

UTICA

TENANT BUILD-OUT

1100 BOULDERS PKWY
RICHMOND, VA

ABBREVIATIONS

AF.F.	AT	L.F.	LINEAR FOOT
ALUM.	ABOVE FINISHED FLOOR	MECH.	MECHANICAL
APPROX.	APPROXIMATE	MIN.	MINIMUM
A.G.T.	ACOUSTICAL TILE CEILING	M.O.	MASONRY OPENING
		MTL.	METAL
BD.	BOARD	N.C.	NOT IN CONTRACT
BLDG.	BUILDING	O.C.	ON CENTER
BLK.	BLOCK	O.F.OI	OFFICE FURNISHED/ OFFICE INSTALLED
BRG.	BEARING	OPNG.	OPENING
		OPP.	OPPOSITE
C.F.	CUBIC FOOT	PT.	PAINT
CLS.	CELLING	FL.	FLASTIC LAMINATE
C.M.U.	CONCRETE MASONRY UNIT	FLYWD.	PLYWOOD
COL.	COLUMN	FRFIN.	PREFINISHED
CONC.	CONCRETE	PTD.	PAINTED
CONST.	CONSTRUCTION	REF.	REFERENCE
CONT.	CONTINUOUS	REINF.	REINFORCEMENT
CPT.	CARPET	REQ.	REQUIRED
C.T.	CERAMIC TILE	RM.	ROOM
		R.T.U.	ROOM TOP UNIT
DIA.	DIAMETER	S.F.	SQUARE FOOT
DN.	DOWN	SHT.	SHEET
DS.	DOWNSPOUT	SIM.	SIMILAR
DTL.	DETAIL	S.C.	SOLID CORE
DWG.	DRAWINGS	SG.	SQUARE
		S.R.	SPALL REPAIR
EA.	EACH	S.S.	STAINLESS STEEL
EF.	EXHAUST FAN	STD.	STANDARD
E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM	STL.	STEEL
E.J.R.	EXPANSION JOINT REPAIR	STRUC.	STRUCTURE
ELEC.	ELECTRIC	SUSP.	SUSPENDED
E.W.C.	ELECTRIC WATER COOLER	THK.	THICK
ELEV.	ELEVATION	TRTD.	TREATED
EQUIP.	EQUIPMENT	TYP.	TYPICAL
EXIST.	EXISTING	U.O.N.	UNLESS OTHERWISE NOTED
EXP.	EXPANSION	V.B.	VINYL BASE
EXT.	EXTERIOR	V.C.T.	VERTICAL COMPOSITION TILE
		VERT.	VERTICAL
F.D.	FLOOR DRAIN	V.I.F.	VERIFY IN FIELD
FIN.	FINISH	V.T.	VENT THROUGH ROOF
FLR.	FLOOR	W/	WITH
		W.C.	WALL COVERING
GA.	GAUGE	WH.	WATER HEATER
GMB.	GYPSUM WALL BOARD	WD.	WOOD
GYP.	GYPSUM	W.F.	WELDED WIRE FABRIC
HDK.	HARDWARE		
H.C.	HANDICAPPED		
HORIZ.	HORIZONTAL		
HK.	HOLLOW METAL		
HT.	HEIGHT		
INSUL.	INSULATION		
JT.	JOINT		
J.R.	JOINT REPAIR		

BUILDING CODE DATA

ALL WORK SHALL BE IN ACCORDANCE WITH 2012 INTERNATIONAL BUILDING CODE WITH THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (2012 EDITION) (VUBCC) AND AIA A201 GENERAL CONDITIONS (LATEST EDITION).

EXISTING BUILDING: CONSTRUCTION TYPE: IIA (B) - BUSINESS USE GROUP: FULLY SPRINKLERED

FIRE PROTECTION: ON CENTER

NEW WORK: AREA: 6520 SQUARE FEET

PROJECT SYNOPSIS: TENANT RENOVATION

CONTACT INFORMATION:

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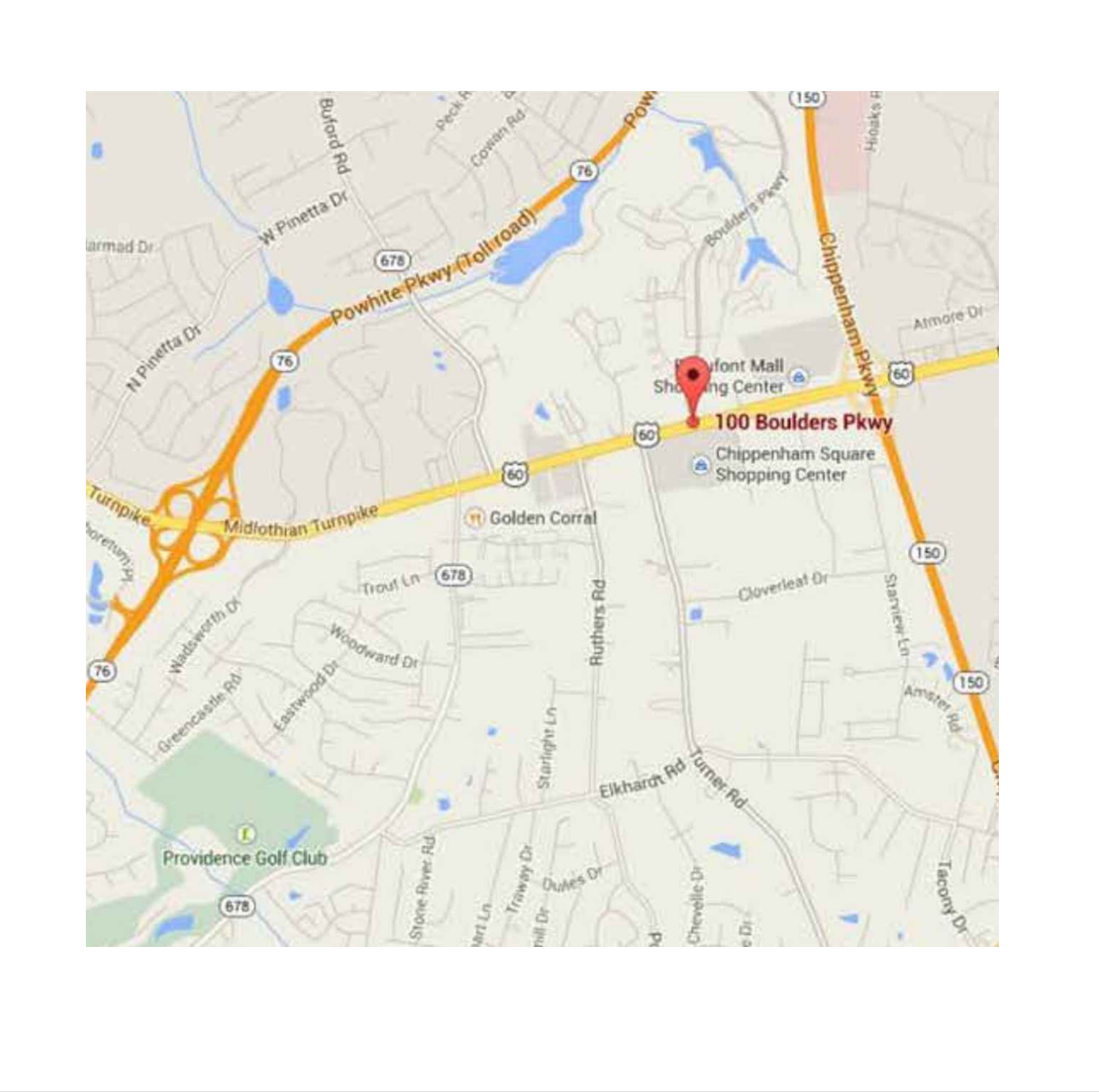
BUILDING REPRESENTATIVE:
RUSSELL WYATT
RWYATT@COMMONWEALTHCOMMERCIAL.COM

CONTRACTOR:
COMPANY NAME: TBD
CONTACT NAME: TBD
EMAIL ADDRESS: TBD

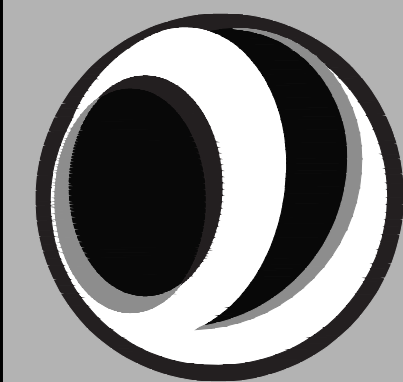
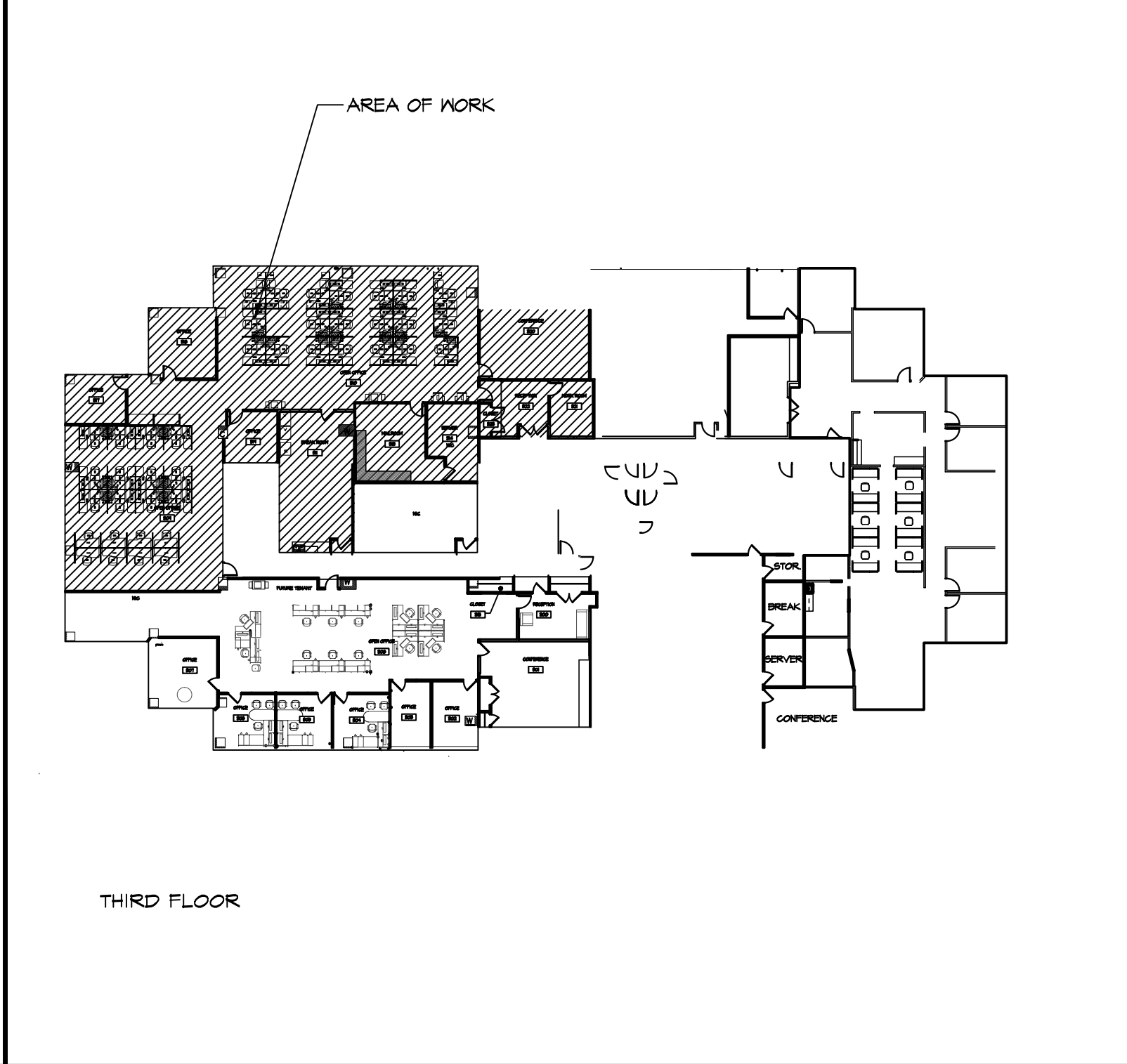
INDEX OF DRAWINGS

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		NUMBER	DATE
ARCHITECTURAL			
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A2.1	REFLECTED CEILING PLAN AND POWER, VOICE AND DATA PLAN	1	05.02.16
A3.1	FINISHES	1	05.02.16

LOCATION MAP



KEY PLAN



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DRAWING ISSUE: PERMIT SET
REVISION 1

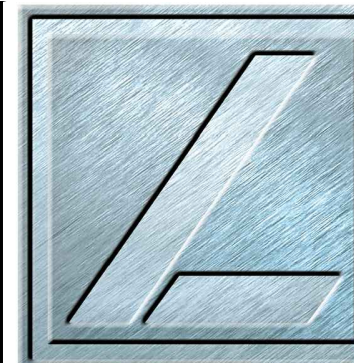
DATE: 04.14.16
05.02.16

JOB NUMBER: 5877
DRAWN BY: ECE
CHECKED BY: ERB

COVER SHEET

SHEET NUMBER:

GI.1



LINGERFELT
DEVELOPMENT

UTICA

BOULDERS III
1100 BOULDERS PARKWAY, SUITE 300
RICHMOND, VA



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

PLAN LEGEND

- ILLUMINATED EXIT SIGN ARROWS INDICATE DIRECTION OF EGRESS
- COMMON PATH OF TRAVEL
- PATH OF TRAVEL
- EXIT INDICATOR FOR EGRESS FROM TENANT BUILD OUT ALONG PATH OF EGRESS/TRAVEL
- EXIT INDICATOR FOR EGRESS FROM FLOOR ALONG PATH OF EGRESS/TRAVEL

CODE INFORMATION:

APPLICABLE CODE: 2012 INTERNATIONAL BUILDING CODE W/ AMENDMENTS PER THE VA. CONSTRUCTION CODE (USEC - PART I)

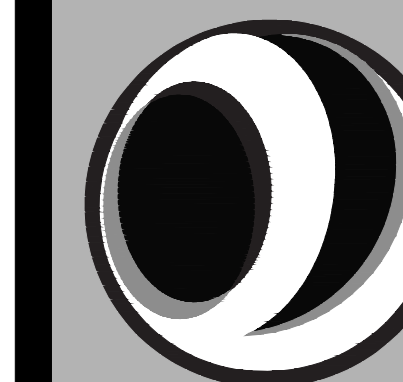
EXISTING BUILDING: IIA (EXIST. BUILDING) TENANT IMPROVEMENT
CONSTRUCTION TYPE:

USE GROUP CLASSIFICATION: B

FIRE PROTECTION: AUTOMATIC SPRINKLER SYSTEM

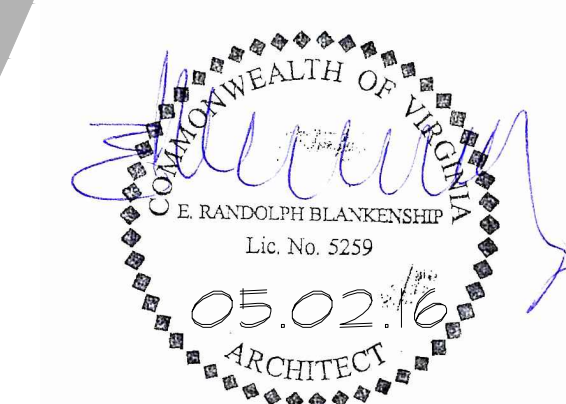
OCCUPANT LOAD CALCULATIONS:

SPACE	AREA	LOAD FACTOR	OCCUPANT LOAD
TOTAL AREA OF WORK	6520 SF		
BUSINESS OCCUPANCY	6520 SF	1 PER 100	66 PERSONS
TOTAL:			66 PERSONS



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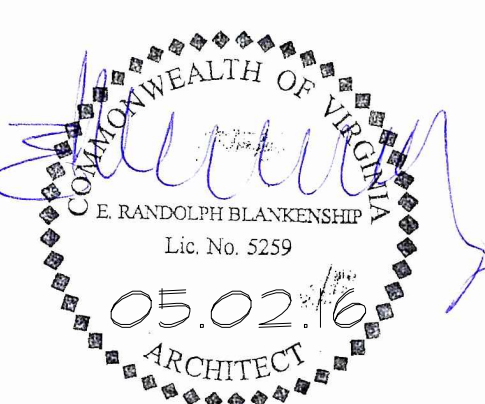
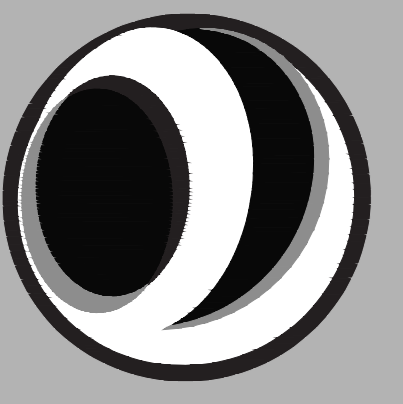
DRAWING ISSUE: PERMIT SET REVISION 1
DATE: 04.14.16 05.02.16

JOB NUMBER: 5877
DRAWN BY: EHE
CHECKED BY: ERB

EGRESS PLAN

SHEET NUMBER:

GI.3



PLAN LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING PARTITION TO REMAIN		SECTION
	NEW PARTITION		DETAIL
	ROOM DESIGNATION		DETAIL
	DOOR DESIGNATION		REVISION
	EXISTING DOOR TO REMAIN		WALL TYPE
	NEW OR RELOCATED DOOR		
	EXISTING CASEWORK TO BE REWORKED		

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	EXISTING WALLS TO REMAIN
	EXISTING WALLS TO BE REMOVED
	EXISTING DOOR TO BE REMOVED
	EXISTING DOOR TO REMAIN
	EXISTING CASEWORK TO BE REMOVED, SALVAGE FOR REUSE
	DUPLEX RECEPTACLE TO BE REMOVED
	DATA RECEPTACLE TO BE REMOVED
	CARD READER TO BE REMOVED
	POWER POLE TO BE REMOVED, SALVAGE FOR REUSE
	EXISTING FURNITURE WHP. CAP OFF WITH BLANK PLATE IF WHP IS NO LONGER IN USE, REFERENCE PVD A2.1

PARTITION GENERAL NOTES

- PATCH ALL AREAS DISTURBED BY DEMOLITION CONSTRUCTION. PREPARE SURFACES TO RECEIVE NEW FINISHES.
- PROVIDE FIRE RATED BLOCKING FOR ALL WALL MOUNTED ITEMS.
- PROVIDE SUPPLEMENTAL FRAMING, INSULATION, AND FINISH MATERIALS AS REQUIRED TO MAINTAIN PARTITION TYPE FIRE RESISTANT RATING.
- ALL MECHANICAL, ELECTRICAL, AND PLUMBING PENETRATIONS SHALL COMPLY WITH ASTM E814, FIRE-STOPPING DETAILS PER CURRENT CODE.
- SEE DETAIL 4/A/1 FOR TYPICAL DOOR PLACEMENT
- CONTRACTOR TO VERIFY AND COORDINATE DOOR FRAME THICKNESS WITH WALL THICKNESS.
- VERIFY THAT THERE ARE BUILDING STANDARD BLINDS ON ALL WINDOWS IF PROVIDED BY BUILDING OWNER AS A STANDARD. PROVIDE NEW AS NEEDED TO MATCH BUILDING STANDARD IF MISSING AND ARE PROVIDED AS BUILDING STANDARD. IF PROVIDED CLEAN ALL EXISTING TO REMAIN.
- CONTRACTOR TO COORDINATE ALL FINISH SELECTIONS WITH TENANT AND BUILDING MANAGEMENT.

PARTITION TYPES

- NOTE: ALL PARTITIONS SHALL BE TYPE 'A' UNLESS NOTED OTHERWISE
- A** 3/8" 25 GA. MTL. STUDS AT 24" O.C. WITH 3/8" GWB EACH SIDE TO UNDERSIDE OF ACT CEILING. SEE DETAIL SHEET A/1.
 - C** 3/8" 25 GA. MTL. STUDS AT 24" O.C. WITH 3/8" GWB EACH SIDE TO UNDERSIDE OF ACT CEILING WITH 1/2" BATT INSULATION IN PARTITION AND TO EXTEND 4" ON EITHER SIDE OF PARTITION. SEE DETAIL SHEET A/1.
- GAUGE OF STUDS LISTED HERE IS FOR GUIDANCE ONLY. CONTRACTOR SHALL CONFIRM GAUGE AND SPACING WITH METAL STUD MANUFACTURER AND CRITERIA LISTED IN GENERAL PARTITION NOTES ON 6/2.

PARTITION PLAN KEY NOTES

- ALIGN NEW PARTITION WITH ADJACENT EXISTING PARTITION OR COLUMN, AS INDICATED.
- PROVIDE FIRE-RATED BLOCKING IN WALL FOR EQUIPMENT. COORDINATE EXACT HEIGHT AND LOCATION WITH TENANT.
- FURR-OUT WALL AS REQUIRED TO INSTALL NEW CASEWORK AGAINST FLUSH WALL.
- REWORK EXISTING CASEWORK PER NEW LAYOUT. COORDINATE EXACT DIMENSIONS AND REQUIREMENTS WITH TENANT.

DEMOLITION NOTES

- REMOVE AND DISPOSE OF ALL EXISTING FINISHES UNLESS OTHERWISE NOTED. UNLESS OTHERWISE INDICATED, DEMOLISHED MATERIALS BECOME THE CONTRACTOR'S PROPERTY.
- PATCH AND REPAIR ALL SURFACES AS REQUIRED TO ACCEPT NEW FINISHES.
- PATCH AND REPAIR FLOOR SUBSTRATE AS REQUIRED FOR INSTALLATION OF NEW FINISHES.
- OWNER TO DETERMINE WHICH ITEMS ARE TO BE SALVAGED OR SAVED, AND WHAT ITEMS ARE TO BE REMOVED FROM SITE.
- MAINTAIN AND PROTECT EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE BEFORE PROCEEDING WITH DEMOLITION, PROVIDING BYPASS CONNECTIONS TO OTHER PARTS OF THE BUILDING.
- CAP ALL PLUMBING LINES IN WALLS OR BELOW FLOORS WHERE FIXTURES ARE REMOVED OR RELOCATED, AND PREP SURFACES AS REQUIRED TO RECEIVE NEW FINISHES.
- FIELD VERIFY EXISTING CONDITIONS/LOCATIONS OF WALLS TO BE DISTURBED PRIOR TO REMOVAL.
- COMPLY WITH EPA REGULATIONS AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- REMOVE ALL ELECTRICAL, TELEPHONE AND DATA OUTLETS AND PULL WIRES BACK TO SOURCE FOR ANY EXISTING OUTLETS NOT INDICATED ON POWER, VOICE AND DATA PLAN. CAP, PATCH AND PREPARE TO ACCEPT NEW FINISHES. VERIFY WITH TENANT AND TENANT'S CABLE VENDOR PRIOR TO DISCONNECT.
- ALL EXISTING STRUCTURAL MEMBERS TO REMAIN UNDISTURBED UNLESS OTHERWISE NOTED. WHEN APPLICABLE, PROTECT EXISTING SPRAY APPLIED FIREPROOFING ON EXISTING STRUCTURAL STEEL. PATCH & REPAIR ANY DAMAGED DURING DEMOLITION.
- PROVIDE A PORTABLE FIRE EXTINGUISHER ON SITE AT ALL TIMES.
- WHEN APPLICABLE, PROTECT EXISTING SPRINKLER SYSTEM PIPING DURING DEMOLITION.
- COORDINATE WITH BUILDING MANAGER REGARDING SMOKE DETECTION SYSTEM PROTECTION DURING DEMOLITION AND CONSTRUCTION.
- REFERENCE DESIGN BUILD MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SCOPE OF MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION.

DEMOLITION KEY NOTES

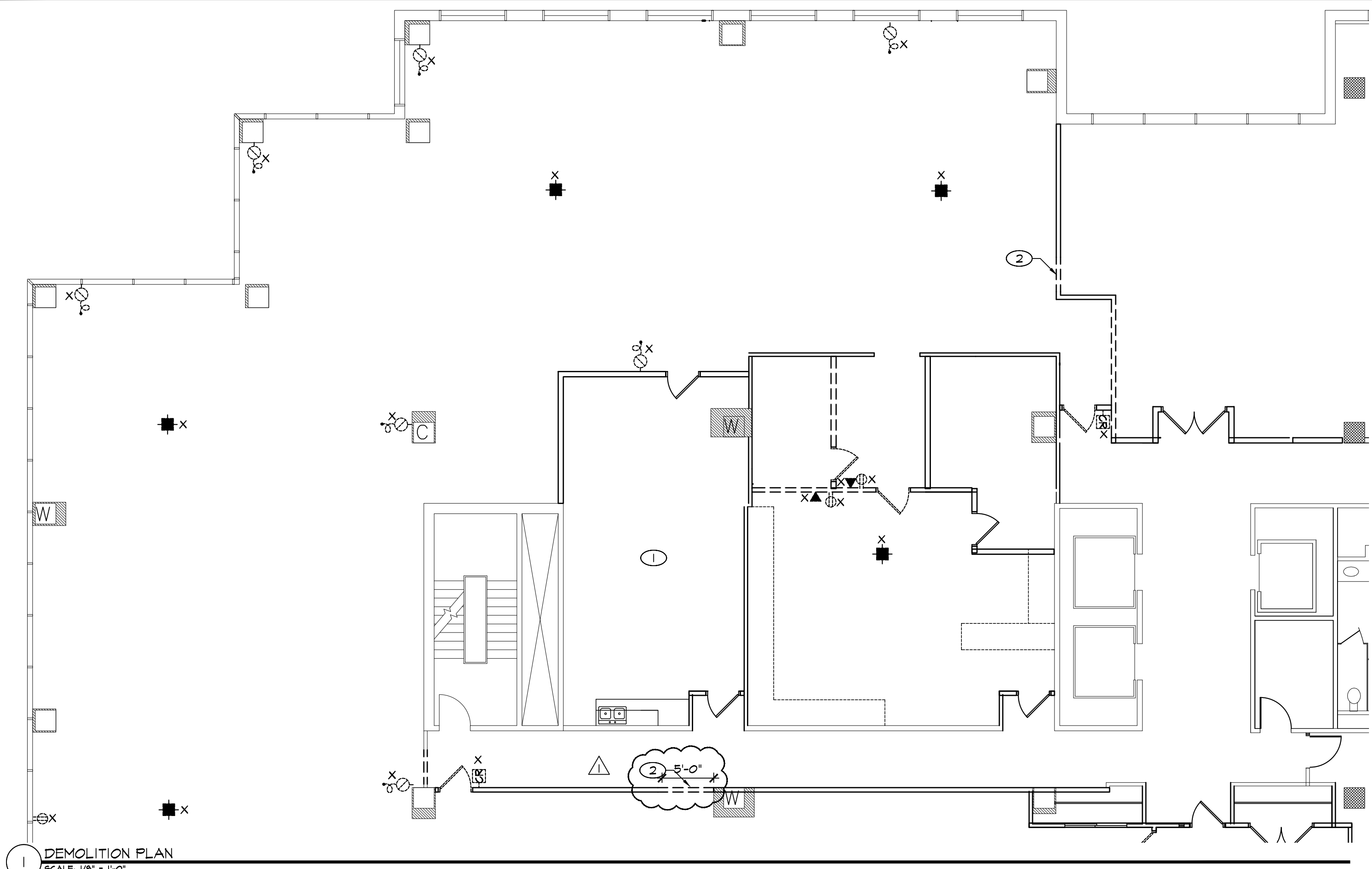
- REMOVE EXISTING FLOORINGS AND BASE. PREPARE TO RECEIVE NEW FINISHES AS SPECIFIED BY TENANT.
- REMOVE PORTION OF PARTITION FOR NEW DOOR. SEE 2/A/1

DOOR NOTES

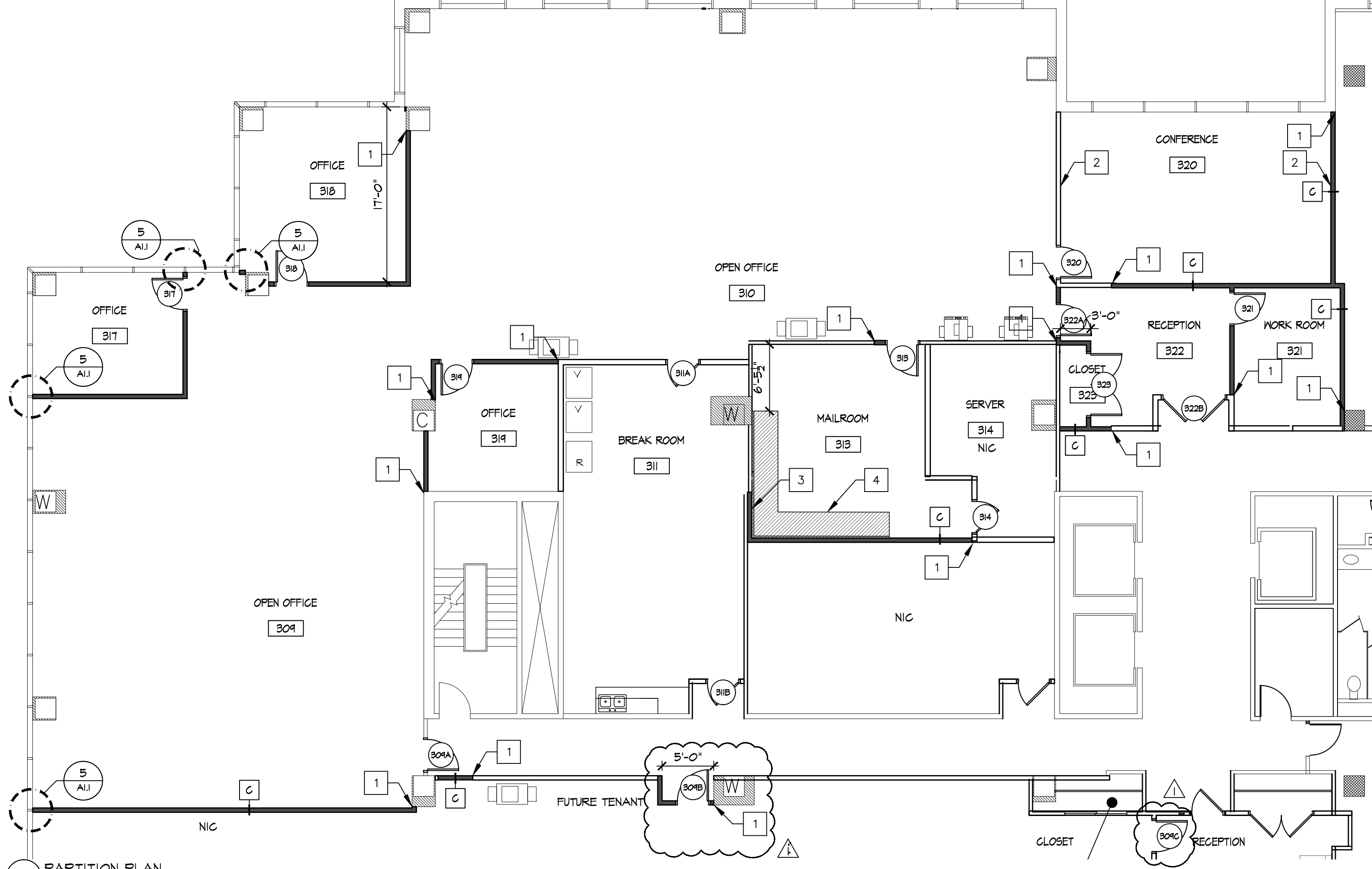
- UNLESS NOTED OTHERWISE DOORS SHALL BE BUILDING STANDARD.
- HARDWARE SHALL MATCH BUILDING STANDARD.
- CONTRACTOR TO EVALUATE ALL EXISTING DOORS TO REMAIN, AND REPAIR OR REPLACE AS NEEDED.
- COORDINATE KEYING WITH TENANT AND BUILDING MANAGEMENT.
- INSTALL BUILDING STANDARD WALL OR FLOOR STOPS AT DOOR LOCATIONS.
- FRAMES SHALL BE 2" HOLLOW METAL. TO MATCH EXISTING. FRAME SHALL BE SIZED AS REQUIRED, NEED TO COORDINATE TO ACCOMMODATE DOOR HEIGHT AND WIDTH AND PARTITION THICKNESS.
- CONTRACTOR TO PAINT FRAMES OF EXISTING DOORS TO REMAIN TO MATCH NEW FRAMES PAINT AS SCHEDULED.
- CONTRACTOR TO REUSE EXISTING DOORS WHEREVER POSSIBLE.
- PROVIDE BUILDING STANDARD COAT HOOK ON BACKSIDE OF ALL OFFICE DOORS. HOOK FINISH TO MATCH DOOR HARDWARE.
- ALL DOORS TO HAVE A MAX. 1/8" CLEARANCE AT TOP & SIDES, UNDERCUT ALL DOORS 5/8" A.F.F. COMPLETELY SEAL TOP & BOTTOM OF ALL DOORS WITH FINISH.

DOOR HARDWARE

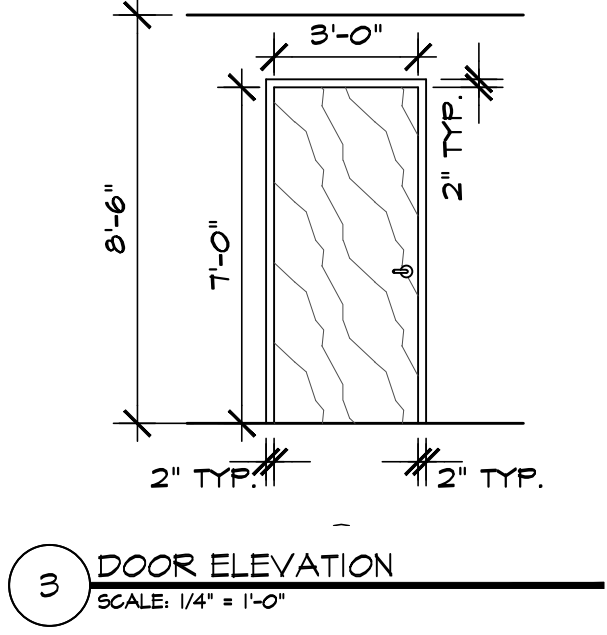
- ALL HARDWARE TO BE BUILDING STANDARD
- OO) EXISTING TO REMAIN
 - IO) PASSAGE LATCH SET
 - II) OFFICE LOCK SET
 - BO) ELECTRIC STRIKE LOCKING DEVICE WITH CARD READER AND CLOSER
 - BI) EXISTING TO REMAIN, ADD MANS. LOCK WITH CLOSER AND CARD READER
- LOCK SETS SHALL BE VERIFIED AND MATCHED TO BUILDING STANDARD (CYLINDRICAL OR MORTISE) LEVER LOCK SET KEYS TO BUILDING GRAND MASTER KEY. COORDINATE KEYING WITH ARCHITECT, TENANT AND BUILDING MANAGEMENT.



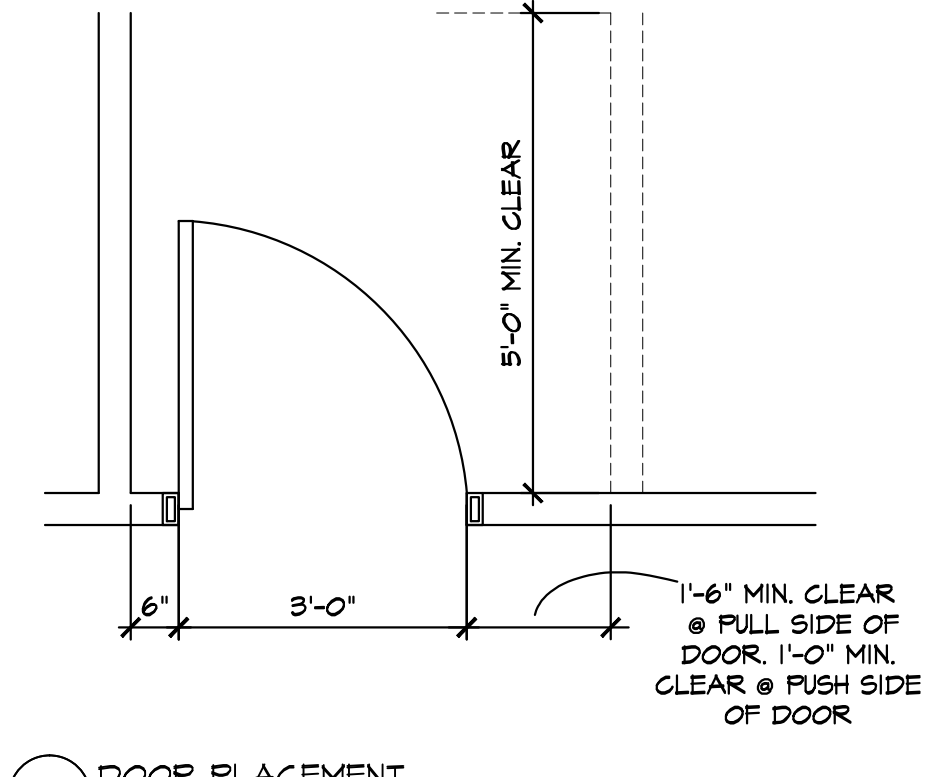
1 DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



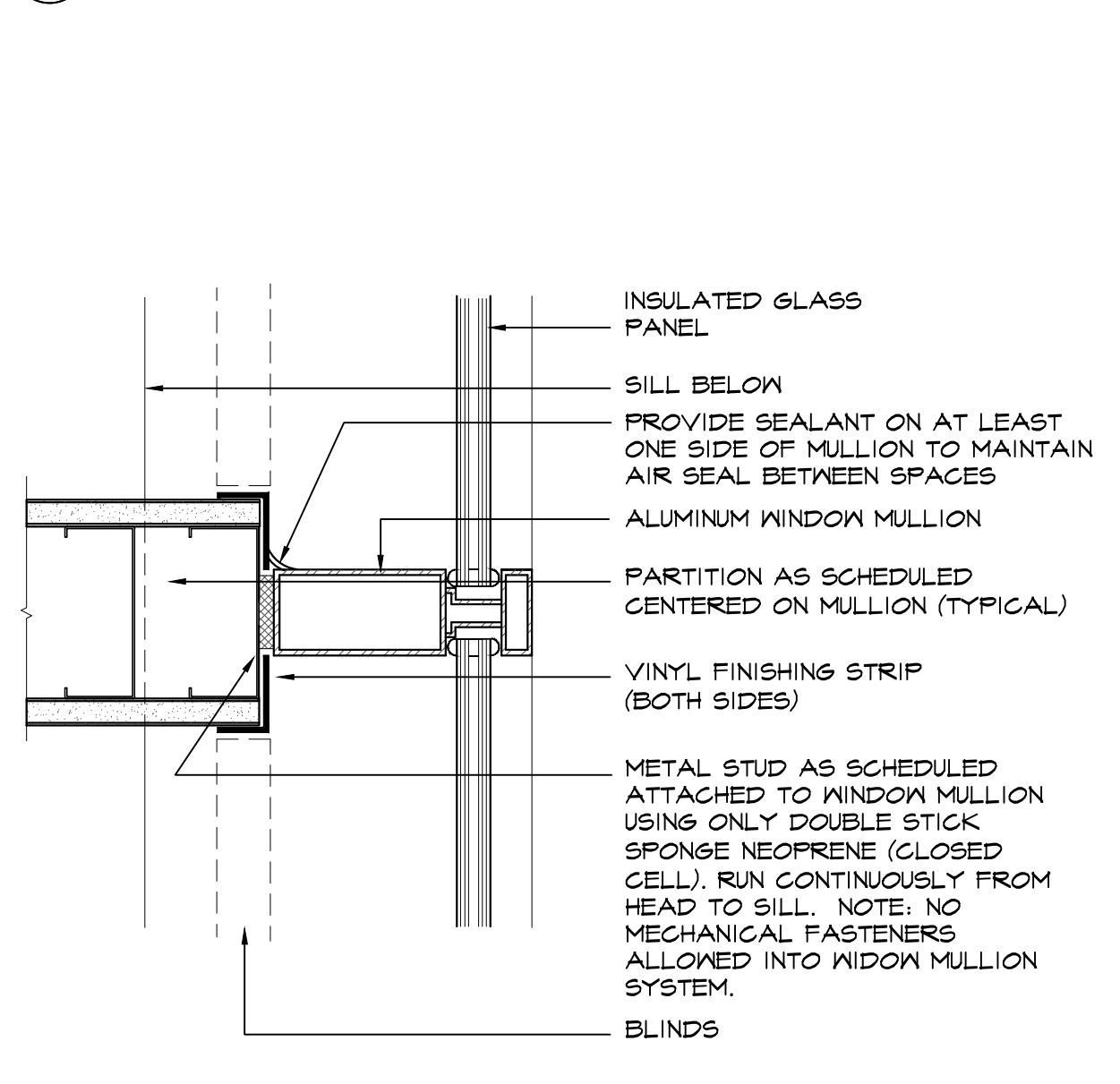
2 PARTITION PLAN
SCALE: 1/8" = 1'-0"



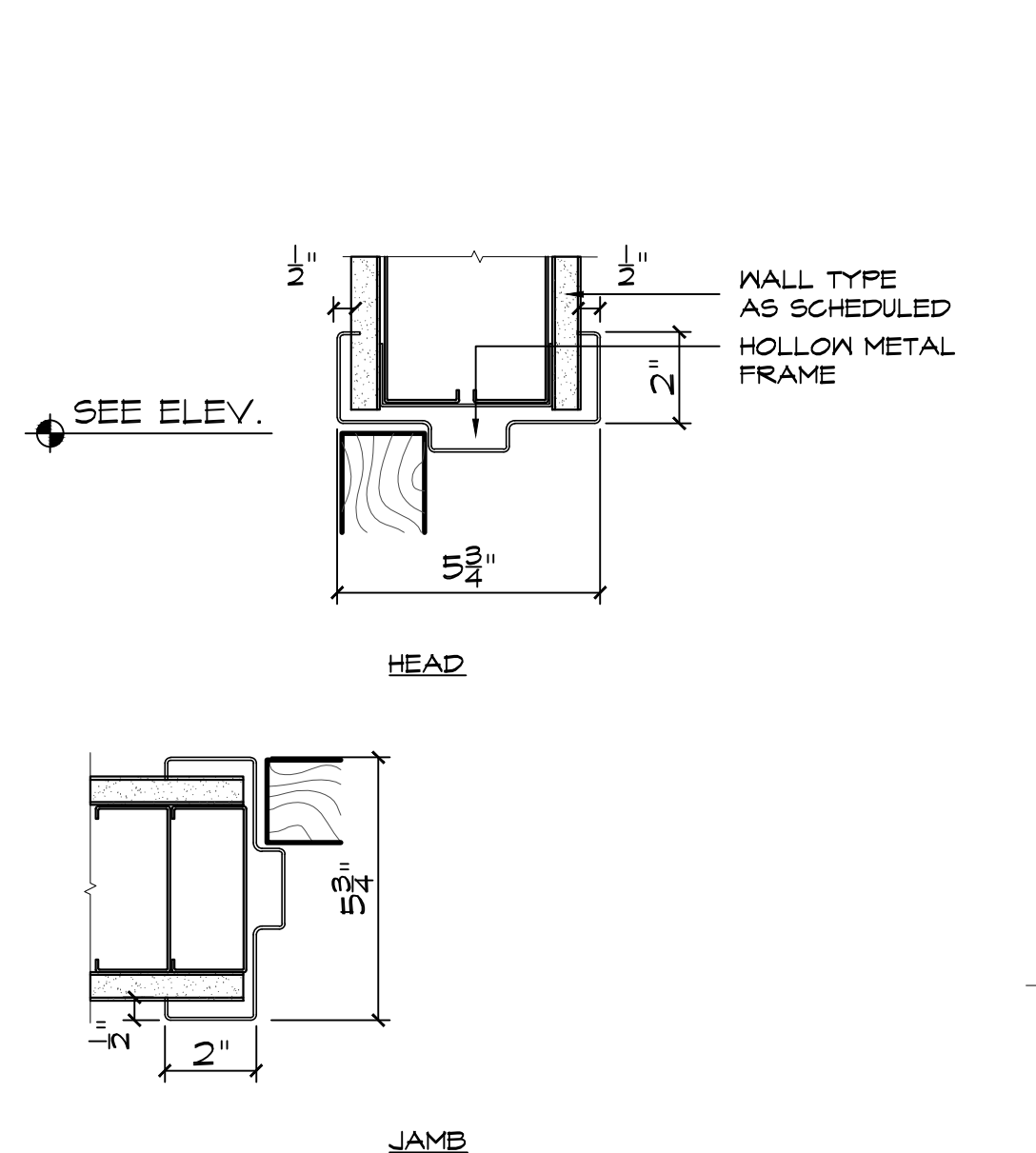
3 DOOR ELEVATION
SCALE: 1/4" = 1'-0"



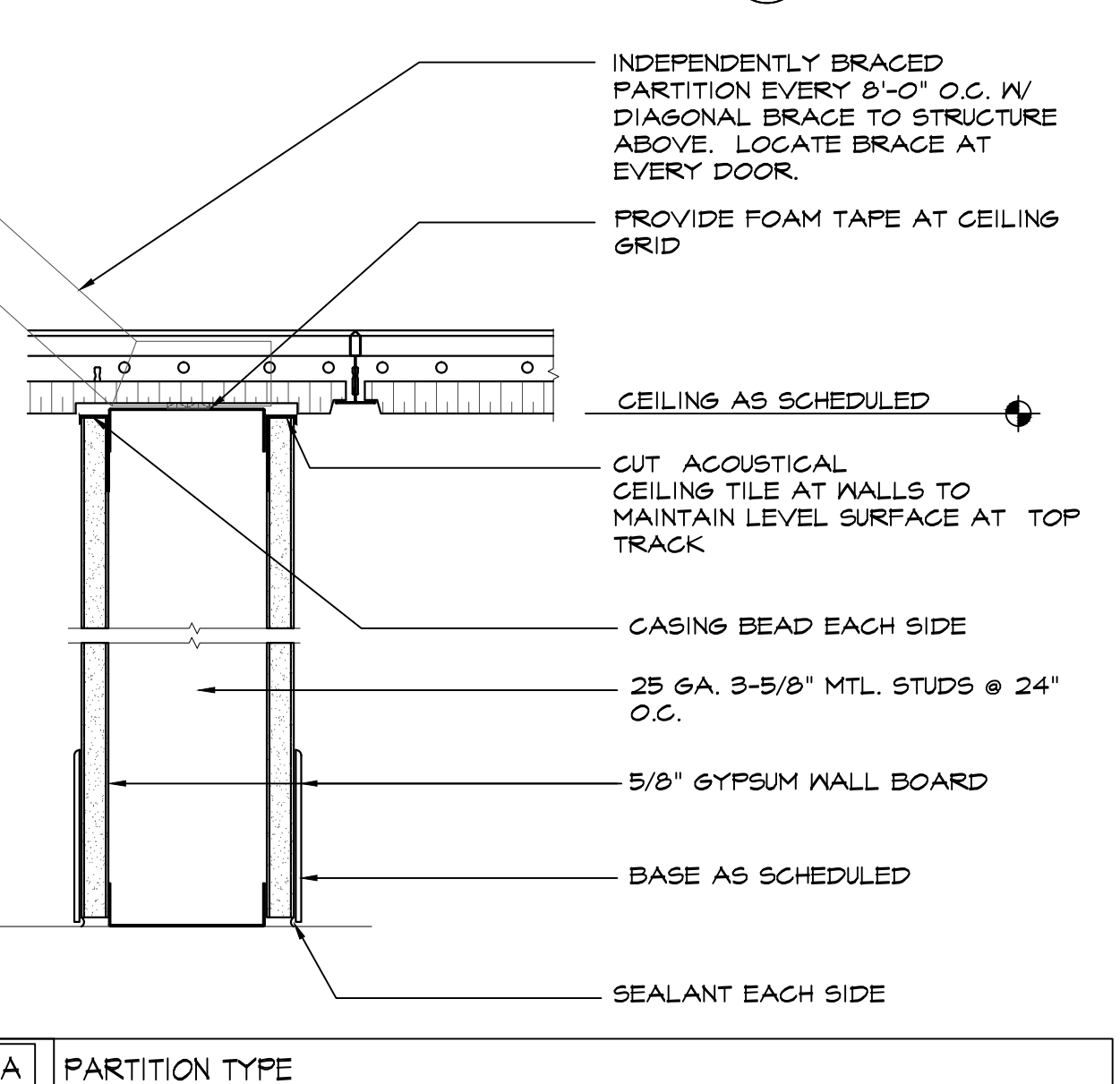
4 DOOR PLACEMENT
SCALE: 1/2" = 1'-0"



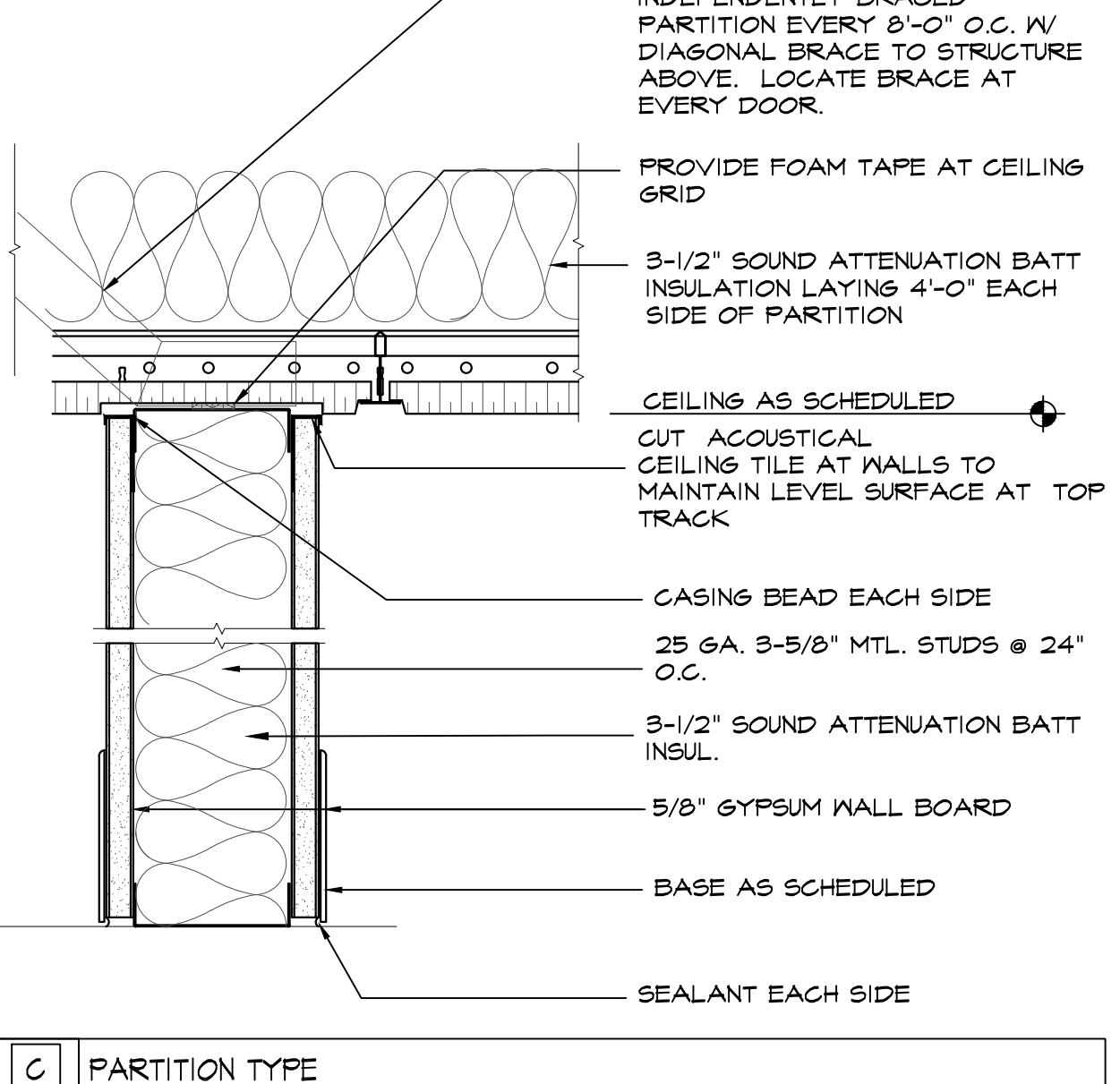
5 MULLION DETAIL
SCALE: 3" = 1'-0"



6 DOOR DETAILS
SCALE: 3" = 1'-0"



A PARTITION TYPE
SCALE: 3" = 1'-0"



C PARTITION TYPE
SCALE: 3" = 1'-0"

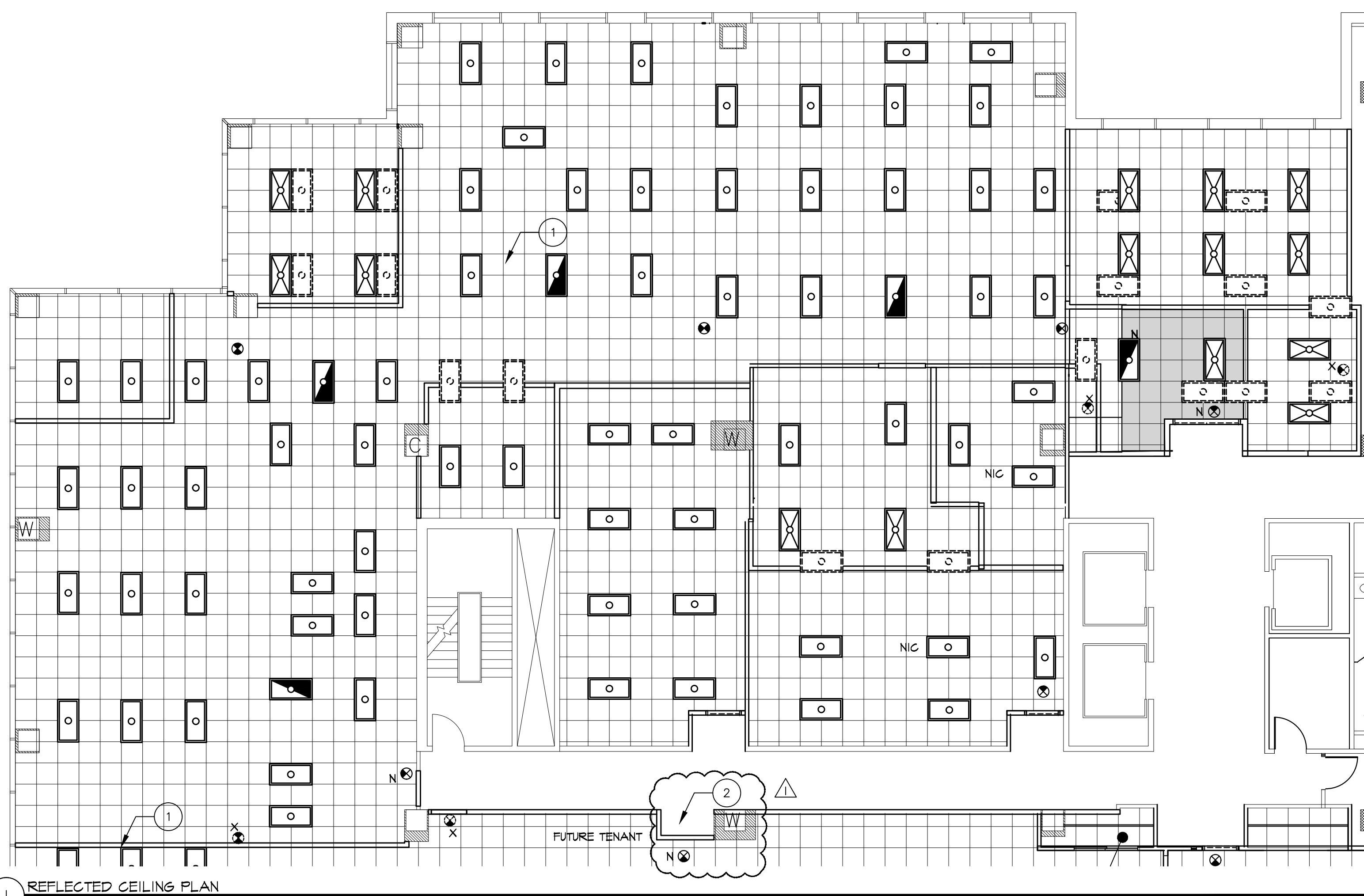
DOOR SCHEDULE

MARK	DOOR			EL	MATL	FRAME	FIRE RATING LABEL	HDW SET NO.	NOTES
	WD	HGT	THK						
B09A	3'-0"	7'-0"	1 3/4"	A	KD	HM	--	SO	
B09B	3'-0"	7'-0"	1 3/4"	A	KD	HM	--	OO	COORD. W/ BLDG. MGMT.
B09C	3'-0"	7'-0"	1 3/4"	ETR	ETR	ETR	--	OO	REVERSE SWING
B10A	3'-0"	7'-0"	1 3/4"	B			--	II	
B11B	3'-0"	8'-0"	1 3/4"	ETR	ETR	ETR	--	OO	
B13	3'-0"	7'-0"	1 3/4"	A	KD	HM	--	II	
B14	3'-0"	7'-0"	1 3/4"	ETR	ETR	--	--	OO	
B17	3'-0"	7'-0"	1 3/4"	A	KD	HM	--	II	
B18	3'-0"	7'-0"	1 3/4"	A	KD	HM	--	II	
B19	3'-0"	7'-0"	1 3/4"	A	KD	HM	--	II	
B20	3'-0"	7'-0"	1 3/4"	A	KD	HM	--	II	
B21	3'-0"	7'-0"	1 3/4"	A	KD	HM	--	II	
B22A	3'-0"	7'-0"	1 3/4"	A	KD	HM	--	SO	
B22B	2 @ 3'-0"	8'-0"	1 3/4"	ETR	ETR	ETR	--	SI	REUSE EXISTING IN GIVE-BACK SUITE
B23	2 @ 3'-0"	7'-0"	1 3/4"	MATCH EXISTING	KD	HM	--	IO	

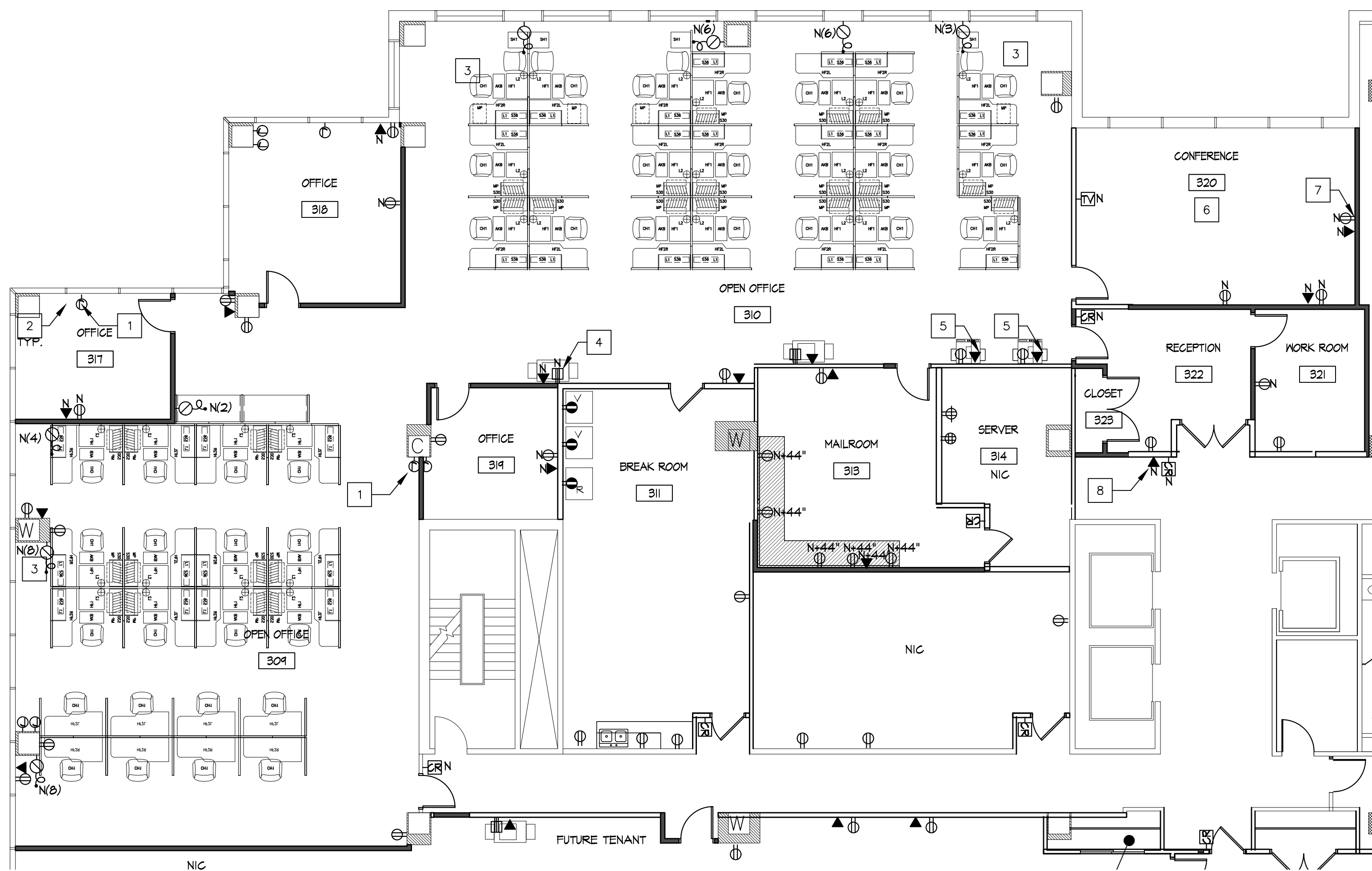
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DEMOLITION PLAN AND PARTITION PLAN

SHEET NUMBER:
AI.I



1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



2 POWER, VOICE AND DATA PLAN
SCALE: 1/8" = 1'-0"

POWER/VOICE AND DATA LEGEND

- | SYMBOL | DESCRIPTION |
|--------|--|
| ⊕ | DUPLEX RECEPTACLE, 20 AMP. |
| ⊕ | DEDICATED RECEPTACLE FOR COPIERS, COORDINATE REQUIREMENTS WITH VENDOR. |
| ▽ | SINGLE GANG BOX FOR VOICE & DATA CONNECTION. PROVIDE CONDUIT TO ACCESS POINT ABOVE FINISHED CEILING. PROVIDE FULL STRINGS FROM BOX TO ACCESS POINT ABOVE CEILING. |
| ⊕ | WALL MOUNTED JBOX FOR POWER AND DATA FOR FURNITURE SYSTEMS BASE FEED. FURNITURE VENDOR TO PROVIDE ELECTRICAL BASE FEED. ELECTRICIAN TO HARDWIRE. |
| (#) | IDENTIFIES QUANTITY OF WORKSTATIONS TO BE FED. |
| ⊕ | POWER POLE TO SYSTEMS FURNITURE TO ACCOMMODATE POWER AND CAT-6 VOICE/DATA CABLING. POWER POLE TO BE PROVIDED BY FURNITURE MANUFACTURER. CONTRACTOR TO PROVIDE JUNCTION BOX IN CEILING FOR POWER POLE. COORDINATE EXACT LOCATION WITH FURNITURE DEALERSHIP. |
| (#) | IDENTIFIES QUANTITY OF WORKSTATIONS TO BE FED. |
| ⊕ | BLANK JUNCTION BOX |
| +44" | INDICATED HEIGHT ABOVE FINISHED FLOOR |
| ⊕ | CARD READER COORDINATE REQUIREMENTS WITH SECURITY VENDOR. COORDINATE MOUNTING HEIGHT WITH TENANT. ADA-COMPLIANT. |
| ⊕ | PROVIDE NEW DUPLEX OUTLET AND DATA ACCESS WHERE INDICATED. COORDINATE EXACT HEIGHT AND LOCATION WITH TENANT. |
| N | INDICATES NEW |

PVD GENERAL NOTES

- CONTRACTOR SHALL VISIT THE SITE AND EXAMINE CONDITIONS OF THE PREMISES AND THE CHARACTER AND EXTENT OF WORK REQUIRED PRIOR TO SUBMISSION OF BIDS. ANY DIFFICULTIES IN COMPLYING WITH THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE BIDDING.
- CONTRACTOR TO COORDINATE WITH TENANT TO SCHEDULE TENANT'S VOICE & DATA VENDOR.
- COVER PLATES ON WALLS SHALL BE RIGID NONMETALLIC TO MATCH THOSE EXISTING. PLATES TO BE STANDARD SIZE (OVERSIZED PLATES ARE NOT ACCEPTABLE). PROVIDE COVER PLATE ON ANY EXISTING BOXES NOT USED.
- WIRING DEVICES ARE TO MATCH THOSE EXISTING UNLESS NOTED OTHERWISE.
- VOICE AND DATA CABLING, TERMINATIONS AND COVER PLATES ARE BY VOICE/DATA TENANT'S VENDOR. VOICE/DATA BOXES AND PULL STRINGS SHALL BE INSTALLED BY ELECTRICAL SUB-CONTRACTOR.
- COORDINATE MECHANICAL SYSTEMS UTILIZATION OF A CEILING PLENUM, IF APPLICABLE FOR RETURN AIR AS REQUIRED. ALL MATERIALS USED WITHIN CEILING PLENUM SHALL BE IN ACCORDANCE WITH APPLICABLE BUILDING CODES.
- ALL RECEPTACLES AND/OR OUTLETS SHALL BE LOCATED 18" A.F.F. UNLESS NOTED OTHERWISE.
- THE NUMBER DESIGNATION INDICATES HEIGHT ABOVE FINISH FLOOR. ALL HEIGHTS INDICATED ARE TO CENTERLINE UNLESS NOTED OTHERWISE.
- WHERE 2 OR MORE BOXES OCCUR IN A PARTITION TOGETHER, BOXES SHALL BE MOUNTED ADJACENT TO EACH OTHER. WHERE BOXES ARE INDICATED BACK TO BACK IN A PARTITION, STAGGER AS REQUIRED.
- EXISTING BUILDING ELECTRICAL PANEL BOXES ARE LOCATED IN THE BUILDING ELECTRICAL AND TELEPHONE CLOSET. CONTRACTOR TO PROVIDE ADDITIONAL POWER TO MEET NEW TENANT ELECTRICAL REQUIREMENTS IF NECESSARY.
- REMOVE EXISTING ELECTRICAL OR DATA RECEPTACLES WHERE IT MAY INTERFERE WITH NEW CONSTRUCTION.
- VERIFY THAT CONDUIT IS PROVIDED RUNNING FROM ALL EXISTING POWER, VOICE AND DATA BOXES TO THE ABOVE CEILING. PROVIDE RINGS AND STRINGS IF CONDUIT DOES NOT EXIST RUNNING FROM BOXES. CONDUIT WILL BE PROVIDED IF THE POWER, VOICE, AND DATA LINES MUST RUN BELOW THE SLAB OR UNDER ADJACENT SUITES.
- WALL MOUNTED TELEPHONE OUTLETS, #48" AFF, SHOULD BE LOCATED 18" FROM DOOR FRAME, TYPICAL.
- WALL MOUNTED FIRE ALARM STROBES AND LIGHT SWITCHES, SHOWN TO BE ADJACENT TO AN OPENING, SHOULD BE LOCATED 18" FROM DOOR FRAME, WHERE APPLICABLE, (TYPICAL).
- REFER TO ARCHITECT'S PLAN FOR EXACT OUTLET AND JUNCTION BOX LOCATIONS. REFER TO DESIGN BUILD MEP PLAN FOR CIRCUITING.
- CENTER NEW OUTLETS ON WALL IN WHICH THEY OCCUR, UNLESS OTHERWISE NOTED.
- ANY VENDOR IS TO PROVIDE, COORDINATE, & INSTALL ALL APPLICABLE A/V EQUIPMENT AND WIRING AS NEEDED. COORDINATE EQUIPMENT SIZES WITH TENANT AND ARCHITECT. ANY VENDOR TO COORDINATE INSTALLATION AND WIRING WITH CONTRACTOR.
- TENANT'S SECURITY VENDOR TO COORDINATE ALL SECURITY EQUIPMENT LOCATIONS AND POWER REQUIREMENTS WITH ARCHITECT AND CONTRACTOR.
- ALL OUTLETS ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
- CONTRACTOR TO RELOCATE EXISTING THERMOSTATS AS NECESSARY. KEEP CLEAR OF ALL EQUIPMENT, FURNITURE PANELS, OR OTHER ITEMS THAT WOULD OBSTRUCT ACCESS TO THE THERMOSTAT. COORDINATE WITH ARCHITECT AND/OR TENANT. REFER TO ELECTRICAL DESIGN BUILD MEP DRAWINGS. ALL LOCATIONS TO BE CONFIRMED WITH BUILDING ENGINEER PRIOR TO INSTALLATION.
- SEE REFLECTED CEILING PLAN FOR ALL CEILING MOUNTED POWER, VOICE AND DATA REQUIREMENTS.
- SEE ELECTRICAL DRAWINGS FROM ENGINEER TO VERIFY WHAT IS CONNECTED TO EMERGENCY GENERATOR.

PVD KEY NOTES

- CONVERT EXISTING RECEPTACLE TO NEW DUPLEX RECEPTACLE.
- CONVERT ANY EXISTING FURNITURE WHIPS NO LONGER IN USE TO BLANK PLATES, TYPICAL THROUGHOUT.
- COORDINATE EXACT REQUIREMENTS OF FURNITURE POWER AND DATA WITH TENANT AND TENANT'S FURNITURE VENDOR. REUSE EXISTING WHEREVER POSSIBLE.
- PROVIDE NEW RECEPTACLE FOR COPIER - NEMA 5-20R. COORDINATE EXACT REQUIREMENTS WITH TENANT AND EQUIPMENT VENDOR.
- PROVIDE BLANK COVER PLATE OVER EXISTING DATA RECEPTACLE.
- PROVIDE FLAT WIRE SYSTEM TO ALLOW POWER AND CAT 6 VOICE/DATA ACCESS TO CENTER OF CONFERENCE ROOM TABLE. COORDINATE EXACT LOCATION WITH TENANT.
- WALL MOUNTED MOTORIZED PROJECTOR. COORDINATE EXACT POWER AND SWITCHING REQUIREMENTS AND SIZE/LOCATION WITH TENANT AND TENANT'S VENDOR.
- PHONE RECEPTACLE - COORDINATE EXACT HEIGHT AND REQUIREMENTS WITH TENANT.

REFLECTED CEILING LEGEND:

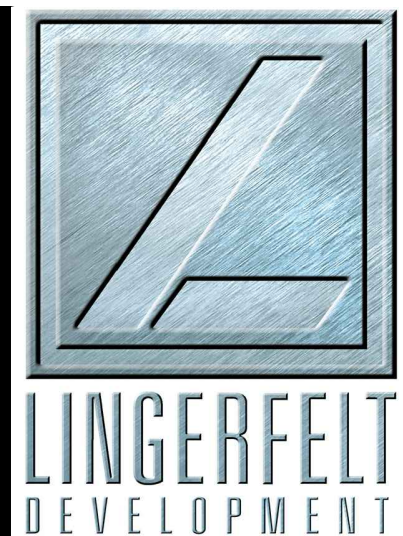
- | SYMBOL | DESCRIPTION |
|--------|---|
| ⊕ | EXISTING BUILDING STANDARD CEILING GRID AND TILE TO REMAIN. |
| ⊕ | NEW CEILING GRID AND TILE TO MATCH ADJACENT EXISTING CEILING GRID AND TILE. |
| ⊕ | EXISTING BUILDING STANDARD 2x4 FLUORESCENT FIXTURE TO BE REMOVED |
| ⊕ | EXISTING BUILDING STANDARD 2x4 FLUORESCENT FIXTURE TO REMAIN |
| ⊕ | RELOCATED BUILDING STANDARD 2x4 FLUORESCENT FIXTURE |
| ⊕ | EXISTING BUILDING STANDARD 2x4 EMERGENCY BACKUP FLUORESCENT FIXTURE |
| N | INDICATES NEW |
| ⊕ | EXIT SIGN FOR REFERENCE ONLY. SEE DESIGN BUILD MEP DRAWINGS FOR LOCATIONS. |
| N | INDICATES NEW |
| X | INDICATES ITEM TO BE REMOVED |

REFLECTED CEILING NOTES

- CONTRACTOR TO REUSE AS MANY EXISTING FIXTURES AS POSSIBLE. CLEAN AND RE-LAMP ALL REUSED FIXTURES TO MATCH BUILDING STANDARD. PROVIDE NEW LAMPS AND/OR BULBS FOR ALL FIXTURES - EXISTING REUSED AND NEW ALL BULBS TO HAVE A COLOR TEMPERATURE OF 3500K WITH A MINIMUM CRI OF 80. ALL FIXTURES SHOULD BE CLEAN AND FREE OF DUST, LABELS, ETC.
- REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR LIGHT FIXTURE LOCATION.
- CONTRACTOR SHALL PROVIDE LIGHT FIXTURE CUT SHEETS FOR ARCHITECT'S APPROVAL, PRIOR TO ORDERING. NO SUBSTITUTIONS SHALL BE SUBMITTED UNLESS AVAILABILITY OF FIXTURE IS PROHIBITIVE TO MEETING THE PROJECT SCHEDULE.
- ALL LIGHT FIXTURES ARE DIMENSIONED TO CENTER OF FIXTURE, UNLESS NOTED OTHERWISE.
- LIGHTS TO BE CENTERED ON TILE, TYPICAL, UNLESS NOTED OTHERWISE.
- WIRING DEVICES ARE TO MATCH BUILDING STANDARD.
- EACH SPACE TO BE INDIVIDUALLY SWITCHED UNLESS NOTED OTHERWISE.
- COVER PLATES ON WALLS SHALL BE BUILDING STANDARD. PLATES TO BE STANDARD SIZE (OVERSIZED PLATES ARE NOT ACCEPTABLE).
- COORDINATE ALL FIRE SAFETY EQUIPMENT, INCLUDING EXIT SIGNS, EMERGENCY BACK-UP LIGHTS, AUDIO AND VISUAL ALARMS, PULL STATIONS, ETC AS REQUIRED BY ALL APPLICABLE CODES AND ORDINANCES HAVING JURISDICTION ON THIS PROJECT WITH CONTRACTOR. REFER TO MEP DRAWINGS FOR EXACT LOCATION AND SPECIFICATION OF EMERGENCY EGRESS AND LIGHTING AND EXIT FIXTURES.
- PROVIDE T-BAR HOLD DOWN CLIPS ON ALL FIXTURES WHERE APPLICABLE.
- PROVIDE BLOCKING IN CEILING FOR ALL PROJECTION SCREENS. COORDINATE WITH A/V VENDOR.
- SEE DESIGN BUILD DRAWINGS FOR SPRINKLER LOCATION/FIRE SUPPRESSION PLAN.
- WHERE WATER HEATERS ARE PROVIDED IN THE PLENUM THEY SHALL BE SUPPORTED BY NON COMBUSTIBLE CONSTRUCTION (METAL STUDS).

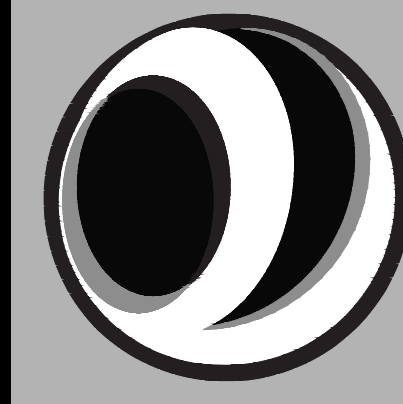
REFLECTED CEILING KEY NOTES

- REWORK EXISTING LIGHTING AS REQUIRED PER NEW PARTITION LAYOUT.
- PATCH/REPAIR EXISTING GRID AND TILE AS NEEDED FOR NEW ENTRANCE. CONTRACTOR SHALL MATCH EXISTING AND COORDINATE WITH CORRIDOR FINISHES. COORDINATE WITH BUILDING MANAGEMENT TO MATCH EXISTING SPECIFICATIONS.



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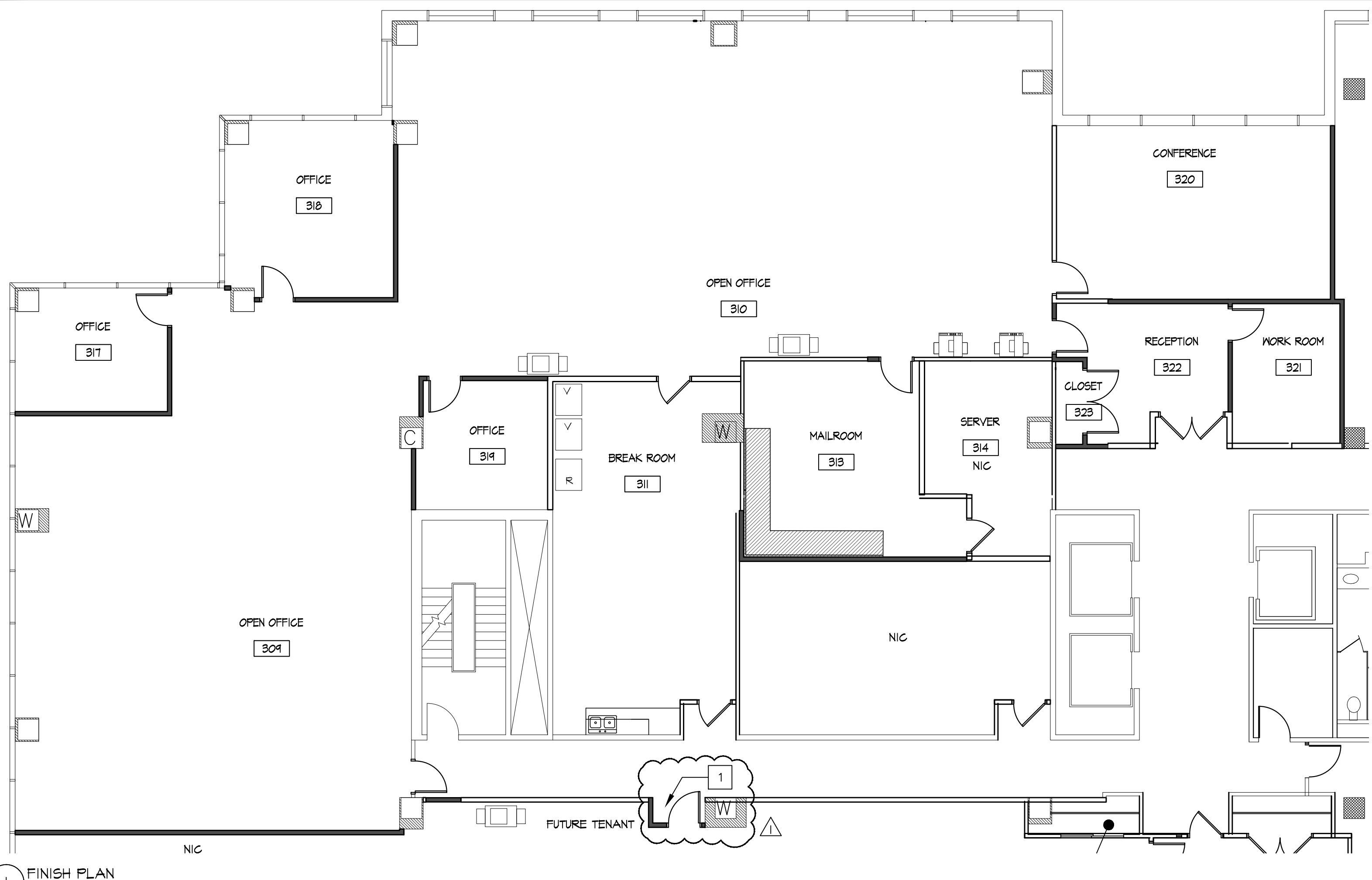
JOB NUMBER: 5877
DRAWN BY: EHE
CHECKED BY: ERB

REFLECTED CEILING PLAN
AND POWER, VOICE AND
DATA PLAN

SHEET NUMBER:

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

FINISH SPECIFICATIONS

FLOORING		BASE		WALL COVERING	
CPT-1	MANUF.: TBD STYLE: TBD COLOR: TBD DESCRIPTION: TBD	VB-1	MANUF.: TBD COLOR: TBD STYLE: COVE LENGTH: CONTINUOUS	F-1	MANUF.: TBD COLOR: TBD COLOR #: TBD FINISH: TBD
VGT-1	MANUF.: TBD STYLE: TBD COLOR: TBD COLOR #: TBD SIZE: TBD			F-2	MANUF.: TBD COLOR: TBD COLOR #: TBD FINISH: TBD
VGT-2	MANUF.: TBD STYLE: TBD COLOR: TBD COLOR #: TBD SIZE: TBD				

ROOM FINISH SCHEDULE

ROOM NO.	NAME	BASE	FLOOR	TRIM	WALL MAT.	WALLS				CEILING MATERIAL	NOTES	NO.
						ALL	NORTH	EAST	SOUTH			
309	OPEN OFFICE	VB-1	CPT-1	F-2	GYP	F-1	--	--	--	ACT	--	309
310	OPEN OFFICE	VB-1	CPT-1	F-2	GYP	F-1	--	--	--	ACT	--	310
311	BREAK ROOM	VB-1	VGT-1-2	F-2	GYP	F-1	--	--	--	ACT	--	311
313	MAIL ROOM	VB-1	VGT-1-2	F-2	GYP	F-1	--	--	--	ACT	--	313
314	SERVER	ETR	ETR	ETR	ETR	ETR	--	--	--	ETR	--	314
317	OFFICE	VB-1	CPT-1	F-2	GYP	F-1	--	--	--	ACT	--	317
318	OFFICE	VB-1	CPT-1	F-2	GYP	F-1	--	--	--	ACT	--	318
319	OFFICE	VB-1	CPT-1	F-2	GYP	F-1	--	--	--	ACT	--	319
320	CONFERENCE	VB-1	CPT-1	F-2	GYP	F-1	--	--	--	ACT	--	320
321	WORK ROOM	VB-1	VGT-1	F-2	GYP	F-1	--	--	--	ACT	--	321
322	RECEPTION	VB-1	CPT-1	F-2	GYP	F-1	--	--	--	ACT	--	322
323	CLOSET	VB-1	CPT-1	F-2	GYP	F-1	--	--	--	ACT	--	323

FINISH LEGEND

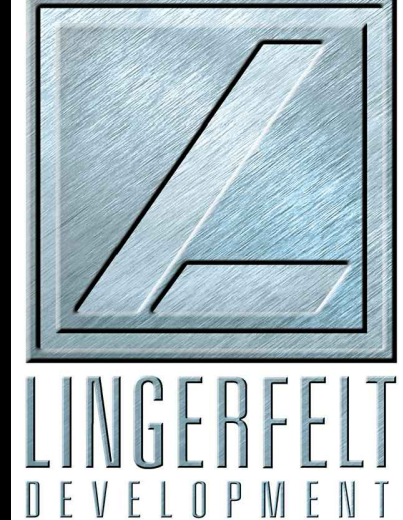
CPT = CARPET
P = PAINT
VB = VINYL BASE
VGT = VINYL COMPOSITION FLOOR TILE

FINISH GENERAL NOTES

- CONTRACTOR TO SUBMIT (3) SETS OF 8" X 10" SAMPLES TO ARCHITECT FOR APPROVAL, PRIOR TO ORDERING. THIS IS INCLUSIVE OF ALL FINISH SAMPLES.
- FLOOR FINISH NOTES**
- VGT FLOORING IS TO BE RUN IN A MONOLITHIC PATTERN.
 - REFER TO SHEET 61.2 FOR ADDITIONAL NOTES AND THIS SHEET FOR FINISH SPECIFICATIONS.
 - ALL MATERIALS SHALL BE APPLIED IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURERS' RECOMMENDATIONS.
 - CARPET SEAMING TO BE COORDINATED FOR PROPER MATCHING OF CARPET PATTERNS.
 - CONTRACTOR TO CORRECTLY TREAT ALL SEAM AND EDGES ACCORDING TO MANUFACTURERS RECOMMENDED INSTALLATION METHODS AT ALL CARPET-TO-CARPET TRANSITIONS. CONTRACTOR TO SUBMIT SEAMING DIAGRAM TO ARCHITECT FOR APPROVAL. SEAMING DIAGRAM SUBJECT TO ADJUSTMENT OR CHANGE AS REQUIRED.
 - CONTRACTOR TO COORDINATE ALL DOOR SWINGS WITH FLOOR MATERIAL FOR FREE AND CLEAR SWINGS.
 - CONTRACTOR TO FLASH PATCH ALL FLOORS AS REQUIRED TO SATISFY ALL ASSEMBLY AND INSTALLATION REQUIREMENTS.
 - CLEAN ALL GROUT FROM VGT FLOORING INSTALLATION AND PROVIDE ONE COAT OF MANUFACTURERS APPROVED POLISHED WAX FINISH.
 - FLASH PATCH AT ALL TRANSITIONS.
 - ALL GROUT TO BE EPOXY BASED (NOT CEMENT BASED) UNLESS OTHERWISE NOTED.
 - ALL VINYL WALL BASE SHALL BE PROVIDED IN CONTINUOUS RUNS.
- WALL FINISH NOTES**
- REFER TO 61.2 FOR ADDITIONAL NOTES AND THIS SHEET FOR FINISH SPECIFICATIONS.
 - ALL MATERIALS SHALL BE APPLIED IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURERS' RECOMMENDATIONS.
 - ALL EXISTING METAL DOORS AND FRAMES TO BE BRUSHED, SANDED AND FILLED AS REQUIRED FOR A "LIKE NEW" APPEARANCE AND SUBJECT TO ARCHITECT'S APPROVAL. IN FIELD, DOORS TO BE PROPERLY PRIMED PRIOR TO RECEIVING FINAL FINISH PAINT GRADE.
 - ALL FIRE EXTINGUISHER CABINETS AND FIRE STANDPIPE CABINETS TO BE PRIMED AND PAINTED IN A SEMI-GLOSS FINISH TO MATCH THE WALL FINISH IN WHICH THEY OCCUR UNLESS OTHERWISE NOTED.
 - CONTRACTOR TO VERIFY EXISTING CONDITION OF PERIMETER WINDOW-SYSTEM SILLS AND BASE MULLIONS AT START OF CONSTRUCTION AND REPAIR TO "LIKE NEW" CONDITION.
 - THERE SHALL BE A MINIMUM NUMBER OF (1) PRIMER COAT AND (2) FINISH COATS. MAXIMUM NUMBER OF COATS SHALL BE AS REQUIRED TO OBTAIN UNIFORM COLOR AND SHEEN.

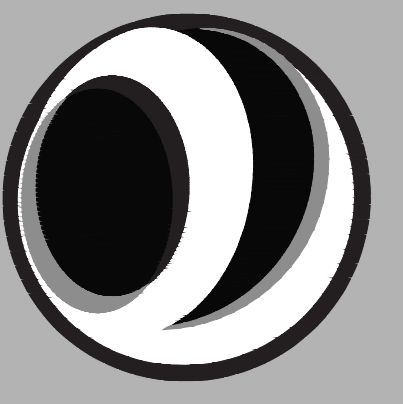
FINISH KEY NOTES

- MATCH EXISTING CORRIDOR FINISHES. COORDINATE WITH BUILDING MANAGEMENT TO MATCH SPECIFICATIONS AND TO PROVIDE FINISHES FOR FUTURE TENANT SIDE OF NEW ENTRANCE.



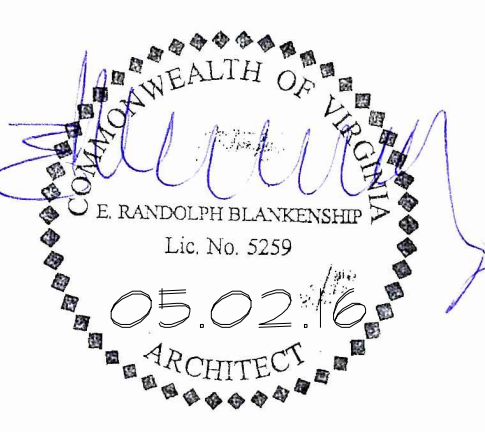
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FINISHES

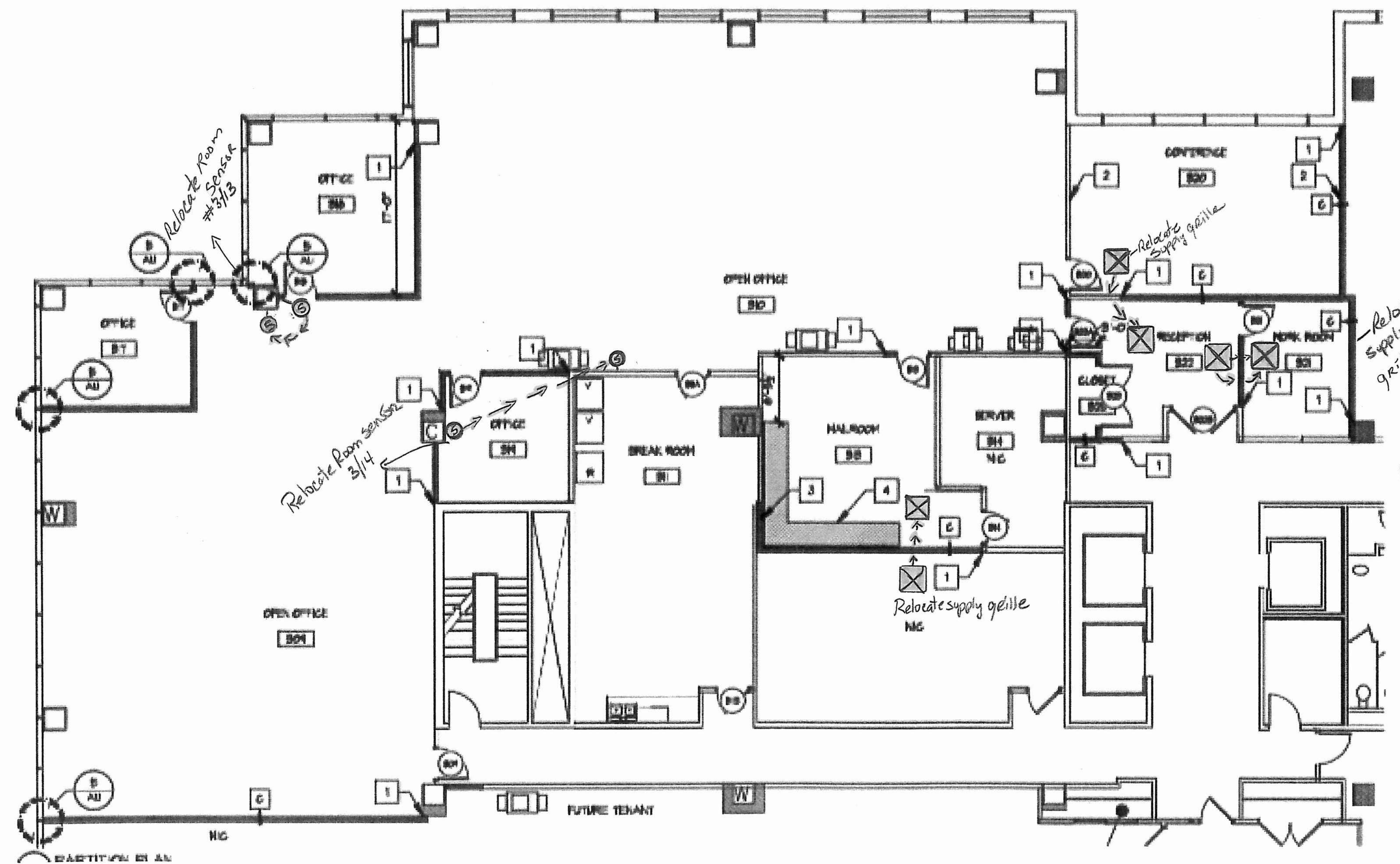
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Mechanical Plan Boulders III 1100 Boulders Parkway, Suite 300 Richmond, Virginia

- ⊙ → Room Temperature Thermostat's gty(2)
- ⊠ → move existing supply (S) grilles to fit new floorplan



Boulders III
1100 Boulders Parkway, Suite 300
Richmond, VA

REVISIONS:

DATE: 4/18/2016

M 01

Drawing Index	
E 01	INDEX, PROJECT INFO, LEGEND
E 02	ELECTRIC LAYOUT
E 03	LIGHTING LAYOUT
E 04	FIRE STOP DETAILS

Electrical Plan

Boulders III

1100 Boulders Parkway, Suite 300

Richmond, Virginia

TRIBBLE ELECTRIC
 1575 MOUNTAIN ROAD
 GLEN ALLEN, VA 23060
 804 266-4385

STEVEN R. TRIBBLE
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 327
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Boulders III
 1100 Boulders Parkway, Suite 300
 Richmond, VA

Electrical Details
 And Schedules

REVISIONS:

DRAWN BY: WJT

PROJECT NO.: 900

DATE: 4/18/2016

E 01
 1 OF 4

LEGEND

SYMBOL	DESCRIPTION
LAUNDRY	ROOM NAME/NUMBER
①	PLAN NOTE
U.O.N.	UNLESS OTHERWISE NOTED
A.F.F.	ABOVE FINISHED FLOOR
TYP.	TYPICAL
— —	STRIP TYPE FLUORESCENT FIXTURE – SEE LIGHTING FIXTURE SCHEDULE
□	1' X 4' FLUORESCENT FIXTURE – SEE LIGHTING FIXTURE SCHEDULE
○	INCANDESCENT, HID OR COMPACT FLUORESCENT FIXTURE, CEILING MOUNTED – SEE LIGHTING FIXTURE SCHEDULE
○ OR □	INCANDESCENT, HID OR COMPACT FLUORESCENT FIXTURE, WALL MOUNTED – SEE LIGHTING FIXTURE SCHEDULE VERIFY MOUNTING HEIGHT WITH ARCHITECT.
⌋	EMERGENCY LIGHT FIXTURE WITH TWIN ADJUSTABLE HEADS, WALL MOUNTED.
⌋	COMBINATION EXIT LIGHT AND EMERGENCY LIGHT WITH TWO ADJUSTABLE HEADS AND BATTERY POWER PACK, UNSWITCHED, AND UNIVERSAL ARROWS AND MOUNTED AS INDICATED ON PLAN.
⌋	EXIT LIGHT, CEILING MOUNTED, EQUIPPED WITH BATTERY POWER PACK, UNSWITCHED, WITH ARROWS AS INDICATED.
●	SOLID CIRCLE INDICATES FIXTURE EQUIPPED WITH A BATTERY POWER PACK, CONNECTED AHEAD OF LOCAL SWITCHES.
S	SWITCH, SINGLE POLE, SINGLE THROW, SIDE WIRED, TOGGLE, 120–277V, 20A, 48" AFF
S ³	SWITCH, 3-WAY, SIDE-WIRED, TOGGLE, 120–277 VOLT, 20A, 48" A.F.F.
□	DISCONNECT SWITCH, NON-FUSED UNLESS OTHERWISE NOTED OR UNLESS REQUIRED BY MANUFACTURER OR CODE. ALL DISC SW'S EXPOSED TO WATER OR LOCATED OUTSIDE SHALL BE NEMA TYPE 3R UNLESS OTHERWISE NOTED
△	DATA STUB ABOVE CEILING WITH PULL STRING.
▲	COAX OUTLET, +18" A.F.F. (U.O.N.)
▲	COAX, DATA OUTLET, +18" A.F.F. (U.O.N.)
W.P.	GROUND FAULT INTERRUPTER, DUPLEX RECEPTACLE, 125V, 15A, BOTTOM 2" ABOVE TOP OF BACKSPASH OR AS NOTED.
▶	CAMERA. RG59 AND 18/2 BACK TO DVR LOCATION. EACH CAMERA TO BE A SEPERATE HR.

LEGEND-CONT.

SYMBOL	DESCRIPTION
⊖	SPECIAL OUTLET – SEE PANEL SCHEDULE FOR SIZE.
—	120/208 VOLT PANELBOARD (P/BD)
J	JUNCTION BOX
⊗	ELECTRIC MOTOR
■	FIRE ALARM CONTROL PANEL (FACP)
F	FIRE ALARM PULL STATION AND FLUSH MOUNTED WALL BOX AT +48" AFF.
◁F	FIRE ALARM STROBE LIGHT SIGNAL DEVICE, +80" AFF.
▷F	FIRE ALARM COMBINATION STROBE LIGHT AND HORN SIGNAL DEVICE, +80" AFF.
⊕	SMOKE DETECTOR–FIELD LOCATE BY ARCHITECT
H	HEAT DETECTOR – 135 DEGREES F HIGH LIMIT (UON). BRANCH CIRCUIT WIRING RUN CONCEALED IN WALLS, CEILING, FLOOR (PROVIDE CONDUIT WHERE RUN IN CONCRETE SLAB OR UNDERGROUND OR EXPOSED). TYPE NM COPPER CABLE 12-2 WITH GROUND (MINIMUM) EXCEPT RUN SEPARATE CONDUCTORS WHERE INSTALLED IN CONDUIT. ARROW INDICATES HOMERUN. SEE SHEET E-8 FOR DEATILS.
↖	DECORATIVE WALL SCONCE. VERIFY HEIGHT WITH ARCHITECT. SEE LIGHTING FIXTURE SCHEDULE.
⊕	RECEPTACLE, DUPLEX, 125V AC, 15A, 18" AFF (U.O.N.), WITH TOP HALF SWITCHED.
⊕	RECEPTACLE, DUPLEX, 125V AC, 20A, 18" AFF (U.O.N.)
⊕	GROUND FAULT INTERRUPTER, DUPLEX RECEPTACLE, 125V, 20A, BOTTOM 2" ABOVE TOP OF BACKSPASH OR AS NOTED.
⊙	CABLE TV OUTLET. PROVIDE COVERPLATE AND ACCESSORIES AS REQUIRED. VERIFY WITH ARCHITECT. ALSO VERIFY MOUNTING HEIGHT AND EXACT LOCATION.

LEGEND AND PLAN NOTES

- ALL DEVICES AND COVER PLATES SHALL BE WHITE/WHITE.
- ALL NOTATIONS ON THE LEGEND MAY NOT BE USED ON THESE PLANS.
- VERIFY MOUNTING HEIGHT OF ALL DEVICES PRIOR TO INSTALLATION.
- NUMBER NEXT TO REC/LIGHT DENOTES CIRCUIT NUMBER.
- ALPHABET NEXT TO FIXTURE DENOTES FIXTURE TYPE.
- WIRING TO BE TYPE MC CABLE, EMT, PCV.
- MAINTAIN ALL FIRE RAITINGS OF WALLS AND CEILING.
- ALL EM BALLAST AND EXIT LIGHTS TO BE AHEAD OF SWITCH.

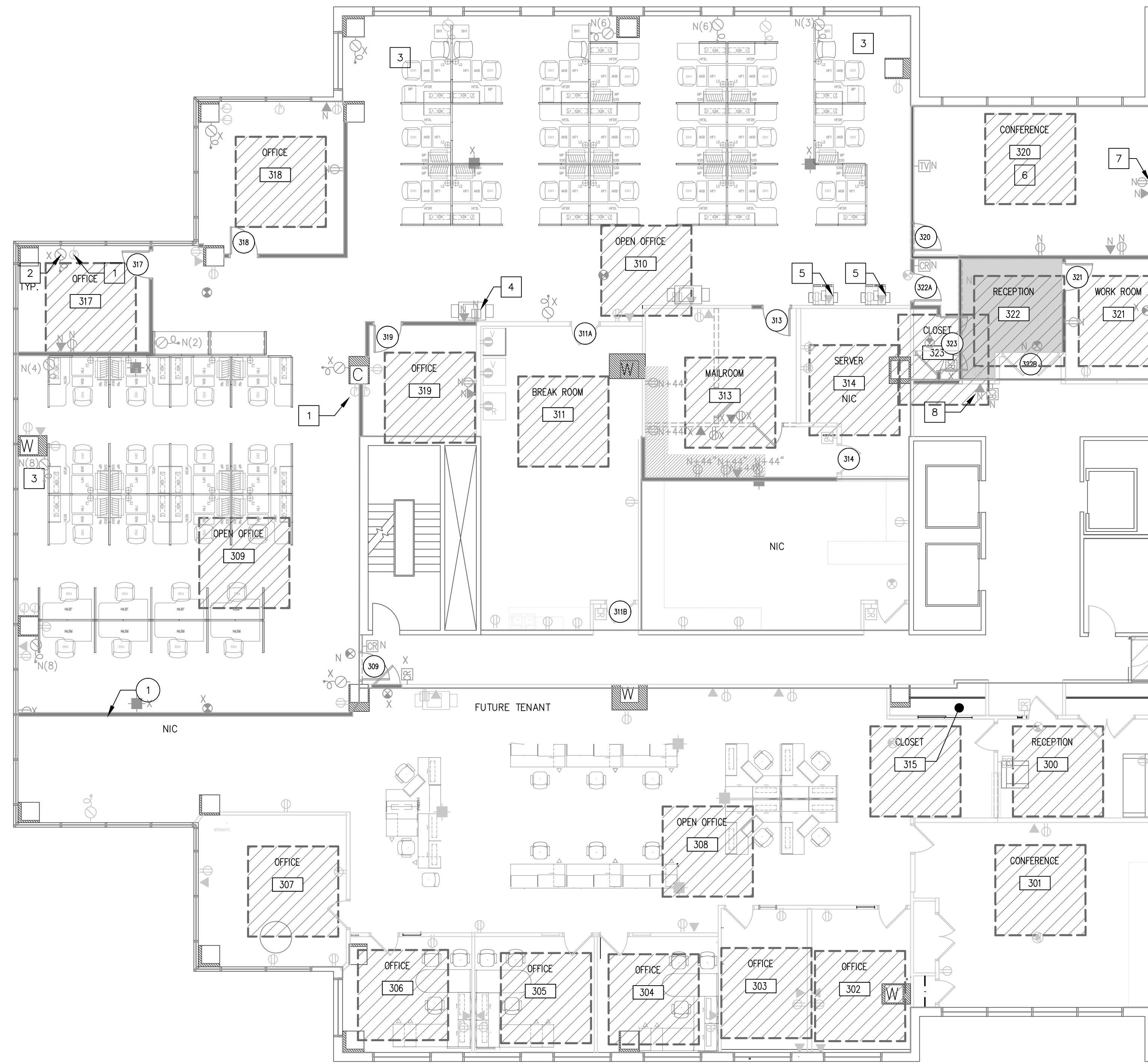
POWER/VOICE AND DATA LEGEND

SYMBOL	DESCRIPTION
⊖	DUPLEX RECEPTACLE, 20 AMP.
⊖	DEDICATED RECEPTACLE FOR COPIERS. COORDINATE REQUIREMENTS WITH VENDOR
▲	SINGLE GANG BOX FOR VOICE & DATA CONNECTION. PROVIDE CONDUIT TO ACCESS POINT ABOVE FINISHED CEILING. PROVIDE PULL STRINGS FROM BOX TO ACCESS POINT ABOVE CEILING.
⊖ (#)	WALL MOUNTED JBOX FOR POWER AND DATA FOR FURNITURE SYSTEMS BASE FEED. FURNITURE VENDOR TO PROVIDE ELECTRICAL BASE FEED. ELECTRICIAN TO HARDWIRE. (#) IDENTIFIES QUANTITY OF WORKSTATIONS TO BE FED
* (#)	POWER POLE TO SYSTEMS FURNITURE TO ACCOMMODATE POWER AND CAT-6 VOICE/DATA CABLING. POWER POLE TO BE PROVIDED BY FURNITURE MANUFACTURER. CONTRACTOR TO PROVIDE JUNCTION BOX IN CEILING FOR POWER POLE. COORDINATE EXACT LOCATION WITH FURNITURE DEALERSHIP. (#) IDENTIFIES QUANTITY OF WORKSTATIONS TO BE FED.
⊖	BLANK JUNCTION BOX
+ 18"	INDICATED HEIGHT ABOVE FINISHED FLOOR
□	CARD READER COORDINATE REQUIREMENTS WITH SECURITY VENDOR, COORDINATE MOUNTING HEIGHT WITH TENANT, ADA-COMPLIANT
TV	PROVIDE NEW DUPLEX OUTLET AND DATA ACCESS WHERE INDICATED. COORDINATE EXACT HEIGHT AND LOCATION WITH TENANT.
N	INDICATES NEW

REFLECTED CEILING LEGEND:

SYMBOL	DESCRIPTION
□	EXISTING BUILDING STANDARD CEILING GRID AND TILE TO REMAIN.
□	NEW CEILING GRID AND TILE TO MATCH ADJACENT EXISTING CEILING GRID AND TILE.
○	EXISTING BUILDING STANDARD 2x4 FLUORESCENT FIXTURE TO BE REMOVED
○	EXISTING BUILDING STANDARD 2x4 FLUORESCENT FIXTURE TO REMAIN
⊖	RELOCATED BUILDING STANDARD 2x4 FLUORESCENT FIXTURE
⊖	EXISTING BUILDING STANDARD 2x4 EMERGENCY BACKUP FLUORESCENT FIXTURE N INDICATES NEW
⊕	EXIT SIGN, FOR REFERENCE ONLY. SEE DESIGN BUILD MEP DRAWINGS FOR LOCATIONS.
N	INDICATES NEW
X	INDICATES ITEM TO BE REMOVED

Project Information		
Building Code Year: 2012	Electrical Code Year: 2011	Construction Type:
Use Group:	Change of Use: No	Occupancy Load:
Is project in flood plain: No	BFE per FIRM: N/A	DFE: N/A
Square Footage of Project:	Total Square Footage of building:	.



Electrical Third Floor

SCALE 1/8" = 1'

TRIBBLE ELECTRIC
 1575 MOUNTAIN ROAD
 GLEN ALLEN, VA 23060
 804 266-4385

STEVEN R. TRIBBLE
 MASTER ELECTRICIAN
 327
 CLASS A CONTRACTOR
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Boulders III
 1100 Bluders Parkway, Suite 300
 Richmond, VA

3rd Floor

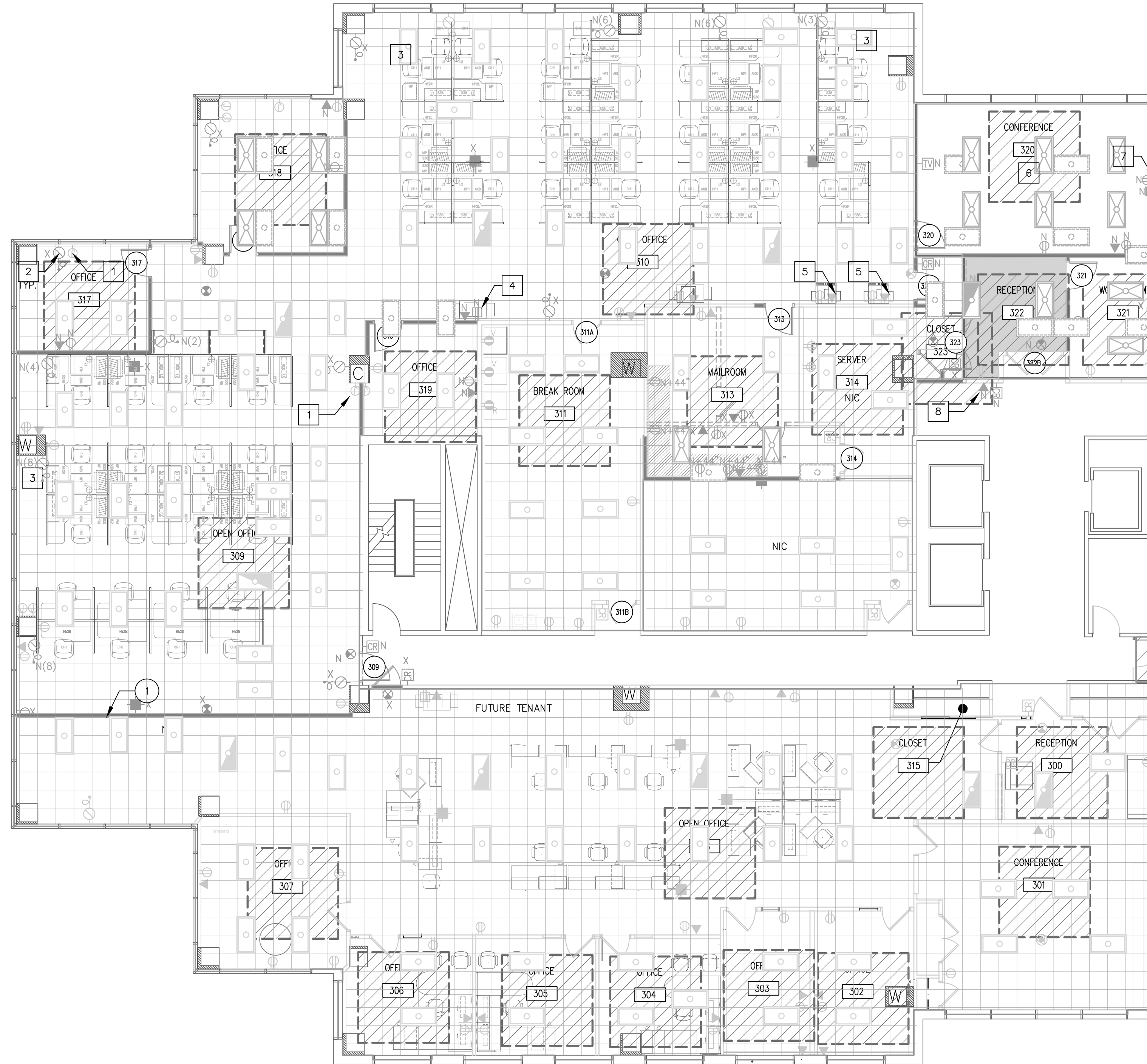
REVISIONS:

DRAWN BY: WJT

PROJECT NO.: 900

DATE: 4/18/2016

E 02
 2 OF 4



Lighting Third Floor
SCALE 1/8" = 1'

TRIBBLE ELECTRIC
1575 MOUNTAIN ROAD
GLEN ALLEN, VA 23060
804 266-4385

STEVEN R. TRIBBLE
MASTER ELECTRICIAN
327
CLASS A CONTRACTOR
2701034592A

Boulders III
1100 Bluders Parkway, Suite 300
Richmond, VA

3rd Floor

REVISIONS:

DRAWN BY: WJT

PROJECT NO.: 900

DATE: 4/18/2016

E 02
2 OF 4

System No. C-AJ-3095
F Rating - 3 Hr
T Ratings - 0, 1/2 and 3/4 Hr (See Item 3)

1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 2400 kg/m³) concrete floor or min 3 in. (76 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. (152 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
 2. Sleeve — (Optional) — Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max 3 in. (76 mm) above the floor or both surfaces of the wall. If the steel sleeve extends above the floor or both surfaces of the wall, the T Rating of the firestop system is 0 Hr.
 3. Cables — Aggregate cross-sectional area of cables in opening to be min 25 percent to max 45 percent of the aggregate cross-sectional area of the opening. Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of metallic conductor or fiber optic cable may be used:
 A. Max 500 kcmil single copper conductor power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket. When single copper conductor power cable is used, T Rating is 0 hr.
 B. Max 350 kcmil single conductor power cables with either aluminum or copper conductors and cross-linked polyethylene (XLPE) insulation. When single aluminum conductor power cable is used, T Rating is 0 hr. When single copper conductor power cable is used, T Rating is 1/2 hr.
 C. Max 300 pair No. 24 AWG copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket material. When telecommunication cable is used, T Rating is 0 hr.
 D. Max three copper conductor No. 6 AWG cable with polyvinyl chloride (PVC) insulation and jacket material. When multi-conductor power cable is used, T Rating is 0 hr.
 E. Max 7/C copper conductor No. 12 AWG multiconductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket. When multiconductor power and control cable is used, T Rating is 3/4 hr.
 F. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in. When fiber optic cable is used, T Rating is 3/4 hr.
 G. Max 3/C copper conductor No. 12 AWG with Bare aluminum ground, polyvinyl chloride (PVC) insulated steel, Metal-clad cable+. When MC cable is used, T Rating is 0 hr.
 H. Max 3/C with ground 2/0 AWG copper conductor SER cable with cross-linked polyethylene (XLPE) insulation and polyvinyl chloride (PVC) jacket. When SER cable is used, T Rating is 0 hr.

HILTI Firestop Systems
 Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. May 29, 2008
 Page: 1 of 2

System No. C-AJ-3095
F Rating - 3 Hr
T Ratings - 0, 1/2 and 3/4 Hr (See Item 3)

I. Max RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diameter of 1/2 in. When coaxial cable is used, T Rating is 0 hr.
 J. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other type of cable. When Fire Resistive Cables* are used, T Rating is 0 hr.
 K. Through Penetrating Product* — Any Cables, Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products category. See Through Penetrating Product (XHL) category in the Fire Resistance Directory for names of manufacturers.
 4. Packing Material — Min 2 in. (51 mm) thickness of min 4.0 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed 1/2 in. (13 mm) from top surface of floor or from both surfaces of wall as required to accommodate the fill material. If the steel sleeve (Item 2) extends above the top of the floor, the packing material shall be flush with the bottom surface of the floor.
 5. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant.
 *Bearing the UL Classification Mark
 *Bearing the UL Listing Mark

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System No. F-C-3012
F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 1 and 1-3/4 Hr (See Item 3)

1. Floor-Ceiling Assembly — The 1 or 2 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
 A. Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening for 1 or 2 hr assembly is 2-1/2 in. (64 mm) or 2 in. (51 mm), respectively.
 B. Wood Joists* — Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends freestopped.
 C. Furring Channels — (Not Shown) — (As required) - Resilient galvanized steel furring installed in accordance with the manner specified in the individual L500 Series Designs in the Fire Resistance Directory.
 D. Gypsum Board* — Thickness, type, number of layers and fasteners shall be as specified in the individual Floor-Ceiling Design. Max diam of opening for 1 or 2 hr assembly is 2-1/2 in. (64 mm) or 2 in. (51 mm), respectively.
 The F Rating of the firestop system is equal to the rating of the floor-ceiling assembly.
 2. Chase Wall — (Optional) - The through penetrant (Item 3) shall be routed through a fire-rated single, double or staggered wood stud/gypsum wallboard chase wall having a fire rating consistent with that of the floor-ceiling assembly. The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 A. Studs — Nom 2 by 6 in. (51 by 152 mm) or double nom 2 by 4 in. (51 by 102 mm) lumber studs.
 B. Sole Plate — Nom 2 by 6 in. (51 by 152 mm) or parallel 2 by 4 in. (51 by 102 mm) lumber plates, lightly butted. Max diam of opening for 1 or 2 hr rated assembly is 2-1/2 in. (64 mm) or 2 in. (51 mm), respectively.
 C. Top Plate — The double top plate shall consist of two nom 2 by 6 in. (51 by 152 mm) or two sets of parallel 2 by 4 in. (51 by 102 mm) lumber plates, lightly butted. Max diam of opening for 1 or 2 hr rated assembly is 2-1/2 in. (64 mm) or 2 in. (51 mm), respectively.
 D. Gypsum Board* — Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.

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System No. F-C-3012
F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 1 and 1-3/4 Hr (See Item 3)

3. Cables — In 1 hr fire-rated assemblies, aggregate cross-sectional area of cables in opening to be max 45 percent of the cross-sectional area of the opening (max 2 in. (51 mm) diam bundle). Cables to be rigidly supported on both sides of floor assembly. Any combination of the following types and sizes of copper conductors may be used:
 A. Bx 59 coaxial cable with single copper conductor, cellular polyethylene cellular foam insulation and polyvinyl chloride (PVC) jacket.
 B. Max 8/C No. 22 AWG telephone cable with polyvinyl chloride (PVC) jacketing.
 C. Max 2/C No. 12 AWG cable with polyvinyl chloride (PVC) insulation and jacketing.
 D. Max 3/C with ground No. 2/0 AWG aluminum or copper Type SER cable with polyvinyl chloride (PVC) insulation.
 E. Max 3/C with ground No. 2/0 AWG Type NM cable with polyvinyl chloride (PVC) insulation.
 F. Max 3/C No. 12 AWG MC (BX) cable with polyvinyl chloride (PVC) insulation.
 G. Max 1 in. diam metal clad TEK cable with PVC jacket.
 H. Max 4/C with ground No. 300 kcmil (or smaller) aluminum SER cable with PVC insulation and jacket.
 I. Through Penetrating Product* - Any cables, Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products category. See Through Penetrating Product (XHL) category in the Fire Resistance Directory for names of manufacturers.
 The T Rating is 1 and 1-3/4 hr for 1 and 2 hr rated assemblies, respectively, for cables 3A through 3G. The T Rating is 0 hr for cables 3H and 3I.
 4. Fill, Void or Cavity Material* — Sealant — Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with top surface of floor or sole plate. Min 5/8 in. (16 mm) thickness of fill material also applied within the annulus, flush with bottom surface of ceiling or lower top plate.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS611A Sealant or FS-One Sealant
 *Bearing the UL Classification Mark

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System No. W-L-3065

ANSI/UL1479 (ASTM E814)	CANULC S115
F Rating — 1 and 2 Hr (See Item 1)	F Rating — 1 and 2 Hr (See Item 1)
T Rating — 0 and 3/4 Hr (See Item 3)	FT Rating — 0 and 3/4 Hr (See Item 3)
L Rating At Ambient — 15 CFM/sq ft	FH Rating — 1 and 2 Hr (See Item 1)
L Rating At 400 F — 8 CFM/sq ft	FTH Rating — 0 and 3/4 Hr (See Item 3)
	L Rating At Ambient — 15 CFM/sq ft
	L Rating At 400 F — 8 CFM/sq ft

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
 B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Max diam of opening is 5-1/2 in. (138 mm) when sleeve (Item 2) is employed. Max diam of opening is 4 in. (102 mm) when sleeve (Item 2) is not employed.
 The F, FH Ratings of the firestop system are equal to the fire rating of the wall assembly.
 2. Metallic Sleeve — (Optional) - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or Schedule 5 (or heavier) steel pipe or min 0.016 in. thick (0.41 mm, No. 28 ga) galv steel sleeve installed flush with wall surfaces. The annular space between steel sleeve and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1 in. (25mm). When Schedule 5 steel pipe or EMT is used, sleeve may extend up to 18 in. (457 mm) beyond the wall surfaces. As an option when Schedule 5 steel pipe or EMT is used, sleeve may extend continuously beyond one wall surface. When cable bundle penetrates wall assembly at an angle of 45 degrees, no metallic sleeve is used.

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System No. W-L-3065

3. Cables — Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact) to max 1 in. (25 mm). When sleeve is continuous on one side of wall (see Item 2), the cable fill may be 0 to 45% and the max annular space is not limited. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of copper conductor cables may be used:
 A. Max 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
 B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket.
 C1. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables.
 C2. Type RG/U coaxial cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of 1/2 in. (13 mm).
 C3. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.
 D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in. (16 mm).
 E. Through Penetrating Products* — Max three copper conductor No. 8 AWG Metal-Clad Cable+.
 AFC CABLE SYSTEMS INC
 F. Max 3/C (with ground)(or smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing.
 G. Max 3/4 in. (19 mm) diam copper ground cable with or without a PVC jacket.
 H. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable.
 I. Max 4/C with ground 300 kcmil (or smaller) aluminum SER cable with PVC insulation and jacket.
 J. Through Penetrating Product* - Any cables, Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products category.
 K. Maximum 3/C No. 8 AWG metal-clad cable.
 L. Maximum 5/8 diam fiber-optic cable with PVC jacket.
 For cable bundle penetrating the wall assembly at an angle of 45 degrees, the T, FT, FTH Ratings are 0 hr and 3/4 hr for 1 and 2 hr wall assemblies, respectively.
 See Through Penetrating Product (XHL) category in the Fire Resistance Directory for names of manufacturers.
 4. Fill, Void or Cavity Material* — Sealant or Putty — Fill material applied within the annulus, flush with each end of the steel sleeve or wall surface. Fill material installed symmetrically on both sides of the wall. A min 5/8 in. (16 mm) thickness of sealant is required for the 1 or 2 hr F Rating. An additional 1/2 in. (13 mm) diam bead of fill material shall be applied at the interface of sleeve with gypsum board.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S, CP606, FS-One Sealants or FS-ONE MAX Intumescent Sealant or CP618 Putty
 5. Packing Material — (Optional, Not Shown) — Mineral wool forming material may be used as a backer for the fill material (Item 4). When used, it shall be firmly packed into annular space within the sleeve as a permanent form and recessed from end of sleeve to accommodate the required thickness of fill material.
 * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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FIRE STOP DETAILS

REVISIONS:

DRAWN BY: WJT

PROJECT NO.: 900

DATE: 4/18/2016

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FIRE STOP DETAILS
 SCALE NONE