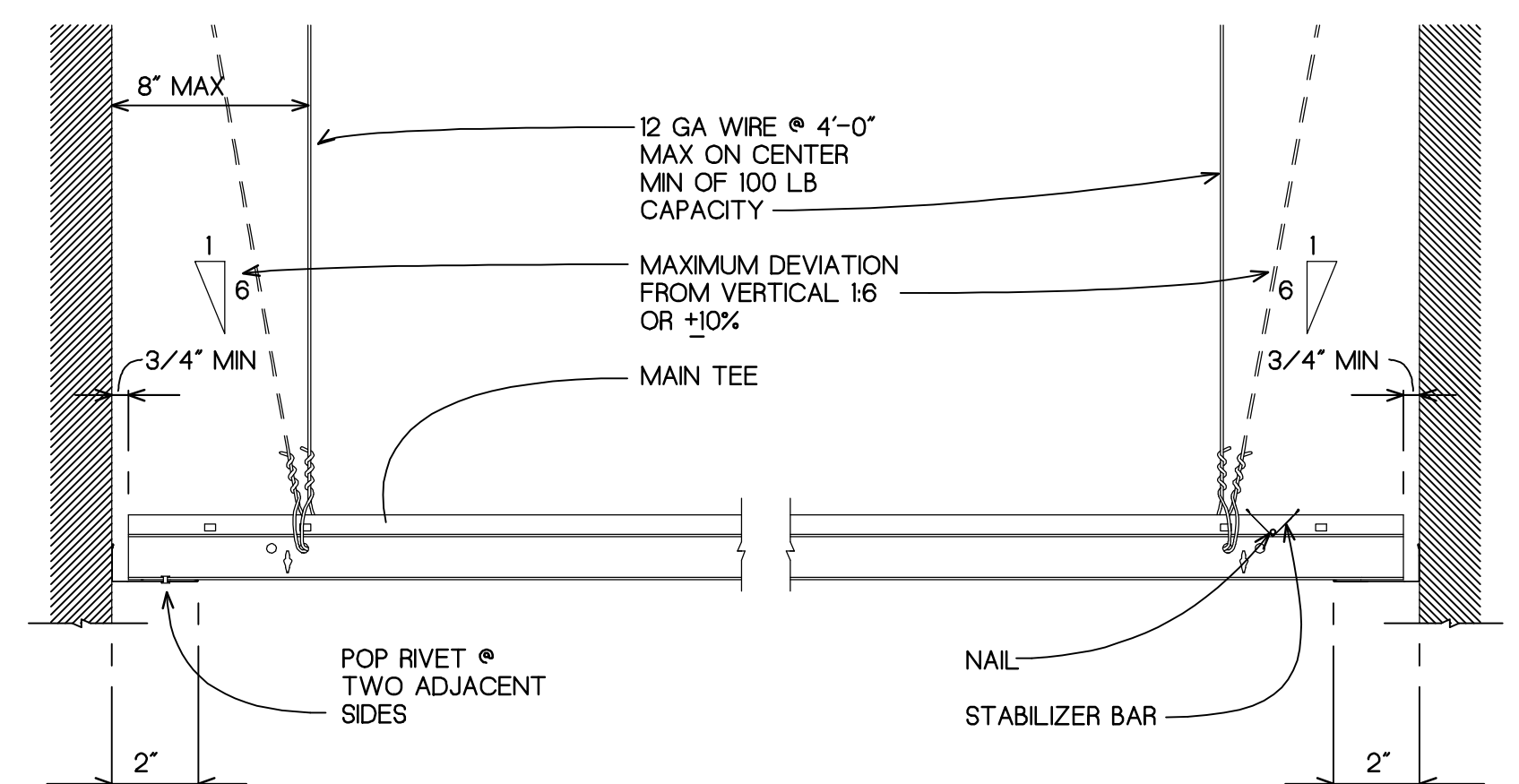
REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



SEISMIC COMPRESSION POST & SPLAY WIRES



CROSS TEE PERIMETER CONDITIONS



MAIN TEE PERIMETER CONDITIONS

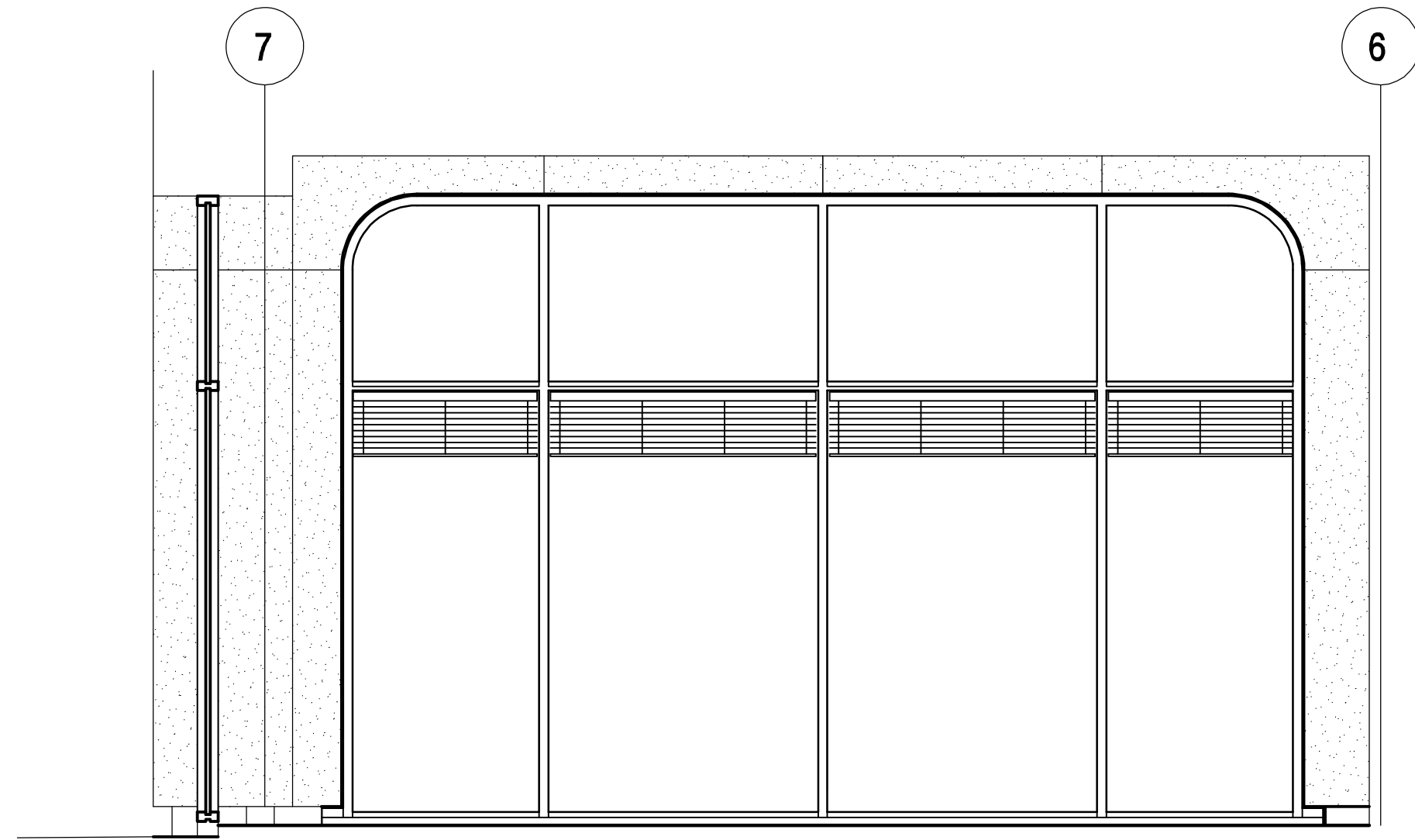
ACOUSTICAL TILE CEILING SEISMIC DETAILS

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 File name: 1103_CW01.dwg
 Date: 4/2/2012
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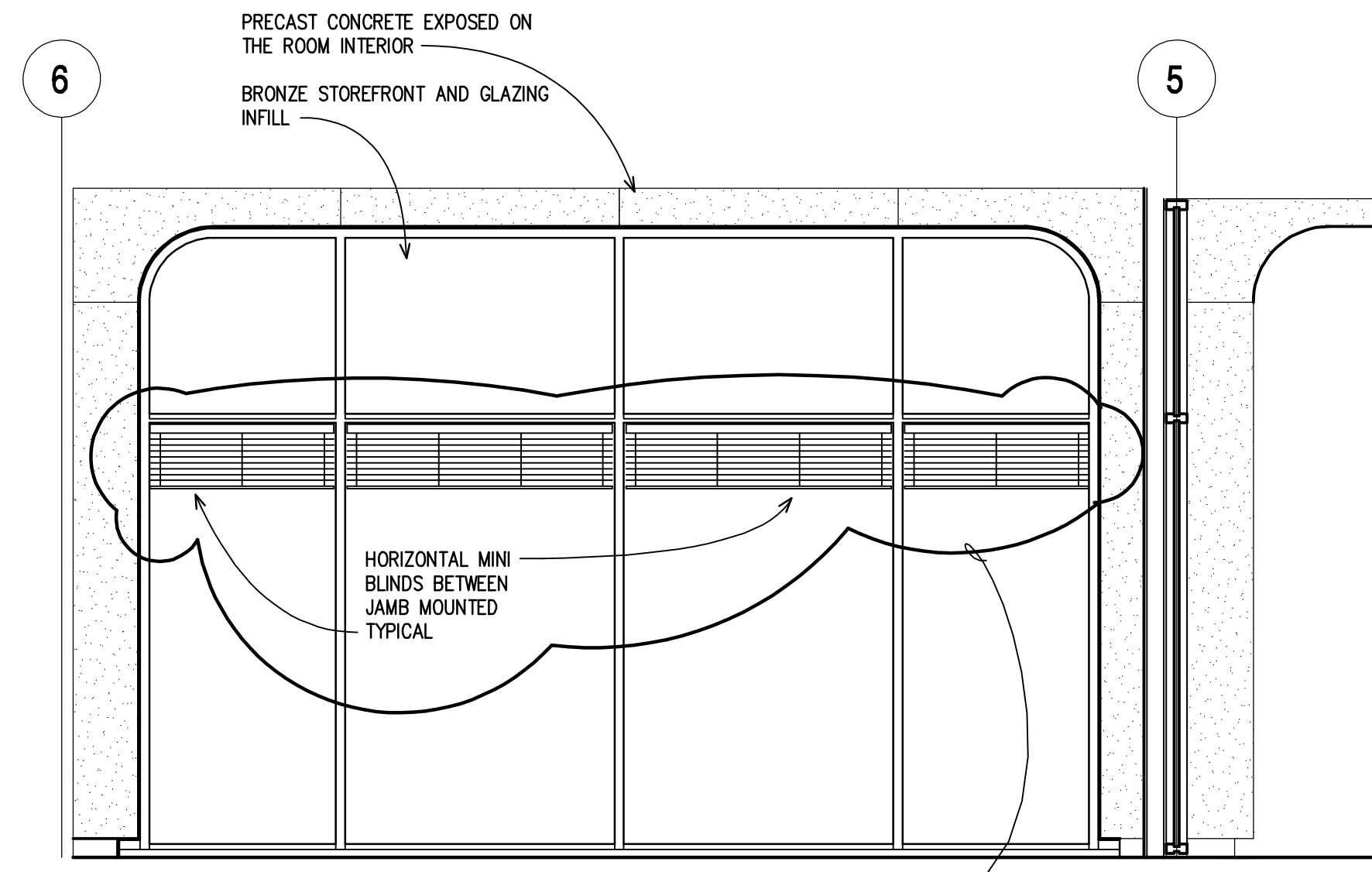
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INTERIOR ELEVATION

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

B1
A3/A3



INTERIOR ELEVATION

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

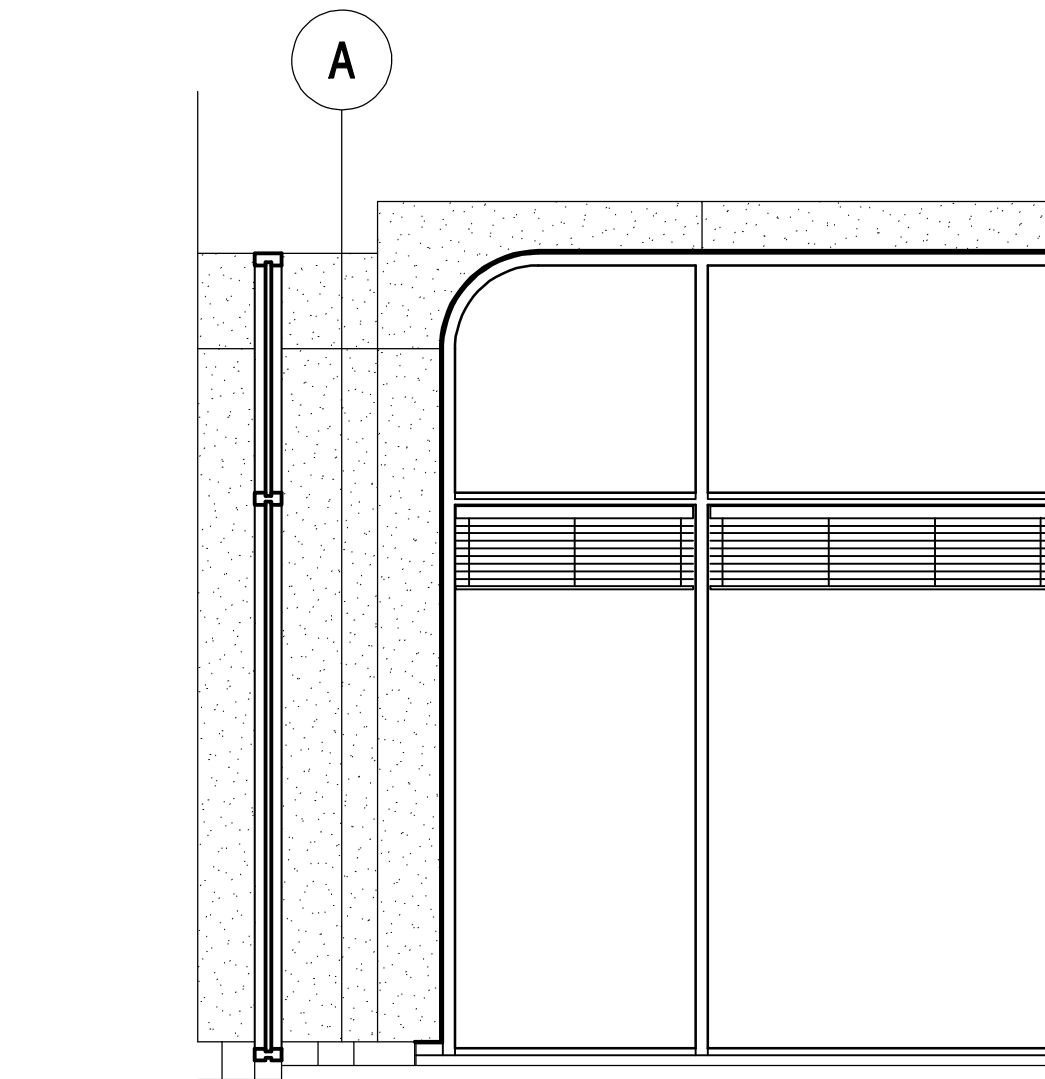
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A3/A3

ADD ALTERNATE No 1: PROVIDE AND INSTALL HORIZONTAL BLINDS IDENTIFIED IN CLOUD ABOVE & HORIZONTAL BLINDS DEPICTED IN ELEVATIONS B1, B2, C, D, E, F1, F2 AND G ON THIS SHEET

ROOM FINISH SCHEDULE

No	Space	FLOOR	BASE	WALLS	CEILING	NOTES
001	LOBBY	NONE	6" VINYL	P1	SAT-1	9'-0"
001A	CONFERENCE	NONE	6" VINYL	P1	SAT-1	12'-0" SEE A / A3 / A3 FOR NORTH WALL
001B	DIRECTOR	NONE	6" VINYL	P1	SAT-1	12'-0" SEE B1 / A3 / A3 FOR NORTH WALL SEE B2 / A3 / A3 FOR WEST WALL
001C	OFFICE	NONE	6" VINYL	P1	SAT-1	12'-0" SEE C / A3 / A3 FOR WEST WALL
001D	OFFICE	NONE	6" VINYL	P1	SAT-1	12'-0" SEE D / A3 / A3 FOR WEST WALL
001E	OFFICE	NONE	6" VINYL	P1	SAT-1	12'-0" SEE E / A3 / A3 FOR WEST WALL
001F	OFFICE	NONE	6" VINYL	P1	SAT-1	12'-0" SEE F1 / A3 / A3 FOR WEST WALL SEE F2 / A3 / A3 FOR SOUTH WALL
001G	OFFICE	NONE	6" VINYL	P1	SAT-1	12'-0" SEE G / A3 / A3 FOR SOUTH WALL
001H	STORAGE	NONE	6" VINYL	P1	SAT-1	9'-0"
001I	TOILET	CT1	CT2	P2 & CT2	SAT-1	9'-0" SEE ALSO SHEET A6
001J	BREAK	NONE	6" VINYL	P1	SAT-1	9'-0" SEE I1 / A3 / A3 FOR NORTH WALL SEE I2 / A3 / A3 FOR SOUTH WALL
001K	STORAGE	NONE	6" VINYL	P1	SAT-1	9'-0"
H002	CORRIDOR	NONE	6" VINYL	P1	SAT-1	9'-0" SEE 2 / A3 / A3 FOR SOUTH WALL
006	STORAGE	NONE	6" VINYL	P1	NONE	VARES

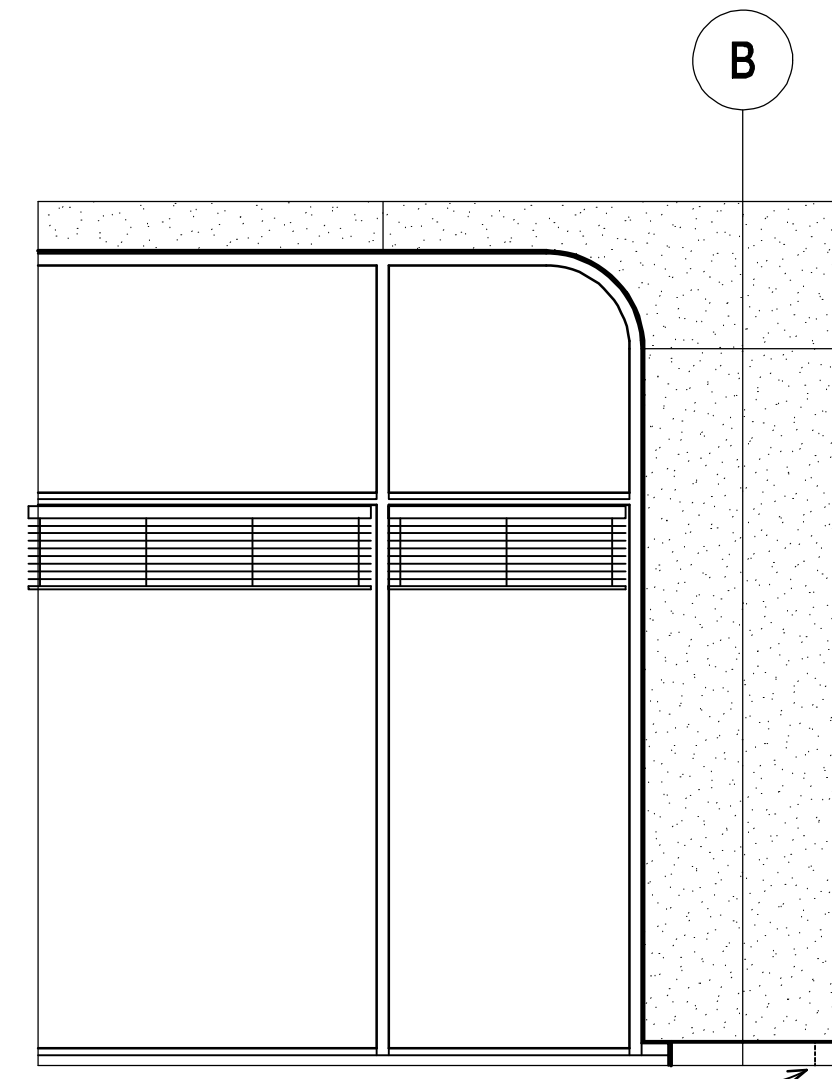
ABBREVIATIONS: WR - WATER RESISTANT
SAT - SUSPENDED ACOUSTICAL TILE



INT ELEV

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

F1
A3/A3

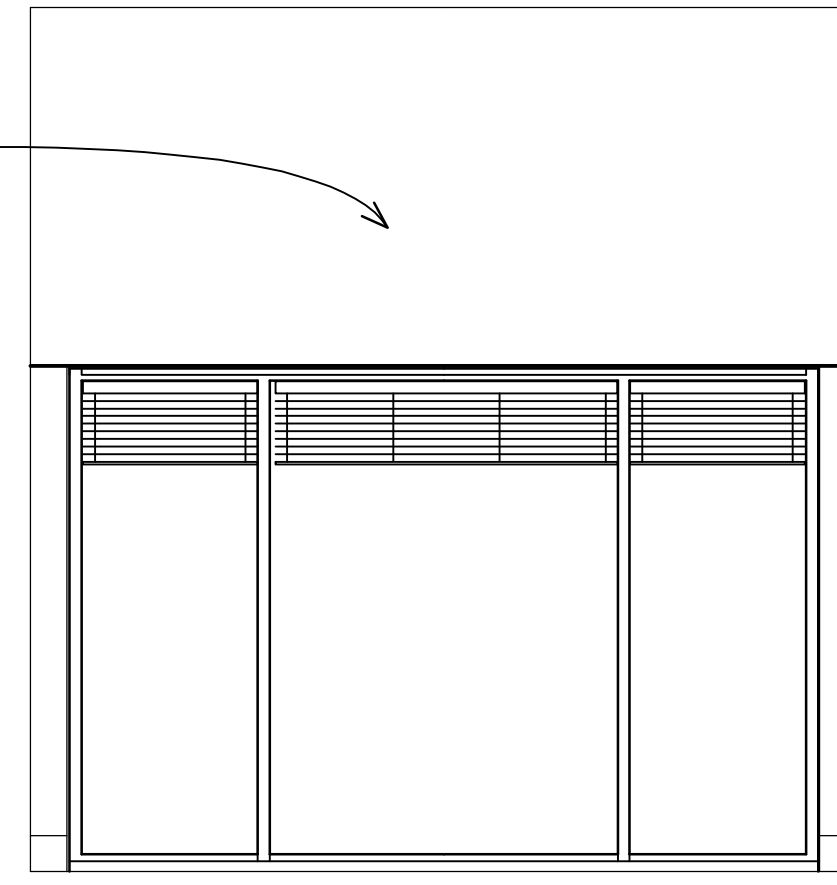


INT ELEV

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

E
A3/A3

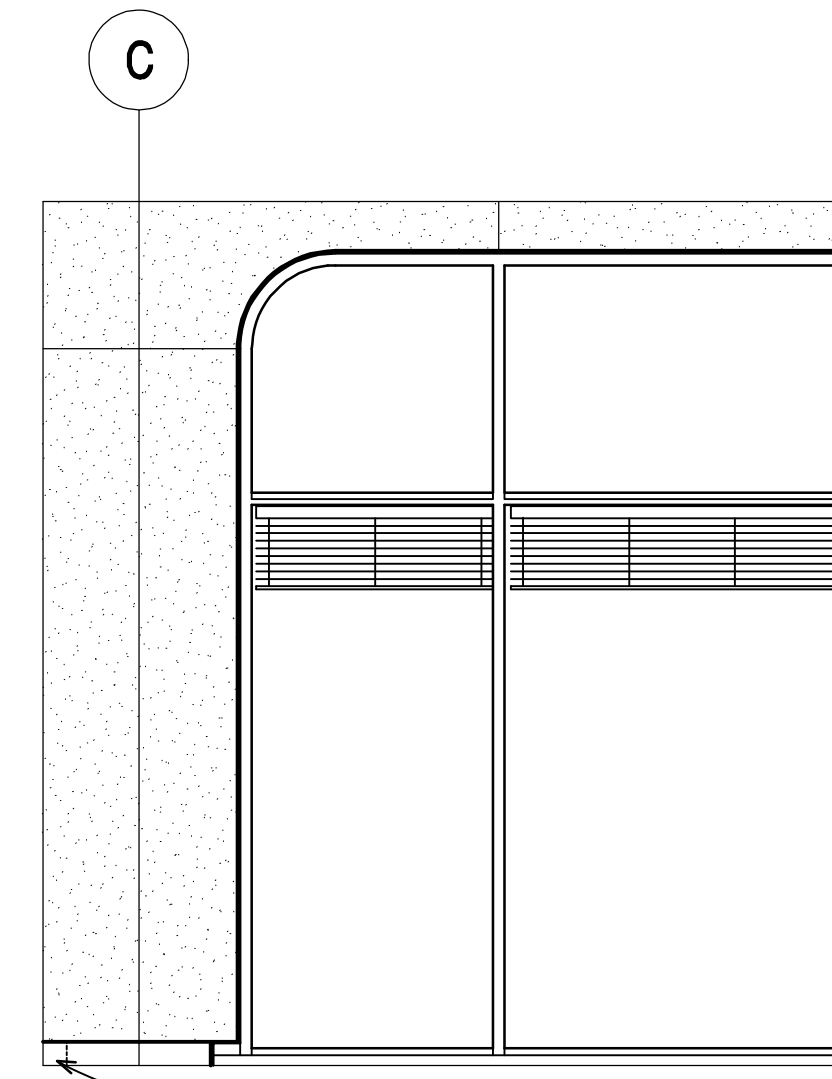
GYP BD PAINTED



INT ELEV

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

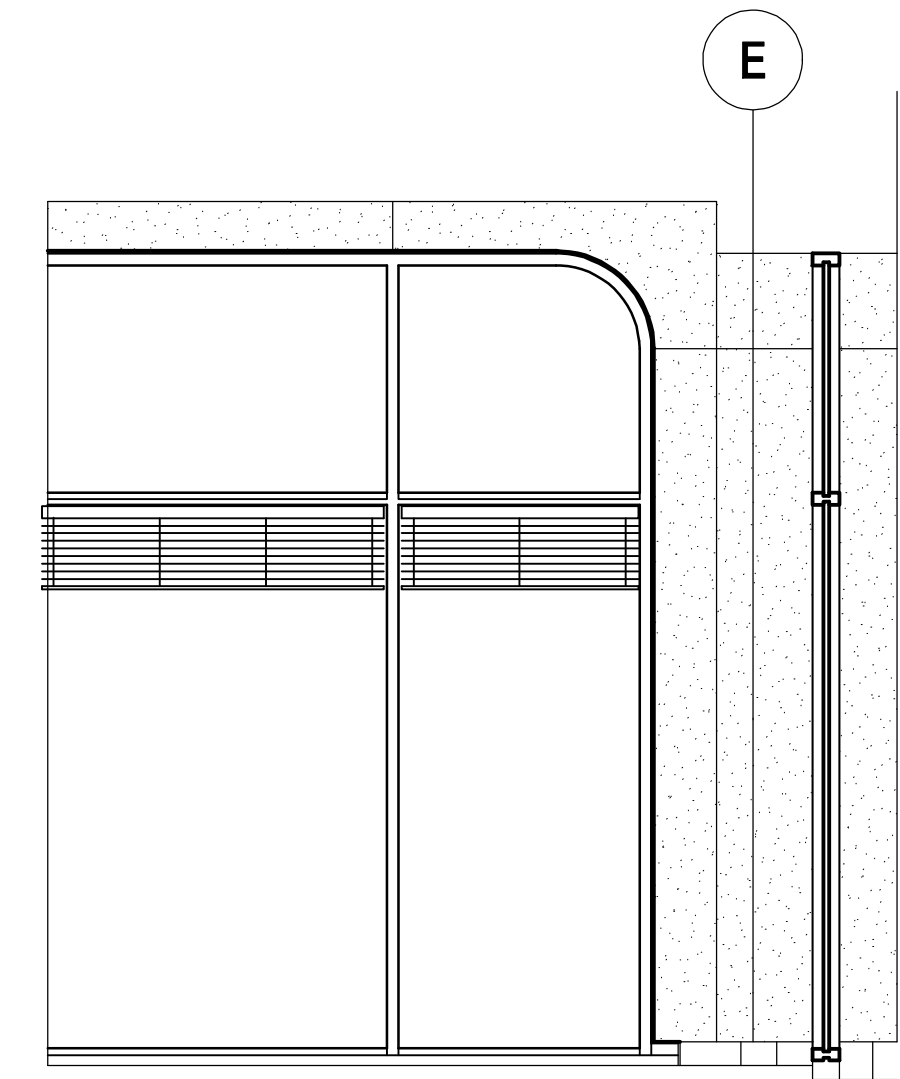
D
A3/A3



INT ELEV

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

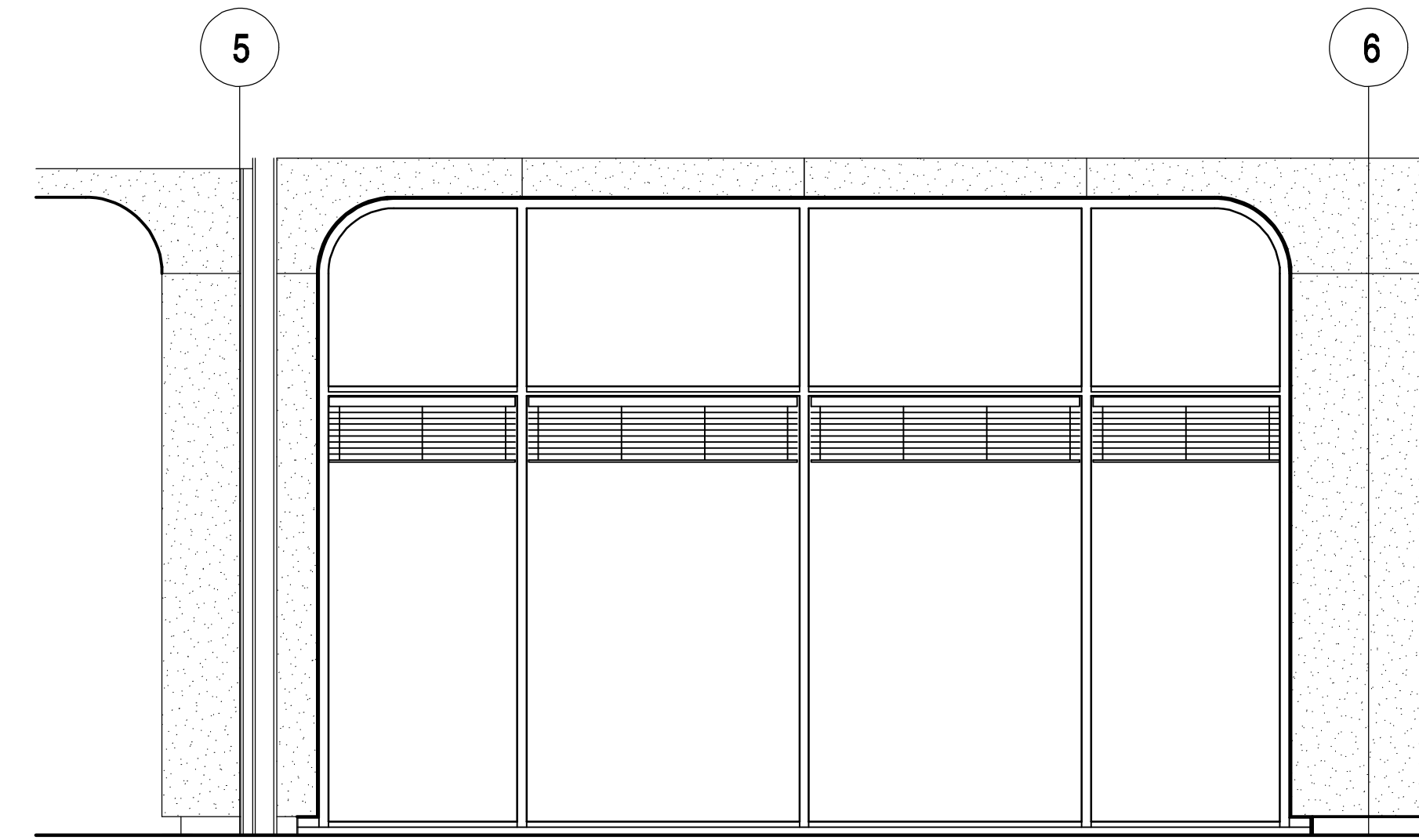
C
A3/A3



INT ELEV

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

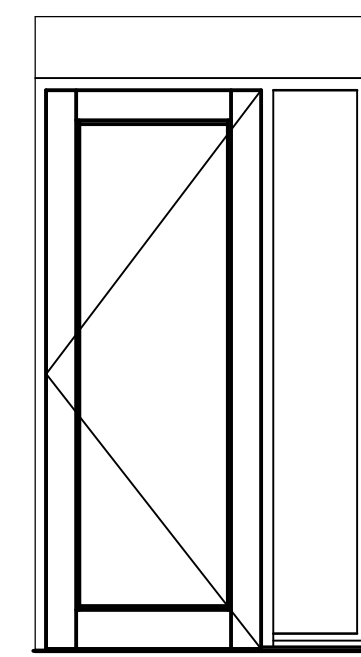
B2
A3/A3



INTERIOR ELEVATION

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

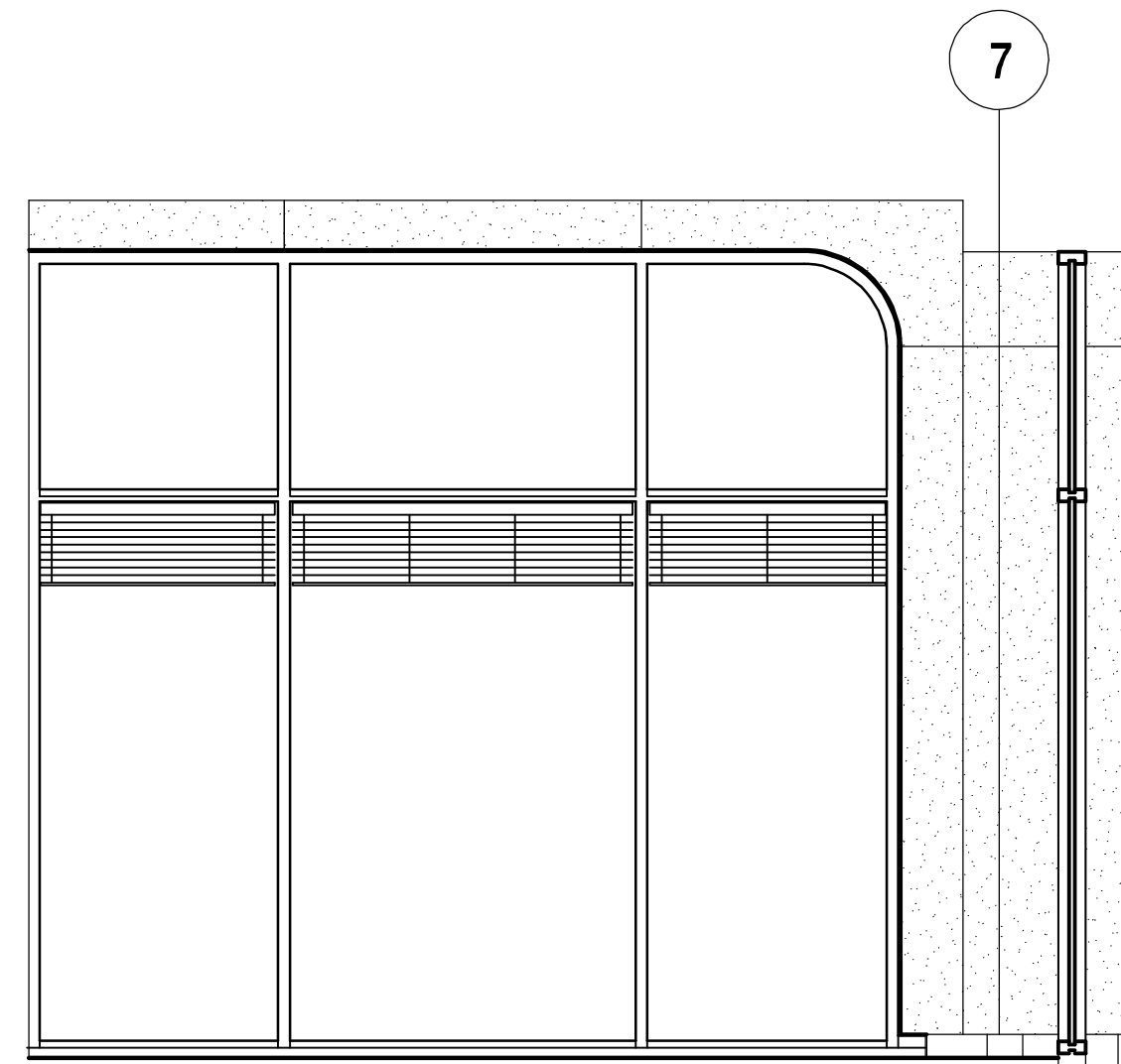
G
A3/A3



INT ELEV 2

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

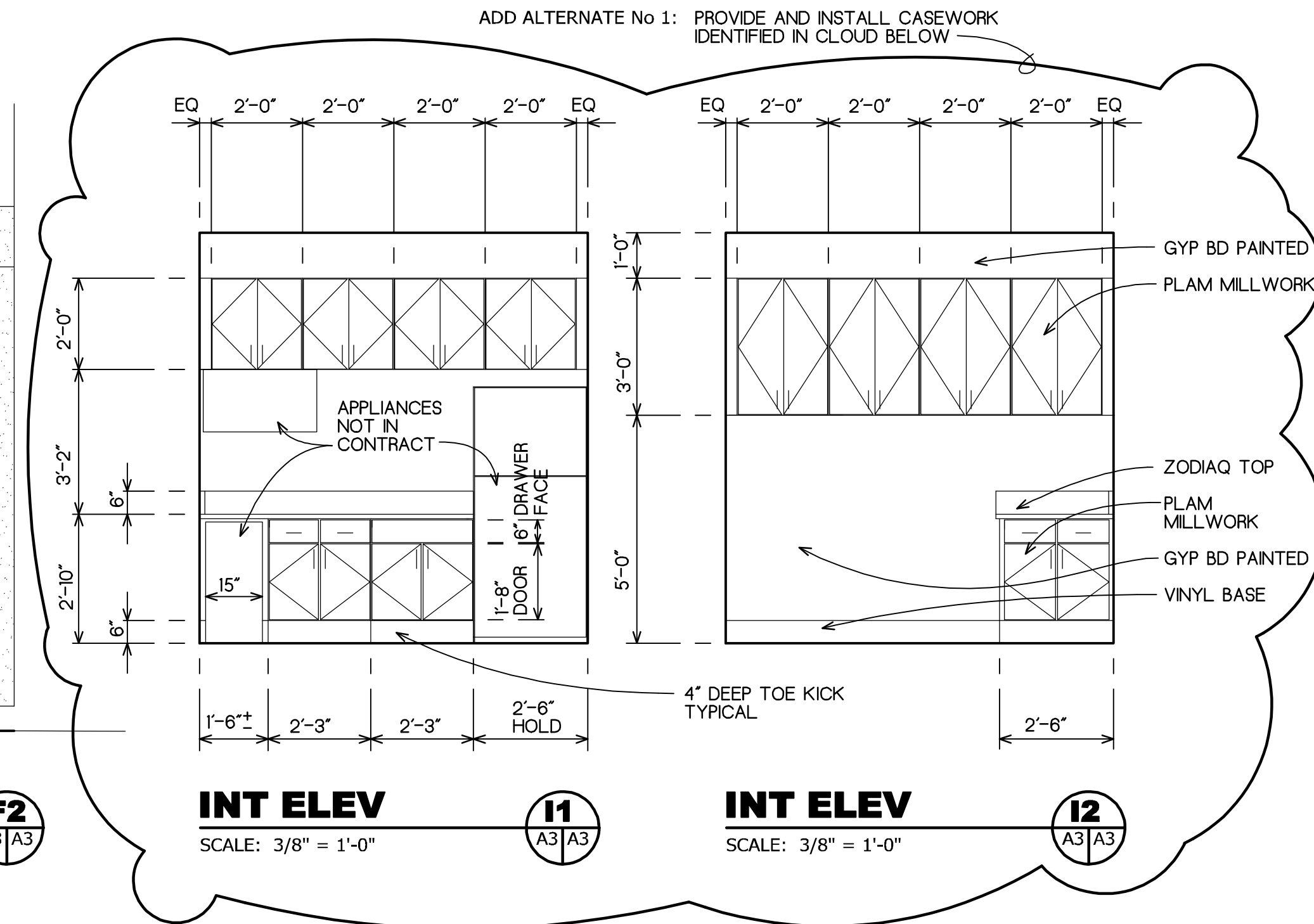
A3/A3



INTERIOR ELEVATION

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

F2
A3/A3



INT ELEV 11

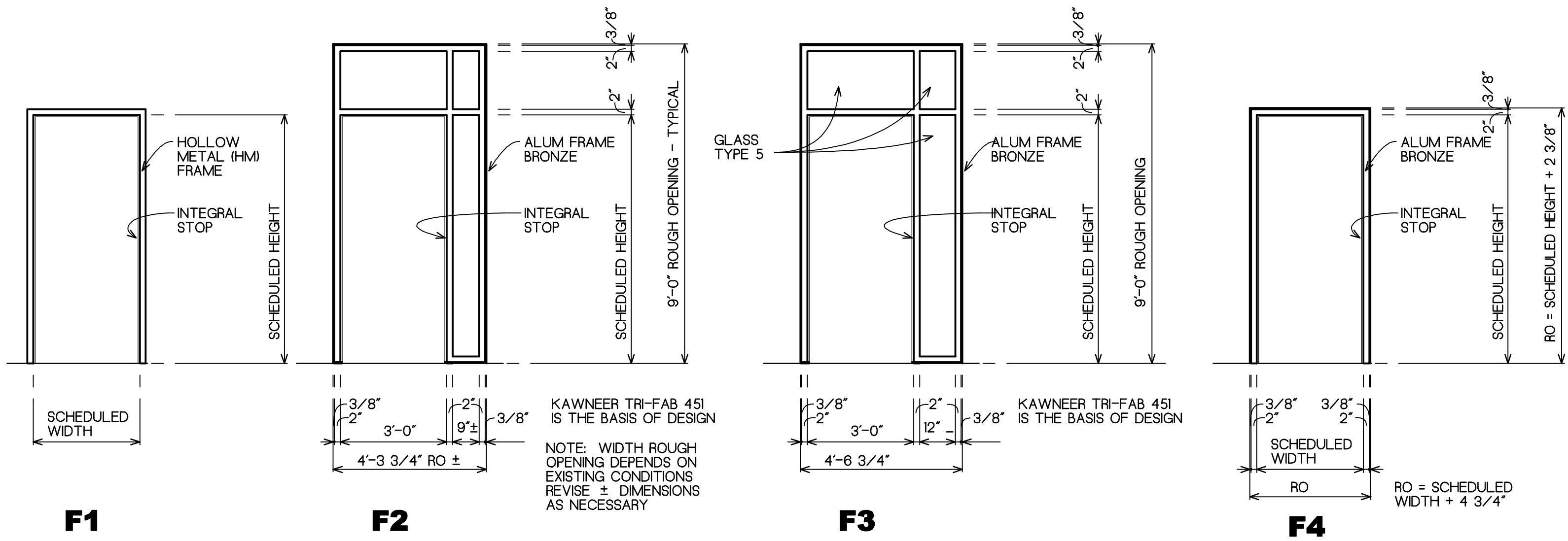
SCALE: 3/8" = 1'-0"

A3/A3

INT ELEV 12

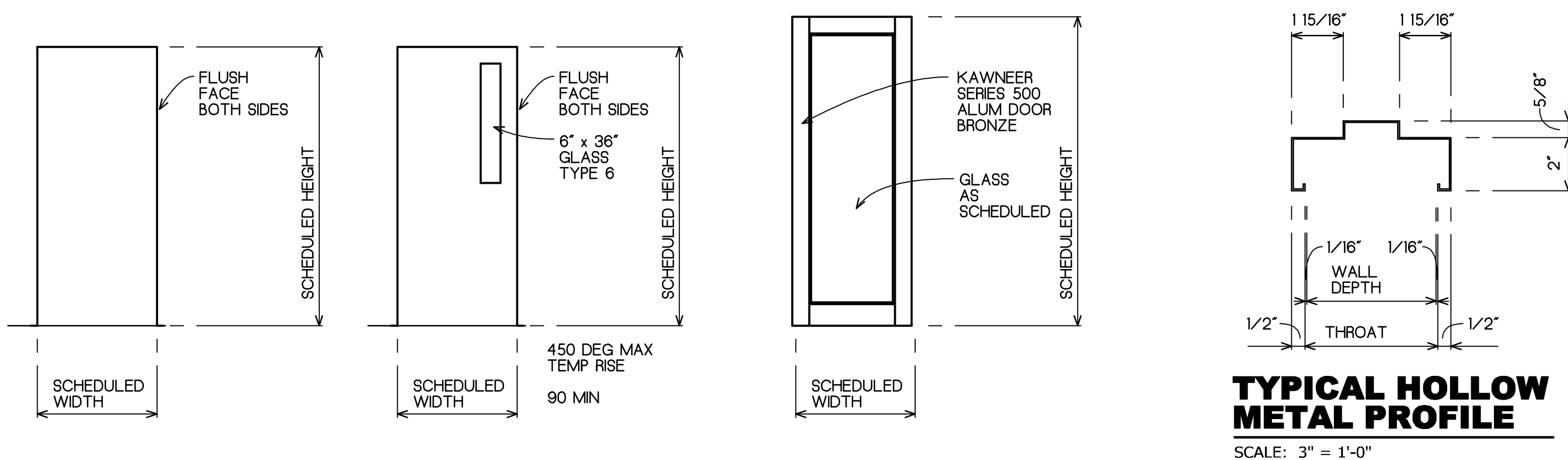
SCALE: 3/8" = 1'-0"

A3/A3



DOOR FRAME TYPES

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

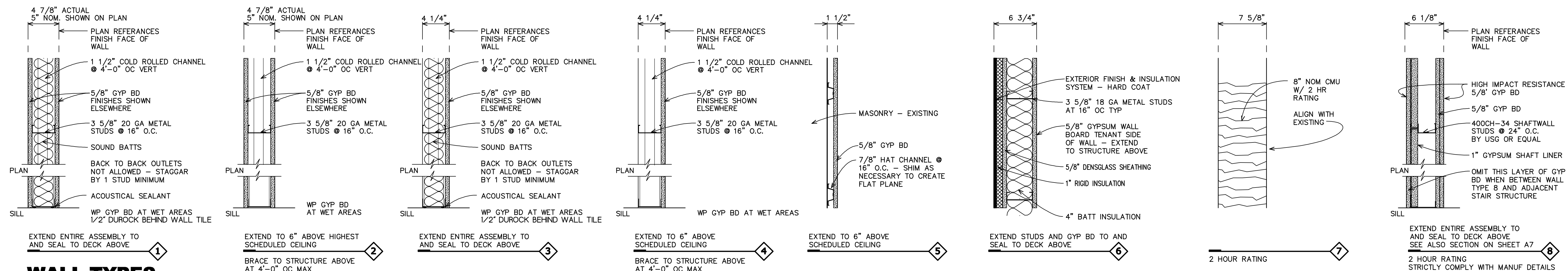


DOOR TYPES

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

SET 1 HINGES CLOSER LOCKSET SILENCER DOOR STOP	(3) US26D BB 4.5x4.5 PUSH SIDE STOREROOM (3) FLOOR STOP	SET 4 HINGES LOCKSET SILENCER DOOR STOP	(3) US26D 4.5x4.5 ENTRANCE (3) WALL STOP	SET 7 HINGES LOCKSET SILENCER DOOR STOP	(3) US26D 4.5x4.5 STORAGE (3) WALL STOP
SET 2 HINGES CLOSER LOCKSET SILENCER DOOR STOP	(3) US26D BB 4.5x4.5 PUSH SIDE PANIC x PASSAGE (3) FLOOR STOP	SET 5 HINGES CLOSER LOCKSET SILENCER DOOR STOP	(3) US26D 4.5x4.5 PUSH SIDE PRIVACY (3) WALL STOP	PROVIDE AND INSTALL CYLINDERS THAT WORK WITH THE EXISTING USC BEST LOCK KEYING SYSTEM - CONSULT WITH OWNERS REP FOR MASTERKEYING SYSTEM	
SET 3 CYLINDER BAL OF HARDWARE BY STORFRONT MANUF	(1) US26D	SET 6 CYLINDER BALANCE OF HARDWARE BY STOREFRONT MANUF	(1) US26D		

HARDWARE SETS

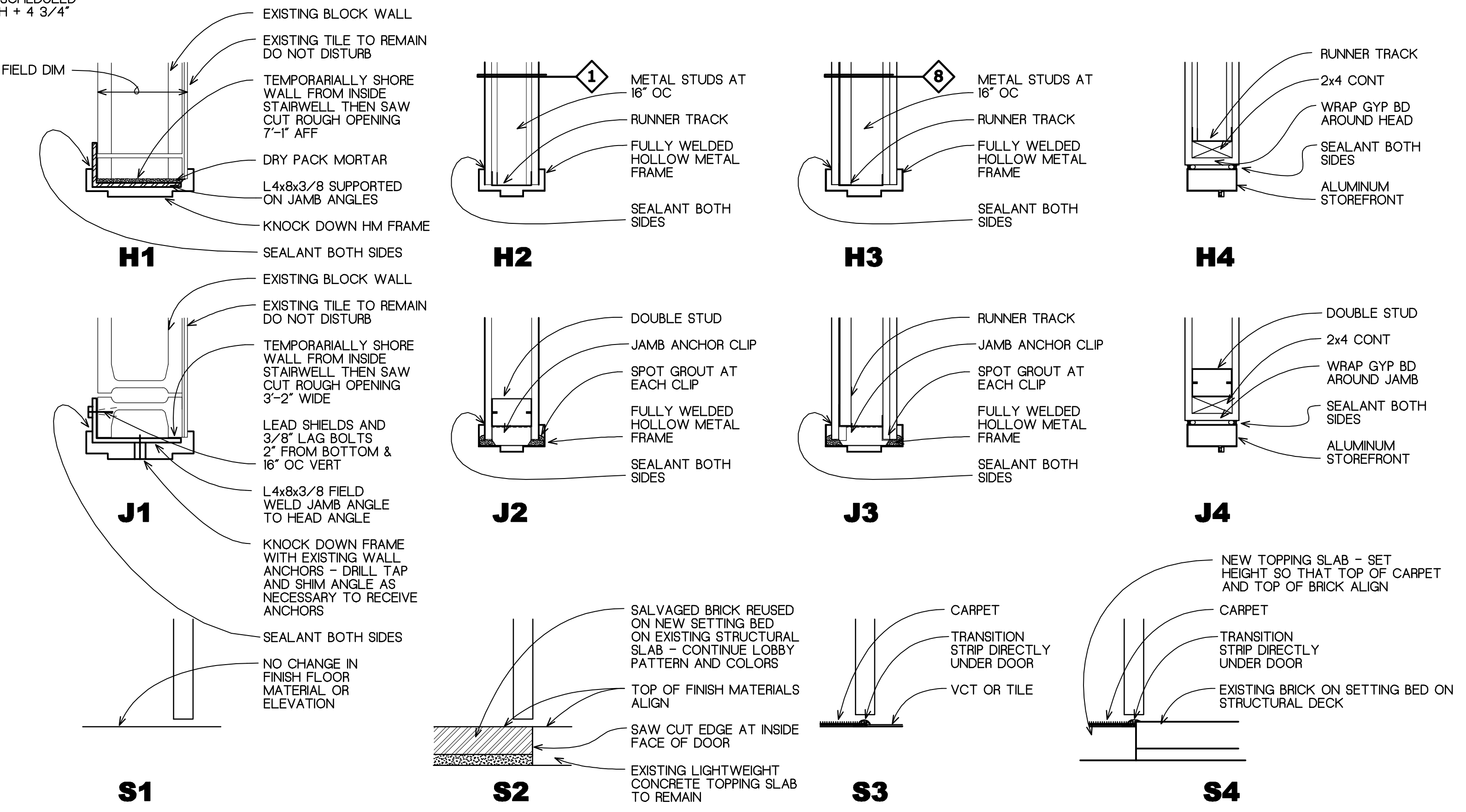


WALL TYPES

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

DOOR SCHEDULE

No	Size	FRAME	DOOR	RATING	GLASS	HARDWARE	NOTES
01	3'-0" x 7'-0"	HM F1 S2 J1 H1	NONE				
02	3'-0" x 7'-0" x 1 3/4"	HM F1 S2 J2 H2	HM	D1		SET 1	
03	3'-0" x 7'-0" x 1 3/4"	HM F1 S2 J3 H3	HM	D2	90 MIN	TYPE 6	SET 2
04	3'-0" x 7'-0" x 1 3/4"	ALUM F2 S4 J4 H4	ALUM & GLASS	D3		TYPE 5	SET 3
05	3'-0" x 7'-0" x 1 3/4"	ALUM F3 S1 J4 H4	WOOD	D1			SET 4
06	3'-0" x 7'-0" x 1 3/4"	ALUM F3 S1 J4 H4	WOOD	D1			SET 4
07	3'-0" x 7'-0" x 1 3/4"	ALUM F3 S1 J4 H4	WOOD	D1			SET 4
08	3'-0" x 7'-0" x 1 3/4"	ALUM F3 S1 J4 H4	WOOD	D1			SET 4
09	3'-0" x 7'-0" x 1 3/4"	ALUM F3 S1 J4 H4	WOOD	D1			SET 4
10	3'-0" x 7'-0" x 1 3/4"	ALUM F3 S1 J4 H4	WOOD	D1			SET 4
11	3'-0" x 7'-9 1/2" x 1 3/4"	ALUM — SEE A5 —	ALUM & GLASS	D3		TYPE 4	SET 6
12	3'-0" x 7'-0" x 1 3/4"	ALUM F3 S1 J4 H4	WOOD	D1			SET 4
13	3'-0" x 7'-0" x 1 3/4"	ALUM F4 S3 J4 H4	WOOD	D1			SET 7
14	3'-0" x 7'-0" x 1 3/4"	ALUM F4 S3 J4 H4	WOOD	D1			SET 5
15	3'-0" x 7'-0" x 1 3/4"	ALUM F4 S3 J4 H4	NONE				
16	3'-0" x 7'-0" x 1 3/4"	ALUM F4 S1 J4 H4	WOOD	D1			SET 7



DOOR DETAILS

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

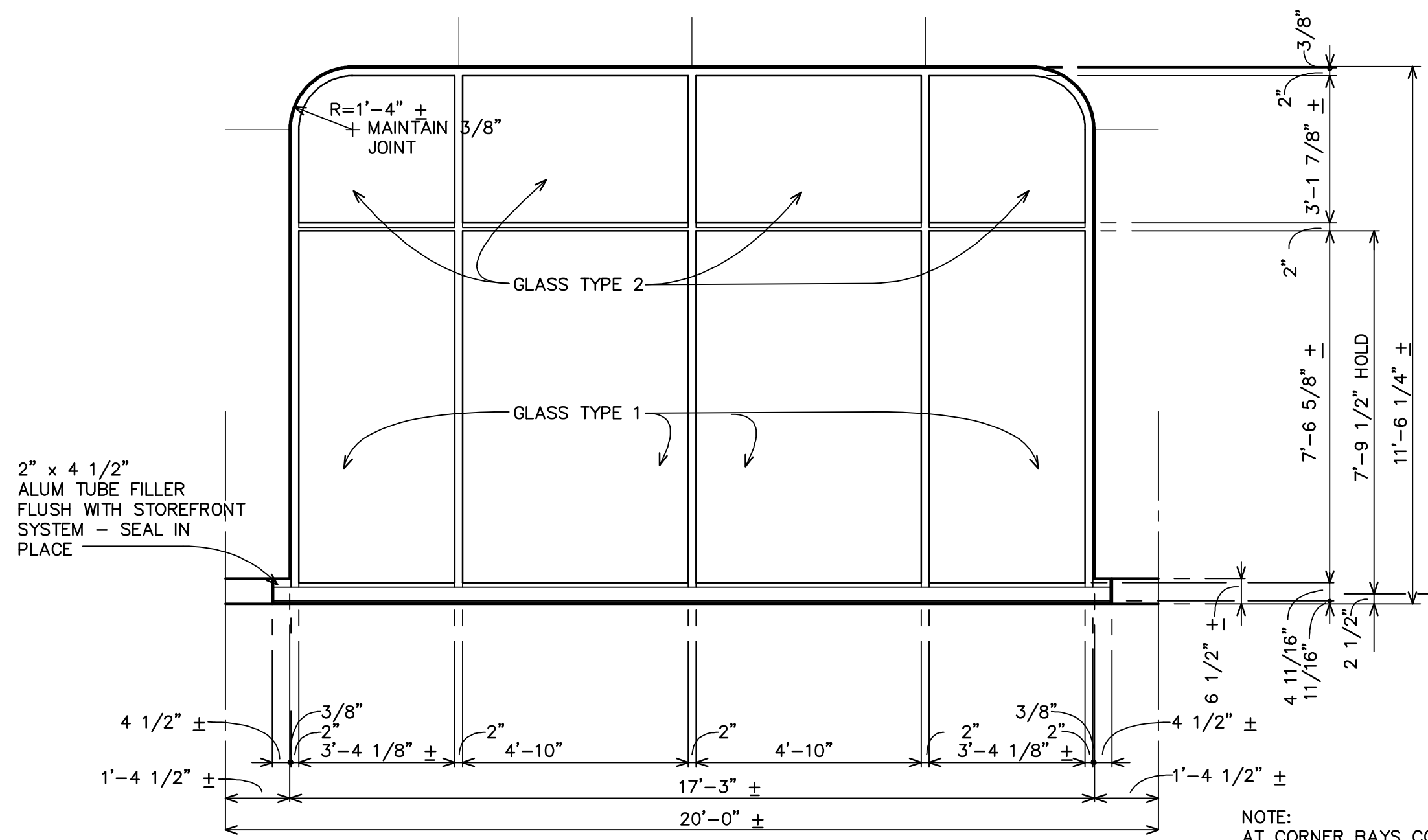
Job Number: 1103
 Drawn by: JFB
 File name: 1103 USCA V1
 Date: 4/2/2012
 Plotted on: 5/20/2012
 Drawing title: 5/20/2012

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2" x 4 1/2" ALUM TUBE FILLER FLUSH WITH STOREFRONT SYSTEM - SEAL IN PLACE

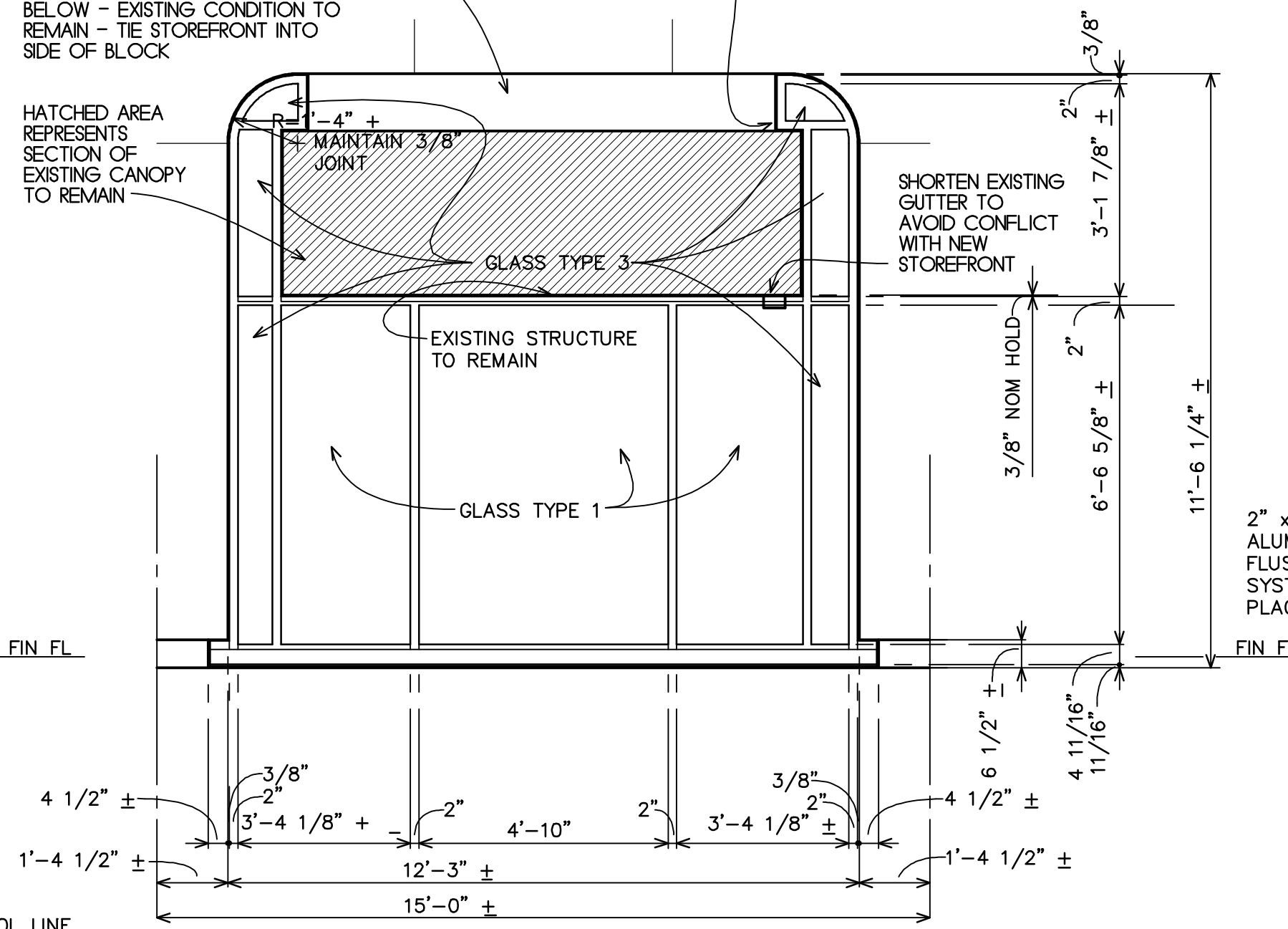


THIS AREA IS RECTANGULAR IN PLAN AND CONCEALS SUPPORT FROM STRUCTURE ABOVE TO CANOPY BELOW - EXISTING CONDITION TO REMAIN - THE STOREFRONT INTO SIDE OF BLOCK

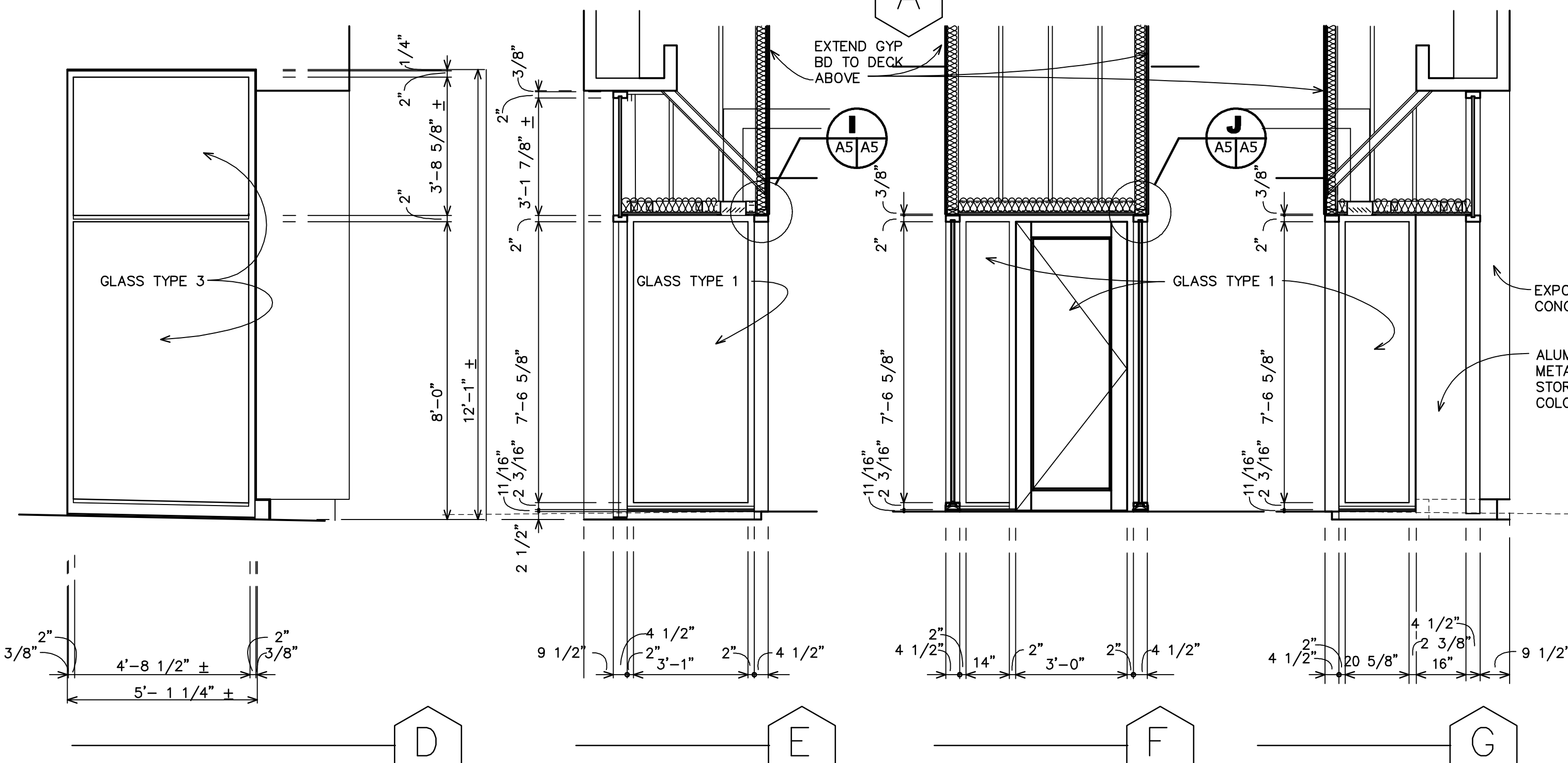
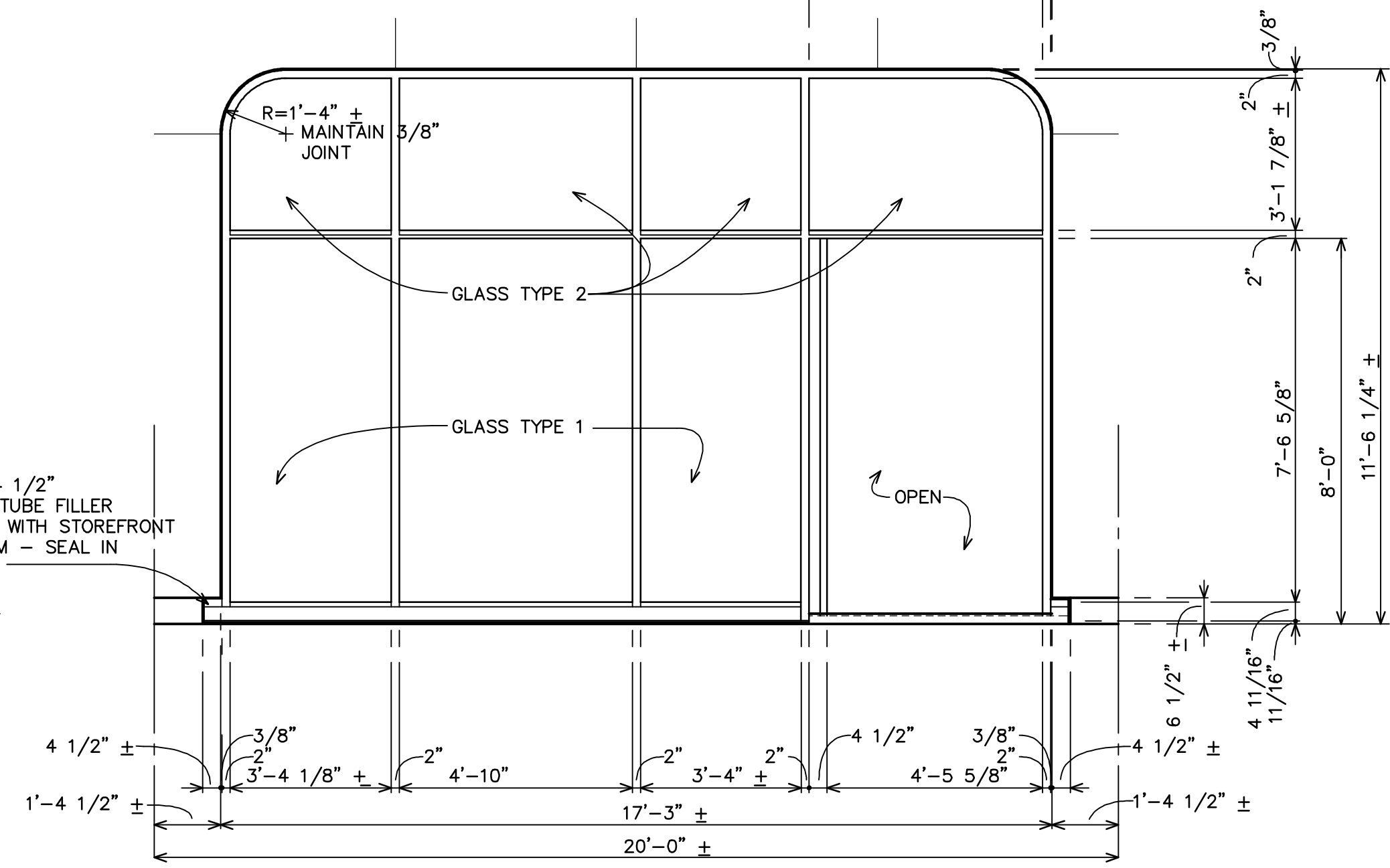
HATCHED AREA REPRESENTS SECTION OF EXISTING CANOPY TO REMAIN

NOTE: AT CORNER BAYS COL LINE TO COL LINE IS 21'-2" & COL LINE TO FACE OF PRECAST IS 2'-6 1/2" - THE RESULTING ROUGH OPENING REMAINS 17'-3"

FIELD MEASURE AND FIT TO EXISTING STRUCTURE



2" x 4 1/2" ALUM TUBE FILLER FLUSH WITH STOREFRONT SYSTEM - SEAL IN PLACE



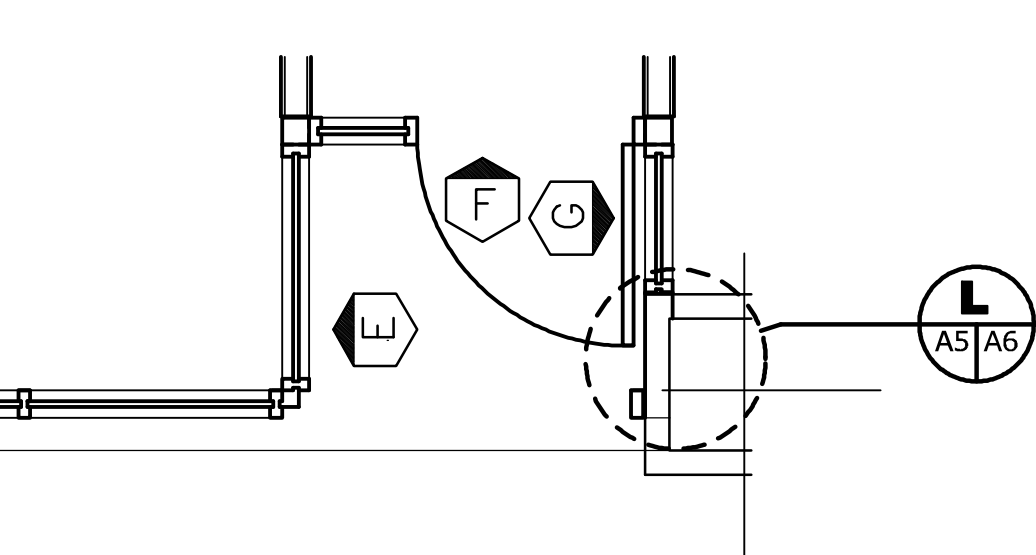
STOREFRONT ELEVATIONS

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

GLASS TYPES

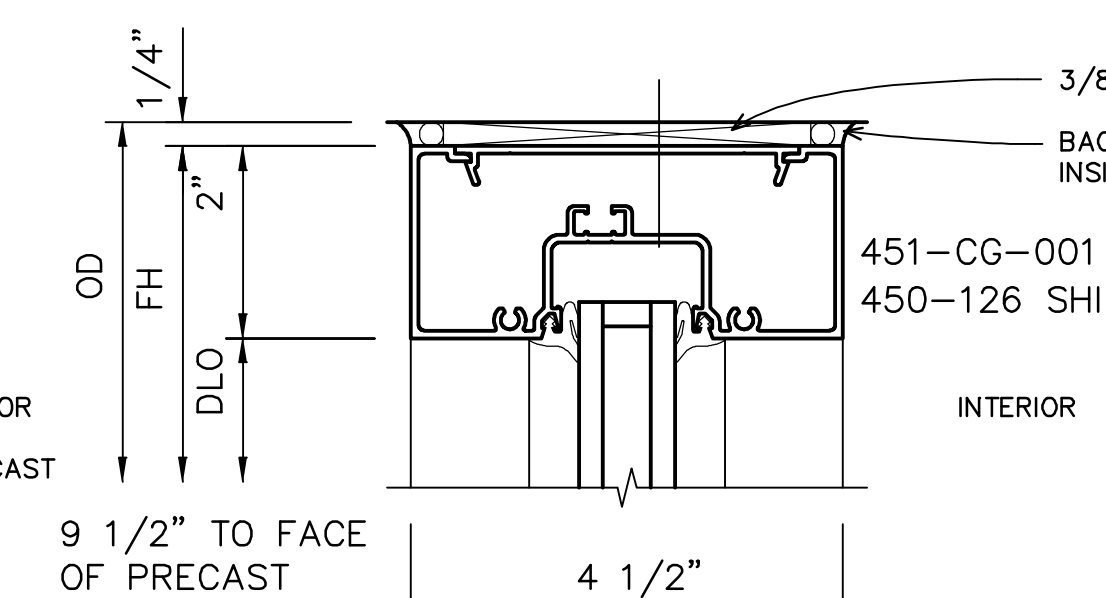
- GLASS TYPE 1: 1" INSULATING CONSISTING OF 1/4" PPG SOLAR BRONZE TINTED TEMPERED + 1/2" AIR SPACE + 1/4" CLEAR TEMPERED - PPG LOW E SOLARBAN 60 ON #2 SURFACE
- GLASS TYPE 2: 1" INSULATING CONSISTING OF 1/4" PPG SOLAR BRONZE TINTED ANEALED + 1/2" AIR SPACE + 1/4" CLEAR ANEALED - PPG LOW E SOLARBAN 60 ON #2 SURFACE
- GLASS TYPE 3: 1" INSULATING SPANDREL CONSISTING OF 1/4" PPG SOLAR BRONZE TINTED TEMPERED + 1/2" AIR SPACE + 1/4" CLEAR TEMPERED WITH ICD OPACI-COAT 300 ON #4 SURFACE- HARMONY BRONZE OR EQUAL MANUF STANDARD COLOR
- GLASS TYPE 4: 1/4" PPG SOLAR BRONZE TINTED TEMPERED
- GLASS TYPE 5: 1/4" CLEAR TEMPERED
- GLASS TYPE 6: 5/16" FIRELITE NT (FIRE RATED & TEMPERATURE RISE RATED)

SUBMIT THREE 12"x12" MINIMUM SAMPLES OF EACH GLASS TYPE AND RECEIVE ARCHITECT'S APPROVAL PRIOR TO FABRICATING GLASS UNITS



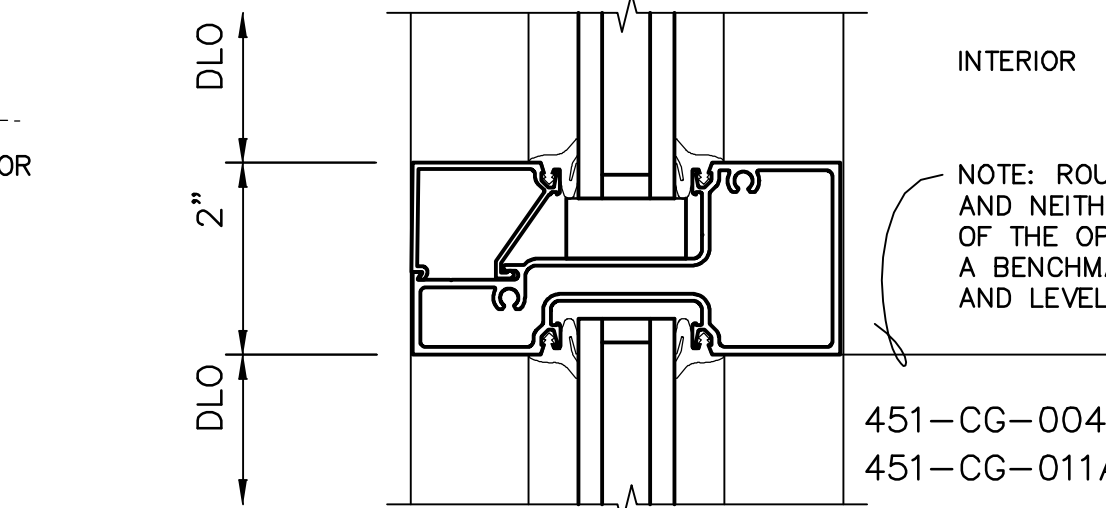
INTERIOR ELEVATION

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



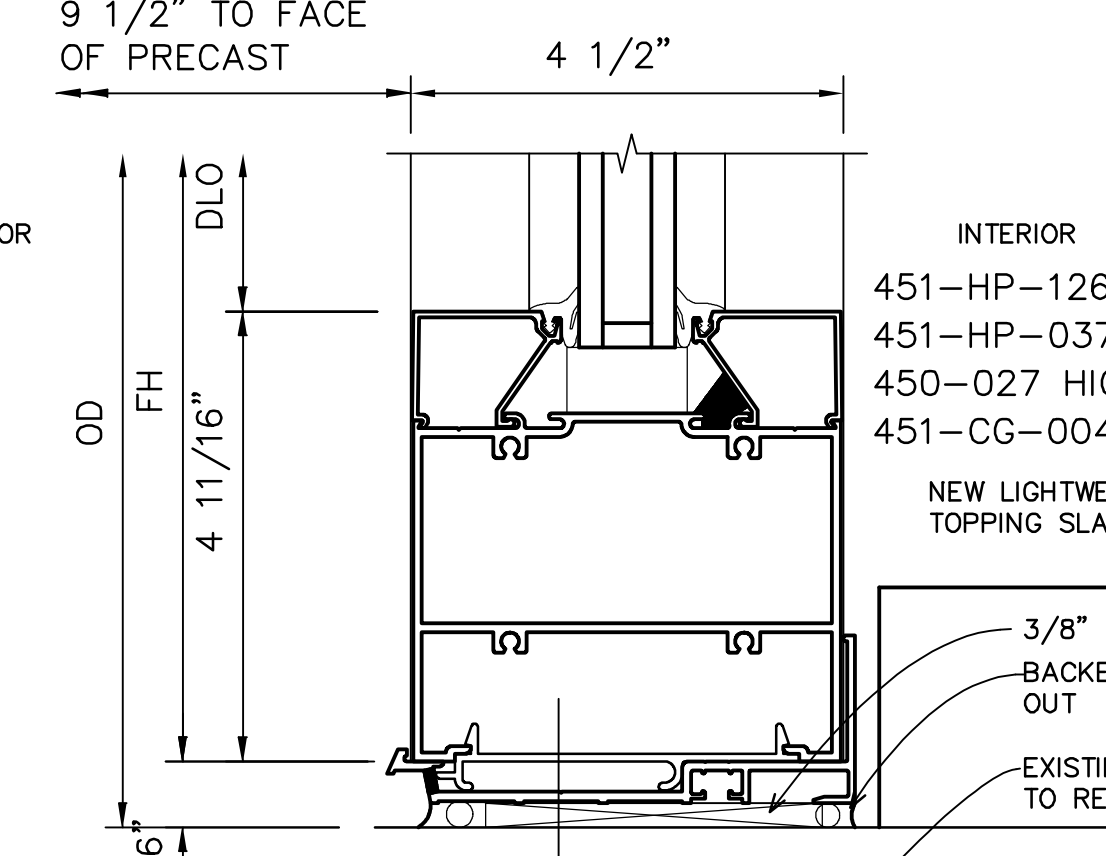
TYPICAL HEAD - JAMB SIMILAR

SCALE: 6" = 1'-0"



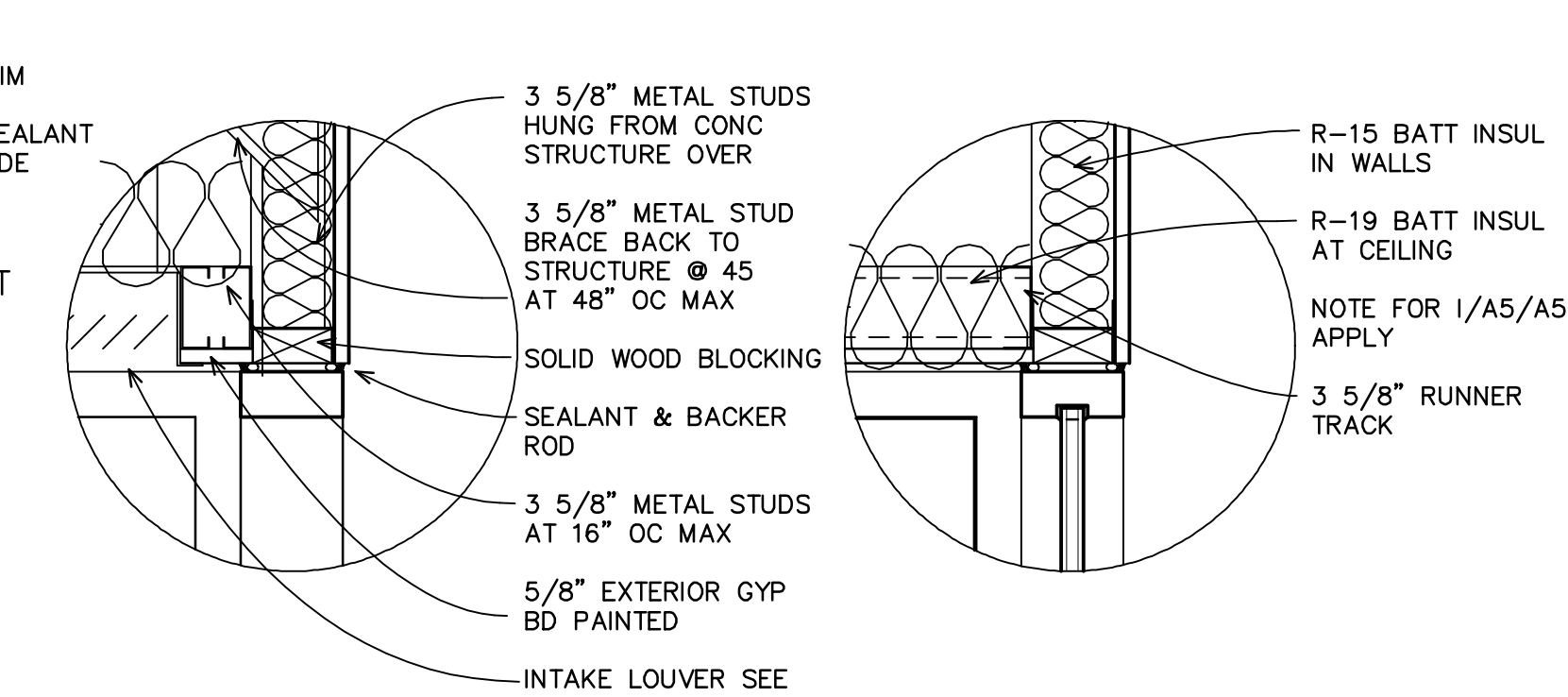
TYPICAL INTERMEDIATE HORIZONTAL

SCALE: 6" = 1'-0"



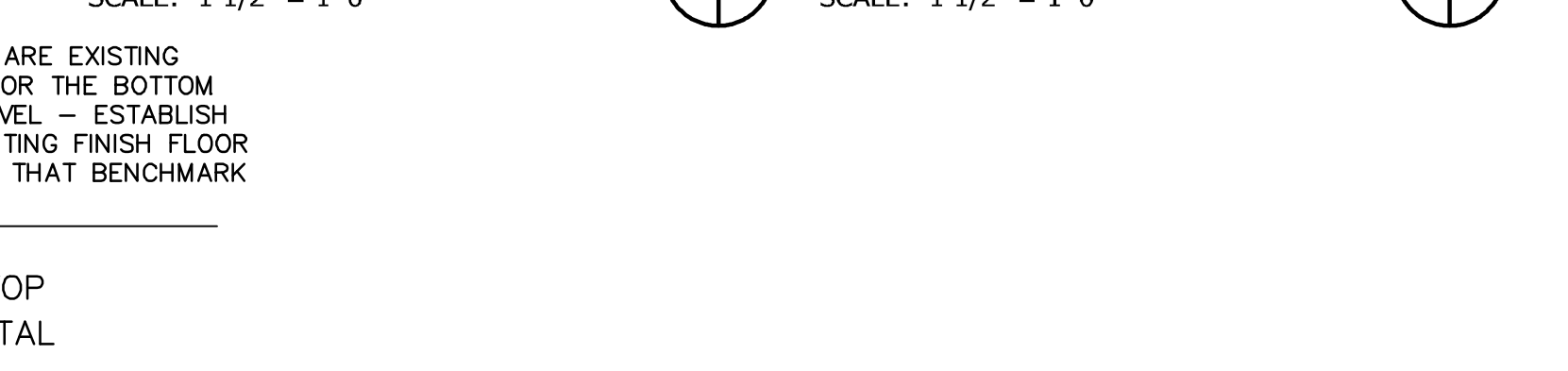
TYPICAL SILL

SCALE: 6" = 1'-0"



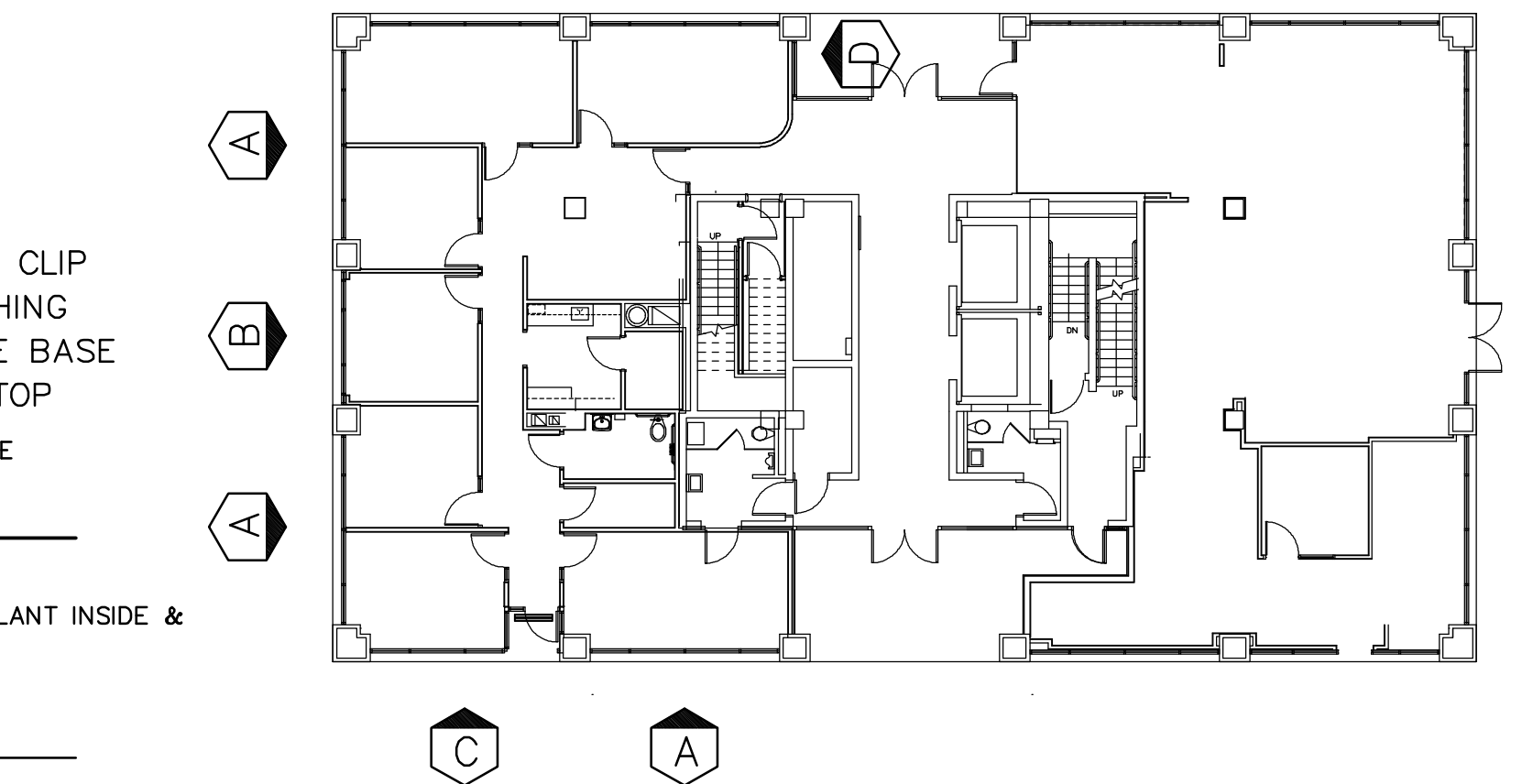
FRAMING DETAIL

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



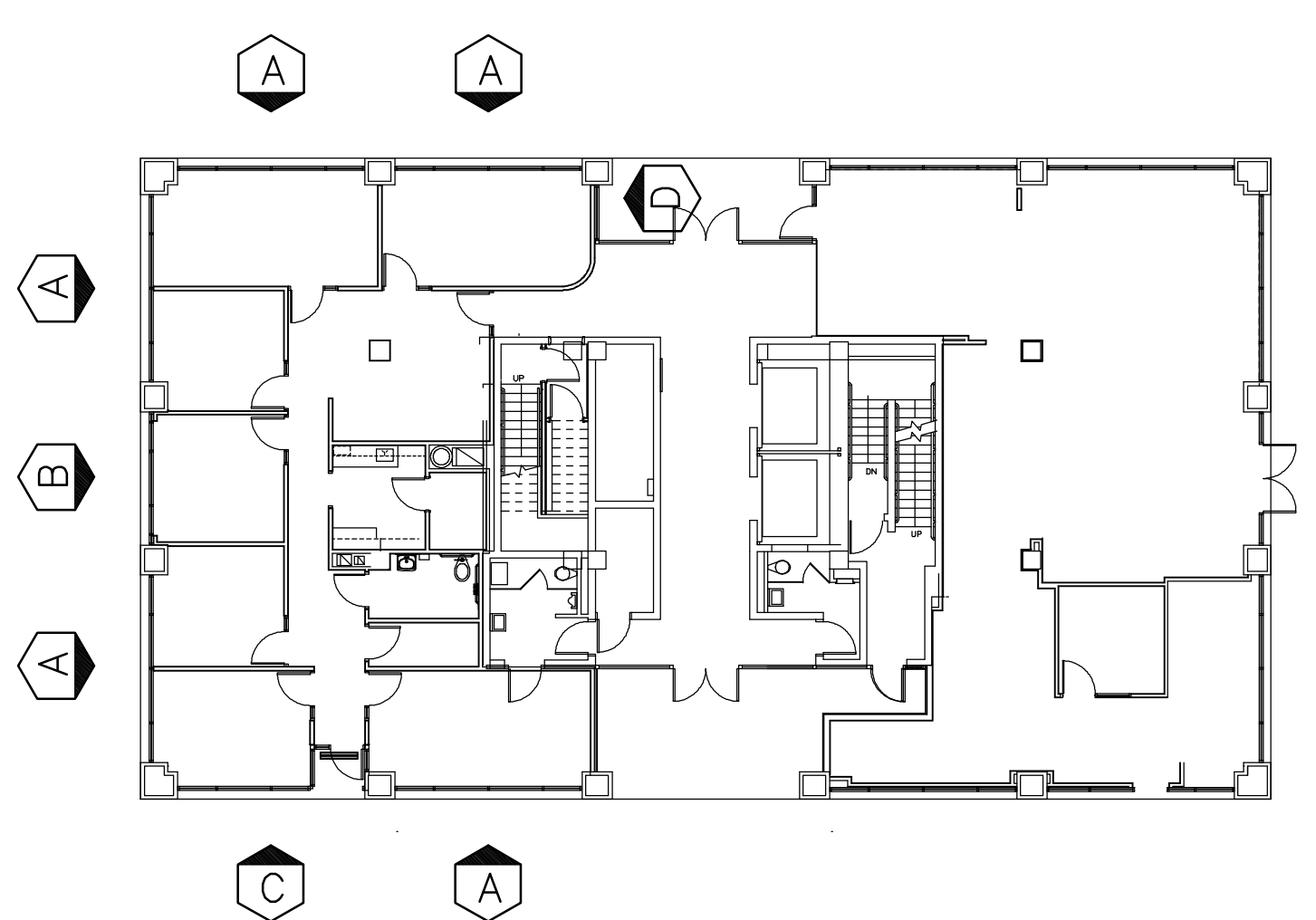
TYPICAL INTERMEDIATE HORIZONTAL

SCALE: 6" = 1'-0"



TYPICAL SILL

SCALE: 6" = 1'-0"



STOREFRONT KEY PLAN

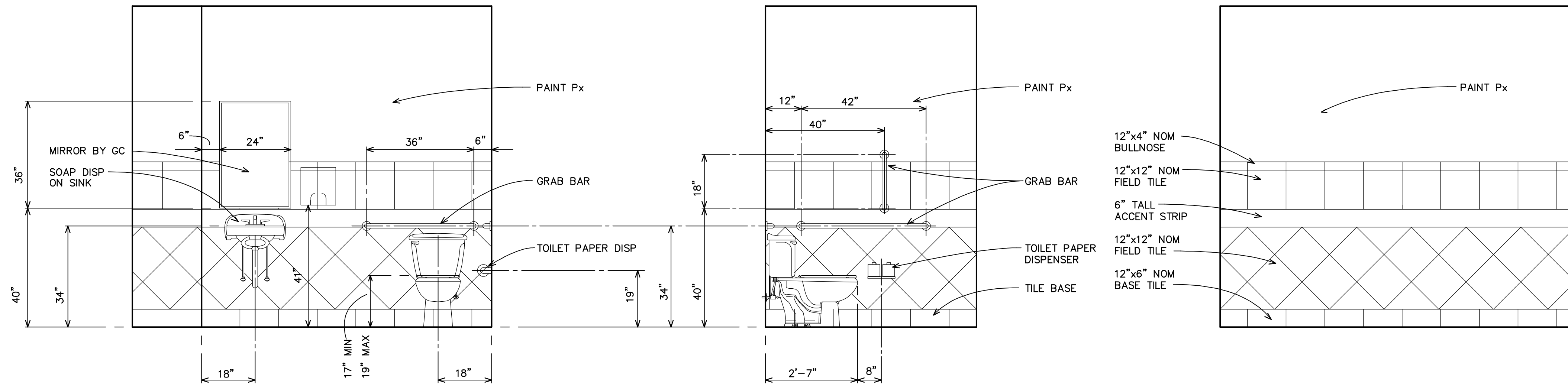
SCALE: 1/16" = 1'-0"

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 Drawn by: [blank]
 File name: HOB.dwg
 Plot date: 4/2/2012
 Drawing date: 3/20/2012
 Title: [blank]

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TOILET ROOM ELEVATION

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

A
A6 | A6

TOILET ROOM ELEVATION

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

B
A6 | A6

TOILET ROOM ELEVATION

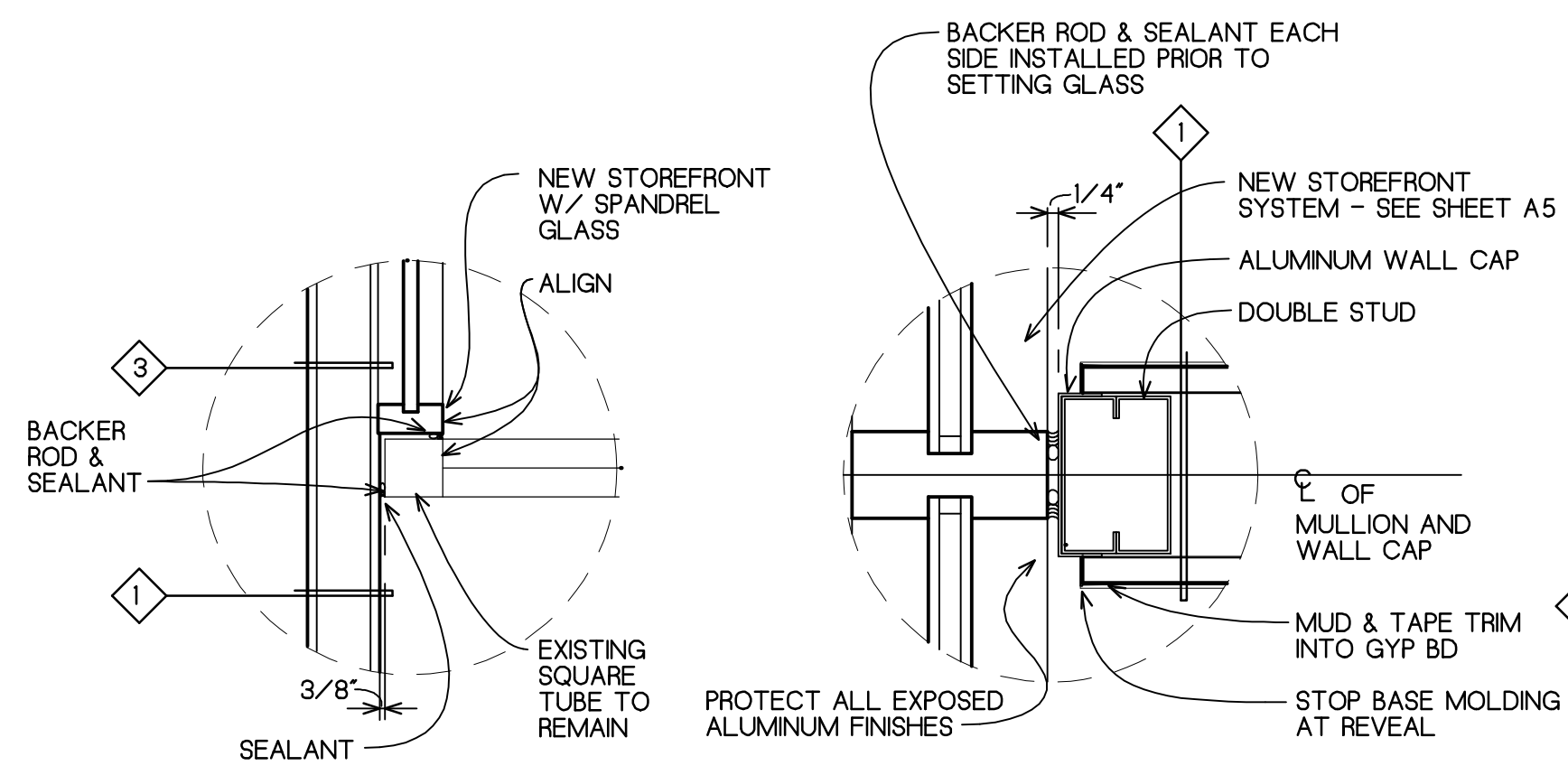
SCALE: 1/2" = 1'-0"

C
A6 | A6

TOILET ROOM ELEVATION

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

D
A6 | A6



DETAIL

SCALE: 1" = 1'-0"

E
A1 | A6

DETAIL

SCALE: 3" = 1'-0"

F
A1 | A6

DETAIL

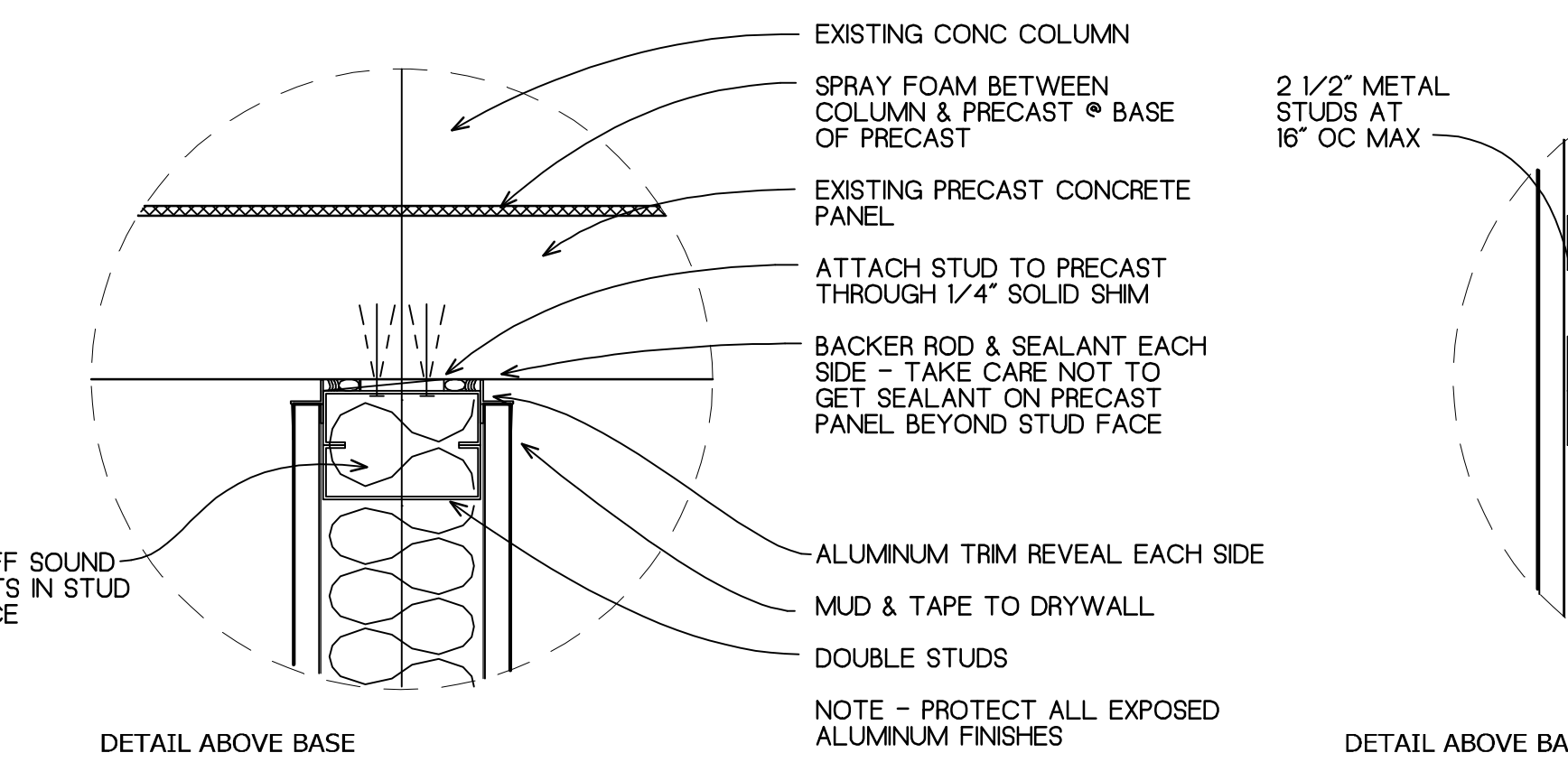
SCALE: 1" = 1'-0"

G
A1 | A6

PLAN ENLARGEMENT

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

H
D1 | A6



DETAIL ABOVE BASE

NOTE - PROTECT ALL EXPOSED ALUMINUM FINISHES

DETAIL ABOVE BASE

DETAIL ABOVE BASE

DETAIL ABOVE BASE

DETAIL AT BASE NOTES FOR DETAIL ABOVE BASE APPLY
TYPICAL AT MOST WALL TO PRECAST INTERSECTIONS
ADAPT DETAIL FOR CONDITIONS AT A5 AND E5

DETAIL

SCALE: 3" = 1'-0"

J
A1 | A6

DETAIL

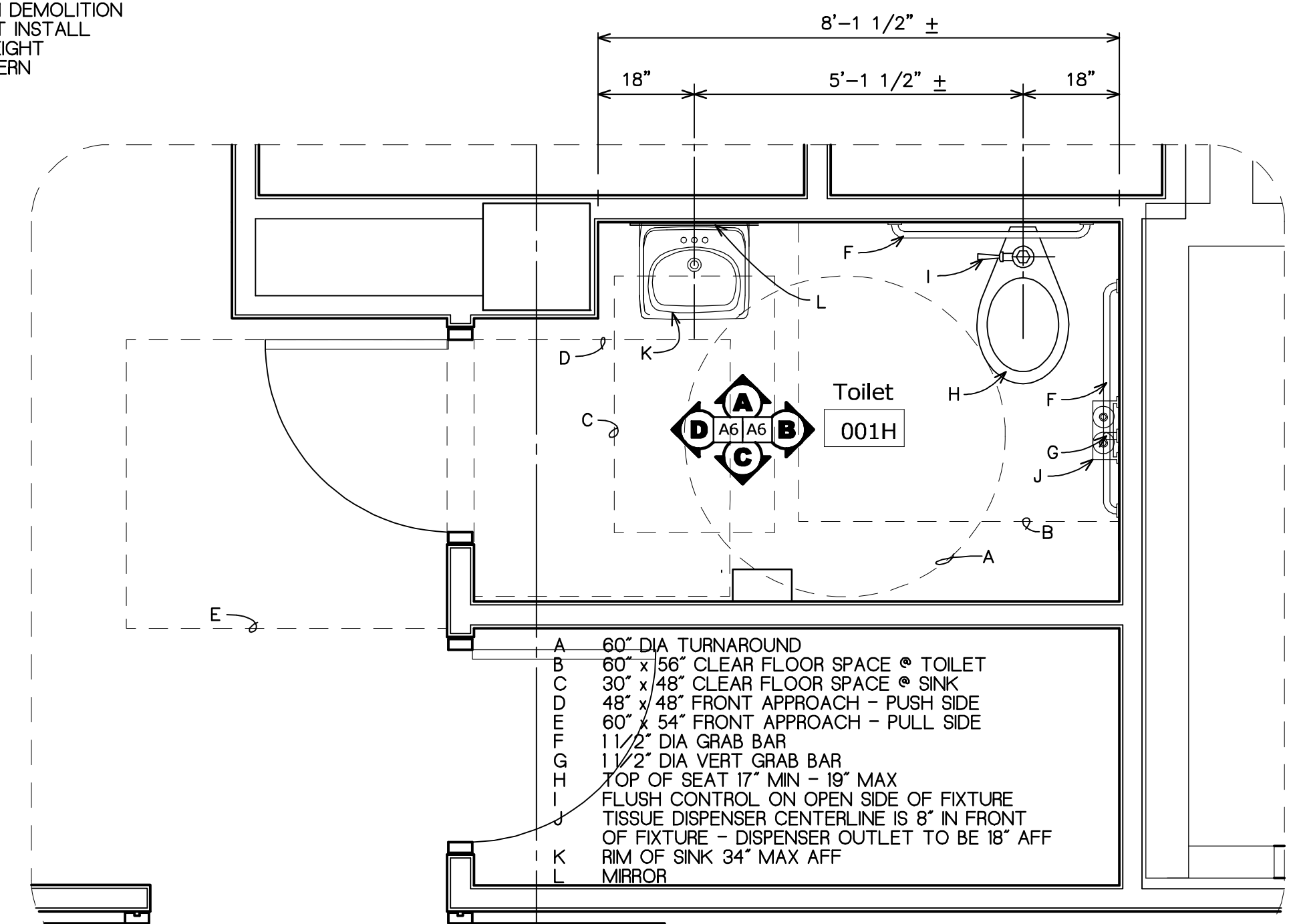
SCALE: 3" = 1'-0"

K
A1 | A6

DETAIL

SCALE: 1" = 1'-0"

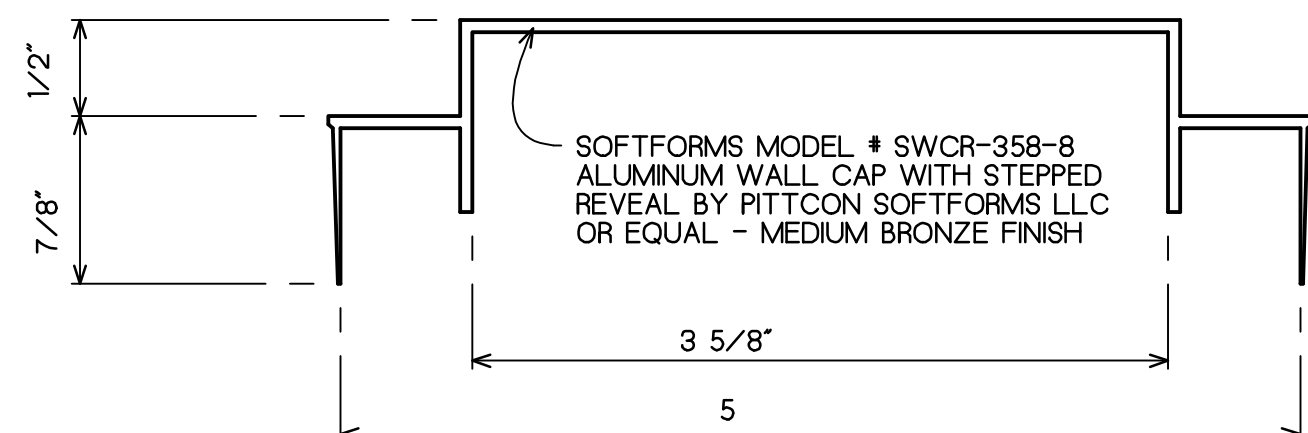
L
A5 | A6



PLAN ENLARGEMENT

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

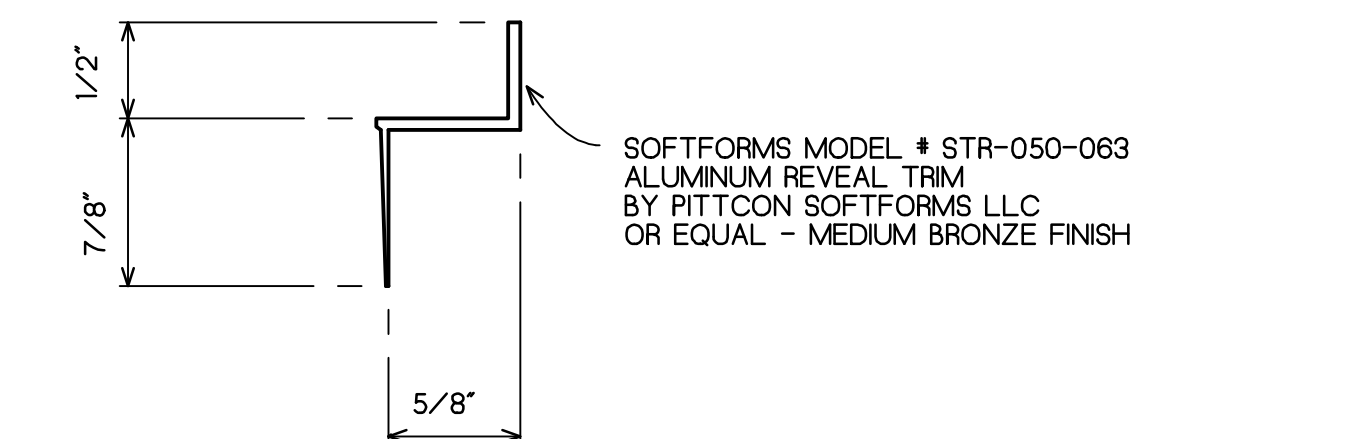
I
A1 | A6



ALUMINUM WALL CAP DETAIL

SCALE: FULL

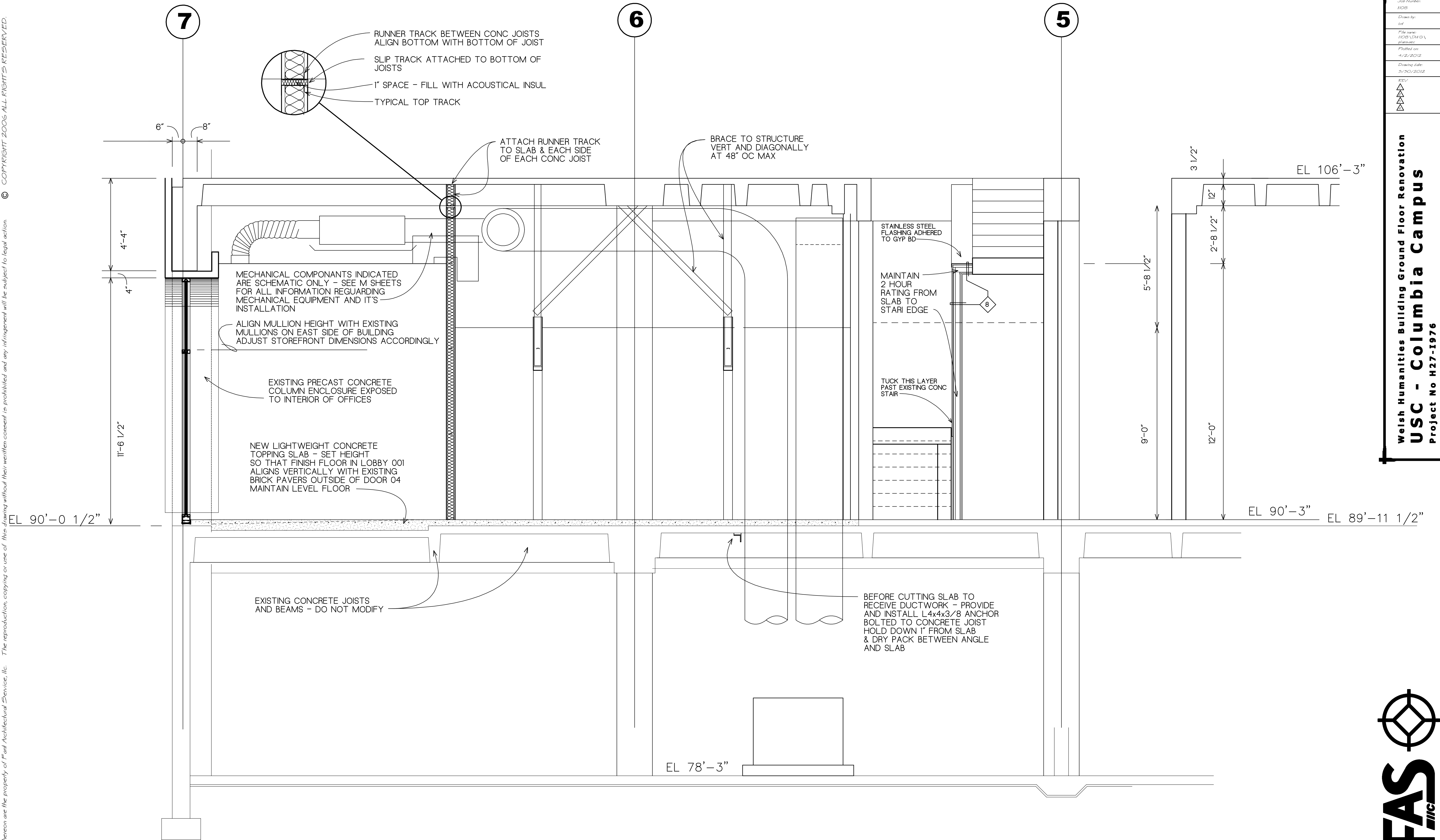
M
A6 | A6



ALUMINUM TRIM REVEAL DETAIL

SCALE: FULL

N
A6 | A6



BUILDING SECTION

SCALE: 1/2" = 1'-0"
 NOTE: STRUCTURAL INFORMATION OBTAINED FROM LBC&W DRAWINGS 1967
 MECHANICAL INFORMATION IS SCHEMATIC ONLY

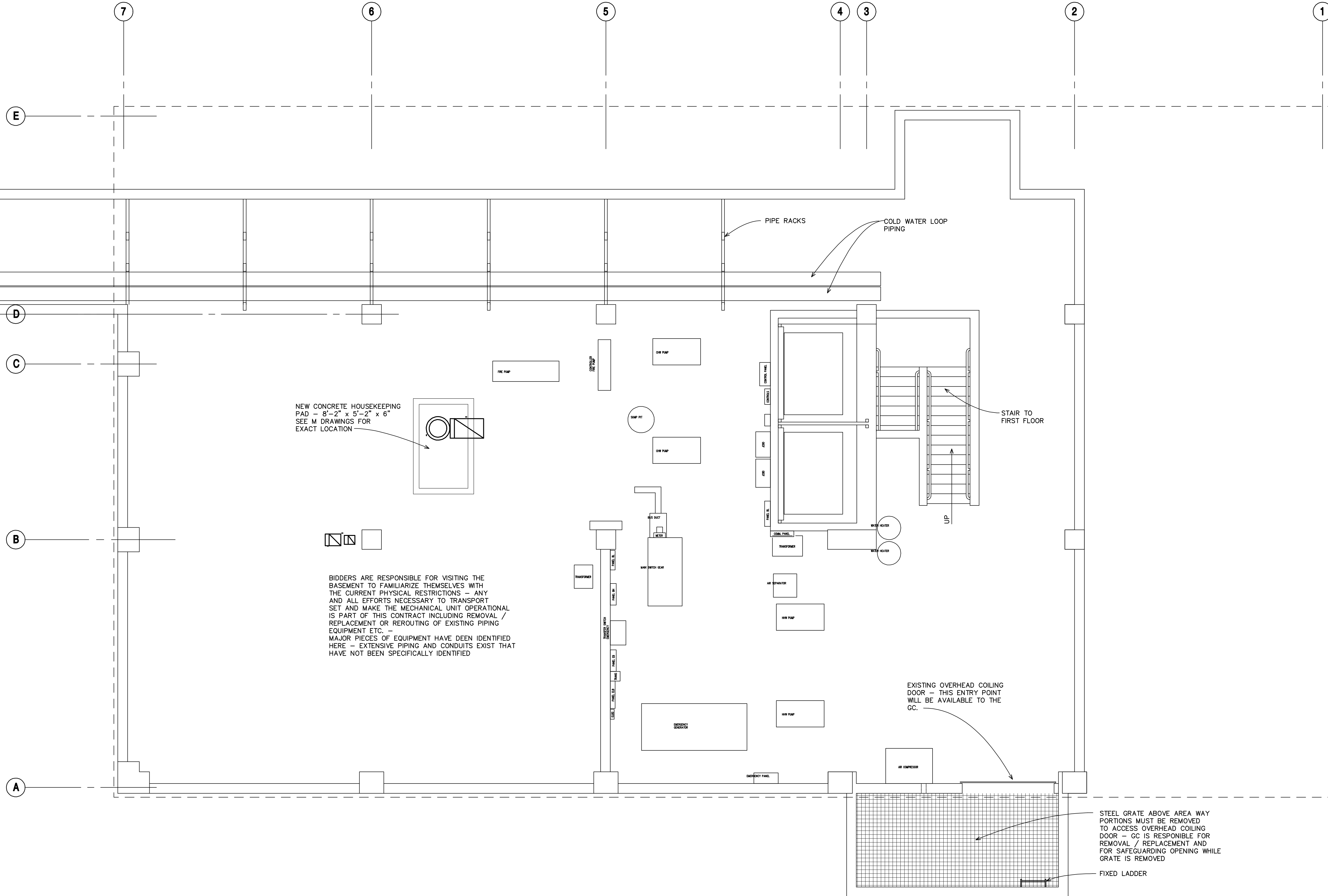
A
A7

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Drawn by:	inf
File name:	1103_LCA 01.dwg
Plotted on:	4/2/2012
Drawing date:	3/20/2012

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BASEMENT FLOOR PLAN

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



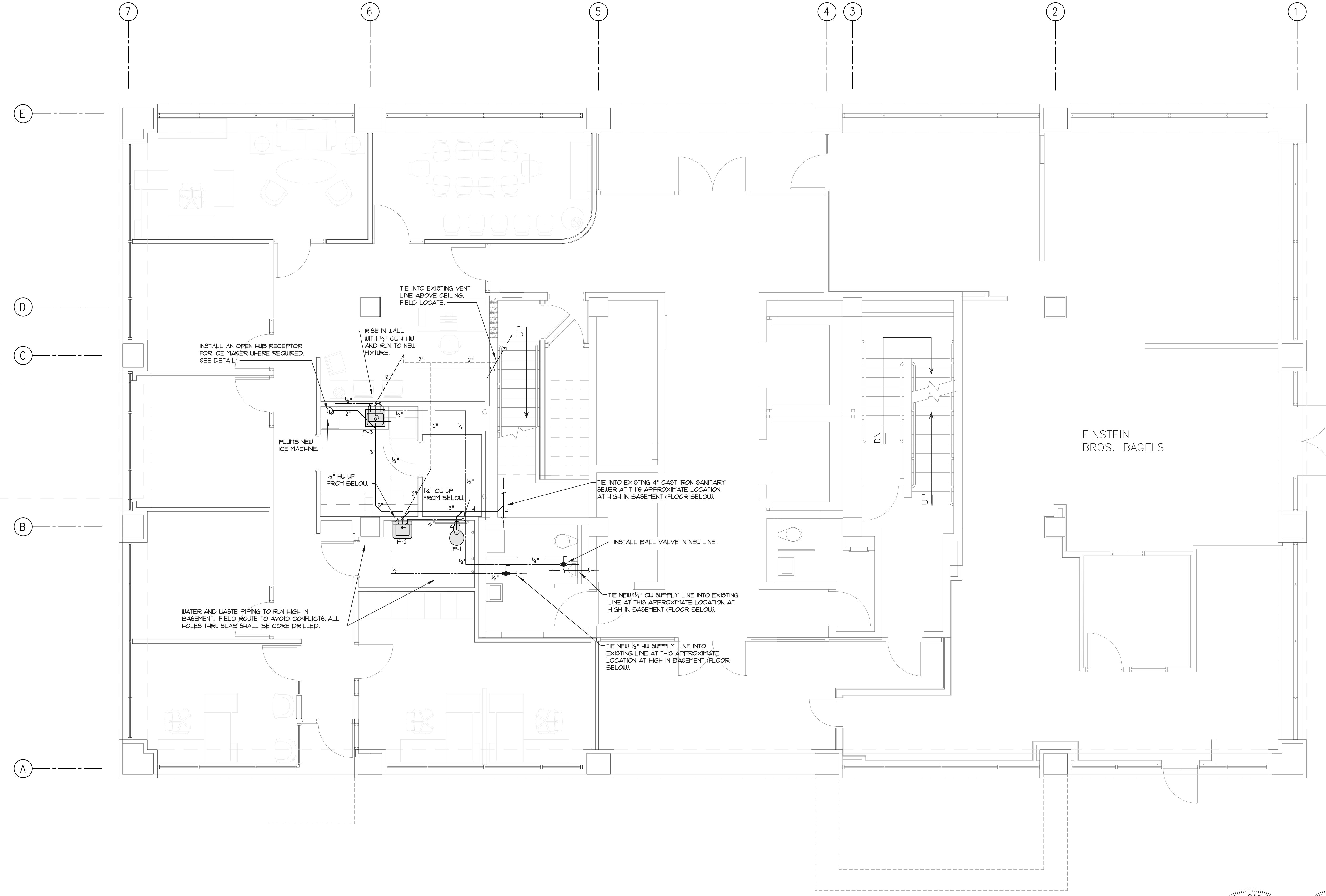
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Drawn by	inf
File name	1103_CW 01.dwg
Plotted on	4/2/2012
Drawing date	3/20/2012

KEY
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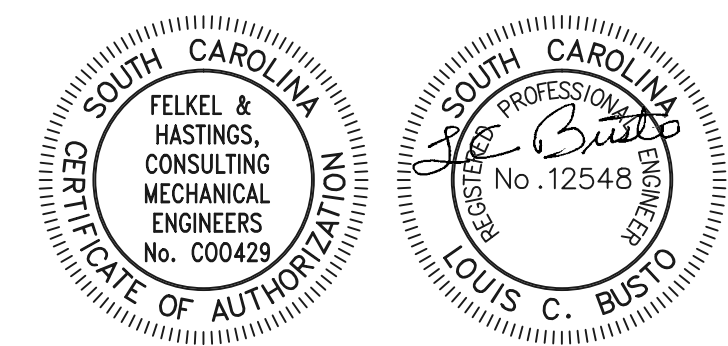
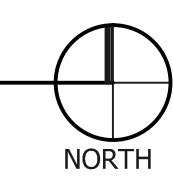
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PLUMBING PIPING PLAN

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



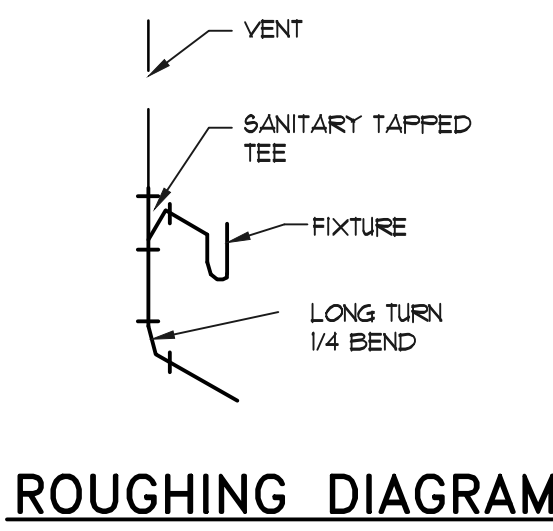
FELKEL & HASTINGS
 Mechanical Engineers
 2725 Cypress Street
 Columbia, SC 29205
 Comm. No.: 11-44 Date: 4-2-12

Job Number:	1108
Drawn by:	PRF
File name:	11-44 P1 Plumbing Plan
Plotted on:	
Drawing date:	3/30/12
REV	
▲	
▲	
▲	

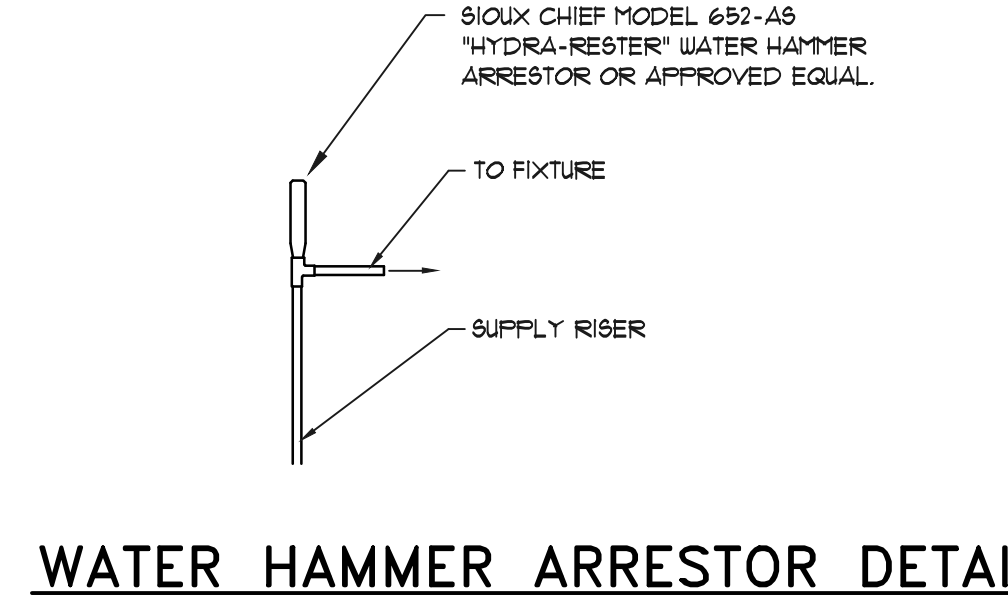
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PLUMBING FIXTURE SCHEDULE					
SYMBOL	FIXTURE	CONNECTIONS			SPECIFICATIONS
		CW	HW	WASTE	
P-1	WATER CLOSET - ADA	1/4"	—	4"	KOHLER MODEL K-4307-96, ADA HEIGHT ELONGATED BISCUIT, TOP BRND. KOHLER MODEL K-43901-CP BATTERY OPERATED AUTOMATIC FLUSH VALVE WITH MANUAL FLUSH BUTTON. KOHLER MODEL K-4666-SC BISCUIT, OPEN FRONT SEAT.
P-2	LAVATORY - WALL HANG	1/2"	1/2"	1/4"	KOHLER MODEL K-2039-96, 8 1/2" CENTERSET W/ BRNOD K-3051 BISCUIT, THREE HOLE DRILLING, KOHLER MODEL K-354-4-BV CHROME PLATED BRASS UNDERSPREAD FAUCET. EDC MODEL 657UC GRID DRAIN, EDC TAND 2 LIB DSB P-TRAP, K TRAP INSULATOR, EDC VANGK HEAVY DUTY STOP VALVES WITH SUPPLIES. JK SPITH FIXTURE 6700 LAVATORY SUPPORT.
P-3	BREAK ROOM SINK	1/2"	1/2"	1/4"	ELKAY MODEL ELU48WDB6 STAINLESS STEEL SINGLE COMPARTMENT UNDERMOUNT SINK, KOHLER MODEL K-6333 FULL-OUT KITCHEN SINK FAUCET, EDC 6684 HEAVY CAST BRASS STRAINER, EDC TA 2 TOP P-TRAP, LASK HEAVY DUTY STOP AND SUPPLIES. GEN CONTR. TO INSTALL SINK. 4 HOLE DRILLED FOR FAUCET.



PLUMBING SYMBOLS	
	SOIL OR WASTE PIPING
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING
	A.A.V. AIR ADMITTANCE VALVE
	CO CLEANOUT IN WALL
	CO CLEANOUT IN FLOOR OR TO GRADE
	BALL VALVE



WATER HAMMER ARRESTOR DETAIL

PLUMBING SPECIFICATIONS	
1.01	SCOPE: THESE SPECIFICATIONS TOGETHER WITH THE ACCOMPANYING PLUMBING DRAWINGS ARE INTENDED TO PROVIDE COMPLETE PLUMBING INSTALLATION FOR THE RENOVATED AREA AND SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS.
1.02	GENERAL: ALL WORK SHALL BE PERFORMED BY SKILLED AND CAPABLE WORKMEN UNDER COMPETENT SUPERVISION, EMPLOYING LATEST AND BEST PRACTICES OF THE TRADE. WORK SHALL BE INSTALLED ACCORDING TO THE ADOPTED LOCAL PLUMBING CODE, AND SHALL MEET WITH PLUMBING INSPECTOR'S APPROVAL IN EVERY RESPECT. LOCAL CODE SHALL APPLY WHERE SUCH CODE EXCEEDS REQUIREMENTS OF THIS SPECIFICATION. IN ABSENCE OF CODE OR AUTHORITIES, INSTALL ALL WORK ACCORDING TO THE 2009 INTERNATIONAL PLUMBING CODE. PLUMBING CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES, AT HIS OWN EXPENSE, AND SHALL PAY ALL SERVICE CHARGES REQUIRED FOR PROSECUTION OF THIS WORK. PLUMBING DRAWINGS ARE DIAGRAMMATIC ONLY, AND DO NOT SHOW ALL OFFSETS, FITTINGS, ETC.. COORDINATE WORK WITH OTHER TRADES, FURNISHING AND INSTALLING ALL FITTINGS, OFFSETS, ETC., REQUIRED AT NO ADDITIONAL COST TO OWNER.
2.01	MATERIALS: • SOIL & WASTE PIPING: SERVICE WEIGHT CAST IRON WITH FOUR-BAND NO-HUB COUPLINGS. • WATER PIPING: TYPE "L" COPPER WITH SOLDERED WROUGHT FITTINGS. • INSULATION: OWENS-CORNING ASJ 25 FIBERGLASS, 1" THICK ON MODIFIED WATER PIPING.
2.02	PIPE HANGERS AND SUPPORTS: PIPING SHALL BE INSTALLED WITHOUT UNDUE STRESS OR STRAIN ON JOINTS AND EQUIPMENT. HANGERS SHALL BE SECURELY ANCHORED TO BUILDING STRUCTURE. PIPE HANGERS SHALL BE INSTALLED AROUND THE INSULATION WHERE PIPES ARE INSULATED. INSTALL HANGER WITH SHEET METAL SADDLES TO PROTECT THE PIPE INSULATION TO KEEP THE INSULATION FROM CRUSHING. MAKESHIFT, FIELD DEVISED METHODS OF PLUMBING PIPE SUPPORT, SUCH AS WITH THE USE OF SCRAP FRAMING MATERIALS, ARE NOT ALLOWED. SUPPORT AND POSITIONING OF PIPING SHALL BE BY MEANS OF ENGINEERED METHODS THAT COMPLY WITH IPMPO PS 42-96. THESE SHALL BE HUBBARD ENTERPRISES/HOLDRITE SUPPORT SYSTEMS OR ENGINEER-APPROVED EQUIVALENT.
2.03	FIXTURES: ALL FIXTURES SHALL BE NEW, FIRST QUALITY, AND FREE FROM DEFECTS. FIXTURES SHALL BE FURNISHED COMPLETE WITH SUPPLY PIPES, STOP VALVES, TRAPS, FAUCETS, ESCUTCHEONS, HANGERS, SUPPORTS, ETC.. ALL EXPOSED PIPING SHALL BE CHROME PLATED. WHERE FIXTURES ARE INSTALLED IN CONTACT WITH WALLS OR FLOORS, SEAL THE SPACES AT THE OUTER EDGES OF FIXTURES IN CONTACT WITH WALLS OR FLOORS USING A NON-HARDENING BATHTUB CAULK, "SILASTIC" BY DOW-CORNING, OR APPROVED EQUAL. ALL WALL MOUNTED FIXTURES SHALL BE EITHER MOUNTED ON HEAVY DUTY CONCEALED CARRIERS, HEAVY DUTY WALL MOUNTING BRACKETS WITH THRU WALL BOLTS AND BACK PLATES, OR HEAVY DUTY BRACKETS MOUNTED DIRECTLY TO CONCRETE-FILLED BLOCK WORK WITH STRUCTURAL FASTENERS OF THE "RED-HEAD" TYPE FASTENED INTO THE CONCRETE FILL. STANDARD LIGHT-WEIGHT PRESSED STEEL MOUNTING BRACKETS WITH SCREWS AND ORDINARY SHIELDS INTO THE SURFACE OF THE BLOCK WILL NOT BE ACCEPTABLE.
3.01	CLEANING, PAINTING, AND ADJUSTING: AT THE COMPLETION OF THE WORK, ALL PARTS OF THE INSTALLATION SHALL BE THOROUGHLY CLEANED. ALL EQUIPMENT, PIPE, VALVES, AND FITTINGS SHALL BE CLEANED OF ALL GREASE, METAL CUTTINGS, AND SLUDGE WHICH MAY HAVE ACCUMULATED BY OPERATION OF THE SYSTEM FOR TESTING. ANY STOPPAGE, DISCOLORATION, OR OTHER DAMAGE TO PARTS OF THE BUILDING, ITS FINISH OR FURNISHINGS, DUE TO THE CONTRACTOR'S FAILURE TO PROPERLY CLEAN THE PIPING SYSTEM, SHALL BE REPAIRED BY THE PLUMBING CONTRACTOR WITHOUT COST TO THE OWNER. ALL FLUSH VALVES AND OTHER PARTS OF THE SYSTEM SHALL BE ADJUSTED FOR QUIET AND PROPER OPERATION. FIXTURES SHALL BE TESTED FOR SOUNDNESS, STABILITY OF SUPPORT, AND SATISFACTORY OPERATION OF ALL COMPONENT PARTS.
3.02	INSTRUCTION BOOKLETS: CONTRACTOR SHALL FURNISH THE OWNER TWO COMPLETE SETS OF INSTRUCTION BOOKLETS REGARDING THE OPERATION AND MAINTENANCE OF ALL PLUMBING ITEMS OF EQUIPMENT INSTALLED UNDER THIS CONTRACT. BOOKLETS SHALL INCLUDE A COMPLETE PARTS LIST AND TECHNICAL DATA, INCLUDING PREVENTATIVE MAINTENANCE INSTRUCTIONS FOR ALL ITEMS OF EQUIPMENT. EACH SET OF INSTRUCTION BOOKLETS SHALL BE NEATLY BOUND INTO A SINGLE UNIT AND PRESENTED TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE JOB.
3.03	GUARANTEES AND WARRANTIES: CONTRACTOR SHALL SERVICE AND MAINTAIN ALL EQUIPMENT INSTALLED BY HIM UNDER THIS CONTRACT FOR A LIKE PERIOD OF 12 MONTHS FROM THE DATE THE CERTIFICATE OF SUBSTANTIAL COMPLETION IS ISSUED, PERFORMING ALL REQUIRED SEASONAL MAINTENANCE. CONTRACTOR SHALL GUARANTEE MECHANICAL SYSTEMS AS INSTALLED BY HIM TO OPERATE QUIETLY, SAFELY, AND EFFICIENTLY.

PLUMBING NOTES	
1.	DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, FIXTURE, LOCATIONS, ETC.
2.	EXCEPT WHERE PIPE SPACE IS PROVIDED OR UNLESS OTHERWISE NOTED, ALL SUPPLY, WASTE AND VENT RISERS SHALL BE RUN IN WALLS AND PARTITIONS.
3.	GENERALLY HOT AND COLD WATER PIPING RUNS HIGH IN BASEMENT.
4.	COORDINATE CLOSELY WITH ALL WORK DONE UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE AND CONFLICT.
5.	CONTRACTOR WILL ROUGH-IN ALL WASTE AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES WILL BE VALVED.
6.	WATER CLOSETS IN TOILET ROOMS SHALL BE CENTERED ACCORDING TO FINAL LAYOUT OF ARCHITECTURAL DRAWINGS.

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CONSULTING
MECHANICAL
ENGINEERS
No. 000429
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL
REGISTERED
No. 12548
LOUIS C. BUSTO

FELKEL & HASTINGS
Mechanical Engineers
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Columbia, SC 29205
Comm. No.: 11-44 Date: 4-2-12

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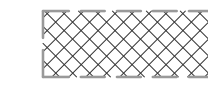
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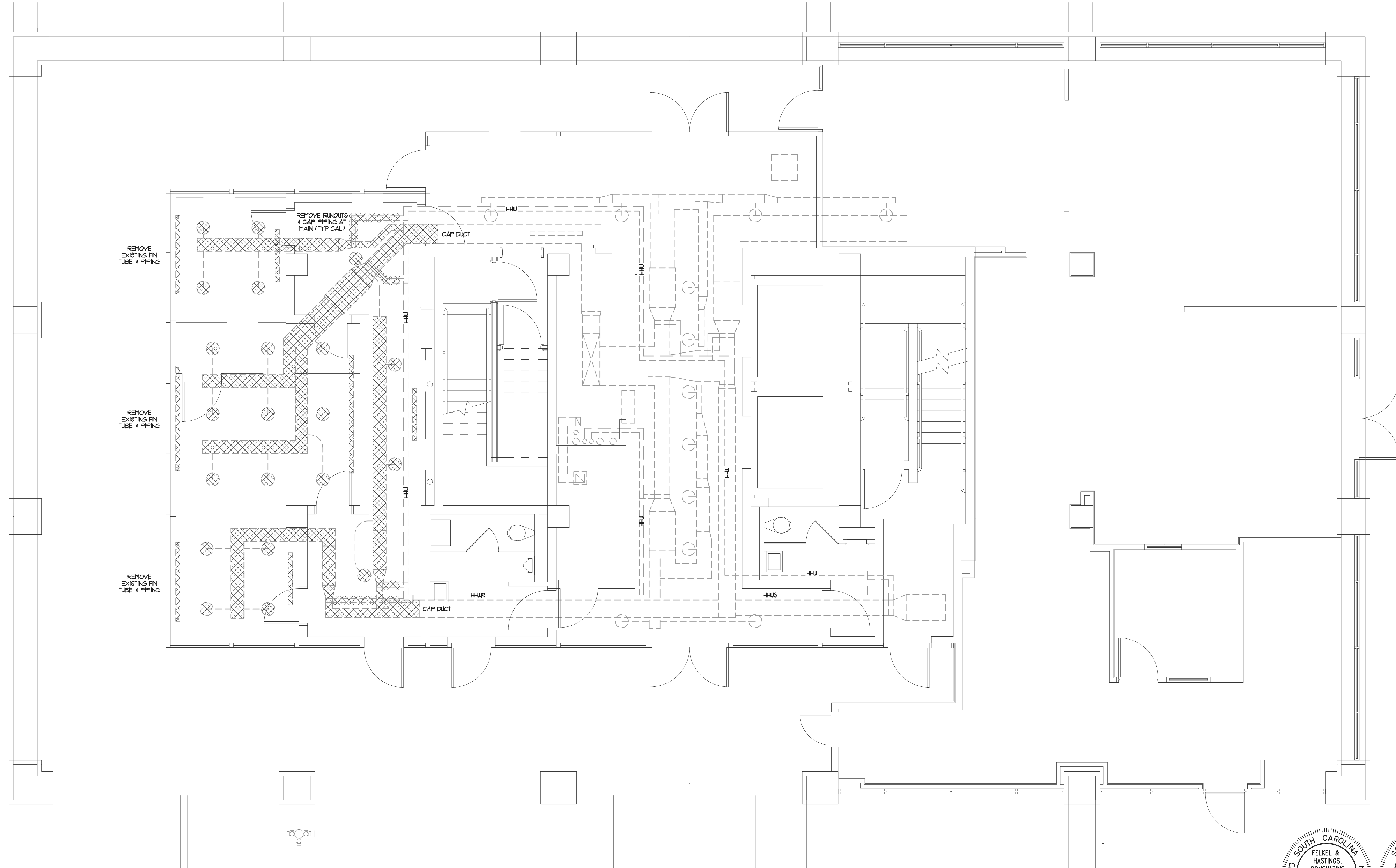
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HVAC DEMOLITION LEGEND

-  EXISTING EQUIPMENT, DUCTWORK AND DIFFUSERS TO REMAIN
-  EXISTING EQUIPMENT, DUCTWORK AND DIFFUSERS TO BE REMOVED

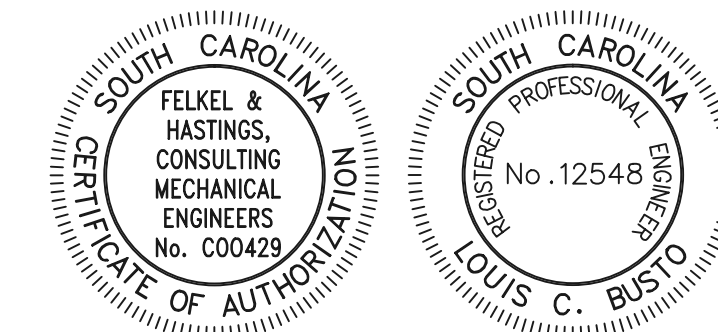
HVAC DEMOLITION NOTES

1. COORDINATE PHASING OF ALL DEMOLITION AND NEW WORK, ALONG WITH ANY SHUT DOWNS REQUIRED FOR SYSTEM CHANGE OVER, WITH THE OWNER.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL HVAC EQUIPMENT, ETC. TO BE REMOVED AFTER FIRST ALLOWING THE OWNER THE OPPORTUNITY TO KEEP ANY ITEMS HE CHOOSES.
3. REMOVE ALL EXISTING HVAC EQUIPMENT, DUCTWORK, PIPING, GRILLES, CONTROLS, ETC AS INDICATED ON THE DEMOLITION PLAN.
4. PATCH ALL HOLES IN EXISTING DUCTWORK THAT IS TO REMAIN.
5. COORDINATE PATCHING OF THE REMAINING FLOOR AND WALL OPENINGS WITH THE GENERAL CONTRACTOR.
6. DEMOLITION PLANS ARE BASED ON "AS-BUILT" PRINTS, SOME FIELD DISCREPANCY MAY EXIST. IF THERE IS ANY DOUBT CONCERNING THE REMOVAL OF AN ITEM SHOWN OR NOT SHOWN ON THESE PLANS, THE CONTRACTOR IS TO CONSULT THE ENGINEER PRIOR TO REMOVAL.



HVAC DEMOLITION PLAN

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



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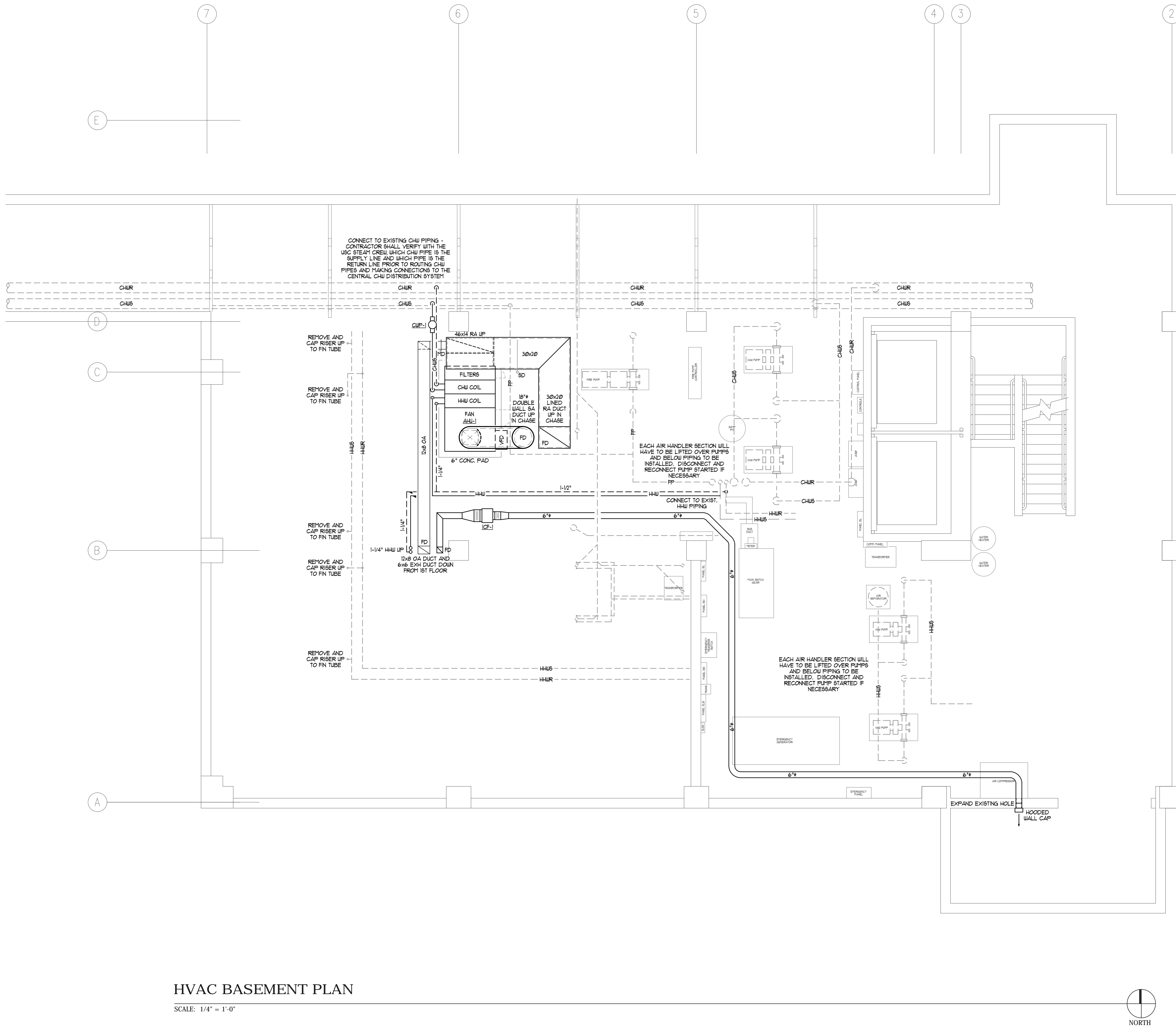
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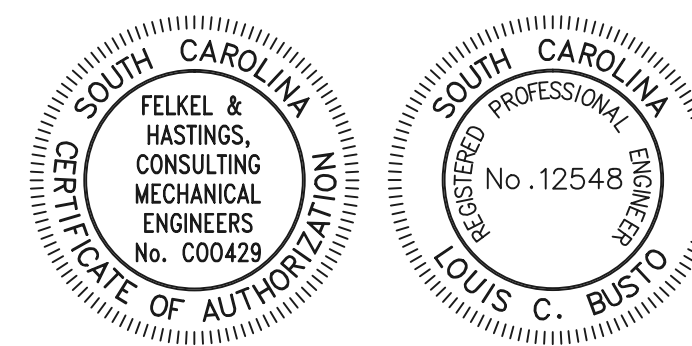
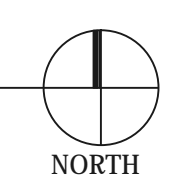
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HVAC BASEMENT PLAN

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



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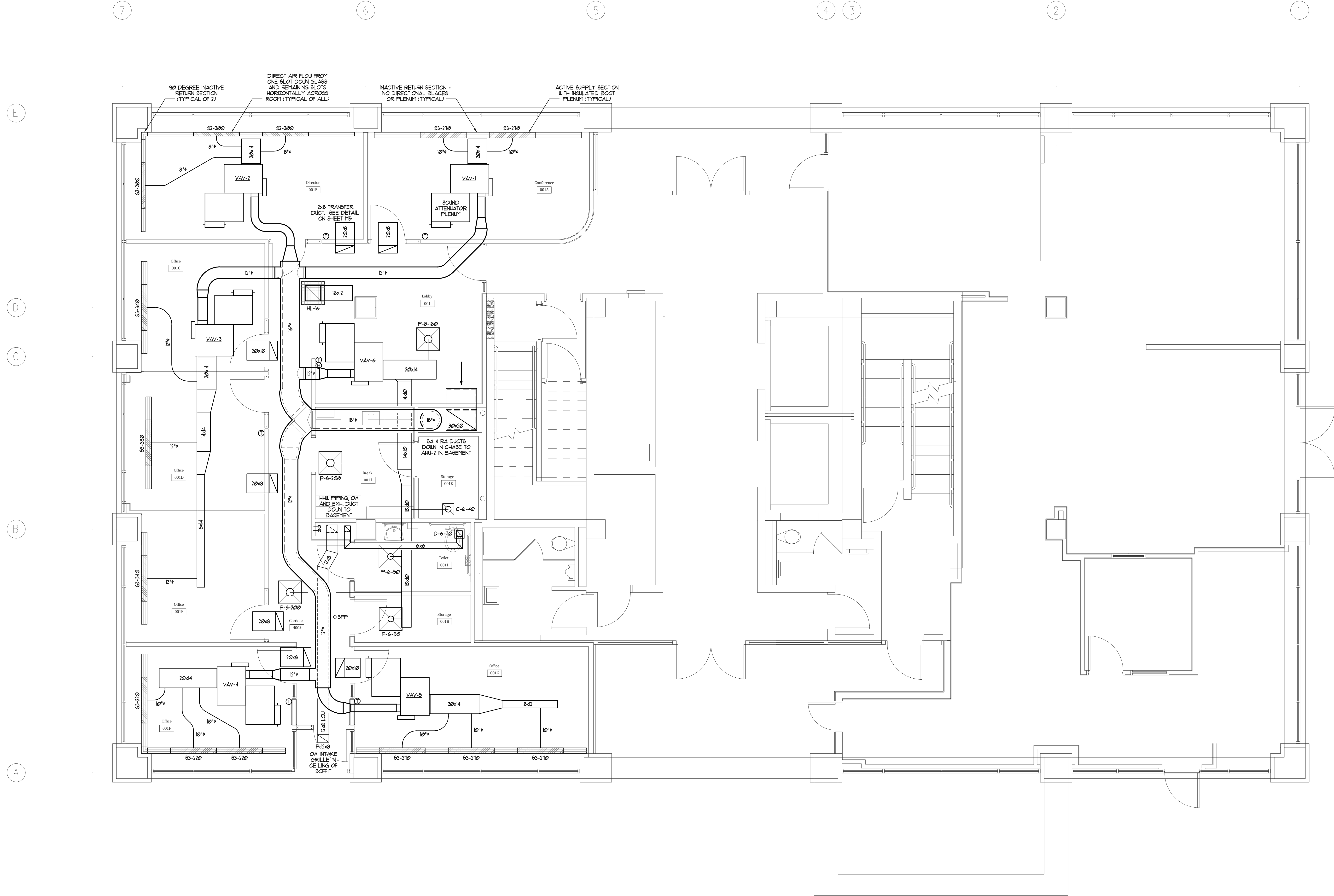
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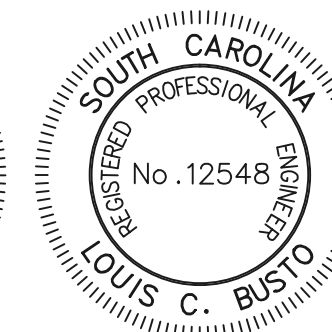
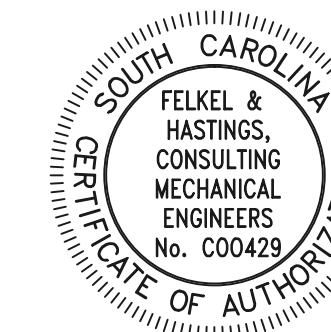
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HVAC FLOOR PLAN - DUCTWORK

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



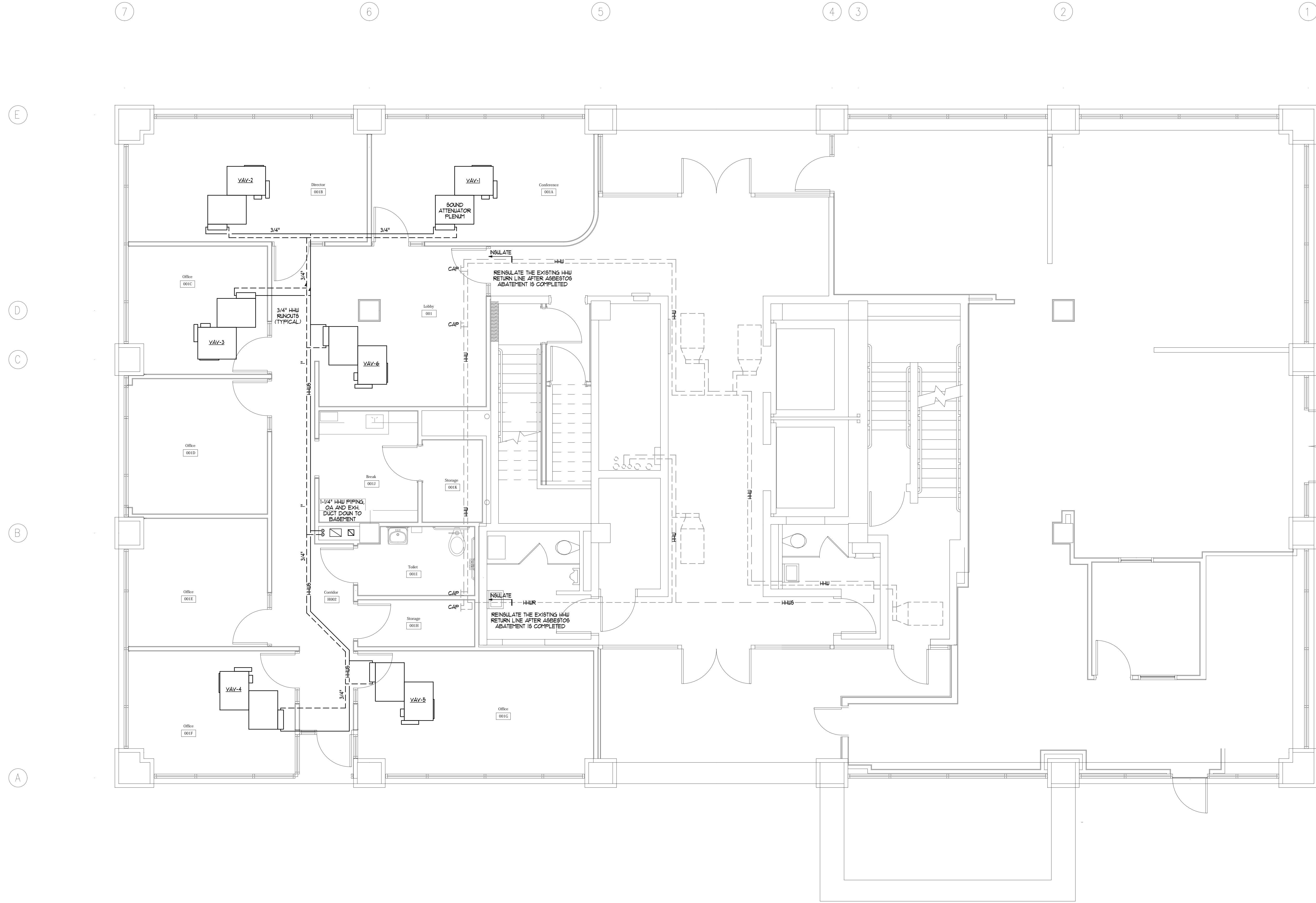
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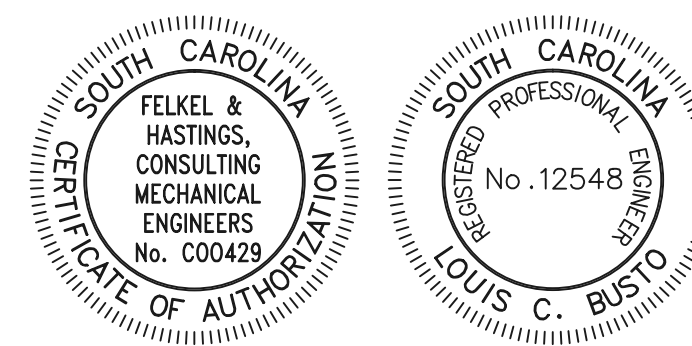
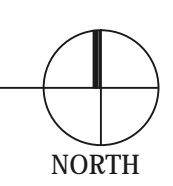
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HVAC FLOOR PLAN - PIPING

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



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CENTRAL STATION AIR HANDLER SCHEDULE

Table with columns for SYMBOL, SPACES SERVED, UNIT LOCATION, MFR., MODEL NO., TYPE, VOLTAGE, FAN, COOLING COIL DATA, HEATING COIL DATA, and REMARKS. Includes notes for unit requirements.

HVAC GENERAL NOTES

- 1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES...
2. COORDINATE WITH THE GENERAL CONTRACTOR THE EXACT LOCATION OF ALL WALL AND FLOOR PENETRATIONS...
3. ALL OPEN ENDED DUCTS SHALL BE REINFORCED WITH 1-1/2" x 1-1/2" x 1/8" GALVANIZED STEEL ANGLES BOLTED OR RIVETED 6" ON CENTER (MAX.)...
4. FLEXIBLE DUCT RUNOUTS TO CEILING DIFFUSERS SHALL BE FREE OF SAGS AND KINKS...
5. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS...
6. VERIFY ALL THERMOSTAT AND FAN SWITCH LOCATIONS WITH THE ARCHITECT...
7. ROUTE ALL CONDENSATE LINES TO THE NEAREST FLOOR DRAIN...
8. ALL 2x2 DIFFUSERS SHALL HAVE 4-WAY AIR FLOW PATTERNS...
9. MOUNT ALL THERMOSTATS 4'-0" ABOVE FINISHED FLOOR...
10. USE SPIN-IN AND TWIST LOCK FITTINGS WITH QUADRANT AND EXTRACTOR IN ALL ROUND DUCT TAKE-OFFS FROM RECTANGULAR DUCTWORK...
11. ALL FIRE DAMPERS SHALL BE RATED TO COMPLY WITH THE INTERNATIONAL MECHANICAL CODE...
12. IF EQUIPMENT TO BE SUPPLIED BY CONTRACTOR IS DIFFERENT THAN THAT SPECIFIED IN PLANS OR SPECIFICATION...
13. REFER TO THE EQUIPMENT SCHEDULES FOR UNITS THAT REQUIRE DUCT MOUNTED SMOKE DETECTORS...
14. COORDINATE VOLTAGE OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE SUBMITTING SHOP DRAWINGS...
15. THE VENTILATION RATE PROCEDURE HAS BEEN USED TO ASSIGN ACCEPTABLE INDOOR AIR QUALITY PER ASHRAE 62-2007...
16. MAINTAIN 4 FEET BETWEEN MEDIUM PRESSURE TAKE-OFFS FROM MAIN DUCT TO VAV BOX.

HVAC LEGEND

- UNDERCUT DOOR 3/4"
CARBON DIOXIDE (CO2) SENSOR
HUMIDITY SENSOR OR HUMIDISTAT WALL SWITCH
THERMOSTAT
REMOTE TEMPERATURE SENSOR
OCCUPANCY SENSOR
IN-LINE CABINET FAN NO. 1
IN-LINE CHILLED WATER PUMP NO. 1
FAN POWERED VAV BOX NO. 1
WALL EXHAUST FAN NO. 1
AIR HANDLING UNIT NO. 1
FIRE PROTECTION
CONDENSATE DRAIN LINE
CHILLED WATER SUPPLY AND RETURN LINES
HEATING WATER SUPPLY AND RETURN LINES
MANUAL DAMPER (MD)
TYPE "C" GRILLE (SEE SCHEDULE)
6" ROUND NECK
60 CFM
MOTOR OPERATED DAMPER (MOD)
DUCT MOUNTED SMOKE DETECTOR (SD)
FIRE DAMPER (FD)
COMBINATION FIRE/SMOKE DAMPER (FSD)
RADIATION DAMPER
SQUARE TO ROUND TRANSITION
ROUND FLEXIBLE DUCTWORK
90 DEGREE ELBOW WITH TURNING VANES
CEILING OR WALL ACCESS DOOR
STATIC PRESSURE PROBE (SPP)
EXISTING DUCTWORK, PIPING OR EQUIPMENT TO REMAIN
NEW DUCTWORK, PIPING OR EQUIPMENT BY CONTRACTOR

FAN-POWERED VAV BOX SCHEDULE (HOT WATER COIL)

Table with columns for SYMBOL, MFR., MODEL NO., TYPE, AIR VALVE (CFM), AVAILABLE INLET SP, AIR INLET SIZE (IN), FAN, HOT WATER COIL, RUNOUT SIZE, CONTROL VALVE SIZE, CONTROL VALVE CV, and REMARKS.

- 1. PROVIDE WITH SOUND ATTENUATOR PLENUM.
2. PROVIDE WITH DISCONNECT.
3. PROVIDE BOTTOM ACCESS PANEL.
4. PROVIDE WITH PSC FAN MOTOR AND SCR SPEED CONTROL DEVICE.
5. DDC CONTROLLER (BY CONTROLS CONTRACTOR) SHALL BE FACTORY MOUNTED.
6. PROVIDE WITH CONTROL VOLTAGE TRANSFORMER.
7. PROVIDE WITH 1" DOUBLE WALL INSULATION.

VENTILATING EQUIPMENT SCHEDULE

Table with columns for SYMBOL, MFR., MODEL NO., FAN, MOTOR, CAPACITY, SPACES SERVED, TYPE FAN, CONTROLS, WEIGHT (LBS), and REMARKS.

- 1. FURNISH WITH DISCONNECT.
2. FURNISH WITH BACKRAFT DAMPER.
3. FURNISH WITH HANGING VIBRATION ISOLATORS.
4. FURNISH WITH HOODED WALL CAP.

CENTRIFUGAL PUMP SCHEDULE

Table with columns for SYMBOL, MFR., MODEL NO., EQUIPMENT SERVED, LOCATION, PUMP SERVICE, PUMP DATA, MOTOR, TYPE COUPLING, TYPE PUMP, and REMARKS.

- 1. FURNISH WITH STARTER.
2. SELF SUPPORTED WITH PIPING.

AIR DISTRIBUTION SCHEDULE

Table with columns for SYMBOL, MOUNTING, MFR., MODEL NO., FRAME SIZE (IN), FACE TYPE, NECK, FINISH (FACE/INT), USE, MATERIAL, and REMARKS.

- 1. FURNISH WITH OPPOSED BLADE DAMPER.
2. FURNISH WITH SQUARE TO ROUND NECK ADAPTER.
3. FURNISH WITH PLASTER FRAME.
4. PAINT IN FIELD TO MATCH COLOR OF WALL/DOOR (COLOR AS SELECTED BY THE ARCH.)
5. FURNISH WITH BALANCING DAMPER.
6. FURNISH WITH INSULATED BOOT PLENUM FOR ACTIVE SECTIONS.
7. FURNISH WITH CORNER PIECES AS INDICATED ON THE FLOOR PLANS.
8. REFER TO FLOOR PLANS FOR TOTAL LENGTH OF SLOT DIFFUSER.

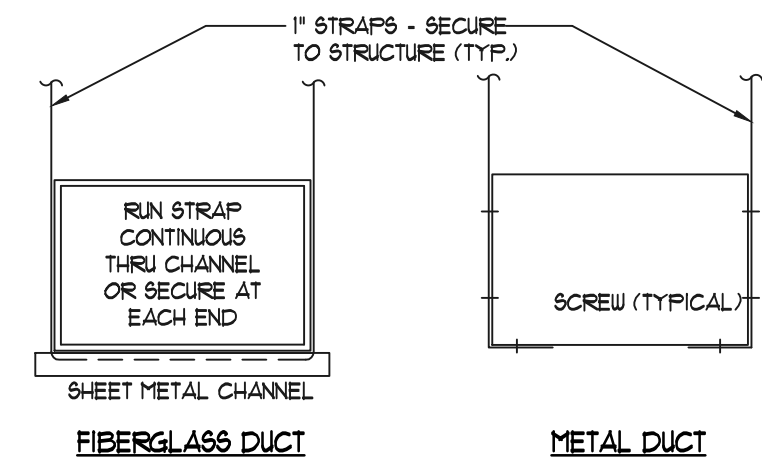
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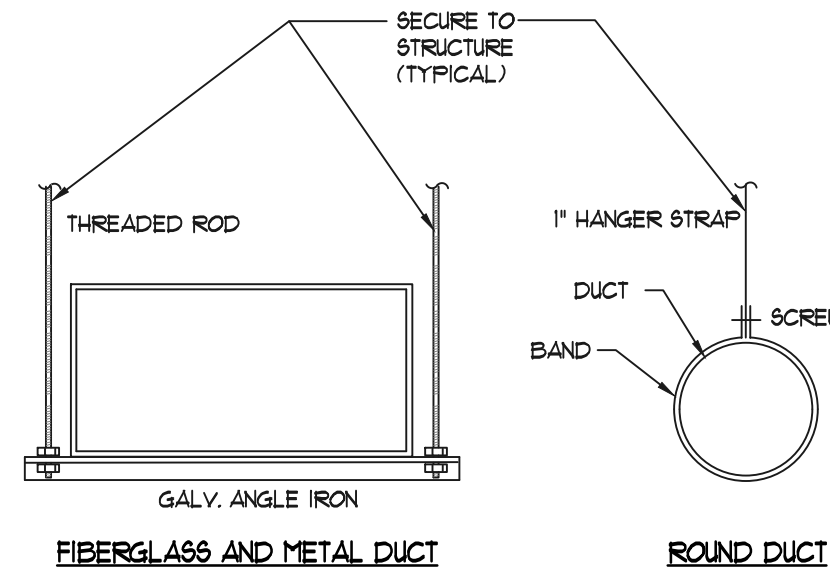
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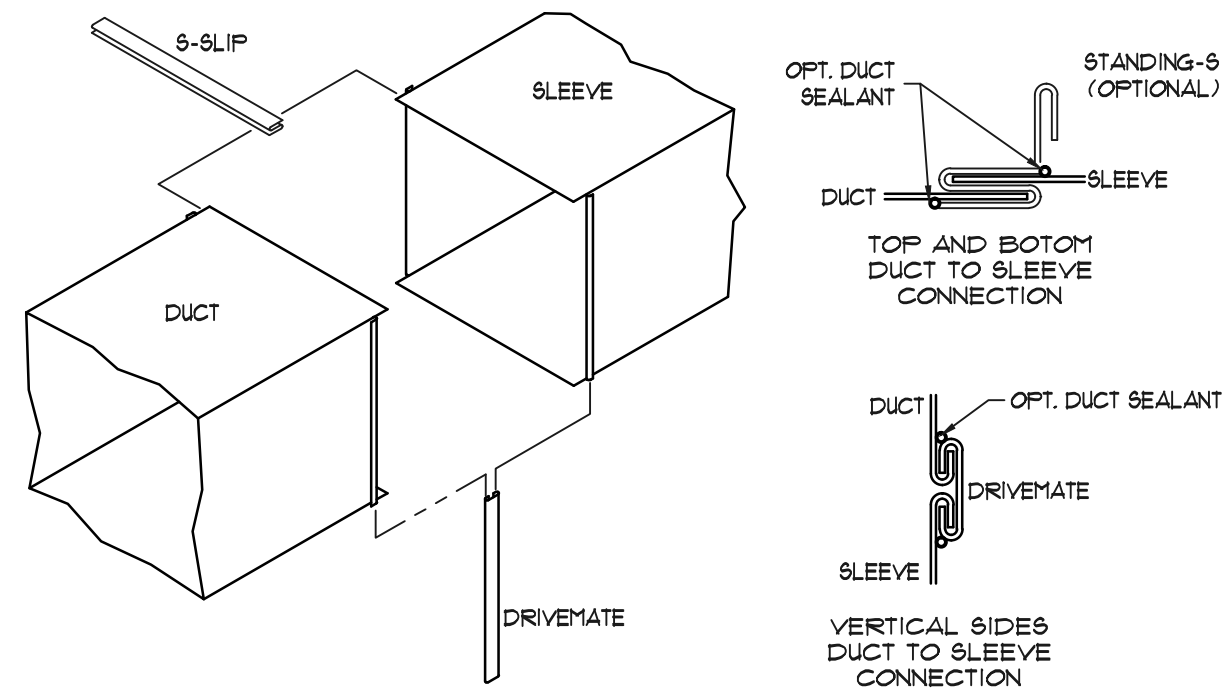
DUCTS UP TO 24" WIDTH



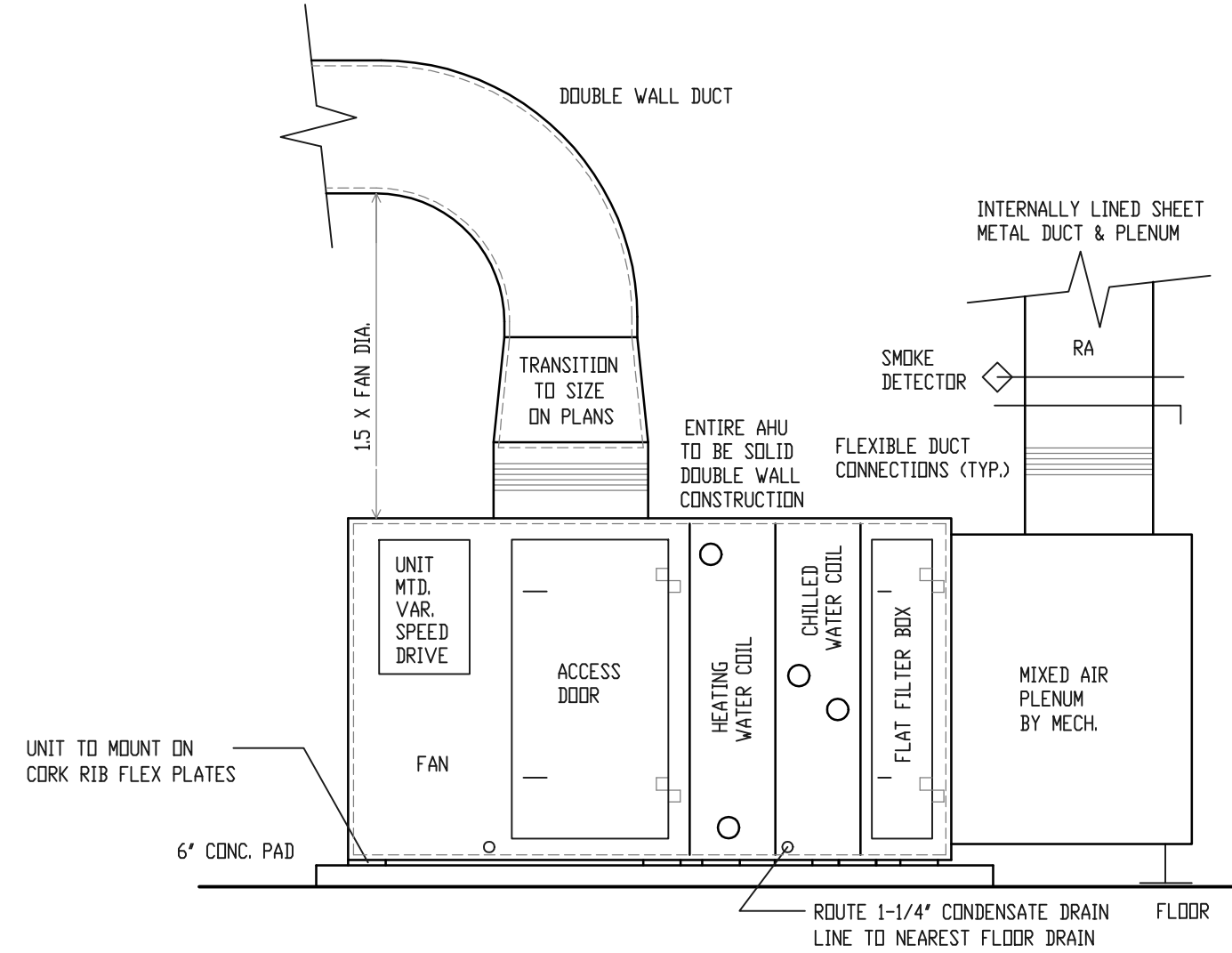
GREATER THAN 24" WIDTH

SEE SPECIFICATIONS TO DETERMINE IF AND WHEN FIBERGLASS DUCTWORK IS ALLOWED

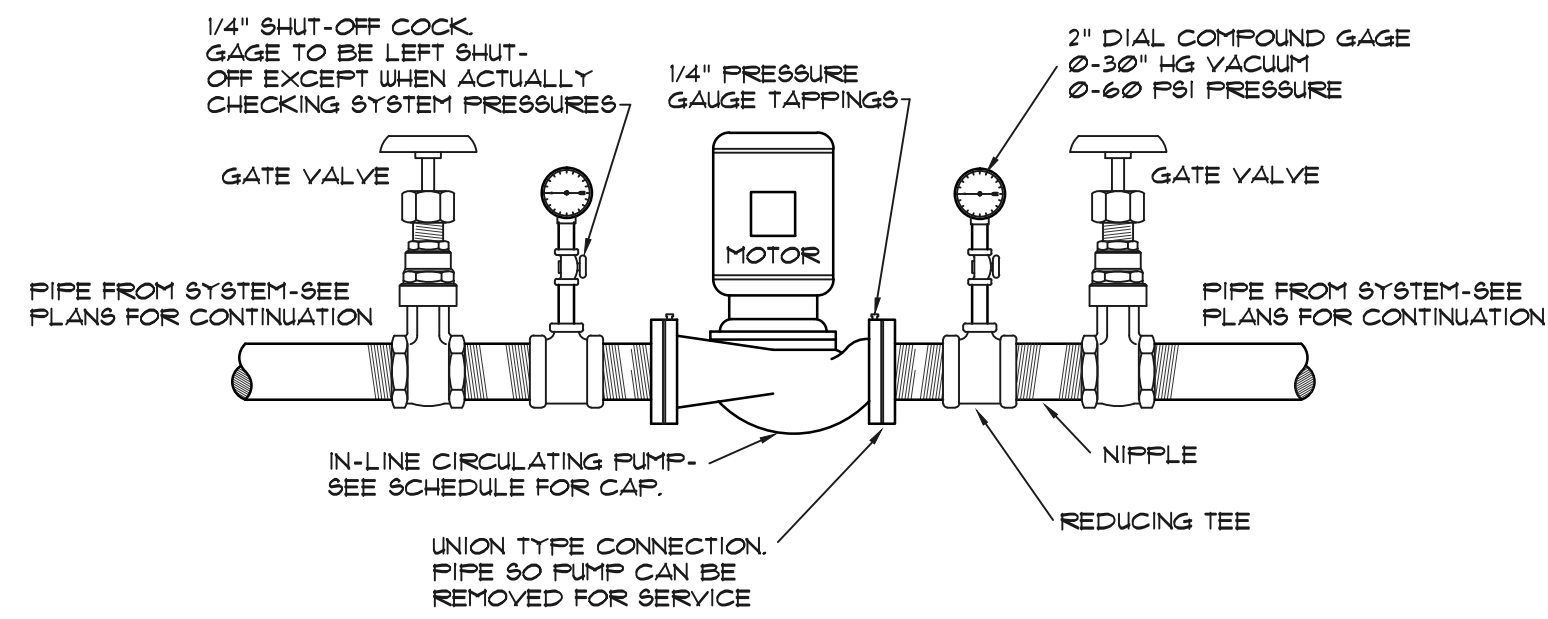
LOW PRESSURE DUCTWORK HANGER DETAIL NOT TO SCALE



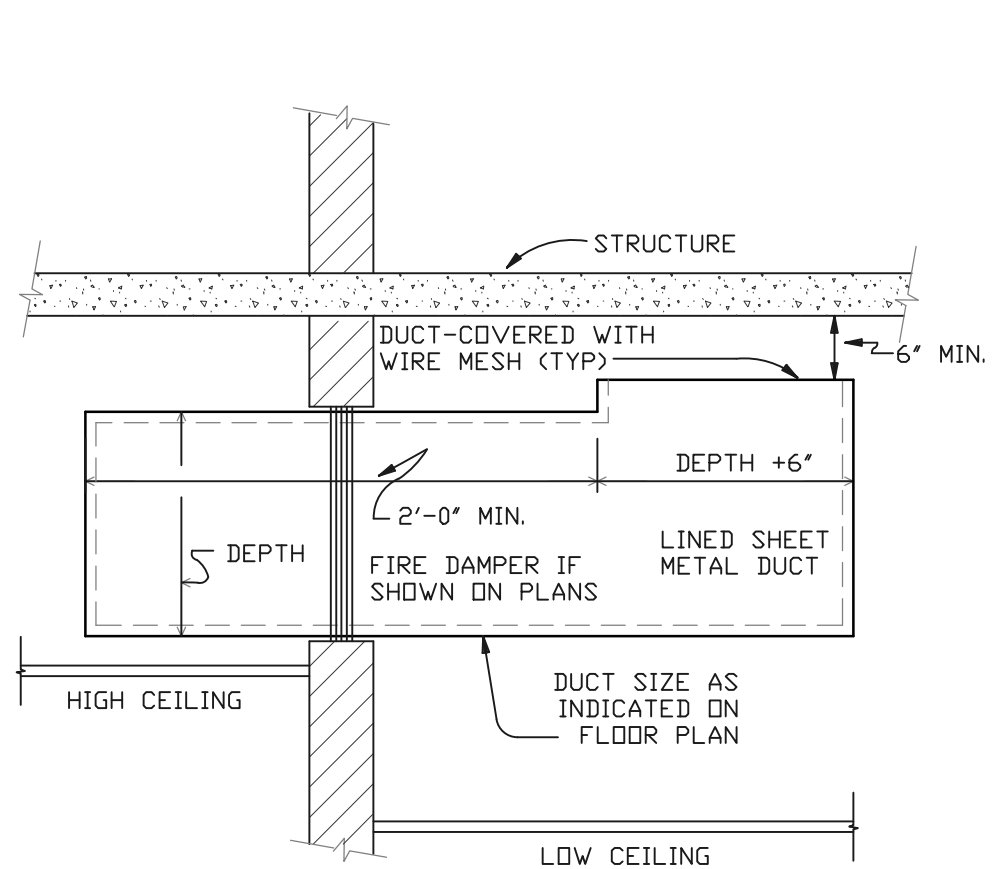
SLIP & DRIVE DUCT CONNECTION DETAIL NOT TO SCALE



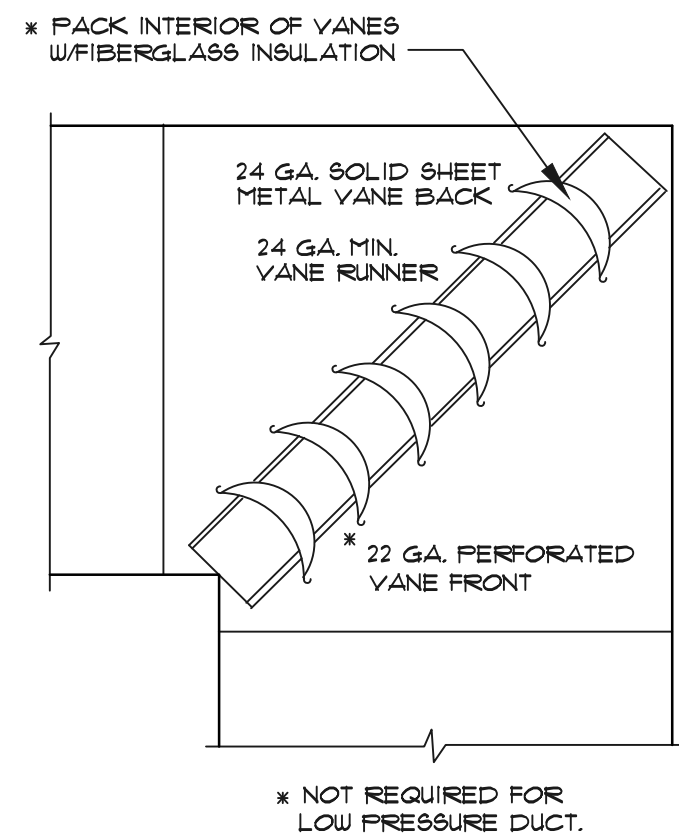
AIR HANDLING UNIT INSTALLATION DETAIL NOT TO SCALE



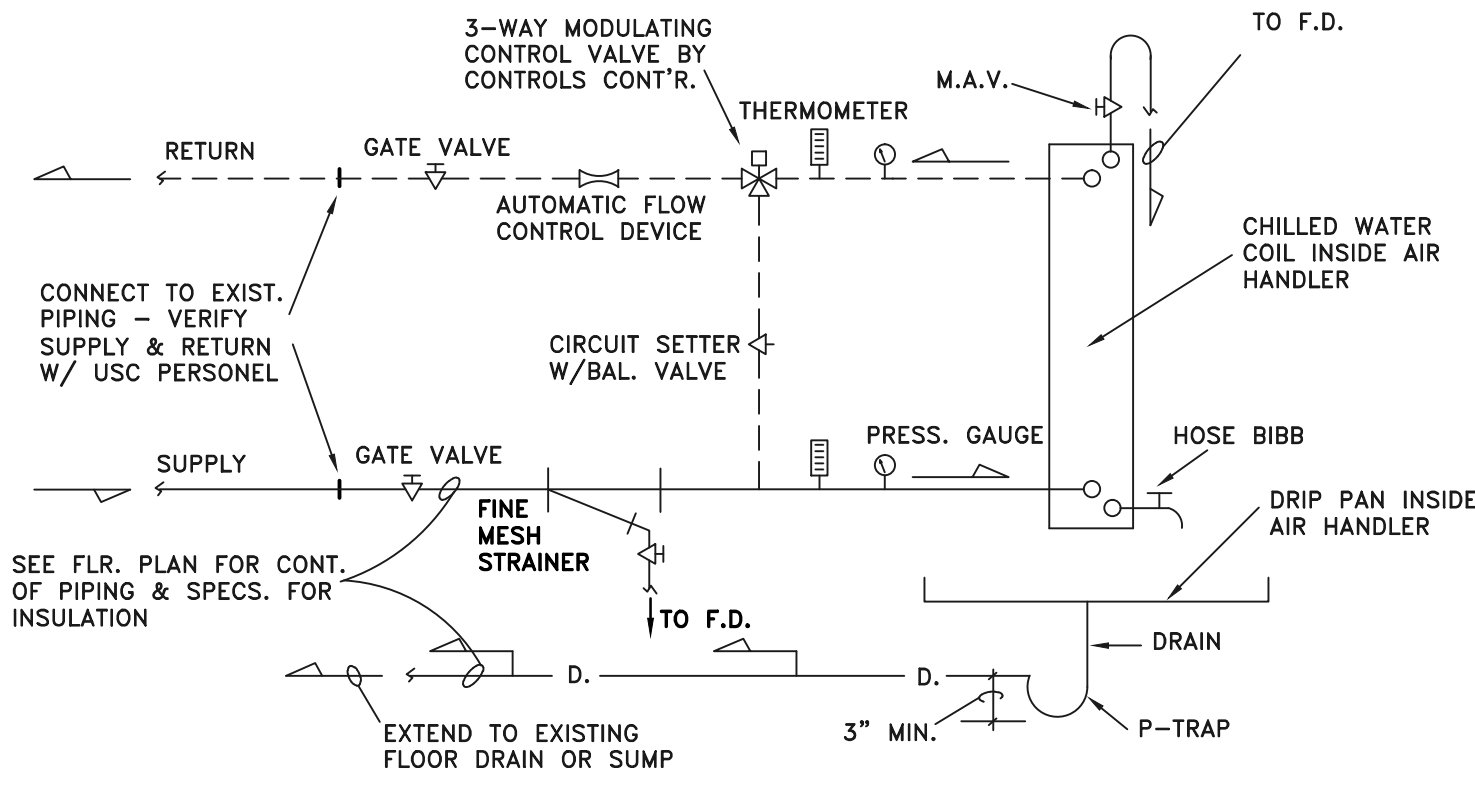
IN-LINE CIRCULATING PUMP DETAIL NOT TO SCALE



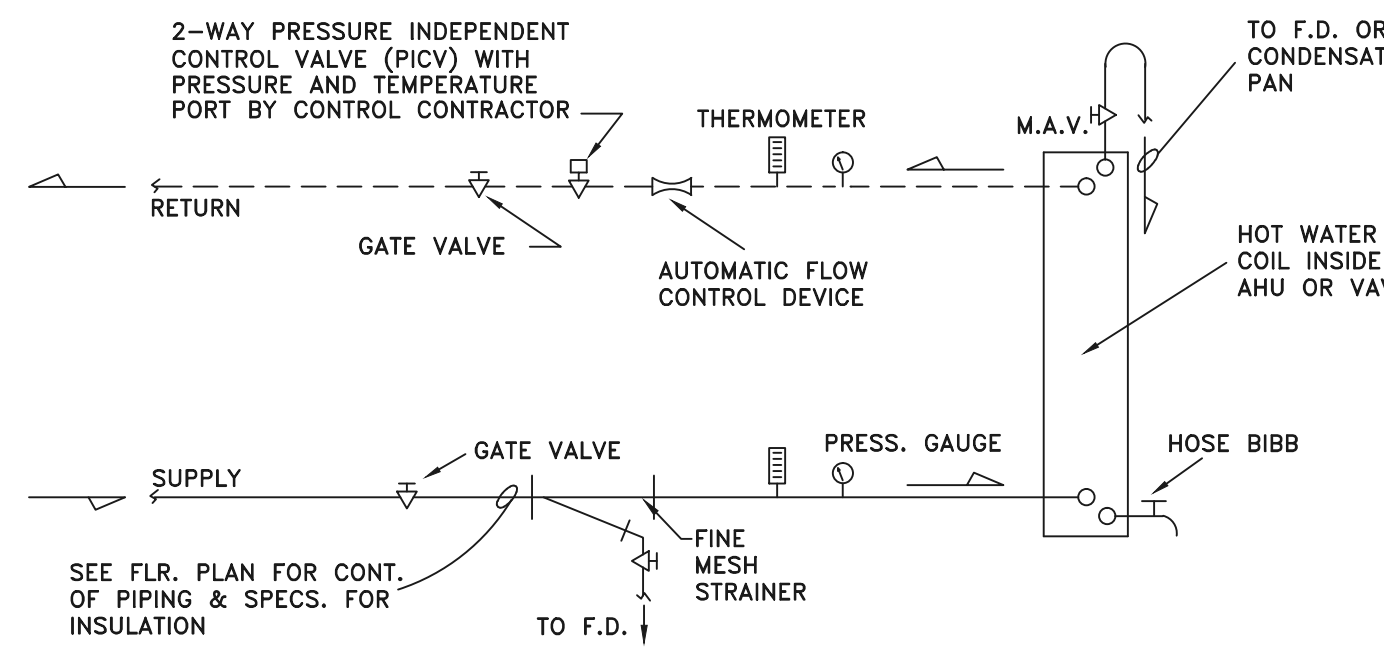
TRANSFER DUCT DETAIL NOT TO SCALE



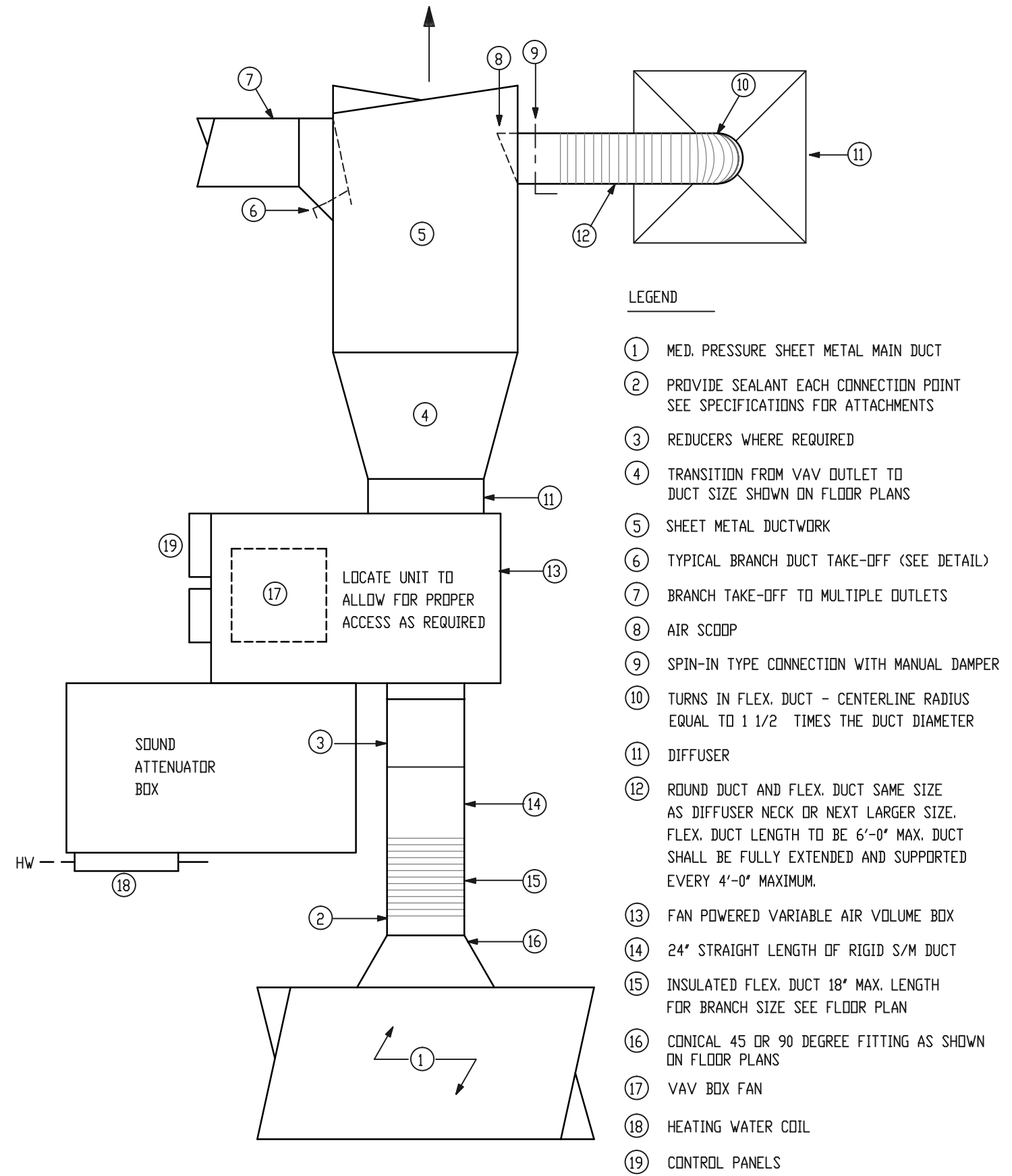
ACOUSTICAL TURNING VANE DETAIL NOT TO SCALE



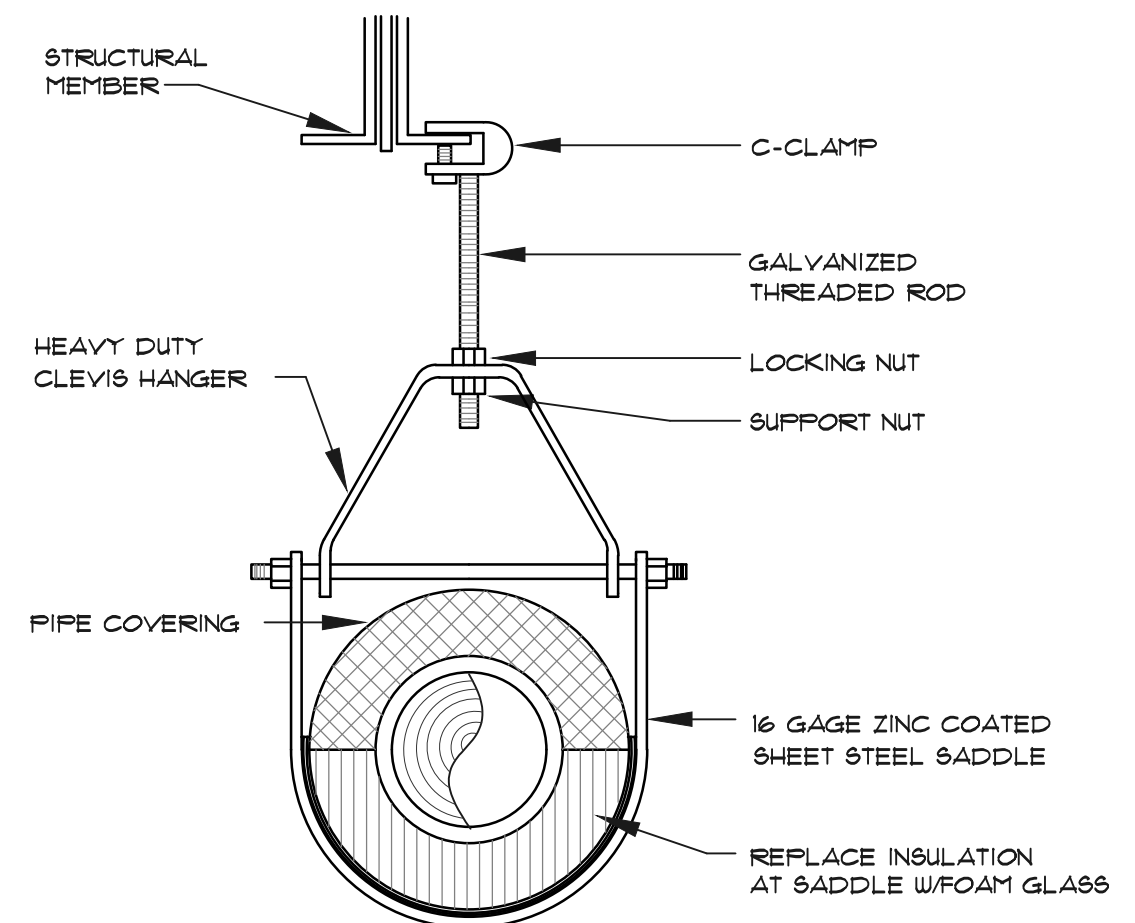
CHILLED WATER COIL PIPING DETAIL NOT TO SCALE



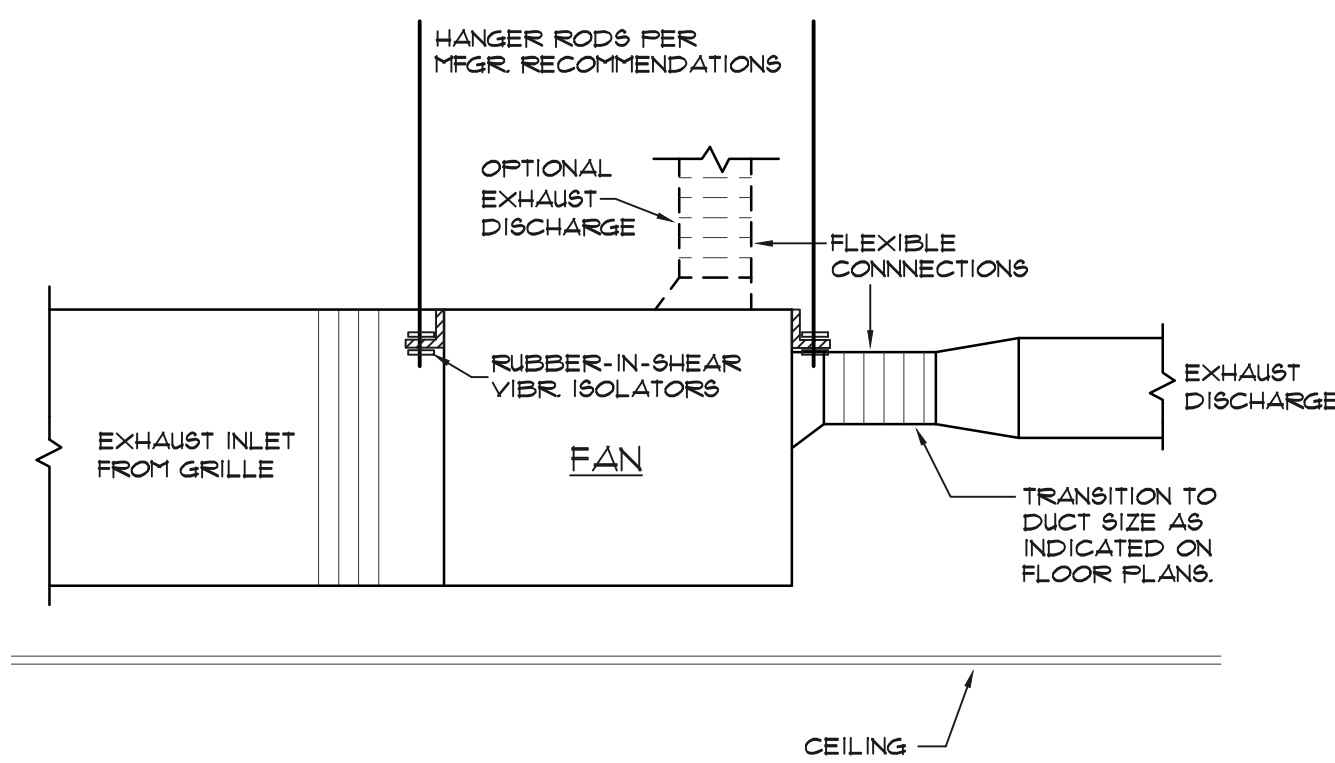
HOT WATER COIL PIPING DETAIL NOT TO SCALE



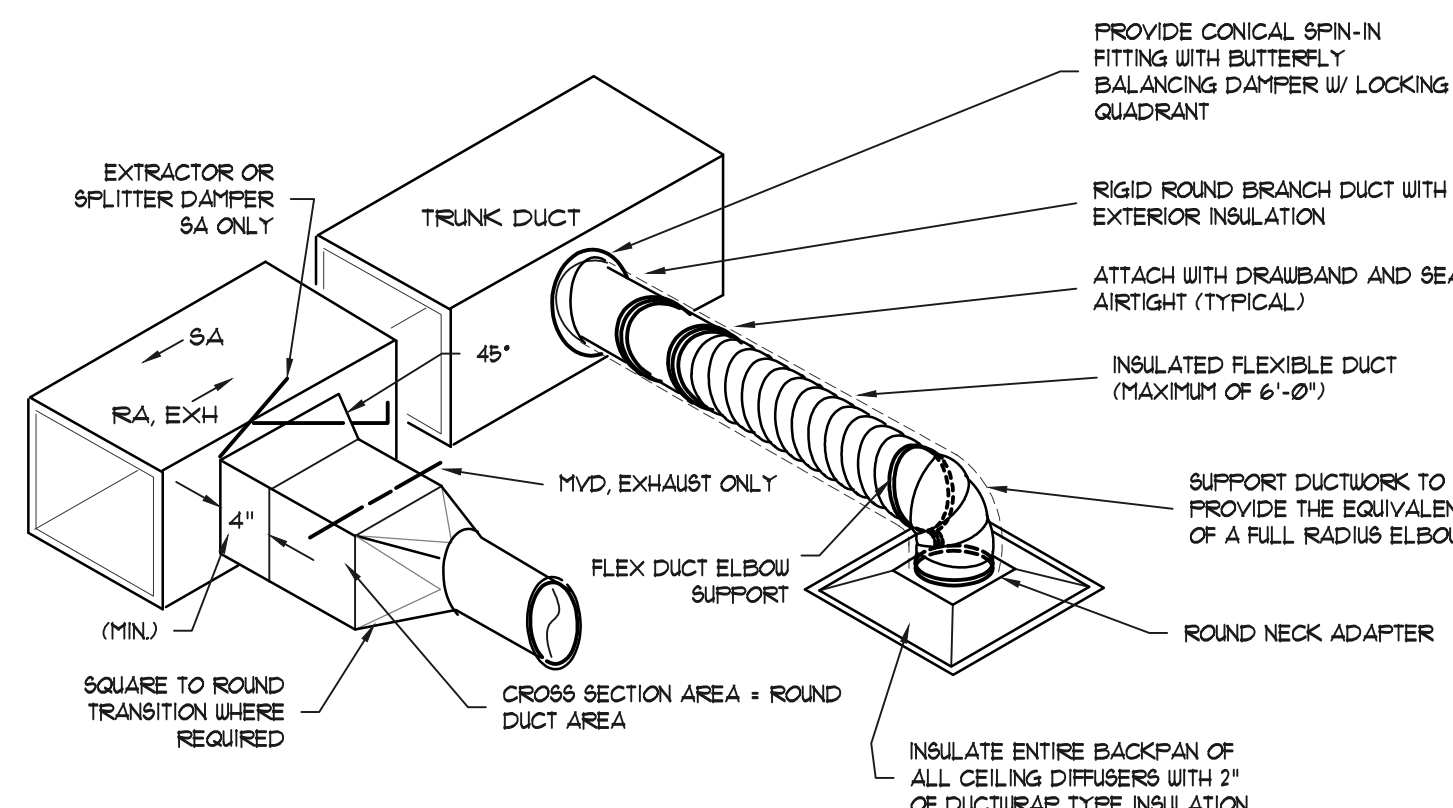
TYPICAL VAV BOX DETAIL NOT TO SCALE



PIPE HANGER DETAIL NOT TO SCALE



INLINE CABINET FAN DETAIL NOT TO SCALE



DUCT TAKE-OFF DETAIL NOT TO SCALE

- LEGEND**
- 1 SLEEVE TO EXTEND 3 INCHES BEYOND EACH SIDE OF PARTITION.
 - 2 FIRE DAMPER FRAME ATTACHED TO SLEEVE BY DAMPER MANUFACTURER.
 - 3 "S" DUCT CONNECTION -- NOT SCREWED OR BOLTED TO SLEEVE.
 - 4 ACCESS PANEL PREFERABLY IN HORIZONTAL PLANE AND WITHIN REACH OF FUSIBLE LINK. LABEL PANEL IN 0.5" LETTERING "FIRE DAMPER"
 - 5 OPENING TO BE 1/8 INCH WIDER FOR EACH FOOT OF SLEEVE WIDTH AND 1/8 INCH HIGHER FOR EACH FOOT OF SLEEVE HEIGHT.
 - 6 STANDARD FRAME FIRE PARTITION WITH FIRE RATED LINING MATERIAL. LINING NOT REQUIRED AT CONCRETE OR MASONRY.
 - 7 ANGLES ALL AROUND SLEEVE ON BOTH SIDES OF PARTITION. WELDED OR BOLTED TO SLEEVE WITH 1 INCH FILLETS AT 5 INCHES O.C. MAXIMUM OR 1/4 INCH BOLTS AT 5 INCHES O.C. MAXIMUM. ANGLES ARE NOT ATTACHED TO WALL TO PROVIDE FOR EXPANSION. IN NO CASE SHALL ANGLE OVERLAP WALL FRAMING LESS THAN 1 INCH. SEE MANUFACTURER'S APPROVAL FOR SIZE AND GAGE OF ANGLE. CAULK AROUND ALL ANGLES WITH FIRE CAULKING AS APPROVED BY THE OFFICE OF SCHOOL FACILITIES OR LOCAL BUILDING OFFICIAL.
 - 8 FUSEABLE LINK
 - 9 DAMPER BLADES OUT OF AIR STREAM

FIRE DAMPER INSTALLATION DETAIL SHEET METAL DUCTWORK NOT TO SCALE

Job Number: 1108
 Drawn by: lcb
 File name:
 Plotted on:
 Drawing date: 3/30/12

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Welsh Humanities Building Ground Floor Renovation
USC - Columbia Campus
 Project No H27-1976
 Columbia, S. C.

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 2725 Cypress Street
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 Comm. No.: 11-44 Date: 04-11-12

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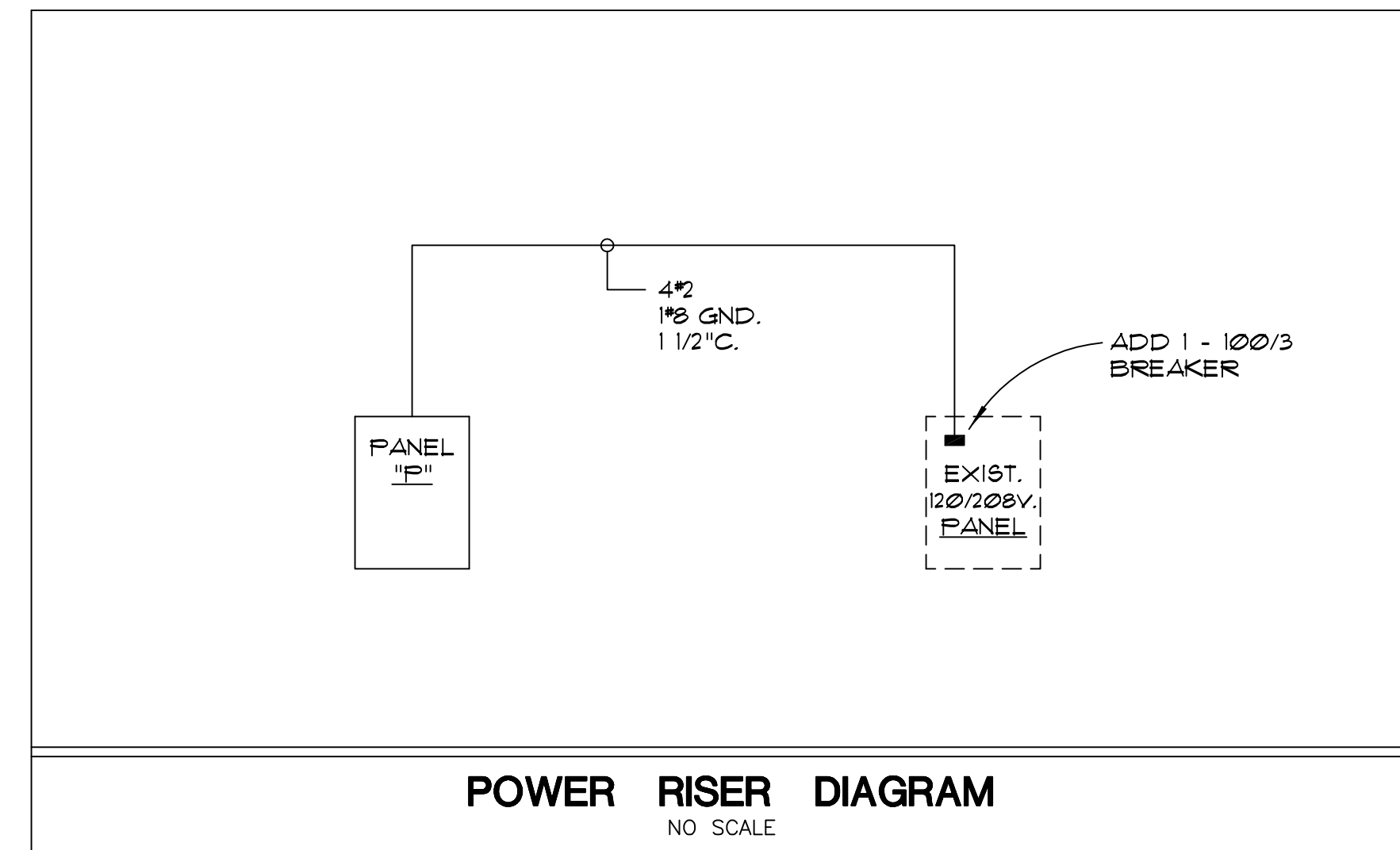
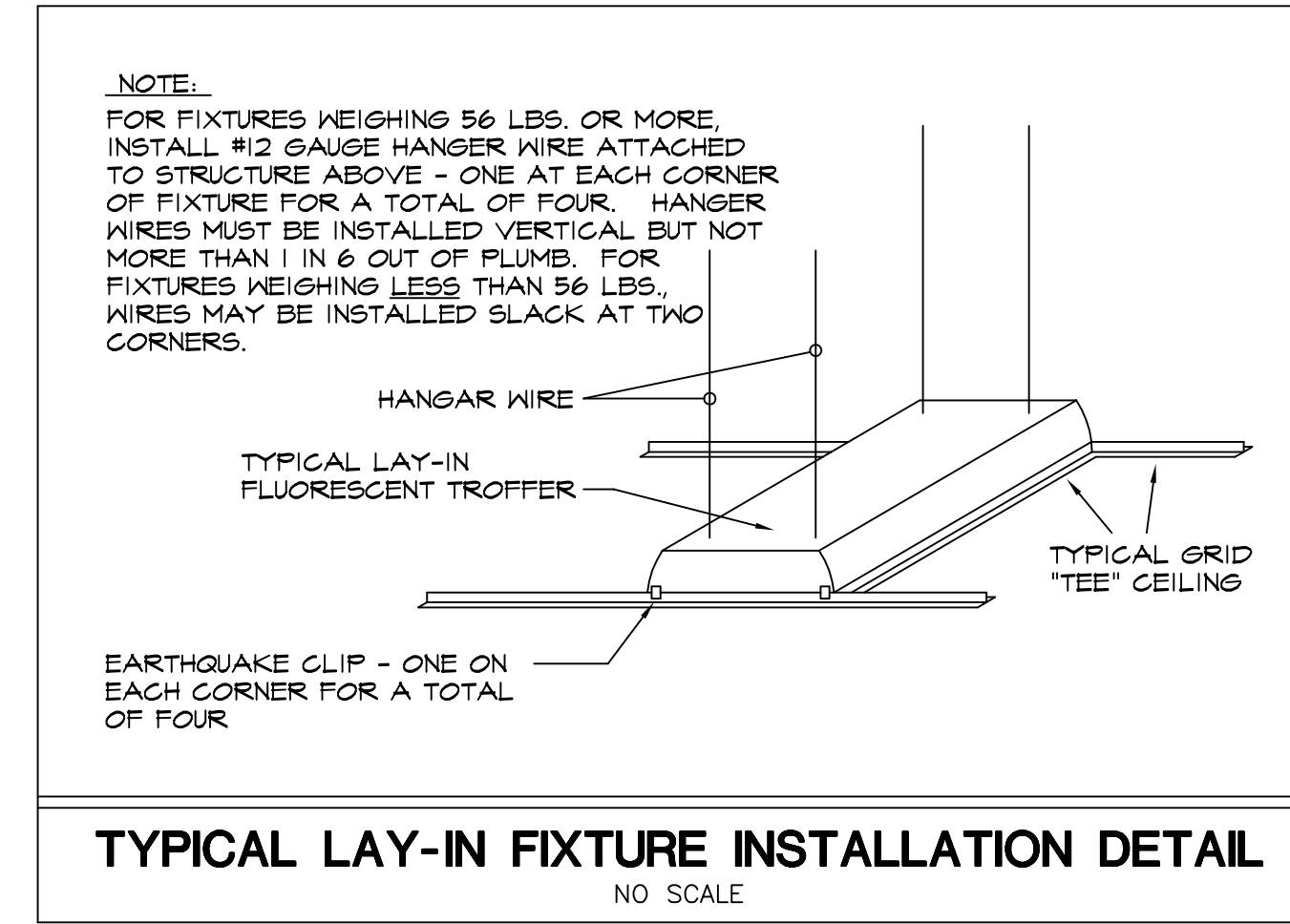
ELECTRICAL SYMBOLS	
SYMBOL	DESCRIPTION
	EXTERIOR EMERGENCY EGRESS LIGHTING FIXTURE
	RECESSED FLUORESCENT, INCANDESCENT OR H.I.D. LIGHTING FIXTURE
	WALL-MOUNTED FLUORESCENT LIGHTING FIXTURE
	SURFACE-MOUNTED FLUORESCENT LIGHTING FIXTURE
	PENDENT-MOUNTED FLUORESCENT LIGHTING FIXTURE
	RECESSED FLUORESCENT LIGHTING FIXTURE
	TRACK LIGHTING FIXTURE
	FLUSH-MOUNTED EMERGENCY BATTERY FIXTURE
	CEILING-MOUNTED EXIT LIGHT
	COOPER #AH121 20-AMP SINGLE-POLE SWITCH INSTALLED 42" UP - COLOR AS SELECTED BY THE ARCHITECT
	MOTION WALL SWITCH, COOPER #OSW DT 0601 MV V
	MOTION WALL SWITCH FOR TWO-LEVEL LIGHTING, COOPER #ONW D 1001 DMV.
	WALL DIMMER FOR LED DOWNLIGHTS, SIZED TO LOAD, 2TT-VOLT.
	COOPER #5552 20-AMP 125-VOLT DUPLEX RECEPTACLE INSTALLED 18" UP UNLESS OTHERWISE NOTED - COLOR AS SELECTED BY THE ARCHITECT
	COOPER #5552 20-AMP 125-VOLT DUPLEX RECEPTACLE INSTALLED ABOVE THE COUNTER (SEE ARCHITECTURAL DETAILS OF CASEWORK) - COLOR AS SELECTED BY THE ARCHITECT
	COOPER #VGF20 20-AMP 125-VOLT G.F.I. DUPLEX RECEPTACLE INSTALLED ABOVE COUNTER (SEE ARCHITECTURAL DETAILS OF CASEWORK) - COLOR AS SELECTED BY THE ARCHITECT
	FLOOR BOX FLUSH IN FLOOR WITH "FLIP" COVER, FBS #FMC47, FURNISH WITH TWO DUPLEX RECEPTACLES AND ONE TELEPHONE/DATA OUTLET. NOTE THAT SYMBOL FOR SAME ASSEMBLY MAY BE SHOWN ON BOTH POWER AND COMMUNICATIONS PLANS.
	EXHAUST FAN BY MECHANICAL CONTRACTOR
	AIR HANDLER BY MECHANICAL CONTRACTOR
	PUMP BY PLUMBING CONTRACTOR
	FAN SWITCH
	PANELBOARD
	BRANCH CIRCUIT RACEWAY RUN IN WALL OR ABOVE CEILING. ARROWHEAD DENOTES RUN TO PANELBOARD. CROSSLINES DENOTE NUMBER OF #12 PHASE OR NEUTRAL CONDUCTORS. INSTALL CODE SIZE GROUNDING CONDUCTOR IN ADDITION TO CONDUCTORS SHOWN. SUBSCRIPT DENOTES CIRCUIT NUMBER.
	SAME AS NEXT ABOVE - ADDITIONAL SUBSCRIPT DENOTES CONDUCTOR SIZE
	BRANCH CIRCUIT RACEWAY RUN UNDERFLOOR. ARROWHEAD DENOTES RUN TO PANELBOARD. CROSSLINES DENOTE NUMBER OF #12 PHASE OR NEUTRAL CONDUCTORS. INSTALL CODE SIZE GROUNDING CONDUCTOR IN ADDITION TO CONDUCTORS SHOWN. SUBSCRIPT DENOTES CIRCUIT NUMBER.
	SAME AS NEXT ABOVE - ADDITIONAL SUBSCRIPT DENOTES CONDUCTOR SIZE
	VOICE/DATA OUTLET INSTALLED 18" UP WITH 3/4" CONDUIT TO ABOVE CEILING
	FIRE ALARM MANUAL STATION INSTALLED 42" UP
	AUDIBLE AND VISUAL FIRE ALARM INSTALLED 80" UP
	FIRE ALARM RACEWAY WITH REPORTING CIRCUITS
	DUCT SMOKE DETECTOR FURNISHED BY THE ELECTRICAL CONTRACTOR, INSTALLED IN DUCT BY THE MECHANICAL CONTRACTOR AND WIRED INTO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING TO "SHUT-DOWN" THE UNIT SHALL BE BY THE MECHANICAL CONTRACTOR.
	VISUAL INDICATOR INSTALLED 80" UP
	SMOKE DETECTOR

GENERAL NOTES	
1.	DO NOT SCALE THESE DRAWINGS. ALL ROUGHING IN SHALL BE TAKEN FROM THE ARCHITECTURAL DRAWINGS AND DIMENSIONS.
2.	CONSULT THE MECHANICAL DRAWINGS IN DETAIL FOR THE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT BEFORE ROUGHING IN. ALL MECHANICAL EQUIPMENT SHALL BE ROUGHED IN AND WIRED ACCORDING TO THE SHOP DRAWINGS. IT IS THE INTENT OF THE WIRING SHOWN ON THESE PLANS TO GIVE A BASIS FOR BIDDING, AND ANY DEVIATIONS REQUIRED BY THE SHOP DRAWINGS SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
3.	THE DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY TO EACH OTHER AND WHAT IS CALLED FOR BY ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH.
4.	DRAWINGS INDICATE GENERALLY THE LOCATION OF EQUIPMENT AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. IF DUE TO JOB CONDITIONS IT IS FOUND NECESSARY TO CHANGE THE LOCATION OF SAME, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER AND AS APPROVED BY THE ENGINEER.
5.	ANY WORK, ELECTRICAL OR ALLIED, INSTALLED WITHOUT REGARD TO THE WORK OF OTHER CRAFTS WHICH MUST, IN THE OPINION OF THE ENGINEER, BE MOVED IN ORDER TO PERMIT THE PROPER INSTALLATION OF OTHER WORK, SHALL BE MOVED AS A PART OF THIS SECTION WITHOUT EXTRA CHARGE.
6.	REMOVE ALL EXISTING ELECTRICAL WORK MADE OBSOLETE BY NEW WORK. RACEWAY EXPOSED SHALL BE REMOVED. RACEWAY ABOVE CEILING SHALL BE REMOVED. RACEWAY UNDERFLOOR OR CONCEALED IN WALLS SHALL HAVE CONDUCTORS AND OUTLET BOXES REMOVED, AND RACEWAY ABANDONED.
7.	ALL SALVAGE SHALL REMAIN PROPERTY OF THE OWNER.

LIGHTING FIXTURE SCHEDULE		
TYPE	DESCRIPTION	LAMPS
A	COOPER #HT50TD010 MLT12 8 30 TUNVDO10 4445C06	----
B	JNO #JPL 22 WH	----
C	COOPER #N 232A UNV EM EB8	2 - 32W T8
D	COOPER #2 RD1 3 17 RP UNV EB8	3 - 17W T8
E	COOPER #6232	2 - 17W T8
F	COOPER #RD1 332 RP UNV EB8	3 - 32W T8
G	HALO #L651 TRACK WITH (2) L8059ML FL 8 30 AH	----
H	COOPER #APSP 4T81G UNV P P 24 8' ET	8 - 32W T8
XA	COOPER #LPX 10 R WH	----
XB	CONCEALITE #HL REM 100 2TT SURFACE MOUNT	----
XC	CONCEALITE #5000 T5 90 FMS	----

NOTES:
ALL INCANDESCENT LAMPS SHALL BE 130-VOLT. ALL FLUORESCENT LAMPS SHALL BE "COOL WHITE." ALL H.I.D. LAMPS SHALL BE COLOR IMPROVED AND COATED. ALL "PL" LAMPS TO BE 3500° K WITH FOUR-PIN BASE.

SPECIFICATIONS	
1 -	INSTALLATION SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE NFPA 70-2008, NEC 2002 AND IBC 2006.
2 -	APPLY AND PAY FOR ALL PERMITS.
3 -	ALL MATERIALS SHALL BE NEW WITH THE UL LABEL.
4 -	THE CONTRACTOR SHALL VISIT THE JOB SITE BEFORE SUBMITTING A BID AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
5 -	ALL WIRING SHALL BE COPPER, THW, THWN OR XHHW IN RACEWAY.
6 -	FEEDER RACEWAY SHALL BE RIGID METAL CONDUIT. BRANCH CIRCUIT RACEWAY SHALL BE EMT.
7 -	ALL BOXES SHALL BE ONE PIECE METAL.
8 -	WIRING DEVICES SHALL BE SPECIFICATION GRADE.
9 -	DEVICE PLATES SHALL BE OVERSIZED PLASTIC.
10 -	PANELS SHALL BE BOLT-IN BREAKER TYPE.
11 -	ALL EXPOSED NON-CURRENT CARRYING METALLIC PARTS OF THE ELECTRICAL SYSTEM SHALL BE GROUNDED.
12 -	THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR ONE YEAR FROM DATE OF ACCEPTANCE.



SCHEDULE FOR PANEL "P"									
MOUNTING	FLUSH MOUNTED	120 / 208				VOLTAGE			
BUS SIZE	100 AMPS	THREE PHASE / FOUR WIRE				WIRING			
TYPE	NGOD	MAIN LUGS ONLY				MAINS			
CKT	DESCRIPTION	AMPS	POLE	POLE	AMPS	DESCRIPTION	CKT		
1	TRACK LIGHTS	20	1	1	20	RECEPTACLES	2		
3	RECEPTACLES	20	1	1	20	RECEPTACLES	4		
5	RECEPTACLES	20	1	1	20	RECEPTACLES	6		
7	RECEPTACLES	20	1	1	20	RECEPTACLES	8		
9	RECEPTACLES	20	1	1	20	COPIER	10		
11	RECEPTACLES	20	1	1	20	REFRIGERATOR	12		
13	MICROWAVE	20	1	1	20	COFFEE	14		
15	ICE	20	1	1	20	RECEPTACLES	16		
17	VAV BOXES	20	1	1	20	VAV BOXES	18		
19	SPARE	20	1	1	20	SPARE	20		
21	SPARE	20	1	1	20	SPARE	22		
23	SPARE	20	1	1	20	SPARE	24		

Job Number:
1103
Drawn by:
JRW
File name:
1103 LEV01A
DWG/ARCH/1103.EIT
Project no:
1103/DATE
Drawing date:
2/25/12

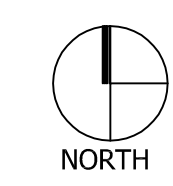
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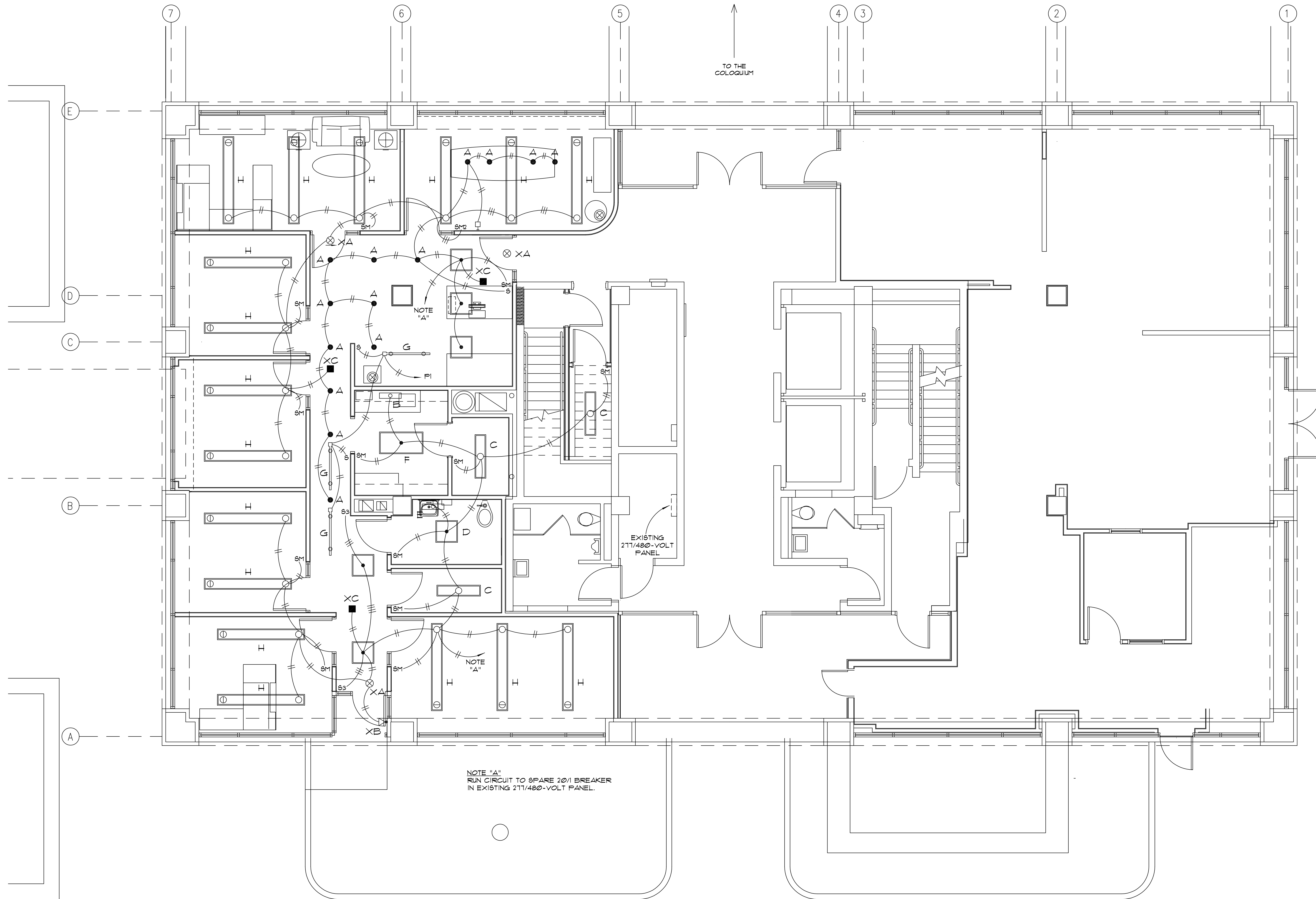
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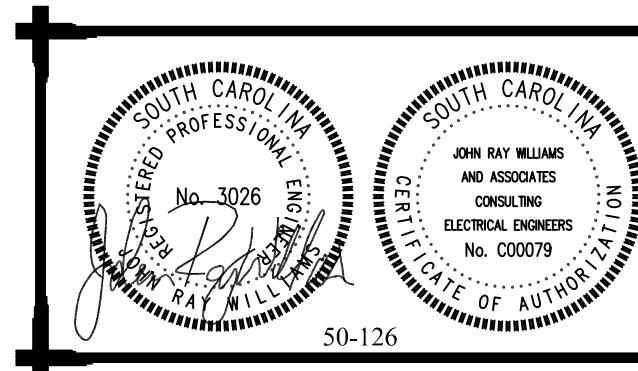
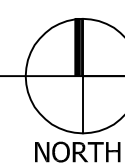
LIGHTING PLAN

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

NOTE "A"
RUN CIRCUIT TO SPARE 20/1 BREAKER
IN EXISTING 277/480-VOLT PANEL.

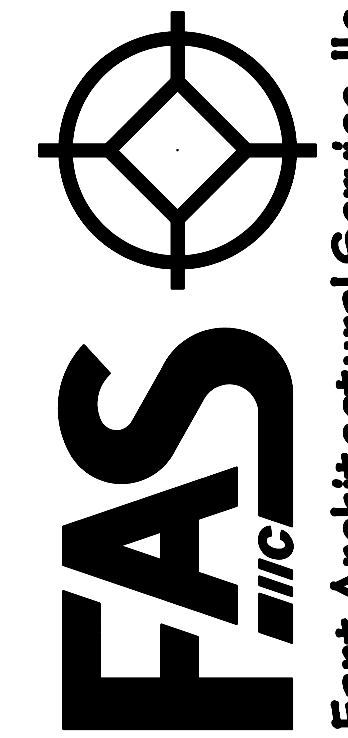
EXISTING
277/480-VOLT
PANEL

↑
TO THE
COLOQUIUM



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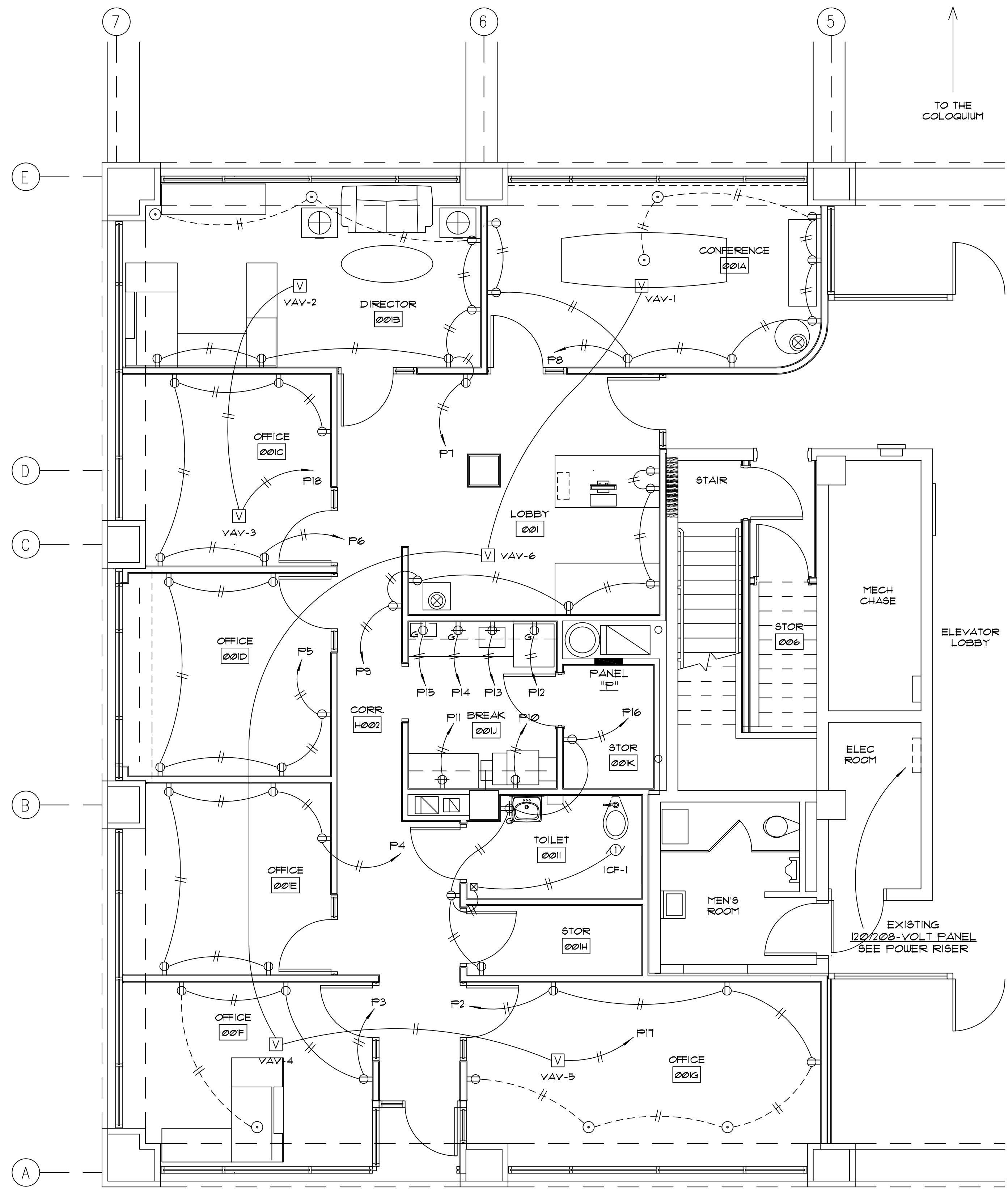


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Job Number:	1103
Drawn by:	jrw
File name:	1103_CAMPUS_ELECTRICAL
Plotted on:	11/17/2006
Drawing date:	3/20/12
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Project No H27-1976
Columbia, S. C.

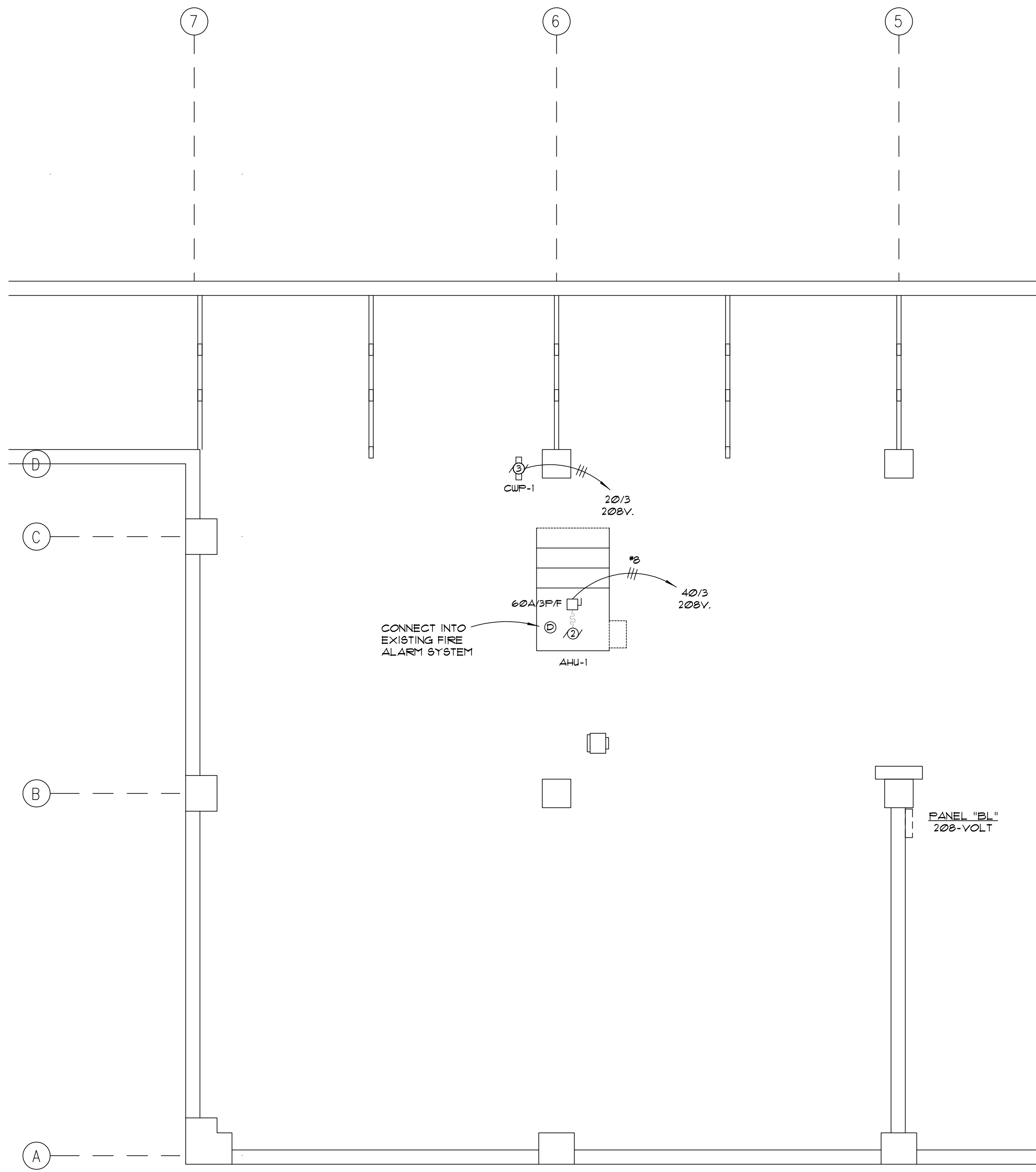
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NOTE
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ALLOW 12" BETWEEN OUTLETS.

MAIN FLOOR POWER PLAN

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



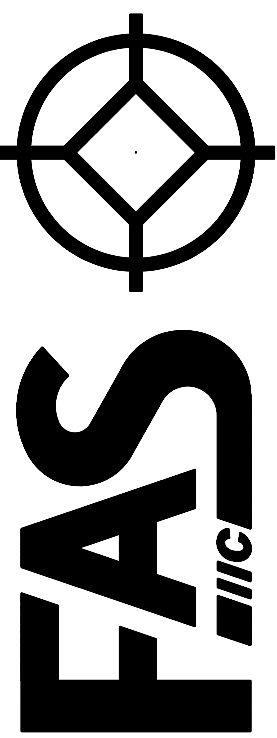
BASEMENT POWER PLAN

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

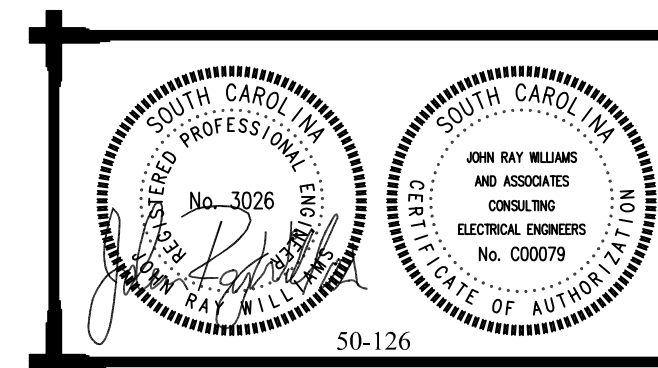


Job Number:	HCB
Drawn by:	JRW
File name:	HCB LEV01A.DWG
Project name:	WELSH
Drawing title:	2/2007
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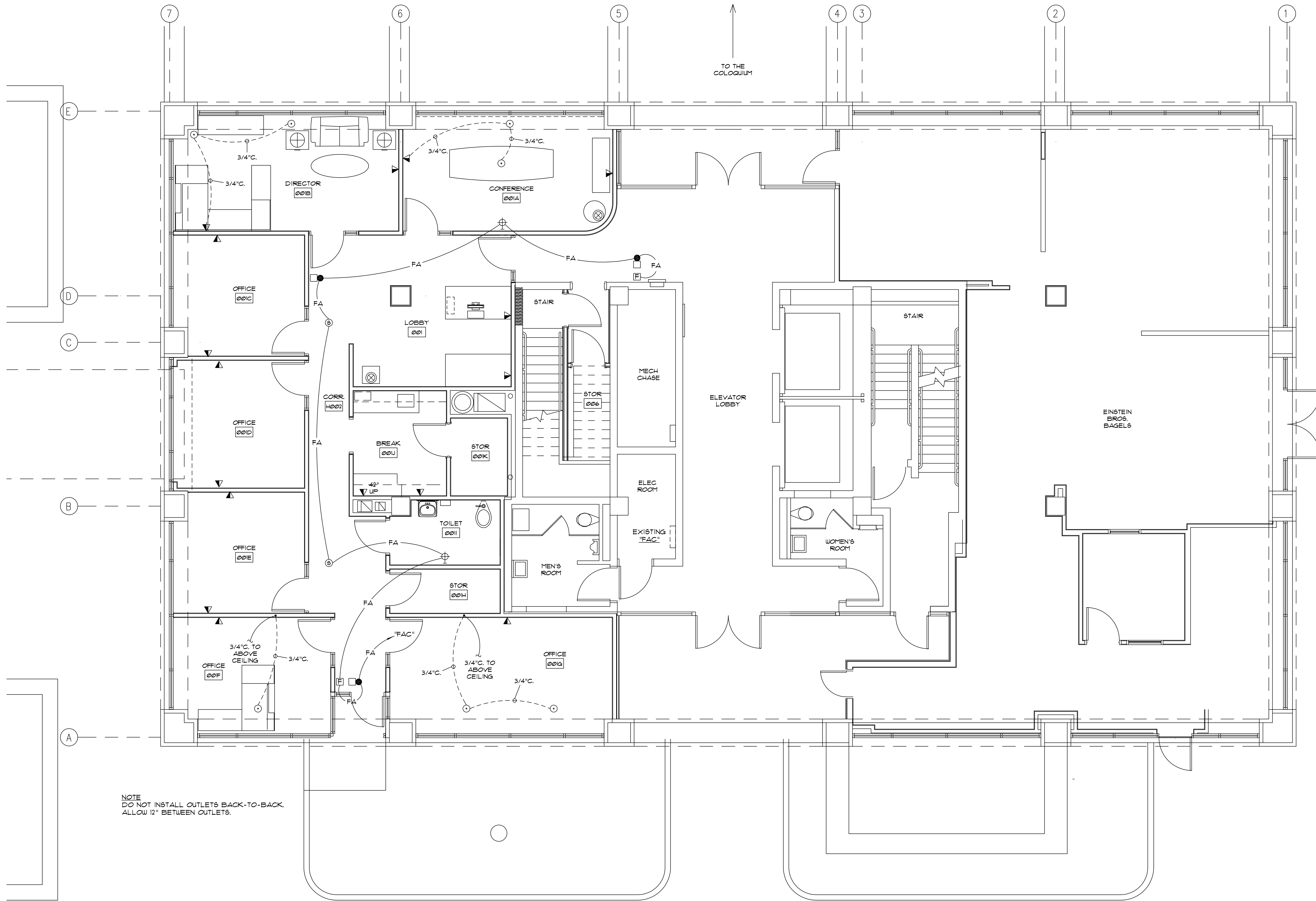
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COMMUNICATIONS PLAN

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



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Drawn by:	JRW
File name:	J008\DWG\1\COMMUNICATIONS.PLT
Printed on:	HP/PLTDATE
Drawing Date:	2/25/07
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