

CORNELL UNIVERSITY EAST CAMPUS RESEARCH FACILITY TRANSGENIC MOUSE CORE RELOCATION

EAST CAMPUS RESEARCH FACILITY
ITHACA, NY 14850



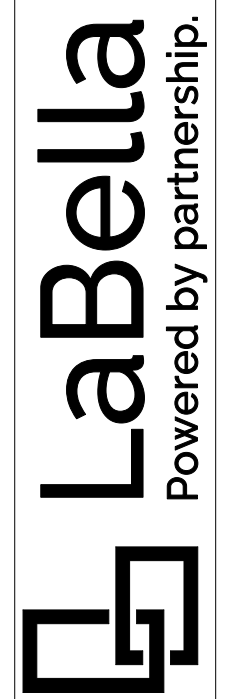
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PROJECT STATUS: BID
ISSUE DATE: 03/18/24

CLIENT: Cornell University
PROJECT #: 2232366

PROJECT NAME: EAST CAMPUS RESEARCH FACILITY
TRANSGENIC MOUSE CORE RELOCATION
PROJECT ADDRESS: EAST CAMPUS RESEARCH FACILITY



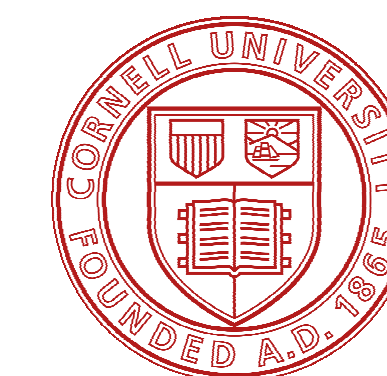


CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

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Cornell University
Ithaca, NY



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TRANSGENIC MOUSE
CORE RELOCATION**
EAST CAMPUS RESEARCH FACILITY

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Revisions		

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REVIEWED BY: RJP

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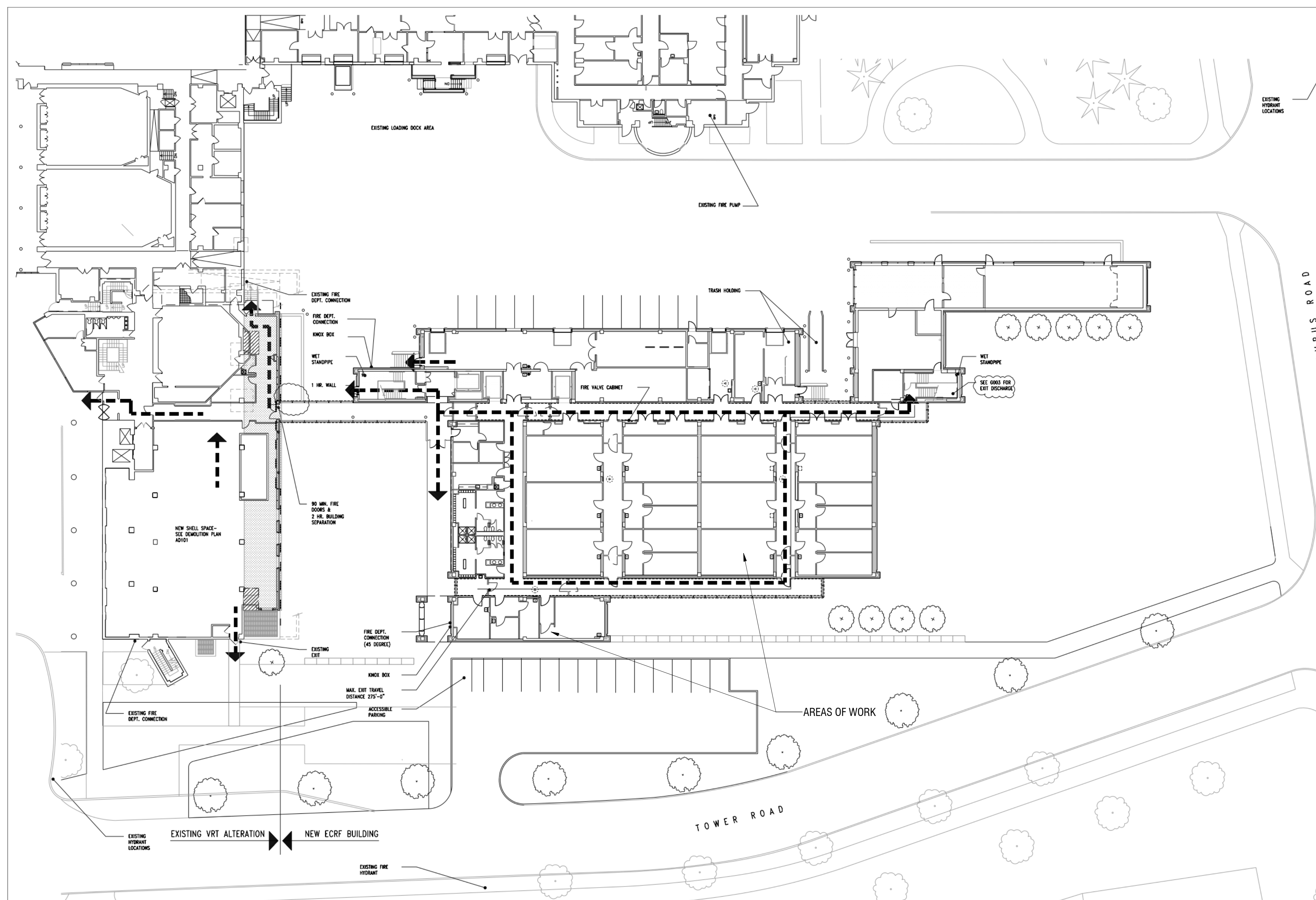
DATE: 03/18/24

DRAWING NAME:

**CODE COMPLIANCE AND LIFE
SAFETY PLAN**

DRAWING NUMBER:

G002



ECRF BUILDING CLASSIFICATION:

BUILDING CODE OF NEW YORK STATE:

- USE GROUP CLASSIFICATION: (B) Business
- CONSTRUCTION TYPE: IA (Table 603 - Non Combustible Protected)
- BUILDING LIMITATIONS: Allowable Floor Area: 37,200 g.s.f.
Actual Floor Area: First Floor = 26,439 g.s.f., Second Floor = 21,194 g.s.f., Third Floor = 11,327 g.s.f., Fourth Floor = 11,878 g.s.f., Elevator Machine Room = 1074 g.s.f.
- ALLOWABLE HEIGHT: Height = 5 stories, 65 feet
6 stories, 65 feet (Exception 504.2)
- ACTUAL HEIGHT: Height = 4 stories, 77 feet
- FIRE PROTECTION: Fully Sprinklered
- FIRE PROTECTION RATING OF INDIVIDUAL ELEMENTS (SEE ITEM 10, NOTE 3):

BUILDING ELEMENT	RATING
EXTERIOR WALL:	
FIRE SEPARATION DISTANCE < 30'-0"	1 HR
FIRE SEPARATION DISTANCE > 30'-0"	0 HR
STRUCTURAL COLUMNS (INCLUDING INTERMEDIATE BRACING)	1 HR
FLOOR CONSTRUCTION	1 HR
ROOF CONSTRUCTION:	
STEEL STRUCTURE ABOVE 20'-0" A.F.F.	0 HR
METAL DECKING	1 HR
CONCRETE CONSTRUCTION	1 HR
STAIRWAYS	2 HR (SEE ITEM 10, NOTE 1)
ELEVATOR SHAFTS	2 HR
MECHANICAL SHAFTS	1 HR (SEE ITEM 10, NOTE 1)
MECHANICAL / ELECTRICAL ROOMS	1 HR
TRASH HOLDING AREAS	1 HR

6. BUILDING OCCUPANCY:
Design Load: Group B = 100 g.s.f. per occupant
(First Floor = 266 occupants)
Second Floor = 211 occupants
Third Floor = 171 occupants
Fourth Floor = 48 occupants
300 g.s.f./occ. Mechanical Space

7. EGRESS STAIR AND DOOR WIDTH:

FLOOR	Slab Width Required	Actual Slab Width/Capacity
First Floor	4 x 30' Occupancy = 30 in. 283 x .30 = 75.9 in.	380 x .30 = 108 in. 2 Doors @ 28 in. Width/ 108 in. Total
Second Floor	211 x .30 = 63.3 in.	380 x .30 = 108 in. 2 Doors @ 28 in. Width/ 108 in. Total
Third Floor	171 x .30 = 51.0 in.	380 x .30 = 108 in. 2 Doors @ 28 in. Width/ 108 in. Total
Fourth Floor	48 x .30 = 12.3 in.	380 x .30 = 108 in. 2 Doors @ 28 in. Width/ 108 in. Total

8. MEANS OF EGRESS DISTANCE REQUIREMENTS:

ITEM	BUILDING CODE OF NEW YORK STATE
HEAD END CORRIDORS	90'-0"
COMMON PATH OF TRAVEL	100'-0"
LENGTH OF EXIT ACCESS TRAVEL	300'-0"

9. FIRST FLOOR PLUMBING FEATURE COUNT:

FEATURE	REQUIRED COUNT	BUILDING CODE OF NEW YORK STATE
WATER CLOSETS	0	0
URINALS	0	0
LAVATORIES	4	4
DRINKING FOUNTAINS	0	0
WATER CLOSETS	0	0
URINALS	0	0
LAVATORIES	1	1
DRINKING FOUNTAINS	0	0

10. NOTE 1: 2 HOURS CONNECTING FOUR STORES OR MORE AND ONE HOUR CONNECTING LESS THAN FOUR STORES.
NOTE 2: REQUIRED COUNT IS SIX (6) REDUCED BY ONE (1) TO THREE (3) FOR PLUMBING CODE SECTION 410.1. THREE (3) BOTTLED WATER DISPENSERS ARE PROVIDED (ONE IN EACH LOADING). THREE (3) DRINKING FOUNTAINS ARE PROVIDED AT THE SECOND FLOOR NEXT TO ELEVATOR NO. 1.
NOTE 3: STAIRS AND ELEVATOR SHAFTS SHALL BE SUPPORTED BY 2-HOUR FIRE RATED CONSTRUCTION. SUPPORTING CONSTRUCTION IS 2-HOUR RATED. FIRE RESISTANCE RATING OF ELEMENTS SHOWN IN THE TABLE IS AS REQUIRED BY CODE. ALL CAST-IN-PLACE CONCRETE CONSTRUCTION HAS BEEN DESIGNED TO ATTAIN A MINIMUM OF 2-HOUR FIRE RESISTANCE RATING.

2 (VRT) PLAN - FIRST FLOOR ALTERATION
G002 FLOOR AREA OF ALTERATION = 7,529 S.F.
OCCUPANCY = 75

VRT BUILDING CLASSIFICATION:

BUILDING CODE OF NEW YORK STATE:

- USE GROUP CLASSIFICATION: (B) Business
- CONSTRUCTION TYPE: IA (Table 603 - Non Combustible Un-Protected)
- FIRE PROTECTION: Non-Sprinklered
- FIRE PROTECTION RATING OF INDIVIDUAL ELEMENTS:

BUILDING ELEMENT	RATING	REMARKS
EXTERIOR WALL:		
FIRE SEPARATION DISTANCE < 30'-0"	1 HR	
FIRE SEPARATION DISTANCE > 30'-0"	0 HR	

1 (ECRF) PLAN - FIRST FLOOR
G002 FLOOR AREA = 38,149 S.F.
OCCUPANCY = 284

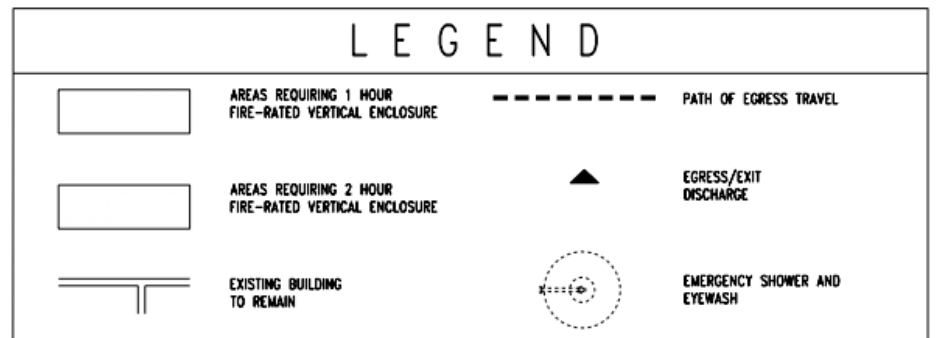
FIREPROOFING SCHEDULE

NEW CONSTRUCTION	D.L. NUMBER	FIRE RATING
CONCRETE SLAB	9.1.4 0916	1-HOUR
FLOOR ROOF SLAB	9.1.4 0916	1-HOUR
STEEL DECK		
STEEL BEAM		
SPRAY ON FIREPROOFING		
STEEL COLUMN	9.1.4 0916	1-HOUR
SPRAY ON FIREPROOFING		

NOTE:
DRAWINGS G002 & G003 REPRESENT THE ORIGINAL CODE REVIEW DRAWINGS FOR THE ECRF BUILDING AT THE TIME IT WAS DESIGNED / BUILT AND ARE FOR REFERENCE ONLY.

THE SCOPE OF THIS PROJECT WILL BE 'ALTERATIONS - LEVEL 2' AS DEFINED IN THE NYS-EBC (EXISTING BUILDING CODE)

- NO CHANGES WILL BE MADE TO THE CURRENT LEVEL OF ACCESSIBILITY
- NO CHANGES WILL BE MADE TO EMERGENCY EGRESS / EXITING
- MINOR CHANGES WILL BE MADE TO THE 'MEANS OF EGRESS' PATHS WITHIN INDIVIDUAL SPACES ONLY



GENERAL NOTES:
SEE REFERENCED PLAN FOR FLOOR FINISHES
SEE REFERENCED PLAN FOR THE BENCH MARK

APPLICABLE BUILDING CODES AND STANDARDS

- BUILDING CODE OF NEW YORK STATE, MAY 2002
- FIRE CODE OF NEW YORK STATE, MAY 2002
- PLUMBING CODE OF NEW YORK STATE, MAY 2002
- FUEL GAS CODE OF NEW YORK STATE, MAY 2002
- MECHANICAL CODE OF NEW YORK STATE, MAY 2002
- ENERGY CONSERVATION CODE OF NEW YORK STATE, MAY 2002
- CORNELL UNIVERSITY DESIGN CRITERIA / FACILITY STANDARDS MANUAL
- AMERICAN WITH DISABILITIES ACT (ADA) STANDARDS
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) STANDARDS
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS
- UNDERWRITERS LABORATORIES INC. (UL) STANDARDS
- FACTORY MUTUAL (FM) STANDARDS
- AMERICAN SOCIETY OF CIVIL ENGINEERS
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- AMERICAN REINFORCING STEEL INSTITUTE
- PORTLAND CEMENT ASSOCIATION
- AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) STANDARDS
- AMERICAN GAS ASSOCIATION (AGA) STANDARDS
- NFPA-13 INSTALLATION OF SPRINKLER SYSTEMS
- NFPA-14 INSTALLATION OF STANDPIPE SYSTEMS
- NFPA-20 CENTRIFUGAL FIRE PUMPS
- NFPA-24 PRIVATE FIRE SERVICE MAINS
- NFPA-70 NATIONAL FIRE CODE
- NFPA-72 NATIONAL FIRE ALARM CODE
- NFPA-70 NATIONAL ELECTRICAL CODE
- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) STANDARDS FOR DISTRIBUTION EQUIPMENT
- INSTITUTE FOR ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE) STANDARDS FOR SWITCHGEAR
- ENERGY PLYCY ACT OF 1992

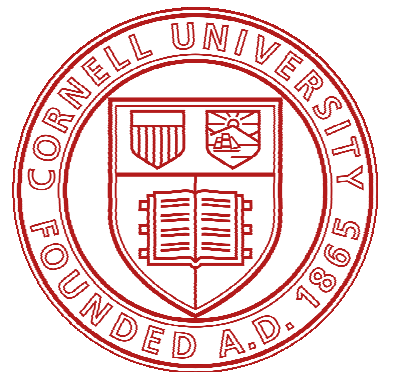


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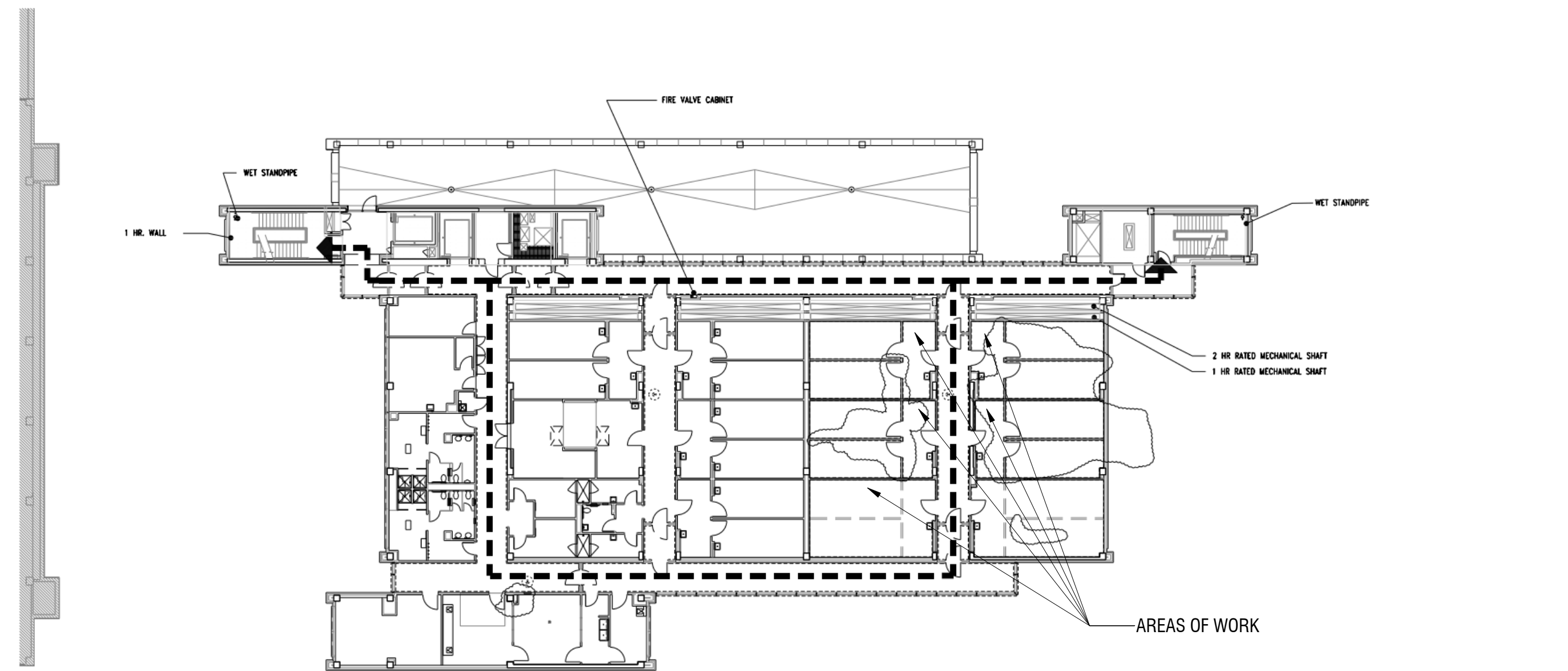
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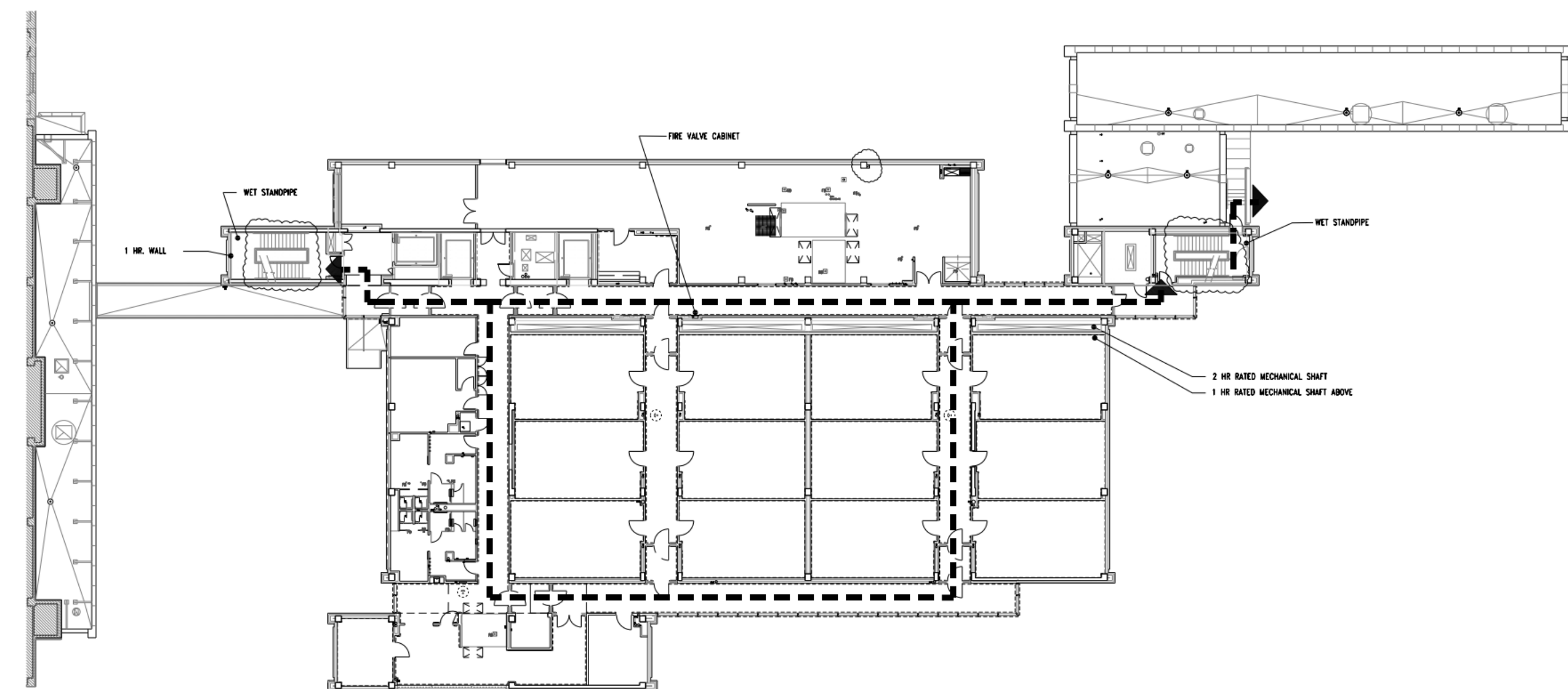
G003



2 PLAN - THIRD FLOOR
0003 FLOOR AREA = 17,127 S.F.
OCCUPANCY = 171

6. THIRD FLOOR PLUMBING FIXTURE COUNT:

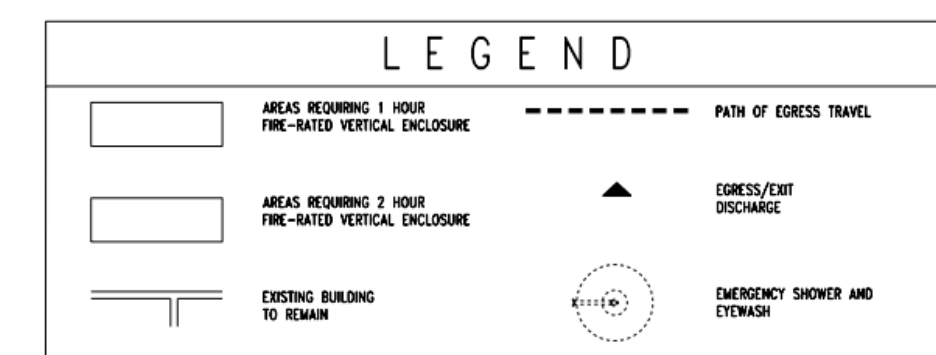
FIXTURE	REQUIRED COUNT PER CODE	PROPOSED FIXTURE COUNT	BUILDING CODE OF NEW YORK STATE
WATER CLOSETS	4	5	5
URINALS	0	1	1
LAVATORIES	2	4	4
DRINKING FOUNTAINS	2 [SEE NOTE 2, DWG 0002]	4 [SEE NOTE 2, DWG 0002]	4 [SEE NOTE 2, DWG 0002]



1 PLAN - SECOND FLOOR
0003 FLOOR AREA = 21,194 S.F.
OCCUPANCY = 211

6. SECOND FLOOR PLUMBING FIXTURE COUNT:

FIXTURE	REQUIRED COUNT PER CODE	PROPOSED FIXTURE COUNT	BUILDING CODE OF NEW YORK STATE
WATER CLOSETS	5	5	5
URINALS	0	1	1
LAVATORIES	4	4	4
DRINKING FOUNTAINS	4 [SEE NOTE 2, DWG 0002]	4 [SEE NOTE 2, DWG 0002]	4 [SEE NOTE 2, DWG 0002]



- GENERAL NOTES:
- SEE FLOOR PLANS FOR F.E. LOCATIONS.
 - SEE ROOF PLAN AT05 FOR THE BACK ANCHORS.

ARCHITECTURAL ABBREVIATIONS

A	A: Area AB: Anchor Bolt ABV: Above ACC: Access ACOUS: Acoustical ACR: Acrylic ACST: Acoustic ACT: Acoustical Tile AD: Access Door ADH: Adhesive ADJ: Adjust, Adjustable, Adjacent AFF: Above Finished Floor AGGR: Aggregate ALT: Alternate ALUM: Aluminum ANOD: Anodized AP: Access Panel APPROX: Approximate ATC: Acoustical Tile Ceiling	G	GA: Gauge, Gage GALV: Galvanized GC: General Contractor GL: Glass GL BLK: Glass Block GRND: Ground GRTS: Grating GVL: Gravel GYP: Gypsum GYP BD: Gypsum Board	P	P_LAM: Plastic Laminate PAR: Parallel PBD: Particle Board PERIM: Perimeter PERP: Perpendicular PL: Plate PLBG: Plumbing PLYWD: Plywood PLUMB: Plumbing PR: Pair PREFAB: Prefabricated PRESS: Pressure PRESS: Pressure PRMLD: Premolded PRTN: Partition PSF: Pounds per square foot PSI: Pounds per square inch PT: Paint PTD: Painted, Paper Towel Dispenser PTD/R: Combination Paper Towel Dispenser/Receptacle PTN: Partition
B	BDRM: Bedroom BETW: Between BF: Board Foot BIT: Bituminous BLDG: Building BLKG: Blocking BOT: Bottom BPL: Bearing Plate BRG: Bearing BRK: Brick BRZ: Bronze BS: Both Sides BSMT: Basement BUR: Built-up Roof	H	HDCP: Handicapped (better called "Accessible") HDW: Hardware HDWD: Hardwood HGT: Height HM: Hollow Metal HORIZ: Horizontal HR: Hour HWD: Hardwood	Q	QUAL: Quality QT: Quarry Tile, Quart QTY: Quantity
C	C/C: Center to Center CAB: Cabinet CARP: Carpet CAV: Cavity CCW: Counter Clockwise CCTV: Closed Circuit TV CEM: Cement CER: Ceramic CF: Cubic Feet CHAM: Chamfer CJ: Control Joint CK: Caulking CL: Centerline CLG: Ceiling CLKG: Caulking CLR: Clear CLR OPN: Clear Opening CMT: Ceramic Mosaic Tile CMU: Concrete Masonry Unit COL: Column CONC: Concrete CONSTR: Construction CONT: Continuous CONTR: Contractor COP: Copper CPR: Copper CPT: Carpet CT: Ceramic Tile CW: Clockwise	I	ID: Inside Diameter IN: Inch INCL: Include INFO: Information INSTL: Install INSUL: Insulation INT: Interior INTERM: Intermediate	R	RB: Rubber Base RCP: Reflected Ceiling Plan RD: Roof Drain, Round, Receptacle Distribution Panel REBAR: Reinforcing Bar REF: Refer, Reference, Refrigerator REFL: Reflected REFR: Refrigerate, Refrigerator REINF: Reinforcement, or Reinforce REQD: Required RESIL: Resilient RF: Roof RSH: Rough RSH OPNG: Rough Opening RO: Rubber Tile RT: Rubber Tile
D	DBL: Double DEG: Degree DEMO: Demolition DF: Drinking Fountain DIAG: Diagonal DIA: Diameter DIAM: Diameter DIFF: Diffuser DN: Down DR: Door DWG: Drawing DWGS: Drawings DWR: Drawer	J	JAN: Janitor JC: Janitor's Closet JT: Joint	S	SALV: Salvage SCHED: Schedule SF: Square Foot SHR: Shower SHT: Sheet SPEC: Specification, Specifications SPEC: Specifications SQ: Square SS: Stainless Steel STC: Sound Transmission Class STD: Standard STL: Steel STOR: Storage STRT: Straight STRUC: Structural SUR: Surface SUSP: Suspended, Suspend
E	EA: Each EB: Expansion Bolt EE: Each End EF: Each Face EIFS: Exterior Insulation and Finish System EJ: Expansion Joint EL: Elevation, Elevator ELEC: Electrical ELEV: Elevator, Elevation ENC: Enclosure EPDM: Ethylene Propylene Diene Monomer EQ: Equal EQUIP: Equipment ETR: Existing To Remain EW: Each Way EXIS: Existing EXH: Exhaust EXIST: Existing EXP: Exposed	L	LAB: Laboratory, Labor LAV: Lavatory LB: Pound (weight) LBL: Label LINO: Linoleum LNTL: Lintel	T	T&B: Top and Bottom T&G: Tongue & Groove TB: Towel Bar TD: Trench Drain TERR: Terrazzo THK: Thickness THRU: Through TLT: Toilet TPD: Toilet paper Dispenser TPH: Toilet Paper Holder TPTN: Toilet Partition TYP: Typical TZ: Terrazzo
F	FB: Face Brick FD: Floor drain FDC: Fire Department Connection FDN: Foundation FDTN: Foundation FE: Fire Extinguisher FEC: Fire Extinguisher Cabinet FFE: Finished Floor Elevation FF&E: Fixtures, Furnishings & Equipment FFL: Finished Floor Line FGL: Fiberglass FHC: Fire Hose Cabinet FIN: Finish, finished FIXT: Fixture FL: Floor FLR: Floor FOS: Face of Finish FP: Fireproof FRT: Fire Retardant FT: Foot, Feet FTG: Footing, Fitting FURN: Furnish, Furniture FURR: Furring	M	MAINT: Maintenance MAN: Manual MAR: Marble MARB: Marble MAS: Masonry MAT: Material MATH: Material MAX: Maximum MECH: Mechanical MEMB: Membrane MFD: Manufactured MFG: Manufacturer, Manufacturing MFR: Manufacture, Manufacturer MI: Malleable Iron, Miles MIKE: Microphone MIN: Minimum MIR: Mirror MISC: Miscellaneous MK: Mark ML&P: Metal Lath & Plaster MLD: Molding MLDG: Millimeter MM: Membrane MO: Masonry Opening MOD: Module MONO: Monolithic MOV: Movable MP: Metal Acoustical Panel MPS: Medium Pressure Steam MR: Mop Receptor MRD: Metal Roof Deck MT: Mount, Mounted MTD: Mounted MTL: Material, Metal MTR: Motor MUL: Mullion MULL: Mullion MV: Mercury Vapor MWP: Maximum Working Pressure MWK: Millwork	U	UNFIN: Unfinished UNO: Unless Noted Otherwise UNO: Unless Otherwise Noted UP: Unpainted UR: Urinal
G	GA: Gauge, Gage GALV: Galvanized GC: General Contractor GL: Glass GL BLK: Glass Block GRND: Ground GRTS: Grating GVL: Gravel GYP: Gypsum GYP BD: Gypsum Board	N	N: North, Nitrogen NAP: Napkin NAT: Natural NATL: Natural NB: Existing NC: Normally Closed, Noise Criteria NEC: National Electrical Code NEUT: Neutral NF: Near Face NFWH: Non-freeze Wall Hydrant NI: Nickel NIC: Not In Contract NK: Neck NMT: Non-Metallic NO: Number, Normally Open NOM: Nominal NR: Noise Reduction NRC: Noise Reduction Coefficient NTS: Not To Scale	V	VAT: Vinyl Asbestos Tile VBC: Vinyl Base (Covered) VCT: Vinyl Composition Tile VERT: Vertical VEST: Vestibule VFI: Verify In the Field VT: Vinyl Tile VTR: Vent Through Roof VWC: Vinyl Wall Covering
H	HDCP: Handicapped (better called "Accessible") HDW: Hardware HDWD: Hardwood HGT: Height HM: Hollow Metal HORIZ: Horizontal HR: Hour HWD: Hardwood	O	OB: Obscure OBS: Obscure OC: On Center OD: Outside Diameter OF: Outside Face OFF: Office OH: Overhead OHD: Overhead Door OPNG: Opening OPP: Opposite OPP H: Opposite Hand	W	W: With WO: Without WAIN: Wainscot WC: Watercloset WD: Wood

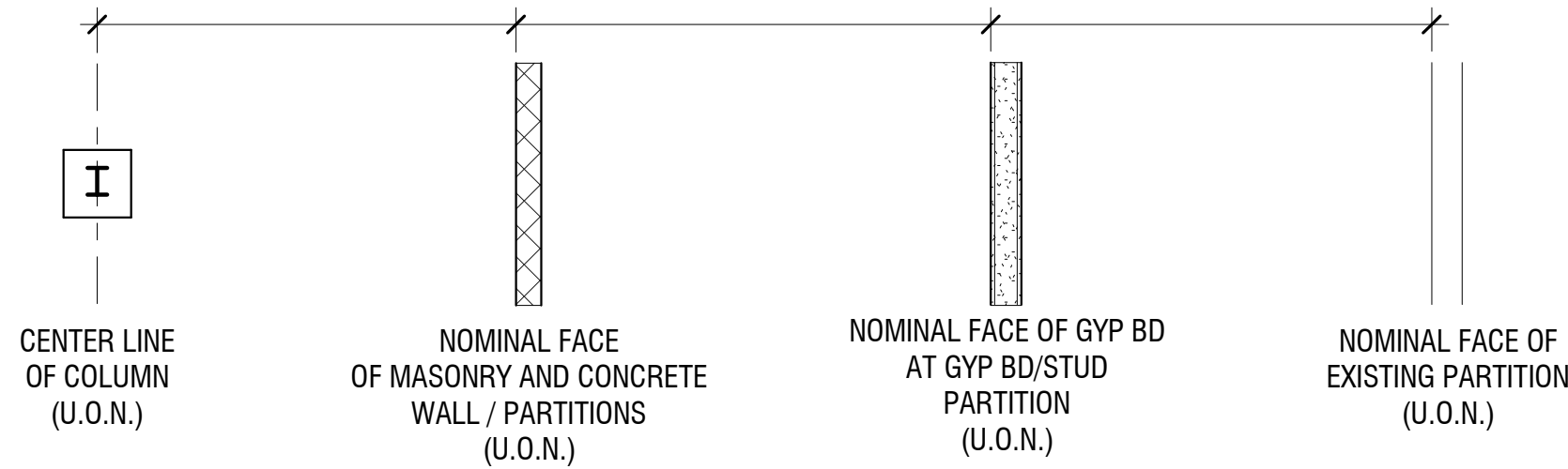
MATERIAL SYMBOLS

	CONCRETE MASONRY UNITS (CMU)		WOOD (FINISHED)		RIGID INSULATION
	CONCRETE		WOOD (ROUGH)		BATT. OR LOOSE INSULATION
	BRICK		WOOD (BLOCKING)		EARTH
	CEMENT, SAND, GROUT, PLASTER, OR GYPSUM WALL BOARD		PARTICLE BOARD		CARPET
	STEEL		PLYWOOD		STONE, GRAVEL, OR POROUS FILL

ARCHITECTURAL DRAWINGS SYMBOLS

	MATCH LINE		BUILDING SECTIONS
	ELEVATION LINE		WALL SECTIONS
	COLUMN LINE REFERENCES		DETAIL SECTIONS
	DOOR TAGS		EXTERIOR ELEVATIONS
	ROOM TAG		INTERIOR ELEVATIONS
	WINDOW TAG/LOUVER TAG		DETAIL CALL OUTS
	WALL TYPE		REVISION SYMBOL AND CLOUD
	DEMO KEYNOTE		
	PLAN/ELEVATION KEYNOTE		
	FINISH KEYNOTE		

TYPICAL PLAN DIMENSIONING



GENERAL ARCHITECTURAL NOTES

- UNLESS OTHERWISE NOTED, ALL MASONRY DIMENSIONING IS NOMINAL TO FACE OF MASONRY, ALL NON-MASONRY DIMENSIONING IS TO FACE OF PARTITIONS OR WALLS AND ALL CONCRETE DIMENSIONING IS FACE TO FACE OF WALL.
- ALL DIMENSIONS ARE TO THE OUTSIDE FINISH SURFACE OF WALLS OR TO COLUMN CENTERLINES.
- ALL DIMENSIONS ARE FINISHES DIMENSIONS FROM FINISH FACE OF GYPSUM BOARD OR SCHEDULED WALL FINISH UNLESS OTHERWISE NOTED.
- PROVIDE CONCEALED BLOCKING IN ALL STUD PARTITIONS AND WALLS BEHIND SCHEDULE FOR SEMI-RECESSED, FULLY RECESSED OR SURFACE MOUNTED ACCESSORIES AND MILLWORK.
- DIMENSIONS NOTED AS "CLEAR" ARE TO FINISHED SURFACE AND ARE CRITICAL FOR ACCESSIBILITY REQUIREMENTS OR BUILT-IN FURNISHINGS.
- FINISHED DOOR OPENINGS SHALL BE NOMINAL 6" FROM FINISHED CORNER OF ROOM EXCEPT WHERE DIMENSIONED OTHERWISE.
- INSTALL ALL WORK AS INDICATED AND VERIFY EXACT LOCATION AND ELEVATIONS ON THE JOB.
- DO NOT SCALE DRAWINGS. REFER TO DIMENSIONS AND SPECIFIED MATERIALS. CONTACT THE ARCHITECT IF ADDITIONAL DIMENSIONS ARE REQUIRED.
- COORDINATE ALL DOOR HARDWARE, TRIM AND FINISHES TO MEET INTENT AND COMPLIANCE, AND TO MATCH EXISTING.

GENERAL REMOVAL NOTES:

- DASHED LINES INDICATE ITEMS TO BE REMOVED.
- ELEMENTS TO REMAIN IN PLACE SHALL BE PROTECTED FROM DAMAGE, DUST AND DEBRIS.
- DUST CONTROL SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PERFORM CLEAN UP OF ALL REFUSE, RUBBISH, SCRAP MATERIALS AND DEBRIS CAUSED BY THE WORK ON A DAILY BASIS. CLEANING OF AREA SURROUNDING THE WORK AREA WHERE CONSTRUCTION DEBRIS OR DUST ACCUMULATES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DEMOLITION OF ADDITIONAL ITEMS.
- EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATIONS AND PRIOR CONSTRUCTION DOCUMENTS WHEN AVAILABLE AND ARE NOT GUARANTEED. CONTRACTORS ARE RESPONSIBLE FOR EXAMINING THE BUILDING AND VERIFYING EXISTING CONDITIONS AND ARE TO CONTACT THE OWNER REPRESENTATIVE REGARDING ANY DISCREPANCIES.
- DEMOLITION WORK SHALL INCLUDE REMOVAL OF ALL ITEMS INDICATED TO BE REMOVED AND/OR SALVAGED, AND LEGAL DISPOSAL OF ITEMS NOT INTENDED FOR SALVAGE. WORK SHALL ALSO INCLUDE REMOVAL OF ALL MINOR SUPPORTS, BRACKETS, FASTENERS, CONDUITS, PIPING, AND SIMILAR ITEMS WHICH ARE NOT INDICATED TO REMAIN.
- ALL FLOOR AND WALL CONDITIONS WHICH ARE TO RECEIVE NEW CONSTRUCTION ARE TO BE DEMOLISHED AS INDICATED AND PROPERLY PREPPED TO RECEIVE NEW FINISHES, U.N.O.
- ALL FLOOR, WALL, AND CEILING CONDITIONS THAT ARE DISTURBED BY DEMOLITION ARE TO BE PATCHED, REPAIRED AND/OR PAINTED, WITH SIMILAR MATERIALS AND COLORS. REFER TO NEW WORK FLOOR PLANS AND REFLECTED CEILING PLANS.

LINE TYPES

	VISIBLE ITEMS
	CENTER LINE OR COLUMN GRID
	HIDDEN OR NOT IN CONTRACT
	BREAK LINE
	OVERHEAD

WALL/ PARTITION DESIGNATIONS

	BRICK FACE
	C.M.U. WALL / PARTITION - SEE PARTITION TYPES
	METAL STUD PARTITION - SEE PARTITION TYPES
	EXISTING WALL CONSTRUCTION

GENERAL CONSTRUCTION NOTES:

- CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE OF NEW YORK STATE", LATEST REVISION, THE NEW YORK STATE ENERGY CODE AND ANY OTHER CODES GOVERNED BY THE JURISDICTION IN WHICH THE PROJECT IS BEING CONSTRUCTED.
- CONSTRUCTION SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS, AND UNIVERSITY STANDARDS.
- ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTORS ARE RESPONSIBLE FOR ALL MATERIALS, CONSTRUCTION METHODS AND CRAFTSMANSHIP.
- CONTRACTORS ARE TO VERIFY ALL EXISTING CONDITIONS, REQUIREMENTS, NOTES, CODES AND DIMENSIONS, PRIOR TO THE START OF CONSTRUCTION AND SHALL NOTIFY THE ARCHITECT IF CONDITIONS VARY FROM THOSE SHOWN ON THE DOCUMENTS.
- THOROUGHLY COORDINATE WORK WITH OTHER TRADES AND DETERMINE THE EXACT ROUTE AND LOCATION OF UTILITIES, MATERIALS AND EQUIPMENT BEFORE FABRICATION AND INSTALLATION.
- WHEN EXISTING CONSTRUCTION IS REMOVED, DISTURBED, DAMAGED, REPLACED OR RENOVATED IN ANY WAY, CONTRACTORS SHALL PROVIDE PATCHING, PAINTING AND MATERIALS OF SAME TYPE AND QUALITY AS TO MATCH ADJACENT EXISTING SURFACES, UNLESS OTHERWISE NOTED.
- CONTRACTORS PROVIDE ALL BLOCKING, FURRING AND SHIMMING FOR INSTALLATION AND COMPLETION OF WORK.
- ALL NEW WORK SHALL BE PLUMB, LEVEL AND SQUARE. SCRIBE AND MAKE FIT ALL NEW TO EXISTING.
- CONTRACTORS VERIFY ALL DIMENSIONS BEFORE ORDERING MATERIAL OR DOING WORK. NO EXTRA COMPENSATION OR CHARGES WILL BE ACCEPTED DUE TO DIFFERENCES BETWEEN THE ACTUAL MEASUREMENTS AND MEASUREMENTS INDICATED ON THE DRAWINGS.
- ALL DETAILS ARE SUBJECT TO CHANGE DUE TO EXISTING FIELD CONDITIONS. CONTRACTOR MUST NOTIFY ARCHITECT OF SAME.
- NO SITE VISITS WILL BE MADE BY THE ARCHITECT. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR CHANGES TO THESE DRAWINGS AND COMPLETION OF COMPLIANT WORK.
- CONTRACTOR TO COORDINATE ALL DOOR HARDWARE, TRIM AND FINISHES TO MEET INTENT AND COMPLIANCE, AND TO MATCH EXISTING.
- THESE DRAWINGS DO NOT PURPORT TO SHOW ALL ITEMS AND PROCEDURES REQUIRED FOR A COMPLETE INSTALLATION. THE INTENT IS TO INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF THE GENERAL ARCHITECTURAL DESIGN CONCEPT, THE LOCATION/DIMENSIONS OF THE CONSTRUCTION AND MAJOR ELEMENTS OF CONSTRUCTION.
- CONTRACTORS ARE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS ASSOCIATED WITH THE WORK OF THEIR CONTRACT.
- ITEMS NOTED AS 'BY OWNER' ARE TO BE FURNISHED BY THE OWNER OR THE OWNER'S VENDOR.

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Elmira, NY 14901
607-734-8492
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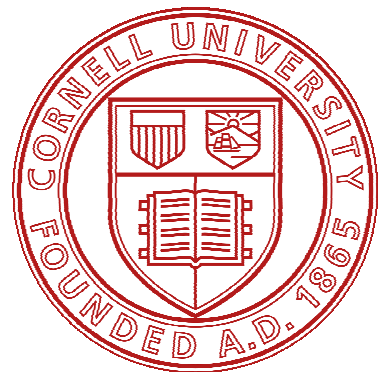
CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

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Ithaca, NY



EAST CAMPUS RESEARCH FACILITY TRANSGENIC MOUSE CORE RELOCATION

EAST CAMPUS RESEARCH FACILITY

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER:	2232366
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DRAWN BY:	JPB
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REVIEWED BY:	RJP
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ISSUED FOR:	BID
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DATE:	03/18/24
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DRAWING NAME:	
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NOTES, SYMBOLS & ABBREVIATIONS

DRAWING NUMBER:	
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A001

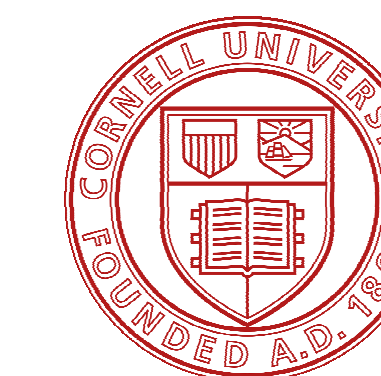


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TRANSGENIC MOUSE
CORE RELOCATION**
EAST CAMPUS RESEARCH FACILITY

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2232366

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REVIEWED BY: RJP

ISSUED FOR: BID

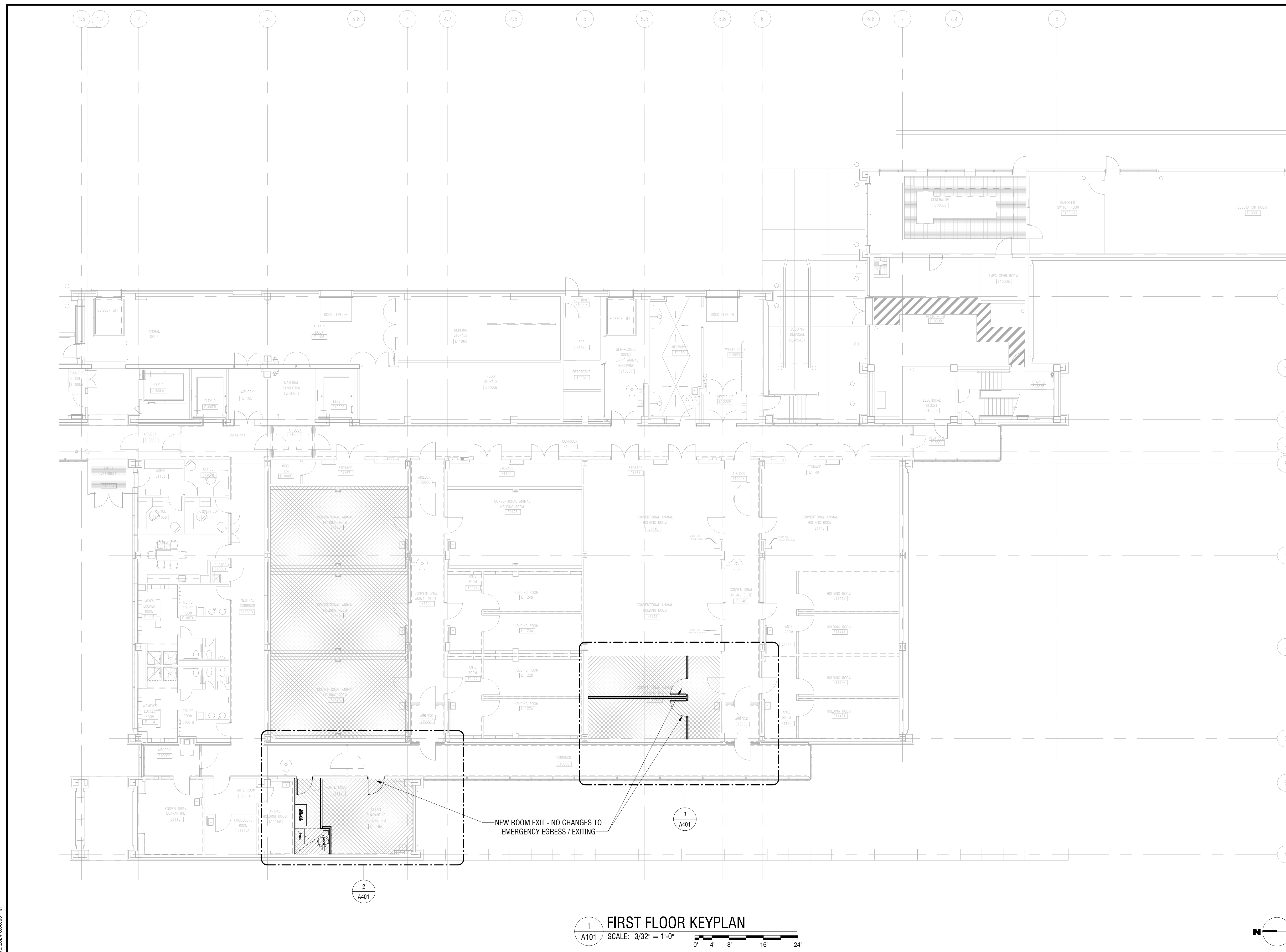
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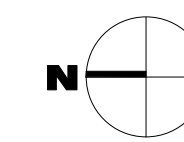
FIRST FLOOR KEYPLAN

DRAWING NUMBER:

A101



1 FIRST FLOOR KEYPLAN
SCALE: 3/32" = 1'-0"
0' 4' 8' 16' 24'



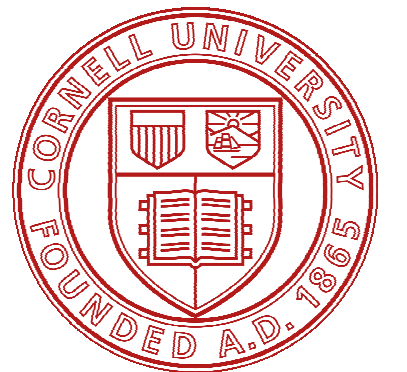


CERTIFICATE OF AUTHORIZATION NUMBER:
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LAND SURVEYING: 017978
GEOLOGICAL: 018750

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**EAST CAMPUS
RESEARCH FACILITY
TRANSGENIC MOUSE
CORE RELOCATION**
EAST CAMPUS RESEARCH FACILITY

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2232366

DRAWN BY: JPB

REVIEWED BY: RJP

ISSUED FOR: BID

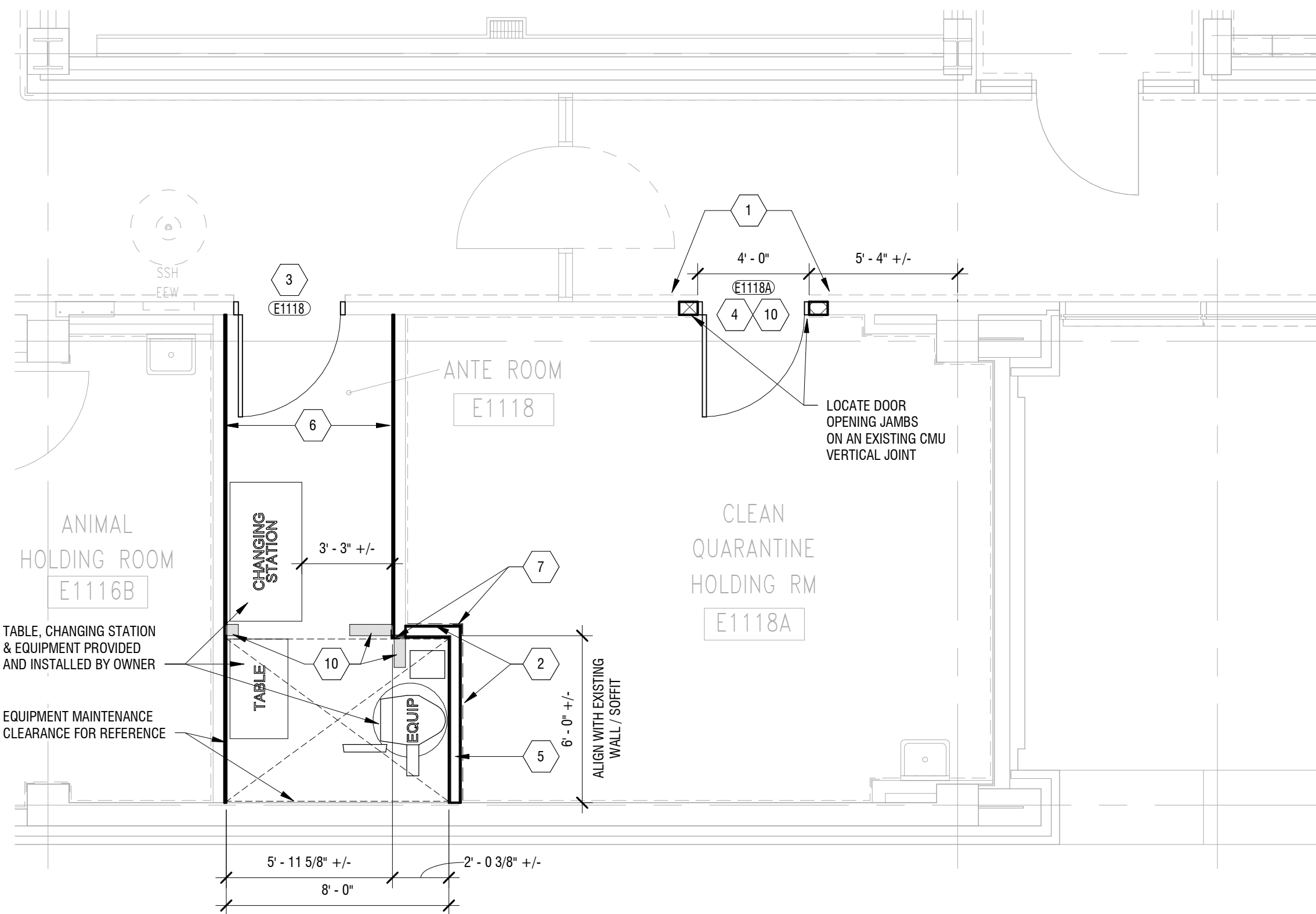
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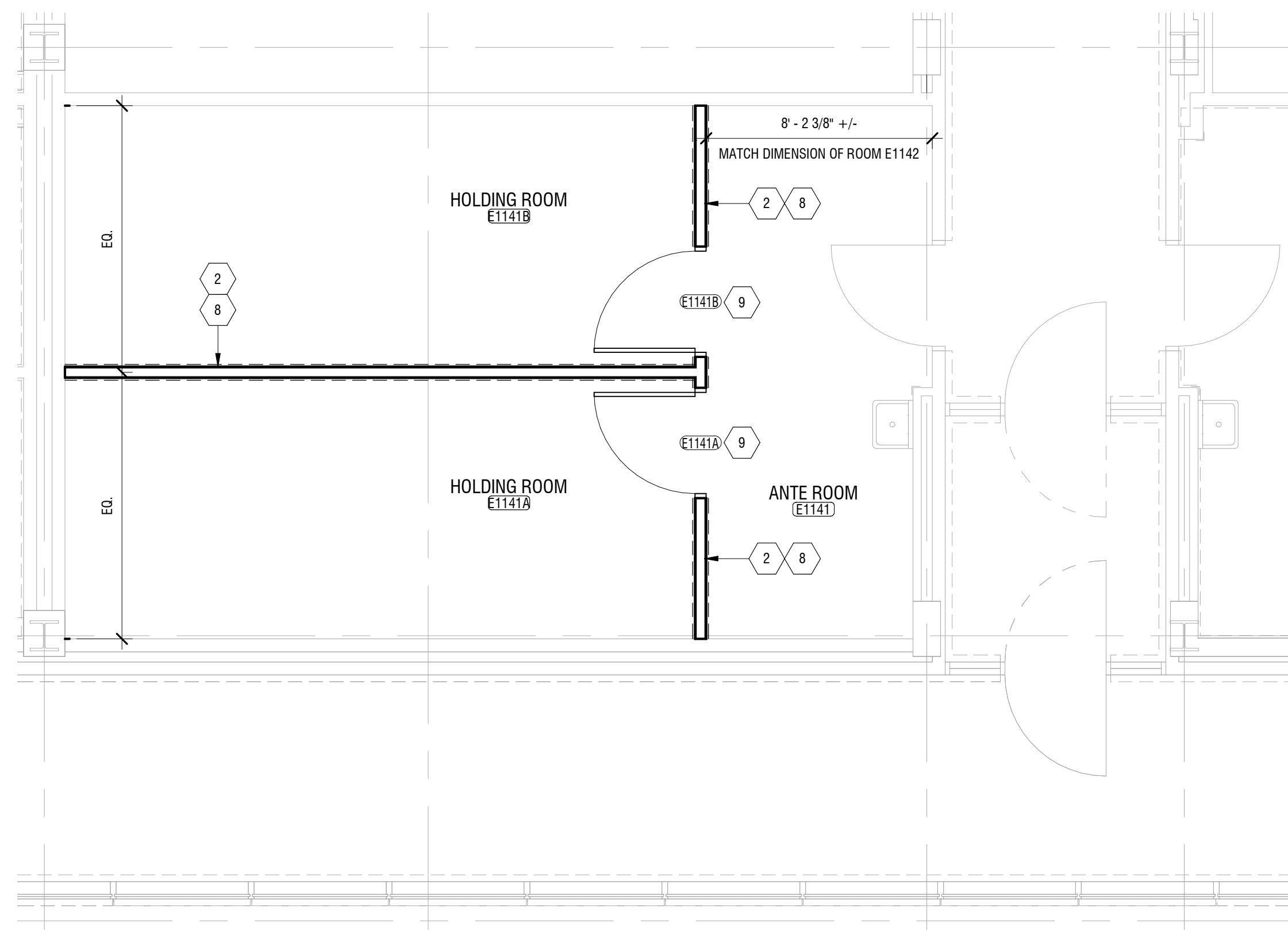
PARTIAL FIRST FLOOR PLANS

DRAWING NUMBER:

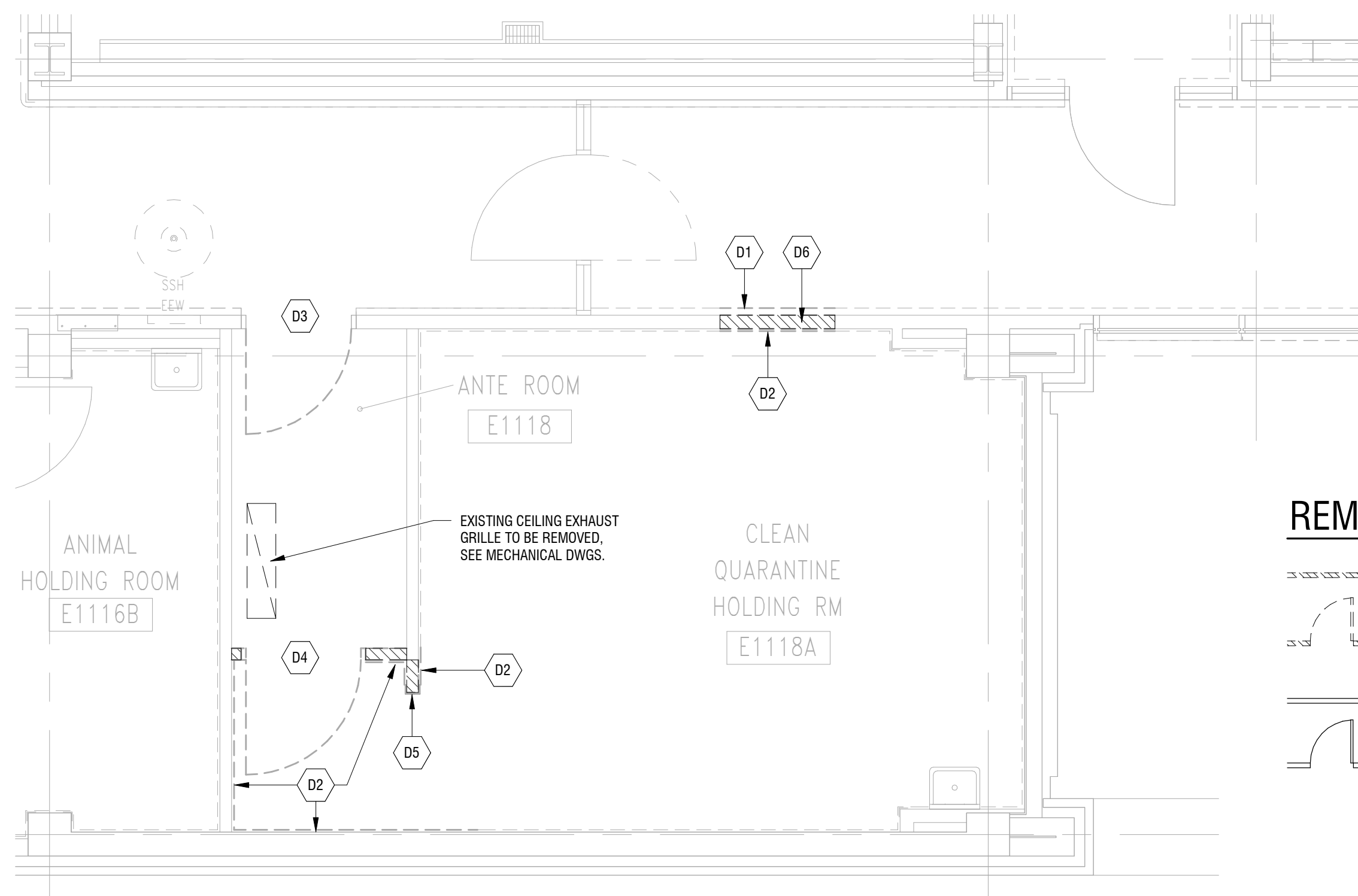
A401



2 ROOMS E1118 & E118A
A401 SCALE: 1/4" = 1'-0"
0' 2' 4' 8'



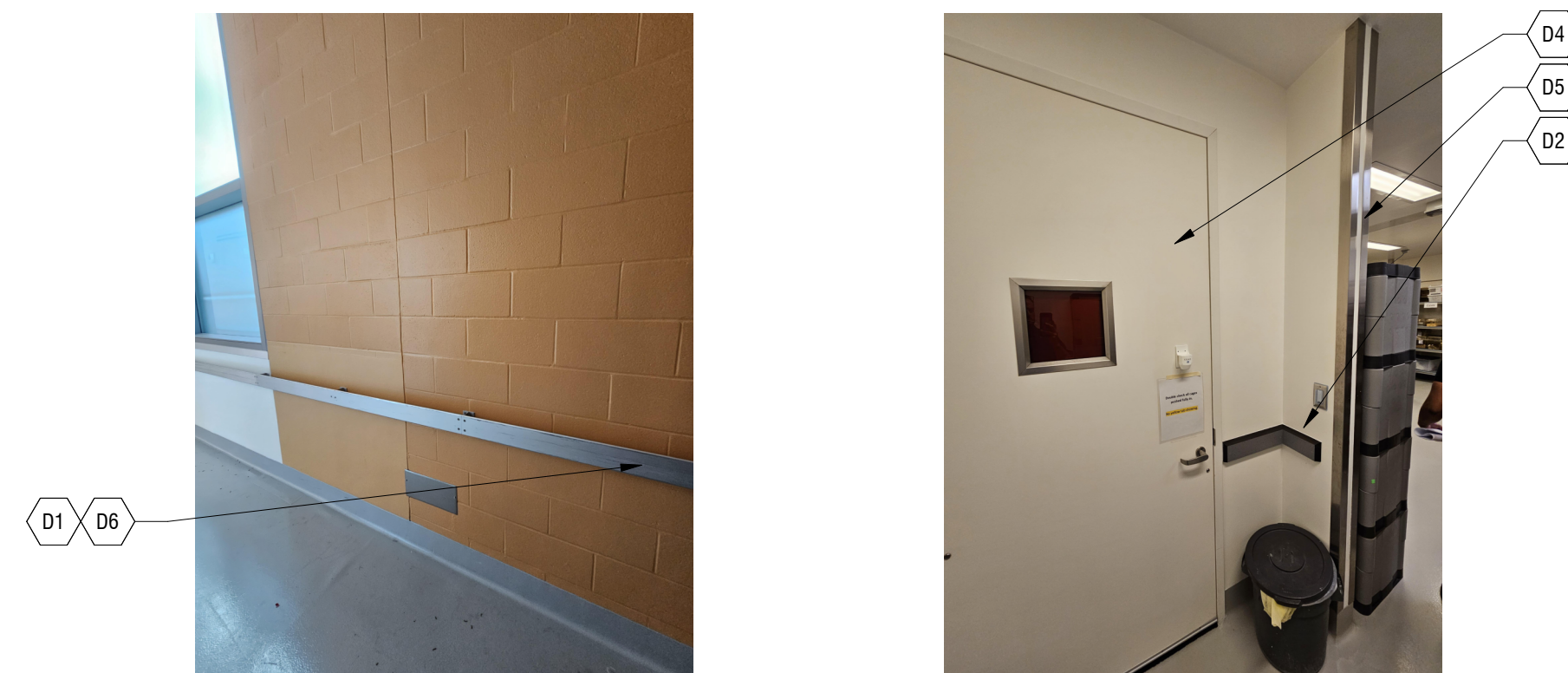
3 ROOM E1141
A401 SCALE: 1/4" = 1'-0"
0' 2' 4' 8'



1 ROOMS E1118 & E118A - DEMOLITION
A401 SCALE: 1/4" = 1'-0"
0' 2' 4' 8'

REMOVAL LEGEND:

- EXISTING WALL TO BE REMOVED
- EXISTING DOOR AND FRAME TO BE REMOVED
- EXISTING WALL TO REMAIN
- EXISTING DOOR TO REMAIN



KEYED NOTES

- NOTE: NOT ALL NOTES APPEAR ON EVERY SHEET
- D1** REMOVE PORTION OF EXISTING ALUMINUM RAIL WALL GUARD TO NEAREST JOINTS.
 - D2** REMOVE PORTION OF EXISTING SOLID PHENOLIC RAIL WALL GUARD TO NEAREST JOINTS. SAVE FOR POSSIBLE REUSE.
 - D3** EXISTING DOOR E1118; REMOVE DOOR & HARDWARE - HINGE AND FRAME TO REMAIN. SAVE DOOR LEAF AND ALL HARDWARE FOR REUSE. RETURN SURPLUS TO OWNER.
 - D4** EXISTING DOOR E1118A; REMOVE DOOR, FRAME & HARDWARE AND PORTION OF PARTITION ON BOTH SIDES UP TO 8". SAVE HARDWARE FOR POSSIBLE REUSE. RETURN SURPLUS TO OWNER.
 - D5** REMOVE FULL HEIGHT STAINLESS STEEL CORNER GUARDS. SAVE FOR REUSE.
 - D6** REMOVE PORTION OF 6" CMU PARTITION FOR NEW DOOR INSTALLATION.
 - 1** PROVIDE SECTIONS OF ALUMINUM RAIL WALL GUARD (WG1) TO MATCH EXISTING. PROVIDE MANUFACTURED TERMINATIONS ON BOTH SIDES OF NEW DOOR; 3/8"x4" CLEAR ANODIZED, 'SANI-RAIL' BY LIFE SCIENCE PRODUCTS.
 - 2** PROVIDE / REINSTALL SECTIONS OF SOLID PHENOLIC RAIL WALL GUARD TO MATCH EXISTING; 1"x4" BY TRESPA.
 - 3** NEW DOOR E1118; PROVIDE NEW DOOR IN EXISTING FRAME. DOOR TO HAVE STEEL STIFFENED CORE w/ 14 GAGE FLUSH METAL PANEL FACE SHEETS (NO VISION PANEL) FOR SECURITY. SEE DRAWING A601. PAINT ALL TO MATCH EXISTING. COORDINATE TIE-IN TO ALARM SYSTEM (SEE ELECTRICAL DRAWINGS).
 - 4** NEW DOOR E1118A; PROVIDE NEW FRAME (EXISTING DOOR E1118 LEAF TO BE REINSTALLED). SEE DRAWING A601. PROVIDE CMU BOND BEAM LINTEL & TOOTHED-IN 6" CMU JAMBS. PAINT ALL TO MATCH EXISTING.
 - 5** PROVIDE PARTITION (TYPE S) TO UNDERSIDE OF EXISTING GWB CEILING; 3-5/8" 20 GA. STUDS @ 16" O.C., 3" SOUND ATTENUATION BLANKET. SECURITY BARRIER MESH ATTACHED TO STUD FACE ON EQUIPMENT SIDE, 5/8" USG FIBEROCK AQUA-TOUGH AR GWB FINISH ON BOTH SIDES OF PARTITION. TAPE, FINISH & PAINT TO MATCH EXISTING.
 - 6** PROVIDE SECURITY PARTITION (TYPE F) OVER EXISTING; SECURITY BARRIER MESH ATTACHED THRU EXISTING GWB TO STUD, 5/8" USG FIBEROCK AQUA-TOUGH AR GWB FINISH. TAPE, FINISH & PAINT TO MATCH EXISTING.
 - 7** REINSTALL SALVAGED FULL HEIGHT STAINLESS STEEL CORNER GUARDS.
 - 8** PROVIDE PARTITION (TYPE S) TO UNDERSIDE OF EXISTING GWB CEILING; 3-5/8" 20 GA. STUDS @ 16" O.C. (2) 18 GA. STUDS @ DOOR OPENINGS), 3" SOUND ATTENUATION BLANKET, 5/8" USG FIBEROCK AQUA-TOUGH AR GWB FINISH ON BOTH SIDES OF PARTITION. TAPE, FINISH & PAINT TO MATCH EXISTING. PROVIDE INTEGRAL COVE BASE (SEE KEYED NOTE #10).
 - 9** DOORS E1141A & B; PROVIDE DOOR, FRAME AND HARDWARE. SEE DRAWING A601.
 - 10** FLOOR FINISH REPAIR; PATCH EXISTING RESINOUS FLOOR FINISH & INTEGRAL BASE @ PARTITION REMOVALS. STONHARD STONKOTE GS4/GS7. COLOR - SILVER GRAY.
- NOTES:
- SECURITY BARRIER MESH TO BE 9 GAUGE 1-1/2" DIAMOND; BM15 BY 'CLARK DIETRICH' OR OWNER APPROVED EQUAL.
- PAINT TO BE WATERBORNE AMINE EPOXY #V440 BY 'COROTECH' BY BENJAMIN MOORE.
- SEALANT TO BE SANITARY MILDEW RESISTANT SILICONE SEALANT #899 BY 'PECORA'.

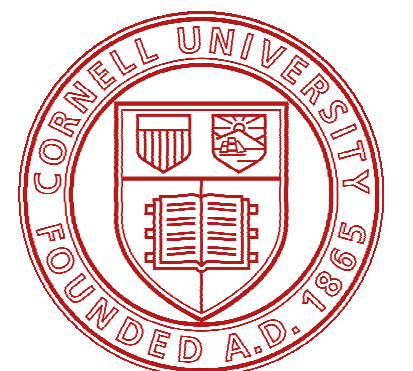


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LAND SURVEYING: 017976
GEOLOGICAL: 018750

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**EAST CAMPUS
RESEARCH FACILITY
TRANSGENIC MOUSE
CORE RELOCATION**
EAST CAMPUS RESEARCH FACILITY

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2232366

DRAWN BY: JPB

REVIEWED BY: RJP

ISSUED FOR: BID

DATE: 03/18/24

DRAWING NAME:

**PARTIAL FIRST FLOOR CEILING
PLAN**

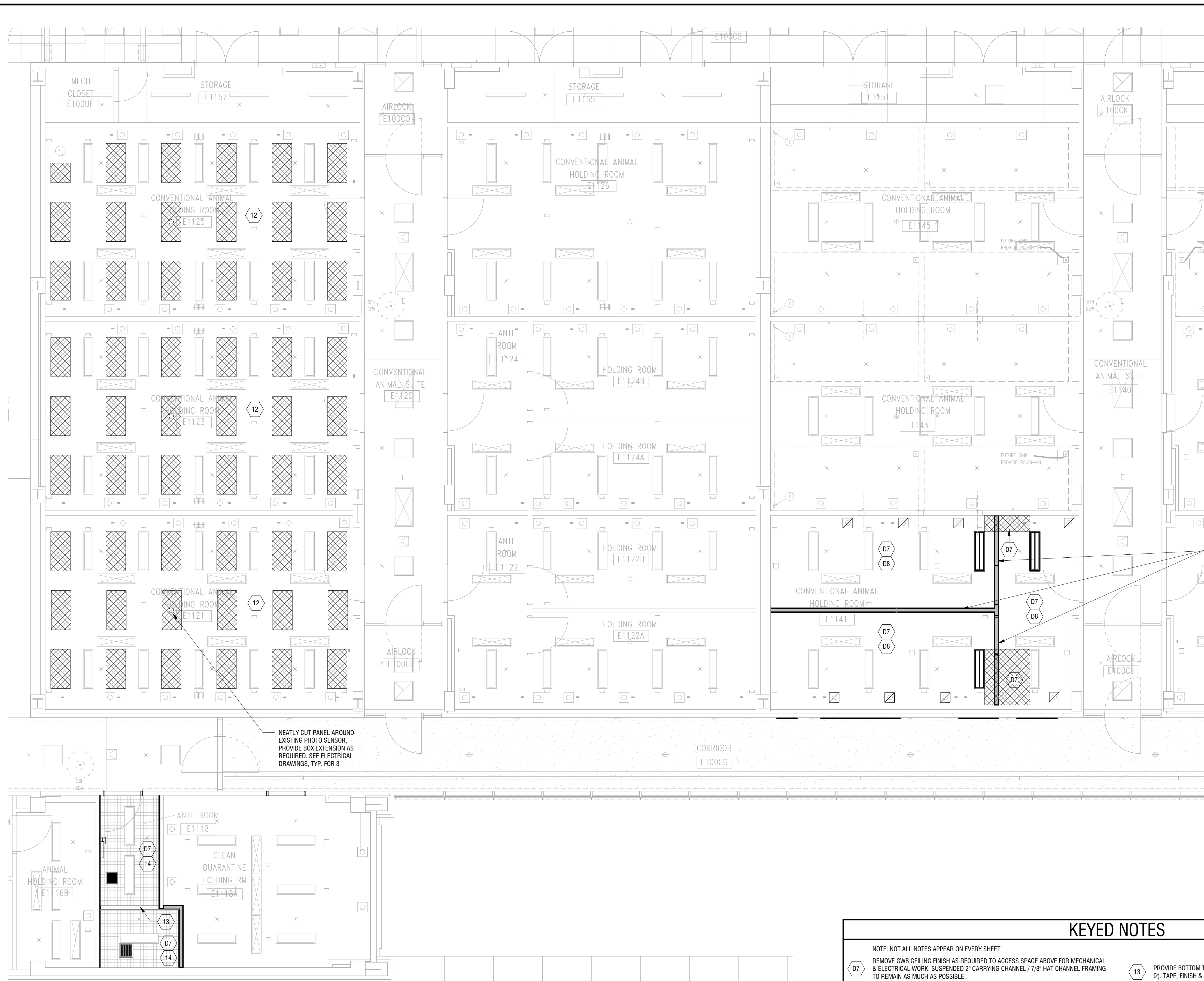
DRAWING NUMBER:

A402

ACOUSTICAL NOTES:

1. THE FLOOR CEILING ASSEMBLY BETWEEN E2121 (MICE LOCATION) AND E1121 BELOW (DOG LOCATION) MUST PROVIDE SOUND TRANSMISSION LOSS EQUAL TO OR BETTER THAN THE EXISTING "SECONDARY GWB CEILING" TYPE.
2. SCIENTIFIC LITERATURE SUGGESTS THAT GESTATING MICE SHOULD NOT BE EXPOSED TO NOISE LEVELS THAT EXCEED 70 DBA.
3. SOUND MEASUREMENTS WERE CONDUCTED JUNE 20, 2023 WITHIN A DOG HOLDING ROOM AND AN UNOCCUPIED ROOM DIRECTLY ABOVE, WITH THE "SECONDARY GWB CEILING" TYPE ASSEMBLY IN PLACE.
4. DOG BARKING SOUND LEVELS WERE NEAR 100 DBA IN THE DOG ROOM. HIGHEST SOUND LEVELS IN THE ROOM ABOVE THE DOGS WERE NEAR 40 DBA WHILE DOG BARKING WAS OCCURRING.
5. THE JUNE 2023 MEASUREMENTS INDICATE THAT REPLICATING THE EXISTING "SECONDARY GWB CEILING" TYPE ASSEMBLY WOULD MITIGATE AGAINST EXCESSIVE SOUND LEVELS IN THE MICE ROOMS.
6. MEASUREMENTS INDICATE THAT THE EXISTING "SECONDARY GWB CEILING" FLOOR/CEILING ACHIEVES CLOSE TO 60 DECIBELS OF NOISE REDUCTION IN THE SOUND FREQUENCIES WHERE DOG BARKING IS DOMINANT (500 TO 2000 HERTZ).

REMOVE EXISTING GWB DIRECTLY ABOVE NEW PARTITION TO ENSURE NEW TRACK ATTACHES DIRECTLY TO EXISTING CEILING FRAMING (TYP.)



NEATLY CUT PANEL AROUND EXISTING PHOTO SENSOR. PROVIDE BOX EXTENSION AS REQUIRED. SEE ELECTRICAL DRAWINGS, TYP. FOR 3

KEYED NOTES

- NOTE: NOT ALL NOTES APPEAR ON EVERY SHEET
- 12 REMOVE GWB CEILING FINISH AS REQUIRED TO ACCESS SPACE ABOVE FOR MECHANICAL & ELECTRICAL WORK. SUSPENDED 2" CARRYING CHANNEL / 7/8" HAT CHANNEL FRAMING TO REMAIN AS MUCH AS POSSIBLE.
 - 13 PROVIDE BOTTOM TRACK & GWB FINISH ON EXISTING REMAINING PARTITION (FROM 8' TO 9'). TAPE, FINISH & PAINT TO MATCH EXISTING.
 - 14 PROVIDE SECURITY CEILING APPLIED TO EXISTING, SECURITY BARRIER MESH ATTACHED THRU EXISTING GWB TO HAT CHANNEL FRAMING, 5/8" USG FIBEROCK AQUA-TOUGH AR FINISH. TAPE, FINISH & PAINT TO MATCH EXISTING.
 - 13 REMOVE CUBICLE CURTAIN TRACK & SUSPENSION SYSTEM THROUGHOUT. RETURN COMPONENTS TO OWNER. PATCH / REPAIR, FINISH & PAINT ALL RESULTING HOLES IN CEILING & WALLS.
 - 14 ACoustICAL IMPROVEMENTS: PROVIDE NOMINAL 24"x48"x2" FLAT PERFORATED METAL PANEL. ALPHAPERF METAL ACOUSTIC PANEL AS PROVIDED BY ACOUSTICAL SOLUTIONS; FLUSH MOUNT TO CEILING (SUBMIT MOUNTING DETAIL FOR REVIEW). COLOR SELECTION BY OWNER. PROVIDE ADD & DEDUCT UNIT PRICE PER PANEL FOR QUANTITIES DIFFERING FROM WHAT'S SHOWN.

1 PARTIAL FIRST FLOOR CEILING PLAN
A402 SCALE: 3/16" = 1'-0"



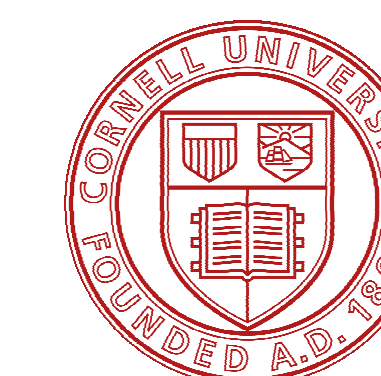


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LAND SURVEYING: 017976
GEOLOGICAL: 018750

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**EAST CAMPUS
RESEARCH FACILITY
TRANSGENIC MOUSE
CORE RELOCATION**

EAST CAMPUS RESEARCH FACILITY

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2232366

DRAWN BY: JPB

REVIEWED BY: RJP

ISSUED FOR: BID

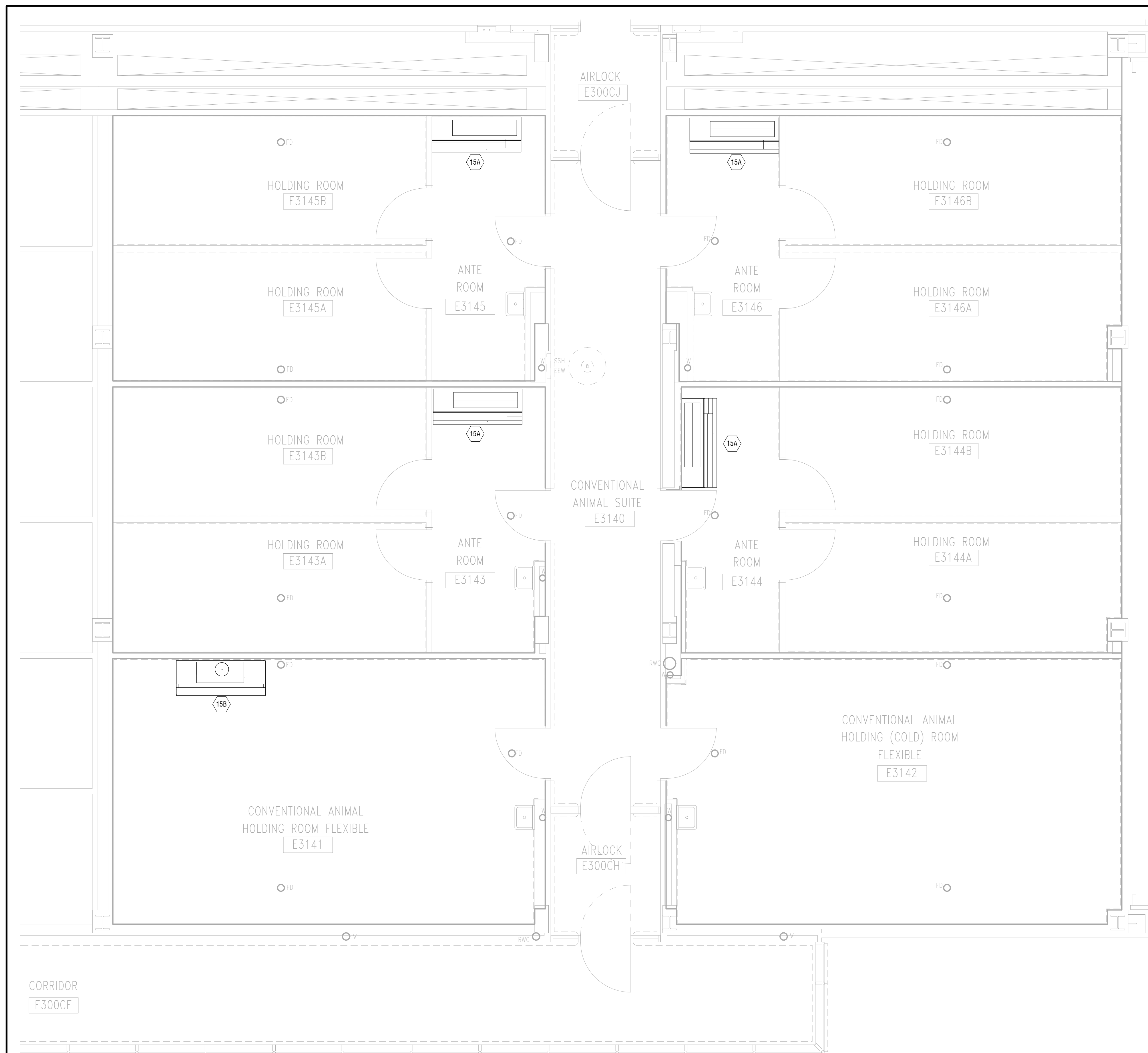
DATE: 03/18/24

DRAWING NAME:

PARTIAL THIRD FLOOR PLAN

DRAWING NUMBER:

A403



CORRIDOR
E300CF

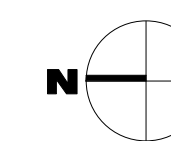
1
A403 **PARTIAL THIRD FLOOR PLAN**
SCALE: 1/4" = 1'-0"
0' 2' 4' 8'

KEYED NOTES

NOTE: NOT ALL NOTES APPEAR ON EVERY SHEET

15A BIOLOGICAL SAFETY CABINET (BSC); 6' BAKER SG604 RECIRCULATING, PURCHASED BY OWNER, INSTALLED BY CONTRACTOR. FINAL LOCATION TO BE APPROVED BY OWNER. SEE ALSO MECHANICAL DRAWINGS.

15B BIOLOGICAL SAFETY CABINET (BSC); 6' BAKER SG604 w/ A FLEXAIR CANOPY CONNECTION, PURCHASED BY OWNER, INSTALLED BY CONTRACTOR. FINAL LOCATION TO BE APPROVED BY OWNER. SEE ALSO MECHANICAL DRAWINGS.



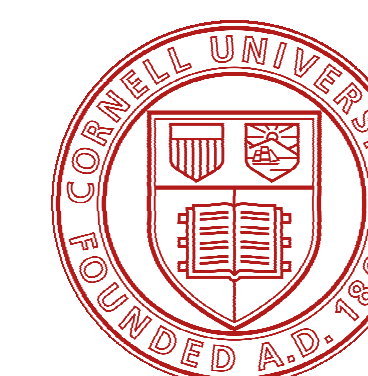


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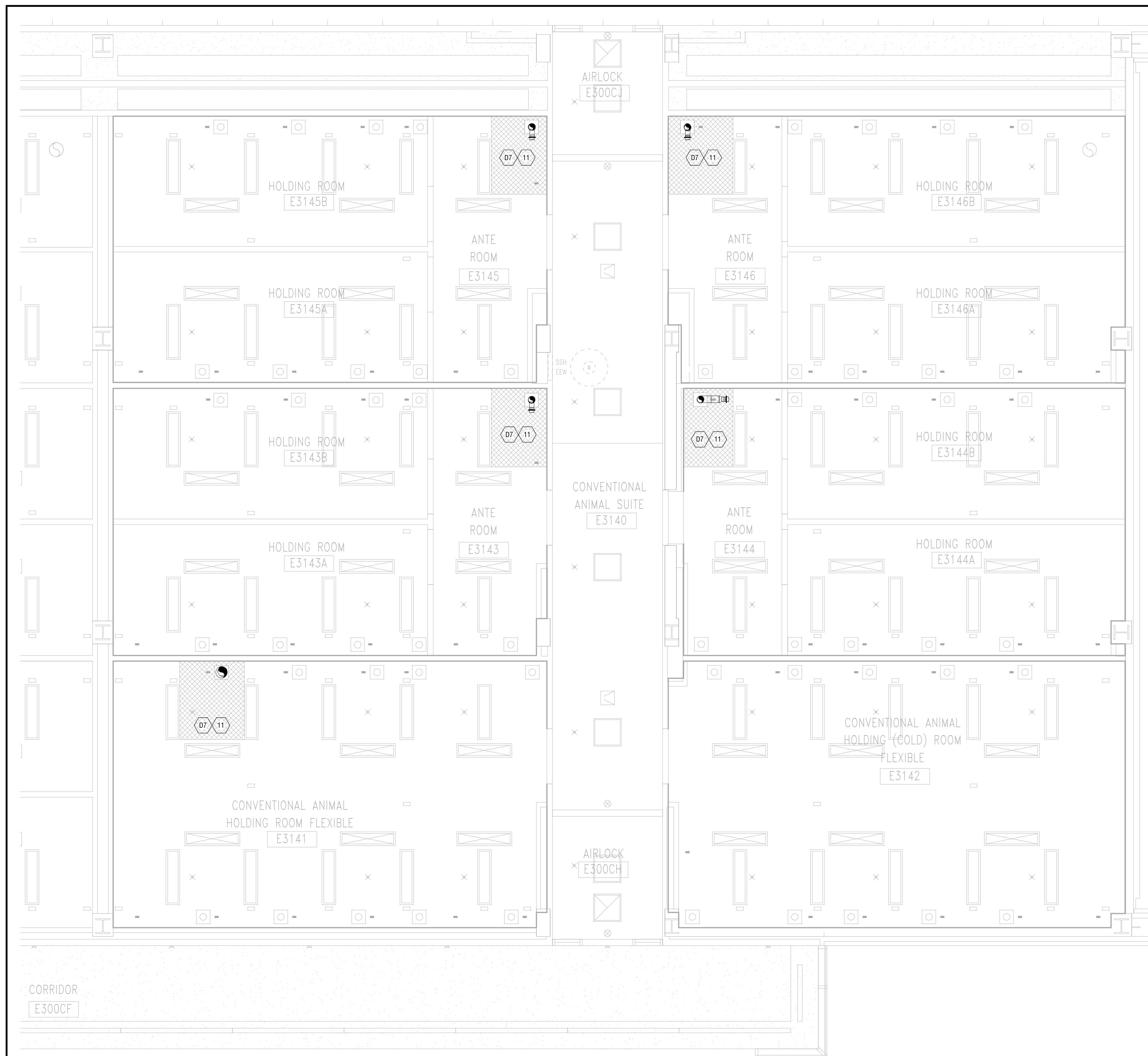
DATE: 03/18/24

DRAWING NAME:

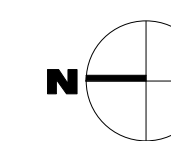
**PARTIAL THIRD FLOOR
CEILING PLAN**

DRAWING NUMBER:

A404



KEYED NOTES	
NOTE: NOT ALL NOTES APPEAR ON EVERY SHEET	
D7	REMOVE GWB CEILING FINISH AS REQUIRED TO ACCESS SPACE ABOVE FOR MECHANICAL & ELECTRICAL WORK. SUSPENDED 2" CARRYING CHANNEL / 7/8" HAT CHANNEL FRAMING TO REMAIN AS MUCH AS POSSIBLE.
11	PROVIDE 5/8" USG FIBEROCK AQUA-TOUGH AR GWB FINISH ON EXISTING CEILING FRAMING. TAPE, FINISH & PAINT TO MATCH EXISTING.



1
A404 **PARTIAL THIRD FLOOR CEILING PLAN**
SCALE: 1/4" = 1'-0"
0' 2' 4' 8'

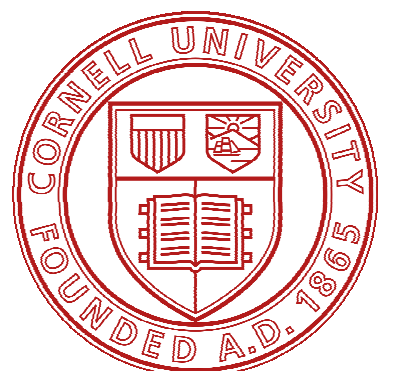


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REVIEWED BY: RJP

ISSUED FOR: BID

DATE: 03/18/24

DRAWING NAME:

SCHEDULES

DRAWING NUMBER:

A601

NO.	DOOR						FRAME						HARDWARE	COMMENTS	NO.
	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	GLAZING			
E1118	C	3'-8"	7'-10"	1 3/4"	HM	EP	EX	EX	EP	H7	J7	X	SEE NOTES	PREP DOOR FOR SECURITY HARDWARE	E1118
E1118A	D-EX	3'-8"	7'-10"	1 3/4"	EX	EP	1	HM	EP	H7	J7	X	SEE NOTES	HOSPITAL STOP FRAME (MATCH E1118)	E1118A
E1141A	D	3'-8"	7'-10"	1 3/4"	HM	EP	1	HM	EP	H1	J1	X	1		E1141A
E1141B	D	3'-8"	7'-10"	1 3/4"	HM	EP	1	HM	EP	H1	J1	X	1		E1141B

EXISTING DOOR #E1118 HARDWARE (FOR REFERENCE):

- CONTINUOUS HINGE FM300 (MARKAR) w/ POWER TRANSFER EPT-10 (VON DUPRIN)
- ELECTRONIC LOCK 35H7EU15PH
- WALL STOP 1270WXCP (TRIMCO)
- SURFACE CLOSER 351-PH10 (SARGENT)
- ARMOR PLATE K0050 36"H x W.O.D.-1.5" (TRIMCO)
- DOOR SILENCER 1229A (TRIMCO)
- TRIM PROTECTOR R115LPB (ROCKWOOD) - MODIFY TO EXTEND ACROSS DOOR WIDTH
- SWEEP 601C (NATIONAL GUARD)

EXISTING DOOR #E1118A HARDWARE (FOR REFERENCE):

- CONTINUOUS HINGE FM300 (MARKAR)
- MORTISE LATCH-SET 8215-LNL (SARGENT)
- WALL STOP 1270WXCP (TRIMCO)
- SURFACE CLOSER 351-PH10 (SARGENT)
- ARMOR PLATE K0050 36"H x W.O.D.-1.5" (TRIMCO)
- DOOR SILENCER 1229A (TRIMCO)
- TRIM PROTECTOR R115LPB (ROCKWOOD) - MODIFY TO EXTEND ACROSS DOOR WIDTH
- SWEEP 601C (NATIONAL GUARD)

NEW DOOR #E1118 HARDWARE:

- (E) - CONTINUOUS HINGE FM300 (MARKAR) w/ POWER TRANSFER EPT-10 (VON DUPRIN)
- (N) - MORTISE LOCK-SET 8211-LNL FAIL-SECURE (SARGENT)
- (E) - WALL STOP 1270WXCP (TRIMCO)
- (E) - SURFACE CLOSER 351-PH10 (SARGENT)
- (N) - ARMOR PLATE K0050 36"H x W.O.D.-1.5" (TRIMCO)
- (N) - DOOR SILENCER 1229A (TRIMCO)
- (N) - TRIM PROTECTOR R115LPB (ROCKWOOD) - MODIFY TO EXTEND ACROSS DOOR WIDTH
- (N) - SWEEP 601C (NATIONAL GUARD)

NEW DOOR #E1118A HARDWARE:

- (N) - CONTINUOUS HINGE FM300 (MARKAR) w/ POWER TRANSFER EPT-10 (VON DUPRIN)
- (E) - ELECTRONIC LOCK 35H7EU15PH
- (E) - SURFACE CLOSER 351-PH10 (SARGENT)
- (E) - ARMOR PLATE K0050 36"H x W.O.D.-1.5" (TRIMCO)
- (N) - DOOR SILENCER 1229A (TRIMCO)
- (E) - TRIM PROTECTOR R115LPB (ROCKWOOD) - MODIFY TO EXTEND ACROSS DOOR WIDTH
- (E) - SWEEP 601C (NATIONAL GUARD)

DOOR & FRAME:

DOOR:

- 1-3/4" THICK SEAMLESS FLUSH HM
- STEEL STIFFENED CORE (TYPE C)
- STANDARD CORE (TYPE D)
- 0.053 (16 ga.) FACE SHEETS
- TOP & BOTTOM FLUSH CHANNEL CLOSURES
- (X) VISION PANEL CONSISTING OF NOMINAL 1/4" LAMINATED GLASS (3.0mm/0.060"/3.0mm - PLASTIC INTERLAYER; SOLUTIA VANCEVA #5557 - COLOR RED)
- STAINLESS STEEL FLAP w/ PIANO HINGE & MAGNETIC LATCHING. ENSURE COMPLETE LIGHT BLOCKING AT PERIMETER OF FLANGE.

FRAME:

- FULLY WELDED
- 0.067 (14 ga.)

HARDWARE SCHEDULE:

SET #1:

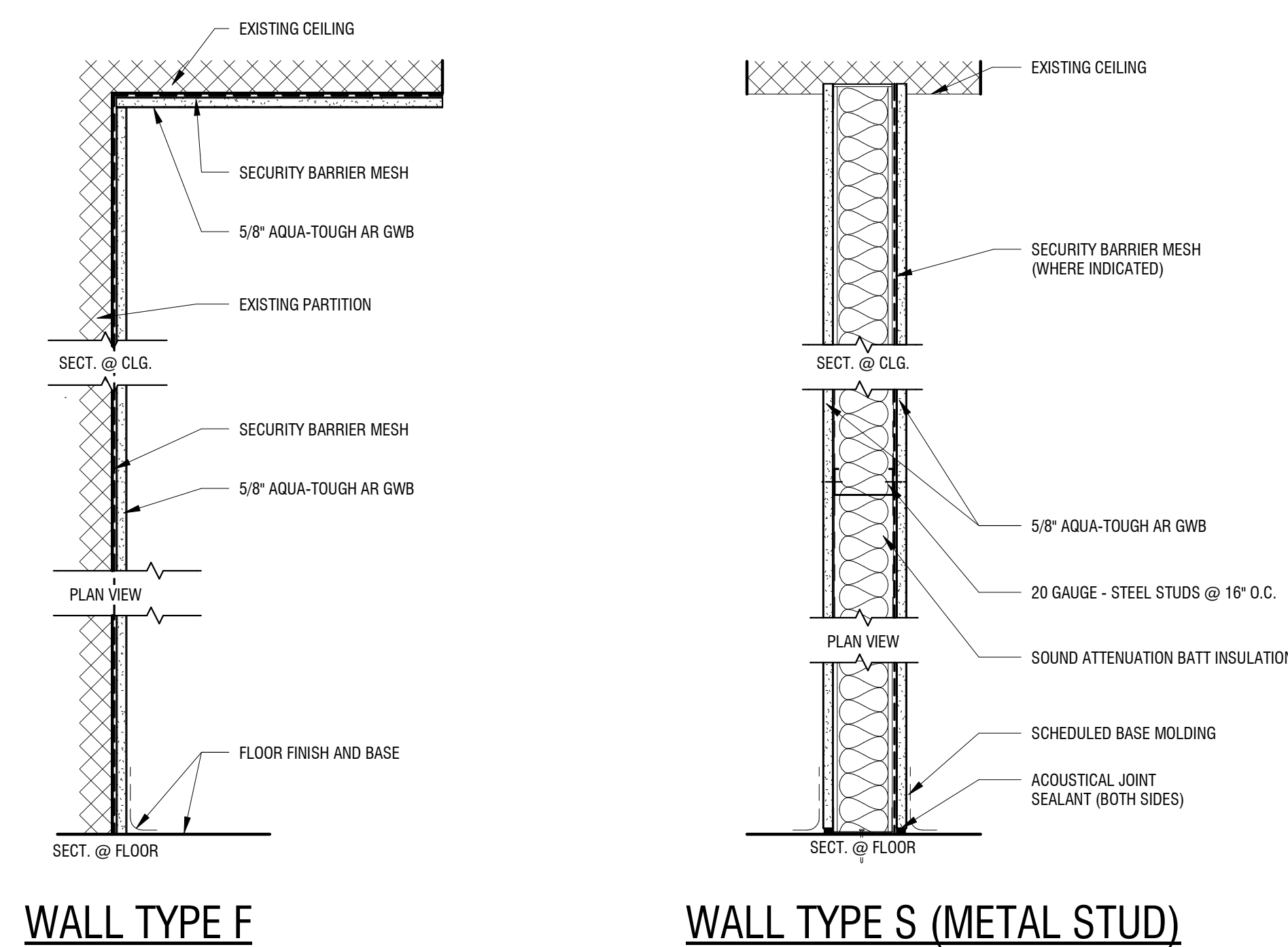
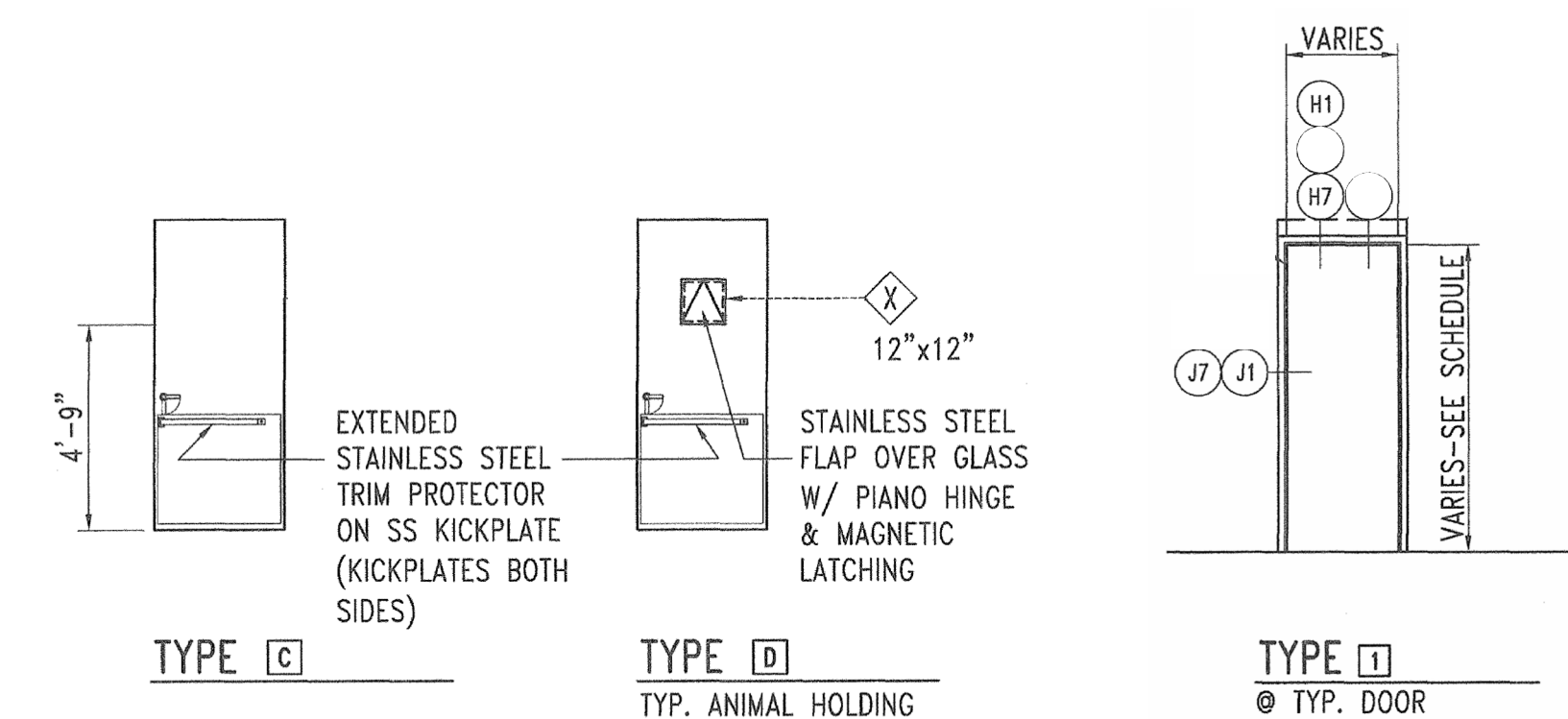
- CONTINUOUS HINGE; FM300 BY MARKAR
- MORTISE LOCK-SET; 8204-LNL BY SARGENT
- CLOSER; 351-PH10 BY SARGENT
- ARMOR PLATE; 36"(H) x W.O.D. (F) 1.5" K0050 BY TRIMCO
- HEAD & JAMB SEALS; 50500 BY NATIONAL GUARD
- TRIM PROTECTOR; R115LPB BY ROCKWOOD (MODIFY TO EXTEND ACROSS DOOR WIDTH)
- SEAL / SWEEP; 601C BY NATIONAL GUARD
- KICK-DOWN FLOOR STOP

NOTE:

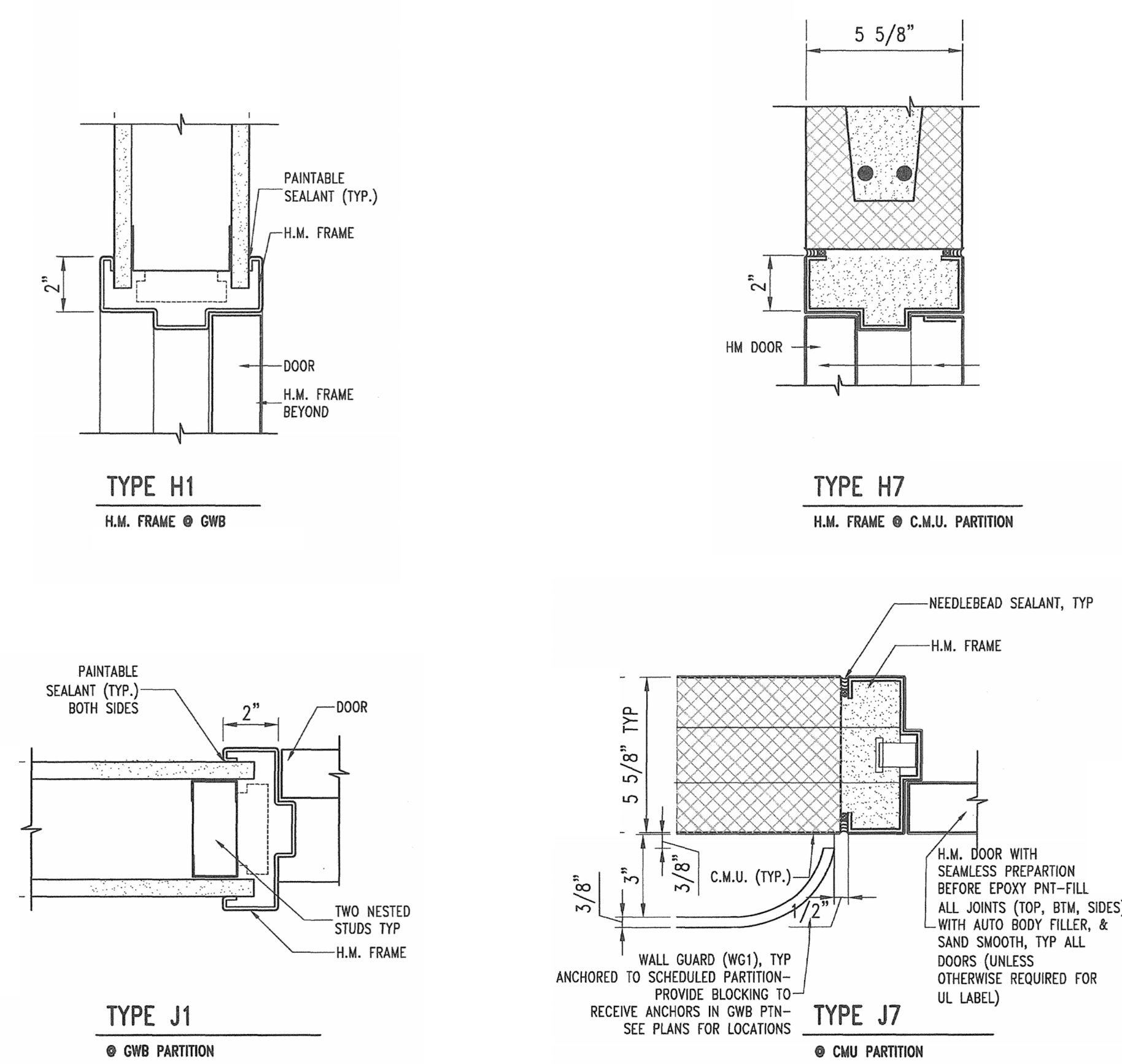
CONFIRM EXACT MATCH w/ EXISTING DOORS E1142A & B



HARDWARE SET #1
(MATCH EXISTING
DOORS E1142A & B)



PARTITION TYPES



DRAWING SYMBOLS

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GENERAL NOTES

- DUCTWORK GENERAL NOTES**
- HVAC CONTRACTOR TO PROVIDE CRANE AND NECESSARY EQUIPMENT TO HOIST ROOF MOUNTED HVAC EQUIPMENT FROM SITE TO FINAL ROOF LOCATION. GENERAL CONTRACTOR TO PROVIDE ALL ROOF PENETRATIONS REQUIRED TO ACCOMMODATE HVAC EQUIPMENT OPENINGS AND SET CURBS. HVAC CONTRACTOR TO COORDINATE EXACT LOCATION OF PENETRATIONS WITH G.C. AND SHALL ASSIST WITH SETTING ALL HVAC EQUIPMENT ROOF CURBS. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY CAP OF ALL ROOF PENETRATIONS IN INTERIM FROM TIME PENETRATIONS ARE COMPLETE TO TIME EQUIPMENT IS SET ON ROOF CURBS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING ALL EQUIPMENT CURBS AND OTHER HVAC RELATED ROOF PENETRATIONS. HVAC CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY CAP WHEN EQUIPMENT IS SET IN PLACE.
 - PROVIDE 45 DEGREE SHO-UP FITTING AND VOLUME DAMPER AT ALL BRANCH DUCT TAKE-OFFS (TOP, SIDE AND BOTTOM) FOR SUPPLY, RETURN AND EXHAUST AIR, UNLESS SHOWN OR NOTED OTHERWISE. VOLUME DAMPERS SHALL BE OMITTED FROM VAV INLET BRANCH DUCTWORK.
 - COORDINATE HVAC INSTALLATION WITH STRUCTURE, CEILING, LIGHTING, CONDUIT, HEATING AND DOMESTIC PIPING, STORM AND SANITARY DRAIN PIPING (ALL TRADES). PREPARE AND SUBMIT FULL COORDINATION DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO ORDERING MATERIALS AND/OR BEGINNING CONSTRUCTION.
 - INSULATE OR LINE DUCTWORK AS SPECIFIED IN THE MECHANICAL INSULATION AND METAL DUCTS SPECIFICATIONS OR NOTED ON DRAWINGS. NOTE THAT DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE NET CLEAR DIMENSIONS.
 - ALL 90 DEGREE RECTANGULAR ELBOWS AND DUCTWORK TEES SHALL BE HARD MITERED WITH FACTORY TURNING VANES. TURNING VANES SHALL BE OMITTED FROM AIR TRANSFER DUCT ELBOWS.
 - ALL DUCTWORK PASSING THROUGH NON-FIRE RATED WALLS TO BE SEALED AROUND PERIMETER (BOTH SIDES) WITH DRYWALL JOINT COMPOUND OR APPROVED EQUAL.
 - INLET OF VAV BOX TO BE ARRANGED SUCH THAT THERE IS NO RESTRICTION OF AIRFLOW. THERE SHALL BE A MINIMUM OF THREE DUCT DIAMETERS OF STRAIGHT DUCT (FLEX DUCT WILL NOT BE PERMITTED) UPSTREAM OF THE INLET. INLET DUCT SIZE TO BE SAME SIZE AS VAV BOX INLET COLLAR UNLESS NOTED OTHERWISE. REFER TO VAV BOX INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.
 - HVAC CONTRACTOR TO PROVIDE ALL WALL & ROOF PENETRATIONS 8"x8" OR SMALLER. ALL PENETRATIONS LARGER THAN 8"x8" IS THE RESPONSIBILITY OF THE G.C. COORDINATE ALL 8"x8" OR LARGER PENETRATION LOCATIONS WITH G.C. LINTELS (BY G.C.) REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. PENETRATIONS AND LINTEL LOCATIONS TO BE COORDINATED WITH G.C. AND DOCUMENTED ON COORDINATION DRAWINGS.
 - BALANCING CONTRACTOR TO SET MINIMUM OUTSIDE AIR DAMPER POSITION TO MEET VENTILATION AIR QUANTITIES REQUIRED AS SHOWN ON PLANS OR LISTED IN EQUIPMENT SCHEDULES.
 - ALL SUPPORT OF EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE BUILDING CODE OF NEW YORK STATE. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE STRUCTURAL STEEL WHERE REQUIRED IN ORDER TO SUPPORT EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES WHERE THE BUILDING STRUCTURE SPACING IS TOO GREAT TO ALLOW DIRECT SUPPORT. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMATION OF ALL SUPPORTS AND SHALL OBTAIN THE PROFESSIONAL SERVICE OF A STRUCTURAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND FURNISH SEALED DRAWINGS AND DETAILS ILLUSTRATING SUCH SUPPORTS AND COMPLIANCE METHODS.
 - THE ABOVE GENERAL NOTES APPLY TO ALL HVAC CONSTRUCTION DOCUMENT DRAWINGS.

APPLICABLE CODES

- BUILDING CODE OF NEW YORK STATE
- ENERGY CODE OF NEW YORK STATE
- MECHANICAL CODE OF NEW YORK STATE
- FIRE CODE OF NEW YORK STATE
- PLUMBING CODE OF NEW YORK STATE
- ENERGY CONSERVATION CODE OF NEW YORK STATE
- ACCESSIBLE AND USABLE BUILDING AND FACILITIES - CABQ/ANSI A117.1
- NATIONAL ELECTRIC CODE
- NATIONAL FIRE CODE NFPA 13

EQUIPMENT DESIGNATIONS

ACU	AIR CONDITIONING UNIT	HC	HEATING COIL
AHU	AIR HANDLING UNIT	HP	HEAT PUMP
AD	ACCESS DOOR	HU	HUMIDIFIER
AS	AIR SEPARATOR	HWP	HOT WATER PUMP
BDD	BACK DRAFT DAMPER	HX	HEAT EXCHANGER
B	BOILER	L	LOUVER
CA	AIR COMPRESSOR	MAU	MAKE UP AIR UNITS
CAV	CONSTANT AIR VOLUME BOX	MD	MOTORIZED DAMPER
CC	COOLING COIL	P	PUMP
CFP	CHEMICAL FEED PUMP	PHC	PREHEAT COIL
CH	CHILLER	PPU	PUMPING PACKAGED UNIT
CHP	CHILLED WATER PUMP	PRG	GAS PRESSURE REGULATOR
CP	CONDENSATE PUMP	PRV	PRESSURE REDUCING VALVE
CRAC	COMPUTER ROOM UNIT	R	REGISTER
CRU	CONDENSATE RETURN UNIT	RCP	RADIANT CEILING PANEL
CT	COOLING TOWER	RTU	ROOF TOP UNIT
CU	CONDENSING UNIT	UH	UNIT HEATER
CUH	CABINET UNIT HEATER	UV	UNIT VENTILATOR
CV	CONTROL VALVE	VAV	VARIABLE AIR VOLUME BOX
DHW	DOMESTIC WATER HEATER	VD	VOLUME DAMPER
EF	EXHAUST FAN	VSD	VARIABLE SPEED DRIVE
ET	EXPANSION TANK	WS	WATER SOFTENER
FCU	FAN COIL UNIT		
EP	FIRE PUMP		
ET	FINNED TUBE		

NOTE:
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

ABBREVIATIONS

%	PERCENT	FA	FREE AREA	NIC	NOT IN CONTRACT
AC	ALTERNATING CURRENT	FN	FINISHED	NO	NORMALLY OPEN
ADJ	ADJACENT	FL	FLOOR	NPT	NATIONAL PIPE TREAD
AFF	ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPS	NRS	NON-RISING STEM
AFG	ABOVE FINISHED GRADE	FPM	FEET PER MINUTE	NTS	NOT TO SCALE
ALT	ALTERNATE	FPS	FEET PER SECOND	OC	ON CENTER
AMB	AMBIENT	FT	FOOT OR FEET	OD	DIAMETER, OUTSIDE
AMP	AMPERE (AMP,AMPS)	FUT	FUTURE	OS&Y	OUTSIDE SCREW AND YOKE
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	GA	GAGE OR GAUGE	PC	PLUMBING CONTRACTOR
APPROX	APPROXIMATE (LY)	GAL	GALLONS	PLBG	PLUMBING
AVG	AVERAGE	GC	GENERAL CONTRACTOR	PHS	PHASE (ELECTRICAL)
BFP	BACKFLOW PREVENTER	GPM	GALLONS PER MINUTE	PRESS	PRESSURE
BHP	BRAKE HORSEPOWER	GPD	GALLONS PER DAY	PSF	POUNDS PER SQUARE FOOT
BLDG	BUILDING	GPH	GALLONS PER HOUR	PSI	POUNDS PER SQUARE INCH
BO	BOTTOM OF	HD	HEAD	PSIG	PSI GAUGE
BSMT	BASEMENT	HG	MERCURY	PRV	PRESSURE REDUCING VALVE
BTU	BRITISH THERMAL UNIT	HORIZ	HORIZONTAL	RCVR	RECEIVER
BV	BALANCING VALVE	HP	HORSEPOWER	RECIRC	RECIRCULATE
CAP	CAPACITY	HPC	HIGH PRESSURE CONDENSATE	RHW	HOT WATER RE-CIRCULATION
CIP	CAST IRON PIPE	HPS	HIGH PRESSURE STEAM	RO	ROUGH OPENING
CLG	CEILING	HR	HOUR	RPDA	REDUCED-PRESSURE DETECTOR ASSY.
CLR	CLEAR	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	RPM	REVOLUTIONS PER MINUTE
CO	CLEANOUT or CARBON MONOXIDE	HZ	FREQUENCY	RPZ	REDUCED-PRESSURE ZONE
COL	COLUMN	COL	COLUMN, INSIDE	SCH	STEAM CAPTURE HOOD
CONN	CONNECTION	ID	INCH	SPEC	SPECIFICATION
CONC	CONCRETE	INSUL	INSULATION	SPLY	SUPPLY
CONT	CONTINUOUS	INT	INTERIOR	SQ	SQUARE
CU FT	CUBIC FEET	IPS	IRON PIPE SIZE	SQ FT	SQUARE FOOT (FEET)
CV	VALVE FLOW COEFFICIENT	INV	INVERT	SQ IN	SQUARE INCH (INCHES)
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	KW	KILOWATT	STD	STANDARD
DCV	DETECTOR CHECK VALVE	KWH	KILOWATT HOUR	SUCT	SUCTION
DCW	DOMESTIC COLD WATER	LBS	POUNDS	TSTAT	THERMOSTAT
DEMO	DEMOLISH or DEMOLITION	LF	LINEAR FEET	TBD	TO BE DETERMINED
DHW	DOMESTIC HOT WATER	LG	LENGTH	TC	TEMPERATURE CONTROL CONTRACTOR
DIA	DIAMETER	LOC	LOCATION	TD	TEMPERATURE DIFFERENCE
DIP	DUCTILE IRON PIPE	LPC	LOW PRESSURE CONDENSATE	TEMP	TEMPERATURE
DWH	DOMESTIC WATER HEATER	LPS	LOW PRESSURE STEAM	TMV	THERMOSTATIC MIXING VALVE
DWV	DRAIN, WASTE, & VENT	LRA	LOCKED ROTOR AMPS	TOT	TOP OF
DWG	DRAWING	LWT	LEAVING WATER TEMPERATURE	TYP	TYPICAL
(E)	EXISTING	MATL	MATERIAL	V	VOLT
ENGR	ENGINEER	MAX	MAXIMUM	VAC	VACUUM
EQ	EQUAL	MBH	BTU PER HOUR (THOUSAND)	VAR	VARIABLE
EST	ESTIMATED	MECH	MECHANICAL	VEL	VELOCITY
ETR	EXISTING TO REMAIN	MFG	MANUFACTURER	VIF	VERIFY IN FIELD
EWH	ELECTRIC WATER HEATER	MIN	MINIMUM	VOL	VOLUME
EWT	ENTERING WATER TEMPERATURE	MISC	MISCELLANEOUS	W	WATT
EXIST	EXISTING	MOCP	MAXIMUM OVERCURRENT PROTECTION	W/	WITH
EXP	EXPANSION	MPC	MEDIUM PRESSURE CONDENSATE	W/O	WITH OUT
EXT	EXTENSION	MPS	MEDIUM PRESSURE STEAM	WCO	WALL CLEANOUT
F	DEGREES FAHRENHEIT	MTG	MOUNTING	WHA	WATER HAMMER ARRESTER
		N/A	NOT APPLICABLE	WM	WATER METER
		NC	NORMALLY CLOSED	WPD	WATER PRESSURE DROP
				WT	WEIGHT
				WWP	WORKING WATER PRESSURE

NOTE:
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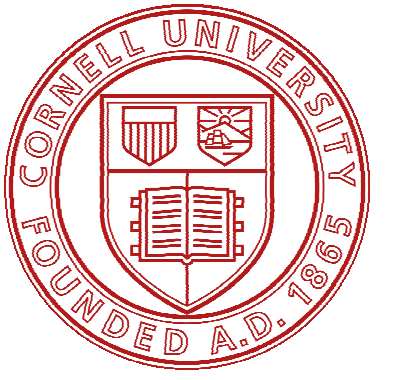


CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered, the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered" by followed by their signature and date of such alteration, and a specific description of the alteration.

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Ithaca, NY



**EAST CAMPUS
RESEARCH FACILITY
TRANSGENIC MOUSE
CORE RELOCATION**

EAST CAMPUS RESEARCH FACILITY

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2232366

DRAWN BY: SIK

REVIEWED BY: JWT

ISSUED FOR: BID

DATE: 03/18/24

DRAWING NAME:

MECHANICAL LEGEND SHEET

DRAWING NUMBER:

M001

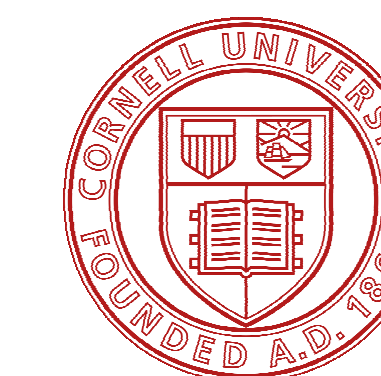


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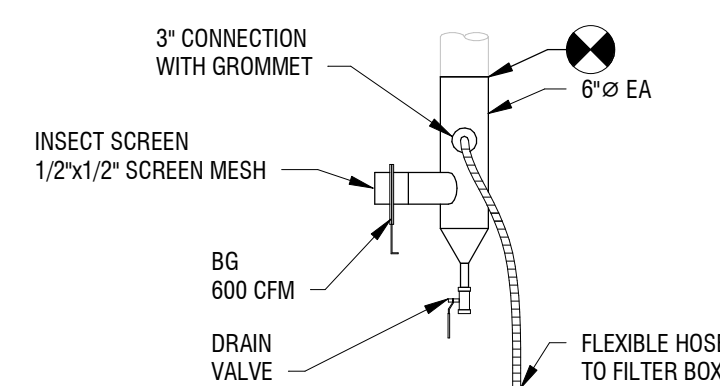
**PARTIAL THIRD FLOOR PLAN -
DUCTWORK**

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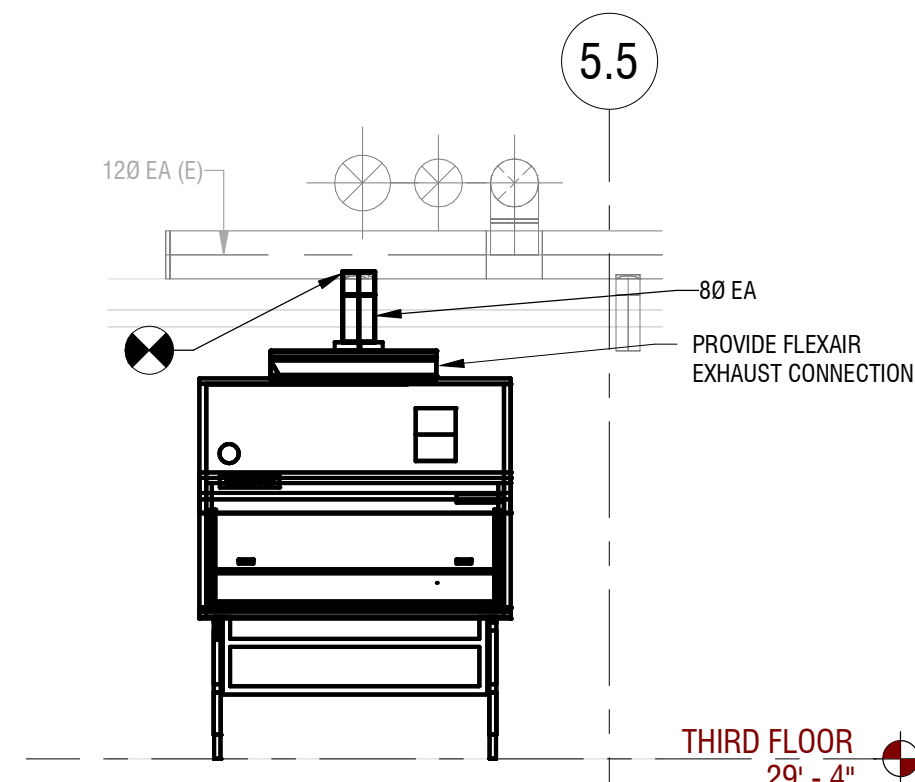
M103

KEYED NOTES

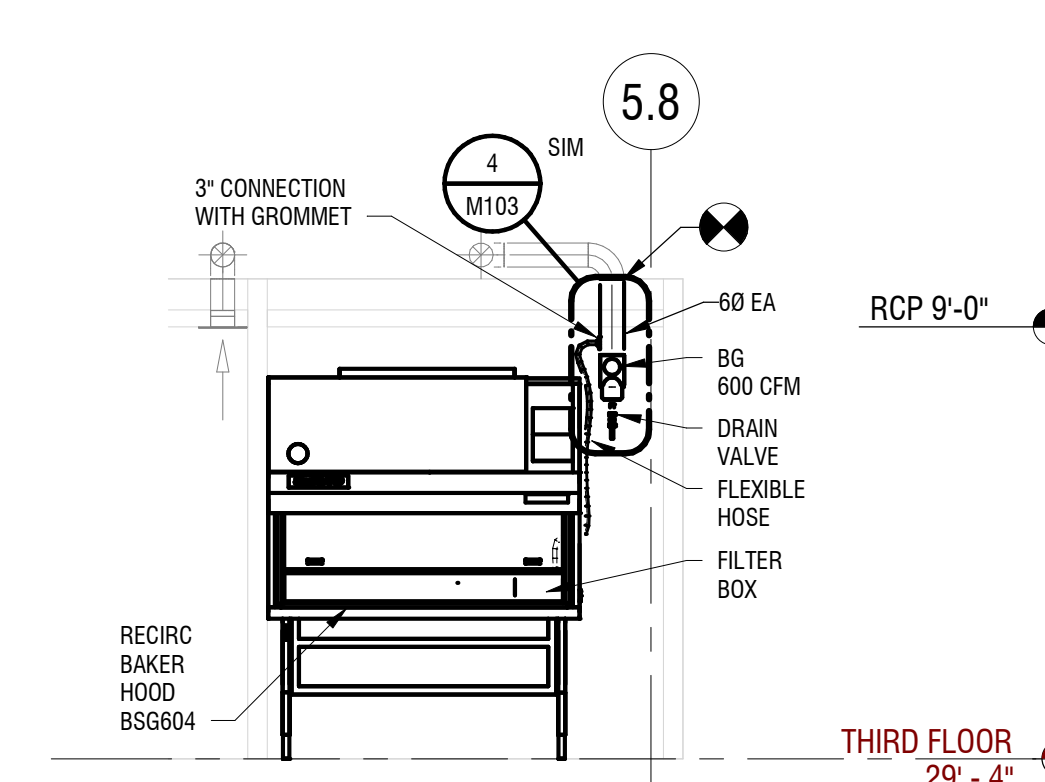
- 1 TYPICAL DETAIL, SEE SECTION 2, DWG M103.
- 2 TYPICAL DETAIL, SEE SECTION 3, DWG M103.



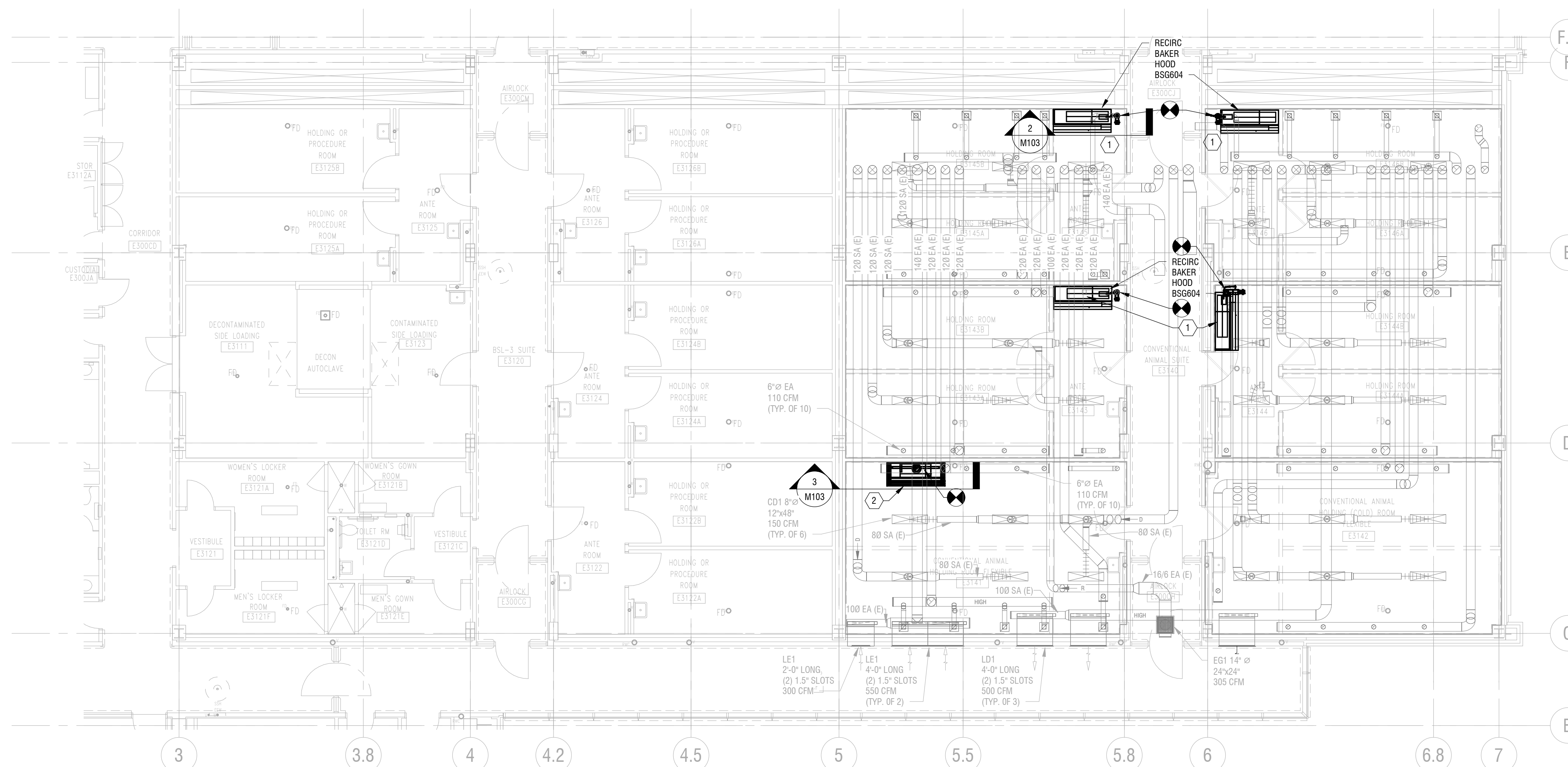
4 DUCTWORK DETAIL
M103 NOT TO SCALE



3 DUCTWORK SECTION VIEW LOOKING EAST
M103 1/4" = 1'-0"



2 DUCTWORK SECTION VIEW LOOKING EAST
M103 1/4" = 1'-0"



1 PARTIAL THIRD FLOOR PLAN - DUCTWORK
M103 1/8" = 1'-0"

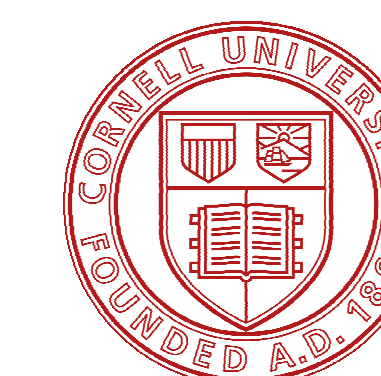


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**EAST CAMPUS
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CORE RELOCATION**
EAST CAMPUS RESEARCH FACILITY

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2232366

DRAWN BY: SIK

REVIEWED BY: JWT

ISSUED FOR: BID

DATE: 03/18/24

DRAWING NAME:

**ENLARGED FIRST FLOOR PLAN
ROOMS E1118 AND E1118A**

DRAWING NUMBER:

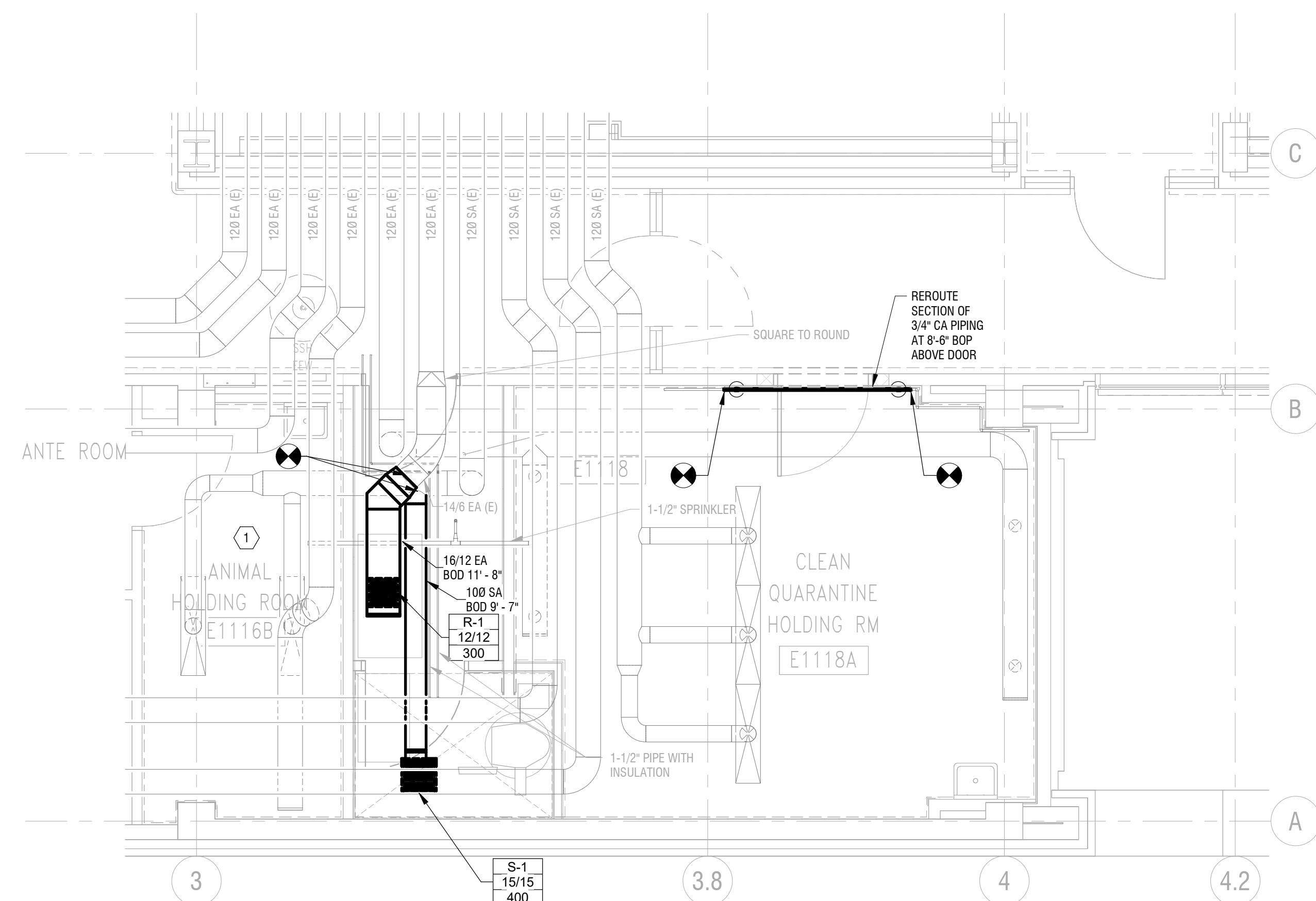
M401

DIFFUSER AND GRILLE SCHEDULE

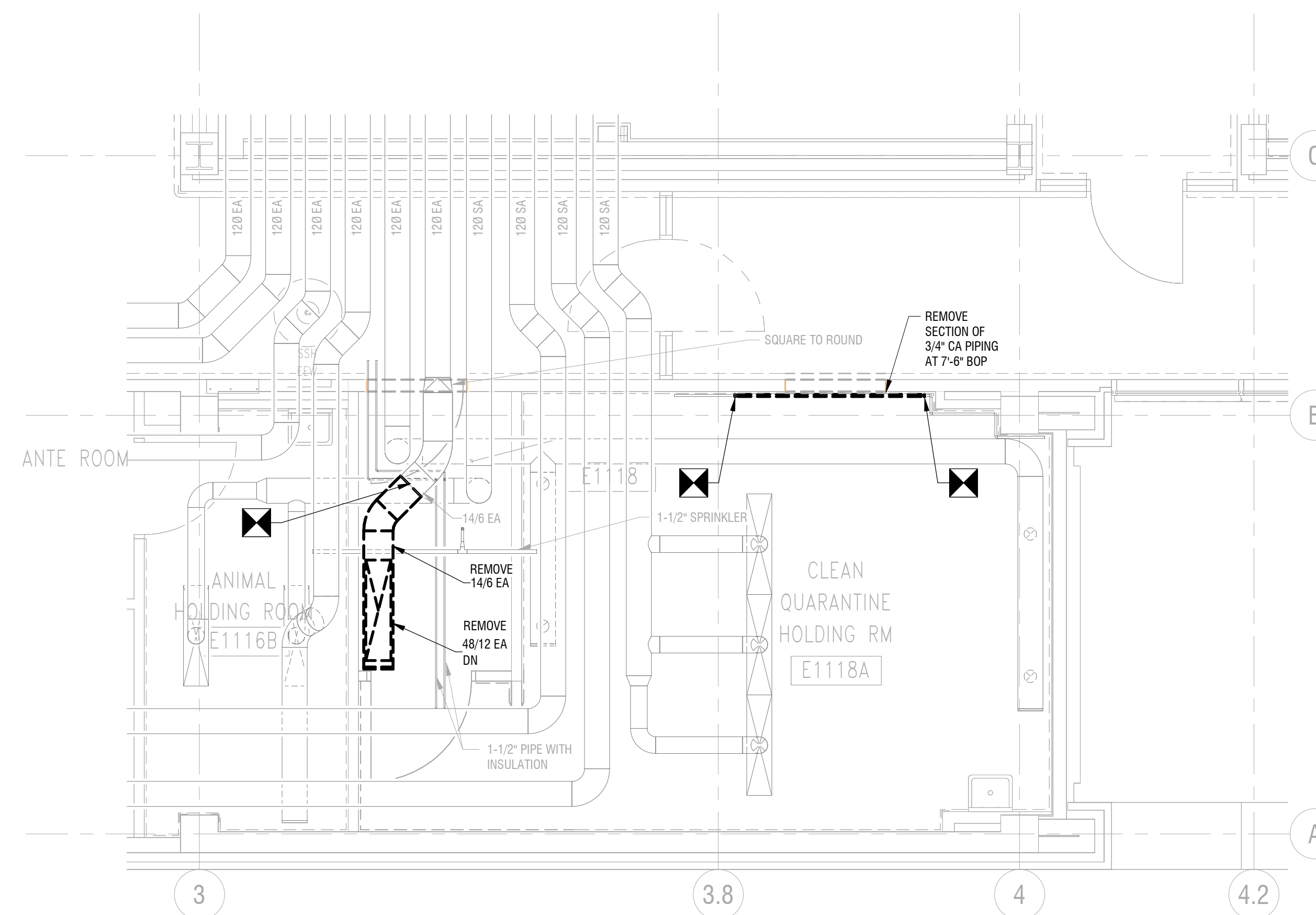
TYPE NO.	NECK SIZE	FACE SIZE	TYPE	MATERIAL	AIR FLOW INFORMATION		HORIZONTAL PERFORMANCE DATA			DEFLECTION	DAMPER	MOUNTING	USE	FINISH COLOR	MANUFACTURER	MODEL	NOTES		
					CFM	VELOCITY	NC LEVEL	PRESSURE	THROW @ 150 FPM									THROW @ 100 FPM	THROW @ 50 FPM
R-1	12"x12"		RETURN LINEAR BAR	ALUMINUM	300	571	<15	0.02	14	17	21	30	OBD	SURFACE MOUNTED	RETURN	WHITE	GREENHECK	XG-SG2030	
S-1	15"x15"		SUPPLY	ALUMINUM	400	256	19	0.022	14	17	22	30	OBD	SURFACE MOUNTED	SUPPLY	WHITE	GREENHECK	XG-SG5500	

KEYED NOTES

- 1 BALANCER SHALL TAKE MEASUREMENTS PRIOR TO CONNECTION. AFTER CONSTRUCTION IS COMPLETED, BALANCER SHALL REBALANCE SYSTEM.



2 ENLARGED FIRST FLOOR PLAN - DUCTWORK ROOMS E1118A AND E1118
M401 1/4" = 1'-0"
0' 2' 4' 8'



1 ENLARGED FIRST FLOOR PLAN - DUCTWORK ROOMS E1118A AND E1118- DEMOLITION
M401 1/4" = 1'-0"
0' 2' 4' 8'

ELECTRICAL LEGEND

ABBREVIATIONS	ELECTRICAL GENERAL NOTES	DEVICE SUBSCRIPTS	RACEWAY, BOXES, & BUSWAY																
<p>° DEGREES Δ DELTA Ω OHMS Ø PHASE Y WYE</p> <p>A AMPERE AFCI ARC-FAULT CIRCUIT INTERRUPTING AFD AMPERE FUSE AFF ABOVE FINISHED FLOOR AFS AMPERE FRAME SIZE AFG ABOVE FINISHED GRADE AHJ AUTHORITY HAVING JURISDICTION AHU AIR HANDLING UNIT AIC AMPERE INTERRUPTING CAPACITY ALUM ALUMINUM AM AMMETER ANN ANNUNCIATOR ANSI AMERICAN NATIONAL STANDARDS INSTITUTE ATS AUTOMATIC TRANSFER SWITCH AV AUDIO VISUAL AVG AVERAGE AWG AMERICAN WIRE GAUGE</p> <p>BAS BUILDING AUTOMATION SYSTEM BFC BELOW FINISHED CEILING BFG BELOW FINISHED GRADE BKB BOARD BLDG BUILDING</p> <p>CND CONDUIT CAT CATALOG CTV CABLE TELEVISION CB CIRCUIT BREAKER CCTV CLOSED CIRCUIT TELEVISION CKT CIRCUIT CLG CEILING CM CONSTRUCTION MANAGER CO COMPANY/CARBON MONOXIDE COAX COAXIAL CABLE CT CURRENT TRANSFORMER CTS CLOSE TRANSITION TRANSFER SWITCH CU COPPER</p> <p>DC DIRECT CURRENT DIA DIAMETER DISC DISCONNECT DIV DIVISION DN DOWN DO DRAWOUT DPT DOUBLE POLE DOUBLE THROW DPST DOUBLE POLE SINGLE THROW DSP DIGITAL SIGNAL PROCESSOR DVD DIGITAL VERSATILE DISC DVR DIGITAL VIDEO RECORDER DVS DIGITAL VIDEO SURVEILLANCE DRAWING</p> <p>EA EACH EC ELECTRICAL CONTRACTOR ECB ENCLOSED CIRCUIT BREAKER E EXHAUST FAN EGS ENGINE-GENERATOR SET EGC EQUIPMENT GROUNDING CONDUCTOR ELEC ELECTRIC ELEV ELEVATOR EM EMERGENCY EMT ELECTRICAL METALLIC TUBING END END OF LINE DEVICE EQUIP EQUIPMENT EWC ELECTRIC WATER COOLER EXH EXHAUST EPRF EXPLOSION PROOF</p> <p>FA FIRE ALARM FAAP FIRE ALARM ANNUNCIATOR PANEL FACP FIRE ALARM CONTROL PANEL FATC FIRE ALARM TERMINAL CABINET FC FOOTCANDLE FLR FLOOR FLUOR FLUORESCENT FU SW FUSED SWITCH FTL FEED THRU LUSS</p> <p>Gb GIGABIT Gc GENERAL CONTRACTOR GEC GROUND ELECTRODE CONDUCTOR GEN GENERATOR GFCI GROUND FAULT CIRCUIT INTERRUPTING GFI GROUND FAULT INTERRUPTING G GROUND</p> <p>HID HIGH INTENSITY DISCHARGE HOA HAND-OFF-AUTO HP HORSEPOWER HST HARMONIC SUPPRESSION TRANSFORMER HTR HEATER HV HIGH VOLTAGE HZ HERTZ (CYCLES/SECOND)</p> <p>ICC INTERMEDIATE CROSS CONNECT ID INSIDE DIAMETER IMC INTERMEDIATE METAL CONDUIT IP INTERNET PROTOCOL IR INFRARED</p> <p>J-BOX JUNCTION BOX</p> <p>kAIC KILOAMPERE INTERRUPTING CURRENT kAIR KILOAMPERE INTERRUPTING RATING KO KNOCK OUT KV KILOVOLT kVA KILOVOLT AMPERE kW KILOWATT kWh KILOWATT HOUR</p> <p>LAN LOCAL AREA NETWORK LCD LIQUID CRYSTAL DISPLAY LCP LIGHTING CONTROL PANEL LED LIGHT EMITTING DIODE LS LIFE SAFETY LSI LONG, SHORT, INSTANTANEOUS (BREAKER FUNCTION) LTG LIGHTING LV LOW VOLTAGE</p> <p>MAG MAGNETIC MAN MANUAL MAX MAXIMUM MATV MASTER ANTENNA TELEVISION Mb MEGABIT MC MECHANICAL CONTRACTOR MCA MINIMUM CIRCUIT AMPERES MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MCS MOLDED CASE SWITCH MCP MOTOR CIRCUIT PROTECTOR MDF MAIN DISTRIBUTION FRAME MDP MAIN DISTRIBUTION PANELBOARD MECH MECHANICAL MFR MANUFACTURER MH MANHOLE MI MINERAL INSULATED CABLE MIC MICROPHONE MIN MINIMUM MLO MAIN LUSS ONLY MM MULTIMODE MOCP MAXIMUM OVERCURRENT PROTECTION MTD MOUNTED MTS MANUAL TRANSFER SWITCH MV MEDIUM VOLTAGE</p> <p>NEUT NEUTRAL NA NOT APPLICABLE NCC NORMALLY CLOSED CONTACT NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NFPA NATIONAL FIRE PROTECTION ASSOCIATION NIC NOT IN CONTRACT NL NIGHT LIGHT NLO NORMALLY OPEN CONTACT NOM NOMINAL NTS NOT TO SCALE</p> <p>OC ON CENTER OCPD OVERCURRENT PROTECTIVE DEVICE OD OUTSIDE DIAMETER OFCI OWNER FURNISHED/CONTRACTOR INSTALLED OFI OWNER FURNISHED/OWNER INSTALLED OH OVERHEAD OL OVERLOAD</p> <p>PA P Pole PA PUBLIC ADDRESS PB PULLBOX PC PERSONAL COMPUTER PH PHASE PNL PANEL PLC PROGRAMMABLE LOGIC CONTROLLER POE POWER OVER ETHERNET PRI PRIMARY PT POTENTIAL TRANSFORMER PTZ PAN TILT ZOOM PVC POLYVINYL CHLORIDE PWR POWER</p> <p>RAID REDUNDANT ARRAY OF INDEPENDENT DISKS RCP REFLECTED CEILING PLANS REC RECEPTACLE REF REFRIGERATOR RF RADIO FREQUENCY RFID RADIO FREQUENCY IDENTIFICATION DEVICE RM ROOM RMC RIGID METAL CONDUIT</p> <p>SCHED SCHEDULE SDMPR SMOKE DAMPER SEC SECONDARY SF SUPPLY FAN SFL SUB FEED LUSS SM SINGLE MODE SPD SURGE PROTECTIVE DEVICE SPDT SINGLE POLE DOUBLE THROW SPST SINGLE POLE SINGLE THROW SPEC SPECIFICATION SPKR SPEAKER SST STAINLESS STEEL STD SHORT TIME DELAY STP SHIELDED TWISTED PAIR STR STARTER SWBD SWITCHBOARD SWGR SWITCHGEAR SYMM SYMMETRICAL</p> <p>TB TERABYTES TBB TELECOMMUNICATIONS BONDING BACKBOX TC TERMINAL CABINET TERM TERMINAL TEL TELEPHONE TER TELECOM EQUIPMENT ROOM THD TOTAL HARMONIC DISTORTION TMGB TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TRANS TRANSITION TSER TELECOMMUNICATIONS SERVICE ENTRANCE ROOM TV TELEVISION TYP TYPICAL</p> <p>UNGD UNDERGROUND ULN UNDERWRITERS LABORATORIES UNO UNLESS NOTED OTHERWISE UPS UNINTERRUPTIBLE POWER SUPPLY USS UNIT SUBSTATION UTP UNSHIELDED TWISTED PAIR</p> <p>V VOLT VA VOLT-AMPERE VAC VOLTS ALTERNATING CURRENT VDC VOLTS DIRECT CURRENT VFD VARIABLE FREQUENCY DRIVE VSD VARIABLE SPEED DRIVE</p> <p>W WATT WAN WIDE AREA NETWORK WAP WIRELESS ACCESS POINT WG WIRE GAURD WP WEATHERPROOF WR WEATHER RESISTANT WSA WIRE SIZING AMPS</p> <p>XFMR TRANSFORMER</p> <p>1. FOR EXACT LOCATIONS AND SURFACE FINISH CONDITIONS OF CEILINGS, WALLS, OR FLOORS, REFER TO ARCHITECTURAL DRAWINGS.</p> <p>2. REFER TO HAZARDOUS MATERIALS DRAWINGS FOR LOCATIONS OF HAZARDOUS OR POSSIBLE HAZARDOUS MATERIALS BEFORE PERFORMING ANY WORK ON EXISTING STRUCTURES.</p> <p>3. FOR EXACT LOCATION OF FACILITY EXPANSION JOINTS, FIRE RATED WALLS, AND SMOKE WALLS, REFER TO ARCHITECTURAL DRAWINGS.</p> <p>4. FOR EXACT LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES, AND TAMPER SWITCHES REFER TO HVAC / FP DRAWINGS [AND COORDINATE WITH THE HVAC / FP CONTRACTOR].</p> <p>5. VERIFY EXACT LOCATION OF CONNECTION POINTS PRIOR TO ROUGH-IN.</p> <p>6. COORDINATE LOCATIONS OF ALL RECEPTACLES AND LUMINAIRES IN MECHANICAL SPACES WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN TO AVOID CONFLICTS WITH EQUIPMENT AND DUCTWORK.</p> <p>7. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS NOTED OTHERWISE. EXCEPT FOR PENDANT LIGHTING WHICH ARE TO THE BOTTOM OF THE LUMINAIRE. FOR AREAS WITH DIFFERENT FLOOR LEVELS, HEIGHT IS BASED UPON CLOSEST FLOOR OR LANDING TO DEVICE. EQUIPMENT, OR LUMINAIRE. ELEVATIONS GIVEN ON LEGEND SHEET ARE UNLESS NOTED OTHERWISE ON DRAWINGS.</p> <p>8. PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO LOCAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.</p> <p>9. MINIMUM BRANCH CIRCUIT WIRE SIZE SHALL BE #12 AWG [EXCEPT LIFE SAFETY/EMERGENCY BRANCH CIRCUIT WIRING WHICH SHALL BE MINIMUM #10 AWG], SIZE BRANCH CIRCUIT CONDUCTORS AS PER NEC AND AS SCHEDULED ON THIS DRAWING BASED ON ACTUAL CIRCUIT DISTANCE. INCLUDE GROUND CONDUCTOR DERATINGS.</p> <p>10. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS REQUIRING A NEUTRAL CONNECTION. DERATE CONDUCTORS PER NEC ACCORDINGLY. MULTIWIRE BRANCH CIRCUITS ARE NOT ACCEPTABLE.</p> <p>11. PROVIDE GROUNDING PER NEC & TIA 607B. PROVIDE GREEN GROUND CONDUCTOR IN ALL BRANCH AND FEEDER CIRCUITS.</p> <p>12. DO NOT INSTALL ANY NEW WORK DIRECTLY ABOVE ANY ELECTRICAL PANELS, SWITCHBOARDS, SWITCHGEAR, OR TRANSFORMERS.</p> <p>13. CIRCUIT NUMBERS SHOWN FOR EQUIPMENT TO BE CONNECTED TO EXISTING PANELBOARD(S) IS SHOWN FOR DESIGN INTENT ONLY AND MAY NOT CORRESPOND TO ACTUAL CIRCUIT BREAKER MOUNTING POSITION IN THE PANEL. UPDATE THE RECORD DRAWINGS & PANELBOARD DIRECTORY WITH THE ACTUAL CIRCUIT NUMBERS USED TO CORRESPOND TO THE PANEL DIRECTORY.</p> <p>14. CONFIRM ALL LABELS AND ROOM NUMBERS WITH OWNER PRIOR TO FINALIZING LABELING AND PROGRAMMING.</p> <p>15. COORDINATE FINAL OUTLET LOCATION WITH ALL TRADES AND FURNITURE/MILLWORK PLACEMENT PRIOR TO ROUGH-IN. GENERAL CONTRACTOR SHALL PROVIDE ALL DRILLING AND GROMMETING IN FURNITURE/CASEWORK FOR CORD ACCESS IF REQUIRED.</p> <p>16. SWITCHES SHOWN SIDE BY SIDE OR GANGED SHALL BE INSTALLED UNDER A COMMON COVERPLATE, UNLESS NOTED OTHERWISE.</p> <p>17. PROVIDE FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, CEILINGS, & ROOFS AS CALLED OUT ON ARCHITECTURAL PLANS. PROVIDE ACOUSTICAL SEALANT AT PENETRATIONS THROUGH ALL NON-FIRE RATED WALLS, FLOORS, & CEILINGS.</p> <p>18. PROVIDE CONDUIT EXPANSION JOINTS AT ALL EXPANSION JOINTS AS CALLED OUT ON ARCHITECTURAL PLANS.</p> <p>19. SITE PLAN CONDUIT ROUTING SHOWN FOR INTENT. REFERENCE CIVIL DRAWINGS FOR UNDERGROUND COORDINATION AND DISTANCE OF RUNS. COORDINATE WITH ALL TRADES.</p> <p>20. FINAL QUANTITY AND LOCATION OF WIRELESS DATA OUTLETS IDENTIFIED ON THE FLOOR PLANS SHALL BE VERIFIED WITH THE WIRELESS ACCESS POINT MANUFACTURER BASED ON THE MODEL NUMBER UTILIZED PRIOR TO INSTALLATION/ROUGH-IN.</p> <p>ELECTRICAL DEMOLITION GENERAL NOTES</p> <p>1. REMOVE ALL ELECTRICAL EQUIPMENT ON OR IN EXISTING WALLS, CEILINGS AND PARTITIONS WHICH ARE TO BE DEMOLISHED. WHERE EQUIPMENT IS SCHEDULED TO BE REMOVED, ABANDON CONCEALED RACEWAY AND REMOVE CONDUCTORS BACK TO SOURCE OR LAST SCHEDULED DEVICE TO REMAIN. REMOVE EXPOSED RACEWAY AND CONDUCTORS BACK TO POWER SOURCE OR LAST DEVICE SCHEDULED TO REMAIN IN ALL OTHER AREAS.</p> <p>2. WHERE EXISTING WALLS ARE TO REMAIN, REMOVE ALL EXPOSED RACEWAYS, SURFACE AND RECESSED OUTLET BOXES, ETC. WHICH ARE NOT TO BE REUSED. WHERE NEW CONDUITS AND OUTLETS ARE TO BE ADDED TO EXISTING WALLS IN FINISHED ROOMS, THEY SHALL BE CONCEALED BY CUTTING AND PATCHING THE WALLS UNLESS OTHERWISE NOTED.</p> <p>3. REARRANGE EXISTING CONDUITS AND WIRING TO ACCOMMODATE NEW CIRCUIT ARRANGEMENTS INDICATED AND TO MAINTAIN CONTINUITY OF EXISTING CIRCUITS FEEDING DEVICES THAT ARE TO REMAIN.</p> <p>4. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND REINSTALL EXISTING ELECTRICAL EQUIPMENT TO ACCOMMODATE THE WORK OF OR DISTURBED BY ALL TRADES.</p> <p>5. STORE REMOVED ELECTRICAL EQUIPMENT SUCH AS LUMINAIRES, POWER AND COMMUNICATION DEVICES, DISTRIBUTION EQUIPMENT, CONTROLLERS, ETC. ON JOB SITE FOR REUSE UNTIL SUBSTANTIAL COMPLETION OR PROJECT CLOSEOUT. PROVIDE OWNER RIGHT OF FIRST REFUSAL OF ELECTRICAL EQUIPMENT OTHERWISE REMOVE THOSE FROM SITE AT CONTRACTORS EXPENSE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS THAT THE OWNER DOES NOT WISH TO SALVAGE.</p> <p>6. EXISTING DEVICE LOCATIONS WERE IDENTIFIED AS COMPLETELY AS POSSIBLE BY A SITE SURVEY AND BY RECORD DOCUMENTS AS AVAILABLE. BE RESPONSIBLE FOR PROPER DEMOLITION AND REMOVAL OF DEVICES NOT SHOWN ON DRAWINGS BUT NECESSARY FOR PROJECT RENOVATIONS TO CONFORM WITH INTENT OF DOCUMENTS. VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL DEMOLITION WORK REQUIRED TO COMPLETE THE NEW CONSTRUCTION. CONTRACTOR SHALL PROVIDE IN BASE BID A NOMINAL AMOUNT OF UNKNOWN BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING BEING REMOVED OR RELOCATED FOR NEW WORK.</p> <p>7. WHERE DEMOLITION OF DEVICE OR EQUIPMENT AND REMOVAL OF CONDUIT OR OTHER ACCESSORY LEAVES OPENINGS IN THE FLOORS, WALLS, OR CEILINGS, SAME SHALL BE PATCHED AND PAINTED TO MATCH EXISTING ADJACENT FINISH. ALL OPENINGS IN FLOORS SHALL BE PINNED WITH REBAR.</p> <p>8. REFER TO DEMOLITION DRAWINGS & NOTES OF ALL CONTRACTS OR TRADES FOR COORDINATION.</p> <p>9. IN AREAS OF DEMOLITION WHERE THE REMOVAL OF ELECTRICAL EQUIPMENT INTERFERES WITH THE NORMAL BUILDING OPERATIONS AND SYSTEMS, CONSULT WITH THE OWNER PRIOR TO PERFORMING ANY DEMOLITION.</p> <p>10. WHERE UNFORESEEN CONDITIONS CONFLICT WITH CONTRACT DOCUMENTS, SUBMIT AN RFI PRIOR TO PROCEEDING WITH ANY WORK.</p> <p>11. WHERE DEVICES ARE SCHEDULED FOR RELOCATION, DISCONNECT AND REMOVE EXISTING DEVICE AND REMOVE ASSOCIATED WIRING. RELOCATE DEVICE AS SHOWN, EXTEND WIRING AS REQUIRED, AND MATCH EXISTING.</p> <p>12. WHERE REMOVALS AFFECT EXISTING CIRCUITS SCHEDULED TO REMAIN, MAINTAIN CONTINUITY OF POWER TO THESE CIRCUITS AND EXTEND WIRING AS NEEDED.</p> <p>13. WHERE ANY EMPTY BACKBOXES OR EMPTY JUNCTION BOXES REMAIN DUE TO ELECTRICAL DEMOLITION, PROVIDE COVERPLATE(S) OVER EXISTING BOX(ES).</p> <p>14. WHERE EQUIPMENT CONNECTIONS ARE SHOWN, REMOVE ELECTRICAL CONNECTION, CONDUIT AND WIRE BACK TO POWER SOURCE. DISCONNECT AND REMOVE ASSOCIATED CONTROLLER SERVING EQUIPMENT AND ASSOCIATED CONTROL WIRING.</p> <p>15. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ANY AND ALL EXISTING ELECTRIC WORK REQUIRED TO REMAIN, BUT INTERFERING WITH NEW CONSTRUCTION.</p> <p>16. WHERE DEMOLITION NOTES SCHEDULE EXISTING WIRING DEVICES, LIGHTING FIXTURES, SYSTEMS DEVICES, EQUIPMENT CONNECTIONS, ETC. TO BE "DISCONNECTED AND REMOVED IN THE ENTIRETY", THE CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING LIGHTING FIXTURE, WIRING DEVICES, COVERPLATES, BRANCH CIRCUIT WIRING, CONDUIT OR RACEWAY, OUTLET AND/OR SPLICE BOX(ES) ETC. BACK TO EITHER LAST DEVICE SCHEDULED TO REMAIN, OR BACK TO POWER SOURCE.</p> <p>17. PROPERLY DISPOSE OF ALL PCB CONTAINING FLUORESCENT BALLASTS MANUFACTURED PRIOR TO 1980 ACCORDING TO STATE AND FEDERAL REGULATIONS.</p> <p>18. IF ADDITIONAL SUSPECT ASBESTOS-CONTAINING MATERIALS ARE DISCOVERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL COOPERATE WITH THE OWNER AND ARCHITECT TO WITH REGARD TO CONDUCTING ADDITIONAL BULK SAMPLING AND ABATEMENT AT THE OWNERS EXPENSE.</p> <p>19. DISCONNECT AND REMOVE RECEPTACLES, LIGHTING, & ABANDONED DEVICES & RACEWAY. UNLESS NOTED OTHERWISE, LOW VOLTAGE CONTROL WIRING FOR PROCESS EQUIPMENT IS EXCLUDED FROM DEMOLITION SCOPE. 120V OR HIGHER CONNECTIONS TO PROCESS EQUIPMENT IS INCLUDED IN SCOPE. PREPARE EQUIPMENT FOR RECONNECTION WHERE SHOWN.</p> <p>II ROMAN NUMERAL INDICATES QUANTITY OF GANGED DEVICES UNDER COMMON FACEPLATE +xx HEIGHT OF DEVICE ABOVE FINISHED FLOOR (IN INCHES) a LOWER CASE LETTER(S) INDICATES SWITCH CONTROL ARRANGEMENT 5 NUMERAL INDICATES BRANCH CIRCUIT NUMBER (POWER & LIGHTING)/CANDELA RATING (FIRE ALARM DEVICES) A WITH AUXILIARY CONTACTS AC1 INSTALL ABOVE COUNTER, AT 40" AFF. COORDINATE WITH GC B REMOVE DEVICE AND INSTALL BLANK COVERPLATE CH CLOCK HANGER RECEPTACLE CL INSTALL FLUSH IN CEILING CLS INSTALL ON SURFACE OF CEILING D DIMMER SWITCH (LIGHTING CONTROL) E EXISTING BACKBOX TO REMAIN AND BE REUSED EN EXISTING BACKBOX WITH NEW DEVICE EO EQUIPMENT SUPPLIED BY OWNER EQ INSTALL IN EQUIPMENT/CASEWORK ERL EXISTING TO BE RELOCATED ETR EXISTING TO REMAIN EWC RECEPTACLE FOR WATER COOLER. COORDINATE EXACT LOCATION WITH GC & PC PRIOR TO ROUGH-IN FL INSTALL FLUSH IN FLOOR FB INSTALL IN FLOORBOX/POKETHRU FRA FIRE RATED ASSEMBLY GFCI GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE GFI GROUND FAULT CIRCUIT INTERRUPTING BREAKER PROTECTED GFP FEED THROUGH GROUND FAULT CIRCUIT INTERRUPTING PROTECTED H INSTALL HORIZONTALLY HA HIGH ABUSE COVERPLATE WITH CENTER PIT REJECT SCREWS IG ISOLATED GROUND RECEPTACLE L LOCATOR STYLE TOGGLE SWITCH (PILOT LIGHT 'ON' WHILE DEVICE IS OFF OR UNPOWERED) LV LOW VOLTAGE M MOMENTARY M MULLION MOUNT N INDICATES NEW DEVICE NIC NOT IN CONTRACT PROVIDED BY OTHERS NL NIGHT LIGHT LUMINAIRE (UNSWITCHED / INTEGRAL NIGHT LIGHT STYLE RECEPTACLE) O OCCUPANCY SENSOR (AUTOMATIC 'ON' LIGHTING SENSOR SWITCH) P PILOT STYLE TOGGLE SWITCH (PILOT LIGHT 'ON' WHILE DEVICE IS ON OR POWERED) PH FOR PHONE, INSTALL 54" AFF PI POWER INDICATING RECEPTACLE PP BACKBOX FOR AUTODOOR PUSH PLATE R* RECEPTACLE FOR REFRIGERATOR, INSTALL 44" AFF REF SURGE PROTECTOR STYLE RECEPTACLE S SR SURGE PROTECTOR STYLE RECEPTACLE SR SR SURGE PROTECTOR STYLE RECEPTACLE SW SPLIT WIRED RECEPTACLE FOR REMOTE SWITCHING SW DIGITAL ELECTRONIC INTERVAL TIMER (LIGHTING SWITCH) T TAMPER RESISTANT TR DIGITAL ELECTRONIC PROGRAMMABLE TIME SWITCH (LIGHTING SWITCH) TS FOR TELEVISION/MONITOR, INSTALL 72" AFF TV INSTALL UNDER COUNTER. COORDINATE EXACT LOCATION WITH GC PRIOR TO ROUGH-IN UC RECEPTACLE WITH USB CHARGING PORTS USB VACUANCY SENSOR (MANUAL 'ON' LIGHTING SENSOR SWITCH) V INSTALL 44" AFF W WIRE GUARD WG WEATHERPROOF DEVICE / WEATHERPROOF WHILE-IN-USE EXTRA DUTY COVER & WEATHER RESISTANT RECEPTACLE WPS WEATHERPROOF SPRING-LOADED COVER/WEATHERPROOF CLOSED/DAMP LOCATION COVER) & WEATHER RESISTANT RECEPTACLE WR WEATHER RESISTANT DEVICE/WEATHER RESISTANT RECEPTACLE Z* DEVICE ZONE IDENTIFIER (* INDICATES ZONE NUMBER)</p> <p>GENERAL LINEWORK DESCRIPTIONS & DRAWINGS NOTES</p> <p>--- NEW WORK</p> <p>- - - EXISTING WORK / FUTURE PROVISIONS / NOT IN CONTRACT WORK</p> <p>--- WORK TO BE REMOVED (DEMO PLANS) - DEVICE AND ALL ASSOCIATED ELECTRICAL WORK SHALL BE REMOVED BACK TO THE SOURCE, UNLESS NOTED OTHERWISE / UNDERFLOOR CONDUIT (NEW PLANS)</p> <p>--- WIRE AND / OR CONDUIT RUN CONTINUED ON REFERENCED DETAIL</p> <p>--- MATCH LINE REFERENCING CONTINUATION ON OTHER DRAWING</p> <p>--- CALLOUT BOUNDARY - DETAIL AND / OR SECTION REFERENCE / SCOPE OF WORK</p> <p>--- BRANCH CIRCUIT BOUNDARY</p> <p># DRAWING KEYED NOTES</p> <p># BRANCH CIRCUITING NOTES</p> <p># FEEDER IDENTIFICATION</p> <p># KITCHEN / LAB EQUIPMENT TAG</p> <p>□ SYMBOL WITH TAIL INDICATES WALL INSTALLATION, HEIGHT AS INDICATED</p> <p>∟ INDICATES MULTIPLE DEVICES OF DIFFERENT TYPES INSTALLED UNDER COMMON COVERPLATE AT ONE LOCATION (DEVICES SHALL BE INSTALLED UNDER A COMMON COVERPLATE)</p> <p>BRANCH CIRCUIT CONDUCTOR SIZING</p> <p>CIRCUIT NOTATION:</p> <p>11,13 → CIRCUIT NUMBER(S) 1LN1 → SOURCE PANELBOARD (IF OTHER THAN NOTED ON SHEET/CIRCUIT BOUNDARY)</p> <p>PROVIDE MINIMUM WIRE SIZE AS FOLLOVED UNLESS NOTED OTHERWISE: 20A CB - #12 AWG 30A CB - #10 AWG 40A CB - #8 AWG 50A CB - #6 AWG</p> <p>INCREASE SIZE OF CONDUCTOR FOR DISTANCE AS SHOWN BELOW IN 20A BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE.</p> <p>20A BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE:</p> <table border="1"><tr><td>CONDUCTOR SIZE (AWG)</td><td>#12</td><td>#10</td><td>#8</td><td>#6</td><td>#4</td></tr><tr><td>MAXIMUM BRANCH CIRCUIT LENGTH AT 120V (FEET)</td><td>90</td><td>140</td><td>225</td><td>355</td><td>565</td></tr><tr><td>MAXIMUM BRANCH CIRCUIT LENGTH AT 277V (FEET)</td><td>205</td><td>325</td><td>520</td><td>825</td><td>1310</td></tr></table> <p>NOTES:</p> <ol style="list-style-type: none">INCREASE ALL BRANCH CIRCUIT CONDUCTORS AS INDICATED BASED ON LENGTH OF CIRCUIT, INCLUDING EQUIPMENT GROUNDING CONDUCTOR.TRANSITION FROM LARGER CONDUCTOR SIZE TO #12 AWG FOR FINAL TERMINATION TO OUTLET DEVICE. PROVIDE JUNCTION BOX WITHIN 10' OF OUTLET AND EXTEND #12 AWG CONDUCTORS TO OUTLET.LENGTHS ARE FROM OVERCURRENT PROTECTIVE DEVICE, ALONG CIRCUIT ROUTING, TO CENTER OF EQUIPMENT LOAD.SCHEDULE ASSUMES 12A LOAD, FOR LOADS HIGHER THAN 12A, INCREASE CONDUCTOR SIZE.	CONDUCTOR SIZE (AWG)	#12	#10	#8	#6	#4	MAXIMUM BRANCH CIRCUIT LENGTH AT 120V (FEET)	90	140	225	355	565	MAXIMUM BRANCH CIRCUIT LENGTH AT 277V (FEET)	205	325	520	825	1310	<p>===== LADDER STYLE CABLE TRAY, HUNG ABOVE CEILING OR AS NOTED</p> <p>===== WIRE BASKET, HUNG ABOVE CEILING OR AS NOTED</p> <p>→ CONDUIT TURNED UP</p> <p>→ CONDUIT TURNED DOWN</p> <p>→ CONDUIT STUBBED AND BUSHED INTO ACCESSIBLE CEILING CAVITY</p> <p>===== SINGLE CHANNEL SURFACE RACEWAY, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED</p> <p>===== DUAL CHANNEL SURFACE RACEWAY, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED</p> <p>===== TRIPLE CHANNEL SURFACE RACEWAY, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED</p> <p>===== SURFACE RACEWAY ROUTED DOWN FROM CEILING TO HORIZONTAL</p> <p>===== SURFACE RACEWAY ROUTED UP FROM FLOOR TO HORIZONTAL</p> <p>===== SURFACE RACEWAY ENDPIECE</p> <p>===== SURFACE RACEWAY COUPLING</p> <p>☑ DATA/POWER INDOOR SERVICE POLE</p> <p>[PP] POWER ASSIST PUSH PLATE BACKBOX- MOUNTED 36" AFF</p> <p>[PPI] POWER ASSIST PUSH PLATE BACKBOX- MULLION MOUNTED 36" AFF</p> <p>[E] DEVICE BOX WITH BLANK COVERPLATE, HEIGHT AS INDICATED</p> <p>[E] DEVICE BOX WITH BLANK COVERPLATE, INSTALLED IN CEILING</p> <p>[J] JUNCTION BOX, HEIGHT AS INDICATED</p> <p>[J] JUNCTION BOX, INSTALLED IN CEILING</p> <p>[PB] PULL BOX</p> <p>≡ SYSTEMS CABINET, SURFACE OR FLUSH AS SHOWN, TOP OF TRIM 74" AFF</p> <p>===== FEEDER BUSWAY HORIZONTAL RUN</p> <p>===== PLUG-IN BUSWAY HORIZONTAL RUN</p> <p>[CBP] BUSWAY CIRCUIT BREAKER PLUG</p> <p>[CBP] BUSWAY COMBINATION DUPLEX RECEPTACLE PLUG</p> <p>[MSB1] MULTISERVICE BOX, # INDICATES DESIGNATION, SEE MULTISERVICE BOX SCHEDULE</p> <p>ELECTRICAL EQUIPMENT</p> <p>□ DISCONNECT SWITCH, TYPE PER EQUIPMENT CONNECTION SCHEDULE, SURFACE MOUNTED 48" AFF</p> <p>□ FUSED DISCONNECT SWITCH, SURFACE MOUNTED 48" AFF</p> <p>[CB] SEPARATELY ENCLOSED CIRCUIT BREAKER, SURFACE MOUNTED 44" AFF</p> <p>↔ FUSE (ONE-LINE NOTATION)</p> <p>XXXX-3P CIRCUIT BREAKER (ONE-LINE NOTATION)</p> <p>XXXX-3P LOW VOLTAGE DRAWOUT POWER CIRCUIT BREAKER (ONE-LINE NOTATION)</p> <p>XXXXA-3P MEDIUM VOLTAGE DRAWOUT POWER CIRCUIT BREAKER (ONE-LINE NOTATION)</p> <p>LOW VOLTAGE INTERRUPTER SWITCH (ONE-LINE NOTATION)</p> <p>MEDIUM VOLTAGE INTERRUPTER SWITCH (ONE-LINE NOTATION)</p> <p>TRANSFER SWITCH (ONE-LINE NOTATION)</p> <p>ISOLATION BYPASS TRANSFER SWITCH (ONE-LINE NOTATION)</p> <p>CLOSED TRANSITION TRANSFER SWITCH (ONE-LINE NOTATION)</p> <p>FRACTIONAL HORSEPOWER MOTOR CONTROLLER, RECESSED 44" AFF OR ABOVE CEILING (MANUAL THERMAL SWITCH)</p> <p>COMBINATION MOTOR CONTROLLER/DISCONNECT, PER EQUIPMENT CONNECTION SCHEDULE, 48" AFF</p> <p>MOTOR CONTROLLER, PER EQUIPMENT CONNECTION SCHEDULE, 48" AFF</p> <p>VSD VARIABLE SPEED DRIVE/VARIABLE FREQUENCY DRIVE</p> <p>T TRANSFORMER (PLAN NOTATION)</p> <p>TRANSFORMER (ONE-LINE NOTATION)</p> <p>3-PHASE, 3-WIRE DELTA CONNECTION</p> <p>3-PHASE, 4-WIRE WYE CONNECTION</p> <p>3-PHASE, NEUTRAL UNGROUNDED WYE CONNECTION</p> <p>XXXXA-3P ENGINE-GENERATOR SET (ONE-LINE NOTATION)</p> <p>POTENTIAL TRANSFORMER (ONE-LINE NOTATION)</p> <p>CURRENT TRANSFORMER (ONE-LINE NOTATION)</p> <p>AMMETER (ONE-LINE NOTATION)</p> <p>AMMETER SWITCH (ONE-LINE NOTATION)</p> <p>VOLTMETER (ONE-LINE NOTATION)</p> <p>VOLTMETER SWITCH (ONE-LINE NOTATION)</p> <p>DIGITAL METERING MONITOR (ONE-LINE NOTATION)</p> <p>METER CABINET/SOCKET (ONE-LINE & PLAN NOTATION)</p> <p>PROTECTIVE RELAY (*INDICATES ANSI FUNCTION, NUMBER INDICATES QUANTITY) (ONE-LINE NOTATION)</p>
CONDUCTOR SIZE (AWG)	#12	#10	#8	#6	#4														
MAXIMUM BRANCH CIRCUIT LENGTH AT 120V (FEET)	90	140	225	355	565														
MAXIMUM BRANCH CIRCUIT LENGTH AT 277V (FEET)	205	325	520	825	1310														

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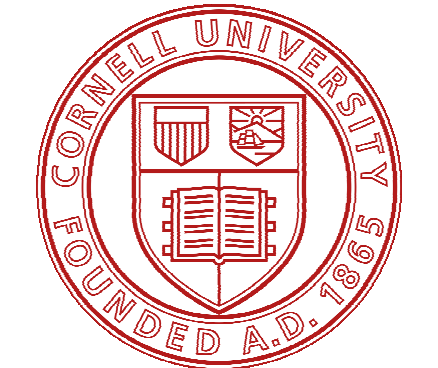


CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

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**EAST CAMPUS
RESEARCH FACILITY
TRANSGENIC MOUSE
CORE RELOCATION**
EAST CAMPUS RESEARCH FACILITY

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Revisions

PROJECT NUMBER:	2232366
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DRAWN BY: JMG

REVIEWED BY: RDH

ISSUED FOR: BID

DATE: 03/18/24

DRAWING NAME:

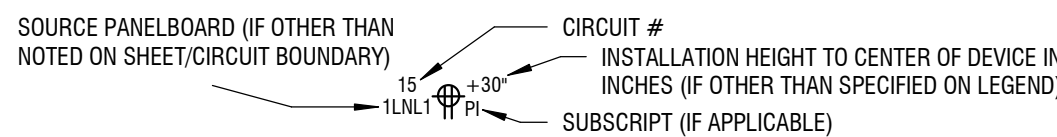
DRAWING NUMBER:

ELECTRICAL NOTES, SYMBOL LEGEND, & ABBREVIATIONS

ELECTRICAL LEGEND

ELECTRICAL DEVICES

GENERAL ELECTRICAL DEVICE NOTATION:



- NEMA 5-20R SIMPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R SIMPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R DUPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R GFCI DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R QUADPLEX (DOUBLE DUPLEX) RECEPTACLE, 18" AFF
- NEMA 5-20R QUADPLEX (DOUBLE DUPLEX) RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R GFCI QUADPLEX (GFCI REC W/ DUPLEX ON LOAD SIDE UNDER COMMON COVERPLATE) RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) SIMPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) SIMPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) DUPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) GFCI DUPLEX RECEPTACLE, 18" AFF
- NEMA CONFIGURATION TO MATCH INDICATED EQUIPMENT OR AS CALLED OUT, 18" AFF
- EMERGENCY POWER OFF STATION, RED MUSHROOM PUSHBUTTON STYLE, KEY-RELEASE TYPE, 54" AFF
- MULTIOUTLET PLUGSTRIP, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED
- START/STOP PUSHBUTTONS, STAINLESS STEEL NEMA 4X BOX WITH NEMA 4X PUSHBUTTONS, 54" AFF
- SURGE PROTECTION DEVICE, TOP OF ENCLOSURE 74" AFF

LIGHTING CONTROL DEVICES

NOTE: LIGHTING CONTROL DEVICES SHOW FUNCTIONAL REQUIREMENTS, NOT ALL DEVICES NEEDED FOR A FULLY FUNCTIONING SYSTEM. DEPENDING ON CONFIGURATION AND MANUFACTURER, DEVICES SUCH AS POWER PACKS, RELAYS, SINGLE/DOUBLE/TRIPLE OUTPUT ROOM CONTROLLERS MAY BE NECESSARY. REFER TO DETAILS & SPECIFICATIONS.

- SINGLE POLE TOGGLE SWITCH, 44" AFF
- 2-POLE TOGGLE SWITCH, 44" AFF
- 3-WAY TOGGLE SWITCH, 44" AFF
- 4-WAY TOGGLE SWITCH, 44" AFF
- MOMENTARY CONTACT SWITCH, 44" AFF
- 2 BUTTON SWITCH, SINGLE OR MULTIPLE LOCATION FUNCTIONALITY AS SHOWN LOW VOLTAGE DIGITAL NETWORK TYPE, 44" AFF
- DIMMING SWITCH, SINGLE OR MULTIPLE LOCATION FUNCTIONALITY AS SHOWN, [LOW VOLTAGE DIGITAL NETWORK TYPE], 44" AFF
- 4 BUTTON STEP DIMMER SWITCH, SINGLE OR MULTIPLE LOCATION FUNCTIONALITY AS SHOWN, LOW VOLTAGE DIGITAL NETWORK TYPE, 44" AFF
- DIGITAL ELECTRONIC INTERVAL TIMER, WALL-BOX STYLE, 44" AFF
- DIGITAL ELECTRONIC PROGRAMMABLE TIME SWITCH, WALL-BOX STYLE, 44" AFF
- OCCUPANCY SENSOR SWITCH, DUAL TECHNOLOGY [PIR / ULTRASONIC TECHNOLOGY], SINGLE POLE, WALL-BOX STYLE, 44" AFF
- OCCUPANCY SENSOR SWITCH, DUAL TECHNOLOGY [PIR / ULTRASONIC TECHNOLOGY], DOUBLE POLE, WALL-BOX STYLE, 44" AFF
- VACANCY SENSOR SWITCH, DUAL TECHNOLOGY [PIR / ULTRASONIC TECHNOLOGY], SINGLE POLE, WALL-BOX STYLE, 44" AFF
- VACANCY SENSOR SWITCH, DUAL TECHNOLOGY [PIR / ULTRASONIC TECHNOLOGY], DOUBLE POLE, WALL-BOX STYLE, 44" AFF
- OCCUPANCY SENSOR, [DIGITAL ADDRESSABLE TYPE,] LOW VOLTAGE, DUAL TECHNOLOGY [PIR / ULTRASONIC TECHNOLOGY], WIDE VIEW, CEILING MOUNTED
- OCCUPANCY SENSOR, [DIGITAL ADDRESSABLE TYPE,] LOW VOLTAGE, DUAL TECHNOLOGY [PIR / ULTRASONIC TECHNOLOGY], WIDE VIEW, WALL MOUNTED 90" AFF
- VACANCY SENSOR, [DIGITAL ADDRESSABLE TYPE,] LOW VOLTAGE, DUAL TECHNOLOGY [PIR / ULTRASONIC TECHNOLOGY], WIDE VIEW, CEILING MOUNTED
- VACANCY SENSOR, [DIGITAL ADDRESSABLE TYPE,] LOW VOLTAGE, DUAL TECHNOLOGY [PIR / ULTRASONIC TECHNOLOGY], WIDE VIEW, WALL MOUNTED 90" AFF
- DAYLIGHT SENSING DEVICE (ON/OFF CONTROL), [DIGITAL ADDRESSABLE TYPE,] CEILING MOUNTED
- DAYLIGHT SENSING DEVICE (ON/OFF CONTROL), [DIGITAL ADDRESSABLE TYPE,] WALL MOUNTED 90" AFF
- DAYLIGHT HARVESTING DEVICE (DIMMING CONTROL), [DIGITAL ADDRESSABLE TYPE,] CEILING MOUNTED
- DAYLIGHT HARVESTING DEVICE (DIMMING CONTROL), [DIGITAL ADDRESSABLE TYPE,] WALL MOUNTED 90" AFF
- PHOTOCELL DEVICE, LINE VOLTAGE, 12" ABOVE ROOF, AIMED NORTH
- LIGHTING TRANSFER DEVICE / UL924 RELAY, ASSOCIATED LIGHT(S) CONTROLLED WITH NORMAL BRANCH POWER SWITCHING AND FORCED TO 'ON' WITH EMERGENCY BRANCH POWER AT FULL LIGHT OUTPUT. PROVIDE SWITCHED LEG NORMAL BRANCH, UNSWITCHED NORMAL BRANCH, AND UNSWITCHED EMERGENCY BRANCH CONNECTIONS TO DEVICE PER MANUFACTURERS RECOMMENDATIONS.
- LIGHTING CONTROL CABINET: LIGHTING CONTACTOR (LC), LIGHTING CONTROL CABINET (LCC), LIGHTING RELAY CABINET (LRC), GENERATOR TRANSFER DEVICE (GTD), OR TIME CLOCK (TC) AS NOTED ON DRAWINGS. FLUSH OR SURFACE AS SHOWN ON DRAWINGS

EQUIPMENT CONNECTIONS

- DIRECT CONNECTION FOR 120V EQUIPMENT CONNECTED TO NORMAL BRANCH
- SINGLE PHASE MOTOR/PUMP CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE
- THREE PHASE MOTOR/PUMP CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE
- SINGLE POINT EQUIPMENT CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE
- CONNECTION TO CONTROL PANEL (CONTROL PANEL BY OTHERS)
- DIRECT CONNECTION FOR 120V EQUIPMENT CONNECTED TO EMERGENCY BRANCH (NEC 700)
- DIRECT CONNECTION FOR 120V EQUIPMENT CONNECTED TO STANDBY BRANCH (NEC 701)

SECURITY DEVICES & ACCESS CONTROL

NOTE: CONTRACTOR TO PROVIDE BOX AND CONDUIT TO ABOVE CEILING, DEVICE AND WIRING BY OWNER

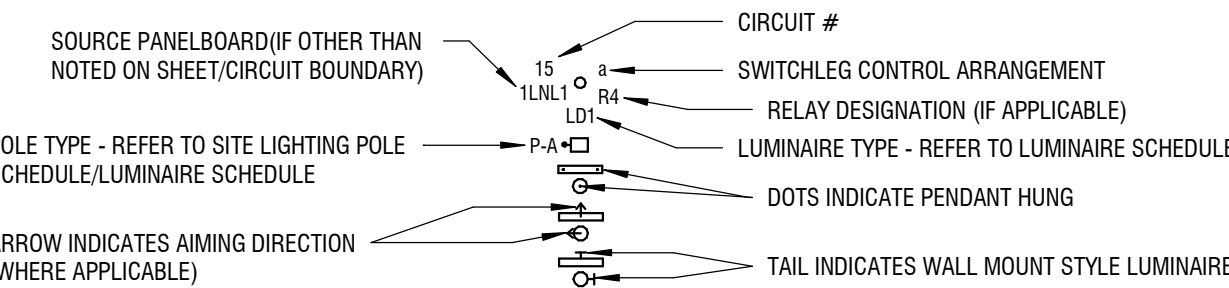
- CAMERA
- CAMERA POWER SUPPLY
- VIDEO SURVEILLANCE MONITOR AND BRACKET, 66" AFF
- PROXIMITY ACCESS CARD READER, 40" AFF, 4" FROM DOOR FRAME, DEVICE AND WIRING BY OWNER
- PROXIMITY ACCESS CARD READER WITH INTEGRAL CAMERA, 48" AFF, 4" FROM DOOR FRAME
- PROXIMITY ACCESS CARD READER WITH INTEGRAL CAMERA & INTERCOM, 48" AFF, 4" FROM DOOR FRAME
- KEYPAD, 40" AFF
- BIOMETRIC ACCESS CONTROL DEVICE, 40" AFF, 4" FROM DOOR FRAME
- RECESSED DOOR CONTACT SWITCH, COORDINATE WITH DOOR FRAME INSTALLER
- CONNECTION TO ALARM NOTIFICATION, SECURITY OVERRIDE DEVICE
- CONNECTION TO DOOR ELECTRIC STRIKE
- ELECTROMAGNETIC LOCK
- MOTION DETECTOR, INSTALL 6" BELOW CEILING OR 96" AFF MAX
- DELAYED EGRESS DEVICE

COMMUNICATION DEVICES

- DOORBELL PUSH BUTTON
- DOORBELL AUDIO ANNUCIATOR
- INTERCOM CALL STATION, 48" AFF, 6" FROM DOOR STRIKE
- INTERCOM MASTER STATION, 48" AFF
- COMBINATION CLOCK/SPEAKER, 96" AFF
- 12" DIAMETER SEMI-FLUSH CLOCK, 12" BELOW CEILING OR 108" AFF, WHICHEVER IS LOWER [12" DIAMETER SEMI-FLUSH BATTERY OPERATED CLOCK, 12" BELOW CEILING OR 108" AFF, WHICHEVER IS LOWER]
- INTERACTIVE WHITE BOARD
- INTERMEDIATE CROSS CONNECT
- MAIN CROSS CONNECT
- FLAT PANEL MONITOR WITH WALL MOUNT BRACKET
- LOUDSPEAKER, FLUSH CEILING MOUNTED
- LOUDSPEAKER, SURFACE WALL MOUNTED
- SPEAKER, FLUSH CEILING MOUNTED
- SPEAKER, FLUSH WALL MOUNTED
- MICROPHONE JACK, 18" AFF
- SPEAKER JACK, 18" AFF
- VOLUME CONTROL, 44" AFF
- RESCUE ASSISTANCE MASTER ANNUCIATOR PANEL
- RESCUE ASSISTANCE REMOTE ANNUCIATOR PANEL
- RESCUE ASSISTANCE REMOTE CALL STATION
- RESCUE ASSISTANCE CONTROL PANEL

LIGHTING

GENERAL LUMINAIRE NOTATION:



- PATTERN INDICATES LUMINAIRE CONNECTED TO UNSWITCHED LIGHTING CIRCUIT
- PATTERN INDICATES LUMINAIRE CONNECTED TO EMERGENCY BRANCH (NEC 700)
- PATTERN INDICATES LUMINAIRE CONNECTED TO STANDBY BRANCH (NEC 701)
- PATTERN INDICATES LUMINAIRE CONNECTED TO OPTIONAL BRANCH (NEC 702)
- PATTERN INDICATES LUMINAIRE CONNECTED TO STANDBY BRANCH (NEC 701) & NORMAL BRANCH (2 OR MORE BALLASTS/DRIVERS)
- GEOMETRIC SHAPE LUMINAIRE, RECESSED OR SURFACE MOUNTED PER LUMINAIRE SCHEDULE
- ILLUMINATED EXIT SIGN - SINGLE/DOUBLE FACE AS SHOWN - DIRECTION OF ARROWS AS INDICATED - CEILING, SURFACE WALL, OR PERPENDICULAR WALL AS SHOWN
- LIGHTING TRACK WITH TRACK MOUNTED LUMINAIRES
- SELF CONTAINED BATTERY LIGHTING UNIT
- REMOTE LIGHTING LAMP HEAD(S) - CONNECT TO REMOTE BATTERY PACK IN INTERIOR ACCESSIBLE CEILING SPACE
- LUMINAIRE(S) AND POLE ASSEMBLY
- SURFACE AT GRADE / FLUSH TO GRADE LUMINAIRE
- FLOOD OR MONO-POINT LUMINAIRE
- BOLLARD WITH INTEGRAL LUMINAIRE

DATA/TELECOMMUNICATION OUTLETS

NOTE: PROVIDE CONDUIT FROM BOX STUBBED INTO ACCESSIBLE CEILING SPACE IN NEAREST CORRIDOR. REFER TO DATA/TELECOMMUNICATION OUTLET SCHEDULE FOR ADDITIONAL DETAILS.

- DATA/TELECOMMUNICATIONS OUTLET, 18" AFF
- DATA/TELECOMMUNICATIONS OUTLET, 44" AFF OR 6" ABOVE COUNTER
- DATA/TELECOMMUNICATIONS OUTLET, 60" AFF
- DATA/TELECOMMUNICATIONS OUTLET, 84" AFF OR 1'-0" BELOW CEILING (WHICHEVER IS LOWER)
- DATA/TELECOMMUNICATIONS OUTLET INSTALLED IN FLOORBOX / DEVICE, WITH CONDUIT ROUGH-IN IN SLAB TO ACCESSIBLE CEILING.
- DATA/TELECOMMUNICATIONS OUTLET, INSTALLED IN FURNITURE RACEWAY
- DATA/TELECOMMUNICATIONS OUTLET, INSTALLED ABOVE CEILING
- DATA/TELECOMMUNICATIONS OUTLET, INSTALLED FLUSH IN CEILING

FIRE ALARM, GAS DETECTION, & MASS NOTIFICATION DEVICES

- HEAT DETECTOR, COMBINATION RATE OF RISE/FIXED 135°F, CEILING MOUNT (R INDICATES RATE OF RISE TEMPERATURE SENSOR, F INDICATES FIXED TEMPERATURE SENSOR)
- SMOKE DETECTOR, CEILING MOUNTED
- SMOKE DETECTOR, WALL MOUNTED
- SMOKE DETECTOR, INSTALLED IN DUCTWORK - MECHANICAL UNIT INDICATED
- SMOKE DETECTOR, PROJECTED BEAM TYPE, TRANSMITTER, HEIGHT AS NOTED
- SMOKE DETECTOR, PROJECTED BEAM TYPE, RECEIVER, HEIGHT AS NOTED
- GAS DETECTOR, CEILING MOUNTED (CO = CARBON MONOXIDE, NG = NATURAL GAS)
- GAS DETECTOR, WALL MOUNTED (CO = CARBON MONOXIDE 60" AFF, NG = NATURAL GAS 18" BELOW CEILING)
- MASS NOTIFICATION HORN/STROBE[EMERGENCY VOICE/ALARM SPEAKER & STROBE], 90dB, 75cd STROBE INTENSITY UNLESS OTHERWISE NOTED, WALL MOUNTED 18" BELOW CEILING
 - SA = SECURITY ALERT; WHITE HOUSING, BLUE LENS, SEC ALERT LABEL IN RED.
 - MN = MASS NOTIFICATION ALERT; WHITE HOUSING, AMBER LENS, 'ALERT' LABEL IN RED.
 - CO = CARBON MONOXIDE; WHITE HOUSING, RED LENS, 'CO ALARM' LABELING
 - NG = NATURAL GAS; WHITE HOUSING, GREEN LENS, 'NG ALARM' LABELING
- MASS NOTIFICATION STROBE, 75cd STROBE INTENSITY UNLESS OTHERWISE NOTED, WALL MOUNTED 18" BELOW CEILING
 - SA = SECURITY ALERT; WHITE HOUSING, BLUE LENS, SEC ALERT LABEL IN RED.
 - MN = MASS NOTIFICATION ALERT; WHITE HOUSING, AMBER LENS, 'ALERT' LABEL IN RED.
 - CO = CARBON MONOXIDE; WHITE HOUSING, RED LENS, 'CO ALARM' LABELING
 - NG = NATURAL GAS; WHITE HOUSING, GREEN LENS, 'NG ALARM' LABELING
- FIRE ALARM HORN [EMERGENCY VOICE/ALARM LOUDSPEAKER], 90 dB, WALL MOUNTED 18" BELOW CEILING
- FIRE ALARM HORN, 90 dB, CEILING MOUNTED
- FIRE ALARM EMERGENCY VOICE/ALARM SPEAKER, FLUSH CEILING MOUNTED
- FIRE ALARM EMERGENCY VOICE/ALARM SPEAKER, FLUSH WALL MOUNTED
- FIRE ALARM STROBE LIGHT, WALL MOUNTED, MIN 80" MAX 96" AFF (# INDICATES CANDELA RATING)
- FIRE ALARM STROBE LIGHT, CEILING MOUNTED (# INDICATES CANDELA RATING)
- FIRE ALARM HORN/STROBE[EMERGENCY VOICE/ALARM SPEAKER & STROBE], 90 dB, WALL MOUNTED, MIN 80" MAX 96" AFF (# INDICATES CANDELA RATING)
- FIRE ALARM HORN/STROBE[EMERGENCY VOICE/ALARM SPEAKER & STROBE], 90 dB, CEILING MOUNTED (# INDICATES CANDELA RATING)
- FIRE ALARM MANUAL PULL STATION, 44" AFF UNLESS NOTED OTHERWISE
- FIRE ALARM CONNECTION TO SMOKE DAMPER, PROVIDE ADDRESSABLE RELAY
- DUCT SMOKE DETECTOR REMOTE TEST STATION WITH INDICATOR LIGHT, 44" AFF
- FIRE ALARM CONNECTION TO ELECTRO-MAGNETIC DOOR RELEASE (DOOR HOLDER)
- FAN SHUT DOWN RELAY
- FIRE ALARM ADDRESSABLE RELAY (FM INDICATES MONITOR POINT, FC INDICATES CONTROL POINT)
- WATER FLOW SWITCH FIRE ALARM CONNECTION
- PRESSURE SWITCH FIRE ALARM CONNECTION (FOR PRE-ACTION SYSTEM)
- SUPERVISORY TAMPER SWITCH FIRE ALARM CONNECTION
- FIRE ALARM BELL, 90" AFF
- FIRE ALARM BELL, CEILING MOUNTED
- SYSTEM CABINET: FIRE ALARM CONTROL PANEL (FACP), FIRE ALARM ANNUCIATOR PANEL (FAGP), FIRE ALARM GRAPHIC PANEL (FAGP), FIRE ALARM TERMINATION CABINET (FATC), NOTIFICATION APPLIANCE CIRCUIT PANEL (NIAC),
- ADDRESSABLE CONTROL MODULE
- FIRE ALARM ANNUCIATOR
- ADDRESSABLE MONITOR MODULE
- NOTIFICATION APPLIANCE CIRCUIT PANEL

CABINETS / RACKS

- OPEN FRAME DATA RACK - FLOOR MOUNTED (BOLD LINE INDICATES FRONT OF RACK, CABLE MANAGEMENT SPACE SHOWN)
- OPEN FRAME DATA RACK - WALL MOUNTED (BOLD LINE INDICATES FRONT OF RACK, CABLE MANAGEMENT SPACE SHOWN)
- ENCLOSED DATA CABINET - FLOOR MOUNTED (BOLD LINE INDICATES FRONT OF CABINET)
- ENCLOSED DATA CABINET - WALL MOUNTED (BOLD LINE INDICATES FRONT OF CABINET)
- AUDIOVISUAL SYSTEM ENCLOSED DATA CABINET - FLOOR MOUNTED (BOLD LINE INDICATES FRONT OF CABINET)

GROUNDING, BONDING, & LIGHTNING PROTECTION

- G- GROUND ELECTRODE CONDUCTOR
- GROUND ROD
- GROUND TEST STATION
- MECHANICAL CONNECTION
- GROUND CONNECTION (MOLDED FUSION WELD OR IRREVERSIBLE)
- EQUIPMENT ROOM GROUND TERMINAL BAR, 18" AFF
- TELECOMMUNICATIONS MAIN GROUNDING BUSBAR, 18" AFF
- TELECOMMUNICATIONS GROUNDING BUSBAR, 18" AFF
- GROUND
- AIR TERMINAL
- ROOF CONDUCTOR
- DOWN CONDUCTOR
- THRU ROOF

EQUIPMENT DESIGNATIONS

- BUILDING AREA
- LEVEL
- EQUIPMENT NAME
- SEQUENCE NUMBER

NUMBERS IN SEQUENCE - 1,2,3, ETC.

- ATSF AUTOMATIC TRANSFER SWITCH, FIRE PUMP
- ATSS AUTOMATIC TRANSFER SWITCH, LIFE SAFETY (NEC 517)
- ATSC AUTOMATIC TRANSFER SWITCH, CRITICAL (NEC 517)
- ATSE AUTOMATIC TRANSFER SWITCH, EQUIPMENT (NEC 517)
- ATSM AUTOMATIC TRANSFER SWITCH, MIXED EXISTING
- ATSE AUTOMATIC TRANSFER SWITCH, EMERGENCY (NEC 700)
- ATSS AUTOMATIC TRANSFER SWITCH, STANDBY (NEC 701)
- ATSO AUTOMATIC TRANSFER SWITCH, OPTIONAL (NEC 702)
- CB CIRCUIT BREAKER
- DS UNFUSED DISCONNECT SWITCH
- DAY DAY TANK
- FATC FIRE ALARM TERMINAL CABINET
- FDS FUSED DISCONNECT SWITCH
- GC GENERAL PURPOSE CONTACTOR
- IDRS INTEGRATED DATA CENTER RACK SYSTEM
- IEC INTERCOM EQUIPMENT CABINET
- IPC INTEGRATED POWER CENTER
- LC LIGHTING CONTACTOR
- LCC LIGHTING CONTROL CABINET
- LRC LIGHTING RELAY CABINET
- LVS LOW VOLTAGE POWER SWITCHGEAR
- MCCE MOTOR CONTROL CENTER, EQUIPMENT (NEC 517)
- MCON MOTOR CONTROL CENTER, NORMAL
- MCCO MOTOR CONTROL CENTER, OPTIONAL (NEC 702)
- MCCS MOTOR CONTROL CENTER, STANDBY (NEC 701)
- MMC MODULAR METER CENTER
- MS METER SOCKET
- MTSS MANUAL TRANSFER SWITCH, STANDBY (NEC 701)
- MTSO MANUAL TRANSFER SWITCH, OPTIONAL (NEC 702)
- MVR MEDIUM VOLTAGE REGULATOR
- MVS MEDIUM VOLTAGE SWITCHGEAR
- PBL PLUG-IN BUSWAY LIGHTING
- PPB PLUG-IN BUSWAY POWER
- PSS PRIMARY SUBSTATION
- PSWGR PARALLELING SWITCHGEAR
- RUPS ROTARY HYBRID UNINTERRUPTIBLE POWER SUPPLY
- SPD SURGE PROTECTIVE DEVICE
- SWBDN SWITCHBOARD, NORMAL
- SWBDS SWITCHBOARD, LIFE SAFETY (NEC 517)
- SWBDC SWITCHBOARD, CRITICAL (NEC 517)
- SWBDE SWITCHBOARD, EQUIPMENT (NEC 517)
- SWBDE SWITCHBOARD, EMERGENCY (NEC 700)
- SWBDS SWITCHBOARD, STANDBY (NEC 701)
- SWBDO SWITCHBOARD, OPTIONAL (NEC 702)
- SWGR SWITCHGEAR
- T TRANSFORMER
- TBTP TELECOMMUNICATION BACKBONE TERMINATION PANEL
- TDTP TELECOMMUNICATION DEVICE TERMINATION PANEL
- TMGR TELECOMMUNICATION MAIN GROUND BUS
- TMGB TELECOMMUNICATION ROOM GROUND BUS
- TC TIME CLOCK
- UPS UNINTERRUPTIBLE POWER SUPPLY
- USSHV UNIT SUBSTATION AT 480V/277 SECONDARY VOLTAGE
- USSLV UNIT SUBSTATION AT 208V/120 SECONDARY VOLTAGE
- VFD VARIABLE FREQUENCY DRIVE

- B BASEMENT LEVEL
- G GROUND LEVEL
- 1 LEVEL 01
- 2 LEVEL 02
- M MEZZANINE LEVEL

- A AREA A (PROJECT SPECIFIC)
- B AREA B
- C AREA C

NUMBERS IN SEQUENCE - 1,2,3, ETC.

PANELBOARDS

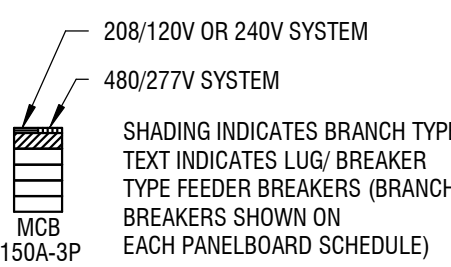
PANELBOARD DESIGNATIONS:

- BUILDING AREA
- LEVEL
- TYPE
- BRANCH
- VOLTAGE
- SEQUENCE NUMBER

NUMBERS IN SEQUENCE - 1,2,3, ETC.

- H 480/277V
- L 208V/120V OR 240V
- N NORMAL BRANCH
- G GENERATOR POWER
- S LIFE SAFETY BRANCH (NEC 517)
- C CRITICAL BRANCH (NEC 517)
- E EQUIPMENT BRANCH (NEC 517)
- M MIXED EXISTING BRANCH
- E EMERGENCY BRANCH (NEC 700)
- S STANDBY BRANCH (NEC 701)
- O OPTIONAL BRANCH (NEC 702)
- D DISTRIBUTION PANELBOARD
- B BRANCH CIRCUIT PANELBOARD
- I ISOLATED PANELBOARD
- K KITCHEN PANELBOARD
- L LIGHTING PANELBOARD
- R RECEPTACLE PANELBOARD
- B BASEMENT LEVEL
- G GROUND LEVEL
- 1 LEVEL 01
- 2 LEVEL 02
- M MEZZANINE LEVEL
- A AREA A (PROJECT SPECIFIC)
- B AREA B
- C AREA C

PANELBOARD - ONE-LINE NOTATION:



PANELBOARD - FLOOR PLAN NOTATION:

- DOOR STYLE (DESIGNATES VOLTAGE):
- 208/120V OR 240V SYSTEM
- 480/277V SYSTEM
- SIZE (DESIGNATES PANELBOARD TYPE):
- PANELBOARD
- DISTRIBUTION PANELBOARD
- FILL (DESIGNATES BRANCH TYPE):
- NORMAL BRANCH PANELBOARD
- NEC 700 EMERGENCY BRANCH PANELBOARD
- NEC 701 STANDBY BRANCH PANELBOARD
- NEC 702 OPTIONAL BRANCH PANELBOARD

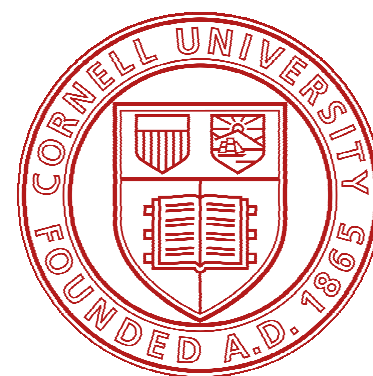
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CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

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Cornell University
Ithaca, NY



EAST CAMPUS RESEARCH FACILITY TRANSGENIC MOUSE CORE RELOCATION

EAST CAMPUS RESEARCH FACILITY

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2232366

DRAWN BY: JMG

REVIEWED BY: RDH

ISSUED FOR: BID

DATE: 03/18/24

DRAWING NAME:

ELECTRICAL NOTES, SYMBOL LEGEND, & ABBREVIATIONS CONTINUED

DRAWING NUMBER:

E002

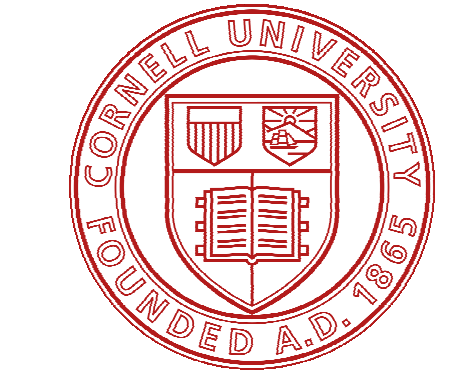


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**EAST CAMPUS
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TRANSGENIC MOUSE
CORE RELOCATION**
EAST CAMPUS RESEARCH FACILITY

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Revisions		

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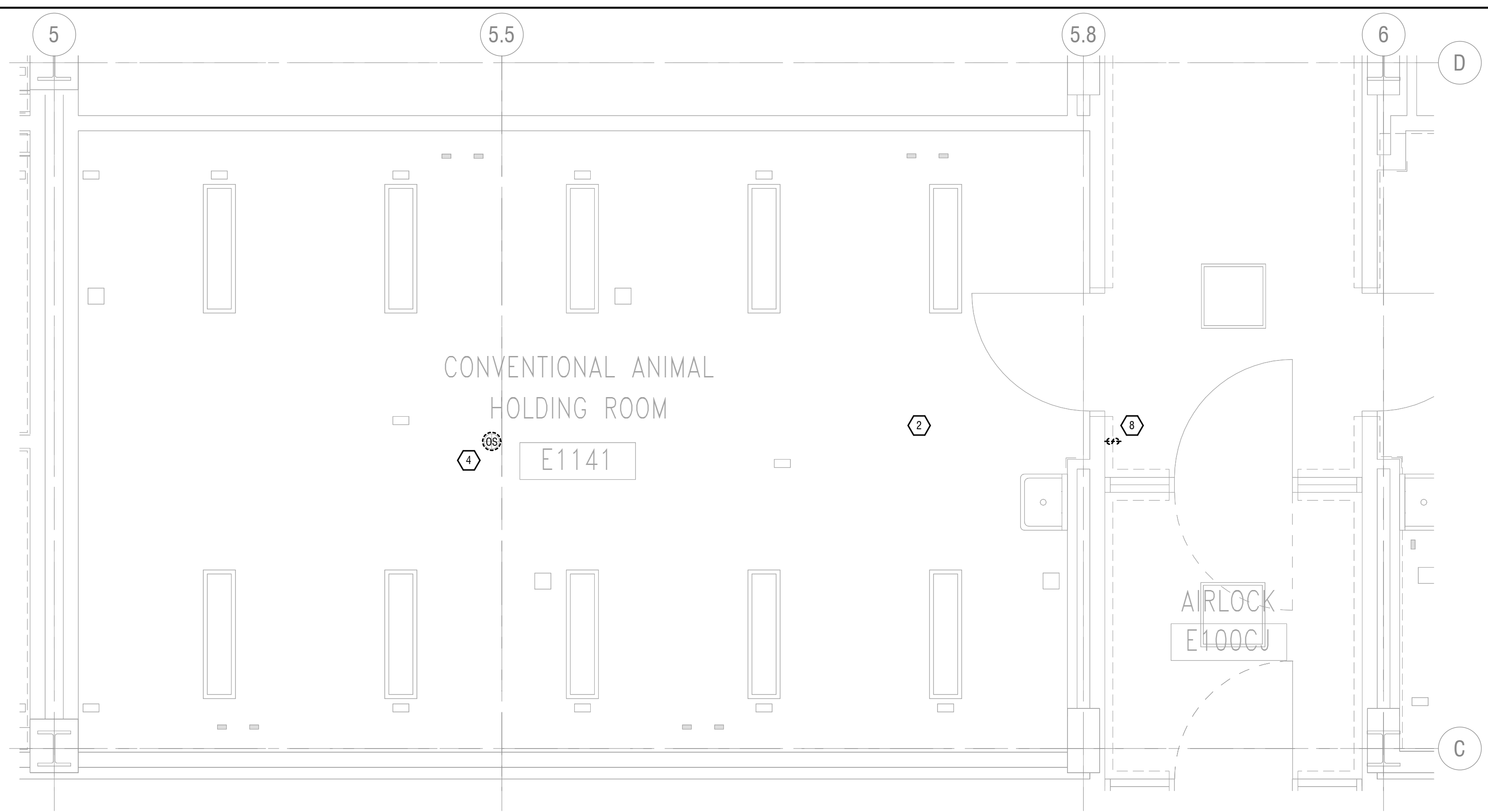
DATE: 03/18/24

DRAWING NAME:

**ENLARGED ELECTRICAL
REMOVAL PLAN**

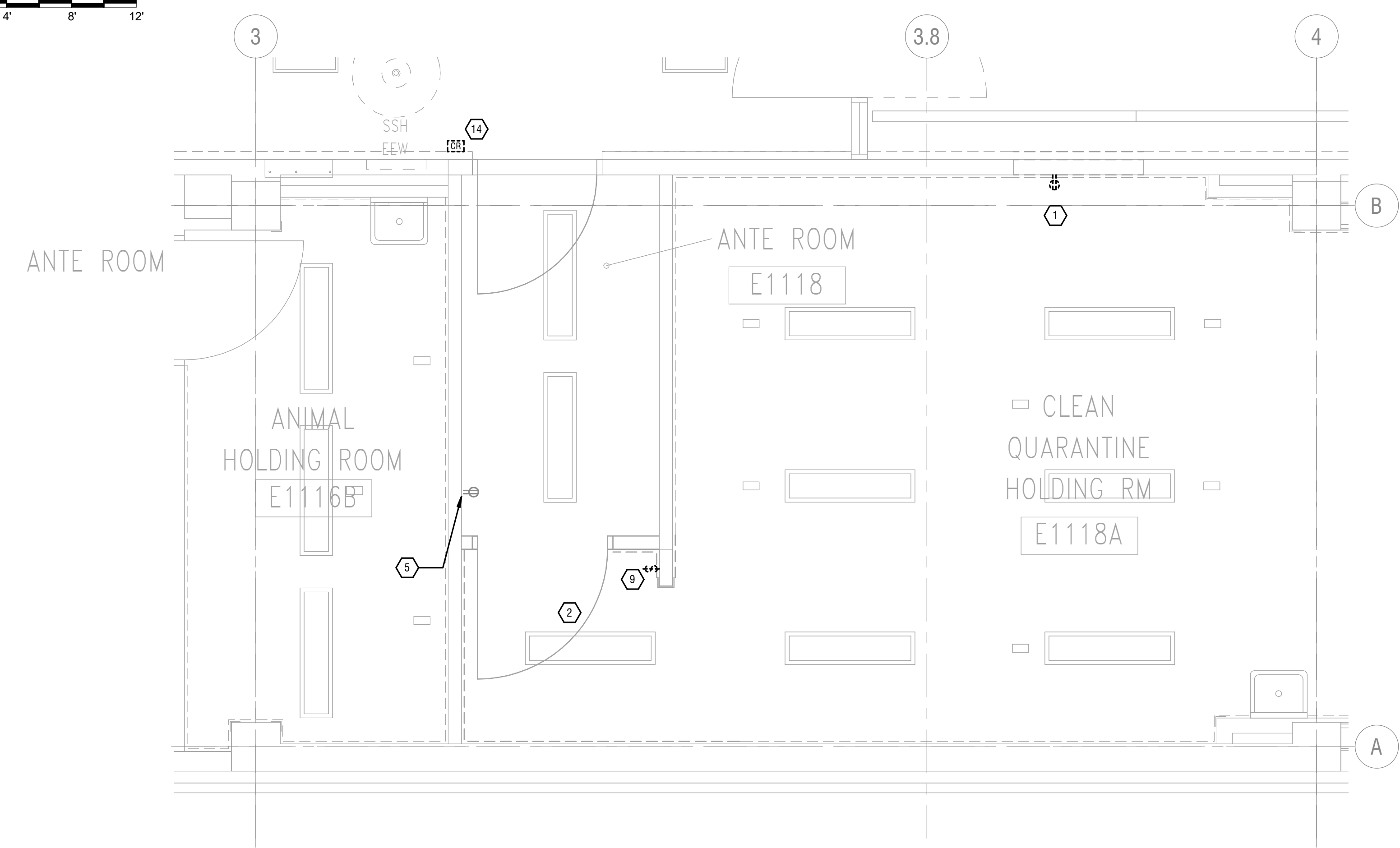
DRAWING NUMBER:

ED101



2 ROOM 1141 ELECTRICAL REMOVAL PLAN
ED101 3/8" = 1'-0"

- KEY NOTES:**
- 1 REMOVE WIRING BACK TO CORRIDOR - CAP IN JUNCTION BOX AND MARK AS SPARE
 - 2 PROVIDE TEMPORARY SUPPORT LIGHT FIXTURES TO FACILITATE CEILING RENOVATION
 - 3 PROVIDE MC CABLE INTO CORRIDOR IN EXISTING CABLE TRAY
 - 4 RELOCATE EXISTING SENSOR AND ADD AN SENSOR MATCHING THE EXISTING FOR NEW CONSTRUCTION. RE-WORK BRANCH CIRCUIT AS REQUIRED TO SEPERATE LIGHTING CONTROLS. WIRE NEW SENSORS BACK TO EXISTING LIGHTING CONTROLLER
 - 5 REMOVE EXISTING DEVICE AND COVER PLATE. SAVE WIRING AND BOX TO REINSTALL. PROVIDE EXTENSION BOX TO ACCOMMODATE THICKER WALL. REINSTALL DEVICE AND COVER PLATE
 - 6 RE-WORK SWITCHING TO EXISTING LIGHT FIXTURE TO CONNECT TO EXISTING SWITCH FOR E1118
 - 7 RE-WORK SWITCH FOR ROOM TO CONNECT TO NEW SWITCH FOR E1118A
 - 8 RE-WORK SWITCHING FOR NEW ROOMS TO CONNECT TO NEW SWITCHES
 - 9 REMOVE EXISTING SWITCH FOR ROOM E1118A. REMOVE BOX AND CONDUIT TO ABOVE CEILING. SAVE SWITCHING AND CIRCUITING TO EXTEND TO NEW LOCATION
 - 10 PROVIDE WALL MOUNTED BOX WITH PAINTED RACEWAY TO CEILING FOR CAMERA
 - 11 PROVIDE 3/4" CONDUIT FROM CARD READER TO STANLEY BOX IN ROOM
 - 12 REMOVE EXISTING LIGHT FIXTURES AS REQUIRED TO INSTALL NEW BANCH CIRCUIT WIRING TO ELECTRICAL CLOSET (E100UE) AND NETWORK WIRING TO BDF (E1160)
 - 13 PROVIDE CAT6A NETWORK WIRING TO BDF. CAMERA PROVIDED BY OWNER
 - 14 REMOVE EXISTING CARD READER AND WIRING
 - 15 PULL LOW VOLTAGE WIRING BACK TO BDF LOCATION. TERMINATIONS BY OWNER
 - 16 PROVIDE JUNCTION BOX FOR SECURITY HARDWARE TO DOOR LATCH AT MIDDLE HINGE OF DOOR
 - 17 PROVIDE WIRING BACK TO BDF ROOM FROM THIS LOCATION. ACCESS CONTROL DEVICE TO BE PROVIDED BY OWNER. REFER TO SPECIFICATIONS FOR CABLE TYPE. WIRE TO BE INSTALLED IN EXISTING CABLE TRAY OR J-HOOKS METHOD ABOVE CEILING WITH EXISTING BUILDING WIRING METHODS



1 ROOM E1118 & E1118A ELECETRICAL REMOVAL PLAN
ED101 3/8" = 1'-0"

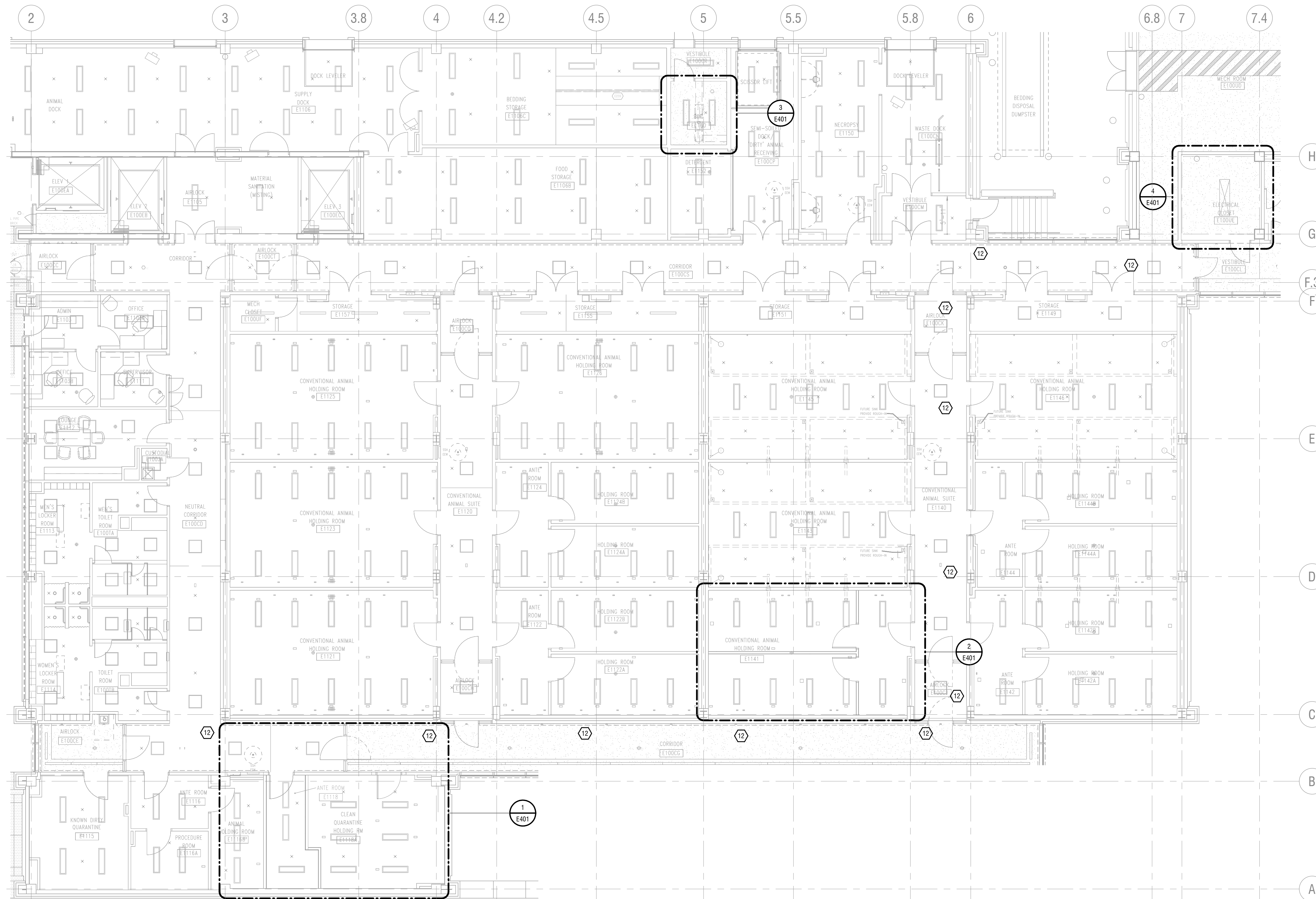
KEY NOTES:

- 1 REMOVE WIRING BACK TO CORRIDOR - CAP IN JUNCTION BOX AND MARK AS SPARE
- 2 PROVIDE TEMPORARY SUPPORT LIGHT FIXTURES TO FACILITATE CEILING RENOVATION
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- 15 PULL LOW VOLTAGE WIRING BACK TO BDF LOCATION. TERMINATIONS BY OWNER
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1 ELECTRICAL FIRST FLOOR PLAN
 E101 1/8" = 1'-0"
 0' 4' 8' 16'

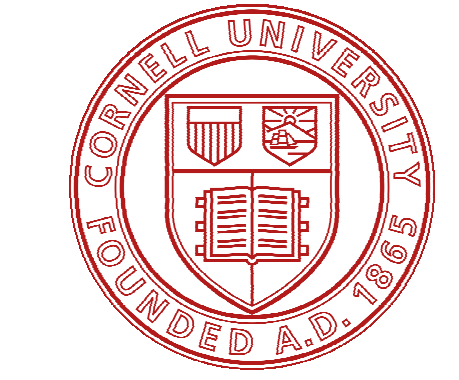


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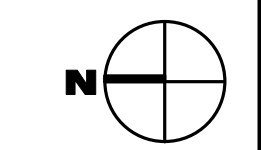


**EAST CAMPUS
 RESEARCH FACILITY
 TRANSGENIC MOUSE
 CORE RELOCATION**
 EAST CAMPUS RESEARCH FACILITY

NO.	DATE:	DESCRIPTION:
Revisions		
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DRAWN BY:		JMG
REVIEWED BY:		RDH
ISSUED FOR:		BID
DATE:		03/18/24
DRAWING NAME:		

**ELECTRICAL FIRST FLOOR
 PLAN**

DRAWING NUMBER:



E101

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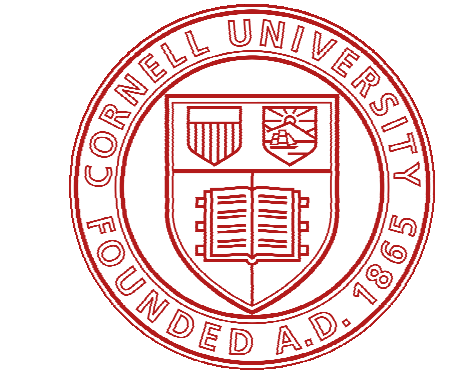


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LAND SURVEYING: 017976
GEOLOGICAL: 018750

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Cornell University
Ithaca, NY



**EAST CAMPUS
RESEARCH FACILITY
TRANSGENIC MOUSE
CORE RELOCATION**

EAST CAMPUS RESEARCH FACILITY

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2232366

DRAWN BY: JMG

REVIEWED BY: RDH

ISSUED FOR: BID

DATE: 03/18/24

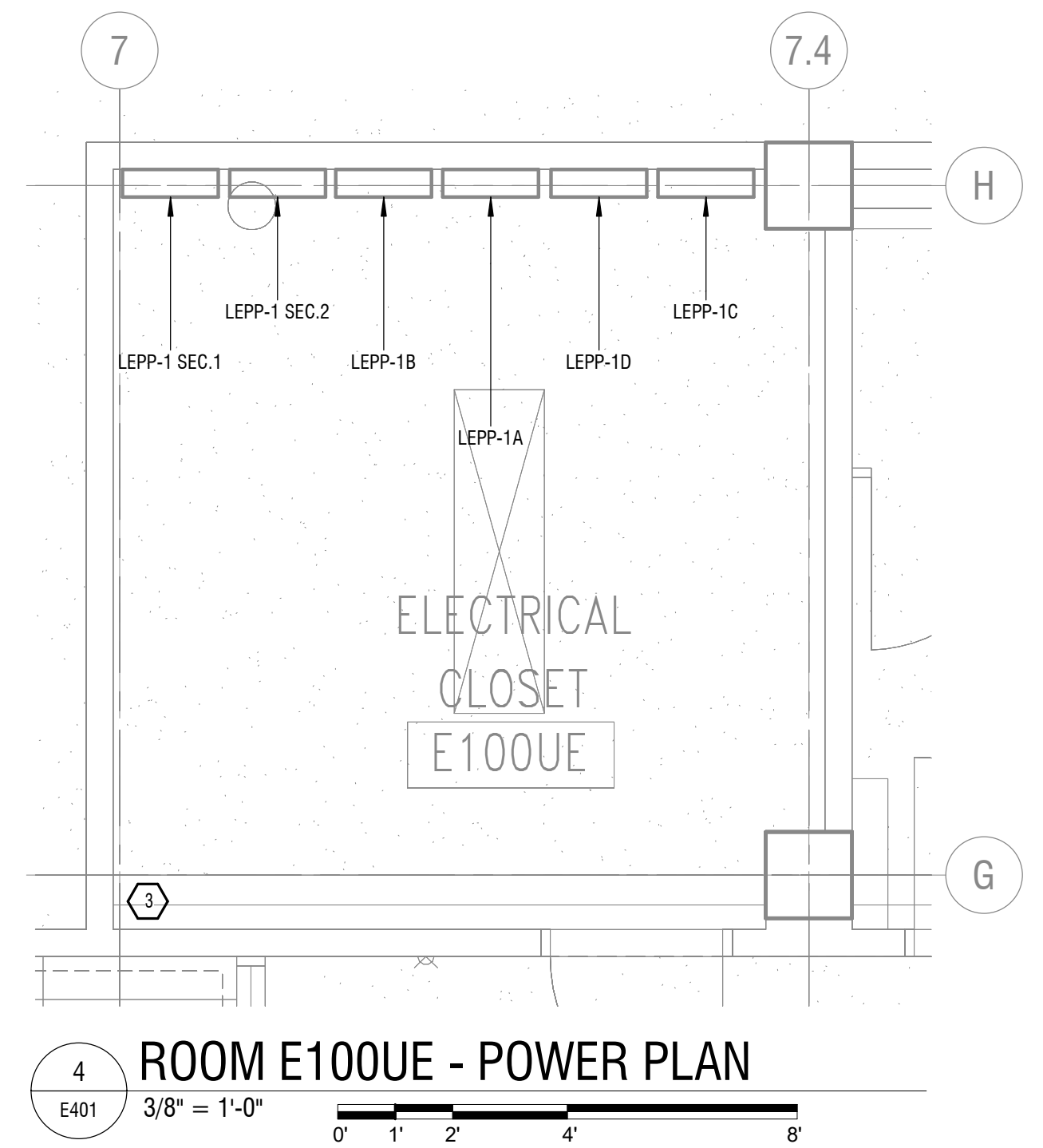
DRAWING NAME:

ELECTRICAL ENLARGED PLAN

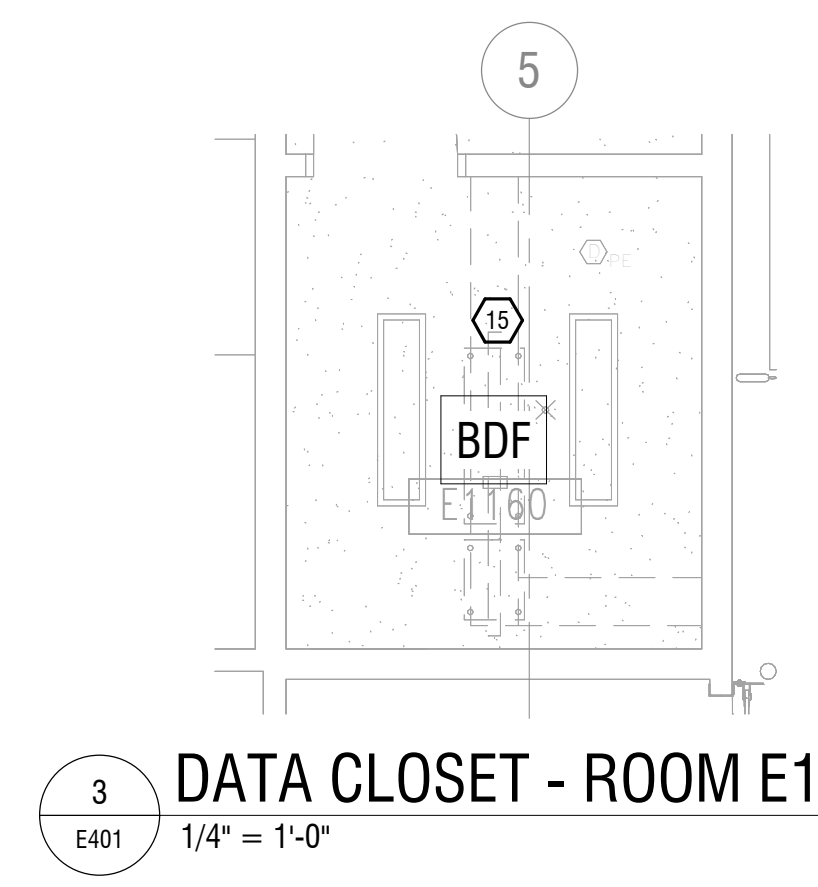
DRAWING NUMBER:

E401

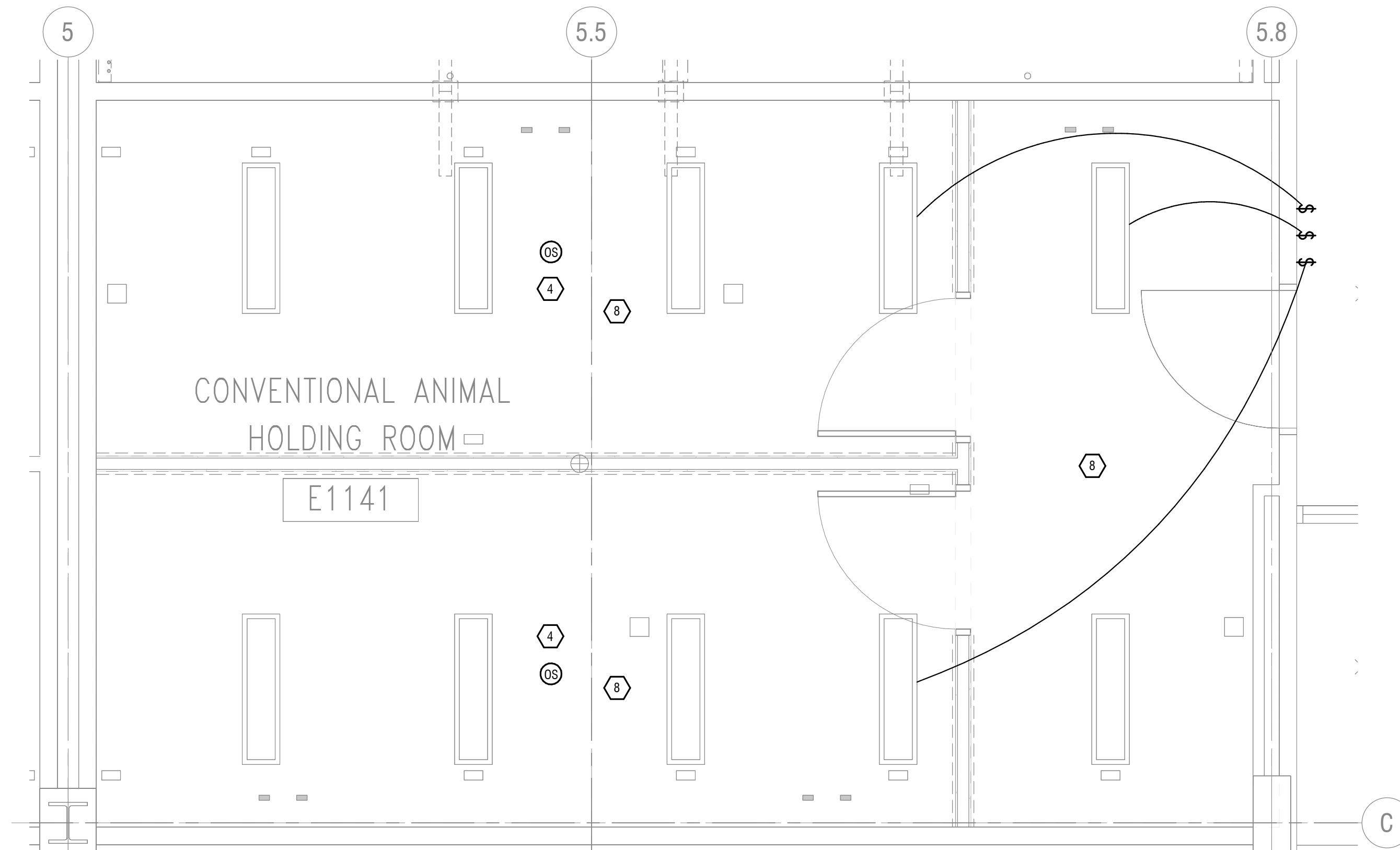
- KEY NOTES:**
- 1 REMOVE WIRING BACK TO CORRIDOR - CAP IN JUNCTION BOX AND MARK AS SPARE
 - 2 PROVIDE TEMPORARY SUPPORT LIGHT FIXTURES TO FACILITATE CEILING RENOVATION
 - 3 PROVIDE MC CABLE INTO CORRIDOR IN EXISTING CABLE TRAY
 - 4 RELOCATE EXISTING SENSOR AND ADD AN SENSOR MATCHING THE EXISTING FOR NEW CONSTRUCTION. RE-WORK BRANCH CIRCUIT AS REQUIRED TO SEPERATE LIGHTING CONTROLS. WIRE NEW SENSORS BACK TO EXISTING LIGHTING CONTROLLER
 - 5 REMOVE EXISTING DEVICE AND COVER PLATE. SAVE WIRING AND BOX TO REINSTALL. PROVIDE EXTENSION BOX TO ACCOMMODATE THICKER WALL. REINSTALL DEVICE AND COVER PLATE
 - 6 RE-WORK SWITCHING TO EXISTING LIGHT FIXTURE TO CONNECT TO EXISTING SWITCH FOR E1118
 - 7 RE-WORK SWITCH FOR ROOM TO CONNECT TO NEW SWITCH FOR E1118A
 - 8 RE-WORK SWITCHING FOR NEW ROOMS TO CONNECT TO NEW SWITCHES
 - 9 REMOVE EXISTING SWITCH FOR ROOM E1118A. REMOVE BOX AND CONDUIT TO ABOVE CEILING. SAVE SWITCHING AND CIRCUITING TO EXTEND TO NEW LOCATION
 - 10 PROVIDE WALL MOUNTED BOX WITH PAINTED RACEWAY TO CEILING FOR CAMERA
 - 11 PROVIDE 3/4" CONDUIT FROM CARD READER TO STANLEY BOX IN ROOM
 - 12 REMOVE EXISTING LIGHT FIXTURES AS REQUIRED TO INSTALL NEW BANCH CIRCUIT WIRING TO ELECTRICAL CLOSET (E100UE) AND NETWORK WIRING TO BDF (E1160)
 - 13 PROVIDE CAT6A NETWORK WIRING TO BDF. CAMERA PROVIDED BY OWNER
 - 14 REMOVE EXISTING CARD READER AND WIRING
 - 15 PULL LOW VOLTAGE WIRING BACK TO BDF LOCATION. TERMINATIONS BY OWNER
 - 16 PROVIDE JUNCTION BOX FOR SECURITY HARDWARE TO DOOR LATCH AT MIDDLE HINGE OF DOOR
 - 17 PROVIDE WIRING BACK TO BDF ROOM FROM THIS LOCATION. ACCESS CONTROL DEVICE TO BE PROVIDED BY OWNER. REFER TO SPECIFICATIONS FOR CABLE TYPE. WIRE TO BE INSTALLED IN EXISTING CABLE TRAY OR J-HOOKS METHOD ABOVE CEILING WITH EXISTING BUILDING WIRING METHODS



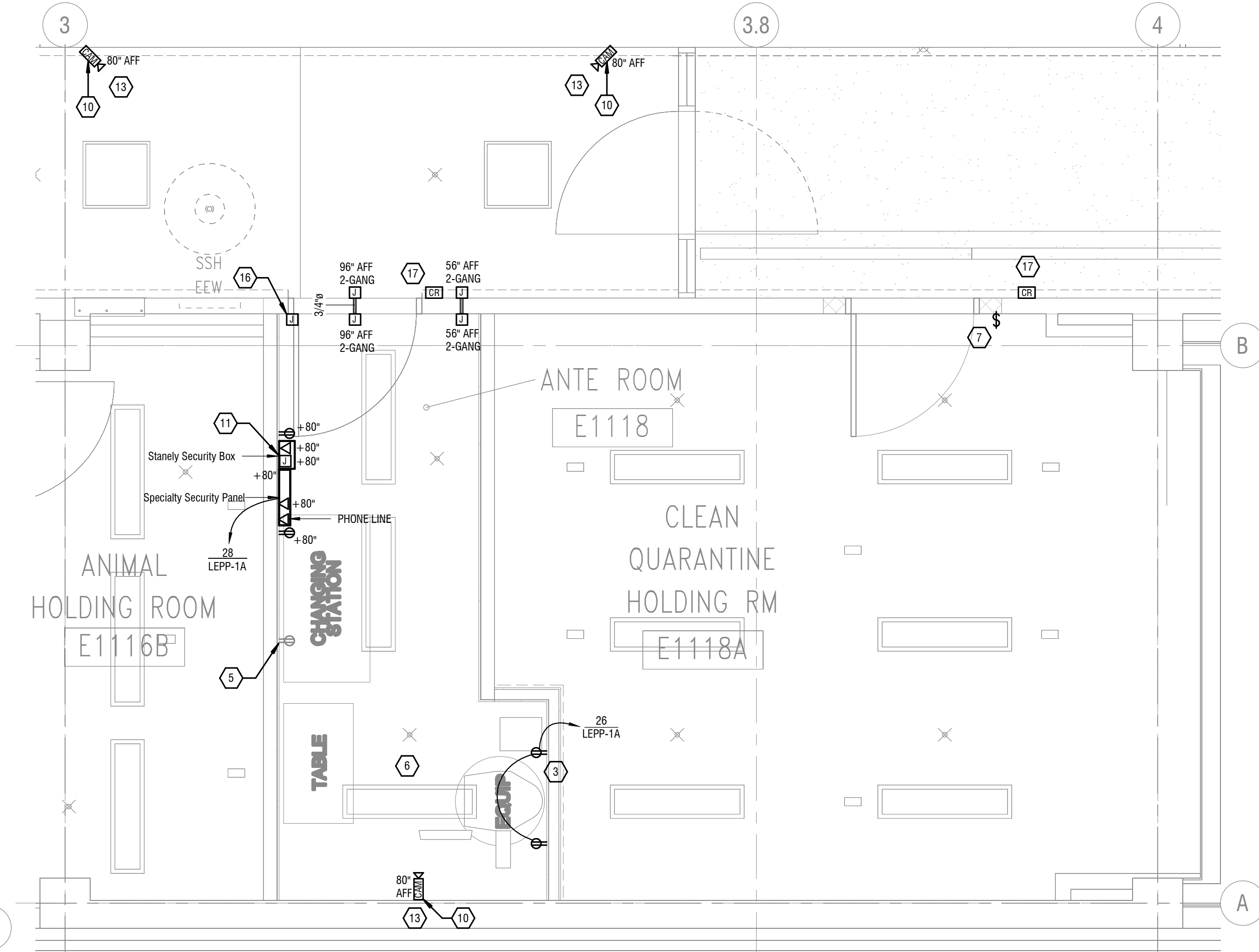
4 ROOM E100UE - POWER PLAN
E401 3/8" = 1'-0"



3 DATA CLOSET - ROOM E1160
E401 1/4" = 1'-0"



2 ROOM E1141 ELECTRICAL PLAN
E401 3/8" = 1'-0"



1 ROOMS E1118 & E1118A ELECTRICAL PLAN
E401 3/8" = 1'-0"

4/5/2024 3:11:07 PM

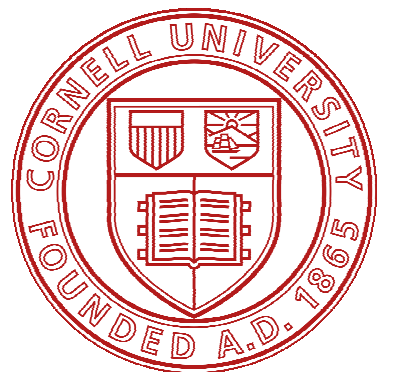


CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

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PROJECT NUMBER: 2232366

DRAWN BY: JMG

REVIEWED BY: RDH

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DATE: 03/18/24

DRAWING NAME:

ELECTRICAL SCHEDULES

DRAWING NUMBER:

E601

DESIGNATION: LEPP-1A											
LOCATION: E100UE				DESIGN BASE:				FULLY RATED AIC:			
FED FROM: BUSWAY A-E				DISTRIBUTION VOLTAGE: 208Y/120V				MAIN TYPE: MAIN LUG 250 AMPS			
SERVICE ENTRANCE LABEL:				# OF PHASES: 3				BUS RATING: 250 A			
OPTIONS:				# OF WIRES: 4				MCB TRIP: 250 A			
				MOUNTING: Surface				MODIFICATIONS:			
				ENCLOSURE TYPE: Type 1							
PANELBOARD SCHEDULE NOTATION:											
** PROVIDE GFCI TYPE BREAKER											
*** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.											
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER											
CKT	CIRCUIT DESCRIPTION	BKR	POLES	A	B	C	POLES	BKR	CIRCUIT DESCRIPTION	CKT	
1	Receptacle E1125	20 A	1	0	0			1	20 A	Receptacle E1125	2
3	Receptacle E1125	20 A	1		0	0		1	20 A	Receptacle E1123	4
5	Receptacle E1123	20 A	1			0	0	1	20 A	Receptacle E1123	6
7	Receptacle E1121	20 A	1	0	0			1	20 A	Receptacle E1121	8
9	Receptacle E1121	20 A	1		0	0		1	20 A	Receptacle E1126	10
11	Receptacle E1126	20 A	1			0	0	1	20 A	Receptacle E1124	12
13	Receptacle E1124	20 A	1	0	0			1	20 A	Receptacle E1122	14
15	Receptacle E1124	20 A	1		0	0		1	20 A	Receptacle E1122	16
17	Receptacle E1122	20 A	1			0	0	1	20 A	Receptacle Corridor E1120	18
19	Data Wireless Access E1120	20 A	1	0	0			1	20 A	Lighting Control System	20
21		20 A	1		0	0		1	20 A	3rd Floor Watt Stopper	22
23		20 A	1			0	0	1	20 A		24
25	2nd Floor LGS	20 A	1	0	360			1	20 A	Receptacle E1118	26
27	2nd Floor Watt Stopper	20 A	1		0	0		1	20 A	Stanely Security Panel Room E1118	28
29		20 A	1			0	0	1	20 A		30
31		20 A	1	0	0			1	20 A		32
33		20 A	1		0	0		1	20 A		34
35		20 A	1			0	0	1	20 A		36
37		20 A	1	0	0			1	20 A		38
39		20 A	1		0	0		1	20 A		40
41		20 A	1			0	0	1	20 A		42
TOTAL CONNECTED PHASE LOADS:				360 VA	0 VA	0 VA					
TOTAL CONNECTED PHASE CURRENTS:				3 A	0 A	0 A					
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS							
RECEP	360 VA	100.00%	360 VA	CONNECTED LOAD: 360 VA							
				ESTIMATED DEMAND LOAD: 360 VA							
				CONNECTED CURRENT: 1 A							
				ESTIMATED DEMAND CURRENT: 1 A							
				NON-CONCIDENT HEATING/COOLING: 0 A							
				ESTIMATED DEMAND - NC HEAT/COOL: 1 A							