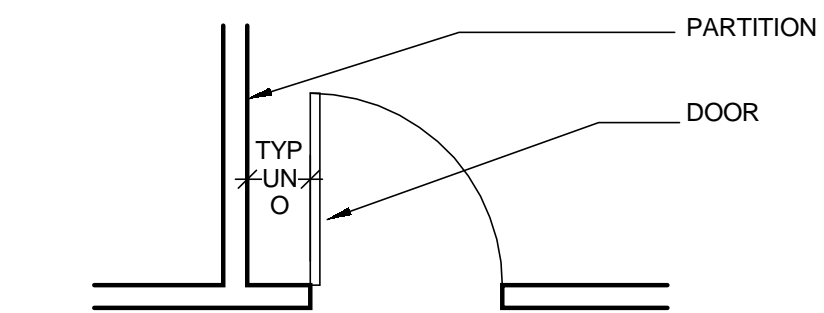






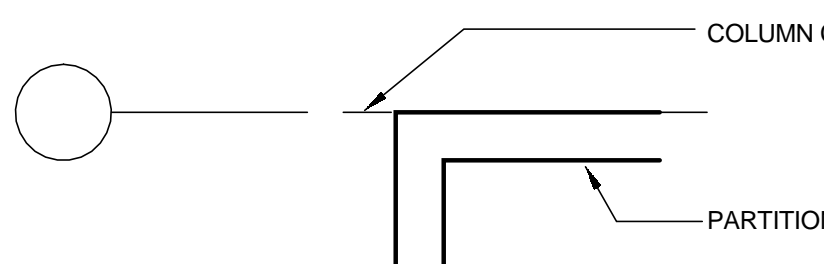
**DIMENSIONING**

- WHEN A ROOM/BUILDING/OBJECT CENTERLINE IS INDICATED, ONLY ONE SIDE OF ELEMENT MAY BE DIMENSIONED
- DOOR LOCATION  
DOORS ARE LOCATED BY ONE OF THE FOLLOWING:  
A. ONE JAMB FACE LOCATED BY A PARTITION AT RIGHT ANGLE.

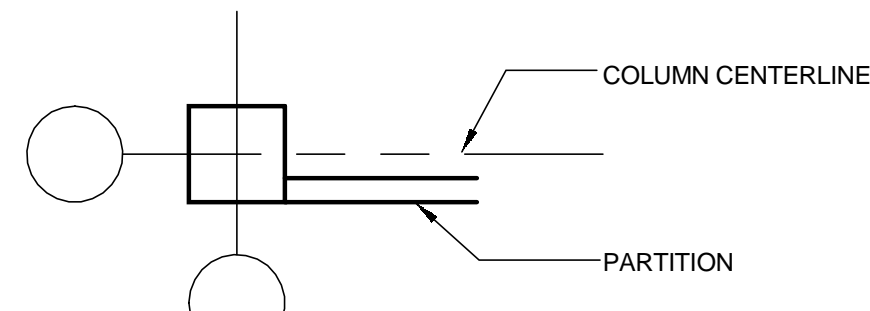


B. AS DIMENSIONED

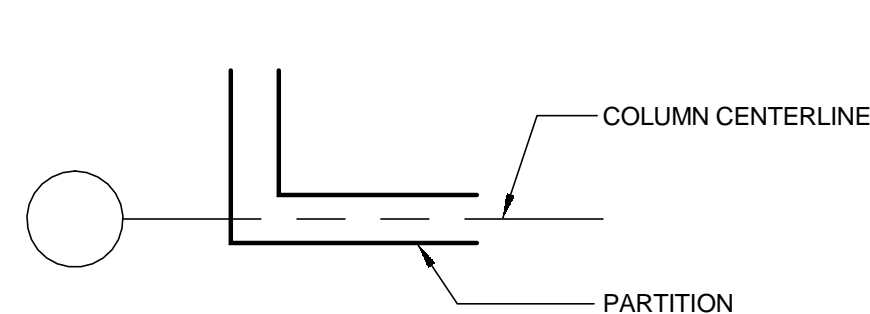
- PARTITION FINISH FACE ON COLUMN OR GRID LINE WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS BUT WILL BE DRAWN ACCORDINGLY ON LARGER SCALE DRAWINGS.



- PARTITIONS WITH FINISH FACE FLUSH WITH FINISH FACE OF COLUMN WILL NOT BE DRAWN ON SMALL SCALE PLANS BUT WILL BE DRAWN ACCORDINGLY ON LARGER SCALE DRAWINGS.



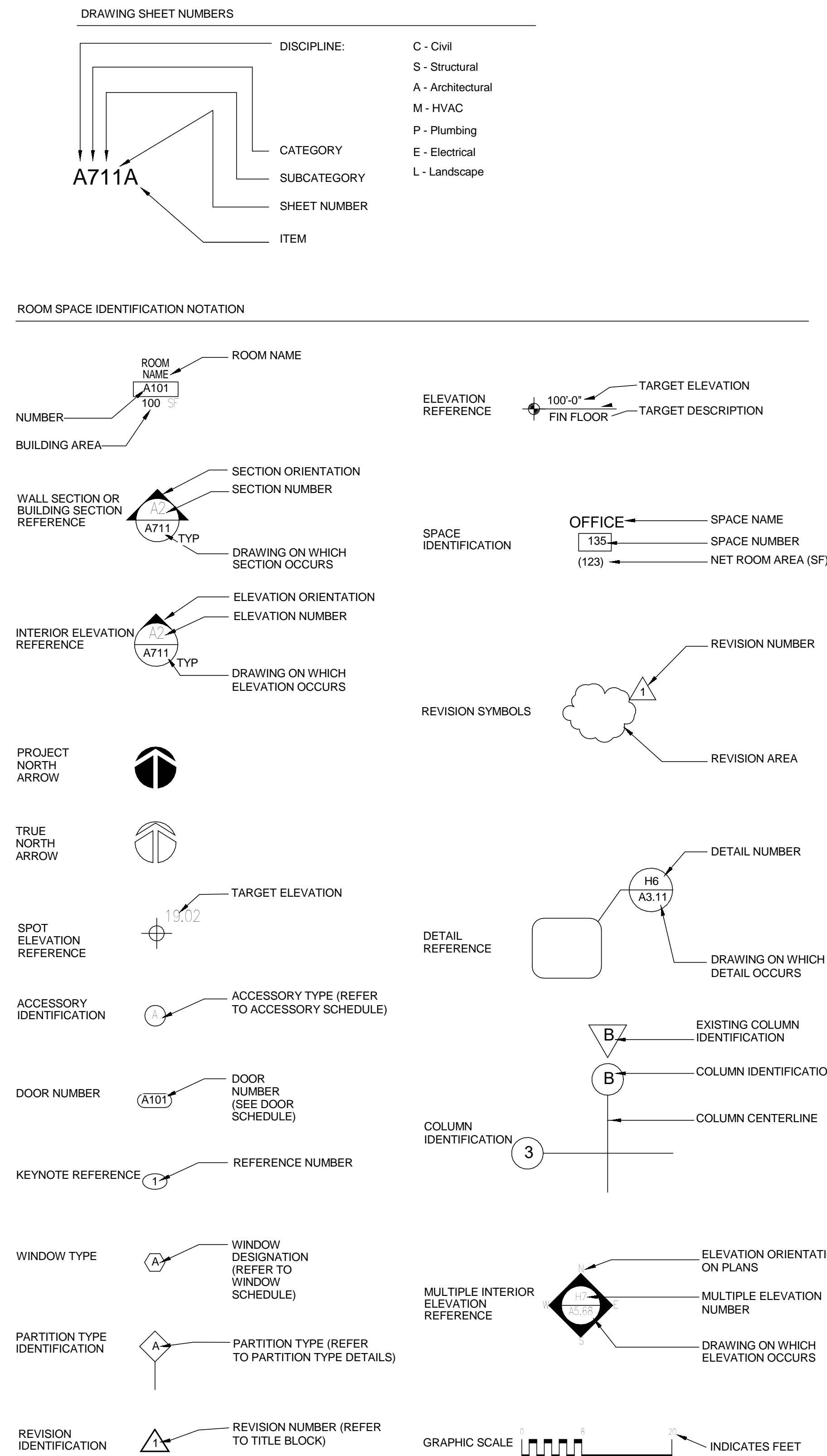
- PARTITIONS CENTERED ON COLUMNS OR GRID LINES WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS BUT WILL BE DRAWN ACCORDINGLY ON LARGER SCALE DRAWINGS.



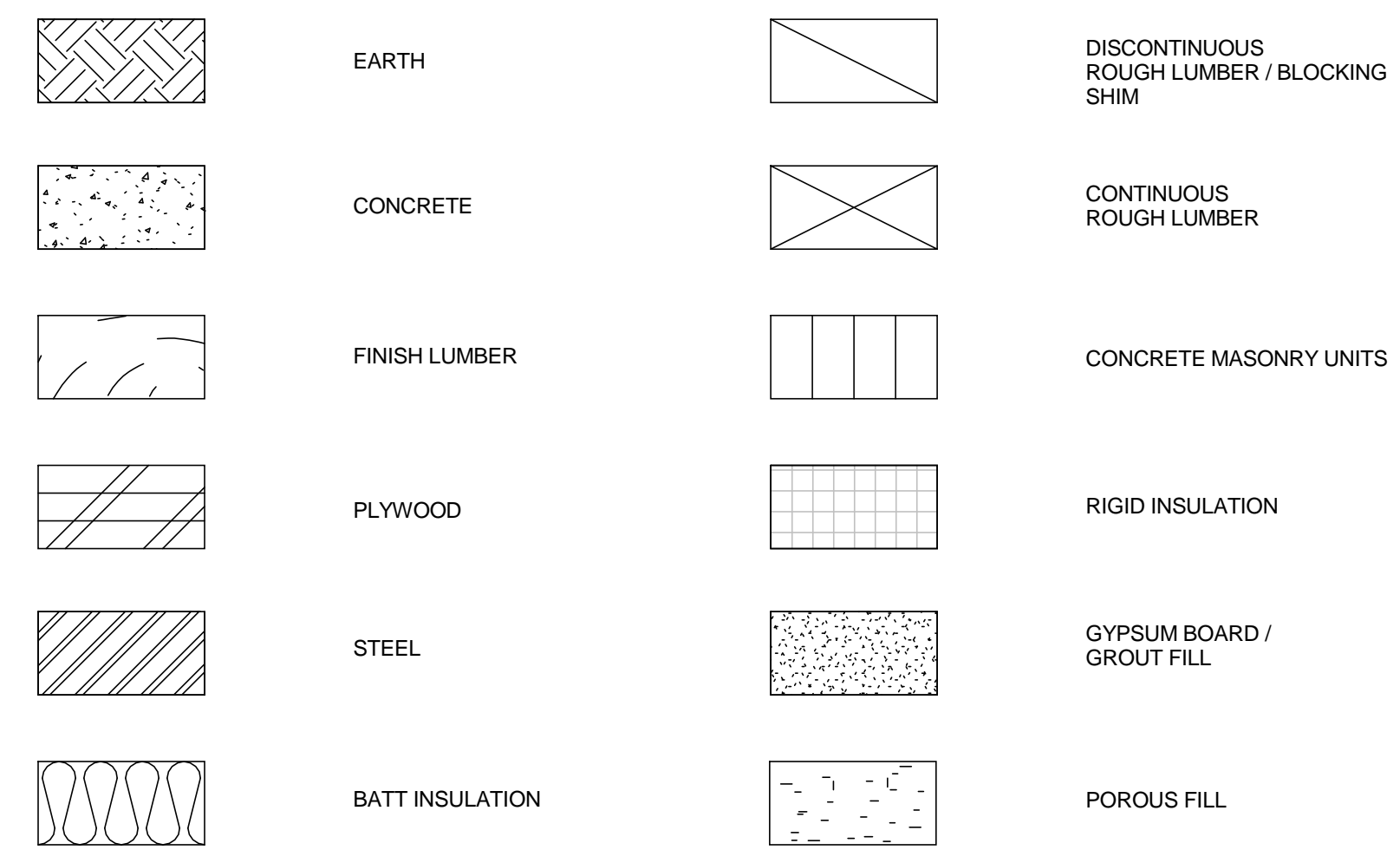
- PARTITIONS ARE DIMENSIONED TO FACE OF STUDS, FACE OF CMU AND FACE OF INDICATED OTHERWISE

- DIMENSIONS ARE INDICATED ON DRAWINGS, DO NOT SCALE DRAWINGS

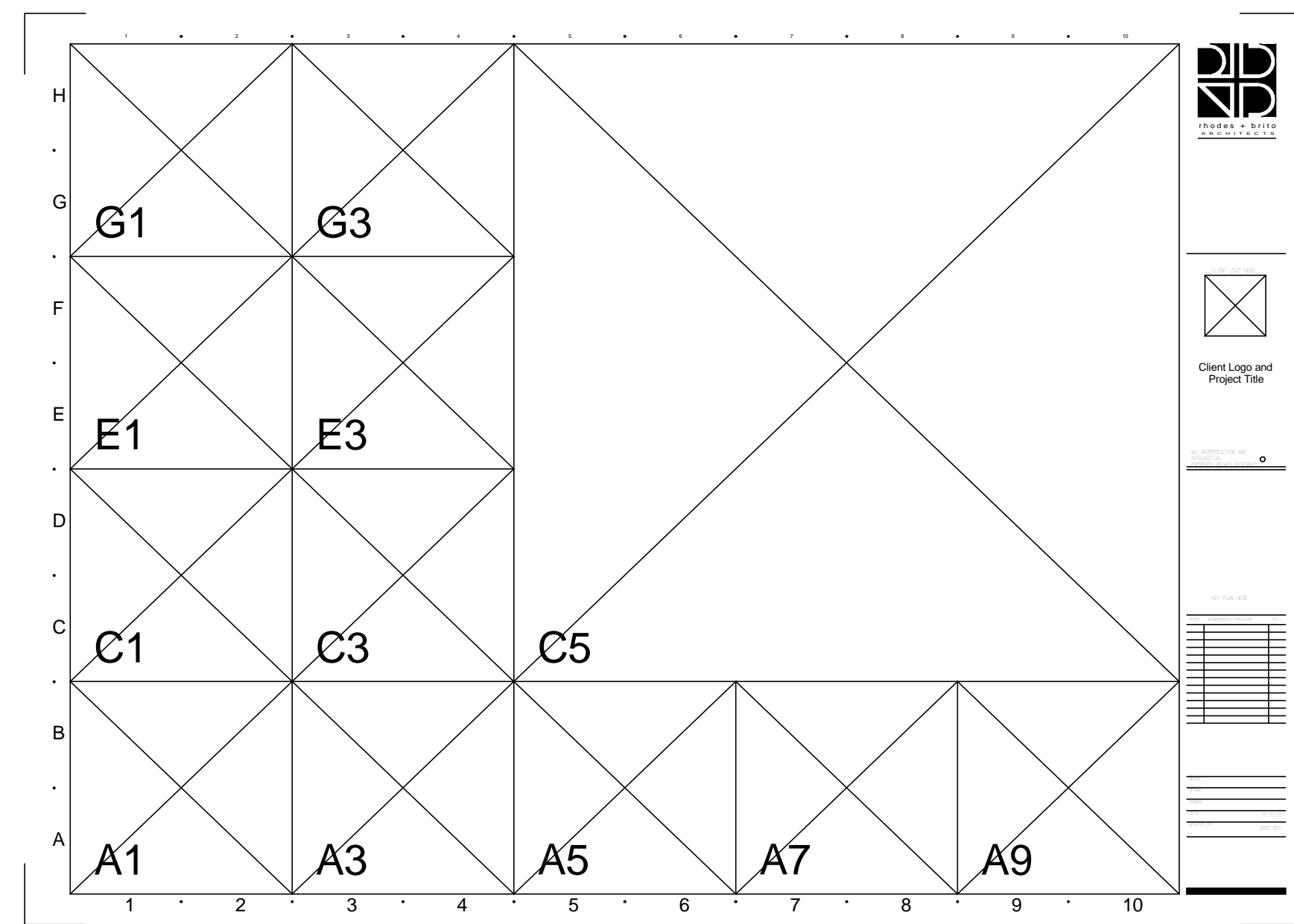
**DRAWING SYMBOL LEGEND**



**MATERIALS LEGEND**



**DRAWING FORMAT**



EACH SHEET IS DIVIDED INTO A GRID. AN ALPHA-NUMERIC GRID COORDINATE SYSTEM IS USED TO ORGANIZE THE DRAWING TITLES. DRAWING TITLES ARE NUMBERED ACCORDING TO ITS LOCATION ON THE GRID. THE LOWER LEFT HAND CORNER GRID OF THE DRAWING IS USED AS THE IDENTIFICATION NUMBER (SEE DIAGRAM).

**DRAWING INDEX**

**GENERAL**

REV. NO.	SHEET NAME
G000	COVER SHEET
1	G001 GENERAL INFORMATION
G002	OVERALL EXISTING FIRST FLOOR PLAN
G003	OVERALL EXISTING SECOND FLOOR PLAN
G020	UL DEFINITION
1	G040 WALL TYPES
1	G101 LIFE SAFETY PLAN
Total Sheets: 7	

**ARCHITECTURAL**

1	AD101	FIRST FLOOR DEMOLITION PLAN
1	AD121	REFLECTED CEILING DEMOLITION PLAN
1	AD221	EXTERIOR ELEVATION DEMOLITION
1	A101	FIRST FLOOR PLAN
1	A201	REFLECTED CEILING PLAN
1	A300	INTERIOR ELEVATIONS
1	A400	PARTIAL BUILDING SECTIONS
1	A500	WALL SECTIONS
1	A501	WALL DETAILS
1	A600	FINISH FLOOR PLAN
1	A601	FINISH SCHEDULE AND DETAILS
1	A710	DOOR AND WINDOW SCHEDULE
1	A711	DOOR AND WINDOW DETAILS
1	A800	MILLWORK PLANS AND ELEVATIONS
1	A900	EQUIPMENT PLAN
Total Sheets: 15		

**MECHANICAL**

M-100	LEGEND, ABBREVIATIONS AND GENERAL NOTES
M-101	FIRST FLOOR HVAC PLAN
M-102	FIRST FLOOR HVAC PIPING PLAN
M-501	DETAIL SHEET
M-601	SCHEDULES
M-701	HVAC CONTROLS
MD-101	FIRST FLOOR HVAC DEMOLITION PLAN
Total Sheets: 7	

**FIRE PROTECTION**

FP-101	FIRST FLOOR SPRINKLER LAYOUT
Total Sheets: 1	

**PLUMBING**

P-100	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
P-101	FIRST FLOOR SANITARY PLUMBING
P-102	FIRST FLOOR DOMESTIC PLUMBING
Total Sheets: 3	

**ELECTRICAL**

E-101	FIRST FLOOR ELECTRICAL PLAN
E-401	PANEL SCHEDULES
E-601	SECTION VIEWS
ED-101	FIRST FLOOR ELECTRICAL DEMOLITION PLAN
Total Sheets: 4	

**TECHNOLOGY**

T001	SYMBOL LEGEND - SYSTEMS
T101	OVERALL 1ST FLOOR PLAN (PARTIAL) - SYSTEMS
T102	OVERALL 2ND FLOOR PLAN (PARTIAL) - SYSTEMS
TD201	FIRST FLOOR DEMO PLAN
T201	FIRST FLOOR PLAN
T901	DETAILS - SYSTEMS
T902	DETAILS - SYSTEMS
T903	DETAILS - SYSTEMS
T904	DETAILS - SYSTEMS
Grand total: 9	

**LIST OF ABBREVIATIONS**

AB	ANCHOR BOLT	CAB	CABINET	DBL	DOUBLE	FAS	FIRE ALARM	HB	HOSE BIB	LAB	LABORATORY	NA	NORTH	QT	QUARTER	S	SOUTH	TPD	TOILET PAPER DISPENSER
ABV	ABOVE	CAT	CATEGORY	DEMO	DEMOLISH / DEMOLITION	FA	FASTEN, FASTENER	HBD	HARDBOARD	LAM	LAMINATE	NGVD	NOT APPLICABLE	QTR	QUARTER	SC	SCHEDULE	TR	TRANSOM
AC	AIR CONDITIONING	CB	CAST BASH	DEPT	DEPARTMENT	FBO	FURNISHED BY OTHERS	HD	HOLLOW CORE	LAV	LAVATORY	NCV	NATIONAL GEODETIC	RA	RISER	SCHD	SCHEDULE	TV	TELEVISION
ACD	ACOUSTICAL	CC	CENTER TO CENTER	DEPT	DEPARTMENT	FBO	FURNISHED BY OTHERS	HD	HOLLOW DUTY	LB	LAG BOLT	NC	NOT IN CONTRACT	RD	REFLECTED CEILING PLAN	SD	STORM DRAIN	TV	TELEVISION
ACPL	ACOUSTICAL PLASTER	CG	CORNER GUARD	DH	DOUBLE HUNG	FD	FLOOR DRAIN	HDR	HEADER	LBL	LABEL	NO	NUMBER	REC	RECEPTIONIST	SECR	SECRETARY	TYP	TYPICAL
ACT	ACOUSTICAL TILE	CHM	CHAMFER	DIA	DIAGONAL	FE	FIRE EXTINGUISHER	HM	HOLLOW METAL	LF	LINEAR FOOT	NOM	NOMINAL	REF	REFERENCE	SECT	SECTION		
AD	AREA DRAIN	CHT	CELLING HEIGHT	DM	DIMENSION	FF	FIRE EXTINGUISHER CABINET	HR	HORIZONTAL	LH	LEFT HAND	NTS	NOT TO SCALE	RO	ROOF DRAIN	SEC	SECURITY		
ADD	ADDITIONAL	CI	CAST IRON	DISP	DISPENSER	FF	FACTORY FINISH	HP	HIGH POINT	LS	LINE LOAD	OC	ON CENTER	RAD	RADIUS	SFG	SOLID FOOT		
ADD	ADDITIONAL	CIP	CAST-IN-PLACE	DV DR	DIVISION DOOR	FGL	FIBERGLASS ELEVATION	HRD	HARDWARE	LV	LUMP SUM	OD	OUTSIDE DIAMETER	RCP	REFLECTED CEILING PLAN	SG	SHEET GLASS	UC	UNDERCUT
ADJ	ADJUSTABLE	CJR	CIRCLE	DL	DEAD LOAD	FGL	FIBERGLASS ELEVATION	HRD	HARDWARE	LVL	LIGHT LUMBER	OPC	OPPOSITE	REF	REFERENCE	SH	SHELVING	UNF	UNFINISHED
AE	ARCHITECT/ENGINEER	CK	CAULK	DR	DAMP PROOFING	FIN	FINISH(ED)	HT	HEAD HEIGHT	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
AFF	ABOVE FINISHED FLOOR	CLC	CEILING	DR	DOOR	FIN	FINISH(ED)	HT	HEAD HEIGHT	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
AHJ	AUTHORITY HAVING JURISDICTIONS	CLS	CLEARANCE	DR	DAMP PROOFING	FIN	FINISH(ED)	HT	HEAD HEIGHT	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
AIR	AIR HANDLING UNIT	CLC	CEILING	DR	DAMP PROOFING	FIN	FINISH(ED)	HT	HEAD HEIGHT	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
ALT	ALTERNATE	CLS	CLEARANCE	DR	DAMP PROOFING	FIN	FINISH(ED)	HT	HEAD HEIGHT	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
ALUM	ALUMINUM	CMU	CONC MASONRY UNIT	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
ANC	ANCHOR(AGE)	CNT	CENTER	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
ANOD	ANODIZED	CNT	CENTER	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
AP	APPROXIMATE	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
ARCH	ARCHITECTURAL	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
ASB	ASBESTOS	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
ASPH	ASPHALT	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
AUTO	AUTOMATIC	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
AV	AUDIO VISUAL	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BD	BOARD	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BEL	BELIEF	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BET	BETWEEN	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BLDG	BUILDING	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BLDG	BUILDING	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BLK	BLOCKING	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BM	BENCH MARK	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BT	BOTTOM	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BT	BOTTOM	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BRG	BEARING	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BRG PL	BEARING PLATE	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BRK	BOTH SIDES	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BSL	BUILDING SETBACK LINE	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BSMT	BASEMENT	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BSMT	BASEMENT	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BUR	BUILT UP ROOFING	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BVL	BEVELED	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED
BW	BOTH WAYS	CONTR	CONTRACTOR PROVIDED	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HTG	HEATING	LVL	LAMINATED VENEER LUMBER	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	SH	SHELVING	UNF	UNFINISHED



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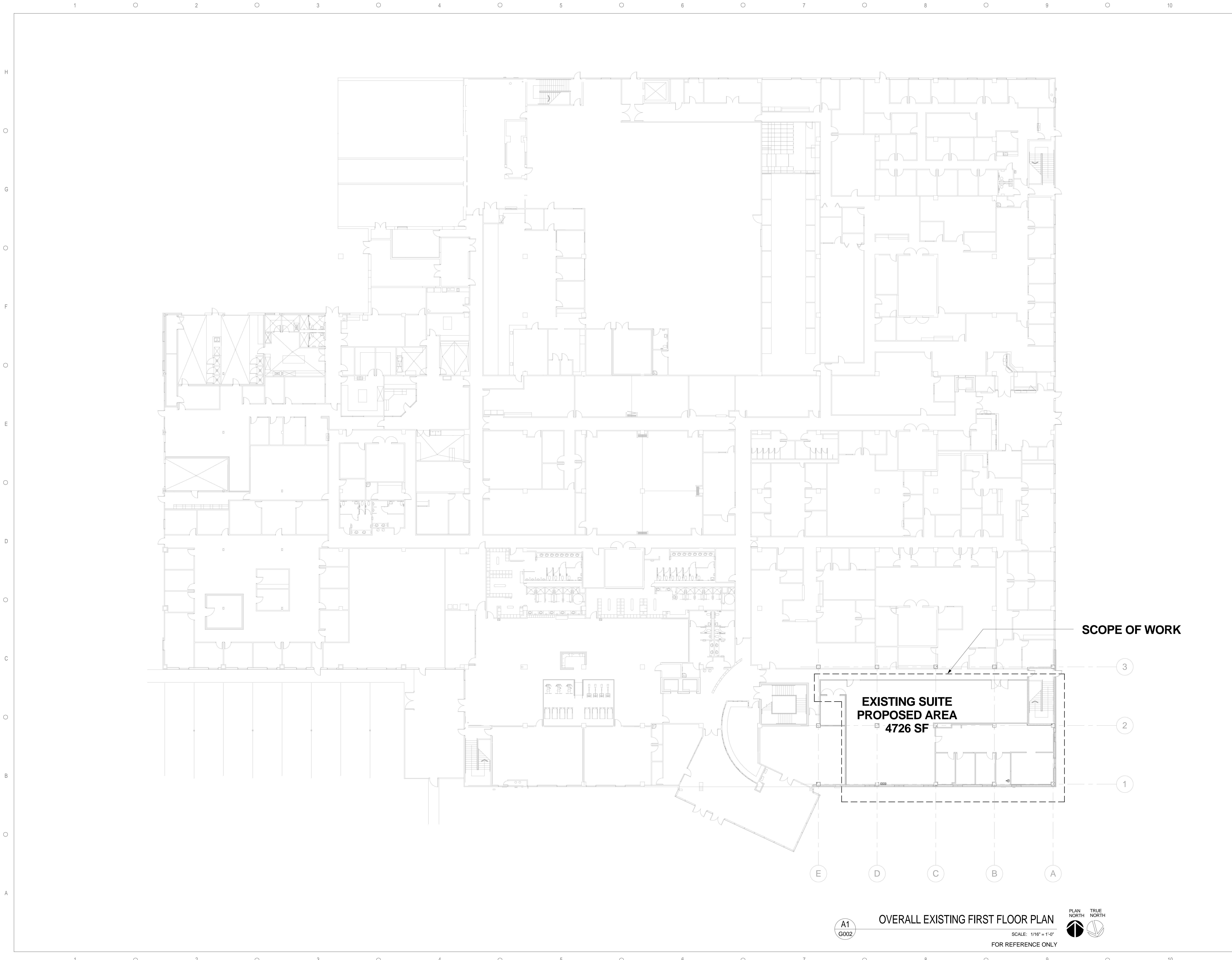
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11/18/2016	Permit Review Responses	1

**GENERAL INFORMATION**



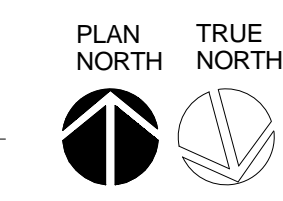


**SCOPE OF WORK**

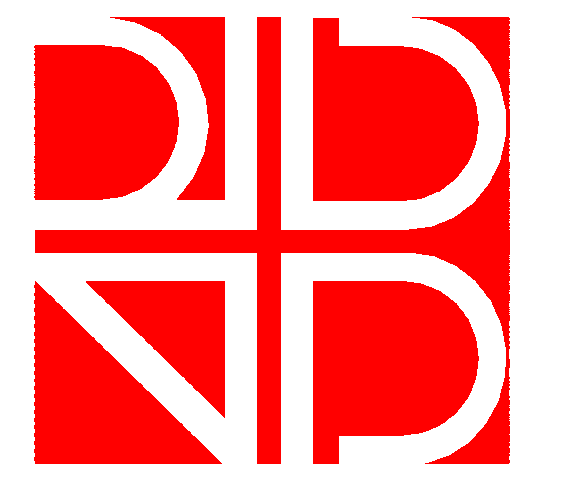
**EXISTING SUITE  
PROPOSED AREA  
4726 SF**

A1  
G002

**OVERALL EXISTING FIRST FLOOR PLAN**



SCALE: 1/16" = 1'-0"  
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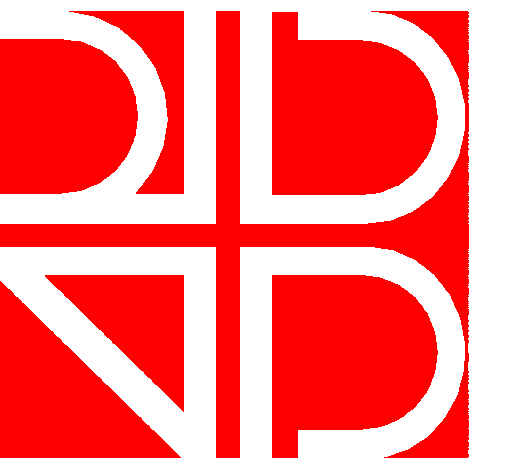
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DATE	SUBMISSION / REVISION	NO.

**OVERALL EXISTING  
FIRST FLOOR PLAN**

SCALE: AS INDICATED  
DRAWN BY: MA / AC  
CHECK BY: AC / JB  
DATE: 09/15/2016  
PROJECT NUMBER: 15012-0011

**G002**



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DATE	SUBMISSION / REVISION	NO.

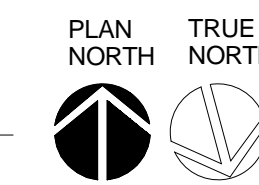
**OVERALL EXISTING  
SECOND FLOOR PLAN**

SCALE: AS INDICATED  
DRAWN BY: MA / AC  
CHECK BY: AC / JB  
DATE: 09/15/2016  
PROJECT NUMBER: 15012-0011

**G003**

A1  
G003

**OVERALL EXISTING SECOND FLOOR PLAN**



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

FOR REFERENCE ONLY







GENERAL PARTITION TYPE NOTE

- REFER TO PLANS FOR LOCATION AND EXTENTS OF RATED WALLS. THE CONSTRUCTION OF ALL RATED WALLS SHALL CONFORM TO THE REFERENCED UNDERWRITERS LABORATORIES, INC. (UL) OR GYPSUM ASSOCIATION (GA) TEST ASSEMBLY NUMBERS INDICATED. THE REFERENCED UL OR GA TEST ASSEMBLY MAY CONTAIN PROPRIETARY PRODUCTS AND/OR MATERIALS WHICH MUST BE FURNISHED.
- PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS (REFER DIV 7) AND THROUGH-PENETRATION FIRESTOP DEVICES (REFER DIV 7), SEALANTS AND RELATED PRODUCTS FOR FIRE-RATED FLOOR AND WALL PENETRATIONS (AND SEALING TOP OF RATED WALLS TO DECK). THIS WORK ALSO INCLUDES FIRESTOPPING AT PENETRATIONS THROUGH ALL FIRE-RATED WALLS AND FLOORS. ALL RATED WALL PENETRATIONS SHALL MAINTAIN THE INTEGRITY OF THE WALL ASSEMBLY. PROVIDE FIRESTOP SEALANT BETWEEN CMU AND STUD WALL CONSTRUCTION AT ALL FIRE RATED / SMOKE TIGHT RATED WALLS.
- THE FOLLOWING STATEMENTS SHALL BE STENCILED ON ALL FIRE AND/OR SMOKE RATED PARTITIONS:  
 AT FIRE RATED PARTITIONS: "1 HR FIRE PARTITION - PROTECT ALL OPENINGS" - FILL IN HOUR RATING.  
 AT SMOKE RATED PARTITIONS: "SMOKE PARTITION - PROTECT ALL OPENINGS" - SIZE, COLOR, FONT AND LOCATION AS PER CURRENT APPLICABLE CODE REQUIREMENTS.
- SEE INTERIOR ELEVATIONS AND REFLECTED CEILING PLANS FOR HEIGHTS, AND TYPE OF ALL FINISHES LOCATED ON PARTITIONS AND WALLS.
- AT ALL WALLS, INCLUDING NON-RATED, ACOUSTICAL, FIRE RATED AND SMOKE PARTITIONS, ELECTRICAL OUTLETS AND OTHER SERVICE PENETRATIONS AND OPENINGS IN OPPOSITE SIDES OF THE PARTITION SHALL BE SEPARATED BY TWO COMPLETE STUD SPACES ACROSS LENGTH OF WALL. SHOULD
- GYPSUM BOARD TO BE INSTALLED A MIN. OF 1/2" ABOVE THE FLOOR SLAB. REMOVE WATER AND MOISTURE DAMAGED GYPSUM BOARD.
- LIGHT GAUGE METAL STUD MFR / FABRICATOR SHALL PROVIDE SHOP DRAWINGS, SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF FLORIDA, FOR DESIGN OF BRACING, ANCHORAGE, FASTENERS, LAYOUT AND OTHER RELATED WORK FOR COLD FORMED AND LIGHT GAUGE METAL STUD PARTITIONS, CEILINGS, AND OTHER RELATED
- REFER TO SHEET A500 FOR WALL SECTIONS.



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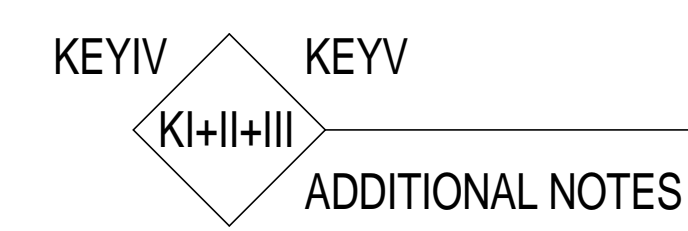
DATE	SUBMISSION / REVISION	NO.
11/18/2016	Permit Review Responses	1

WALL TYPES

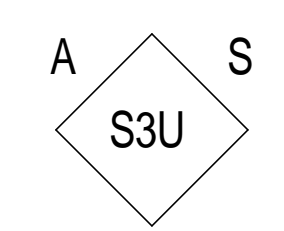
SCALE: AS INDICATED  
DRAWN BY: MA / AC  
CHECK BY: AC / JB  
DATE: 09/15/2016  
PROJECT NUMBER: 15012-0011

**G040**

WALL TYPES (KEY I + KEY II + KEY III + KEY IV + KEY V) =



EXAMPLE WALL TYPE (S3U-A-S) =  
3-5/8" FULL HEIGHT, NOT RATED, INSULATED  
METAL STUD WALL



KEY I (DIAMOND)  
MATERIAL DESCRIPTION

S	METAL STUDS
H	SHAFT WALLS
M	MASONRY
C	CONCRETE
K	METAL STUD WALL STACKED OVER MASONRY
PA	PLUMBING CHASE WALL BOTH STUDS TO DECK
WB	PLUMBING CHASE WALL 1 STUD TO DECK
W	WOOD STUDS
X	COMBINATION
E	EXISTING
**	PREFIX TO BE ADDED IN FRONT OF MATERIAL DESCRIPTION
*	X (COMBINATION) SPECIAL MATERIAL CODES
01-19	METAL STUD + CMU
20-39	METAL STUD + CONCRETE
40-59	WOOD STUD + CMU
60-79	WOOD STUD + CONCRETE
80-99	CMU + CONCRETE
90-99	USER DEFINED

KEY II (DIAMOND)  
MATERIAL WIDTH

FURRING SIZES	
0.5	1/2" FURRING OR CHANNELS
0.6	5/8" FURRING OR CHANNELS
0.7	3/4" FURRING OR CHANNELS
0.8	7/8" FURRING OR CHANNELS
TYPICAL MATERIAL WIDTHS	
1	1-5/8" STUDS OR CHANNELS
2	2-1/2" STUDS OR 1-5/8" CMU
3	3-5/8" STUDS
4	4" STUDS OR 3-5/8" CMU
6	6" STUDS OR 5-5/8" CMU
8	8" STUDS OR 7-5/8" CMU
10	9-5/8" CMU
12	11-5/8" CMU
CONCRETE MATERIAL WIDTHS	
#	DIMENSIONAL THICKNESS OF WALL

KEY III (DIAMOND)  
WALL MODIFIER

R	FIRE RATED
R1	1 HR RATED
R2	2 HR RATED
G	NOT RATED FURRED WALL
K	SMOKE PARTITION
KB1	1 HR RATED SMOKE BARRIER
KB2	2 HR RATED SMOKE BARRIER
J	NOT RATED (WHEN SPECIFIED)
U	USER DEFINED
L3	BULLET RESISTANT PANELS LEVEL 3A

KEY IV (FIRST QUAD)  
PRIMARY WALL MODIFIER

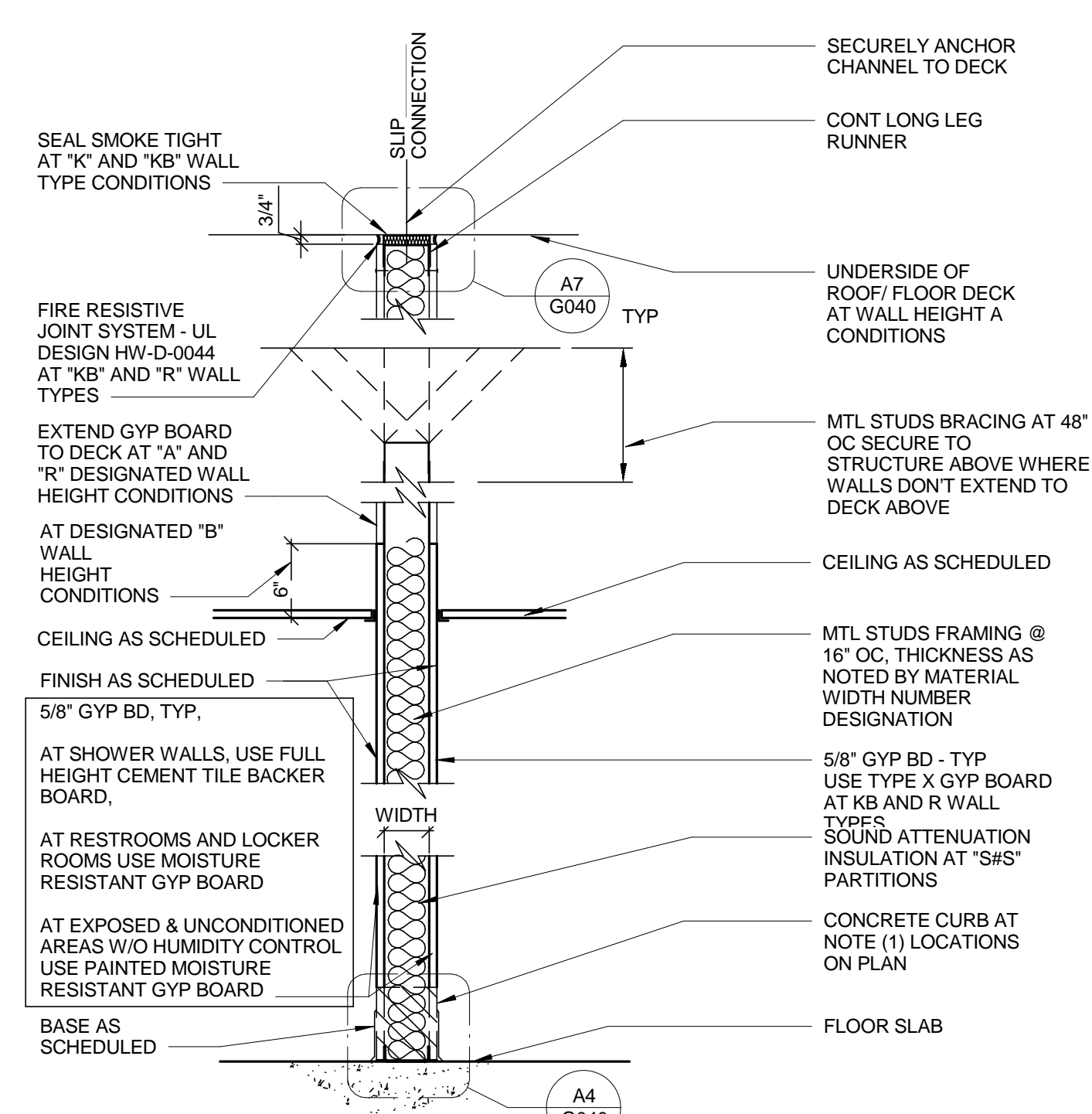
WALL HEIGHTS	
A	TO UNDERSIDE OF DECK
B	TO 6" ABOVE CEILING, UNO
C	TO UNDERSIDE OF CEILING
D	VARIABLE HEIGHT
E	INFILL EXISTING OPENING
F	METAL STUD FURRING, TOP OF FURRING 4" ABOVE CEILING
H	(1)-LAYER OF GYP ON ONE SIDE
JZ	USER DEFINED (OTHER THAN WHAT IS DEFINED ABOVE)
LQ	NOT USED

KEY V (SECOND QUAD)  
SECONDARY WALL MODIFIER

S	INSULATION (SOUND ATTENUATION / STC VALUE WHERE NOTED)
N	RESILIENT CHANNELS (W/ GYP BOARD AND SOUND INSULATION)
L	LEAD LINED GYP BOARD (W/ SOUND INSULATION)
V	VAPOR BARRIER
M	FOAM-IN-PLACE INSULATION
H	SAND FILLED
I	CEMENT TILE BACKER BOARD AT TILE LOCATIONS
AZ	USER DEFINED (OTHER THAN WHAT IS DEFINED ABOVE)
LQ	NOT USED

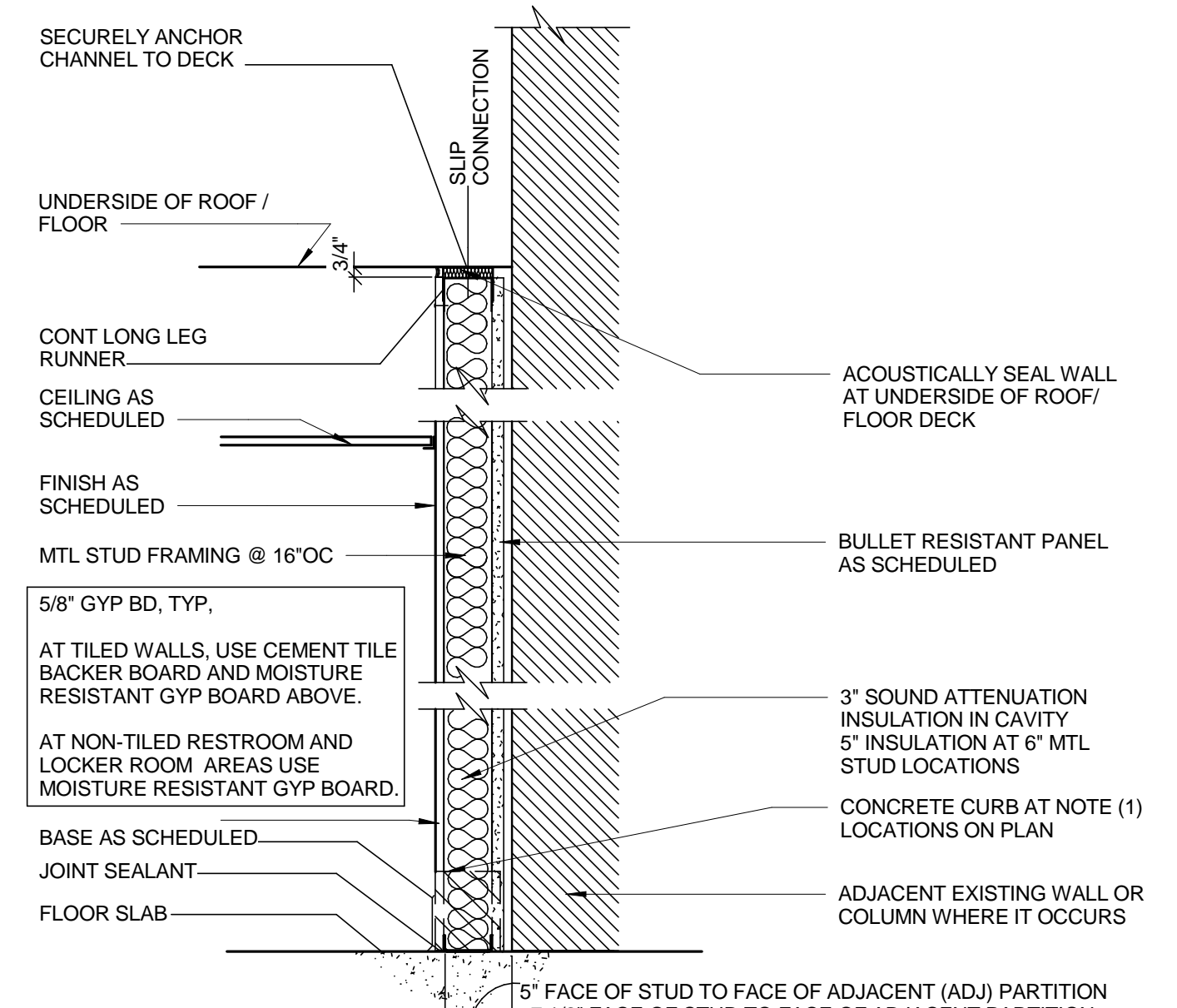
ADDITIONAL NOTES

- 4"x4" CONCRETE CURB AT BOTTOM OF WALL.



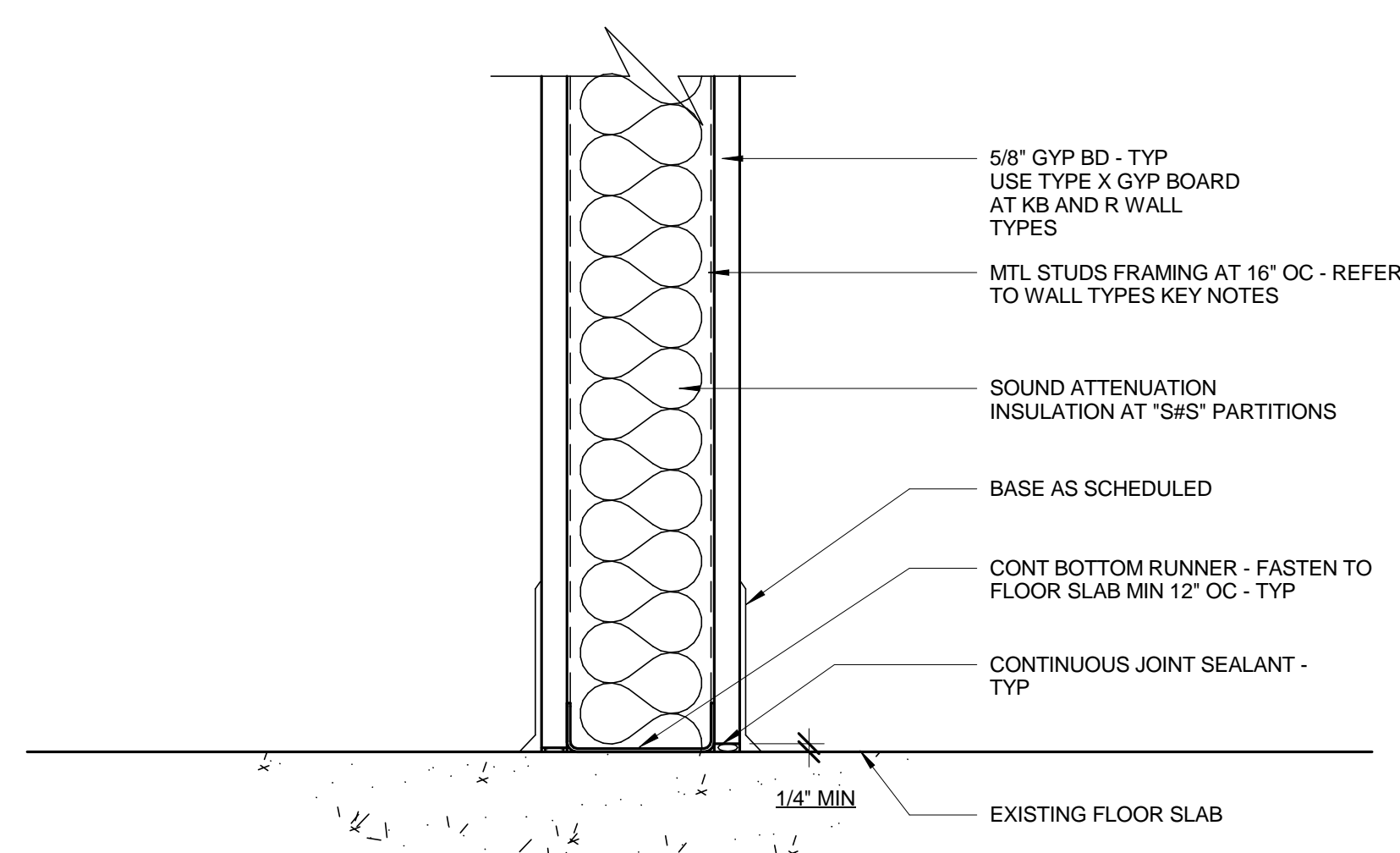
TYPE

TYPE	DESCRIPTION	WIDTH	REF DESIGN
S3U	3 5/8" MTL STUDS	4 1/4", 4 7/8"	
S3U	6" MTL STUDS	7 1/4"	
S3R1	1 HR RATED PARTITION, 3 5/8" MTL STUDS	4 7/8"	UL DESIGN 465
S6R1	1 HR RATED PARTITION, 6" MTL STUDS	7 1/4"	UL DESIGN 465

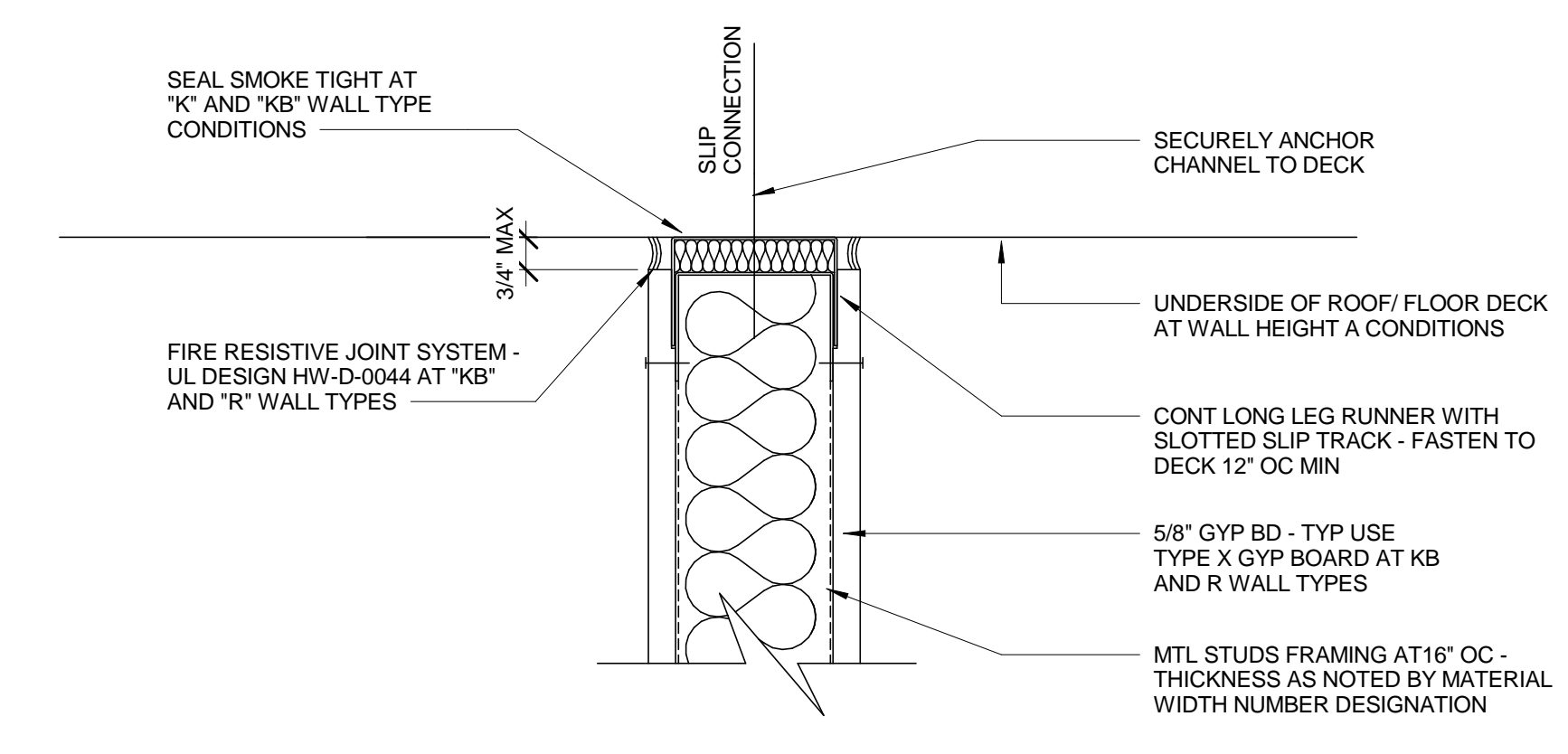


TYPE

TYPE	DESCRIPTION	WIDTH	REF DESIGN
S1G	1 5/8" MTL STUDS, NOT RATED	2 1/4"	
S2GL3	2 3/4" MTL STUDS, NOT RATED - BULLET RESISTANT PANEL	4 1/4"	UL752 LEVEL 3
S3G	3 5/8" MTL STUDS, NOT RATED	4 1/4"	
S6G	6" MTL STUDS, NOT RATED	6 5/8"	

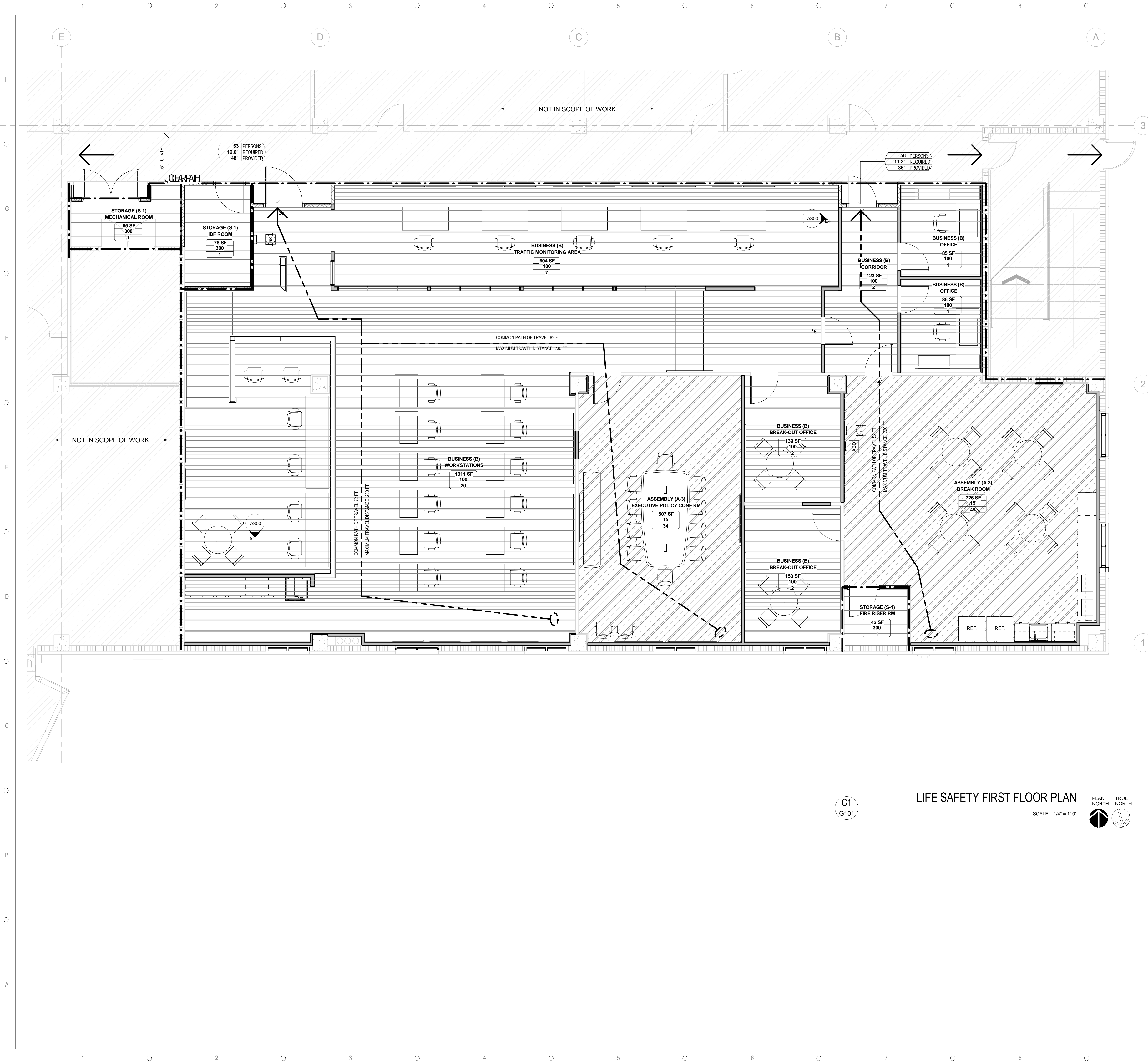


**A4**  
G040  
CONNECTION DETAIL  
SCALE: 3" = 1'-0"



**A7**  
G040  
CONNECTION DETAIL  
SCALE: 3" = 1'-0"





**APPLICABLE CODES**

1. FLORIDA BUILDING CODE (FBC) 2014 EDITION AND AMENDMENTS
  2. FLORIDA ACCESSIBILITY CODE 2014 EDITION
  3. FLORIDA FIRE PREVENTION CODE (FFPC) 2014, 5TH EDITION
- OTHER APPLICABLE CODE CRITERIA, BUT NOT LIMITED TO THE FOLLOWING:
1. NFPA 1, "UNIFORM FIRE CODE," 2012 ED. AS MODIFIED BY FFPC
  2. NFPA 10, "STANDARD FOR PORTABLE FIRE EXTINGUISHERS," 2013 EDITION
  3. NFPA 13, "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS," 2013 EDITION
  4. NFPA 70, "NATIONAL ELECTRICAL CODE," 2008 EDITION
  5. NFPA 72, "NATIONAL FIRE ALARM CODE," 2011 EDITION
  6. NFPA 80, "STANDARD FOR FIRE DOORS AND FIRE WINDOWS," 2013 EDITION
  7. NFPA 101, "LIFE SAFETY CODE," (LSC) 2012 ED. AS MODIFIED BY THE FFPC
  8. NFPA 110, "STANDARD ON EMERGENCY AND STANDBY POWER SYSTEMS," 2013 EDITION
  9. CLASSIFICATION OF WORK: ALTERATION LEVEL 2 PER FBC 2014 EXISTING BUILDING CODE CHAPTER 5 SECTION 504.1

**CONSTRUCTION CLASSIFICATION**

1. OCCUPANCY CLASSIFICATION EXISTING BUILDING	GROUP B / BUSINESS OCCUPANCY
1.1 CONSTRUCTION TYPE	II-B UNPROTECTED
1.2 ALLOWABLE HEIGHT	80 FEET
1.3 ALLOWABLE AREA	UNLIMITED
1.4 ALLOWABLE STORES	UNLIMITED
2. EXISTING BUILDING CONSTRUCTION TYPE	II-B
3. EXISTING BUILDING AREA	
3.1 1ST FLOOR GROSS FLOOR AREA (EXISTING)	124,000 SF
3.2 OCCUPANT / SQ FT	100 GROSS
3.3 TOTAL OCCUPANTS	1,240
4. RENOVATION PROJECT AREA	
4.1 1ST FLOOR GROSS FLOOR AREA (EXISTING)	4,721 SF
4. EXISTING NUMBER OF STORES	2 STORES

**OCCUPANT LOAD** PER TABLE 1004.1.1 / FBC 2014

1. OCCUPANT LOAD - 1ST FLOOR - EOC SUITE	
1.1 ASSEMBLY (A-3)	83
1.2 BUSINESS (B)	35
1.3 STORAGE (S-1)	3
1.4 TOTAL OCCUPANT LOAD	121
1ST FLOOR - EOC SUITE	

**MEANS OF EGRESS** CHAPTER 10 - FBC 2014

1. MAXIMUM TRAVEL DISTANCE TO AN EXIT	REQUIRED	PROVIDED
(PER TABLE 1004.1.1 FBC 2014 - EXIT ACCESS TRAVEL DISTANCE)	(A) = 250 FEET (B) = 300 FEET	SEE LIFE SAFETY PLAN
2. MAXIMUM COMMON PATH OF TRAVEL	(A) = 75 FEET (B) = 100 FEET	SEE LIFE SAFETY PLAN
3. MAXIMUM DEAD END CORRIDOR	50 FEET	SEE LIFE SAFETY PLAN
4. MINIMUM NUMBER OF EXITS	2	4
5. EGRESS EXIT DOORS: MINIMUM 32 INCHES CLEAR WIDTH (LSC 7.2.1.2.3.2)		
6. FORCE TO OPEN: APPLIED AT THE LATCH STILE (FBC 1008.1.3 / LSC 7.2.1.4.5)		
6.1. LESS THAN OR EQUAL TO 15 LBF TO OPERATE THE LATCH		
6.2. LESS THAN OR EQUAL TO 30 LBF TO SET THE DOOR IN MOTION		
6.3. LESS THAN OR EQUAL TO 15 LBF TO FULLY OPEN DOOR TO MINIMUM REQUIRED - WITH		
6.4. LESS THAN OR EQUAL TO 5 LBF FOR INTERIOR SIDE-HINGED OR PIVOTED SWINGING DOORS WITHOUT CLOSERS		
7. EXIT SIGNS: EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT ACCESS CORRIDOR OR EXIT PASSAGEWAY IS MORE THAN 100 FT OR THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICHEVER IS LESS, FROM THE NEAREST VISIBLE EXIT SIGN (FBC 1011.1 / LSC 7.10.1.5.2)		
8. ELEVATOR LOBBY TO CORRIDOR WITH NFPA 101 SECTION 7.2.1.6.3		
9. IN REGARDS TO FIRE EXTINGUISHER CABINET: PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2A:10-B-C WITH 50 FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR, AND ADDITIONAL EXTINGUISHERS AS REQUIRED BY AUTHORITY HAVING JURISDICTION (AHL)		
10. MEANS OF EGRESS SIZING: OCCUPANTS x (0.2) FOR DOOR CLEAR OPENING WIDTH, OCCUPANTS x (0.3) FOR STAIRWAYS WIDTH CAPACITY IN INCHES PER OCCUPANT. IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 AND AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5.2.2 (FBC 1005.3.1)		

**OCCUPANCY LEGEND**

- ASSEMBLY (A-3)
- BUSINESS (B)
- STORAGE (S-1)

**LIFE SAFETY LEGEND**

- 1 HOUR FIRE RATED WALL
- MAXIMUM TRAVEL DISTANCE TO AN EXIT
- COMMON PATH OF TRAVEL TO CHOICE OF TWO TRAVEL PATHS
- SEMI RECESSED AUTOMATED EXTERNAL DEFIBRILLATOR (AED)
- WALL MOUNTED FIRE EXTINGUISHER CLASS: 2A:10B-C
- SURFACE MOUNTED FIRE EXTINGUISHERHOSE CABINET CLASS: 2A:10B-C
- RECESSED FIRE EXTINGUISHERHOSE CABINET CLASS: 2A:10B-C
- EXIT SIGN
- EXIT SIGN WITH DIRECTIONAL ARROW
- ROOM AREA (SQUARE FEET)
- OCCUPANT LOAD FACTOR
- NUMBER OF OCCUPANTS
- OCCUPANT LOAD USING EXIT
- REQUIRED EXIT WIDTH (INCHES)
- OCCUPANT LOAD x 0.2 (BY OCCUPANT)
- PROVIDED EXIT WIDTH (INCHES)

**C1 G101** LIFE SAFETY FIRST FLOOR PLAN  
SCALE: 1/4" = 1'-0"  
PLAN NORTH TRUE NORTH



Orange County Government  
**Orange County Sheriff's Office Central Operations Center**  
**Sheriff's Office Command and Monitor Center**  
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11/18/2016 Permit Review Responses 1

**LIFE SAFETY PLAN**  
SCALE: AS INDICATED  
DRAWN BY: MA / AC  
CHECK BY: AC / JB  
DATE: 09/15/2016  
PROJECT NUMBER: 15012-0011

**G101**





- DEMOLITION KEYNOTES** # - KEYNOTE NUMBER
- EXISTING 1HR RATED PARTITION TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION - TYPICAL.
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  - EXISTING STRUCTURAL ELEMENTS AND FIRE PROTECTION DEVICES TO MAINTAIN AT ALL TIMES DURING CONSTRUCTION PER FBC 3302.1. CONTRACTOR TO REPLACE OR PATCH ANY DAMAGE EXISTING STRUCTURAL OR FIRE PROTECTION DURING CONSTRUCTION.



Orange County Government

**Orange County Sheriff's Office Central Operations Center**

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11/18/2016	Permit Review Responses	1

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**FIRST FLOOR DEMOLITION PLAN**

SCALE: AS INDICATED

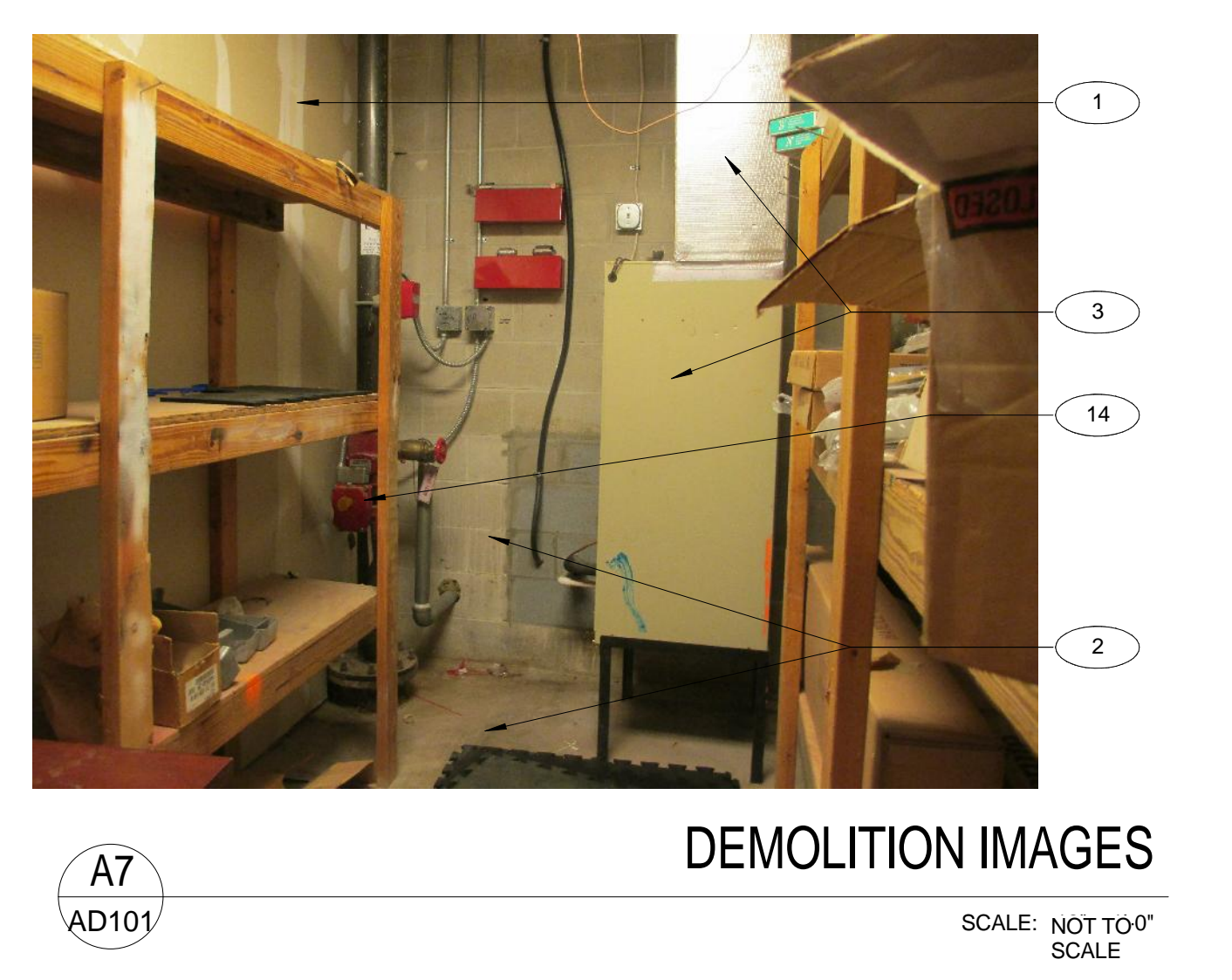
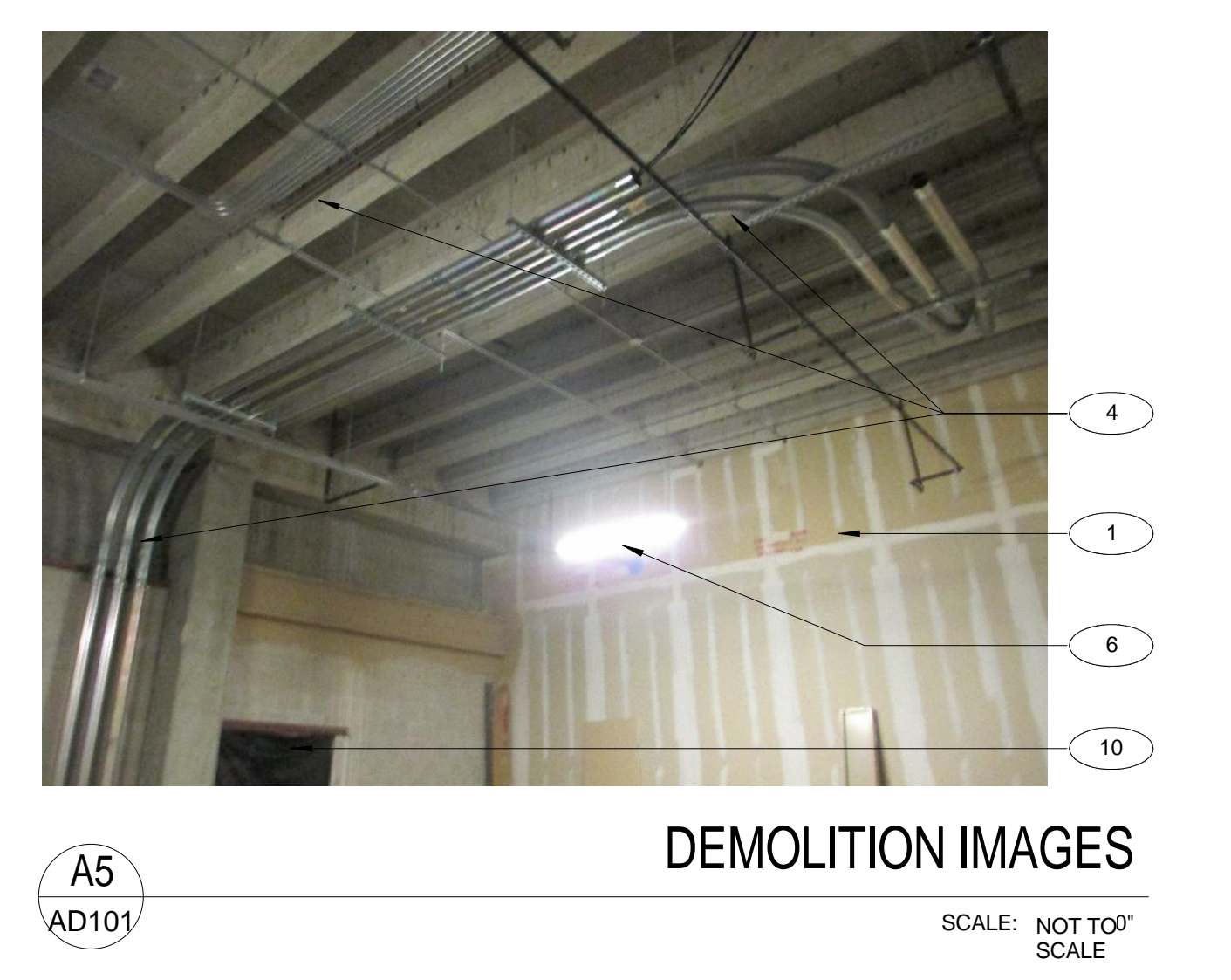
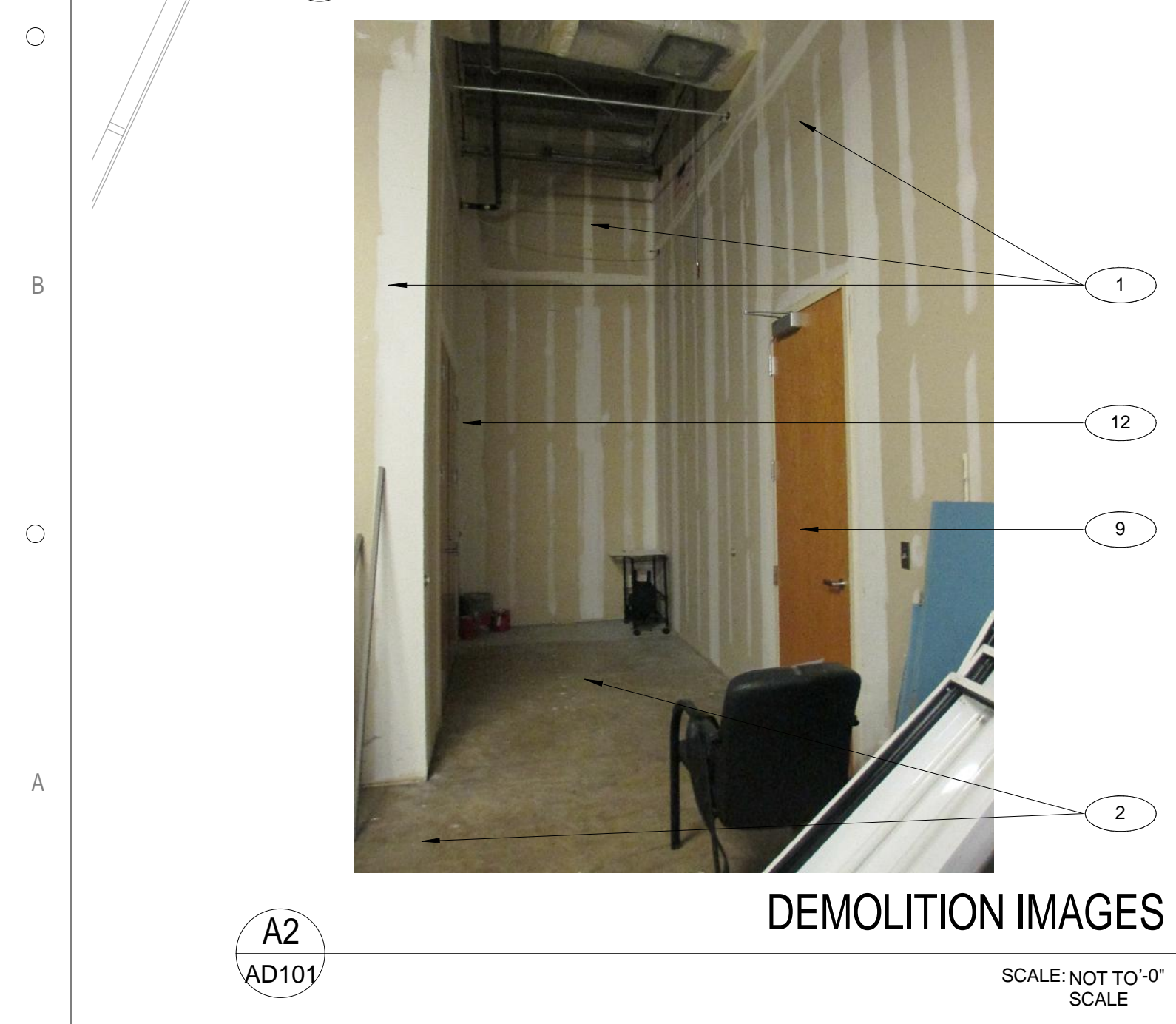
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CHECK BY: AC / JB

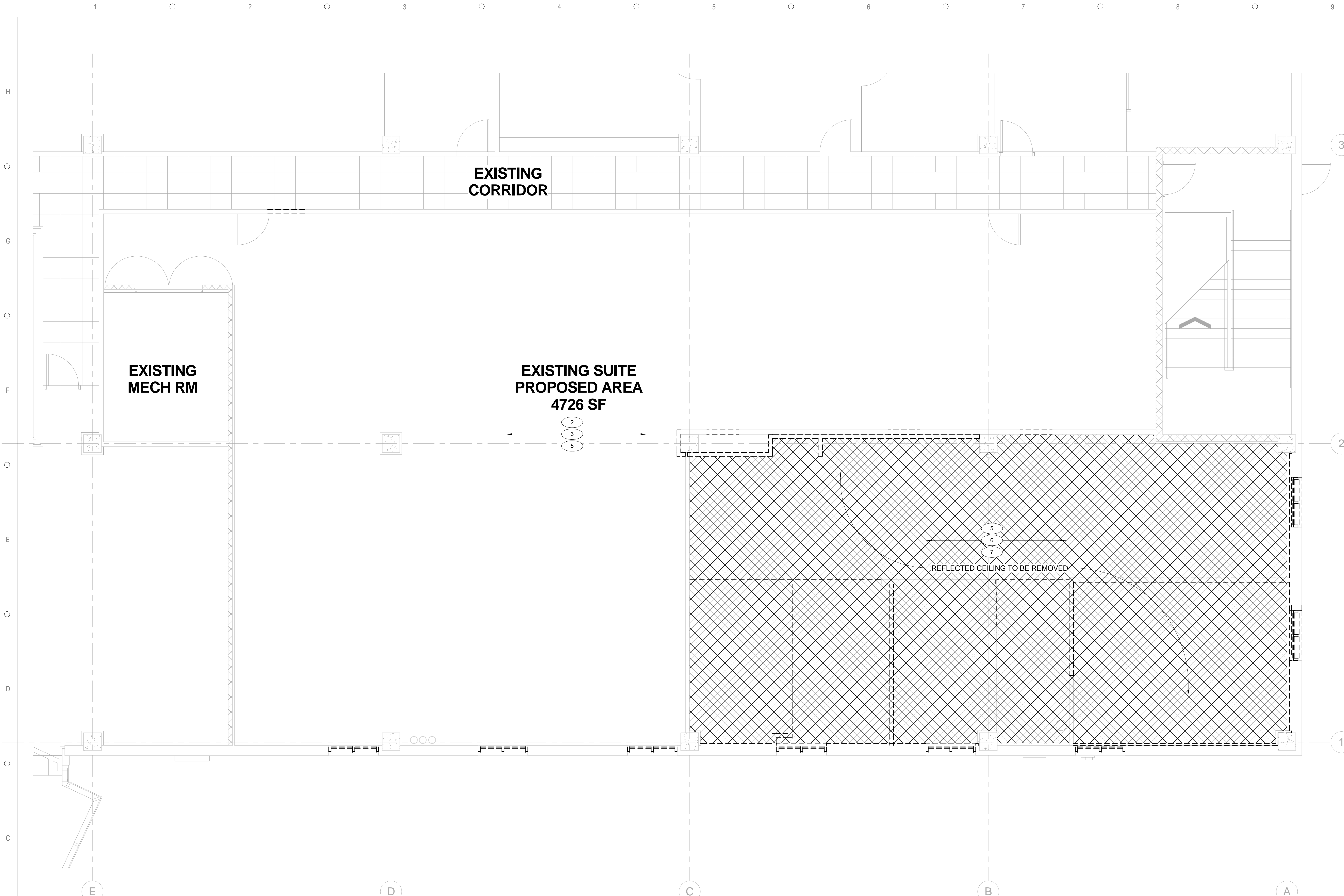
DATE: 09/15/2016

PROJECT NUMBER: 15012-0011

**AD101**







- ### DEMOLITION KEYNOTES
- # KEYNOTE NUMBER
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Consultants



Orange County Government

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11/18/2016	Permit Review Responses	1

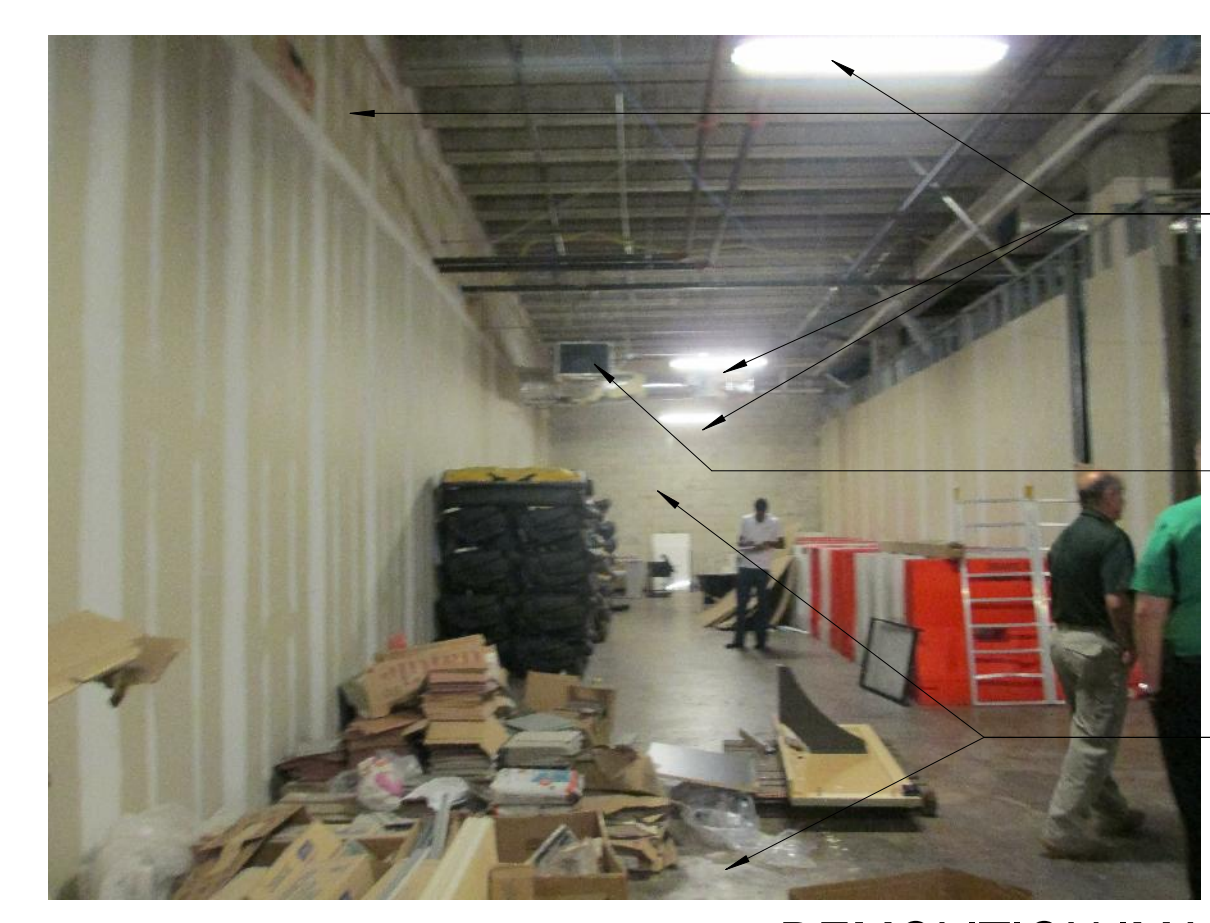
### REFLECTED CEILING DEMOLITION PLAN

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

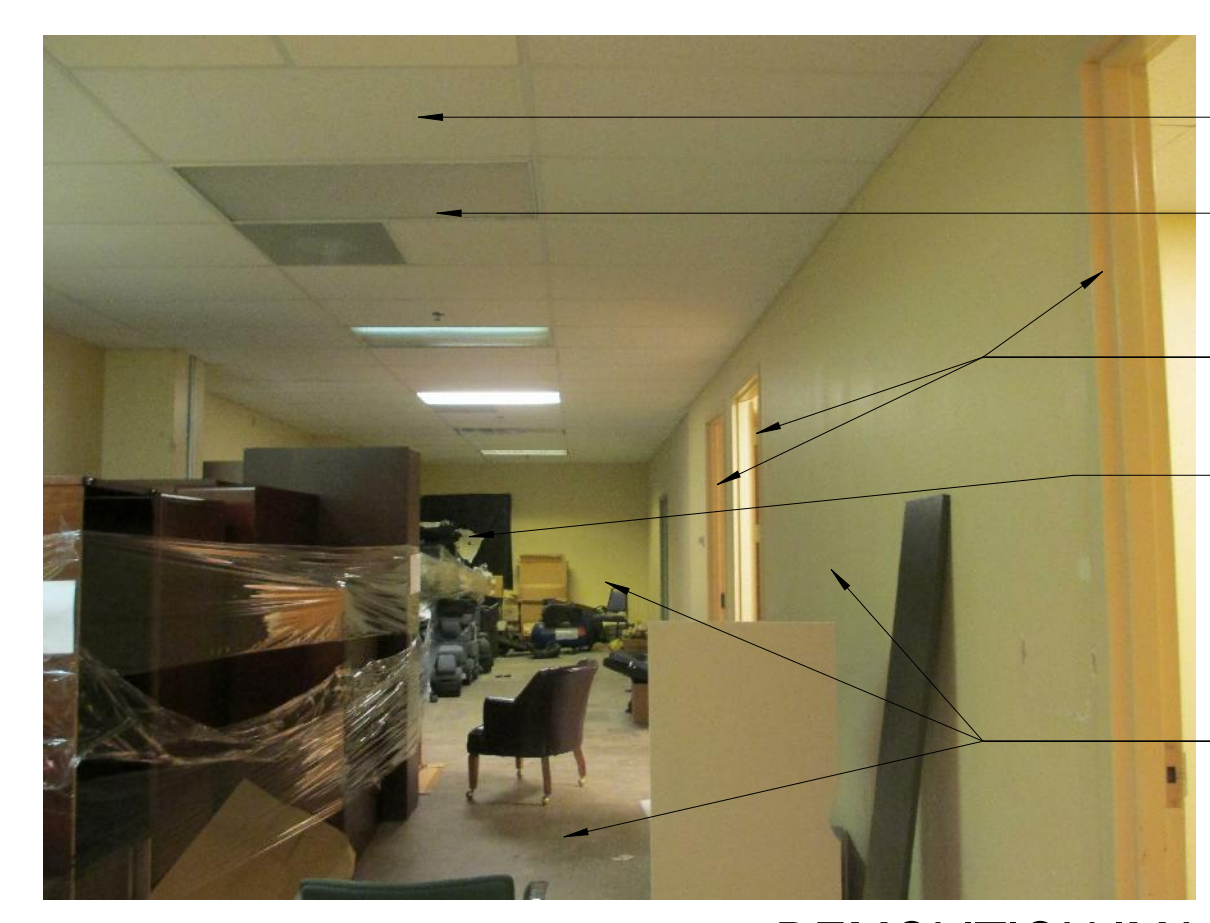
PLAN NORTH TRUE NORTH

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**DEMOLITION IMAGES**  
SCALE: NOT TOO SCALE



**DEMOLITION IMAGES**  
SCALE: NOT TOO SCALE

### REFLECTED CEILING DEMOLITION PLAN

SCALE: AS INDICATED  
DRAWN BY: MA / AC  
CHECK BY: AC / JB  
DATE: 09/15/2016  
PROJECT NUMBER: 15012-0011

**AD121**





F3  
AD221

DEMOLITION IMAGES

SCALE: 12" = 1'-0"



F5  
AD221

DEMOLITION IMAGES

SCALE: NOT TO SCALE



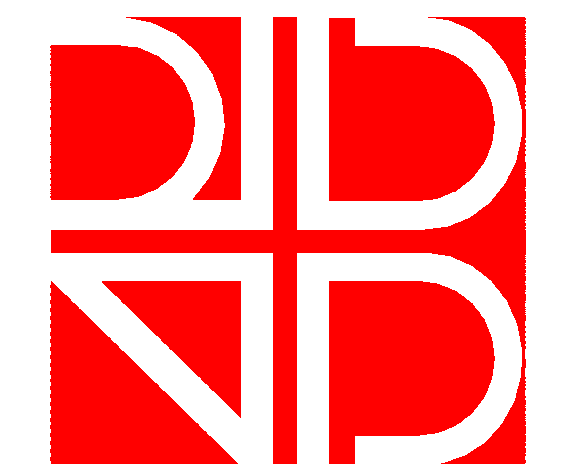
F7  
AD221

DEMOLITION IMAGES

SCALE: NOT TO SCALE

DEMOLITION KEYNOTES # KEYNOTE NUMBER

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- 7 REMOVE ALL REFLECTED CEILING PANELS AND GRID - PROTECT WALL FROM DAMAGE DURING DEMOLITION.
- 8 REMOVE WALL AS REQUIRED TO RECEIVE NEW OPENINGS - PROTECT ADJACENT WALL FROM DAMAGE - TYPICAL.
- 9 REMOVE EXISTING DOORS AND PREPARE SURFACE FOR NEW CONSTRUCTION. REFER TO ARCHITECTURAL FLOOR PLAN.
- 10 EXTERIOR STOREFRONT WINDOWS TO BE REMOVED AND REPLACE. PROTECT WALL AND ALL ADJACENT FROM DAMAGE DURING CONSTRUCTION. REPAIR TO MATCH EXISTING.
- 11 EXTERIOR WALL TO BE PAINTED TO MATCH EXISTING. PAINT TO BE APPLIED AT THE ENTIRE HATCHED AREAS. REFER TO EXISTING ELEVATIONS.
- 12 EXISTING DOOR TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 13 EXISTING CORRIDOR TO REMAIN CLEAR OF ANY DEBRIS DURING CONSTRUCTION. CLEAR PATH TO BE MAINTAINED FOR THE OCCUPIED BUILDING. PER FBC 3302.1
- 14 EXISTING FIRE RISER AND FIRE RISER ROOM TO REMAIN. REFER TO ARCHITECTURAL FLOOR PLAN FOR ADDITIONAL INFORMATION.
- 15 EXISTING STRUCTURAL ELEMENTS AND FIRE PROTECTION DEVICES TO MAINTAIN AT ALL TIMES DURING CONSTRUCTION PER FBC 3302.1. CONTRACTOR TO REPLACE OR PATCH ANY DAMAGE EXISTING STRUCTURAL OR FIRE PROTECTION DURING CONSTRUCTION.



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EXTERIOR ELEVATION  
DEMOLITION

SCALE: AS INDICATED

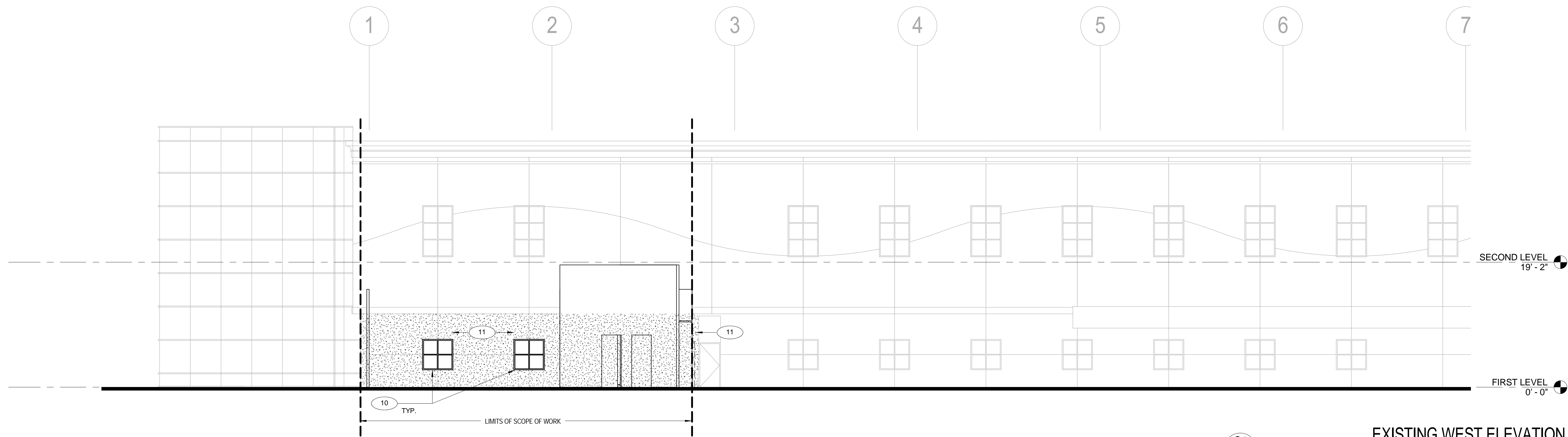
DRAWN BY: MA / AC

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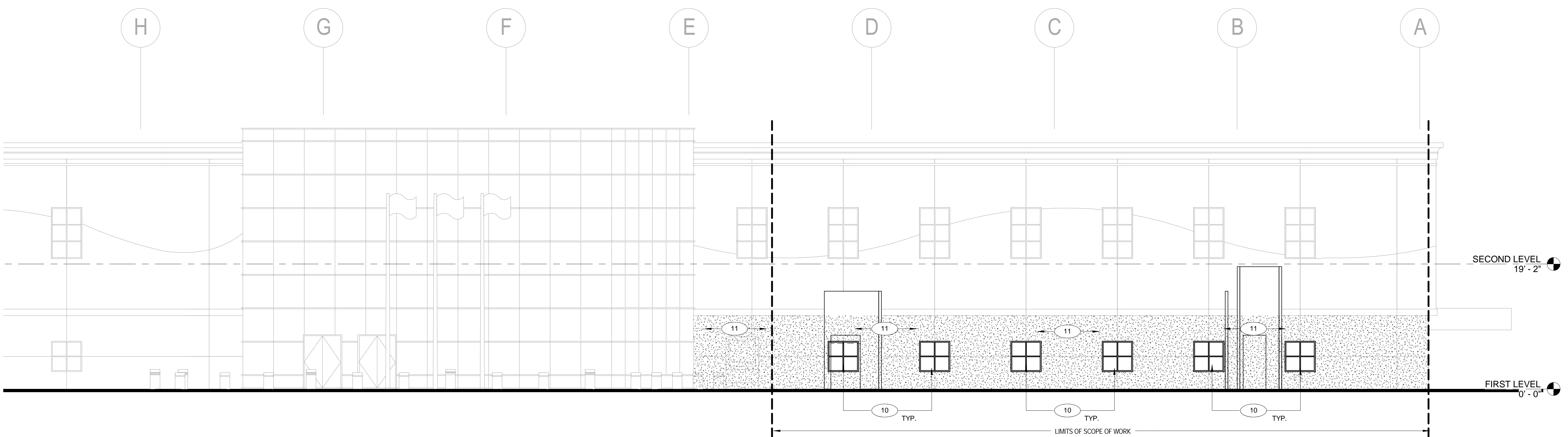
AD221



EXISTING WEST ELEVATION

C1  
AD221

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



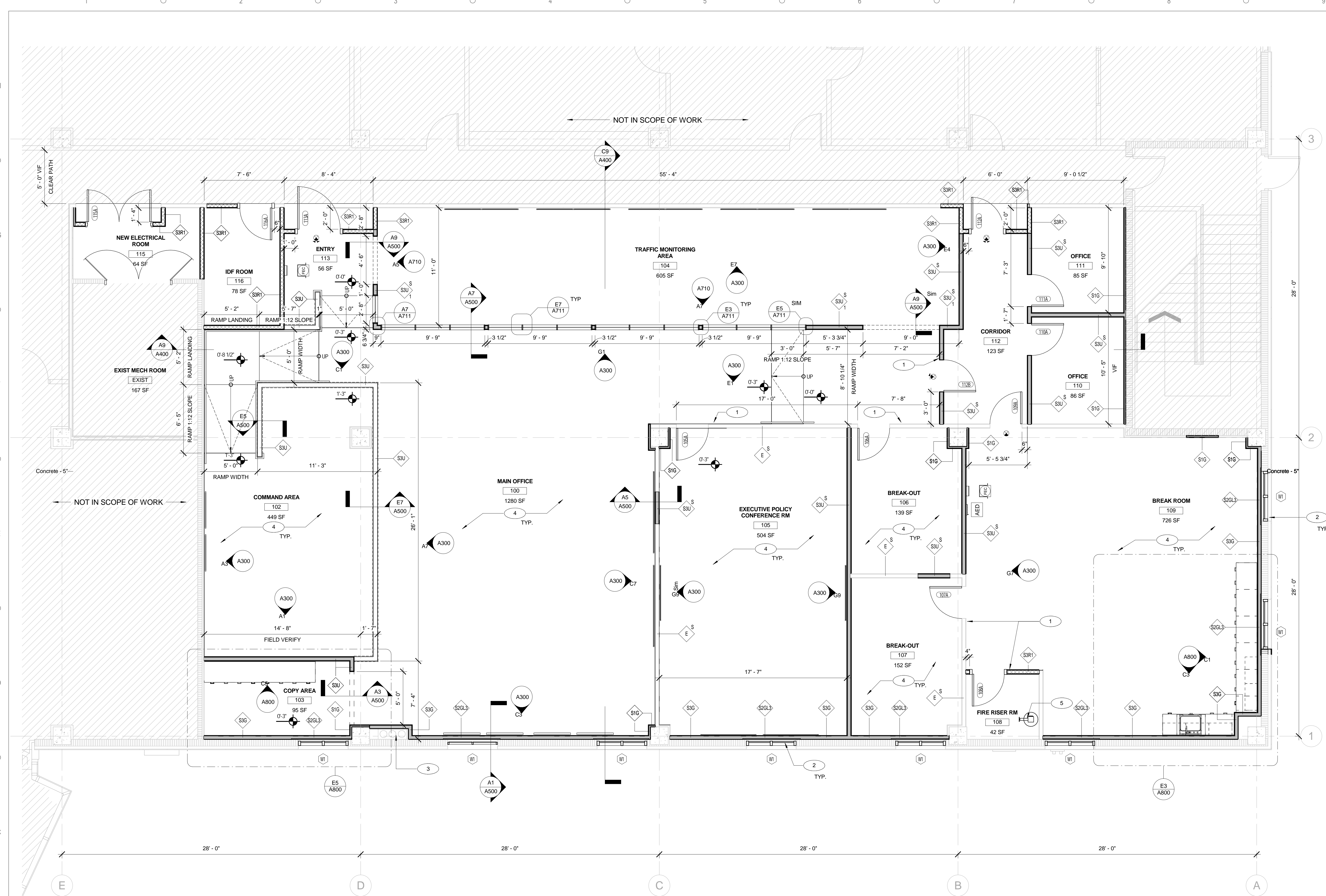
EXISTING NORTH ELEVATION

A1  
AD221

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

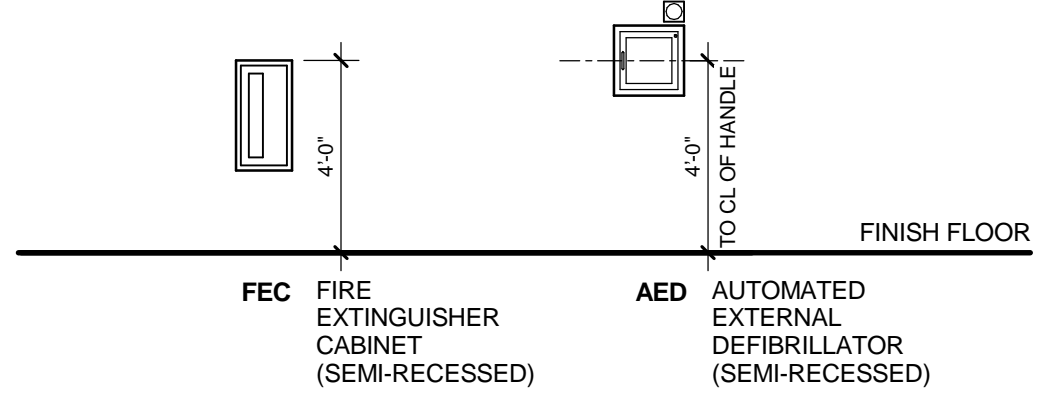
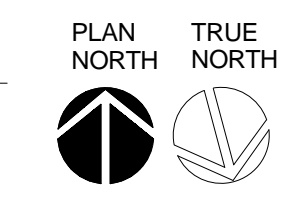
NOT TO SCALE





**FIRST FLOOR PLAN**

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



**MOUNTING HEIGHTS**

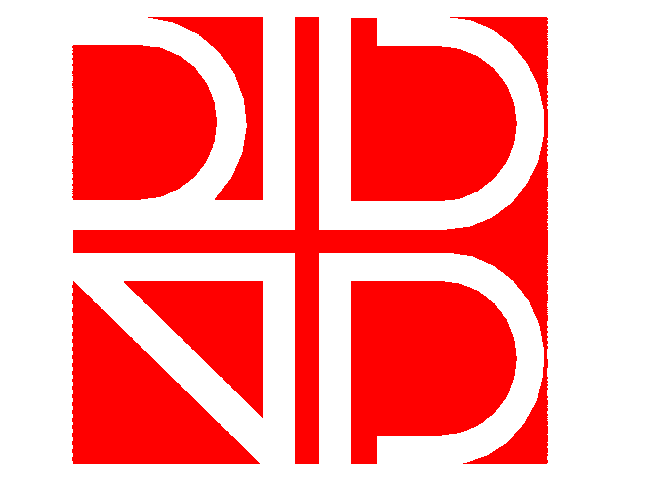
SCALE: 1/4" = 1'-0"

**FLOOR PLAN KEYNOTES**

1. ROOM SIGNAGE OWNER PROVIDED. CONTRACTOR INSTALLED. PER ADA AND ORANGE COUNTY STANDARDS. TYPICAL.
2. BULLET RESISTANT WINDOW SYSTEM APPROVED EQUAL - INSTALL PER MANUFACTURER'S RECOMMENDATIONS - SEE DETAILS FOR ADDITIONAL INFORMATION.
3. EXISTING PULL-BOX TO REMAIN.
4. REFER TO FINISH PLAN FOR FINISH SCHEDULES.
5. EXISTING FIRE RISER TO REMAIN.

**GENERAL PLAN NOTES**

- A. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND SCHEDULING CONSTRUCTION. OBTAINING WRITTEN APPROVAL FROM THE OWNER OF DEMOLITION SCHEDULE IS REQUIRED.
- B. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. NOTIFY OWNER IN WRITING OF ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
- C. PROTECT ALL EXISTING ITEMS TO REMAIN FROM DAMAGE. CONTRACTOR SHALL BEAR ALL COSTS FOR REPAIRING/REPLACING, REFINISHING ITEMS OF EXISTING ITEMS (INCLUDING FIRE/SMOKE RATING) DAMAGED.
- D. CONTRACTOR IS TO MAINTAIN EXISTING FIRE, SMOKE, AND BALLISTIC RATING AT ALL TIMES. CONTRACTOR IS TO PATCH AND REPAIR ANY DAMAGES TO EXISTING CONDITIONS - REPAIRS MUST MEET OWNER'S SATISFACTION.
- E. CONTRACTOR IS TO ENSURE THAT DOOR, WINDOW AND/OR RATING INFORMATION, STENCILS AND LABELS ARE NOT PAINTED OR COVERED. CONTRACTOR IS TO REPAIR/REPLACE DAMAGED OR COVERED LABELS.
- F. PROVIDE, ERECT AND MAINTAIN TEMPORARY PARTITIONS, BARRIERS, GUARD RAILS AND OTHER SAFETY ITEMS AS REQUIRED BY REGULATORY AGENCIES. AS REQUIRED TO PROTECT OCCUPANTS OR AS NECESSARY TO PROTECT MATERIALS, SURFACES AND FINISHES.
- G. WHEN CUTTING INTO EXISTING WALLS, SLAB AND ROOF, CONTRACTOR SHALL TAKE EXTREME CARE AND CAUTION TO AVOID DAMAGING THE STRUCTURAL INTEGRITY OF THESE AREAS. CONTRACTOR SHALL DOCUMENT ALL WALL, ROOF CUTS AND SLAB CUTS WHERE REINFORCING MEMBERS ARE CUT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, RESTORING AND MAINTAINING STRUCTURAL PERFORMANCES WHERE THE STRUCTURAL SYSTEM HAS BEEN COMPROMISED.
- H. CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON CONSTRUCTION DOCUMENTS) THAT ARE TO REMAIN PRIOR TO DEMOLITION OR CUTTING INTO ANY WALL. PERMANENT PROCEDURES ARE TO BE MADE TO ROUTE OR BYPASS UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION).
- J. WHERE SURFACE MOUNTED ITEMS ARE REMOVED FROM WALLS (IE. SIGNAGE, RACEWAYS, EQUIPMENT, ETC) - PATCH/REPAIR WALLS AS REQUIRED TO MATCH EXISTING ADJACENT FINISHES.
- K. CONTRACTOR TO COMPLY WITH ALL ADA STANDARDS AND REQUIREMENT - TYPICAL.
- L. BEFORE COMMENCEMENT OF CONSTRUCTION, CONTRACTOR IS TO PROVIDE ALL PERMITS AND COMPLY WITH ALL APPLICABLE ORDINANCES, REGULATIONS AND CODES IN THE REMOVAL AND DISPOSAL OF MATERIAL. DISPOSAL OF ALL RUBBISH AND DEBRIS IS TO BE IN AN ENVIRONMENTALLY SAFE MANNER IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND JURISDICTIONS.



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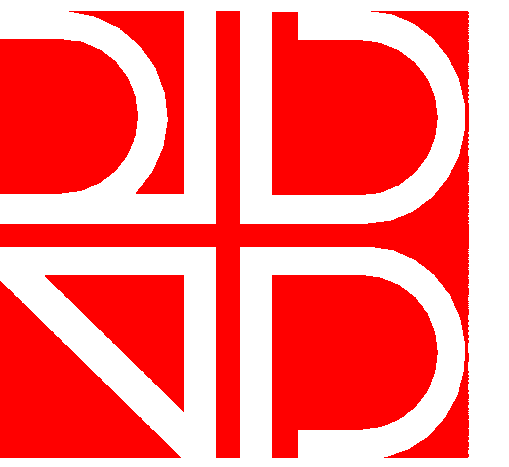
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**FIRST FLOOR PLAN**

SCALE: AS INDICATED  
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DATE: 09/15/2016  
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**A101**





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REFLECTED CEILING  
PLAN

SCALE: AS INDICATED

DRAWN BY: MA / AC

CHECK BY: AC / JB

DATE: 09/15/2016

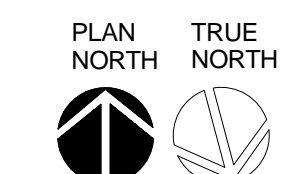
PROJECT NUMBER: 15012-0011

A201



REFLECTED CEILING PLAN

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



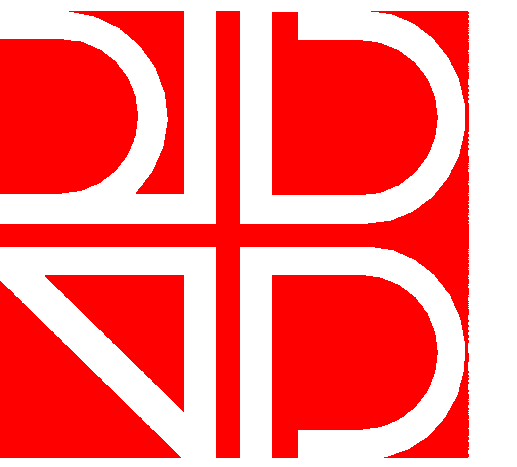
REFLECTED CEILING LEGEND

- 2x2 RECESSED DIRECT / INDIRECT LED TROFFER
- 4' SUSPENDED DIRECT / INDIRECT LED LINEAR PENDANT
- 8' SUSPENDED DIRECT / INDIRECT LED LINEAR PENDANT
- 4' RECESSED LINEAR LED DIRECT WALL WASH FIXTURE
- SPRINKLER HEAD
- WIRELESS ACCESS POINT
- WALL MOUNTED EXIT SIGN LIGHT FIXTURE
- CEILING MOUNTED EXIT SIGN LIGHT FIXTURE
- WALL MOUNTED STROBE LIGHT
- WALL MOUNTED HORN STROBE LIGHT
- EXHAUST FAN
- HVAC DIFFUSER
- HVAC RETURN AIR
- ACCESS PANEL
- 2x2 ACOUSTICAL CEILING GRID (REFER TO A601 FOR ACOUSTICAL PANEL CEILING TYPE)

REFLECTED CEILING GENERAL NOTES

1. CONTRACTOR TO PROTECT EXISTING MECHANICAL UNITS AND DUCTWORK TO REMAIN DURING EXTENT OF CONSTRUCTION. COORDINATE WITH ENGINEER DRAWINGS AND SPECIFICATION MANUAL.
2. SPRINKLERS, EXIT SIGNS, AND SPEAKERS SHALL BE LOCATED IN ALIGNMENT W/ LIGHT FIXTURES AND OTHER CEILING ELEMENTS. WHERE THERE ARE NO LIGHT FIXTURES, AND/OR SPRINKLERS SHALL BE FULLY CONCEALED WITH WHITE CAPS. CONTRACTOR TO COORDINATE.
3. G.C. TO COORDINATE THE ALIGNMENT OF THE CEILING GRID AND PARTITIONS. ACCESS PANELS SHALL BE IDENTIFIED TO ARCHITECT PRIOR TO THE INSTALLATION IF REQUIRED.
4. CEILING HEIGHTS TO BE COORDINATED WITH MECHANICAL UNITS, FIRE SPRINKLERS, STROBE LIGHTS, AND LIGHT FIXTURES AGAINST EXISTING CONDITIONS. VERIFY THAT DIMENSIONS ARE CONSISTENT WITH REQUIREMENTS INDICATED IN THE DOCUMENTS. REFER ANY DIMENSIONAL INCONSISTENCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO THE START OF PARTITION CONSTRUCTION.
5. HATCHED AREAS INDICATE AREAS/ITEMS NOT IN SCOPE OF WORK. COORDINATE WITH ENGINEERING DRAWINGS FOR FULL EXTENT OF SCOPE.
6. G.C. TO COORDINATE SECURITY ITEMS WITH TENANT.





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INTERIOR ELEVATIONS

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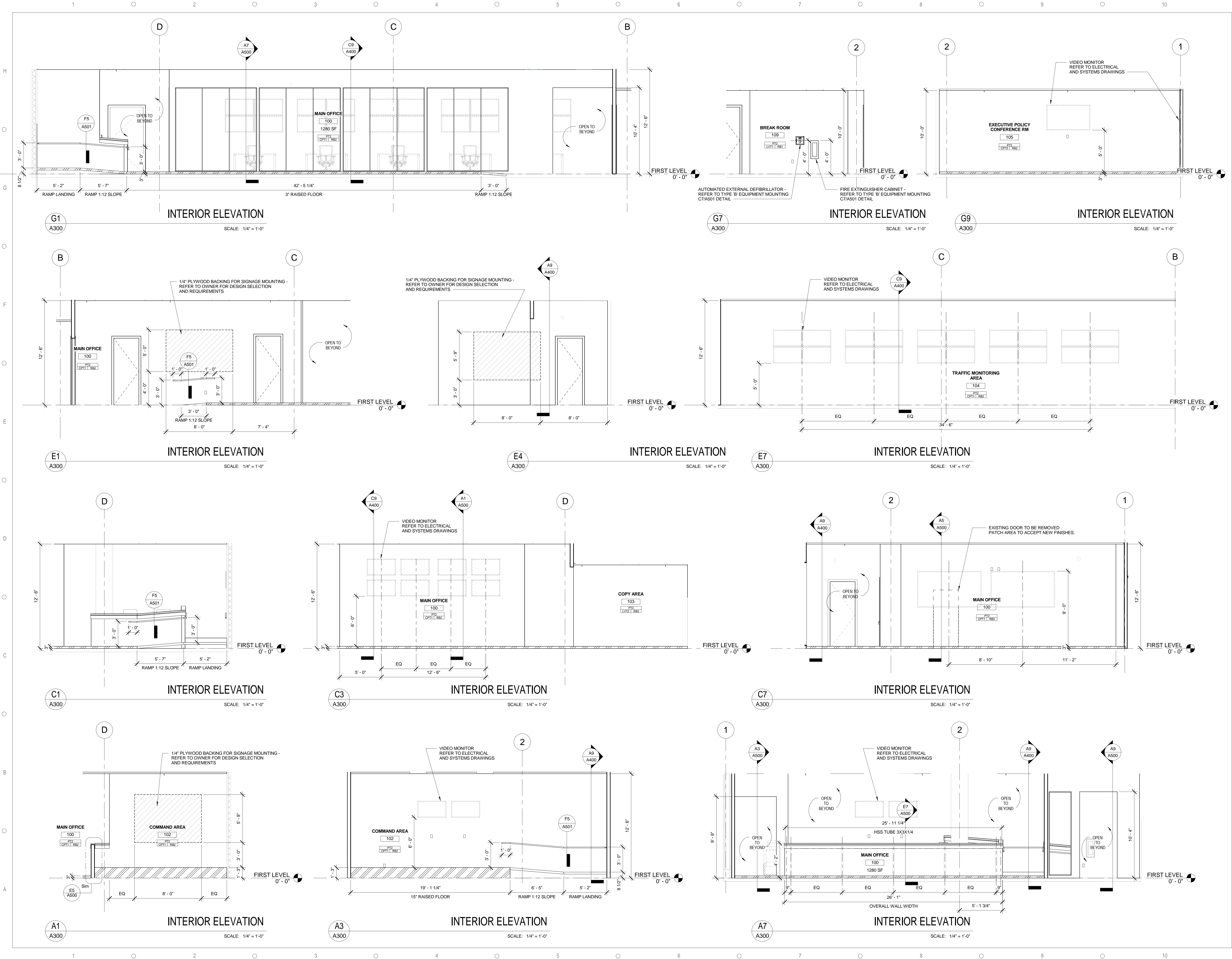
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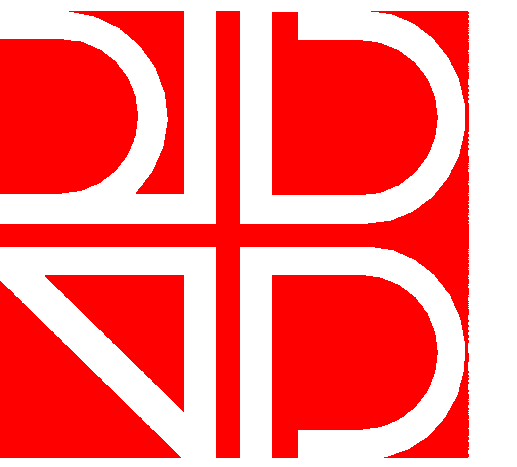
DATE: 09/15/2016

PROJECT NUMBER: 15012-0011

A300







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PARITAL BUILDING  
SECTIONS

SCALE: AS INDICATED

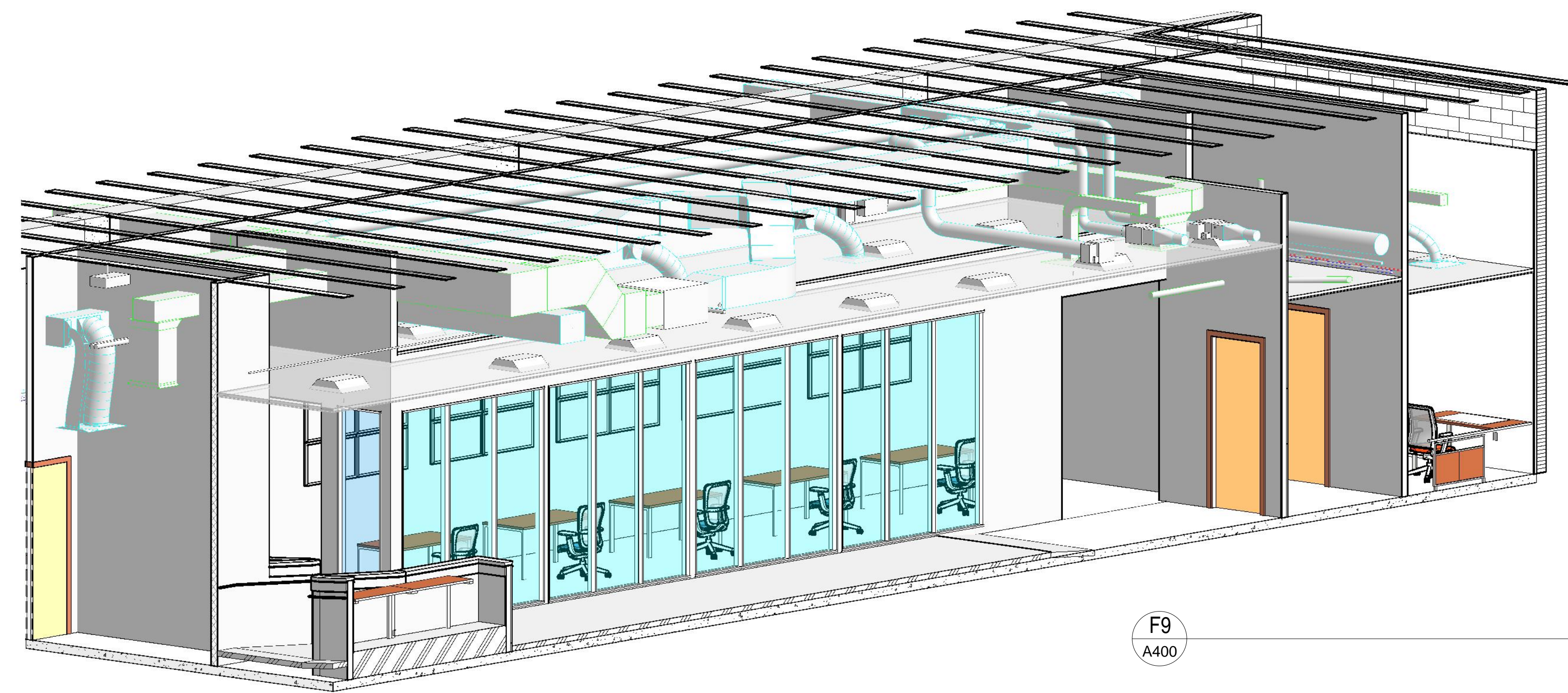
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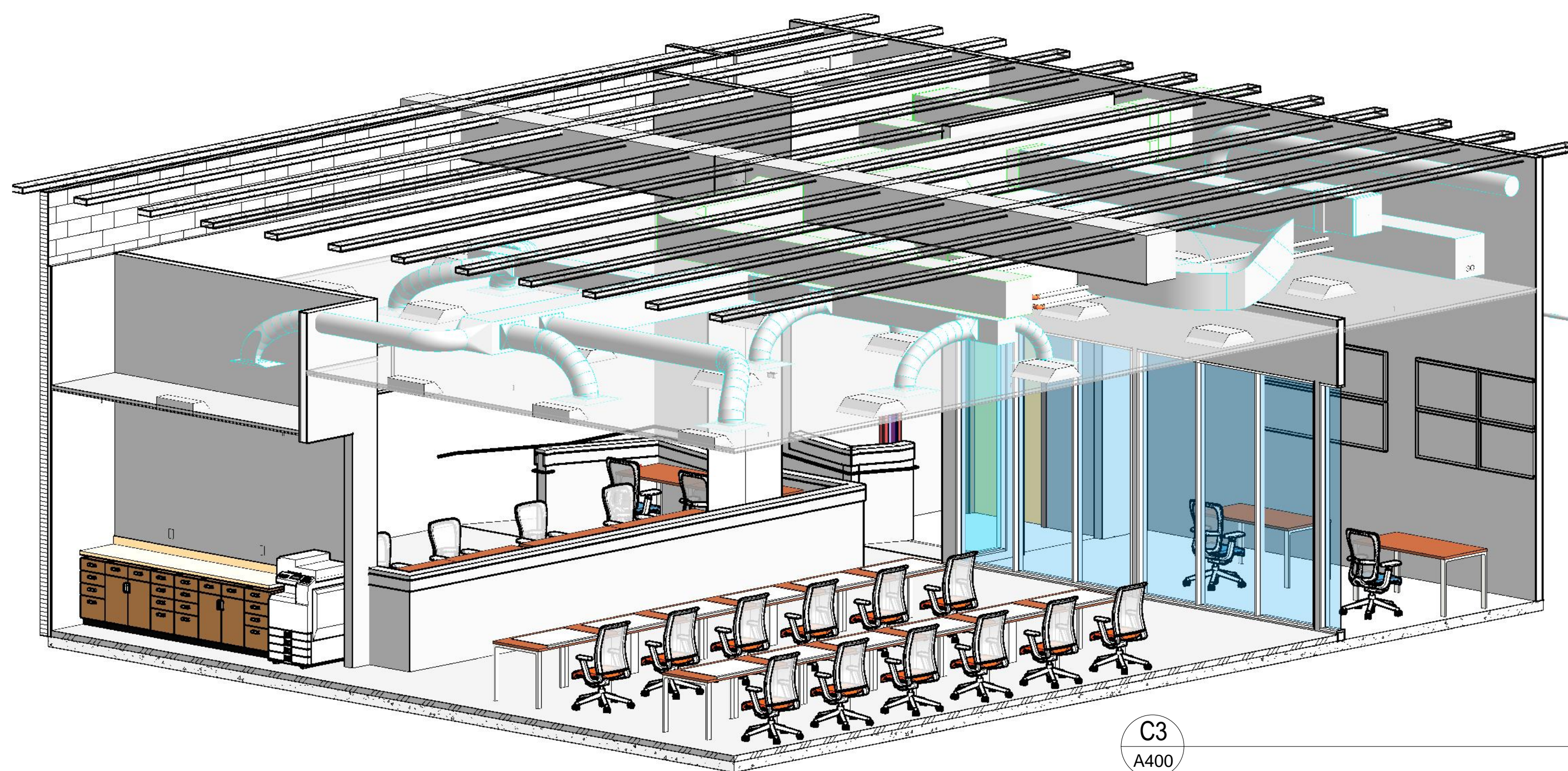
A400



F9  
A400

3D VIEW

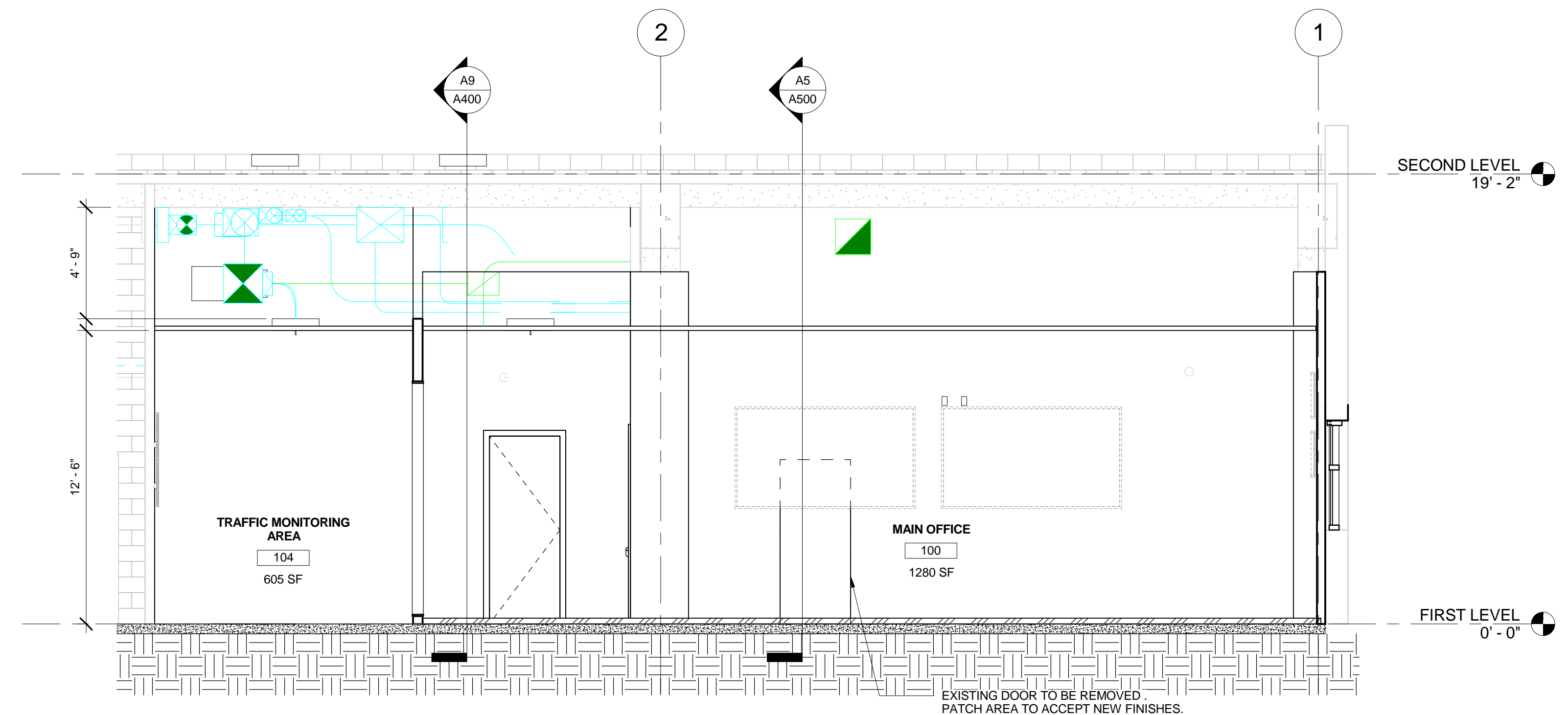
SCALE:



C3  
A400

3D VIEW

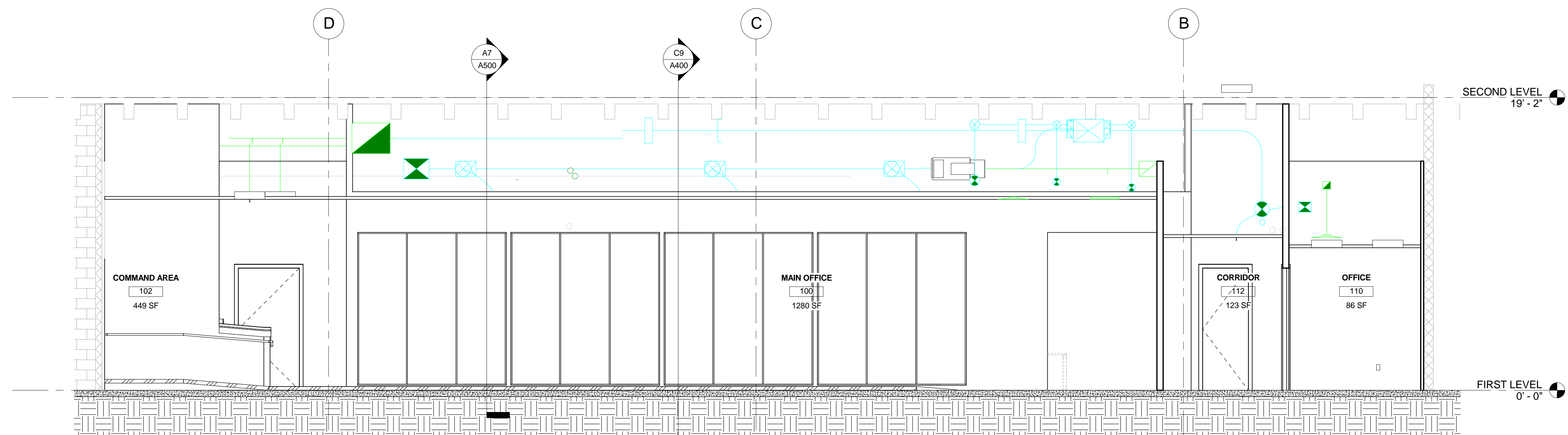
SCALE:



C9  
A400

PARTIAL BUILDING SECTION

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

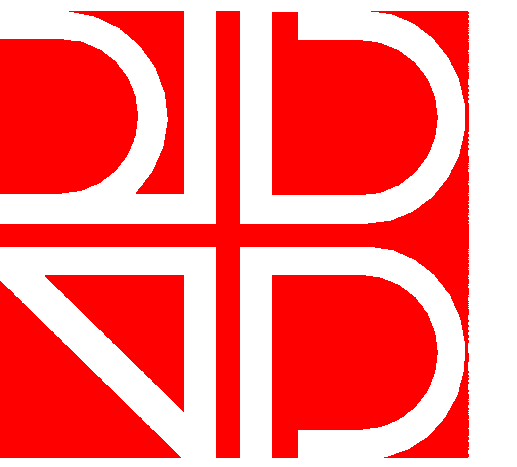


A9  
A400

PARTIAL BUILDING SECTION

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





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### WALL SECTIONS

SCALE: AS INDICATED

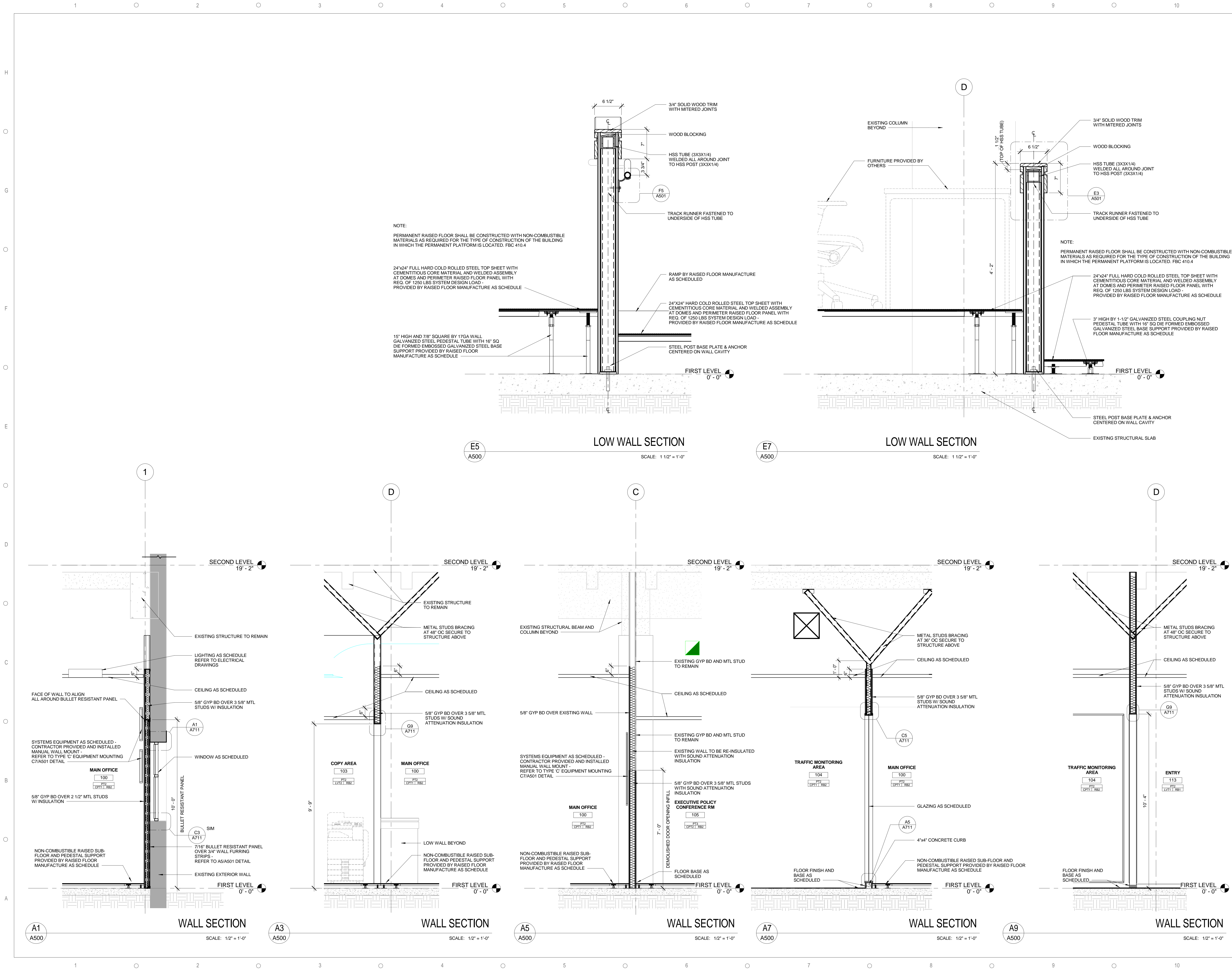
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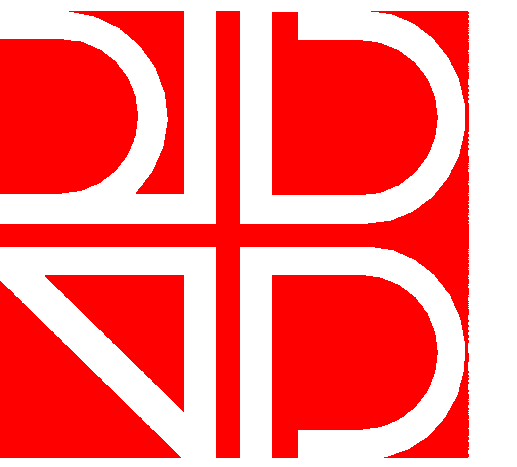
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# A500







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### WALL DETAILS

SCALE: AS INDICATED

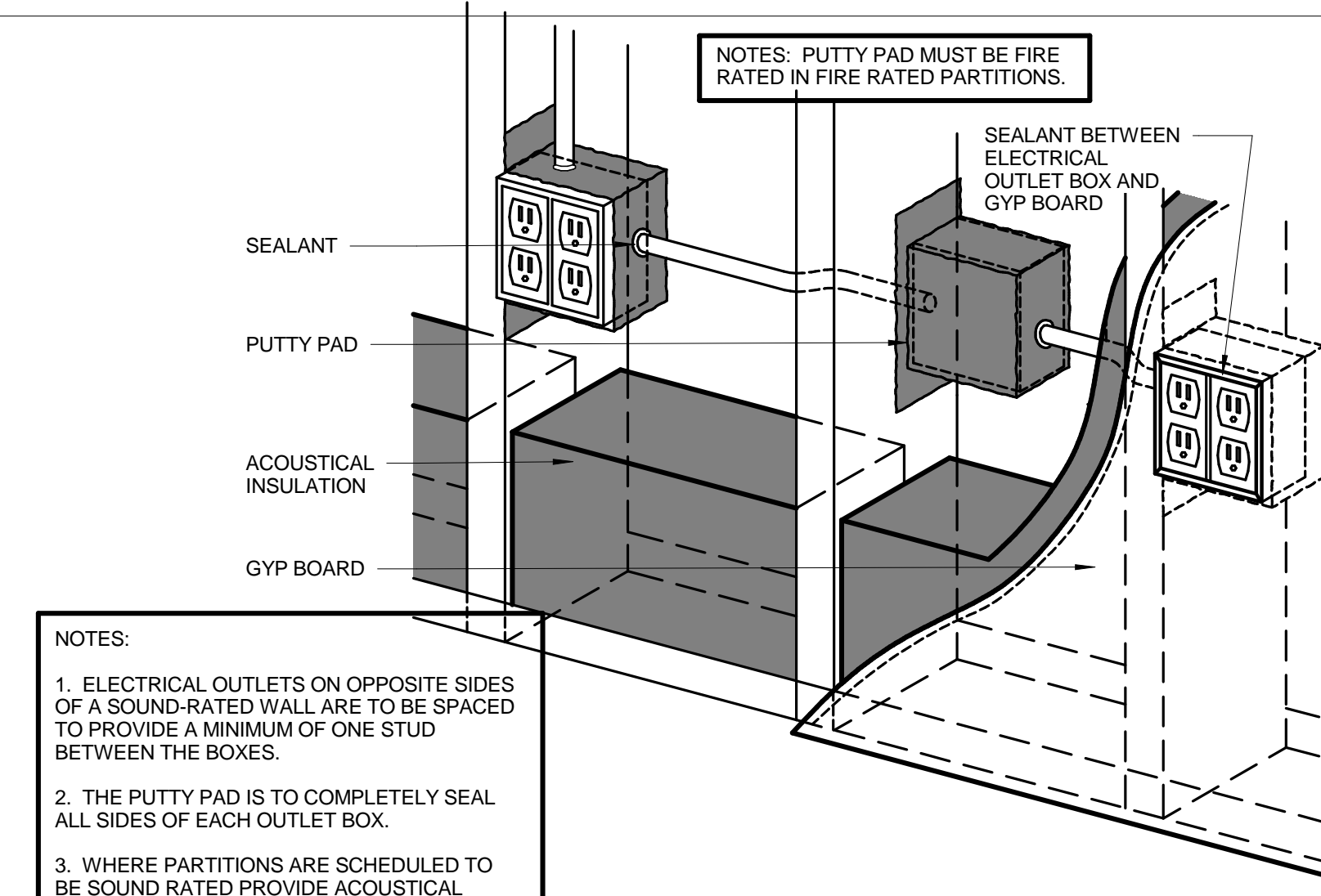
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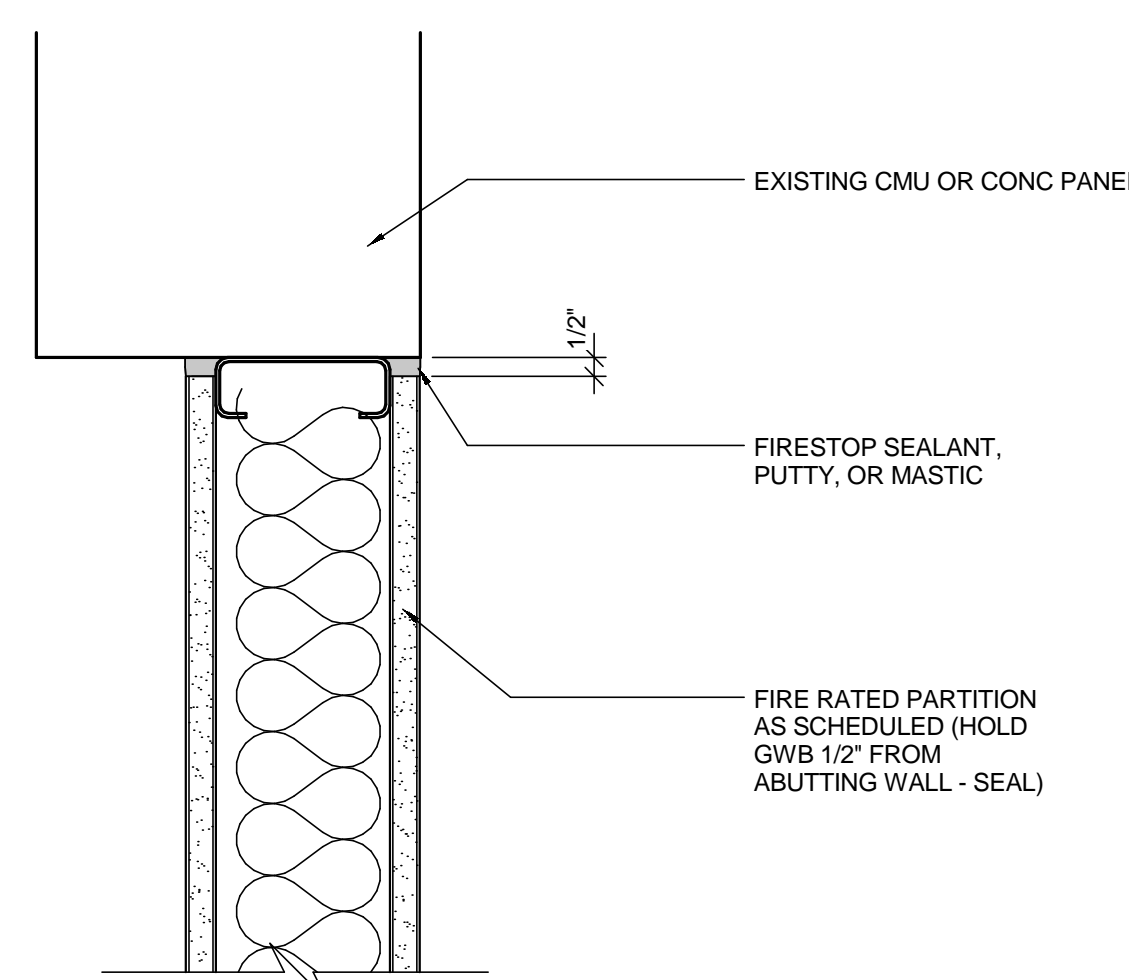
# A501



### SOUND ATTENUATION DETAIL

G5  
A501

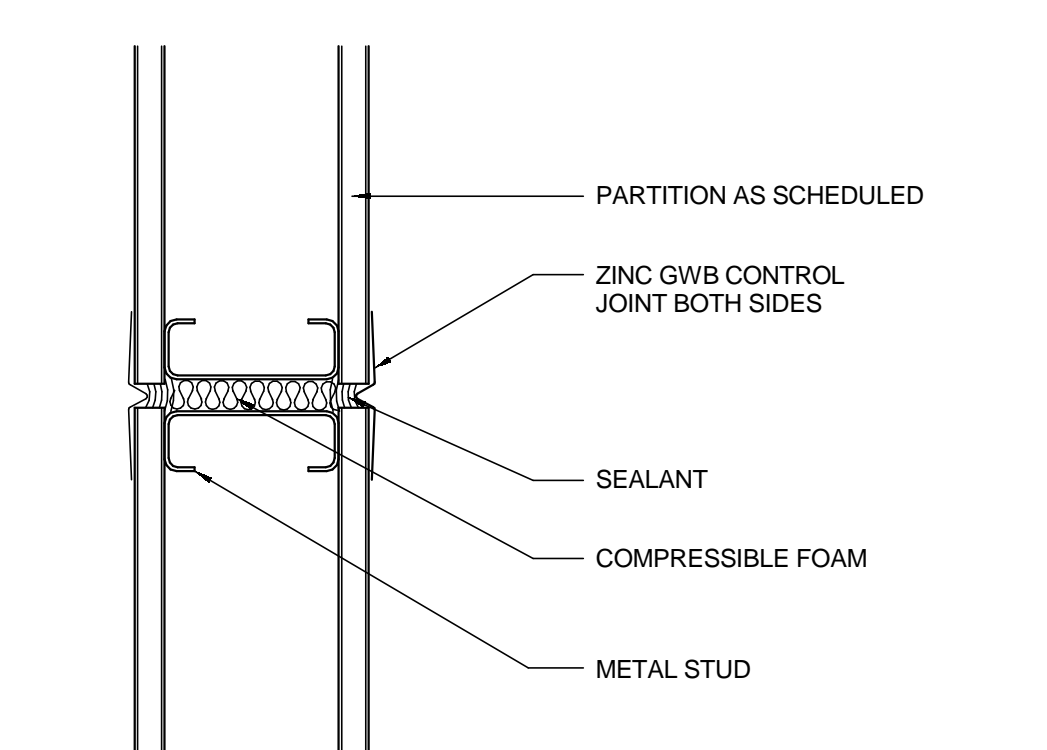
SCALE: 1 1/2" = 1'-0"



### PLAN DETAIL AT FIRE RATED PARTITION

G7  
A501

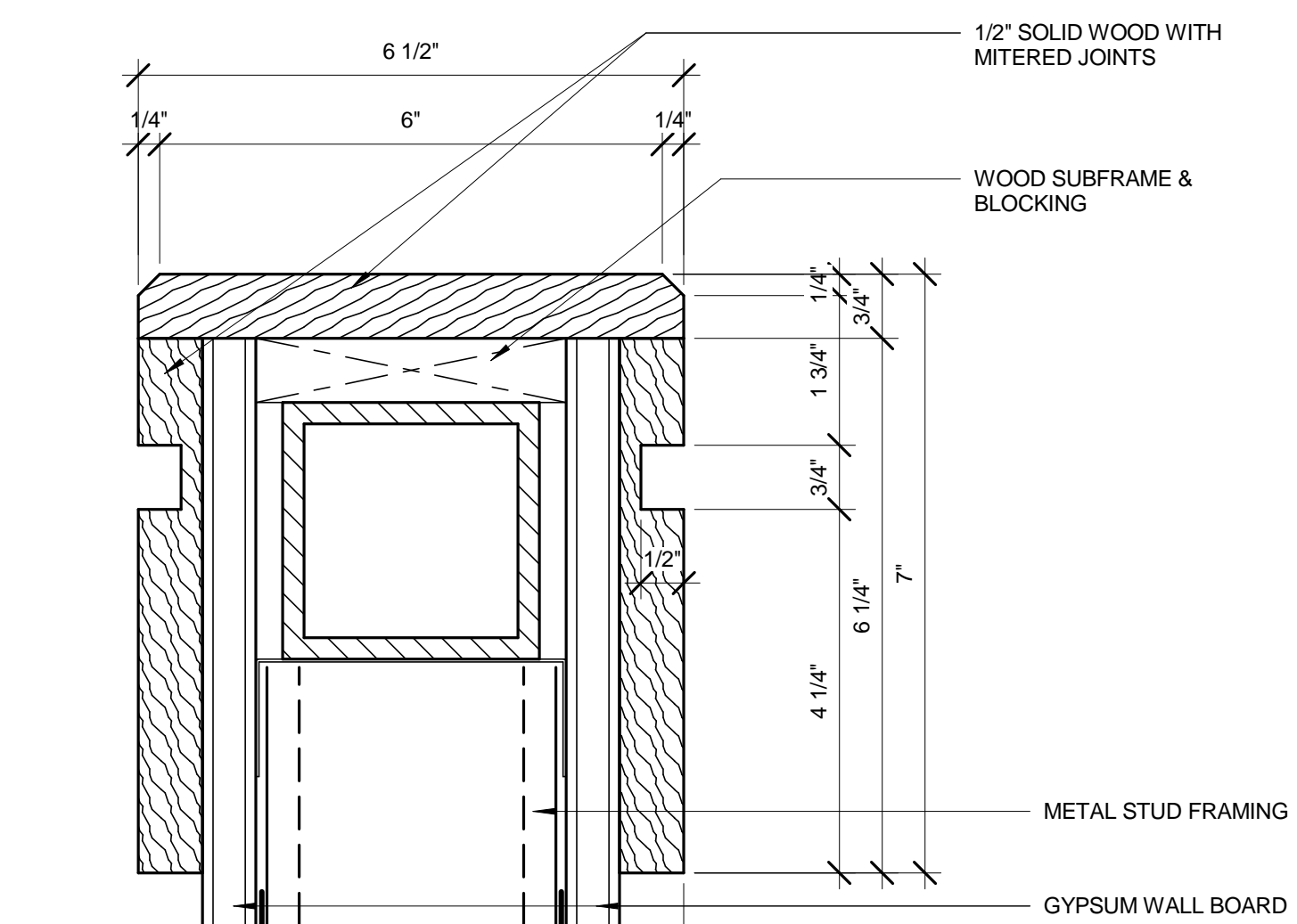
SCALE: 3" = 1'-0"



### CONTROL JOINT AT GYP BOARD WALL

G9  
A501

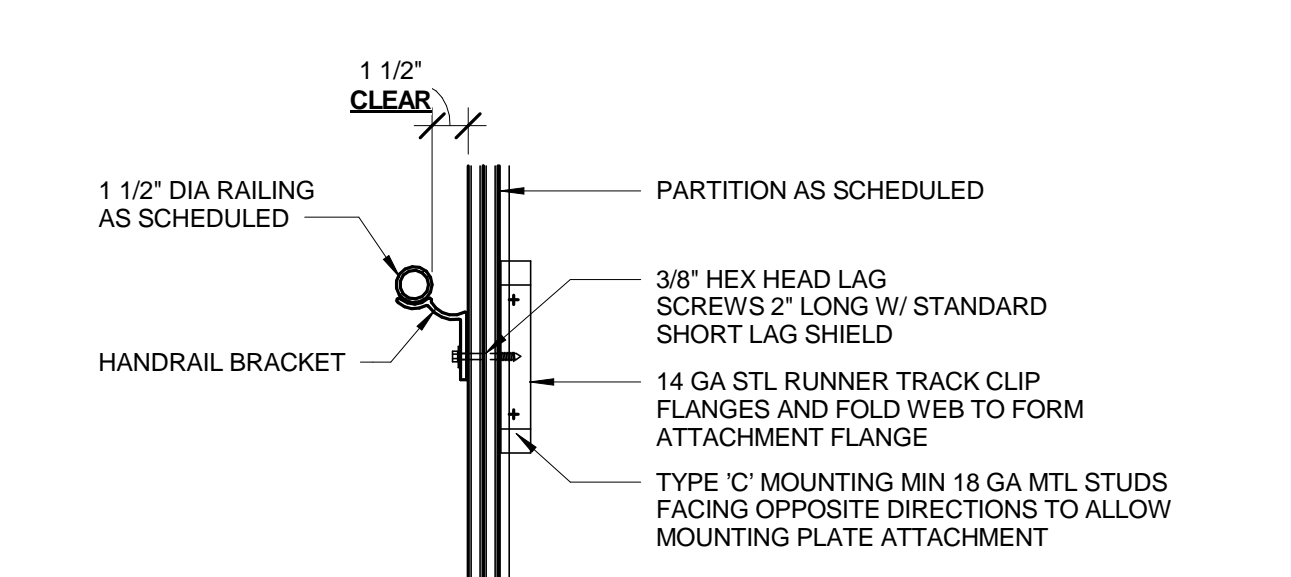
SCALE: 3" = 1'-0"



### WALL CAP DETAIL

E3  
A501

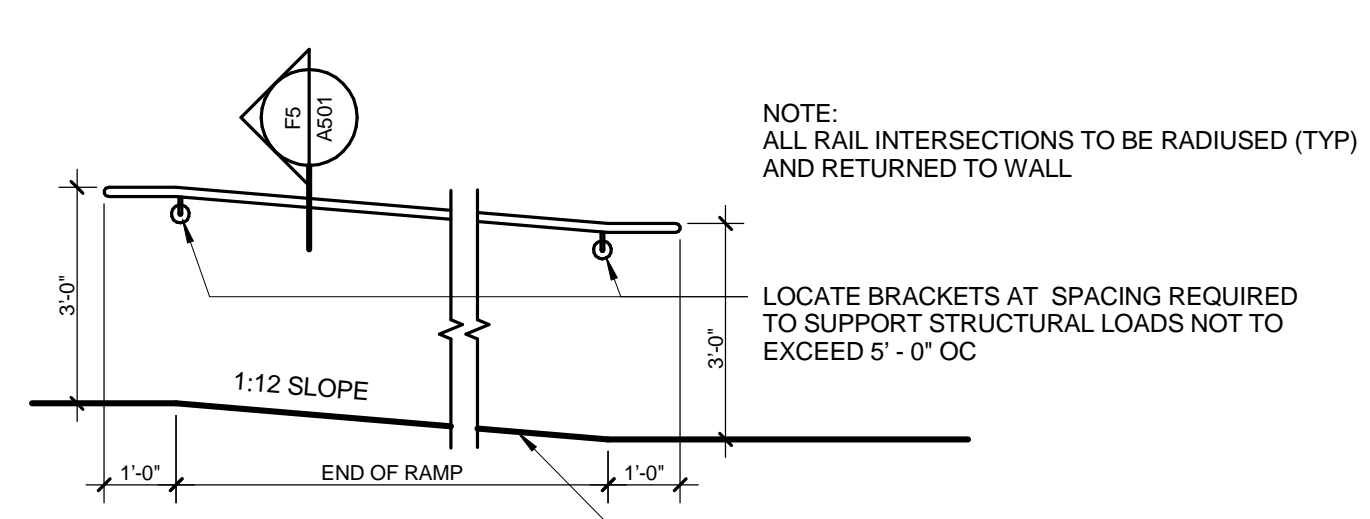
SCALE: 6" = 1'-0"



### HANDRAIL MOUNTING AT GYP BOARD WALL

F5  
A501

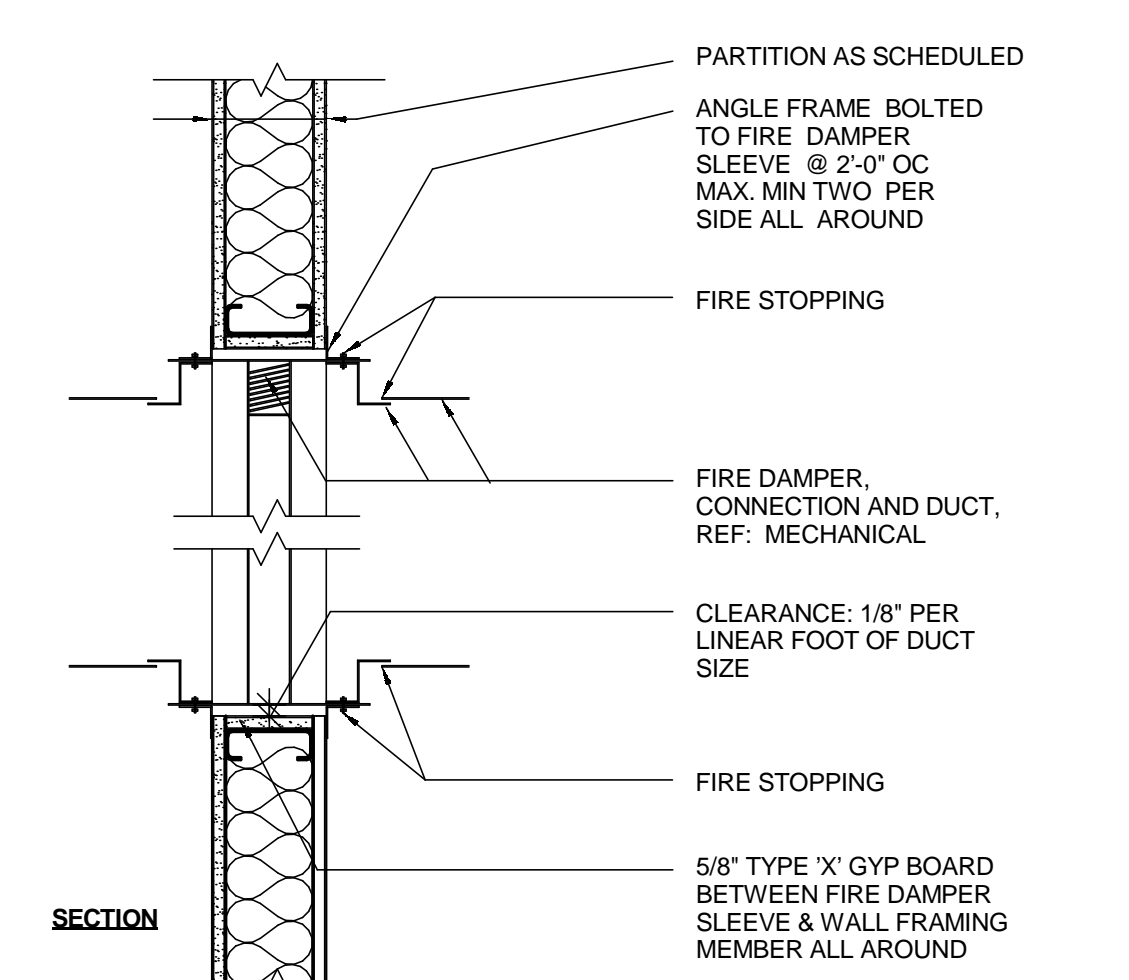
SCALE: 1 1/2" = 1'-0"



### RAMP RAILING AT WALL - TYPICAL

E5  
A501

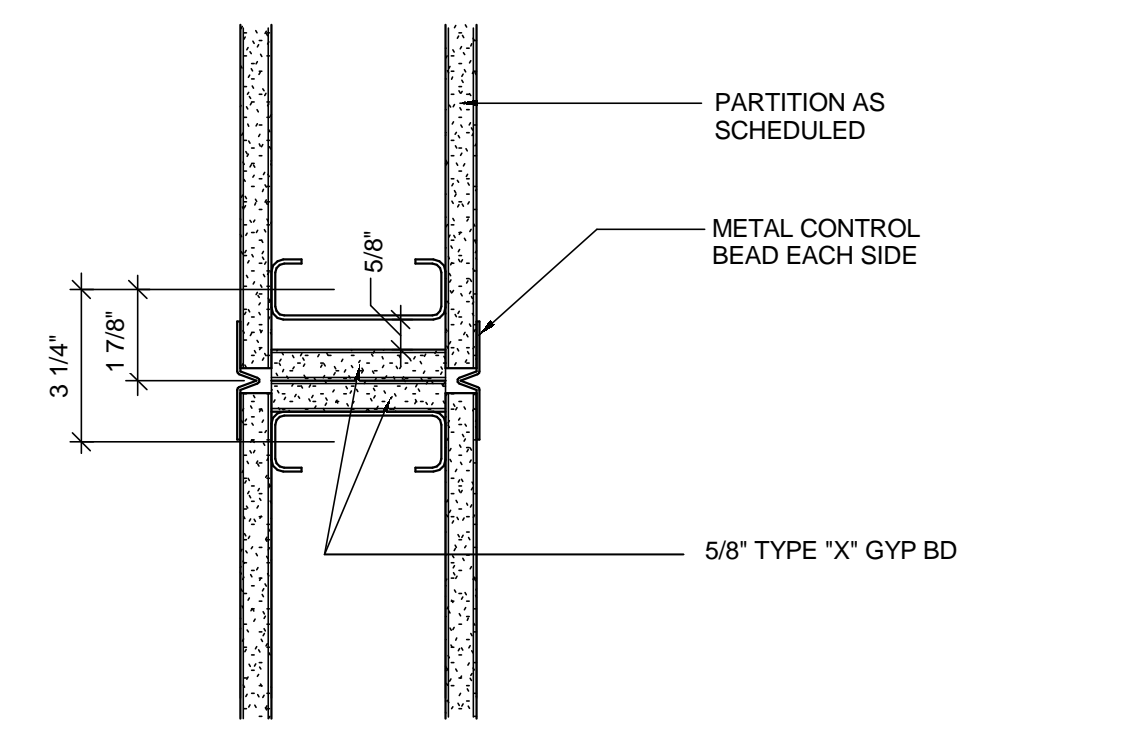
SCALE: 3/8" = 1'-0"



### FIRE DAMPER AT MTL STUD WALL

E7  
A501

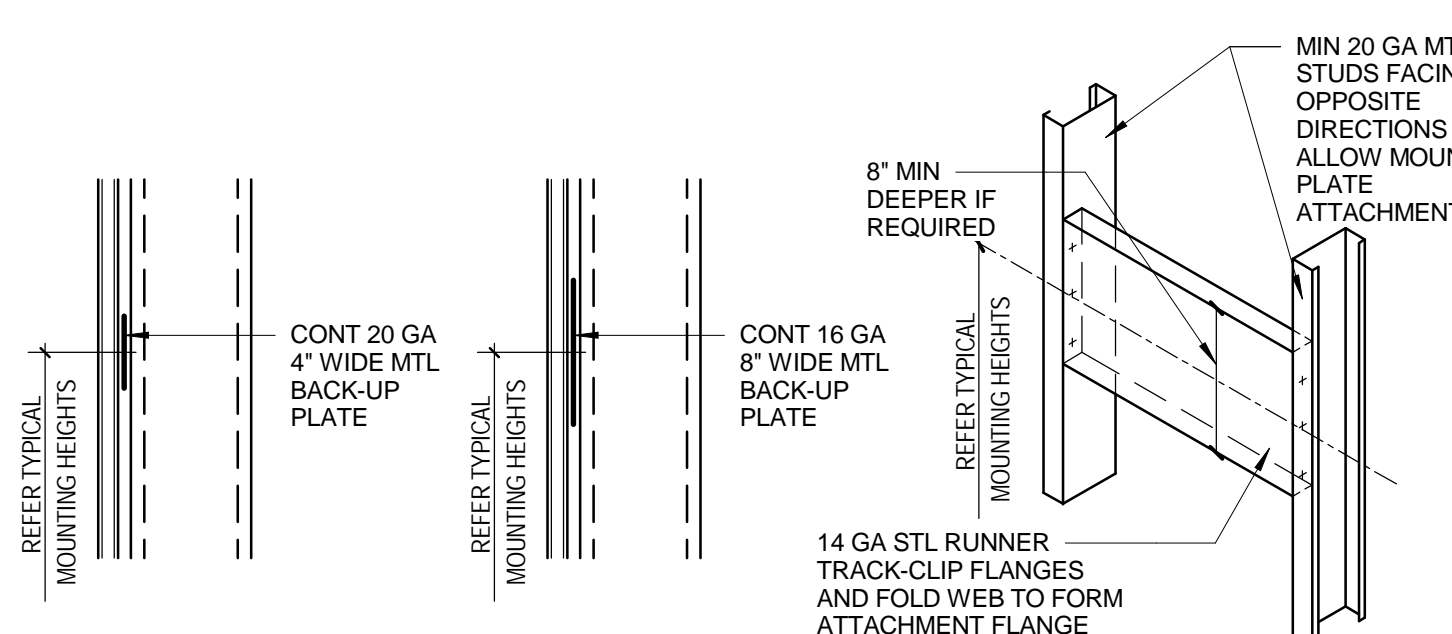
SCALE: 1 1/2" = 1'-0"



### CONTROL JOINT AT FIRE RATED PARTITION

E9  
A501

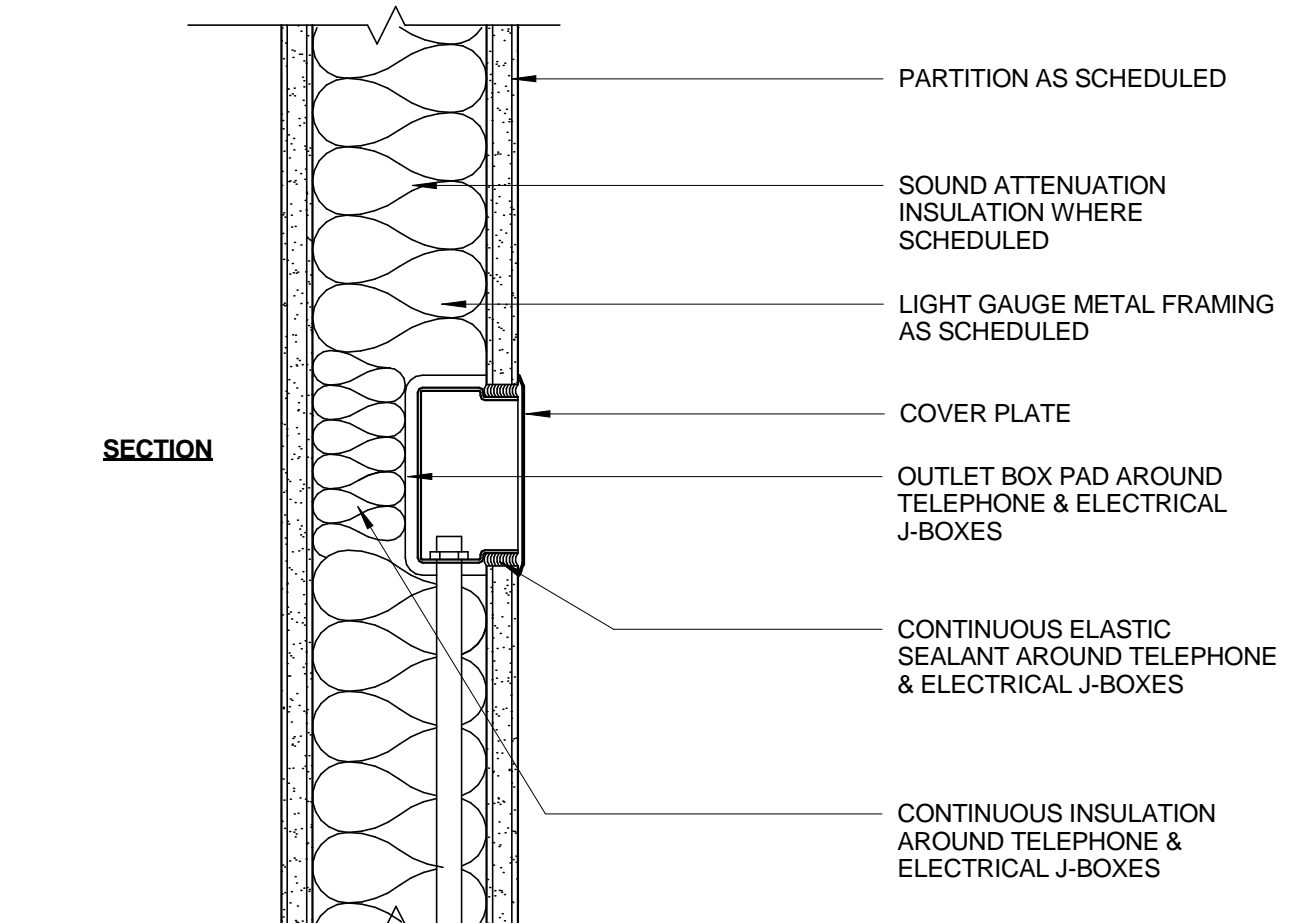
SCALE: 3" = 1'-0"



### EQUIPMENT MOUNTING DETAILS

C7  
A501

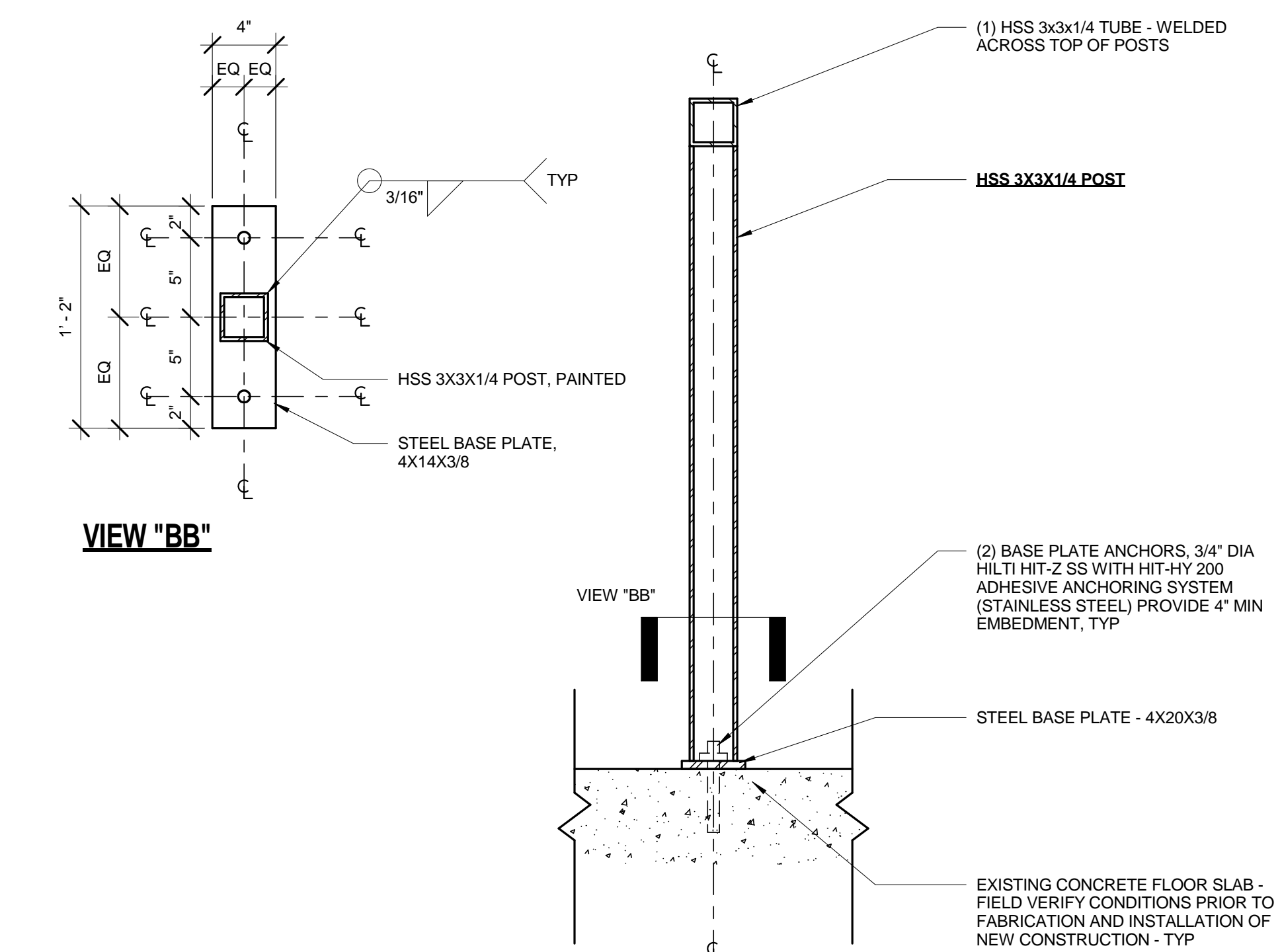
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### GYP BOARD PARTITION

C9  
A501

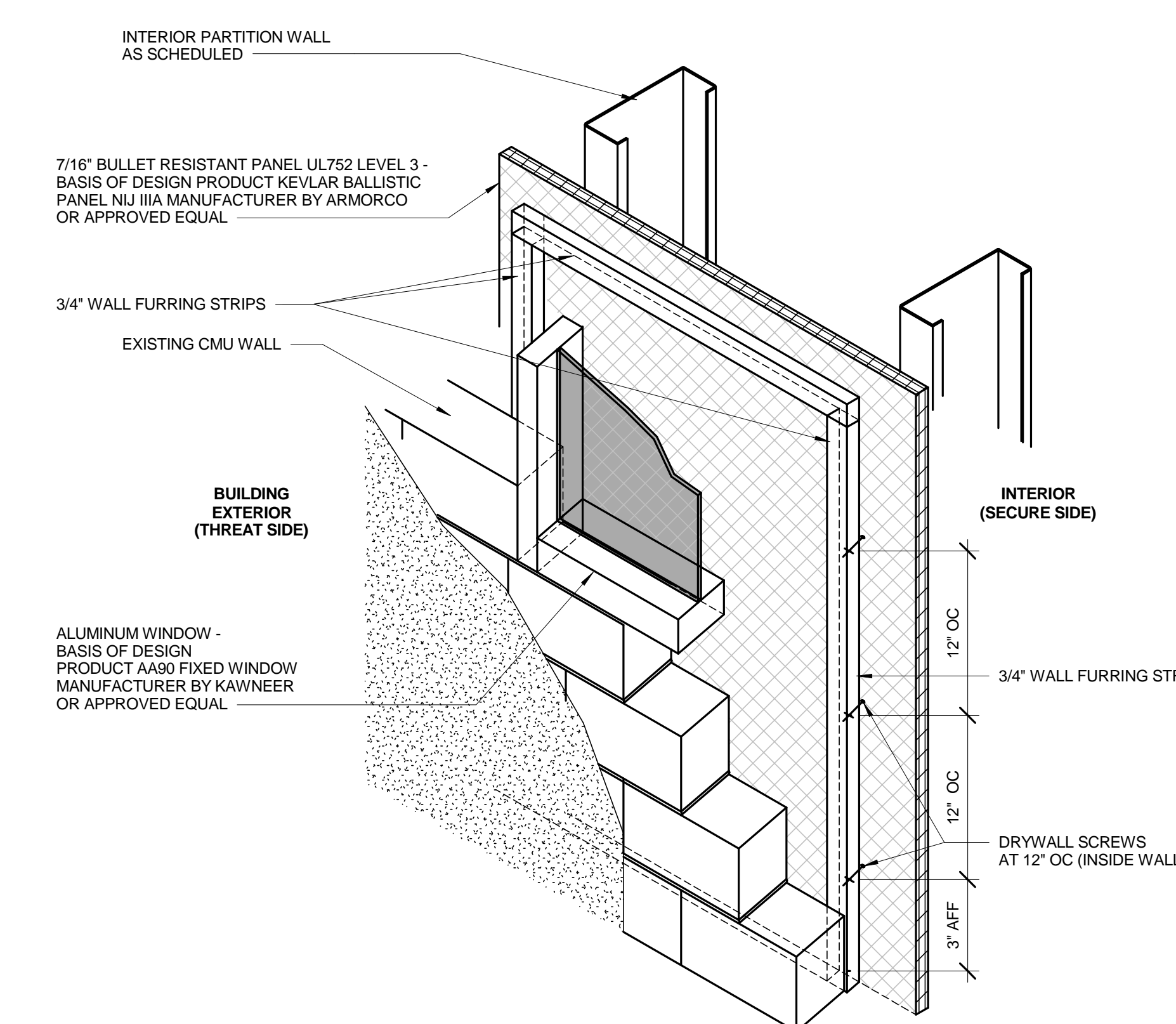
SCALE: 3" = 1'-0"



### LOW WALL SUPPORT STRUCTURE

A1  
A501

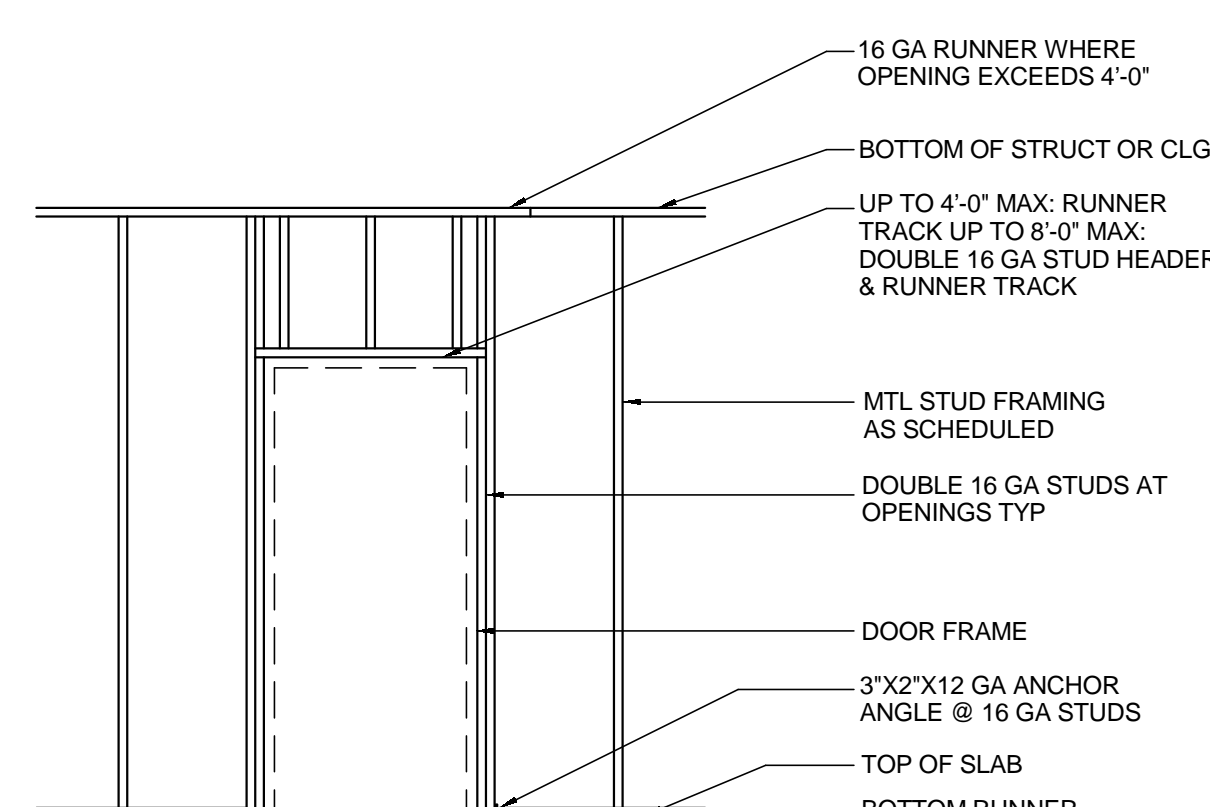
SCALE: 1 1/2" = 1'-0"



### BULLET RESISTANT PANEL DETAIL

A5  
A501

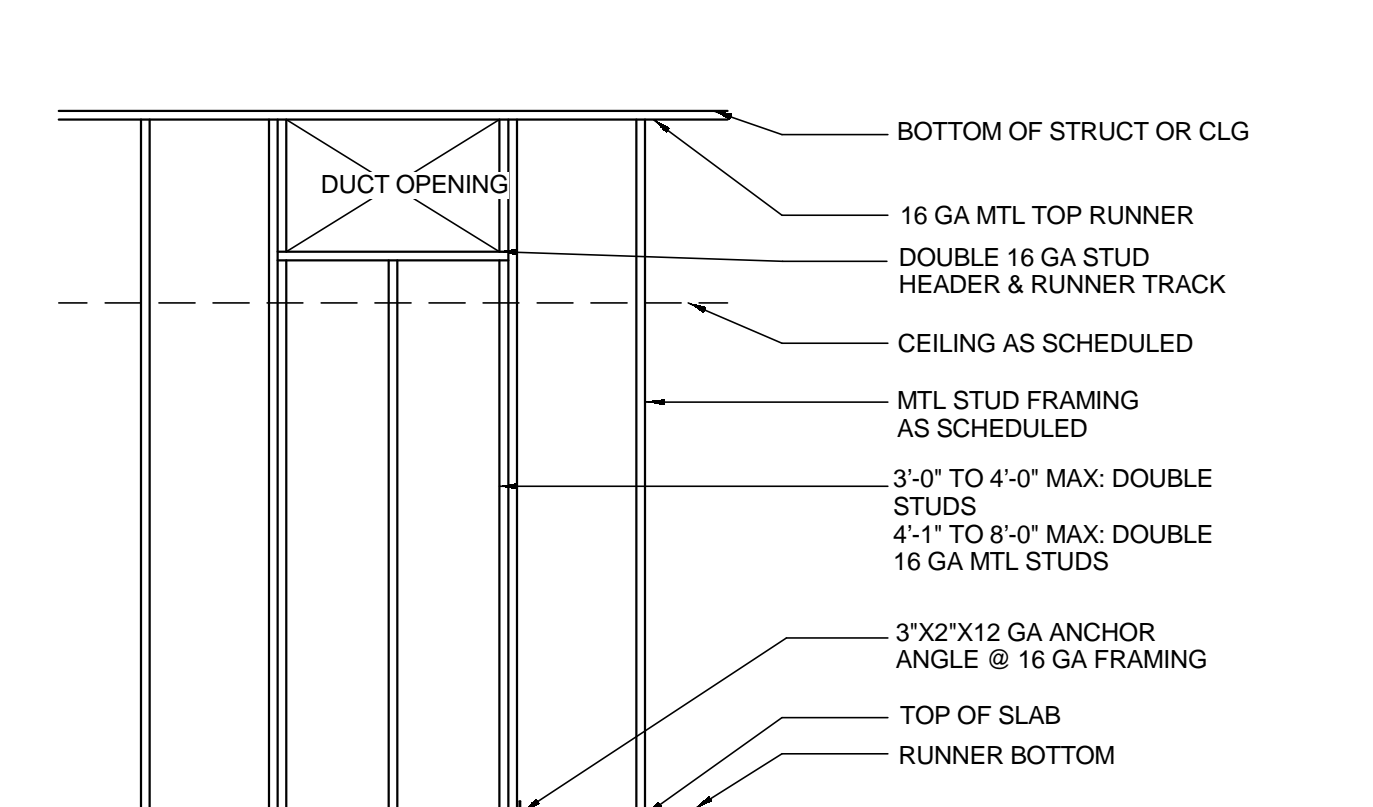
SCALE: 3" = 1'-0"



### METAL STUD WALL AT DOOR OPNG

A7  
A501

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



### METAL STUD WALL AT DUCT OPNG

A9  
A501

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





**FINISH KEY NOTES** # KEYNOTE NUMBER

- 1 ALL WALLS TO RECEIVE COVE BASE FINISH REFER TO THE BASE FINISH SCHEDULE.
- 2 HATCHED AREAS INDICATE AREAS ITEMS NOT IN SCOPE OF WORK.
- 3 REFER TO DETAIL A11A01 FOR FINISH TRANSITIONS DETAIL.
- 4 ALL EXISTING CORRIDOR WALL BASE, CARPET, PAINT, ETC., ARE TO MATCH EXISTING FINISHES.
- 5 REFER TO DETAIL C11A01 FOR DOOR THRESHOLD DETAIL.

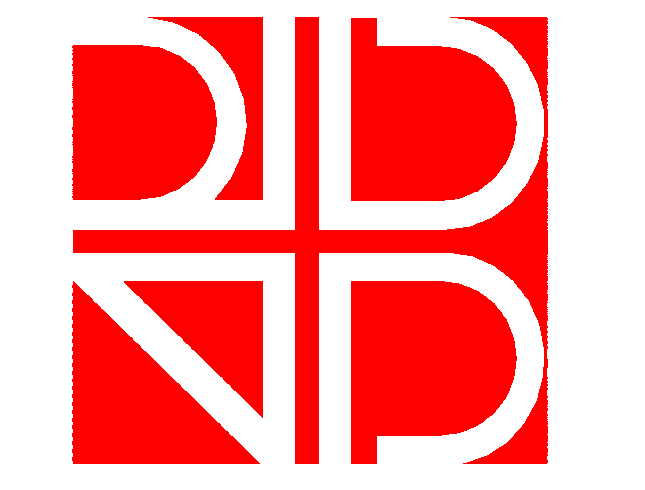
**FINISH LEGEND** REFER TO A601 FOR FINISH SCHEDULE

- CPT1
- CPT2
- CPT3
- EXPC
- LVT1
- LVT2

**FINISH ABBREVIATION LEGEND**

- CPT CARPET
- LVT LUXURY VINYL TILE
- TS CARPET TRANSITION
- RB FLOOR BASE
- NB NO BASE
- PT PAINT
- ACP ACOUSTICAL CEILING PANEL

**FINISH FIRST FLOOR PLAN**  
 PLAN NORTH TRUE NORTH  
 SCALE: 1/4" = 1'-0"



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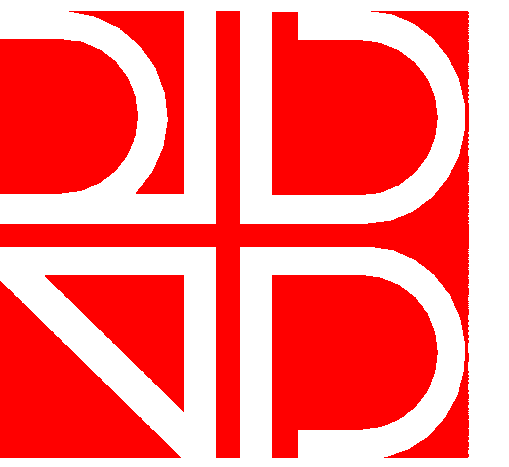
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**FINISH FLOOR PLAN**

SCALE: AS INDICATED  
 DRAWN BY: MA / AC  
 CHECK BY: AC / JB  
 DATE: 09/15/2016  
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**A600**





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Seal 09/15/2016

Joseph W. Baker  
AR0013188

**BID DOCUMENTS**  
"NOT FOR CONSTRUCTION"

DATE	SUBMISSION / REVISION	NO.
11/18/2016	Permit Review Responses	1

**FINISH SCHEDULE AND  
DETAILS**

SCALE: AS INDICATED  
DRAWN BY: MA / AC  
CHECK BY: AC / JB  
DATE: 09/15/2016  
PROJECT NUMBER: 15012-0011

**A601**

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH				CEILING FINISH	REMARKS
				NORTH	SOUTH	EAST	WEST		
FIRST LEVEL									
100	MAIN OFFICE	CPT1	RB2	PT2	VARIES	VARIES	PT2	ACP1	VARIES WALL FINISH - REFER TO FINISH FLOOR PLAN FOR PAINT WALL FINISH SCHEDULE
102	COMMAND AREA	CPT1	RB2	VARIES	PT3	PT2	PT1	ACP1	VARIES WALL FINISH - REFER TO FINISH FLOOR PLAN FOR PAINT WALL FINISH SCHEDULE
103	COPY AREA	LVT2	RB2	PT2	PT2	PT2	PT2	ACP1	
104	TRAFFIC MONITORING AREA	CPT1	RB2	PT1	PT2	PT3	PT2	ACP1	
105	EXECUTIVE POLICY CONFERENCE RM	CPT2	RB2	PT3	PT1	PT1	PT1	ACP1	
106	BREAK-OUT	CPT3	RB2	PT2	PT2	PT1	PT2	ACP1	
107	BREAK-OUT	CPT3	RB2	PT2	PT2	PT2	PT1	ACP1	
108	FIRE RISER RM	LVT1	RB1	PT2	PT2	PT2	PT2	EXPOSED	
109	BREAK ROOM	LVT1	RB1	PT2	VARIES	PT1	PT2	ACP1	VARIES WALL FINISH - REFER TO FINISH FLOOR PLAN FOR PAINT WALL FINISH SCHEDULE
110	OFFICE	CPT3	RB2	PT1	PT1	PT1	PT1	ACP1	
111	OFFICE	CPT3	RB2	PT1	PT1	PT1	PT1	ACP1	
112	CORRIDOR	LVT1	RB1	PT2	PT2	PT2	PT2	ACP1	
113	ENTRY	LVT1	RB1	PT2	PT2	PT2	PT1	ACP1	
115	NEW ELECTRICAL ROOM	EXPC	NA	PT2	PT2	PT2	PT2	EXPOSED	
116	IDF ROOM	EXPC	NA	PT2	PT2	PT2	PT2	EXPOSED	

NOTE: NORTH, SOUTH, EAST AND WEST FINISH DESIGNATIONS ARE BASE ON PROJECT NORTH COORDINATES.

**FINISH LIST**

**CARPET**

CARPET TYPE - CPT1

MNF: SHAW CONTRACT GROUP  
STYLE: ST079 FIELD TILE  
SIZE: 24" x 24"  
SERIES: NO RULES - VIEW COLLECTION  
COLOR: 7355 DVELL  
INSTALLED METHOD: QUATER TURN  
LOCATION: COMMAND AREA, TRAFFIC MONITORING AND MAIN OFFICE

CARPET TYPE - CPT2

MNF: SHAW CONTRACT GROUP  
STYLE: ST079 FIELD TILE  
SIZE: 24" x 24"  
SERIES: NO RULES - VIEW COLLECTION  
COLOR: 7355 DVELL  
INSTALLED METHOD: MONOLITHIC  
LOCATION: CONFERENCE ROOM

CARPET TYPE - CPT3

MNF: SHAW CONTRACT GROUP  
STYLE: ST093 WANDER TILE  
SIZE: 24" x 24"  
SERIES: MATERIAL MATTERS COLLECTION  
COLOR: 37557 SMOKE  
INSTALLED METHOD: MONOLITHIC  
LOCATION: BREAK-OUT ROOMS AND OFFICES

**LUXURY VINYL TILE**

LUXURY VINYL TILE TYPE - LVT1

MNF: SHAW HARD SURFACE  
STYLE: TERRAIN 0564V (20 ML)  
SIZE: 6" x 48" NOMINAL  
COLOR: 00755 NEST  
LOCATION: ENTRY, CORRIDOR, BREAK ROOM AND FIRE-RISER ROOM

LUXURY VINYL TILE TYPE - LVT2

MNF: PARTERRE FLOORING SYSTEMS  
STYLE: INFRASTRUCTURE CONCRETE  
SIZE: 12" x 24"  
COLOR: FUSED LVT  
LOCATION: 81855 GROSSWALK/GUMM COPY AREA

**TRANSITIONS**

CARPET TRANSITION TYPE - TS1

MNF: SHAW CONTRACT GROUP  
COLOR: 00780 CLAY  
SIZE: 146VS RESILIENT CARPET REDUCER  
LOCATION: NOTES:

CARPET TRANSITION TYPE - TS2

MNF: SHAW CONTRACT GROUP  
COLOR: 00066 CHARCOAL  
SIZE: 146VS RESILIENT CARPET REDUCER  
LOCATION: NOTES:

**PLASTIC LAMINATE**

PLASTIC LAMINATE TYPE - PL1

MNF: WILSONART  
COLOR: ASIAN NIGHT  
NUMBER: 7949K-18  
LOCATION: BASE AND UPPER CABINETS  
NOTES: 2MM EDGE BAND TO MATCH ASIAN NIGHT

PLASTIC LAMINATE TYPE - PL2

MNF: WILSONART  
COLOR: VENETIAN IVORY  
NUMBER: 4926-39  
LOCATION: COUNTERS  
NOTES: 3MM EDGE BAND TO MATCH VENETIAN IVORY

**BASE**

FLOOR BASE TYPE - RB1

MNF: SHAW CONTRACT GROUP  
STYLE: 149VS 4.5" ANGLE PROFILE  
COLOR: 00066 CHARCOAL  
SIZE: 4.5" WIDE  
LOCATION: USE WITH LVT1 AND LVT2

FLOOR BASE TYPE - RB2

MNF: SHAW CONTRACT GROUP  
STYLE: 149VS 4.5" ANGLE PROFILE  
COLOR: 00066 CHARCOAL  
SIZE: 4.5" WIDE  
LOCATION: USE WITH CARPET (CP1, CP2 AND CP3)

**PAINT**

PAINT TYPE - PT1

MNF: SHERWIN WILLIAMS  
COLOR: FIRST STAIR  
NUMBER: SW7646  
FINISH: EGGSHELL  
LOCATION: GENERAL PAINT

PAINT TYPE - PT2

MNF: SHERWIN WILLIAMS  
COLOR: GATEWAY GRAY  
NUMBER: SW7644  
FINISH: EGGSHELL  
LOCATION: GENERAL PAINT

PAINT TYPE - PT3

MNF: SHERWIN WILLIAMS  
COLOR: WHEAT GRASS  
NUMBER: SW6408  
FINISH: EGGSHELL  
LOCATION: ACCENT

PAINT TYPE - PT4

MNF: SHERWIN WILLIAMS  
COLOR: FAWN BRINDLE  
NUMBER: SW7640  
FINISH: SEMI-GLOSS  
LOCATION: DOOR & FRAME

PAINT TYPE - PT5

MNF: SHERWIN WILLIAMS  
COLOR: COURTYARD  
NUMBER: SW6440  
FINISH: EGGSHELL  
LOCATION: ACCENT

**EXPOSED CONCRETE**

EXPC

MNF: EXISTING FLOOR  
NOTES: --

**ACOUSTICAL CEILING PANEL**

ACOUSTICAL CEILING PANEL TYPE - ACP1

MNF: ARMSTRONG  
SERIES: FINE FISSURED HIGH NRC  
STYLE: #1824 (0.70 NRC)  
SIZE: 24" x 24" x 3/4"  
EDGE: SQUARE LAY-IN  
COLOR: WHITE - MEDIUM TEXTURE  
GRID: PRELUDE 1516"  
NOTE: GENERAL CEILING USE

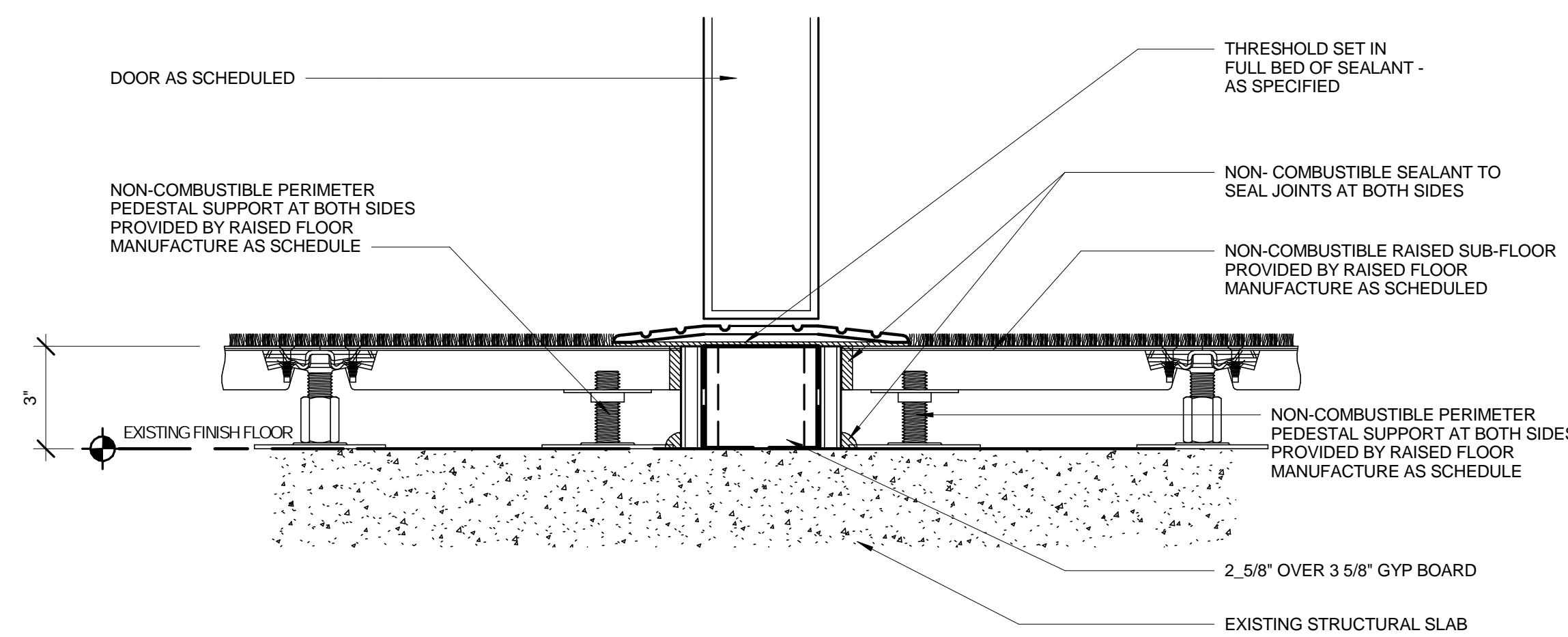
**RAISED FLOOR**

PLATFORM / RAISED FLOOR

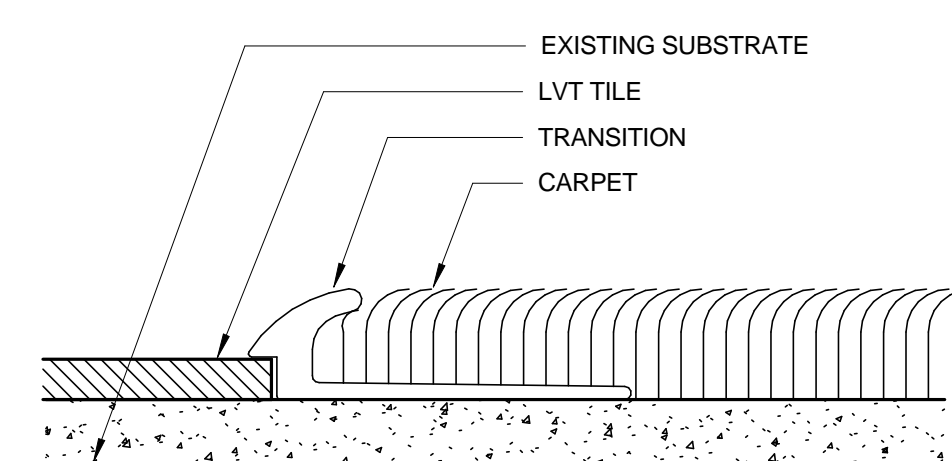
MNF: Tate Access Floors, Inc.  
CONCORE 1250 Access Floor Panels with PosiLock and Low Finished Floor Height (LFFH)  
PosiLock Understructure Pedestals

NOTES: ConCore CC1250 Panel 24 3" LFFH PosiLock Understructure System 15" PosiLock Understructure System Raised Floors Accessible Ramp System

NOTE:  
PERMANENT RAISED FLOOR SHALL BE CONSTRUCTED WITH NON-COMBUSTIBLE MATERIALS AS REQUIRED FOR THE TYPE OF CONSTRUCTION OF THE BUILDING IN WHICH THE PERMANENT PLATFORM IS LOCATED. FBC 410.4

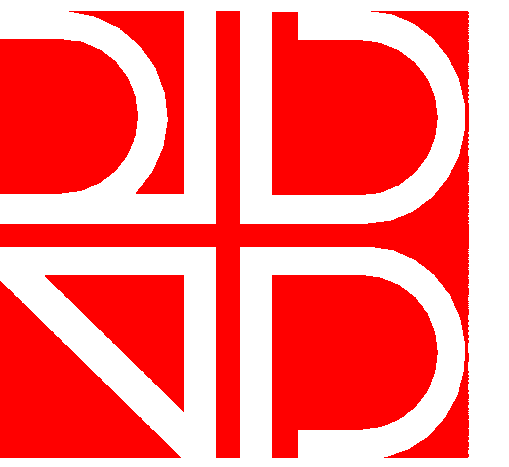


**C1**  
A601 TYPICAL THRESHOLD AT RAISED FLOOR  
SCALE: 3" = 1'-0"



**A1**  
A601 CARPET TO LVT TRANSITION  
SCALE: 3" = 1'-0"





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DOOR AND WINDOW  
SCHEDULE

SCALE: AS INDICATED

DRAWN BY: MA / AC

CHECK BY: AC / JB

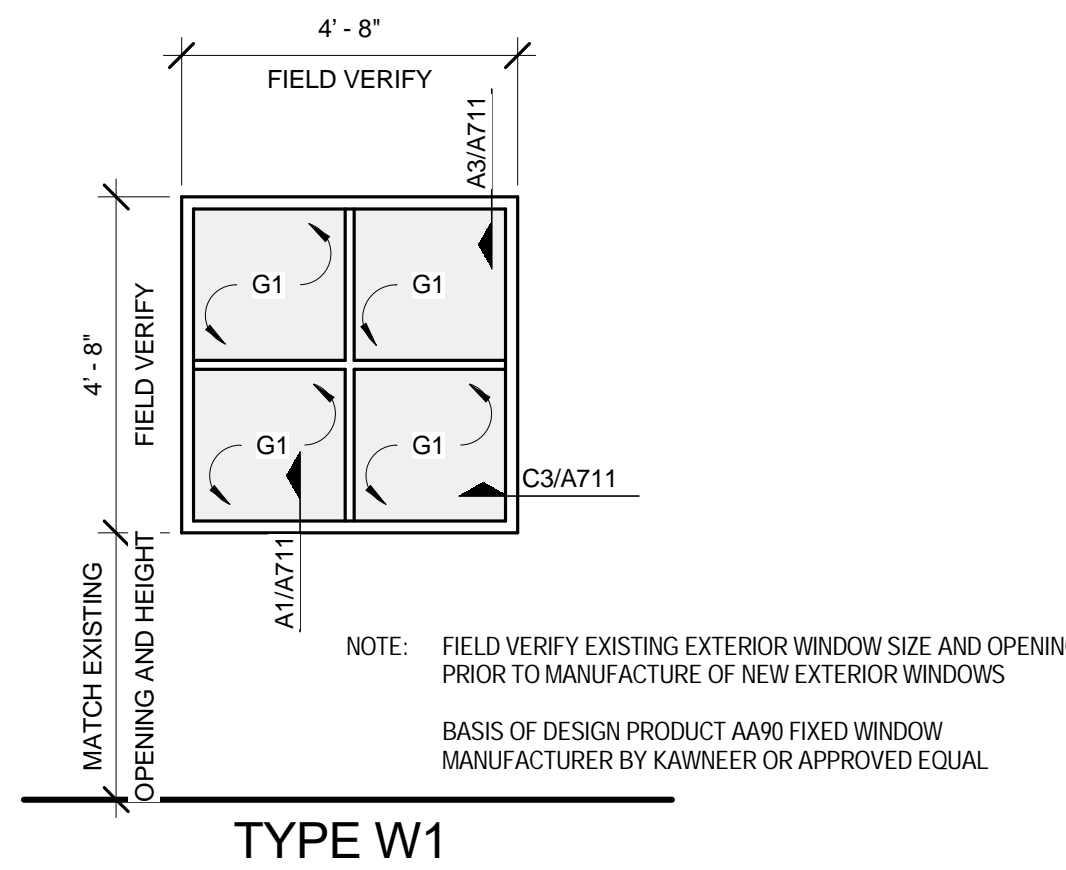
DATE: 09/15/2016

PROJECT NUMBER: 15012-0011

A710

DOOR SCHEDULE															
MARK	ROOM NUMBER	ROOM NAME	DOOR SIZE		DOOR					FRAME					
			THICK		MAT'L	FINISH	RATING	TYPE	GLAZ	MAT'L	TYPE	GLAZ	FINISH	HARDWARE	NOTES
FIRST LEVEL															
105A	105	EXECUTIVE POLICY CONFERENCE RM	3'-0" x 8'-0"	1 3/4"	SOLID WOOD CORE	PNT			A	-	HM	F1		PNT	06
106A	106	BREAK-OUT	3'-0" x 8'-0"	1 3/4"	SOLID WOOD CORE	PNT			A	-	HM	F1		PNT	05
107A	107	BREAK-OUT	3'-0" x 8'-0"	1 3/4"	SOLID WOOD CORE	PNT			A	-	HM	F1		PNT	05
108A	108	FIRE RISER RM	3'-0" x 8'-0"	1 3/4"	SOLID WOOD CORE	PNT	45 MIN		A	-	HM	F1		PNT	04
109A	109	BREAK ROOM	3'-0" x 8'-0"	1 3/4"	SOLID WOOD CORE	PNT			A	-	HM	F1		PNT	06
110A	110	OFFICE	3'-0" x 8'-0"	1 3/4"	SOLID WOOD CORE	PNT			A	-	HM	F1		PNT	03
111A	111	OFFICE	3'-0" x 8'-0"	1 3/4"	SOLID WOOD CORE	PNT			A	-	HM	F1		PNT	03
112A	112	CORRIDOR	3'-0" x 8'-0"	1 3/4"	SOLID WOOD CORE	PNT	45 MIN		A	-	HM	F1		PNT	03 1
112B	112	CORRIDOR	3'-0" x 8'-0"	1 3/4"	SOLID WOOD CORE	PNT			A	-	HM	F1		PNT	03 1
113A	113	ENTRY	4'-0" x 8'-0"	1 3/4"	SOLID WOOD CORE	PNT	45 MIN		A	-	HM	F1		PNT	01
115A	115	NEW ELECTRICAL ROOM	PR 3'-0" x 8'-0"	1 3/4"	SOLID WOOD CORE	PNT	45 MIN		B	-	HM	F2		PNT	02 1
116A	116	IDF ROOM	3'-0" x 8'-0"	1 3/4"	SOLID WOOD CORE	PNT	45 MIN		A	-	HM	F1		PNT	03 1

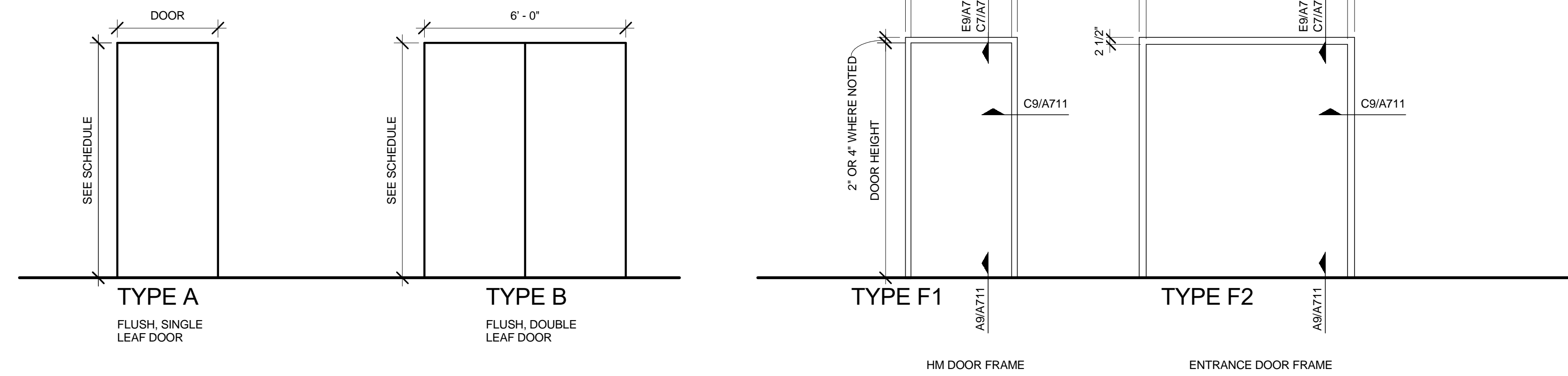
FIRST LEVEL: 12



TYPE W1

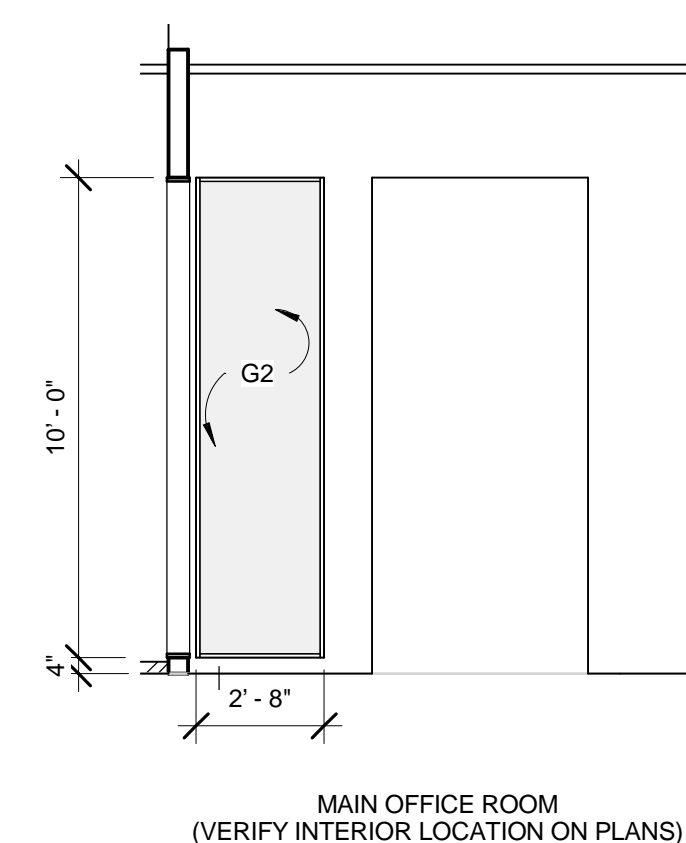
ALUMINUM WINDOW TYPE ELEVATION

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



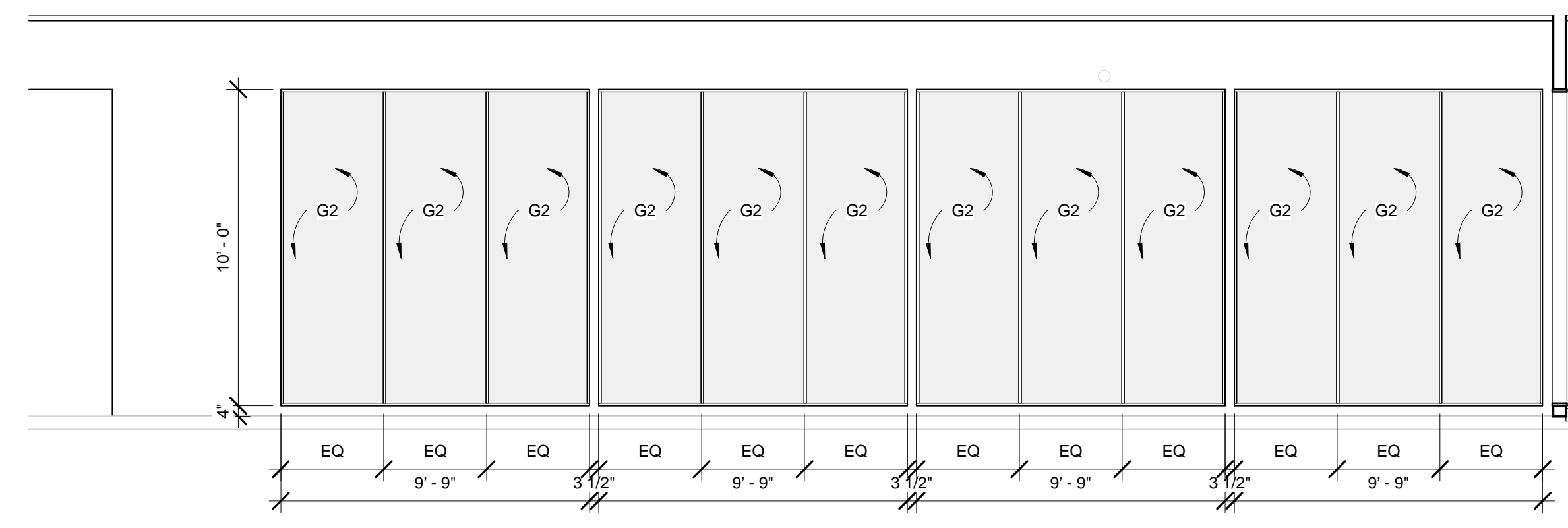
DOOR TYPE ELEVATIONS

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



GLASS WALL SYSTEM ELEVATION

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



GLASS WALL SYSTEM ELEVATION

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

DOOR MATERIAL ABBREVIATIONS

AL	ALUMINUM
DBL	DOUBLE DOORS
HM	HOLLOW METAL DOOR OR FRAME
X	INDICATES LABEL, CLOSER OR ELECT. LOCK IS INCLUDED
NA	NOT APPLICABLE
STL	STEEL
SC	SOLID CORE WOOD DOOR
CR	ACCESS CONTROL CARD READER
GL	GLAZING
STC	SOUND TRANSMITTING COEFFICIENT
FF	FACTORY FINISH
PNT	PAINTED

GLAZING MATERIAL TYPES

G1	1" SPANDREL INSULATED TEMPERED GLASS
G2	1/2" CLEAR TEMPERED GLASS

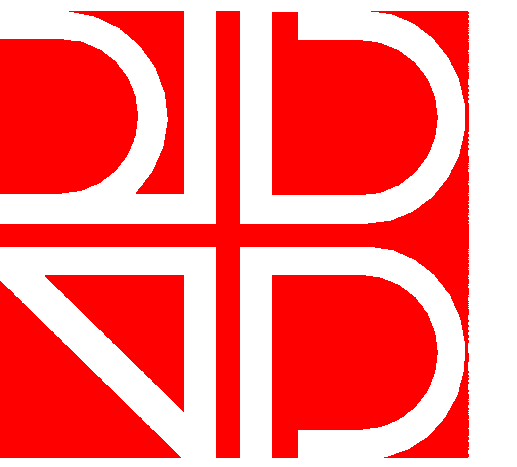
DOOR SCHEDULE NOTES

1. ACCESS-CONTROLLED CARD READER AT THIS LOCATION. REFER TO ELECTRICAL / TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.

DOOR / HARDWARE GENERAL NOTES:

- A. ALL DOORS SHALL COMPLY WITH THE CLEARANCES FOR APPROACHES PER "ADA" REQUIREMENTS.
- B. ALL HARDWARE SHALL BE UNLOCKED IN THE DIRECTION OF EGRESS, REGARDLESS OF OTHER LOCK FUNCTIONS.
- C. ALL GLAZING SHALL BE SAFETY IMPACT GLASS TO COMPLY WITH FBC SECTION 2406.2
- D. CALK DOOR JAMB AND HEADS WHERE GAPS EXCEEDS 1/16" TYPICAL.
- E. DOORS SHALL OPERATE FREELY WITHOUT BINDING.
- F. DOOR FRAMES SHALL BE SECURED RIGIDLY IN PLACE AND BRACED TO FLOOR AND STRUCTURE ABOVE TO PREVENT BREAK OUT TO PARTITIONS.
- G. DOOR UNDERCUTS SHALL BE KEPT TO A MINIMAL DIMENSION AND SHALL BE UNIFORM THROUGHOUT PROJECT. U.N.O.
- H. INSTALLATION OF ALL DOORS AND HARDWARE SHALL MEET MIN. "ADA" REQUIREMENTS. IF ANY CONFLICTS ARISE, THE ITEM MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO CONSTRUCTION.
- I. PROVIDE THREE JAMB ANCHORS AND ONE BASE ANCHOR PER JAMB AT GYPSUM WALLBOARD PARTITIONS, TYP.
- J. PROVIDE FRAME ROUGH OPENINGS AS RECOMMENDED BY FRAME MANUFACTURER.
- K. PROVIDE STANDARD DOOR FRAME PROFILES AS REQUIRED TO MEET ADJACENT CONDITIONS.
- L. PROVIDE ANCHORS AND ACCESSORIES AS REQUIRED (REDD) FOR CONDITIONS AS RECOMMENDED BY THE MANUFACTURER (MFR).
- M. ERECT ALL DOOR FRAMES AND ADJACENT WALLS TO CONFORM TO THE APPLICABLE PLAN CONFIGURATIONS. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION OF DOOR FRAMES AND ADJACENT WALLS.
- N. GC TO VERIFY CEILING HEIGHTS FOR ALL DOORS LEADING TO EXISTING CORRIDORS TO CONFIRM DOOR HEIGHTS.
- O. REFER TO FINISH SCHEDULE FOR ALL FINISH MATERIALS AND FINISH LOCATIONS.
- P. ALL SURFACES EXPOSED TO VIEW ARE TO BE PAINTED PER SPECIFICATIONS.
- Q. ALL DOORS TO BE 1 3/4" THICK UNLESS NOTED OTHERWISE.
- R. REFER TO SPECIFICATIONS FOR DOOR AND FRAME MATERIALS AND REQUIREMENTS.
- S. CONTRACTOR TO FIELD VERIFY ALL OPENING DIMENSIONS PRIOR TO WORK.





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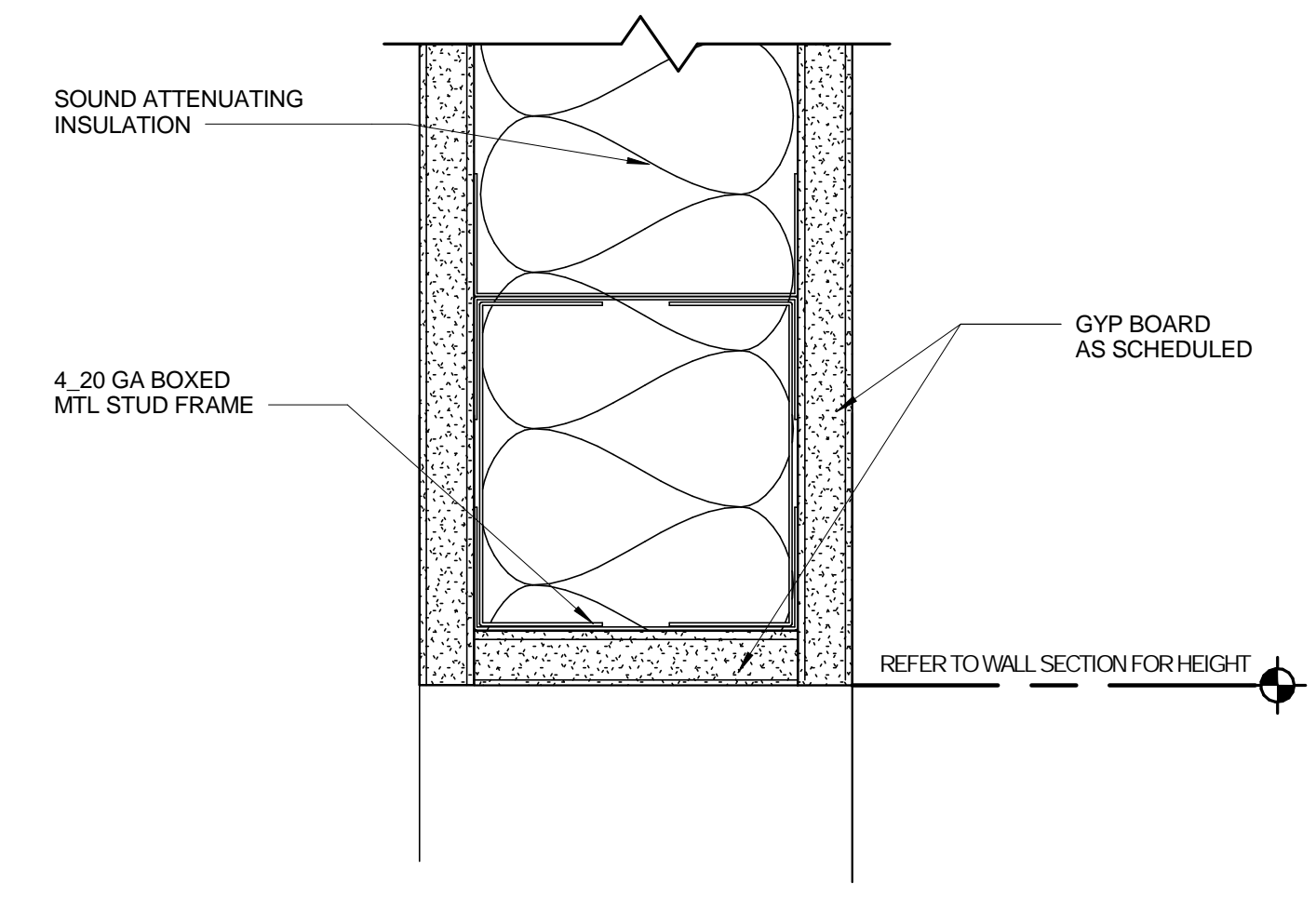
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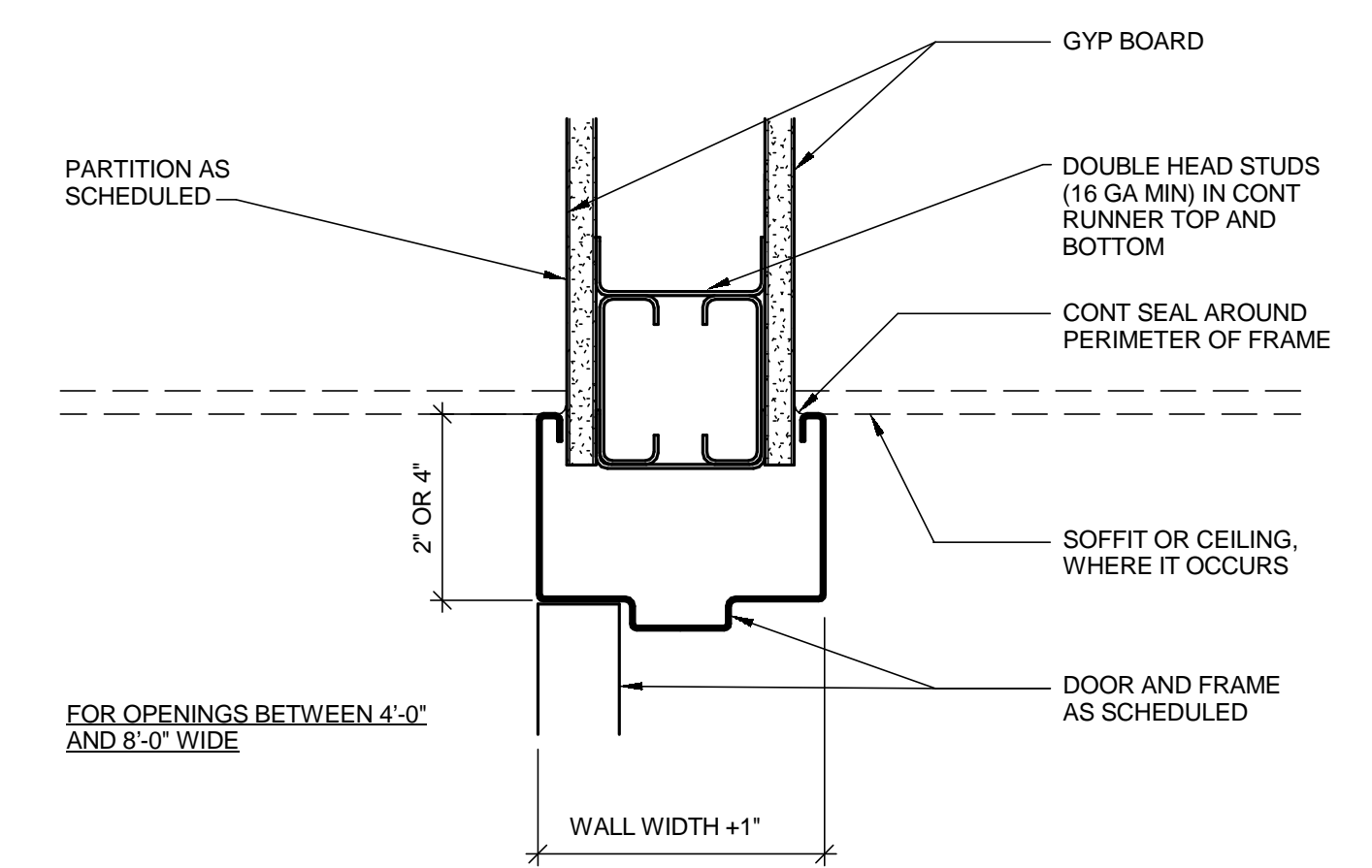
**DOOR AND WINDOW DETAILS**

SCALE: AS INDICATED  
DRAWN BY: MA / AC  
CHECK BY: AC / JB  
DATE: 09/15/2016  
PROJECT NUMBER: 15012-0011

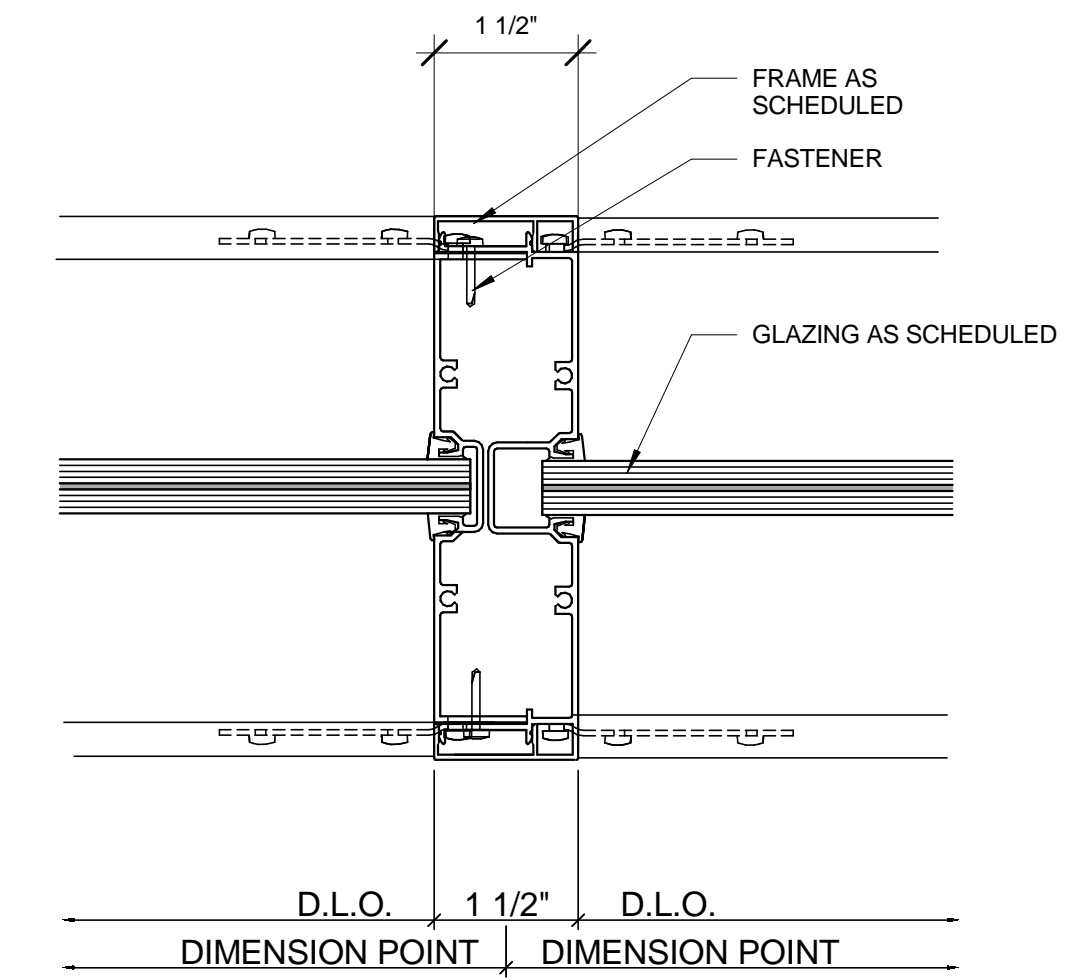
**A711**



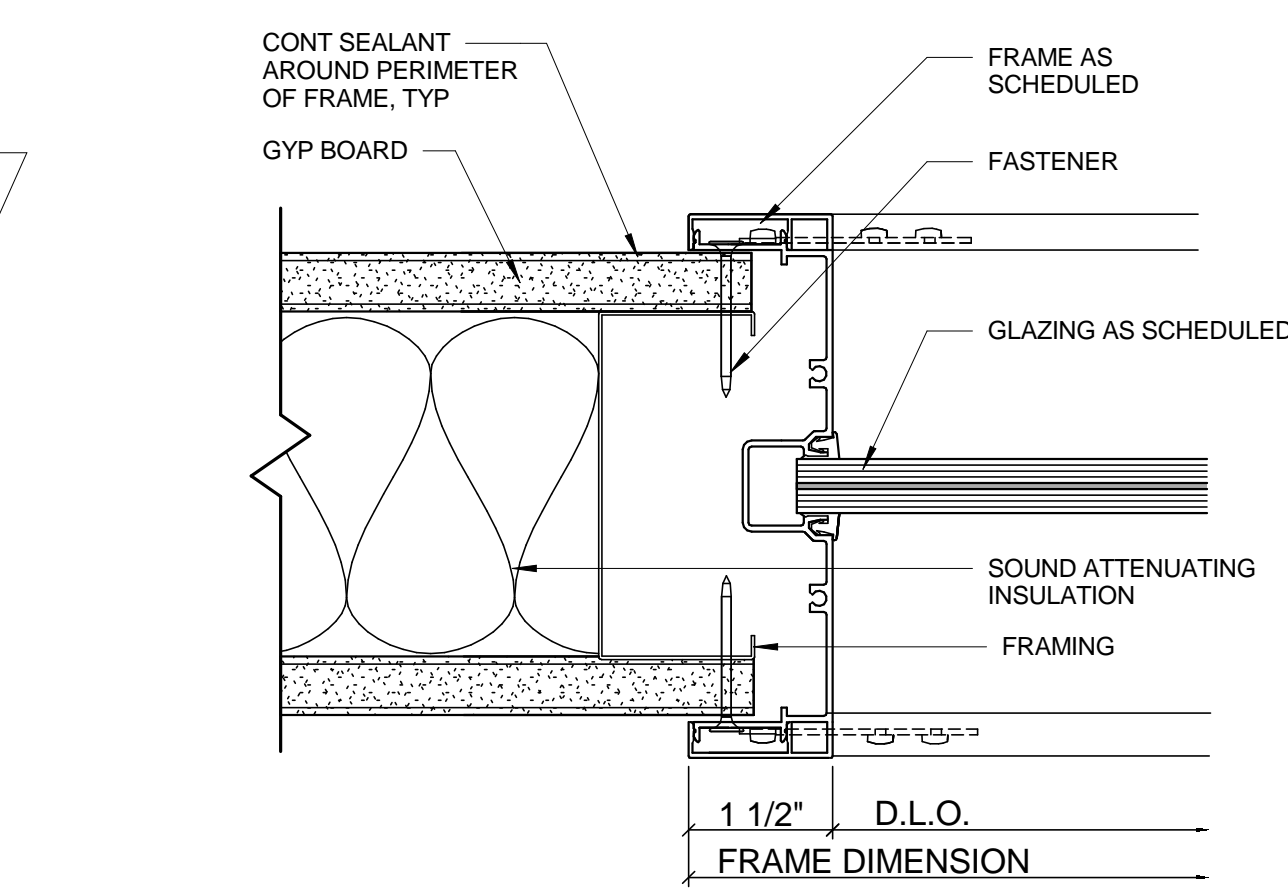
**G9**  
A711  
**OPENING HEAD DETAIL - TYPICAL**  
SCALE: 6" = 1'-0"



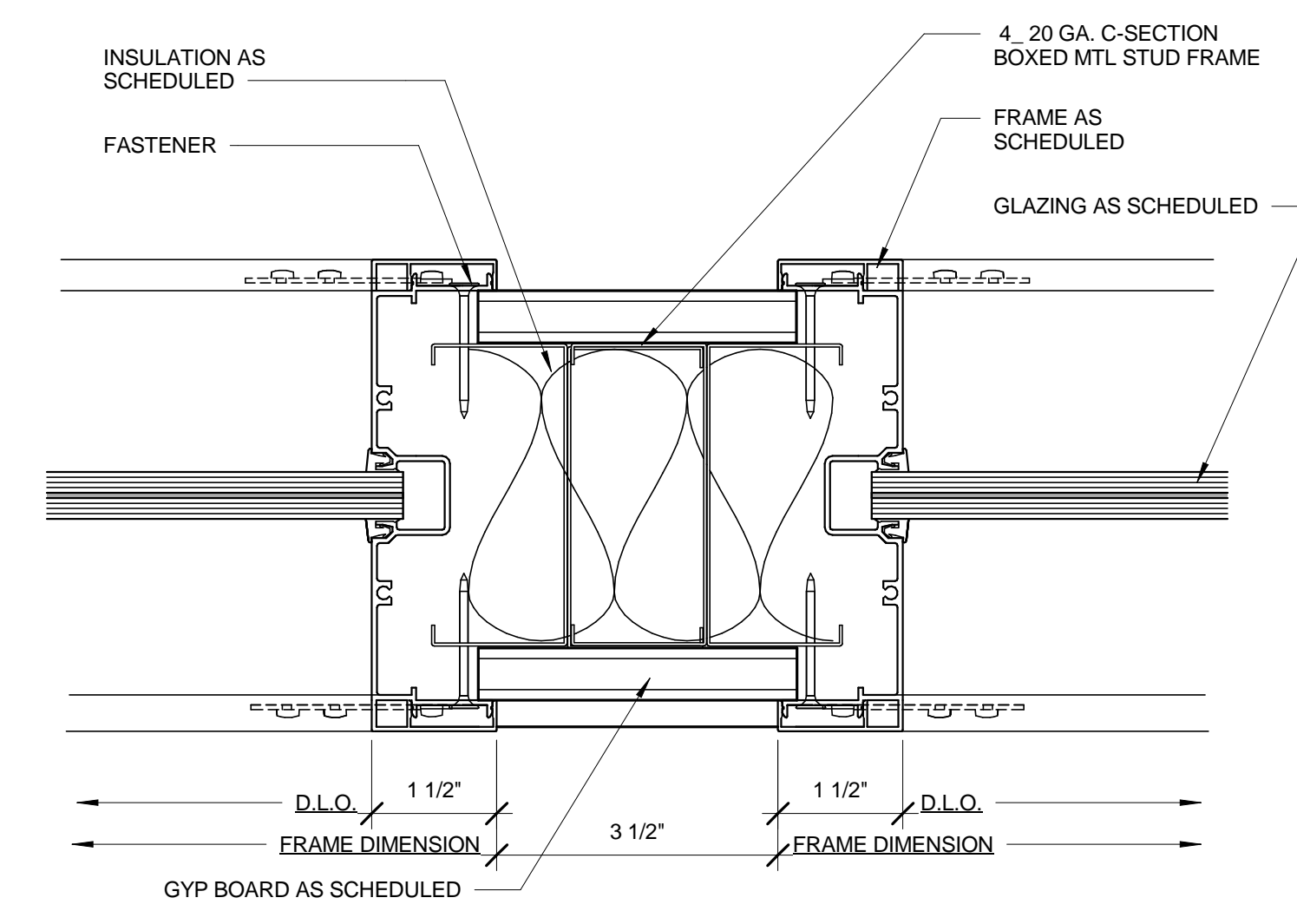
**E9**  
A711  
**HM HD MTL FRAMING AT LARGE OPNGS**  
SCALE: 3" = 1'-0"



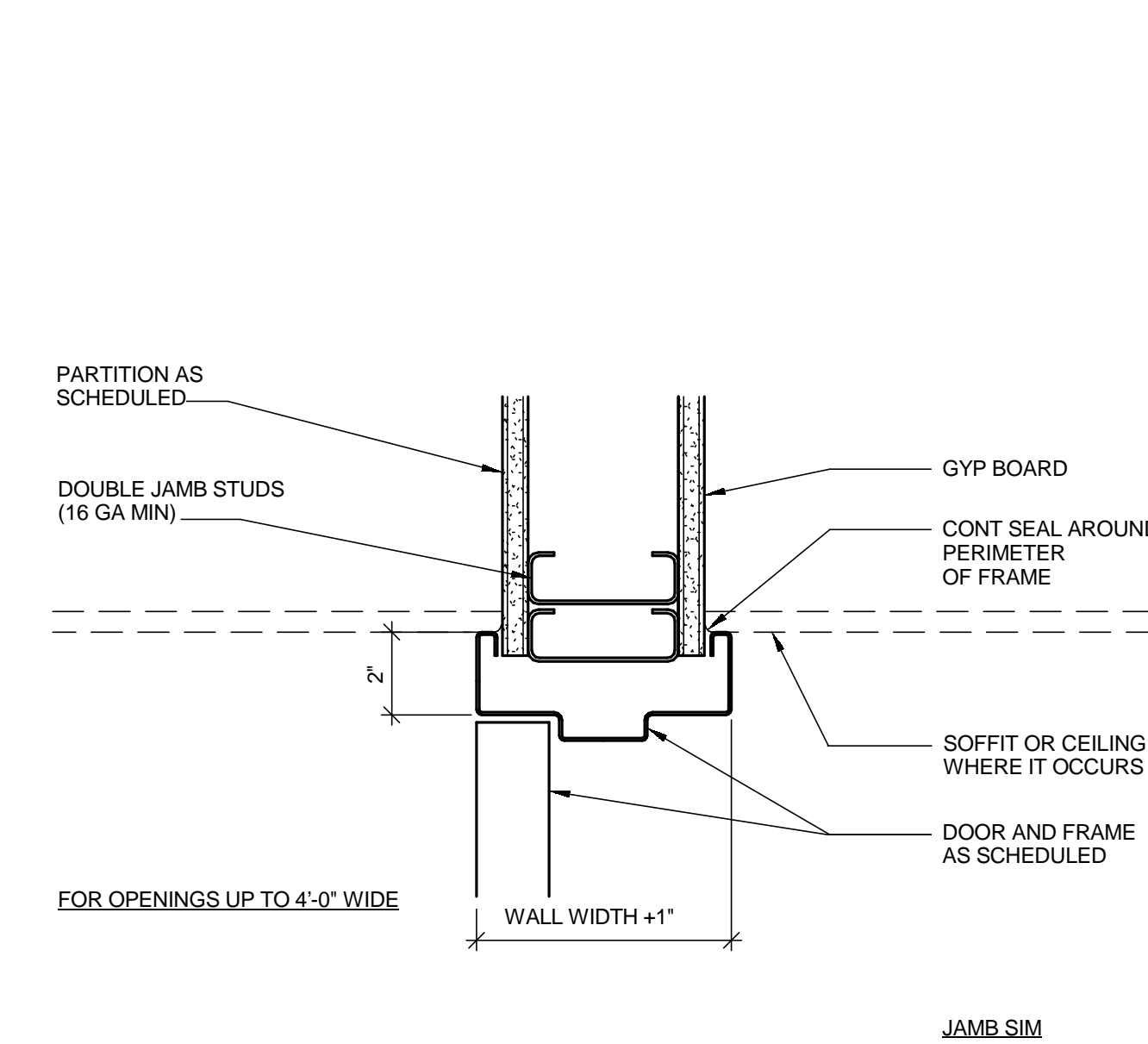
**E7**  
A711  
**GLASS WALL SYSTEM DETAIL**  
SCALE: 6" = 1'-0"



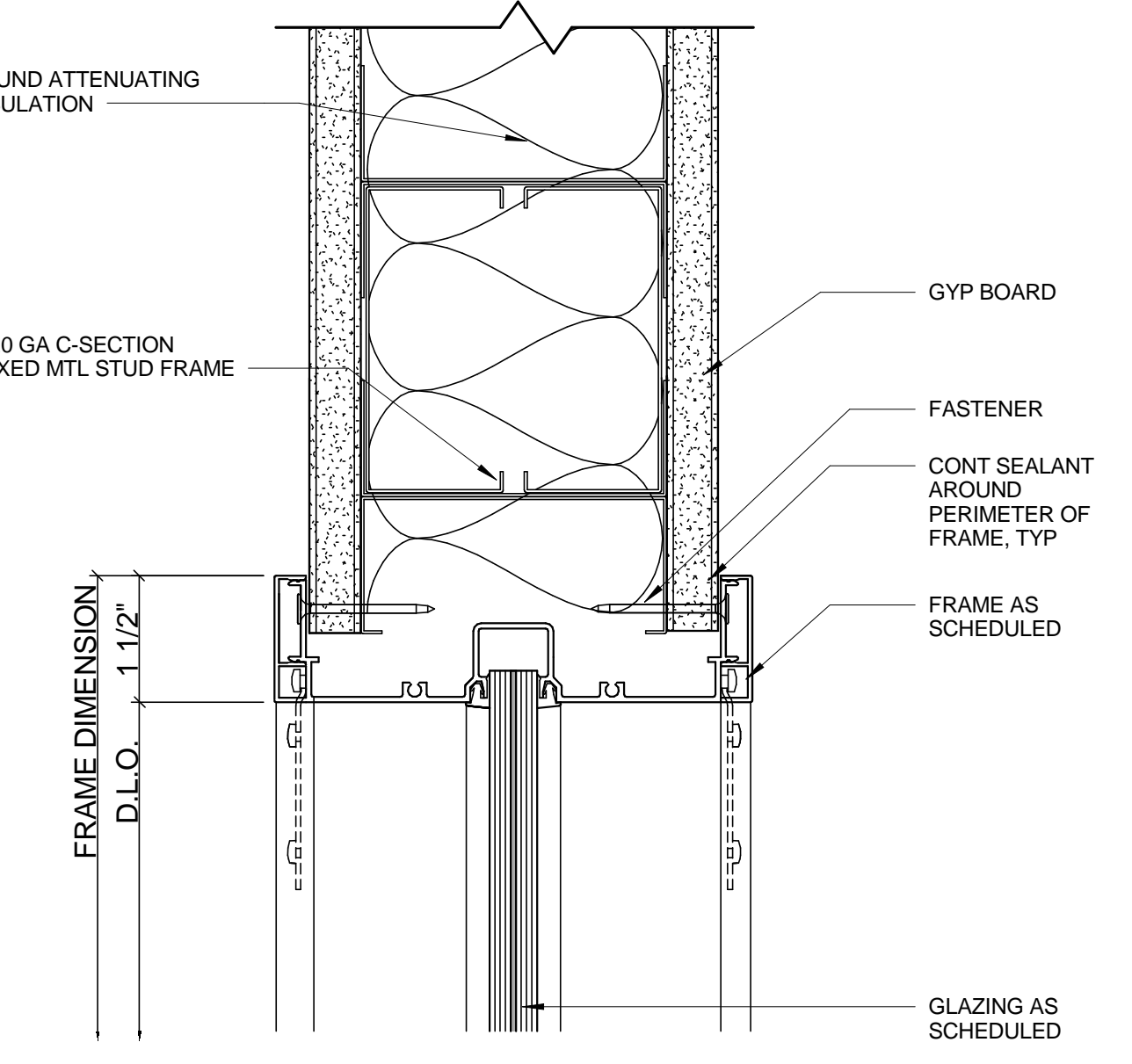
**E5**  
A711  
**GLASS WALL SYSTEM AT JAMB**  
SCALE: 6" = 1'-0"



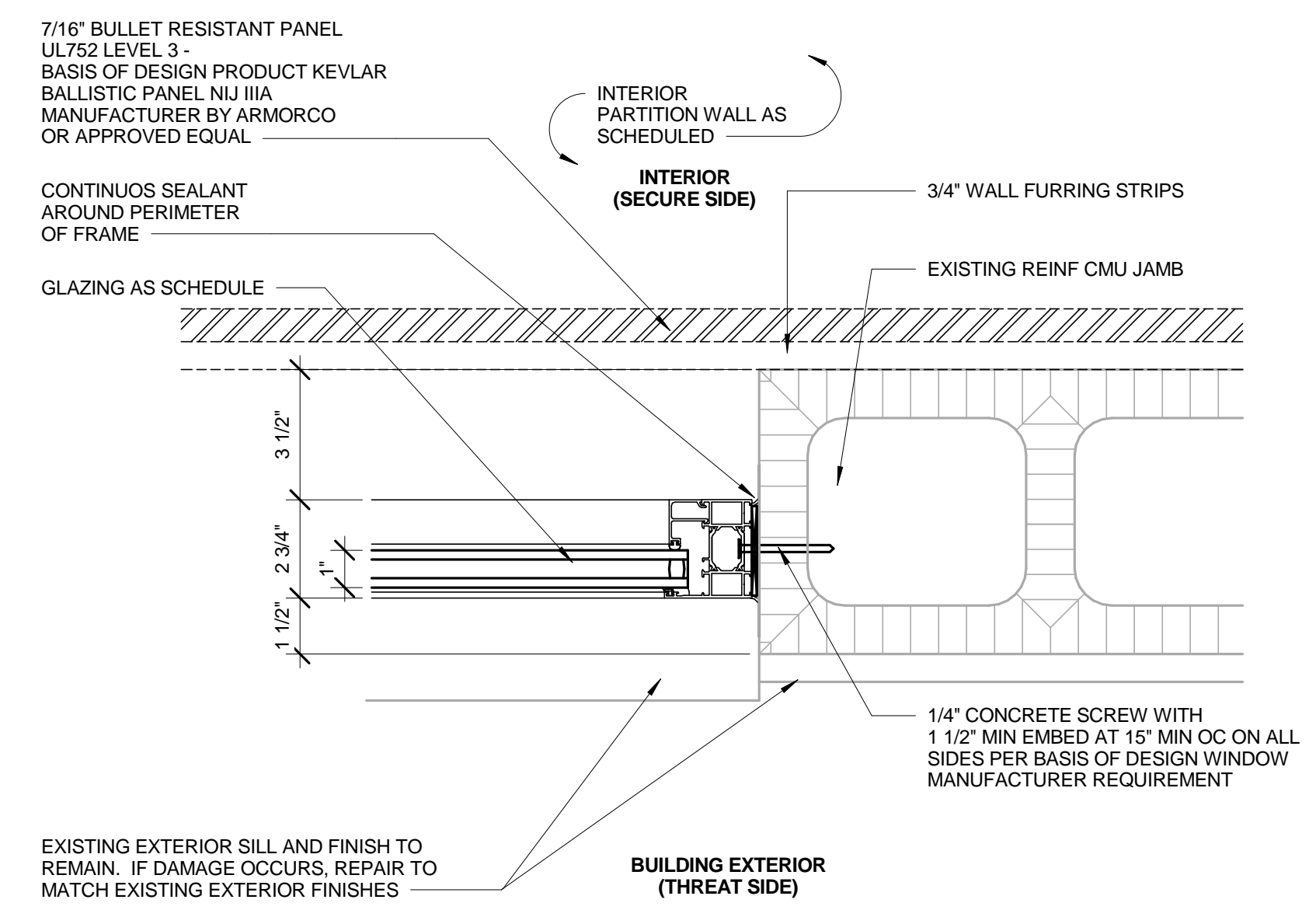
**E3**  
A711  
**GLASS WALL SYSTEM AT INTERMEDIATE SUPPORT**  
SCALE: 6" = 1'-0"



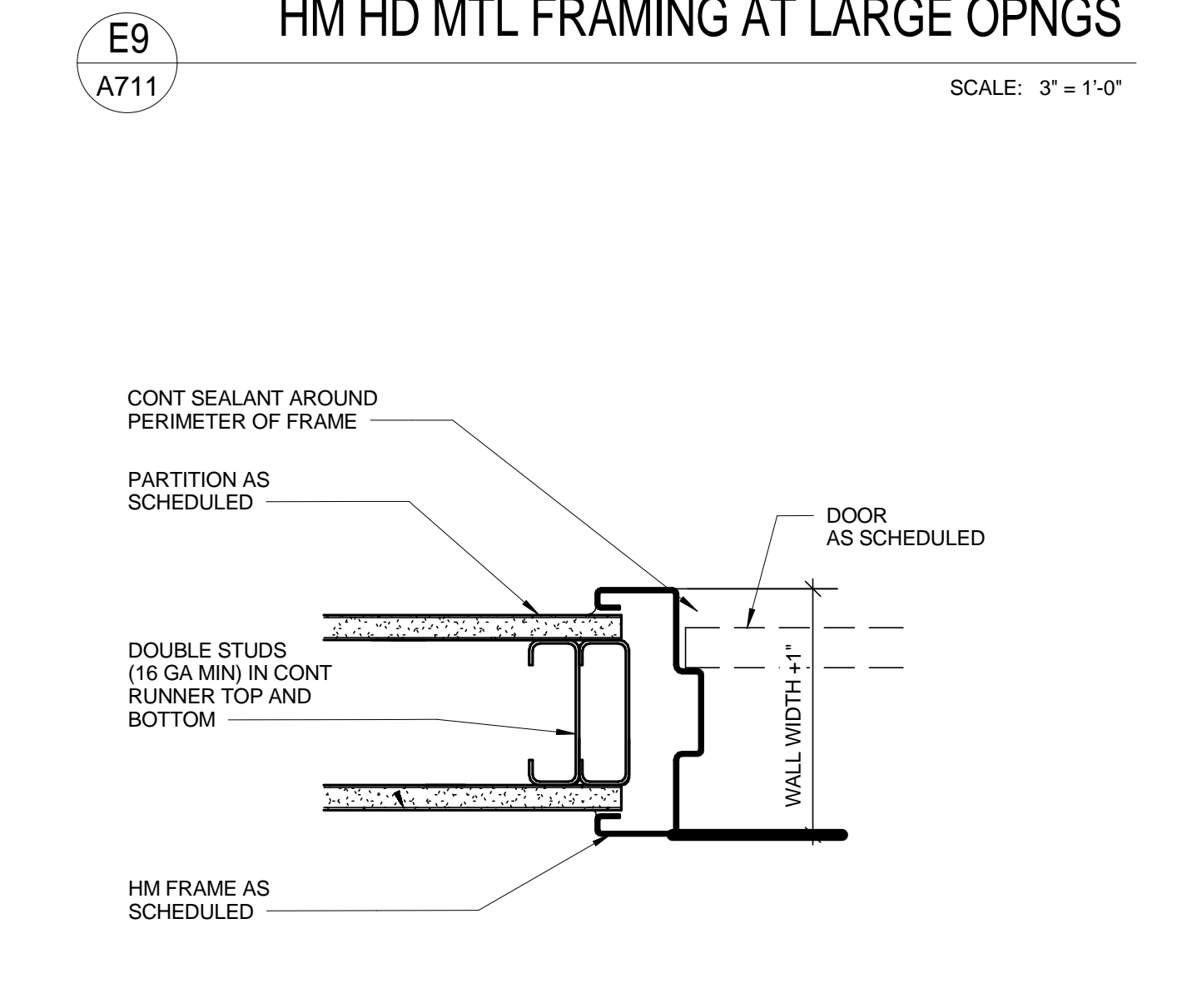
**C7**  
A711  
**HM HEAD AT MTL STUD FRAMING**  
SCALE: 3" = 1'-0"



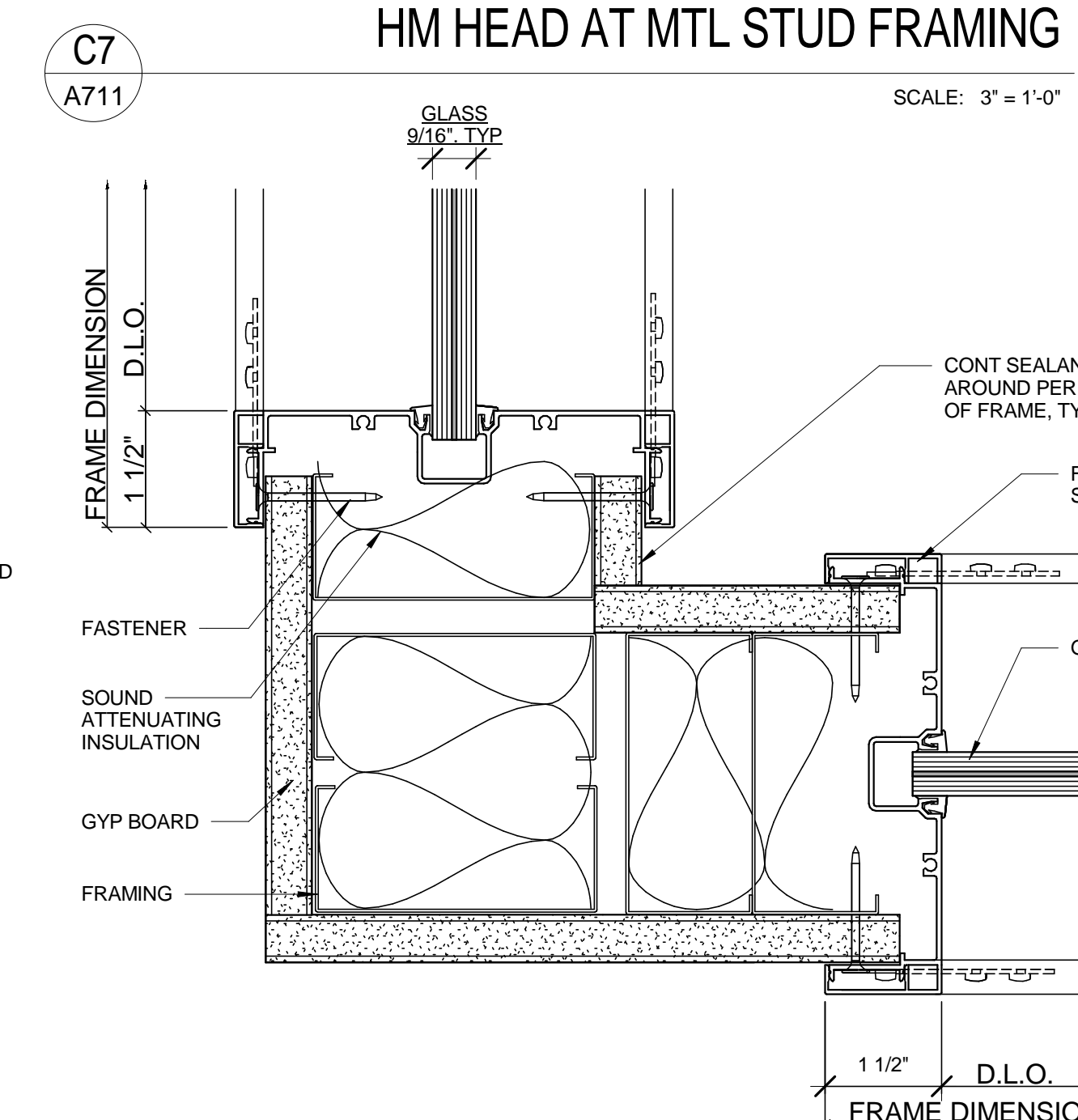
**C5**  
A711  
**GLASS WALL SYSTEM AT HEAD**  
SCALE: 6" = 1'-0"



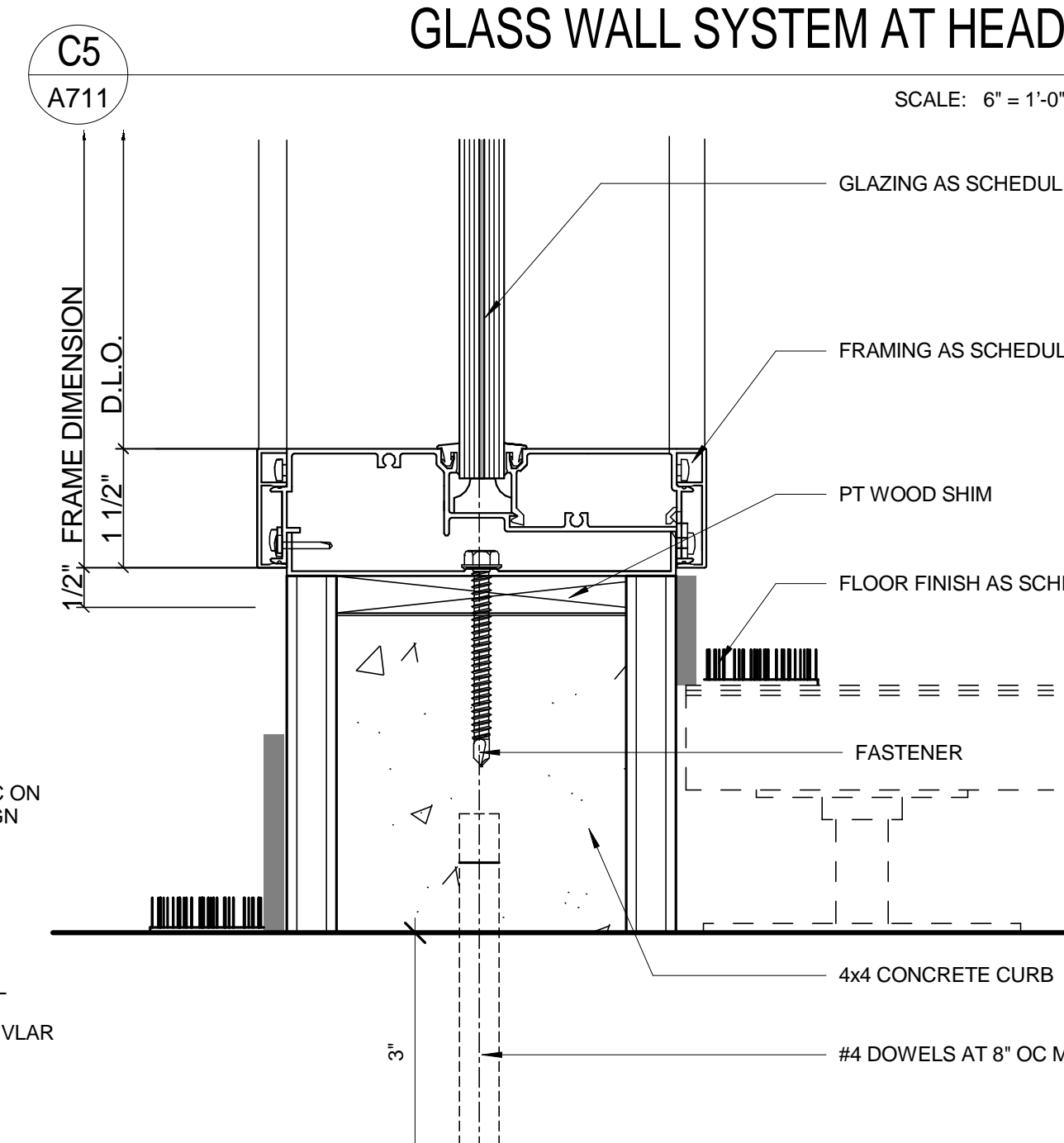
**C3**  
A711  
**ALUMINUM WINDOW JAMB AT CMU**  
SCALE: 3" = 1'-0"



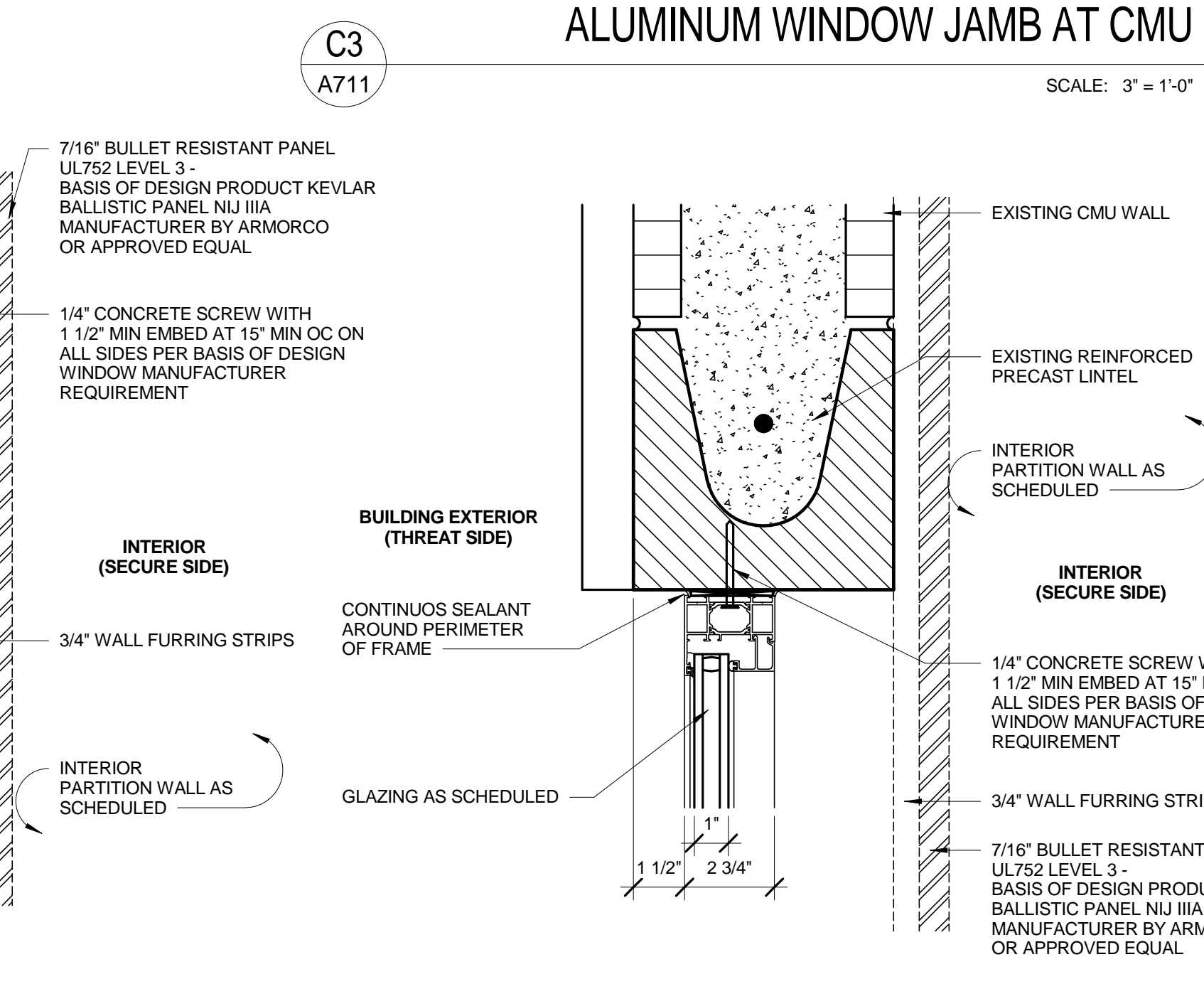
**C9**  
A711  
**HM JAMB AT MTL STUD FRAMING**  
SCALE: 3" = 1'-0"



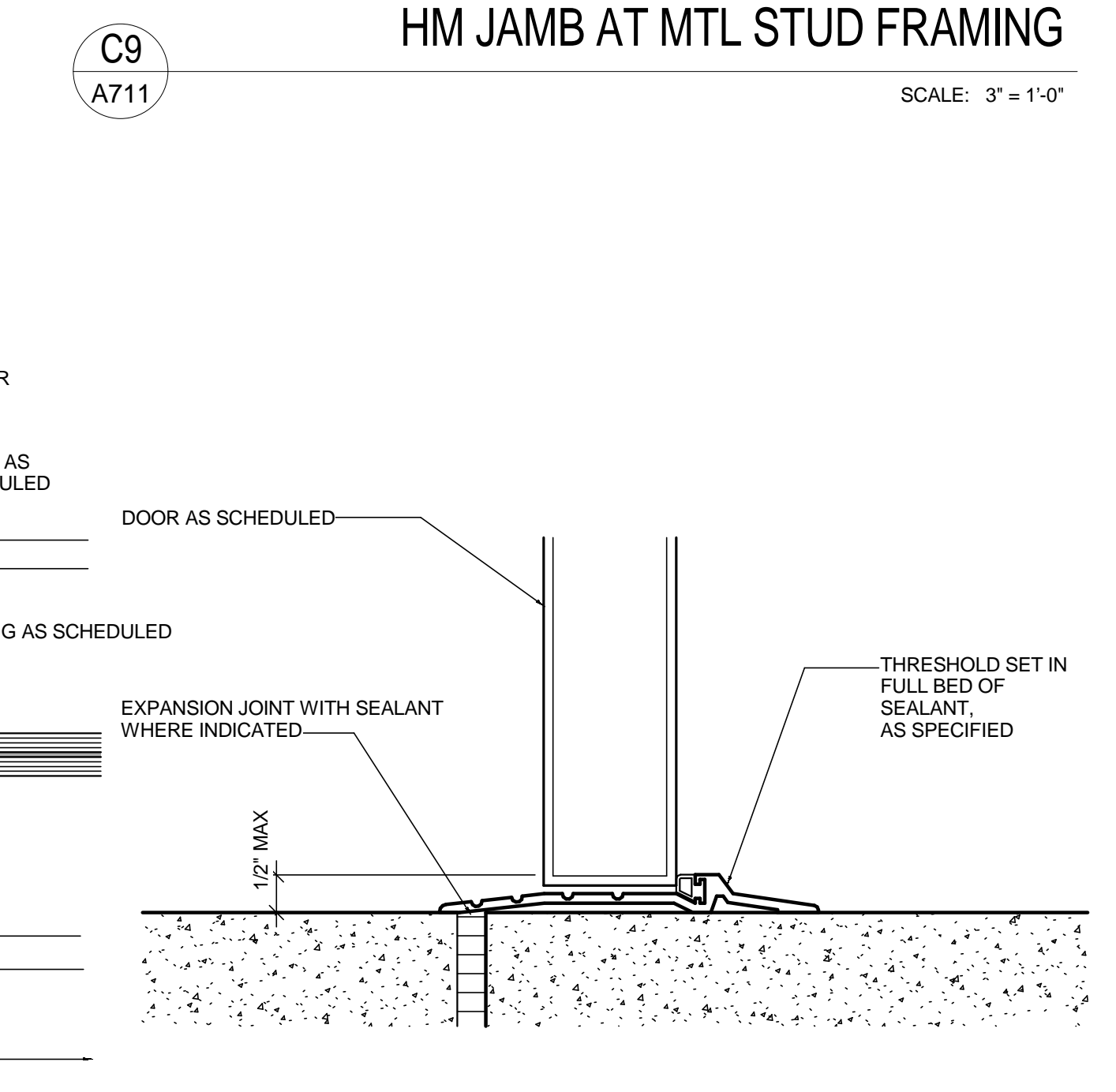
**A7**  
A711  
**GLASS WALL SYSTEM DETAIL AT CONNER**  
SCALE: 6" = 1'-0"



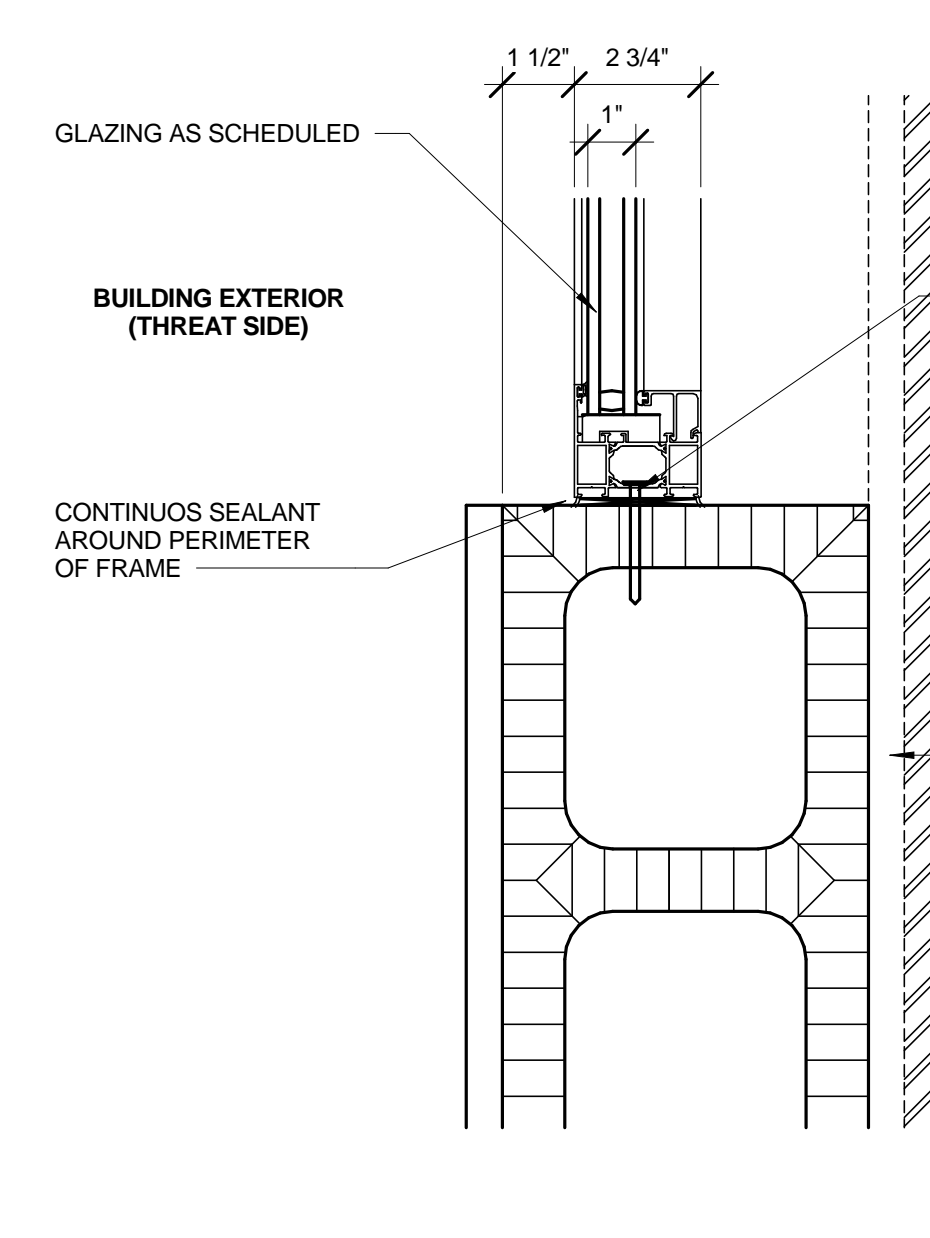
**A5**  
A711  
**GLASS WALL SYSTEM AT FLOOR DETAIL**  
SCALE: 6" = 1'-0"



**A3**  
A711  
**ALUMINUM WINDOW HAT CMU**  
SCALE: 3" = 1'-0"

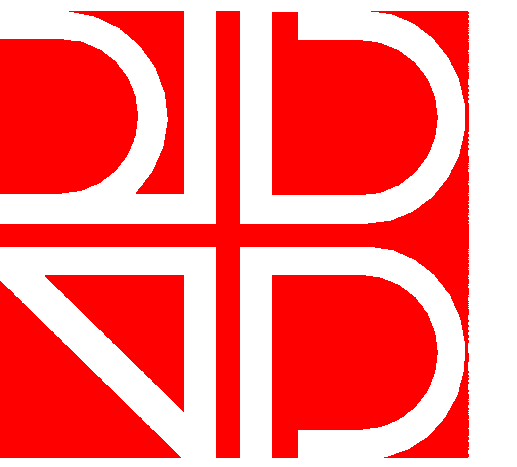


**A9**  
A711  
**TYPICAL THRESHOLD**  
SCALE: 3" = 1'-0"



**A1**  
A711  
**ALUMINUM WINDOW SILL AT CMU**  
SCALE: 3" = 1'-0"





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MILLWORK PLANS AND  
ELEVATIONS

SCALE: AS INDICATED

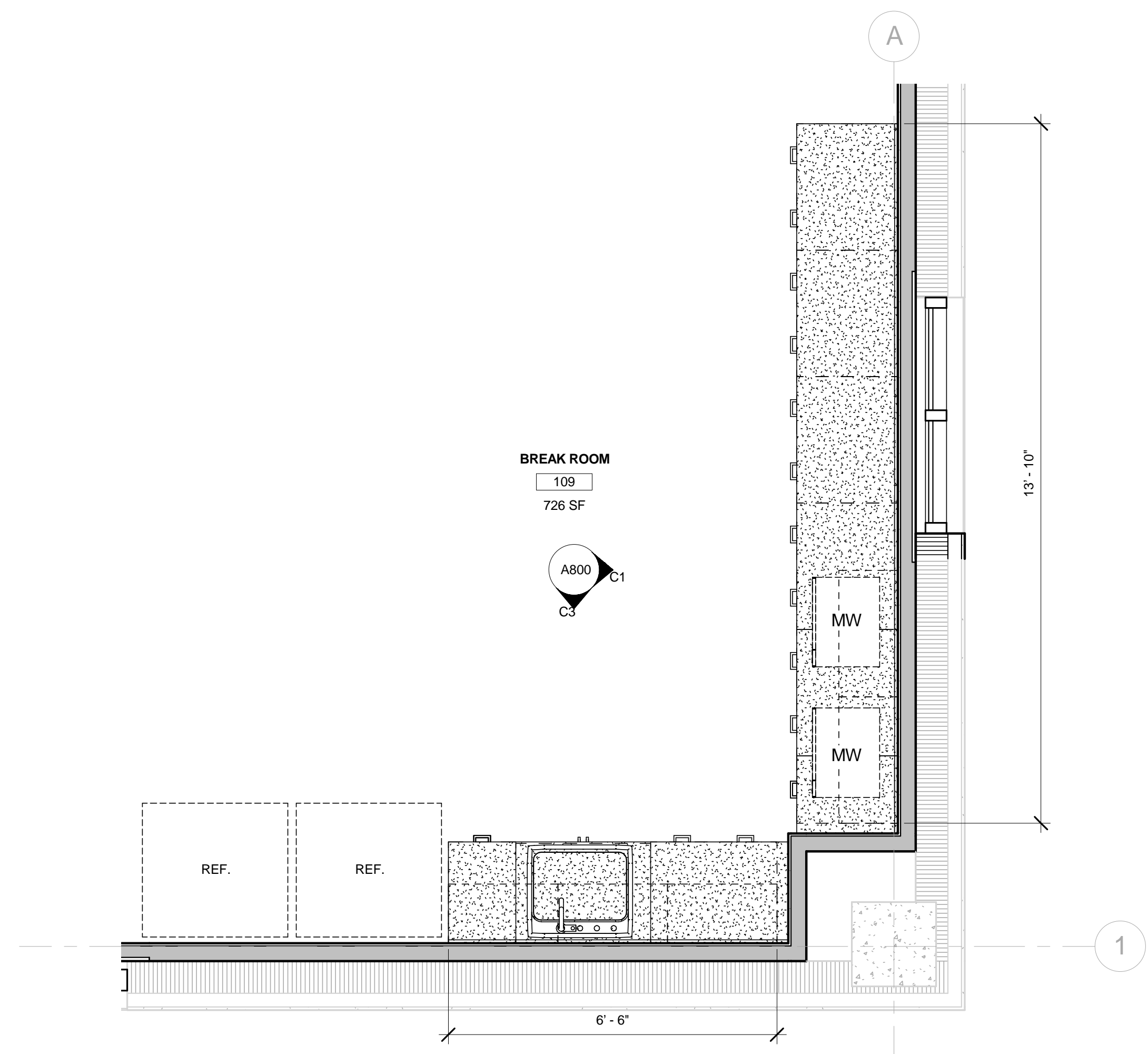
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CHECK BY: AC / JB

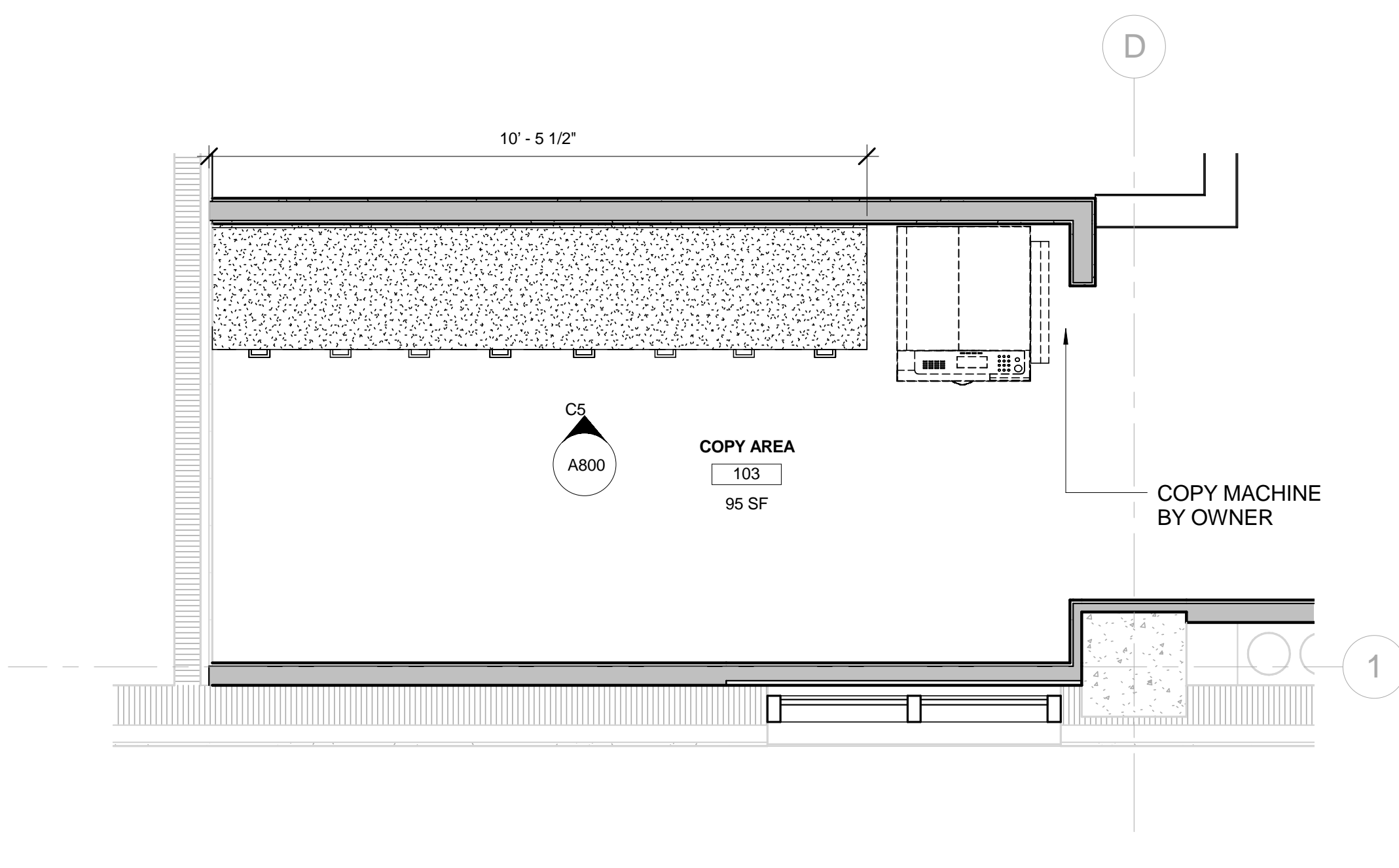
DATE: 09/15/2016

PROJECT NUMBER: 15012-0011

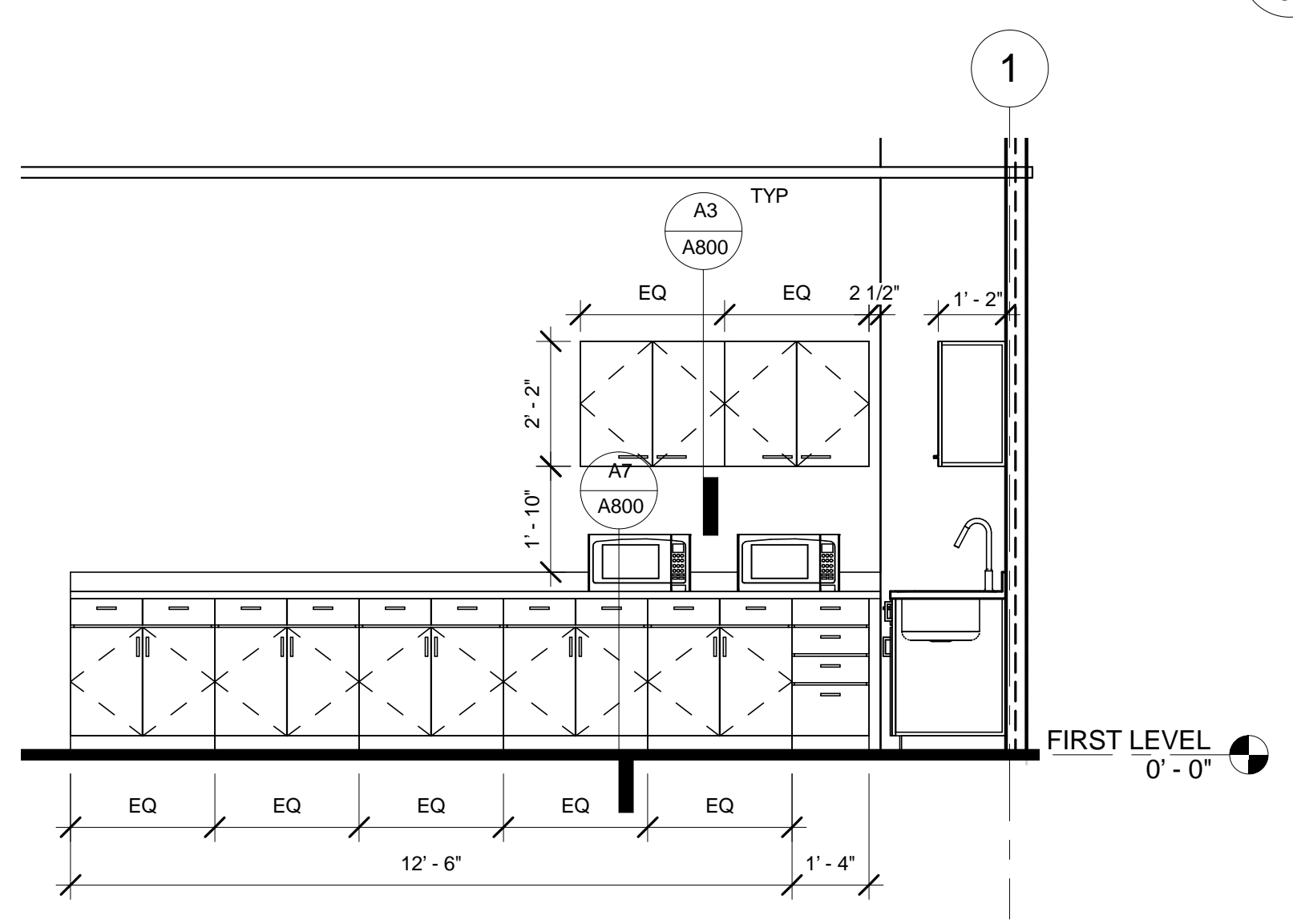
A800



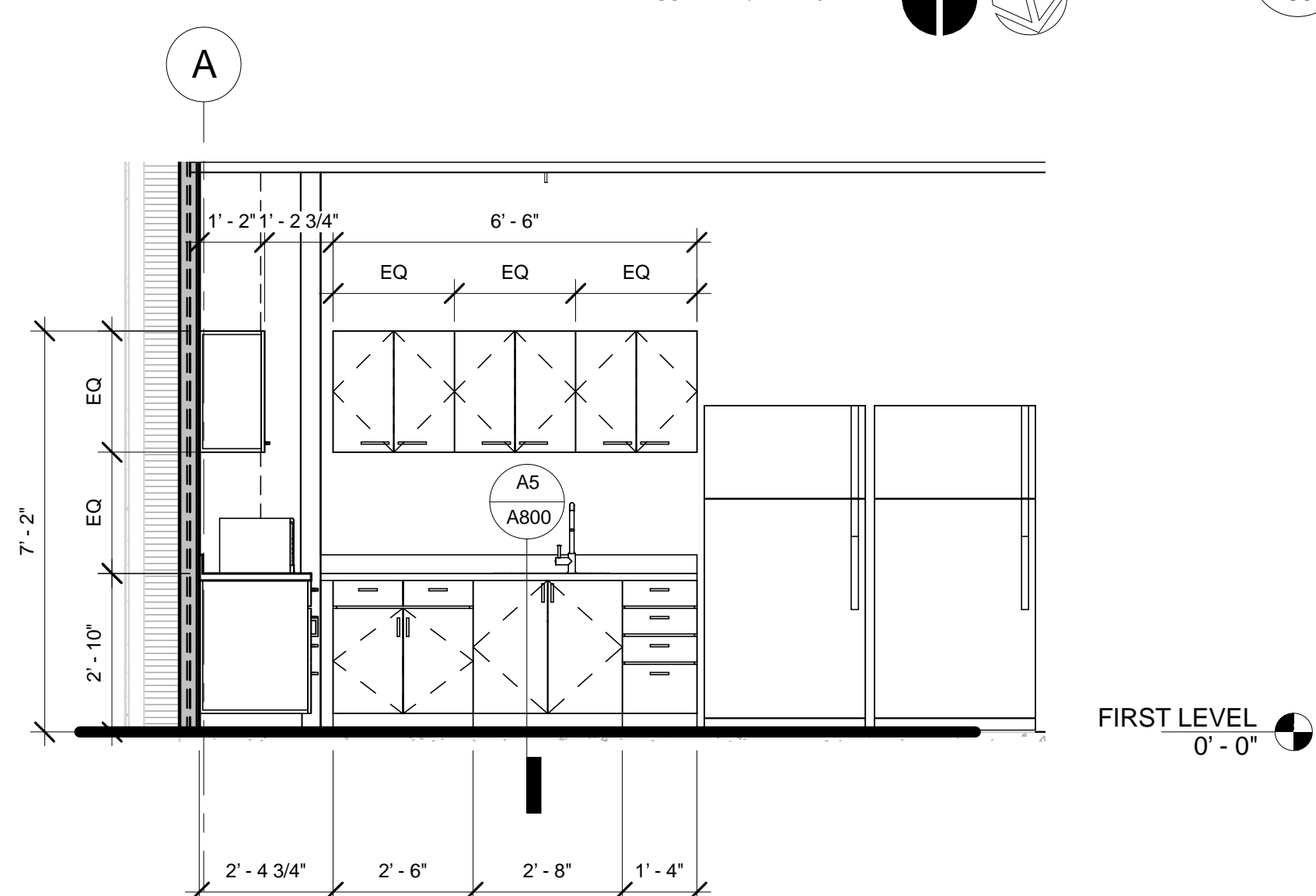
**E3**  
A800  
**BREAK AREA ENLARGED PLAN**  
SCALE: 1/2" = 1'-0"  
PLAN NORTH TRUE NORTH



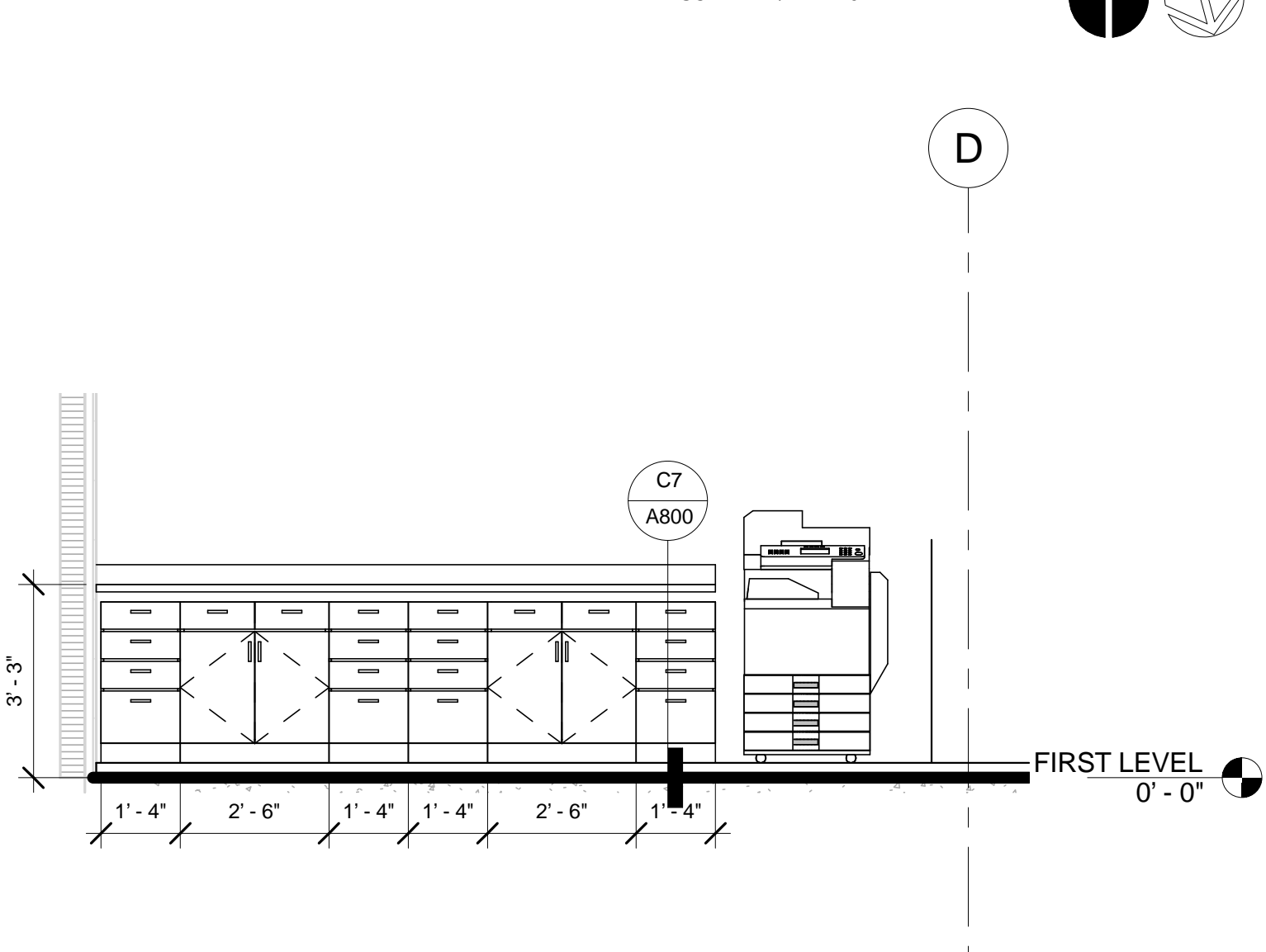
**E5**  
A800  
**COPY AREA ENLARGED PLAN**  
SCALE: 1/2" = 1'-0"  
PLAN NORTH TRUE NORTH



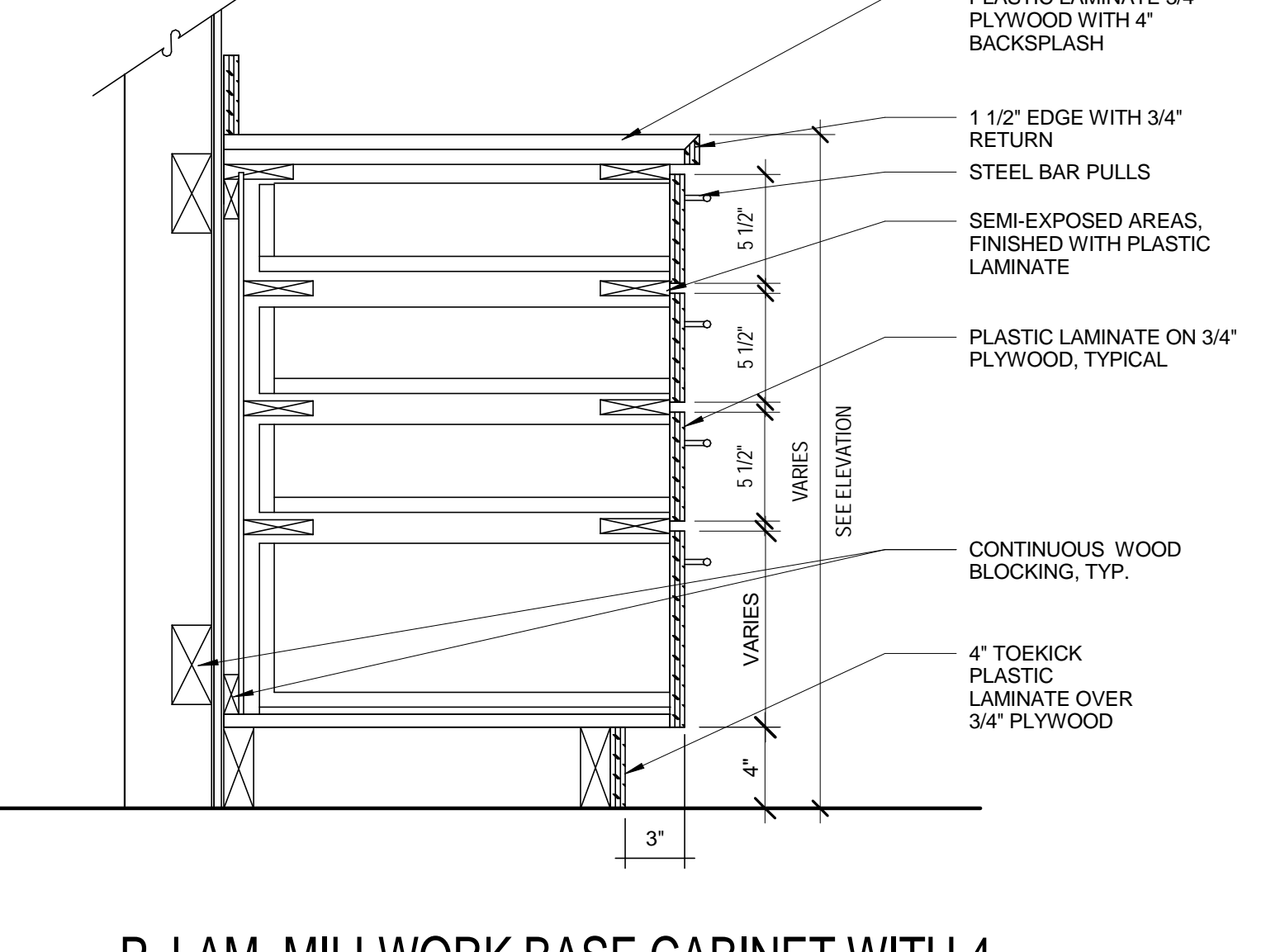
**C1**  
A800  
**A3 - BREAK ROOM ELEVATION**  
SCALE: 3/8" = 1'-0"



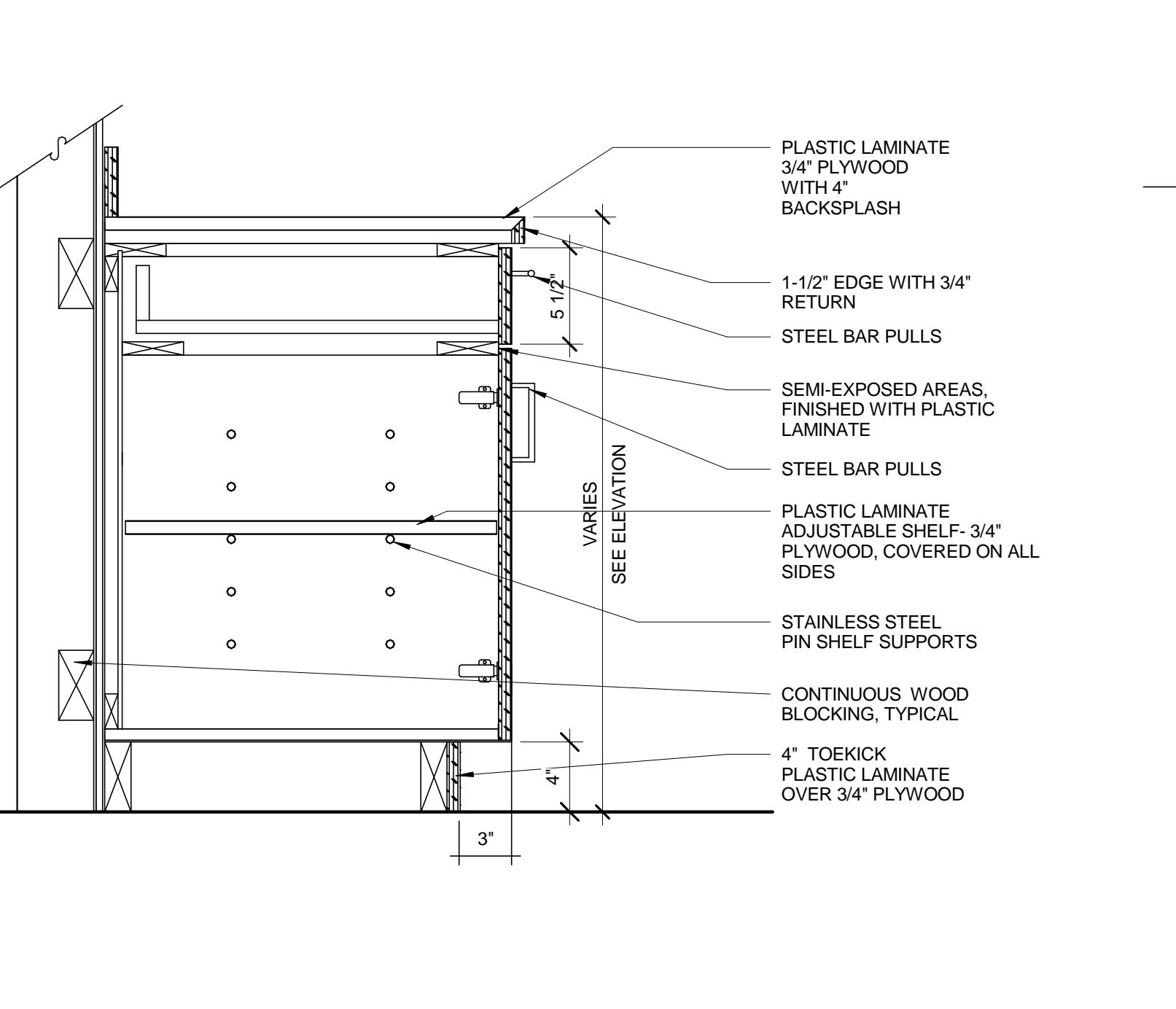
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**BREAK ROOM ELEVATION**  
SCALE: 3/8" = 1'-0"



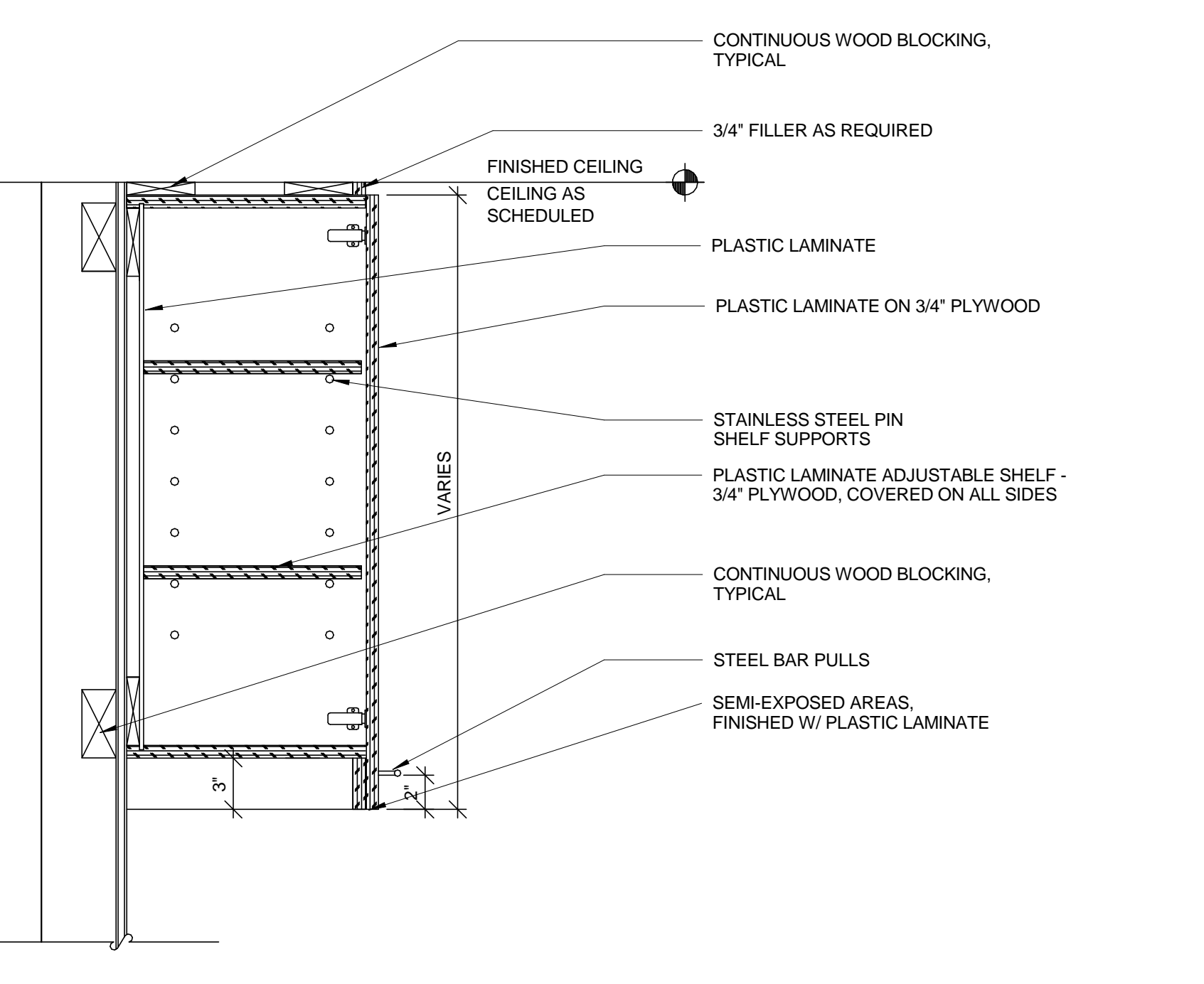
**C5**  
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**COPY AREA ELEVATION**  
SCALE: 3/8" = 1'-0"



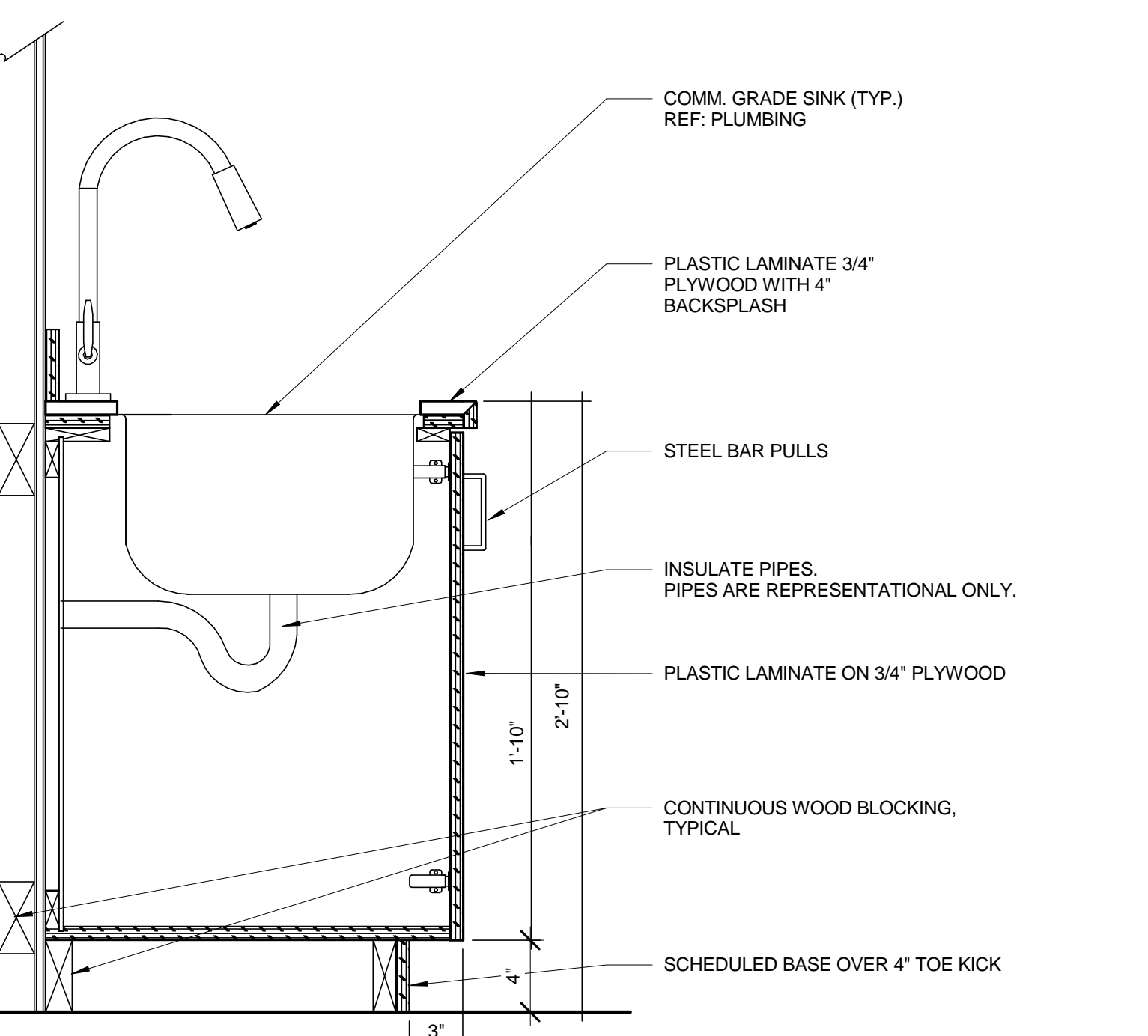
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**P. LAM. MILLWORK BASE CABINET WITH 4 DRAWERS**  
SCALE: 1 1/2" = 1'-0"



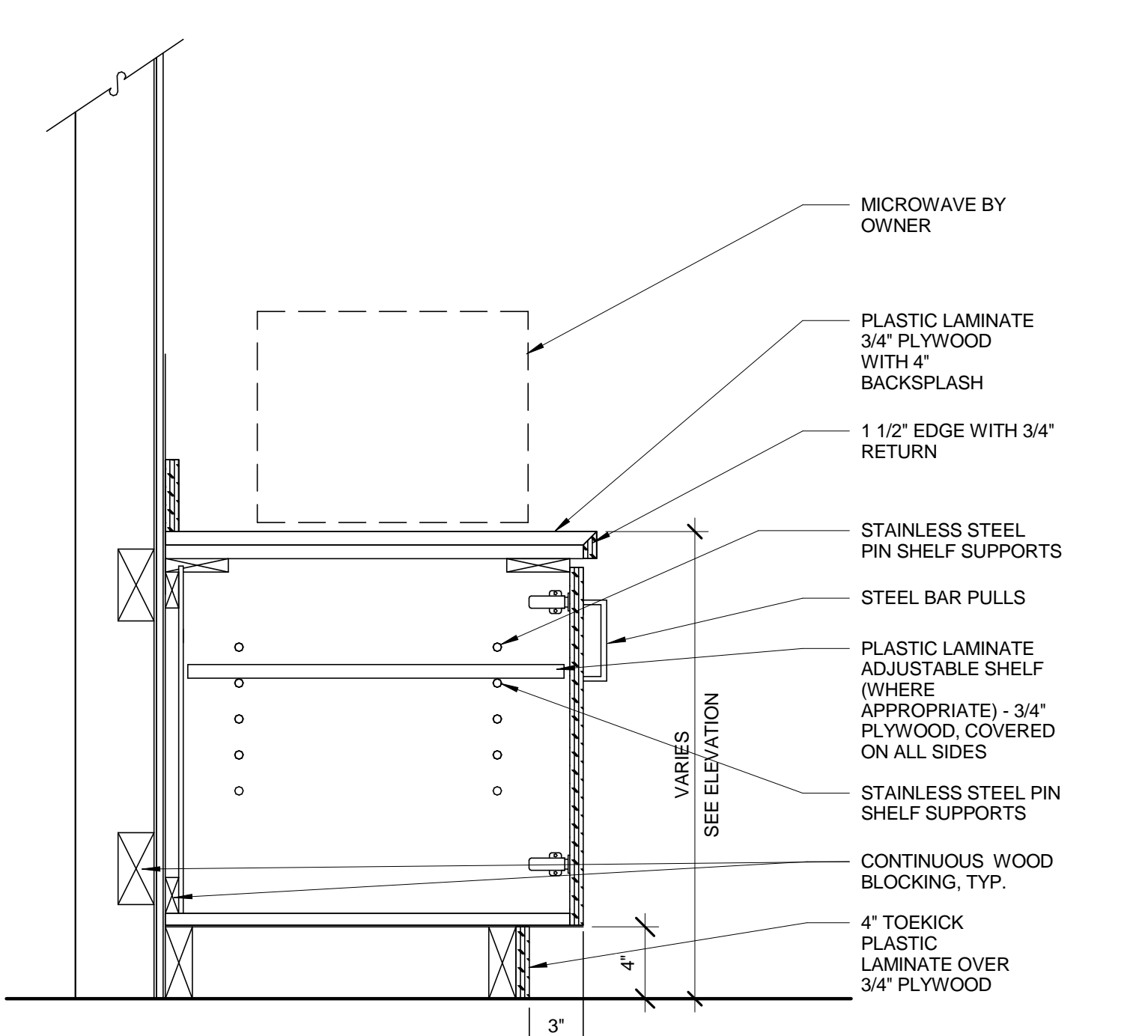
**A1**  
A800  
**P. LAM MILLWORK BASE CABINET WITH DRAWER**  
SCALE: 1 1/2" = 1'-0"



**A3**  
A800  
**P. LAM MILLWORK UPPER CABINET**  
SCALE: 1 1/2" = 1'-0"

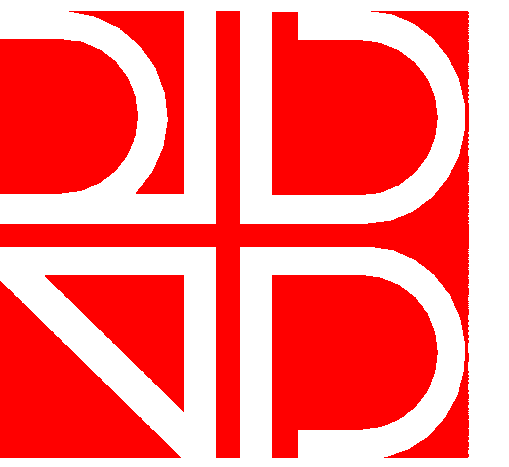


**A5**  
A800  
**P. LAM BASE CABINET @ SINK**  
SCALE: 1 1/2" = 1'-0"



**A7**  
A800  
**P. LAM MILLWORK BASE CABINET @ SINGLE MICROWAVE**  
SCALE: 1 1/2" = 1'-0"





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Joseph W. Baker  
AR0013188

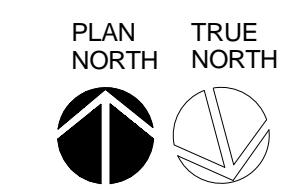
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DATE	SUBMISSION / REVISION	NO.
11/18/2016	Permit Review Responses	1

### EQUIPMENT FIRST FLOOR PLAN

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

FOR REFERENCE ONLY



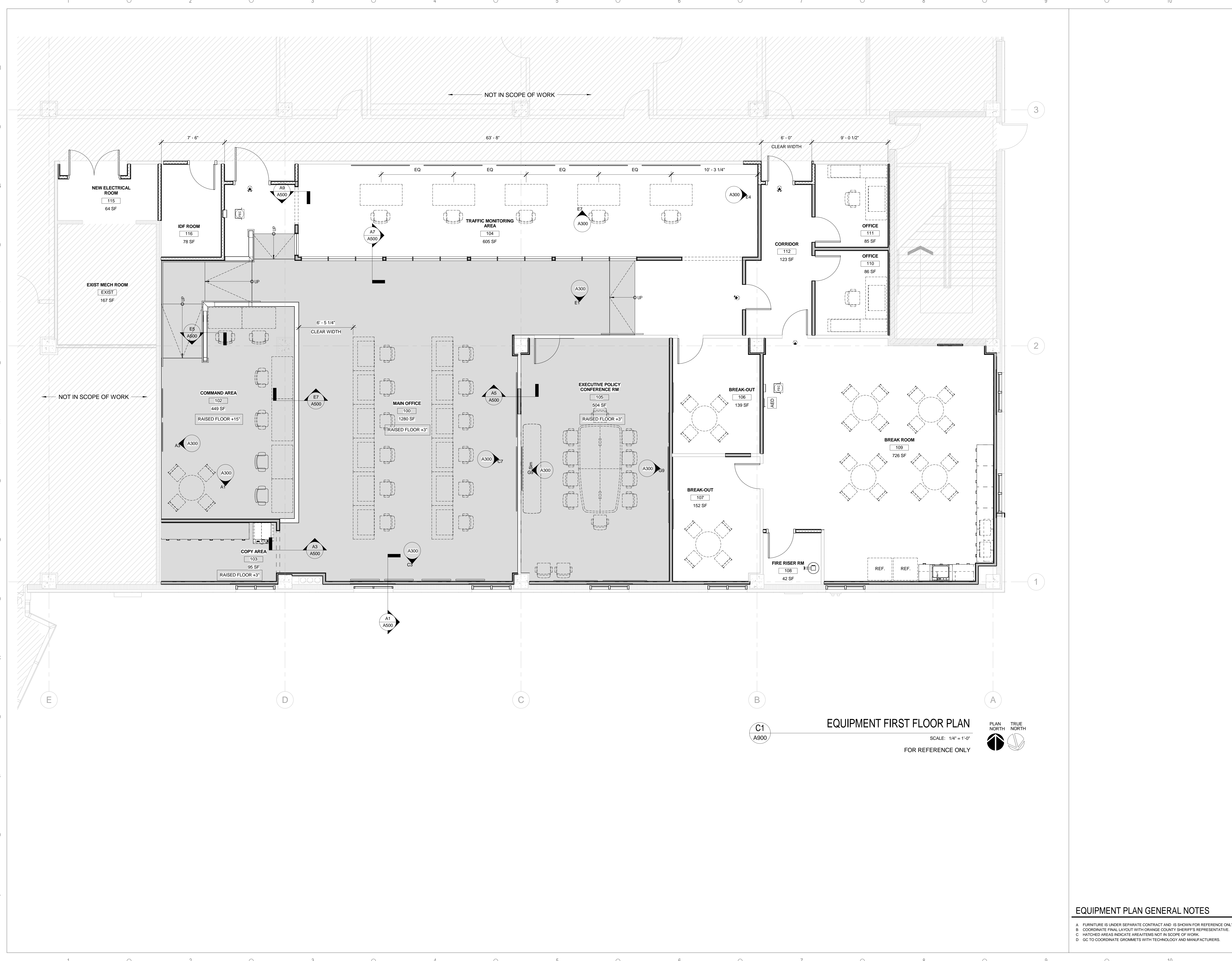
### EQUIPMENT PLAN

SCALE:	AS INDICATED
DRAWN BY:	MA / AC
CHECK BY:	AC / JB
DATE:	09/15/2016
PROJECT NUMBER:	15012-0011

#### EQUIPMENT PLAN GENERAL NOTES

- A. FURNITURE IS UNDER SEPARATE CONTRACT AND IS SHOWN FOR REFERENCE ONLY.
- B. COORDINATE FINAL LAYOUT WITH ORANGE COUNTY SHERIFF'S REPRESENTATIVE.
- C. HATCHED AREAS INDICATE AREAS/ITEMS NOT IN SCOPE OF WORK.
- D. GC TO COORDINATE GROMMETS WITH TECHNOLOGY AND MANUFACTURERS.

# A900





**ABBREVIATIONS**

AMP	AMPERES	CUH	CABINET UNIT HEATER	FIL	FILTER	LDB	LEAVING DRY BULB TEMPERATURE	SA	SUPPLY AIR
AAD	AUTOMATIC AIR DAMPER	dB	DECIBELS	FSD	COMBINATION FIRE/SMOKE DAMPER	LPC	LOW PRESSURE CONDENSATE	SF	SUPPLY FAN
ACCU	AIR COOLED CONDENSING UNIT	DB	DRY BULB TEMPERATURE	FMS	FLOW MEASURING STATION	LPS	LOW PRESSURE STEAM	SS	SOLIDS SEPARATOR
ACU	AIR CONDITIONING UNIT	DC	DUST COLLECTOR	FPM	FEET PER MINUTE	LV	LOUVER	SD	SMOKE DAMPER
ACV	AIR CONTROL VALVE	DIA	DIAMETER	FT	FEET	LWB	LEAVING WET BULB	SHC	SENSIBLE HEAT CAPACITY
AFF	ABOVE FINISHED FLOOR	DN	DOWN	GAL	GALLONS	LWT	LEAVING WATER TEMPERATURE	SP	STATIC PRESSURE
AHU	AIR HANDLING UNIT	DP	DEWPOINT TEMPERATURE	GC	GENERAL CONTRACTOR	MAX	MAXIMUM	SQ	SQUARE
APD	AIR PRESSURE DROP	DSD	DUCT SMOKE DETECTOR	GPM	GALLONS PER MINUTE	MAU	MAKEUP AIR UNIT	SRV	STATIONARY ROOF VENT
AS	AIR SEPARATOR	DWH	DOMESTIC WATER HEATER	GR	GRAINS	MBH	1000 BTUH	TD	TRIPLE DUTY VALVE
B	BOILER	DX	DIRECT EXPANSION	HD	HEAD	MCA	MINIMUM CIRCUIT AMPACITY	TDH	TOTAL DYNAMIC HEAD
BD	BYPASS DAMPER	EAT	ENTERING AIR TEMPERATURE	HP	HORSEPOWER	MIN	MINIMUM	TG	TRANSFER GRILLE
BDD	BACK DRAFT DAMPER	EC	EXPANSION COMPENSATOR	HPC	HIGH PRESSURE CONDENSATE	MOP	MAXIMUM OVERCURRENT PROTECTION	THC	TOTAL HEAT CAPACITY
BHP	BRAKE HORSE POWER	EDB	ENTERING DRY BULB TEMPERATURE	HPS	HIGH PRESSURE STEAM	MV	MANUAL VENT	TSP	TOTAL STATIC PRESSURE
BOD	BOTTOM OF DUCT	EDH	ELECTRIC DUCT HEATER	HR	HUMIDITY RATIO, HOUR	NC	NORMALLY CLOSED	TYP	TYPICAL
BT	BUFFER TANK	EF	EXHAUST FAN	HRU	HEAT RECOVERY UNIT	NIC	NOT IN CONTRACT	UV	UNIT VENTILATOR
BTU	BRITISH THERMAL UNIT	EFF	EFFICIENCY	HUM	HUMIDIFIER	NO	NORMALLY OPEN, NUMBER	V	VOLT
BTUH	BRITISH THERMAL UNIT PER HOUR	ENC	ENCLOSURE	HWC	HOT WATER COIL	OA	OUTSIDE AIR	VAV	VARIABLE AIR VOLUME
C	COMMON	ERU	ENERGY RECOVERY UNIT	HWS	HOT WATER SUPPLY	P	PUMP	VD	VOLUME DAMPER
CCU	CEILING CASSETTE UNIT	ESP	EXTERNAL STATIC PRESSURE	HWR	HOT WATER RETURN	PD	PRESSURE DROP	VIF	VERIFY IN FIELD
CD	COLD CONDENSATE DRAIN	ET	EXPANSION TANK	HX	HEAT EXCHANGER	PG	PROPYLENE GLYCOL	VP	VACUUM PUMP
CFM	CUBIC FEET PER MINUTE	EWB	ENTERING WET BULB TEMPERATURE	HZ	HERTZ	PH	PHASE	VSD	VARIABLE SPEED DRIVE
CH	CHILLER	EWT	ENTERING WATER TEMPERATURE	IN	INCH	PSI	POUNDS PER SQUARE INCH	UH	UNIT HEATER
CHW	CHILLED WATER	EXH	EXHAUST AIR	IND	INDUCTION UNIT	RA	RETURN AIR	WB	WET BULB TEMPERATURE
CGR	CHILLED GLYCOL RETURN	EXIST	EXISTING	KW	KILOWATT	RH	RELATIVE HUMIDITY	WCU	WALL CASSETTE UNIT
CGS	CHILLED GLYCOL SUPPLY	F	FAN	LAT	LEAVING AIR TEMPERATURE	RHC	REHEAT COIL	WFS	WATER FLOW SWITCH
CWS	CHILLED WATER SUPPLY	°F	FAHRENHEIT	LB	POUND	RPM	REVOLUTION PER MINUTE	WG	WATER GAUGE
CWR	CHILLED WATER RETURN	F&T	FLOAT AND THERMOSTATIC TRAP	RTU	ROOF TOP UNIT			WH	WALL HEATER
CO	CLEANOUT	FC	FLEXIBLE CONNECTION					WPD	WATER PRESSURE DROP
CONV	CONVECTOR	FCU	FAN COIL UNIT					WWM	WELDED WIRE MESH
CP	CONDENSATE PUMP	FD	FIRE DAMPER					ZD	ZONE DAMPER
CT	COOLING TOWER								

**SYMBOLS**

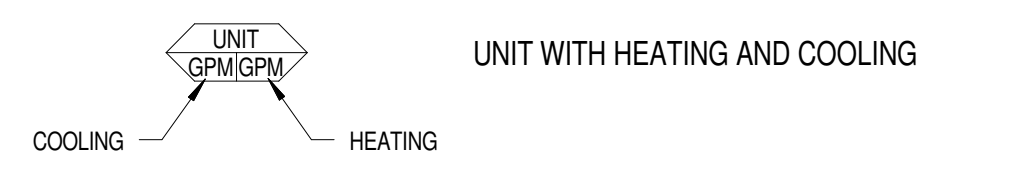
**GENERAL**

- RETURN WATER
- RETURN FAN
- REMOVALS
- DISCONNECT FROM EXISTING
- CONNECT TO EXISTING
- TEMPERATURE SENSOR WITH LOCKING GUARD
- PRESSURE SENSOR
- DAMPER MOTOR
- DIRECTION OF AIRFLOW

**DUCTWORK**

- RETURN DIFFUSER
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- SQUARE TO ROUND DUCT TRANSITION
- SQUARE MAIN TO ROUND BRANCH TAKE-OFF
- FLEXIBLE DUCT CONNECTOR
- POSITIVELY PRESSURIZED DUCT OUT OF THE PLANE
- POSITIVELY PRESSURIZED DUCT INTO THE PLANE
- NEGATIVELY PRESSURIZED DUCT OUT OF THE PLANE
- NEGATIVELY PRESSURIZED DUCT INTO THE PLANE
- SQUARE ELBOW WITH TURNING VANES
- MANUAL VOLUME DAMPER
- AUTOMATIC AIR DAMPER

- DIFFUSER DESIGNATION



- UNIT WITH AIR FLOW

- UNIT WITH HEATING OR COOLING

- GENERAL EQUIPMENT DESIGNATION

- KEYNOTE

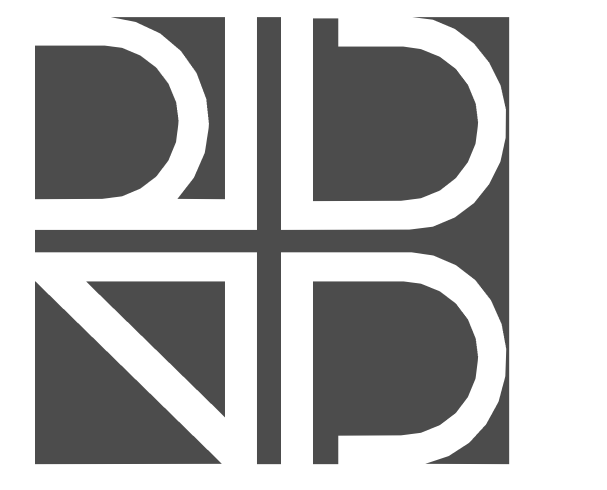
- FIRE DAMPER

- ENLARGED PLAN & DETAIL CALL OUT

- VOLUME DAMPER

**GENERAL NOTES:**

1. ALL WORK SHALL CONFORM TO ALL APPLICABLE RULES, REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO FLORIDA ENERGY CODE, 2014 ED., FLORIDA BUILDING CODE, 2014 ED. AND OSHA.
2. FIELD VERIFY ALL DIMENSIONS PRIOR TO DUCTWORK FABRICATION OR ANY OTHER MECHANICAL WORK. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF EQUIPMENT, PIPING, DUCTWORK, AND PADS WITH OTHER CONTRACTORS. PROVIDE FITTINGS, ELEVATION CHANGES, TRANSITIONS, AND OFFSETS REQUIRED, WHETHER SHOWN OR NOT, TO AVOID CONFLICTS WITH WORK OF OTHER CONTRACTS.
3. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL HVAC PENETRATIONS (PIPING, DUCTWORK, ETC.) IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND WHERE SHOWN OR SPECIFIED.
4. ITEMS OF SPECIFIC MANUFACTURER'S SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVES DIRECTIONS.
5. MECHANICAL CONTRACTOR TO INSTALL ALL NECESSARY STIFFENERS, BRACES, STRUTS, ETC., WHETHER SHOWN OR NOT.
6. DIMENSIONS SHOWN "AFF" INDICATE THE ACTUAL CLEAR DIMENSIONS FROM THE BOTTOM OF THE UNIT TO THE FINISHED FLOOR ELEVATION, UNLESS INDICATED OTHERWISE.
7. SUPPORT AND EQUIPMENT DETAILS MAY VARY TO SUIT EQUIPMENT AND PARTS SUPPLIED.
8. WELD ALL STEEL ANGLE JOINTS UNLESS OTHERWISE SHOWN.
9. PROVIDE NECESSARY BY-PASSES AND BALANCING MEANS AS REQUIRED TO ASSURE PROPER SYSTEM OPERATION.
10. ALL DUCT DIMENSIONS SHOWN ARE "SIDE SEEN" BY "SIDE NOT SEEN" AND ARE THE CLEAR INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.
11. PROVIDE ACCESS DOORS AND CLEARANCES FOR EASY ACCESS TO ALL FIRE DAMPERS, CONTROL DAMPERS, LOUVERS, FILTERS, COILS, AND FANS.
12. BRANCH DUCTS TO REGISTER SHALL BE THE SAME SIZE AS REGISTER UNLESS INDICATED OTHERWISE.
13. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, FOR PRECISE LOCATION OF DIFFUSERS AND REGISTERS.
14. PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH TAKE-OFFS AND WHERE SHOWN.
15. PROVIDE ALL CONTROL AND INTERLOCK WIRING REQUIRED OR SPECIFIED THAT IS NOT PROVIDED BY THE ELECTRICAL CONTRACTOR.
16. COORDINATE WITH ELECTRICAL CONTRACTOR AND FIRE PROTECTION CONTRACTOR REGARDING THE RESPONSIBILITIES FOR SUPPLYING, INSTALLING AND WIRING OF HVAC-RELATED DISCONNECT SWITCHES, STARTERS, SAFETY INTERLOCKS, EMERGENCY SHUTDOWN AND WIRING.
17. WORK ON M-SERIES DRAWINGS IS BY THE MECHANICAL CONTRACTOR (MC) UNLESS OTHERWISE NOTED.
18. VERIFY ALL LOCATIONS, DIMENSIONS, EQUIPMENT ARRANGEMENTS, CLEARANCES AND ELECTRICAL CHARACTERISTICS IN THE FIELD PRIOR TO BID. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
19. PRIOR TO CUTTING THROUGH FLOORS AND WALLS THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL STRUCTURAL MEMBERS, JOISTS, AND OR COLUMNS. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. DO NOT CUT ANY STRUCTURAL MEMBERS UNLESS SPECIFICALLY DIRECTED TO DO SO.
20. THE MECHANICAL CONTRACTOR SHALL REMOVE DUCTWORK BACK TO A POINT WHICH WILL ALLOW THE INSTALLATION OF SUPPORT STEEL THAT IS REQUIRED / RELATED TO THE HVAC EQUIPMENT (IE RTU INSTALLATION). THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR IN THE LOCATIONS WHICH WILL REQUIRE MECHANICAL SUPPORT STEEL.
21. ALL EXISTING TO REMAIN DIFFUSERS AND DUCT SYSTEMS TO BE REBALANCED TO CFM INDICATED
22. PATCH AND SEAL DUCT WHERE BRANCHES / TAKEOFFS HAVE BEEN REMOVED AND NO NEW CONNECTION IS NEEDED.
23. CAP AND SEAL PIPING WHERE BRANCHES / TAKEOFFS HAVE BEEN REMOVED AND NO NEW CONNECTION IS NEEDED.



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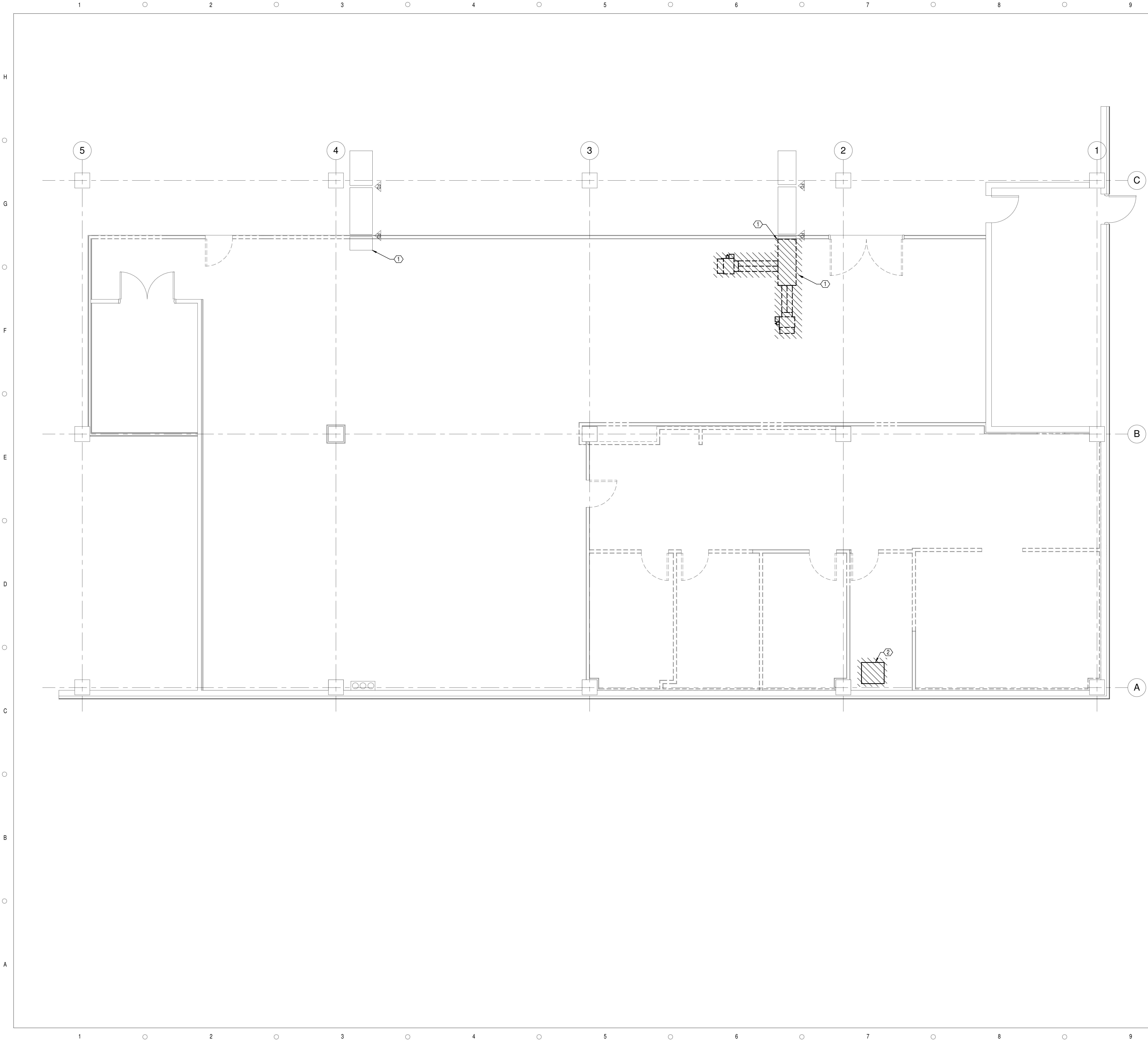
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**LEGEND,  
ABBREVIATIONS AND  
GENERAL NOTES**

SCALE: AS INDICATED  
DRAWN BY: P. ROWAN  
CHECK BY: M. MCQUINN  
DATE: 09/15/2016  
PROJECT NUMBER: 15012-0011

**M-100**



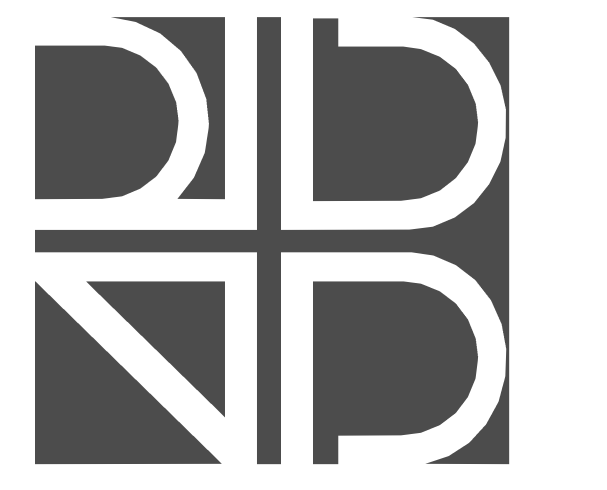


**GENERAL DEMOLITION NOTES:**

1. COORDINATE DEMOLITION WITH OTHER CONTRACTORS.
2. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH OCCUPIED BUILDING AREAS. SERVICE TO OTHER PARTS OF BUILDING SHALL REMAIN ACTIVE.
3. DISCONNECT, CAP, AND IDENTIFY DESIGNATED UTILITIES WITHIN DEMOLITION AREAS.
4. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER. PROTECT EXISTING SUPPORTING STRUCTURAL MEMBERS AND PARTITIONS TO REMAIN.
5. EXCEPT WHERE NOTED OTHERWISE, REMOVE DEMOLISHED MATERIALS FROM SITE. DO NOT DISPOSE OF ANY MATERIAL ON SITE.
6. REMOVE DEMOLISHED MATERIAL FROM SITE AS WORK PROGRESSES. UPON COMPLETION OF WORK LEAVE AREAS IN CLEAN CONDITION.
7. COMPLETELY REMOVE ALL PIPING, DUCTWORK, HANGERS, ETC..
8. PROVIDE REINSULATION TO EXISTING DISTRIBUTION AND SERVICES SCHEDULED TO REMAIN IN USE.
9. DEMOLITION SHALL INCLUDE REMOVAL OF ALL STRAPS, HANGERS, CLAMPS, CHANNEL, AND OTHER DEVICES USED FOR SUPPORTING EQUIPMENT.
10. DRAIN, VENT, OR DISCHARGE MECHANICAL SYSTEMS PRIOR TO DISASSEMBLY.
11. IN MECHANICAL SYSTEMS BEING REMOVED, BLANK OFF, PLUG, OR CAP ALL BRANCH LINES (DUCTWORK OR PIPING) SCHEDULED FOR DEMOLITION WHERE THEY TIE INTO MAIN LINES TO REMAIN.
12. DEMOLITION INCLUDES REMOVAL OF EQUIPMENT, SELECTED DUCTWORK, PIPING, ETC.. THE DEMOLITION DRAWINGS SHOW THE GENERAL SCOPE OF ITEMS TO BE REMOVED. IT IS THE MECHANICAL CONTRACTORS RESPONSIBILITY TO REMOVE ALL ASSOCIATED EQUIPMENT AND MATERIALS THAT ARE NOT SPECIFICALLY IDENTIFIED TO BE REUSED, TO PRODUCE A CLEAN AND WORKABLE SYSTEM.
13. REMOVE ALL OBSOLETE, FREE HANGING AND OPEN OR DEAD ENDED AIR, GLYCOL, PIPING OR DUCT.
14. THE MECHANICAL DRAWINGS ARE DIAGRAMMATICAL. IT IS NOT POSSIBLE OR THE INTENT TO SHOW ALL PIECES OF THE SYSTEMS BEING REMOVED AND/OR INSTALLED UNDER THE CONTRACT. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE A COMPLETE, RELIABLE AND WORKING SYSTEM. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO DEMOLISH ALL MATERIALS ASSOCIATED TO REMOVALS TO PROVIDE A "LIKE NEW" APPEARANCE WITHIN THE SPACES (IE NO HANGARS, TUBING ETC. ABANDONED IN PLACE UNLESS DIRECTED TO DO SO).

**KEY NOTES:**

- ① DEMOLISH EXISTING DUCTWORK, AIR TERMINALS AND MECHANICAL EQUIPMENT TO EXTENTS SHOWN.
- ② DEMOLISH EXISTING DX SPLIT SYSTEM AND ASSOCIATED CONDENSING UNIT.



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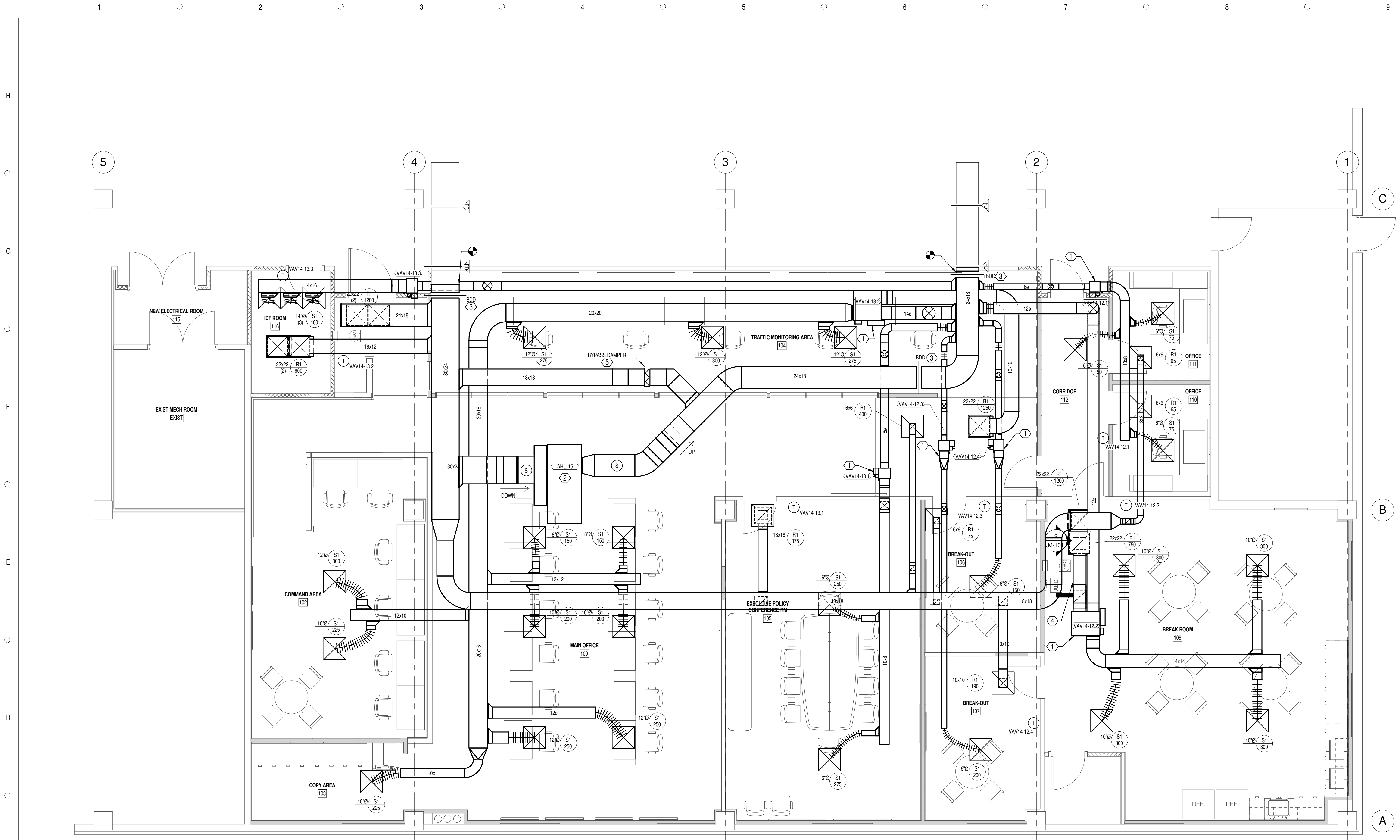
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**FIRST FLOOR HVAC  
DEMOLITION PLAN**

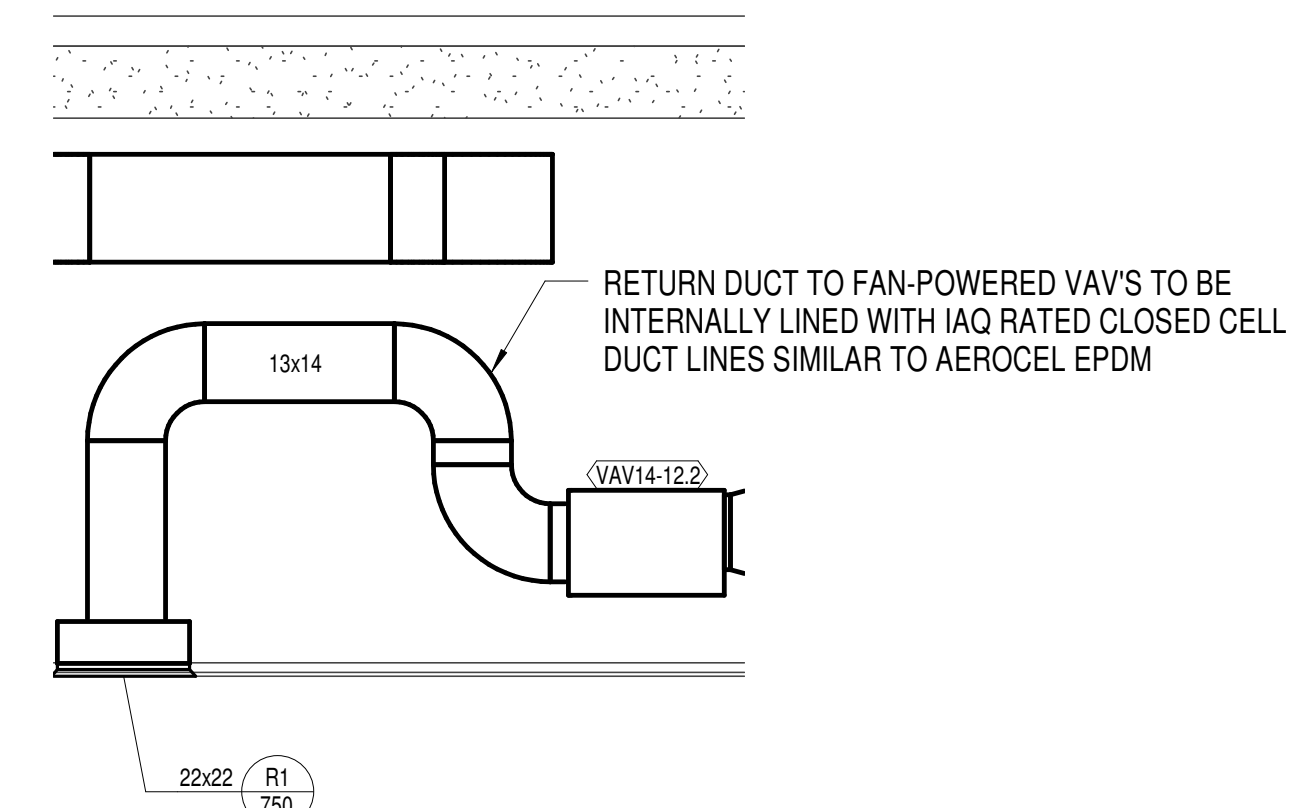
SCALE: AS INDICATED  
DRAWN BY: P. ROWAN  
CHECK BY: M. MCQUINN  
DATE: 09/15/2016  
PROJECT NUMBER: 15012-0011

**MD-101**





1  
M-101  
**01-FIRST FLOOR HVAC PLAN**  
SCALE: 1/4" = 1'-0"



**GENERAL NOTES:**

1. REFER TO M-100 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. CONTRACTOR SHALL COORDINATE DUCT ROUTINGS WITH STRUCTURAL MEMBERS.
3. COORDINATE DESTRUCTIVE DEMOLITION, IF REQUIRED, WITH OWNER.
4. FOR ALL DUCTWORK TURNS, PROVIDE RADIUS ELBOWS. IF IMPEDED BY SPACE CONSTRAINTS, MITERED ELBOWS WITH TURNING VANES MAY BE USED.
5. CONTRACTOR SHALL OPERATE EXISTING FIRE DAMPERS SHOWN AND REPLACE FUSIBLE LINKS.

**KEY NOTES:**

- ① PROVIDE AND INSTALL NEW VAV TERMINAL UNIT AT LOCATION SHOWN. CONTRACTOR SHALL MAINTAIN MANUFACTURER AND N.E.C. REQUIRED CLEARANCES. INSTALL LOW TO CEILING TO AID IN EASE OF MAINTENANCE.
- ② NEW REDUNDANT WATER-SOURCE HEAT PUMP. SUPPORT FROM STRUCTURE ABOVE. PROVIDE GALVANIZED STEEL SECONDARY DRAIN PAN BENEATH UNIT. P-TRAP AND CONTROL VALVES. PROVIDE FLOUT SWITCH WITH SECONDARY DRAIN PAN TO DISABLE UNIT. DRAIN PAN SHALL BE 2" LARGER THAN UNIT ON ALL SIDES.
- ③ PROVIDE BACKDRAFT DAMPERS SIMILAR TO RUSKIN C302. BACKDRAFT DAMPERS TO ALLOW AIRFLOW FROM MAIN AHU AND PREVENT RECIRCULATION OF AIR THROUGH BACK-UP UNIT DURING NORMAL OPERATION. WHEN BACK-UP UNIT ENGAGES, BACKDRAFT DAMPERS SHALL ALLOW AIRFLOW FROM BACK-UP UNIT AND CLOSE TO MAIN AHU.
- ④ ROUTE RETURN DUCTWORK SO TO INCLUDE THREE (3) RADIUS ELBOWS REQUIRED FOR FAN-POWERED VAV UNIT. SEE DETAIL THIS SHEET FOR DUCTWORK ROUTING.
- ⑤ PROVIDE NEW MODULATING OPPOSED-BLADE BYPASS DAMPER WITHIN BYPASS DUCTWORK. DAMPER SHALL BE EQUAL TO RUSKIN C351 WITH 125V ACTUATOR. THE DAMPER INTO EXISTING BMS FOR CONTROL. DAMPER SHALL MAINTAIN SUPPLY DUCT STATIC PRESSURE SETPOINT WHILE THE BACK-UP WSP IS OPERATING.



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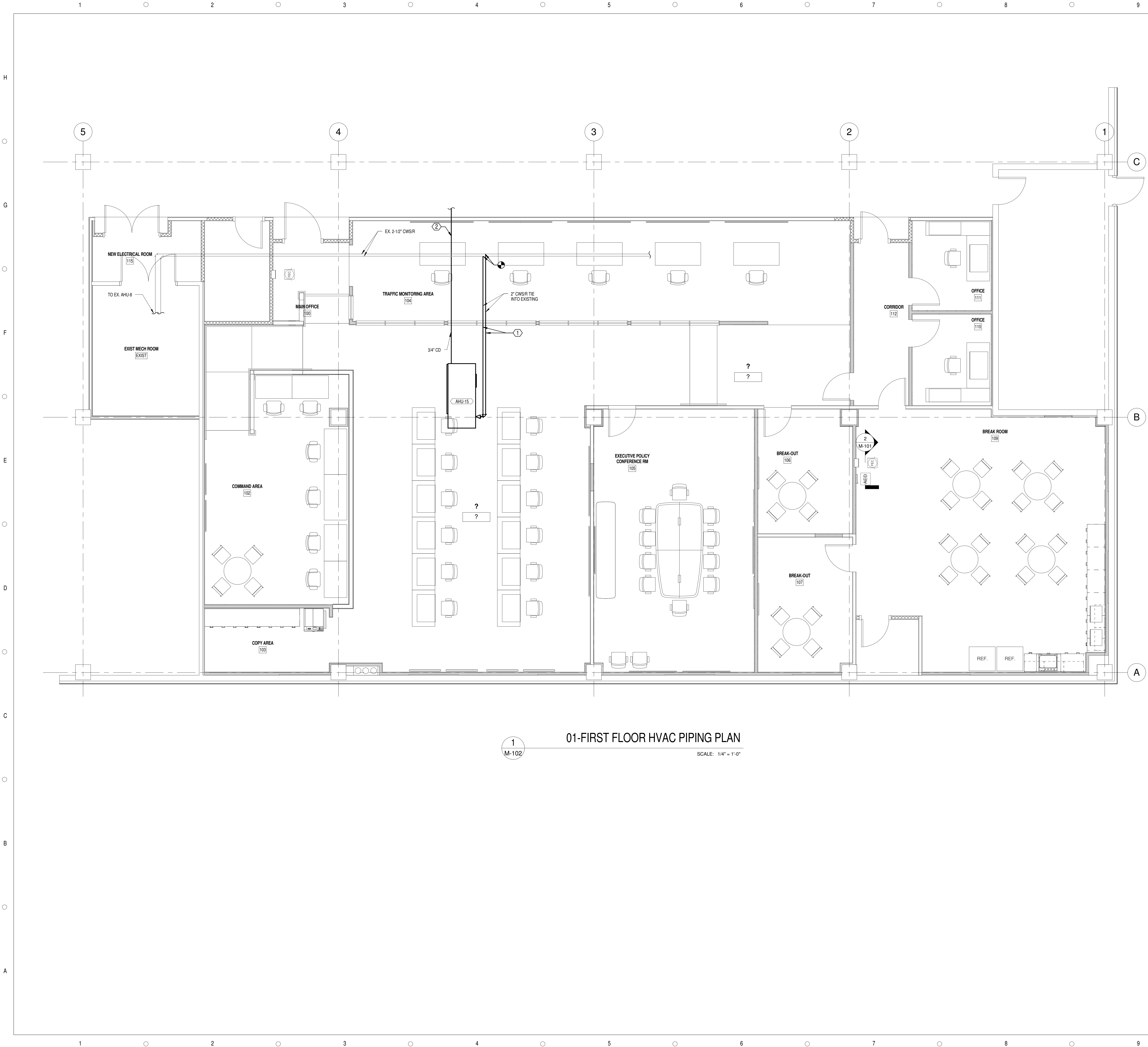
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**FIRST FLOOR HVAC  
PLAN**

SCALE:	AS INDICATED
DRAWN BY:	P. ROWAN
CHECK BY:	M. MCQUINN
DATE:	09/15/2016
PROJECT NUMBER:	15012-0011

**M-101**





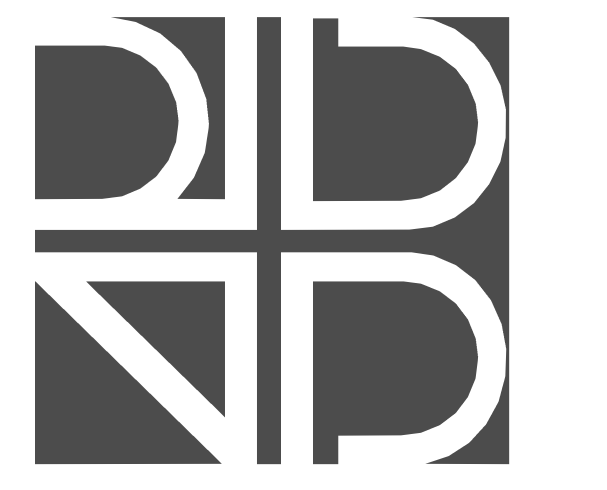
1  
M-102  
01-FIRST FLOOR HVAC PIPING PLAN  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

1. REFER TO M-100 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. CONTRACTOR SHALL COORDINATE PIPE ROUTING WITH STRUCTURAL MEMBERS.
3. COORDINATE DESTRUCTIVE DEMOLITION, IF REQUIRED, WITH OWNER.

**KEY NOTES:**

- ① CONNECT NEW 2" CONDENSER WATER SUPPLY AND RETURN PIPING TO NEW WATER SOURCE HEAT PUMP. CONNECT NEW 2" PIPING TO EXISTING 2-1/2" PIPING AS SHOWN. ROUTE PIPING AS TO PROVIDE AS MUCH ROOM AS POSSIBLE FOR FUTURE ACCESS TO UNIT.
- ② ROUTE 3/4" CONDENSATE DRAIN LINE FROM WATER SOURCE HEAT PUMP TO EXISTING 2" CONDENSATE DRAIN LINE LOCATED ABOVE HALLWAY. EXISTING BUILDING DRAIN LINES DRAIN TO RAIN LEADER LOCATED ON FAR EAST SIDE OF BUILDING. CONTRACTOR TO USE TYPE "L" COPPER PIPING AND INSULATE WITH A CLOSED CELL ELASTOMERIC INSULATION AND JACKET WITH 0.032" THICK EMBOSSED ALUMINUM JACKET. SLOPE AT 1/8" PER FOOT TOWARDS THE EXISTING LINE.



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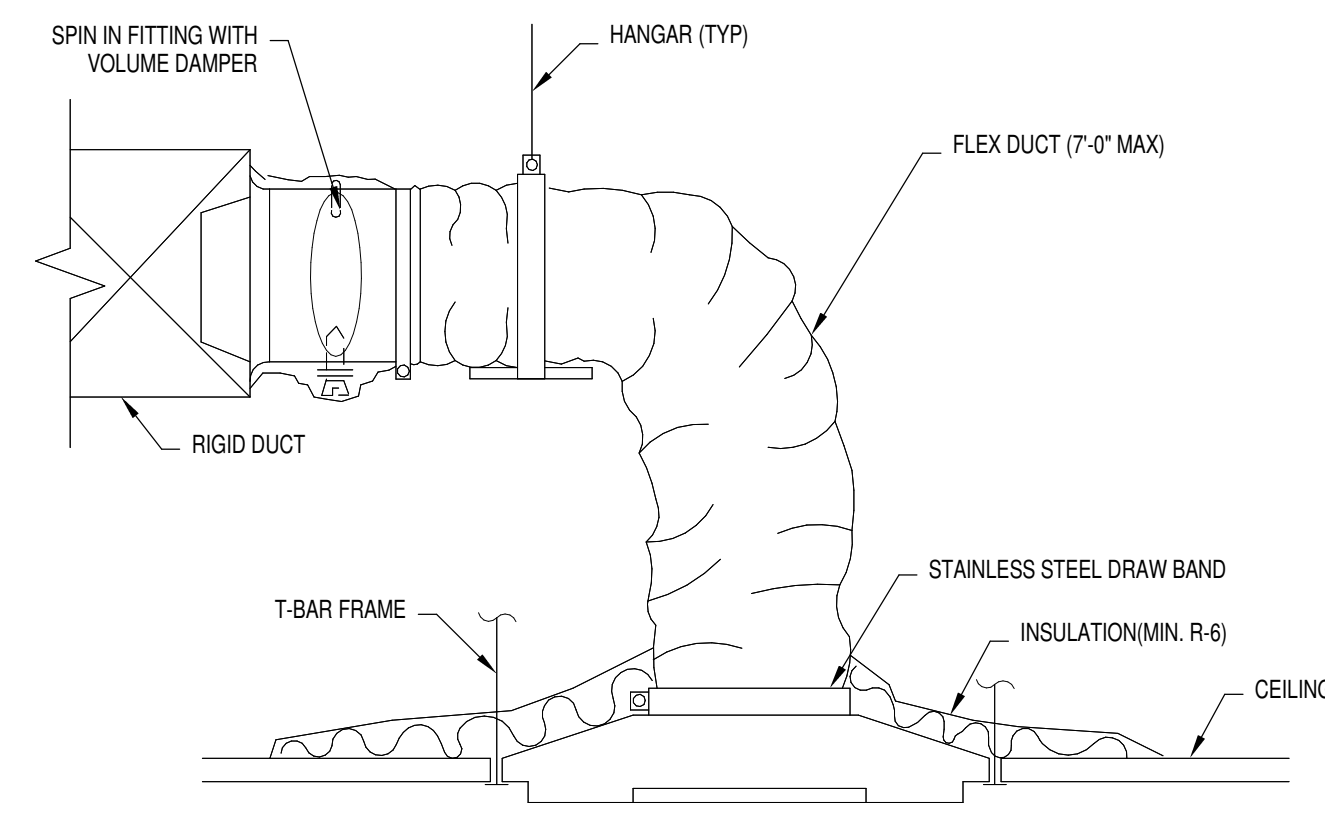
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11/18/2016	PERMIT REVIEW RESPONSES	1

**FIRST FLOOR HVAC  
PIPING PLAN**

SCALE: AS INDICATED  
DRAWN BY: P. ROWAN  
CHECK BY: M. MCQUINN  
DATE: 09/15/2016  
PROJECT NUMBER: 15012-0011

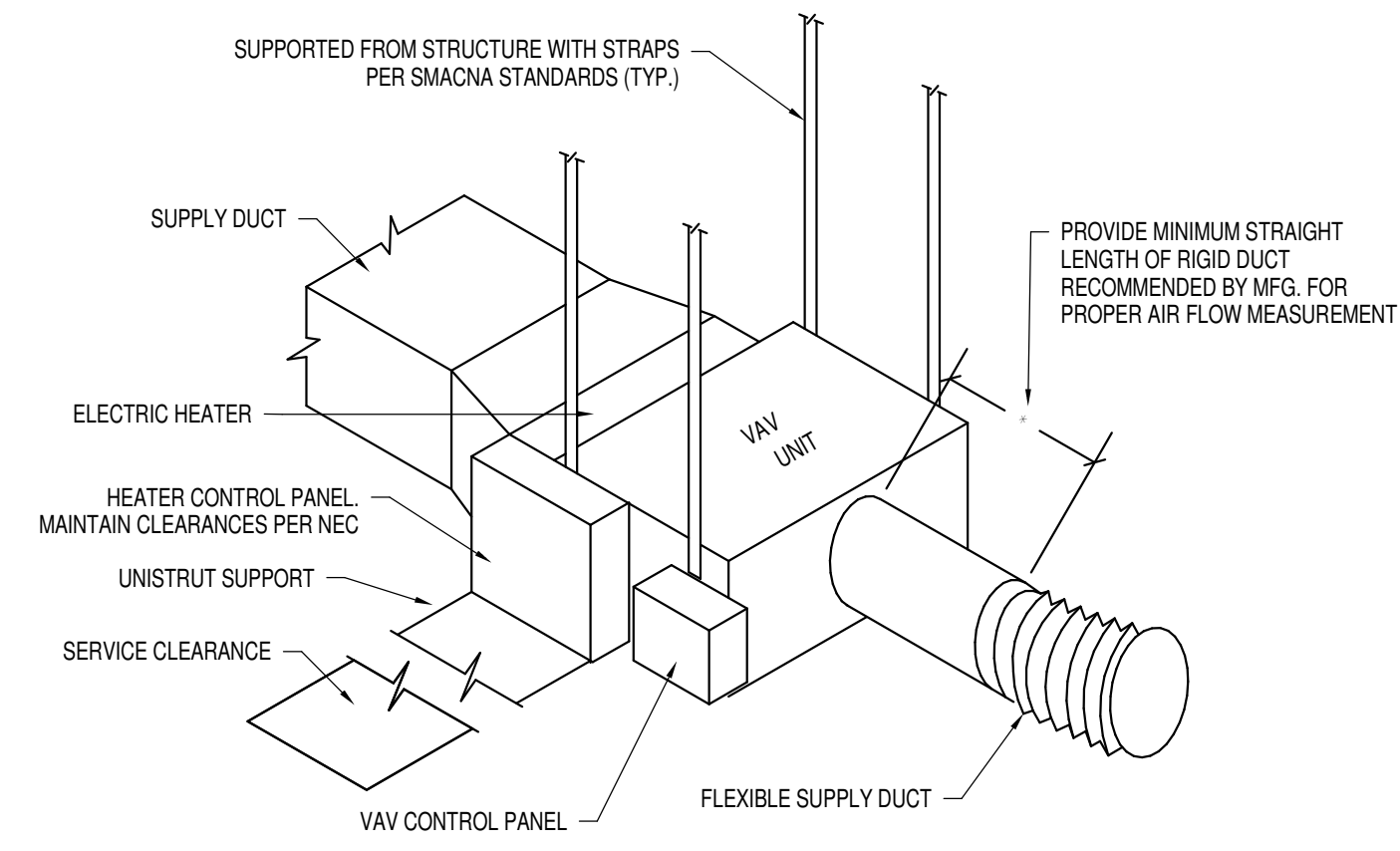
**M-102**





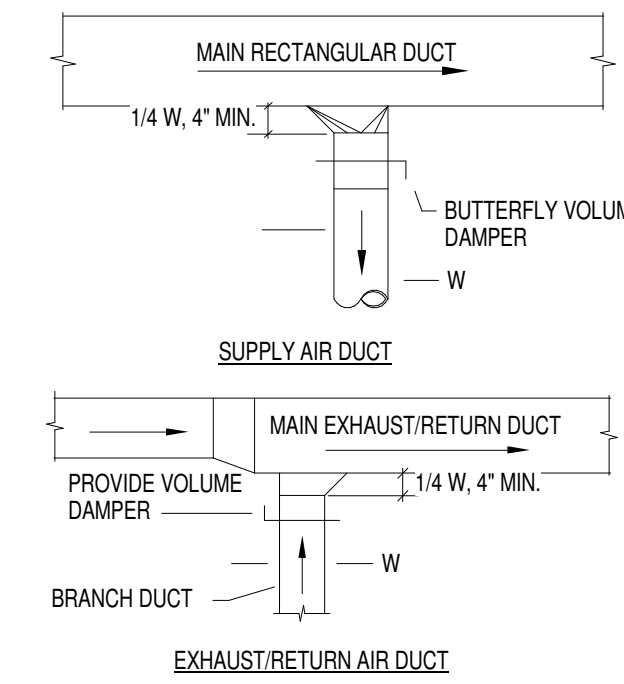
**FLEXIBLE DUCT TO DIFFUSER DETAIL**

SCALE: 12" = 1'-0"



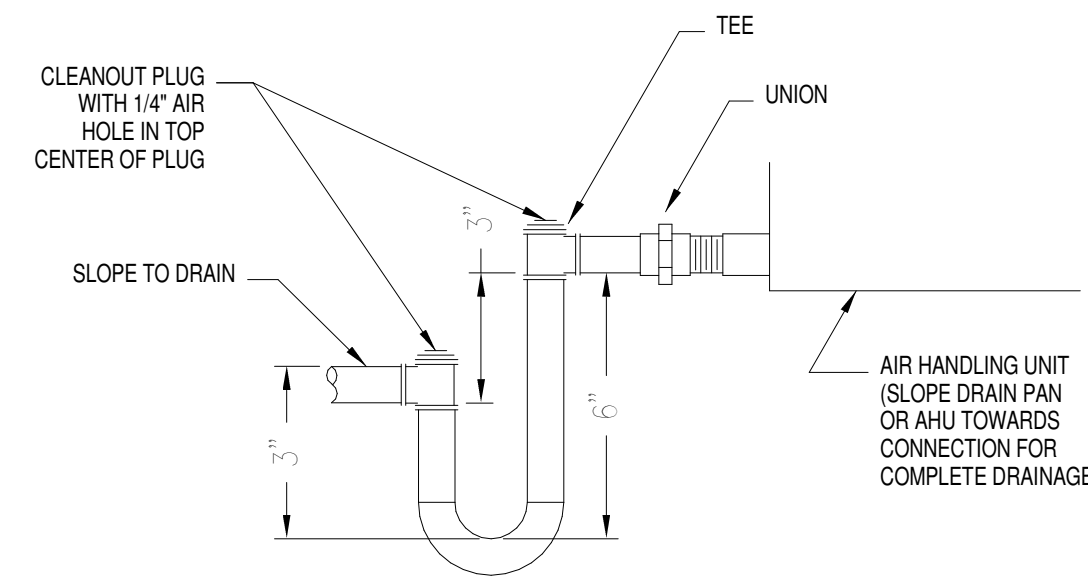
**VAV INSTALLATION DETAIL**

SCALE: 12" = 1'-0"



**BRANCH CONNECTION DETAIL**

SCALE: 12" = 1'-0"

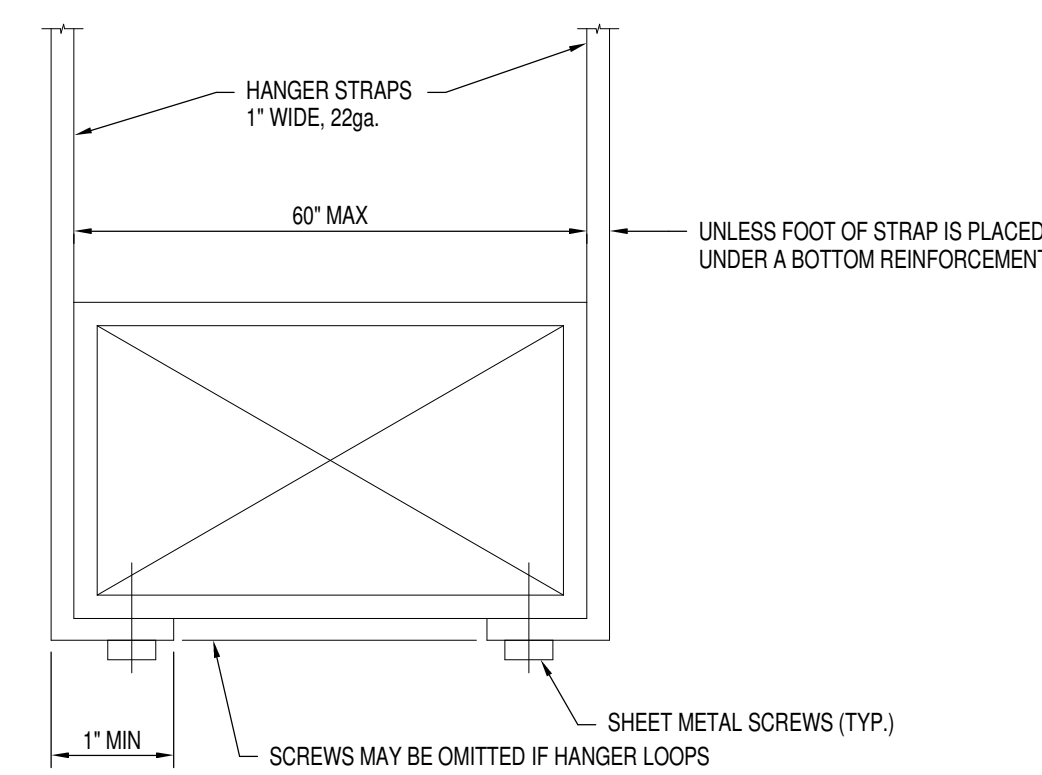


NOTE: MANUALLY FILL TRAP PRIOR TO UNIT START-UP.

3" AND 6" DIMENSIONS SHALL BE INCREASED PROPORTIONATELY BASED UPON AVAILABLE HEIGHT ABOVE THE FLOOR OR ROOF SURFACE. USE ALL HEIGHT AVAILABLE. COORDINATE HEIGHT OF AHU SUPPORT TO OBTAIN MINIMUM DIMENSIONS INDICATED.

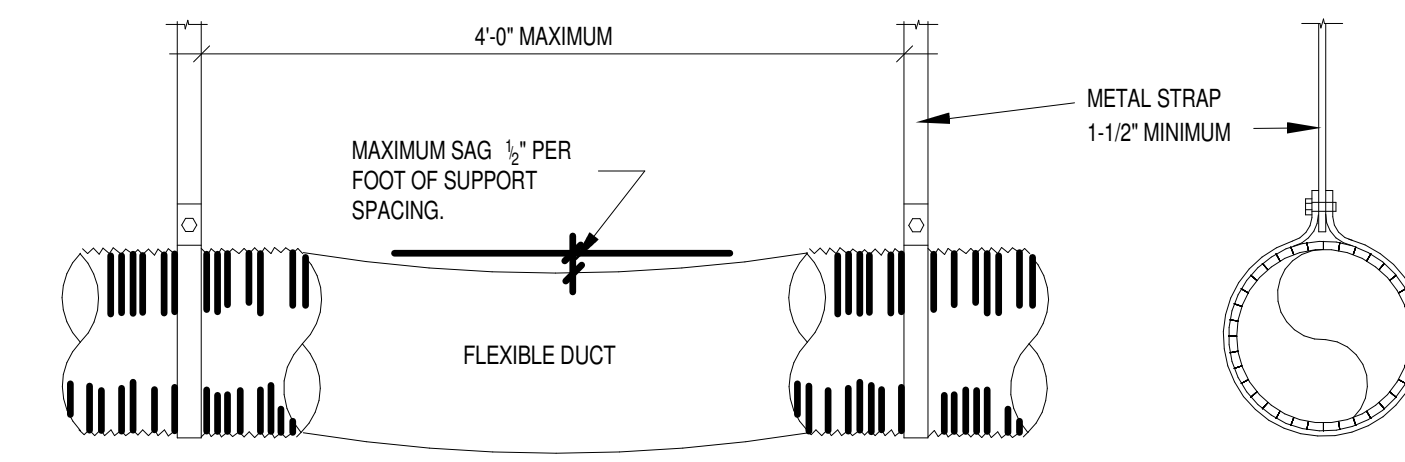
**CONDENSATE DRAIN - DRAW THRU**

SCALE: 12" = 1'-0"



**RIGID DUCT SUPPORT DETAIL**

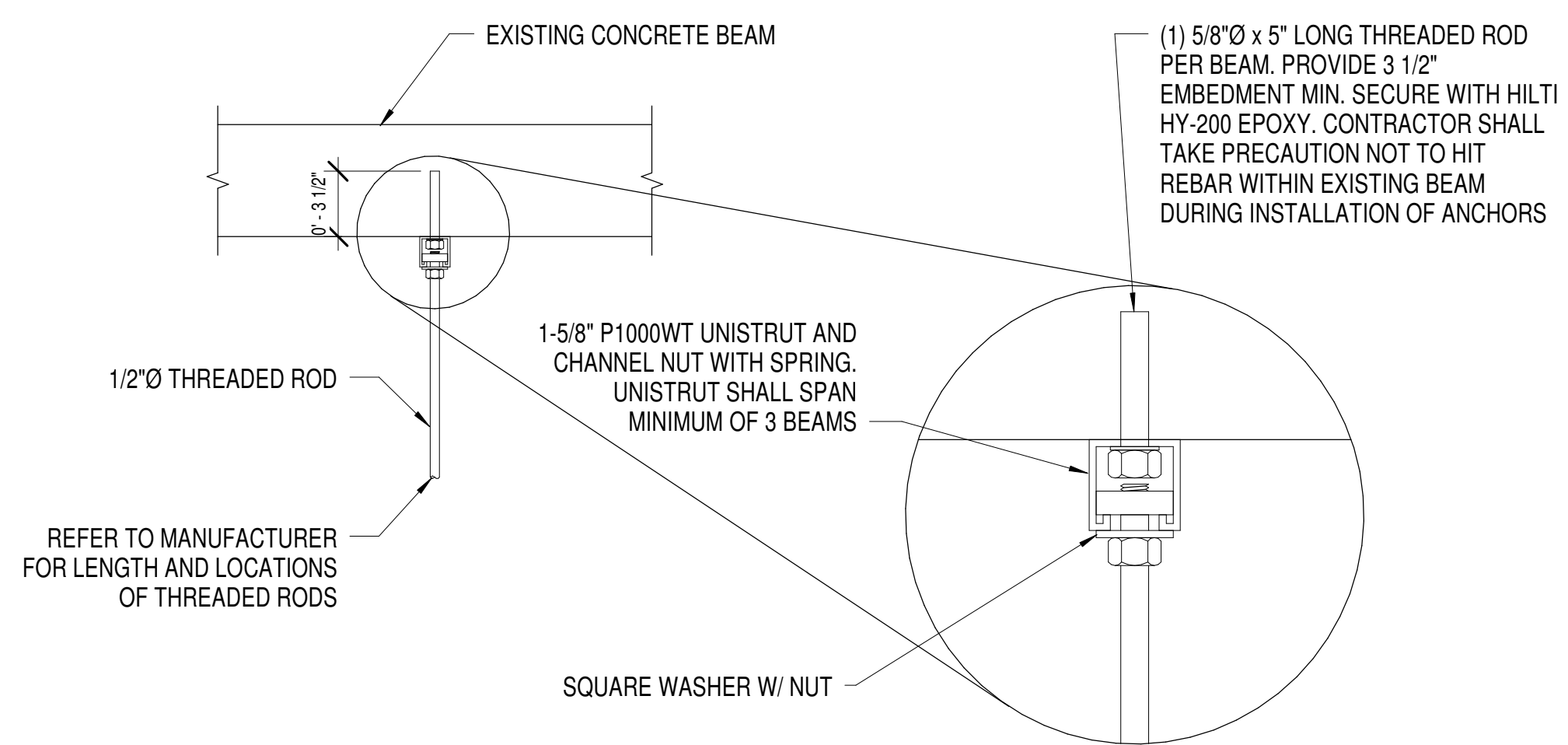
SCALE: 12" = 1'-0"



NOTES:  
1. DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING.  
2. SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.

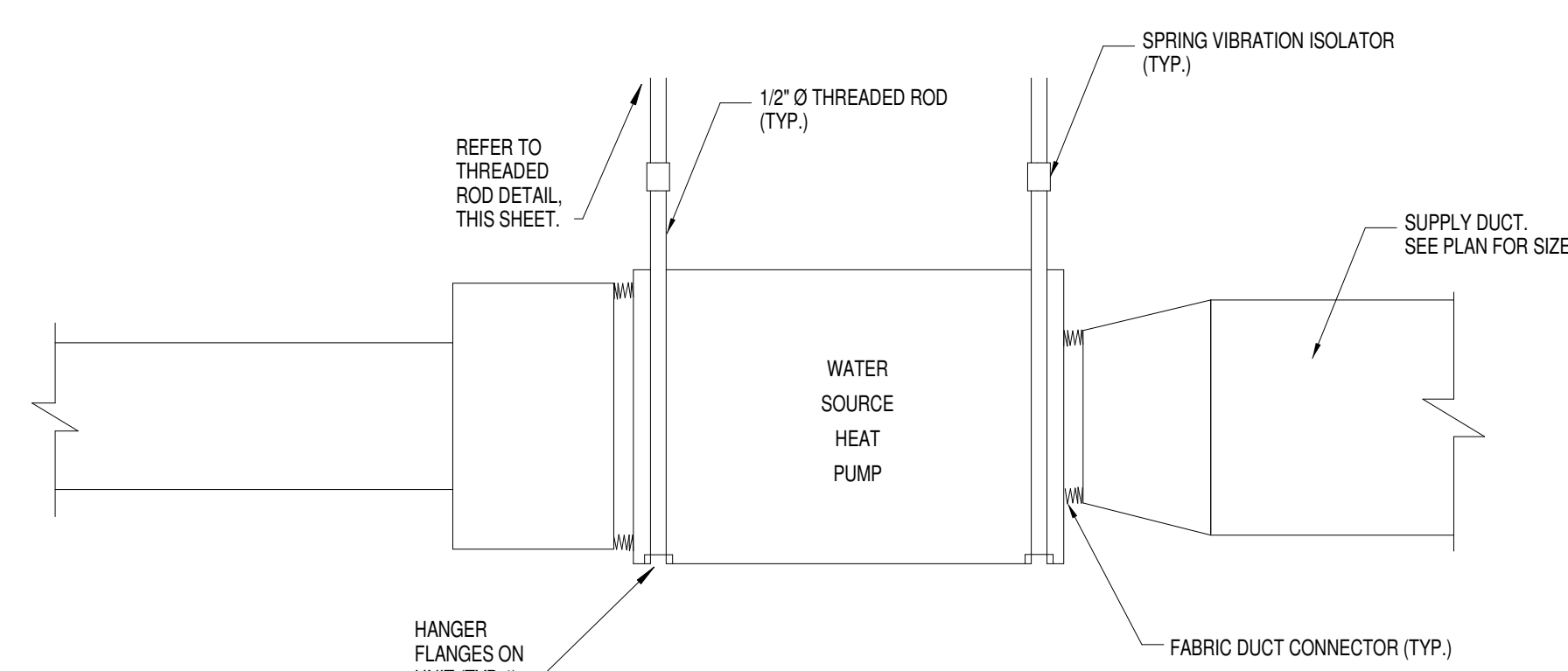
**FLEXIBLE DUCT SUPPORT DETAIL**

SCALE: 12" = 1'-0"



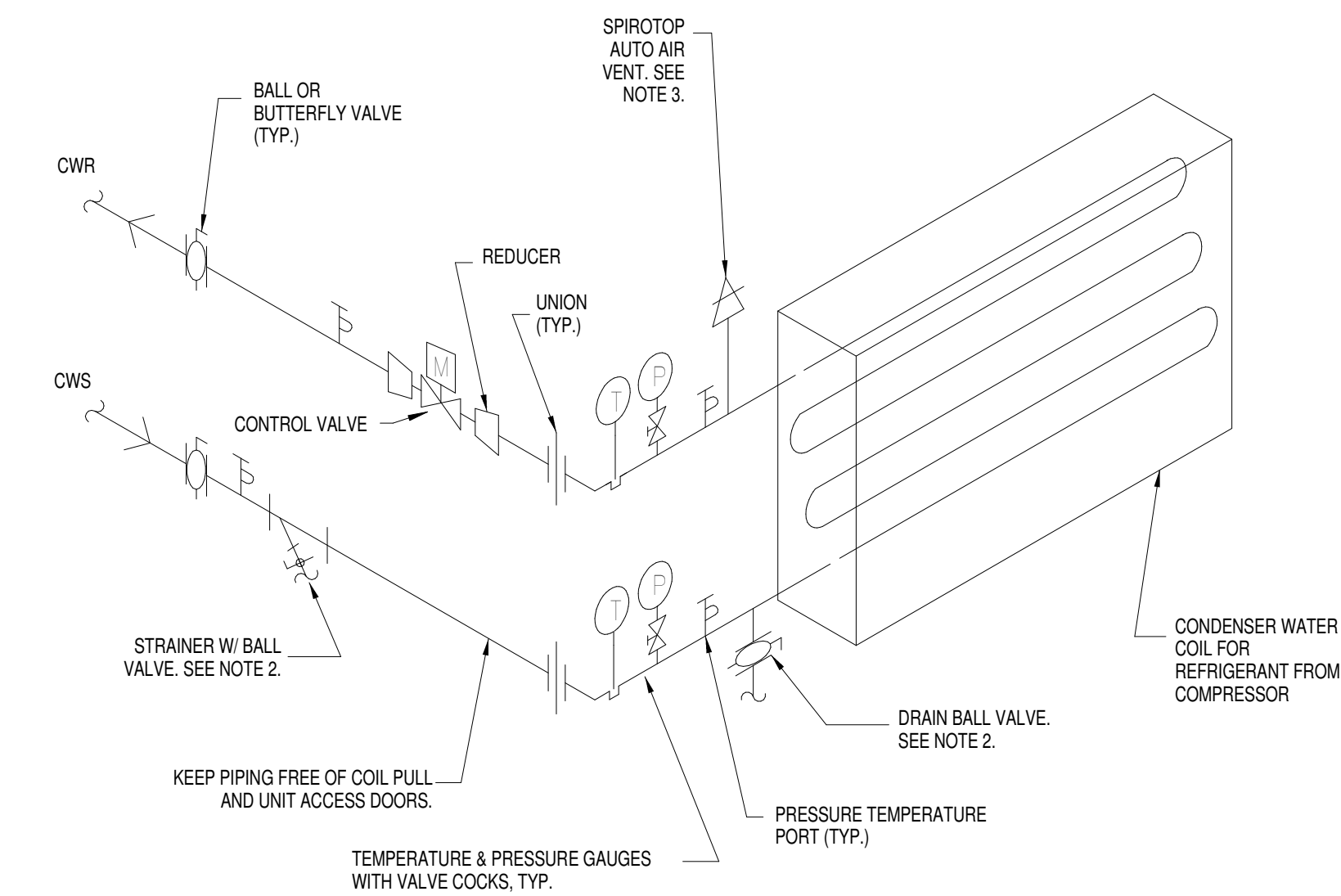
**THREADED ROD ATTACHMENT**

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



**WATER SOURCE HEAT PUMP INSTALLATION DETAIL**

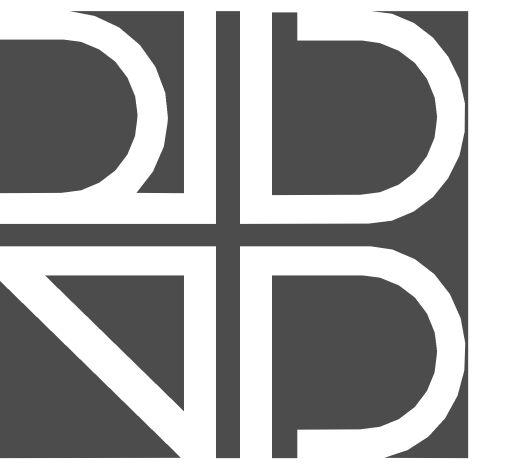
SCALE: 12" = 1'-0"



NOTES:  
1. 2 POSITION 2-WAY CONTROL VALVES TO OPEN WHEN UNIT IS IN OPERATION AND CLOSE WHEN UNIT SHUTS DOWN.  
2. LOCATE AUTO AIR VENT AT HIGH POINT OF PIPING.

**TYPICAL COIL DETAIL**

SCALE: 12" = 1'-0"



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MATTHEW P. MCQUINN  
72488

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DATE	SUBMISSION / REVISION	NO.
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**DETAIL SHEET**

SCALE: AS INDICATED

DRAWN BY: P. ROWAN

CHECK BY: M. MCQUINN

DATE: 09/15/2016

PROJECT NUMBER: 15012-0011

**M-501**



VAV UNIT SCHEDULE																
MARK	AREA SERVED	MANUFACTURER	MODEL NO.	TYPE-SEE NOTE 1	SIZE	PRIMARY AIR CFM					ELECTRIC HEATING COIL			FAN SECTION		
						MAX.	MIN.	HEATING	KW	V/PHW	NO. OF STEPS	FAN CFM	STATIC PRESSURE	MOTOR HP	VOLTAGE	
VAV14-12.1	OFFICES/CORRIDOR	PRICE	SDV	V	6	200	50	100	1.0	120/1	2	---	---	---	---	
VAV14-12.2	BREAK ROOM	PRICE	FDV3012	P	12	1200	100	600	3.0	208/3	3	525	0.25	0.5	120/1	
VAV14-12.3	BREAK OUT 1	PRICE	SDV	V	6	150	50	75	0.5	120/1	2	---	---	---	---	
VAV14-12.4	BREAK OUT 2	PRICE	SDV	V	6	200	50	100	0.5	120/1	2	---	---	---	---	
VAV14-13.1	EXECUTIVE POLICY CONFERENCE RM	TRANE	SDV	V	8	525	125	238	1.0	120/1	2	---	---	---	---	
VAV14-13.2	MAIN OFFICE/TRAFFIC MONITORING AREA/COMMAND AREA/COPY AREA	PRICE	FDV4014	P	14	2800	625	6.0	208/3	3	1200	0.25	0.5	120/1		
VAV14-13.3	IDF ROOM	PRICE	SDV	V	10	1200	0	---	---	120/1	2	---	---	---	---	

**GENERAL NOTES (APPLIES TO ALL UNITS):**

- VAV TYPE: "V"- SINGLE DUCT VARIABLE VOLUME TERMINAL UNIT, "P"- FAN-POWERED PARALELL TERMINAL UNIT.
- PROVIDE A MINIMUM OF (2) STAGES OF ELECTRIC HEAT.
- TIE VAV INTO EXISTING CONTROL SYSTEM.

DUCT CONSTRUCTION SCHEDULE						
SERVICE	SMACNA PRESSURE CLASS	MATERIAL	ALLOWABLE SEAMS	SEALING REQUIREMENTS	INSULATION	NOTES
<b>SUPPLY AIR DUCTS</b>						
DUCTWORK UPSTREAM OF VAV	+ 3"	DOUBLE WALL SHEET METAL: 20 GA. STAINLESS STEEL OUTER 20 GA. GALVANIZED INNER	SNAPLOCK, AND GROOVED, STANDING, SINGLE-CORNER, DOUBLE-CORNER AND PITTSBURGH-LOCK AND ALL OTHER ROLLED MECHANICAL SEAMS	MASTIC WITH EMBEDDED FABRIC OR GASKETS	CONCEALED - 2" THICK EXTERNAL WRAP	(1)(2)
DUCTWORK DOWNSTREAM OF VAV	+ 1"	SINGLE WALL SHEET METAL	SNAPLOCK, AND GROOVED, STANDING, SINGLE-CORNER, DOUBLE-CORNER AND PITTSBURGH-LOCK AND ALL OTHER ROLLED MECHANICAL SEAMS	MASTIC WITH EMBEDDED FABRIC OR GASKETS	CONCEALED - 2" THICK EXTERNAL WRAP	(1)(2)
<b>RETURN AIR DUCTS</b>						
ALL RETURN AIR DUCTWORK	- 2"	SINGLE WALL SHEET METAL	SNAPLOCK, AND GROOVED, STANDING, SINGLE-CORNER, DOUBLE-CORNER AND PITTSBURGH-LOCK AND ALL OTHER ROLLED MECHANICAL SEAMS	MASTIC WITH EMBEDDED FABRIC OR GASKETS	CONCEALED - 2" THICK EXTERNAL WRAP	(1)(2)

- NOTES:  
 (1) ALL DUCTWORK IS TO BE FABRICATED, SUPPORTED AND INSTALLED PER SMACNA STANDARDS AND FLORIDA MECHANICAL CODE REQUIREMENTS.  
 (2) DUCTWORK TO BE G90 GALVANIZED SHEET METAL.

DIFFUSER/RETURN GRILLE SCHEDULE					
MARK / LEGEND	TYPE	MFG.	MODEL	NOTES	
NECK SIZE → 100 S1 → MARK QUANTITY TYP → (2) 200 → CFM	ROUND NECK, SQUARE CEILING SUPPLY DIFFUSER	PRICE	ASCD	2,3,4,5,6	
NECK SIZE → 22x22 R1 → MARK QUANTITY TYP → (2) 200 → CFM	CEILING OR SIDEWALL RETURN AIR GRILLE	PRICE	635	1,2,4,5	

- NOTES:
- PROVIDE WITH OPPOSED BLADE VOLUME DAMPER.
  - PROVIDE 24x24 FULLY LOUVERED FACE LAYIN MODULE WHERE LOCATED IN LAYIN CEILING OR SUSPENDED FROM DUCTWORK.
  - FACTORY INSULATED BACKS ON ALL CEILING DIFFUSERS MUST BE PROVIDED.
  - COORDINATE BORDER TYPES WITH ARCHITECTURAL FLOOR PLAN AND REFLECTED CEILING PLAN.
  - COORDINATE FINISH WITH ARCHITECTURAL.
  - WHERE DIFFUSER BALANCING DAMPER IS INACCESSIBLE, PROVIDE A CONCEALED REMOTE OPERATOR SIMILAR TO YOUNG REGULATOR 270-301 BESIDE DIFFUSER/GRILLE.

PROPOSED WATER SOURCE HEAT PUMP SCHEDULE																																	
MARK	AREA SERVED	UNIT LOCATION	FAN							COOLING COIL							COMPRESSORS			HEATING		ELECTRICAL DATA					DIMENSIONS			WEIGHT (LBS.)	MANUFACTURER	MODEL	REMARKS
			SUPPLY CFM	OUTDOOR CFM	FAN RPM	EPS (in. wc.)	VOLT/PH	HP	FLA	TOTAL CAP. (MBH)	SENSIBLE CAP. (MBH)	EAT (DB/WB)	LAT (DB/WB)	EWT °F	LWT °F	GPM	NO.	RLA EA.	LRA EA.	MBH	VOLTAGE	PHASE	MCA	MOCPP	EER	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)					
AHU-15	BACK UP	MAIN OFFICE CEILING SPACE	6075 CFM	0 CFM	1235	1.3	208/3	5	13.8	120.0	89.6	80/67	55/54	85.0	95.0	30	2	15.6	110.0	160.0	208	3	48.9	60.0	13.3	84.9	36.3	21.6	750	ClimateMaster	TCH120AH	ALL	

- REMARKS:**
- COORDINATE UNIT ORIENTATION AND DUCT CONNECTION LOCATIONS WITH PLANS.
  - COIL SHALL HAVE 14 FINS PER INCH.
  - PROVIDE 2" FILTER RACK WITH MERV 8 THROW-AWAY FILTERS.
  - ACCESS TO PARTS REQUIRING MAINTENANCE AND SERVICING SHALL BE ACCESSIBLE IN ORIENTATION SHOWN ON PLANS.
  - AHHP'S SHALL BE CONTRACTOR FURNISHED.
  - PROVIDE WITH COPPER/COPPER COOLING COIL.
  - PROVIDE WITH HOT-GAS BYPASS.
  - CONTRACTOR SHALL MAINTAIN ALL MANUFACTURER REQUIRED CLEARANCES.
  - PROVIDE ALL CONTROL COMPONENTS NECESSARY TO TIE INTO EXISTING CONTROL SYSTEM AND TO PERFORM REQUIRED CONTROLFUNCTIONS.



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COA No. 7602



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SCHEDULES

SCALE: AS INDICATED

DRAWN BY: P. ROWAN

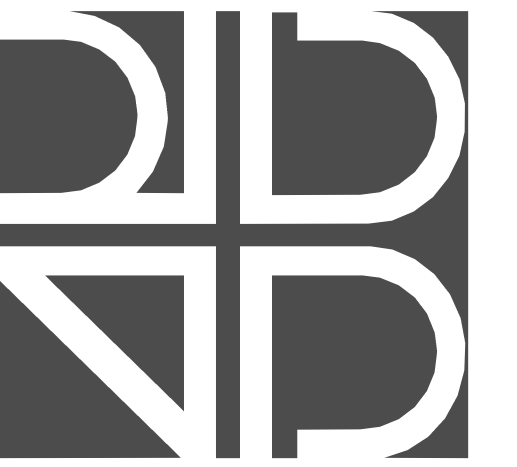
CHECK BY: M. MCQUINN

DATE: 09/15/2016

PROJECT NUMBER: 15012-0011

**M-601**





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DATE SUBMISSION / REVISION NO.

HVAC CONTROLS

SCALE: AS INDICATED

DRAWN BY: M. MCQUINN

CHECK BY: M. MCQUINN

DATE: 09/15/2016

PROJECT NUMBER: 15012-0011

M-701

AHU-15 Control Sequence

Constant Volume, VAV with Bypass

Run Conditions - Scheduled:

- The unit shall run based upon the following:
  - When the EMS calls for AHU-14 supply fan to operate and the status is off or AHU-14 cannot maintain duct static pressure.
  - When AHU-15 is scheduled to operate and the EMS has deenergized AHU-14 (monthly cycling during unoccupied hours)

Freeze Protection:  
The unit shall shut down and generate an alarm upon receiving a freeze status.

High Static Shutdown:  
The unit shall shut down and generate an alarm upon receiving a high static shutdown signal.

Return Air Smoke Detection:  
The unit shall shut down and generate an alarm upon receiving a return air smoke detector status.

Supply Air Smoke Detection:  
The unit shall shut down and generate an alarm upon receiving a supply air smoke detector status.

Supply Fan:  
The supply fan shall run anytime the unit is commanded to run, unless shutdown on safeties. To prevent short cycling, the supply fan shall have a user definable (adj.) minimum runtime.

- Alarms shall be provided as follows:
- Supply Fan Failure: Commanded on, but the status is off.
  - Supply Fan in Hand: Commanded off, but the status is on.
  - Supply Fan Runtime Exceeded: Status runtime exceeds a user definable limit (adj.).

Supply Air Duct Static Pressure Control:  
The controller shall measure duct static pressure and shall modulate the supply fan VFD speed to maintain a duct static pressure setpoint of 1.5in H2O (adj.). The supply fan VFD speed shall not drop below 30% (adj.).

- Alarms shall be provided as follows:
- High Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) greater than setpoint.
  - Low Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) less than setpoint.
  - Supply Fan VFD Fault:

Supply Air Temperature Setpoint - Fixed:  
The controller shall monitor the supply air temperature and shall maintain fixed supply air temperature setpoint as follows:

- Cooling: The setpoint shall be 55°F (adj.).

Cooling Stages:  
The controller shall measure the supply air temperature and stage the cooling to maintain its cooling setpoint. The unit controller shall stage on compressors as required to maintain supply air temperature. When the load only requires one stage of cooling, the controller shall modulate the hot gas bypass valve on that circuit to maintain the supply air temperature. The compressors shall operate for a minimum (adj.) time to prevent short cycling.

The cooling shall be enabled whenever:

- the supply fan status is on.

Bypass Damper:  
The bypass damper shall be 15% open when the supply fan status is off.  
When the supply fan status is on, the bypass damper shall modulate open upon a rise in supply duct static pressure 0.2" w.c. (adj.) above the supply duct static pressure setpoint (adj.). The damper shall modulate closed upon a drop in supply duct static pressure below 0.2" w.c. (adj.) above the duct static pressure setpoint (adj.).

- Alarms shall be provided as follows:
- High Return Air Temp: If the return air temperature is greater than 90°F (adj.).
  - Low Return Air Temp: If the return air temperature is less than 45°F (adj.).

Supply Air Temperature:  
The controller shall monitor the supply air temperature.

- Alarms shall be provided as follows:
- High Supply Air Temp: If the supply air temperature is greater than 120°F (adj.).
  - Low Supply Air Temp: If the supply air temperature is less than 45°F (adj.).

VAV Control Sequence

Parallel Fan-Powered VAV and non-fan-powered VAV

Run Conditions - Scheduled:

The unit shall run according to a user definable time schedule in the following modes:

- Occupied Mode: The unit shall maintain
  - A 74°F (adj.) cooling setpoint.
  - A 70°F (adj.) heating setpoint.
- Unoccupied Mode (night setback): The unit shall maintain
  - A 60°F (adj.) cooling setpoint.
  - A 55°F (adj.) heating setpoint.

- Alarms shall be provided as follows:
- High Zone Temp: If the zone temperature is greater than the cooling setpoint by a user definable amount (adj.).
  - Low Zone Temp: If the zone temperature is less than the heating setpoint by a user definable amount (adj.).

Zone Setpoint Adjust:  
The occupant shall be able to adjust the zone temperature heating and cooling setpoints at the zone sensor.

Zone Unoccupied Override:  
A timed local override control shall allow an occupant to override the schedule and place the unit into an occupied mode for an adjustable period of time. At the expiration of this time, control of the unit shall automatically return to the schedule.

Reversing Variable Volume Terminal Unit - Flow Control:

The unit shall maintain zone setpoints by controlling the airflow through one of the following:

- Occupied:
- When zone temperature is greater than its cooling setpoint, the zone damper shall modulate between the minimum occupied airflow (adj.) and the maximum cooling airflow (adj.) until the zone is satisfied.
  - When the zone temperature is between the cooling setpoint and the heating setpoint, the zone damper shall maintain the minimum required zone ventilation (adj.).
  - When zone temperature is less than its heating setpoint, the controller shall enable the parallel fan and then stage heating to maintain the zone temperature at its heating setpoint.

- Unoccupied:
- When the zone is unoccupied the zone damper shall control to its minimum unoccupied airflow (adj.).
  - When the zone temperature is greater than its cooling setpoint, the zone damper shall modulate between the minimum unoccupied airflow (adj.) and the maximum cooling airflow (adj.) until the zone is satisfied.
  - When zone temperature is less than its unoccupied heating setpoint, the controller shall enable heating to maintain the zone temperature at the setpoint.

Fan Control - Parallel (for fan-powered VAVs):  
The fan shall run whenever the zone controller calls for heat. The fan shall run for a minimum user definable time (adj.). If the AHU is not running, the zone damper will close completely to prevent the unit fan from blowing air back into the supply duct.

Electric Reheating Stages:  
The controller shall measure the zone temperature and stage the reheating to maintain its setpoint.

- The reheating shall be enabled whenever:
- The zone temperature is below setpoint.
  - AND sufficient airflow is provided.

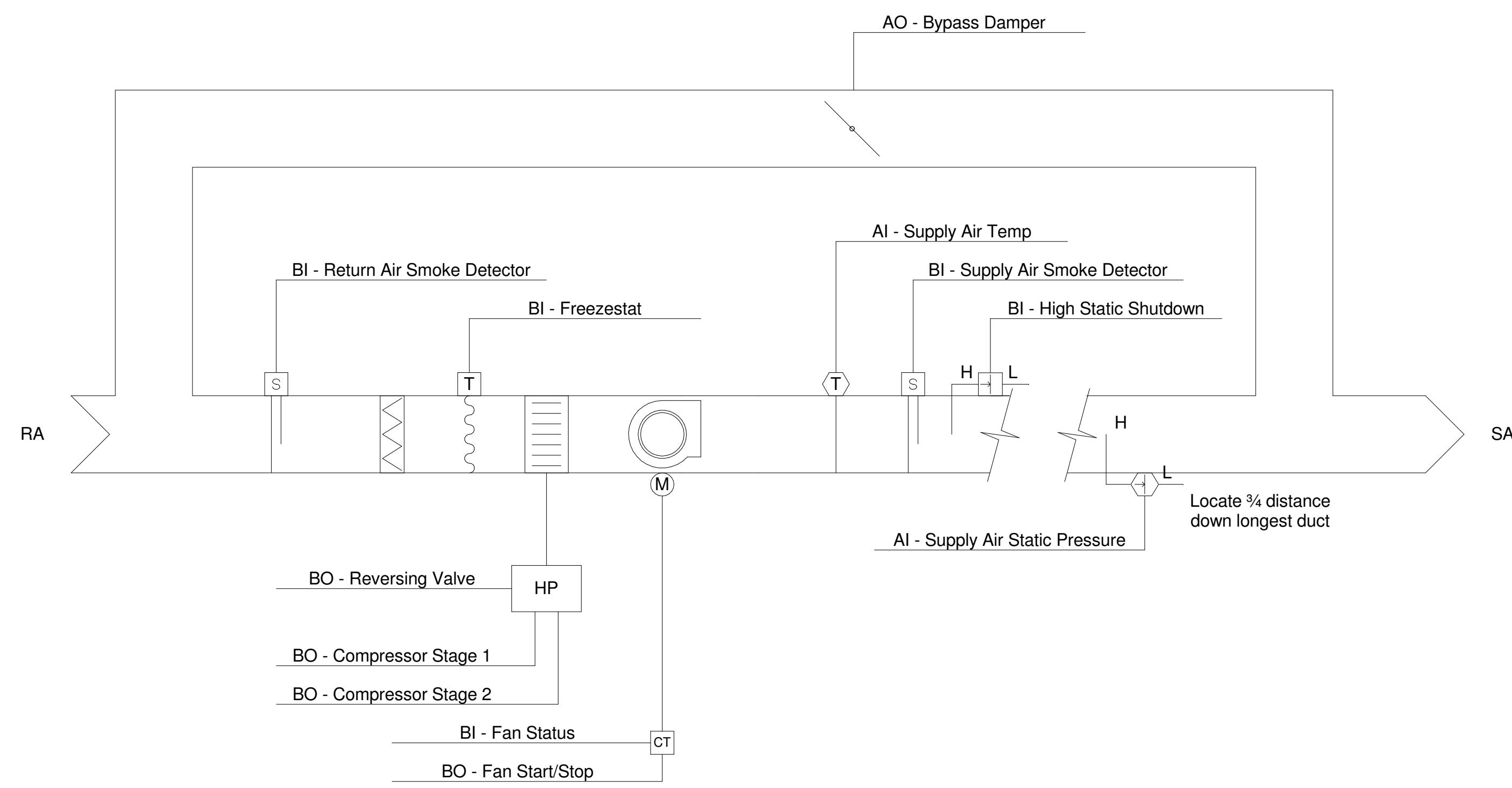
Reheating - High Discharge Air Temperature Limit:  
The controller shall measure the discharge air temperature and limit reheating if the discharge air temperature is more than 15°F (adj.) above the zone temperature.

Discharge Air Temperature:  
The controller shall monitor the discharge air temperature.

- Alarms shall be provided as follows:
- High Discharge Air Temp: If the discharge air temperature is greater than 120°F (adj.).
  - Low Discharge Air Temp: If the discharge air temperature is less than 40°F (adj.).

Fan Status:  
The controller shall monitor the fan status.

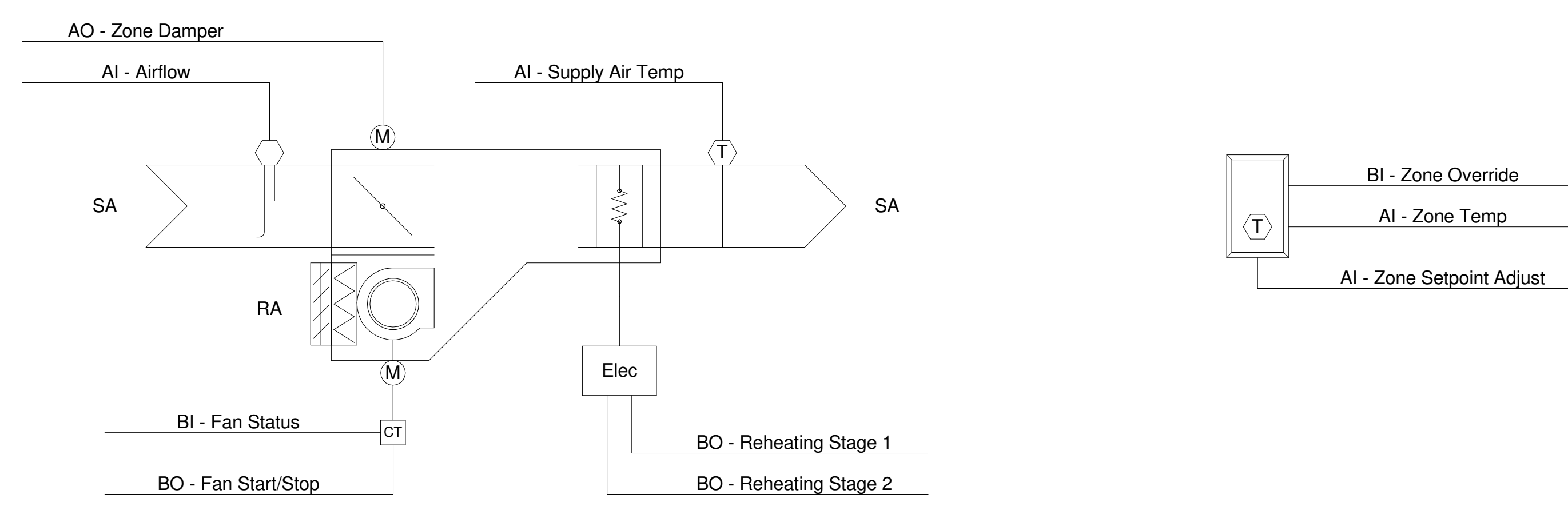
- Alarms shall be provided as follows:
- Fan Failure: Commanded on, but the status is off.
  - Fan in Hand: Commanded off, but the status is on.
  - Fan Runtime Exceeded: Fan status runtime exceeds a user definable limit (adj.).



WSHP Schematic

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

1



VAV Schematic

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

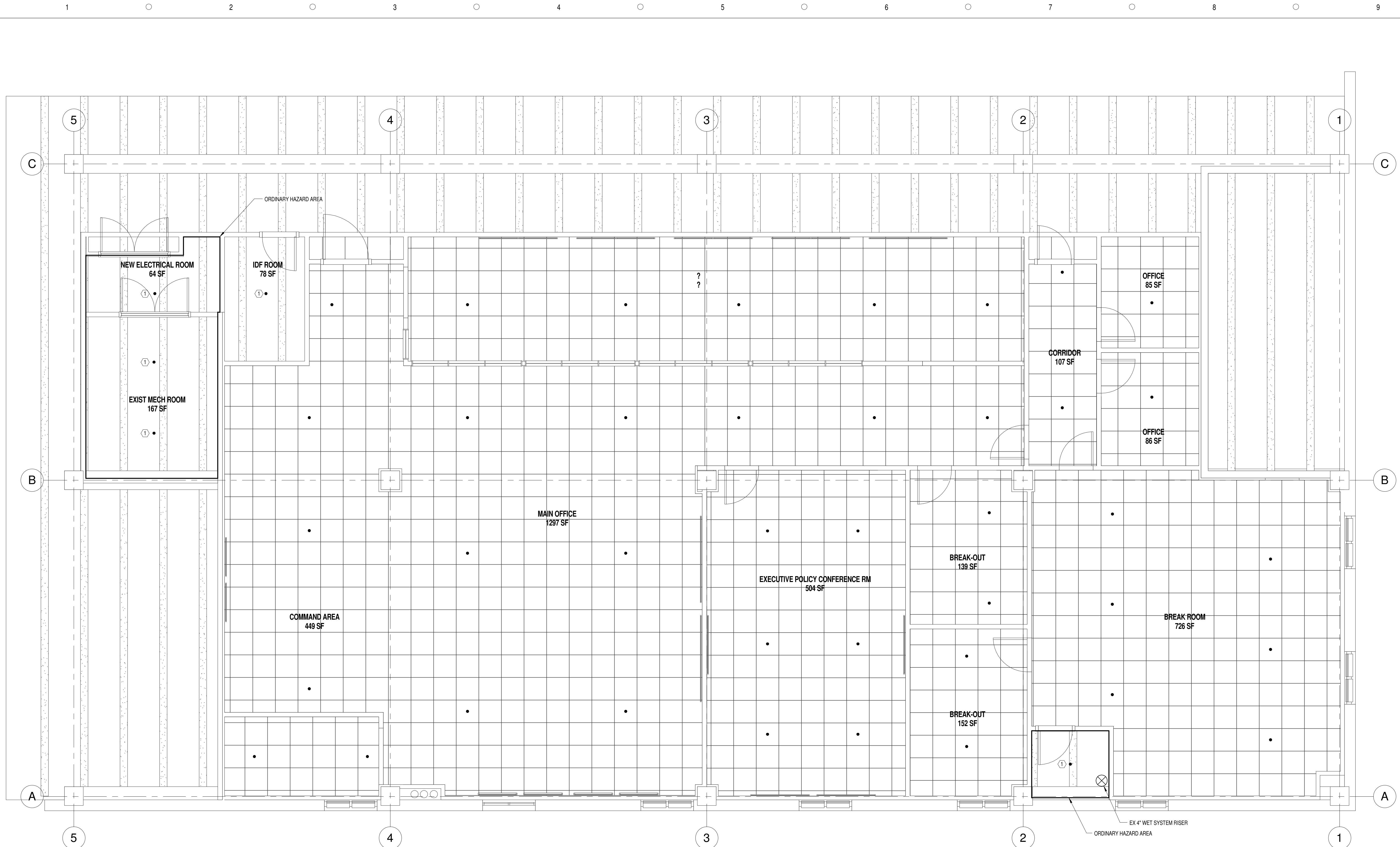
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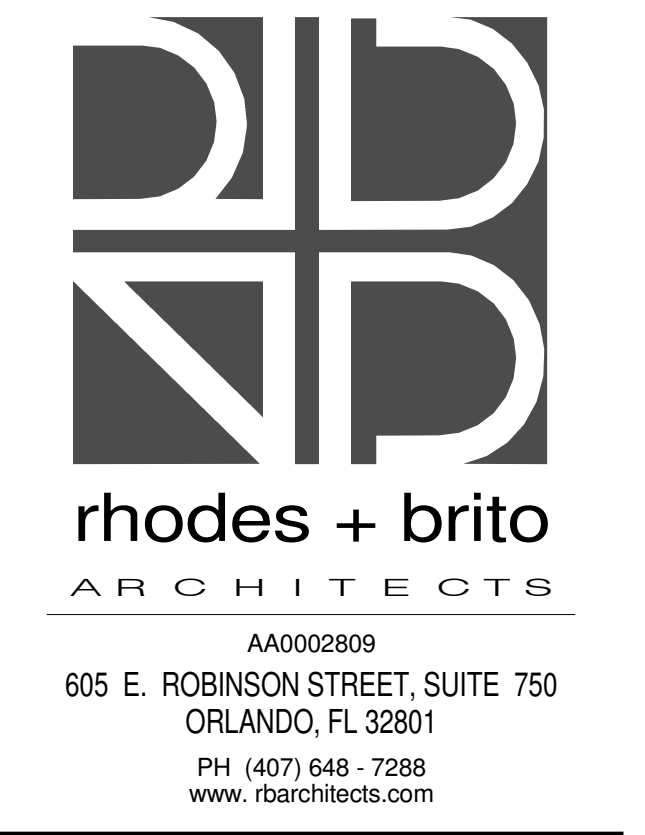
1 2 3 4 5 6 7 8 9 10





**HAZARD CLASSIFICATION & DESIGN CRITERIA NOTES**  
 UNLESS OTHERWISE NOTED, ALL AREAS LIGHT HAZARD:  
 DENSITY SHALL BE 0.10 GPM/SF OVER 1500 SF  
 ORDINARY HAZARD AREAS:  
 DENSITY SHALL BE 0.15 GPM/SF OVER 5500 SF

**SHEET KEY NOTES**  
 ① PROVIDE UPRIGHT PENDENT SPRINKLER PER DETAIL THIS SHEET.



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"NOT FOR CONSTRUCTION"

DATE	SUBMISSION / REVISION	NO.

FIRST FLOOR  
SPRINKLER LAYOUT

SCALE:	AS INDICATED
DRAWN BY:	B. CURRIE
CHECK BY:	B. DONNER
DATE:	09/15/2016
PROJECT NUMBER:	15012-0011

FP-101

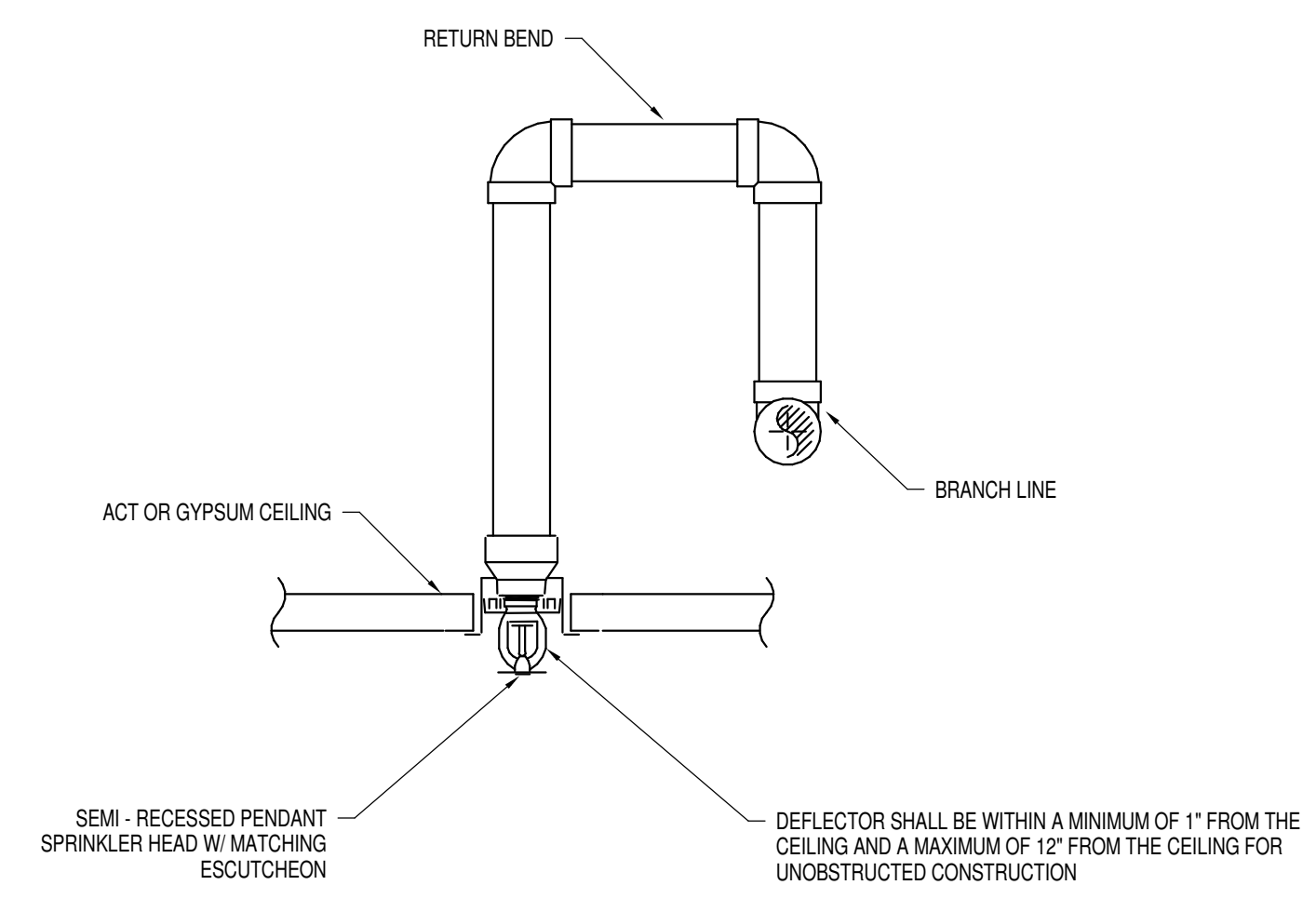
1  
FP-101  
**FIRST FLOOR SPRINKLER LAYOUT**  
SCALE: 1/4" = 1'-0"

- SPRINKLER SYSTEM GENERAL NOTES:**
- SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 AND THE FIRE CODE OF FLORIDA. CONTRACTOR IS RESPONSIBLE FOR FINAL SPRINKLER SYSTEM PIPE LAYOUT AND SIZING, SPRINKLER HYDRAULIC CALCULATIONS AND COORDINATION WITH OTHER TRADES. CONTRACTOR SHALL PROVIDE ALL MATERIALS REQUIRED FOR A FULLY OPERATIONAL SPRINKLER SYSTEM.
  - CONTRACTOR SHALL CONDUCT FLOW TESTING TO OBTAIN BASELINE WATER SUPPLY INFORMATION FOR SYSTEM INSTALLATION DRAWINGS.
  - SPRINKLER SYSTEM HYDRAULIC CALCULATIONS SHALL INCORPORATE A MINIMUM 10% SAFETY FACTOR.
  - ALL SPRINKLERS IN AREAS WITH AGT SHALL BE MOUNTED CENTER OF TILE IN TWO DIRECTIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR CEILING FINISHES/TYPES.
  - SPRINKLERS SHALL BE QUICK RESPONSE TYPE UNLESS OTHERWISE NOTED.
  - ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE APPROPRIATELY FIRE STOPPED AS SPECIFIED AND DETAILED.

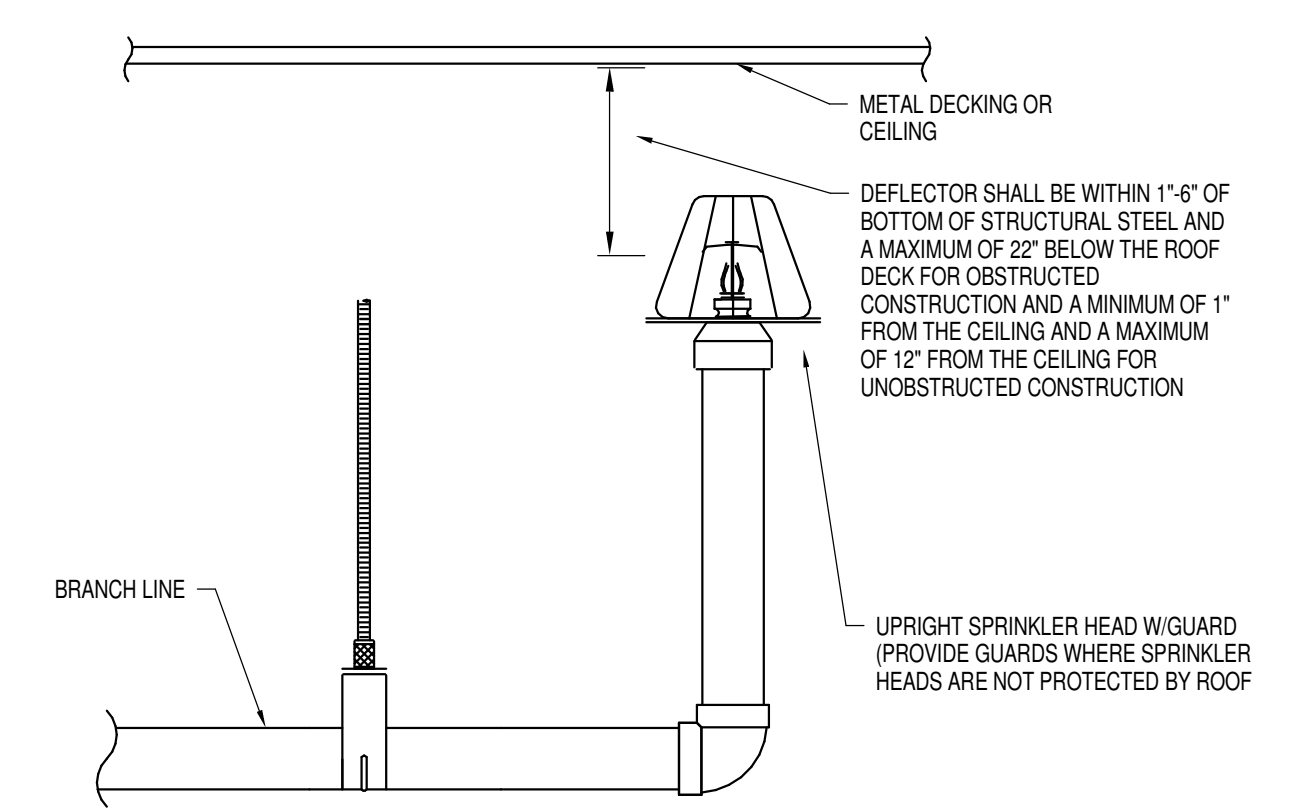
2  
FP-101  
**SPRINKLER SYSTEM GENERAL NOTES**  
SCALE: 1/2" = 1'-0"

- SPRINKLER SYSTEM IMPAIRMENT NOTES:**
- PRIOR TO REMOVING ANY FIRE PROTECTION SYSTEM FROM SERVICE THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE OWNER, LOCAL FIRE DEPARTMENT AND CODE ENFORCEMENT OFFICIAL IN WRITING A MINIMUM OF 48 HOURS BEFORE HAND THAT THE SYSTEM IS TO BE REMOVED FROM SERVICE. THE NOTIFICATION SHALL INCLUDE THE DATE AND TIME THE SYSTEM WILL BE REMOVED FROM SERVICE AND THE PROJECTED DATE AND TIME THE SYSTEM WILL BE RESTORED.
  - DURING ANY FIRE PROTECTION SYSTEM OUTAGES THE BUILDING SHALL BE PROVIDED WITH A FIRE WATCH AS REQUIRED BY THE FIRE CODE OF FLORIDA. THE SOLE RESPONSIBILITY OF THE INDIVIDUAL ASSIGNED TO THE WATCH SHALL BE TO PERFORM CONSTANT PATROLS OF THE IMPAIRED AREA TO KEEP WATCH FOR FIRES. THE FIRE WATCH SHALL BE PROVIDED WITH AN APPROVED MEANS OF NOTIFICATION FOR THE FIRE DEPARTMENT.
  - THE FIRE DEPARTMENT CONNECTION SHALL BE AFFIXED WITH A OUT OF SERVICE SIGN WHENEVER THE SPRINKLER SYSTEM MAIN CONTROL VALVE IS CLOSED. THE SIGN SHALL BE PROVIDED, INSTALLED AND POLICED BY THE FIRE PROTECTION CONTRACTOR.
  - ALL FIRE PROTECTION SYSTEM IMPAIRMENTS SHALL OCCUR IN ACCORDANCE WITH THE FLORIDA FIRE PREVENTION CODE, 5TH EDITION.
  - THE SYSTEM IMPAIRMENT FOR THE RENOVATION SHALL BE CONDUCTED AS A PRE-PLANNED IMPAIRMENT. TO MINIMIZE THE IMPAIRMENT TIME ALL NECESSARY TOOLS AND MATERIALS SHALL BE ASSEMBLED ON SITE PRIOR TO REMOVING THE SYSTEM FROM SERVICE.
  - WITHIN 24 HOURS OF RESTORING ANY FIRE PROTECTION SYSTEM TO SERVICE THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE IN WRITING TO THE OWNER, LOCAL FIRE DEPARTMENT AND CODE ENFORCEMENT OFFICIAL CERTIFICATION THAT THE FOLLOWING HAS BEEN IMPLEMENTED:
    - ALL INSPECTIONS AND TESTS HAVE BEEN COMPLETED TO INSURE THE AFFECTED SYSTEM IS OPERATIONAL.
    - THE IMPAIRMENT TAG HAS BEEN REMOVED.
    - THE OWNER AND/OR OCCUPANT HAVE BEEN INSTRUCTED ON THE OPERATION OF THE SYSTEM.
    - THE THIRD PARTY MONITORING COMPANY HAS BEEN ADVISED THAT THE SYSTEM IS IN SERVICE.

3  
FP-101  
**SPRINKLER SYSTEM IMPAIRMENT NOTES**  
SCALE: 1/2" = 1'-0"



4  
FP-101  
**SEMI RECESSED PENDANT SPRINKLER HEAD DETAIL**  
SCALE: 1/2" = 1'-0"







5  
FP-101  
**UPRIGHT SPRINKLER HEAD DETAIL**  
SCALE: 1/2" = 1'-0"



# GENERAL NOTES

1. ALL PIPE DIMENSIONS ARE NOMINAL.
2. ALL WORK SHALL CONFORM TO ALL APPLICABLE RULES, REGULATIONS, AND LOCAL CODES.
3. CONTRACTOR SHALL FIELD VERIFY ALL PIPE LOCATIONS AND DIMENSIONS INDICATED ON PLANS.
4. CONTRACTOR SHALL PERFORM NECESSARY CUTTING AND PATCHING REQUIRED TO INCORPORATE WORK, UNLESS NOTED OR SHOWN OTHERWISE ON PLANS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL PENETRATIONS RELATED TO PLUMBING SCOPE.
6. ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PRINTED INSTRUCTIONS AND/OR MANUFACTURERS REPRESENTATIVE'S DIRECTIONS.
7. CONTRACTOR TO INSTALL ALL NECESSARY SUPPORTS, HANGERS, BRACES, STRUTS, ETC. WHETHER SHOWN OR NOT, TO PROVIDE A COMPLETE, SAFE AND DURABLE SYSTEM.
8. COORDINATE WORK OF THIS CONTRACT WITH OTHER CONTRACTORS AND EXISTING CONDITIONS.
9. PROVIDE FITTINGS, ELEVATION CHANGES, TRANSITIONS AND OFFSETS REQUIRED, WHETHER SHOWN OR NOT, TO AVOID CONFLICTS WITH WORK OF OTHER TRADES AND EXISTING CONDITIONS.

# SYMBOL LEGEND

-  CONNECT TO EXISTING
-  PIPE DOWN
-  PIPE UP
-  PIPE BREAK

# ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
- BOP BOTTOM OF PIPE
- DCW DOMESTIC COLD WATER
- DHW DOMESTIC HOT WATER
- SAN SANITARY
- V VENT
- W WASTE

PUMP SCHEDULE					
MARK	MANUFACTURER	DESCRIPTION	MODEL	FLA	VOLTS
P-1	LIBERTY PUMPS INC	1/3 HP SUMP PUMP	464L	5	115



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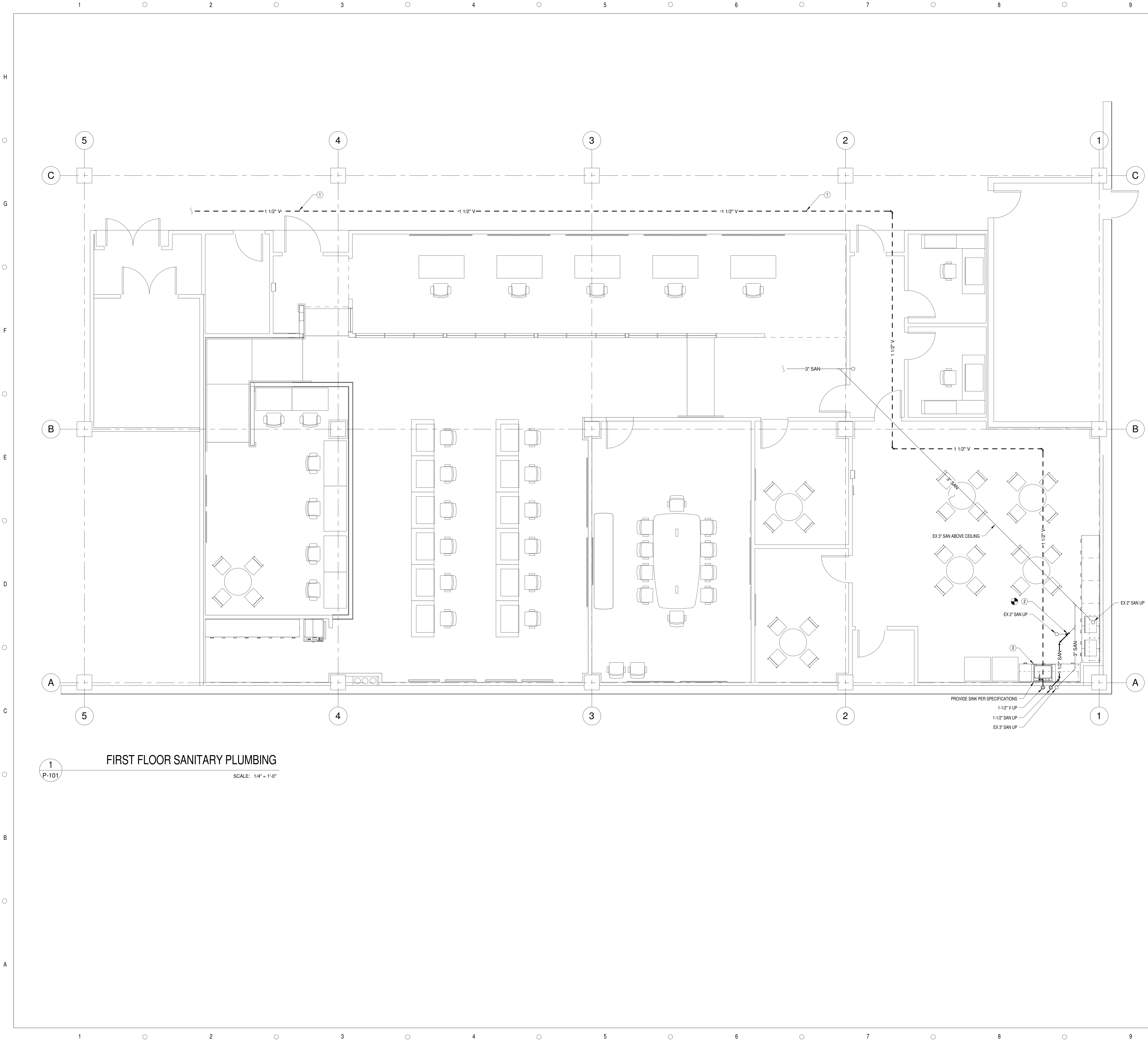
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**GENERAL NOTES,  
SYMBOLS &  
ABBREVIATIONS**

SCALE: AS INDICATED  
DRAWN BY: B. CURRIE  
CHECK BY: M. McQUINN  
DATE: 09/15/2016  
PROJECT NUMBER: 15012-0011

**P-100**





**GENERAL NOTES**

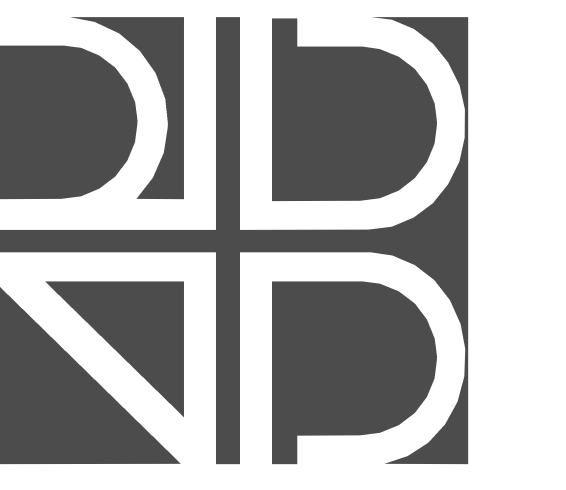
1. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING PLUMBING SYSTEMS PRIOR TO BEGINNING WORK.
2. CONTRACTOR SHALL COORDINATE PIPE ROUTING WITH OTHER BUILDING SYSTEMS AND EXISTING CONDITIONS.

**SHEET KEY NOTES**

- ① ROUTE 2" V ABOVE CEILING TO EXISTING RESTROOM GROUP. FIELD VERIFY AND TIE INTO EXISTING 3" V ABOVE CEILING. COORDINATE WITH PIPING OF OTHER TRADES.
- ② CONNECT TO EXISTING 2" SAN ABOVE CEILING. CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION. CONNECT DOWNSTREAM OF EX 2" SAN UP TO LAVATORY AND PROVIDE WITH INLINE CHECK VALVE.
- ③ PROVIDE UNDERSINK PUMP P-1 AS SCHEDULED ON P-100. INSTALL PER MANUFACTURER'S INSTRUCTIONS. CONNECT TO 1-1/2" VENT AND 1-1/2" SANITARY WITH THREADED CONNECTIONS WITH ADEQUATE ROOM FOR FUTURE MAINTENANCE AND REPLACEMENT.

PROVIDE SINK PER SPECIFICATIONS  
 1-1/2" V UP  
 1-1/2" SAN UP  
 EX 3" SAN UP

**1**  
**P-101**  
**FIRST FLOOR SANITARY PLUMBING**  
 SCALE: 1/4" = 1'-0"



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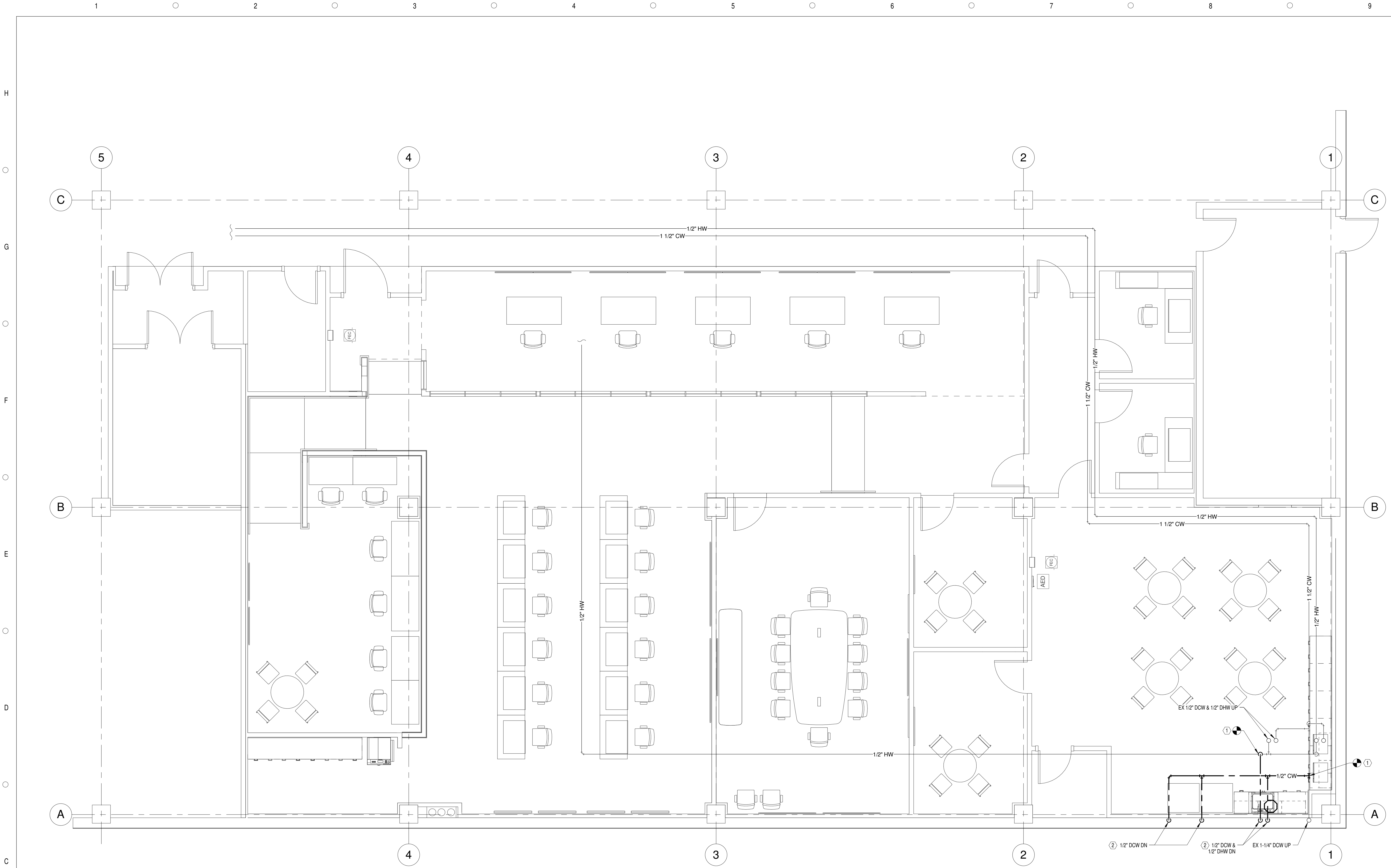
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**FIRST FLOOR  
 SANITARY PLUMBING**

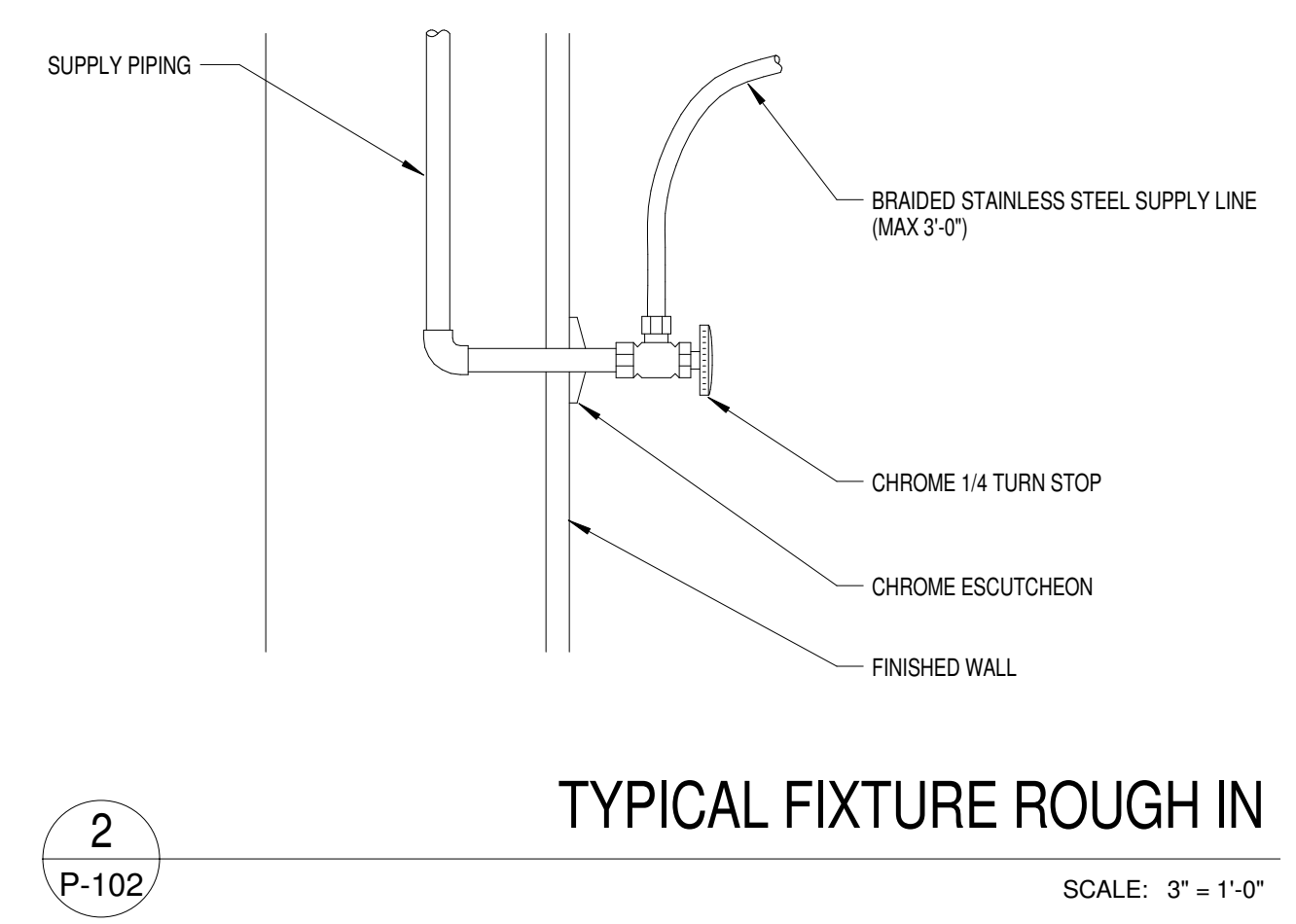
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**P-101**





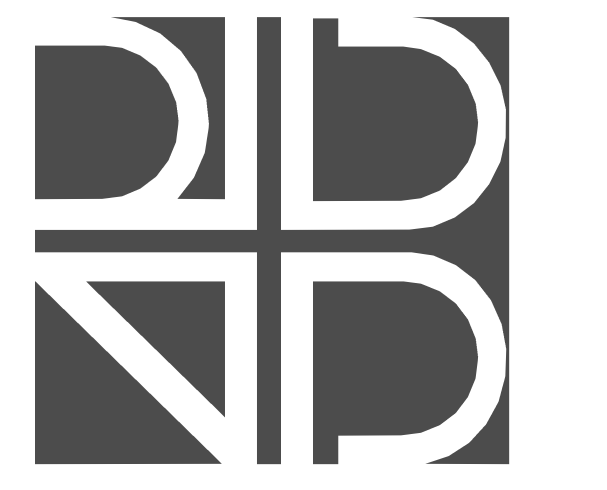
**1**  
P-102  
**FIRST FLOOR DOMESTIC PLUMBING**  
SCALE: 1/4" = 1'-0"



**2**  
P-102  
**TYPICAL FIXTURE ROUGH IN**  
SCALE: 3" = 1'-0"

**GENERAL NOTES**  
 1. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING PLUMBING SYSTEMS PRIOR TO BEGINNING WORK.  
 2. CONTRACTOR SHALL COORDINATE PIPE ROUTING WITH OTHER BUILDING SYSTEMS AND EXISTING CONDITIONS.

**SHEET KEY NOTES**  
 ① CONNECT TO EXISTING DOMESTIC PLUMBING ABOVE CEILING.  
 ② PROVIDE DOMESTIC PLUMBING CONNECTION PER DETAIL ON THIS SHEET. PROVIDE WITH 1/4 TURN CHROME STOPS AND MATCHING ESCUTCHEON. COORDINATE ROUGH-IN LOCATIONS WITH CABINETS AND FIXTURES.



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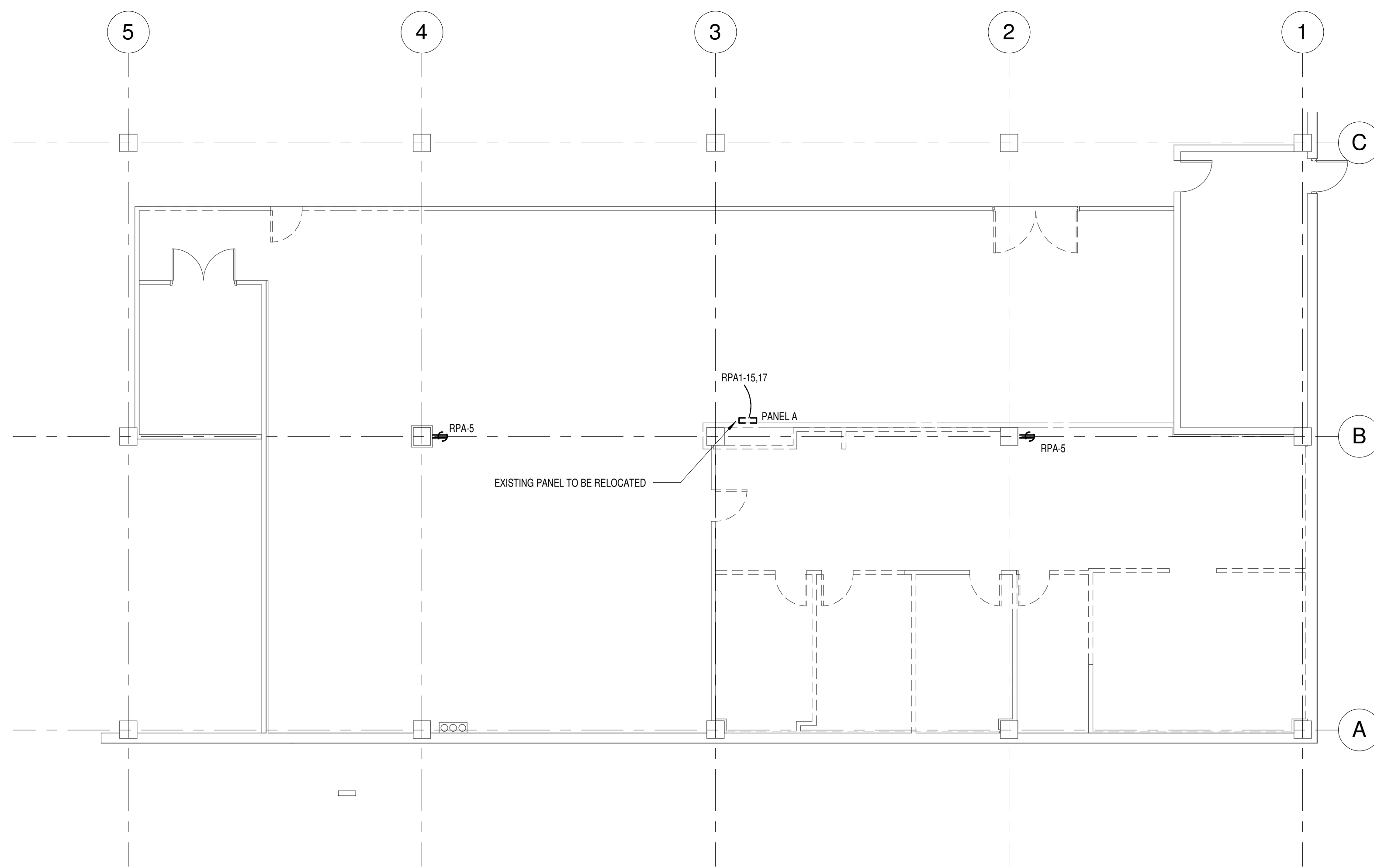
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**FIRST FLOOR  
DOMESTIC PLUMBING**

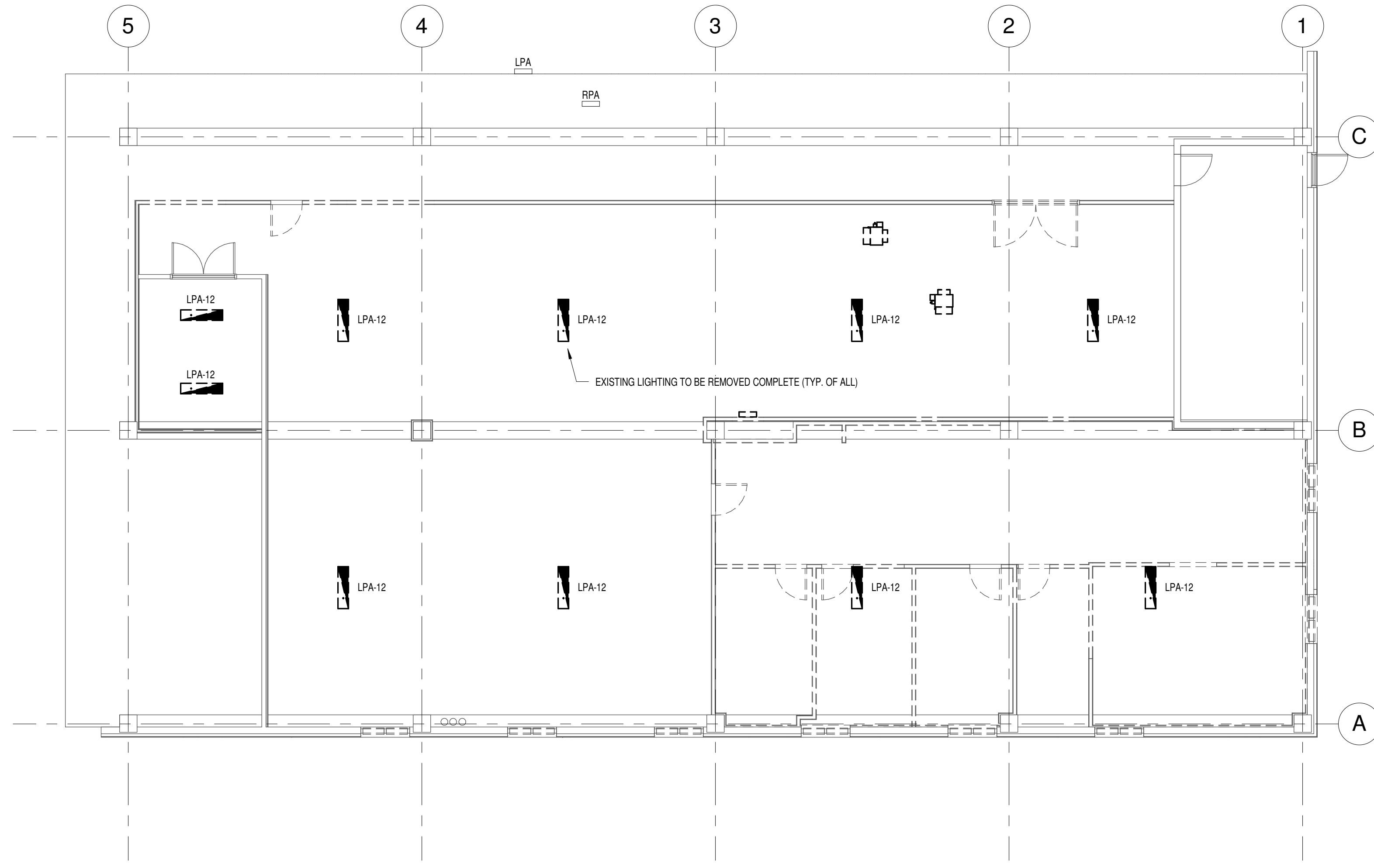
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 PROJECT NUMBER: 15012-0011

**P-102**





**1**  
ED-101  
**FIRST FLOOR POWER DEMOLITION**  
SCALE: 1/8" = 1'-0"



**2**  
ED-101  
**FIRST FLOOR LIGHTING DEMOLITION**  
SCALE: 1/8" = 1'-0"

- DEMOLITION NOTES**
- THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSAL, SO AS TO BECOME FAMILIAR WITH EXISTING WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COORDINATION WITH OTHER TRADES IN EQUIPMENT ROUTING AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER MAY BE NECESSARY AND ALL REQUIRED COORDINATION BETWEEN TRADES SHALL BE CONSIDERED AS PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. FIELD VERIFY DIMENSIONS OF ALL EXISTING CONDITIONS, PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
  - ALL DEVICES AND EQUIPMENT NOT SHOWN AND IN AREAS OUTSIDE OF THE SCOPE OF WORK SHALL REMAIN ACTIVE UNLESS OTHERWISE NOTED. INSTALL TEMPORARY SERVICES AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING DEVICES AND EQUIPMENT THAT REMAIN.
  - ALL EQUIPMENT AND MATERIAL REMOVED AND NOT REUSED SHALL BE TURNED OVER TO THE OWNER OR AT THE OWNERS REQUEST DISPOSED OF BY THE CONTRACTOR.
  - ALL ELECTRICAL DEVICES THAT ARE REMOVED SHALL BE REMOVED AS DIRECTED BY THE OWNER, AND CEILING OR WALL SHALL BE PATCHED OR PAINTED AS DIRECTED BY ARCHITECT.
  - ALL EXISTING ELECTRICAL EQUIPMENT IS NOT SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BID, AND INCLUDE IN HIS BID THE REMOVAL OF ALL EQUIPMENT, CONDUIT, WIRE, ETC. THAT IS NOT BEING REUSED BACK TO ITS SOURCE.
  - ALL CONCRETE, WALL PATCHING, CEILING REPAIR, AND OTHER GENERAL WORK REQUIRED FOR INSTALLING THE ELECTRICAL SYSTEMS AND TO REPAIR TO LIKE CONDITION TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. (COORDINATE WITH GENERAL CONTRACTOR).
  - PROVIDE AND INSTALL ANY ADDITIONAL HANGERS/SUPPORTS REQUIRED TO ACCOMMODATE ANY EQUIPMENT REQUIRED.
  - COORDINATE ALL CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING AND WORK OF ALL OTHER TRADES.
  - REUSE EXISTING RACEWAY AND OUTLETS WITHIN EXISTING WALL PARTITIONS WHERE POSSIBLE. WHERE EXISTING RACEWAY CANNOT BE REUSED, CONTRACTOR TO PROVIDE NEW RACEWAYS EQUIVALENT TO THE DESIGN INTENT. FINAL APPROVAL TO BE MADE BY THE ARCHITECT, ENGINEER, OR OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.
- EXISTING CONDITIONS GENERAL NOTES**
- VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTER WILL NOT BE RECOGNIZED.
  - UTILITIES AND SERVICES INDICATED ARE TAKEN FROM FIELD INVESTIGATION. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND OR BURIAL DEPTHS, AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER, MAY BE NECESSARY. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSION OF ALL SITE UTILITIES, ETC. PRIOR TO BID.
  - ELECTRICAL CONTRACTOR SHALL TRACE LIGHTING AND POWER BRANCH CIRCUITS TO IDENTIFY CIRCUITS SERVING AREA WITHIN SCOPE OF WORK. PROVIDE UPDATED TYPENWRITTEN PANEL SCHEDULES AT COMPLETION OF WORK.
  - REMOVE EXISTING POWER, LIGHTING, SYSTEMS, MATERIAL, AND EQUIPMENT WHICH ARE MADE OBSOLETE OR WHICH INTERFERE WITH THE CONSTRUCTION OF THE PROJECT.
  - REINSTALL ANY SUCH POWER, LIGHTING, SYSTEMS, MATERIALS AND EQUIPMENT WHICH ARE REQUIRED TO REMAIN ACTIVE FOR THE FACILITY TO BE FULLY FUNCTIONAL.
  - EXISTING OUTLET BOXES AND CONDUIT WHICH ARE LOCATED PROPERLY FOR NEW WORK MAY BE REUSED FOR NEW DEVICES AND WIRE.
  - ALL CONDUIT AND WIRE REMOVED SHALL BE TAKEN BACK TO THE SOURCE OF SUPPLY UNLESS OTHERWISE NOTED.
  - INSTALL A BLANK COVER PLATE WHERE REQUIRED.
  - ALL UNUSED RACEWAYS WITHIN ACCESSIBLE SPACES SHALL BE COMPLETELY REMOVED. REMOVE ALSO ASSOCIATED CONDUCTORS, JUNCTION BOXES, FASTENERS AND SUPPORTS.

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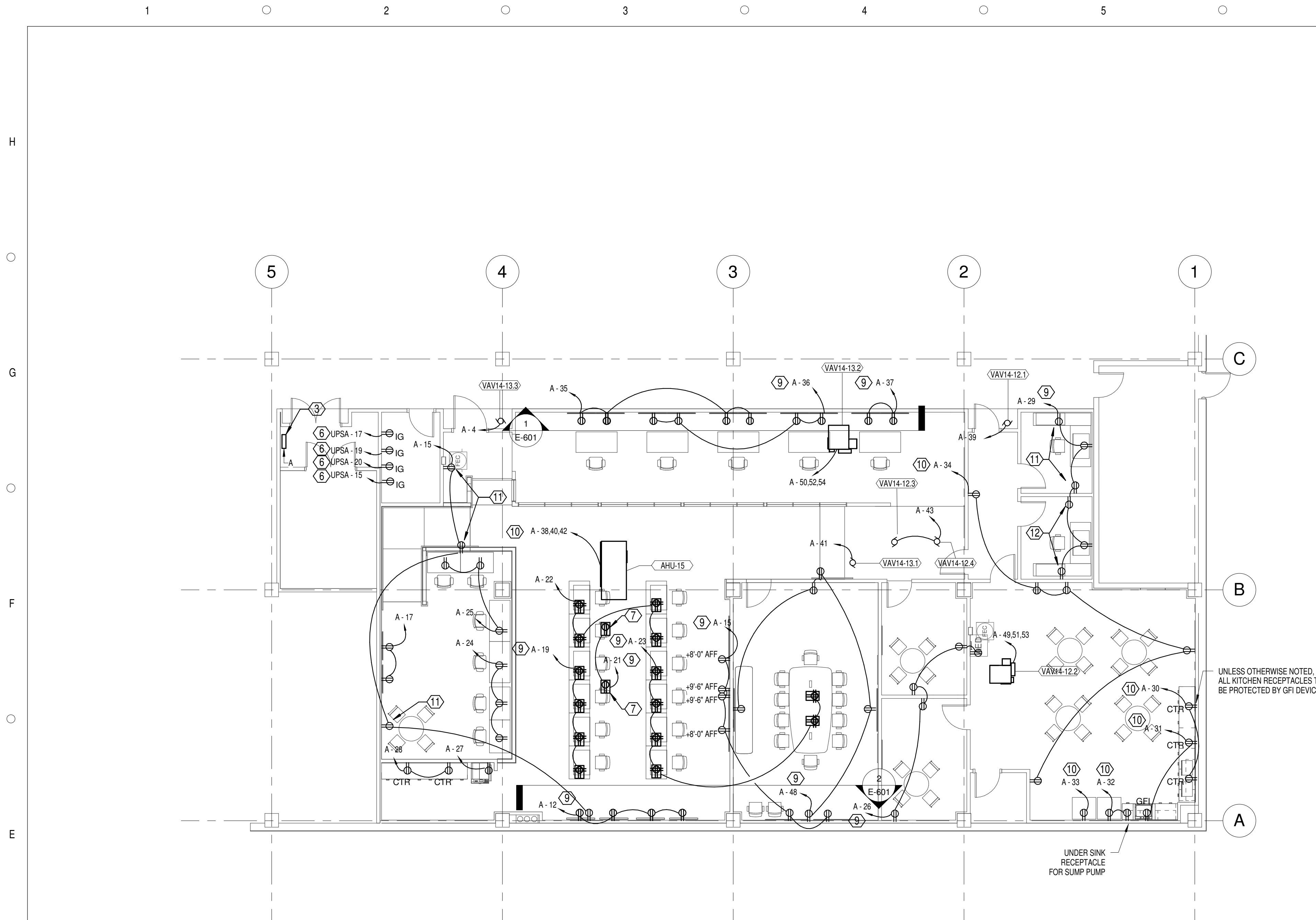
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**FIRST FLOOR  
ELECTRICAL  
DEMOLITION PLAN**

SCALE:	AS INDICATED
DRAWN BY:	T. COMER
CHECK BY:	A. JAMES
DATE:	09/15/2016
PROJECT NUMBER:	15012-0011

**ED-101**

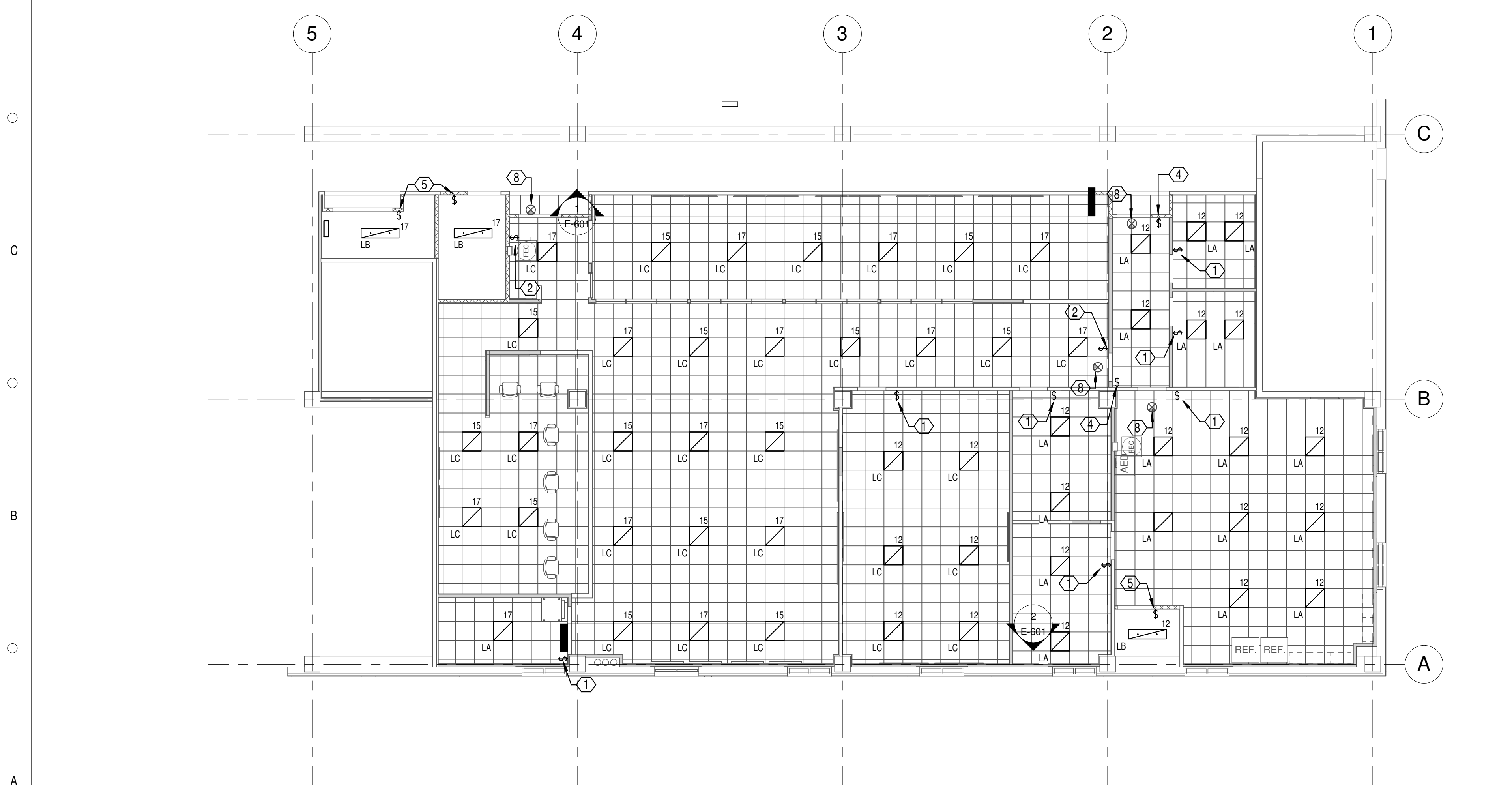




FIRST FLOOR POWER PLAN

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

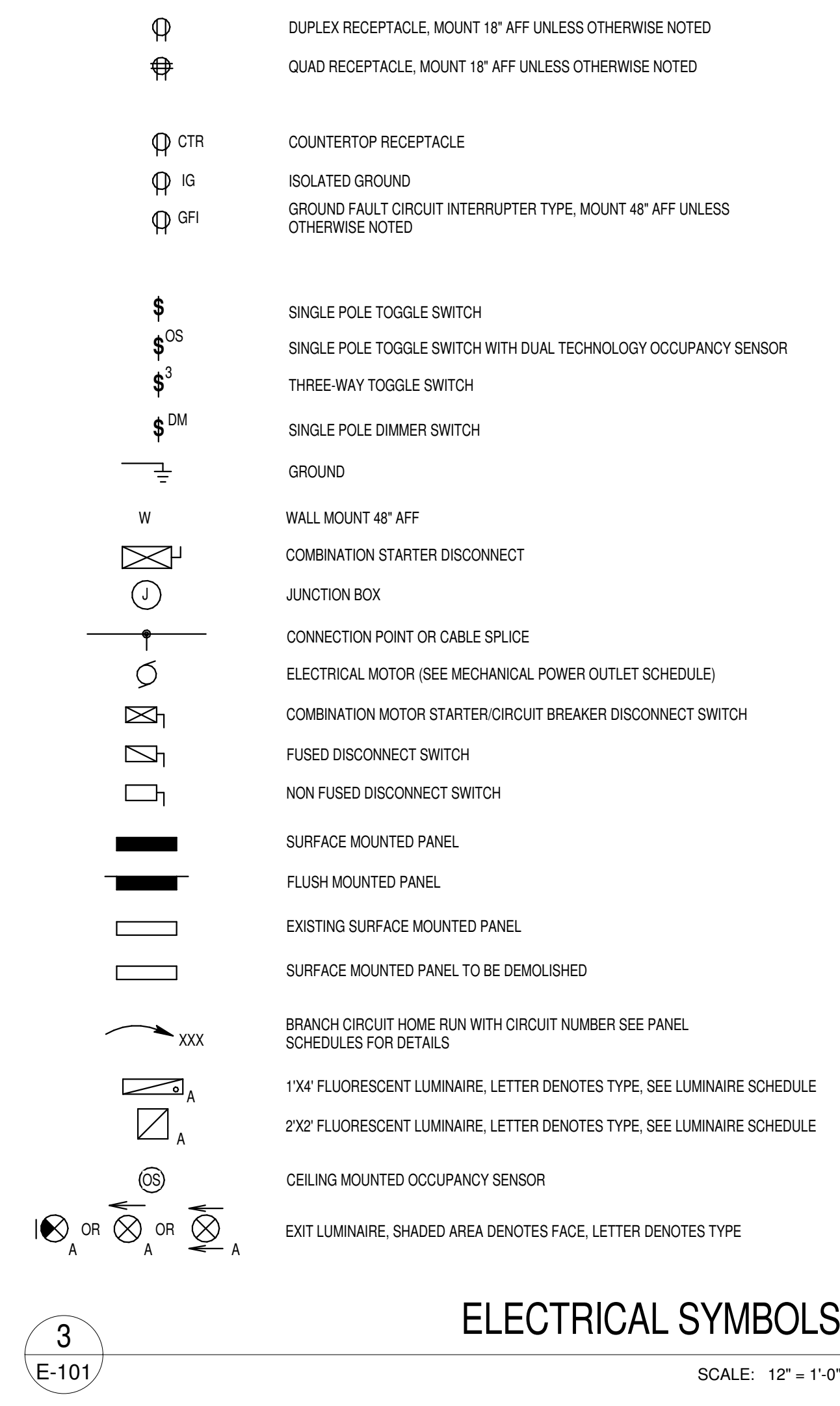
1  
E-101



FIRST FLOOR LIGHTING PLAN

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

2  
E-101



ELECTRICAL SYMBOLS

SCALE: 12" = 1'-0"

3  
E-101

AC	ABOVE COUNTER
ACCU	AIR COOLED CONDENSING UNIT
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AU	AT UNIT
BFG	BELOW FINISHED GRADE
COP	CLOCK DISTRIBUTION PANEL
CH	CHILLER
CLL	CONTRACT LIMIT LINE
CT	CURRENT TRANSFORMER
CTB	CLOCK TERMINAL BOX
DP	DISTRIBUTION PANEL
DPM	DISTRIBUTION PANEL MAIN
EF	EXHAUST FAN
EMT	ELECTRIC METALLIC TUBING
EP	EXPLOSION PROOF
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FAN COIL
FD/SD	FIRE DAMPER/SMOKE DAMPER
GF	GROUND FAULT INTERRUPTER TYPE
GND	GROUND
JB	JUNCTION BOX
KA	KILO AMP
KV	KILO VOLT
KVA	KILO VOLT AMP
KWHD	KILO WATT-HOUR DEMAND METER
LP	LIGHTING PANEL
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NO	NORMALLY OPEN
PB	PULL BOX
PF	POWER FEEDER
PT	POTENTIAL TRANSFORMER
PLV	PANEL UNIT VENTILATOR
REM	REMARKS
RGS	RIGID GALVANIZED STEEL CONDUIT
UV	UNIT VENTILATOR
VFD	VARIABLE FREQUENCY DRIVE
WP	WATER PROOF

ELECTRICAL ABBREVIATIONS

SCALE: 12" = 1'-0"

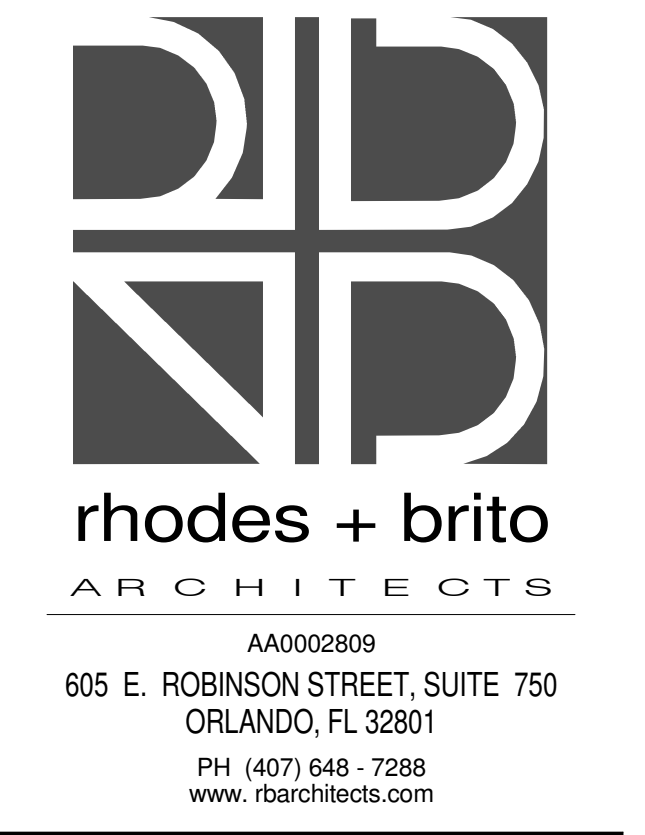
4  
E-101

REFERENCED NOTES

- ① PROVIDE NEW 0-10V STEP DIMMER OCCUPANCY SWITCH FOR NEW LIGHTING SWITCH LEGS. DESIGN SPEC TO BE LUTRON - MS-2101, OR APPROVED EQUAL.
- ② PROVIDE NEW 0-10V DIMMER WALL STATION TO CONTROL ROOM LIGHTING. LIGHTING CONTROL TO BE TIED INTO NEW CEILING MOUNTED OCCUPANCY SENSORS TO WORK IN CONJUNCTION WITH WALL STATION.
- ③ PROVIDE NEW (4#10), (1) #4G IN 2" CONDUIT TO RELOCATED PANEL LOCATION.
- ④ PROVIDE NEW 3-WAY OCCUPANCY SWITCH FOR NEW LIGHTING SWITCH LEGS. DESIGN SPEC TO BE LUTRON - MS-OPS3H-WH, OR APPROVED EQUAL.
- ⑤ PROVIDE NEW OCCUPANCY SWITCH FOR NEW LIGHTING SWITCH LEGS. DESIGN SPEC TO BE LUTRON - MS-OPS2H-WH, OR APPROVED EQUAL.
- ⑥ PROVIDE NEW BRANCH CIRCUIT TO EXISTING BUILDING CENTRAL UPS WITH (2#10), (1) #10G IN 3/4" CONDUIT WITH OWNERS FOR EXACT LOCATION AND UTILIZE EXISTING SPARE CIRCUITS IN UPS.
- ⑦ CEILING RECEPTACLE FOR PROJECTORS.
- ⑧ PROVIDE NEW EXIT SIGNS WITH BATTERY BACKUP. DESIGN SPEC TO BE LITHONIA LOC-W-1-R-ELN OR APPROVED EQUAL. CONNECT TO NEAREST LIGHTING CIRCUIT WITH (2) #12, (1) #12G IN 3/4" CONDUIT WIRED AHEAD OF ANY SWITCHING.
- ⑨ PROVIDE (2) #10, (1) #10G IN 3/4" CONDUIT BACK TO INDICATED BRANCH PANEL.
- ⑩ PROVIDE (2) #8, (1) #8G IN 3/4" CONDUIT BACK TO INDICATED BRANCH PANEL.
- ⑪ PROVIDE NEW AUTOMATICALLY CONTROLLED RECEPTACLE PER ASHRAE 90.1. DESIGN SPEC TO BE HUBBELL BR152CWH WITH CU3000 CONTROL UNIT. REFER TO MANUFACTURER WIRING DIAGRAM TO TIE IN TO EXISTING ROOM OCCUPANCY SENSOR.

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE 2011 NATIONAL ELECTRICAL CODE AS WELL AS ALL APPLICABLE STATE AND LOCAL ELECTRICAL CODES.
2. ELECTRICAL CHARACTERISTICS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER.
3. ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVE'S DIRECTIONS.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND DIMENSIONS SHOWN ON DRAWINGS.
5. ALL AREAS DISTURBED BY WORK SHALL BE RESTORED TO A CONDITION EQUAL TO ORIGINAL OR AS DETERMINED BY THE OWNER.
6. NEW FLUORESCENT LAMPS SHALL MATCH EXISTING IN COLOR AND TYPE.
7. EXIT SIGNS TO BE WIRED TO NEAREST EMERGENCY LIGHTING CIRCUIT, WITH AN UNSWITCHED PHASE CONDUCTOR.
8. EMERGENCY LIGHTING TO BE WIRED TO SEPARATE SWITCH LEG WITH WATTSTOPPER RELAY TO SENSE POWER LOSS.
9. COORDINATE WITH OWNER FOR METERING OF CIRCUITS TO TENANT SPACE.
10. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL EQUIPMENT WITH OTHER CONTRACTORS.
11. THE CONTRACTOR SHALL PROVIDE RACEWAYS, WIRING, AND CONNECTIONS FOR ALL CONTROL CIRCUITS AND INTERLOCK.
12. ALL ELECTRICAL CONDUIT AND CONDUCTORS DISCONNECTED AND NOT TO BE REUSED SHALL BE REMOVED.
13. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE STARTING WORK. IF ONLY A PORTION OF AN EXISTING CIRCUIT IS BEING REMOVED FOR DEMOLITION, CONTINUITY SHALL BE MAINTAINED TO THE REST OF THE REMAINING CIRCUIT.
14. ALL BRANCH CIRCUITS SHALL CONSIST OF 2 #12 AWG CONDUCTORS PLUS 1 #12 AWG GROUND, UNLESS OTHERWISE SHOWN.
15. ALL RACEWAYS SHALL BE RUN IN NEAT AND WORKMAN-LIKE MANNER AND SHALL BE PROPERLY SUPPORTED.
16. ALL RACEWAY RUNS, PRIOR TO TERMINATION AT BRANCH PANEL, SHALL BE CAPED DURING THE COURSE OF CONSTRUCTION BUT NOT UNTIL WIRES ARE PULLED IN AND COVERS ARE IN PLACE. NO CONDUCTORS SHALL BE PULLED INTO RACEWAYS UNTIL CONSTRUCTION WORK, WHICH MIGHT DAMAGE THE RACEWAYS, HAS BEEN COMPLETED.
17. CONTRACTOR TO PROVIDE NYLON PULL CORD IN ALL EMPT RACEWAYS.
18. ALL CUTTING AND PATCHING AS A RESULT OF NEW CONSTRUCTION OR DEMOLITION SHALL BE PERFORMED IN A WORKMANLIKE MANNER, AND SHALL MATCH IN COLOR, SHAPE, SIZE AND TEXTURE ADJACENT TO AND/OR CONTIGUOUS WITH FINISHED SURFACES.
19. THE ELECTRICAL DRAWINGS ARE SCHEMATIC ONLY. COORDINATE EXACT LOCATIONS AND DETAILS OF ELECTRICAL EQUIPMENT, CONDUITS, ETC. WITH THE OWNER.
20. CONSTRUCTION DOCUMENTS REPRESENT THE CONSULTANT'S DESIGN INTENT. IT IS NOT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO IDENTIFY EACH AND EVERY DETAIL OF THE ELECTRICAL CONSTRUCTION. PROVIDE ALL NECESSARY EQUIPMENT AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
21. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, LOCATIONS, AND DIMENSIONS SHOWN ON DRAWINGS AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.
22. THE ENGINEER HAS MADE EVERY EFFORT TO PROPERLY ADDRESS ALL RELATED TRADES AND IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL CONTRACTOR (AS PART OF THEIR BASE BID) TO THOROUGHLY REVIEW ALL DESIGN DOCUMENTS BEFORE WORK IS TO BEGIN. IN CASE OF A CONFLICT, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY TO COORDINATE ANY DISCREPANCY.
23. ALL ELEVATIONS NOTED ON THE CONTRACT DRAWING ARE RELATIVE TO THE FINISHED FLOOR UNLESS NOTED OTHERWISE.
24. CONTRACTOR SHALL REPAIR AND REFINISH ALL CONTRACTOR RELATED DAMAGES AND RELATED AREAS AFFECTED BY RENOVATION WORK BACK TO THEIR ORIGINAL CONDITION AS NEW AND IN AN ACCEPTABLE MANNER TO OWNER/ ARCHITECT, WITH NO ADDITIONAL COST TO OWNER.
25. IF ASBESTOS IS ENCOUNTERED DURING CONTRACTED WORK, STOP WORK IN THAT AREA AND IMMEDIATELY CONTACT THE OWNER.
26. ALL PROJECT SUBMITTALS SHALL BE SUBMITTED AND RETURNED MARKED REVIEWED OR REVIEWED AS NOTED PRIOR TO ORDERING/ INSTALLATION OF ANY PRODUCT / SERVICE.
27. CONTRACTOR SHALL ASSUME THAT ALL ELECTRICAL EQUIPMENT, RACEWAYS, CONDUCTORS, ETC. SHOWN ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED AS 'EXISTING'.
28. CONTRACTOR SHALL REVIEW AND COORDINATE THE ELECTRICAL CONSTRUCTION WITH OTHER TRADES, EQUIPMENT SUPPLIERS AND THE OWNER.
29. ALL WIRE SHALL BE STRANDED COPPER CONDUCTORS, 600V RATED, TYPE THHN/THWN, UNLESS OTHERWISE NOTED. ALL INTERIOR CONDUITS SHALL BE ELECTRICAL METALLIC TUBING (EMT), RIGID METAL CONDUIT (RMC) OR FLEXIBLE METAL CONDUIT (FMC), UNLESS OTHERWISE NOTED.
30. CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL WIRING WITH THE SOURCE AND CIRCUIT AT ALL ELECTRICAL EQUIPMENT, PULL AND JUNCTION BOXES AND ELECTRICAL TERMINATIONS PROVIDED OR ASSOCIATED WITH THIS CONSTRUCTION.
31. WHERE CONDUITS PENETRATE FIRE RATED WALLS OR FLOORS, FURNISH AND INSTALL FIRE STOPPING THAT IS AN UNDERWRITERS LABORATORIES LISTED SYSTEM OR A DESIGN AND INSTALLATION THAT CONFORMS TO THE FLORIDA BUILDING CODE.
32. CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED SURFACES AND AREAS WHERE EQUIPMENT WAS REMOVED OR MODIFIED, TO MATCH EXISTING CONDITIONS.
33. ALL NEW CONDUITS TO BE CONCEALED IN WALL WHERE POSSIBLE. ALL CONDUITS IN CEILING TO BE PAINTED TO MATCH SURROUNDING MATERIAL.
34. ALL BRANCH CIRCUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
35. REFER TO ARCHITECTURAL RCP FOR REFERENCE AS TO WHICH FIXTURES ARE NEW, EXISTING, OR TO BE RELOCATED.
36. REFER TO E-601 SHEET FOR SECTION VIEWS OF STACKED RECEPTACLE LOCATIONS.
37. ALL LIGHTING CIRCUITS SHOWN ON PLAN TO HOME RUN BACK TO PANEL LPA.



Orange County Government

Orange County Sheriff's Office Central Operations Center

Sheriff's Office Command and Monitor Center

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Seal 09/15/2016

ALVIN C. JAMES 62471

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DATE	SUBMISSION / REVISION	NO.
11/18/2016	PERMIT REVIEW RESPONSES	1

FIRST FLOOR ELECTRICAL PLAN

SCALE: AS INDICATED  
 DRAWN BY: T. COMER  
 CHECK BY: A. JAMES  
 DATE: 09/15/2016  
 PROJECT NUMBER: 15012-0011

E-101



PANEL 'A' SCHEDULE												
225 AMPS 120/208 Wye VOLTS 3 PHASE 4 WIRE 54 POLE SPACES			MAIN BREAKER 225 A LUGS GND. BAR CU SC RATING 10K ENCLOSURE Type 1				INSTALLATION A LOCATION NEW ELECTRICAL ROOM PANEL FEEDER NOTES					
CIRCUIT DESCRIPTION	CB. AMPS	Poles	CKT	A	B	C	CKT	Poles	CB. AMPS	CIRCUIT DESCRIPTION		
*LOBBY - 1001	20 A	1	1	0 VA	0 VA		2	1	20 A	*STAIR WELL - 1014		
*LOBBY - 1001	20 A	1	3		0 VA	500 VA	4	1	20 A	VAV 14-13.3		
*LOBBY - 1001	20 A	1	5			0 VA	0 VA	6	1	20 A	*CORRIDOR - 1010	
*CORRIDOR - 1030	20 A	1	7	0 VA	0 VA		8	1	20 A	*CORRIDOR - 1010		
*LOBBY RECESSED CANS	20 A	1	9		0 VA	0 VA	10	1	20 A	*LIGHTING - 1009		
*LOBBY RECESSED CANS	20 A	1	11			0 VA	1440 VA	12	1	20 A	MAIN OFFICE NORTH WALL MONITOR RECEPTACLES	
*CONTACTOR COIL	20 A	1	13	0 VA	0 VA		14	1	20 A	*CORRIDOR - 1010		
MAIN OFFICE - WEST WALL RECEPTACLES	20 A	1	15		1800 VA	0 VA	16	1	20 A	*FUTURE AREA 1015		
COMMAND AREA EAST WALL RECEPTACLES	20 A	1	17			360 VA	0 VA	18	1	20 A	*FUTURE AREA 1015	
WORK STATION RECEPTACLES	20 A	1	19	1440 VA	0 VA		20	1	20 A	*STAIR WELL 1006		
WORK STATION RECEPTACLES	20 A	1	21		0 VA	1440 VA	22	1	20 A	WORK STATION RECEPTACLES		
WORK STATION RECEPTACLES	20 A	1	23			2160 VA	540 VA	24	1	20 A	WORK STATION RECEPTACLES	
WORK STATION RECEPTACLES	20 A	1	25	540 VA	900 VA		26	1	20 A	RECEPTACLE Room 6, 8, 7, 9		
COPY MACHINE	20 A	1	27		180 VA	360 VA	28	1	20 A	COUNTERTOP CONVENIENCE OUTLET		
OFFICE RECEPTACLES	20 A	1	29			1080 VA	360 VA	30	1	20 A	BREAK ROOM COUNTERTOP RECEPTACLES	
BREAK ROOM COUNTERTOP RECEPTACLES	20 A	1	31	360 VA	360 VA		32	1	20 A	REFRIGERATOR		
REFRIGERATOR	20 A	1	33		180 VA	900 VA	34	1	20 A	BREAK ROOM RECEPTACLES		
WORK STATION RECEPTACLES	20 A	1	35			1440 VA	1440 VA	36	1	20 A	WORK STATION RECEPTACLES	
TV MONITOR RECEPTACLES	20 A	1	37	720 VA	4852 VA		38					
VAV 14-12.1	20 A	1	39		1000 VA	4852 VA	40	3	20 A	WATER SOURCE HEAT PUMP		
VAV 14-13.1	20 A	1	41			1000 VA	4852 VA	42				
VAV 14-12.3, 14-12.4	20 A	1	43	1000 VA	0 VA		44	1	0 A	SPARE		
SPARE	0 A	1	45		0 VA	0 VA	46	1	0 A	SPARE		
SPARE	0 A	1	47			0 VA	900 VA	48	1	20 A	CONFERENCE ROOM RECEPTACLES	
VAV 14-12.2	20 A	3	51	49	1000 VA	2000 VA	50					
			53		1000 VA	2000 VA	52	3	20 A		VAV 14-13.2	
					13172 VA	14212 VA	18572 VA	54				
<b>Total Load:</b>					110 A	120 A	156 A					
<b>Total Amps:</b>												

PANEL 'LPA' SCHEDULE												
100 AMPS 480/277 Wye VOLTS 3 PHASE 4 WIRE 42 POLE SPACES			MAIN BREAKER 100 A LUGS - GND. BAR CU SC RATING 10K ENCLOSURE Type 1				INSTALLATION LPA LOCATION ELEC. RM. 1017 PANEL FEEDER NOTES					
CIRCUIT DESCRIPTION	CB. AMPS	Poles	CKT	A	B	C	CKT	Poles	CB. AMPS	CIRCUIT DESCRIPTION		
*LOBBY - 1001	20 A	1	1	0 VA	0 VA		2	1	20 A	*STAIR WELL - 1014		
*LOBBY - 1001	20 A	1	3		0 VA	0 VA	4	1	20 A	SPARE		
*LOBBY - 1001	20 A	1	5			0 VA	0 VA	6	1	20 A	*CORRIDOR - 1010	
*CORRIDOR - 1030	20 A	1	7	0 VA	0 VA		8	1	20 A	*CORRIDOR - 1010		
*LOBBY RECESSED CANS	20 A	1	9		0 VA	0 VA	10	1	20 A	*LIGHTING - 1009		
*LOBBY RECESSED CANS	20 A	1	11			0 VA	1552 VA	12	1	20 A	KITCHEN, OFFICES, CONF. ROOM LIGHTING	
*CONTACTOR COIL	20 A	1	13	0 VA	0 VA		14	1	20 A	*CORRIDOR - 1010		
MAIN OPERATIONS AREA LIGHTING	20 A	1	15		868 VA	0 VA	16	1	20 A	*FUTURE AREA - 1015		
MAIN OPERATIONS AREA LIGHTING	20 A	1	17			1058 VA	0 VA	18	1	20 A	*FUTURE AREA - 1015	
*1529	20 A	1	19	0 VA	0 VA		20	1	20 A	*STAIRWELL - 1006		
*1536	20 A	1	21		0 VA	0 VA	22	1	20 A	*OFFICES		
*1520	20 A	1	23			0 VA	0 VA	24	1	20 A	*CORRIDOR	
*1513	20 A	1	25	0 VA	0 VA		26	1	20 A	*EMERGENCY LIGHTING		
*1600	20 A	1	27		0 VA	0 VA	28	1	20 A	*1449		
*WAREHOUSE 1015	20 A	1	29			0 VA	0 VA	30	1	20 A	*1440	
*EMERGENCY SENSING LINE	20 A	3	31	0 VA	0 VA		32	1	20 A	*1424		
SPARE	20 A	1	33		0 VA	0 VA	34	1	20 A	*1410		
SPARE	20 A	1	35		0 VA	0 VA	36	1	20 A	*1167		
SPARE	20 A	1	37	0 VA	0 VA		38	1	20 A	*1164		
SPARE	20 A	1	39		0 VA	0 VA	40	1	20 A	*1160		
SPARE	20 A	1	41			0 VA	0 VA	42	1	20 A	SPARE	
<b>Total Load:</b>				0 VA	868 VA	2610 VA						
<b>Total Amps:</b>				0 A	4 A	10 A						

\*NOTE: EXISTING CIRCUIT TO REMAIN.  
ALL BRANCH CIRCUIT WIRE SIZES INDICATED IN ELECTRICAL POWER PLAN ON SHEET E-101 VERIFIED TO ACCOMMODATE FOR VOLTAGE DROP.

PANEL 'UPSA' SCHEDULE												
225 AMPS 120/208 Wye VOLTS 3 PHASE 4 WIRE 42 POLE SPACES			MAIN BREAKER 225 A LUGS GND. BAR SC RATING ENCLOSURE Type 1				INSTALLATION UPSA LOCATION ELECTRICAL RM. 1309 PANEL FEEDER NOTES					
CIRCUIT DESCRIPTION	CB. AMPS	Poles	CKT	A	B	C	CKT	Poles	CB. AMPS	CIRCUIT DESCRIPTION		
IMAGE LAB 1234	20 A	1	1	1440 VA	1440 VA		2	1	20 A	IMAGE LAB 1234		
IMAGE LAB 1234	20 A	1	3		1440 VA	1440 VA	4	1	20 A	IMAGE LAB 1234		
IMAGE LAB 1234	20 A	1	5			1440 VA	1440 VA	6	1	20 A	IMAGE LAB 1234	
IMAGE LAB 1234	20 A	1	7	1440 VA	1440 VA		8	1	20 A	IMAGE LAB 1234		
IMAGE LAB 1234	20 A	1	9		1440 VA	1440 VA	10	1	20 A	IMAGE LAB 1234		
IMAGE LAB 1234	20 A	1	11			1440 VA	1440 VA	12	1	20 A	IMAGE LAB 1234	
IMAGE LAB 1234	20 A	1	13	1440 VA	1440 VA		14	1	20 A	PRINTERS AND PLOTTERS		
IDF ROOM RECEPTACLE	20 A	1	15		180 VA	1440 VA	16	1	20 A	PRINTERS AND PLOTTERS		
IDF ROOM RECEPTACLE	20 A	1	17			180 VA	1440 VA	18	1	20 A	PRINTERS AND PLOTTERS	
IDF ROOM RECEPTACLE	20 A	1	19	180 VA	180 VA		20	1	20 A	IDF ROOM RECEPTACLE		
SPARE	20 A	1	21		0 VA	0 VA	22	1	20 A	SPARE		
SPARE	20 A	1	23			0 VA	0 VA	24	1	20 A	SPARE	
SPARE	20 A	1	25	0 VA	0 VA		26	1	20 A	SPARE		
SPARE	20 A	1	27		0 VA	0 VA	28	1	20 A	SPARE		
SPARE	20 A	1	29			0 VA	0 VA	30	1	20 A	SPARE	
SPARE	20 A	1	31	0 VA	0 VA		32	1	20 A	SPARE		
SPARE	20 A	1	33		0 VA	0 VA	34	1	20 A	SPARE		
SPARE	20 A	1	35		0 VA	0 VA	36	1	20 A	SPARE		
TVSS	30 A	1	37	0 VA	0 VA		38	1	30 A	TVSS		
(TVSS)	0 A	1	39			0 VA	0 VA	40	1	0 A	(TVSS)	
(TVSS)	0 A	1	41			0 VA	0 VA	42	1	0 A	(TVSS)	
<b>Total Load:</b>				9000 VA	7380 VA	7380 VA						
<b>Total Amps:</b>				75 A	62 A	62 A						

Lighting Fixture Schedule						
Fixture ID	Manufacturer	Model	Count	Volts	Ballast	Description
LA	Cree, Inc.	LR22-34L-40K-20	19	277V	Continuous Dimming	Continuous dimming 0-10V to 5%
LB	Cree, Inc.	CS14-40L HE-35K	3	277V	Non-Dimming	1x4 pendant light in new electrical room
LC	Lithonia Lighting	2BZL2-30L-EZ1-LP840	34	277V	Continuous Dimming	Continuous dimming 0-10V to 1%



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PANEL SCHEDULES

SCALE: AS INDICATED

DRAWN BY: T. COMER

CHECK BY: A. JAMES

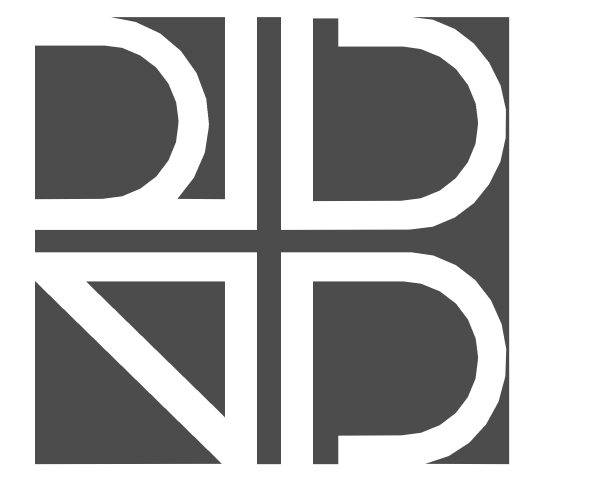
DATE: 09/15/2016

PROJECT NUMBER: 15012-0011

E-401



GENERAL NOTES  
 1. UNLESS OTHERWISE NOTED, ALL CIRCUITS DENOTED IN SHEET FED FROM PANEL A. REFER TO SHEET E-101 FOR PANEL LOCATION.



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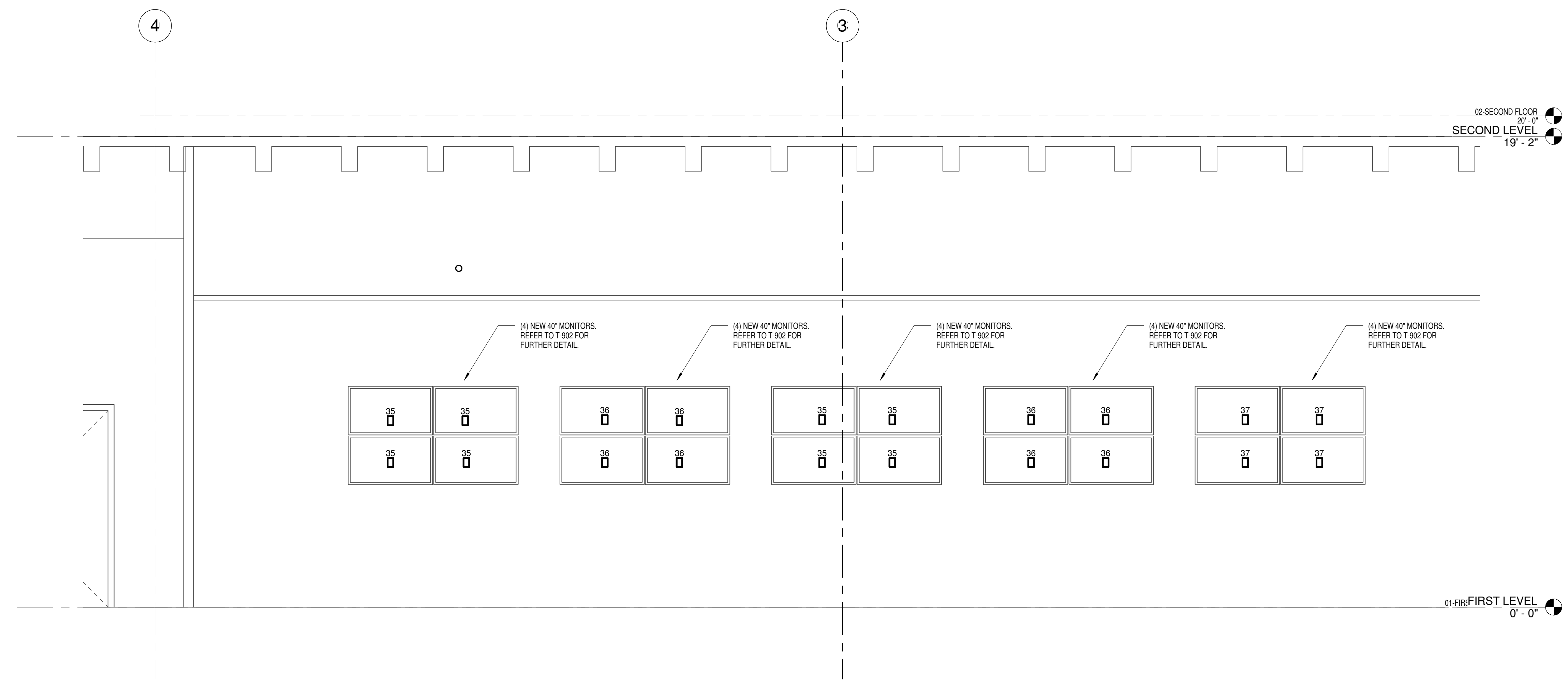
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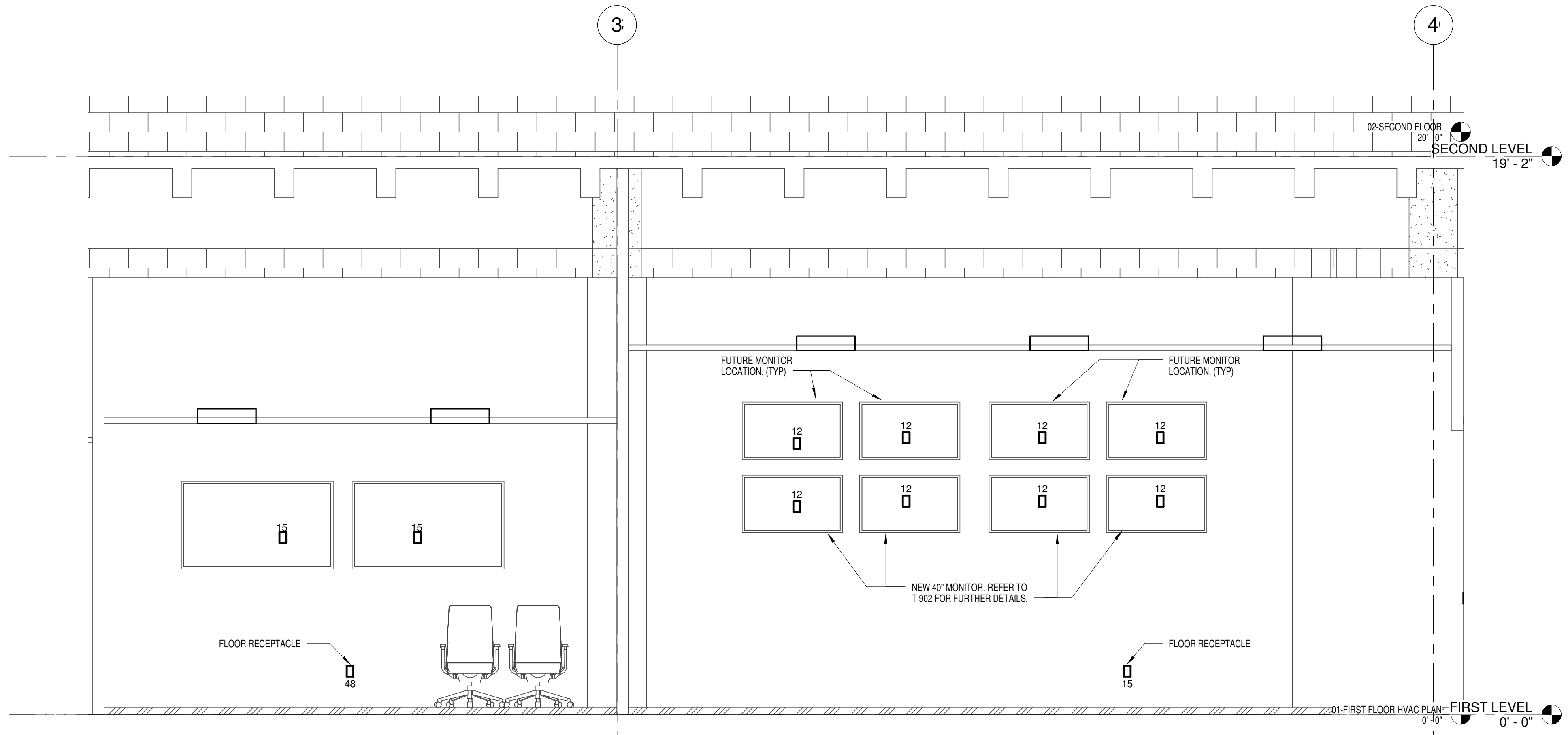
SECTION VIEWS

SCALE:	AS INDICATED
DRAWN BY:	T. COMER
CHECK BY:	A. JAMES
DATE:	09/15/2016
PROJECT NUMBER:	15012-0011

E-601



1 TRAFFIC MONITORING AREA - SOUTH ELEV.  
 E-601 SCALE: 3/8" = 1'-0"



2 CONFERENCE ROOM SOUTH WALL ELEV.  
 E-601 SCALE: 3/8" = 1'-0"



27 05 00 - COMMUNICATIONS GENERAL SYMBOL LEGEND	CONDUIT SIZE	CABLE TYPE
EXPOSED CONDUIT OR RACEWAY SYSTEM.	AS SHOWN ON DRWGS.	AS SHOWN ON DRWGS.
CONCEALED CONDUIT OR RACEWAY.	AS SHOWN ON DRWGS.	AS SHOWN ON DRWGS.
CONDUIT OR RACEWAY INSTALLED UNDERGROUND OR BELOW SLAB.	AS SHOWN ON DRWGS.	AS SHOWN ON DRWGS.
EXISTING CONDUIT OR RACEWAY TO REMAIN. NOTE: FOR PURPOSES OF CLARITY EXISTING CONDUIT AND RACEWAYS ON DEMOLITION DRAWINGS ARE SHOWN WITH CONTINUOUS LINE TYPE. DASHED LINE TYPE IS SHOWN ON RENOVATION DRAWINGS TO DIFFERENTIATE EXISTING FROM NEW.	AS SHOWN ON DRWGS.	AS SHOWN ON DRWGS.
4" X 4" FLUSH OUTLET BOX WITH SINGLE GANG PLATE AND CONDUIT EXTENDED TO NEAREST ACCESSIBLE CEILING SPACE. INSTALLED AT 18" UNLESS NOTED OTHERWISE. WALL PLATE COLOR AS SPECIFIED BY ARCHITECT UNLESS NOTED OTHERWISE.	MIN. 3/4" UNLESS OTHERWISE	N/A
4" X 4" FLUSH OUTLET BOX WITH SINGLE GANG PLATE. INSTALLED FLUSH IN CEILING. INSTALLED CENTERED IN CEILING TILE. WALL PLATE COLOR AS SPECIFIED BY ARCHITECT UNLESS NOTED OTHERWISE.	MIN. 3/4" UNLESS OTHERWISE	N/A
4" X 4" FLUSH OUTLET BOX WITH SINGLE GANG PLATE INSTALLED IN ACCESSIBLE AREA ABOVE CEILING. WALL PLATE COLOR AS SPECIFIED BY ARCHITECT UNLESS NOTED OTHERWISE.	MIN. 3/4" UNLESS OTHERWISE	N/A
4" X 4" FLUSH OUTLET BOX WITH SINGLE GANG PLATE INSTALLED IN AN EXPOSED, ACCESSIBLE LOCATION. WALL PLATE COLOR AS SPECIFIED BY ARCHITECT UNLESS NOTED OTHERWISE.	MIN. 3/4" UNLESS OTHERWISE	N/A

COMMUNICATIONS GENERAL SYMBOL LEGEND NOTES

GENERAL

1. THE COMMUNICATIONS GENERAL SYMBOL LEGEND AND ASSOCIATED NOTES APPLY TO ALL COMMUNICATIONS SYSTEM SHOWN WITHIN THESE DRAWINGS.
2. READ SPECIFICATIONS FOR ALL COMMUNICATIONS SYSTEMS AND OTHER APPLICABLE SECTIONS. REFER TO SPECIFICATIONS AS NECESSARY TO PROPERLY COMPLETE ALL WORK REQUIREMENTS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF ALL TRADES ON THE PROJECT. THE CONTRACTOR SHALL ENSURE THAT DEVICES AND EQUIPMENT FOR ALL SYSTEMS DEVICES ARE INSTALLED LOGICALLY AND IN KEEPING WITH THE DESIGN INTENT. THE CONTRACTOR SHALL ALSO ENSURE THAT ALL DEVICES AND EQUIPMENT ARE PROPERLY COORDINATED WITH OTHER DIVISIONS DEVICES AND EQUIPMENT (E.G. DOORS, WINDOWS, MILLWORK, LIGHTING FIXTURES, ETC.) AS NECESSARY TO ENSURE A CORRECT AND FULLY COORDINATED INSTALLATION. ANY REQUIRED REMEDIAL WORK TO CORRECT COORDINATION DEFICIENCIES SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.
4. DUE TO ARCHITECTURAL ASPECTS OF THE BUILDING, THE CONTRACTOR SHALL FIELD VERIFY THE ROUTING OF CABLES FOR VARIOUS SYSTEMS INSTALLED USING "J" TYPE HOOKS (I.E. VOICE, DATA, TV, ETC.), WHERE INSTALLED CABLING PENETRATES ABOVE CEILING WALLS (RATED OR NOT) THE CONTRACTOR SHALL PROVIDE AND INSTALL FIRESTOPPED SLEEVES FOR ROUTING OF CABLES. SIZE AND QUANTITY OF SLEEVES AS NECESSARY FOR INSTALLED CABLES PLUS ONE (1) SPARE FOR THE OWNER'S FUTURE USE.
5. "J" HOOK TYPE ROUTING SHALL BE ACCOMPLISHED IN A LOGICAL MANNER THAT PROVIDES A PATHWAY THAT IS ACCESSIBLE, INDEPENDENTLY SUPPORTS INSTALLED CABLING (E.G. CABLES NOT LAYING ON OR SUPPORTED BY OTHER EQUIPMENT, MATERIALS, ETC.) AND IS NOT IN CONFLICT WITH OTHER BUILDING SYSTEMS. J-HOOK SPACING SHALL NOT EXCEED FOUR FEET (4').
6. REFER TO SPECIFICATIONS, RISER DIAGRAMS, BLOCK DIAGRAMS, AND DETAILS AS NECESSARY TO UNDERSTAND THE FULL INTENT AND SCOPE OF THE INDIVIDUAL SYSTEMS.
7. CONTRACTOR SHALL EXAMINE AND BECOME FAMILIAR WITH THOSE AREAS OF THE BUILDING AND SITE AFFECTED BY THIS PROJECT PRIOR TO SUBMITTING A BID PRICE. SUBMISSION OF A BID PRICE WILL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND DIFFICULTIES THAT MAY AFFECT THE WORK OF THIS PROJECT. CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED BY THE CONTRACTOR WILL NOT BE ACCEPTABLE.
8. RACEWAY, POWER AND GROUNDING REQUIREMENTS SHALL COMPLY WITH APPLICABLE SPECIFICATION SECTIONS WHERE A CONFLICT ARISES THE MOST STRINGENT REQUIREMENT SHALL APPLY.
9. WHERE MINIMUM CONDUIT SIZE IS NOTED CONTRACTOR SHALL CONFIRM ACTUAL CONDUIT SIZE AND QUANTITY WITH SYSTEM INSTALLER PRIOR TO BID. CONDUITS SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) AND OTHER CODES AND STANDARDS AS OUTLINED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL INCREASE CONDUIT SIZE AS NECESSARY BASED ON QUANTITY AND SIZE OF CABLES TO BE INSTALLED. REFER TO SPECIFICATIONS.
10. PROVIDE AND INSTALL CABLE/WIRING AS RECOMMENDED BY MANUFACTURER AND APPLICABLE CODES AND STANDARDS, UNLESS OTHERWISE CALLED FOR ON DRAWINGS OR IN SPECIFICATIONS, WHERE CONFLICTS EXISTING, THE LARGEST SIZE CALLED FOR SHALL BE USED.
11. SIZE PATHWAYS AS RECOMMENDED BY MANUFACTURER AND APPLICABLE CODES AND STANDARDS, UNLESS OTHERWISE CALLED FOR ON DRAWINGS OR IN SPECIFICATIONS, WHERE CONFLICTS EXISTING, THE LARGEST SIZE CALLED FOR SHALL BE USED.
12. SIZE TERMINAL CABINETS AS REQUIRED TO HOUSE ALL REQUIRED EQUIPMENT, MATERIALS, TERMINATIONS, AND FIFTY PERCENT (50%) SPARE CAPACITY.
13. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODE REQUIREMENTS WHETHER OR NOT SPECIFICALLY NOTED IN THE DRAWINGS AND SPECIFICATIONS. COORDINATE WITH THE AUTHORITY HAVING JURISDICTION (AHJ) AS NECESSARY.
14. COMPLY WITH ADA REQUIREMENTS.
15. EMPTY RACEWAYS SHALL HAVE A NYLON PULLSTRING (150 LBS. MIN) INSTALLED.
16. ALL RACEWAYS SHALL BE LABELED ON BOTH ENDS INDICATING OTHER ENDS LOCATION.
17. RACEWAY TERMINATIONS IN TERMINAL CABINETS OR WHERE EXPOSED SHALL BE PROVIDED WITH BUSHINGS. BUSHINGS SHALL NOT BE MODIFIED OR CUT FOR INSTALLATION PURPOSES.
18. ALL RACEWAY TERMINATIONS SHALL HAVE BUSHINGS AND METALLIC RACEWAY TERMINATIONS SHALL BE GROUNDED.
19. PROVIDE FIRESTOPPING ON ALL CONDUITS PENETRATING A RATED WALL OR FLOOR. FIRESTOPPING MATERIALS OR DEVICES SHALL HAVE THE SAME FIRE RESISTANCE RATING AS THE WALL OR FLOOR WHICH THEY ARE TO PROTECT.
20. SPLICES IN COMMUNICATION SYSTEMS CABLES SHALL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED ON DRAWINGS OR APPROVED IN WRITING BY DESIGNER.
21. ALL COMMUNICATION SYSTEMS OUTLETS WITH ASSOCIATED POWER OUTLETS SHALL BE MOUNTED AT THE SAME HEIGHT AND ORIENTATION AS POWER OUTLETS UNLESS SPECIFICALLY NOTED OTHERWISE.
22. LOCATION OF DEVICES ON PLANS IS APPROXIMATE ONLY. VERIFY EXACT LOCATIONS OF DEVICES WITH ARCHITECT AND DESIGNER PRIOR TO ROUGH-IN. COORDINATE WITH MILLWORK AS NECESSARY.
23. COORDINATE EXACT LOCATION OR OUTLETS AND DEVICES WITH OTHER WORK (I.E. MILLWORK, CABINETS, DOORS, WINDOWS ETC.) PRIOR TO ROUGH-IN.
24. PROVIDE AND INSTALL CABLE TO ALL OUTLETS AND DEVICES UNLESS SPECIFICALLY NOTED OTHERWISE.
25. ALL RACEWAYS AND CABLES TO BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE OR APPROVED IN WRITING BY DESIGNER. SEE SPECIFICATIONS AND GENERAL NOTES FOR ADDITIONAL INFORMATION.

COMMUNICATIONS GENERAL SYMBOL LEGEND NOTES (CONT.)

26. THE DESIGN INTENT IS THAT, WITH THE EXCEPTION OF BACKBONE CABLING AND CABLING TO OUTLETS AND DEVICES, SPECIFICALLY SHOWN AS BEING ROUTED UNDERGROUND OR IN SLAB, HORIZONTAL CONDUIT RUNS AND THE ASSOCIATED CABLING TO OUTLETS AND OTHER DEVICES SHALL BE INSTALLED ABOVE GROUND AND HIDDEN IN CEILING CAVITIES OR OTHER INTERSTITIAL SPACES. WHERE CABLES ARE INSTALLED BELOW GRADE THEY SHALL BE RATED FOR WET LOCATIONS (I.E. GEL-FILLED OR WATER BLOCKED), WHERE THE CONTRACTOR DESIRES TO ROUTE CONDUITS AND CABLING TO OUTLETS AND DEVICES IN ABOVE-GRADE SLABS, INSTEAD OF IN CEILING CAVITIES AS OUTLINED ABOVE, HE SHALL OBTAIN THE WRITTEN APPROVAL OF THE DESIGNER PRIOR TO ROUGH-IN.
27. WHERE BOXES OR DEVICES ARE INSTALLED BEHIND INACCESSIBLE CEILING OR WALLS CONTRACTOR SHALL PROVIDE AND INSTALL A PROPERLY SIZED ACCESS PANEL. WHERE CEILING OR WALL IS RATED ACCESS PANEL RATING SHALL MATCH WALL RATING.
28. CONTRACTOR SHALL COORDINATE ITEMS ABOVE THE CEILING IN A MANNER THAT PREVENTS CONFLICTS AND MAINTAINS ACCESSIBILITY.

EXISTING CONDITIONS

1. VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK.
2. WHERE FIELD CONDITIONS VARY SUBSTANTIALLY FROM THOSE SHOWN IN THE CONTRACT DOCUMENTS CONTRACTOR SHALL NOTIFY DESIGNER IN WRITING UPON DISCOVERY.
3. ALL EXISTING COMMUNICATIONS SYSTEMS DEVICES AND CABLING NOT NECESSARILY SHOWN, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY EXISTING CIRCUITRY AND DEVICES TO REMAIN AND PROTECT DURING CONSTRUCTION. CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING TO REMAIN AS NECESSARY TO ACCOMPLISH THE WORK OF THE PROJECT.
4. DASHED LINES (I.E. ---) AND SYMBOLS REPRESENT EITHER EXISTING TO REMAIN OR ITEMS PROVIDED AND INSTALLED BY OTHERS OUTSIDE THIS CONTRACT. OTHER LINE TYPES REPRESENT WORK TO BE PROVIDED AND INSTALLED BY CONTRACTOR.

27 10 00 - VOICE/DATA CABLE INFRA. SYMBOL LEGEND	CONDUIT SIZE	CABLE TYPE
VOICE/DATA WORKSTATION OUTLET. FLUSH MOUNTED IN WALL. 18" A.F.F. UNLESS NOTED OTHERWISE. 4" X 4" OUTLET BOX WITH SINGLE GANG PLATE. ONE (1) 1" CONDUIT ROUTED FROM OUTLET TO NEAREST ACCESSIBLE CEILING AREA IN ROOM BEING SERVED.	1" MIN.	CATEGORY 6 CABLES PROVIDED AND INSTALLED BY OWNER'S VENDOR. QUANTITY AS SHOWN ON DRAWINGS.
WIRELESS ACCESS POINT (WAP) OUTLET. INSTALLED FLUSH IN CEILING UNLESS NOTED OTHERWISE. INSTALLED 4" X 4" OUTLET BOX WITH SINGLE GANG PLATE AND CHASE NIPPLE ON BACK SIDE FOR ROUTING CABLES.	1" MIN.	ONE (1) CATEGORY 6 CABLE PROVIDED AND INSTALLED BY OWNER'S VENDOR.
TELEPHONE OUTLET. FLUSH MOUNTED IN WALL. 18" A.F.F. UNLESS NOTED OTHERWISE. SINGLE GANG PLATE WITH DOUBLE GANG OUTLET BOX. ONE (1) CONDUIT ROUTED FROM OUTLET TO NEAREST ACCESSIBLE CEILING AREA IN ROOM BEING SERVED.	1" MIN.	ONE (1) CATEGORY 6 CABLE PROVIDED AND INSTALLED BY OWNER'S VENDOR.
WALL MOUNTED TELEPHONE OUTLET. FLUSH MOUNTED IN WALL AT 48" A.F.F. UNLESS NOTED OTHERWISE. SINGLE GANG PLATE WITH DOUBLE GANG OUTLET BOX. ONE (1) CONDUIT ROUTED FROM OUTLET TO NEAREST ACCESSIBLE CEILING AREA IN ROOM BEING SERVED.	1" MIN.	ONE (1) CATEGORY 6 CABLE PROVIDED AND INSTALLED BY OWNER'S VENDOR.
VOICE/DATA WORKSTATION OUTLET IN FLOOR BOX. REFER TO VOICE/DATA WORKSTATION OUTLET SYMBOL. REFER TO ELECTRICAL DRAWINGS AND SPECS FOR INFORMATION ON STANDARD FLOOR BOXES. REFER TO DIVISION 27 AND 28 SPECS FOR SPECIALTY FLOOR BOXES.	1" MIN.	CATEGORY 6 CABLES PROVIDED AND INSTALLED BY OWNER'S VENDOR. QUANTITY AS SHOWN ON DRAWINGS.
CABLE TRAY SYSTEM. INSTALLED WHERE SHOWN ON DRAWINGS. REFER TO SPECS FOR CABLE TRAY TYPE.	N/A	N/A
WALL MOUNTED BACKBOARD, 8" HIGH. BOTTOM EDGE 4" A.F.F. INSTALLED ALL AROUND ROOM AS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.	N/A	N/A
SYSTEM GROUND BUS BAR. INSTALL 2/0 AWG BONDING CONDUCTOR FROM GROUND BUS BAR TO BUILDING GROUNDING SYSTEMS. COORDINATE WITH ELECTRICAL.	N/A	N/A
VOICE/DATA FREE-STANDING EQUIPMENT RACK FOOTPRINT SECURED TO STRUCTURAL FLOOR PER MANUFACTURER'S RECOMMENDATIONS.	N/A	N/A
VOICE/DATA CABLE INFRASTRUCTURE SYSTEM EQUIPMENT CABINET. FLOOR MOUNTED. FREE-STANDING. INSTALLED IN LOCATION SHOWN ON DRAWINGS.	N/A	N/A
VOICE/DATA CABLE INFRASTRUCTURE SYSTEM EQUIPMENT CABINET. WALL MOUNTED. INSTALLED IN LOCATION SHOWN ON DRAWINGS.	N/A	N/A
VOICE SYSTEM CABLES IN RACEWAY UNLESS OTHERWISE NOTED. INCREASE MIN. CONDUIT SIZE AND QUANTITY PER NEC FOR QUANTITY AND SIZE OF CABLES INSTALLED.	HORIZONTAL 1" MIN. BACKBONE 4" MIN.	AS SHOWN ON DRAWINGS
DATA SYSTEM CABLES IN RACEWAY UNLESS OTHERWISE NOTED. INCREASE MIN. CONDUIT SIZE AND QUANTITY PER NEC FOR QUANTITY AND SIZE OF CABLES INSTALLED.	HORIZONTAL 1" MIN. BACKBONE 4" MIN.	AS SHOWN ON DRAWINGS

VOICE/DATA CABLE INFRASTRUCTURE SYSTEM SYMBOL LEGEND NOTES

GENERAL

1. REFER TO COMMUNICATIONS GENERAL SYSTEM LEGEND AND GENERAL NOTES.
2. WIRE AND CABLE SHALL BE INSTALLED IN J-HOOK ASSEMBLIES AND CABLE TRAYS AS SHOWN ON THE DRAWINGS ABOVE ACCESSIBLE (DROP) CEILINGS. WIRE AND CABLE INSTALLED IN WALL CAVITIES, ABOVE INACCESSIBLE CEILINGS, OR IN AREAS OPEN TO STRUCTURE (E.G. NOT INSTALLED ABOVE ACCESSIBLE (DROP) CEILINGS) SHALL BE IN CONDUIT. ALL BACKBONE CABLING SHALL BE IN A COMPLETE CONDUIT SYSTEM.
3. PROVIDE AND INSTALL SYSTEM COMPLETE WITH ALL EQUIPMENT, DEVICES, MATERIALS, CABLES, PATHWAYS (I.E. RACEWAYS, CONDUITS, BOXES, ETC.), PROGRAMMING, AND TESTING.
4. ALL VOICE/DATA CABLE INFRASTRUCTURE SYSTEM WALL OUTLET BOXES SHALL BE 4-1/16" X 4-1/16" X 2-3/4" DEEP FLUSH BOXES WITH TRIM RING AS REQUIRED TO ACCOMMODATE WALL CONSTRUCTION. EACH OUTLET SHALL BE PROVIDED WITH FLUSH OUTLET FACEPLATE.

27 41 13 - AUDIO/VIDEO SYSTEMS SYMBOL LEGEND	CONDUIT SIZE	CABLE TYPE
LINE LEVEL AUDIO OUTLET PLATE. SINGLE GANG, STAINLESS STEEL. OUTLET PLATE WITH NUMBER OF JACKS AS REPRESENTED BY SYMBOL. SUBSCRIPT JACKS TO BE LABELED "RIGHT" AND "LEFT". INSTALLED AT 18" A.F.F. UNLESS NOTED OTHERWISE.	3/4" MIN.	ONE (1) SHIELDED, TWISTED PAIR CABLE PER JACK
CEILING MOUNTED SPEAKER ASSEMBLY. SPEAKER ASSEMBLY TO INCLUDE SPEAKER, TRANSFORMER, GRILLE, BACK BOX, AND TIE-BRIDGE. SPEAKER ASSEMBLY TO BE MOUNTED FLUSH IN CEILING. WHERE INSTALLED IN CEILING TILES SPEAKER ASSEMBLY SHALL BE CENTERED ON TILE.	3/4" MIN.	ONE (1) TWISTED PAIR CABLE. AVG. SIZED FOR LOAD. SEE SPECS
WALL MOUNTED AUDIO ATTENUATOR. SINGLE-GANG, STAINLESS STEEL PLATE WITH INTEGRAL STEPPED ATTENUATOR. SHALL INCLUDE ENGRAVED AND FILLED "VOLUME CONTROL" LABEL. FLUSH MOUNTED. INSTALLED 48" A.F.F. TO CENTER.	3/4" MIN.	ONE (1) TWISTED PAIR CABLE. AVG. SIZED FOR LOAD. SEE SPECS
VIDEO PLATE. SINGLE-GANG, STAINLESS STEEL OUTLET PLATE WITH VIDEO HDMI, AUDIO, AND CONTROL CONNECTORS. WITH PATCH CORDS. FLUSH MOUNTED. INSTALLED AT 18" A.F.F. UNLESS OTHERWISE NOTED.	1-1/4" MIN.	REFER TO BLOCK DIAGRAM
VIDEO MONITOR WITH OUTLET AND PATCH CORD. SINGLE-GANG, STAINLESS STEEL OUTLET PLATE WITH REQUIRED CONNECTORS. OUTLET TO BE INSTALLED FLUSH IN WALL UNLESS OTHERWISE NOTED. MONITOR MOUNTING HEIGHT TO BE AS SHOWN ON PLAN OR IN DETAILS. OUTLET TO BE INSTALLED AT HEIGHT THAT IS CENTERED ON REAR OF MONITOR AT SAME HEIGHT AS POWER OUTLET. REFER TO SPECIFICATIONS.	ONE (1) 1" VIDEO, ONE (1) 3/4" AUDIO MIN.	REFER TO BLOCK DIAGRAM
VIDEO PROJECTOR WITH STRUCTURAL MOUNT. REMAIN OR ITEMS PROVIDED AND INSTALLED BY OTHERS OUTSIDE THIS CONTRACT. PATCH CORDS. TWO-GANG, STAINLESS STEEL OUTLET PLATE WITH RGBHV CONNECTORS. CONNECTOR STYLE TO MATCH CONNECTOR ON MONITOR. OUTLET TO BE INSTALLED FLUSH IN [CEILING] [TABLE] [WALL] UNLESS OTHERWISE NOTED. PROJECTOR TO BE [CEILING] [TABLE] MOUNTED AS NOTED ON DRAWINGS. PROJECTOR MOUNTING HEIGHT TO BE AS REQUIRED FOR PROPER PROJECTION OF VIDEO IMAGE ON PROJECTION SCREEN.	ONE (1) 1" VIDEO, ONE (1) 3/4" CONTROL MIN.	REFER TO BLOCK DIAGRAM
AUDIO/VIDEO SYSTEM EQUIPMENT CABINET (AVEC). FLOOR MOUNTED. FREE-STANDING. INSTALLED IN LOCATION SHOWN ON DRAWINGS.	N/A	N/A
AUDIO/VIDEO SYSTEM EQUIPMENT CABINET (AVEC). WALL MOUNTED. INSTALLED IN LOCATION SHOWN ON DRAWINGS.	N/A	N/A
AUDIO SYSTEM CABLES IN RACEWAY UNLESS OTHERWISE NOTED. SIZE CONDUIT PER NATIONAL ELECTRIC CODE FOR QUANTITY AND SIZE OF CABLES INSTALLED.	3/4" MIN.	AS SHOWN ON DRAWINGS
VIDEO SYSTEM CABLES IN RACEWAY UNLESS OTHERWISE NOTED. SIZE CONDUIT PER NATIONAL ELECTRIC CODE FOR QUANTITY AND SIZE OF CABLES INSTALLED.	1" MIN.	AS SHOWN ON DRAWINGS
CONTROL SYSTEM CABLES IN RACEWAY UNLESS OTHERWISE NOTED. SIZE CONDUIT PER NATIONAL ELECTRIC CODE FOR QUANTITY AND SIZE OF CABLES INSTALLED.	3/4" MIN.	AS SHOWN ON DRAWINGS

AUDIO/VIDEO SYSTEM SYMBOL LEGEND NOTES

GENERAL

1. REFER TO COMMUNICATIONS GENERAL SYSTEM LEGEND AND GENERAL NOTES.
  2. WIRE AND CABLE SHALL BE INSTALLED IN J-HOOK ASSEMBLIES ABOVE ACCESSIBLE (DROP) CEILINGS. WIRE AND CABLE INSTALLED IN WALL CAVITIES, ABOVE INACCESSIBLE CEILINGS, OR IN AREAS OPEN TO STRUCTURE (E.G. NOT INSTALLED ABOVE ACCESSIBLE (DROP) CEILINGS) SHALL BE IN CONDUIT. ALL BACKBONE CABLING SHALL BE IN A COMPLETE CONDUIT SYSTEM.
  3. PROVIDE AND INSTALL SYSTEM COMPLETE WITH ALL EQUIPMENT, DEVICES, MATERIALS, CABLES, PATHWAYS (I.E. RACEWAYS, CONDUITS, BOXES, ETC.), PROGRAMMING, AND TESTING.
  4. MINIMUM RACEWAY SIZE SHALL BE 3/4".
- COORDINATE WITH THE FIRE ALARM SYSTEM INSTALLER TO PROVIDE A SIGNAL TO MUTE THE AUDIO SYSTEM UPON ALARM.

EXISTING CONDITIONS

- PROVIDE ALL PROGRAMMING REVISIONS, FIRMWARE UPDATES, ETC. FOR EXISTING AUDIO/VIDEO EQUIPMENT AS REQUIRED TO ACCOMPLISH THE WORK OF THIS PROJECT.

28 31 00 - FIRE ALARM SYSTEM SYMBOL LEGEND	CONDUIT SIZE	CABLE TYPE
IONIZATION TYPE SMOKE DETECTOR. CEILING MOUNTED UNLESS OTHERWISE NOTED.	3/4" MIN.	PER EQUIP. MANUF.
PHOTOELECTRIC TYPE SMOKE DETECTOR. CEILING MOUNTED UNLESS OTHERWISE NOTED.	3/4" MIN.	PER EQUIP. MANUF.
PHOTOELECTRIC DUCT SMOKE DETECTOR. PROVIDED AND INSTALLED IN RETURN AIR DUCT FOR R AND INSTALLED IN SUPPLY AIR DUCT FOR S WITH SAMPLING TUBES SIZED FOR DUCT SURFACE MOUNTED ON SIDE OF DUCT WHERE ACCESSIBLE. WHERE DUCT DETECTORS ARE INSTALLED IN AN ACCESSIBLE LOCATION OF ABOVE TEN FEET CONTRACTOR SHALL PROVIDE AND INSTALL REMOTE TEST AND INDICATING STATION.	3/4" MIN.	PER EQUIP. MANUF.
MANUAL PULL STATION WITH KEY RESET AND DUAL ACTION OPERATION. FLUSH MOUNTED. INSTALLED 48" A.F.F. TO TOP UNLESS OTHERWISE NOTED.	3/4" MIN.	PER EQUIP. MANUF.
SPRINKLER SYSTEM TAMPER SWITCH CONNECTION TO FIRE ALARM SYSTEM. SWITCH PROVIDED AND INSTALLED BY OTHERS.	3/4" MIN.	PER EQUIP. MANUF.
SPRINKLER SYSTEM FLOW SWITCH CONNECTION TO FIRE ALARM SYSTEM. SWITCH PROVIDED AND INSTALLED BY OTHERS.	3/4" MIN.	PER EQUIP. MANUF.
RATE OF RISE HEAT DETECTOR. CEILING MOUNTED UNLESS OTHERWISE NOTED.	3/4" MIN.	PER EQUIP. MANUF.
AUDIBLE HORN WITH INTEGRAL STROBE LIGHT. FLUSH MOUNTED. INSTALLED 80" A.F.F. TO BOTTOM OF STROBE LENS UNLESS OTHERWISE NOTED.	3/4" MIN.	PER EQUIP. MANUF.
STROBE LIGHT. FLUSH MOUNTED. INSTALLED 80" A.F.F. TO BOTTOM OF STROBE LENS UNLESS OTHERWISE NOTED.	3/4" MIN.	PER EQUIP. MANUF.
ANALOG ADDRESSABLE RELAY. INSTALLED WITHIN THREE FEET OF DEVICE. BEING CONTROLLED OR MONITORED.	3/4" MIN.	PER EQUIP. MANUF.
FIRE ALARM SYSTEM CONTROL PANEL. SURFACE MOUNTED IN COMMUNICATIONS OR ELECTRICAL ROOMS. FLUSH MOUNTED IN ANY OTHER SPACE. INSTALLED 60" A.F.F. TO TOP UNLESS OTHERWISE NOTED.	BRANCH CIR. 3/4" MIN. BACKBONE 2" MIN.	PER EQUIP. MANUF.
FIRE ALARM SYSTEM REMOTE POWER SUPPLY. SURFACE MOUNTED. INSTALLED 60" A.F.F. TO TOP UNLESS OTHERWISE NOTED.	3/4" MIN.	PER EQUIP. MANUF.
FIRE ALARM TERMINAL CABINET.	3/4" MIN.	PER EQUIP. MANUF.
FIRE ALARM SYSTEM CABLES IN RACEWAY UNLESS OTHERWISE NOTED. SIZE CONDUIT PER NATIONAL ELECTRIC CODE FOR QUANTITY AND SIZE OF CABLES INSTALLED.	BRANCH CIR. 3/4" MIN. BACKBONE 2" MIN.	PER EQUIP. MANUF.

FIRE ALARM SYSTEM SYMBOL LEGEND NOTES

GENERAL

1. ALL WIRE AND CABLE SHALL BE IN A COMPLETE RACEWAY SYSTEM. INSTALL SIZE RACEWAY SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS, NATIONAL ELECTRIC CODE, AND THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE AND INSTALL SYSTEM COMPLETE WITH ALL EQUIPMENT, DEVICES, MATERIALS, CABLES, PATHWAYS (I.E. RACEWAYS, CONDUITS, BOXES, ETC.), PROGRAMMING, AND TESTING.
3. MINIMUM RACEWAY SIZE SHALL BE 3/4".
4. ALL FIRE ALARM SYSTEM EQUIPMENT AND DEVICES SHALL BE ANALOG ADDRESSABLE.
5. EACH DEVICE TO BE INDIVIDUALLY ANNUNCIATED AT CONTROL PANEL.
6. PROVIDE REMOTE INDICATION OF TROUBLE AND ALARM OF ALL DUCT SMOKE DETECTORS IN LOCATIONS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
7. COORDINATE INTERCONNECTION BETWEEN FIRE ALARM SYSTEM AND LIGHTING DIMMING SYSTEMS AS NECESSARY TO MEET CODE REQUIREMENTS.
8. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR FINAL ROOM NUMBERING PRIOR TO PROGRAMMING THE FIRE ALARM SYSTEM. THE FIRE ALARM SYSTEM PROGRAMMING SHALL REFLECT THE FINAL ROOM NUMBERING AS DISPLAYED ON THE INSTALLED SIGNAGE THROUGHOUT THE FACILITY. THE CONTRACTOR SHALL ENSURE THAT AS-BUILT DOCUMENTATION ALSO REFLECTS UPDATED ROOM NUMBERING INFORMATION.
9. THE CONTRACTOR SHALL NOT INSTALL WALL MOUNTED FIRE ALARM CABINETS, POWER SUPPLIES ETC. ON PLYWOOD BACKBOARD. CONTRACTOR SHALL COORDINATE FIRE ALARM EQUIPMENT INSTALLATION WITH PLYWOOD BACKBOARD PRIOR TO INSTALLATION.

MECHANICAL SYSTEMS

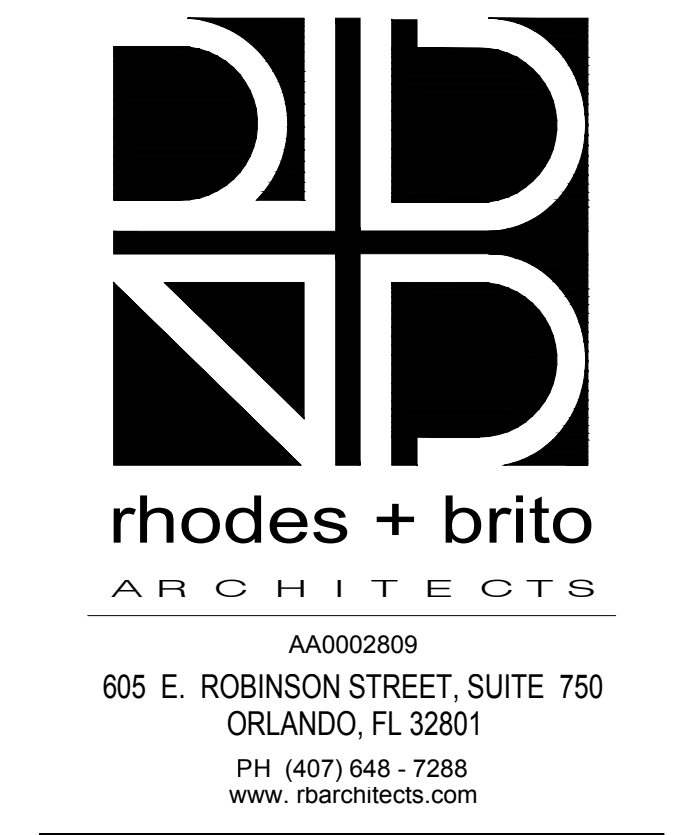
10. CONTRACTOR SHALL PROVIDE, INSTALL AND TERMINATE ALL ELECTRICAL AND FIRE ALARM SYSTEM EQUIPMENT INCLUDING, BUT NOT LIMITED TO, RACEWAYS, WIRE/CABLE, CIRCUIT BREAKERS, MODULES, RELAYS (UL LISTED FOR USE WITH FIRE ALARMS), ETC. NECESSARY TO SHUT DOWN ANY AIR HANDLING UNIT (AHU), SUPPLY FAN, FAN TERMINAL BOX (FTB) ETC. (I.E. ANY AIR MOVING EQUIPMENT) REQUIRED TO BE SHUT-DOWN BY THE FIRE ALARM SYSTEM. IN ADDITION, ELECTRIC DUCT HEATERS SHALL BE SHUT-DOWN. THIS REQUIREMENT FOR CONNECTION OF THE FIRE ALARM SYSTEM TO ANOTHER DEVICE OR SYSTEM SHALL BE EXTENDED TO INCLUDE ANY APPLICABLE CODE OR STANDARD, DIRECTLY OR INDIRECTLY REFERENCED BY THE SPECIFICATIONS, THAT REQUIRES INTERFACE WITH THE FIRE ALARM SYSTEM FOR CONTROLS OR MONITORING OF AN AIR MOVING DEVICE IN ORDER TO PROVIDE IN COMPLETE CODE COMPLIANT FIRE ALARM SYSTEM. COORDINATE ALL WORK WITH MECHANICAL SYSTEMS SUB-CONTRACTOR PRIOR TO ROUGH-IN.
11. COORDINATE SHUT-DOWN OF ALL MECHANICAL AIR SYSTEMS (AHU'S, EXHAUST FANS, FAN TERMINAL BOXES ETC.) AND ELECTRIC DUCT HEATERS WITH MECHANICAL SYSTEMS SPECIFICATIONS, DRAWINGS, AND INSTALLER.
12. PROVIDE ALL WORK AND EQUIPMENT TO SHUT-DOWN ALL AIR MOVING EQUIPMENT AS REQUIRED BY APPLICABLE CODES.
13. VERIFY WITH MECHANICAL SYSTEMS SUB-CONTRACTOR PRIOR TO ROUGH-IN LOCATION AND REQUIREMENTS FOR THE INTERFACE TO SHUT DOWN EQUIPMENT UPON FIRE ALARM SIGNAL.
14. UNITS REQUIRED TO BE SHUT DOWN BY THE STANDARDS MECHANICAL CODE AND NOT REQUIRED TO BE SHUT-DOWN BY THE FIRE ALARM SYSTEM ARE TO HAVE ALL WORK AND EQUIPMENT PROVIDED AND INSTALLED BY MECHANICAL SUB-CONTRACTOR.
15. WHERE REQUIRED FIRE ALARM INSTALLER SHALL PROVIDE AND INSTALL AN INDIVIDUAL ADDRESSABLE RELAY WITHIN THREE FEET (3') OF EACH PIECE OF EQUIPMENT (I.E. AHU, EXHAUST FAN TERMINAL BOX, ETC.) TO BE SHUT-DOWN UPON ALARM. DAISY-CHAINING MULTIPLE PIECES OF EQUIPMENT TO A COMMON RELAY OR MODULE SHALL NOT BE ACCEPTABLE. INTERFACING THE FIRE ALARM SYSTEM FOR SHUT-DOWN OF THE MECHANICAL SYSTEMS THROUGH THE CONTROL SYSTEM SHALL NOT BE ACCEPTABLE.
16. CONTRACTOR SHALL PROVIDE, INSTALL AND TERMINATE ALL ELECTRICAL AND FIRE ALARM SYSTEM EQUIPMENT INCLUDING, BUT NOT LIMITED TO, RACEWAYS, WIRE/CABLE, CIRCUIT BREAKERS, MODULES, RELAYS (UL LISTED FOR USE WITH FIRE ALARMS), ETC. NECESSARY FOR CONNECTION TO A SMOKE DAMPER, FIRE DAMPER, COMBINATION SMOKE/FIRE DAMPER OR ASSOCIATED DEVICE REQUIRED TO BE SHUT-DOWN BY THE FIRE ALARM SYSTEM. THIS REQUIREMENT FOR CONNECTION OF THE FIRE ALARM SYSTEM TO ANOTHER DEVICE OR SYSTEM SHALL BE EXTENDED TO INCLUDE ANY APPLICABLE CODE OR STANDARD, DIRECTLY OR INDIRECTLY REFERENCED BY THE SPECIFICATIONS, THAT REQUIRES INTERFACE WITH THE FIRE ALARM SYSTEM FOR CONTROLS OR MONITORING OF A DEVICE IN ORDER TO PROVIDE AND COMPLETE CODE COMPLIANT FIRE ALARM SYSTEM. COORDINATE ALL WORK WITH MECHANICAL SYSTEMS SUB-CONTRACTOR PRIOR TO ROUGH-IN.
17. CONTRACTOR SHALL PROVIDE, INSTALL AND TERMINATE ALL ELECTRICAL AND FIRE ALARM SYSTEM EQUIPMENT INCLUDING, BUT NOT LIMITED TO, RACEWAYS, WIRE/CABLE, CIRCUIT BREAKERS, MODULES, RELAYS (UL LISTED FOR USE WITH FIRE ALARMS), ETC. NECESSARY FOR A TAMPER SWITCH, FLOW SWITCH, PRESSURE SWITCH, POST INDICATOR VALVE OR OR ANY OTHER FIRE PROTECTION DEVICE REQUIRED TO BE SHUT-DOWN BY THE FIRE ALARM SYSTEM. THIS REQUIREMENT FOR CONNECTION OF THE FIRE ALARM SYSTEM TO ANOTHER DEVICE OR SYSTEM SHALL BE EXTENDED TO INCLUDE ANY APPLICABLE CODE OR STANDARD, DIRECTLY OR INDIRECTLY REFERENCED BY THE SPECIFICATIONS, THAT REQUIRES INTERFACE WITH THE FIRE ALARM SYSTEM FOR CONTROLS OR MONITORING OF A DEVICE IN ORDER TO PROVIDE AND COMPLETE CODE COMPLIANT FIRE ALARM SYSTEM. COORDINATE ALL WORK WITH SPRINKLER SYSTEM DRAWINGS, SPECIFICATIONS AND INSTALLER PRIOR TO ROUGH-IN.
18. COORDINATE EXACT REQUIREMENTS FOR FIRE ALARM SYSTEM INTERFACE TO SPRINKLER SYSTEM WITH SPRINKLER SYSTEM INSTALLER PRIOR TO ROUGH-IN. PROVIDE ALL WORK AND MATERIALS AS REQUIRED.

SPRINKLER SYSTEMS

SHEET INDEX		
SHEET	SHEET NAME	SCALE
T001	SYMBOL LEGEND AND SHEET INDEX - SYSTEMS	NTS
T101	OVERALL 1ST FLR PLAN (PARTIAL) - SYSTEMS	3/32"=1'
T102	OVERALL 2ND FLR PLAN (PARTIAL) - SYSTEMS	3/32"=1'
T201	GROUND FLOOR DEMO PLAN - SYSTEMS	1/8"=1'
T201	GROUND FLOOR PLAN - SYSTEMS	1/8"=1'
T901	DETAILS - SYSTEMS	NTS
T902	DETAILS - SYSTEMS	NTS
T903	DETAILS - SYSTEMS	NTS
T904	DETAILS - SYSTEMS	NTS

ABBREVIATIONS

- AF = ABOVE FINISHED FLOOR
- AFG = ABOVE FINISHED GRADE
- AHJ = AUTHORITY HAVING JURISDICTION
- BO = BOTTOM OF
- CD = CANDELA
- DEMO = DEMOLITION
- EX = EXISTING TO REMAIN
- FG = FLUSH GRADE
- IDF = INTERMEDIATE DISTRIBUTION FRAME
- LEC = LOCAL EXCHANGE CARRIER
- MDF = MAIN DISTRIBUTION FRAME
- MM = MULTIMODE
- NTS = NOT TO SCALE
- OFI = OWNER FURNISHED, CONTRACTOR INSTALLED.
- OFI - OWNER FURNISHED, OWNER INSTALLED
- OSP = OUTSIDE PLANT
- PP = PATCH PANEL
- REN = RENOVATION
- RM = ROOM
- SM = SINGLEMODE
- TV = TELEVISION
- WP = WEATHERPROOF



Orange County Government

Orange County Sheriff's Office  
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SYMBOL LEGEND - SYSTEMS

SCALE: AS INDICATED

DRAWN BY: DW

CHECK BY: LJT

DATE: 09/15/2016

PROJECT NUMBER: 15012-0011

T001

SYMBOL LEGEND - SYSTEMS

1 T001

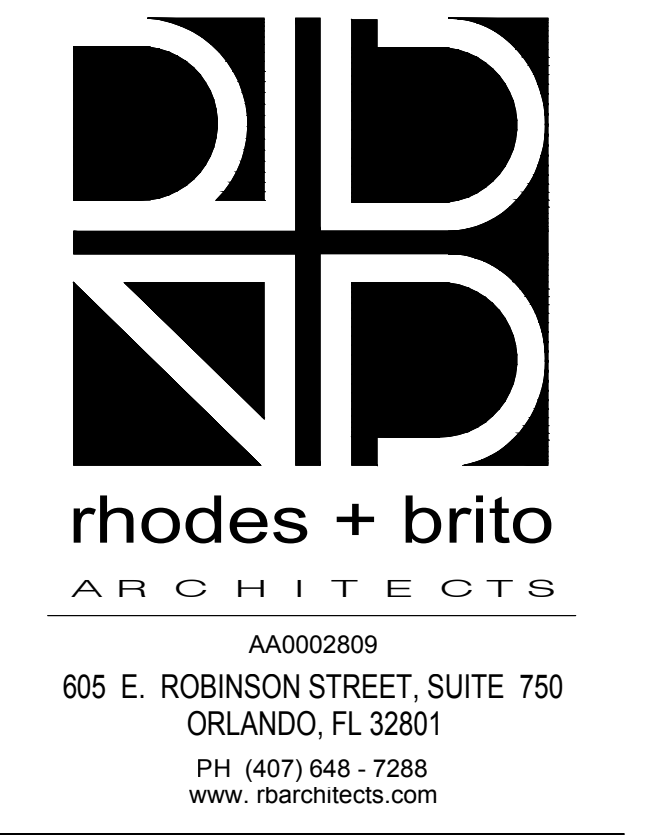
SCALE: NTS





**NOTES**

- GENERAL NOTES**
- REFER TO TELECOMMUNICATIONS GENERAL NOTES ON SHEET T001.
  - CONTRACTOR SHALL INSTALL VOICE/DATA CABLING (E.G. CATEGORY 6 CABLING) SUCH THAT THE TIA-100 METER RULE IS NOT VIOLATED. THE CONTRACTOR SHALL COORDINATE ROUTING OF CABLE WITH OTHER SYSTEMS AND EQUIPMENT TO ENSURE THAT THE HORIZONTAL PORTION OF THE CABLE PLANT (FROM PATCH PANEL TO WORKSTATION OUTLET) DOES NOT EXCEED 295 FEET TOTAL LENGTH. CONTRACTOR SHALL PROVIDE INFORMATION AS PART OF HIS SUBMITTALS TO SHOW THAT THIS COORDINATION HAS BEEN ACCOMPLISHED. CONTRACTOR SHALL TEST THE CABLE PLANT AFTER INSTALLATION TO VERIFY CABLES DO NOT EXCEED THE ALLOWABLE LENGTH AND SHALL SUBMIT TEST RESULTS FOR REVIEW BY THE DESIGNER. ANY CABLES SHOWN BY TESTING TO EXCEED THE ALLOWABLE LENGTH SHALL BE REPLACED BY THE CONTRACTOR AS HIS EXPENSE. REFER TO SPECIFICATIONS.
  - CONTRACTOR SHALL CIRCUIT FIRE ALARM SYSTEM DEVICES AS REQUIRED BY THE EQUIPMENT MANUFACTURER AND CODE AND SHALL INCLUDE THAT INFORMATION IN HIS SHOP DRAWINGS. SHOP DRAWINGS SHALL SHOW LOCATIONS FOR END-OF-LINE (EOL) RESISTERS AS CONTRACTOR INTENDS TO INSTALL THEM.
- HEX NOTES**
- PROVIDE AND INSTALL ONE (1) 2" CONDUIT WITH ONE (1) 12-STRAND MULTIMODE FIBER OPTIC CABLE AND FOUR (4) SHIELDED CATEGORY 6 CABLES FOR AUDIO/VIDEO SYSTEM. COORDINATE WITH OWNER FOR TERMINATION OF CABLES IN IDF (2034).
  - PROVIDE AND INSTALL ONE (1) 2" CONDUIT WITH PULL STRING FOR VOICE/DATA CABLE TO BE INSTALLED BY OWNER'S VENDOR.
  - EXISTING SILENT KNIGHT FIRE ALARM EQUIPMENT. REWORK AS NECESSARY. REFER TO SPECS.



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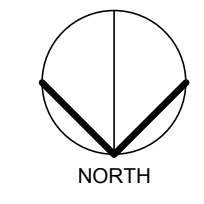
**OVERALL 1ST FLR PLAN (PARTIAL) - SYSTEMS**

SCALE: AS INDICATED  
DRAWN BY: DW  
CHECK BY: LJT  
DATE: 09/15/2016  
PROJECT NUMBER: 15012-0011

**T101**

**1 OVERALL 1ST FLOOR PLAN (PARTIAL) - SYSTEMS**  
T101

SCALE: 3/32" = 1'-0"







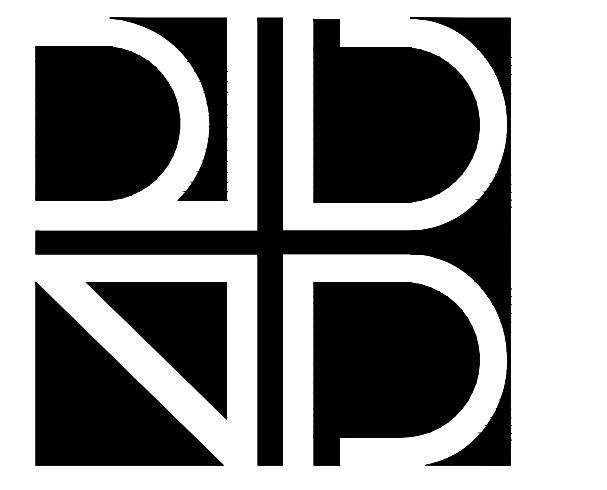
**NOTES**

**GENERAL NOTES**

1. REFER TO TELECOMMUNICATIONS GENERAL NOTES ON SHEET T001.
2. CONTRACTOR SHALL INSTALL VOICE/DATA CABLING (E.G. CATEGORY 6 CABLING) SUCH THAT THE TIA-100 METER RULE IS NOT VIOLATED. THE CONTRACTOR SHALL COORDINATE ROUTING OF CABLE WITH OTHER SYSTEMS AND EQUIPMENT TO ENSURE THAT THE HORIZONTAL PORTION OF THE CABLE PLANT (FROM PATCH PANEL TO WORKSTATION OUTLET) DOES NOT EXCEED 295 FEET TOTAL LENGTH. CONTRACTOR SHALL PROVIDE INFORMATION AS PART OF HIS SUBMITTALS TO SHOW THAT THIS COORDINATION HAS BEEN ACCOMPLISHED. CONTRACTOR SHALL TEST THE CABLE PLANT AFTER INSTALLATION TO VERIFY CABLES DO NOT EXCEED THE ALLOWABLE LENGTH AND SHALL SUBMIT TEST RESULTS FOR REVIEW BY THE DESIGNER. ANY CABLES SHOWN BY TESTING TO EXCEED THE ALLOWABLE LENGTH SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. REFER TO SPECIFICATIONS.
3. CONTRACTOR SHALL CIRCUIT FIRE ALARM SYSTEM DEVICES AS REQUIRED BY THE EQUIPMENT MANUFACTURER AND CODE AND SHALL INCLUDE THAT INFORMATION IN HIS SHOP DRAWINGS. SHOP DRAWINGS SHALL SHOW LOCATIONS FOR END-OF-LINE (EOL) RESISTERS AS CONTRACTOR INTENDS TO INSTALL THEM.

**HEX NOTES**

- ① PROVIDE AND INSTALL FIBER OPTIC PANEL IN EXISTING EQUIPMENT RACK IN IDF (2034) FOR TERMINATION OF NEW FIBER OPTIC CABLE TO IDF (116). COORDINATE WITH OWNER PRIOR TO ROUGH-IN.



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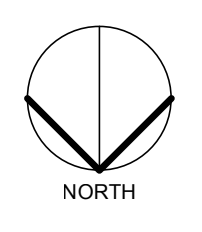
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**OVERALL 2ND FLR PLAN (PARTIAL)  
- SYSTEMS**

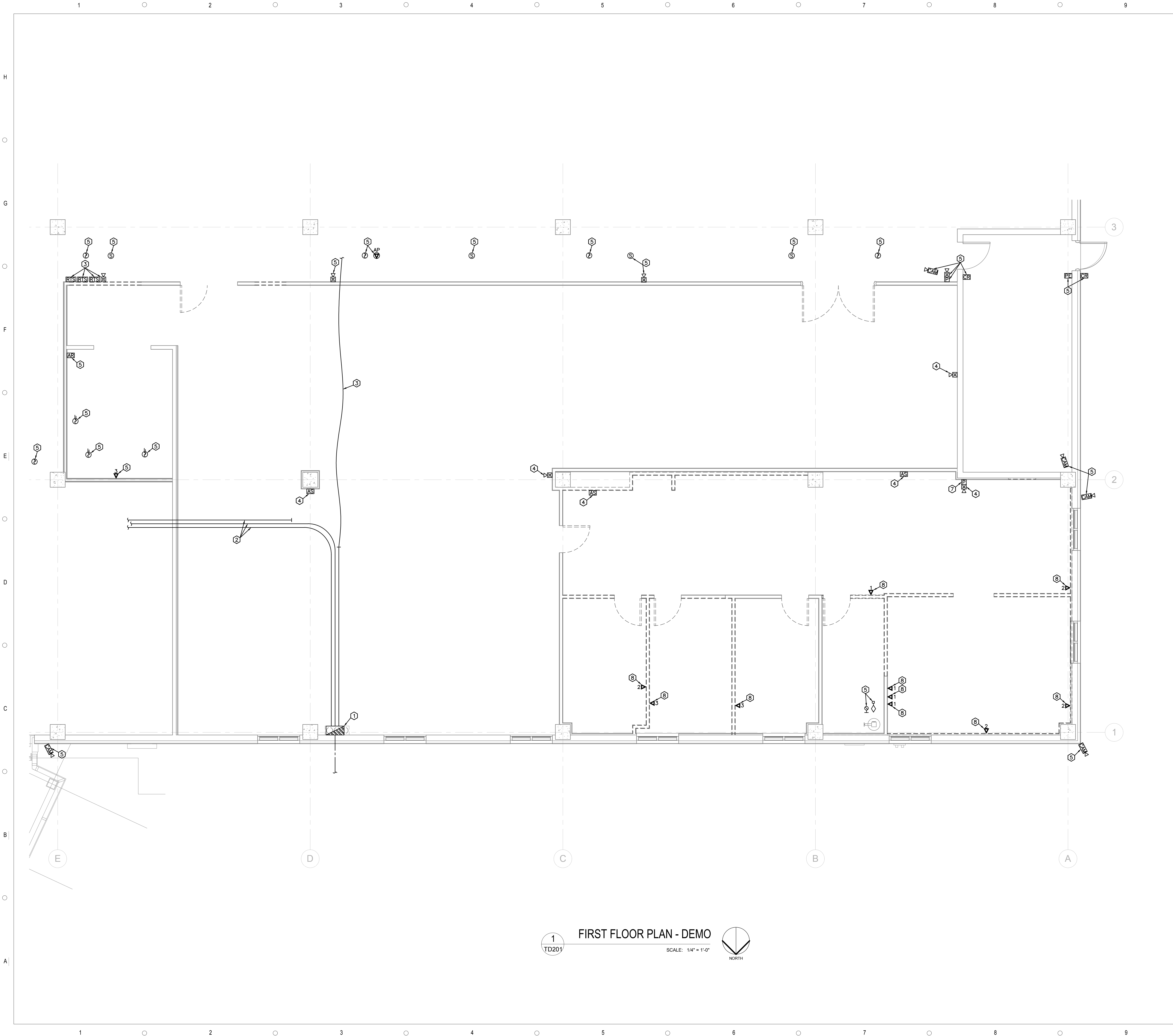
SCALE: AS INDICATED  
DRAWN BY: DW  
CHECK BY: LJT  
DATE: 09/15/2016  
PROJECT NUMBER: 15012-0011

**T102**

**1 OVERALL 2ND FLR PLAN (PARTIAL) - SYSTEMS**  
SCALE: 3/32" = 1'-0"







1  
TD201

**FIRST FLOOR PLAN - DEMO**

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

NORTH

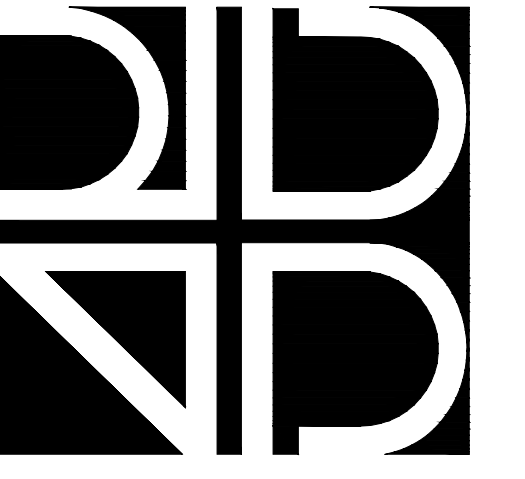
**NOTES**

**GENERAL NOTES**

1. REFER TO TELECOMMUNICATIONS GENERAL NOTES ON SHEET T001.
2. CONTRACTOR SHALL INSTALL VOICE/DATA CABLING (E.G. CATEGORY 6 CABLING) SUCH THAT THE TIA 100 METER RULE IS NOT VIOLATED. THE CONTRACTOR SHALL COORDINATE ROUTING OF CABLE WITH OTHER SYSTEMS AND EQUIPMENT TO ENSURE THAT THE HORIZONTAL PORTION OF THE CABLE PLANT (FROM PATCH PANEL TO WORKSTATION OUTLET) DOES NOT EXCEED 295 FEET TOTAL LENGTH. CONTRACTOR SHALL PROVIDE INFORMATION AS PART OF HIS SUBMITTALS TO SHOW THAT THIS COORDINATION HAS BEEN ACCOMPLISHED. CONTRACTOR SHALL TEST THE CABLE PLANT AFTER INSTALLATION TO VERIFY CABLES DO NOT EXCEED THE ALLOWABLE LENGTH AND SHALL SUBMIT TEST RESULTS FOR REVIEW BY THE DESIGNER. ANY CABLES SHOWN BY TESTING TO EXCEED THE ALLOWABLE LENGTH SHALL BE REPLACED BY THE CONTRACTOR AS HIS EXPENSE. REFER TO SPECIFICATIONS.
3. CONTRACTOR SHALL CIRCUIT FIRE ALARM SYSTEM DEVICES AS REQUIRED BY THE EQUIPMENT MANUFACTURER AND CODE AND SHALL INCLUDE THAT INFORMATION IN HIS SHOP DRAWINGS. SHOP DRAWINGS SHALL SHOW LOCATIONS FOR END-OF-LINE (EOL) RESISTERS AS CONTRACTOR INTENDS TO INSTALL THEM.

**HEX NOTES**

- ① EXISTING WALL MOUNTED PULL BOX FOR SERVICE ENTRANCE CABLES. TO REMAIN.
- ② EXISTING 4" CONDUITS EXTENDED INTO OVERHEAD FROM PULL BOX. TO REMAIN.
- ③ EXISTING PREWIRED CABLE FOR VIDEO SERVICES EXTENDED TO COMM ROOM ON 2ND FLOOR. CONTRACTOR SHALL COORDINATE WITH OWNER TO DISCONNECT CABLE, PULL INTO SPACE, EXTEND EXISTING CONDUIT TO ADJACENT EXISTING CORRIDOR, AND REINSTALL/RECONNECT CABLE TO ORIGINAL LOCATION.
- ④ EXISTING DEVICE TO BE REMOVED AND REINSTALLED. REFER TO RENOVATION DRAWINGS. REWORK EXISTING CIRCUITS AS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL EXTENSION OF THE EXISTING SYSTEM.
- ⑤ EXISTING DEVICE TO REMAIN.
- ⑥ EXISTING DEVICE TO BE REMOVED AND REINSTALLED DUE TO ARCHITECTURAL MODIFICATIONS IN THE AREA. REFER TO ARCHITECTURAL DRAWINGS.
- ⑦ EXISTING DEVICE TO BE REMOVED AND TURNED OVER TO OWNER. REWORK CIRCUIT AS NECESSARY.
- ⑧ EXISTING DEVICE TO BE DEMOLISHED COMPLETE TO SOURCE.



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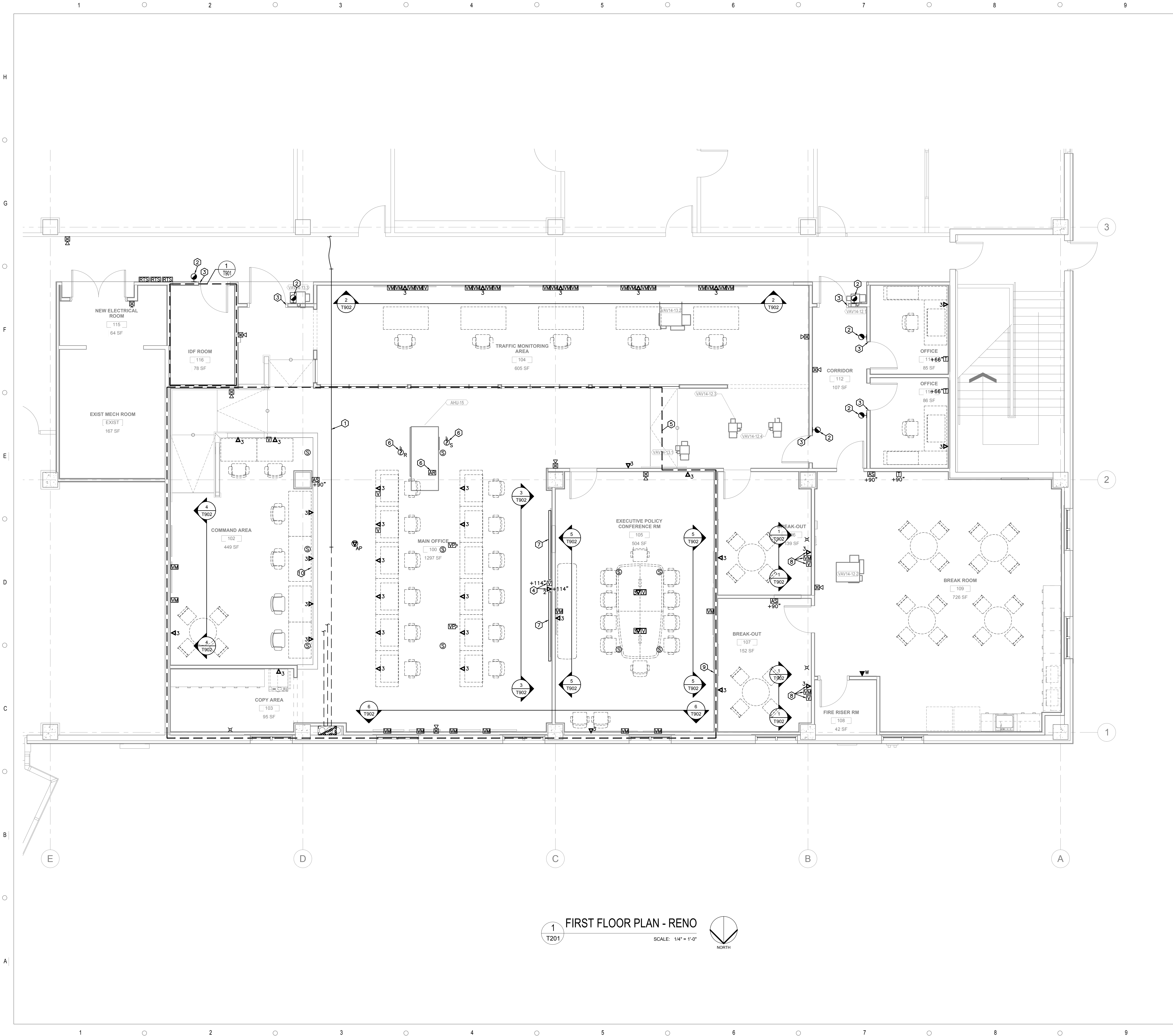
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FIRST FLOOR DEMO PLAN

SCALE: AS INDICATED  
DRAWN BY: DW  
CHECK BY: LJT  
DATE: 09/15/2016  
PROJECT NUMBER: 15012-0011

**TD201**





1  
T201  
FIRST FLOOR PLAN - RENO  
SCALE: 1/4" = 1'-0"  
NORTH

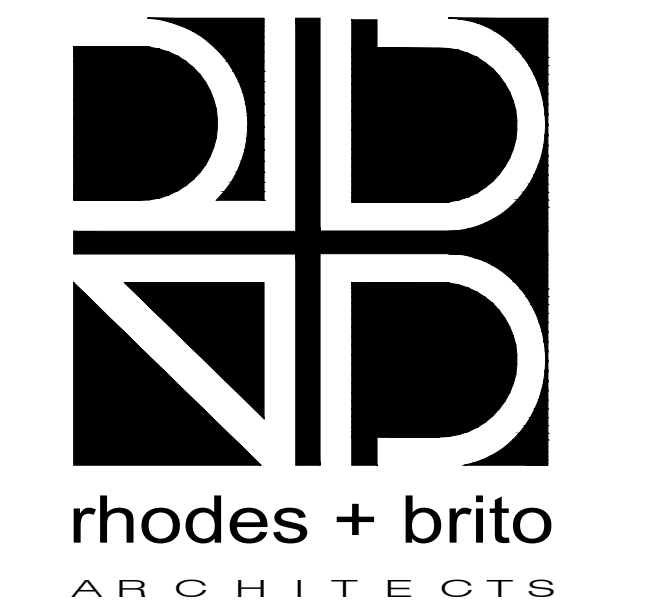
NOTES

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HEX NOTES

- ONE (1) NEW 4" CONDUIT WITH EXISTING CABLE. REFER TO DEMO PLANS.
- OUTLET BOX INSTALLED AT 42" A.F.F. TO TOP FOR OWNER FURNISHED AND INSTALLED ACCESS CONTROL SYSTEM CARD READER. INSTALL ONE (1) 3/4" CONDUIT FROM BOX TO ABOVE CEILING SPACE.
- INSTALL ONE (1) 1/2" FLEXIBLE CONDUIT FROM ABOVE CEILING SPACE INTO DOOR FRAME ON DOOR STRIKE SIDE FOR FUTURE CONNECTION OF OWNER'S ACCESS CONTROL SYSTEM TO DOOR STRIKE.
- OUTLET BOX AND DATA OUTLET FOR FUTURE WALL MOUNTED VIDEO CONFERENCING CAMERA.
- CABING FOR ALL FLOOR AND WALL OUTLETS AND DEVICES IN THIS AREA SHALL BE RUN BELOW ACCESS FLOOR SYSTEM. COORDINATE ROUTING WITH POWER AS NECESSARY TO AVOID CONFLICTS.
- DEVICES INSTALLED ABOVE CEILING. REFER TO MECHANICAL DRAWINGS.
- WALL MOUNTED MANUAL PROJECTION SCREEN. REFER TO DETAILS. REFER TO SPECS.
- WALL MOUNTED VIDEO MONITOR WITH INPUT FROM AUDIO/VIDEO SYSTEM AND LOCAL HDMI/AUDIO INPUT PLATE. REFER TO DETAILS.
- PROVIDE AND INSTALL DESKTOP TOUCH SCREEN FOR AUDIO/VIDEO SYSTEM AT THIS LOCATION. REFER TO DETAILS. REFER TO SPECS.
- PROVIDE AND INSTALL WALL MOUNTED TOUCH SCREEN FOR AUDIO/VIDEO SYSTEM AT THIS LOCATION. REFER TO DETAILS. REFER TO SPECS.



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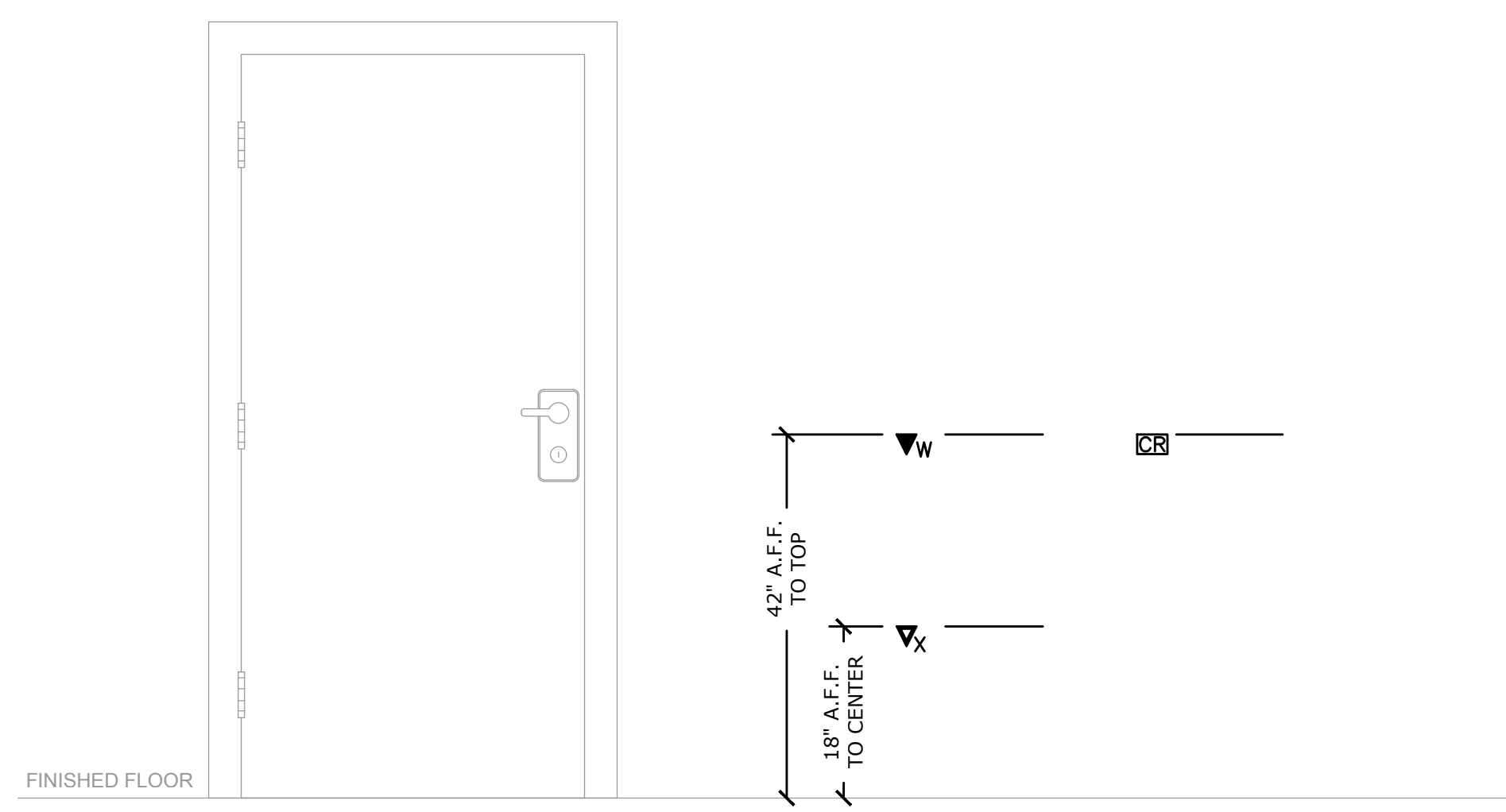
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FIRST FLOOR PLAN

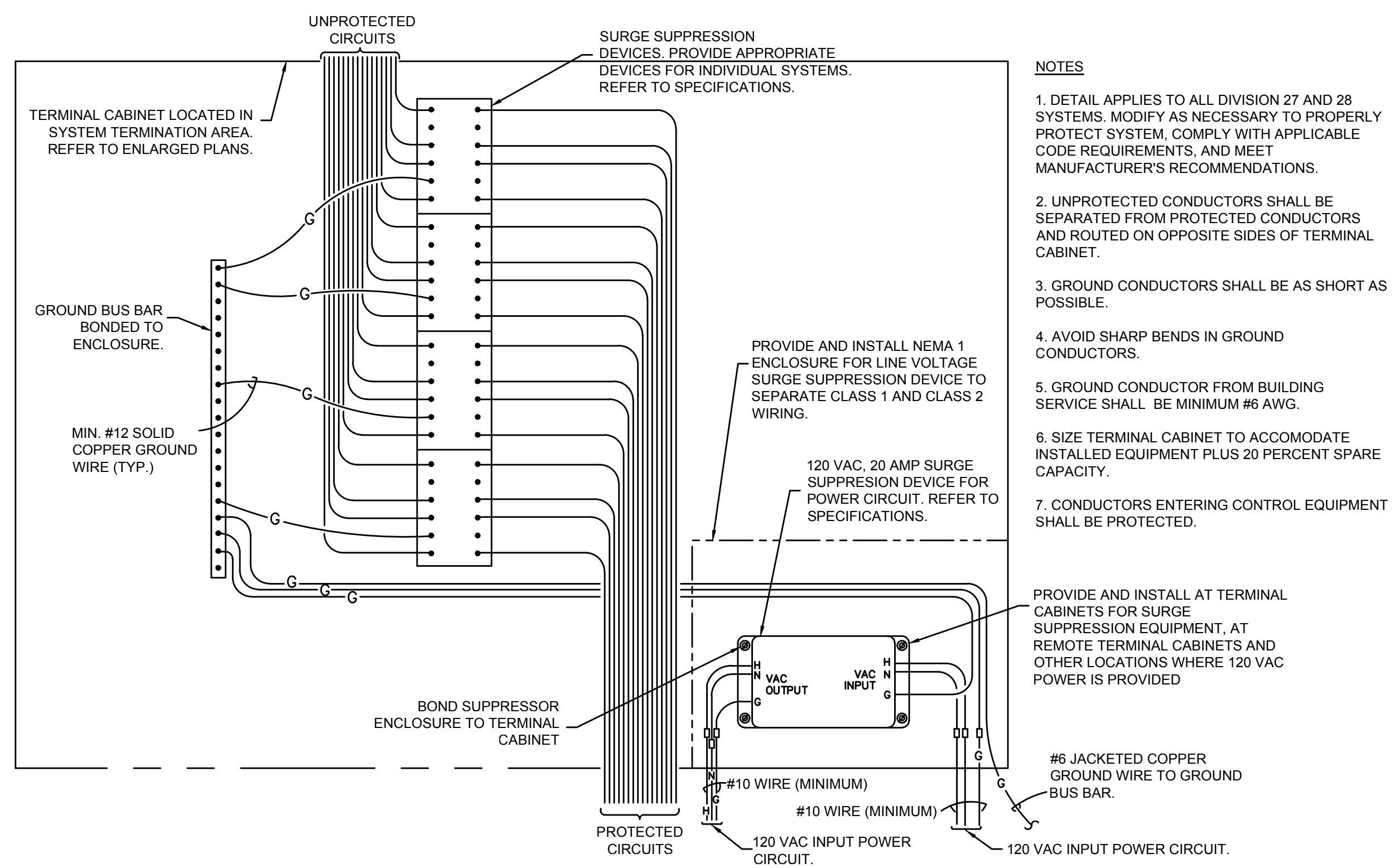
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T201

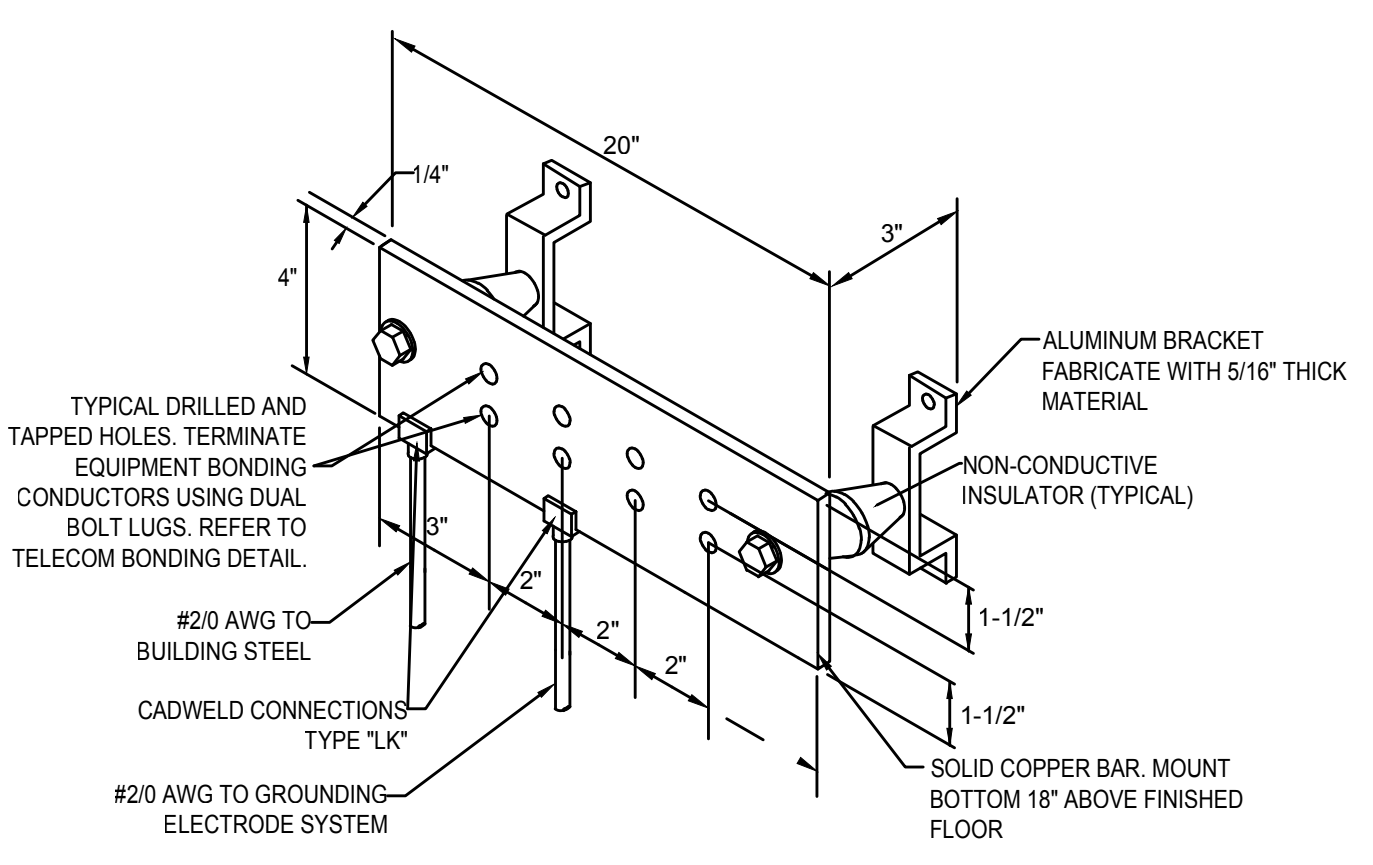




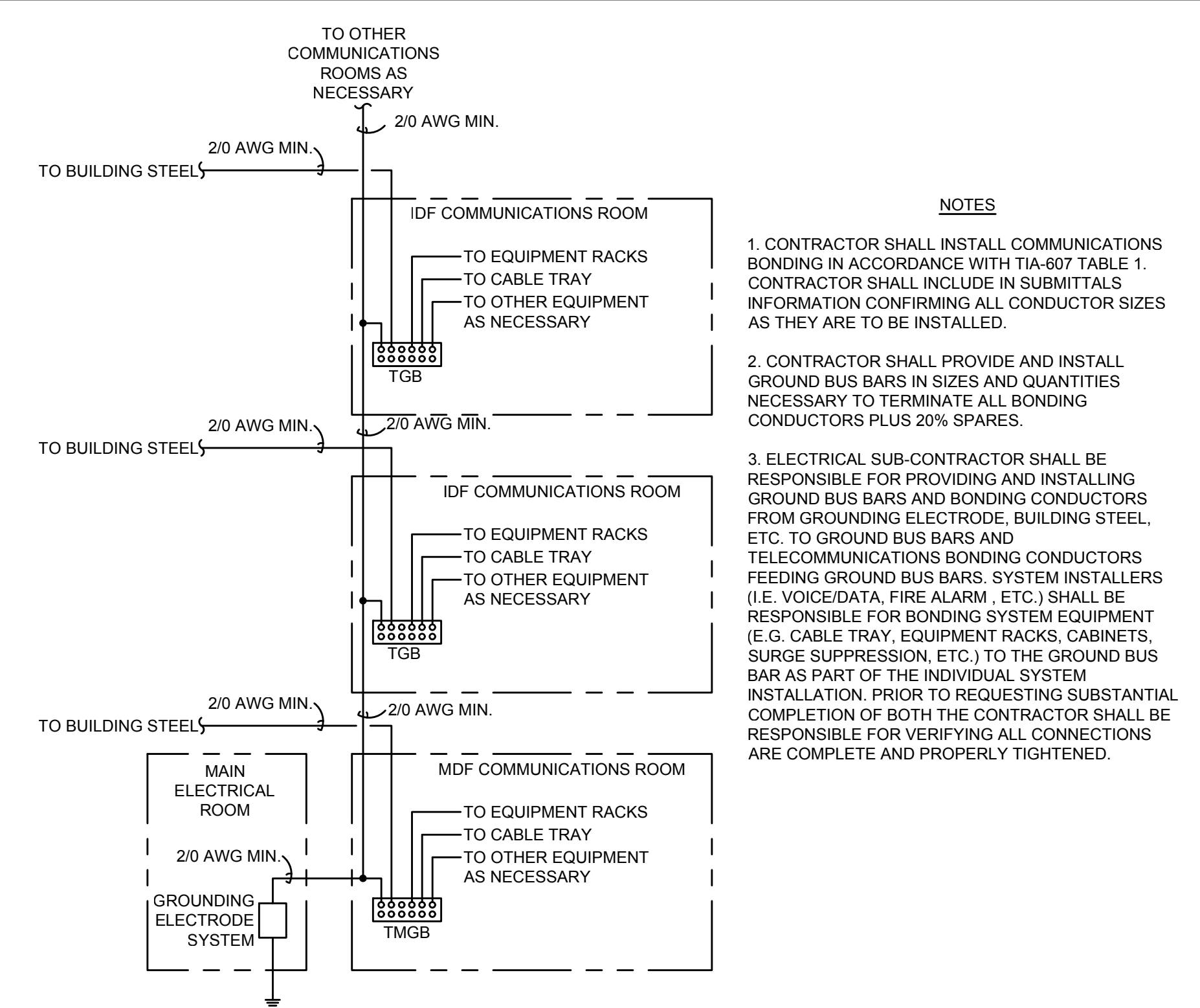
1 27 05 00 - DEVICE ELEVATIONS DETAIL  
T901 SCALE: NTS



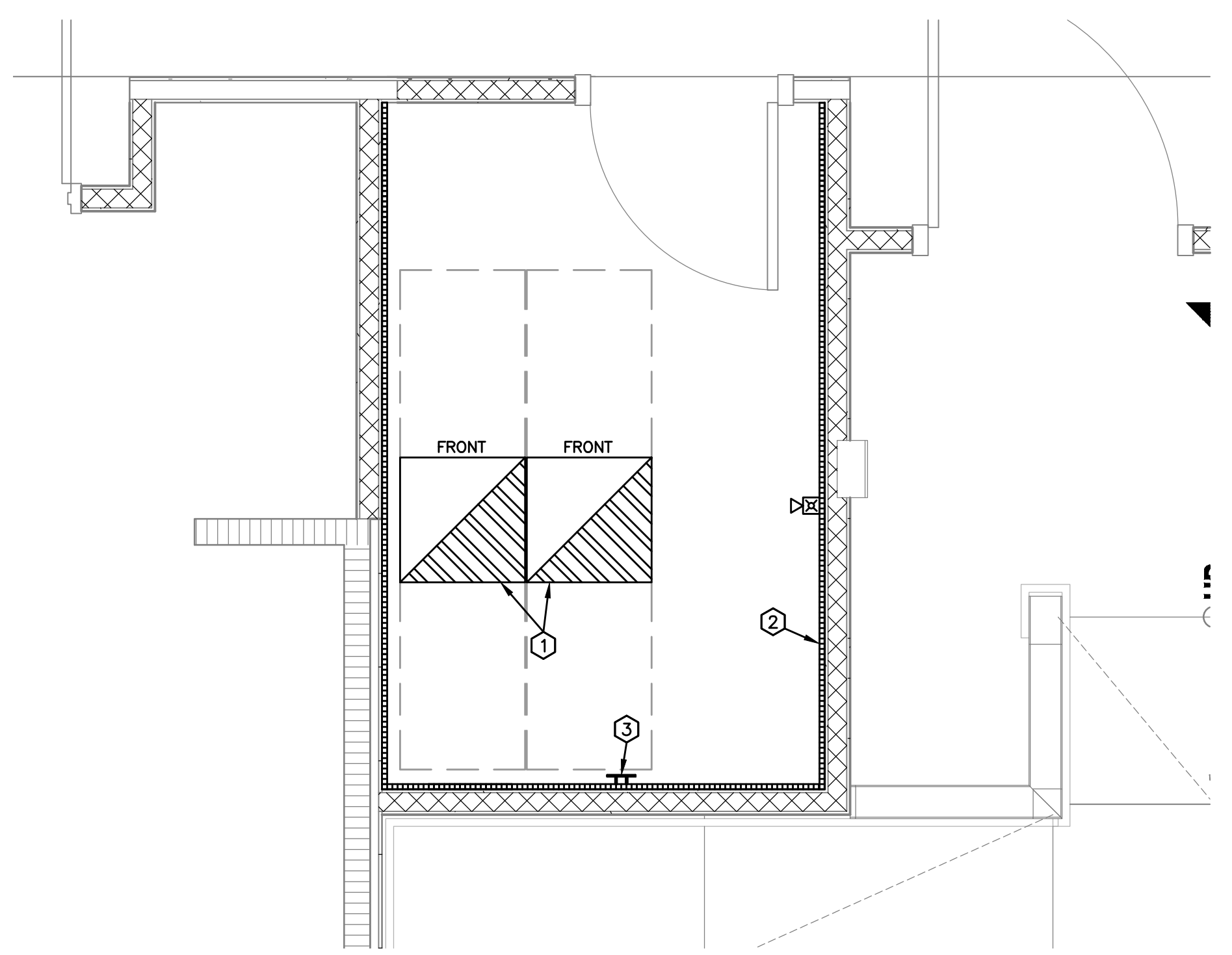
2 27 05 00 - SURGE SUPPRESSION DETAIL  
T901 SCALE: NTS



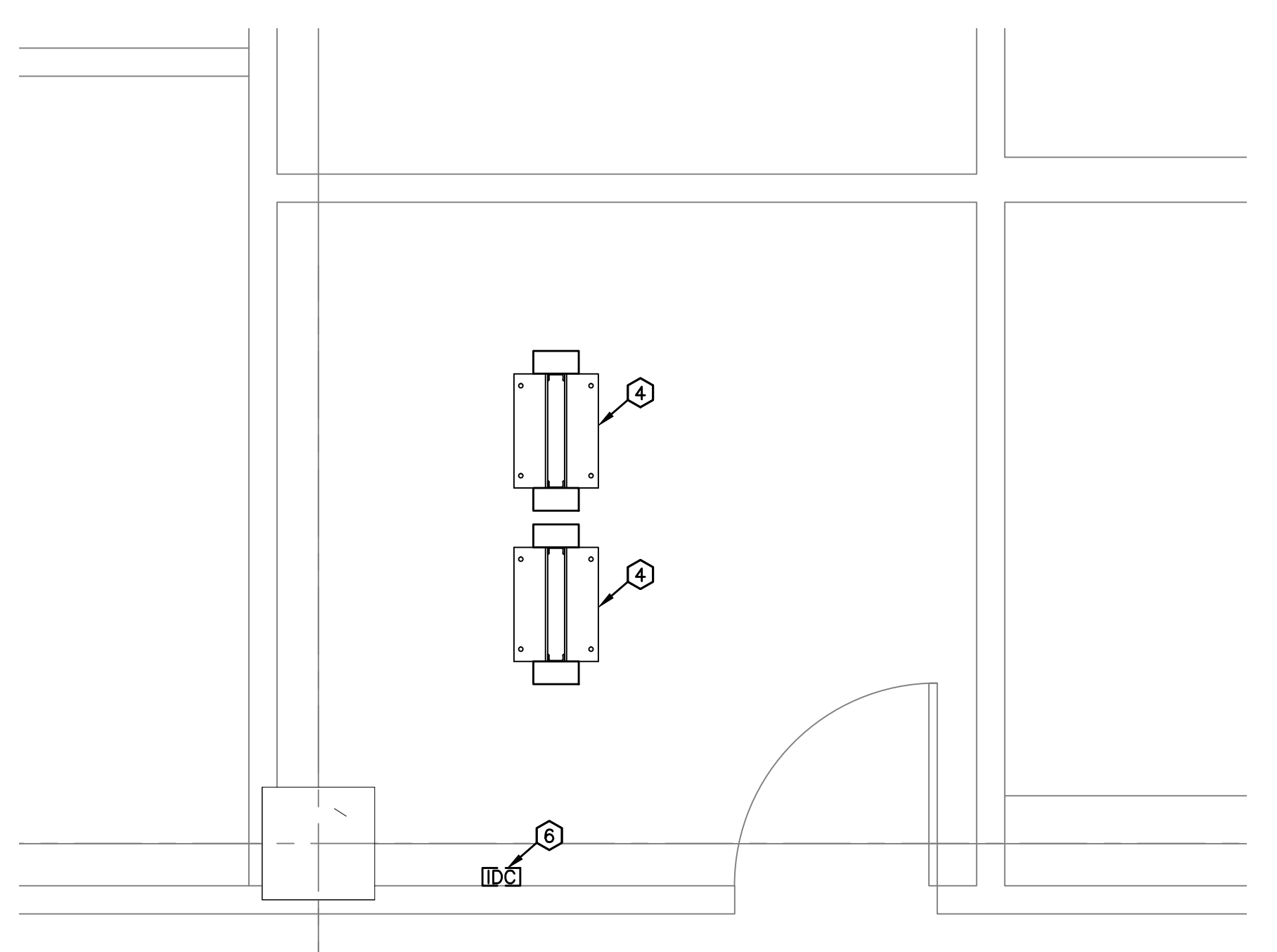
3 27 10 00 - GROUND BUS BAR DETAIL  
T901 SCALE: NTS



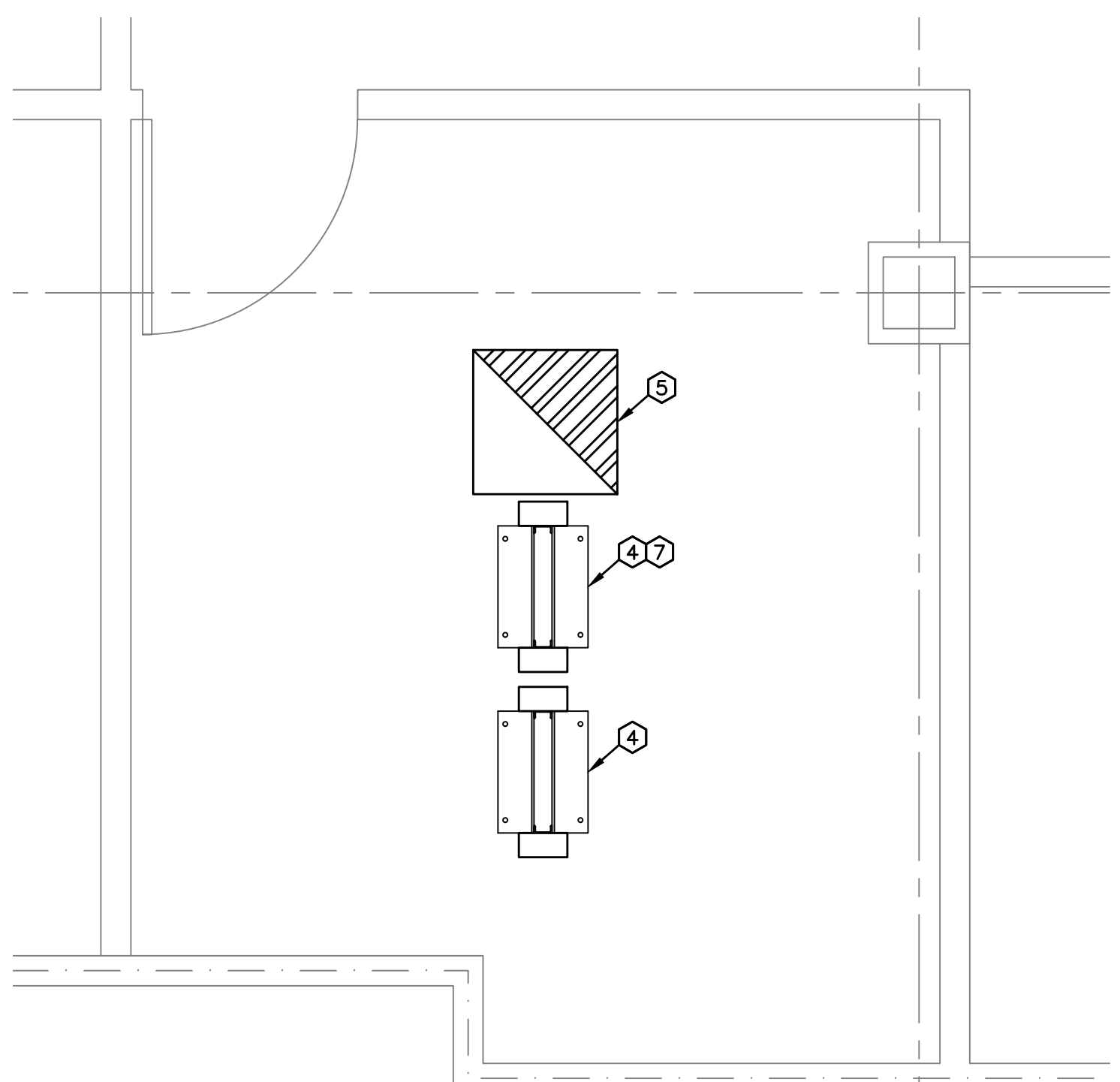
5 27 10 00 - SURGE TELECOM BONDING DETAIL  
T901 SCALE: NTS



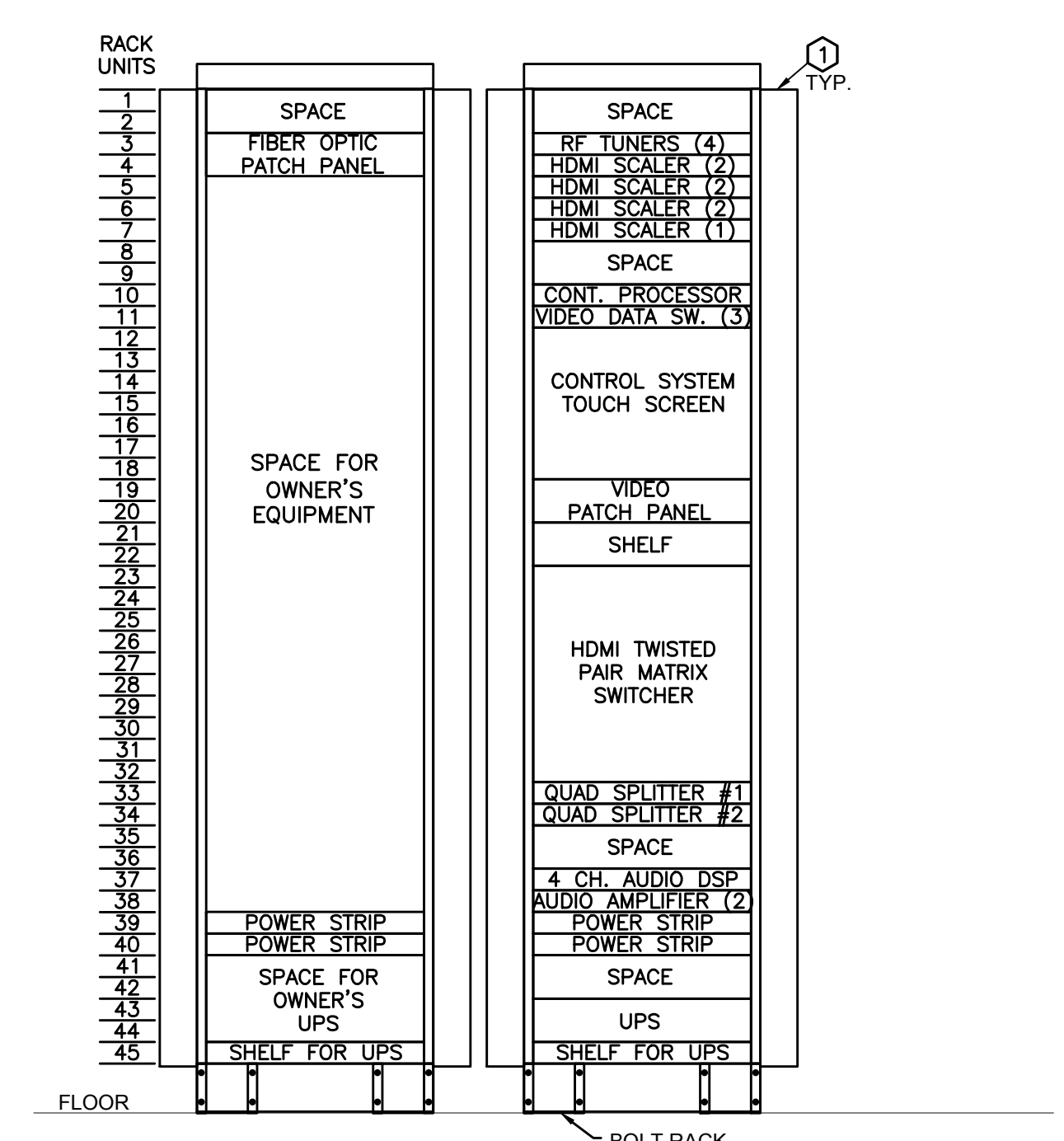
5 IDF ROOM (116) - ENLARGED PLAN  
T901 SCALE: 1/2" = 1'-0"



6 IDF ROOM (1011) - ENLARGED PLAN  
T901 SCALE: 1/2" = 1'-0"



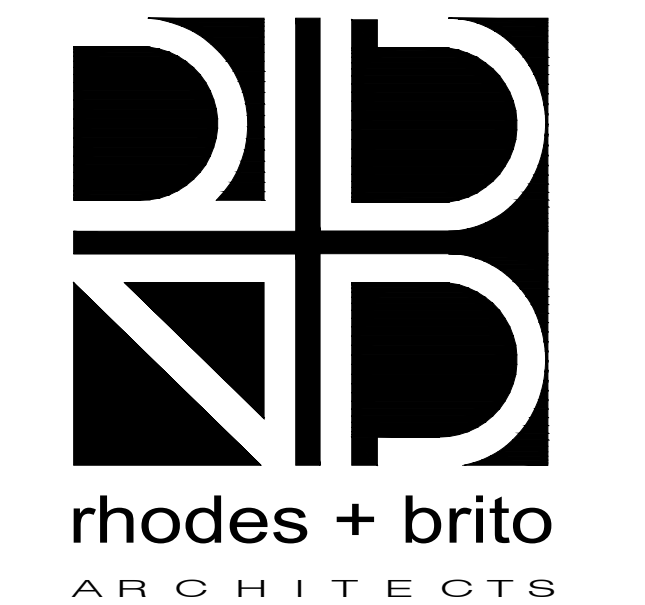
7 IDF ROOM (2034) - ENLARGED PLAN  
T901 SCALE: 1/2" = 1'-0"



8 IDF ROOM (116) - RACK ELEVATION  
T901 SCALE: 3/32" = 1'-0"

NOTES

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- HEX NOTES**
- 4-POST EQUIPMENT RACKS FOR VIDEO SERVICES EQUIPMENT. REFER TO RACK ELEVATION.
  - 5/8 X 4/8 CLASS A/B PLYWOOD BACKBOARD INSTALLED 4" A.F.F. TO BOTTOM. PAINTED WITH GRAY FIRE RETARDANT PAINT. ALL AROUND ROOM AS SHOWN.
  - GROUND BUS BAR.
  - EXISTING DATA RACK. TO REMAIN.
  - EXISTING VIDEO SERVICES EQUIPMENT CABINET. EQUIPMENT WILL BE RELOCATED TO NEW RACK IN IDF (116) BY OWNER. REFER TO RACK ELEVATION.
  - EXISTING INTRUSION DETECTION SYSTEM PANEL. TO REMAIN. HOMERUN AND CONNECT AUDIO SENSORS TO THIS PANEL. REFER TO FLOOR PLANS.
  - PROVIDE AND INSTALL RACK MOUNTED FIBER OPTIC PATCH PANEL FOR TERMINATION OF CABLE FROM IDF (2034) TO IDF (116). COORDINATE WITH OWNER PRIOR TO ROUGH-IN.



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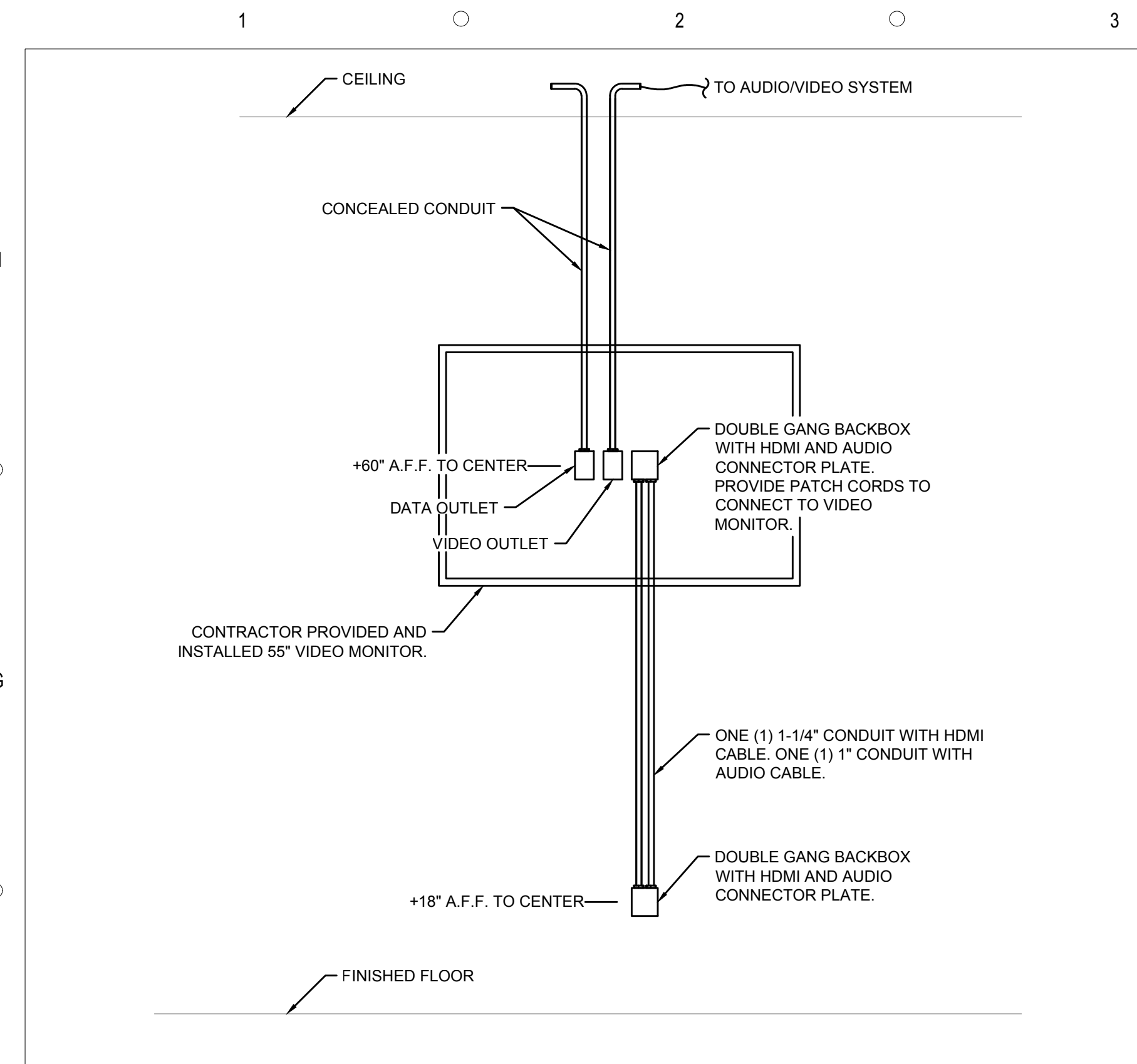
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DETAILS - SYSTEMS

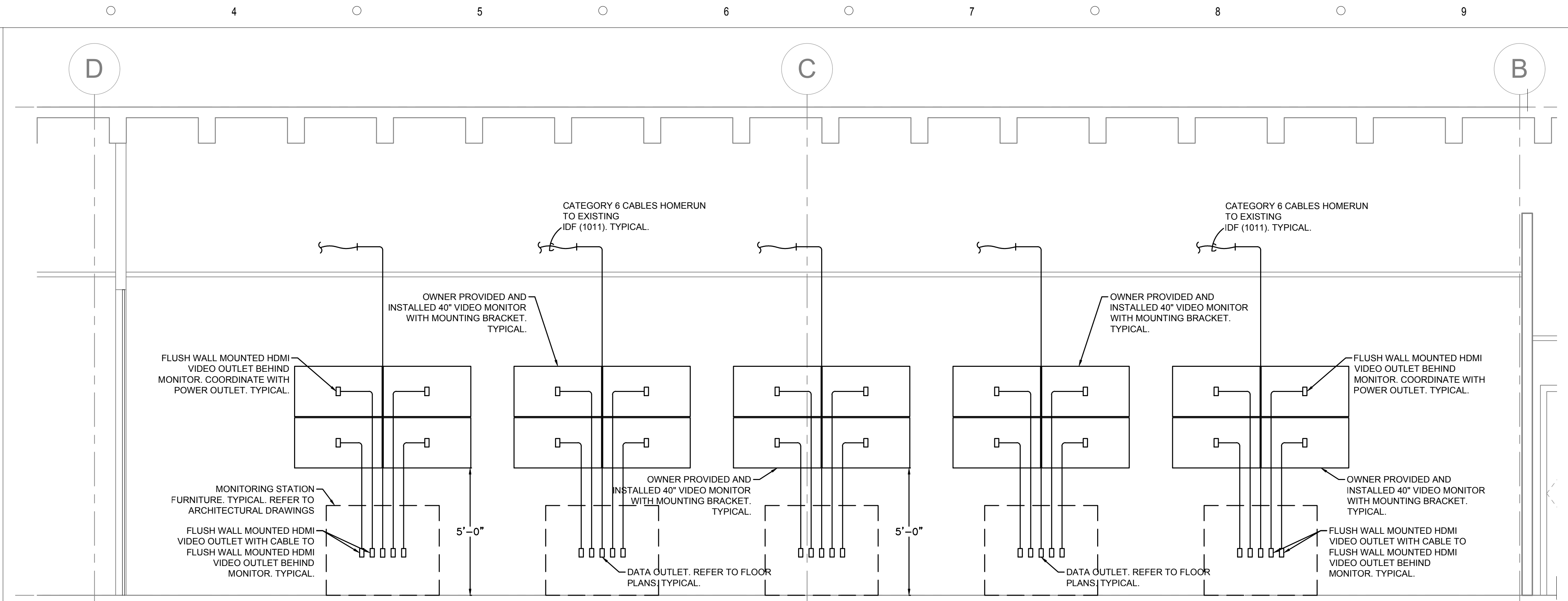
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T901

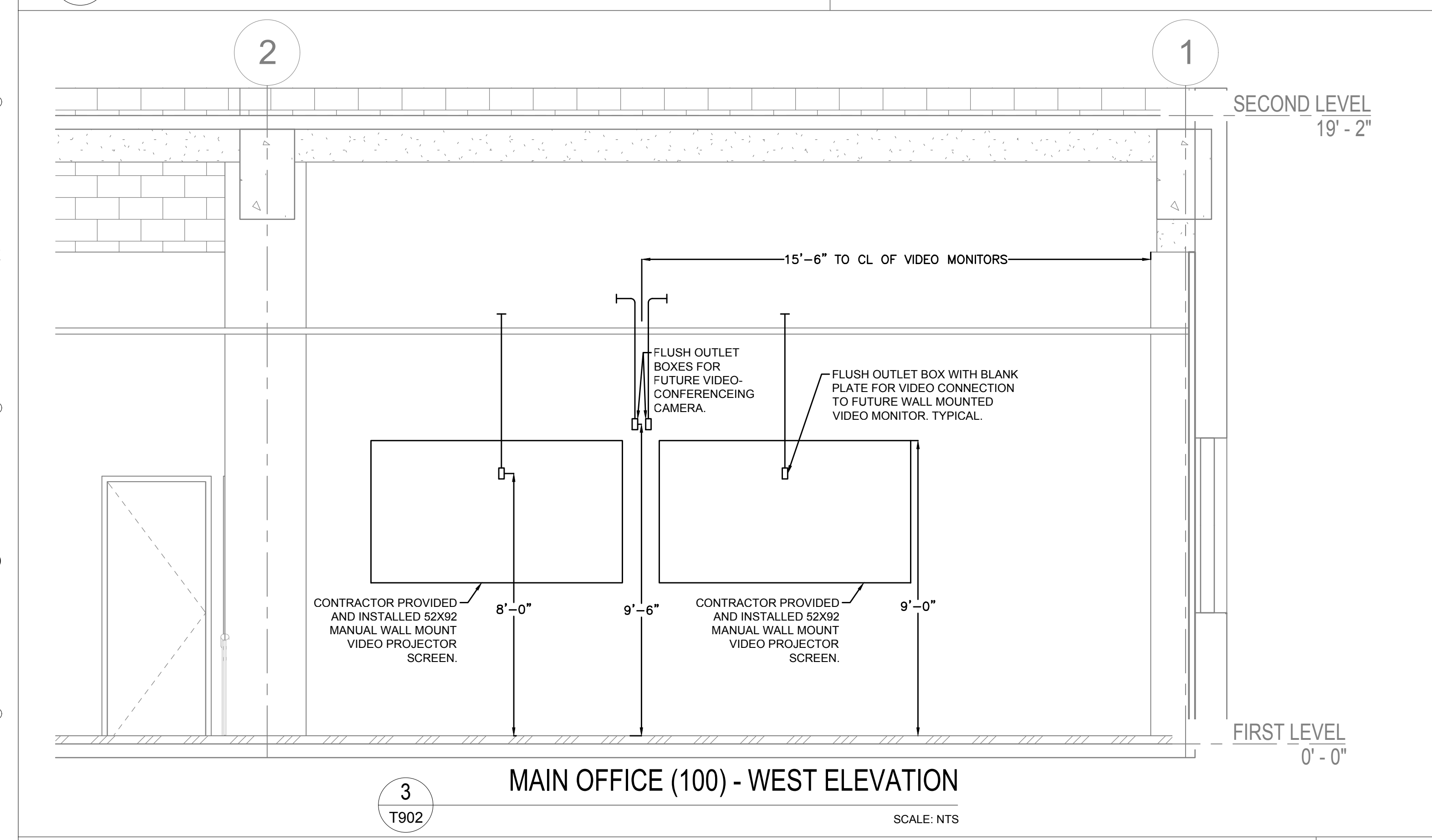




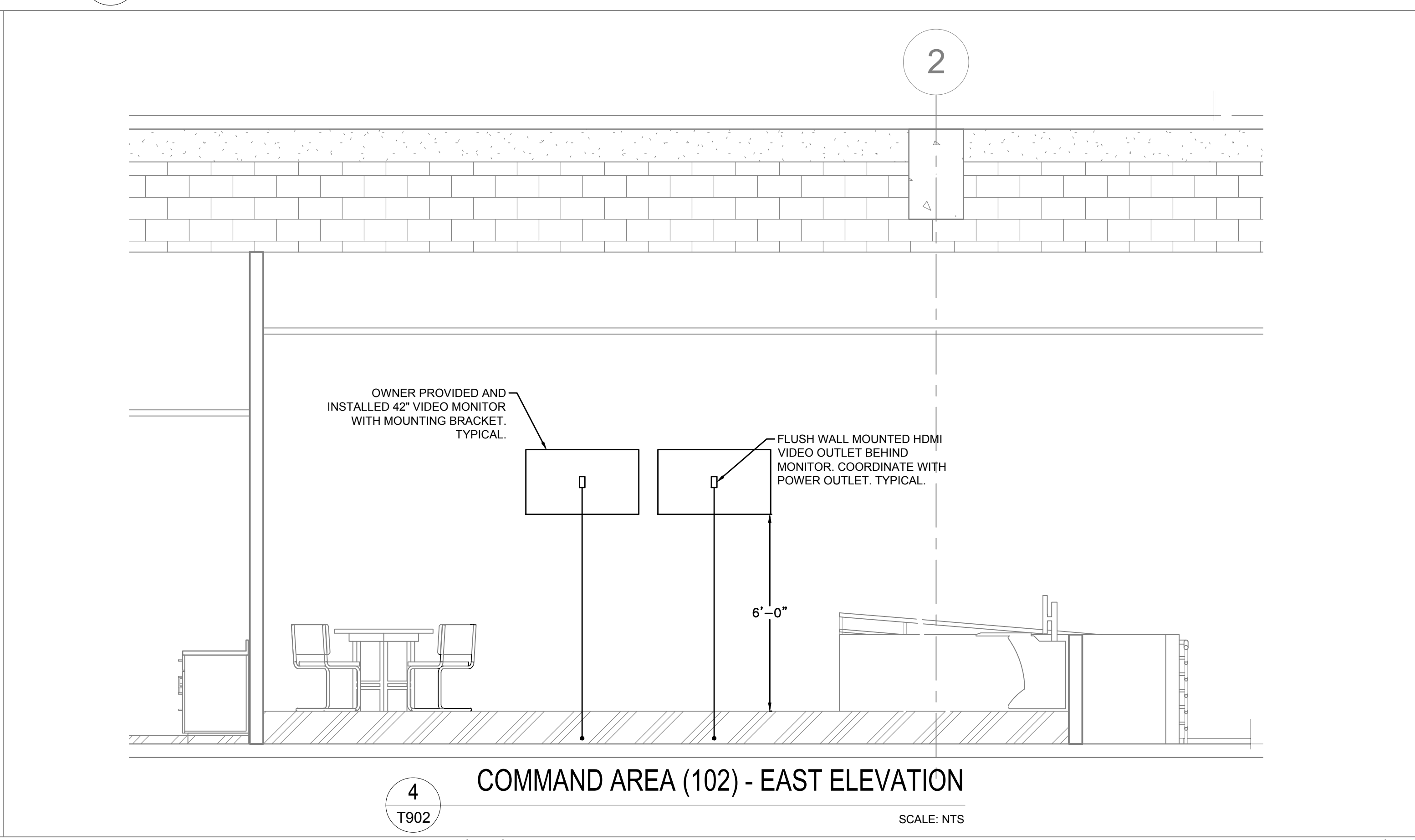
1 BREAK-OUT (106/107) VIDEO MONITOR ELEVATION DETAIL  
SCALE: NTS



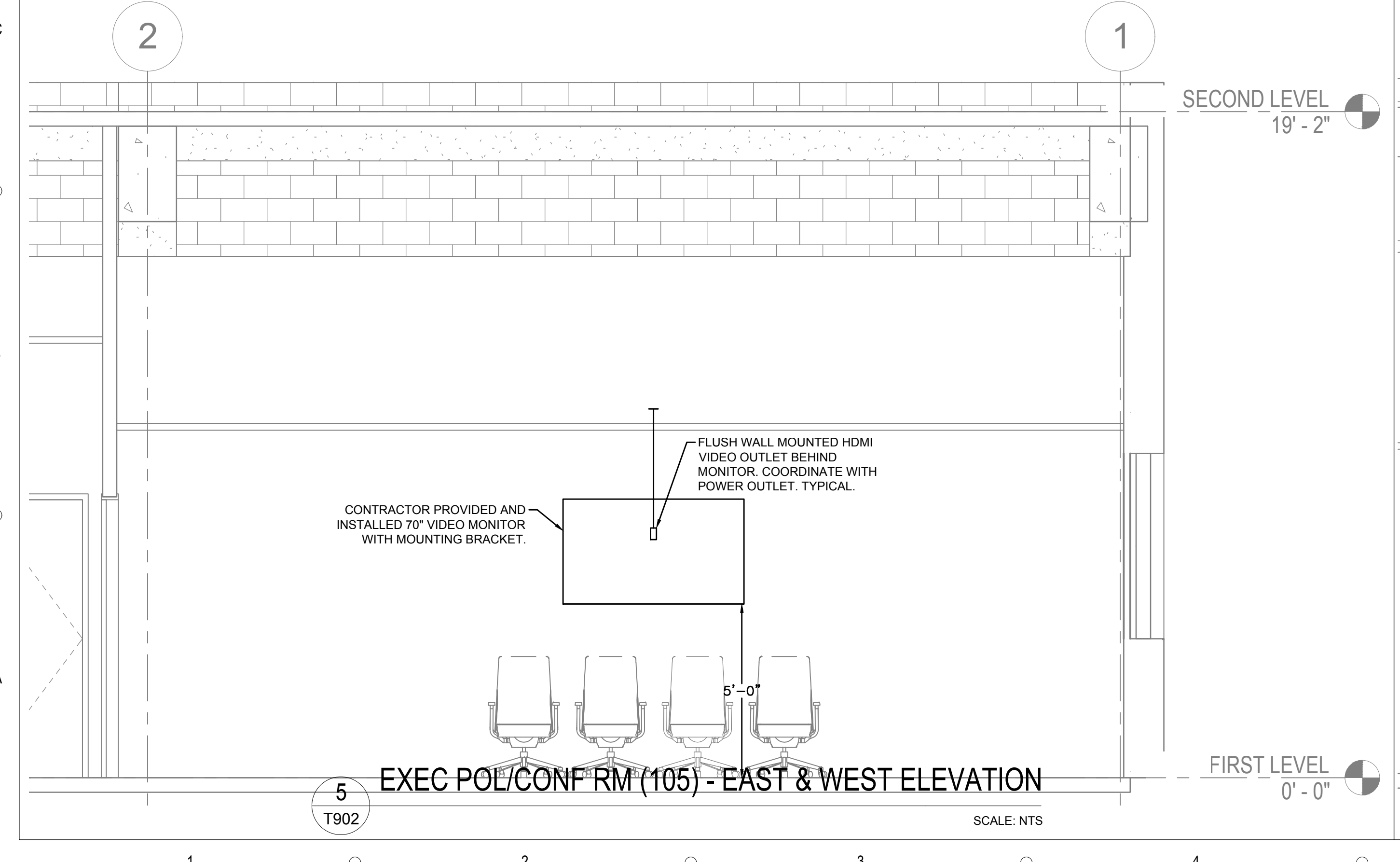
2 TRAFFIC MONITORING AREA (104) - SOUTH ELEVATION  
SCALE: NTS



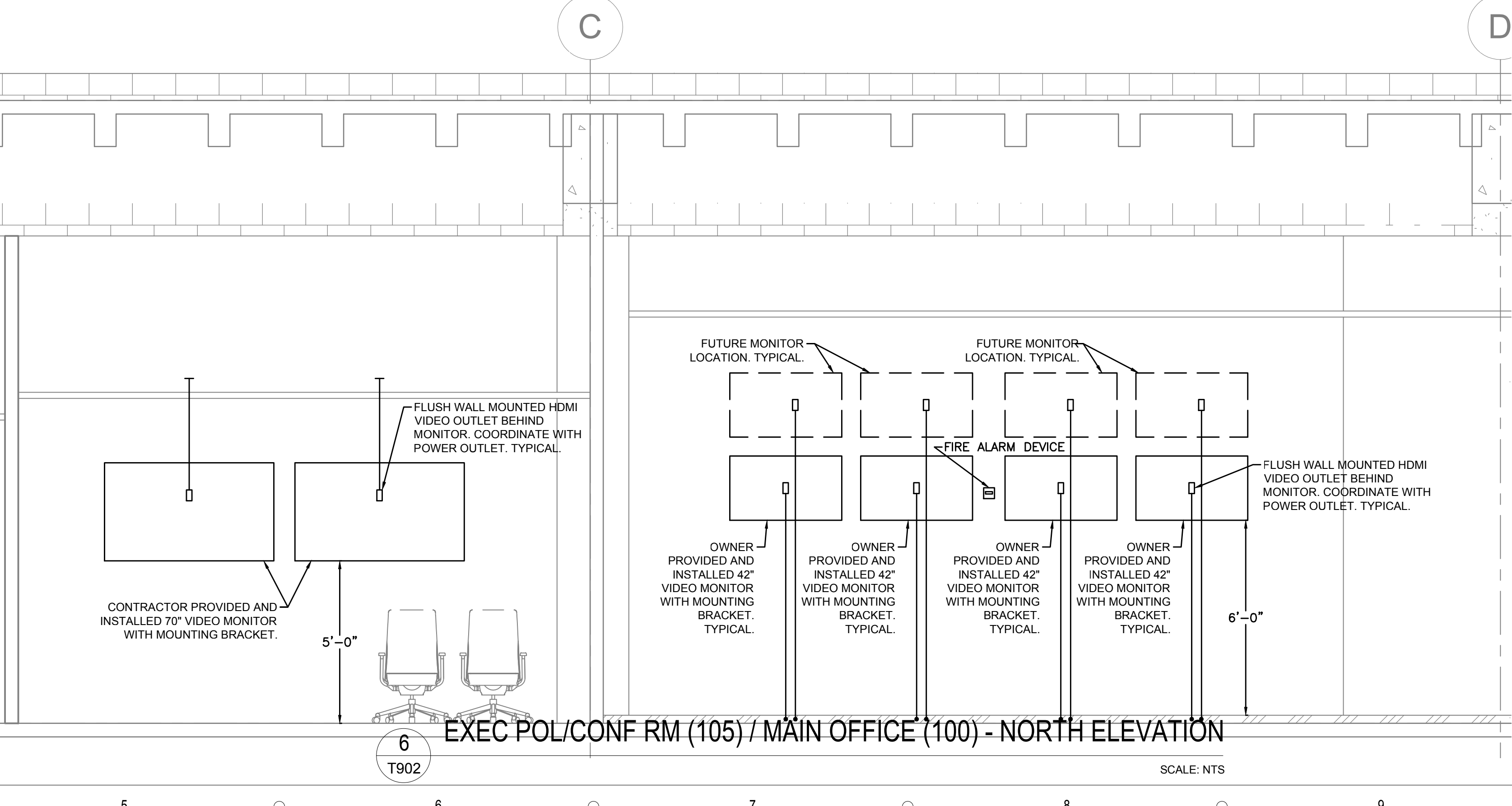
3 MAIN OFFICE (100) - WEST ELEVATION  
SCALE: NTS



4 COMMAND AREA (102) - EAST ELEVATION  
SCALE: NTS



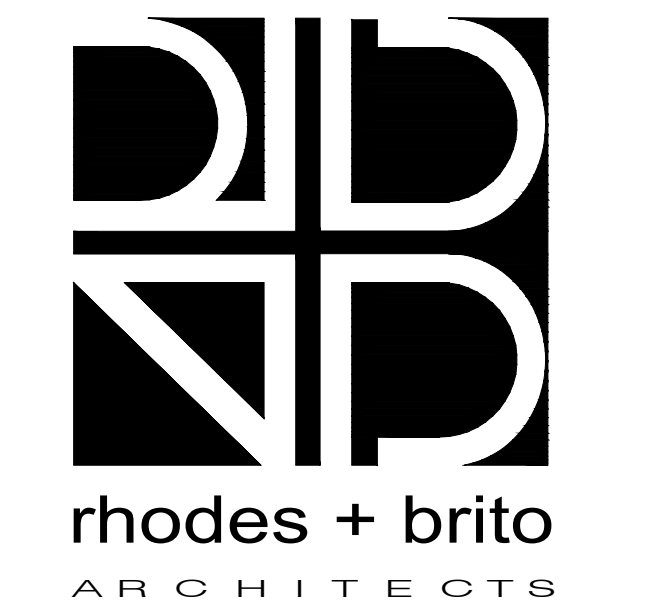
5 EXEC POL/CONF RM (105) - EAST & WEST ELEVATION  
SCALE: NTS



6 EXEC POL/CONF RM (105) / MAIN OFFICE (100) - NORTH ELEVATION  
SCALE: NTS

NOTES

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- HEX NOTES**
- EQUIPMENT RACKS.
  - 8 1/2" X 4" W CLASS A/B PLYWOOD BACKBOARD INSTALLED 4" A.F.F. TO BOTTOM. PAINTED WITH GRAY FIRE RETARDANT PAINT. ALL AROUND ROOM AS SHOWN.
  - GROUND BUS BAR.



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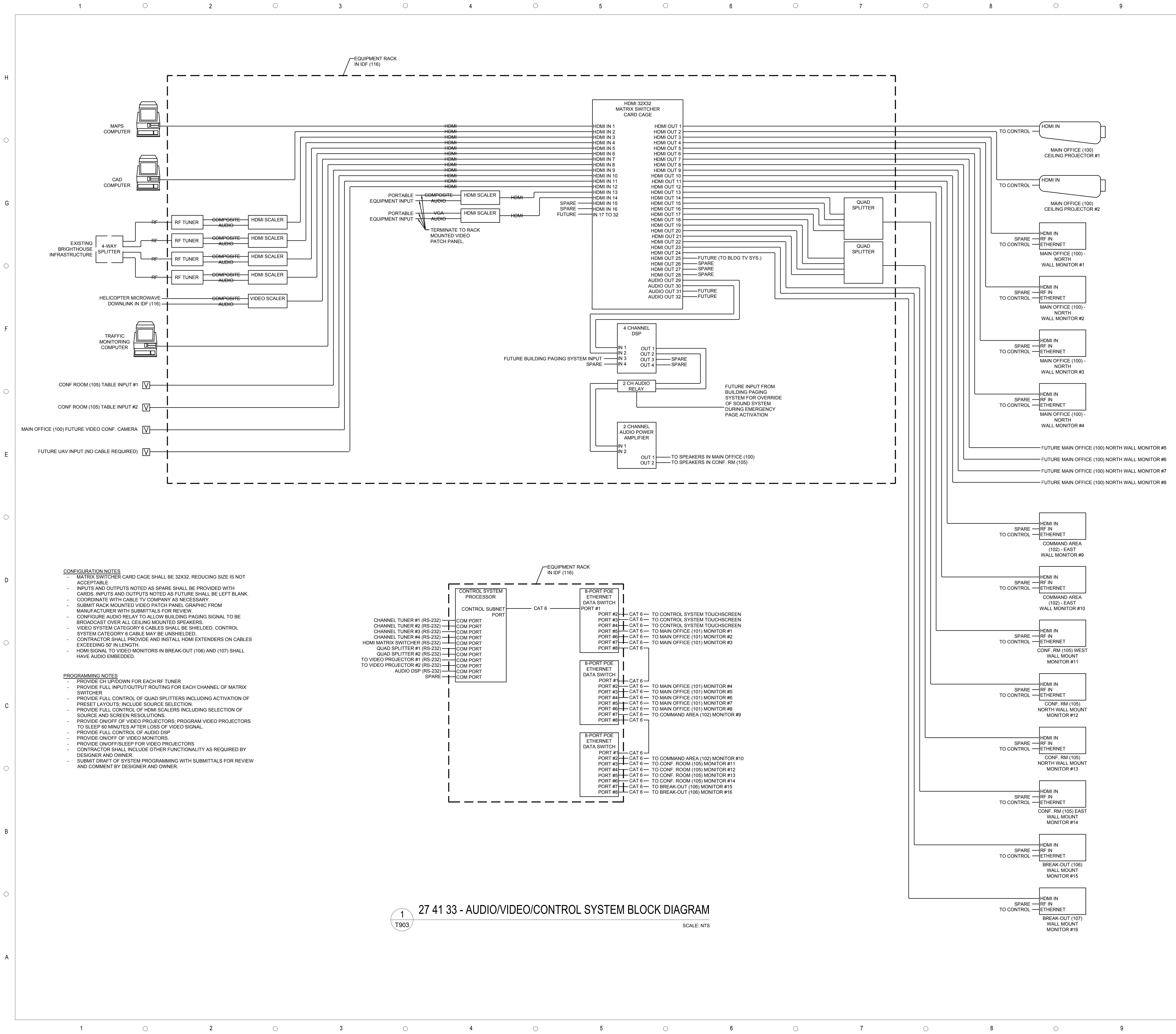
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DETAILS - SYSTEMS

SCALE: AS INDICATED  
DRAWN BY: DW  
CHECK BY: LJT  
DATE: 09/15/2016  
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T902





**NOTES**

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- CONFIGURATION NOTES**
- MATRIX SWITCHER CARD CAGE SHALL BE 32X32. REDUCING SIZE IS NOT ACCEPTABLE.
  - INPUTS AND OUTPUTS NOTED AS SPARE SHALL BE PROVIDED WITH CARDS. INPUTS AND OUTPUTS NOTED AS FUTURE SHALL BE LEFT BLANK.
  - COORDINATE WITH CABLE TV COMPANY AS NECESSARY.
  - SUBMIT RACK MOUNTED VIDEO PATCH PANEL, GRAPHIC FROM MANUFACTURER WITH SUBMITTALS FOR REVIEW.
  - CONFIGURE AUDIO RELAY TO ALLOW BUILDING PAGING SIGNAL TO BE BROADCAST OVER ALL CEILING MOUNTED SPEAKERS.
  - VIDEO SYSTEM CATEGORY 6 CABLES SHALL BE UNSHIELDED. CONTROL SYSTEM CATEGORY 6 CABLE MAY BE SHIELDED.
  - CONTRACTOR SHALL PROVIDE AND INSTALL HDMI EXTENDERS ON CABLES EXCEEDING 50' IN LENGTH.
  - HDMI SIGNAL TO VIDEO MONITORS IN BREAK-OUT (106) AND (107) SHALL HAVE AUDIO EMBEDDED.
- PROGRAMMING NOTES**
- PROVIDE CH UP/DOWN FOR EACH RF TUNER.
  - PROVIDE FULL INPUT/OUTPUT ROUTING FOR EACH CHANNEL OF MATRIX SWITCHER.
  - PROVIDE FULL CONTROL OF QUAD SPLITTERS INCLUDING ACTIVATION OF PRESET LAYOUTS; INCLUDE SOURCE SELECTION.
  - PROVIDE FULL CONTROL OF HDMI SCALERS INCLUDING SELECTION OF SOURCE AND SCREEN RESOLUTIONS.
  - PROVIDE ON/OFF OF VIDEO PROJECTORS; PROGRAM VIDEO PROJECTORS TO SLEEP 60 MINUTES AFTER LOSS OF VIDEO SIGNAL.
  - PROVIDE FULL CONTROL OF AUDIO DSP.
  - PROVIDE ON/OFF OF VIDEO MONITORS.
  - PROVIDE ON/OFF/SLEEP FOR VIDEO PROJECTORS.
  - CONTRACTOR SHALL INCLUDE OTHER FUNCTIONALITY AS REQUIRED BY DESIGNER AND OWNER.
  - SUBMIT DRAFT OF SYSTEM PROGRAMMING WITH SUBMITTALS FOR REVIEW AND COMMENT BY DESIGNER AND OWNER.

1  
T903 27 41 33 - AUDIO/VIDEO/CONTROL SYSTEM BLOCK DIAGRAM SCALE: NTS



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T903



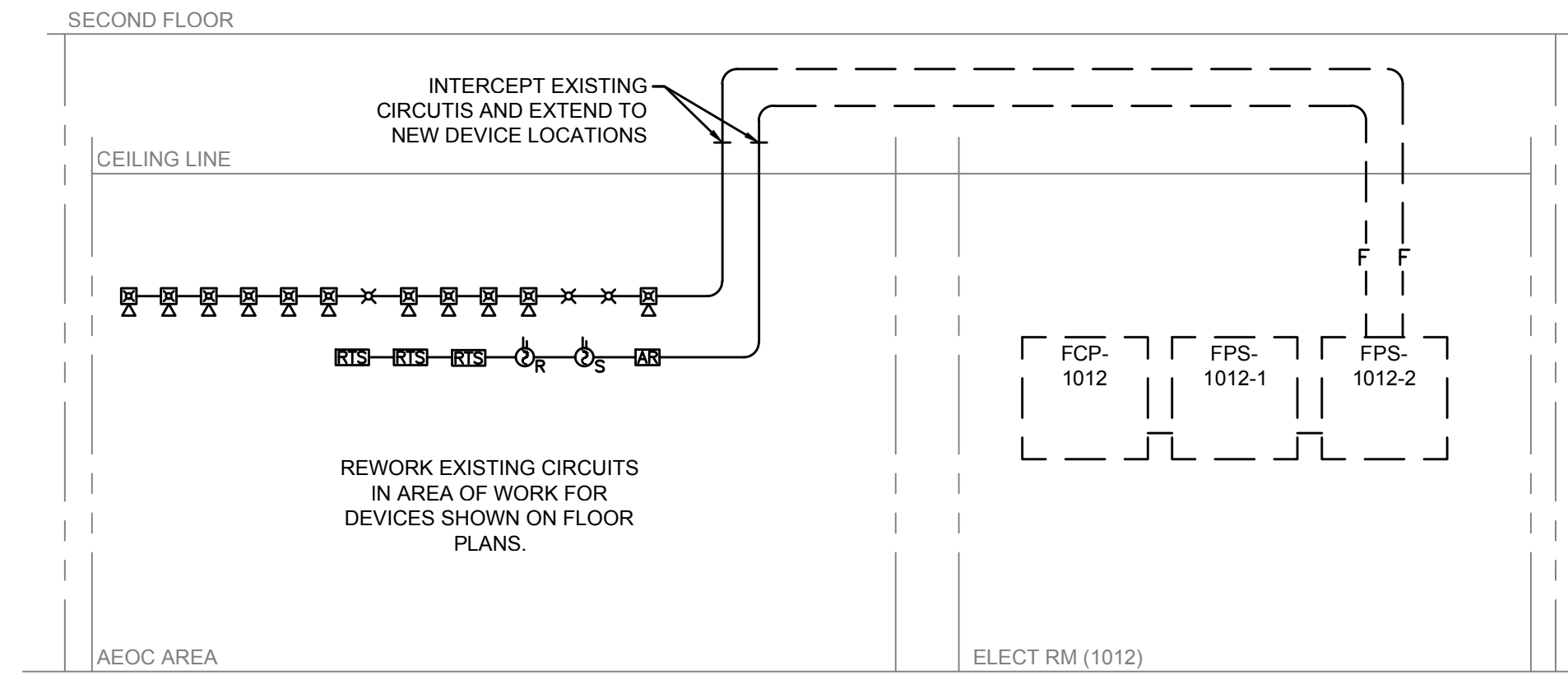
	FIRE ALARM SEQUENCE OF OPERATION													
	ACTIVATE BUILDING PROTECTION	ACTIVATE SUPERVISORY SIGNAL	ACTIVATE TROUBLE SIGNAL	SIGNAL AT ANNUNCIATOR	TRANSMIT ALARM TO SHUTDOWN AFFECTED AIR HANDLERS	MANUAL FIRE ALARM BOXES	AREA SMOKE DETECTORS	DUCT SMOKE DETECTORS	HEAT DETECTORS	SPINKLER WATER FLOW	SPRINKLER TAMPER SWITCH	FIRE ALARM TROUBLE	FIRE ALARM SUPERVISORY	SUPPRESSION SYS SUPERVISORY
MANUAL FIRE ALARM BOXES	X			X	X									
AREA SMOKE DETECTORS	X			X	X									
DUCT SMOKE DETECTORS		X		X	X									
HEAT DETECTORS	X			X	X									
SPINKLER WATER FLOW	X			X	X									
SPRINKLER TAMPER SWITCH		X		X	X									
FIRE ALARM TROUBLE			X	X	X									
FIRE ALARM SUPERVISORY		X		X	X									
SUPPRESSION SYS SUPERVISORY		X		X	X									

1 28 31 00 - FIRE ALARM SEQUENCE OF OPERATION  
T904 SCALE: NTS

CABLE PURPOSE	CABLE DESCRIPTION
INITIATION DEVICE CIRCUIT (IDC)	TWO (2) CONDUCTOR, JACKETED, 14 AWG, FPL RATED
VISUAL NOTIFICATION APPLIANCE CIRCUIT (INAC)	TWO (2) CONDUCTOR, JACKETED, 12 AWG, FPL RATED
AUDIBLE NOTIFICATION APPLIANCE CIRCUIT (NAC)	TWO (2) CONDUCTOR, JACKETED, 18 AWG, FPL RATED
ADDRESSABLE SIGNALING LINE CIRCUIT (SLC)	TWO (2) CONDUCTOR, JACKETED, 18 AWG, FPL RATED
MAGNETIC DOOR HOLD OPEN CIRCUIT	TWO (2) CONDUCTOR, JACKETED, 14 AWG, FPL RATED
24 VDC POWER CIRCUIT	TWO (2) CONDUCTOR, JACKETED, 18 AWG, FPL RATED
DUCT DETECTOR INDICATOR SWITCH	FOUR (4) CONDUCTOR, JACKETED, 14 AWG, FPL RATED
SERIAL LINE CIRCUIT TO ANNUNCIATOR PANEL	TWO (2) CONDUCTOR, JACKETED, 14 AWG, FPL RATED
WET LOCATION RATED SITE SERIAL LINE CIRCUIT	TWO (2) CONDUCTOR, JACKETED, 14 AWG, FPL RATED
WET LOCATION RATED INITIATION DEVICE CIRCUIT (IDC)	TWO (2) CONDUCTOR, 14 AWG, THWN RATED
WET LOCATION RATED SIGNALING LINE CIRCUIT (SLC)	TWO (2) CONDUCTOR, 14 AWG, THWN RATED
WET LOCATION RATED NOTIFICATION APPLIANCE CIRCUIT (NAC)	TWO (2) CONDUCTOR, 14 AWG, THWN RATED
WET LOCATION RATED 24 VDC POWER CIRCUIT	TWO (2) CONDUCTOR, 14 AWG, THWN RATED

- NOTES:
- FIRE ALARM SYSTEM CABLING SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER
  - CONDUCTOR SIZES SHOWN ARE MINIMUM. CONTRACTOR SHALL INCREASE SIZE AS NECESSARY FOR THE INSTALLED LOAD.
  - MAINTAIN SEPARATION OF CIRCUITS AS REQUIRED BY MANUFACTURER OR CODE.
  - FPL DENOTES FIRE POWER LIMITED CABLE.
  - FPLR RATED CABLE SHALL BE USED IN RISER APPLICATIONS. FPLR RATED CABLE SHALL BE USED WHERE FREE-WIRED IN PLENUM SPACES.

2 28 31 00 - FIRE ALARM CABLE REQUIREMENTS  
T904 SCALE: NTS



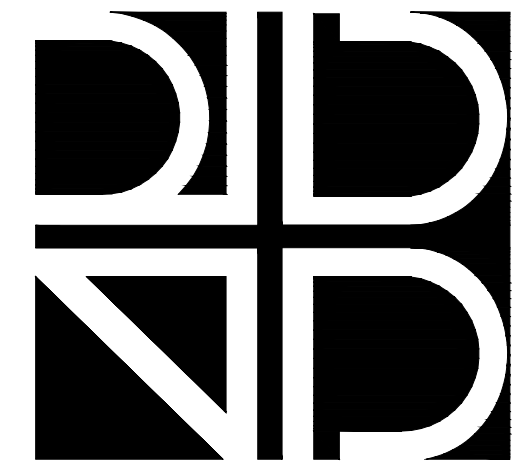
- NOTES:
- FIRE ALARM SYSTEM INSTALLER SHALL PROVIDE DETAILED POINT-TO-POINT DIAGRAM IN SYSTEM SHOP DRAWINGS SHOWING ALL SYSTEM EQUIPMENT, DEVICES, AND END-OF-LINE (EOL) RESISTORS AS PART OF HIS SHOP DRAWINGS.

3 28 31 00 - FIRE ALARM RISER DIAGRAM  
T904 SCALE: NTS

## NOTES

### GENERAL NOTES

- REFER TO TELECOMMUNICATIONS GENERAL NOTES ON SHEET ES001.
- CONTRACTOR SHALL INSTALL VOICE/DATA CABLING (E.G. CATEGORY 6 CABLING) SUCH THAT THE TIA 100 METER RULE IS NOT VIOLATED. THE CONTRACTOR SHALL COORDINATE ROUTING OF CABLE WITH OTHER SYSTEMS AND EQUIPMENT TO ENSURE THAT THE HORIZONTAL PORTION OF THE CABLE PLANT (FROM PATCH PANEL TO WORKSTATION OUTLET) DOES NOT EXCEED 295 FEET TOTAL LENGTH. CONTRACTOR SHALL PROVIDE INFORMATION AS PART OF HIS SUBMITTALS TO SHOW THAT THIS COORDINATION HAS BEEN ACCOMPLISHED. CONTRACTOR SHALL TEST THE CABLE PLANT AFTER INSTALLATION TO VERIFY CABLES DO NOT EXCEED THE ALLOWABLE LENGTH AND SHALL SUBMIT TEST RESULTS FOR REVIEW BY THE DESIGNER. ANY CABLES SHOWN BY TESTING TO EXCEED THE ALLOWABLE LENGTH SHALL BE REPLACED BY THE CONTRACTOR AS HIS EXPENSE. REFER TO SPECIFICATIONS.
- CONTRACTOR SHALL CIRCUIT FIRE ALARM SYSTEM DEVICES AS REQUIRED BY THE EQUIPMENT MANUFACTURER AND CODE AND SHALL INCLUDE THAT INFORMATION IN HIS SHOP DRAWINGS. SHOP DRAWINGS SHALL SHOW LOCATIONS FOR END-OF-LINE (EOL) RESISTORS AS CONTRACTOR INTENDS TO INSTALL THEM.



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Orange County Government

Orange County  
Sheriff's Office  
Central Operations  
Center

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Command and Monitor  
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Seal 09/15/2016

William John Gnan  
42572

BID DOCUMENTS  
"NOT FOR CONSTRUCTION"

DATE	SUBMISSION / REVISION	NO.
11/18/2016	Permit Review Responses	1

DETAILS - SYSTEMS

SCALE: AS INDICATED  
DRAWN BY: DW  
CHECK BY: LJT  
DATE: 09/15/2016  
PROJECT NUMBER: 15012-0011

T904