STATE OF CONNECTICUT

GOVERNOR NED LAMONT

DEPARTMENT OF ADMINISTRATIVE SERVICES
MELODY A. CURREY
COMMISSIONER

WESTERN CONNECTICUT STATE UNIVERSITY
DR. JOHN B. CLARK
PRESIDENT

WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

PROJECT NO. BI-RD-299

AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET, SUITE 208
SOUTHINGTON, CT, 06489
860-621-8944

CONSULTING ENGINEERING SERVICES, INC.
811 MIDDLE STREET
MIDDLETOWN, CT, 06457
860-632-1682

CONSTRUCTION DOCUMENTS
07/25/18
REV. 01/21/19

D.C.S BUILDING NUMBER 07405

SITE PLAN

APPROVALS

DEPT. OF ADMINISTRATIVE SERVICES — DATE 1/30/19

AGENCY — DATE 1/24/19

ARCHITECTURAL ABBREVIATION LIST

ABBEV	ABBREVIATION(S)
ABV	ABOVE
ACMU	ACOUSTICAL C.M.U.
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ACP	VINYL LAMINATE
ACOUSTICAL	CEILING PANEL
ACU, A/C	AIR CONDITIONING UNIT
ADD	ADDITIONAL
A/E	ARCHTIECT/ENGINEER
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URE)(URAL)
ARGWB	ABUSE RESISTANT GYPSUM WALLBOARD
ASPH	ASPHALT
AUTO	AUTOMATIC
BD	BOARD
BIT	BITUMINOUS
BLDG	BUILDING
BLK, BLKG	BLOCK(ING)
BM	BENCH MARK
BO	BOTTOM OF
BOT	BOTTOM
BUR	BUILT UP ROOF
CAB	CABINET
CB	CATCH BASIN
CAC	COMMON ACCESS CARD
CBR	CHEMICAL/BIOLOGICAL/ RADIOLOGICAL
CIR	CIRCLE
CER	CERAMIC
CIP	CAST IN PLACE
CHEM	CHEMICAL
CJ	CONTROL / CONSTRUCTION JOINT
CL	CLOSET
℄	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUE(OUS)
CPT	CARPET
CT	CERAMIC TILE
DEMO	DEMOLISH, DEMOLITION
DET, DTL	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM/DIMS	DIMENSION(S)
DISP	DISPENSER
DN	DOWN
DS	DOWNSPOUT
DSC	DOWNSPOUT SCUPPER
DWG	DRAWING(S)
EA	EACH
EF	EXHAUST FAN
EJ, EXP JT	EXPANSION JOINT
ELEC	ELECTRIC(AL)
ELEV	ELEVATION(S)
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWC-H	ELECTRIC WATER COOLER-HANDICAP/ACCESSIBLE
EXIST	EXISIT(ING)
EXP	EXPOSED
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FFL	FINISH FLOOR LINE
FF	FINISH FLOOR
FH	FIRE HYDRANT
FIN	FINIISH(ED)
FIXT	FIXTURE(S)
FLUOR	FLUORESCENT
FURR	FURRING
FLEX	FLEXIBLE
FLR	FLOOR
FFE	FINISH FLOOR ELEVATION
FF&E	FURNITURE, FIXTURES & EQUIPMENT
FO	FACE OF
FT, FTG	FOOT(ING), FEET
GA	GAGE, GAUGE
GALV	GALVANIZED
GL	GLASS, GLAZE(D)(ING)
GB	GRAB BAR
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HDPE	HIGH DENSITY POLYETHYLENE
HDW	HARDWARE
HGT, HT	HEIGHT
HORZ	HORIZONTAL
H.P.	HIGH POINT
HR	HOUR
HVAC	HEATING, VENTILATION & AIR CONDITIONING
ID	INSIDE DIAMETER
INFO	INFORMATION
INFIL	INFILTRATION
INSUL	INSULATE(D)(ION)
INT	INTERIOR
IAW	IN ACCORDANCE WITH
INV	INVERT
IR	IMPACT RESISTANT
IRGWB	IMPACT RESISTANT GYPSUM WALLBOARD
JAN	JANITOR
JT	JOINT
LBL	LABEL
LAV	LAVATORY
LL	LIVE LOAD
LKR	LOCKER(S)
LLV	LONG LEG VERTICAL
MAINT	MAINTENANCE
MANUF, MFR	MANUFACTURE(R)(D)
MAT	MATERIAL(S)
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MET, MTL	METAL
MDO	MEDIUM DENSITY OVERLAY
MIN	MINIMUM, MINUTE
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MWP	METAL WALL PANEL
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO, #	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O.C.	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPER	OPERATOR
OPH	OPPOSITE HAND
OPP	OPPOSITE
OS	OVERFLOW SCUPPER
PEB	PRE-ENGINEERED BUILDING
PED	PEDESTAL
PEJ	PREFORMED EXPANSION JOINT
PL	PLATE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
POL	PETROLEUM, OIL & LUBRICATION
PP	PIPING PENETRATION
PRT	PORCELAIN TILE
PT	PRESSURE TREATED
PREFAB	PREFABRICATED
PREFIN	PRE-FINISHED
PTD	PAINT/PAINTED
RA	RETURN AIR
RAD	RADIUS
RD	ROOF DRAIN
REC	RECESS(ED)
REF	REFERENCE
REINF	REINFORCE(D)(ING)
REV	REVISED(D)(ION)
RES	RESILIENT
REQ, REQ'D	REQUIRE(D)
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
SAN	SANITARY
SCHED	SCHEDULE
SD	SOAP DISPENSER
SF	SQUARE FEET
SFM	SANITARY FORCE MAIN
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFIC(ATION)(S)
SQ	SQUARE
SS	STAINLESS STEEL
STD	STUD
STL	STEEL
STOR	STORAGE
STR, STRUCT	STRUCTURE(AL)
SUSP	SUSPENDED
SYM	SYMMETRY(ICAL)
SYS	SYSTEM
TAG, T&G	TONGUE AND GROOVE
TB	TOWEL BAR
TEL	TELEPHONE
THK	THICK(NESS)
T.O.	TOP OF
TOS	TOP OF STEEL
TPD	TOILET PAPER DISPENSER
TS	TUBE STEEL
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNF	UNFINISHED
UON	UNLESS OTHERWISE NOTED
V	VENT
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VMF	VEHICLE MAINTENANCE FACILITY
VWC	VINYL WALL COVERING
W/	WITH
WD	WOOD
WH, WHS	WAREHOUSE
WIN	WINDOW
W/O	WITHOUT
WPT	WORK POINT
WRGWB	WATER RESISTANT GYPSUM WALLBOARD
WWF	WELDED WIRE FABRIC

SYMBOLS LEGEND

- ELEVATION / BULLET
- DEMOLITION KEY NOTE TAG (1)
- NEW WORK KEY NOTE AND WALL / PARTITION TYPE IDENTIFICATION (A)
- DOOR IDENTIFICATION TAG (123)
- TOILET ACCESSORY IDENTIFICATION TAG (A)
- DETAIL TAG (A2 / A-503)
- SECTION AND INTERIOR ELEVATION TAG (B3 / A-201)
- REVISION TAG/ REVISION CLOUD (1)
- ROOM NAME / NUMBER IDENTIFICATION TAG (OFFICE 5)

DRAWING INDEX

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A1.03	THIRD FLOOR - NORTH PARTIAL PLAN
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A1.05	SECOND FLOOR - NORTH REFLECTED CEILING PLAN
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A4.07	SECOND FLOOR - WEST CENTER PARTIAL PLAN
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SHEET N0.	SHEET TITLE
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P1.02	PLUMBING SECOND FLOOR - SOUTH PARTIAL PLAN
P1.03	FIRE PROTECTION & PLUMBING PARTIAL THIRD FLOOR - NORTH PARTIAL PLAN
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MD1.02	MECHANICAL DEMO SECOND FLOOR - SOUTH PARTIAL PLAN
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MP1.01	MECHANICAL PIPING SECOND FLOOR - NORTH PARTIAL PLAN
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M3.02	MECHANICAL DETAILS
M3.03	MECHANICAL DETAILS
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EP1.05	ROOF - NORTH POWER PARTIAL PLAN
EP1.06	ROOF - SOUTH POWER PARTIAL PLAN
ES1.01	SECOND FLOOR - NORTH SECURITY PARTIAL PLAN
ES1.02	SECOND FLOOR - SOUTH SECURITY PARTIAL PLAN
ES1.03	THIRD FLOOR - NORTH SECURITY PARTIAL PLAN
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E2.01	ELECTRICAL ABBREVIATIONS, SYMBOLS & NOTES
E2.02	ELECTRICAL RISER DIAGRAM
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E3.01	ELECTRICAL DETAILS
E3.02	ELECTRICAL DETAILS
E3.03	ELECTRICAL PANELBOARD SCHEDULES
E3.04	ELECTRICAL PANELBOARD SCHEDULES

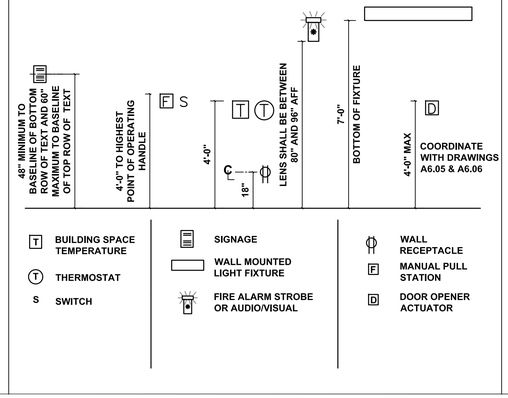
HATCH PATTERNS

- CONCRETE MASONRY UNIT
- CONCRETE
- BRICK
- METAL
- GRATING AND/OR RIGID INSULATION
- ROUGH WOOD
- FINISHED WOOD
- BATT INSULATION
- GYPSUM BOARD AND/OR GRAVEL SURFACE
- POROUS FILL AND/OR GRAVEL
- COMPACTED FILL

GENERAL NOTES

1. PERFORM CONSTRUCTION WORK PER DIVISION 1 REQUIREMENTS.
2. DO NOT SCALE OR MEASURE ANY DRAWING. REFER TO DIMENSIONS AND NOTES ON DRAWINGS TO LOCATE WALLS AND CONSTRUCTION ITEMS. VERIFY THE FIGURES AND DIMENSIONS SHOWN ON THE DRAWINGS BEFORE STARTING ANY LAYOUT OF THE WORK.
3. REPORT ANY ERRORS, INACCURACIES, MISSING DIMENSIONAL REQUIREMENTS, OR CONFLICTS TO THE ARCHITECT IMMEDIATELY AND IN WRITING BEFORE BEGINNING ANY WORK.
4. WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES, LAWS, AND STATUTES AS REQUIRED. STRICTLY ADHERE TO MANUFACTURERS' PRINTED INSTRUCTIONS.
5. REFER TO PLANS AND FLOOR/CEILING ASSEMBLIES FOR PARTITIONS REQUIRED TO HAVE FIRE RESISTANT RATINGS.
6. REFER TO FURNITURE/EQUIPMENT PLANS FOR EQUIPMENT, FURNITURE, AND FURNITURE ACCESSORY LOCATIONS. FURNITURE TO BE FURNISHED & INSTALLED BY OWNER UNLESS SPECIFIED OTHERWISE IN THE PROJECT MANUAL & IS NOT A PART OF THIS CONTRACT.
7. STAGING AREA PLAN, SEE SECTION 01 70 00 IN PROJECT MANUAL.
8. PROVIDE ALL NECESSARY BARRIERS AND STRUCTURES REQUIRED TO KEEP THE CONSTRUCTION AREA FREE FROM UNAUTHORIZED VISITORS.
9. VERIFY THE LOCATIONS OF ALL EXISTING CONSTRUCTION INCLUDING EXISTING UTILITIES, BUILDINGS, SITE IMPROVEMENTS, TREES, ETC. AT THE JOB SITE. NOTIFY THE ARCHITECT IMMEDIATELY FOR CLARIFICATION IF ANY EXISTING CONDITIONS CONFLICT WITH THE DESIGN INTENT SHOWN ON THESE DRAWINGS.
10. DISPOSE OF ALL UNWANTED MATERIALS AND OTHER DEBRIS OFF SITE AS REQUIRED IN A LEGAL MANNER.
11. VERIFY IN WRITING, AND RECEIVE WRITTEN AUTHORIZATION FROM THE ARCHITECT PRIOR TO COMMENCEMENT OF ANY CHANGES TO THE WORK.
12. DIMENSIONS SHOWN ON ARCHITECTURAL FLOOR PLANS AND ENLARGED PLAN DETAILS ARE TO FACE OF FINISH, FACE OF MASONRY, FACE OF CONCRETE, OR TO THE CENTERLINE OF COLUMN UNLESS NOTED OTHERWISE.
13. INSTALL ADDITIONAL NONCOMBUSTIBLE, CONCEALED, HORIZONTAL AND/OR VERTICAL BLOCKING AND STRAPPNG AS REQUIRED WITHIN STUD AND JOIST SPACES FOR THE SECURE ANCHORAGE OF ALL ITEMS TO BE MOUNTED ON FLOOR, WALL, AND CEILING SURFACES. COORDINATE THE REQUIRED BLOCKING WITH THE ACTUAL ITEMS SELECTED. REFER TO ARCHITECTURAL, MILLWORK, FURNITURE/EQUIIPMENT, M.E.P/F.P. DRAWINGS FOR ALL ITEMS TO BE WALL/CEILING/FLOOR MOUNTED.
14. CONTRACTOR TO COORDINATE WITH OWNER FOR FRAMED OPENINGS FOR ALL BUILT-IN ITEMS, INCLUDING EQUIPMENT AND FIXTURES, CASEWORK, AND ACCESSORIES, ETC. BASED ON THE ACTUAL ITEMS SELECTED BEFORE INSTALLATION.
15. SECTIONS, DETAILS, NOTES, DIMENSIONS, AND CONDITIONS ARE APPLICABLE AT OTHER LOCATIONS WHERE CONDITIONS AND DETAILS ARE SIMILAR BUT NOT SPECIFICALLY NOTED AS SUCH OR ARE NOT SHOWN.
16. BOTH GRAPHIC AND WRITTEN SCALES ARE SHOWN ON ARCHITECTURAL DRAWINGS. ORIGINAL DRAWINGS SIZE IS 24" x 36". IF THE TWO CONFLICT DUE TO REDUCED OR ENLARGED REPRODUCTIONS, THE GRAPHIC SCALE SHALL GOVERN.
17. WHERE DIFFERENT FLOOR TYPES MEET AND NO SADDLE IS INDICATED, LOCATE THE TRANSITION DIRECTLY BELOW THE CENTER OF THE DOOR.

MOUNTING LEGEND



drawing title: DRAWING INDEX, NOTES & LEGENDS

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18 5/23/18 7/25/18	CONSTRUCTION DOCUMENTS

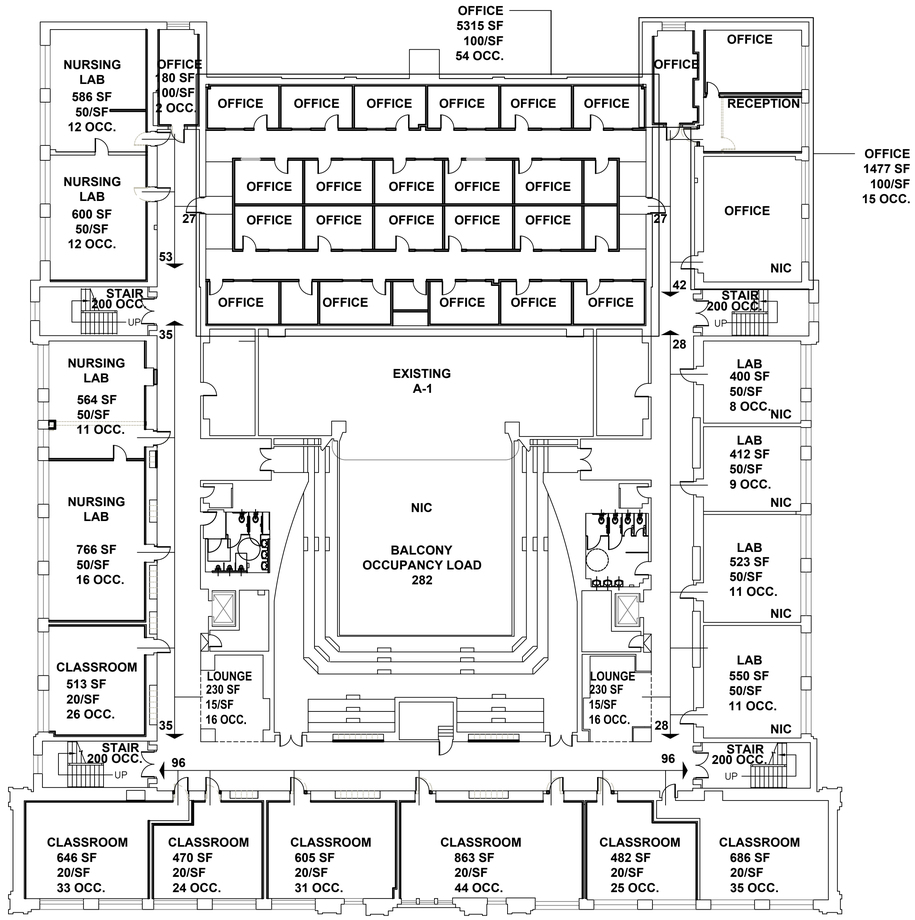
STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

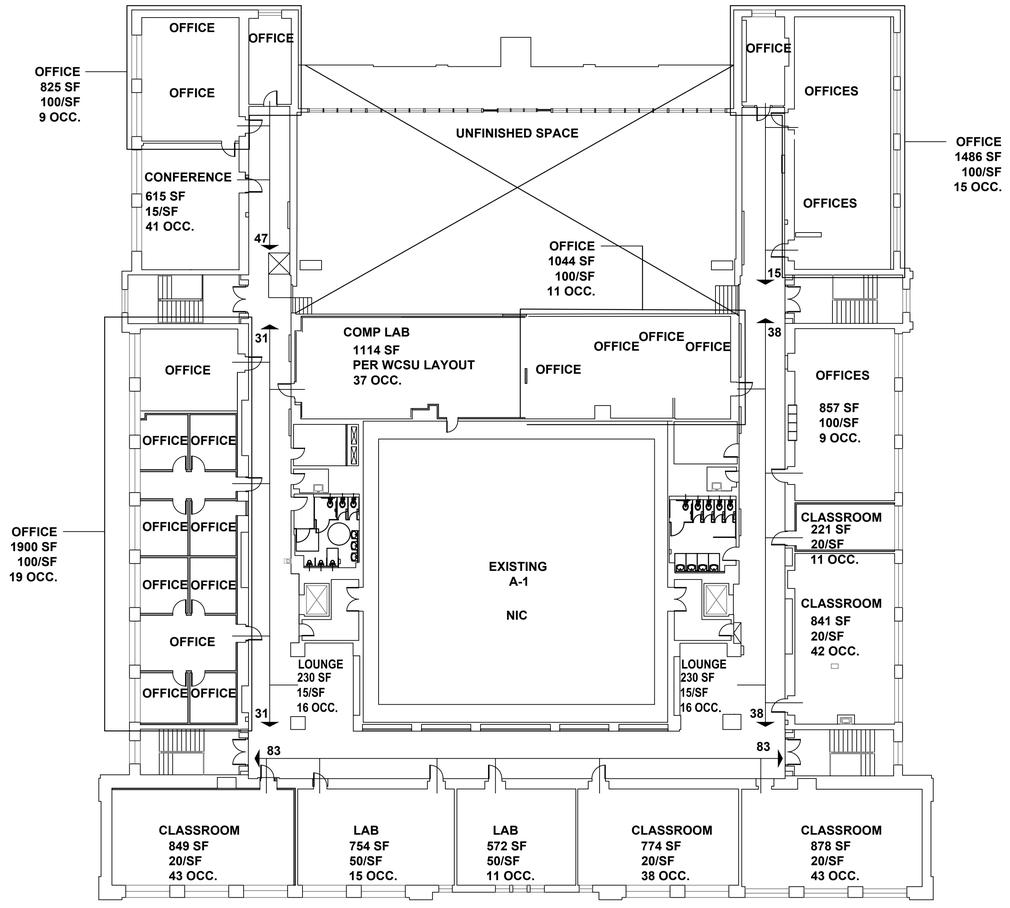
drawing prepared by: AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

date: 07/25/18
scale: AS NOTED
drawn by:
approved by:
drawing no.: G1.00

project: WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.:
project no.: BI-RD-299





SECOND FLOOR - BUSINESS OCCUPANCY EGRESS

TOTAL 411 OCC B

NON-SIMULTANEOUS USE OF BUSINESS AND ASSEMBLY

EXIT STAIRS 4x200=800 (CONTROLS)
EXIT DOOR 4x340=1,360

THIRD FLOOR - BUSINESS OCCUPANCY EGRESS

TOTAL 376 OCC B

drawing title
CODE INFORMATION

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	
	1/21/19	

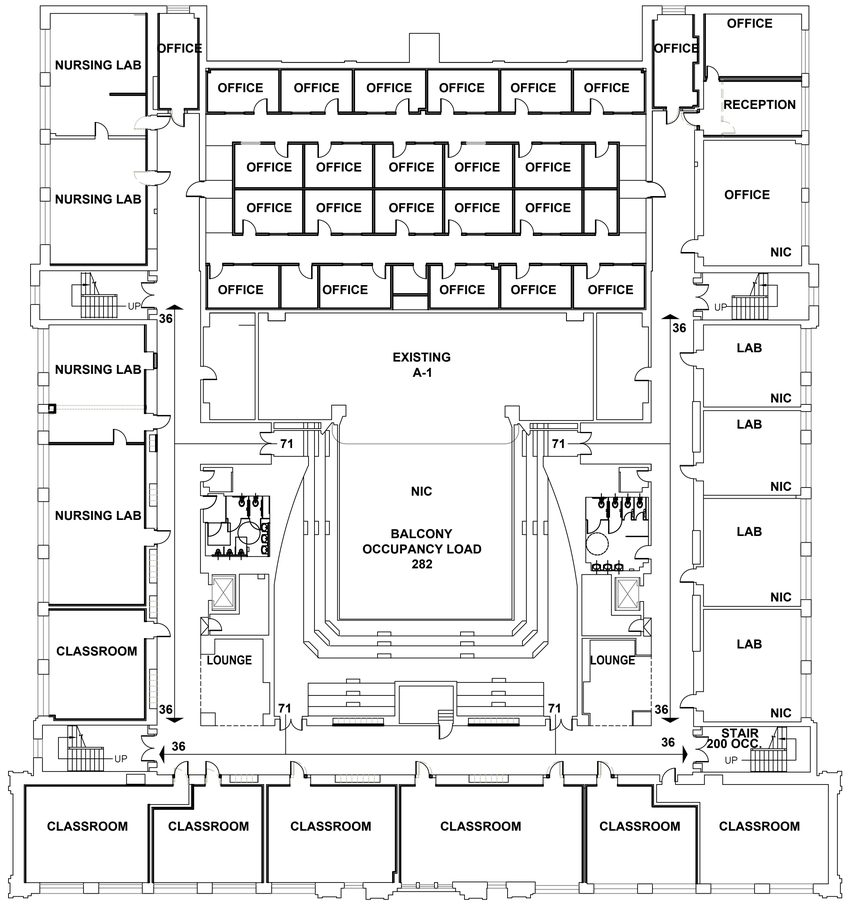
STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no. BI-RD-299

date 07/25/18
scale AS NOTED
drawn by CA/SP
approved by AL
drawing no. **G1.01**



N

SECOND FLOOR - ASSEMBLY OCCUPANCY EGRESS

TOTAL 282 OCC A-1

NON-SIMULTANEOUS USE OF BUSINESS AND ASSEMBLY

EXIT STAIRS 4x200=800 (CONTROLS)
EXIT DOOR 4x340=1,360

drawing title
CODE INFORMATION

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
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	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	
	1/21/19	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

date 07/25/18
scale AS NOTED
drawn by CA/SP
approved by AL
drawing no. **G1.02**

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no. BI-RD-299

State of Connecticut
Department of Administrative Services
Division of Construction Services
Office of Design and Construction - Code Unit
165 Capitol Avenue, Room 483
Hartford, CT 06106

Project Number:	BI-RD-299
Project Name:	Renovations to Second and Third Floors, White Hall, Western Connecticut State University
Project Location:	181 White Street, Danbury, CT
Date:	4/16/2018
Licensed Code Inspector:	(Name) (Signature)

The information on this form is intended to expedite the plan review process and is for archival purposes. It assembles all code related information into one table. The information shall be placed on the drawings and become a permanent record of the code information applicable to this building.

PART 1 - CT STATE BUILDING CODE

1.0	**EXISTING BUILDING:**	☒	YES	☐	NO	☐	N/A
1.1	Continuation of Existing Use	☒	YES	☐	NO	☐	N/A
1.2	Change of Use	☐	YES	☒	NO	☐	N/A
1.3	Complying with International Existing Building Code	☐	YES	☒	NO	☐	N/A Chptr 34
2.0	**NEW BUILDINGS OR ADDITIONS:**	☐	YES	☐	NO	☐	N/A
2.1	Exceeds Threshold Building Limits	☐	YES	☐	NO	☒	N/A

3.0 OCCUPANCY CLASSIFICATION: **A-1 Assembly, B Business**

3.1 Mixed Occupancies: **yes**

4.0 HEIGHT AND AREA COMPUTATION + CONSTRUCTION TYPE: Existing Bldg. Assumed Construction Type IIIB

GENERAL BUILDING LIMITATIONS (Chapters 5 & 6)

Use **Case 1** to determine the allowable height and area and permitted construction types for the building containing a single occupancy or non-separated mixed occupancies. Use **Case 2** to determine the allowable height and area and permitted types of construction for the building containing separated mixed occupancies.

AREA MODIFICATIONS TO TABLE 503

% of allowable tabular area, A_t *(Table 503)*	**100%**	*Frontage (506.2)*	164 North	208 East	208 South	186 West
% Increase for frontage, I_f (506.2)	+ 69.4 %					
% Increase for automatic sprinklers, I_s *(506.3)*	+ 0 %	Total Frontage *(F)*	766 ft.	Perimeter *(P)*	811 ft.	
Total percentage factor	= 169.4 %	Width of open space *(W)*	= 30			
Conversion factor	1.694 / Total percentage factor ÷ 100%	% Frontage increase (I_f) *(506.2)*	= 69.4			

$$I_f = 100\left[\frac{F}{P} - 0.25\right]\frac{W}{30}$$

Date:	
Project Number:	

CASE 1 – SINGLE OCCUPANCY OR NON-SEPARATED USES (302.3.1)

Using Table 503, identify the allowable height and area of the single occupancy or the most restrictive of the non-separated mixed occupancies. Construction types providing an allowable tabular area equal to or greater than the adjusted building area and allowable heights (as modified by Section 504) equal to or greater than the actual building height are permitted.

DETERMINE CONSTRUCTION TYPE		ALLOWABLE AREA (506.4)	
Actual building area	ft²	Allowable area per floor *(A_a)*	
Adjusted building area (actual building area ÷ conversion factor)	ft²	1.694 (conversion factor) x 23000 (tabular area (Table 503)) = 38692	ft²
Actual building height	55 vif feet	3 stories	
Allowable building height	55 feet	3 stories	
Permitted construction types	IIB (23,000), IIIB (19,000)	Total floor area (all stories)	51242 ft²
Type of construction assumed for review (602.1.1)	IIB (2001 Code Update Project)	Allowable floor area (all stories)	
		38692 (Allowable area per floor A_a) x 2 (Number of stories (maximum 3)) = 77924	ft²

CASE 2 – MIXED OCCUPANCY SEPARATED USES (302.3.2)

Using Table 503, identify the allowable height and area of each of the separated uses within the building. Construction types providing for each story of the building, tabular areas (as modified by Section 506), which result in a sum of the ratios of 1.00 or less and allowable heights (as modified by Section 504) equal to or greater than the actual height of the use are permitted.

Story	Group	Actual floor area	Adjusted floor area*	Actual height		Allowable height	
		ft²	ft²	ft	stories	ft	stories
		ft²	ft²	ft	stories	ft	stories
		ft²	ft²	ft	stories	ft	stories
		ft²	ft²	ft	stories	ft	stories
		ft²	ft²	ft	stories	ft	stories
		ft²	ft²	ft	stories	ft	stories
		ft²	ft²	ft	stories	ft	stories
		ft²	ft²	ft	stories	ft	stories

$$\sum \frac{\text{Adjusted floor area *}}{\text{Allowable tabular area, } A_t \textit{ (Table 503)}} = \_\_ + \_\_ + \_\_ + \_\_ + \_\_ = \_\_ \leq 1.00$$

*Adjusted floor area = actual floor area + conversion factor

Date:	
Project Number:	

ALLOWABLE AREA (506.4)

Allowable area per floor *(A_a)*:

1.694 (conversion factor) x 23000 (tabular area *(Table 503)*) = 38692 ft²

Total floor area (all stories): 51242 ft²

38692 (Allowable area per floor A_a) x 2 (Number of stories (maximum 3)) = 77924 ft²

Permitted types of construction: **IIB, IIIB**

Type of construction assumed for review (602.1.1): **IIB**

MEZZANINES (505)

N/A Area limitation *(505.2)*

Egress (505.3)

Openness (505.4)

Equipment platforms (505.5)

UNLIMITED AREA BUILDINGS (507)

N/A Unsprinklered, one story *(507.1)*

Sprinklered, one story *(507.2)*

Two story *(507.3)*

Reduced open space *(507.4)*

Group A-3 buildings *(507.5)*

High-hazard use groups *(507.6)*

Aircraft paint hangar *(507.7)*

Group E buildings *(507.8)*

Motion picture theaters *(507.9)*

SPECIAL PROVISIONS (508)

Special condition applicable *(508.1)*

Date:	
Project Number:	

CONSTRUCTION INFORMATION

6.0	**MEANS OF EGRESS:**		
6.1	**Total Occupant Load** (Entire Building floors 2,3)	**1055**	
6.2	**Total Occupant Load** (Largest Floor Floor 2)	**669**	
6.3	**Total Capacity Of Exits**	**800**	**Stairs**
6.4	**Total Number of Exits**	**4**	
7.0	**FIRE RESISTANT RATING OF STRUCTURE ELEMENTS** (TABLE 602) **REFER TO CONSTRUCTION DOCUMENTS FOR THE FOLLOWING:**		
7.1	**Exterior Walls:**		
7.1.1	Load Bearing	**0**	**HR(S) per Table 602**
7.1.2	Non-load Bearing	**0**	**HR(S)**
7.2	**Fire Walls & Party Walls**	**N/A**	**HR(S)**
7.3	**Fire Separation Assemblies:**		
7.3.1	Fire enclosure of exits	**1**	**HR(S)**
7.3.2	Shafts	**1**	**HR(S)**
7.3.3	Mixed Use Separation	**N/A**	**HR(S)**
7.3.4	Other Separation Assemblies:		**HR(S)**
7.4	**Fire Partitions**	**1**	**HR(S)**
7.5	**Dwelling Unit Separations**	**N/A**	**HR(S)**
7.6	**Smoke Barriers**		**HR(S)**
7.7	**Other Non bearing Partitions**		**HR(S)**
7.8	**Interior Bearing Walls, Bearing Partitions, Columns, Girders, Trusses and Framing:**		
7.8.1	Supporting more than one floor	**0**	**HS(S)**
7.8.2	Supporting one floor only or a roof:	**0**	**HR(S)**
7.8.3	Structural Members Supporting Wall	**0**	**HR(S)**
7.9	**Floor Construction Including Beams**	**0**	**HR(S)**
7.10	**Roof Construction**	**0**	**HR(S)**
7.10.1	* 15 ft. or less:		**HR(S)**
7.10.2	* 15 ft. or more:		**HR(S)**
7.10.3	* 20 ft. or more:		**HR(S)**
	* Height to lowest member.		
8.0	**FIRE PROTECTION SYSTEM:**		
8.1	Fire Suppression System	**Partial (A-1)**	
8.2	Alarms	**Y**	
8.3	Automatic Fire Detection System	**Y**	
8.4	Smoke Control System	**UNK**	
8.5	Supervision		

Date:	
Project Number:	

PART 2 - CONNECTICUT STATE FIRE SAFETY CODE

1.0	**CLASSIFICATION OF OCCUPANCY:**	**B Business**
2.0	**CONSTRUCTION CLASSIFICATION:**	**IIB EXISTING ASSUMED**
3.0	**MINIMUM CONSTRUCTION TYPE REQUIRED;**	**IIB EXISTING ASSUMED**
4.0	**ACTUAL CONSTRUCTION TYPE PROVIDED:**	**IIB**
5.0	**NOTIFICATION/ALARMS:**	**Y**
6.0	**DETECTION:**	**Y**
7.0	**EXTINGUISHMENT REQUIREMENTS:**	**N (Existing Building has a sprinkler system for the Existing A Occupancy**

END

BUILDING INFORMATION
FOR CODE ANALYSES

drawing title
CODE INFORMATION
FORM 3011

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	

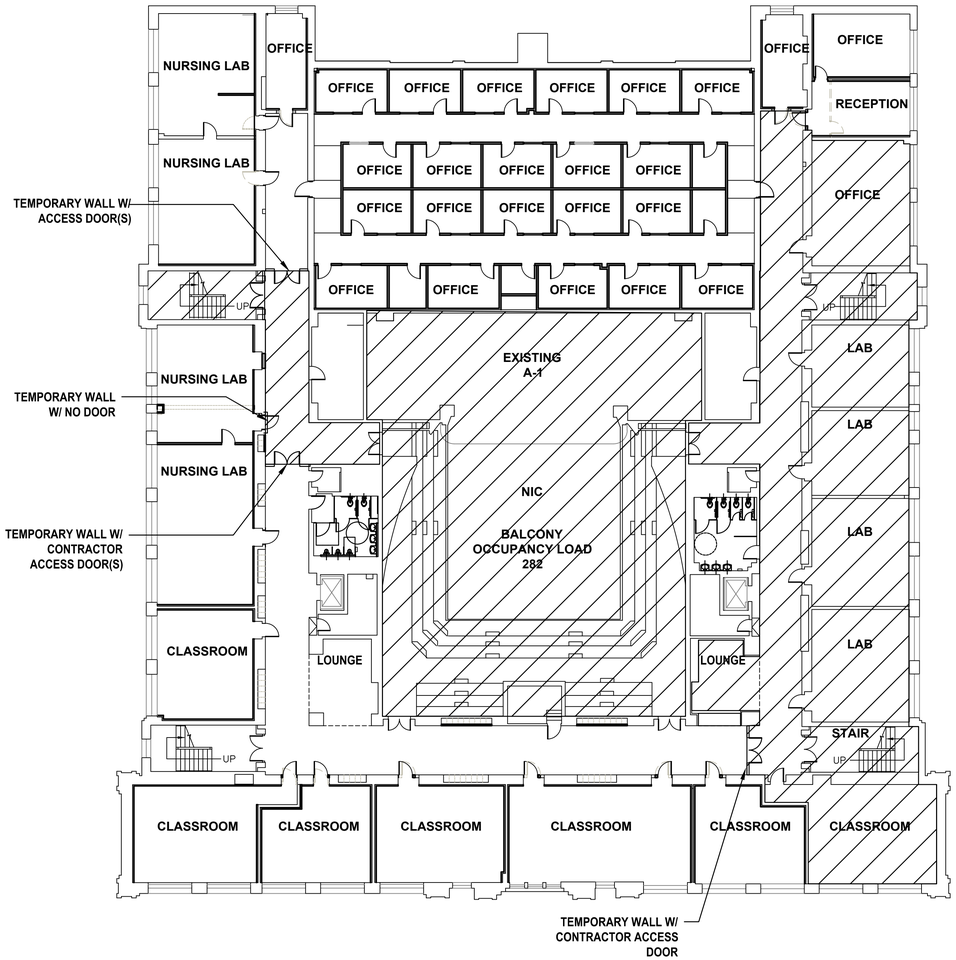
STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

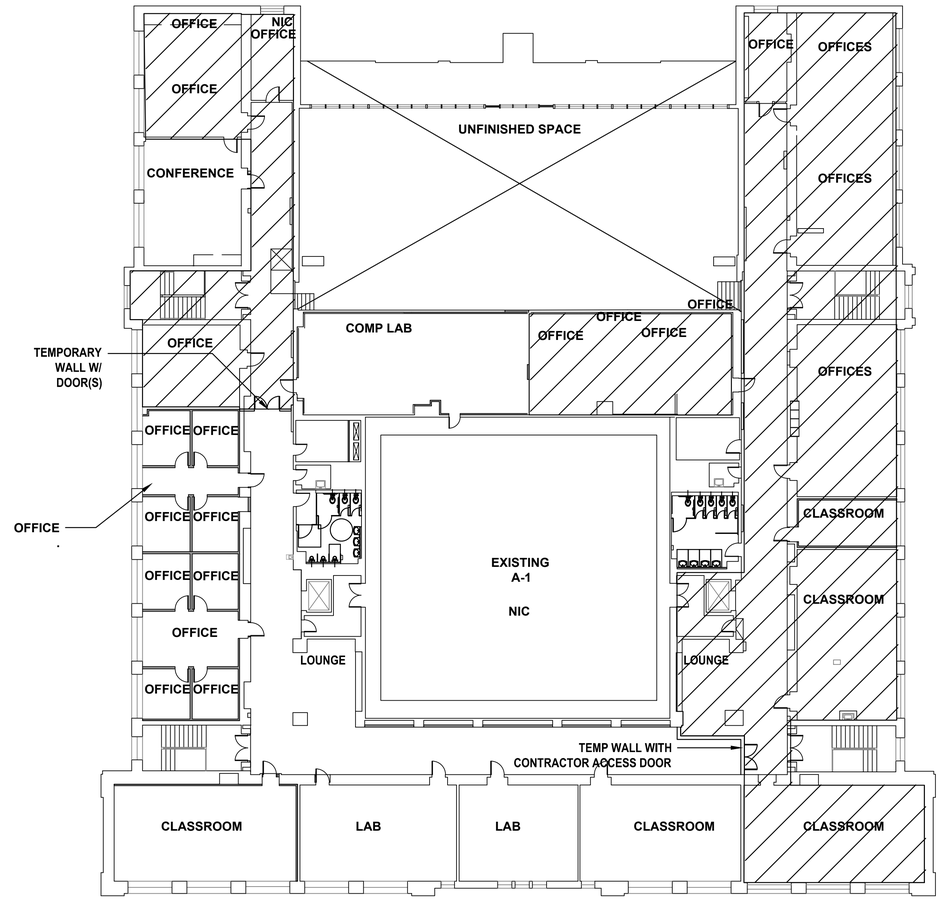
date: 07/25/18
scale: AS NOTED
drawn by: CA/SP
approved by: AL
drawing no.: **G1.03**

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no.: BI-RD-299



PROPOSED CONSTRUCTION EGRESS PLAN - SECOND FLOOR



PROPOSED CONSTRUCTION EGRESS PLAN - THIRD FLOOR

AREA OCCUPIED BY OWNER DURING CONSTRUCTION

GENERAL NOTES:

1. ALL TEMPORARY PARTITIONS SHALL BE 1 HOUR RATED PARTITIONS UL U404.
2. CONTRACTOR TO PROVIDE TWO MEANS OF EGRESS AT ALL TIMES.
3. PROVIDE (2) 3'-0" X 6'-8" TEMPORARY ACCESS DOORS AT EACH LOCATION. PROVIDE 1 HOUR RATED DOORS.
4. PROVIDE TEMPORARY ACCESS DOOR HARDWARE:

PANIC BAR WITH LEVER HANDLE	- TYPE 28, FUNCTION 09, GRADE 1
LOCKSET	- F82 GRADE 1, SERIES 4000
HINGES	- 1-1/2 PAIRS OF A5111

drawing title
CONSTRUCTION PARTITIONS

REVISIONS

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	4/16/18 5/23/18 7/25/18 1/21/19	CONSTRUCTION DOCUMENTS

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

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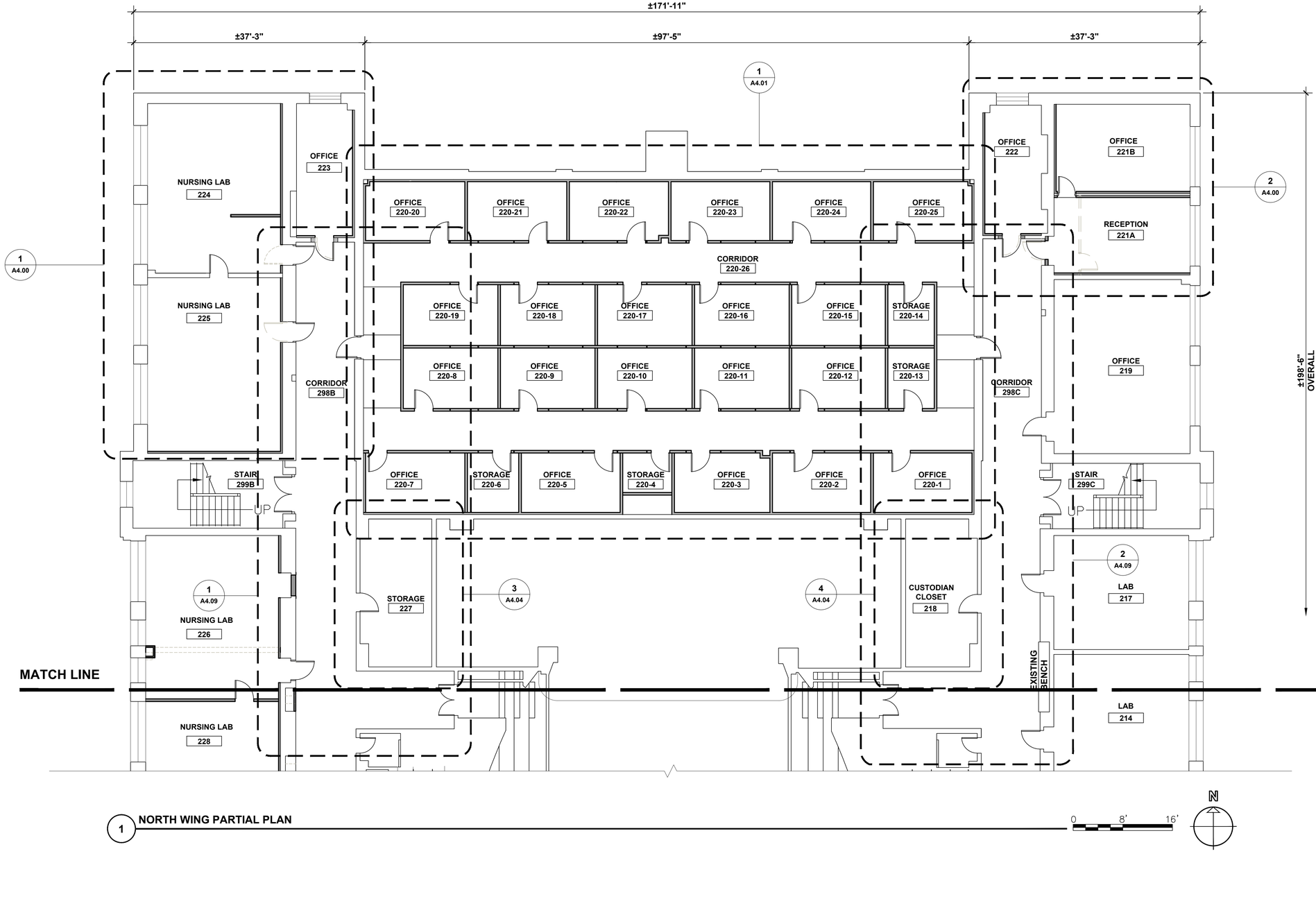
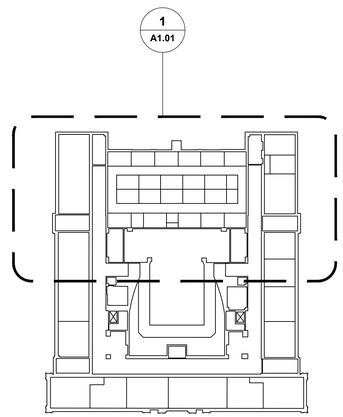


1 NORTH WING PARTIAL PLAN

0 8' 16'

N



KEY PLAN

drawing title
SECOND FLOOR -
NORTH PARTIAL PLAN

REVISIONS

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DEPARTMENT OF ADMINISTRATIVE SERVICES

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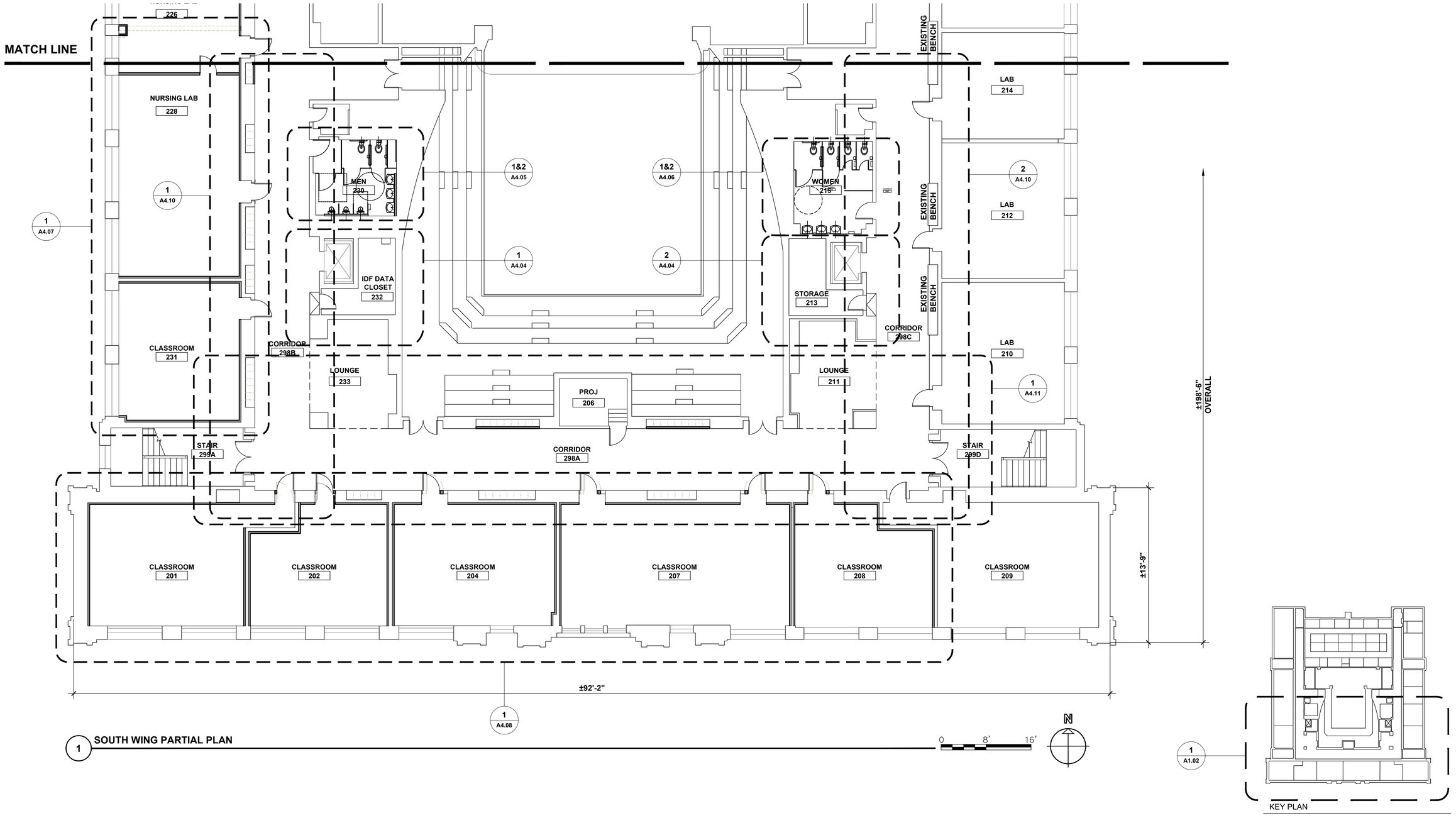

drawing title
SECOND FLOOR -
SOUTH PARTIAL PLAN

REVISIONS

mark	date	description
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	1/21/19	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

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DANBURY, CONNECTICUT

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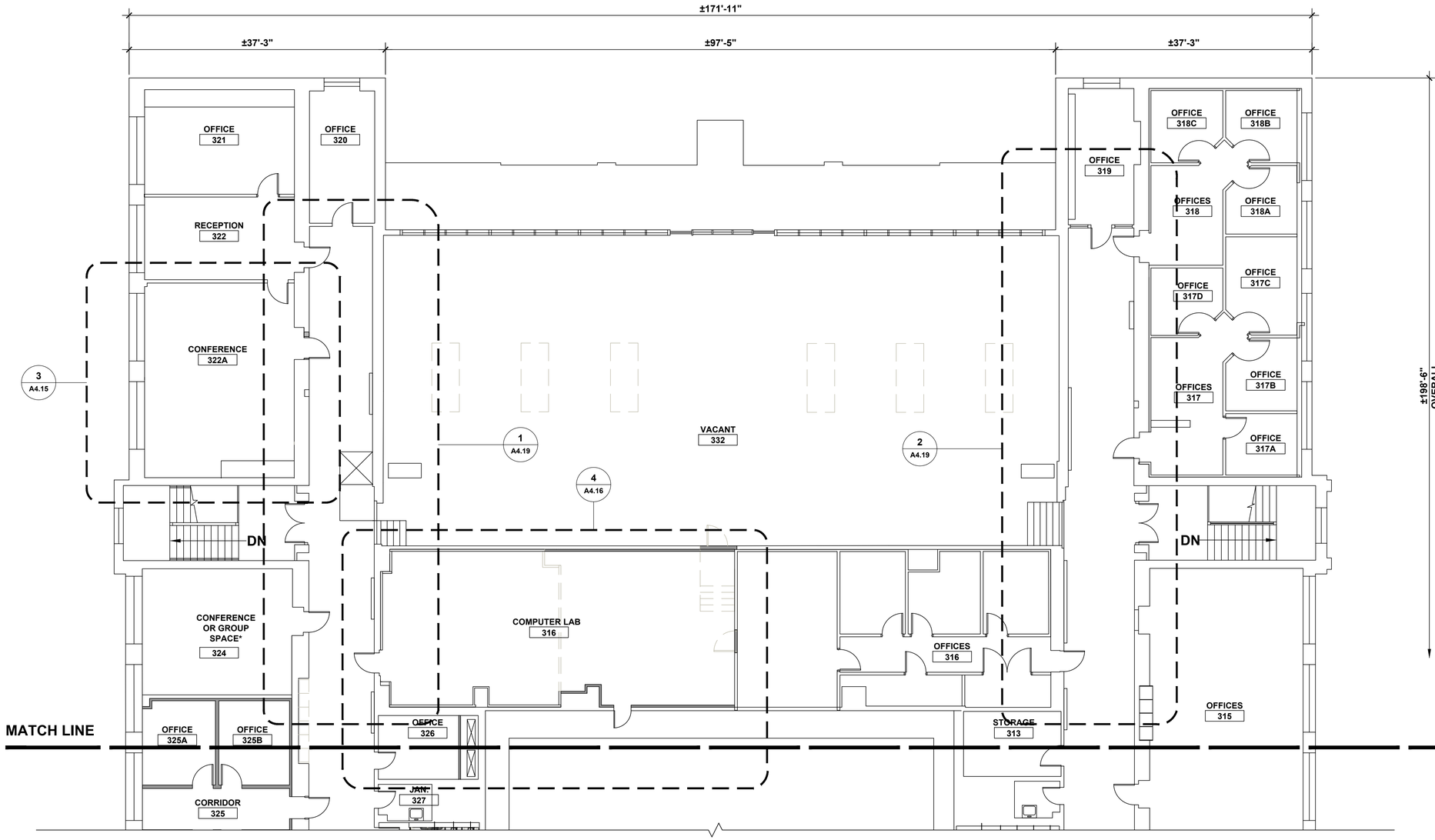
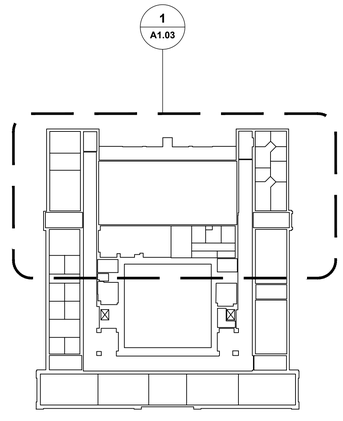


1 THIRD FLOOR - NORTH PARTIAL PLAN



KEY PLAN

drawing title
THIRD FLOOR -
NORTH PARTIAL PLAN

REVISIONS

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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

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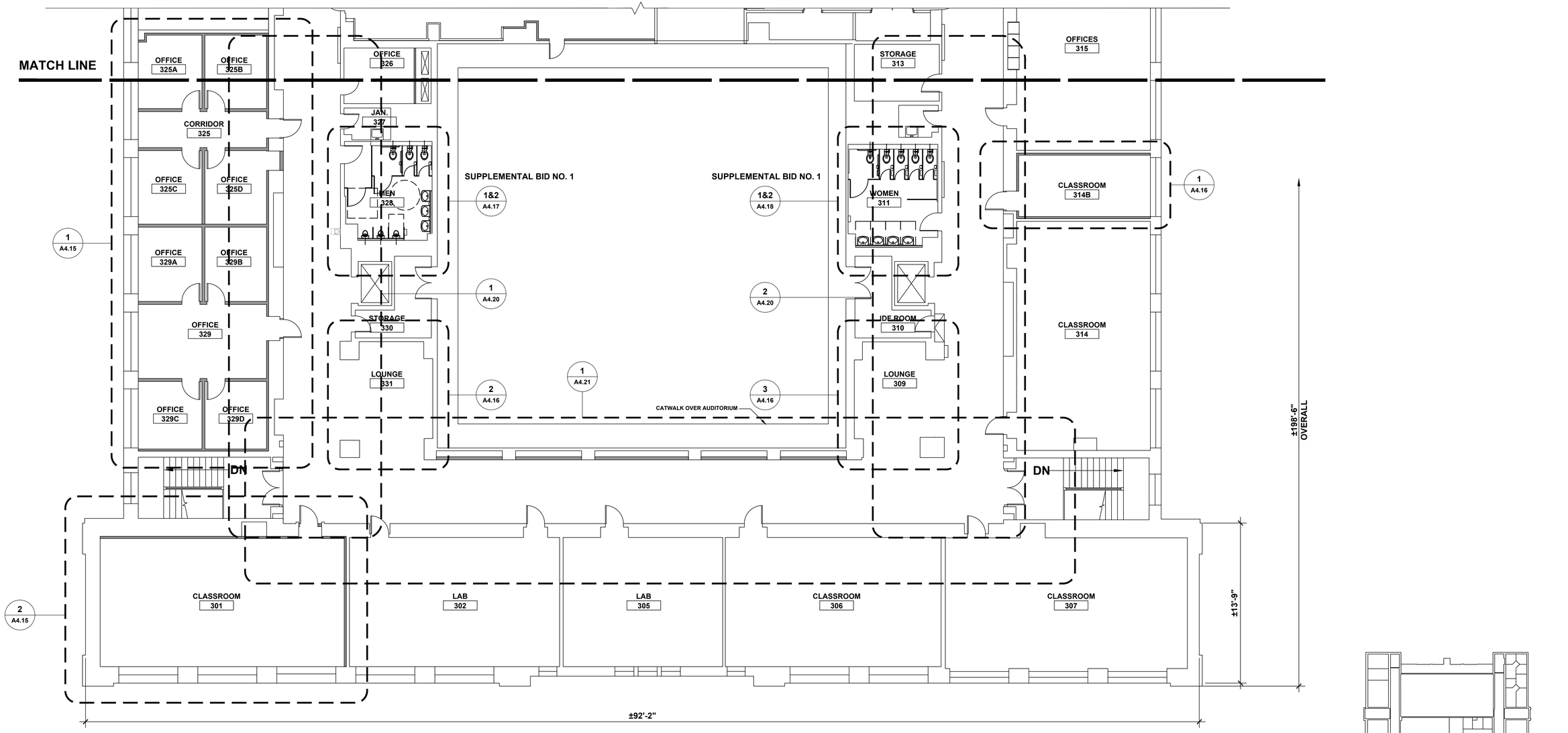
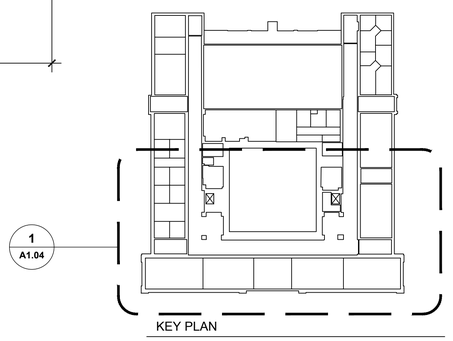


1 THIRD FLOOR - SOUTH PARTIAL PLAN

0 4 8 16



KEY PLAN

drawing title
THIRD FLOOR -
SOUTH PARTIAL PLAN

REVISIONS

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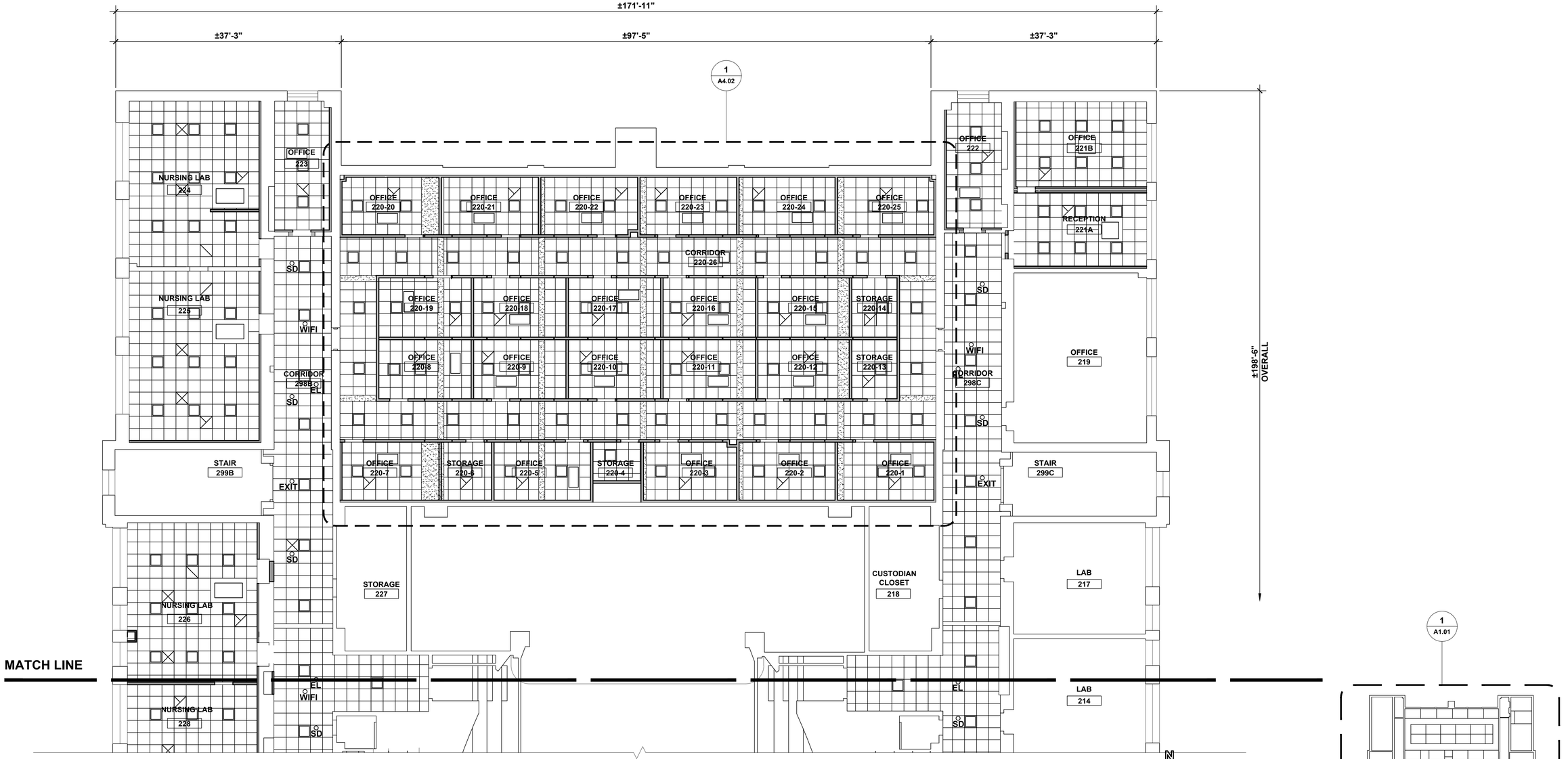


1 NORTH WING PARTIAL PLAN

0 8' 16'

N

1
A1.01

KEY PLAN

CEILING LEGEND

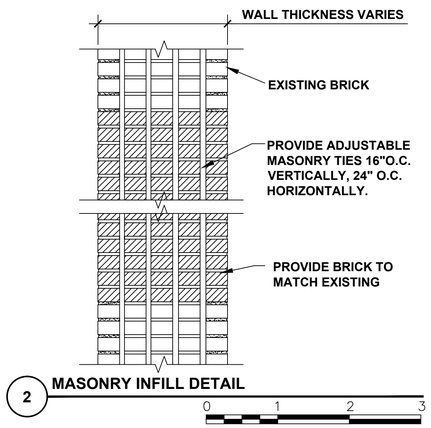
- 2 x 2 SUSPENDED CEILING
- GYPSUM BOARD CEILING, PAINTED
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- RECESSED FLUORESCENT LUMINAIRE

REFLECTED CEILING NOTES

1. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND FIXTURE DESCRIPTIONS OF LIGHTING, SUPPLY/RETURN DIFFUSERS, AND RADIANT CEILING HEATING PANELS.

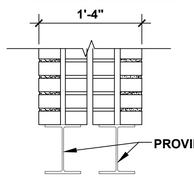
2. REFER TO MECHANICAL PLANS FOR DUCT PENETRATIONS AT CORRIDOR WALLS. COORDINATE SIZE OF OPENINGS TO ACCOMMODATE FIRE DAMPERS SHOWN ON DETAIL 5/M3.01.

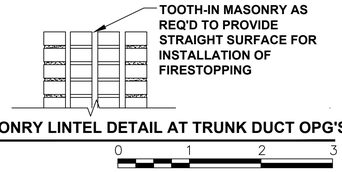
3. INFILL MASONRY WALL WHERE EXISTING DUCTS REMOVED. SEE MASONRY INFILL DETAIL.



2 MASONRY INFILL DETAIL

0 1 2 3





3 MASONRY LINTEL DETAIL AT TRUNK DUCT OPG'S

0 1 2 3

drawing title
SECOND FLOOR - NORTH
REFLECTED CEILING PLAN

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
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	7/25/18	
	1/21/19	

STATE OF CONNECTICUT
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WESTERN CT STATE UNIVERSITY
WHITE HALL
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DANBURY, CONNECTICUT

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BI-RD-299

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07/25/18

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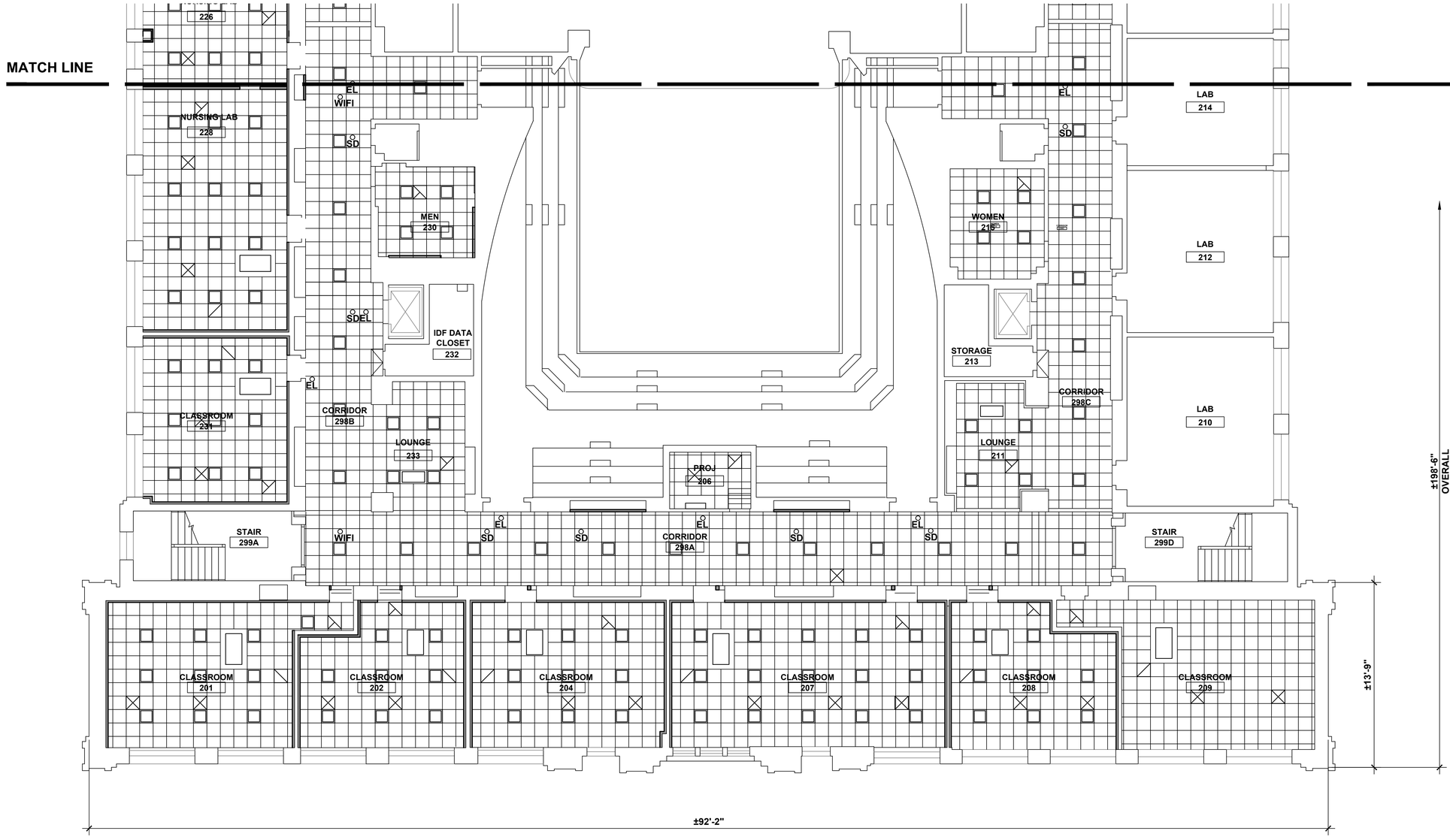
approved by
AL

drawing no.
A1.05



1 **SOUTH WING PARTIAL PLAN**

0 8' 16'

N

CEILING LEGEND

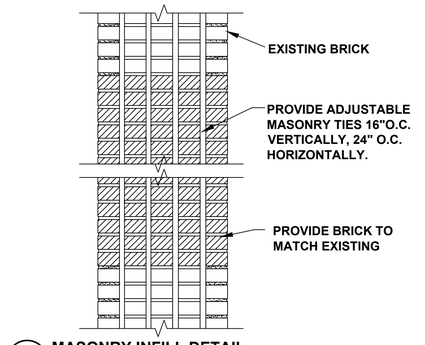
- 2 x 2 SUSPENDED CEILING
- GYPSUM BOARD CEILING, PAINTED
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- RECESSED FLUORESCENT LUMINAIRE

REFLECTED CEILING NOTES

1. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND FIXTURE DESCRIPTIONS OF LIGHTING, SUPPLY/RETURN DIFFUSERS, AND RADIANT CEILING HEATING PANELS.

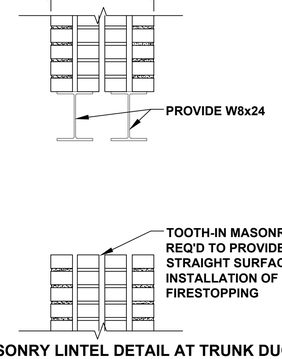
2. REFER TO MECHANICAL PLANS FOR DUCT PENETRATIONS AT CORRIDOR WALLS. COORDINATE SIZE OF OPENINGS TO ACCOMMODATE FIRE DAMPERS SHOWN ON DETAIL 5/M3.01.

3. INFILL MASONRY WALL WHERE EXISTING DUCTS REMOVED. SEE MASONRY INFILL DETAIL.



2 **MASONRY INFILL DETAIL**

0 1 2 3



3 **MASONRY LINTEL DETAIL AT TRUNK DUCT OPG'S**

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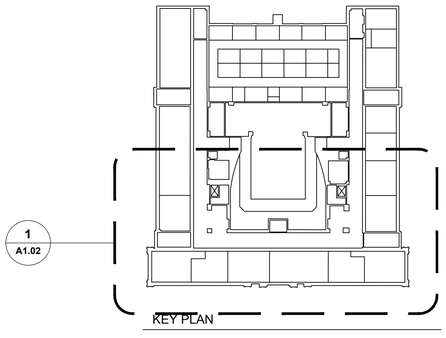

drawing title
SECOND FLOOR - SOUTH
REFLECTED CEILING PLAN

REVISIONS

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	8/4/17	SCHEMATIC DESIGN SUBMISSION
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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

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SOUTHINGTON, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.

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date 07/25/18
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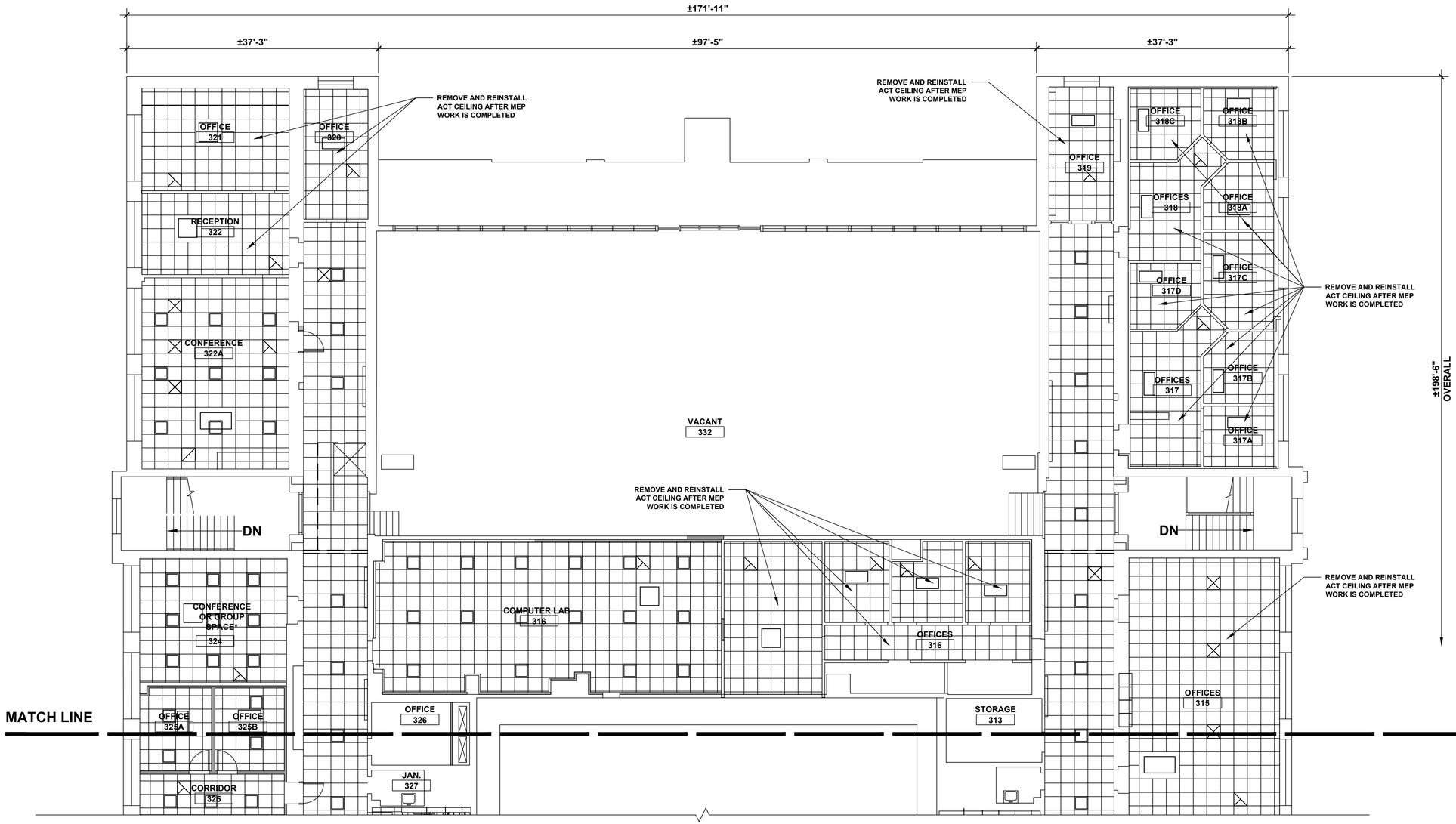
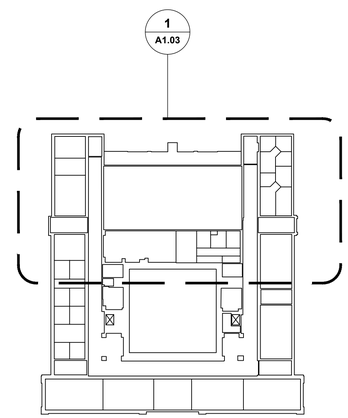


1 THIRD FLOOR - NORTH PARTIAL PLAN

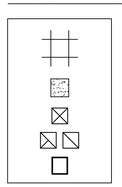
0 4 8 16

N



KEY PLAN

CEILING LEGEND



2 x 2 SUSPENDED CEILING

GYPSUM BOARD CEILING, PAINTED

SUPPLY DIFFUSER

RETURN DIFFUSER

RECESSED FLUORESCENT LUMINAIRE

REFLECTED CEILING NOTES

1. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND FIXTURE DESCRIPTIONS OF LIGHTING, SUPPLY/RETURN DIFFUSERS, AND RADIANT CEILING HEATING PANELS.

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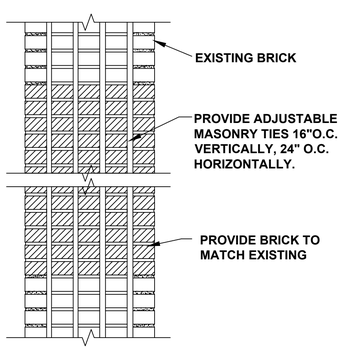

2 MASONRY INFILL DETAIL

0 1 2 3

drawing title
THIRD FLOOR - NORTH
REFLECTED CEILING PLAN

REVISIONS

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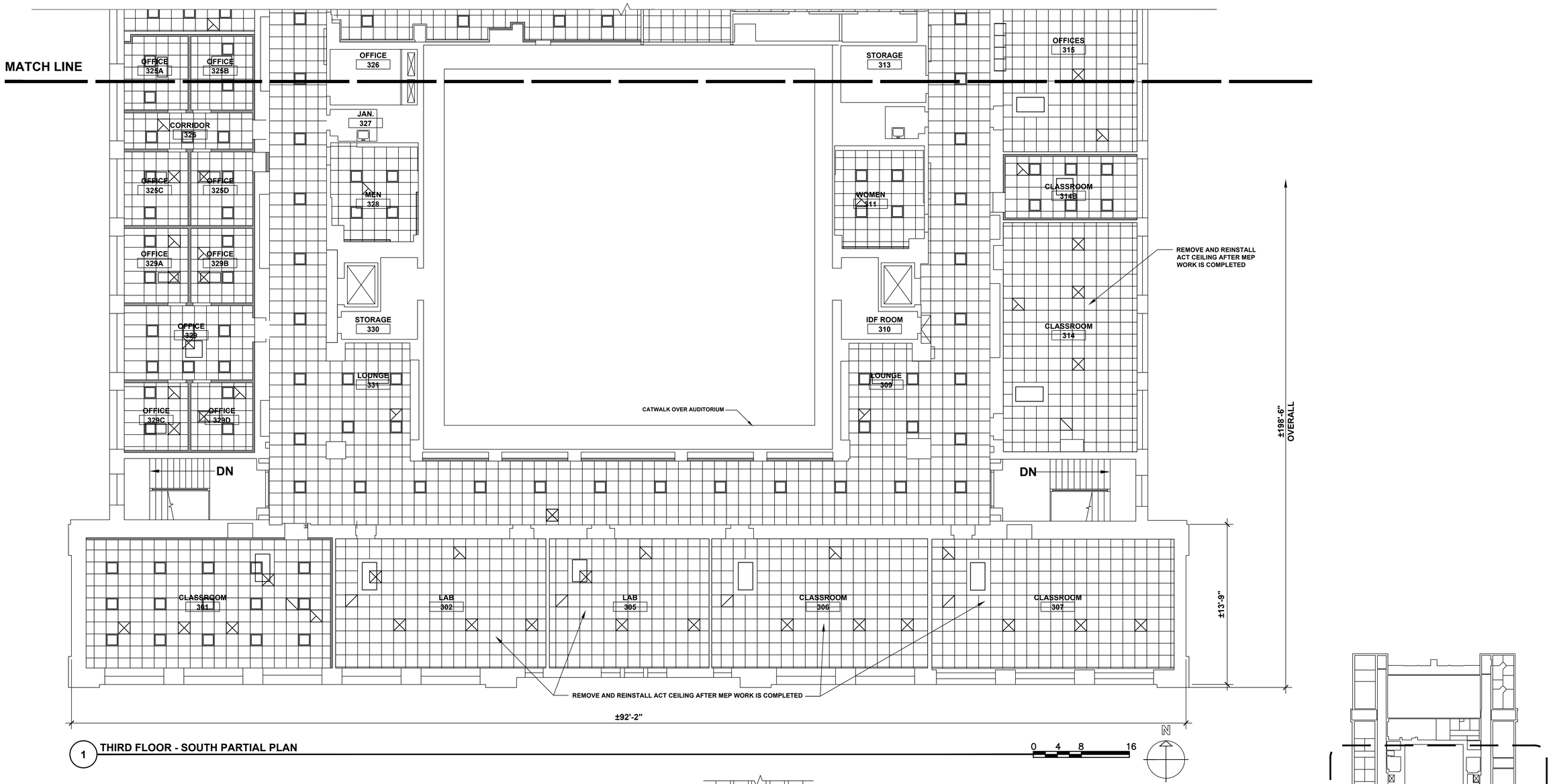
31 LIBERTY STREET
SOUTHINGTON, CT

date 07/25/18
scale AS NOTED
drawn by SP/CA
approved by AL

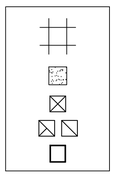
project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no. BI-RD-299
drawing no. A1.07



1 THIRD FLOOR - SOUTH PARTIAL PLAN

CEILING LEGEND



2 x 2 SUSPENDED CEILING

GYPSUM BOARD CEILING, PAINTED

SUPPLY DIFFUSER

RETURN DIFFUSER

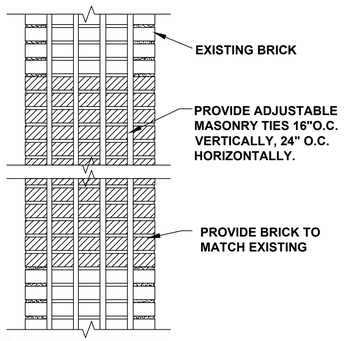
RECESSED FLUORESCENT LUMINAIRE

REFLECTED CEILING NOTES

1. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND FIXTURE DESCRIPTIONS OF LIGHTING, SUPPLY/RETURN DIFFUSERS, AND RADIANT CEILING HEATING PANELS.

2. REFER TO MECHANICAL PLANS FOR DUCT PENETRATIONS AT CORRIDOR WALLS. COORDINATE SIZE OF OPENINGS TO ACCOMMODATE FIRE DAMPERS SHOWN ON DETAIL 5/M3.01.

3. INFILL MASONRY WALL WHERE EXISTING DUCTS REMOVED. SEE MASONRY INFILL DETAIL.



2 MASONRY INFILL DETAIL

0 1 2 3

drawing title
THIRD FLOOR - SOUTH
REFLECTED CEILING PLAN

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.

project no.
BI-RD-299

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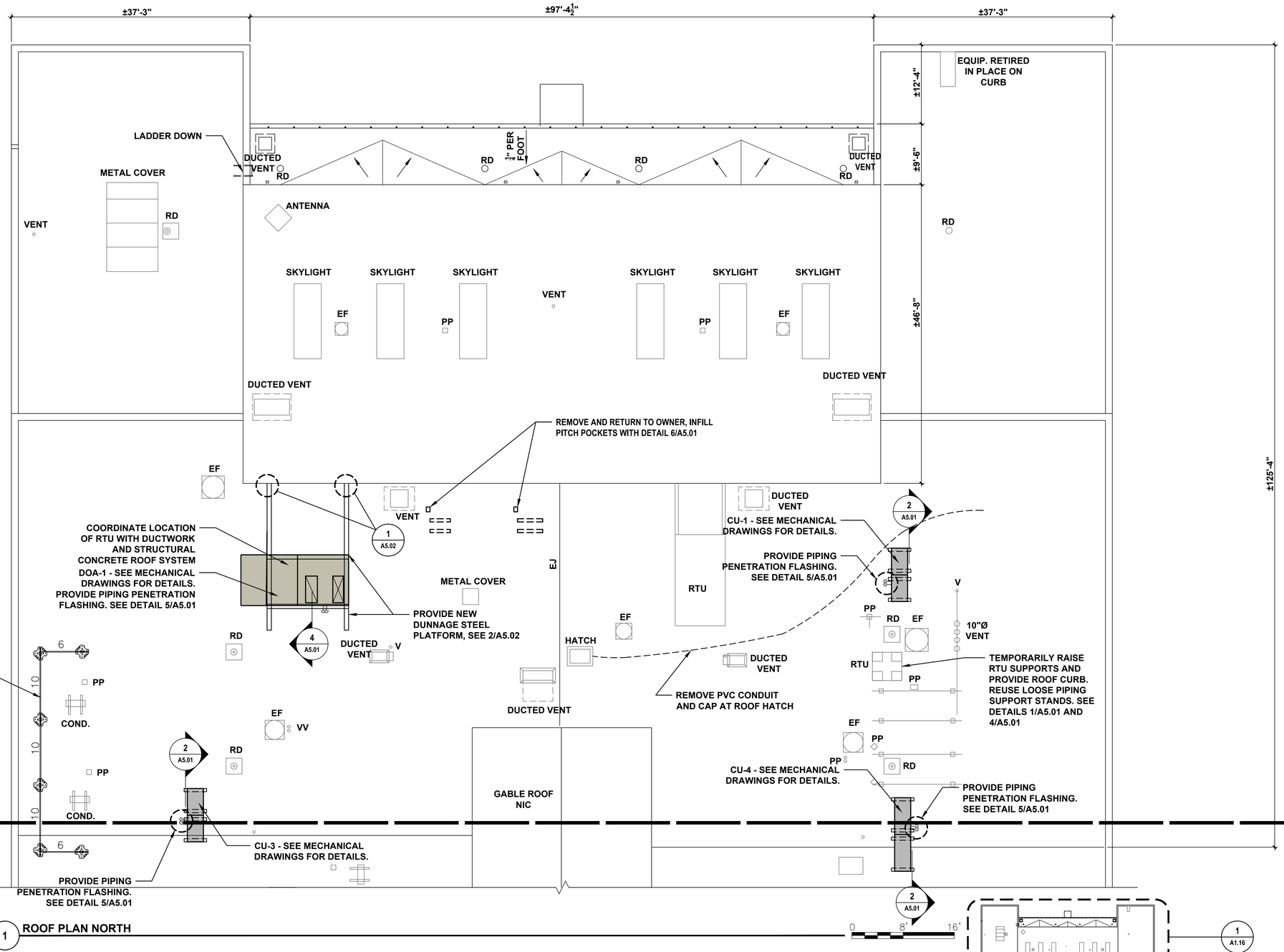
drawing no. **A1.08**



1 ROOF PLAN NORTH

FALL PROTECTION LEGEND

10	6	PORTABLE FALL PROTECTION: BASE PLATE
	3	PORTABLE FALL PROTECTION: 42" HIGH x 10'-0" RAIL
6	2	PORTABLE FALL PROTECTION: 42" HIGH x6'-0" RAIL

KEY PLAN

drawing title
ROOF - NORTH PARTIAL PLAN

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
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31 LIBERTY STREET
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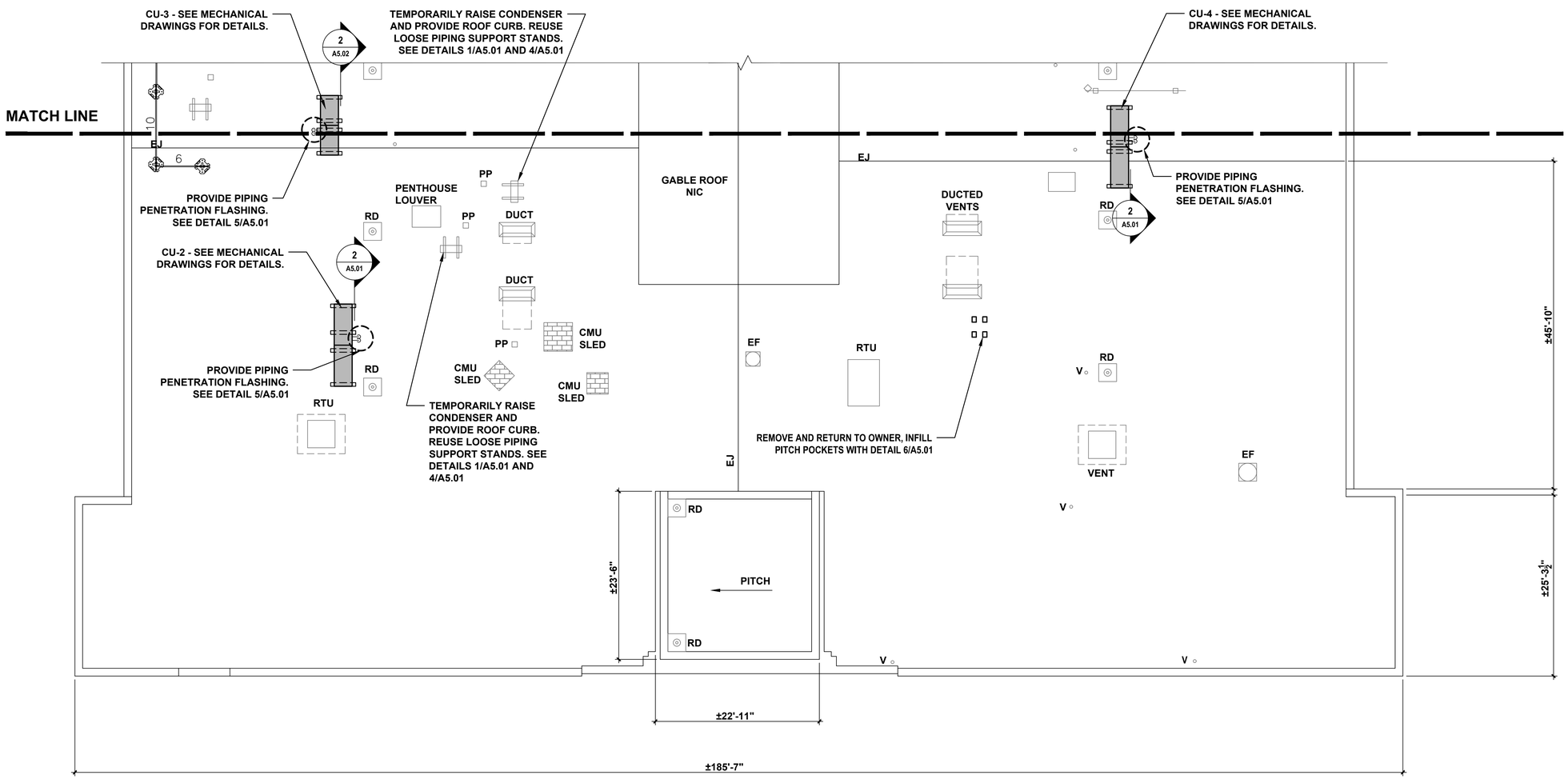
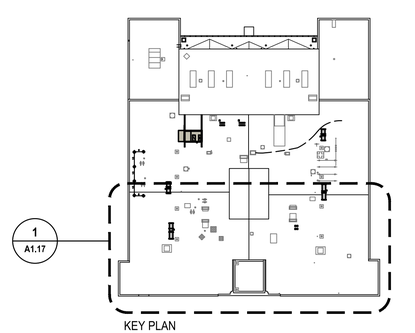


1 **ROOF PLAN SOUTH**

0 8' 16'



drawing title
ROOF - SOUTH PARTIAL PLAN

REVISIONS

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	8/4/17	SCHEMATIC DESIGN SUBMISSION
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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
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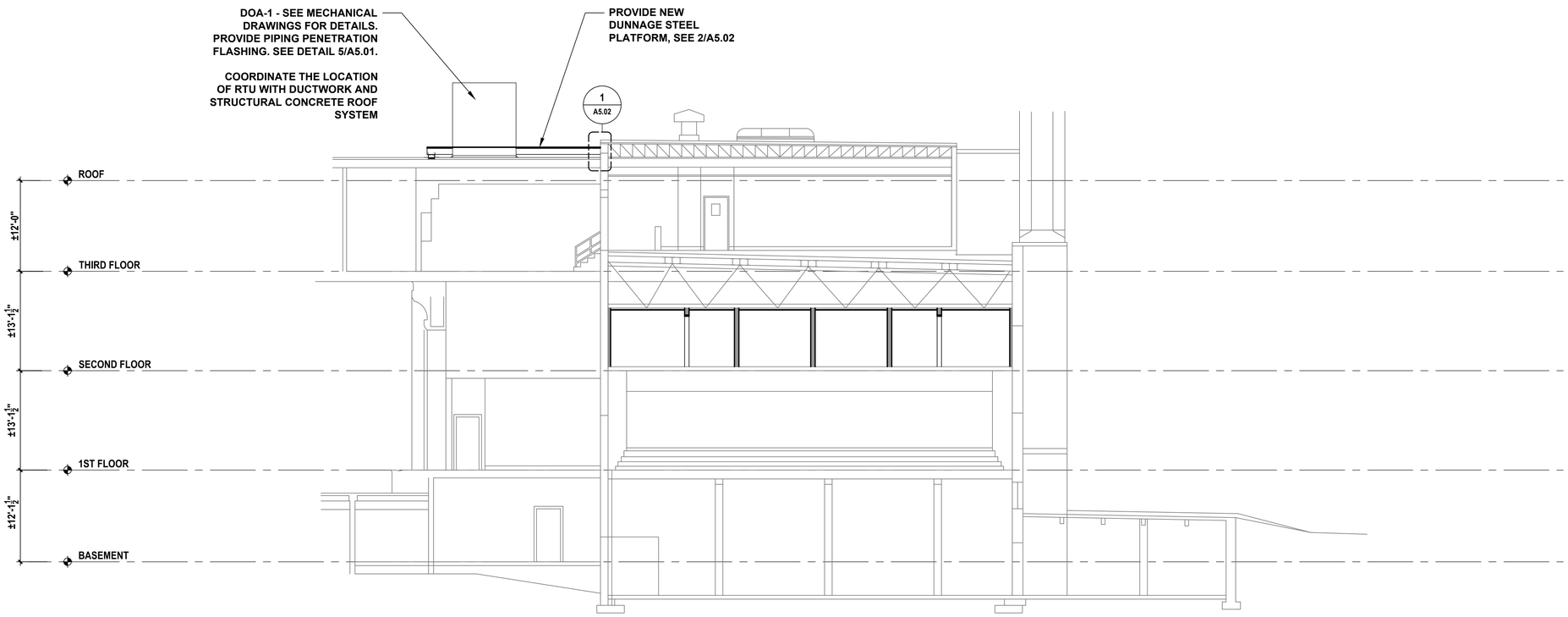
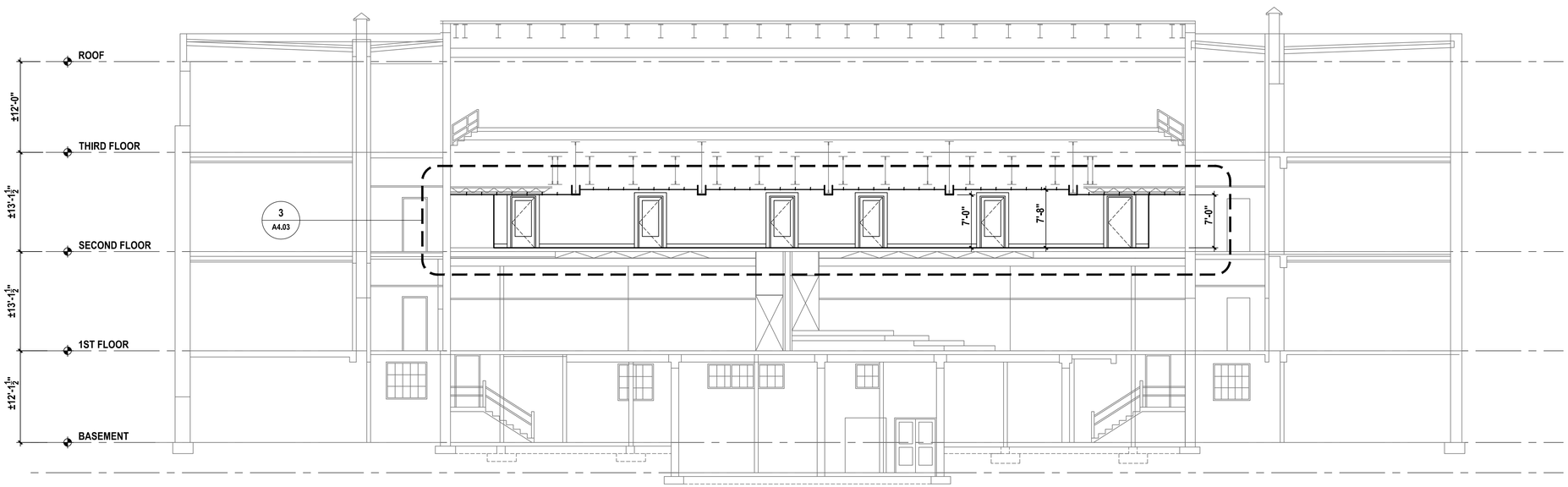
approved by
AL

drawing no.
A1.10



1 BUILDING SECTION

0 8' 16'



2 BUILDING SECTION

0 8' 16'

drawing title
BUILDING SECTIONS

REVISIONS

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	8/4/17	SCHEMATIC DESIGN SUBMISSION
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	7/25/18	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
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31 LIBERTY STREET
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DANBURY, CONNECTICUT

CAD no.
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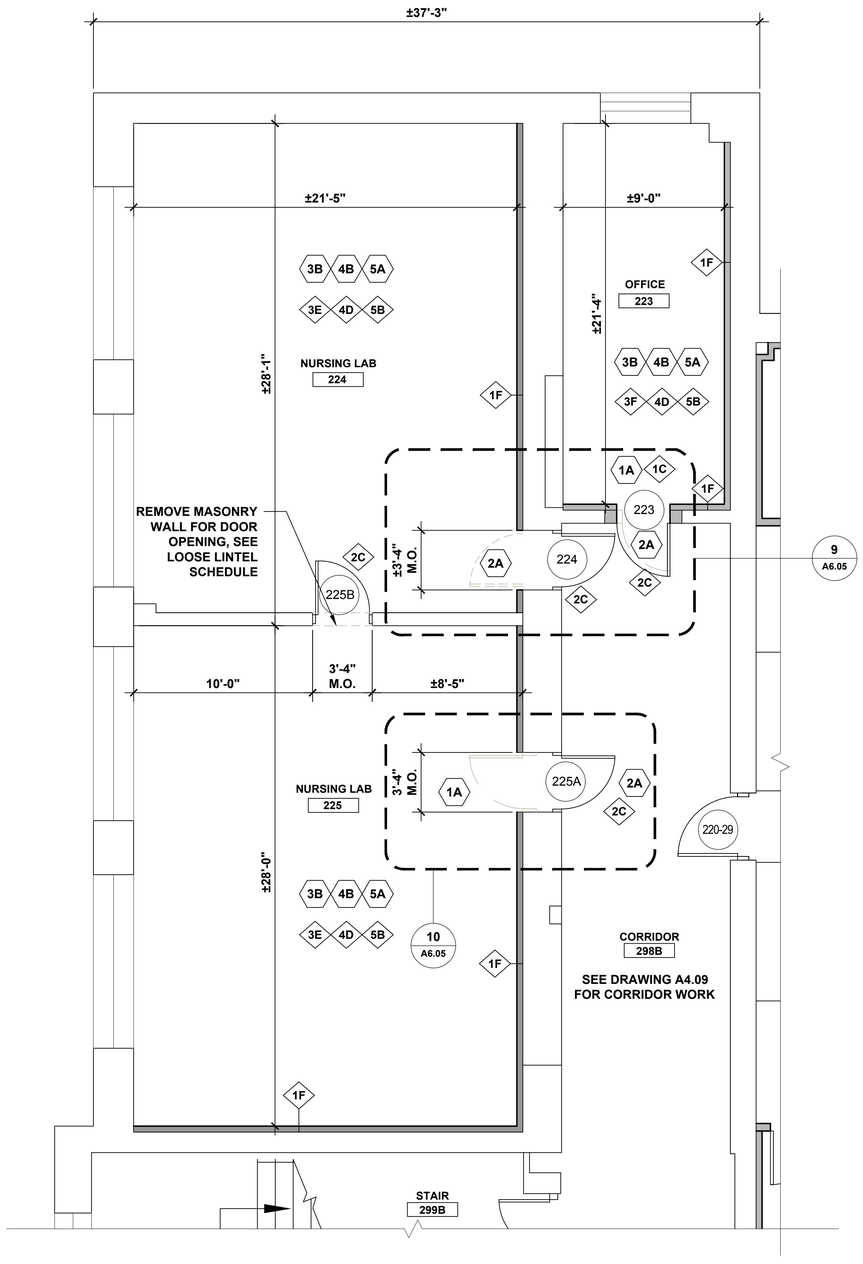
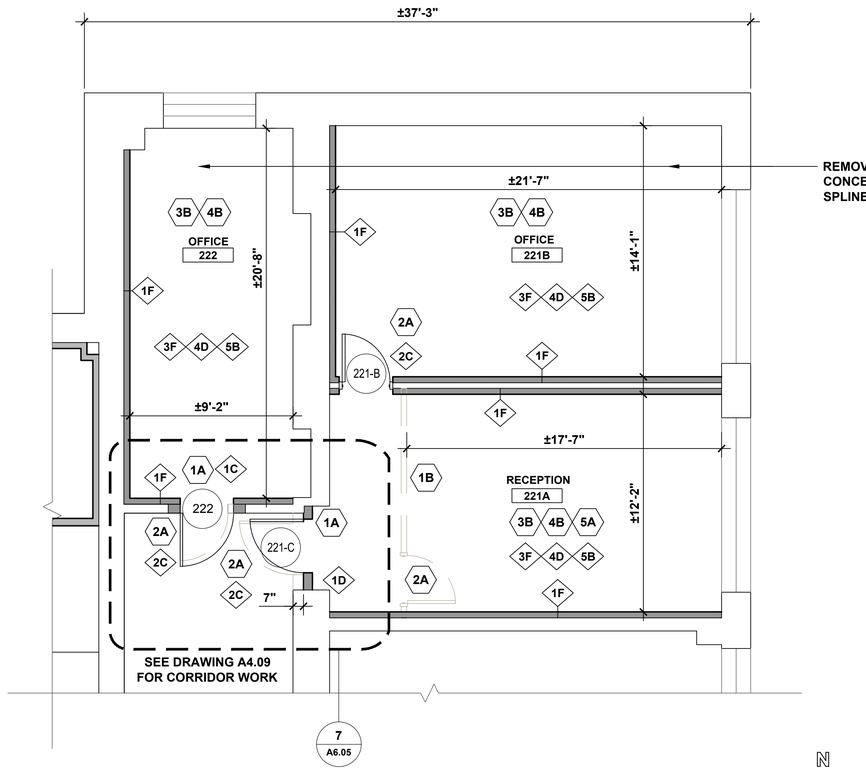
drawing no. **A3.01**



1 NORTHWEST CORNER PARTIAL PLAN

0 2 4 8



2 NORTHEAST CORNER PARTIAL PLAN

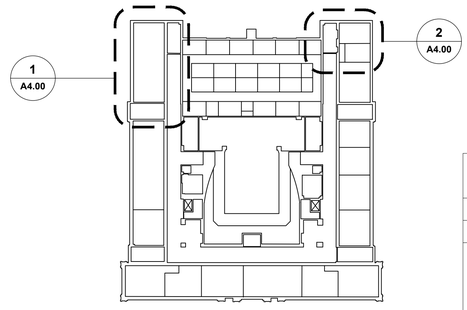
0 2 4 8

LOOSE LINTEL SCHEDULE

LOOSE LINTELS SHALL CONSIST OF ONE ANGLE FOR EACH 4" OF MASONRY AS FOLLOWS

SIZE OF MASONRY OPENING	SIZE OF ANGLE
UP TO 4'-0"	$3\frac{1}{2}$" X $3\frac{1}{2}$" X $\frac{5}{16}$"
UP TO 5'-6"	5" X $3\frac{1}{2}$" X $\frac{5}{16}$"

NOTE: THE LONG LEGS OF ALL ANGLES ARE TO BE VERTICAL.
LINTELS ARE TO BEAR 8" ON MASONRY AT EACH END.



KEY PLAN

DEMOLITION KEY NOTES

- 1A REMOVE MASONRY WALL.
- 1B REMOVE STUD AND GYP BD WALL.
- 2A REMOVE DOOR AND FRAME.
- 2B REMOVE DOOR. EXISTING FRAME TO REMAIN.
- 3A REMOVE C.T. FLOOR.
- 3B REMOVE VCT FLOOR.
- 3C REMOVE CARPET.
- 4A REMOVE C.T. WAINSCOT AND BASE.
- 4B REMOVE VINYL BASE
- 5A REMOVE ACT CEILING.
- 6A REMOVE LAV.
- 6B REMOVE TOILET & TOILET PARTITION.
- 6C REMOVE URINAL AND URINAL SCREEN.

NEW WORK KEY NOTES

- 1C PROVIDE MASONRY WALL.
- 1D PROVIDE 1 HOUR RATED WALL, $3\frac{5}{8}$" METAL STUDS WITH $\frac{5}{8}$" TYPE 'X' GYP. BOARD BOTH SIDES
- 1E PROVIDE $\frac{5}{8}$" MOISTURE RESISTANT GYP BD ON EXISTING STUDS.
- 1F PROVIDE $3\frac{5}{8}$" METAL STUDS WITH $\frac{5}{8}$" TYPE 'X' GYP. BOARD ONE SIDE
- 1G PROVIDE $3\frac{5}{8}$" METAL STUDS WITH $\frac{5}{8}$" TYPE 'X' GYP. BOARD BOTH SIDES
- 2C PROVIDE WOOD DOOR AND HM FRAME.
- 2D PROVIDE WOOD DOOR IN EXISTING HM FRAME.
- 3D PROVIDE CT FLOOR AND CT BASE.
- 3E PROVIDE VCT AND RESILIENT BASE.
- 3F PROVIDE CARPET AND RESILIENT BASE.
- 3G EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)
- 4C PROVIDE CT WAINSCOT AND BASE/ PAINT ABOVE
- 4D PREP AND PAINT WALLS
- 4E PROVIDE HORIZONTAL WINDOW BLINDS
- 5B PROVIDE ACT CEILING.
- 5C REMOVE & REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.
- 5D PROVIDE GYPSUM BOARD CEILING/SOFFIT AND PAINT
- 5E PAINT EXISTING CEILING
- 6D PROVIDE LAV
- 6E PROVIDE TOILET & PARTITION
- 6F PROVIDE URINAL & SCREEN
- 7A REMOVE TACK BOARDS. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7B REMOVE BULLETIN BOARD. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7C EXISTING DISPLAY CASES TO REMAIN IN PLACE. PAINT INTERIOR TO MATCH CORRIDOR COLOR. PAINT TRIM TO MATCH DOOR TRIM COLOR.

drawing title
SECOND FLOOR -
NORTH PARTIAL PLANS

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	
	1/21/19	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

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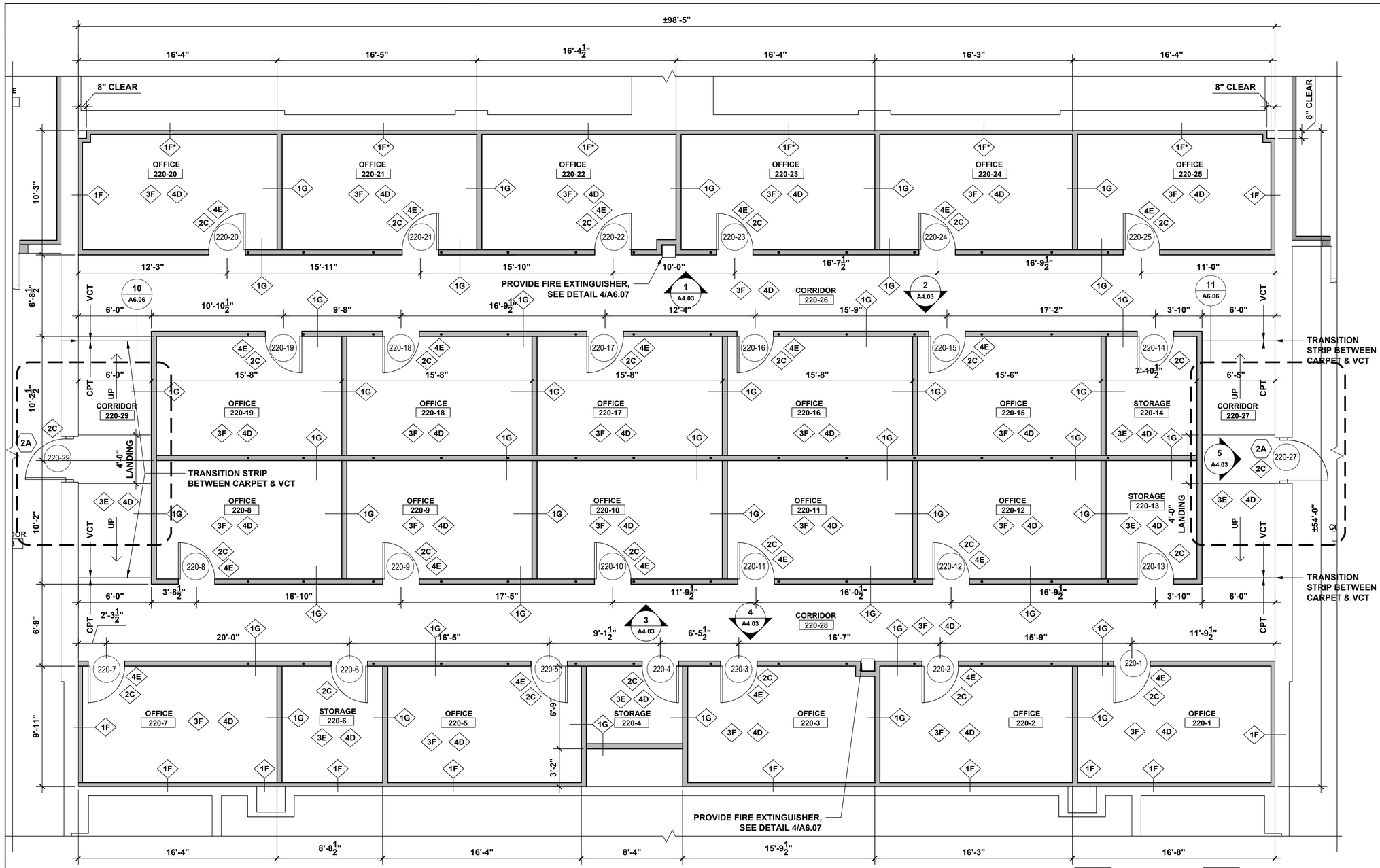
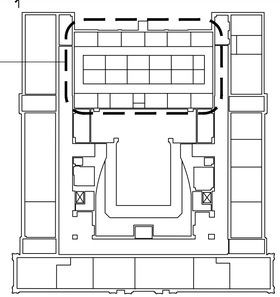


1 NORTH CENTER PARTIAL PLAN

0 2 4 8



KEY PLAN

GENERAL NOTES

1. SEE DWG A6.07 FOR PARTITION TYPES.
2. CENTER ALL WEST TO EAST WALLS ON EXISTING ROD STRUCTURE.

DEMOLITION KEY NOTES

- 1A REMOVE MASONRY WALL.
- 1B REMOVE STUD AND GYP BD WALL.
- 2A REMOVE DOOR AND FRAME.
- 2B REMOVE DOOR. EXISTING FRAME TO REMAIN.
- 3A REMOVE C.T. FLOOR.
- 3B REMOVE VCT FLOOR.
- 3C REMOVE CARPET.
- 4A REMOVE C.T. WAINSCOT AND BASE.
- 4B REMOVE VINYL BASE
- 5A REMOVE ACT CEILING.
- 6A REMOVE LAV.
- 6B REMOVE TOILET & TOILET PARTITION.
- 6C REMOVE URINAL AND URINAL SCREEN.

NEW WORK KEY NOTES

- 1C PROVIDE MASONRY WALL.
- 1D PROVIDE 1 HOUR RATED WALL, 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 1E PROVIDE ⅝" MOISTURE RESISTANT GYP BD ON EXISTING STUDS.
- 1F PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD ONE SIDE
- 1G PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 2C PROVIDE WOOD DOOR AND HM FRAME.
- 2D PROVIDE WOOD DOOR IN EXISTING HM FRAME.
- 3D PROVIDE CT FLOOR AND CT BASE.
- 3E PROVIDE VCT AND RESILIENT BASE.
- 3F PROVIDE CARPET AND RESILIENT BASE.
- 3G EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)
- 4C PROVIDE CT WAINSCOT AND BASE/ PAINT ABOVE
- 4D PREP AND PAINT WALLS
- 4E PROVIDE HORIZONTAL WINDOW BLINDS
- 5B PROVIDE ACT CEILING.
- 5C REMOVE & REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.
- 5D PROVIDE GYPSUM BOARD CEILING/SOFFIT AND PAINT
- 5E PAINT EXISTING CEILING
- 6D PROVIDE LAV
- 6E PROVIDE TOILET & PARTITION
- 6F PROVIDE URINAL & SCREEN
- 7A REMOVE TACK BOARDS. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7B REMOVE BULLETIN BOARD. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7C EXISTING DISPLAY CASES TO REMAIN IN PLACE. PAINT INTERIOR TO MATCH CORRIDOR COLOR. PAINT TRIM TO MATCH DOOR TRIM COLOR.

drawing title: SECOND FLOOR - NORTH CENTER PARTIAL PLAN

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by: AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

project: WESTERN CT STATE UNIVERSITY
WHITE HALL
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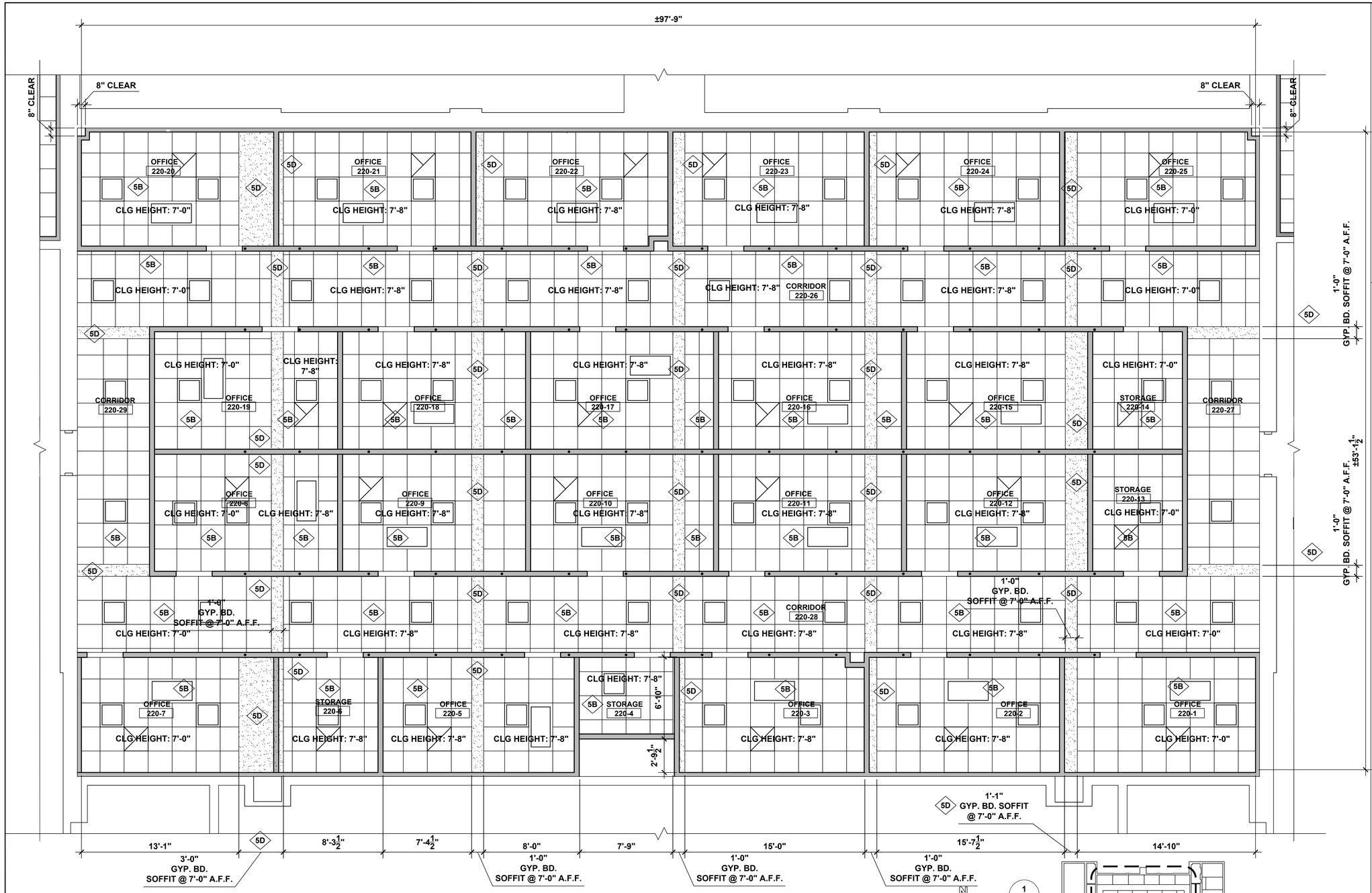

1 NORTH CENTER PARTIAL PLAN

KEY PLAN

CEILING LEGEND

- 2 x 2 SUSPENDED CEILING
- GYPSUM BOARD CEILING, PAINTED
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- RECESSED FLUORESCENT LUMINAIRE

REFLECTED CEILING NOTES

1. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND FIXTURE DESCRIPTIONS OF LIGHTING, SUPPLY/RETURN DIFFUSERS, AND RADIANT CEILING HEATING PANELS.

2. REFER TO MECHANICAL PLANS FOR DUCT PENETRATIONS AT CORRIDOR WALLS. COORDINATE SIZE OF OPENINGS TO ACCOMMODATE FIRE DAMPERS SHOWN ON DETAIL 5/M3.01.

3. INFILL MASONRY WALL WHERE EXISTING DUCTS REMOVED. SEE MASONRY INFILL DETAIL. ON A1.05

DEMOLITION KEY NOTES

- 1A REMOVE MASONRY WALL.
- 1B REMOVE STUD AND GYP BD WALL.
- 2A REMOVE DOOR AND FRAME.
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- 3C REMOVE CARPET.
- 4A REMOVE C.T. WAINSCOT AND BASE.
- 4B REMOVE VINYL BASE
- 5A REMOVE ACT CEILING.
- 6A REMOVE LAV.
- 6B REMOVE TOILET & TOILET PARTITION.
- 6C REMOVE URINAL AND URINAL SCREEN.

NEW WORK KEY NOTES

- 1C PROVIDE MASONRY WALL.
- 1D PROVIDE 1 HOUR RATED WALL, 3 5/8" METAL STUDS WITH 5/8" TYPE 'X' GYP. BOARD BOTH SIDES
- 1E PROVIDE 5/8" MOISTURE RESISTANT GYP BD ON EXISTING STUDS.
- 1F PROVIDE 3 5/8" METAL STUDS WITH 5/8" TYPE 'X' GYP. BOARD ONE SIDE
- 1G PROVIDE 3 5/8" METAL STUDS WITH 5/8" TYPE 'X' GYP. BOARD BOTH SIDES
- 2C PROVIDE WOOD DOOR AND HM FRAME.
- 2D PROVIDE WOOD DOOR IN EXISTING HM FRAME.
- 3D PROVIDE CT FLOOR AND CT BASE.
- 3E PROVIDE VCT AND RESILIENT BASE.
- 3F PROVIDE CARPET AND RESILIENT BASE.
- 3G EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)
- 4C PROVIDE CT WAINSCOT AND BASE/ PAINT ABOVE
- 4D PREP AND PAINT WALLS
- 4E PROVIDE HORIZONTAL WINDOW BLINDS
- 5B PROVIDE ACT CEILING.
- 5C REMOVE & REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.
- 5D PROVIDE GYPSUM BOARD CEILING/SOFFIT AND PAINT
- 5E PAINT EXISTING CEILING
- 6D PROVIDE LAV
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- 6F PROVIDE URINAL & SCREEN
- 7A REMOVE TACK BOARDS. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7B REMOVE BULLETIN BOARD. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7C EXISTING DISPLAY CASES TO REMAIN IN PLACE. PAINT INTERIOR TO MATCH CORRIDOR COLOR. PAINT TRIM TO MATCH DOOR TRIM COLOR.

drawing title
SECOND FLOOR - NORTH CENTER REFLECTED CEILING PLAN

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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

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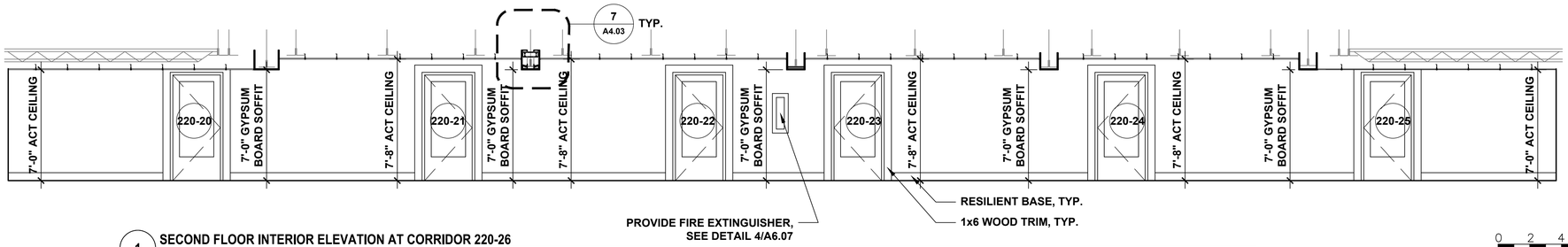

1 SECOND FLOOR INTERIOR ELEVATION AT CORRIDOR 220-26

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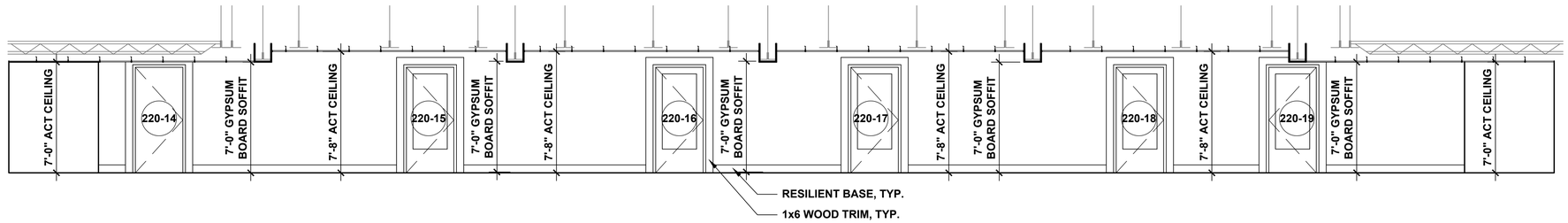
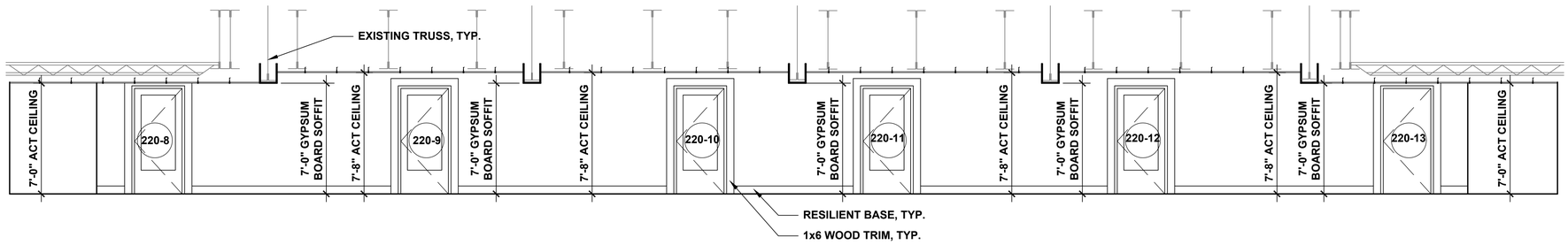


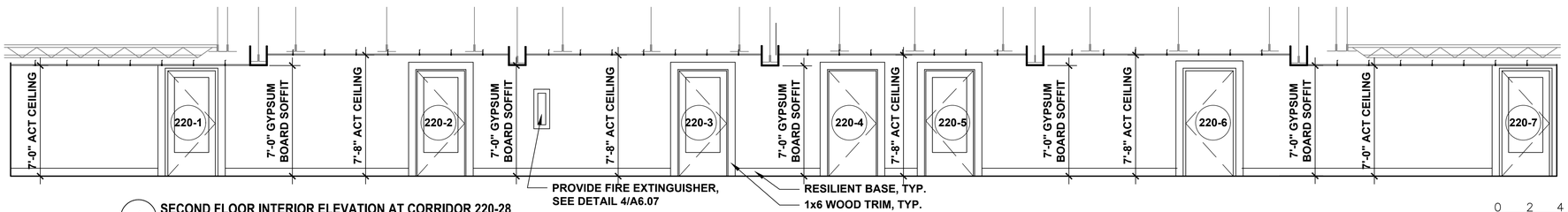
2 SECOND FLOOR INTERIOR ELEVATION AT CORRIDOR 220-26

0 2 4 8



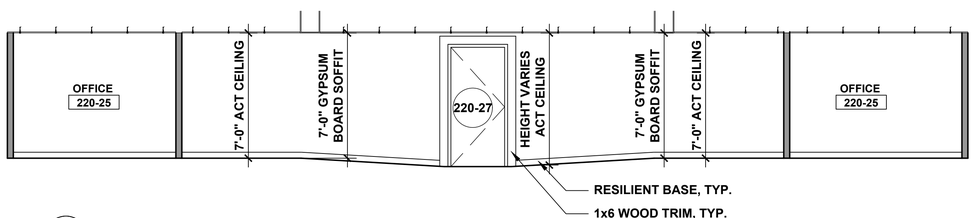
3 SECOND FLOOR INTERIOR ELEVATION AT CORRIDOR 220-28

0 2 4 8



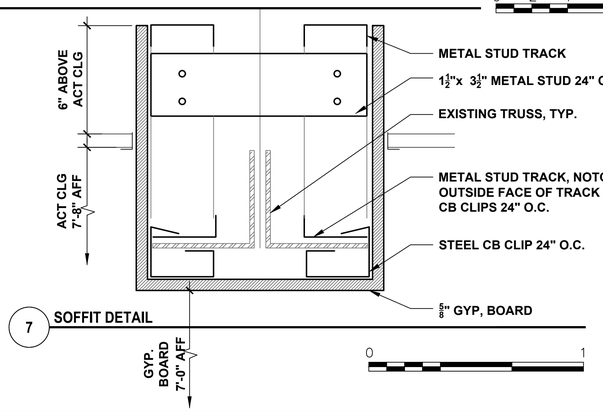
4 SECOND FLOOR INTERIOR ELEVATION AT CORRIDOR 220-28

0 2 4 8



5 SECOND FLOOR INTERIOR ELEVATION AT CORRIDOR 220-27
SECOND FLOOR INTERIOR ELEVATION AT CORRIDOR 220-29 SIMILAR

0 2 4 8



7 SOFFIT DETAIL

0 1

DEMOLITION KEY NOTES

- 1A REMOVE MASONRY WALL.
- 1B REMOVE STUD AND GYP BD WALL.
- 2A REMOVE DOOR AND FRAME.
- 2B REMOVE DOOR. EXISTING FRAME TO REMAIN.
- 3A REMOVE C.T. FLOOR.
- 3B REMOVE VCT FLOOR.
- 3C REMOVE CARPET.
- 4A REMOVE C.T. WAINSCOT AND BASE.
- 4B REMOVE VINYL BASE
- 5A REMOVE ACT CEILING.
- 6A REMOVE LAV.
- 6B REMOVE TOILET & TOILET PARTITION.
- 6C REMOVE URINAL AND URINAL SCREEN.

NEW WORK KEY NOTES

- 1C PROVIDE MASONRY WALL.
- 1D PROVIDE 1 HOUR RATED WALL, 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 1E PROVIDE ⅝" MOISTURE RESISTANT GYP BD ON EXISTING STUDS.
- 1F PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD ONE SIDE
- 1G PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 2C PROVIDE WOOD DOOR AND HM FRAME.
- 2D PROVIDE WOOD DOOR IN EXISTING HM FRAME.
- 3D PROVIDE CT FLOOR AND CT BASE.
- 3E PROVIDE VCT AND RESILIENT BASE.
- 3F PROVIDE CARPET AND RESILIENT BASE.
- 3G EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)
- 4C PROVIDE CT WAINSCOT AND BASE/ PAINT ABOVE
- 4D PREP AND PAINT WALLS
- 4E PROVIDE HORIZONTAL WINDOW BLINDS
- 5B PROVIDE ACT CEILING.
- 5C REMOVE & REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.
- 5D PROVIDE GYPSUM BOARD CEILING/SOFFIT AND PAINT
- 5E PAINT EXISTING CEILING
- 6D PROVIDE LAV
- 6E PROVIDE TOILET & PARTITION
- 6F PROVIDE URINAL & SCREEN
- 7A REMOVE TACK BOARDS. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7B REMOVE BULLETIN BOARD. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7C EXISTING DISPLAY CASES TO REMAIN IN PLACE. PAINT INTERIOR TO MATCH CORRIDOR COLOR. PAINT TRIM TO MATCH DOOR TRIM COLOR.

drawing title
SECOND FLOOR - INTERIOR ELEVATIONS

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18 5/23/18 7/25/18	CONSTRUCTION DOCUMENTS

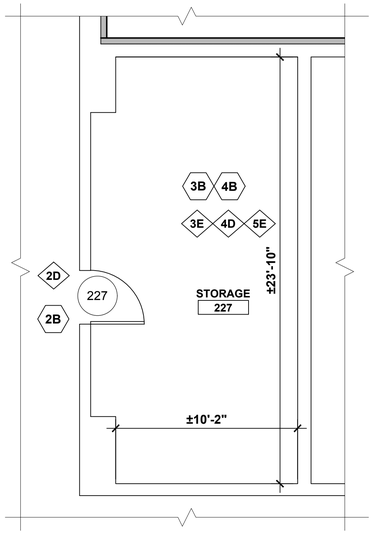
STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

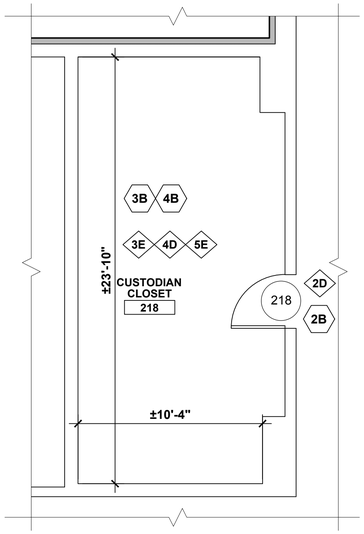
project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no. BI-RD-299

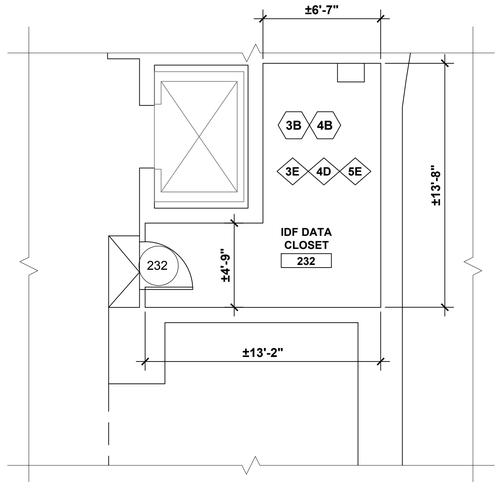
date 07/25/18
scale AS NOTED
drawn by CA/SP
approved by AL
drawing no. **A4.03**



3 NORTHWEST PARTIAL PLAN AT STORAGE ROOM 0 2 4 8



4 NORTHEAST CORNER PARTIAL PLAN AT STORAGE ROOM 0 2 4 8



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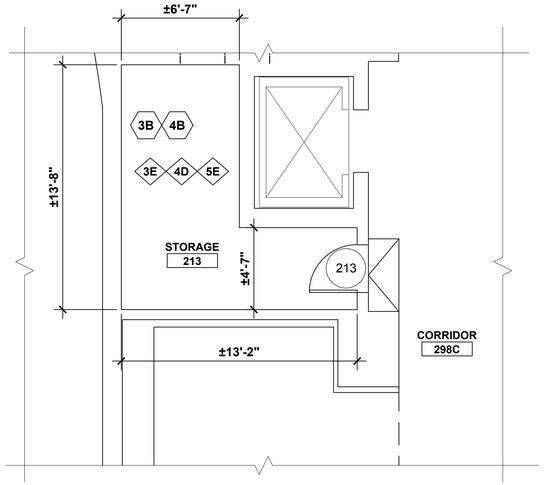
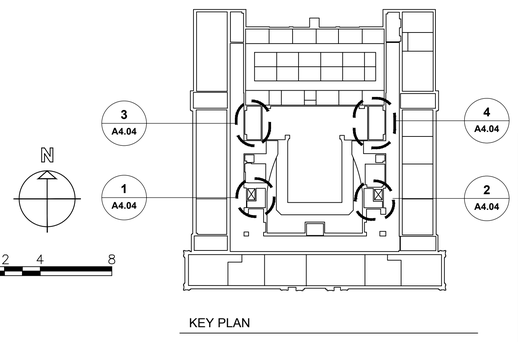


2 SOUTHEAST CORNER PARTIAL PLAN AT STORAGE ROOM 0 2 4 8



KEY PLAN

DEMOLITION KEY NOTES

- 1A REMOVE MASONRY WALL.
- 1B REMOVE STUD AND GYP BD WALL.
- 2A REMOVE DOOR AND FRAME.
- 2B REMOVE DOOR. EXISTING FRAME TO REMAIN.
- 3A REMOVE C.T. FLOOR.
- 3B REMOVE VCT FLOOR.
- 3C REMOVE CARPET.
- 4A REMOVE C.T. WAINSCOT AND BASE.
- 4B REMOVE VINYL BASE
- 5A REMOVE ACT CEILING.
- 6A REMOVE LAV.
- 6B REMOVE TOILET & TOILET PARTITION.
- 6C REMOVE URINAL AND URINAL SCREEN.

NEW WORK KEY NOTES

- 1C PROVIDE MASONRY WALL.
- 1D PROVIDE 1 HOUR RATED WALL, 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 1E PROVIDE ⅝" MOISTURE RESISTANT GYP BD ON EXISTING STUDS.
- 1F PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD ONE SIDE
- 1G PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 2C PROVIDE WOOD DOOR AND HM FRAME.
- 2D PROVIDE WOOD DOOR IN EXISTING HM FRAME.
- 3D PROVIDE CT FLOOR AND CT BASE.
- 3E PROVIDE VCT AND RESILIENT BASE.
- 3F PROVIDE CARPET AND RESILIENT BASE.
- 3G EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)
- 4C PROVIDE CT WAINSCOT AND BASE/ PAINT ABOVE
- 4D PREP AND PAINT WALLS
- 4E PROVIDE HORIZONTAL WINDOW BLINDS
- 5B PROVIDE ACT CEILING.
- 5C REMOVE & REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.
- 5D PROVIDE GYPSUM BOARD CEILING/SOFFIT AND PAINT
- 5E PAINT EXISTING CEILING
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- 7C EXISTING DISPLAY CASES TO REMAIN IN PLACE. PAINT INTERIOR TO MATCH CORRIDOR COLOR. PAINT TRIM TO MATCH DOOR TRIM COLOR.

drawing title
SECOND FLOOR - PARTIAL PLANS AT STORAGE ROOMS

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18 5/23/18 7/25/18 1/21/19	CONSTRUCTION DOCUMENTS

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

date 07/25/18
scale AS NOTED
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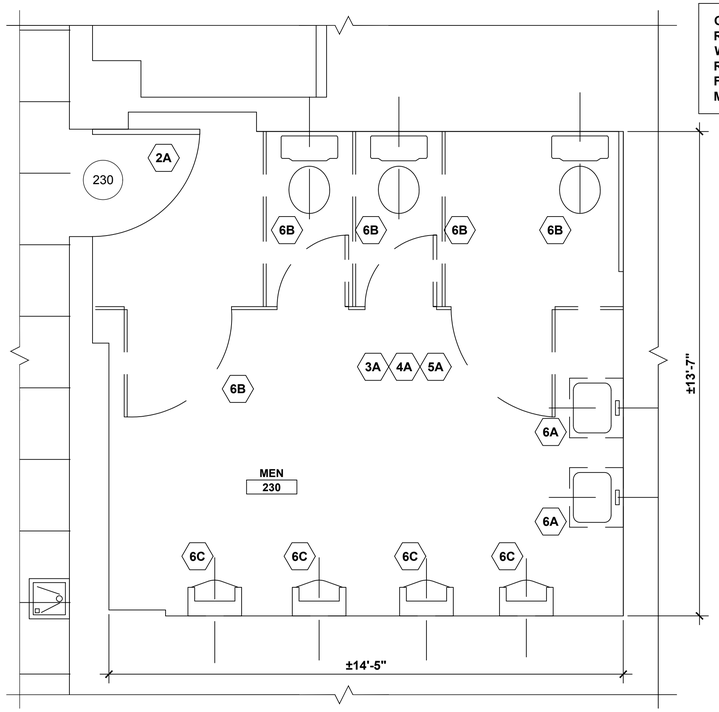
drawing no. A4.04

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

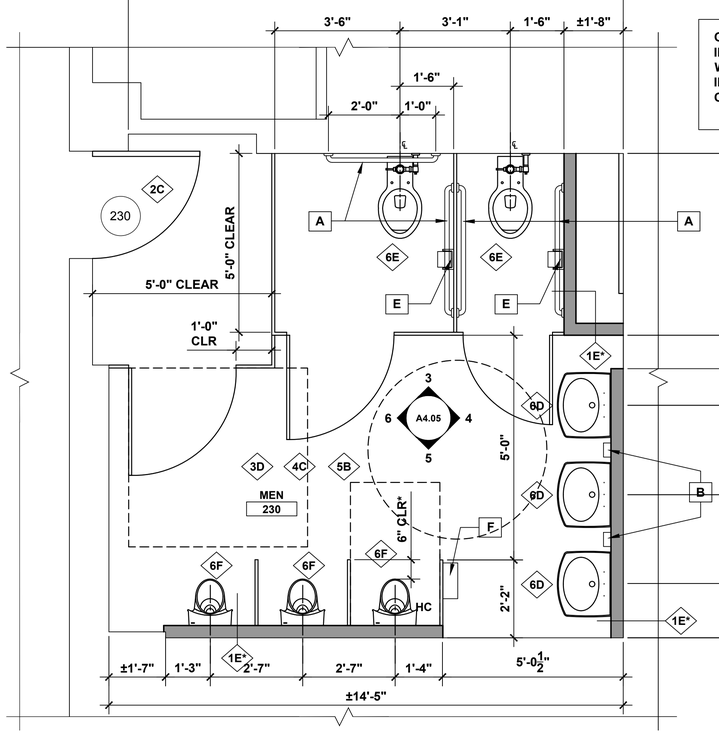
CAD no.
project no. BI-RD-299



GENERAL DEMO NOTE:
REMOVE PORTIONS OF CHASE WALL AS REQUIRED FOR REMOVAL AND INSTALLATION OF FIXTURES. COORDINATE WITH MEP DWGS.

1 MEN'S TOILET ROOM 230 DEMO PLAN

0 1 2 3 4



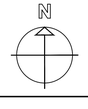
GENERAL NEW WORK NOTE:
INFILL PORTIONS OF CHASE WALL AS REQUIRED FOR INSTALLATION OF FIXTURES. COORDINATE WITH MEP DWGS.

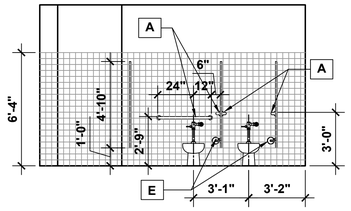
*LAVATORY BASIS OF DESIGN:
KOHLER 2035-4
SEE PLUMBING FIXTURE SCHEDULE, DWG P3.00

*URINAL BASIS OF DESIGN:
KOHLER K-4918-0
SEE PLUMBING FIXTURE SCHEDULE, DWG P3.00

2 MEN'S TOILET ROOM 230 NEW WORK PLAN

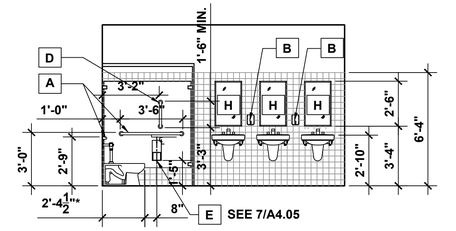
0 1 2 3 4





3 MEN'S TOILET ROOM 230 NORTH ELEVATION

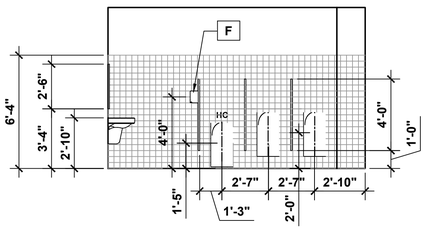
0 2 4 8



* WATER CLOSET BASIS OF DESIGN: KOHLER K-4386-0
SEE PLUMBING FIXTURE SCHEDULE, DWG P3.00

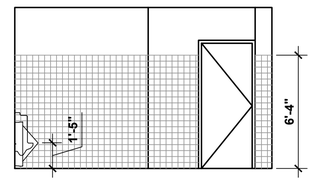
4 MEN'S TOILET ROOM 230 EAST ELEVATION

0 2 4 8



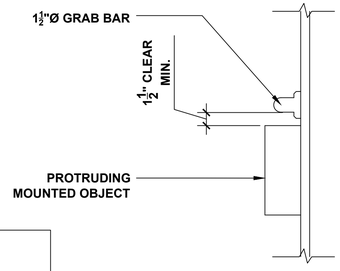
5 MEN'S TOILET ROOM 230 SOUTH ELEVATION

0 2 4 8



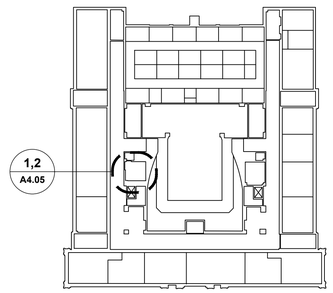
6 MEN'S TOILET ROOM 230 WEST ELEVATION

0 2 4 8



7 DETAIL AT GRAB BARS

0 1 2



KEY PLAN

TOILET ACCESSORY KEYNOTES

- A GRAB BARS- 36" & 42" LENGTHS
  MOUNTING HEIGHTS AT 33" AND 36"
  TO TOP OF GRIPPING SURFACE
- B WALL MOUNTED SOAP DISPENSER
  MOUNTING HEIGHT - 42" TO CENTER OF NOZZLE, 48" AFF TO CONTROLS MAX.
  - OWNER SUPPLIED, INSTALLED BY CONTRACTOR
- C TRASH RECEPTACLE
  FREE STANDING - BY OWNER
- D VERTICAL GRAB BAR
  MOUNTING HEIGHT - 39" TO BOTTOM OF GRAB BAR
- E TOILET PAPER DISPENSER
  MOUNTING HEIGHT - 17" TO OUTLET OF DISPENSER AFF - 29" TO TOP OF DISPENSER MAX.
  - OWNER SUPPLIED, INSTALLED BY CONTRACTOR
- F PAPER TOWEL DISPENSER
  MOUNTING HEIGHT-48" AT CENTER OF DISPENSED AREA;48" AFF TO CONTROLS MAX. - OWNER SUPPLIED, INSTALLED BY CONTRACTOR
- G SANITARY NAPKIN RECEPTACLE
  MOUNTING HEIGHT - 29" AT TOP OF RECEPTACLE
  - OWNER SUPPLIED, INSTALLED BY CONTRACTOR
- H LAVATORY MIRROR - SIZE: 18"x30"
  MOUNTING HEIGHT - 40" TO BOTTOM OF MIRROR

DEMOLITION KEY NOTES

- 1A REMOVE MASONRY WALL.
- 1B REMOVE STUD AND GYP BD WALL.
- 2A REMOVE DOOR AND FRAME.
- 2B REMOVE DOOR. EXISTING FRAME TO REMAIN.
- 3A REMOVE C.T. FLOOR.
- 3B REMOVE VCT FLOOR.
- 3C REMOVE CARPET.
- 4A REMOVE C.T. WAINSCOT AND BASE.
- 4B REMOVE VINYL BASE
- 5A REMOVE ACT CEILING.
- 6A REMOVE LAV.
- 6B REMOVE TOILET & TOILET PARTITION.
- 6C REMOVE URINAL AND URINAL SCREEN.

NEW WORK KEY NOTES

- 1C PROVIDE MASONRY WALL.
- 1D PROVIDE 1 HOUR RATED WALL, 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 1E PROVIDE ⅝" MOISTURE RESISTANT GYP BD ON EXISTING STUDS.
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- 3G EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)
- 4C PROVIDE CT WAINSCOT AND BASE/ PAINT ABOVE
- 4D PREP AND PAINT WALLS
- 4E PROVIDE HORIZONTAL WINDOW BLINDS
- 5B PROVIDE ACT CEILING.
- 5C REMOVE & REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.
- 5D PROVIDE GYPSUM BOARD CEILING/SOFFIT AND PAINT
- 5E PAINT EXISTING CEILING
- 6D PROVIDE LAV
- 6E PROVIDE TOILET & PARTITION
- 6F PROVIDE URINAL & SCREEN
- 7A REMOVE TACK BOARDS. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7B REMOVE BULLETIN BOARD. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7C EXISTING DISPLAY CASES TO REMAIN IN PLACE. PAINT INTERIOR TO MATCH CORRIDOR COLOR. PAINT TRIM TO MATCH DOOR TRIM COLOR.

drawing title
SECOND FLOOR -
MEN'S TOILET ROOM

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION
	5/23/18	DOCUMENTS
	7/25/18	

STATE OF CONNECTICUT
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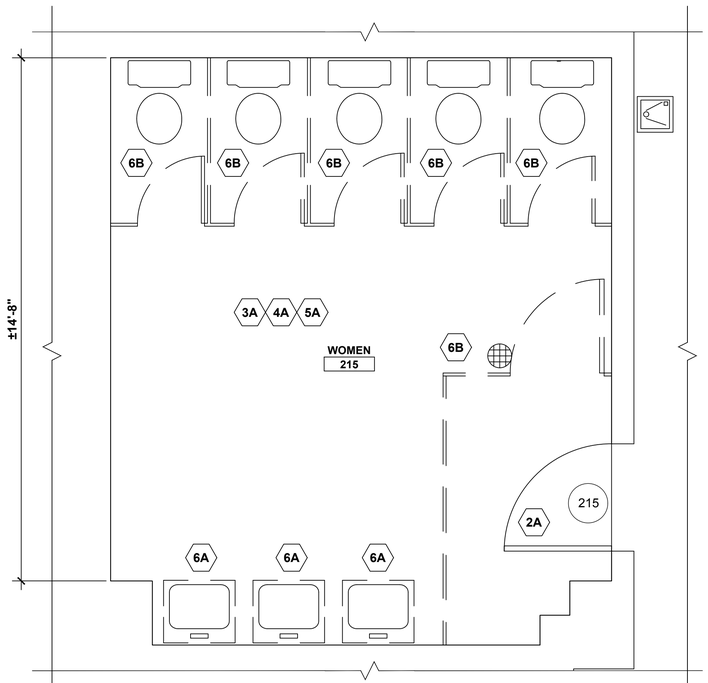
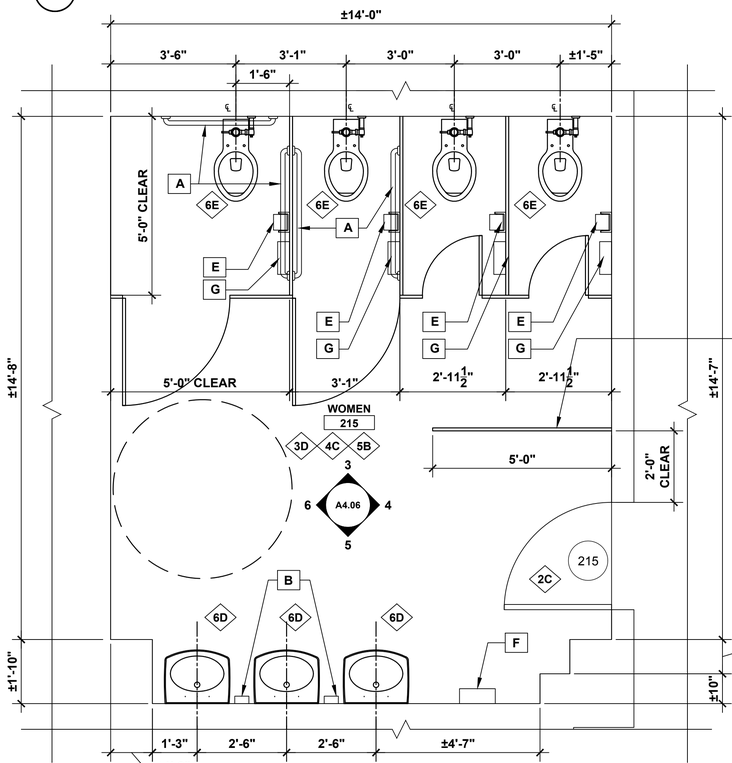
drawing no. A4.05



1 **WOMEN'S TOILET ROOM 215 DEMO PLAN** 0 1 2 3 4

GENERAL DEMO NOTE:
REMOVE PORTIONS OF CHASE WALL AS REQUIRED FOR REMOVAL AND INSTALLATION OF FIXTURES. COORDINATE WITH MEP DWGS.

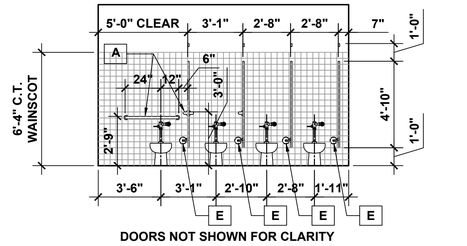


2 **WOMEN'S TOILET ROOM 215 NEW WORK PLAN** 0 1 2 3 4

PROVIDE PRIVACY SCREEN

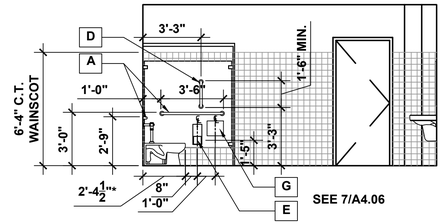
GENERAL NEW WORK NOTE:
INFILL PORTIONS OF CHASE WALL AS REQUIRED FOR INSTALLATION OF FIXTURES. COORDINATE WITH MEP DWGS.

***LAVATORY BASIS OF DESIGN:**
KOHLER 2035-4
SEE PLUMBING FIXTURE SCHEDULE, DWG P3.00



DOORS NOT SHOWN FOR CLARITY

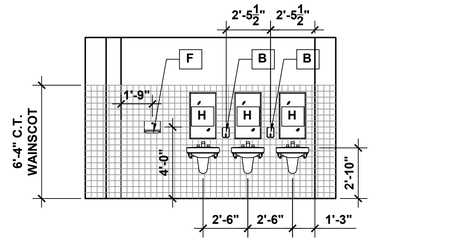
3 **WOMEN'S TOILET ROOM 215 NORTH ELEVATION** 0 2 4 8



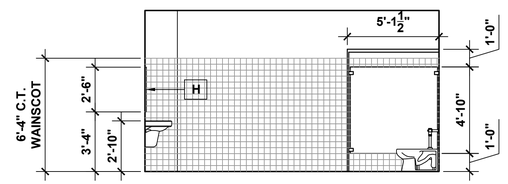
SEE 7/A4.06

*WATER CLOSET BASIS OF DESIGN: KOHLER K-4386-0
SEE PLUMBING FIXTURE SCHEDULE, DWG P3.00

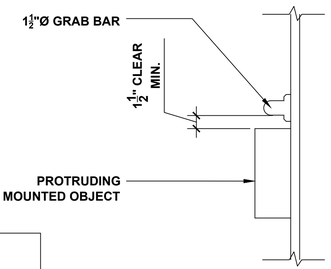
4 **WOMEN'S TOILET ROOM 215 EAST ELEVATION** 0 2 4 8



5 **WOMEN'S TOILET ROOM 215 SOUTH ELEVATION** 0 2 4 8



6 **WOMEN'S TOILET ROOM 215 WEST ELEVATION** 0 2 4 8



7 **DETAIL AT GRAB BARS** 0 1 2

TOILET ACCESSORY KEYNOTES

- **A** GRAB BARS- 36" & 42" LENGTHS
  MOUNTING HEIGHTS AT 33" AND 36"
  TO TOP OF GRIPPING SURFACE
- **B** WALL MOUNTED SOAP DISPENSER
  MOUNTING HEIGHT - 42" TO CENTER OF NOZZLE,
  48" AFF TO CONTROLS MAX.
  - OWNER SUPPLIED, INSTALLED BY CONTRACTOR
- **C** TRASH RECEPTACLE
  FREE STANDING - BY OWNER
- **D** VERTICAL GRAB BAR
  MOUNTING HEIGHT - 39" TO BOTTOM OF GRAB BAR
- **E** TOILET PAPER DISPENSER
  MOUNTING HEIGHT - 17" TO OUTLET OF DISPENSER AFF
  - 29" TO TOP OF DISPENSER MAX.
  - OWNER SUPPLIED, INSTALLED BY CONTRACTOR
- **F** PAPER TOWEL DISPENSER
  MOUNTING HEIGHT-48" AT CENTER OF DISPENSED
  AREA;48" AFF TO CONTROLS MAX. - OWNER SUPPLIED,
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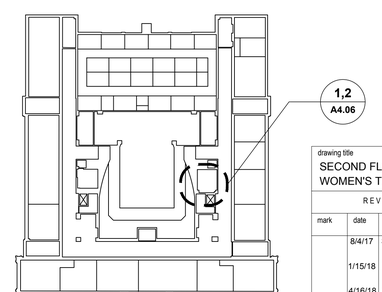
- **G** SANITARY NAPKIN RECEPTACLE
  MOUNTING HEIGHT - 29" AT TOP OF RECEPTACLE
  - OWNER SUPPLIED, INSTALLED BY CONTRACTOR
- **H** LAVATORY MIRROR - SIZE: 18"x30"
  MOUNTING HEIGHT - 40" TO BOTTOM OF MIRROR



KEY PLAN

DEMOLITION KEY NOTES

- **1A** REMOVE MASONRY WALL.
- **1B** REMOVE STUD AND GYP BD WALL.
- **2A** REMOVE DOOR AND FRAME.
- **2B** REMOVE DOOR. EXISTING FRAME TO REMAIN.
- **3A** REMOVE C.T. FLOOR.
- **3B** REMOVE VCT FLOOR.
- **3C** REMOVE CARPET.
- **4A** REMOVE C.T. WAINSCOT AND BASE.
- **4B** REMOVE VINYL BASE
- **5A** REMOVE ACT CEILING.
- **6A** REMOVE LAV.
- **6B** REMOVE TOILET & TOILET PARTITION.
- **6C** REMOVE URINAL AND URINAL SCREEN.

NEW WORK KEY NOTES

- **1C** PROVIDE MASONRY WALL.
- **1D** PROVIDE 1 HOUR RATED WALL, 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- **1E** PROVIDE ⅝" MOISTURE RESISTANT GYP BD ON EXISTING STUDS.
- **1F** PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD ONE SIDE
- **1G** PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- **2C** PROVIDE WOOD DOOR AND HM FRAME.
- **2D** PROVIDE WOOD DOOR IN EXISTING HM FRAME.
- **3D** PROVIDE CT FLOOR AND CT BASE.
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- **3F** PROVIDE CARPET AND RESILIENT BASE.
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- **4C** PROVIDE CT WAINSCOT AND BASE/ PAINT ABOVE
- **4D** PREP AND PAINT WALLS
- **4E** PROVIDE HORIZONTAL WINDOW BLINDS
- **5B** PROVIDE ACT CEILING.
- **5C** REMOVE & REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.
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- **5E** PAINT EXISTING CEILING
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- **7A** REMOVE TACK BOARDS. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- **7B** REMOVE BULLETIN BOARD. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- **7C** EXISTING DISPLAY CASES TO REMAIN IN PLACE. PAINT INTERIOR TO MATCH CORRIDOR COLOR. PAINT TRIM TO MATCH DOOR TRIM COLOR.

drawing title
SECOND FLOOR -
WOMEN'S TOILET ROOM

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	

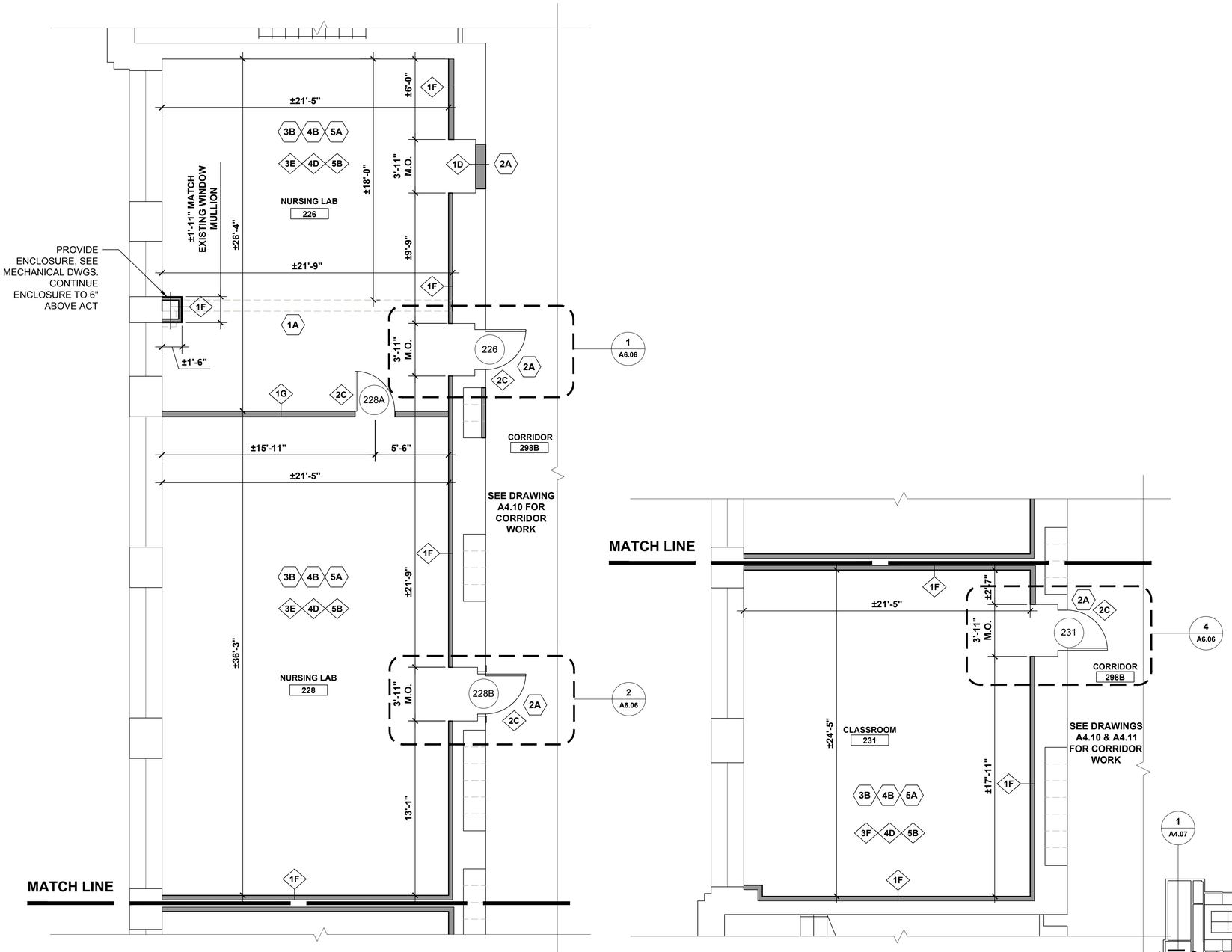
STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

date 07/25/18
scale AS NOTED
drawn by SP/CA
approved by AL
drawing no. **A4.06**

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no. BI-RD-299



1 WEST CENTER PARTIAL PLAN

0 2 4 8

N

DEMOLITION KEY NOTES

- 1A REMOVE MASONRY WALL.
- 1B REMOVE STUD AND GYP BD WALL.
- 2A REMOVE DOOR AND FRAME.
- 2B REMOVE DOOR. EXISTING FRAME TO REMAIN.
- 3A REMOVE C.T. FLOOR.
- 3B REMOVE VCT FLOOR.
- 3C REMOVE CARPET.
- 4A REMOVE C.T. WAINSCOT AND BASE.
- 4B REMOVE VINYL BASE
- 5A REMOVE ACT CEILING.
- 6A REMOVE LAV.
- 6B REMOVE TOILET & TOILET PARTITION.
- 6C REMOVE URINAL AND URINAL SCREEN.

NEW WORK KEY NOTES

- 1C PROVIDE MASONRY WALL.
- 1D PROVIDE 1 HOUR RATED WALL, 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 1E PROVIDE ⅝" MOISTURE RESISTANT GYP BD ON EXISTING STUDS.
- 1F PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD ONE SIDE
- 1G PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 2C PROVIDE WOOD DOOR AND HM FRAME.
- 2D PROVIDE WOOD DOOR IN EXISTING HM FRAME.
- 3D PROVIDE CT FLOOR AND CT BASE.
- 3E PROVIDE VCT AND RESILIENT BASE.
- 3F PROVIDE CARPET AND RESILIENT BASE.
- 3G EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)
- 4C PROVIDE CT WAINSCOT AND BASE/ PAINT ABOVE
- 4D PREP AND PAINT WALLS
- 4E PROVIDE HORIZONTAL WINDOW BLINDS
- 5B PROVIDE ACT CEILING.
- 5C REMOVE & REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.
- 5D PROVIDE GYPSUM BOARD CEILING/SOFFIT AND PAINT
- 5E PAINT EXISTING CEILING
- 6D PROVIDE LAV
- 6E PROVIDE TOILET & PARTITION
- 6F PROVIDE URINAL & SCREEN
- 7A REMOVE TACK BOARDS. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7B REMOVE BULLETIN BOARD. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7C EXISTING DISPLAY CASES TO REMAIN IN PLACE. PAINT INTERIOR TO MATCH CORRIDOR COLOR. PAINT TRIM TO MATCH DOOR TRIM COLOR.

drawing title
2ND FLOOR -
WEST CENTER PARTIAL PLAN

REVISIONS

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	1/15/18	DESIGN DEVELOPMENT SUBMISSION
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	1/21/19	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

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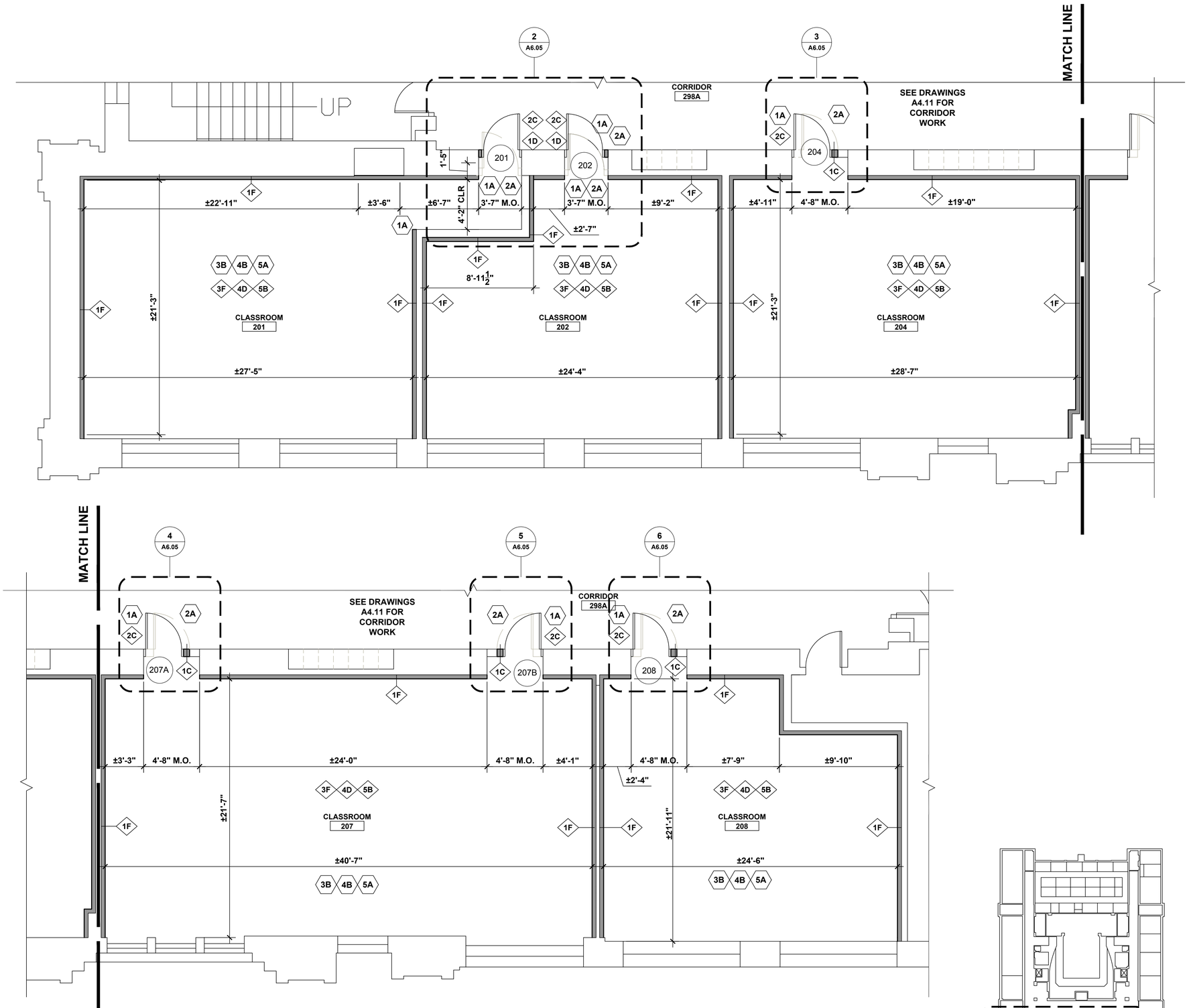

1 SOUTHWEST CORNER PARTIAL PLAN

0 2 4 8

N

1 A4.08 KEY PLAN

DEMOLITION KEY NOTES

- 1A REMOVE MASONRY WALL.
- 1B REMOVE STUD AND GYP BD WALL.
- 2A REMOVE DOOR AND FRAME.
- 2B REMOVE DOOR. EXISTING FRAME TO REMAIN.
- 3A REMOVE C.T. FLOOR.
- 3B REMOVE VCT FLOOR.
- 3C REMOVE CARPET.
- 4A REMOVE C.T. WAINSCOT AND BASE.
- 4B REMOVE VINYL BASE
- 5A REMOVE ACT CEILING.
- 6A REMOVE LAV.
- 6B REMOVE TOILET & TOILET PARTITION.
- 6C REMOVE URINAL AND URINAL SCREEN.

NEW WORK KEY NOTES

- 1C PROVIDE MASONRY WALL.
- 1D PROVIDE 1 HOUR RATED WALL, 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 1E PROVIDE ⅝" MOISTURE RESISTANT GYP BD ON EXISTING STUDS.
- 1F PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD ONE SIDE
- 1G PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 2C PROVIDE WOOD DOOR AND HM FRAME.
- 2D PROVIDE WOOD DOOR IN EXISTING HM FRAME.
- 3D PROVIDE CT FLOOR AND CT BASE.
- 3E PROVIDE VCT AND RESILIENT BASE.
- 3F PROVIDE CARPET AND RESILIENT BASE.
- 3G EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)
- 4C PROVIDE CT WAINSCOT AND BASE/ PAINT ABOVE
- 4D PREP AND PAINT WALLS
- 4E PROVIDE HORIZONTAL WINDOW BLINDS
- 5B PROVIDE ACT CEILING.
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- 5D PROVIDE GYPSUM BOARD CEILING/SOFFIT AND PAINT
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- 7C EXISTING DISPLAY CASES TO REMAIN IN PLACE. PAINT INTERIOR TO MATCH CORRIDOR COLOR. PAINT TRIM TO MATCH DOOR TRIM COLOR.

drawing title
SECOND FLOOR - SOUTHWEST CORNER PARTIAL PLAN

REVISIONS

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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

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WESTERN CT STATE UNIVERSITY
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2ND AND 3RD FLOOR RENOVATIONS
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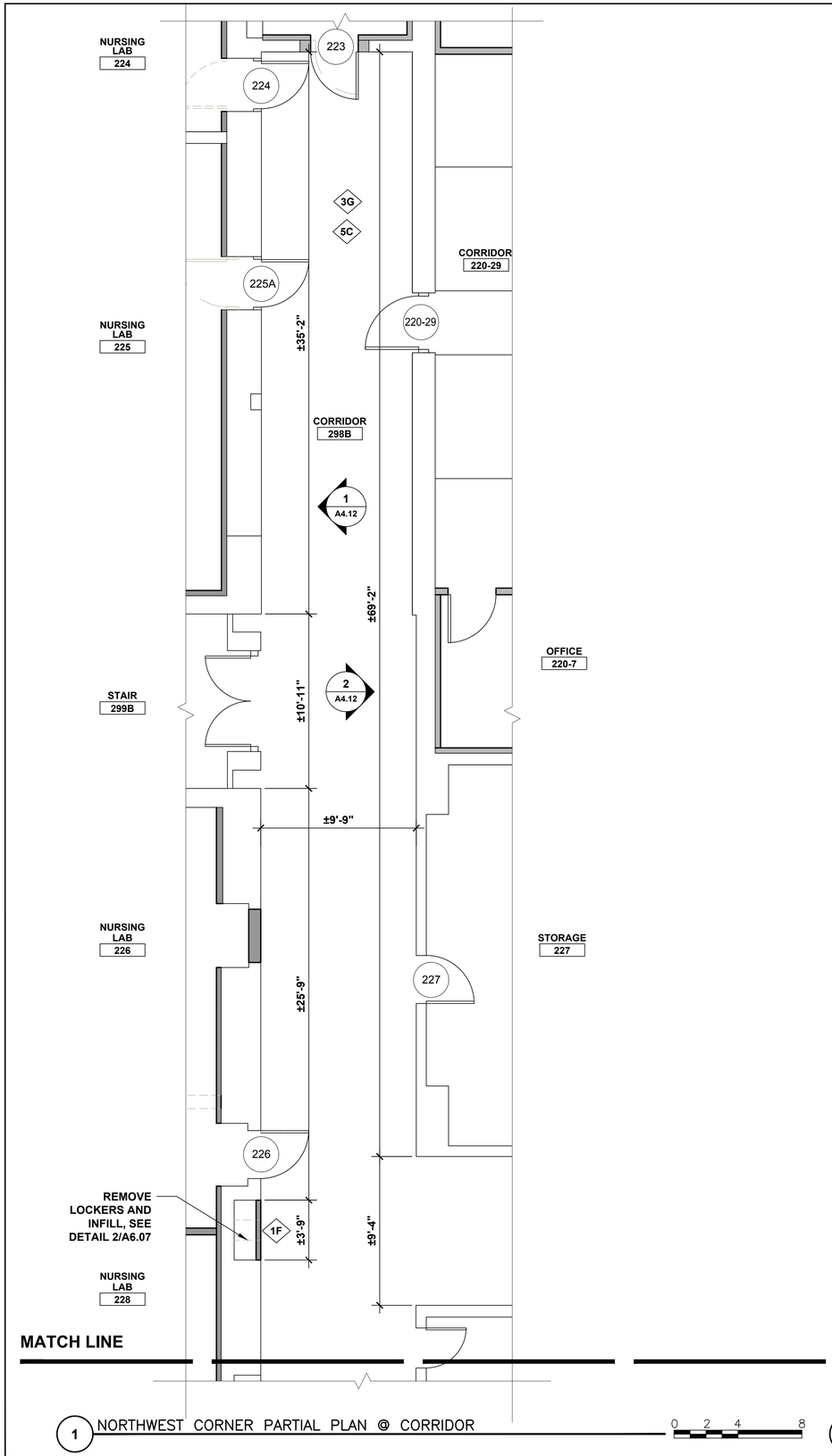

1 NORTHWEST CORNER PARTIAL PLAN @ CORRIDOR

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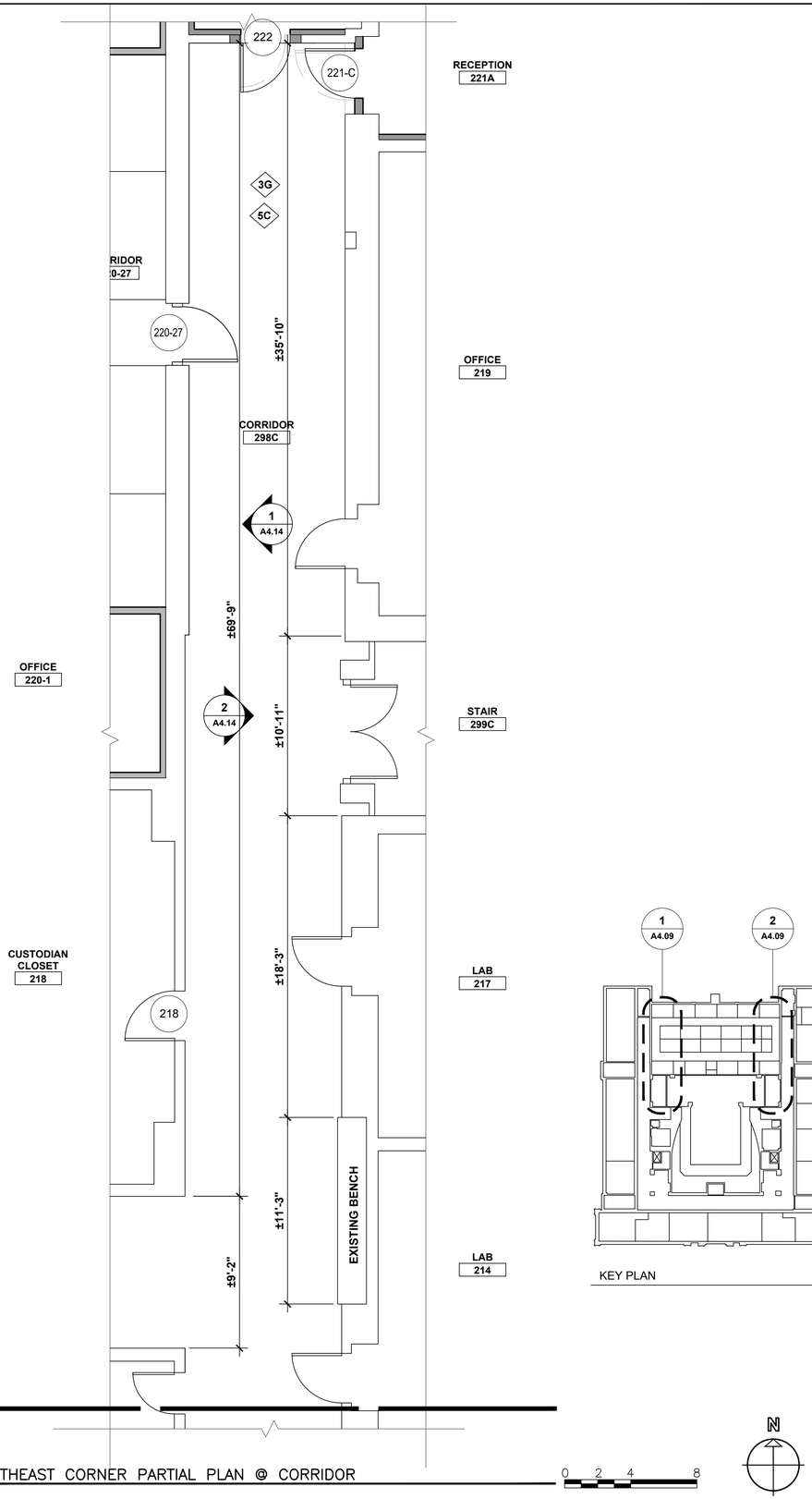

2 NORTHEAST CORNER PARTIAL PLAN @ CORRIDOR

0 2 4 8

KEY PLAN

DEMOLITION KEY NOTES

- 1A REMOVE MASONRY WALL.
- 1B REMOVE STUD AND GYP BD WALL.
- 2A REMOVE DOOR AND FRAME.
- 2B REMOVE DOOR. EXISTING FRAME TO REMAIN.
- 3A REMOVE C.T. FLOOR.
- 3B REMOVE VCT FLOOR.
- 3C REMOVE CARPET.
- 4A REMOVE C.T. WAINSCOT AND BASE.
- 4B REMOVE VINYL BASE
- 5A REMOVE ACT CEILING.
- 6A REMOVE LAV.
- 6B REMOVE TOILET & TOILET PARTITION.
- 6C REMOVE URINAL AND URINAL SCREEN.

NEW WORK KEY NOTES

- 1C PROVIDE MASONRY WALL.
- 1D PROVIDE 1 HOUR RATED WALL, 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 1E PROVIDE ⅝" MOISTURE RESISTANT GYP BD ON EXISTING STUDS.
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- 2C PROVIDE WOOD DOOR AND HM FRAME.
- 2D PROVIDE WOOD DOOR IN EXISTING HM FRAME.
- 3D PROVIDE CT FLOOR AND CT BASE.
- 3E PROVIDE VCT AND RESILIENT BASE.
- 3F PROVIDE CARPET AND RESILIENT BASE.
- 3G EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)
- 4C PROVIDE CT WAINSCOT AND BASE/ PAINT ABOVE
- 4D PREP AND PAINT WALLS
- 4E PROVIDE HORIZONTAL WINDOW BLINDS
- 5B PROVIDE ACT CEILING.
- 5C REMOVE & REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.
- 5D PROVIDE GYPSUM BOARD CEILING/SOFFIT AND PAINT
- 5E PAINT EXISTING CEILING
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drawing title
SECOND FLOOR - PARTIAL PLANS AT CORRIDOR

REVISIONS

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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

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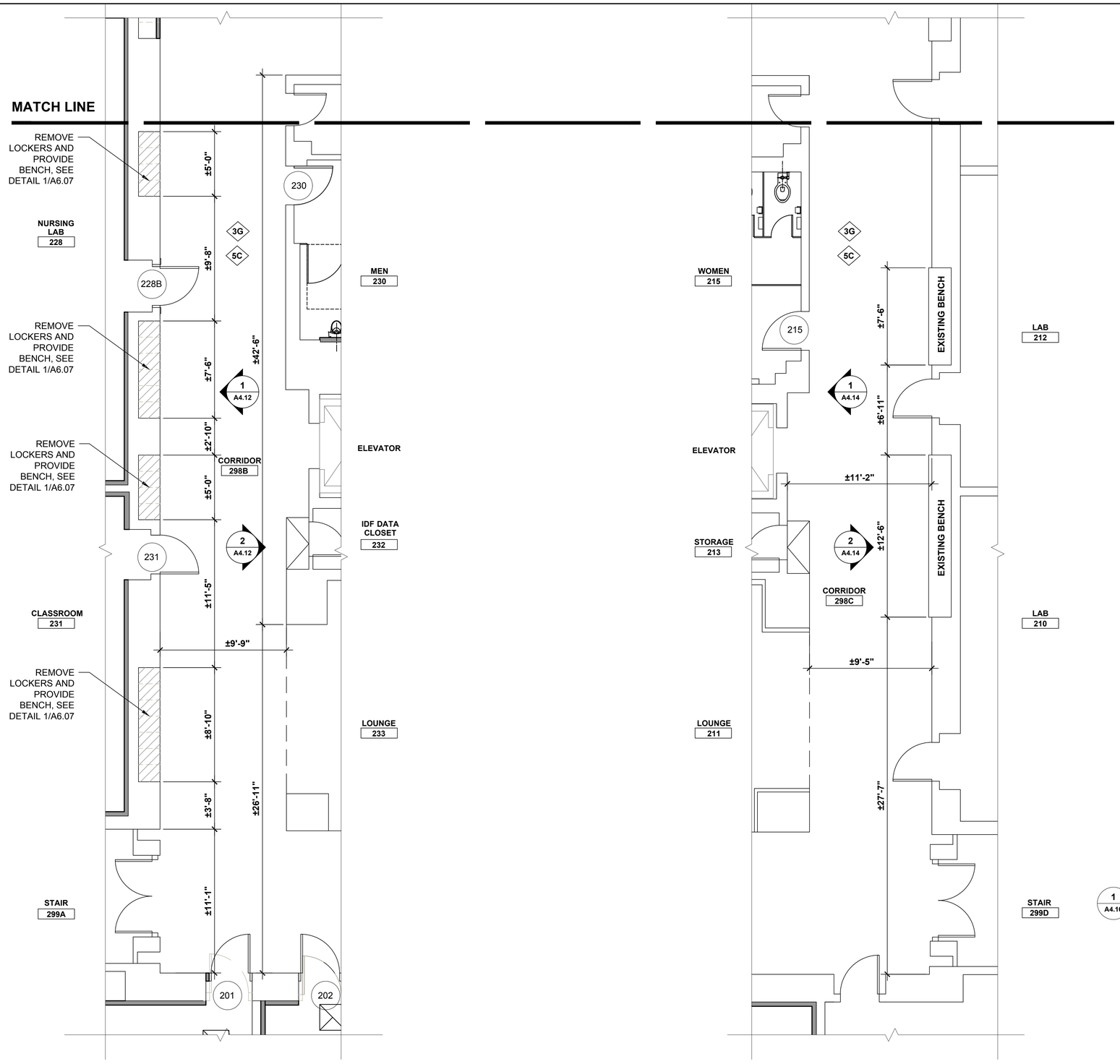

1 SOUTHHWEST CORNER PARTIAL PLAN @ CORRIDOR

0 2 4 8

2 SOUTHEAST CORNER PARTIAL PLAN @ CORRIDOR

0 2 4 8

DEMOLITION KEY NOTES

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- 3B REMOVE VCT FLOOR.
- 3C REMOVE CARPET.
- 4A REMOVE C.T. WAINSCOT AND BASE.
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NEW WORK KEY NOTES

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- 2D PROVIDE WOOD DOOR IN EXISTING HM FRAME.
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drawing title
SECOND FLOOR - PARTIAL PLANS AT CORRIDOR

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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
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project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

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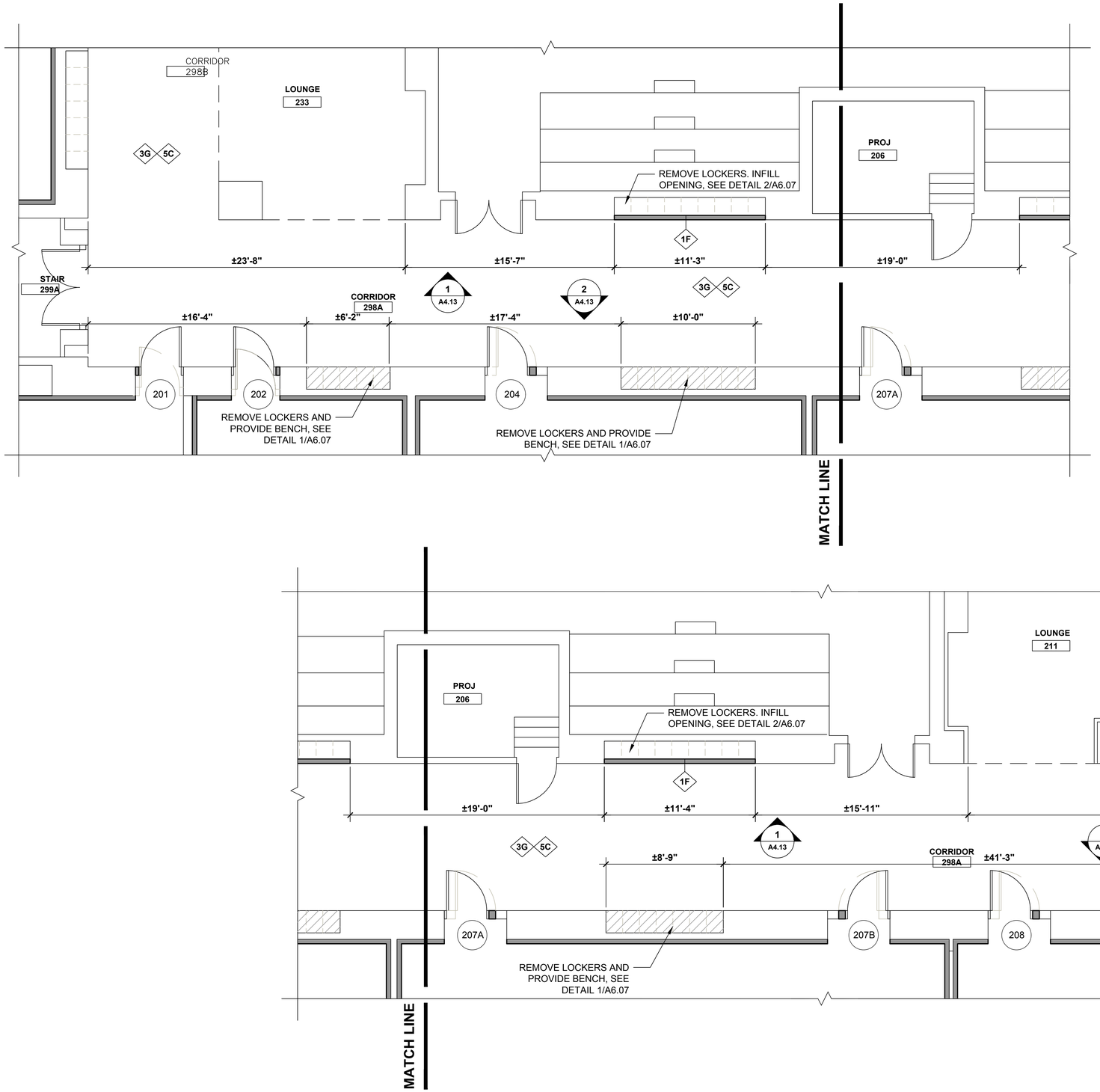
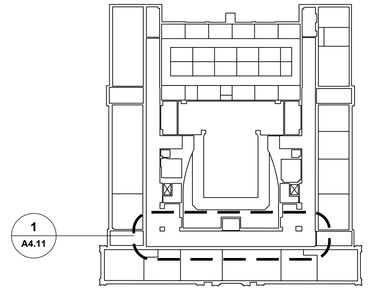


1 SOUTH WING PARTIAL PLAN AT CORRIDOR

0 2 4 8



KEY PLAN

DEMOLITION KEY NOTES

- 1A REMOVE MASONRY WALL.
- 1B REMOVE STUD AND GYP BD WALL.
- 2A REMOVE DOOR AND FRAME.
- 2B REMOVE DOOR. EXISTING FRAME TO REMAIN.
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- 3B REMOVE VCT FLOOR.
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- 4A REMOVE C.T. WAINSCOT AND BASE.
- 4B REMOVE VINYL BASE
- 5A REMOVE ACT CEILING.
- 6A REMOVE LAV.
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- 6C REMOVE URINAL AND URINAL SCREEN.

NEW WORK KEY NOTES

- 1C PROVIDE MASONRY WALL.
- 1D PROVIDE 1 HOUR RATED WALL, 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 1E PROVIDE ⅝" MOISTURE RESISTANT GYP BD ON EXISTING STUDS.
- 1F PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD ONE SIDE
- 1G PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 2C PROVIDE WOOD DOOR AND HM FRAME.
- 2D PROVIDE WOOD DOOR IN EXISTING HM FRAME.
- 3D PROVIDE CT FLOOR AND CT BASE.
- 3E PROVIDE VCT AND RESILIENT BASE.
- 3F PROVIDE CARPET AND RESILIENT BASE.
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drawing title
SECOND FLOOR -
PARTIAL PLANS AT CORRIDOR

REVISIONS

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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

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AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
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WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

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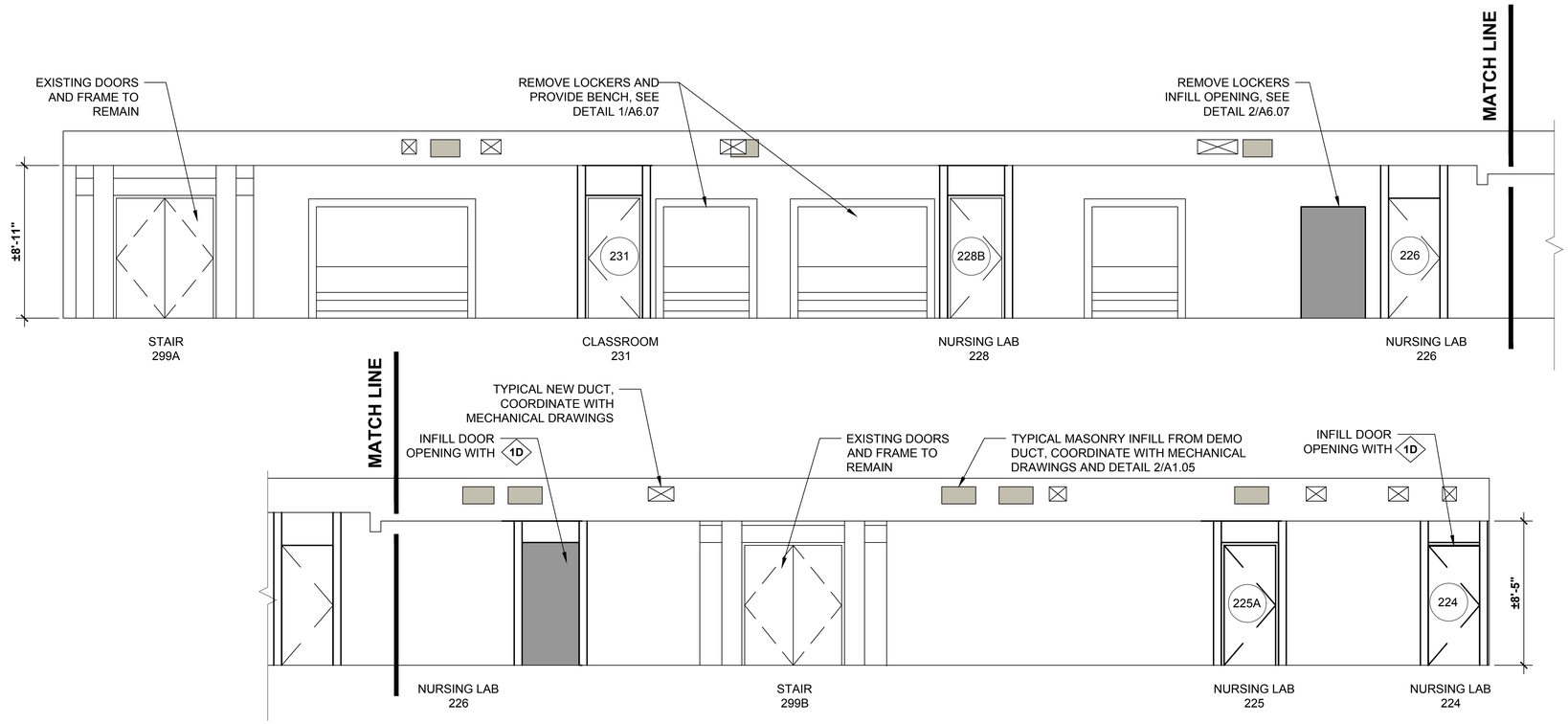

1 CORRIDOR INTERIOR ELEVATION

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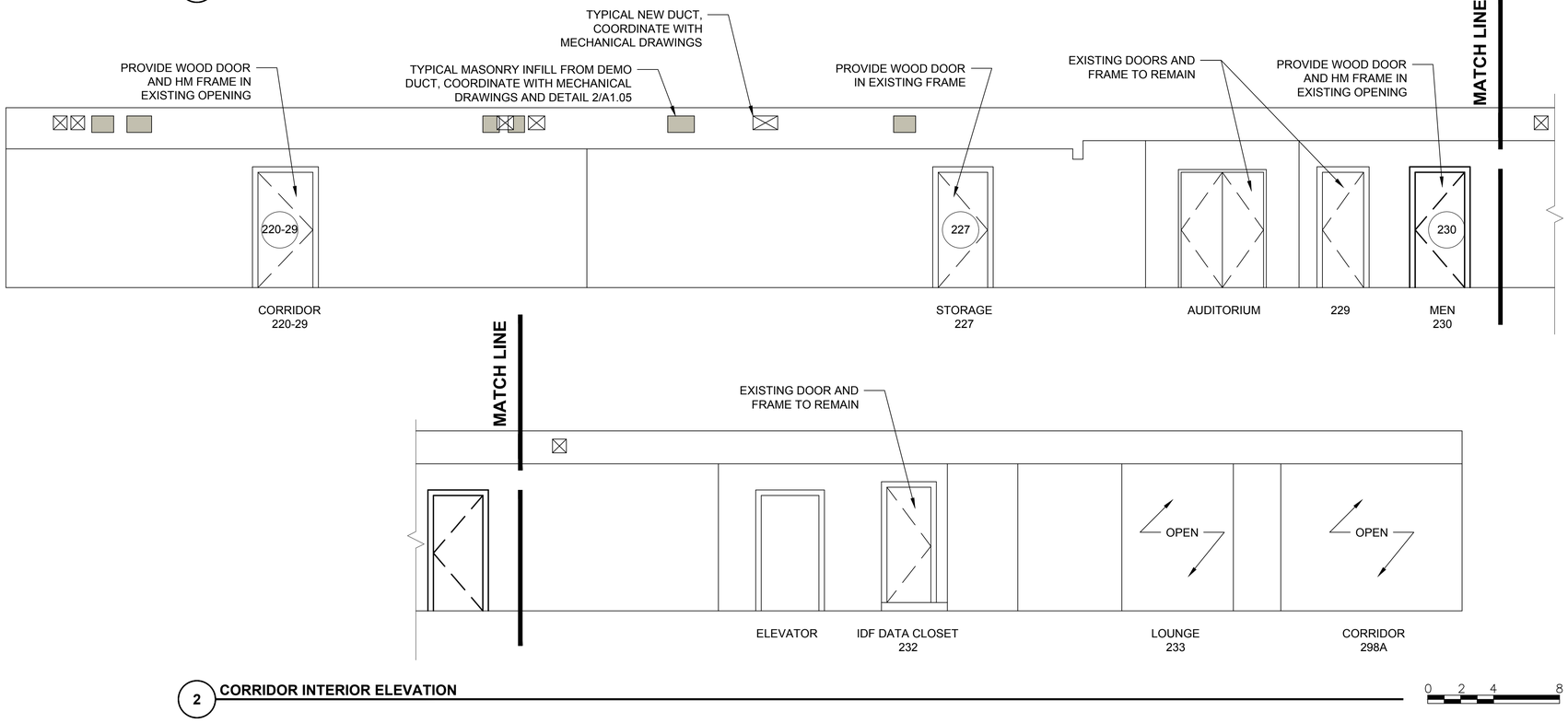

2 CORRIDOR INTERIOR ELEVATION

0 2 4 8

TYPICAL CORRIDOR NOTES:

1. **EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)**
2. **PREP AND PAINT WALLS.**
3. **REMOVE AND REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.**

drawing title
SECOND FLOOR - INTERIOR ELEVATIONS AT CORRIDOR

REVISIONS

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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

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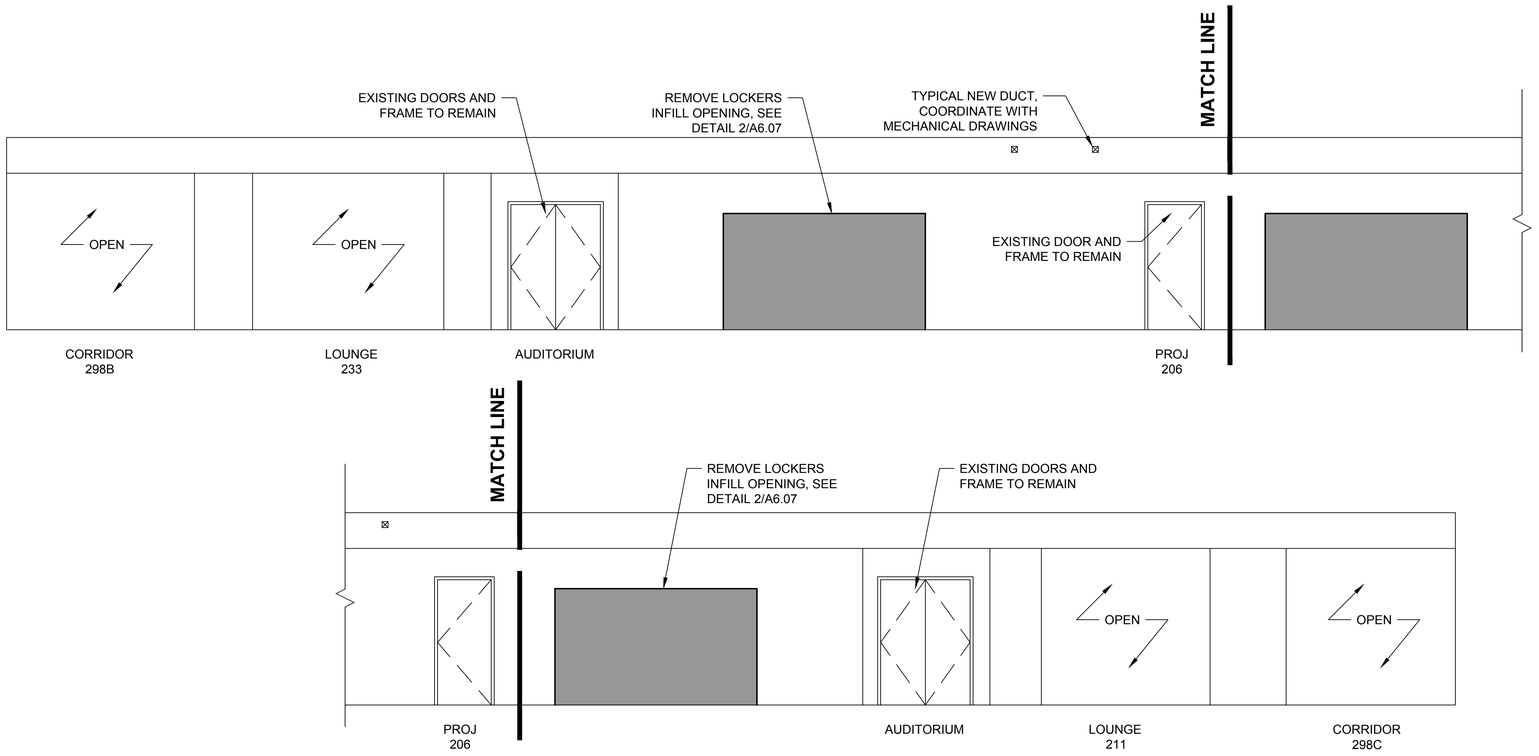
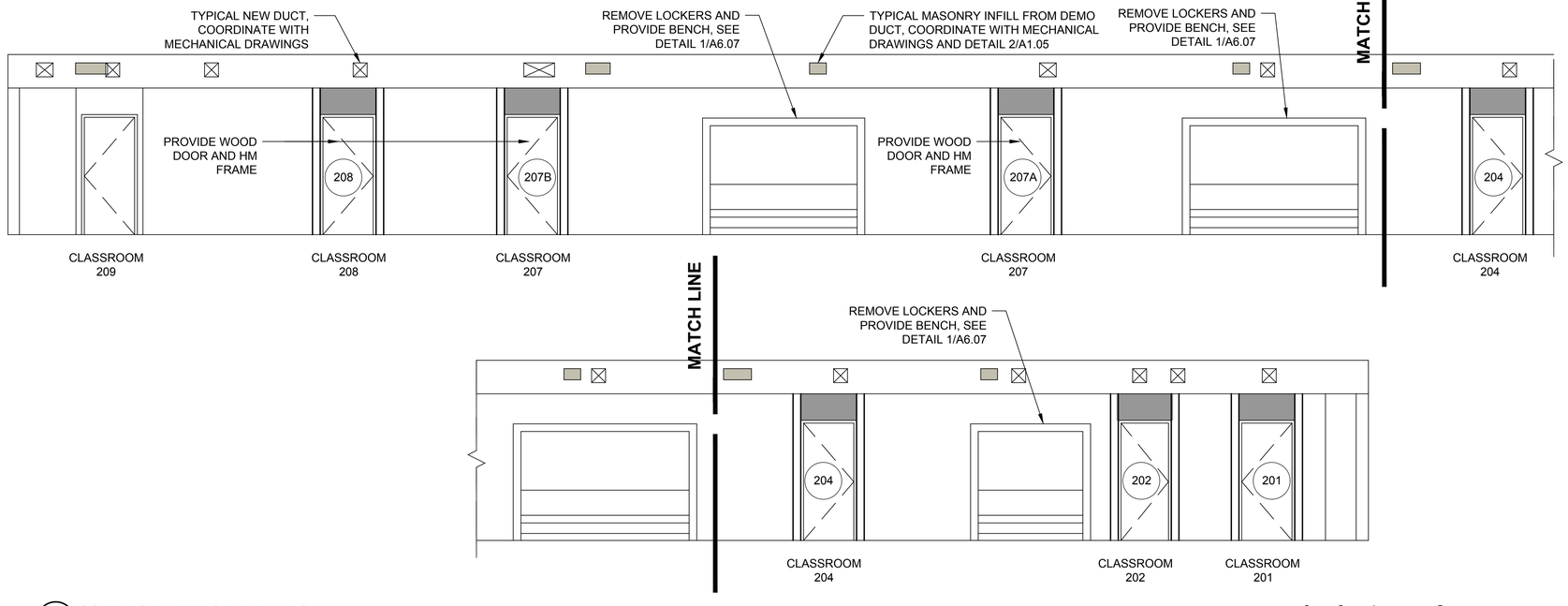


1 CORRIDOR INTERIOR ELEVATION

0 2 4 8



2 CORRIDOR INTERIOR ELEVATION

0 2 4 8

TYPICAL CORRIDOR NOTES:

1. **EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)**
2. **PREP AND PAINT WALLS.**
3. **REMOVE AND REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.**

drawing title
SECOND FLOOR - INTERIOR ELEVATIONS AT CORRIDOR

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STATE OF CONNECTICUT
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31 LIBERTY STREET
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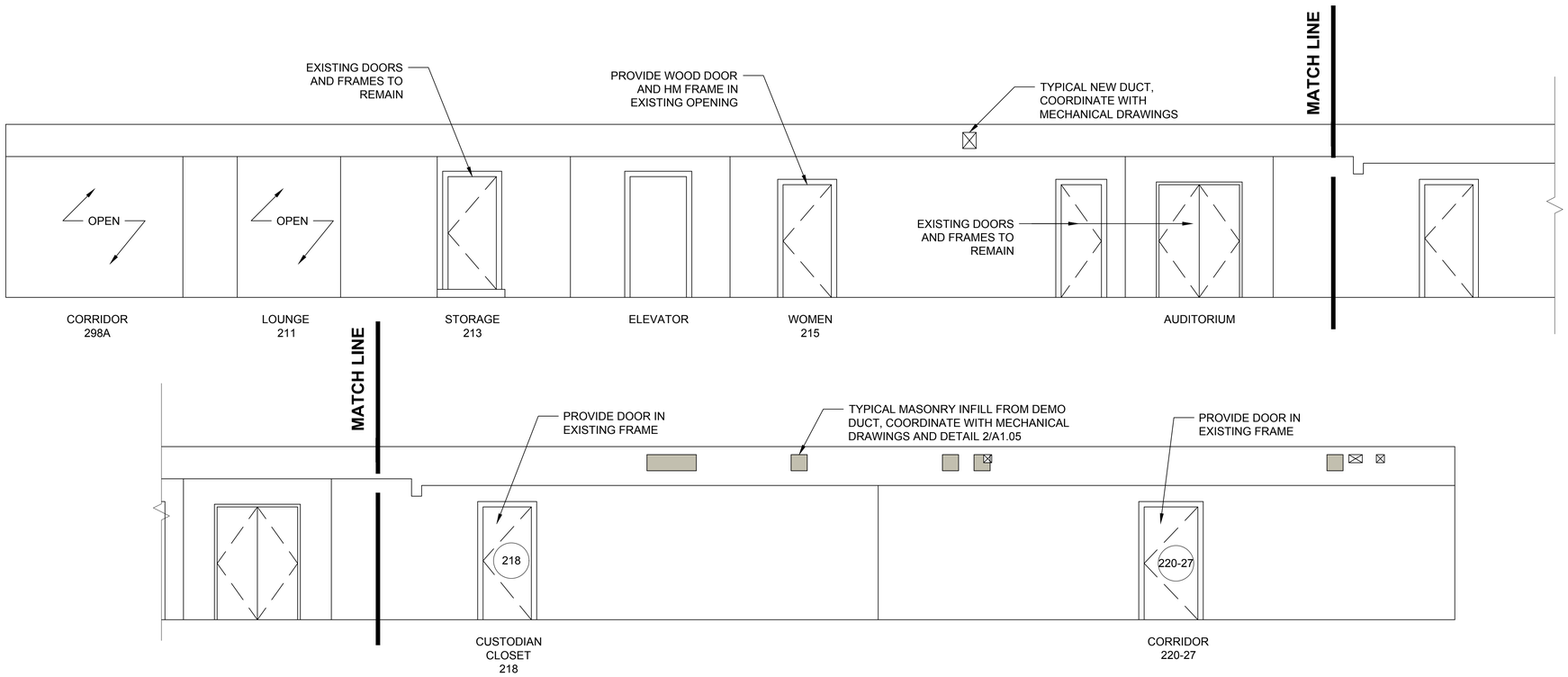
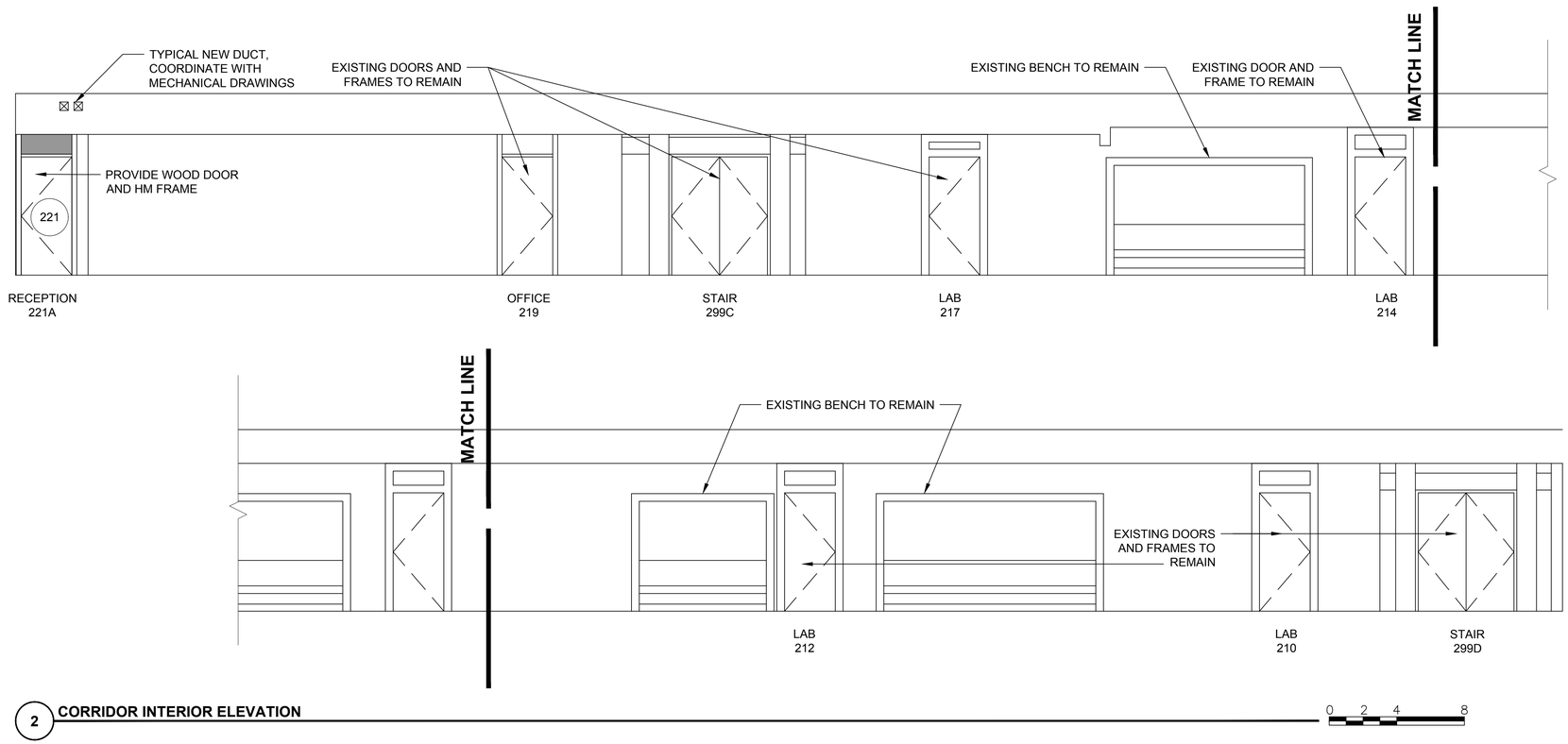


1 CORRIDOR INTERIOR ELEVATION

0 2 4 8



2 CORRIDOR INTERIOR ELEVATION

0 2 4 8

TYPICAL CORRIDOR NOTES:

1. **EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)**
2. **PREP AND PAINT WALLS.**
3. **REMOVE AND REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.**

drawing title
SECOND FLOOR - INTERIOR ELEVATIONS AT CORRIDOR

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	
	1/21/19	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

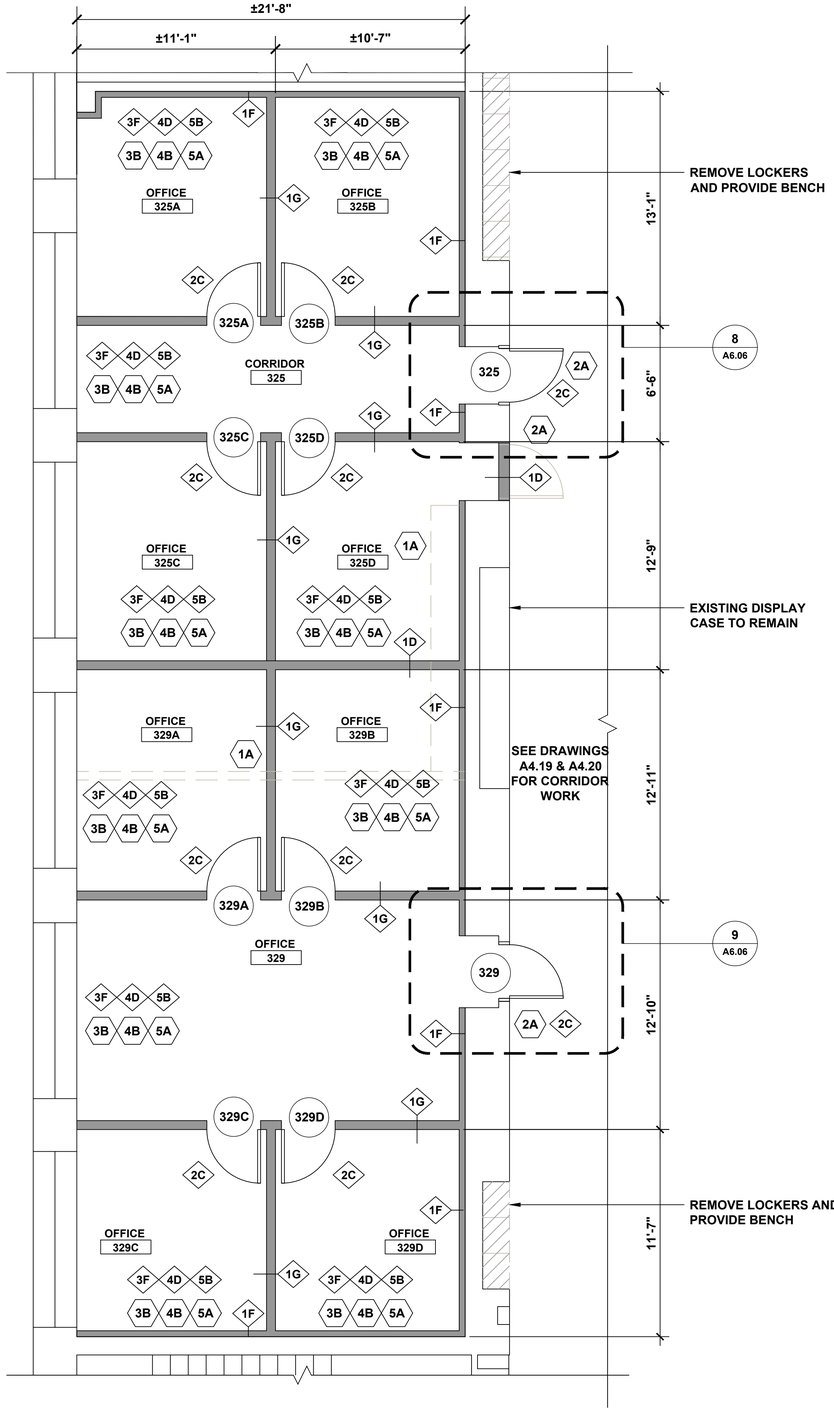
drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

date 07/25/18
scale AS NOTED
drawn by CA/SP
approved by AL

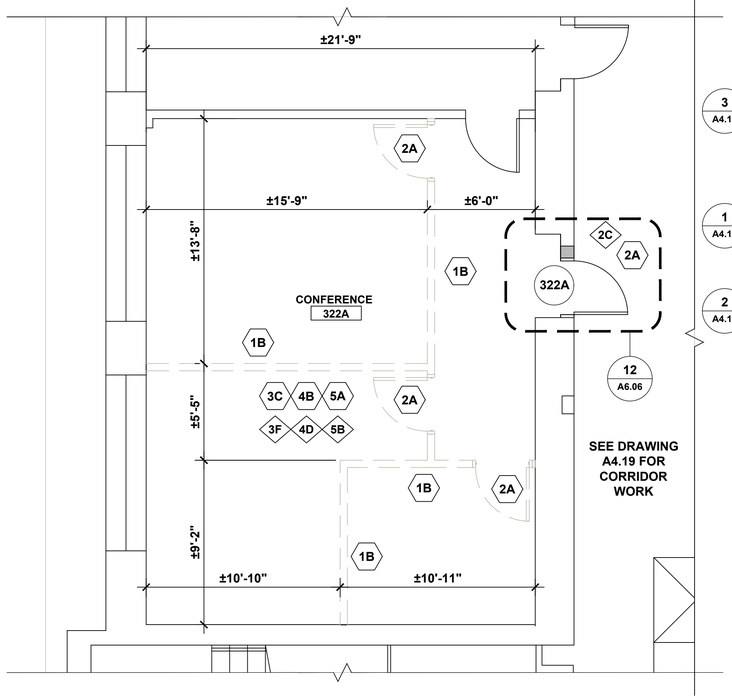
project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no. BI-RD-299

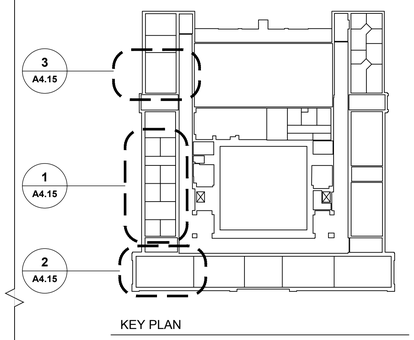
drawing no. **A4.14**



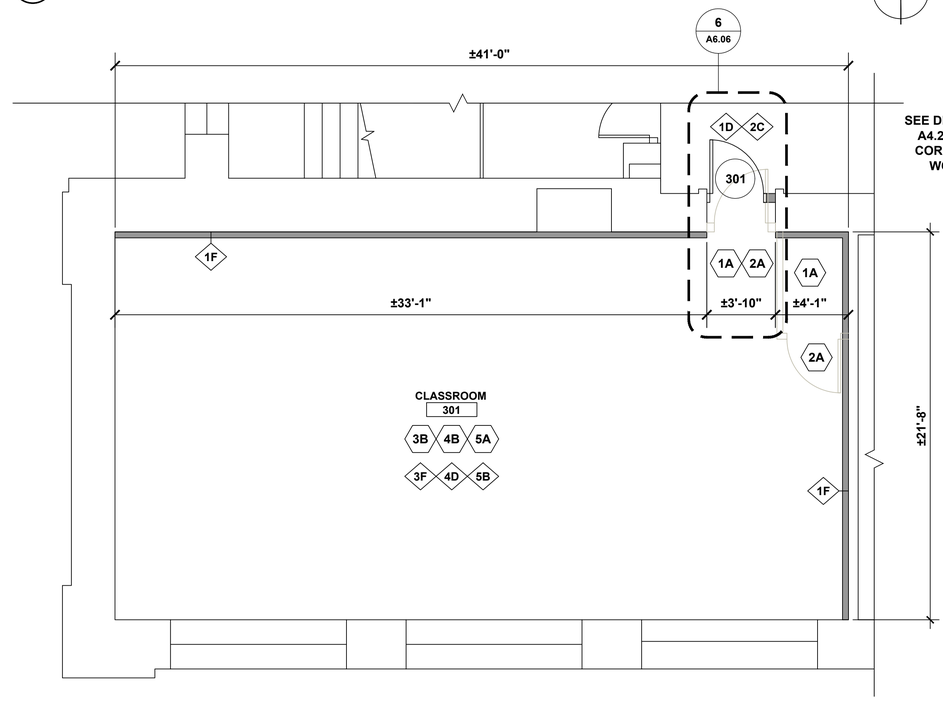
1 **WEST PARTIAL PLAN** 0 2 4 8



3 **NORTHWEST CORNER CONFERENCE ROOM PLAN** 0 2 4 8



KEY PLAN



2 **SOUTHWEST CORNER PARTIAL PLAN** 0 2 4 8

DEMOLITION KEY NOTES

- 1A REMOVE MASONRY WALL.
- 1B REMOVE STUD AND GYP BD WALL.
- 2A REMOVE DOOR AND FRAME.
- 2B REMOVE DOOR. EXISTING FRAME TO REMAIN.
- 3A REMOVE C.T. FLOOR.
- 3B REMOVE VCT FLOOR.
- 3C REMOVE CARPET.
- 4A REMOVE C.T. WAINSCOT AND BASE.
- 4B REMOVE VINYL BASE
- 5A REMOVE ACT CEILING.
- 6A REMOVE LAV.
- 6B REMOVE TOILET & TOILET PARTITION.
- 6C REMOVE URINAL AND URINAL SCREEN.

NEW WORK KEY NOTES

- 1C PROVIDE MASONRY WALL.
- 1D PROVIDE 1 HOUR RATED WALL, 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 1E PROVIDE ⅝" MOISTURE RESISTANT GYP BD ON EXISTING STUDS.
- 1F PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD ONE SIDE
- 1G PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 2C PROVIDE WOOD DOOR AND HM FRAME.
- 2D PROVIDE WOOD DOOR IN EXISTING HM FRAME.
- 3D PROVIDE CT FLOOR AND CT BASE.
- 3E PROVIDE VCT AND RESILIENT BASE.
- 3F PROVIDE CARPET AND RESILIENT BASE.
- 3G EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)
- 4C PROVIDE CT WAINSCOT AND BASE/ PAINT ABOVE
- 4D PREP AND PAINT WALLS
- 4E PROVIDE HORIZONTAL WINDOW BLINDS
- 5B PROVIDE ACT CEILING.
- 5C REMOVE & REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.
- 5D PROVIDE GYPSUM BOARD CEILING/SOFFIT AND PAINT
- 5E PAINT EXISTING CEILING
- 6D PROVIDE LAV
- 6E PROVIDE TOILET & PARTITION
- 6F PROVIDE URINAL & SCREEN
- 7A REMOVE TACK BOARDS. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7B REMOVE BULLETIN BOARD. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7C EXISTING DISPLAY CASES TO REMAIN IN PLACE. PAINT INTERIOR TO MATCH CORRIDOR COLOR. PAINT TRIM TO MATCH DOOR TRIM COLOR.

drawing title
THIRD FLOOR
PARTIAL PLANS

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
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STATE OF CONNECTICUT
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31 LIBERTY STREET
SOUTHINGTON, CT

date 07/25/18
scale AS NOTED
drawn by SP/CA
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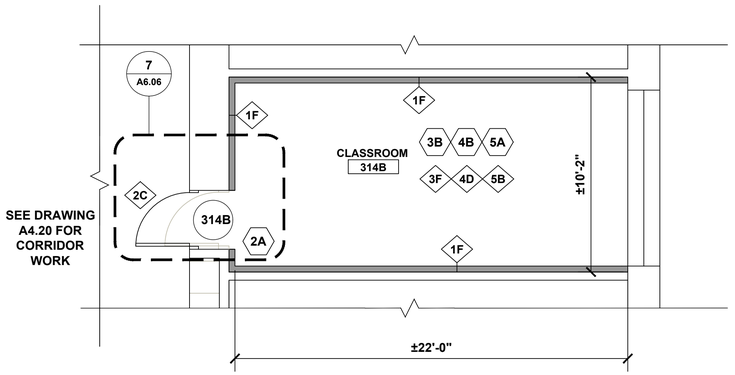
drawing no. A4.15

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

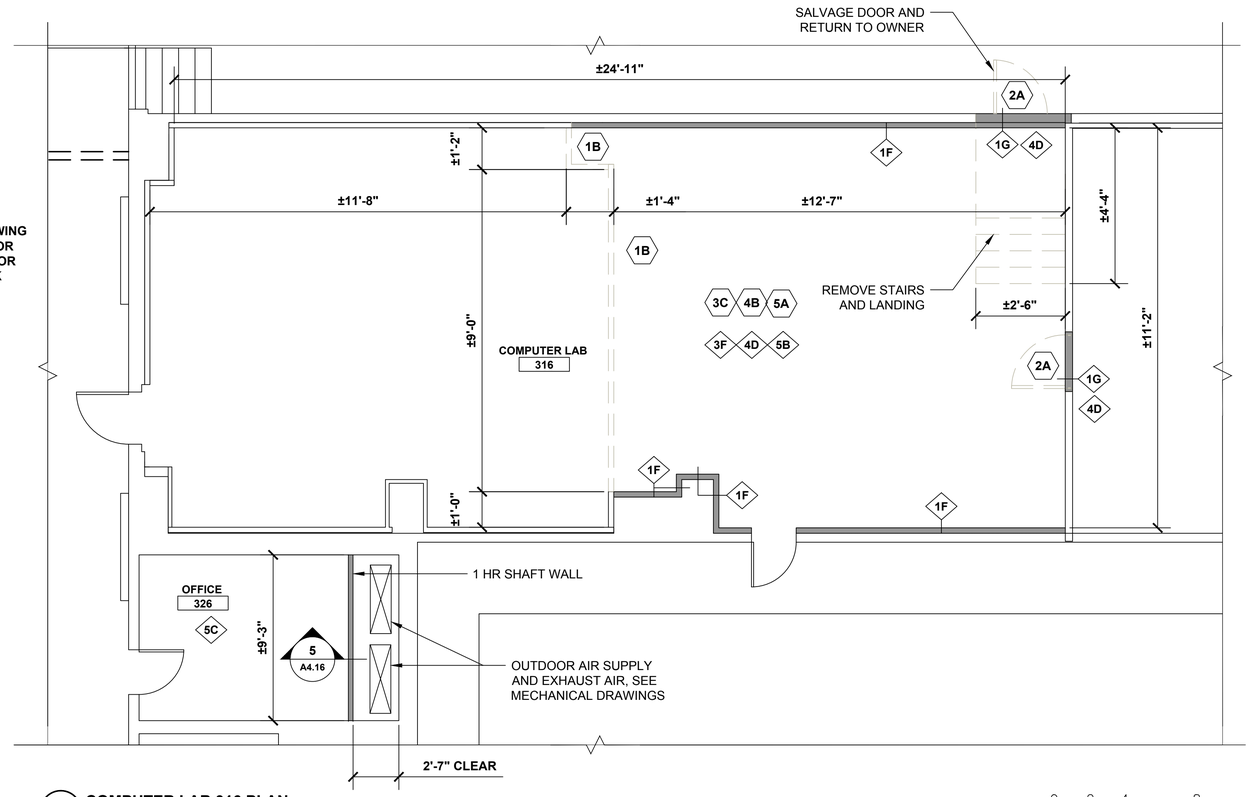
CAD no.
project no. BI-RD-299



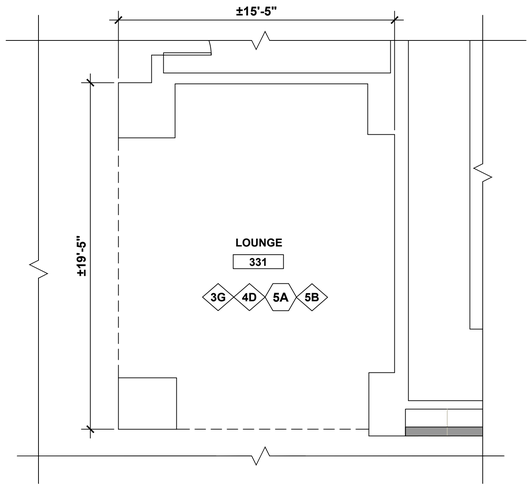
SEE DRAWING A4.20 FOR CORRIDOR WORK

SEE DRAWING A4.19 FOR CORRIDOR WORK

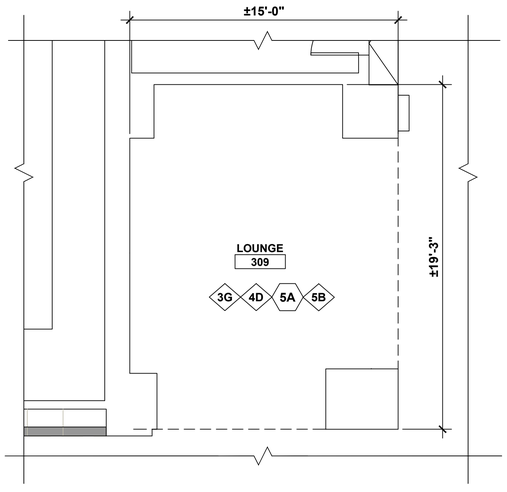
1 **EAST CLASSROOM 314B PLAN** 0 2 4 8



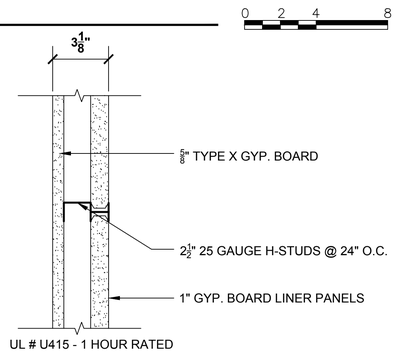
4 **COMPUTER LAB 316 PLAN** 0 2 4 8



2 **SOUTHWEST CORNER PLAN AT IDF DATA CLOSET** 0 2 4 8

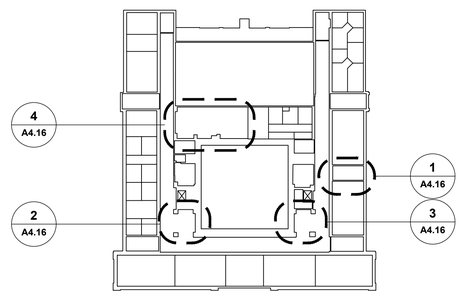


3 **SOUTHEAST CORNER PARTIAL PLAN AT STORAGE ROOM** 0 2 4 8



UL # U415 - 1 HOUR RATED

5 **SHAFT WALL DETAIL** 0 1



KEY PLAN

DEMOLITION KEY NOTES

- 1A REMOVE MASONRY WALL.
- 1B REMOVE STUD AND GYP BD WALL.
- 2A REMOVE DOOR AND FRAME.
- 2B REMOVE DOOR. EXISTING FRAME TO REMAIN.
- 3A REMOVE C.T. FLOOR.
- 3B REMOVE VCT FLOOR.
- 3C REMOVE CARPET.
- 4A REMOVE C.T. WAINSCOT AND BASE.
- 4B REMOVE VINYL BASE
- 5A REMOVE ACT CEILING.
- 6A REMOVE LAV.
- 6B REMOVE TOILET & TOILET PARTITION.
- 6C REMOVE URINAL AND URINAL SCREEN.

NEW WORK KEY NOTES

- 1C PROVIDE MASONRY WALL.
- 1D PROVIDE 1 HOUR RATED WALL, 3 5/8" METAL STUDS WITH 5/8" TYPE 'X' GYP. BOARD BOTH SIDES
- 1E PROVIDE 5/8" MOISTURE RESISTANT GYP BD ON EXISTING STUDS.
- 1F PROVIDE 3 5/8" METAL STUDS WITH 5/8" TYPE 'X' GYP. BOARD ONE SIDE
- 1G PROVIDE 3 5/8" METAL STUDS WITH 5/8" TYPE 'X' GYP. BOARD BOTH SIDES
- 2C PROVIDE WOOD DOOR AND HM FRAME.
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- 3D PROVIDE CT FLOOR AND CT BASE.
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- 3F PROVIDE CARPET AND RESILIENT BASE.
- 3G EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)
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- 4D PREP AND PAINT WALLS
- 4E PROVIDE HORIZONTAL WINDOW BLINDS
- 5B PROVIDE ACT CEILING.
- 5C REMOVE & REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.
- 5D PROVIDE GYPSUM BOARD CEILING/SOFFIT AND PAINT
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drawing title
THIRD FLOOR
PARTIAL PLANS

REVISIONS

mark	date	description
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	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
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project
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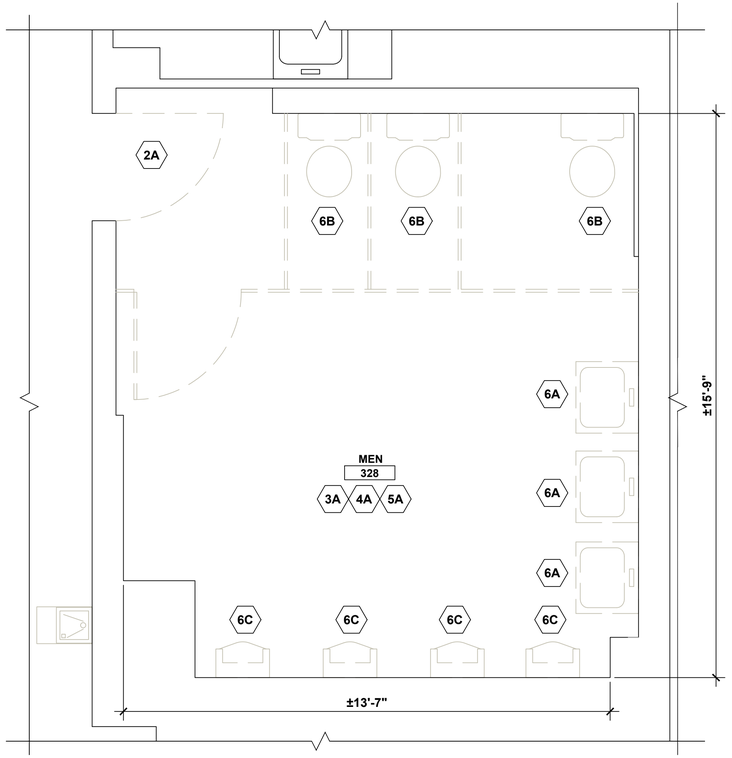
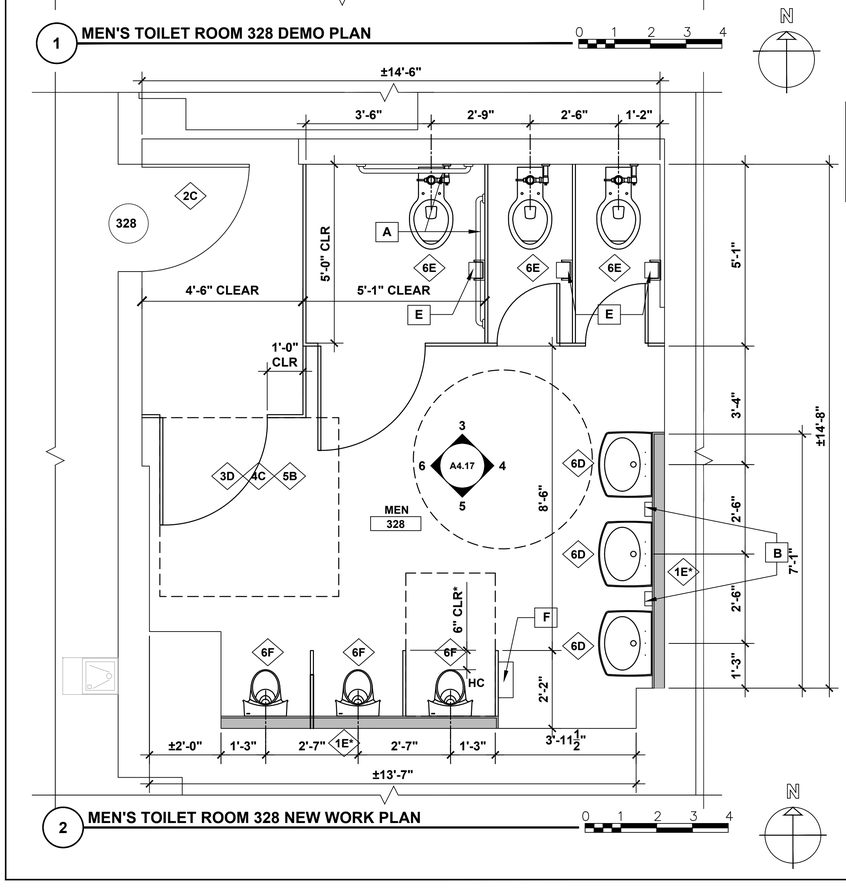
drawing no. **A4.16**



1 MEN'S TOILET ROOM 328 DEMO PLAN

0 1 2 3 4

GENERAL DEMO NOTE:
REMOVE PORTIONS OF CHASE WALL AS REQUIRED FOR REMOVAL AND INSTALLATION OF FIXTURES. COORDINATE WITH MEP DWGS.



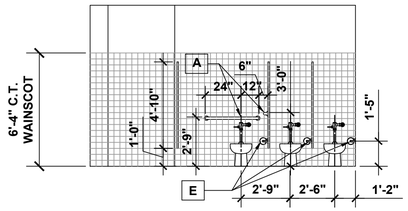
2 MEN'S TOILET ROOM 328 NEW WORK PLAN

0 1 2 3 4

GENERAL NEW WORK NOTE:
INFILL PORTIONS OF CHASE WALL AS REQUIRED FOR INSTALLATION OF FIXTURES. COORDINATE WITH MEP DWGS.

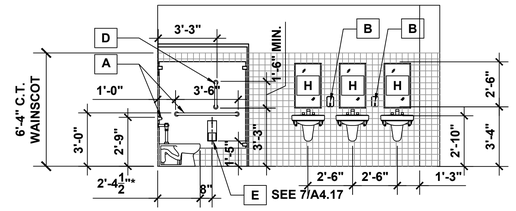
*LAVATORY BASIS OF DESIGN:
KOHLER 2035-4
SEE PLUMBING FIXTURE SCHEDULE, DWG P3.00

*URINAL BASIS OF DESIGN:
KOHLER K-4918-0
SEE PLUMBING FIXTURE SCHEDULE, DWG P3.00



3 MEN'S TOILET ROOM 230 NORTH ELEVATION

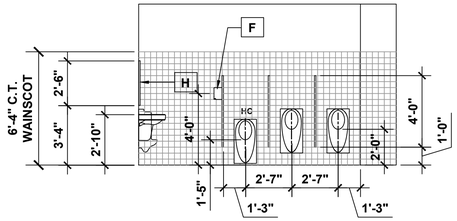
0 2 4 8



* WATER CLOSET BASIS OF DESIGN: KOHLER K-4386-0
SEE PLUMBING FIXTURE SCHEDULE, DWG P3.00

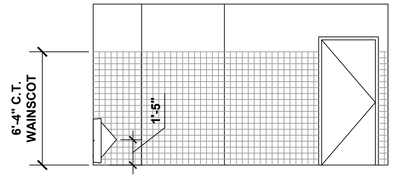
4 MEN'S TOILET ROOM 230 EAST ELEVATION

0 2 4 8



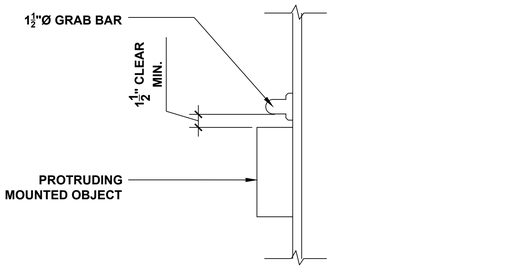
5 MEN'S TOILET ROOM 230 SOUTH ELEVATION

0 2 4 8



6 MEN'S TOILET ROOM 230 WEST ELEVATION

0 2 4 8



7 DETAIL AT GRAB BARS

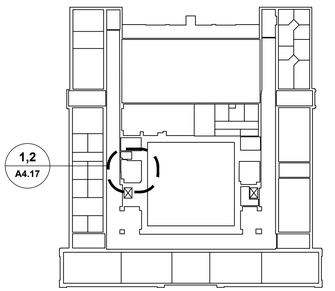
0 1 2

TOILET ACCESSORY KEYNOTES

- A GRAB BARS- 36" & 42" LENGTHS
  MOUNTING HEIGHTS AT 33" AND 36"
  TO TOP OF GRIPPING SURFACE
- B WALL MOUNTED SOAP DISPENSER
  MOUNTING HEIGHT - 42" TO CENTER OF NOZZLE, 48" AFF TO CONTROLS MAX.
  - OWNER SUPPLIED, INSTALLED BY CONTRACTOR
- C TRASH RECEPTACLE
  FREE STANDING - BY OWNER
- D VERTICAL GRAB BAR
  MOUNTING HEIGHT - 39" TO BOTTOM OF GRAB BAR
- E TOILET PAPER DISPENSER
  MOUNTING HEIGHT - 17" TO OUTLET OF DISPENSER AFF - 29" TO TOP OF DISPENSER MAX.
  - OWNER SUPPLIED, INSTALLED BY CONTRACTOR
- F PAPER TOWEL DISPENSER
  MOUNTING HEIGHT-48" AT CENTER OF DISPENSED AREA;48" AFF TO CONTROLS MAX. - OWNER SUPPLIED, INSTALLED BY CONTRACTOR
- G SANITARY NAPKIN RECEPTACLE
  MOUNTING HEIGHT - 29" AT TOP OF RECEPTACLE
  - OWNER SUPPLIED, INSTALLED BY CONTRACTOR
- H LAVATORY MIRROR - SIZE: 18"x30"
  MOUNTING HEIGHT - 40" TO BOTTOM OF MIRROR

NOTE:

SUPPLEMENTAL BID ITEM #1



KEY PLAN

DEMOLITION KEY NOTES

- 1A REMOVE MASONRY WALL.
- 1B REMOVE STUD AND GYP BD WALL.
- 2A REMOVE DOOR AND FRAME.
- 2B REMOVE DOOR. EXISTING FRAME TO REMAIN.
- 3A REMOVE C.T. FLOOR.
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- 3C REMOVE CARPET.
- 4A REMOVE C.T. WAINSCOT AND BASE.
- 4B REMOVE VINYL BASE
- 5A REMOVE ACT CEILING.
- 6A REMOVE LAV.
- 6B REMOVE TOILET & TOILET PARTITION.
- 6C REMOVE URINAL AND URINAL SCREEN.

NEW WORK KEY NOTES

- 1C PROVIDE MASONRY WALL.
- 1D PROVIDE 1 HOUR RATED WALL, 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 1E PROVIDE ⅝" MOISTURE RESISTANT GYP BD ON EXISTING STUDS.
- 1F PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD ONE SIDE
- 1G PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
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- 2D PROVIDE WOOD DOOR IN EXISTING HM FRAME.
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- 7A REMOVE TACK BOARDS. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7B REMOVE BULLETIN BOARD. INSTALL PROVIDED OR EXISTING BOARDS AFTER ALL CORRIDOR WORK HAS BEEN COMPLETED. COORDINATE LOCATIONS WITH OWNER.
- 7C EXISTING DISPLAY CASES TO REMAIN IN PLACE. PAINT INTERIOR TO MATCH CORRIDOR COLOR. PAINT TRIM TO MATCH DOOR TRIM COLOR.

drawing title
THIRD FLOOR
MEN'S TOILET ROOM PLANS

REVISIONS

mark	date	description
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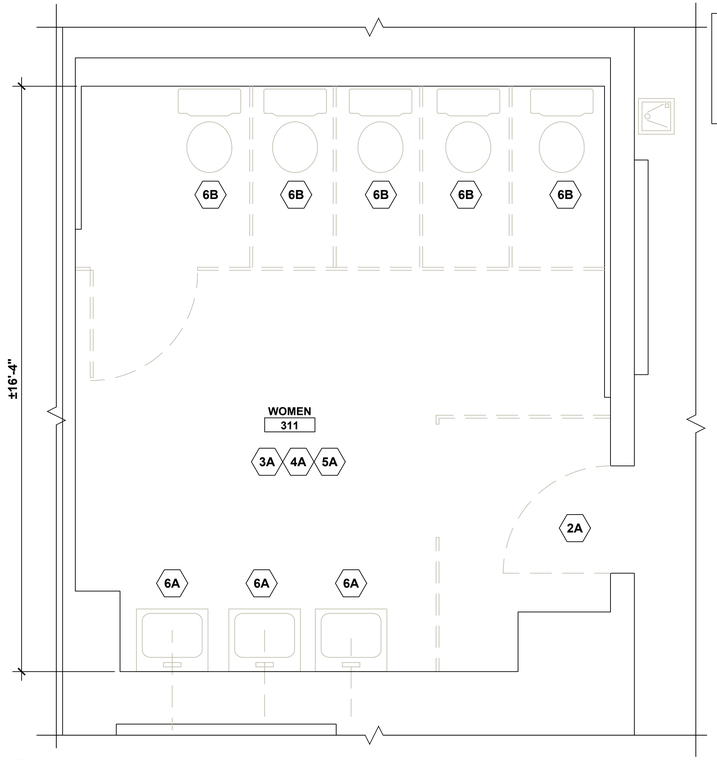
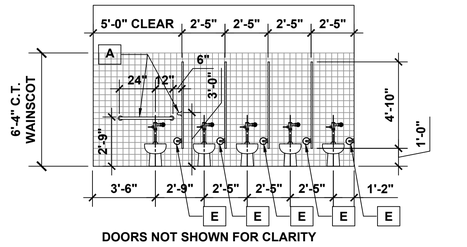


2 WOMEN'S TOILET ROOM 311 DEMO PLAN

0 1 2 3 4

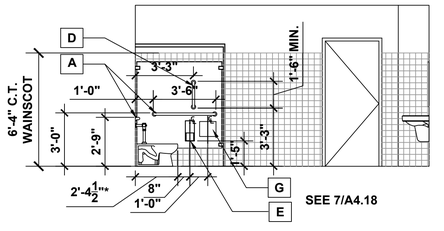
GENERAL DEMO NOTE:
REMOVE PORTIONS OF CHASE WALL AS REQUIRED FOR REMOVAL AND INSTALLATION OF FIXTURES. COORDINATE WITH MEP DWGS.



DOORS NOT SHOWN FOR CLARITY

3 WOMEN'S TOILET ROOM 215 NORTH ELEVATION

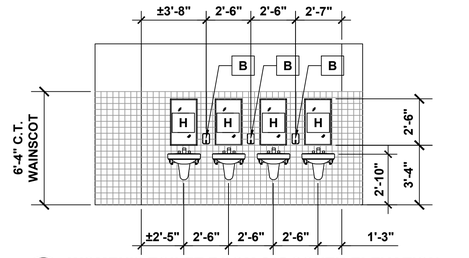
0 2 4 8



*WATER CLOSET BASIS OF DESIGN: KOHLER K-4386-0
SEE PLUMBING FIXTURE SCHEDULE, DWG P3.00

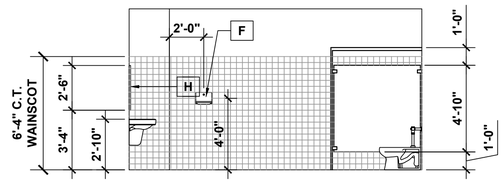
4 WOMEN'S TOILET ROOM 215 EAST ELEVATION

0 2 4 8



5 WOMEN'S TOILET ROOM 215 SOUTH ELEVATION

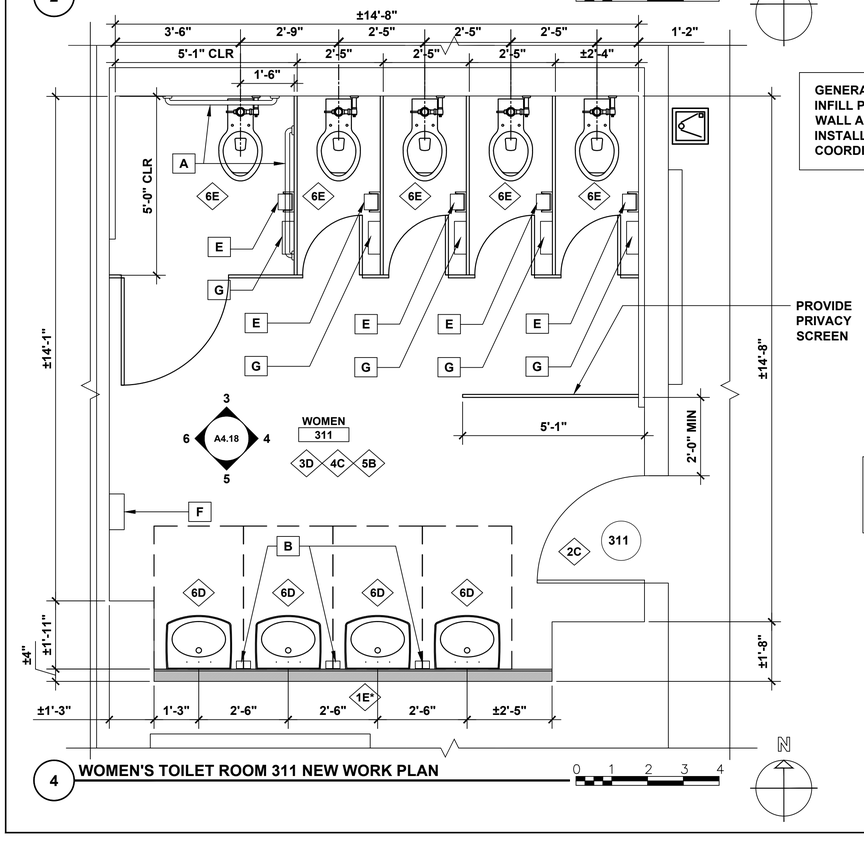
0 2 4 8



6 WOMEN'S TOILET ROOM 215 WEST ELEVATION

0 2 4 8

GENERAL NEW WORK NOTE:
INFILL PORTIONS OF CHASE WALL AS REQUIRED FOR INSTALLATION OF FIXTURES. COORDINATE WITH MEP DWGS.



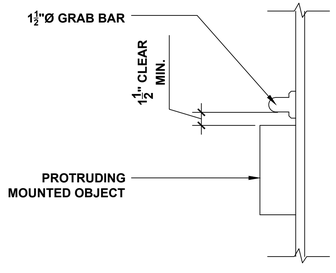
4 WOMEN'S TOILET ROOM 311 NEW WORK PLAN

0 1 2 3 4

*LAVATORY BASIS OF DESIGN:
KOHLER 2035-4
SEE PLUMBING FIXTURE SCHEDULE, DWG P3.00

TOILET ACCESSORY KEYNOTES

- A GRAB BARS- 36" & 42" LENGTHS
  MOUNTING HEIGHTS AT 33" AND 36"
  TO TOP OF GRIPPING SURFACE
- B WALL MOUNTED SOAP DISPENSER
  MOUNTING HEIGHT - 42" TO CENTER OF NOZZLE, 48" AFF TO CONTROLS MAX.
  - OWNER SUPPLIED, INSTALLED BY CONTRACTOR
- C TRASH RECEPTACLE
  FREE STANDING - BY OWNER
- D VERTICAL GRAB BAR
  MOUNTING HEIGHT - 39" TO BOTTOM OF GRAB BAR
- E TOILET PAPER DISPENSER
  MOUNTING HEIGHT - 17" TO OUTLET OF DISPENSER AFF - 29" TO TOP OF DISPENSER MAX.
  - OWNER SUPPLIED, INSTALLED BY CONTRACTOR
- F PAPER TOWEL DISPENSER
  MOUNTING HEIGHT-48" AT CENTER OF DISPENSED AREA;48" AFF TO CONTROLS MAX. - OWNER SUPPLIED, INSTALLED BY CONTRACTOR
- G SANITARY NAPKIN RECEPTACLE
  MOUNTING HEIGHT - 29" AT TOP OF RECEPTACLE
  - OWNER SUPPLIED, INSTALLED BY CONTRACTOR
- H LAVATORY MIRROR - SIZE: 18"x30"
  MOUNTING HEIGHT - 40" TO BOTTOM OF MIRROR

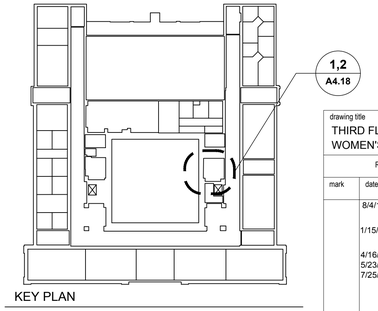


7 DETAIL AT GRAB BARS

0 1 2

NOTE:

SUPPLEMENTAL BID ITEM #1



KEY PLAN

DEMOLITION KEY NOTES

- 1A REMOVE MASONRY WALL.
- 1B REMOVE STUD AND GYP BD WALL.
- 2A REMOVE DOOR AND FRAME.
- 2B REMOVE DOOR. EXISTING FRAME TO REMAIN.
- 3A REMOVE C.T. FLOOR.
- 3B REMOVE VCT FLOOR.
- 3C REMOVE CARPET.
- 4A REMOVE C.T. WAINSCOT AND BASE.
- 4B REMOVE VINYL BASE
- 5A REMOVE ACT CEILING.
- 6A REMOVE LAV.
- 6B REMOVE TOILET & TOILET PARTITION.
- 6C REMOVE URINAL AND URINAL SCREEN.

NEW WORK KEY NOTES

- 1C PROVIDE MASONRY WALL.
- 1D PROVIDE 1 HOUR RATED WALL, 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
- 1E PROVIDE ⅝" MOISTURE RESISTANT GYP BD ON EXISTING STUDS.
- 1F PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD ONE SIDE
- 1G PROVIDE 3⅝" METAL STUDS WITH ⅝" TYPE 'X' GYP. BOARD BOTH SIDES
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- 2D PROVIDE WOOD DOOR IN EXISTING HM FRAME.
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- 3E PROVIDE VCT AND RESILIENT BASE.
- 3F PROVIDE CARPET AND RESILIENT BASE.
- 3G EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)
- 4C PROVIDE CT WAINSCOT AND BASE/ PAINT ABOVE
- 4D PREP AND PAINT WALLS
- 4E PROVIDE HORIZONTAL WINDOW BLINDS
- 5B PROVIDE ACT CEILING.
- 5C REMOVE & REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.
- 5D PROVIDE GYPSUM BOARD CEILING/SOFFIT AND PAINT
- 5E PAINT EXISTING CEILING
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drawing title
THIRD FLOOR
WOMEN'S TOILET ROOM PLANS

REVISIONS

mark	date	description
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	1/15/18	DESIGN DEVELOPMENT SUBMISSION
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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

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AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

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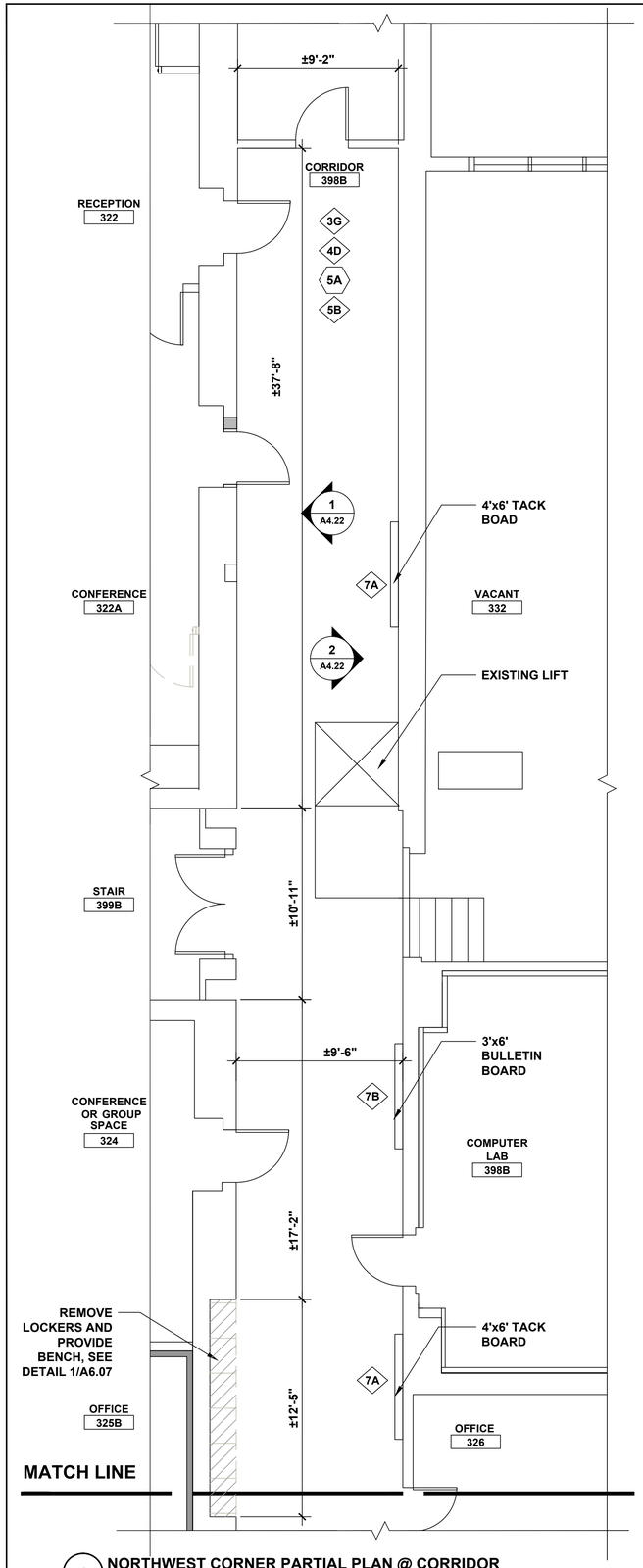

1 NORTHWEST CORNER PARTIAL PLAN @ CORRIDOR

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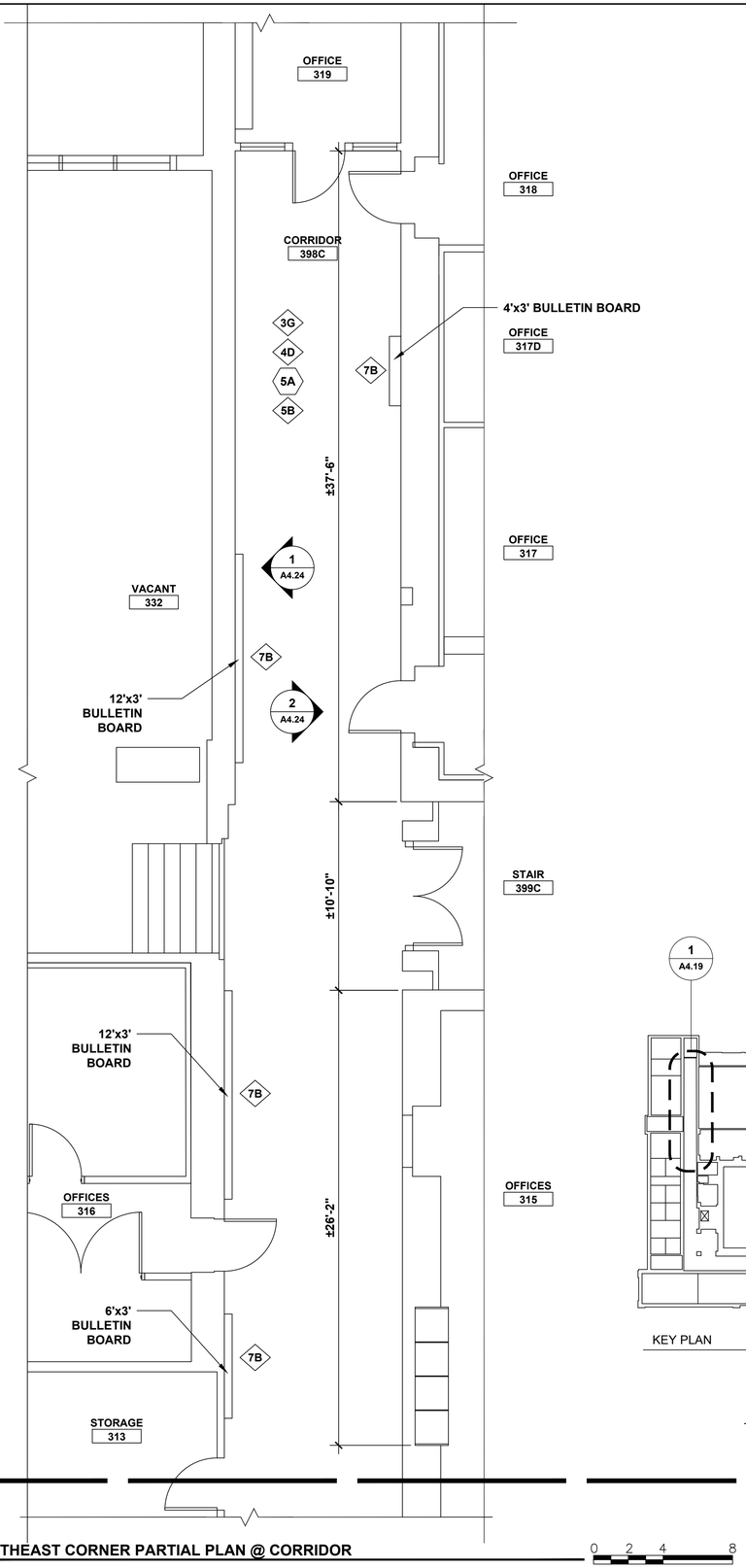
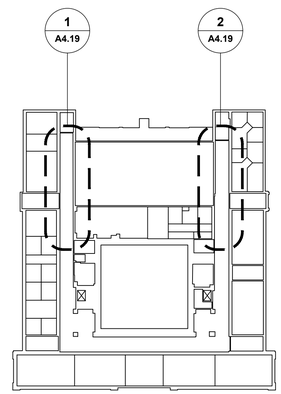


2 NORTHEAST CORNER PARTIAL PLAN @ CORRIDOR

0 2 4 8



KEY PLAN

N

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- 3F PROVIDE CARPET AND RESILIENT BASE.
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- 5C REMOVE & REINSTALL ACT CEILING AFTER MEP WORK IS COMPLETED.
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drawing title
THIRD FLOOR
CORRIDOR PARTIAL PLANS

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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

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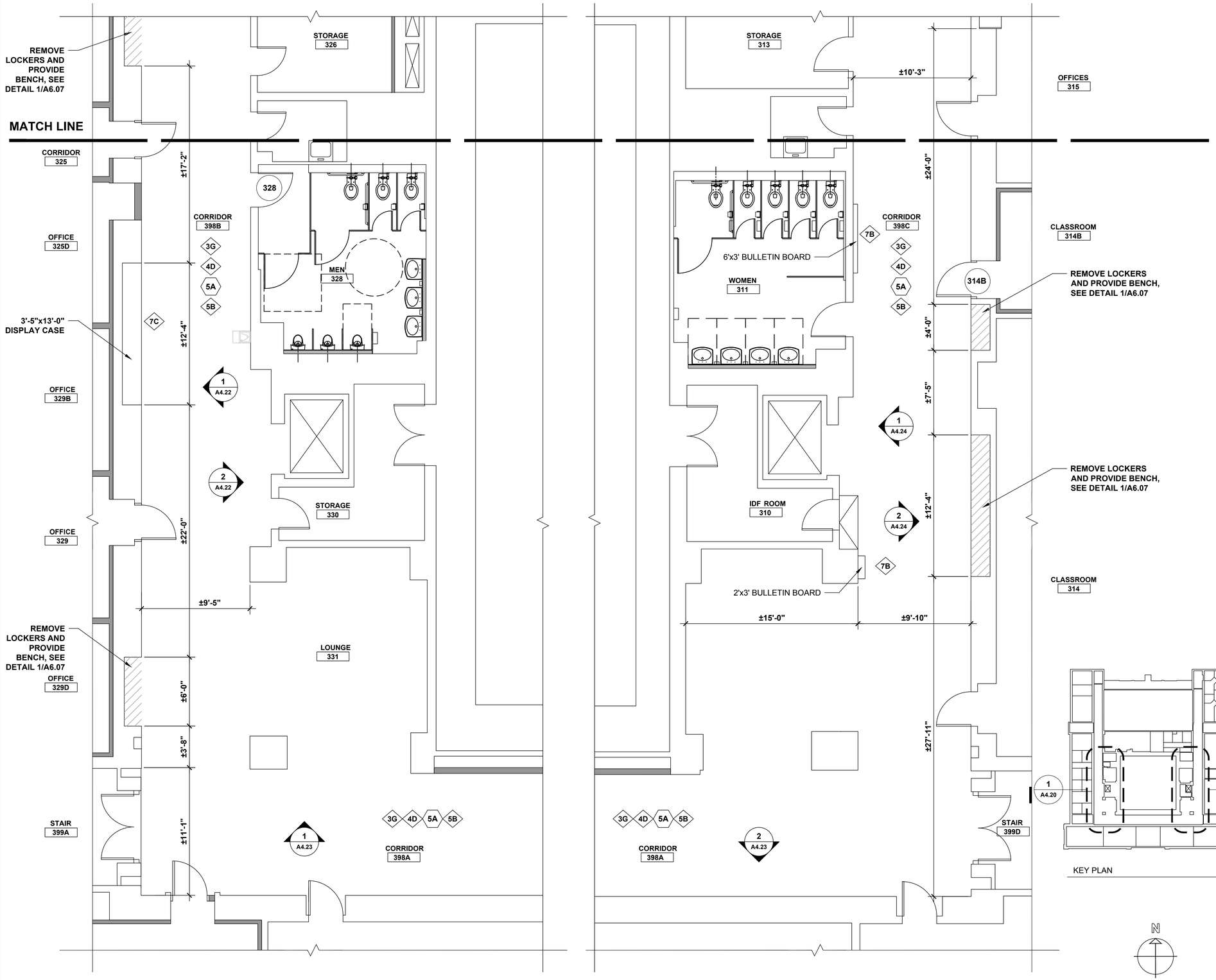

1 SOUTHHWEST CORNER PARTIAL PLAN @ CORRIDOR

0 2 4 8

2 SOUTHEAST CORNER PARTIAL PLAN @ CORRIDOR

0 2 4 8

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drawing title
THIRD FLOOR
CORRIDOR PARTIAL PLANS

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DEPARTMENT OF ADMINISTRATIVE SERVICES

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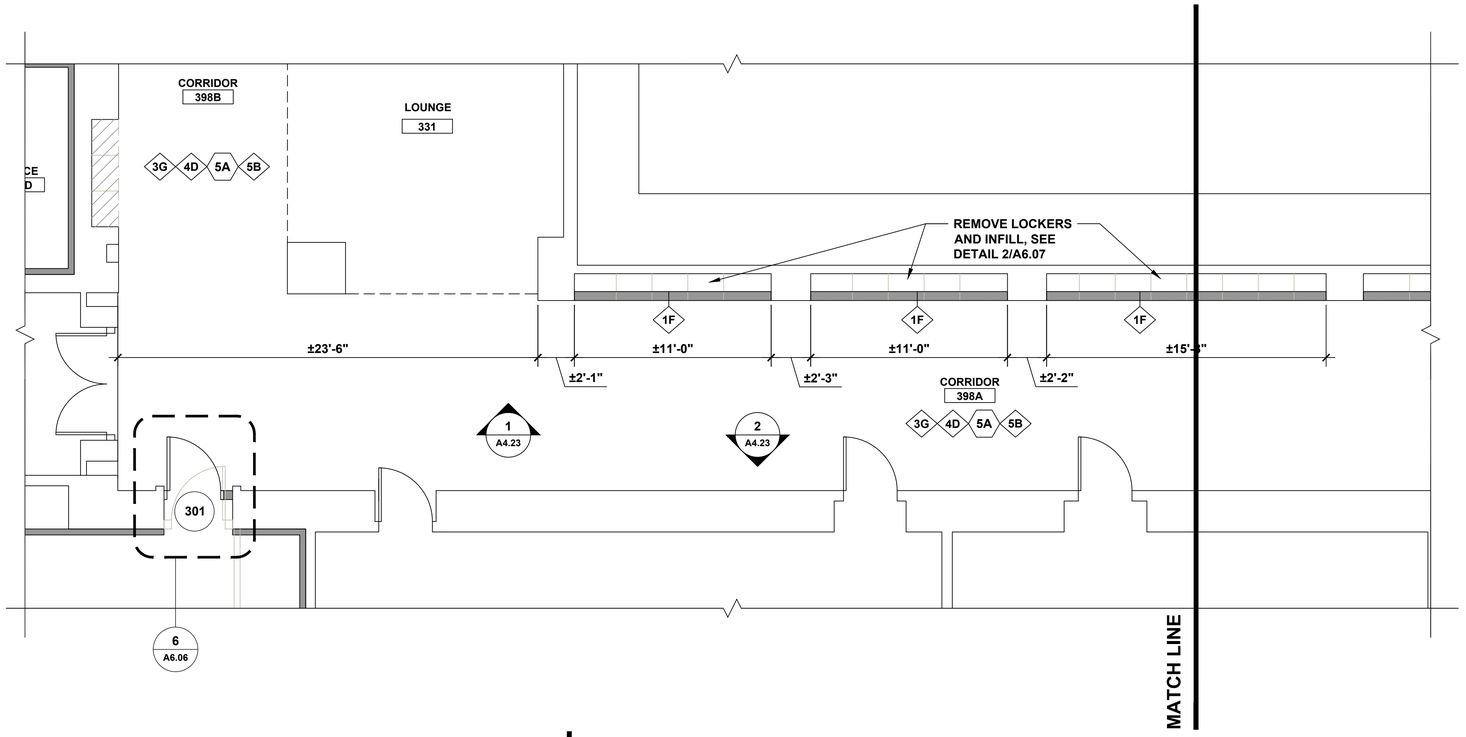
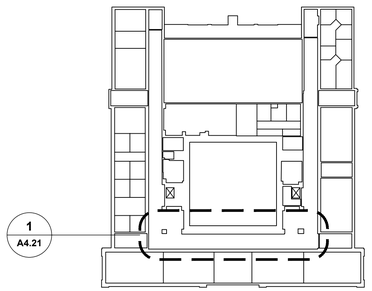
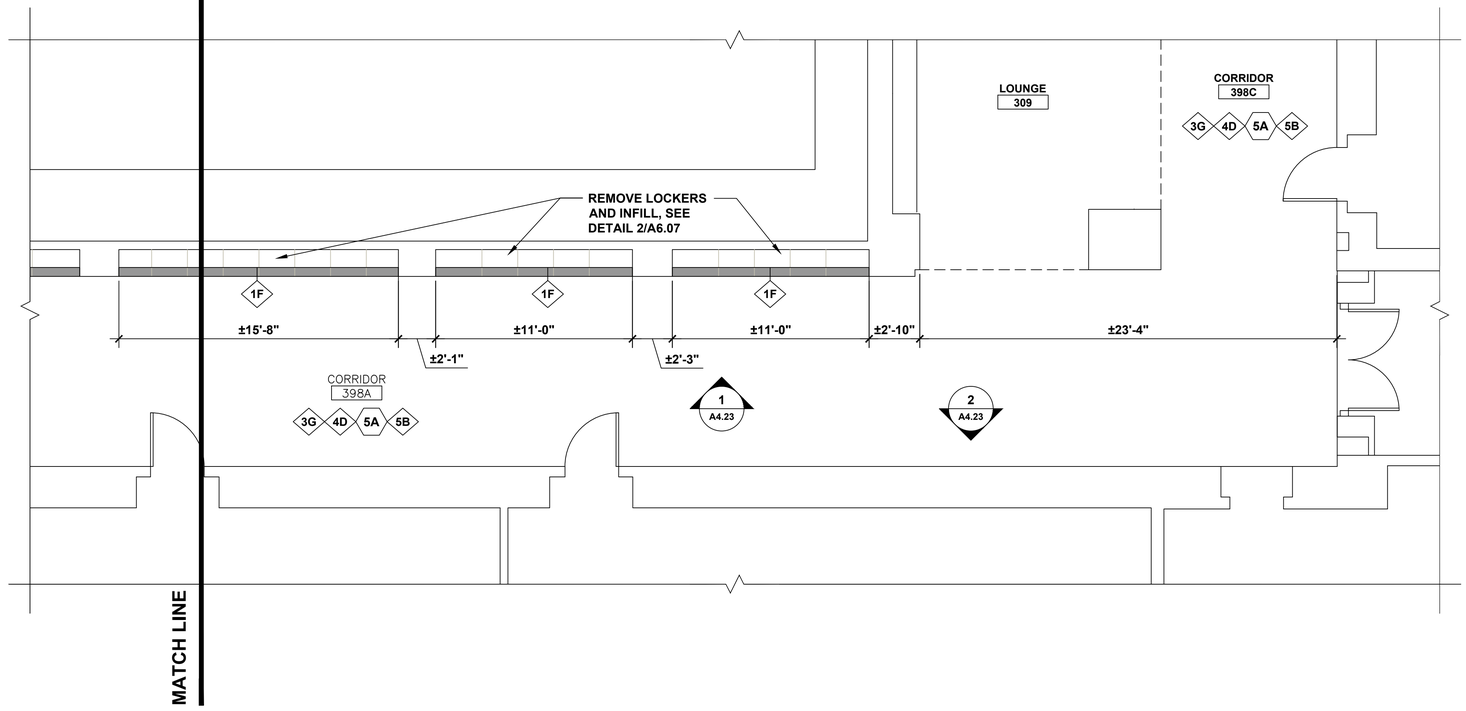




KEY PLAN



1 SOUTH WING PARTIAL PLAN AT CORRIDOR

0 2 4 8

N

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drawing title
THIRD FLOOR
CORRIDOR PARTIAL PLANS

REVISIONS

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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

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31 LIBERTY STREET
SOUTHINGTON, CT

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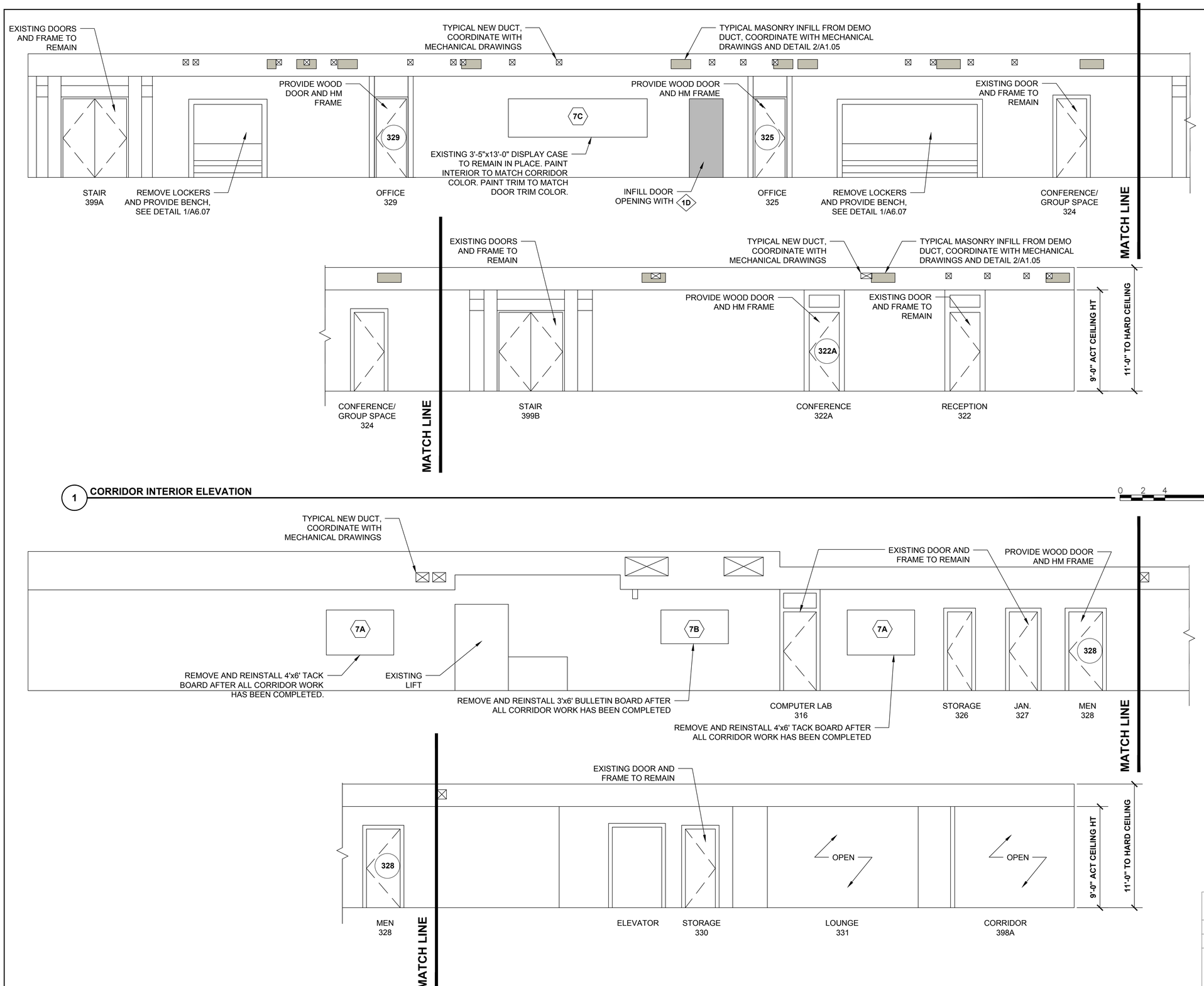

1 CORRIDOR INTERIOR ELEVATION

0 2 4 8

2 CORRIDOR INTERIOR ELEVATION

0 2 4 8

TYPICAL CORRIDOR NOTES:

1. **EXISTING FLOORING TO REMAIN. (PROTECT DURING RENOVATION)**
2. **PREP AND PAINT WALLS.**
3. **PROVIDE ACT CEILING.**

drawing title
THIRD FLOOR - INTERIOR ELEVATIONS AT CORRIDOR

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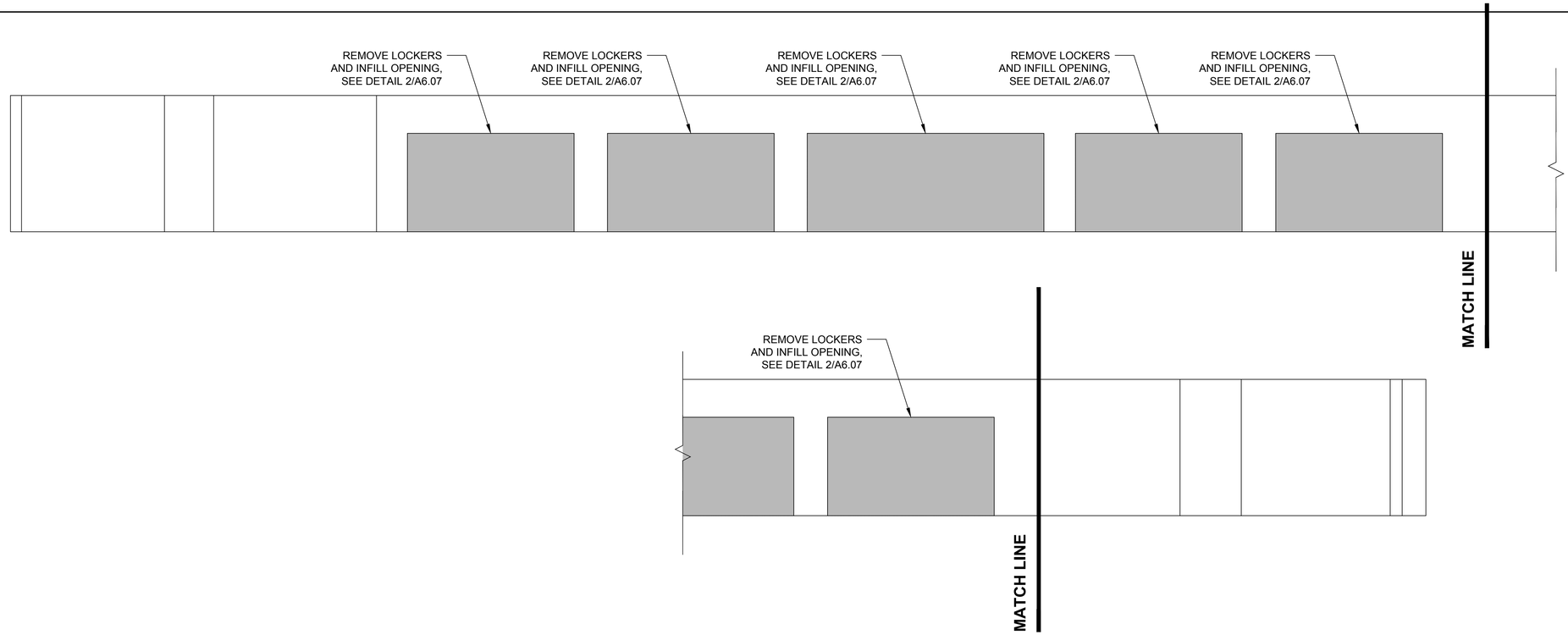
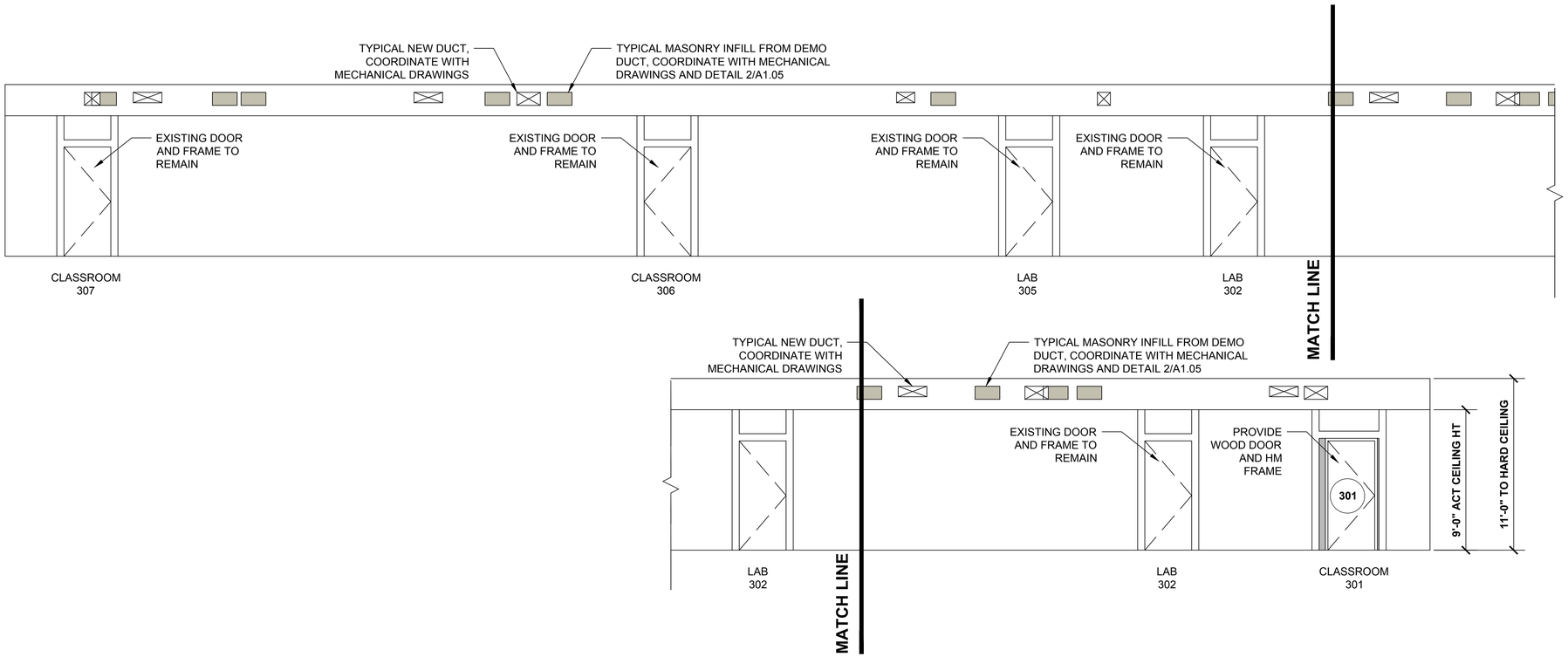


1 **CORRIDOR INTERIOR ELEVATION**

0 2 4 8



2 **CORRIDOR INTERIOR ELEVATION**

0 2 4 8

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drawing title
THIRD FLOOR - INTERIOR ELEVATIONS AT CORRIDOR

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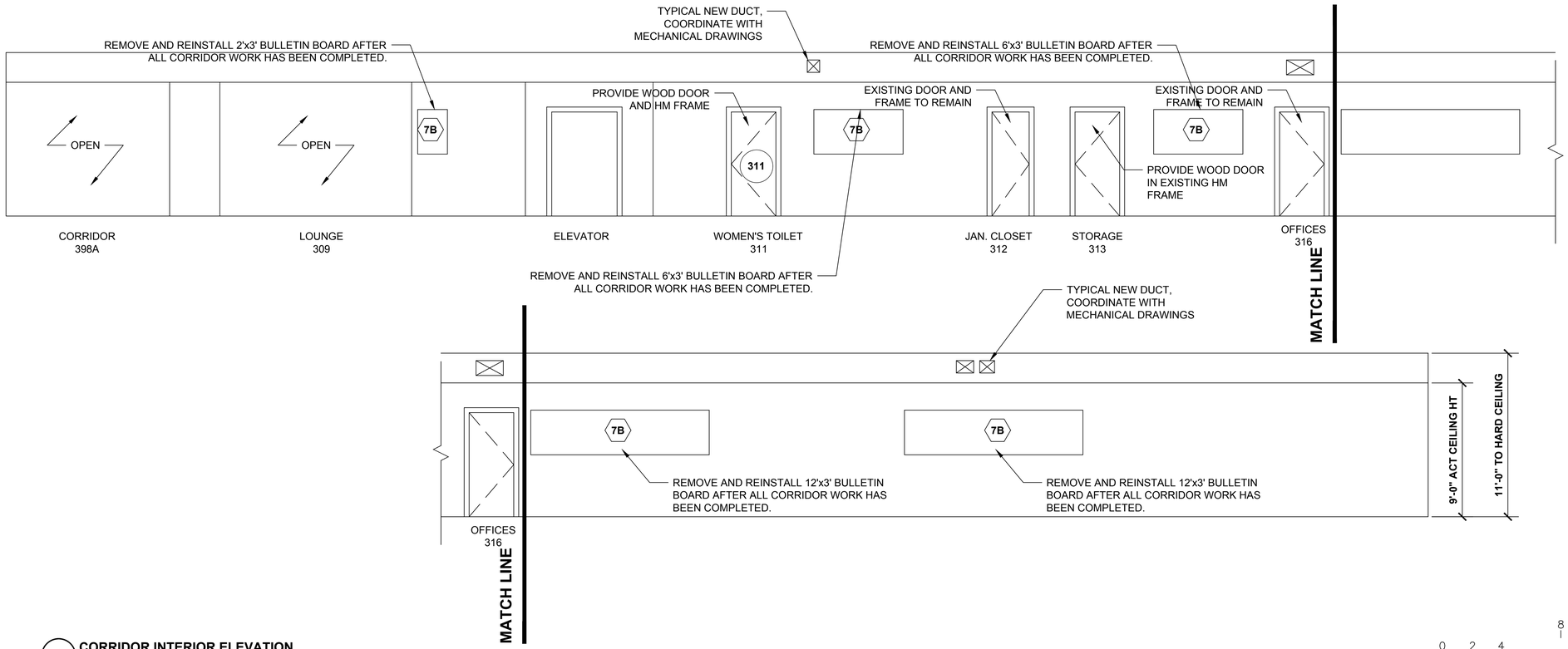

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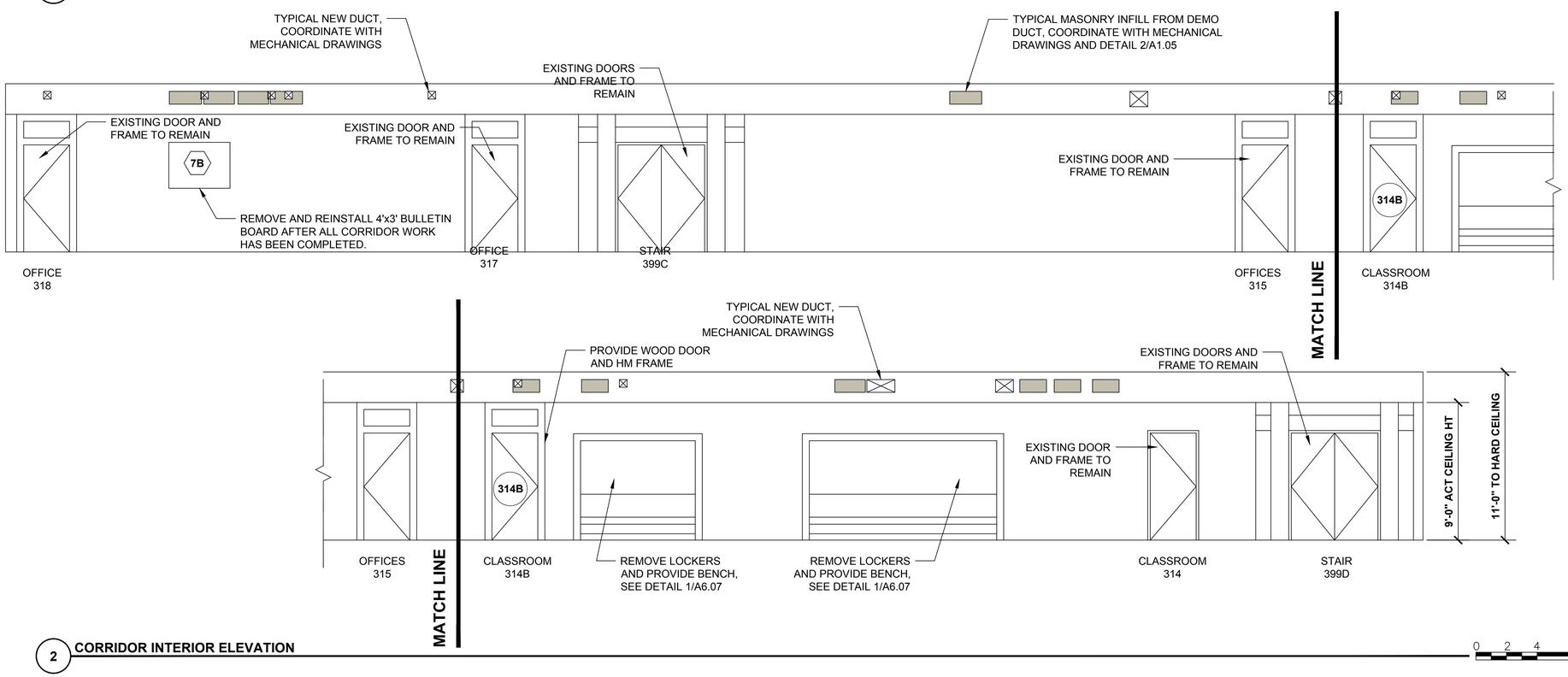

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drawing title
THIRD FLOOR - INTERIOR ELEVATIONS AT CORRIDOR

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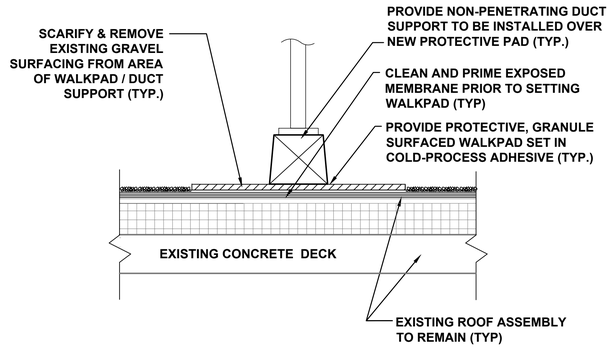

1 NON-PENETRATING EQUIP. SUPPORT DETAIL
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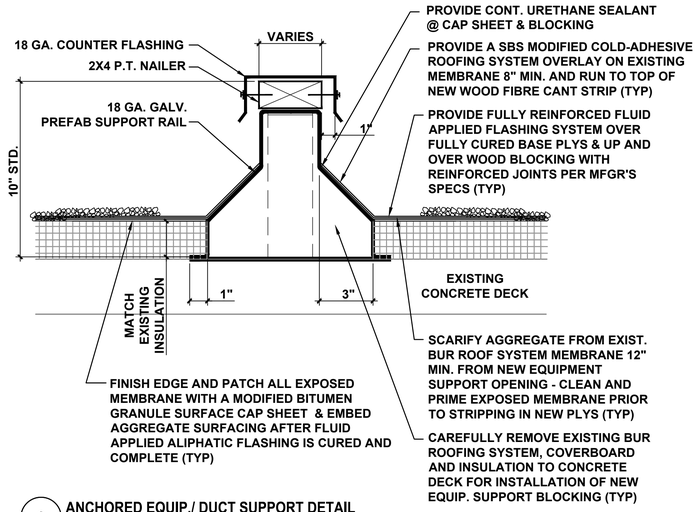

2 ANCHORED EQUIP./ DUCT SUPPORT DETAIL
N.T.S.

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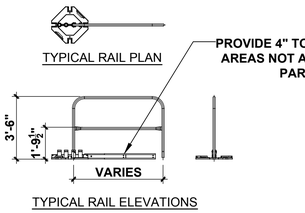
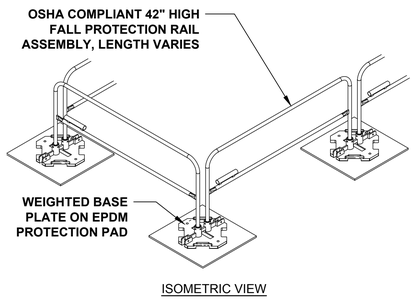


TYPICAL RAIL ELEVATIONS



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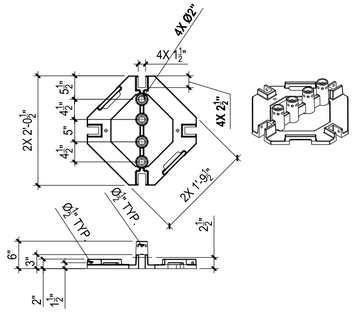
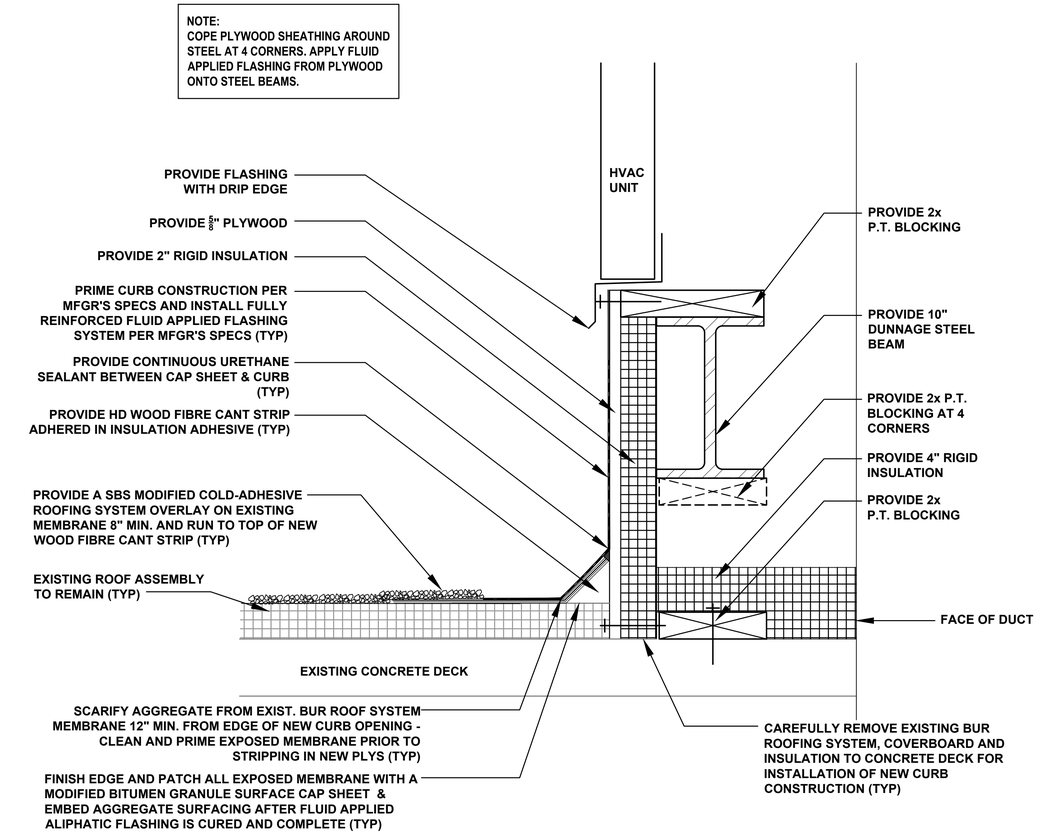
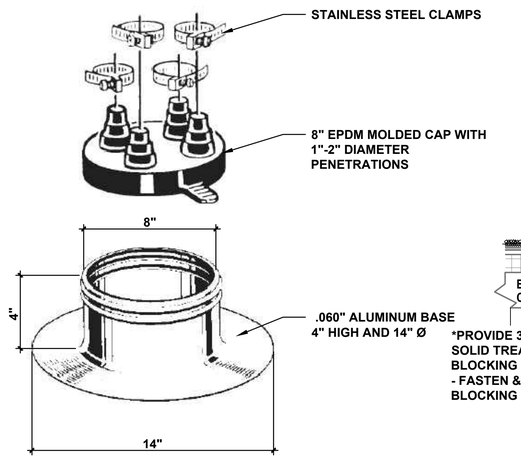


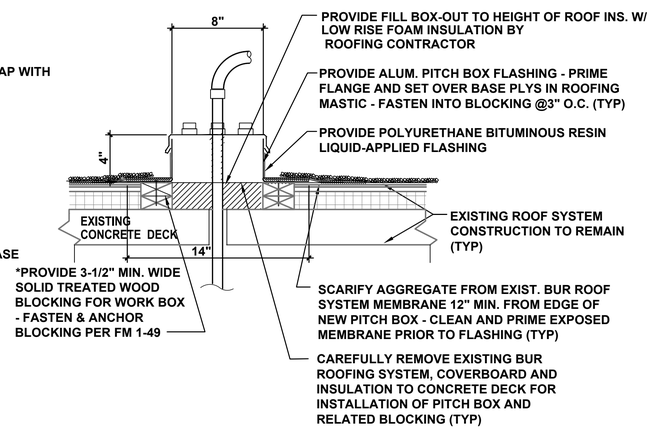
ASSEMBLY BASE PLATE DETAILS

3 FALL PROTECTION RAILING SYSTEM ASSEMBLY DETAILS
N.T.S.

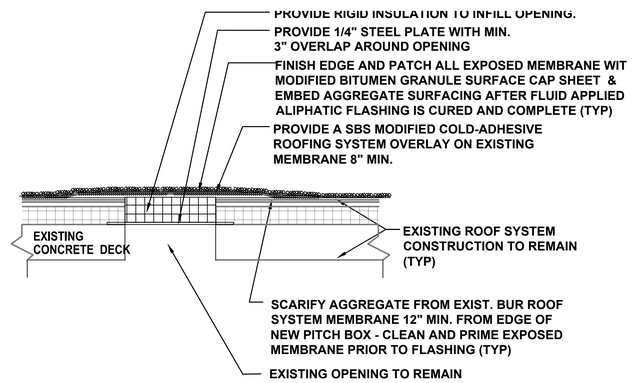


4 HVAC CURB FLASHING DETAIL
0 1





5 PIPING PENETRATION DETAIL
N.T.S.



5 PITCH POCKET INFILL DETAIL
N.T.S.

drawing title
ROOF DETAILS

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	

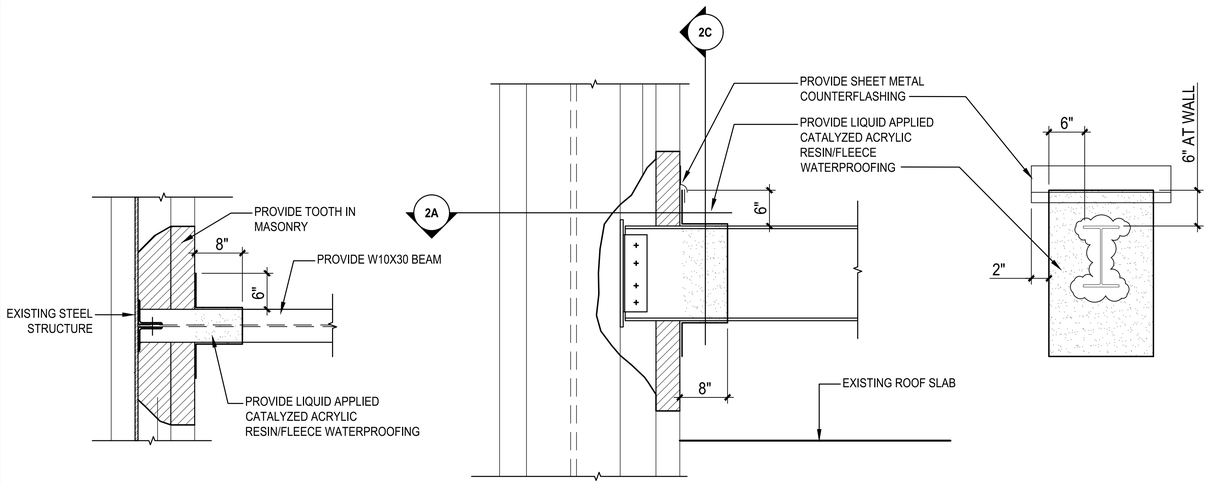
STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

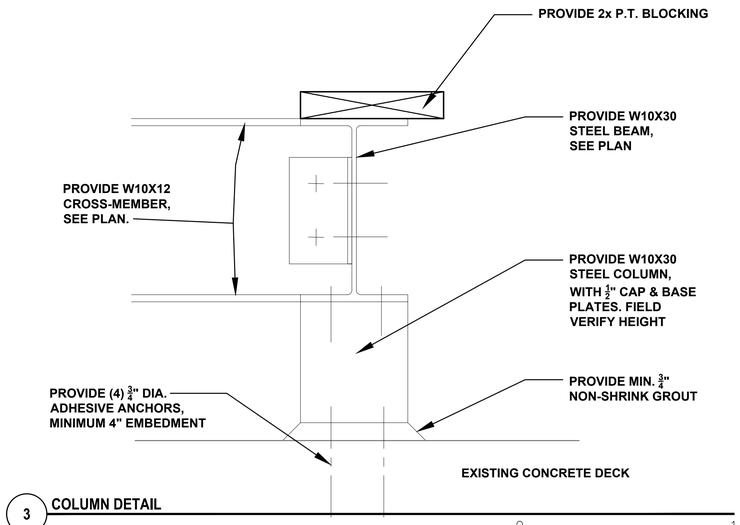
date 07/25/18
scale AS NOTED
drawn by SP/CA
approved by AL
drawing no. A5.01

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no. BI-RD-299



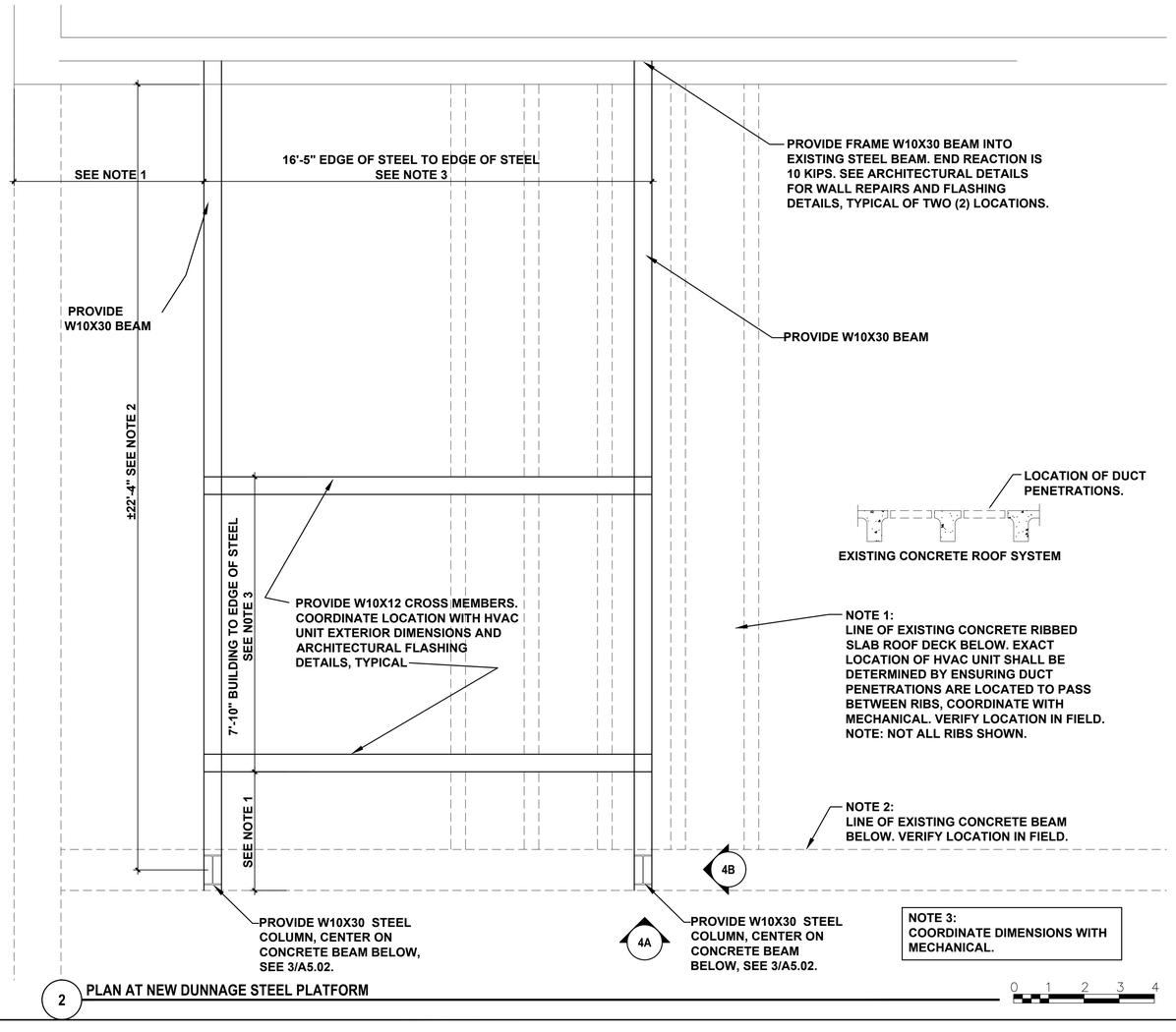
1 NEW BEAM CONNECTION TO EXISTING COLUMNS



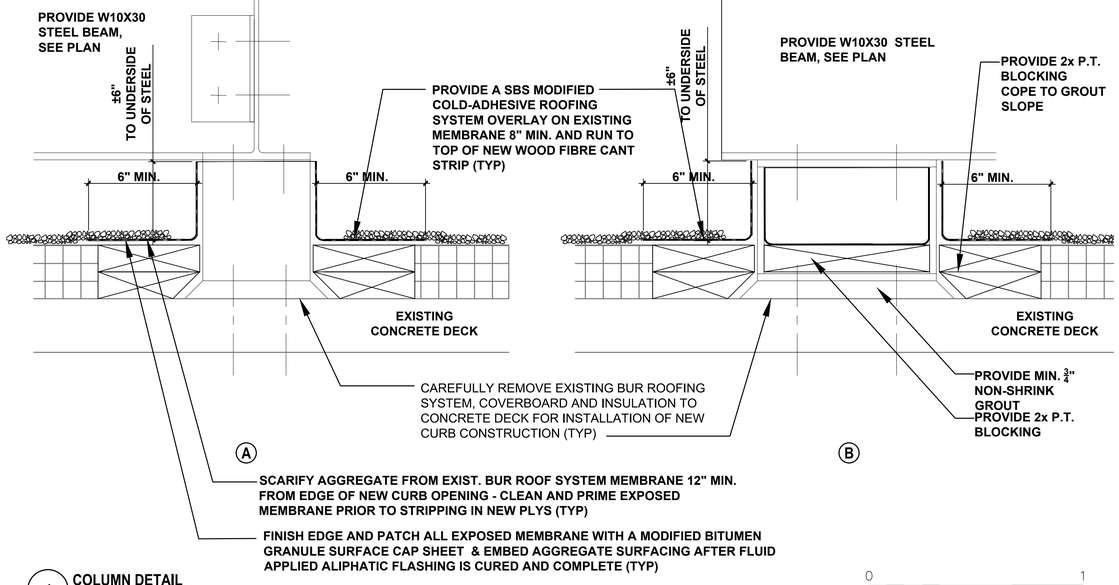
3 COLUMN DETAIL

STRUCTURAL STEEL NOTES:

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "MANUAL OF STEEL CONSTRUCTION" (LATEST EDITION) OR THE "MANUAL FOR STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN" (LATEST EDITION).
2. ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", (LATEST EDITION) OR THE "MANUAL FOR STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN", (LATEST EDITION). BRACED FRAME CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC "SEISMIC PROVISIONS FOR STRUCTURAL BUILDINGS" 2002 EDITION.
3. ALL CONNECTION MATERIAL, BASE PLATES, ANGLES AND MISCELLANEOUS FRAMING SHALL CONFORM TO ASTM STANDARD A-36 UNLESS OTHERWISE NOTED.
4. SHOP AND FIELD CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS MAY BE BOLTED OR WELDED.
5. WHEN INDICATED AS BOLTED ON THE DRAWINGS, ALL SHOP OR FIELD BOLTED BEAM TO BEAM CONNECTIONS SHALL BE BOLTED CONNECTIONS USING 3/4 INCH DIAMETER A325 BEARING BOLTS IN STANDARD HOLES UNLESS SPECIFICALLY NOTED OTHERWISE.
6. OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
7. ALL ANCHOR RODS SHALL CONFORM TO F1554 UNLESS OTHERWISE NOTED.
8. ALL WELDS INDICATED SHALL MEET THE MINIMUM WELD SIZE SPECIFIED BY THE CURRENT AISC MANUAL OF STEEL DESIGN.
9. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH A.W.S. SPECIFICATIONS, (LATEST EDITIONS). ALL WELDING ELECTRODES SHALL CONFORM TO A.W.S. A5.1 GRADE E-70. BARE ELECTRODES AND GRANULAR FLUX SHALL CONFORM TO A.W.S. A5.17, F7O A.W.S. FLUX CLASSIFICATION.
10. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SHOP DRAWINGS TO BE APPROVED PRIOR TO FABRICATING STEEL.



2 PLAN AT NEW DUNNAGE STEEL PLATFORM



4 COLUMN DETAIL

drawing title: ROOF DETAILS

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by: AMES & WHITAKER ARCHITECTS, 31 LIBERTY STREET, SOUTHINGTON, CT

project: WESTERN CT STATE UNIVERSITY, WHITE HALL, 2ND AND 3RD FLOOR RENOVATIONS, DANBURY, CONNECTICUT

CAD no.

project no.: BI-RD-299

date: 07/25/18

scale: AS NOTED

drawn by: SP/CA

approved by: AL

drawing no.: A5.02

ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	WALL NORTH	WALL EAST	WALL SOUTH	WALL WEST	CEILING MATERIAL	CEILING HEIGHT	NOTES	NO.
SECOND FLOOR											
201	CLASSROOM	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"	SEE NOTE 3	201
202	CLASSROOM	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"	SEE NOTE 3	202
204	CLASSROOM	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"	SEE NOTE 3	204
206	PROJ. ROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	ACT	9'-0"	SEE NOTE 2	206
207	CLASSROOM	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"	SEE NOTE 3	207
208	CLASSROOM	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"	SEE NOTE 3	208
209	CLASSROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	209
210	LAB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		210
211	LOUNGE	EXISTING	EXISTING	PT	PT	PT	PT	ACT	9'-0"	PROTECT FLOORS WHILE DOING WORK; SEE NOTE 1	211
212	LAB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		212
213	STORAGE	VCT	RES	PT	PT	PT	PT	EXISTING	EXISTING	PAINT CEILING	213
214	LAB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		214
215	WOMEN'S TOILET	CT-1	CT-2	CT-2/PT	CT-2/PT	CT-2/PT	CT-2/PT	ACT	8'-6"		215
217	LAB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		217
218	CUSTODIAN CLOSET	VCT	RES	PT	PT	PT	PT	EXISTING	EXISTING	PAINT CEILING	218
219	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		219
220-1	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT/ GWB*	7'-0"*	*SEE DRAWING A4.02	220-1
220-2	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	7'-8"		220-2
220-3	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	7'-8"		220-3
220-4	STORAGE	VCT	RES	PT	PT	PT	PT	ACT	7'-8"		220-4
220-5	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	7'-8"		220-5
220-6	STORAGE	VCT	RES	PT	PT	PT	PT	ACT	7'-8"		220-6
220-7	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT/ GWB*	7'-0"*	*SEE DRAWING A4.02	220-7
220-8	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	VARIES*	*VARIES 7'-0" & 7'-8", SEE DRAWING A4.02	220-8
220-9	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	7'-8"		220-9
220-10	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	7'-8"		220-10
220-11	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	7'-8"		220-11
220-12	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	7'-8"		220-12
220-13	STORAGE	VCT	RES	PT	PT	PT	PT	ACT	7'-0"*	*SEE DRAWING A4.02	220-13
220-14	STORAGE	VCT	RES	PT	PT	PT	PT	ACT	7'-0"*	*SEE DRAWING A4.02	220-14
220-15	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	7'-8"		220-15
220-16	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	7'-8"		220-16
220-17	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	7'-8"		220-17
220-18	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	7'-8"		220-18
220-19	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	VARIES*	*VARIES 7'-0" & 7'-8", SEE DRAWING A4.02	220-19
220-20	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT/ GWB*	7'-0"*	*SEE DRAWING A4.02	220-20
220-21	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	7'-8"		220-21
220-22	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	7'-8"		220-22
220-23	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	7'-8"		220-23
220-24	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	7'-8"		220-24
220-25	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT/ GWB	7'-0"*	*SEE DRAWING A4.02	220-25
220-26	CORRIDOR	CARPET	RES	PT	PT	PT	PT	ACT	VARIES*	*VARIES 7'-0" & 7'-8", SEE DRAWING A4.02	220-26
220-27	CORRIDOR	VCT	RES	PT	PT	PT	PT	ACT	VARIES*	*SEE DRAWING A4.02	220-27
220-28	CORRIDOR	CARPET	RES	PT	PT	PT	PT	ACT	VARIES*	*VARIES 7'-0" & 7'-8", SEE DRAWING A4.02	220-28
220-29	CORRIDOR	VCT	RES	PT	PT	PT	PT	ACT	VARIES*	*SEE DRAWING A4.02	220-29
221A	RECEPTION	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		221A
221B	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		221B
222	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		222
223	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		223
224	NURSING LAB	VCT	RES	PT	PT	PT	PT	ACT	9'-0"		224
225	NURSING LAB	VCT	RES	PT	PT	PT	PT	ACT	9'-0"		225
226	NURSING LAB	VCT	RES	PT	PT	PT	PT	ACT	9'-0"		226
227	STORAGE	VCT	RES	PT	PT	PT	PT	EXISTING	EXISTING	PAINT CEILING	227
228	NURSING LAB	VCT	RES	PT	PT	PT	PT	ACT	9'-0"		228
230	MEN'S TOILET	CT-1	CT-2	CT-2/PT	CT-2/PT	CT-2/PT	CT-2/PT	ACT	8'-6"		230
231	CLASSROOM	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"	SEE NOTE 3	231
232	IDF DATA CLOSET	VCT	RES	PT	PT	PT	PT	EX	EX	PAINT CEILING	232
233	LOUNGE	EXISTING	EXISTING	PT	PT	PT	PT	ACT	9'-0"	PROTECT FLOORS WHILE DOING WORK; SEE NOTE 1	233
298A	CORRIDOR	EXISTING	EXISTING	PT	PT	PT	PT	ACT	9'-0"	PROTECT FLOORS WHILE DOING WORK; SEE NOTE 1	298A
298B	CORRIDOR	EXISTING	EXISTING	PT	PT	PT	PT	ACT	9'-0"	PROTECT FLOORS WHILE DOING WORK; SEE NOTE 1	298B
298C	CORRIDOR	EXISTING	EXISTING	PT	PT	PT	PT	ACT	9'-0"	PROTECT FLOORS WHILE DOING WORK; SEE NOTE 1	298C

ROOM FINISH LEGEND - BASIS OF DESIGN

CEILING TILE
ACT-2x2 NON-TEGULAR

CARPET
CARPET - PATCRAFT CONUNDRUM MODULAR "CHESS" 18361

CERAMIC TILE
CT-1 - DAL-TILE UNGLAZED CERAMIC MOSAIC, D175 ELEMENTAL TAN SPECKLE WITH GROUT LATICRETE #30 SAND BEIGE

CT-2/PT - DAL-TILE GLAZED TILE, K165 ALMOND WITH GROUT LATICRETE #85 ALMOND/ BENJAMIN MOORE GREENWICH VILLAGE #445

VINYL COMPOSITION TILE
VCT - ARMSTRONG IMPERIAL TEXTURE STANDARD EXCELON #51927 FIELD GRAY

BASE
RES - JOHNSONITE #84 BLUE JEANS

SOLID SURFACE TOILET PARTITION
CORIAN "MAUI"

PAINT KEY - BASIS OF DESIGN

LOCATION	MANF	COLOR	FINISH
TYPICAL WALL PAINT	PITT	DRIFTING DUNE #417-3	EGGSHELL
DOOR & WINDOW TRIM	PITT	DRIFTING DUNE #417-3	SEMI-GLOSS
ACCENT WALL	PITT	WOODBRIDGE #413-6	EGGSHELL
SPANDREL & DOOR FRAMES	P&L	HERON #POR-1290-000	SEMI-GLOSS

PAINT MANUFACTURER PITT= PITTSBURGH PAINT P&L = PRATT & LAMBERT

NOTE:

1. CARRY WALL PAINT DOWN TO HALF INTEGRAL WALL BASE.
2. ALL INTERIOR-SIDE WOOD TRIM AT EXISTING CORRIDOR DOORS TO BE PAINTED P-1A.
3. ALL NEW WOOD WINDOW SILLS TO BE PAINTED P-1A.
4. ALL RADIATORS TO BE PAINTED TO MATCH WALL COLOR IN SEMI-GLOSS.
5. REMOVE ROOM NUMBERS FROM DOOR FRAMES BEFORE REPAINTING.
6. COORDINATE FINAL COLOR SELECTIONS WITH OWNER
7. ACCENT WALL IS FRONT OF CLASSROOM, COORDINATE WITH OWNER

NOTES:

1. TOUCH PAINT AT DAMAGED AREAS FROM CONSTRUCTION. PAINT TO NEAREST CUT OFF/ CORNER POINT.
2. REMOVE EXISTING ACT TO INSTALL NEW MEP WORK. REINSTALL TILES - 25% TO BE NEW TILES TO REPLACE ANY DAMAGED TILES.
3. PROVIDE (2) 4'X8' WHITEBOARDS. COORDINATE LOCATION WITH OWNER.

drawing title
SECOND FLOOR
ROOM FINISH SCHEDULE

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	
	1/21/19	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
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project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no. BI-RD-299

date 07/25/18
scale AS NOTED
drawn by CA/SP
approved by AL
drawing no. **A6.01**

ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	WALL				CEILING		NOTES	NO.
				NORTH	EAST	SOUTH	WEST	MATERIAL	HEIGHT		
THIRD FLOOR											
301	CLASSROOM	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"	SEE NOTE 3	301
302	LAB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	302
305	LAB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	305
306	CLASSROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	306
307	CLASSROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	307
309	LOUNGE	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		309
310	IDF ROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		310
311	WOMEN'S TOILET	CT-1	CT-2	CT-2/PT	CT-2/PT	CT-2/PT	CT-2/PT	ACT	9'-0"		311
313	STORAGE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		313
314	CLASSROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	314
314B	CLASSROOM	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"	SEE NOTE 3	314B
315	OFFICES	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	315
316	COMPUTER LAB	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		316
316A	OFFICES	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	316A
317	OFFICES	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	317
317A	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	317A
317B	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	317B
317C	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	317C
317D	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	317D
318	OFFICES	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	318
318A	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	318A
318B	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	318B
318C	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	318C
319	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	319
320	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	320
321	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	321
322	RECEPTION	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ ACT	9'-0"	SEE NOTE 2	322
322A	CONFERENCE	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		322A
324	CONFERENCE OR GROUP SPACE	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		324
325	CORRIDOR	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		325
325A	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		325A
325B	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		325B
325C	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		325C
325D	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		325D
326	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EX/ACT	EXISTING	SEE NOTE 2	326
327	JAN.	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		327
328	MEN'S TOILET	CT-1	CT-2	CT-2/PT	CT-2/PT	CT-2/PT	CT-2/PT	ACT	9'-0"		328
329	STORAGE	VCT	RES	PT	PT	PT	PT	ACT	9'-0"		329
329A	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		329A
329B	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		329B
329C	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		329C
329D	OFFICE	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		329D
330	STORAGE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		330
331	LOUNGE	CARPET	RES	PT	PT	PT	PT	ACT	9'-0"		331
398A	CORRIDOR	EXISTING	EXISTING	PT	PT	PT	PT	ACT	9'-0"	PROTECT FLOORS WHILE DOING WORK; SEE NOTE 1	398A
398B	CORRIDOR	EXISTING	EXISTING	PT	PT	PT	PT	ACT	9'-0"	PROTECT FLOORS WHILE DOING WORK; SEE NOTE 1	398B
398C	CORRIDOR	EXISTING	EXISTING	PT	PT	PT	PT	ACT	9'-0"	PROTECT FLOORS WHILE DOING WORK; SEE NOTE 1	398C

ROOM FINISH LEGEND - BASIS OF DESIGN

CEILING TILE
ACT-2x2 NON-TEGULAR

CARPET
CARPET - PATCRAFT CONUNDRUM MODULAR "CHESS" 18361

CERAMIC TILE
CT-1 - DAL-TILE UNGLAZED CERAMIC MOSAIC, D175 ELEMENTAL TAN SPECKLE WITH GROUT LATICRETE #30 SAND BEIGE

CT-2/PT - DAL-TILE GLAZED CERAMIC, 1"X1" MATTE BISCUIT WITH GROUT LATICRETE #85 ALMOND/ BENJAMIN MOORE GREENWICH GRAY ORANGE #445

VINYL COMPOSITION TILE
VCT - ARMSTRONG IMPERIAL TEXTURE STANDARD EXCELON #51927 FIELD GRAY

BASE
RES - JOHNSONITE #84 BLUE JEANS

SOLID SURFACE TOILET PARTITION
CORIAN "MAUI"

PAINT KEY - BASIS OF DESIGN

LOCATION	MANF	COLOR	FINISH
TYPICAL WALL PAINT	PITT	DRIFTING DUNE #417-3	EGGSHELL
DOOR & WINDOW TRIM	PITT	DRIFTING DUNE #417-3	SEMI-GLOSS
ACCENT WALL	PITT	WOODBRIDGE #413-6	EGGSHELL
SPANDREL & DOOR FRAMES	P&L	HERON #POR-1290-000	SEMI-GLOSS

PAINT MANUFACTURER PITT= PITTSBURGH PAINT P&L = PRATT & LAMBERT

NOTE:
1. CARRY WALL PAINT DOWN TO HALF INTEGRAL WALL BASE.
2. ALL INTERIOR-SIDE WOOD TRIM AT EXISTING CORRIDOR DOORS TO BE PAINTED P-1A.
3. ALL NEW WOOD WINDOW SILLS TO BE PAINTED P-1A.
4. ALL RADIATORS TO BE PAINTED TO MATCH WALL COLOR IN SEMI-GLOSS.
5. REMOVE ROOM NUMBERS FROM DOOR FRAMES BEFORE REPAINTING.
6. COORDINATE FINAL COLOR SELECTIONS WITH OWNER
7. ACCENT WALL IS FRONT OF CLASSROOM, COORDINATE WITH OWNER

NOTES:

1. TOUCH PAINT AT DAMAGED AREAS FROM CONSTRUCTION. PAINT TO NEAREST CUT OFF/ CORNER POINT.
2. REMOVE EXISTING ACT TO INSTALL NEW MEP WORK. REINSTALL TILES - 25% TO BE NEW TILES TO REPLACE ANY DAMAGED TILES.
3. PROVIDE (2) 4'X8' WHITEBOARDS. COORDINATE LOCATION WITH OWNER.

drawing title
THIRD FLOOR
ROOM FINISH SCHEDULE

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

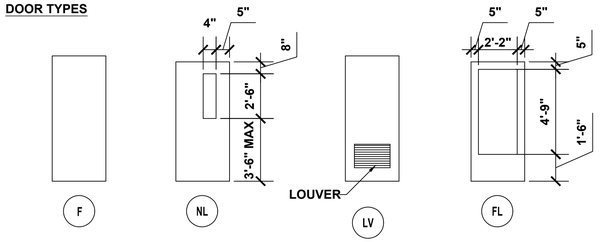
CAD no.
project no. BI-RD-299

date 07/25/18
scale AS NOTED
drawn by SP/CA
approved by AL
drawing no. **A6.02**

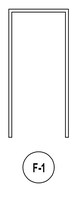
DOOR SCHEDULE

NO.	LOCATION	SIZE	DOOR					FRAME							NOTES	NO.
			TYPE	MATL	FINISH	GLAZING	RATING	TYPE	MATL	FINISH	RATING	HEAD	JAMB	SILL		
XXXX	TYPE LOCATION THIS LINE	3'-0"x7'-0"x1¾"		WD	STAIN											XXXX
201	FROM CLASSROOM 201 TO CORRIDOR 298A	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-1	J-1	S-1	SEE NOTE 1	201
202	FROM CLASSROOM 202 TO CORRIDOR 298A	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-1	J-1	S-1	SEE NOTE 1	202
204	FROM CLASSROOM 204 TO CORRIDOR 298A	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3	204
207A	FROM CLASSROOM 207 TO CORRIDOR 298A	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3	207A
207B	FROM CLASSROOM 207 TO CORRIDOR 298A	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3	207B
208	FROM CLASSROOM 208 TO CORRIDOR 298A	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3	208
213	FROM STORAGE 213 TO CORRIDOR 298C	EXISTING	EXISTING	EXISTING	PT	----	EXISTING	EXISTING	EXISTING	PT	EXISTING	-	-	-	SEE NOTE 2	213
215	FROM WOMEN'S 215 TO CORRIDOR 298C	3'-0"x7'-0"x1¾"	LV	WD	STAIN	----	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3 AND MARBLE THRESHOLD	215
218	FROM CUSTODIAN CLOSET 218 TO CORRIDOR 298C	3'-0"x7'-0"x1¾"	F	WD	STAIN	----	20 MIN.	EXISTING	EXISTING	PT	20 MIN.					218
220-1	FROM OFFICE 220-1 TO CORRIDOR 220-28	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-1
220-2	FROM OFFICE 220-2 TO CORRIDOR 220-28	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-2
220-3	FROM OFFICE 220-3 TO CORRIDOR 220-28	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-3
220-4	FROM STORAGE 220-4 TO CORRIDOR 220-28	3'-0"x6'-8"x1¾"	F	WD	STAIN	----	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-4
220-5	FROM OFFICE 220-5 TO CORRIDOR 220-28	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-5
220-6	FROM STORAGE 220-6 TO CORRIDOR 220-28	3'-0"x6'-8"x1¾"	F	WD	STAIN	----	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-6
220-7	FROM OFFICE 220-7 TO CORRIDOR 220-28	3'-0"x7'-0"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-7
220-8	FROM OFFICE 220-8 TO CORRIDOR 220-28	3'-0"x7'-0"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-8
220-9	FROM OFFICE 220-9 TO CORRIDOR 220-28	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-9
220-10	FROM OFFICE 220-10 TO CORRIDOR 220-28	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-10
220-11	FROM OFFICE 220-11 TO CORRIDOR 220-28	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-11
220-12	FROM OFFICE 220-12 TO CORRIDOR 220-28	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-12
220-13	FROM STORAGE 220-13 TO CORRIDOR 220-28	3'-0"x6'-8"x1¾"	F	WD	STAIN	----	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-13
220-14	FROM STORAGE 220-14 TO CORRIDOR 220-26	3'-0"x6'-8"x1¾"	F	WD	STAIN	----	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-14
220-15	FROM OFFICE 220-15 TO CORRIDOR 220-26	3'-0"x7'-0"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-15
220-16	FROM OFFICE 220-16 TO CORRIDOR 220-26	3'-0"x7'-0"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-16
220-17	FROM OFFICE 220-17 TO CORRIDOR 220-26	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-17
220-18	FROM OFFICE 220-18 TO CORRIDOR 220-26	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-18
220-19	FROM OFFICE 220-19 TO CORRIDOR 220-26	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-19
220-20	FROM OFFICE 220-20 TO CORRIDOR 220-26	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-20
220-21	FROM OFFICE 220-21 TO CORRIDOR 220-26	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-21
220-22	FROM OFFICE 220-22 TO CORRIDOR 220-26	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-22
220-23	FROM OFFICE 220-23 TO CORRIDOR 220-26	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-23
220-24	FROM OFFICE 220-24 TO CORRIDOR 220-26	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-24
220-25	FROM OFFICE 220-25 TO CORRIDOR 220-26	3'-0"x6'-8"x1¾"	FL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		220-25
220-27	FROM CORRIDOR 220-27 TO CORRIDOR 298C	3'-0"x6'-8"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3	220-27
220-29	FROM CORRIDOR 220-29 TO CORRIDOR 298B	3'-0"x6'-8"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3	220-29
221A	NOT USED															221A
221B	FROM RECEPTION 221A TO OFFICE 221B	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-1	J-1	S-1		221B
221C	FROM RECEPTION 221A TO CORRIDOR 298C	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-1	J-1	S-1		221C
222	FROM OFFICE 222 TO CORRIDOR 298C	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3	222
223	FROM OFFICE 223 TO CORRIDOR 298B	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3	223
224	FROM NURSING LAB 224 TO CORRIDOR 298B	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3	224
225A	FROM NURSING LAB 225 TO CORRIDOR 298B	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3	225A
225B	FROM NURSING LAB 225 TO NURSING LAB 224	3'-0"x7'-0"x1¾"	NL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-2	J-2	S-1	SEE NOTE 3	225B
226	FROM NURSING LAB 226 TO CORRIDOR 298B	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3	226
227	FROM STORAGE 227 TO CORRIDOR 298B	3'-0"x7'-0"x1¾"	F	WD	STAIN	----	20 MIN.	EXISTING	EXISTING	PT	EXISTING	-	-	-		227
228A	FROM NURSING LAB 228 TO NURSING LAB 226	3'-0"x7'-0"x1¾"	NL	WD	STAIN	TEMPERED	-	F-1	H.M.	PT	-	H-1	J-1	S-1		228A
228B	FROM NURSING LAB 228 TO CORRIDOR 298B	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3	228B
230	FROM MEN'S TOILET 230 TO CORRIDOR 298B	3'-0"x7'-0"x1¾"	LV	WD	STAIN	----	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3 AND MARBLE THRESHOLD	230
231	FROM CLASSROOM 231 TO CORRIDOR 298B	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 1, 3	231
232	FROM IDF DATA CLOSET 232 TO CORRIDOR 298B	EXISTING	EXISTING	EXISTING	EXISTING	PT	----	EXISTING	EXISTING	EXISTING	PT	EXISTING	-	-	-	SEE NOTE 2	232

DOOR TYPES



FRAME TYPES



NOTES:

1. MODIFICATIONS AT EXISTING DOOR OPENINGS FOR ACCESSIBLE CLEARANCE, SEE DRAWINGS A6.05 AND A6.06.

2. EXISTING DOOR AND FRAME TO REMAIN. PAINT DOOR & FRAME THE WALL COLOR.

3. TOOTH IN BRICK WALLS AT NEW HM FRAMES, SEE DETAIL 1/A6.05

4. REFER TO PROJECT MANUAL SECTION 08 71 00 FOR DOOR HARDWARE SCHEDULE.

drawing title
SECOND FLOOR
DOOR SCHEDULE

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	
	1/21/19	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.

project no.
BI-RD-299

date
07/25/18

scale
AS NOTED

drawn by
CA/SP

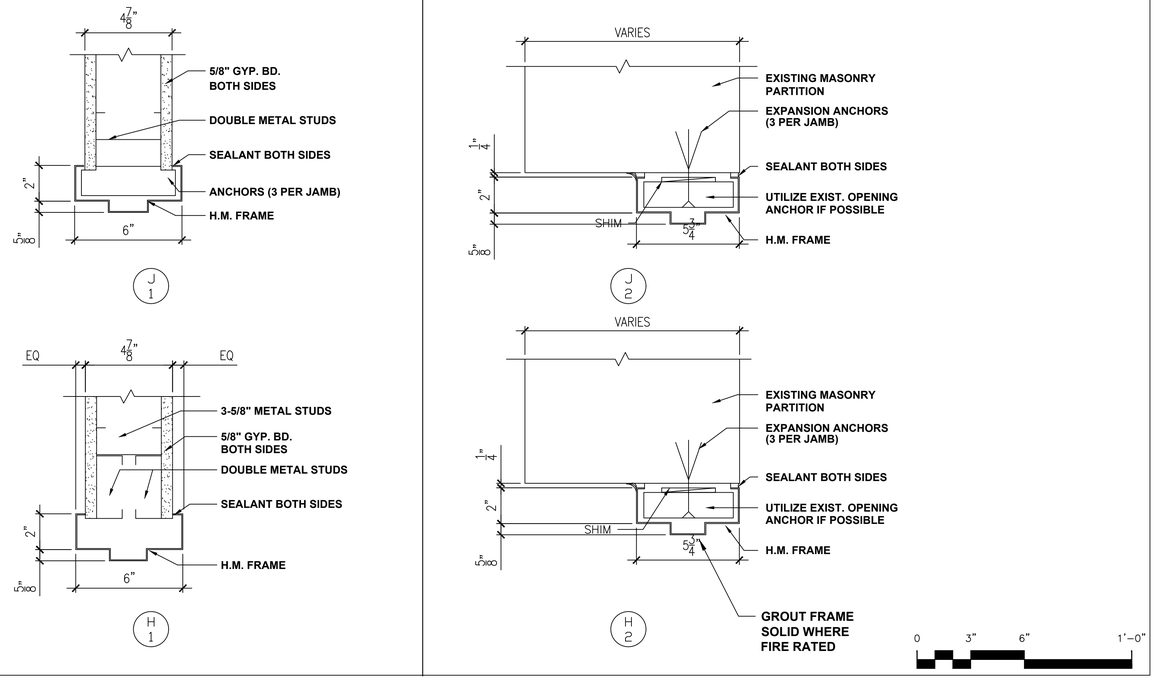
approved by
AL

drawing no.
A6.03

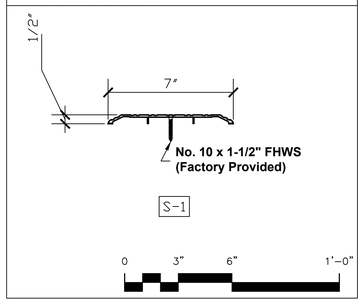
DOOR SCHEDULE

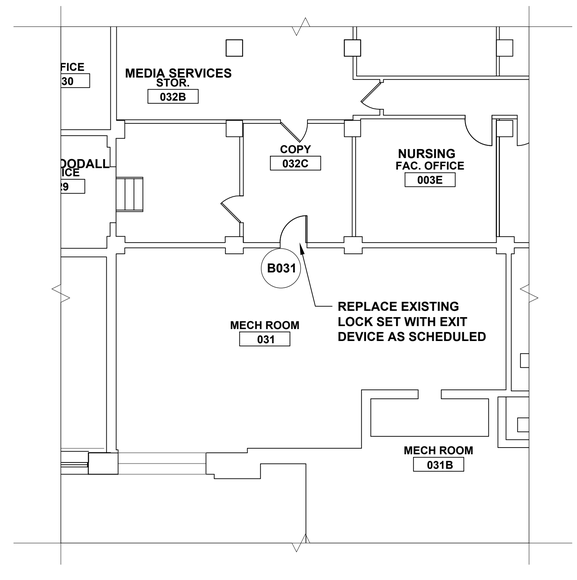
NO.	LOCATION	SIZE	DOOR					FRAME							NOTES	NO.
			TYPE	MATL	FINISH	GLAZING	RATING	TYPE	MATL	FINISH	RATING	HEAD	JAMB	SILL		
301	FROM CLASSROOM 301 TO CORRIDOR 398A	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 1, 3	301
310	FROM IDF ROOM 310 TO CORRIDOR 398C	EXISTING	EXISTING	EXISTING	PT		EXISTING	EXISTING	EXISTING	PT	EXISTING	-	-	-	SEE NOTE 2	310
311	FROM WOMEN'S 311 TO CORRIDOR 398C	3'-0"x7'-0"x1¾"	LV	WD	STAIN	----	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3, AND MARBLE THRESHOLD	311
314B	FROM CLASSROOM 314B TO CORRIDOR 398C	3'-0"x7'-0"x1¾"	NL	WD	STAIN	D-20	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 1, 3	314B
322A	FROM CONFERENCE ROOM 322A TO CORRIDOR 398B	3'-0"x7'-0"x1¾"		WD	STAIN		20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3	322A
325	FROM CORRIDOR 325 TO CORRIDOR 398B	3'-0"x7'-0"x1¾"	NL	WD	STAIN	----	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 1, 3	325
325A	FROM OFFICE 325A TO CORRIDOR 325	3'-0"x7'-0"x1¾"	F	WD	STAIN	----	20 MIN.	F-1	H.M.	PT	20 MIN.	H-1	J-1	S-1		325A
325B	FROM OFFICE 325B TO CORRIDOR 325	3'-0"x7'-0"x1¾"	F	WD	STAIN	----	20 MIN.	F-1	H.M.	PT	20 MIN.	H-1	J-1	S-1		325B
325C	FROM OFFICE 325C TO CORRIDOR 325	3'-0"x7'-0"x1¾"	F	WD	STAIN	----	20 MIN.	F-1	H.M.	PT	20 MIN.	H-1	J-1	S-1		325C
325D	FROM OFFICE 325D TO CORRIDOR 325	3'-0"x7'-0"x1¾"	F	WD	STAIN	----	20 MIN.	F-1	H.M.	PT	20 MIN.	H-1	J-1	S-1		325D
328	FROM MEN'S TOILET 328 TO CORRIDOR 398B	3'-0"x7'-0"x1¾"	LV	WD	STAIN	----	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 3, AND MARBLE THRESHOLD	328
329	FROM OFFICE 329 TO CORRIDOR 398B	3'-0"x7'-0"x1¾"	NL	WD	STAIN	----	20 MIN.	F-1	H.M.	PT	20 MIN.	H-2	J-2	S-1	SEE NOTE 1, 3	329
329A	FROM OFFICE 329A TO OFFICE 329	3'-0"x7'-0"x1¾"	F	WD	STAIN	----	20 MIN.	F-1	H.M.	PT	20 MIN.	H-1	J-1	S-1		329A
329B	FROM OFFICE 329B TO OFFICE 329	3'-0"x7'-0"x1¾"	F	WD	STAIN	----	20 MIN.	F-1	H.M.	PT	20 MIN.	H-1	J-1	S-1		329B
329C	FROM OFFICE 329C TO OFFICE 329	3'-0"x7'-0"x1¾"	F	WD	STAIN	----	20 MIN.	F-1	H.M.	PT	20 MIN.	H-1	J-1	S-1		329C
329D	FROM OFFICE 329D TO OFFICE 329	3'-0"x7'-0"x1¾"	F	WD	STAIN	----	20 MIN.	F-1	H.M.	PT	20 MIN.	H-1	J-1	S-1		329D
330	FROM STORAGE 330 TO CORRIDOR 398B	EXISTING	EXISTING	EXISTING	PT		EXISTING	EXISTING	EXISTING	PT	EXISTING	-	-	-	SEE NOTE 2	330

DOOR DETAILS



SILL DETAIL



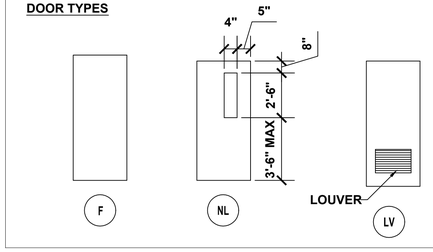


1 BASEMENT MECHANICAL ROOM PLAN

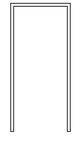
0 8' 16'

FOR PLAN OF ENTIRE FLOOR SEE SHEET EP1.00

DOOR TYPES



FRAME TYPES



NOTES:

1. MODIFICATIONS AT EXISTING DOOR OPENINGS FOR ACCESSIBLE CLEARANCE, SEE DRAWINGS A6.05 AND A6.06.
2. EXISTING DOOR AND FRAME TO REMAIN. PAINT DOOR & FRAME THE WALL COLOR.
3. TOOTH IN BRICK WALLS AT NEW HM FRAMES, SEE DETAIL 1/A6.05
4. REFER TO PROJECT MANUAL SECTION 08 71 00 FOR DOOR HARDWARE SCHEDULE.

drawing title: THIRD FLOOR DOOR SCHEDULE

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	
	10/11/18	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by: AMES & WHITAKER ARCHITECTS, 31 LIBERTY STREET, SOUTHINGTON, CT

project: WESTERN CT STATE UNIVERSITY, WHITE HALL, 2ND AND 3RD FLOOR RENOVATIONS, DANBURY, CONNECTICUT

CAD no.

project no. BI-RD-299

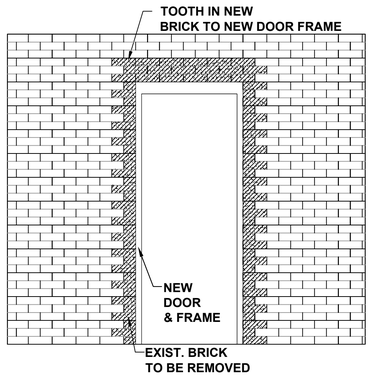
date 07/25/18

scale AS NOTED

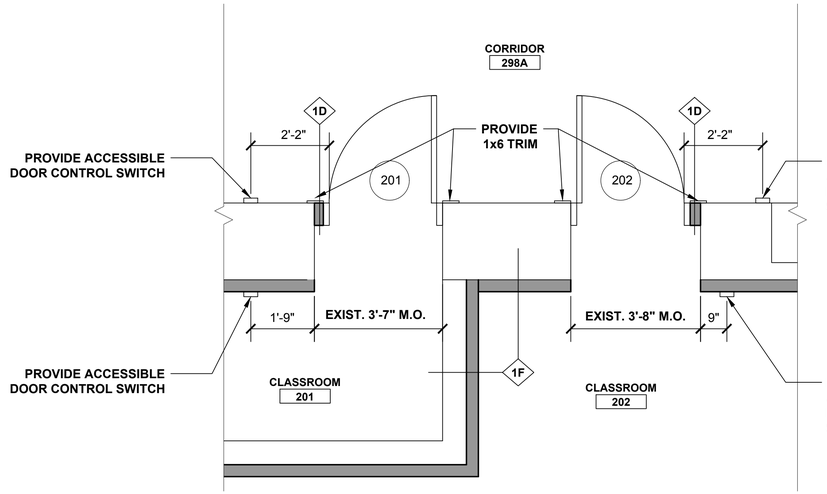
drawn by SP/CA

approved by AL

drawing no. A6.04

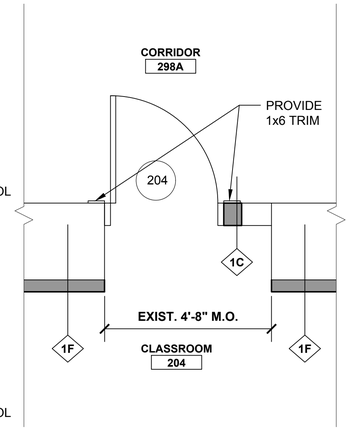


1 NEW DOOR AND FRAME IN EXISTING MASONRY WALL

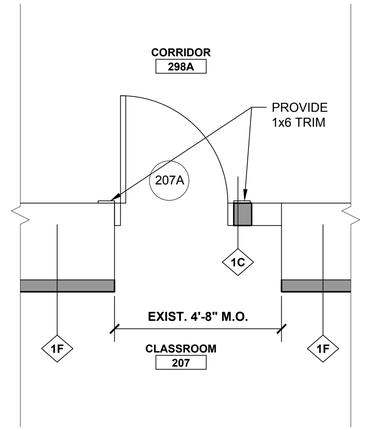


2 DETAIL PLAN AT DOORS 201 & 202

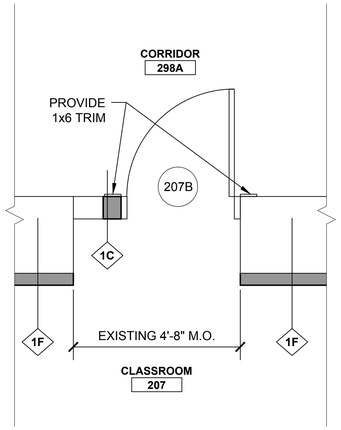
PROVIDE ACCESSIBLE POWER DOOR SWITCH



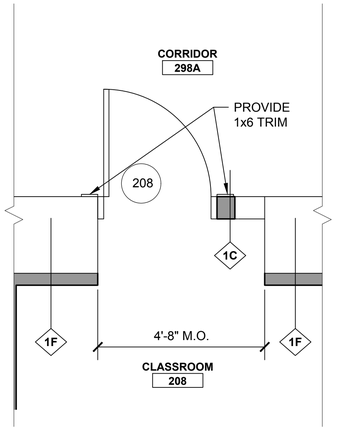
3 DETAIL PLAN AT DOOR 204



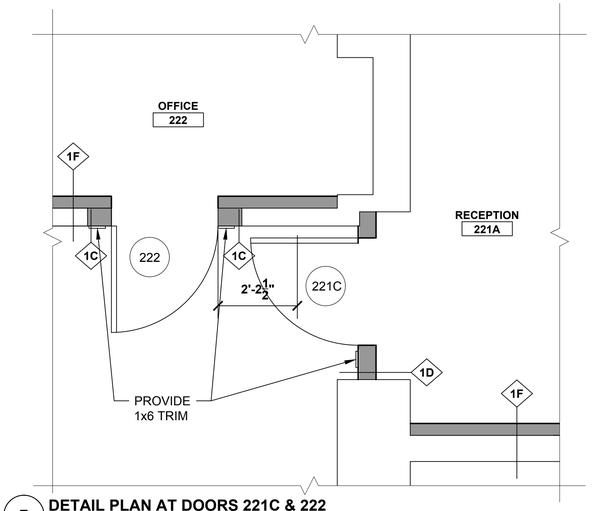
4 DETAIL PLAN AT DOOR 207A



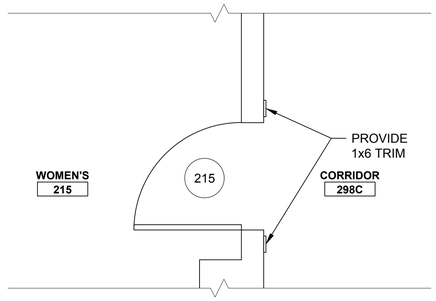
5 DETAIL PLAN AT DOOR 207B



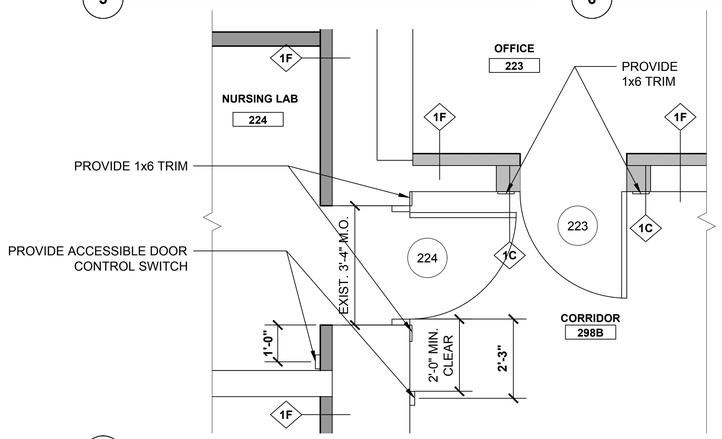
6 DETAIL PLAN AT DOOR 208



7 DETAIL PLAN AT DOORS 221C & 222

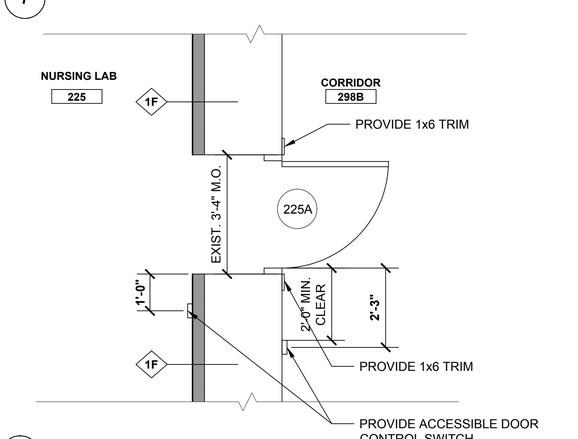


8 DETAIL PLAN AT DOOR 215



9 DETAIL PLAN AT DOOR 223 & 224

PROVIDE ACCESSIBLE POWER DOOR SWITCH AT DOOR 224



10 DETAIL PLAN AT DOOR 225A

PROVIDE ACCESSIBLE POWER DOOR SWITCH

0 1 2 3 4

drawing title
DOOR AND WALL DETAILS

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	
	1/21/19	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.

project no.
BI-RD-299

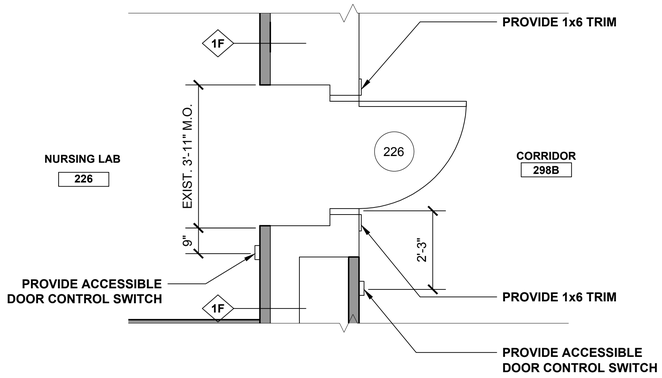
date
07/25/18

scale
AS NOTED

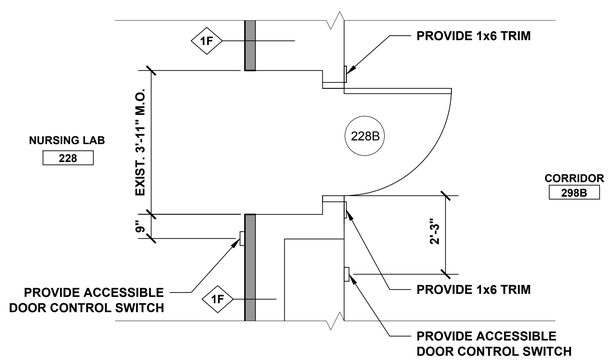
drawn by
SP/CA

approved by
AL

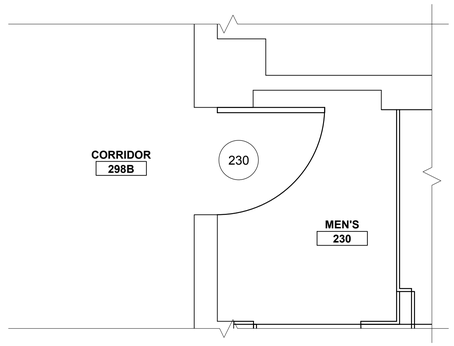
drawing no.
A6.05



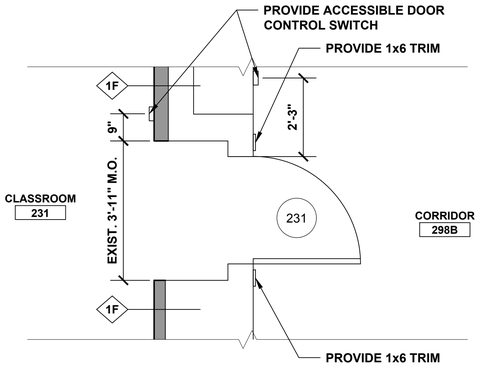
1 **DETAIL PLAN AT DOOR 226**
PROVIDE ACCESSIBLE POWER DOOR SWITCH



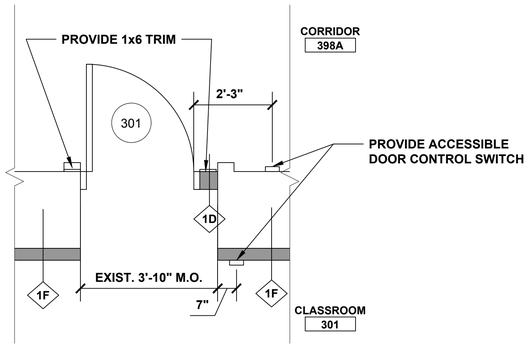
2 **DETAIL PLAN AT DOOR 228B**
PROVIDE ACCESSIBLE POWER DOOR SWITCH



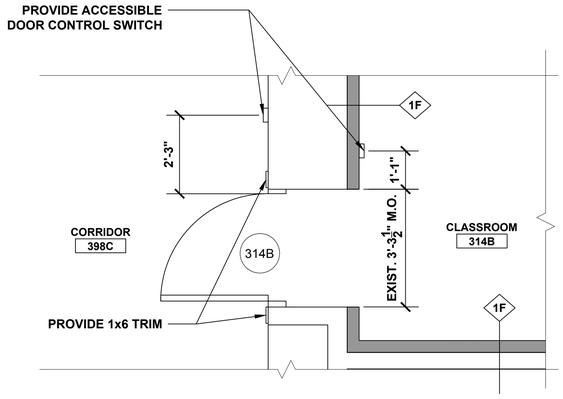
3 **DETAIL PLAN AT DOOR 230**



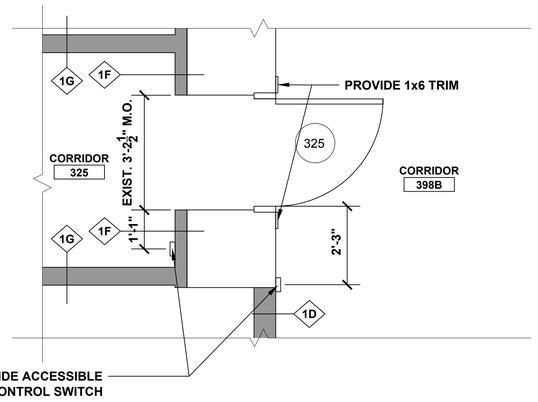
4 **DETAIL PLAN AT DOOR 231**
PROVIDE ACCESSIBLE POWER DOOR SWITCH



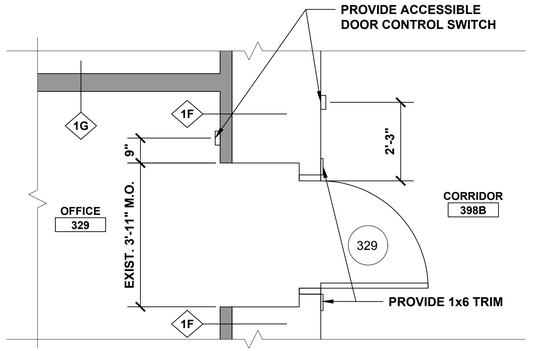
6 **DETAIL PLAN AT DOOR 301**
PROVIDE ACCESSIBLE POWER DOOR SWITCH



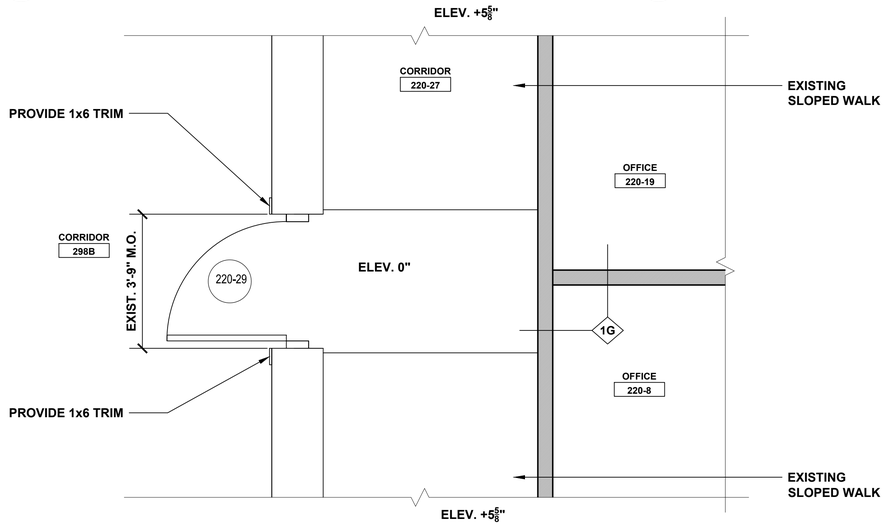
7 **DETAIL PLAN AT DOOR 314B**
PROVIDE ACCESSIBLE POWER DOOR SWITCH



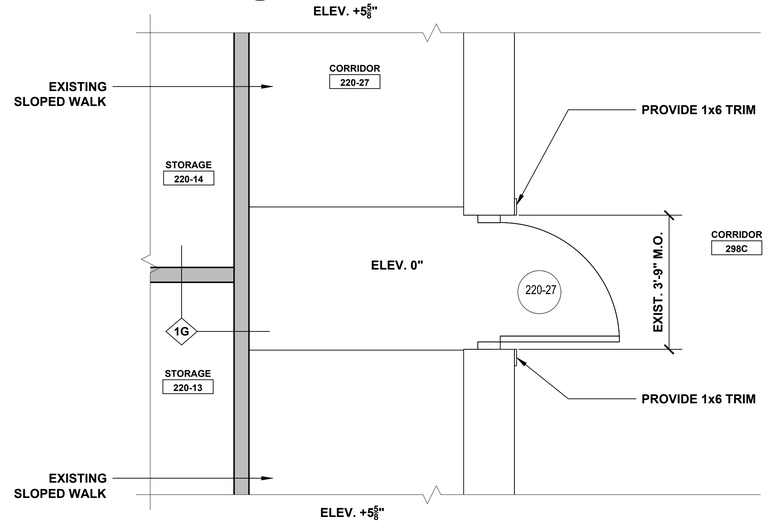
8 **DETAIL PLAN AT DOOR 325**
PROVIDE ACCESSIBLE POWER DOOR SWITCH



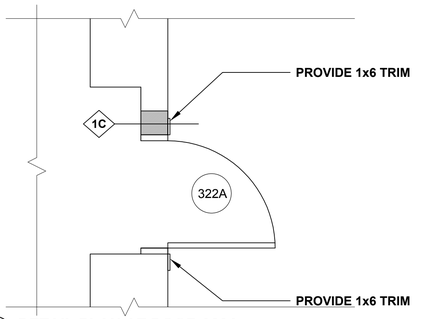
9 **DETAIL PLAN AT DOOR 329**
PROVIDE ACCESSIBLE POWER DOOR SWITCH



10 **DETAIL PLAN AT DOOR 220-29**
PROVIDE ACCESSIBLE POWER DOOR SWITCH



11 **DETAIL PLAN AT DOOR 220-27**
PROVIDE ACCESSIBLE POWER DOOR SWITCH



12 **DETAIL PLAN AT DOOR 322A**

0 1 2 3 4

drawing title
DOOR AND WALL DETAILS

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	
	1/21/19	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

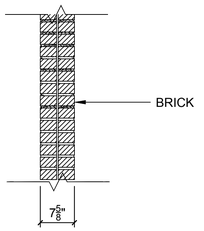
drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

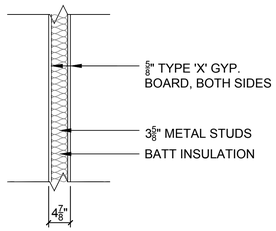
CAD no.
project no. BI-RD-299

date 07/25/18
scale AS NOTED
drawn by SP/CA
approved by AL
drawing no. **A6.06**

WALL TYPES

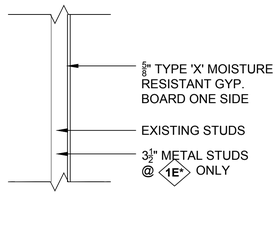


1C



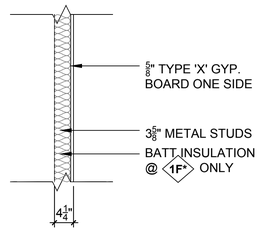
1D

UL # U404 - 1 HR RATED



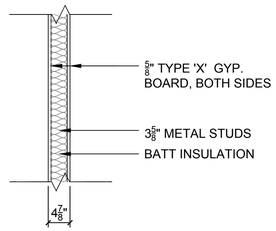
1E

1E* 3 1/2" METAL STUDS



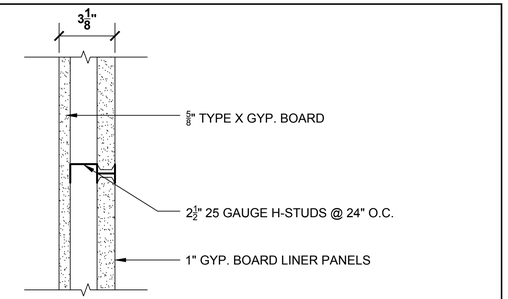
1F

1F* BATT INSULATION



1G

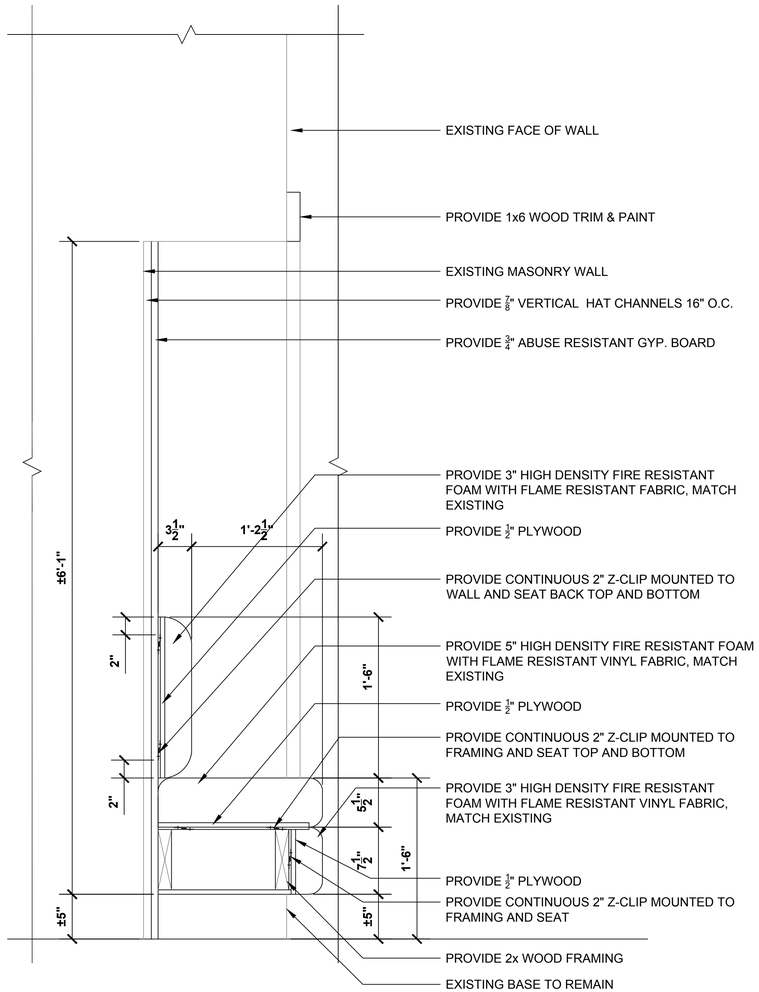
0 1 2 3 4



UL # U415 - 1 HOUR RATED

SHAFT WALL

0 1



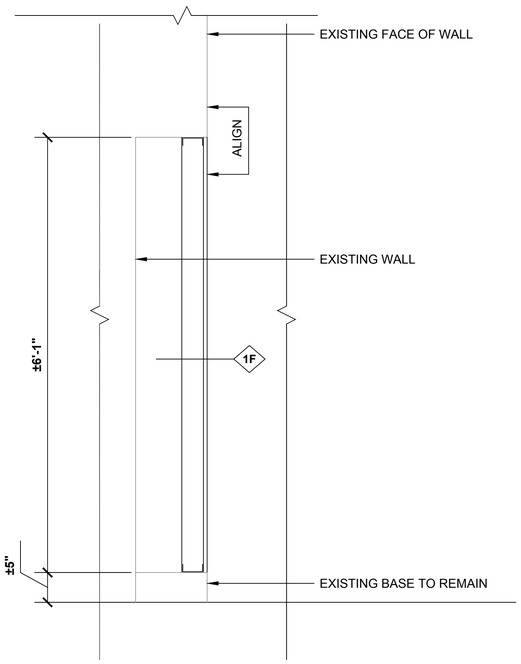
1 **BENCH DETAIL**

0 1 2

FABRIC:

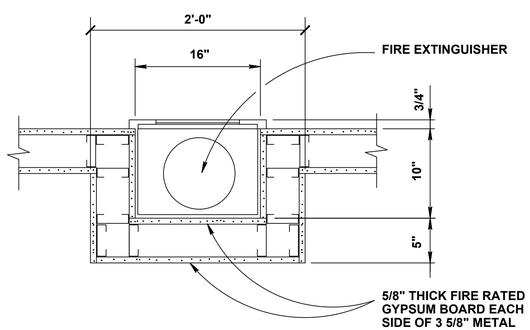
SEAT BACK FABRIC: STINSON "TRACING" COLLECTION: #6631 YACHT BLUE

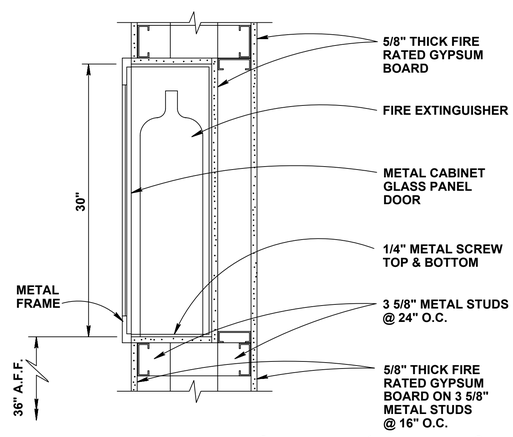
SEAT FABRIC: ARCCOM "FRONTIER" COLLECTION: #AC-67495 AVOCADO



2 **LOCKER INFILL DETAIL**

0 1 2 3





4 **FIRE EXTINGUISHER CABINET DETAIL**

0 1 2

drawing title
WALL TYPES & DETAILS

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

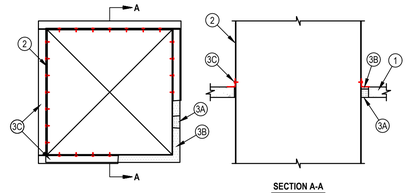
date 07/25/18
scale AS NOTED
drawn by SP/CA
approved by AL
drawing no. **A6.07**

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no. BI-RD-299

System No. C-AJ-7111

F Rating – 2 Hr
T Rating -- 0 Hr



1. FLOOR OR WALL ASSEMBLY -- MIN 2-1/2 IN. (64 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE FLOOR OR MIN 3 IN. (76 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX AREA OF OPENING IS 7.1 SQ FT (0.66 M2) WITH MAX DIMENSION OF 32 IN. (813 MM). SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. STEEL DUCT -- MAX 30 BY 30 IN. (762 BY 762 MM) NO. 24 GAUGE (OR HEAVIER) STEEL DUCT. ONE DUCT TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM WITH A MIN 1/4 IN. (6 MM) TO MAX 1-3/4 IN. (44 MM) ANNULAR SPACE. STEEL DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

3. FIRESTOP SYSTEM -- THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. PACKING MATERIAL -- MIN 2 IN. (51 MM) THICKNESS OF MIN 4 PCF (64 KG/M3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B. FILL, VOID OR CAVITY MATERIAL* -- SEALANT -- MIN 1/2 IN. (13 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-ONE SEALANT
   C. STEEL ANGLE -- MIN 2 IN. (51 MM) WIDE BY 2 IN. (51 MM) HIGH NO. 16 GAUGE (OR HEAVIER) STEEL ANGLE CUT TO FIT THE CONTOUR OF THE DUCT WITH A MIN 1/4 IN. (6 MM) LAP ON THE TOP SURFACE OF FLOOR OR ON BOTH SURFACES OF WALL ON ALL SIDES OF THE OPENING. LEGS OF ANGLES SECURED TO DUCT WITH NO. 8 BY 3/4 IN. (19 MM) LONG STEEL SHEET METAL SCREWS SPACED MAX 4 IN. (102 MM) OC.

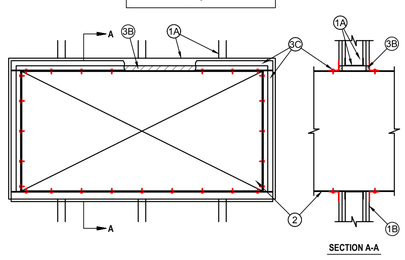
*BEARING THE UL CLASSIFICATION MARK

2 SHEET METAL DUCT THROUGH CONCRETE FLOOR OR WALL (5.5.7)

MAX. OPENING 32x32

System No. W-L-7155

F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr



1. WALL ASSEMBLY — THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U400 OR V400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS — WALL FRAMING SHALL CONSIST OF MIN 3-1/2 IN. (89 MM) WIDE STEEL CHANNEL STUDS SPACED MAX 24 IN. (610 MM) OC. ADDITIONAL STEEL STUDS SHALL BE USED TO COMPLETELY FRAME THE OPENING.
   B. GYPSUM BOARD* — 5/8 IN. (16 MM) THICK, 4 FT (1.22 M) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX AREA OF OPENING IS 73.7 SQ FT (6.85 M2) WITH A MAX DIMENSION OF 104 IN. (2.64 M).
   THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. STEEL DUCT — MAX 100 IN. BY 100 IN. (2.5 BY 2.5 M) GALV STEEL DUCT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE DUCT SHALL BE CONSTRUCTED AND REINFORCED IN ACCORDANCE WITH SMACNA CONSTRUCTION STANDARDS. THE SPACE BETWEEN THE STEEL DUCT AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 2 IN. (51 MM). STEEL DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY.

*BEARING THE UL CLASSIFICATION MARK

Max Duct Dimension	Duct Thickness	Annular Space	Packing Material	Angle (Item 3C) Required
24 in. (610 mm)	24 ga or heavier	1/2 in. min to 1 in. max (13 to 25 mm)	Item 3A	No

3 FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. PACKING MATERIAL — (OPTIONAL, NOT SHOWN) — POLYETHYLENE BACKER ROD, MINERAL WOOL BATT INSULATION OR FIBERGLASS BATT INSULATION FRICTION FITTED INTO ANNULAR SPACE. PACKING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   A1. PACKING MATERIAL — REQUIRED AS SPECIFIED IN TABLE BELOW. MIN 3-3/4 IN. (95 MM) OR 5 IN. (127 MM) THICKNESS OF MIN 4 PCF (64 KG/M3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM FOR 1 AND 2 HR RATED ASSEMBLIES, RESPECTIVELY. PACKING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B. FILL, VOID OR CAVITY MATERIAL* — SEALANT — MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE POINT CONTACT LOCATION BETWEEN THE STEEL DUCT AND THE GYPSUM BOARD.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE SEALANT OR CP606
   C. STEEL RETAINING ANGLES — MIN NO. 16 GAUGE GALV STEEL ANGLES SIZED TO LAP STEEL DUCT A MIN OF 2 IN. (51 MM) AND TO LAP WALL SURFACES A MIN OF 1 IN. (25 MM). WHEN MAX DUCT DIMENSION DOES NOT EXCEED 48 IN. (122 CM) AND DUCT AREA DOES NOT EXCEED 1300 IN2 (8387 CM2), ANGLES MAY BE MIN NO. 18 GAUGE GALV STEEL. ANGLES ATTACHED TO STEEL DUCT ON BOTH SIDES OF WALL WITH MIN NO. 10 BY 1/2 IN. (13 MM) LONG STEEL SHEET METAL SCREWS LOCATED A MAX OF 1 IN. (25 MM) FROM EACH END OF STEEL DUCT AND SPACED A MAX OF 6 IN. (152 MM) OC. STEEL ANGLES ARE OPTIONAL FOR THOSE SIDES OF DUCT THAT DO NOT EXCEED THE DIMENSION SPECIFIED IN TABLE BELOW, DEPENDENT ON PACKING MATERIAL AND ANNULAR SPACE AS SPECIFIED.

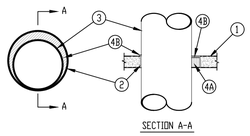
*BEARING THE UL CLASSIFICATION MARK

1 SHEET METAL DUCT THROUGH GYPSUM WALL (5.5.8)

MAX. OPENING 104x102

System No. C-AJ-1155

F Rating - 3 Hr
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - 4 CFM/sq ft



1. FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 26 IN. SEE CONCRETE BLOCKS (CAZT) CATEGORY IN FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. METALLIC SLEEVE (OPTIONAL) - NOM 24 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL ASSEMBLY.

3. THROUGH PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE MIN 0 IN.(POINT CONTACT) TO MAX 2-1/4 IN. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
   A. STEEL PIPE - NOM 20 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE - NOM 20 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. CONDUIT - NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOM 6 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT.
   D. COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   E. COPPER PIPE - NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE

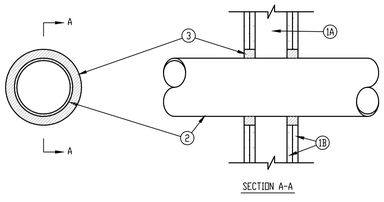
4. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. PACKING MATERIAL - MIN 4 IN. THICKNESS OF MIN 4.0 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP END OF SLEEVE FOR FLOORS OR FROM BOTH ENDS OF SLEEVE FOR WALLS AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH THE TOP END OF THE SLEEVE FOR FLOORS, OR WITH BOTH ENDS OF THE SLEEVE FOR WALLS. MIN 1/2 IN. THICK BEAD OF ALL MATERIAL TO BE INSTALLED AROUND PIPE AT INTERFACE OF SLEEVE FOR POINT CONTACT INSTALLATIONS.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC - FS-ONE SEALANT

*BEARING THE UL CLASSIFICATION MARKING

4 METAL PIPE THROUGH CONCRETE FLOOR OR WALL (5.5.1)

System No. W-L-1054

F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft



1. WALL ASSEMBLY -- THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

   A. STUDS -- WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. O.C. WHEN STEEL STUDS ARE USED AND THE DIA. OF OPENING EXCEEDS THE WIDTH OF STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD INSTALLED BETWEEN THE VERTICAL STUDS AND SCREW-ATTACHED TO THE STEEL STUDS AT EACH END. THE FRAMED OPENING IN THE WALL SHALL BE 4 TO 6 IN. WIDER AND 4 TO 6 IN. HIGHER THAN THE DIA. OF THE PENETRATING ITEM SUCH THAT, WHEN THE PENETRATING ITEM IS INSTALLED IN THE OPENING, A 2 TO 3 IN. CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING ON ALL FOUR SIDES.
   B. GYPSUM BOARD* -- 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIA. OF OPENING IS 32-1/4 IN. FOR STEEL STUD WALLS. MAX DIA. OF OPENING IS 14-1/2 IN. FOR WOOD STUD WALLS. THE F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE FIRE RATING OF THE WALL ASSEMBLY.

2. THROUGH-PENETRANTS -- ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 2-1/4 IN. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE, CONDUIT OR TUBING MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGREES FROM PERPENDICULAR. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
   A. STEEL PIPE -- NOM 30 IN DIA. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE -- NOM 30 IN. DIA. (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. CONDUIT -- NOM 4 IN DIA. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR 6 IN. DIA. STEEL CONDUIT.
   D. COPPER TUBING -- NOM 6 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   E. COPPER PIPE -- NOM 6 IN. DIA. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. FILL, VOID OR CAVITY MATERIAL* -- SEALANT -- MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND WALL, A MIN 1/2 IN. DIA. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE WALL INTERFACE ON BOTH SURFACES OF WALL.

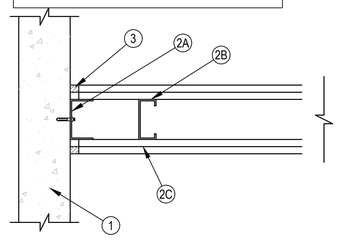
HILTI CONSTRUCTION CHEMICALS, DIV OF
HILTI INC -- FS-ONE SEALANT

*BEARING THE UL CLASSIFICATION MARK

3 METAL PIPE THROUGH GYPSUM BOARD WALL (5.5.2)

System No. WW-D-0040

Assembly Rating — 1 and 2 Hr (See Item 1)
Nominal Joint Width — 3/4 in.
Class II Movement Capabilities — 17 Percent Compression or Extension

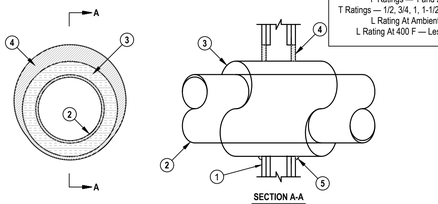


1. CONCRETE WALL ASSEMBLY — MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) STRUCTURAL CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*.
   SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. GYPSUM WALL ASSEMBLY — THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STEEL STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STEEL RUNNERS — RUNNERS OF WALL ASSEMBLY SHALL CONSIST OF MIN NO. 25 GAUGE GALV STEEL CHANNELS SIZED TO ACCOMMODATE STEEL STUDS (ITEM 2B). RUNNER TO BE PROVIDED WITH 1-1/4 IN. FLANGES. RUNNER SECURED TO CONCRETE WALL ASSEMBLY WITH STEEL CONCRETE FASTENERS SPACED 12 IN. OC.
   B. STUDS — STEEL STUDS TO BE MIN 3-1/2 IN. WIDE. STUDS CUT 1/2 TO 3/4 IN. LESS IN LENGTH THAN ASSEMBLY HEIGHT WITH BOTTOM NESTING IN AND RESTING ON FLOOR RUNNER AND WITH TOP NESTING IN CEILING RUNNER WITHOUT ATTACHMENT. FIRST STUD ADJACENT TO CONCRETE WALL ASSEMBLY LOCATED MAX 4 IN. FROM WALL FACE. STUD SPACING NOT TO EXCEED 24 IN. OC.
   C. GYPSUM BOARD* — FOR 1 HR ASSEMBLY, ONE LAYER OF 5/8 IN. THICK GYPSUM BOARD IS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. FOR 2 HR ASSEMBLY, TWO LAYERS OF 5/8 IN. THICK GYPSUM BOARD ARE REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. WALL TO BE CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY, EXCEPT THAT A MAX 3/4 IN. GAP SHALL BE MAINTAINED BETWEEN THE SIDE OF GYPSUM BOARD AND FACE OF CONCRETE WALL ASSEMBLY. THE SCREWS ATTACHING THE GYPSUM BOARD TO THE FIRST STUD SHALL BE LOCATED 4 IN. FROM FACE OF CONCRETE WALL ASSEMBLY. GYPSUM BOARD NOT ATTACHED TO SIDE RUNNER. THE HOURLY FIRE RATING OF THE JOINT SYSTEM IS EQUAL TO THE HOURLY RATING OF THE GYPSUM WALL ASSEMBLY.
3. FILL, VOID OR CAVITY MATERIAL* SEALANT — MAX SEPARATION BETWEEN SIDE OF GYPSUM BOARD AND FACE OF CONCRETE WALL ASSEMBLY IS ¾ IN. THE JOINT SYSTEM IS DESIGNED TO ACCOMMODATE A MAX 17 PERCENT COMPRESSION OR EXTENSION FROM ITS INSTALLED WIDTH. MIN 5/8 IN. THICKNESS OF FILL MATERIAL INSTALLED ON EACH SIDE OF THE WALL BETWEEN THE SIDE OF THE GYPSUM BOARD AND THE FACE OF THE CONCRETE WALL ASSEMBLY, FLUSH WITH EACH SURFACE OF THE GYPSUM WALL.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC — CP601S ELASTOMERIC FIRESTOP SEALANT OR CP606 FLEXIBLE FIRESTOP SEALANT
*BEARING THE UL CLASSIFICATION MARK

5 WALL TO WALL CONNECTION (5.6.7)

System No. W-L-5029

F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1/2, 3/4, 1, 1-1/2 and 1-3/4 Hr (See Item 3)
L Rating At Ambient — 4 CFM/Sq Ft
L Rating At 400 F — Less Than 1 CFM/Sq Ft



Wall Assembly Rating Hr	Through Penetrant Type *	Through Penetrant Max Diam In.	Pipe Covering Thkns In.	Annular Space Min In.	Annular Space Max In.	T Rating Hr
1	A	4	1	0	1-1/2	1/2
1	B or C	2	1 or 1-1/2	0	1-1/2	1/2
1	A	4	1-1/2	0	1-1/2	1
1	A	12	2	0	1-7/8	3/4
1	B or C	6	2	0	1-7/8	1
2	A	4	1	0	1-1/2	1
2	B or C	4	1 or 1-1/2	0	1-1/2	1
2	B or C	6	2	0	1-7/8	1
2	A	4	1-1/2	0	1-1/2	1-3/4
2	A	12	2	0	1-7/8	1-1/2
2	B or C	6	2	0	1-7/8	1

1. WALL ASSEMBLY — THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. OC.
   B. GYPSUM BOARD* — 5/8 IN. THICK, 4 FT WIDE, WITH SQUARE OR TAPERED EDGES, THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 18-5/8 IN.
   THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. THROUGH PENETRANTS — ONE METALLIC PIPE OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
   A. STEEL PIPE — NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE — NOM 12 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. COPPER TUBING — NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   D. COPPER PIPE — NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
3. PIPE COVERING* — NOM 1, 1-1/2 OR 2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT.
   SEE PIPE AND EQUIPMENT COVERING — MATERIALS (BRGU) CATEGORY IN THE BUILDING MATERIAL DIRECTORY FOR THE NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.
   THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT ON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, THE SIZE AND TYPE OF THROUGH PENETRANT AND THE PIPE COVERING THICKNESS, AS SHOWN IN THE TABLE BELOW:
   +INDICATES PENETRANT TYPE AS ITEMIZED IN ITEM 2.
3A. PIPE COVERING* — (NOT SHOWN) — AS AN ALTERNATE TO ITEM 3, MAX 2 IN. THICK CYLINDRICAL CALCIUM SILICATE (MIN 14 PCF) UNITS SIZED TO THE OUTSIDE DIAM OF THE PIPE OR TUBE MAY BE USED. PIPE INSULATION SECURED WITH STAINLESS STEEL BANDS OR MIN 8 AWG STAINLESS STEEL WIRE SPACED MAX 12 IN. OC. WHEN THE ALTERNATE PIPE COVERING IS USED, THE T RATING SHALL BE DETERMINED FROM THE TABLE ABOVE.
   SEE PIPE AND EQUIPMENT COVERING — MATERIALS (BRGU) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.
4. FILL, VOID OR CAVITY MATERIAL* — SEALANT — MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL , AT THE POINT CONTACT LOCATION BETWEEN PIPE COVERING AND GYPSUM BOARD, A MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE COVERING/GYPSUM BOARD INTERFACE ON BOTH SURFACES OF WALL.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE SEALANT

*BEARING THE UL CLASSIFICATION MARK

4 INSULATED METAL PIPE THROUGH GYPSUM BOARD WALL (5.5.6)

BASIS OF DESIGN

THE FIRE SAFING SEALANTS SHOWN IN DETAILS ARE BASED UPON HILTI CORPORATION PRODUCTS, AND ARE ACCEPTABLE TO FM GLOBAL. PRODUCTS OF OTHER MANUFACTURERS CONFORMING TO THE CRITERIA OF NOTED UL SYSTEMS SHOWN MUST MEET FM GLOBAL STANDARDS. DESIGN MUST MEET ASTM E814 REQUIREMENTS AND FM GLOBAL 4990 APPROVAL STANDARD FOR FIRESTOPPING.

COORDINATE WALL TYPES WITH DRAWING A6.07

drawing title
FIRESTOP DETAILS

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION
	5/23/18	DOCUMENTS
	7/25/18	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

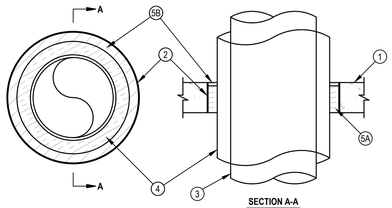
CAD no.

project no.
BI-RD-299

date 07/25/18
scale AS NOTED
drawn by SP/CA
approved by AL
drawing no. **A9.01**

System No. C-AJ-5091

F Rating — 2 Hr
T Ratings — 0 and 1 Hr (See Items 2 and 4)
L Rating At Ambient — 4 CFM/Sq Ft
L Rating At 400 F — Less Than 1 CFM/Sq Ft



SECTION A-A

1. FLOOR OR WALL ASSEMBLY — MIN 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 19-1/2 IN. (495 MM). SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. METALLIC SLEEVE — (OPTIONAL) — NOM 20 IN. (508 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES OR EXTENDING A MAX OF 3 IN. (76 MM) ABOVE FLOOR OR BEYOND BOTH SURFACES OF WALL. IF THE STEEL SLEEVE EXTENDS BEYOND THE TOP SURFACE OF THE FLOOR OR BOTH SURFACES OF THE WALL, THE T RATING OF THE FIRESTOP SYSTEM IS 0 HR.
2A. SHEET METAL SLEEVE — (OPTIONAL) - MAX 6 IN. (152 MM) DIAM, MIN 26 GA GALV STEEL PROVIDED WITH A 26 GA GALV STEEL SQUARE FLANGE SPOT WELDED TO THE SLEEVE AT APPROXIMATELY MID- HEIGHT, OR FLUSH WITH BOTTOM OF SLEEVE IN FLOORS, AND SIZED TO BE A MIN OF 2 IN. (51 MM) LARGER THAN THE SLEEVE DIAM. THE SLEEVE IS TO BE CAST IN PLACE FLUSH WITH BOTTOM SURFACE OF FLOOR AND MAY EXTEND A MAX OF 1 IN. (25 MM) ABOVE THE TOP SURFACE OF THE FLOOR.
2B. SHEET METAL SLEEVE — (OPTIONAL) - MAX 12 IN. (305 MM) DIAM, MIN 24 GA GALV STEEL PROVIDED WITH A 24 GA GALV STEEL SQUARE FLANGE SPOT WELDED TO THE SLEEVE AT APPROXIMATELY MID- HEIGHT, OR FLUSH WITH BOTTOM OF SLEEVE IN FLOORS, AND SIZED TO BE A MIN OF 2 IN. (51 MM) LARGER THAN THE SLEEVE DIAM. THE SLEEVE IS TO BE CAST IN PLACE FLUSH WITH BOTTOM SURFACE OF FLOOR AND MAY EXTEND A MAX OF 1 IN. (25 MM) ABOVE THE TOP SURFACE OF THE FLOOR.

3. THROUGH PENETRANTS — ONE METALLIC PIPE OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
   A. STEEL PIPE — NOM 12 IN. (305 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE — NOM 12 IN. (305 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. COPPER PIPE — NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   D. COPPER TUBING — NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
4. PIPE COVERING — MIN 1/2 IN. (13 MM) TO MAX 2 IN. (51 MM) THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF OR 56 KG/M3) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL-SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED, SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. THE ANNULAR SPACE BETWEEN THE INSULATED PIPE AND THE EDGE OF THE PERIPHERY OF THE OPENING SHALL BE MIN 1/2 IN. (13 MM) TO A MAX 2-1/4 IN. (57 MM). WHEN THICKNESS OF PIPE COVERING IS LESS THAN 2 IN. (51 MM), THE T RATING FOR THE FIRESTOP SYSTEM IS 0 HR.
   SEE PIPE EQUIPMENT COVERING — MATERIALS — (BRGU) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.
4A. PIPE COVERING — (NOT SHOWN) — AS AN ALTERNATE TO ITEM 4, MAX 2 IN. (51 MM) THICK CYLINDRICAL CALCIUM SILICATE (MIN 14 PCF) UNITS SIZED TO THE OUTSIDE DIAM OF THE PIPE OR TUBE MAY BE USED. PIPE INSULATION SECURED WITH STAINLESS STEEL BANDS OR MIN 8 AWG STAINLESS STEEL WIRE SPACED MAX 12 IN. (305 MM) OC. THE ANNULAR SPACE SHALL BE MIN 1/2 IN. (13 MM) TO MAX 2-1/4 IN. (57 MM).

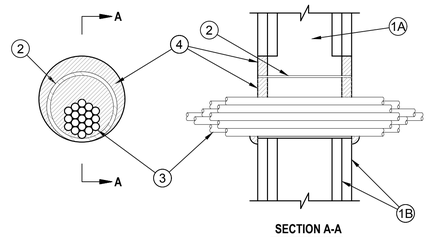
5. FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. PACKING MATERIAL — MIN 4 IN. (102 MM) THICKNESS OF MIN 4 PCF (64 KG/M3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B. FILL, VOID OR CAVITY MATERIAL* — SEALANT — MIN 1/2 IN. (13 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE SEALANT

*BEARING THE UL CLASSIFICATION MARK

1 INSULATED METALLIC PIPE THROUGH CONCRETE FLOOR OR WALL (5.5.5)

System No. W-L-3065

F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr



SECTION A-A

1. WALL ASSEMBLY — THE 1 OR 2 FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 2-1/2 IN. (64 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* — NOM 5/8 IN. (16 MM) THICK GYPSUM BOARD, WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 5-1/2 IN. (138 MM) WHEN SLEEVE (ITEM 2) IS EMPLOYED. MAX DIAM OF OPENING IS 4 IN. (102 MM) WHEN SLEEVE (ITEM 2) IS NOT EMPLOYED.
   THE F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE FIRE RATING OF THE WALL ASSEMBLY.
2. METALLIC SLEEVE — (OPTIONAL) - NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR SCHEDULE 5 (OR HEAVIER) STEEL PIPE OR MIN 0.016 IN. THICK (0.41 MM, NO. 28 GA) GALV STEEL SLEEVE INSTALLED FLUSH WITH WALL SURFACES. THE ANNULAR SPACE BETWEEN STEEL SLEEVE AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (0 MM, POINT CONTACT) TO MAX 1 IN. (25MM). WHEN SCHEDULE 5 STEEL PIPE OR EMT IS USED, SLEEVE MAY EXTEND UP TO 18 IN. (457 MM) BEYOND THE WALL SURFACES.
3. CABLES — AGGREGATE CROSS-SECTIONAL AREA OF CABLE IN OPENING TO BE MAX 45 PERCENT OF THE CROSS-SECTIONAL AREA OF THE OPENING. THE ANNULAR SPACE BETWEEN THE CABLE BUNDLE AND THE PERIPHERY OF THE OPENING TO BE MIN 0 IN. (0 MM, POINT CONTACT) TO MAX 1 IN. (25 MM) CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF COPPER CONDUCTOR CABLES MAY BE USED:
   A. MAX 7/C NO. 12 AWG WITH POLYVINYL CHLORIDE (PVC) INSULATION AND JACKET.
   B. MAX 25 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC INSULATION AND JACKET.
   C. TYPE RG/U COAXIAL CABLE WITH POLYETHYLENE (PE) INSULATION AND PVC JACKET HAVING A MAX OUTSIDE DIAMETER OF ½ IN. (13 MM).
   D. MULTIPLE FIBER OPTICAL COMMUNICATION CABLE JACKETED WITH PVC AND HAVING A MAX OD OF 5/8 IN. (16 MM).
   E. THROUGH PENETRATING PRODUCTS*— MAX THREE COPPER CONDUCTOR NO. 8 AWG . METAL-CLAD CABLE+. AFC CABLE SYSTEMS INC
   F. MAX 3/C (WITH GROUND)OR SMALLER) NO. 8 AWG COPPER CONDUCTOR CABLE WITH PVC INSULATION AND JACKETING.
   G. MAX 3/4 IN. (19 MM) DIAM COPPER GROUND CABLE WITH OR WITHOUT A PVC JACKET.
   H. FIRE RESISTIVE CABLES* - MAX 1-1/4 IN. (32 MM) DIAM SINGLE CONDUCTOR OR MULTI CONDUCTOR TYPE MI CABLE. A MIN 1/8 IN. (3 MM) SEPARATION SHALL BE MAINTAINED BETWEEN MI CABLES AND ANY OTHER TYPES OF CABLE.
   I. MAX 4/C WITH GROUND 300 KCMIL (OR SMALLER) ALUMINUM SER CABLE WITH PVC INSULATION AND JACKET.
   J. THROUGH PENETRATING PRODUCT* - ANY CABLES, METAL-CLAD CABLE+ OR ARMORED CABLE+ CURRENTLY CLASSIFIED UNDER THE THROUGH PENETRATING PRODUCTS CATEGORY.
      SEE THROUGH PENETRATING PRODUCT (XHLY) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
4. FILL, VOID OR CAVITY MATERIAL*— SEALANT OR PUTTY — FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH EACH END OF THE STEEL SLEEVE OR WALL SURFACE. FILL MATERIAL INSTALLED SYMMETRICALLY ON BOTH SIDES OF THE WALL. A MIN 5/8 IN. (16 MM) THICKNESS OF SEALANT IS REQUIRED FOR THE 1 OR 2 HR F RATING . AN ADDITIONAL 1/2 IN. (13 MM) DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AROUND THE PERIMETER OF SLEEVE ON BOTH SIDES OF THE WALL WHEN SLEEVE EXTENDS BEYOND SURFACE OF WALL.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S, CP606, FS-ONE SEALANTS OR CP618 PUTTY
*BEARING THE UL CLASSIFICATION MARK
+BEARING THE UL LISTING MARK

2 CABLE THROUGH GYPSUM WALL

BASIS OF DESIGN

THE FIRE SAFING SEALANTS SHOWN IN DETAILS ARE BASED UPON HILTI CORPORATION PRODUCTS, AND ARE ACCEPTABLE TO FM GLOBAL. PRODUCTS OF OTHER MANUFACTURERS CONFORMING TO THE CRITERIA OF NOTED UL SYSTEMS SHOWN MUST MEET FM GLOBAL STANDARDS. DESIGN MUST MEET ASTM E814 REQUIREMENTS AND FM GLOBAL 4990 APPROVAL STANDARD FOR FIRESTOPPING.

COORDINATE WALL TYPES WITH DRAWING A6.07

drawing title
FIRESTOP DETAILS

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18 5/23/18 7/25/18	CONSTRUCTION DOCUMENTS

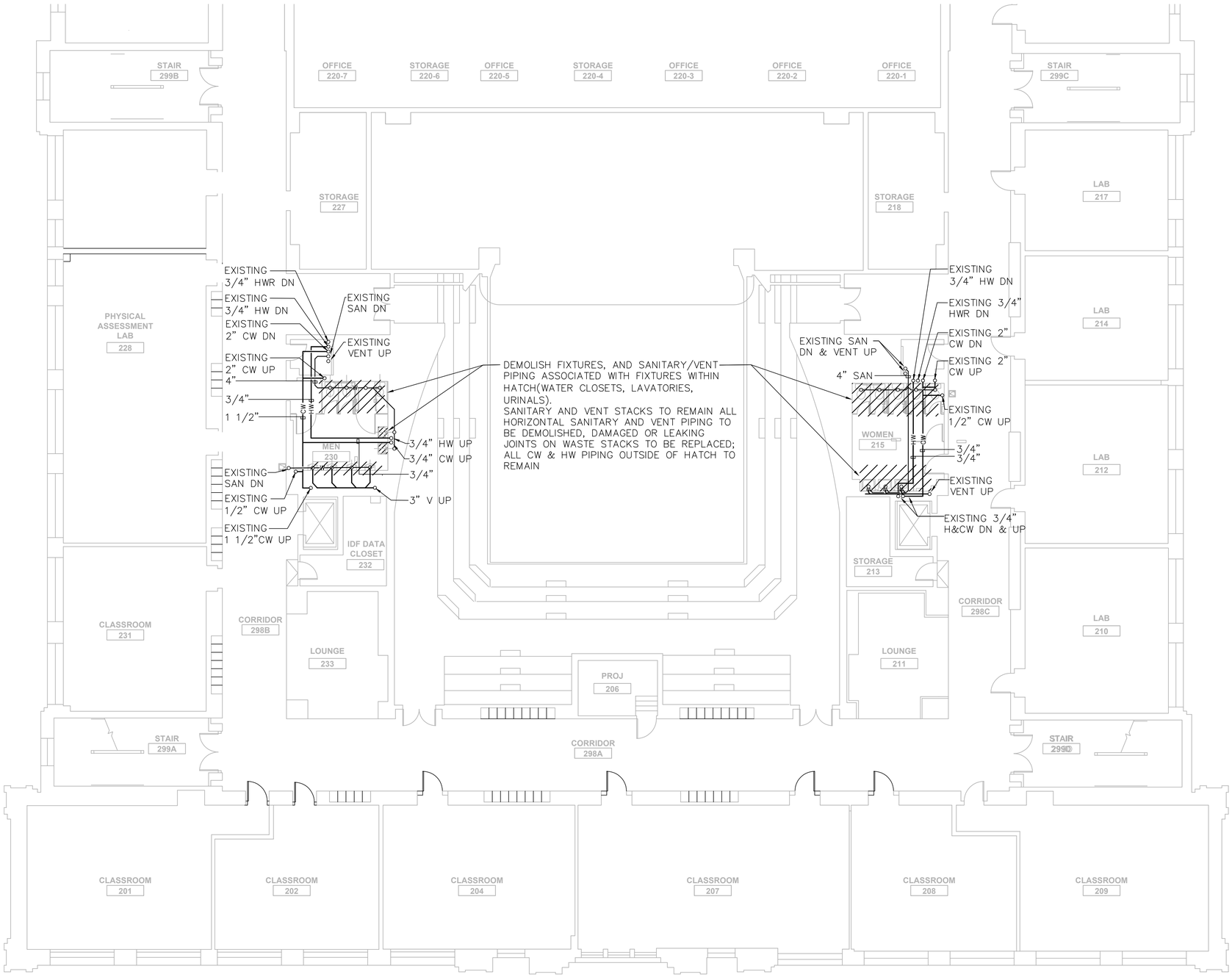
STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
AMES & WHITAKER ARCHITECTS
31 LIBERTY STREET
SOUTHINGTON, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no. BI-RD-299

date 07/25/18
scale AS NOTED
drawn by SP/CA
approved by AL
drawing no. **A9.02**



1 SECOND FLOOR PLUMBING DEMOLITION SOUTH

1/8" = 1' 0"

drawing title
PLUMBING SECOND FLOOR - SOUTH DEMO PARTIAL PLAN

REVISIONS

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	1/15/18	DESIGN DEVELOPMENT SUBMISSION
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	1/21/19	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

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811 MIDDLE STREET
MIDDLETOWN, CT

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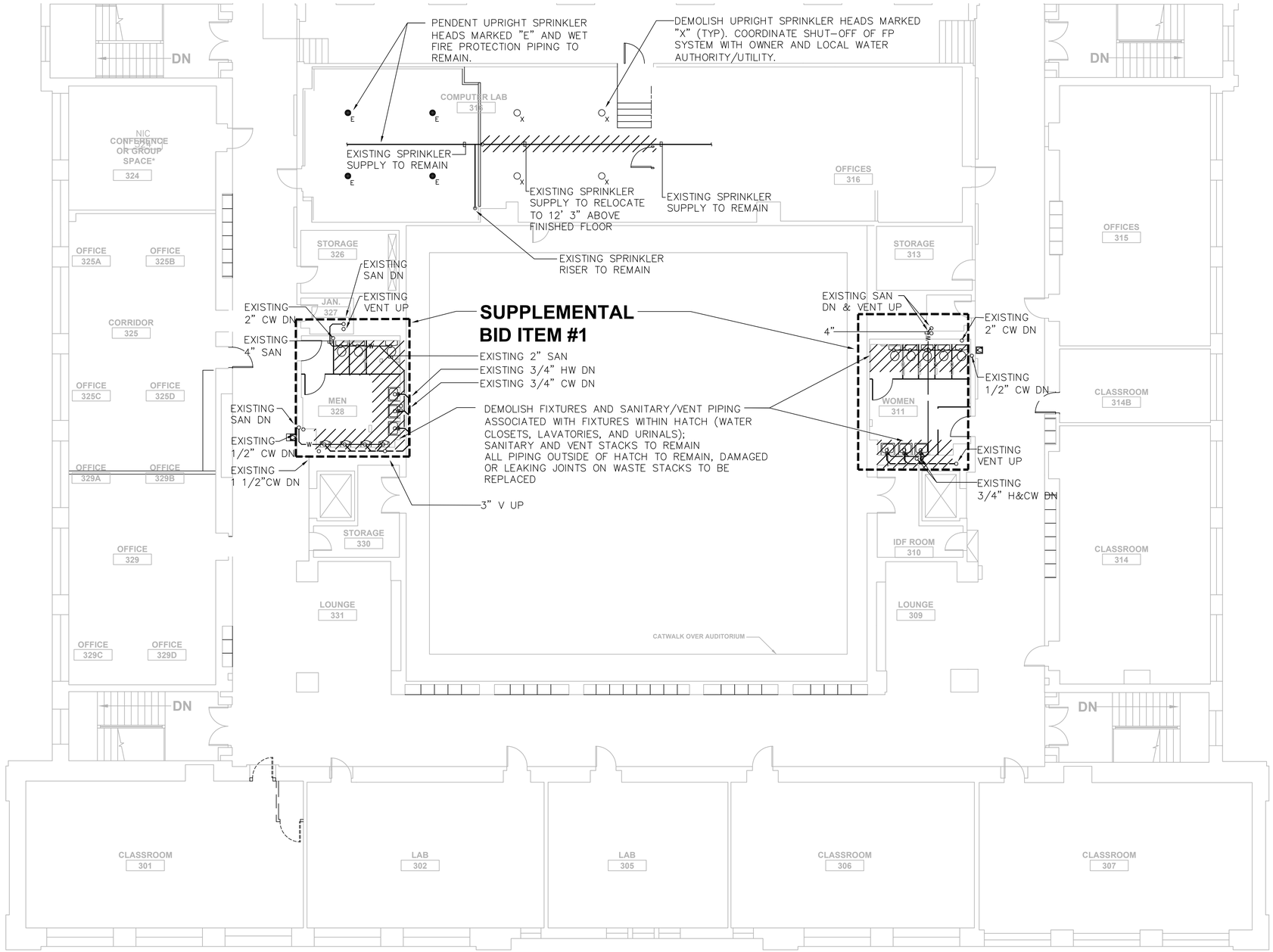

1 THIRD FLOOR FIRE PROTECTION & PLUMBING DEMOLITION SOUTH

1/8" = 1' 0"

drawing title
PLUMBING THIRD FLOOR - SOUTH DEMO PARTIAL PLAN

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PMA

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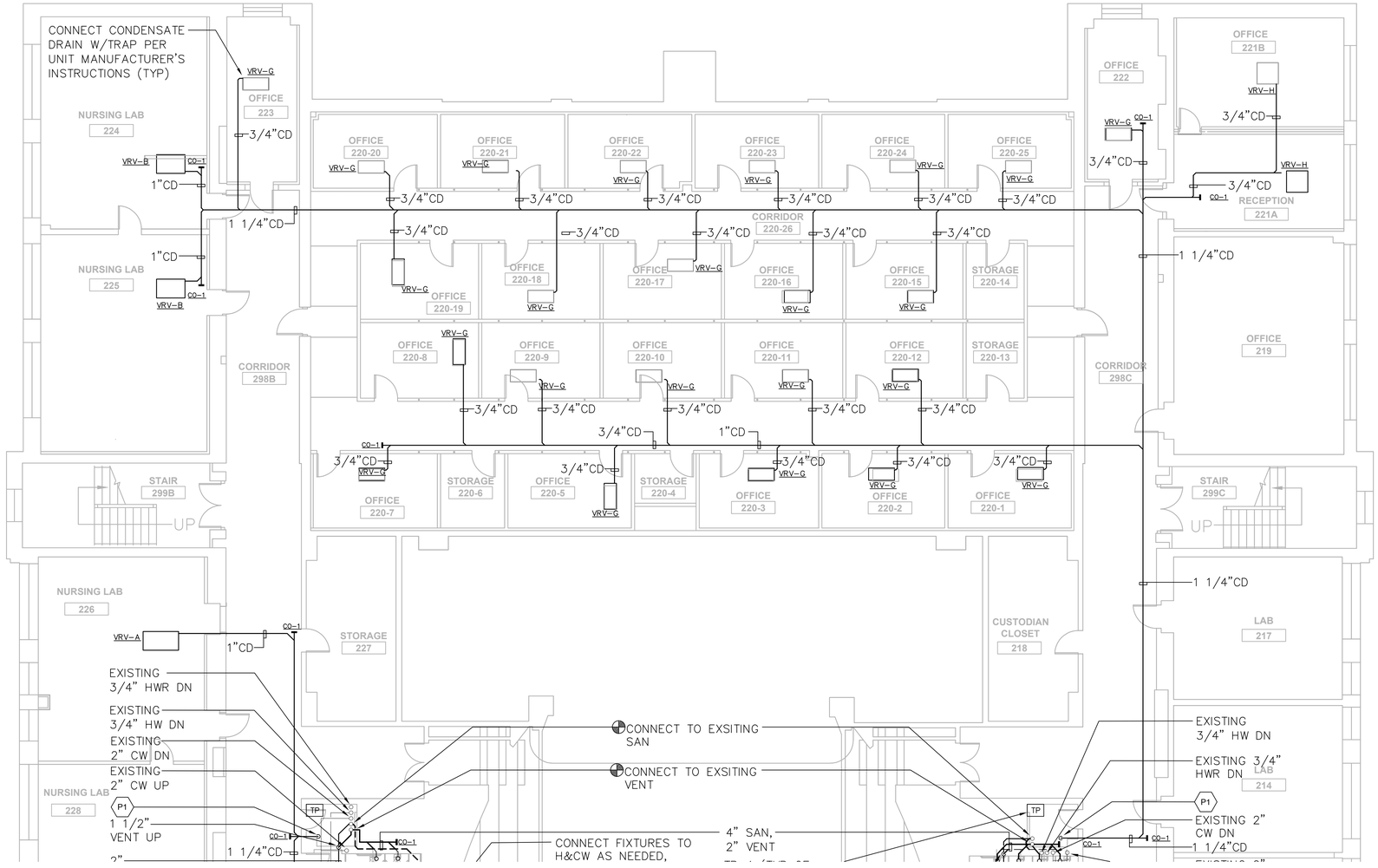

1 SECOND FLOOR PARTIAL PLUMBING NORTH

1/8" = 1' 0"

PLUMBING KEY NOTES

P1 CONDENSATE DRAIN (CD) DOWN TO INDIRECT DRAIN INTO EXISTING JANITOR'S SINK

drawing title
PLUMBING SECOND FLOOR - NORTH PARTIAL PLAN

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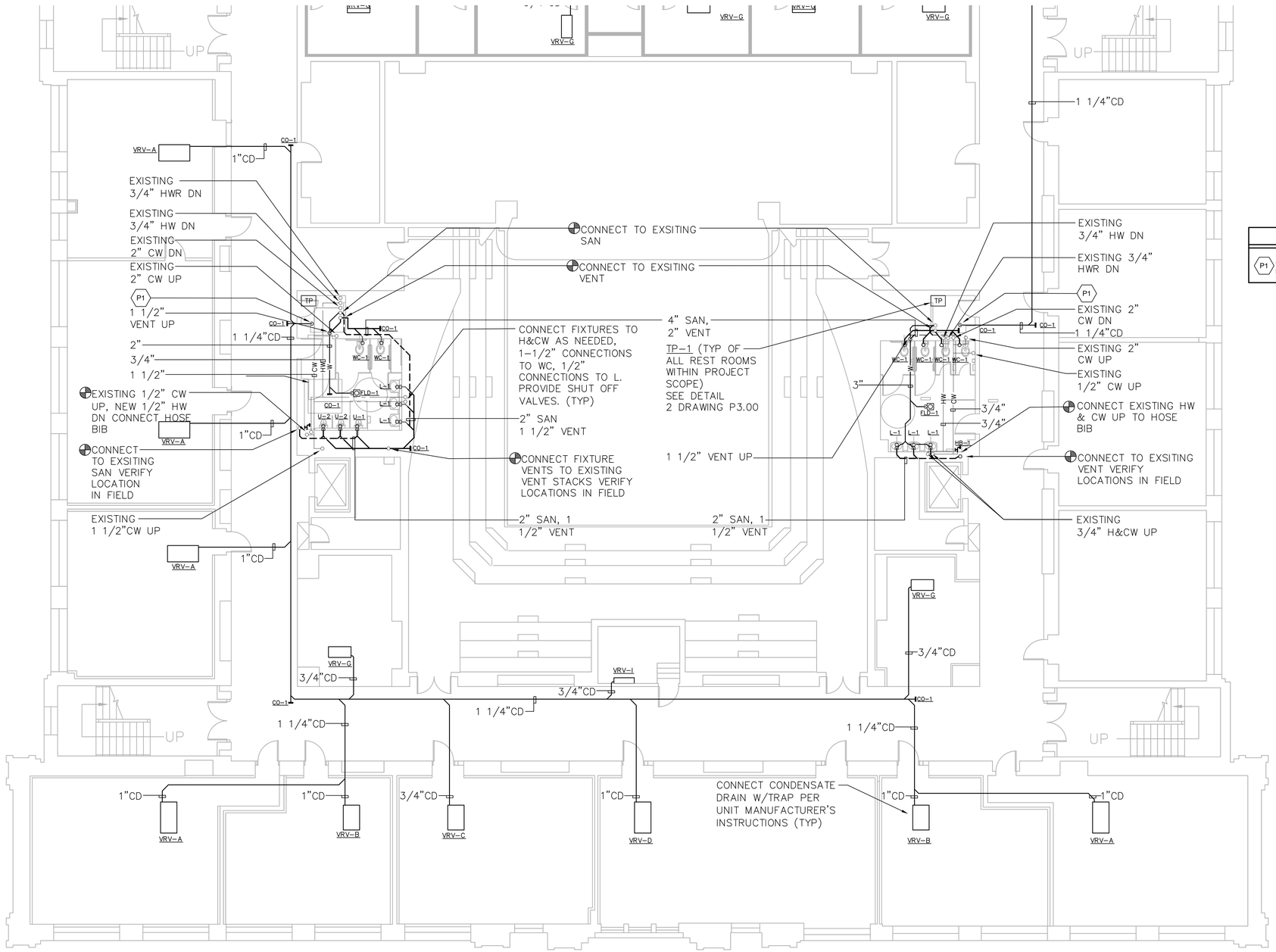

1 SECOND FLOOR PARTIAL PLUMBING SOUTH

1/8" = 1' 0"

PLUMBING KEY NOTES

P1 CONDENSATE DRAIN (CD) DOWN TO INDIRECT DRAIN INTO EXISTING JANITOR'S SINK

drawing title
PLUMBING SECOND FLOOR - SOUTH PARTIAL PLAN

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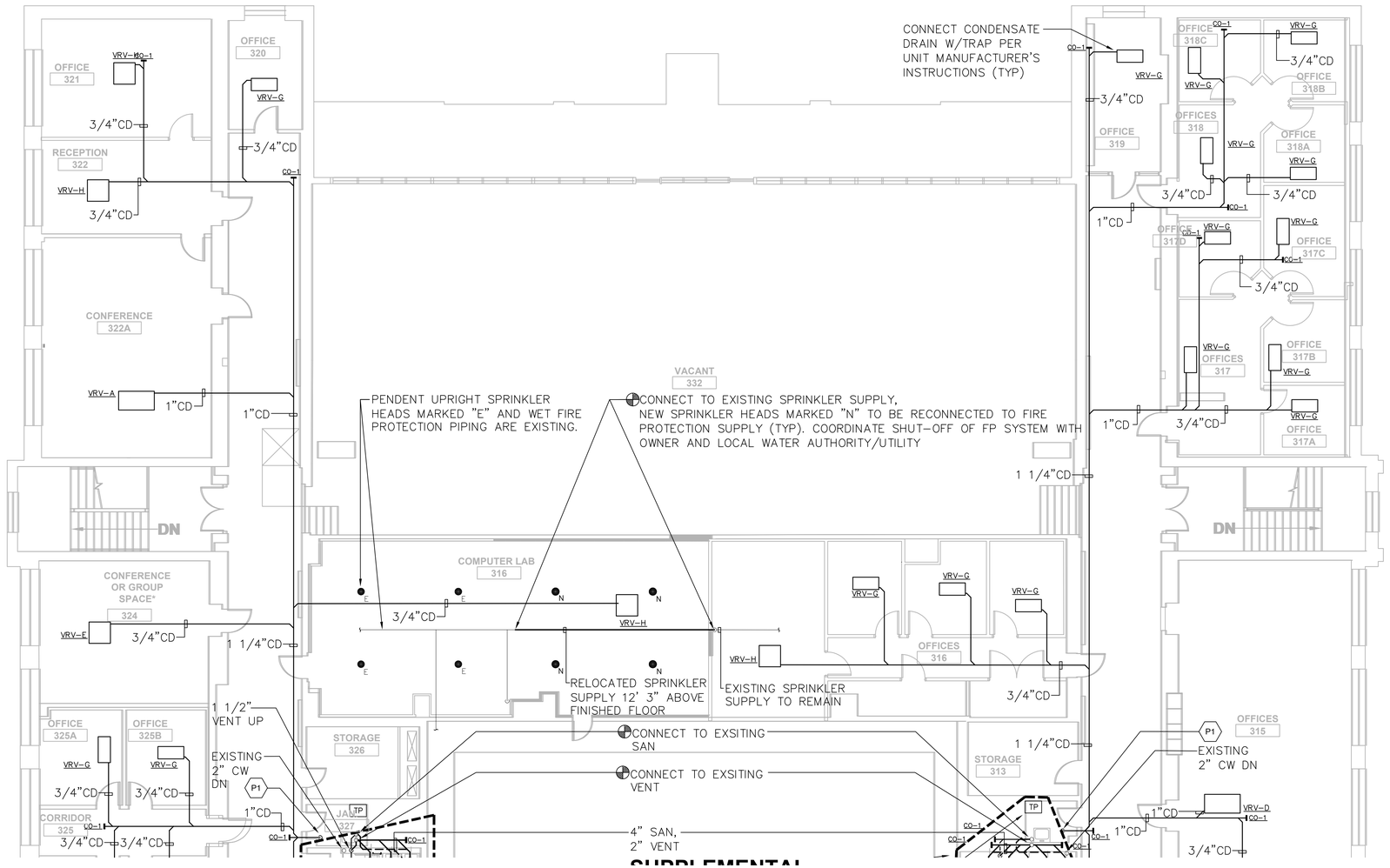

1 THIRD FLOOR PARTIAL FIRE PROTECTION & PLUMBING NORTH

1/8" = 1' 0"

PLUMBING KEY NOTES

P1 CONDENSATE DRAIN (CD) DOWN TO INDIRECT DRAIN INTO EXISTING JANITOR'S SINK

drawing title
FIRE PROTECTION & PLUMBING PARTIAL THIRD FLOOR - NORTH PARTIAL PLAN

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DEPARTMENT OF ADMINISTRATIVE SERVICES

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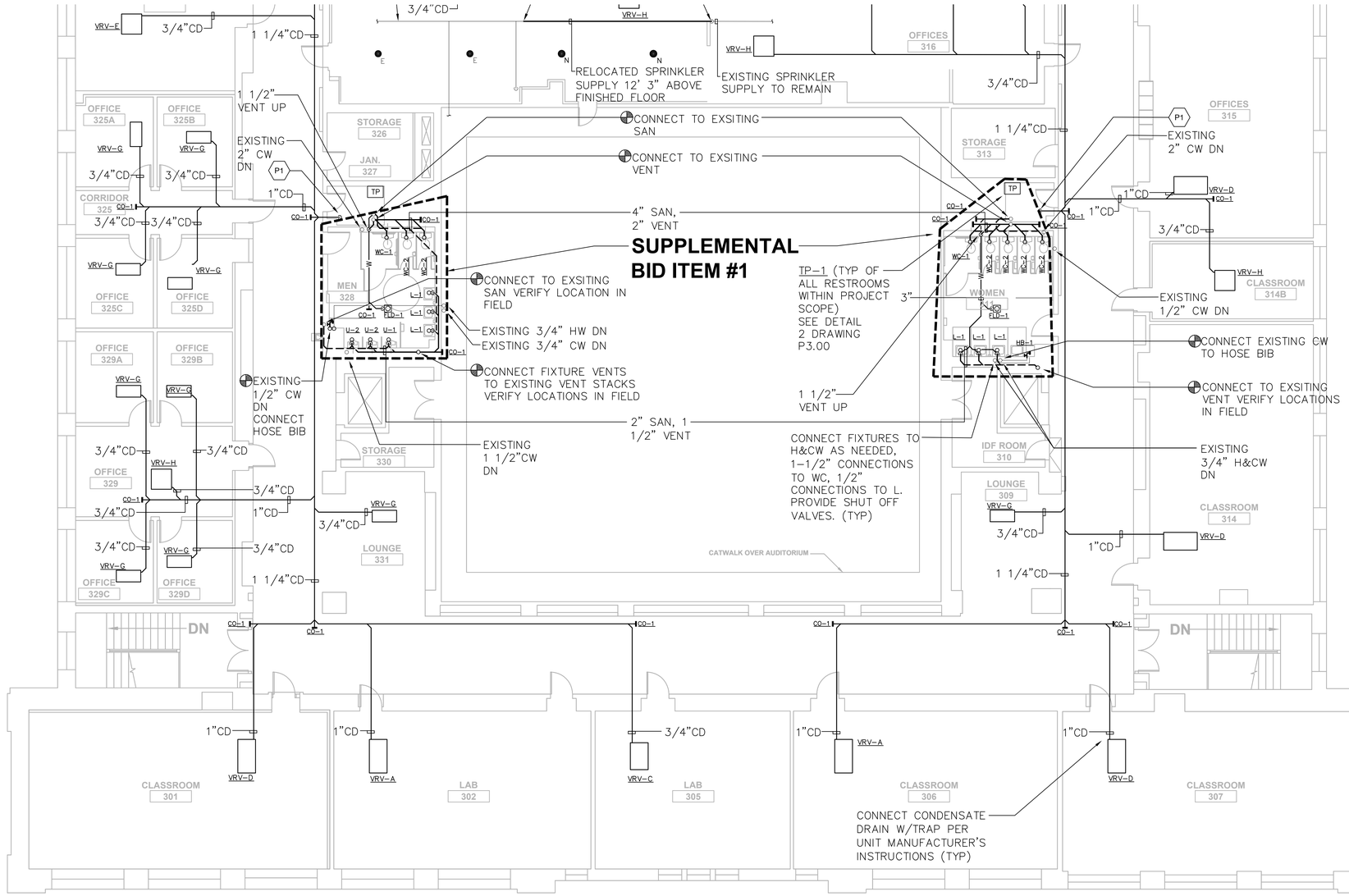

PLUMBING KEY NOTES

P1 CONDENSATE DRAIN (CD) DOWN TO INDIRECT DRAIN INTO EXISTING JANITOR'S SINK

1 THIRD FLOOR PARTIAL PLUMBING SOUTH

1/8" = 1' 0"

drawing title
FIRE PROTECTION & PLUMBING PARTIAL THIRD FLOOR - NORTH PARTIAL PLAN

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drawn by
MDP

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PMA

drawing no.
P1.04

FIRE PROTECTION GENERAL NOTES

1. THESE GENERAL NOTES ARE APPLICABLE TO ALL FIRE PROTECTION DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL INTENT OF WORK, SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. FIRE PROTECTION CONTRACTOR MUST REVIEW DRAWINGS OF THE OTHER TRADES AS PART OF THIS CONTRACT FOR ADDITIONAL WORK REQUIRED AND OR COORDINATION OF HIS WORK FOR OPERATIONS OR CONNECTIONS TO OTHER SYSTEMS.
4. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR COORDINATING SHUTOFF OF SYSTEM WITH BUILDING OWNER AND LOCAL AUTHORITY HAVING JURISDICTION.
5. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH STRUCTURAL MEMBERS. NEW PIPING SHALL NOT BE INSTALLED WHERE IT WILL REQUIRE MODIFICATION OF STRUCTURE. NEW PIPING SHALL BE OFF-SET OR ROUTED AROUND STRUCTURE.

PLUMBING GENERAL NOTES

1. THESE GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL INTENT OF WORK, SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. PLUMBING CONTRACTOR MUST REVIEW DRAWINGS OF THE OTHER TRADES AS PART OF THIS CONTRACT FOR ADDITIONAL WORK REQUIRED AND OR COORDINATION OF HIS WORK FOR OPERATIONS OR CONNECTIONS TO OTHER SYSTEMS.
4. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING & INSTALLING ALL SERVICES TO HVAC EQUIPMENT INCLUDING BUT NOT LIMITED TO: GAS SUPPLY PIPING CONDENSATE PIPING, COLD WATER MAKE-UP PIPING DRAINS, & CONNECTIONS TO AIR HANDLING UNITS, FAN COIL UNITS, UNIT HEATERS, BOILERS, CHILLERS, ETC. ALSO, DEVICES REQUIRED INCLUDE BACKFLOW PREVENTERS, REGULATORS, UNIONS, TRAPS, & SHUT-OFF VALVES REQUIRED FOR THIS EQUIPMENT. REFER TO HVAC DWGS. FOR ADDITIONAL INFORMATION AND COORDINATION.
5. THE PLUMBING CONTRACTOR SHALL PROVIDE PIPE EXPANSION JOINTS ON PIPING PASSING THRU ALL BUILDING EXPANSION JOINT LOCATIONS AS REQUIRED PER BUILDING CODES WHETHER OR NOT SHOWN ON DRAWINGS. REVIEW ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT BUILDING EXPANSION JOINT LOCATIONS AND EXPANSION DIMENSIONS.
6. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING NEW DOMESTIC WATER SUPPLY (HOT & COLD), WASTE, AND VENT PIPING TO ALL FIXTURES, THROUGHOUT THE PROJECT.
7. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH STRUCTURAL MEMBERS. NEW PIPING SHALL NOT BE INSTALLED WHERE IT WILL REQUIRE MODIFICATION OF STRUCTURE. NEW PIPING SHALL BE OFF-SET OR ROUTED AROUND STRUCTURE.

PLUMBING PIPING LEGEND

SYMBOL	DESCRIPTION
	COLD WATER
	HOT WATER (110°F)
	HOT WATER RECIRCULATION (110°F)
	VENT
1 W	SANITARY WASTE ABOVE FLOOR
1 W	SANITARY WASTE BURIED
ST	STORM ABOVE FLOOR (PRIMARY)
CD	CONDENSATE DRAIN
	90° ELBOW DOWN
	90° ELBOW UP
	TEE UP
	TEE DOWN
	DROP AND RUN
	TEE OFF TOP OF PIPE
	TEE OFF BOTTOM OF PIPE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	UNION
	FLANGE
	END CAP
	CLEANOUT
	HOSE BIBB
	PIPE GUIDES
	PIPE ANCHORS

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	OS&Y GATE VALVE
	GATE VALVE
	CHECK VALVE
	BALL VALVE
	BALANCING VALVE
	THERMOSTATIC MIXING VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	FLOOR DRAIN/FLOOR SINK/AREA DRAIN WITH PIPE TRAP
TP	TRAP PRIMER
L-1	FIXTURE TYPE
	CONNECT NEW TO EXISTING
	GATE VALVE ON RISE
	PIPE TRAP
	ADA ACCESSIBLE FIXTURE

PLUMBING SPECIALTIES SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	COMPONENTS AND ACCESSORIES	MOUNTING HEIGHT	REMARKS
CO-1	JR. SMITH MODEL # 4532S-U	CLEANOUT: CAST IRON TEE WITH TAPER THREAD-BRONZE PLUG.	VANDAL PROOF SCREWS.	- -	# 3, 6
FLD-1	JR. SMITH MODEL # 2010C-U-P050	FLOOR DRAIN: CAST IRON BODY, ROUND ADJUSTABLE NICKEL BRONZE STRAINER, FLASHING COLLAR AND TRAP PRIMER CONNECTION AND SEDIMENT BUCKET	VANDAL PROOF GRATE	-	# 3, 5
HB-1	WOODFORD MODEL # B22	HOSE BIBB: BACKFLOW PROTECTED BRONZE BODY	3/4" THREADED HOSE CONNECTION	18" ABOVE FLOOR	-
TP-1	PRECISION PLUMBING "PRIME-RITE" MODEL # PR-500	TRAP PRIMER INTERNAL VACUUM BREAKER AND BACKFLOW PREVENTER UNIT. 1/2" INLET AND OUTLET	DISTRIBUTION UNITS MODEL #DU-U AS REQUIRED FOR THE NUMBER OF FLOOR DRAINS SHOWN ON THE DRAWINGS.		# 1, 2
WCO-1	JR. SMITH MODEL # 4402C-U	WALL CLEANOUT: DUCO CAST IRON, SPIGOT FERRULE CAST BRONZE THREAD PLUG, STAINLESS STEEL ROUND COVER AND SCREW.	VANDAL PROOF SCREWS.	-	# 3, 7
WHA-1	PRECISION PLUMBING MODEL # SC-500 THRU # SC-1500	WATER HAMMER ARRESTOR: BARREL FABRICATED OF TYPE "K" HARD DRAIN, COPPER. W/ "O" RING SEALS.	BRASS PISTON & THREADED ADAPTER	-	# 4

REMARKS:
1. THE TRAP PRIMER SHALL BE INSTALLED A MINIMUM OF 1 FOOT ABOVE FINISHED FLOOR FOR EVERY 20 FEET OF PRIMER LINE.
2. PROVIDE ISOLATION VALVES AT THE SUPPLY PIPE CONNECTIONS.
3. REFER TO FLOOR PLANS FOR SIZES.
4. INSTALL SIZED PER LOAD (WSFU) RECOMMENDED BY PDI & MANUFACTURER.
5. FURNISH WITH TRAP PRIMER CONNECTION AND TRAP PRIMER TP-1.
6. PROVIDE CLEAN OUT AT ALL HORIZONTAL TURNS GREATER THAN 45 DEGREES FOR ALL STORM & SANITRAY PIPING.
7. PROVIDE WCO AT BASE OF ALL SANITARY & STORM STACKS. FURNISH WITH ACCESS DOOR OR COVER.
8. MANUFACTURERS LISTED ARE THE BASIS OF DESIGN, SEE SPECIFICATIONS FOR OTHER ACCEPTABLE MANUFACTURERS.

PLUMBING FIXTURE SCHEDULE

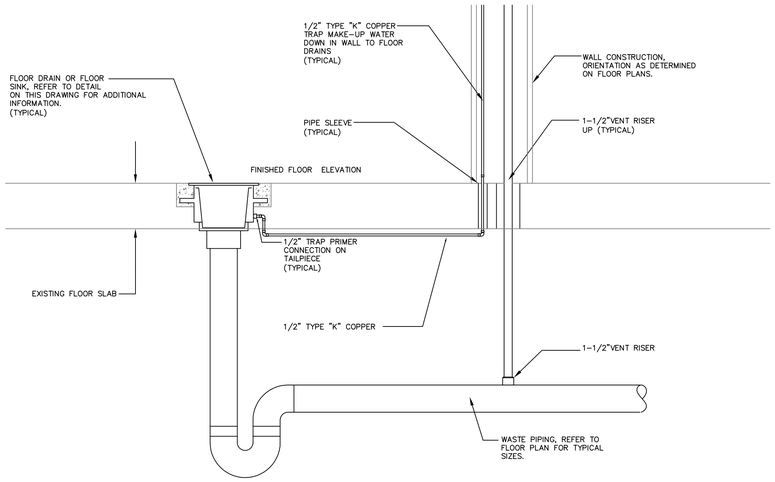
SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION OF FIXTURE	TRIM AND ACCESSORIES	REMARKS
L-1	KOHLER "PINOIR" MODEL # K-2035-4-0	LAVATORY: ACCESSIBLE, WALL MOUNTED, 4"SPACED FAUCET HOLES, VITREOUS CHINA, FRONT OVERFLOW. (COLOR SELECTION BY ARCHITECT)	T&S MODEL # B-0892-VF05 FAUCET, CHROME PLATED GRID STRAINER, INCLUDED W/LAVATORY K-2057 SHROUD.	#1,2,3,4
U-1 U-2	KOHLER MODEL # K-4918	URINAL: ACCESSIBLE, WALL HUNG, VITREOUS CHINA	2" OUTLET SPUD, HANGERS (2 REQUIRED), UNIVERSAL MOUNTING BRACKET, REMOVABLE STRAINER, SEALING LIQUID	#1,3,7
WC-1	KOHLER MODEL # K-4386	WATER CLOSET: ACCESSIBLE, FLOOR MOUNTED, ELONGATED BOWL, VITREOUS CHINA, 1½"TOP SPUD, 1.6 MAX GPF.	SLOAN MODEL# 111-1.28-ES-S-TMO CONCEALED, SENSOR FLUSH VALVE WITH INTEGRAL STOP, MECHANICAL OVERRIDE AND VACUUM BREAKER, BEMIS #1955CT OPEN FRONT, COVERLESS, WHITE SEAT.	#1,3,4,5,6,8
WC-2	KOHLER MODEL # K-4386	WATER CLOSET: STANDARD, FLOOR MOUNTED, ELONGATED BOWL, VITREOUS CHINA, 1½"TOP SPUD, 1.6 MAX GPF.	SLOAN ROYAL FLUSHOMETER MODEL# 111 1.28 SFSM WITH EBV-89-A SIDE MOUNT OPERATOR, VACUUM BREAKER, AND BEMIS #1955CT OPEN FRONT, COVERLESS, WHITE SEAT.	#1,3,4,5,6,8

REMARKS:
1. COLOR SHALL BE WHITE.
2. INSTALL TRUEBRO INC. MODEL #102, HANDI LAV-GUARD PROTECTOR ON THE HOT, COLD, AND DRAIN PIPING UNDER FIXTURE.
3. FIXTURES AND TRIM AS NOTED SHALL BE "ACCESSIBLE" AND SHALL BE INSTALLED TO ADA / ANSI A117 AND FEDERAL 504 REQUIREMENTS.
4. PROVIDE ISOLATION VALVES AT THE PIPE CONNECTIONS.
5. PROVIDE WATER HAMMER ARRESTORS AT THE PIPE CONNECTIONS.
6. SENSOR SHALL BE ADJUSTABLE. PROVIDE WITH SOLENOID VALVE, CHROME PLATED WALL PLATE AND MODEL EL-154 TRANSFORMER (120VAC/24 VAC) SENSOR SHALL BE ADJUSTABLE. PROVIDE WITH FILTERED SOLENOID VALVE, CONTROL MODULE AND MODEL EL-208 TRANSFORMER (120 VAC/ 24VAC).
7. FIXTURE U-1 SHALL BE ACCESSIBLE, U-2 SHALL BE MOUNTED AT A STANDARD HEIGHT, REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
8. CONTRACTOR SHALL ADJUST FLUSH VALVE HEIGHT AS REQUIRED FOR ADA COMPLIANT INSTALLATION OF GRAB BARS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF GRAB BARS.

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE TYPE	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION
ELECTRIC WATER COOLER	1 1/2"	1 1/2"	1/2"	-
JANITORS MOP BASIN	3"	1 1/2"	1/2"	1/2"
LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"
SHOWER	3"	1 1/2"	1/2"	1/2"
SINK	1 1/2"	1 1/2"	1/2"	1/2"
URINAL	2"	1 1/2"	3/4"	-
WATER CLOSET (FLUSH VALVE)	4"	2"	1"	-

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL PLUMBING FIXTURE MOUNTING HEIGHTS.



1 FLOOR DRAIN PIPING INSTALLATION DETAIL
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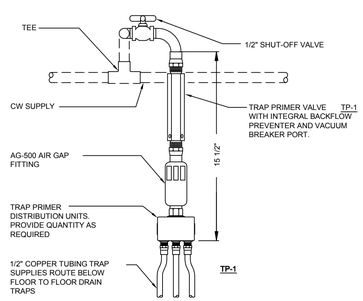


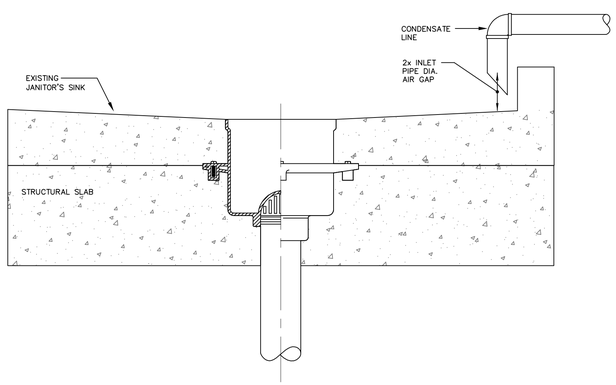
NOTES:

TRAP PRIMER SHALL BE LOCATED ABOVE AN ACCESSIBLE CEILING OR OTHER ACCESSIBLE LOCATION. PROVIDE ACCESS PANEL WHERE REQUIRED.

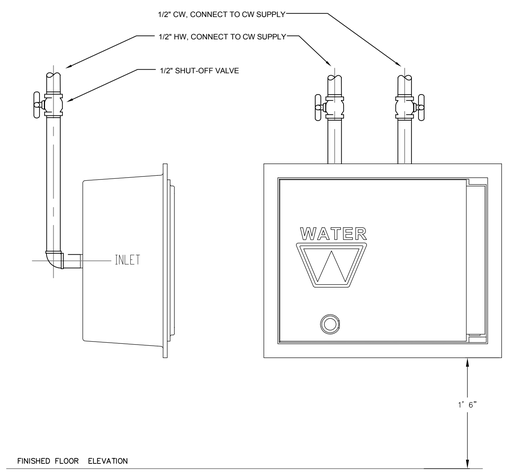
PROVIDE TRAP PRIMERS AT ALL FLOOR DRAIN LOCATIONS, REFER TO FLOOR PLANS FOR ALL FLOOR DRAINS.

CONTRACTOR SHALL BE RESPONSIBLE FOR WATER PIPE ROUTING FROM DISTRIBUTION UNIT TO FLOOR DRAIN.

2 TRAP PRIMER DETAIL - TP-1
N.T.S.



3 CONDENSATE TO EXISTING JANITOR SINK DETAIL
SCALE: NTS



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drawing title
PLUMBING SCHEDULES & LEGENDS

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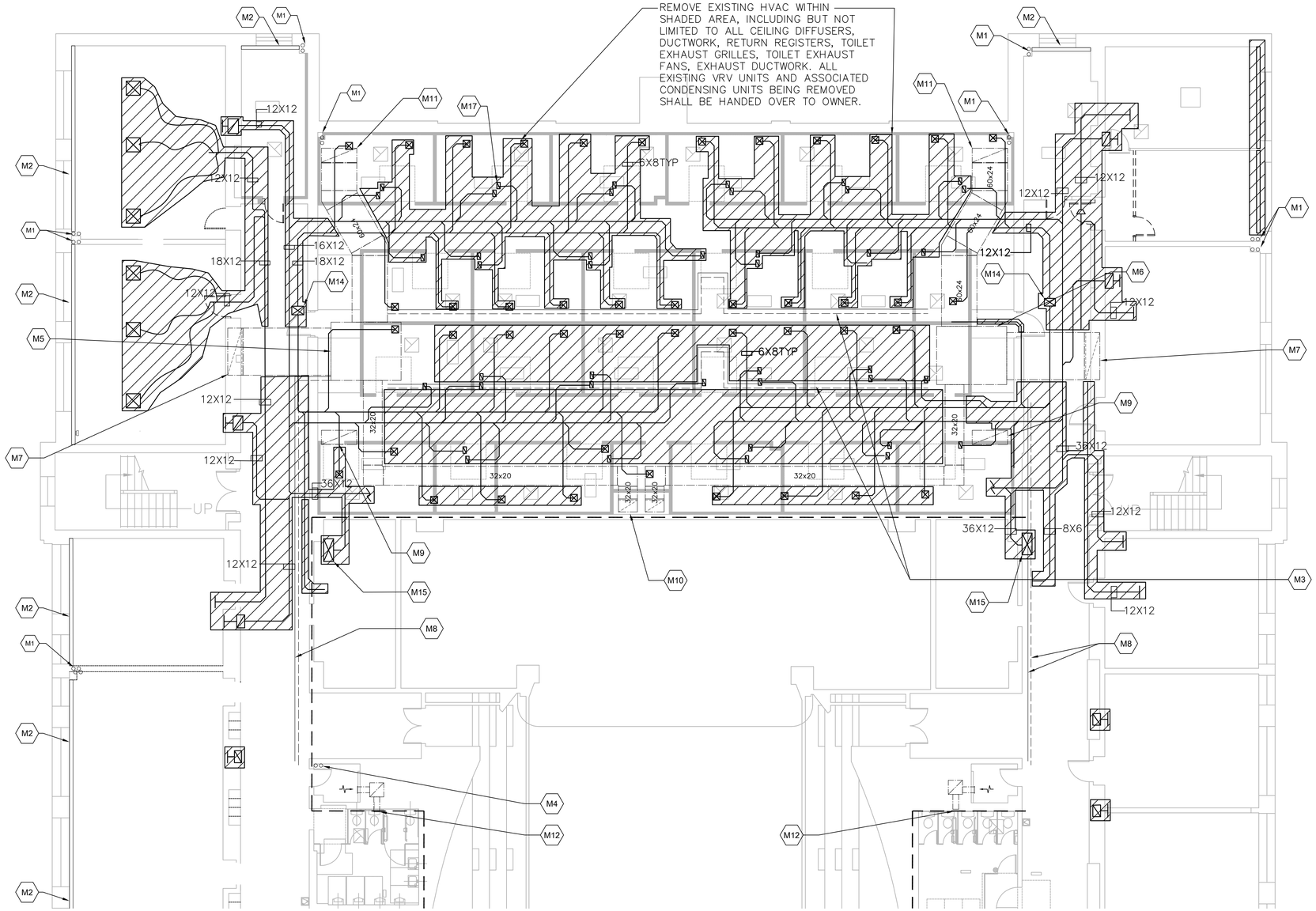
STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
CONSULTING ENGINEERING SERVICES, INC.
811 MIDDLE STREET
MIDDLETOWN, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no. BI-RD-299

date 07/25/18
scale AS NOTED
drawn by JVC
approved by PMA
drawing no. **P3.00**



DEMO MECHANICAL KEY NOTES

- M1 EXISTING HWS&R RISER TO REMAIN
- M2 EXISTING FIN TUBE ELEMENT TO REMAIN, REMOVE EXISTING ENCLOSURE, VALVES (ISOLATION AND CONTROL) AND HYDRONIC SPECIALTIES (STRAINER).
- M3 EXISTING CHILLED WATER SUPPLY AND RETURN, EXISTING HOT WATER SUPPLY AND RETURN REMAIN
- M4 EXISTING 3" HWS&R RISER UP & DOWN TO REMAIN
- M5 FCU NO. 1 AND ASSOCIATED PIPING TO REMAIN. EXISTING SUPPLY, RETURN AND OUTDOOR AIR DUCTS TO REMAIN UNLESS OTHER WISE NOTED
- M6 FCU NO. 2 AND ASSOCIATED PIPING TO REMAIN. EXISTING SUPPLY, RETURN AND OUTDOOR AIR DUCTS TO REMAIN UNLESS OTHER WISE NOTED
- M7 EXISTING SUPPLY DN TO REMAIN, CAP EXISTING BRANCH DUCTS BEING REMOVED.
- M8 EXISTING HOT WATER SUPPLY AND RETURN REMAIN
- M9 EXISTING 60x24 UP TO REMAIN
- M10 (2) EXISTING 30X20 RA DN TO REMAIN
- M11 EXISTING 60X24 OA UP TO REMAIN (TYP FOR 2)
- M12 EXISTING TOILET EXHAUST TO BE REMOVE BACK TO RISER, CAP AND SEAL.
- M13 SEE ARCHITECTURAL DRAWINGS FOR SCOPE OF WORK
- M14 14X20 DUCT UP
- M15 36X12 DUCT DN
- M16 EXISTING 10X8 VERTICAL RISER UP AND DN TO REMAIN
- M17 REMOVE EXISTING RETURN DUCT EXTENDING TO FLOOR LEVEL AND ASSOCIATED GRILLE.

drawing title
MECHANICAL DEMO SECOND FLOOR- NORTH PARTIAL PLAN

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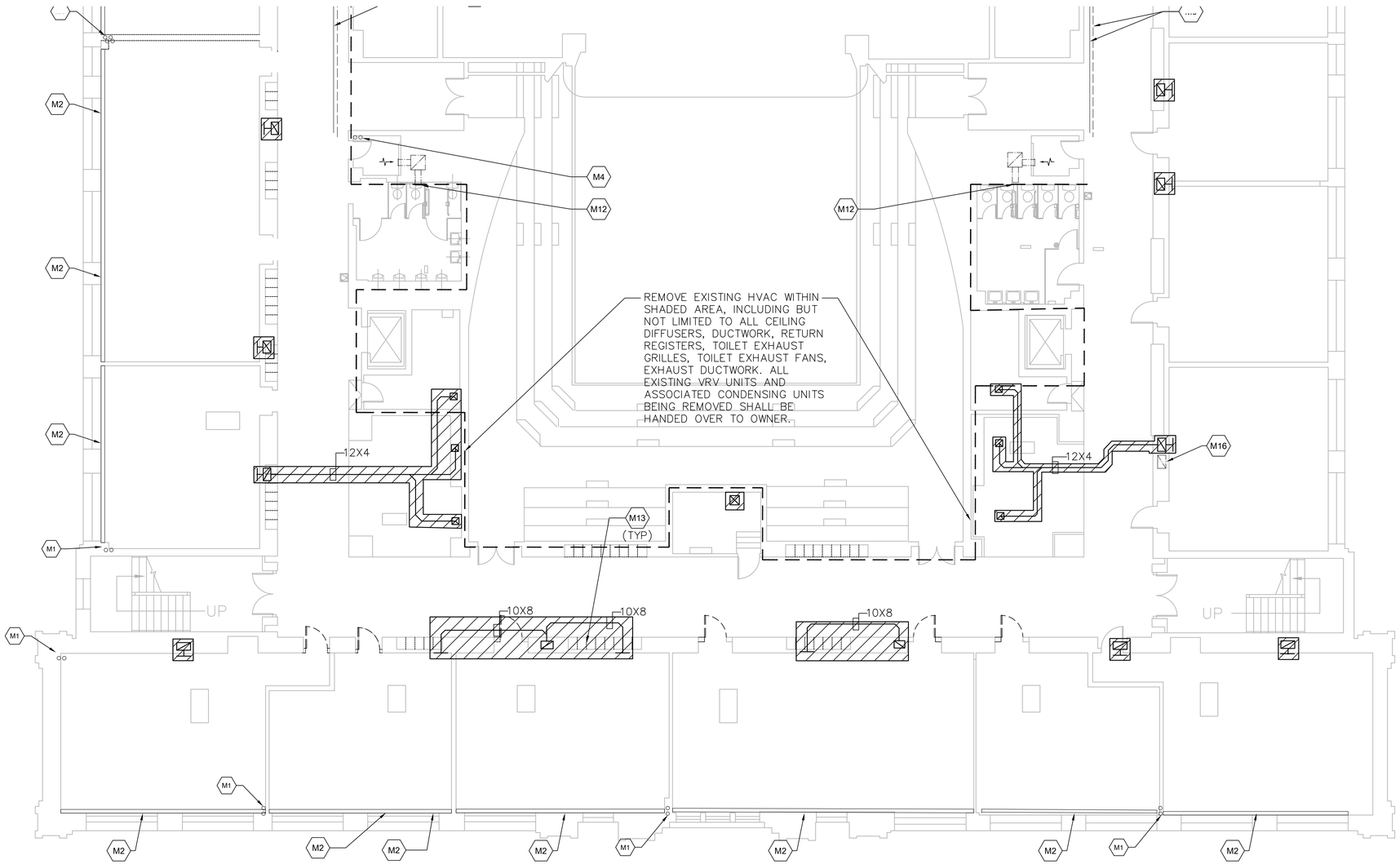

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drawing title
MECHANICAL DEMO SECOND FLOOR- SOUTH PARTIAL PLAN

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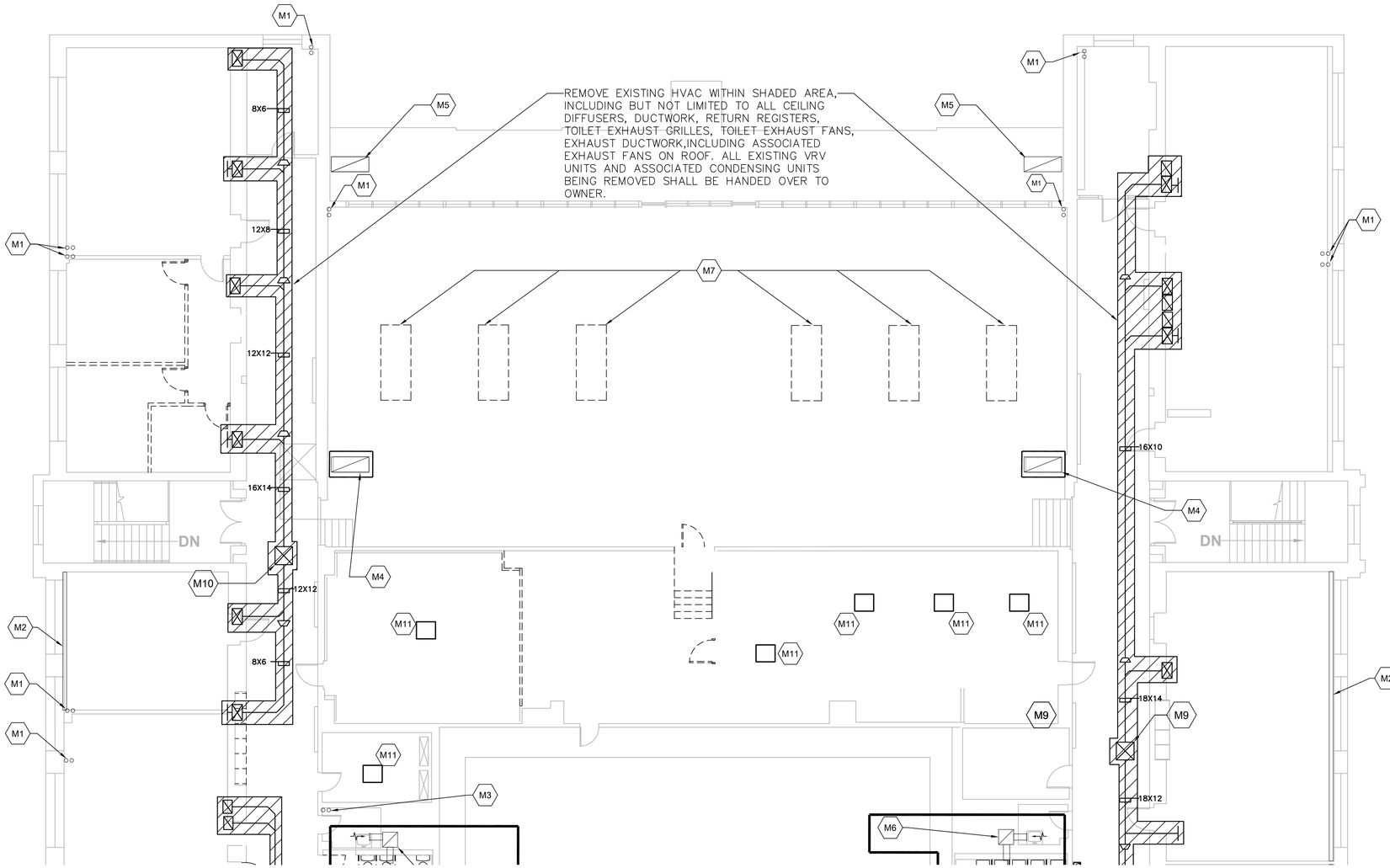

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- M6 EXISTING TOILET EXHAUST RISER TO REMAIN, REMOVE EXISTING DUCT WTIH TOILET ROOM BACK TO RISER, CAP AND SEAL.
- M7 SEE ARCHITECTURAL DRAWINGS FOR SCOPE OF WORK
- M8 REMOVE EXISTING 42X42 EA UP TO ROOF FAN. REMOVE FAN ON ROOF ABOVE.
- M9 REMOVE EXISTING 34X34 EA UP TO ROOF FAN. REMOVE FAN ON ROOF ABOVE.
- M10 REMOVE EXISTING 28X28 EA UP TO ROOF FAN. REMOVE FAN ON ROOF ABOVE.
- M11 REMOVE EXISTING INDOOR CEILING MOUNTED CASSETTE UNIT & ASSOCIATED OUTDOOR ROOF MOUNTED CONDENSING UNIT; REMOVE ALL REFRIGERANT PIPING; ALL REMOVED EQUIPMENT SHALL BE RETURNED TO OWNER'S REPRESENTATIVE.
- M12 EXISTING 10x8 EXHAUST DUCT DOWN TO FIRST FLOOR TO REMAIN.

drawing title
MECHANICAL DEMO THIRD FLOOR - NORTH PARTIAL PLAN

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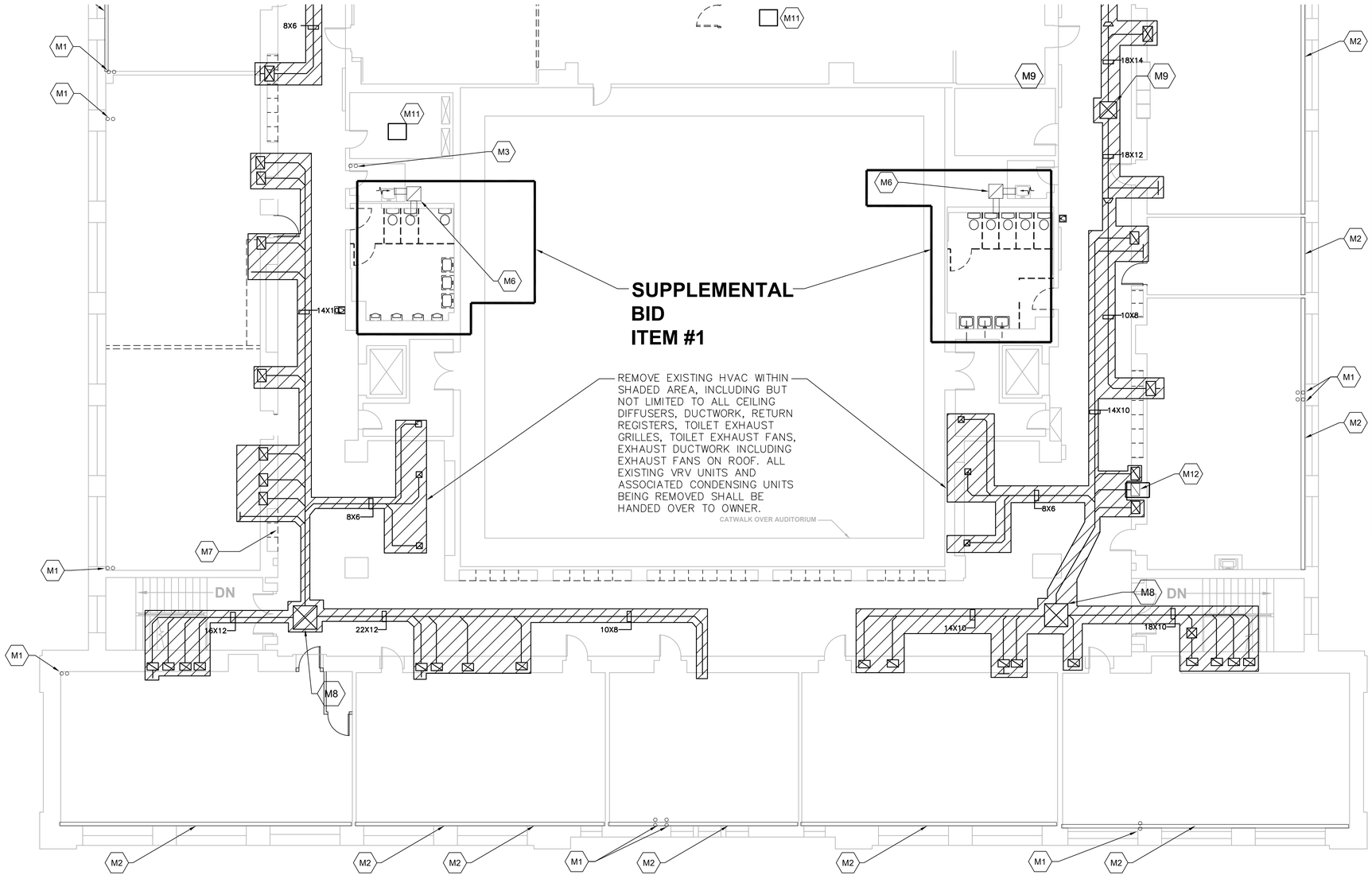

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MECHANICAL DEMO THIRD FLOOR - SOUTH PARTIAL PLAN

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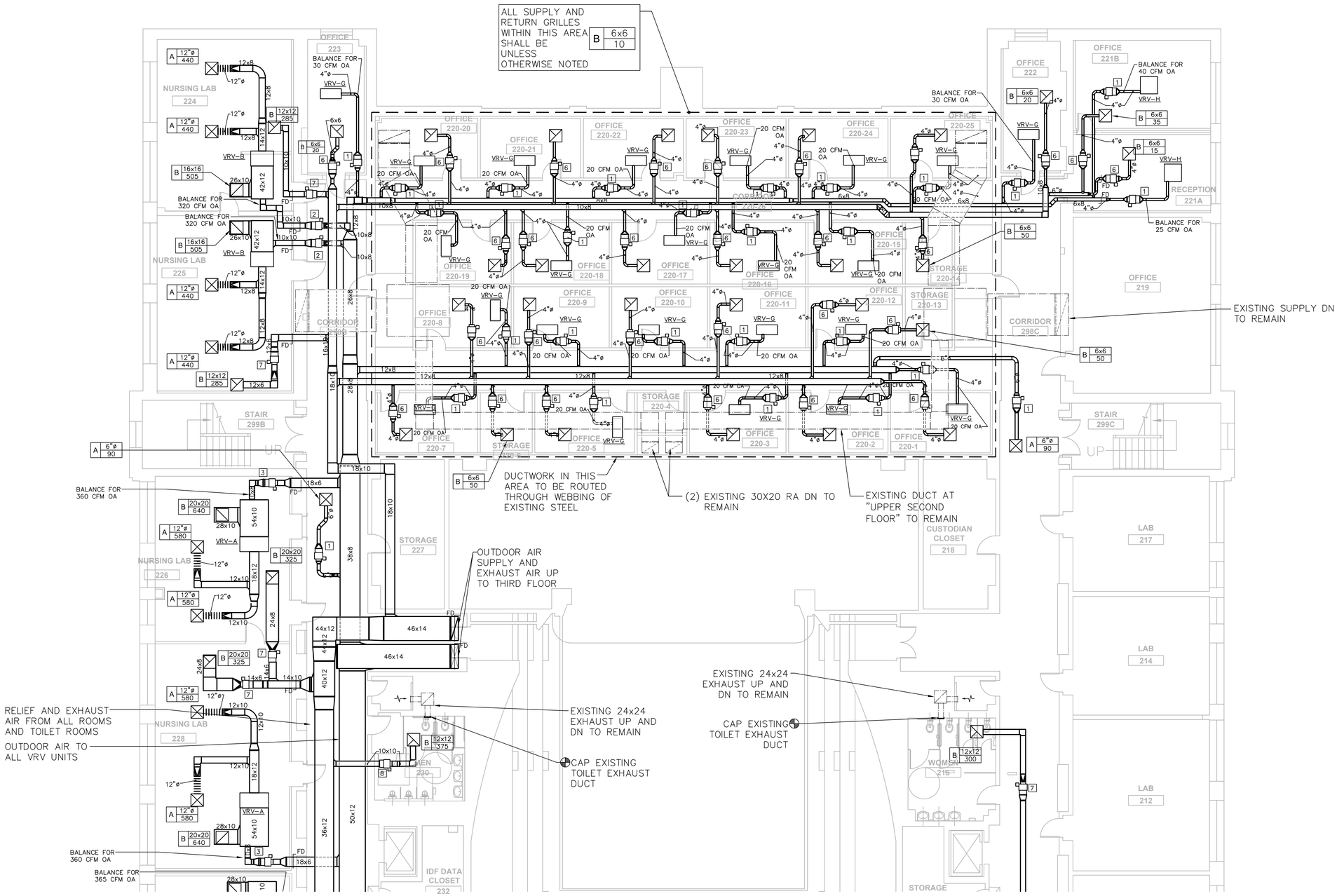

MECHANICAL NOTES

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3. ALL PENETRATIONS THROUGH FULL HEIGHT CORRIDOR WALLS SHALL BE SEALED AND FIRESTOPPED.
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7. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON GENERAL CONDITIONS, MATERIAL SPECIFICATIONS AND INSTALLATION.
8. PROVIDE CLEARANCE ADJACENT TO EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED TO PROPERLY MAINTAIN EQUIPMENT. PROVIDE MINIMUM 42" CLEARANCE IN FRONT OF EQUIPMENT, PIPE DROPS, ETC. CLEARANCES SHALL BE IDENTIFIED ON COORDINATION SHOP DRAWINGS.
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10. SEE VAV SCHEDULE FOR DUCT INLET SIZE.
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drawing title
MECHANCAL SECOND FLOOR - NORTH PARTIAL PLAN

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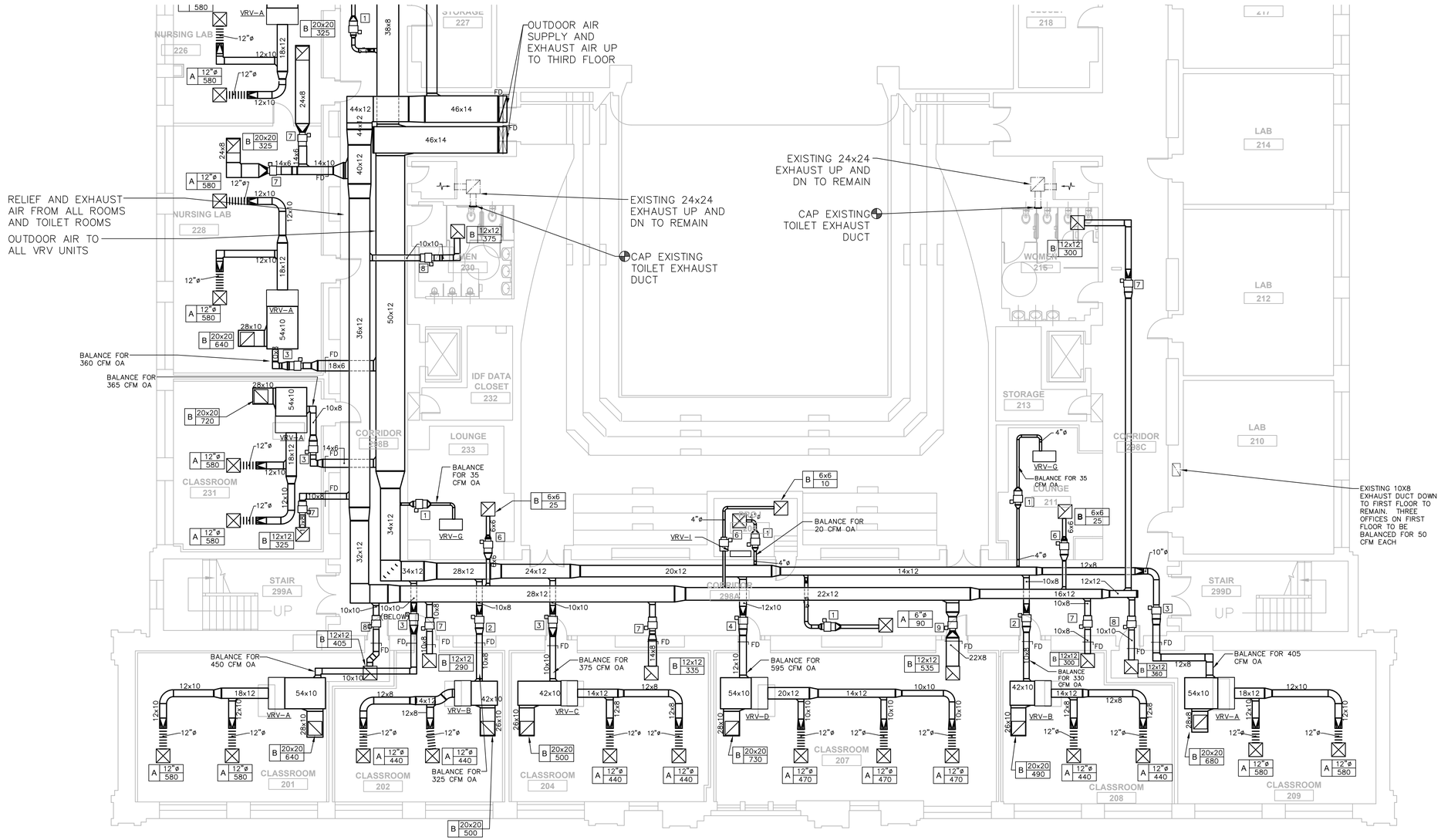

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drawing title
MECHANICAL SECOND FLOOR - SOUTH PARTIAL PLAN

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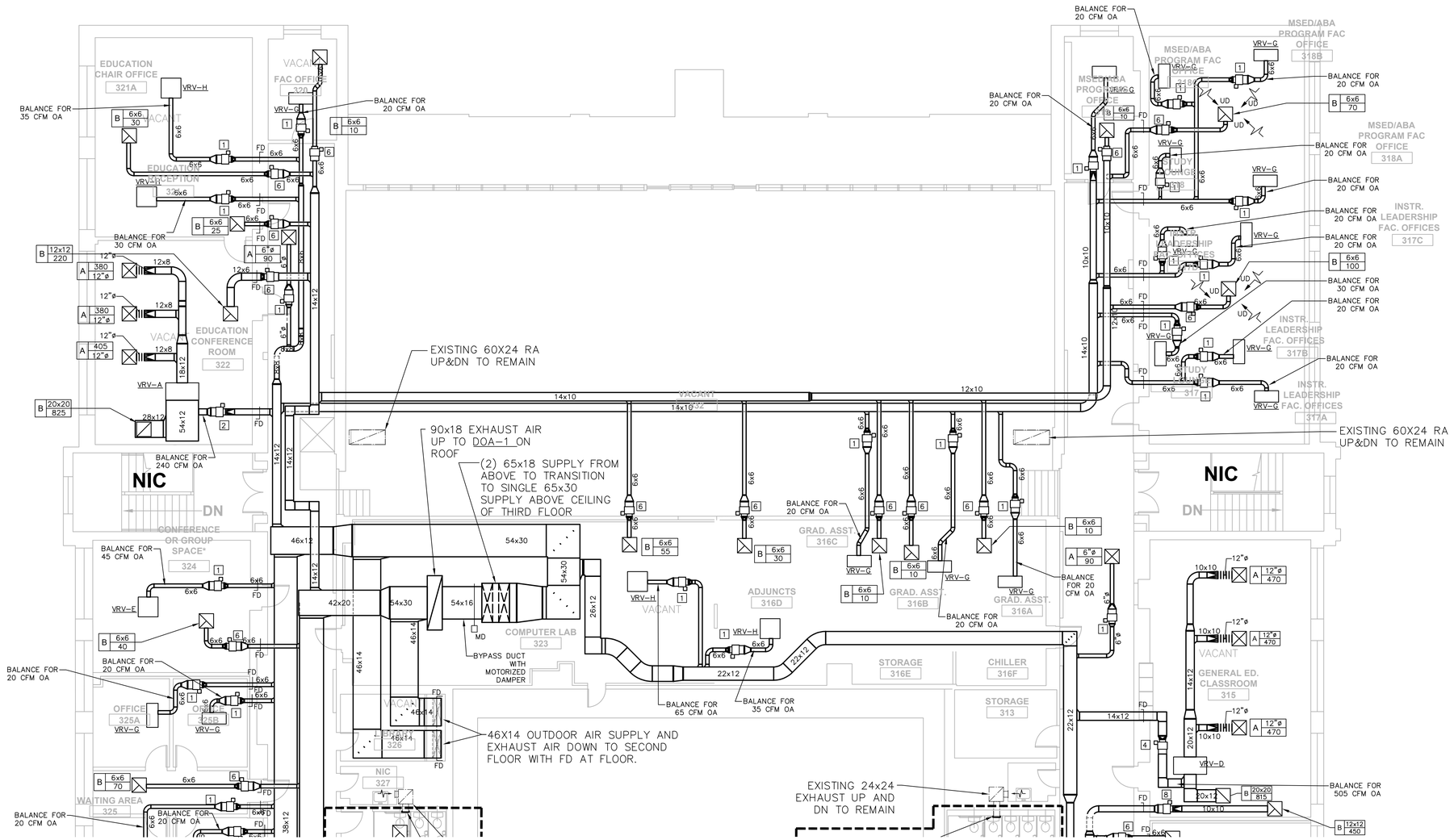

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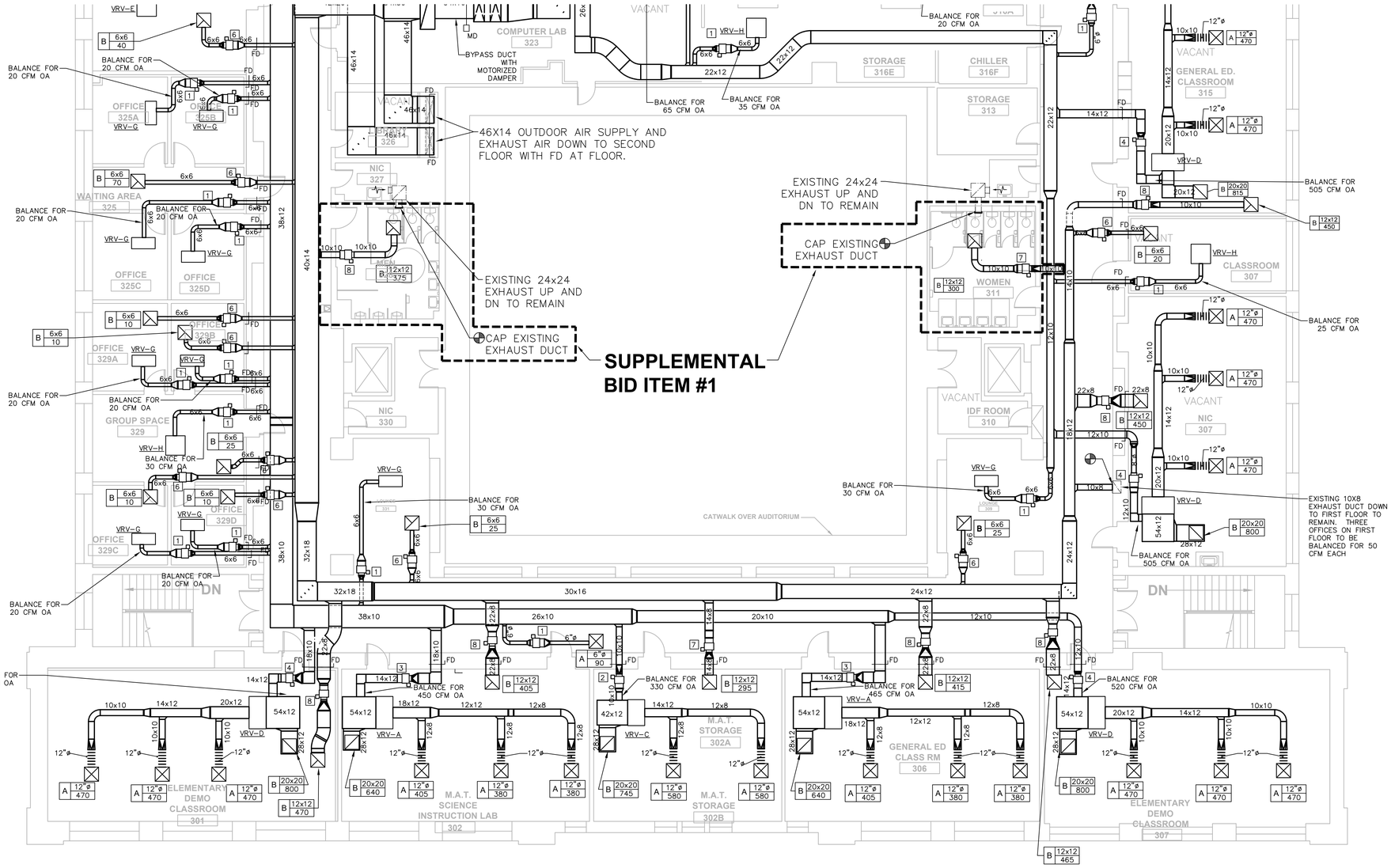

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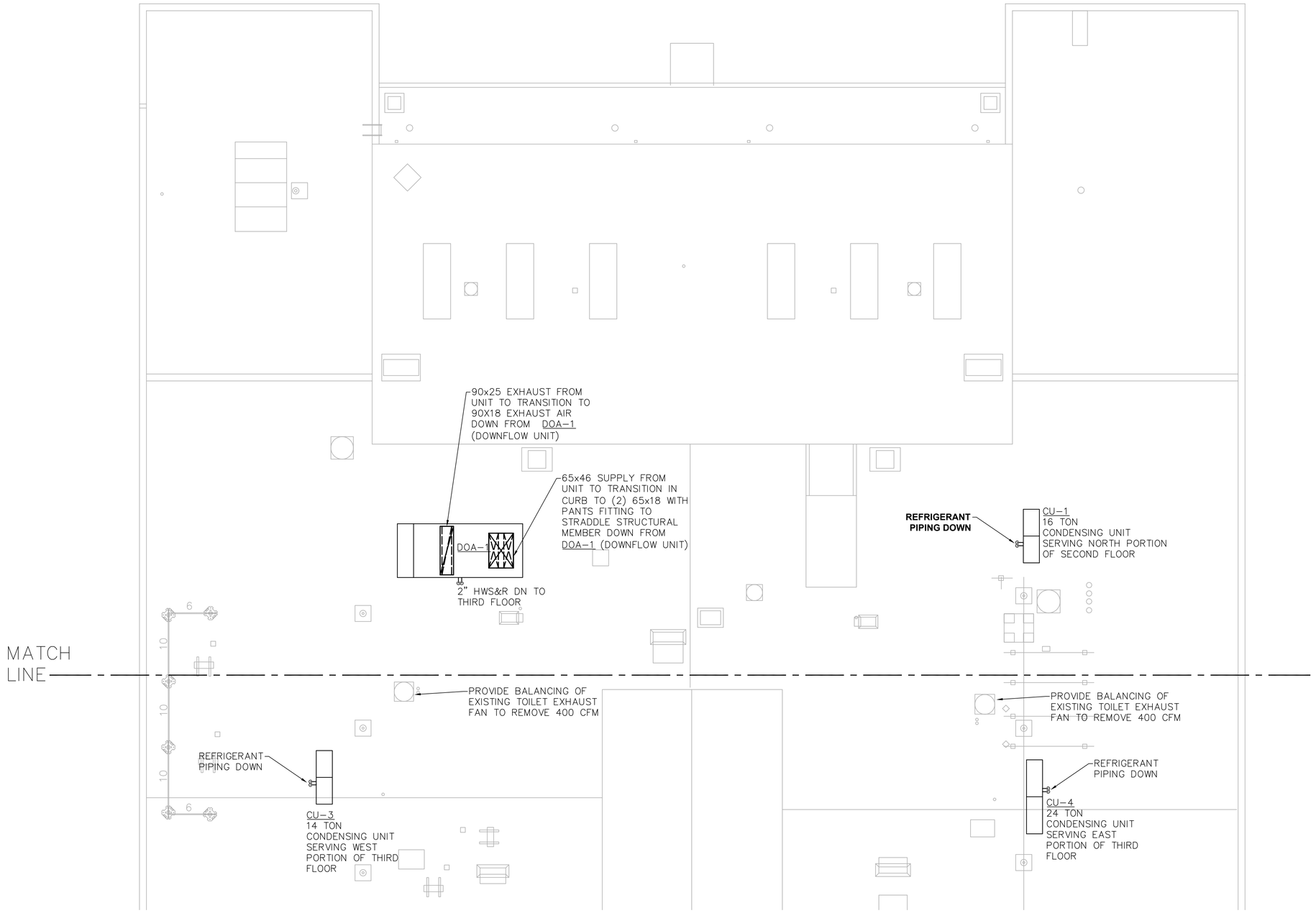

MECHANICAL ROOF NOTES

1. COORDINATE ROOFTOP HVAC EQUIPMENT WITH ROOF RE-COATING AND REPAIR.
2. DUCTWORK AND PIPING LAYOUTS DO NOT SHOW ALL TRANSITIONS AND OFFSETS THAT WILL BE REQUIRED. PROVIDE COORDINATION DRAWINGS AND OFFSET DUCTWORK AND PIPING AS REQUIRED.
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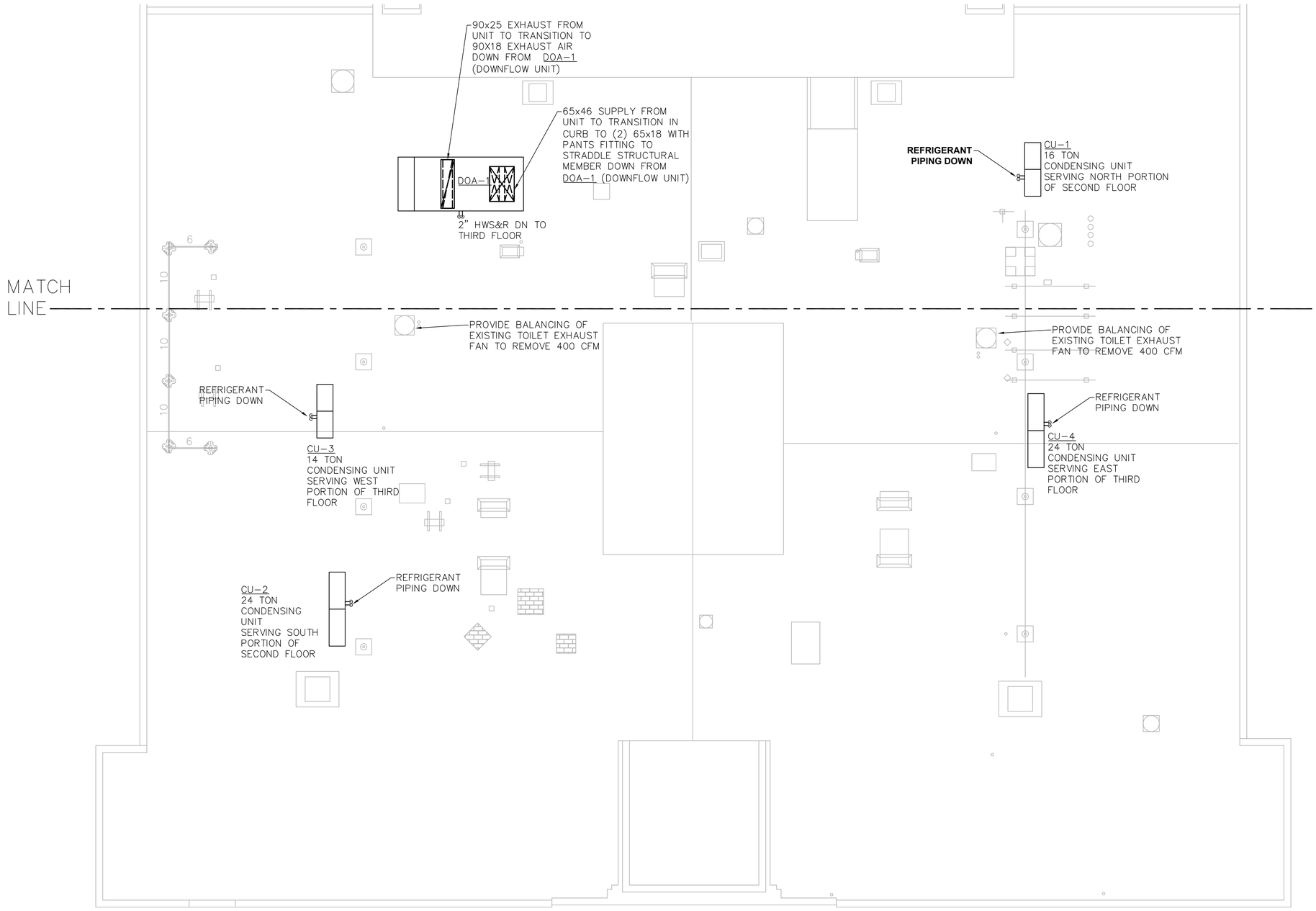
811 MIDDLE STREET
MIDDLETOWN, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no. xxxxxxxxxx.dwg
project no. BI-RD-299

date 07/25/18
scale AS NOTED
drawn by AJS
approved by PMA
drawing no. **M1.05**



MECHANICAL ROOF NOTES

1. COORDINATE ROOFTOP HVAC EQUIPMENT WITH ROOF RE-COATING AND REPAIR.
2. DUCTWORK AND PIPING LAYOUTS DO NOT SHOW ALL TRANSITIONS AND OFFSETS THAT WILL BE REQUIRED. PROVIDE COORDINATION DRAWINGS AND OFFSET DUCTWORK AND PIPING AS REQUIRED.
3. ALL PENETRATIONS THROUGH FULL HEIGHT CORRIDOR WALLS SHALL BE SEALED AND FIRESTOPPED.
4. CLEAN INTERIOR OF ALL NEW DUCTWORK, REFER TO SPECIFICATIONS.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON GENERAL CONDITIONS, MATERIAL SPECIFICATIONS AND INSTALLATION.
6. PROVIDE CLEARANCE ADJACENT TO EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED TO PROPERLY MAINTAIN EQUIPMENT. PROVIDE MINIMUM 42" CLEARANCE IN FRONT OF EQUIPMENT, PIPE DROPS, ETC. CLEARANCES SHALL BE IDENTIFIED ON COORDINATION SHOP DRAWINGS.

drawing title
MECHANICAL ROOF-SOUTH PARTIAL PLAN

REVISIONS

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STATE OF CONNECTICUT
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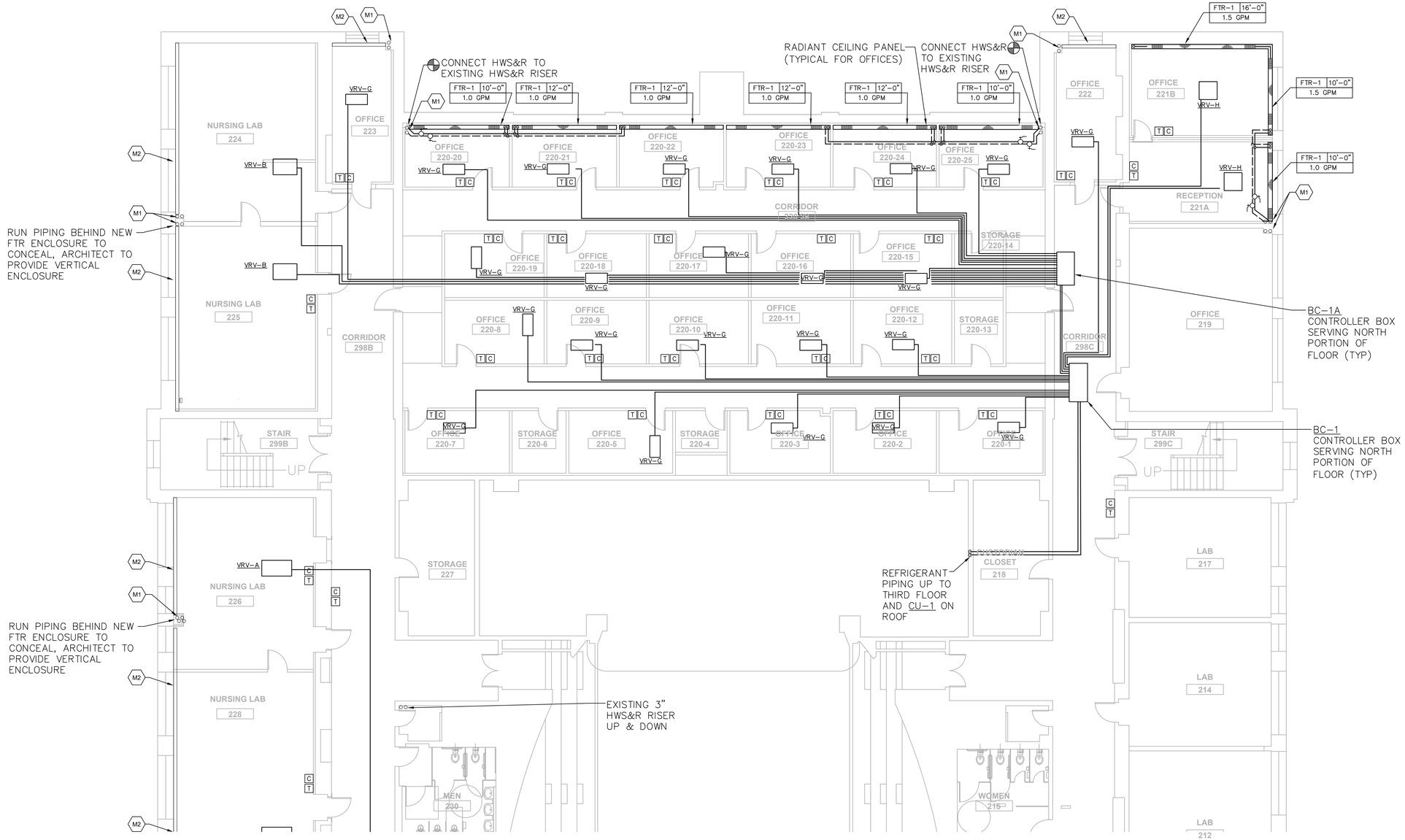

MECHANICAL KEY NOTES

M1	CONNECT TO EXISTING HWS&R RISER.
M2	EXISTING FIN TUBE RADIATION, PROVIDE NEW ENCLOSURE, ELECTRIC DDC CONTROL VALVE, ISOLATION VALVE, BALANCING VALVE AND STRAINER, NEW ENCLOSURE SHALL BE RITTLING MODEL IBGHL5, DIMENSIONS 24" HIGH X 5-3/8" DEEP, LENGTH SHALL BE WALL TO WALL.

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drawing title
MECHANICAL PIPING SECOND FLOOR - NORTH PARTIAL PLAN

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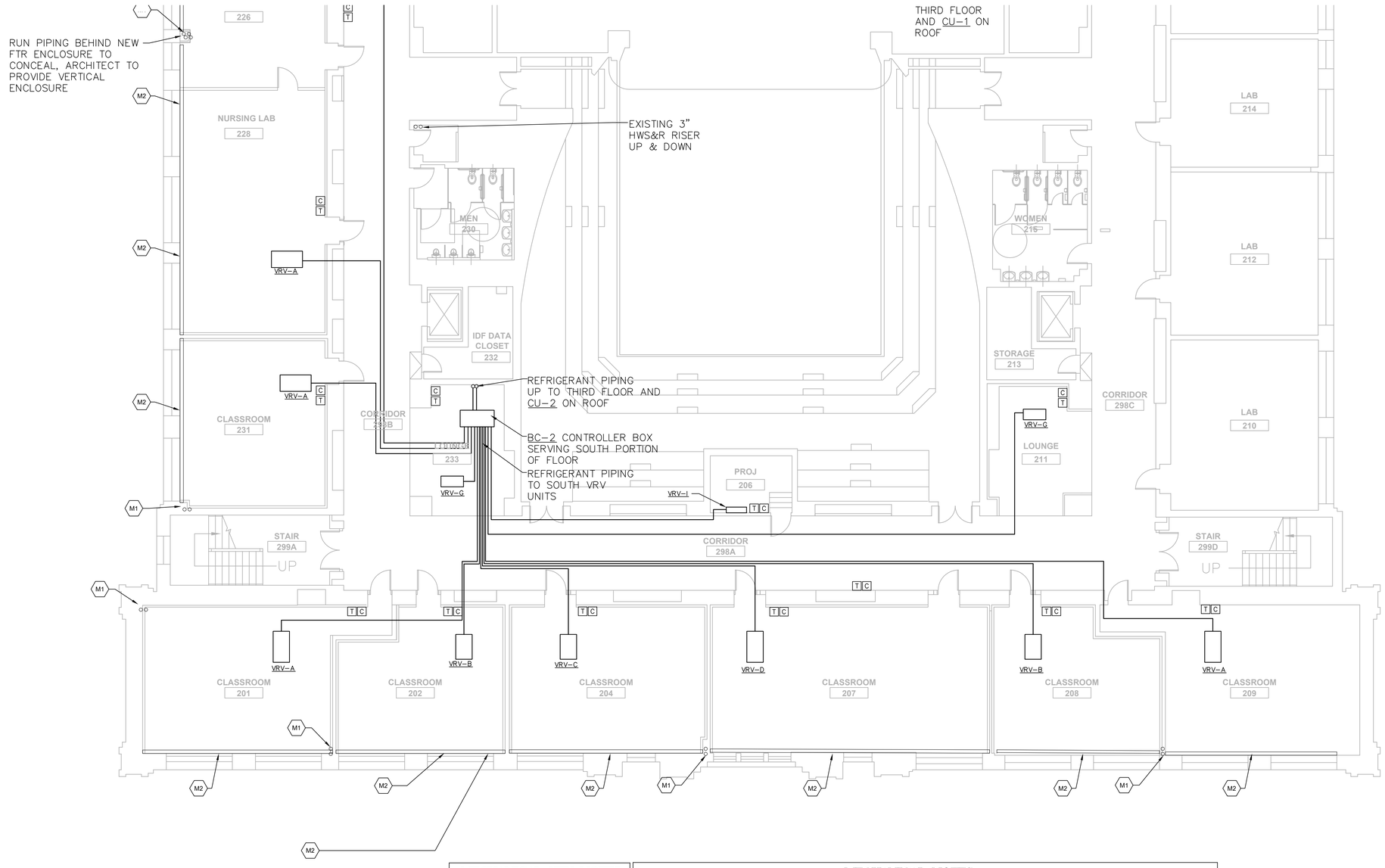

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drawing title
MECHANICAL PIPING SECOND FLOOR - SOUTH PARTIAL PLAN

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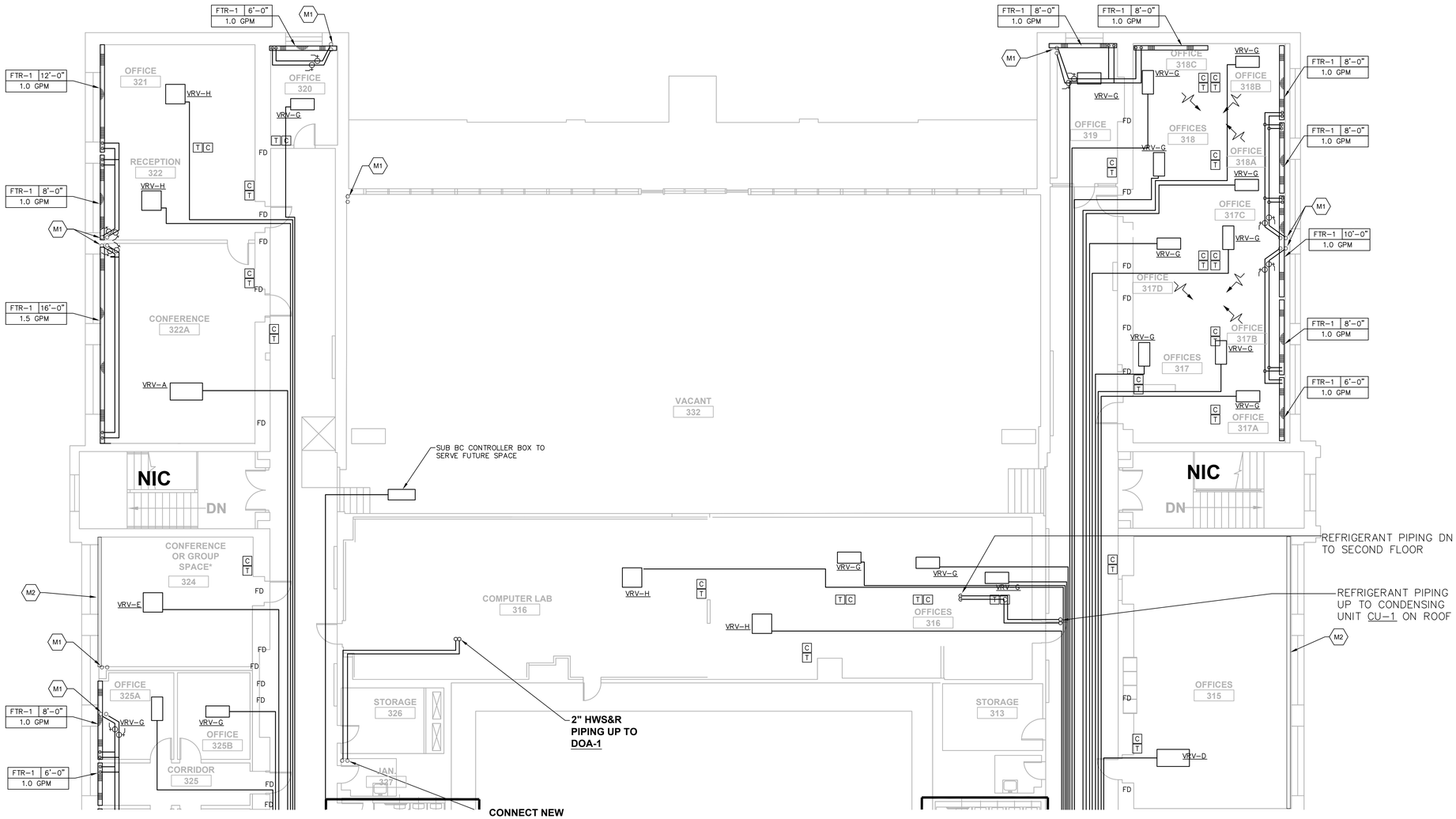

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drawing title
MECHANICAL THIRD FLOOR - NORTH PARTIAL PLAN

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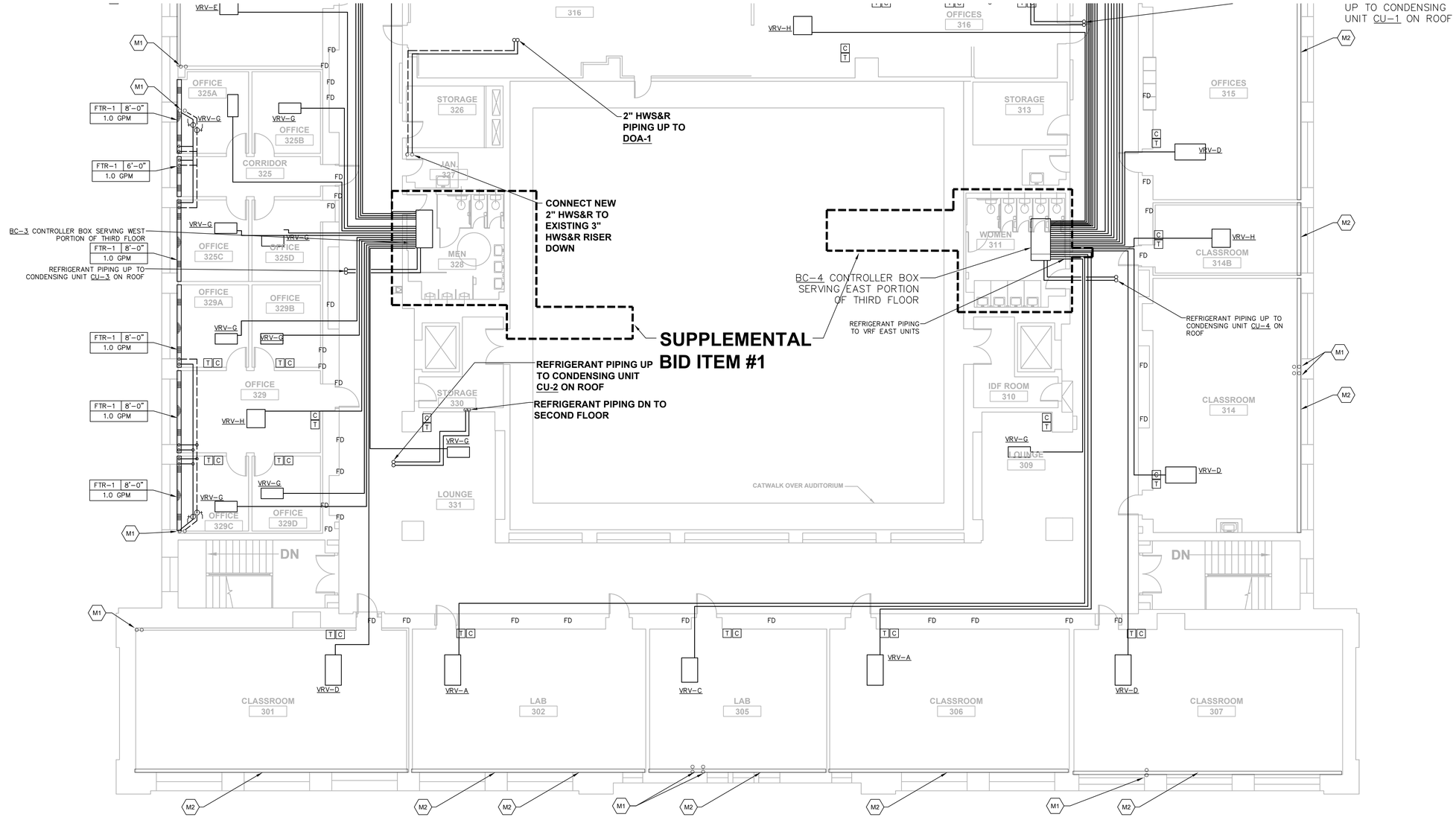

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MECHANICAL PIPING THIRD FLOOR - SOUTH PARTIAL PLAN

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DEDICATED OUTDOOR AIR UNIT W/ ENERGY RECOVERY SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	LOCATION	UNIT SIZE	SUPPLY FAN DATA										VFD REQ'D (DIV.23)	DX COIL DATA									HOT WATER HEATING COIL DATA									REHEAT DATA			RETURN/EXHAUST FAN DATA								ELECTRICAL MCA	OPERATING WEIGHT (LBS)	REMARKS
				CFM	MIN. (CFM)	ESP (IN WG)	TSP (IN WG)	SPEED (RPM)	BHP	MOTOR DATA					TOTAL COOLING MBH	SENSIBLE COOLING MBH	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	ROWS	APD ("WC)	FACE VEL. (FPM)	CAPACITY (MBH)	GPM	EWT (°F)	LWT (°F)	EAT (°F)	LAT (°F)	APD ("WC)	WPD ("WC)	ROWS	CAPACITY (MBH)	LAT DB/WB (°F)	RH (%)	CFM	TSP (IN WG)	SPEED (RPM)	BHP	MOTOR DATA						
										HP	RPM	VOLTS	PH																									HP	RPM	VOLTS	PH			
DOA–1	AAON RN–026–8–0–EA09–EHL	ROOF MOUNTED	026	9250	–	1.5	3.45	–	7.65	15	–	208	3	YES	277.01	235.11	80.87	66.49	58.90	56.45	3	–	–	303.0	26.8	180.0	157.0	60.0	89.8	–	–	–	132.0	70.00/60.62	59	9340	1.66	–	1.86	5	–	208	3	193.0	6688	–

REMARKS:
1. SEE DETAIL ON 3/M3.01
2. PROVIDE NEMA COMPLIANT MOTORS
3. PROVIDE VFD FACTORY INSTALLED AND PREWIRED TO DISCONNECT. POWER AND CIRCUITING FOR VFD SHALL BE DONE AS PART OF WORK OF DIVISION 26.
4. PRE–FILTERS SHALL BE 2" PLEATED, 30% EFFICIENCY, UNIT FILTER 4" PLEATED – 85% EFFFIECINECY–MERV 13.
5. FACE AND BYPASS SECTION SHALL BE INTERNAL CONFIGURATION.
6. PROVIDE WITH STAINLESS STEEL DRAIN PANS.
7. STARTER AND DISCONNECTS FURNISHED BY DIV. 23 AND WIRED BY DIV. 26.
8. AIR HANDLING PERFORMANCE DATA IN ACCORDANCE WITH ARI 430
9. PROVIDE 14" CURB, AUX BOD 2" VIBRATION ISOLATION BY KCC INTERNATIONAL.
13. 100% OUTSIDE AIR UNIT WITH ROTARY TYPE TOTAL HEAT RECOVERY WHEEL (ENTHALPY)
14. SEE ENERGY RECOVERY WHEEL SCHEDULE THIS SHEET FOR ENERGY RECOVERY WHEEL PERFORMANCE
15. PROVIDE RETURN AIR BYPASS DAMPER, OUTSIDE AIR DAMPER. AND EXHAUST AIR DAMPER.
16. UNIT SHALL BE SUPPLIED WITH DDC CONTROLS & END DEVICES FROM TEMPERATURE CONTROL CONTRACTOR.
17. PROVIDE HOT GAS REHEAT COIL.

ENERGY RECOVERY SCHEDULE (INTEGRAL TO DOA-1)

GENERAL			PERFORMANCE – GENERAL						PERFORMANCE – WINTER									PERFORMANCE – SUMMER									
UNIT	MODEL	TYPE	SUPPLY AIR		EXHAUST AIR		EFFECTIVENESS		SUPPLY AIR				EXHAUST AIR				TOTAL CAPACITY (MBH)	SUPPLY AIR				EXHAUST AIR				TOTAL CAPACITY (MBH)	ELECTRICAL HP V/PH
			CFM	APD (IN WG)	CFM	APD (IN WG)	WINTER (%)	SUMMER (%)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)		EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)		
ERV–DOA–1	(2)ERC–5262C	WHEEL	9250	0.76	9340	0.76	69	72	10.0	9.0	54.33	46.68	75.0	62.0	30.28	30.1	683.97	95.0	75.0	80.87	66.49	75.0	62.0	88.81	71.2	291.52	(2) 0.1667 HP 208/1

VRV SYSTEM - INDOOR AIR HANDLER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TYPE	LOCATION	NOM. TONS	FAN	CAPACITIES		REFRIGERANT PIPING FROM BC CONTROLLER TO AIR HANDLER		ELECTRICAL			SOUND (DB) @MED	REMARKS
						CFM (LOW–HIGH)	COOLING (BTUH)	HEATING (BTUH)	LIQUID	GAS	MCA	VOLTS	PHASE		
VRV–A	MITSUBISHI	PEFY–P36NMAU–E3	D	SEE MECHANICAL FLOOR PLANS	3.0	812–1165	36,000	40,000	3/8"	5/8"	3.32	208	1	37	ALL
VRV–B	MITSUBISHI	PEFY–P30NMAU–E3	D	SEE MECHANICAL FLOOR PLANS	2.5	618–883	30,000	34,000	3/8"	5/8"	2.73	208	1	34	ALL
VRV–C	MITSUBISHI	PEFY–P24NMAU–E3	D	SEE MECHANICAL FLOOR PLANS	2.0	618–883	24,000	27,000	3/8"	5/8"	2.73	208	1	34	ALL
VRV–D	MITSUBISHI	PEFY–P48NMAU–E3	D	SEE MECHANICAL FLOOR PLANS	4.0	989–1412	48,000	54,000	3/8"	5/8"	3.41	208	1	40	ALL
VRV–E	MITSUBISHI	PLFY–EP24NEMU–E	A	SEE MECHANICAL FLOOR PLANS	2.0	636–812	24,000	27,000	3/8"	5/8"	0.54	208	1	32	ALL
VRV–F	MITSUBISHI	PEFY–P54NMAU–E3	D	SEE MECHANICAL FLOOR PLANS	4.5	1042–1483	54,000	60,000	3/8"	5/8"	3.31	208	1	41	ALL
VRV–G	MITSUBISHI	PMFY–P06NBMU–ER5	E	SEE MECHANICAL FLOOR PLANS	0.5	230–307	6,000	6,700	1/4"	1/2"	0.25	208	1	33	ALL
VRV–H	MITSUBISHI	PLFY–EP12NEMU–E	A	SEE MECHANICAL FLOOR PLANS	1.0	494–600	12,000	13,500	1/4"	1/2"	0.39	208	1	30	ALL
VRV–I	MITSUBISHI	PKFY–P08NHMU–E2	B	SEE MECHANICAL FLOOR PLANS	0.75	320–413	8,000	9,000	1/4"	1/2"	0.38	208	1	43	ALL

TYPE:
A. 4–WAY CEILING RECESSED CASSETTE.
B. HIGH WALL.
C. CEILING SUSPENDED.
D. DUCTED CONCEALED.
E. ONE–WAY CEILING RECESSED CASSETTE.

REMARKS:
1. COOLING CAPACITY AT 80°F EDB, 67°F EWB, & 95°F ODB. HEATING CAPACITY AT 70°F EDB, 47°F ODB & 43°F OWB.
2. FURNISH AND INSTALL MANUFACTURES WIRED REMOTE TEMPERATURE SENSOR.
3. FURNISH AND INSTALL ALL CONTROL WIRING NECESSARY FROM OUTDOOR UNIT, INDOOR UNIT, AND ALL OTHER CONTROLS ASSOCIATED WITH SYSTEM.
4. PROVIDED WITH INTERNAL CONDENSATE PUMP.

VRF–A → VRV MODEL NUMBER

VRV OUTDOOR CONDENSING UNIT SCHEDULE

SYMBOL	MANUFACTURER	MODEL	MODULES		LOCATION	NOMINAL TONS	CAPACITIES		ELECTRICAL				SOUND PRESSURE (dBA)	WEIGHT (LBS)		REMARKS	UNITS SERVED
			(a)	(b)			COOLING (BTUH)	HEATING (BTUH)	MCA (a)	MCA (b)	VOLTS	PHASE		(a)	(b)		
CU–1	MITSUBISHI	PURY–P192TSKMU–A	96	96	ROOF	16	192,000	215,000	34	34	208	3	61	538	538	ALL	SEE FLOOR PLANS AND M3.04
CU–2	MITSUBISHI	PURY–P288TSKMU–A	144	144	ROOF	24	288,000	320,000	53	53	208	3	64	715	715	ALL	SEE FLOOR PLANS AND M3.04
CU–3	MITSUBISHI	PURY–P168TSKMU–A	96	72	ROOF	14	168,000	188,000	34	23	208	3	61	538	503	ALL	SEE FLOOR PLANS AND M3.05
CU–4	MITSUBISHI	PURY–P288TSKMU–A	144	144	ROOF	24	288,000	320,000	53	53	208	3	64	715	715	ALL	SEE FLOOR PLANS AND M3.05

REMARKS:
1. R410A REFRIGERANT. CAPACITY RATINGS AT ARI CONDITIONS. COOLING – 80°F EDB, 67°F EWB, 95°F ODB. HEATING – 70°F EDB, 47°F ODB, 43°F OWB.
2. DIVISION 26 TO PROVIDE DISCONNECT PER "a" MODULE AND "b" MODULE
3. PROVIDE WITH ALL REQUIRED EQUIPMENT FOR LOW AMBIENT OPERATION.

VRV SYSTEM COOLING UNIT GENERAL NOTES

A. FOR THE MAIN REFRIGERANT LINES FROM THE ROOFTOP HEAT PUMP UNITS TO THE BRANCH SELECTOR BOXES, EACH LINE ON PLAN REPRESENTS THREE LINES A LIQUID, HIGH PRESSURE GAS & LOW PRESSURE GAS REFRIGERANT PIPE. FOR THE BRANCH LINES FROM THE BRANCH SELECTOR BOX TO THE AIR HANDLERS, EACH LINE ON PLAN REPRESENTS TWO LINES A GAS & A LIQUID REFRIGERANT PIPE. FOR REFRIGERANT PIPE SIZES CONSULT MANUFACTURE, REFRIGERANT PIPE RISERS INCLUDED IN DRAWINGS SHALL BE REVIEWED AND CONFIRMED BY MANUFACTURE PRIOR TO PURCHASING ANY AND ALL EQUIPMENT.

B. A LOW VOLTAGE SOLID STATE MOISTURE SENSOR (DIVERSATECH MODEL WS–1). PROVIDE TRANSFORMER AS REQUIRED TO OPERATE THE MOISTURE SENSOR. CONNECT MOISTURE SENSOR TO ASSOCIATED AIR HANDLER INPUT. FOR AIR HANDLERS, UPON DETECTION OF MOISTURE BY THE MOISTURE SENSOR, THE RESPECTIVE SPLIT SYSTEM AIR HANDLER SHALL SHUT DOWN AND SHALL CAUSE AN ALARM CONDITION AT CENTRALIZED CONTROLLER. FOR SPLIT SYSTEM CONTROLLERS, UPON DETECTION OF MOISTURE BY THE MOISTURE SENSOR, THE RESPECTIVE HEAT PUMP SHALL SHUT DOWN AND SHALL CAUSE AN ALARM CONDITION. MOISTURE SENSOR SHALL BE INSTALLED IN THE EQUIPMENT SUPPLIED DRAIN PAN, LOCATED AT A POINT BETWEEN THE PRIMARY DRAIN LINE CONNECTION AND OVER FLOW LINE.

C. PROVIDE SPLIT SYSTEM REFRIGERANT PIPING BETWEEN THE INDOOR UNIT, BRANCH SELECTOR BOX AND THE OUTDOOR UNIT, INSTALL PER MANUFACTURERS INSTRUCTIONS.

D. PROVIDE BACneT GATEWAY OR APPROVED EQUAL. GATEWAY SHALL BE USED FOR INTEGRATION OF VRV SYSTEM TO BUILDING AUTOMATION SYSTEM.

E. SYSTEM SHALL BE PROVIDED WITH MANUFACTURER START–UP AND FULL DAY OF TRAINING (8 HOURS, TO TAKE PLACE OVER TWO DAYS).

BRANCH CONTROLLER BOX SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LIQUID (BC TO CU)	SUCTION (BC TO CU)	MAXIMUM INDOOR UNITS SERVED	WEIGHT (LBS)	ELECTRICAL			REMARKS/ASSOCIATED CONDENSING UNIT
							MCA	VOLTS	PHASE	
BC–1	MITSUBISHI	CMB–P1016NU–HA1	7/8"	1–1/8"	16	148	1.65	208	1	1/CONNECTED TO CU–1
BC–1A	MITSUBISHI	CMB–P1016NU–HB1	3/4"	1–1/8"	16	76	1.46	208	1	1/CONNECTED TO CU–1
BC–2	MITSUBISHI	CMB–P1016NU–HA1	7/8"	1–1/8"	16	148	1.65	208	1	1/CONNECTED TO CU–2
BC–3	MITSUBISHI	CMB–P1016NU–HA1	7/8"	1–1/8"	16	148	1.65	208	1	1/CONNECTED TO CU–3
BC–4	MITSUBISHI	CMB–P1016NU–HA	7/8"	1–1/8"	16	148	1.65	208	1	1/CONNECTED TO CU–4

REMARKS:
1. PROVIDE INSULATED FULL PORT BALL VALVES AND SHRAEDER CONNECTION ON ALL PORTS, INCLUDING SPARE PORTS.

DIFFUSER AND REGISTER SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	DUTY	TYPE	BORDER TYPE	CONSTRUCTION			MAX NC	REMARKS
					OBD	FRAME	BLADES		
A	KRUEGER/ SHR	SUPPLY	DD, LF	REMARK 2	–	STEEL	STEEL	20	1, 2, 3
B	KRUEGER/ S80	RETURN	LF	REMARK 2	–	STEEL	STEEL	20	8

TYPES:
DD – DIRECTIONAL DIFFUSER
HD – HEAVY DUTY
LF – LOUVERED FACE
LD – LINEAR DIFFUSER
DR – DRUM LOUVER
FR – FACTORY PROVIDED FILTER FRAMING

INDICATES DIFFUSER → A | 12x12 (INDICATES NECK SIZE) | 300 (INDICATES UNIT CFM CAPACITY)

REMARKS:
1. SQUARE TO ROUND TRANSITION. ALSO SEE FLEXIBLE DUCT SCHEDULE.
2. PROVIDE 24X24 PANEL FOR ACOUSTIC CEILING TILE APPLICATION; PROVIDE SURFACE MOUNT FOR GYPSUM OR PLASTER CEILING APPLICATION.
3. 6"ø NECK = 6X6 NECK SIZE APPLICATION; 8"ø NECK = 9X9 NECK SIZE APPLICATION; 12"ø NECK = 12X12 NECK SIZE APPLICATION; 14"ø NECK = 15X15 NECK SIZE APPLICATION, 16"ø NECK = 18X18 NECK SIZE APPLICATION.
4. PROVIDE DOUBLE DEFLECTION WITH 0.75" GRILLE SPACING.
5. 4 FT LONG HORIZONTAL THROW LINEAR DIFFUSER WITH TWO (2) SLOT. EACH SLOT IS 1.5" WIDE. PROVIDE WITH FACTORY FURNISHED PLENUM WITH 8"ø INLET.
6. 4FT LONG HORIZONTAL THROW LINEAR DIFFUSER WITH TWO (2) SLOT. EACH SLOT IS 2.5" WIDE. PROVIDE WITH FACTORY FURNISHED PLENUM WITH 12" INLET.
7. PROVIDE LAY–IN FRAME FOR ACOUSTIC CEILING TILE APPLICATION; PROVIDE SURFACE MOUNTED FRAME FOR GYPSUM OR PLASTER CEILING APPLICATION.
8. PROVIDE WITH 35° DEFLECTION AND 0.75" GRILLE SPACING.
9. PROVIDE WITH FRAMING FOR A 2" FILTER.
10. PROVIDE 14 GAUGE HEAVY DUTY GRILL WITH 38° DEFLECTION AND 0.5" GRILLE SPACING.
11. PROVIDE WITH 1/4 TURN HINGED ACCESS
12. 20x20 NECK SIZE INDICATED ON PLAN SHALL BE PROVIDED WITH EXTENDED FACE PANEL AS REQUIRED TO FIT IN 2FT X 2FT CEILING GRID. CUTTING OR MODIFYING CEILING TILE OR CEILING GRID WILL NOT BE ALLOWED.
13. 22x22 NECK SIZE INDICATED ON PLAN SHALL FIT IN 2FT X 2FT CEILING GRID. CUTTING OR MODIFYING CEILING TILE OR CEILING GRID WILL NOT BE ALLOWED.

drawing title: MECHANCAL SCHEDULES

REVISIONS

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	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by: CONSULTING ENGINEERING SERVICES, INC.
811 MIDDLE STREET
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project:
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.: xxxxxxxxxx.dwg
project no.: BI-RD-299

VARIABLE AIR VOLUME BOX SCHEDULE LIST

PLAN SYMBOL	TAG	MANUFACTURER/ MODEL NUMBER	AIR FLOW (CFM)	INLET DIAMETER (INCHES)	MAXIMUM INLET PRESSURE (IN WG)	ELEC. DATA		REMARKS
						VOLTS	PHASE	
1	SEE PLANS	TRANE VCF04	225 OA SUPPLY	4	-	24	1	1,2,3
2	SEE PLANS	TRANE VCF05	350 OA SUPPLY	5	-	24	1	1,2,3
3	SEE PLANS	TRANE VCF06	500 OA SUPPLY	6	-	24	1	1,2,3
4	SEE PLANS	TRANE VCF08	900 OA SUPPLY	8	-	24	1	1,2,3
5	SEE PLANS	TRANE VCF10	1100 OA SUPPLY	10	-	24	1	1,2,3
6	SEE PLANS	TRANE VCF04	225 EXHAUST AIR	4	-	24	1	1,2,3
7	SEE PLANS	TRANE VCF05	350 EXHAUST AIR	5	-	24	1	
8	SEE PLANS	TRANE VCF06	500 EXHAUST AIR	6	-	24	1	
9	SEE PLANS	TRANE VCF08	900 EXHAUST AIR	8	-	24	1	

REMARKS:

1. ALL VAV BOXES SHALL BE ARI RATED.
2. VAV MINIMUM FLOW SHALL BE 30% OF CONNECTED CAPACITY, UNLESS OTHERWISE NOTED.
3. TEMPERATURE CONTROLS MANUFACTURER SHALL PROVIDE ACTUATORS FOR VAV BOXES TO BE FIELD INSTALLED.

INDICATES VAV SYMBOL → 2

FLEXIBLE DUCT SCHEDULE

DIFFUSER SYMBOL	NECK SIZE	FLEX SIZE
A	6x6	8"
A	9x9	10"
A	12x12	12"
A	15x15	14"
A	18x18	16"
A	21x21	18"

REMARKS:

1. SEE DETAIL M3.01 DETAIL 8.

HVAC DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	REMOVE EXISTING DUCTWORK/EQUIPMENT
	REMOVE EXISTING PIPING/EQUIPMENT
E	EXISTING TO REMAIN
RL	RELOCATE EXISTING
NL	NEW LOCATION OF EXISTING RELOCATED

HYDRONIC PIPING DIAGRAM GENERAL NOTES

- AIR VENTS, ALL: LOCATE AT THE HIGHEST POINT OF PIPING. LOCATION INDICATED ON PIPING DIAGRAM MAY NOT NECESSARILY BE THE HIGHEST POINT OF ACTUAL PIPING.
- DRAIN VALVES: LOCATE AT THE LOWEST POINT OF PIPING. LOCATION INDICATED ON PIPING DIAGRAM MAY NOT NECESSARILY BE THE LOWEST POINT OF ACTUAL PIPING.
- PRESSURE GAUGES: PROVIDE WITH GAUGE COCKS (NEEDLE VALVES), PRESSURE SNUBBERS, AND SIPHONS
- REDUCERS: ALL REDUCERS REQUIRED ARE NOT SHOWN ON THE PIPING DIAGRAMS. PROVIDE REDUCERS WHERE INDICATED AND WHERE REQUIRED.
- THERMOMETERS: PROVIDE WITH THERMOWELLS

FINNED TUBE RADIATION SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	CAPACITY BTUH/LF	EWT (°F)	LWT (°F)	FLOW GPM	ENCLOSURE HEIGHT	MOUNTING HEIGHT TO BOTTOM	NO. OF TIERS	PIPE SIZE	FINNED TUBE SIZES	REMARKS
FTR-1	RITTLING TYPE FS3	291	540	140	AS NOTED	8"	4"	1	3/4"	3/4"C- 3 1/4 x 3 1/4 x 32	1-3

REMARKS:

1. ENCLOSURE COVER SHALL COMPLETELY ENCLOSE ALL PIPING, FITTINGS AND VALVES.
2. PROVIDE ALL REQUIRED MOUNTING HARDWARE AND ENCLOSURE ACCESS PANELS.
3. REFER TO PIPING DETAILS
4. UNIT SHALL BE FLOOR MOUNTED PEDISTAL TYPE WITH TOP LOUVERED OUTLET.

INDICATES TYPE OF FIN TUBE — FTR-1 — 6'-0" — INDICATES LENGTH OF ACTIVE FINNED ELEMENT
GPM — INDICATES HEATING H.W. FLOW (GAL. PER MINUTE)

GENERAL NOTES

1. NOTES APPLY TO ALL DRAWINGS.
2. PROVIDE UNISTRUT FRAMES TO SUPPORT ALL VFD'S.

PIPING LEGEND

SYMBOL	DESCRIPTION
	SUPPLY
	RETURN
	GATE VALVE
	BALL VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	UNION
	STRAINER WITH VALVED BLOWDOWN
PA	PIPE ANCHOR
M	MANUAL BALANCE VALVE
A	AUTOMATIC AUTO FLOW BALANCE VALVE
	PIPE DROP
	PIPE RISE

HVAC DUCTWORK LEGEND

SYMBOL	DESCRIPTION
	FLEXIBLE DUCTWORK
	EXISTING DUCTWORK (DOUBLE LINE)
	EXISTING DUCTWORK (SINGLE LINE)
	NEW DUCTWORK (DOUBLE LINE)
	NEW DUCTWORK (SINGLE LINE)
	EXHAUST DUCT DROP (DOUBLE LINE)
	EXHAUST DUCT DROP (SINGLE LINE)
	EXHAUST DUCT RISE (DOUBLE LINE)
	EXHAUST DUCT RISE (SINGLE LINE)
	RETURN DUCT DROP (DOUBLE LINE)
	RETURN DUCT DROP (SINGLE LINE)
	RETURN DUCT RISE (DOUBLE LINE)
	RETURN DUCT RISE (SINGLE LINE)
	SUPPLY DUCT DROP (DOUBLE LINE)
	SUPPLY DUCT DROP (SINGLE LINE)
	SUPPLY DUCT RISE (DOUBLE LINE)
	SUPPLY DUCT RISE (SINGLE LINE)
	VOLUME DAMPER
FD	FIRE DAMPER
MD	MOTORIZED DAMPER
SD	SMOKE DAMPER
F/SD	COMBINATION FIRE AND SMOKE DAMPER
S D	DUCT MOUNTED SMOKE DETECTOR
	RETURN/EXHAUST/OUTSIDE AIR ARROW
	SUPPLY ARROW
UD	UNDERCUT DOOR
	CONNECTION TO EXISTING
	SUPPLY DIFFUSER
	RETURN/EXHAUST REGISTER

MECHANICAL ABBREVIATION LIST

ABBREVIATION	DESCRIPTION
AC-#	AIR CONDITIONING UNIT
AD	ACCESS DOOR
ADP	APPARATUS DEW POINT
AFF	ABOVE FINISHED FLOOR
AHU-#	AIR HANDLING UNIT
AMB	AMBIENT
APPROX	APPROXIMATE
ATM	ATMOSPHERE
AVG	AVERAGE
BHP	BREAK HORSE POWER
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CC-#	COMPRESSOR/CONDENSER
CD	CONDENSATE DRAIN
CPD	CONDENSATE PUMP DISCHARGE
CFM	CUBIC FEET PER MINUTE
CU FT	CUBIC FOOT
CU-#	CONDENSING UNIT
CUH-#	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CW	COLD WATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
dB	DECIBELS
DB	DRY BULB
DX	DIRECT EXPANSION
E	EXISTING TO REMAIN
EAT	ENTERING AIR TEMPERATURE
EF-#	EXHAUST FAN
ENT	ENTERING
ER- #	ENERGY RECOVERY
ESP	EXTERNAL STATIC PRESSURE
ET-#	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWT	ENTERING WATER TEMPERATURE
EXG	EXISTING
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERNAL
oF	DEGREES FAHRENHEIT
F-#	FILTER
FCU-#	FAN COIL UNIT
FD	FIRE DAMPER
FLD	FLOOR DRAIN
FLEX	FLEXIBLE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FPM	FEET PER MINUTE
FT	FEET
FTR	FIN TUBE RADIATION
GA	GAUGE
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GWR	GROUND WATER RETURN
GWS	GROUND WATER SUPPLY
H-#	HUMIDIFIER
HC-#	HEATING COIL
HD	HEAD
HF	HEPA FILTER
HG	MERCURY
HP	HORSE POWER
HPR	HIGH PRESSURE STEAM CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HR	HOUR
HTG	HEATING
HTR	HEATER
HV-#	HEATING & VENTILATION UNIT
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HWR	HEATING RETURN
HWS	HEATING SUPPLY
HX-#	HEAT EXCHANGER
HZ	FREQUENCY
IN.	INCH
IN.W.G	INCHES WATER GAUGE
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LBS/HOUR	POUNDS PER HOUR
LD	LEAK DETECTOR
LF	LINEAR FEET
LPR	LOW PRESSURE STEAM CONDENSATE RETURN
LPS	LOW PRESSURE STEAM (15 PSIG & BELOW) SUPPLY
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MIN	MINIMUM
MPR	MEDIUM PRESSURE STEAM CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM SUPPLY
MWT	MEAN WATER TEMPERATURE
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N.T.S.	NOT TO SCALE
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NL	NEW LOCATION
NO.	NUMBER
NOM	NOMINAL
OA	OUTSIDE AIR
OAH	OUTSIDE AIR HOOD
P-#	PUMP
PD	PRESSURE DROP (FEET OF WATER OR INCHES OF WATER)
PGW	PROPYLENE GLYCOL-WATER SOLUTION
PPG	PROPYLENE GLYCOL
PH	PHASE
PRESS	PRESSURE
PSIG	POUNDS PER SQUARE INCH GAUGE
PWR	POOL WATER RETURN
PWS	POOL WATER SUPPLY
RA	RETURN AIR
RF-#	RETURN AIR FAN
RH	RELATIVE HUMIDITY
RL	RELOCATE EXISTING
RLA	RELIEF AIR
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SA-#	SOUND ATTENUATOR
SD	SMOKE DAMPER
SENS.	SENSIBLE
SF-#	SUPPLY AIR FAN
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPS	STATIC PRESSURE SENSOR
SQ.FT.	SQUARE FEET
SRDS	SEISMIC ROOF DUCT SUPPORT
SS	STAINLESS STEEL
STD	STANDARD
SUCT	SUCTION
TD	TRANSFER DUCT
TEMP	TEMPERATURE
T-STAT	THERMOSTAT
TYP	TYPICAL
UH-#	UNIT HEATER
UV	UNIT VENTILATOR
VAR	VARIABLE
VAV-#	VARIABLE AIR VOLUME BOX
VD	VOLUME DAMPER
VEL	VELOCITY
VOL	VOLUME
W	WATT
WB	WET BULB
YR	YEAR

HYDRONIC PIPING DIAGRAM LEGEND

SYMBOL	DESCRIPTION
P	CONTROL SYSTEM PRESSURE SENSOR
T	CONTROL SYSTEM TEMPERATURE SENSOR
T M	TWO WAY CONTROL VALVE, MODULATING
T	TWO WAY CONTROL VALVE, TWO POSITION
MM	THREE WAY CONTROL VALVE, MODULATING, MIXING
TM	THREE WAY CONTROL VALVE, TWO POSITION, MIXING
	FOUR WAY CONTROL VALVE, MODULATING
SD	SUCTION DIFFUSER
	WYE STRAINER
	WYE STRAINER WITH 3/4" THREADED BLOWDOWN BALL VALVE
	UNION
A	AUTOMATIC BALANCING VALVE
	TEE
	ELBOW
	NON-SLAM CHECK VALVE, GLOBE STYLE
	SWING CHECK VALVE
	BALL VALVE OR BUTTERFLY VALVE
	GAUGE COCK (NEEDLE VALVE)
	FLEXIBLE CONNECTOR
	REDUCER
D	DOUBLE ELBOW
	TEMPERATURE & PRESSURE TEST PORT
	LIQUID FILLED THERMOMETER
T	DIAL THERMOMETER
P	DIAL PRESSURE GAUGE
	ASME RELIEF VALVE
C	COIN VENT WITH INTERNAL BALL SHUT-OFF TACO MODEL 417
A	AUTOMATIC AIR VENT, TACO MODEL HY-VENT WITH TACO MODEL 414 WASTE CONNECTOR
A	AUTOMATIC AIR VENT TACO MODEL 409
	DRAIN VALVE - BALL VALVE WITH 3/4" THREADED HOSE CONNECTION
	MANUAL BALANCING VALVE (CIRCUIT SETTER)
HWS	HOT WATER SUPPLY PIPING (SECONDARY PIPING)
HWR	HOT WATER RETURN PIPING (SECONDARY PIPING)
→	FLOW DIRECTION

drawing title
MECHANICAL SCHEDULES

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811 MIDDLE STREET
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WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no. xxxxxxxxxx.dwg
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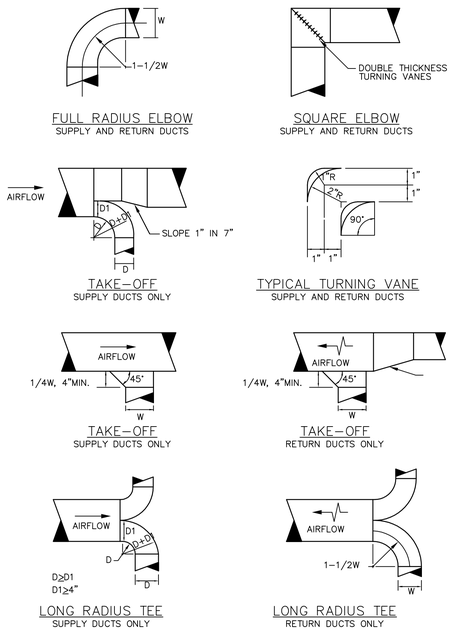
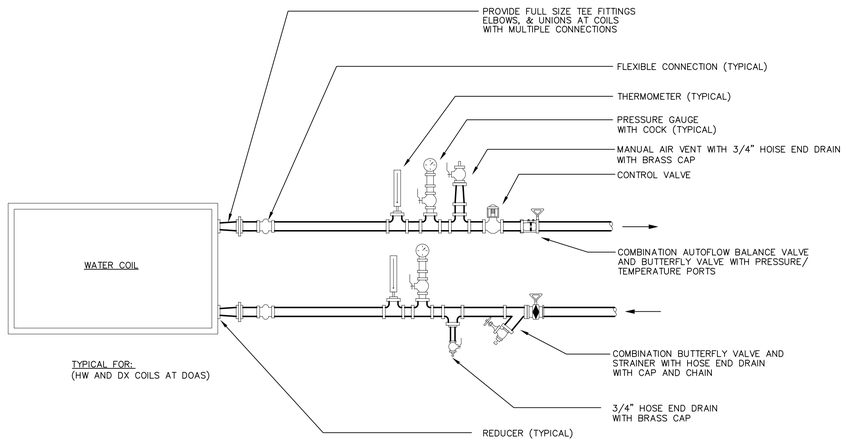
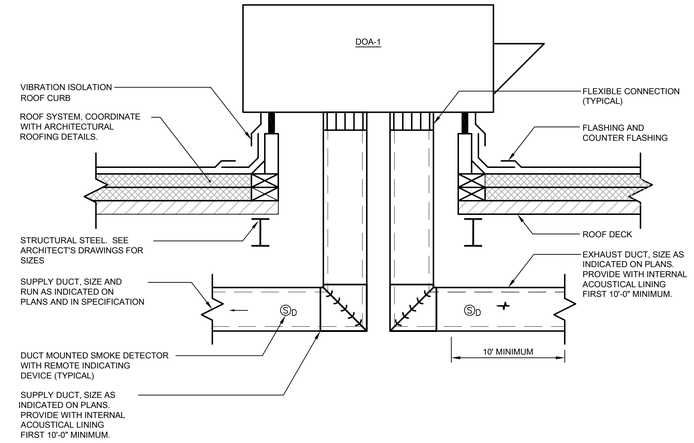


1 TYPICAL DUCT DETAILS
N.T.S.



2 AHU/DOAS WATER COIL PIPING DIAGRAM
N.T.S.



3 DEDICATED OUTDOOR AIR UNIT DETAIL
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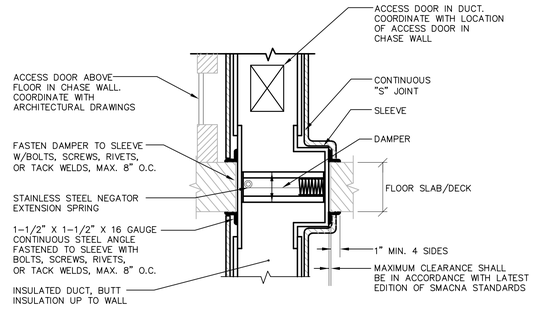
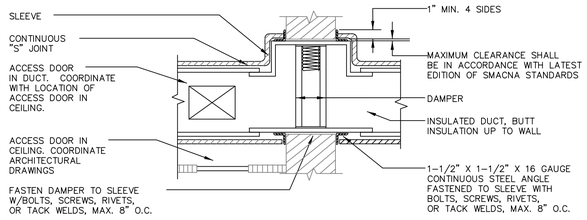


NOTES:

1. DAMPER STYLE & SLEEVE CONFIGURATION IS GOVERNED BY MAINTAINING A MAX. .06 STATIC PRESSURE @ 2500 F.P.M. FACE VELOCITY.
2. DEPTH OF DAMPER TO BE COORDINATED WITH WALL THICKNESS.
3. INSTALLATIONS & MATERIALS PER U.L. 555.
4. DETAIL FOR DAMPER IN FIRE RATED WALL SIMILAR EXCEPT ACCESS TO BE THROUGH CEILING.

4 VERTICAL FIRE DAMPER DETAIL
N.T.S.



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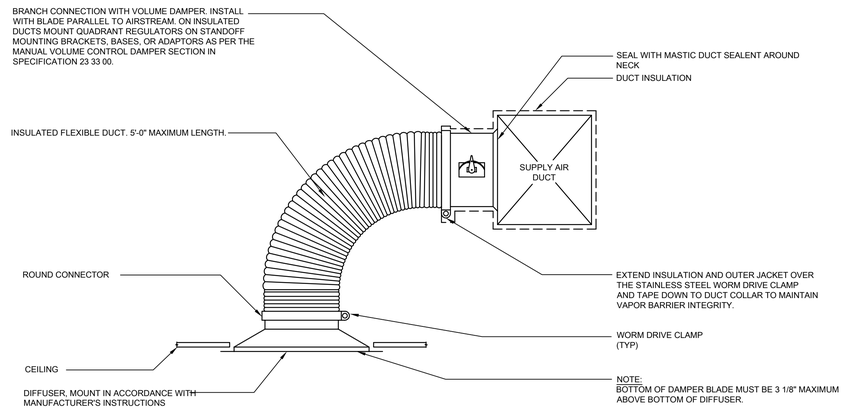
2. DEPTH OF DAMPER TO BE COORDINATED WITH WALL THICKNESS.
3. INSTALLATIONS & MATERIALS PER U.L. 555.

5 HORIZONTAL FIRE DAMPER DETAIL
N.T.S.



NOTES:

1. SUPPORT FLEXIBLE DUCT FROM STRUCTURE AS SPECIFIED. DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURES, CEILING SUPPORT TEES OR TILE.
2. PROVIDE REGULATORS WHERE VOLUME DAMPER IS ACCESSIBLE.
3. IN UNCONDITIONED CEILING PLENUMS, INSULATE BACK OF DIFFUSER WITH 1" DUCT WRAP AND SEAL WITH VAPOR BARRIER TAPE.

8 CEILING DIFFUSER WITH FLEXIBLE DUCT DETAIL
N.T.S.

drawing title
MECHANCAL DETAILS

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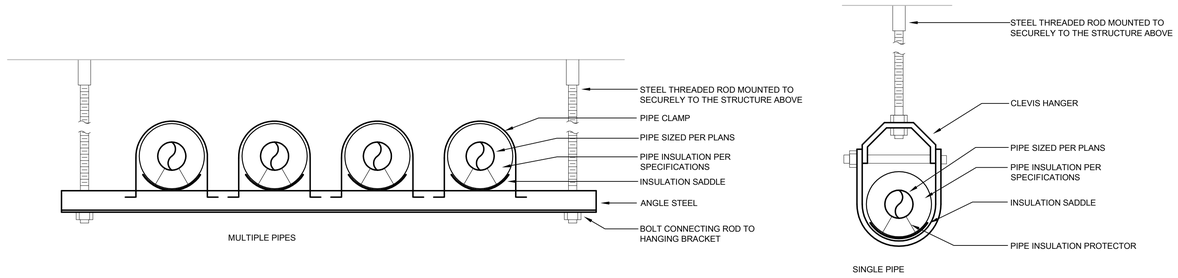
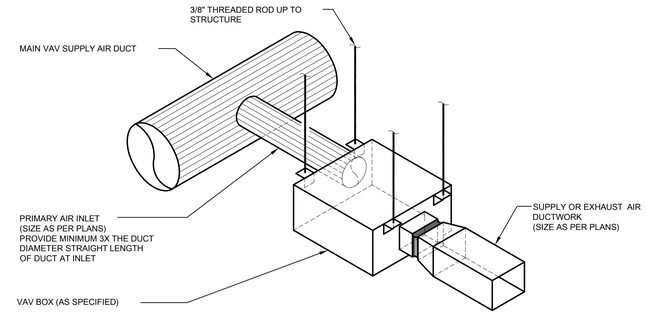
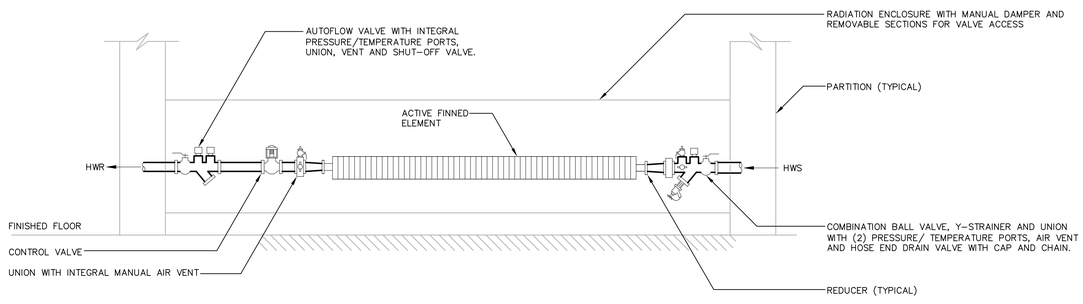


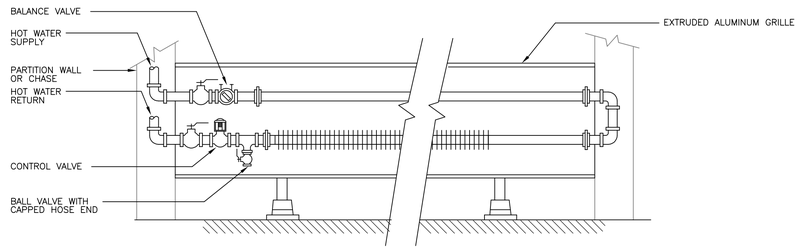
1 TYPICAL PIPE SUPPORT DETAILS
N.T.S.



2 VAV INSTALLATION DETAIL
N.T.S.



3 HOT WATER FINNED TUBE RADIATION PIPING DIAGRAM
N.T.S.



4 HOT WATER FIN TUBE RADIATION PIPING DIAGRAM
N.T.S.

drawing title
MECHANCAL DETAILS

REVISIONS

mark	date	description
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	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	
	1/21/19	

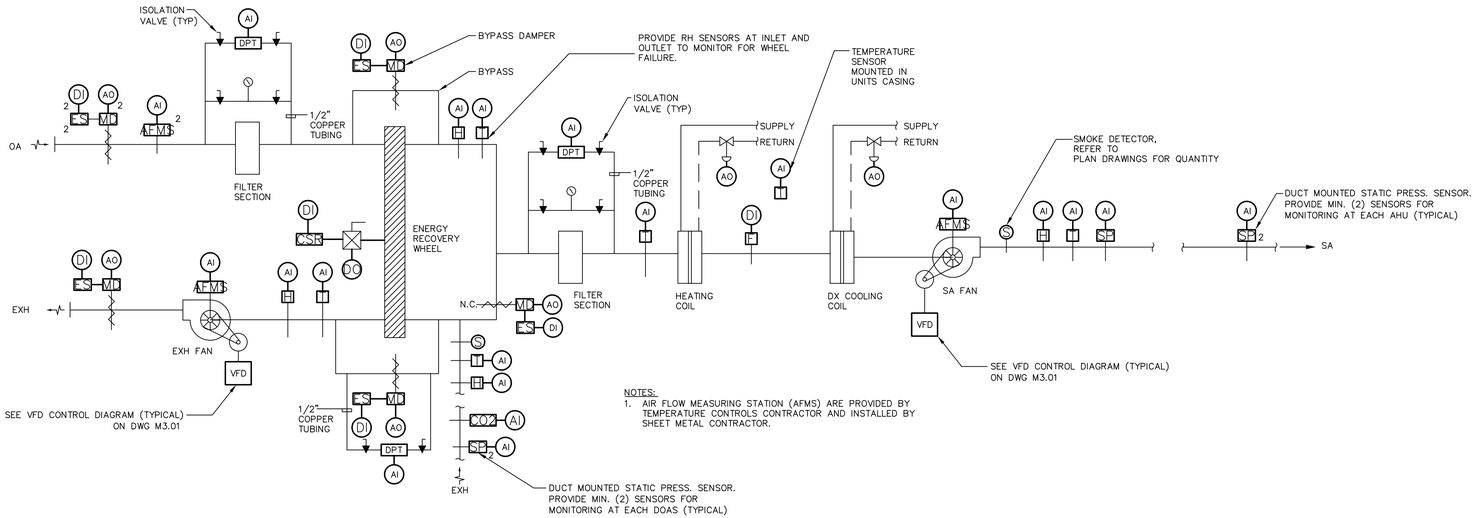
STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
CONSULTING ENGINEERING SERVICES, INC.
811 MIDDLE STREET
MIDDLETOWN, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

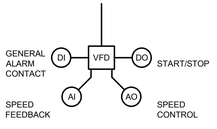
CAD no. xxxxxxxxxx.dwg
project no. BI-RD-299

date 07/25/18
scale AS NOTED
drawn by AJS
approved by PMA
drawing no. **M3.02**



NOTES:
1. AIR FLOW MEASURING STATION (AFMS) ARE PROVIDED BY TEMPERATURE CONTROLS CONTRACTOR AND INSTALLED BY SHEET METAL CONTRACTOR.

1 DOAS CONTROL DIAGRAM
SCALE: NTS



2 VFD CONTROL DIAGRAM
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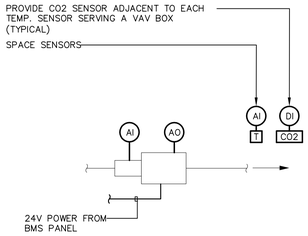
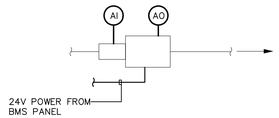


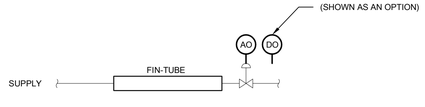
TYPICAL SUPPLY AIR VAV WITHOUT HW COIL

3 VAV CONTROL DIAGRAM
N.T.S.



TYPICAL VAV SERVING EXHAUST AND RETURN AIR

4 VAV CONTROL DIAGRAM
N.T.S.



5 RADIATION CONTROL DIAGRAM
N.T.S.

TEMPERATURE CONTROL SYMBOLS

SYMBOLS	DESCRIPTION
?2	ANALOG INPUT (SUBSCRIPT INDICATES QUANTITY – TYPICAL)
AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
A	AQUASTAT
AFMS	AIR FLOW MONITORING STATION
AFS	AIR FLOW SWITCH
AV	AUDIO / VISUAL ALARM
BMS	BUILDING MANAGEMENT SYSTEM
CO	CARBON MONOXIDE SENSOR
CO2 C	CARBON DIOXIDE SENSOR
CSR	CURRENT SENSING RELAY
DP	DIFFERENTIAL PRESSURE GAUGE WITH CONTACT SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
E	ENTHALPY SENSOR
EC	EQUIPMENT CONTACT
ES	END SWITCH
F	FREEZESTAT
FM	FLOW METER
FS	FLOW SWITCH
H	HUMIDITY SENSOR
LD	LEAK DETECTOR
MD	MOTORIZED DAMPER
ME	METHANE DETECTOR
OCC	OCCUPANCY SENSOR
OV	OVERIDE PUSHBUTTON SWITCH
PT	PRESSURE TRANSMITTER
S	TOGGLE SWITCH
SP	SWITCH WITH PILOT LIGHT
ST	SWITCH: 0–60 MINUTE TWIST TIMER
SD	SMOKE DAMPER
SP	STATIC PRESSURE SENSOR
S	SMOKE DETECTOR
T	THERMOSTAT
TL	LOCAL THERMOSTAT (24 VOLT)
T	TEMPERATURE SENSOR
TA	AVERAGING TEMPERATURE SENSOR
TOCC	TEMPERATURE SENSOR WITH OCCUPANCY SENSOR
VFD	VARIABLE FREQUENCY DRIVE
	STARTER/DISCONNECT
	PETCOCK ISOLATION VALVE
	MAGNAHELIC PRESSURE GAUGE WITH ISOLATION VALVE
	2 WAY VALVE
	3 WAY VALVE

MISCELLANEOUS BMS CONTROL NOTES

1. REMOVE ALL CONTROL COMPONENTS AND WIRING ASSOCIATED WITH EXHAUST FANS, ROOF TOP UNITS, AHU'S, HVAC SYSTEMS, BOILERS, PUMPS, ETC. BEING REMOVED. REFER TO DEMOLITION DRAWINGS.
2. CONTROL OF ALL TEMPERATURE CONTROL DEVICES SHALL BE COMMISSIONED PER SPECIFICATIONS.
3. REFER TO FLOOR PLANS AND DETAILS FOR MISCELLANEOUS BMS SCOPE OF WORK.
4. 120V, 1 PHASE POWER TO ALL NEW & EXISTING CONTROLS SHALL BE FED FROM NEW DEDICATED CIRCUITS FROM NEW ELECTRICAL PANELS. FOR LOCATION OF 120V PANELS REFER TO THE FLOOR PLANS AND ELECTRICAL DRAWINGS.
5. FOR QUANTITY OF SPACE TEMPERATURE SENSORS, DIFFERENTIAL PRESSURE SENSORS, SWITCHES AND OTHER DEVICES, REFER TO FLOOR PLAN DRAWINGS.

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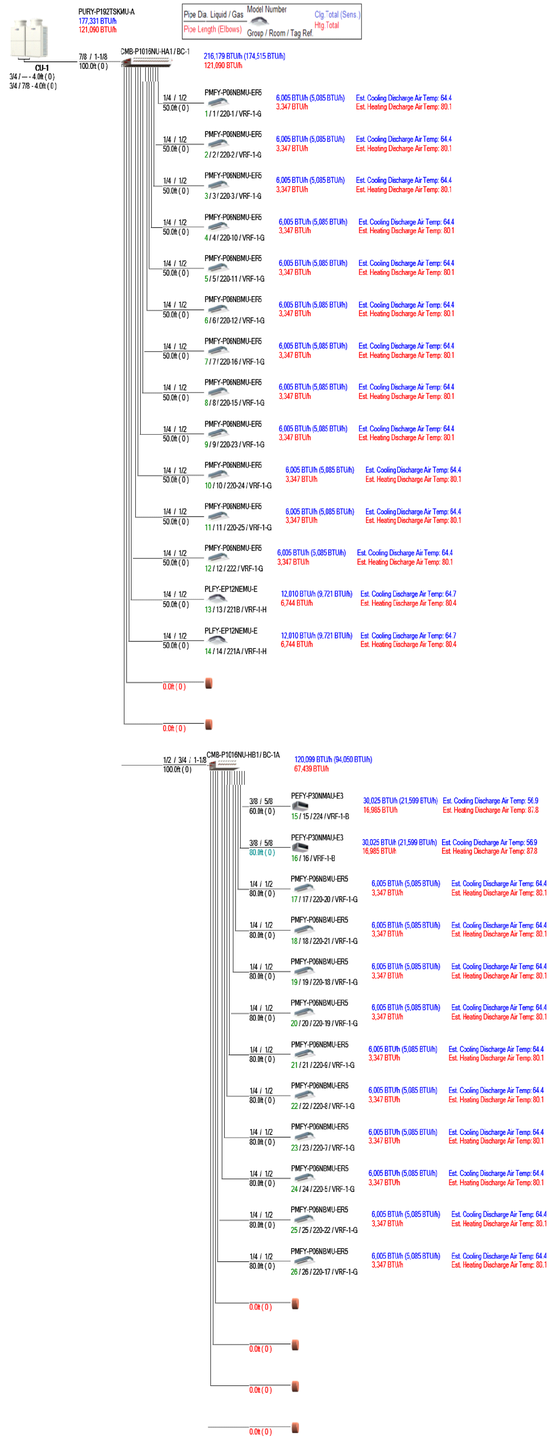
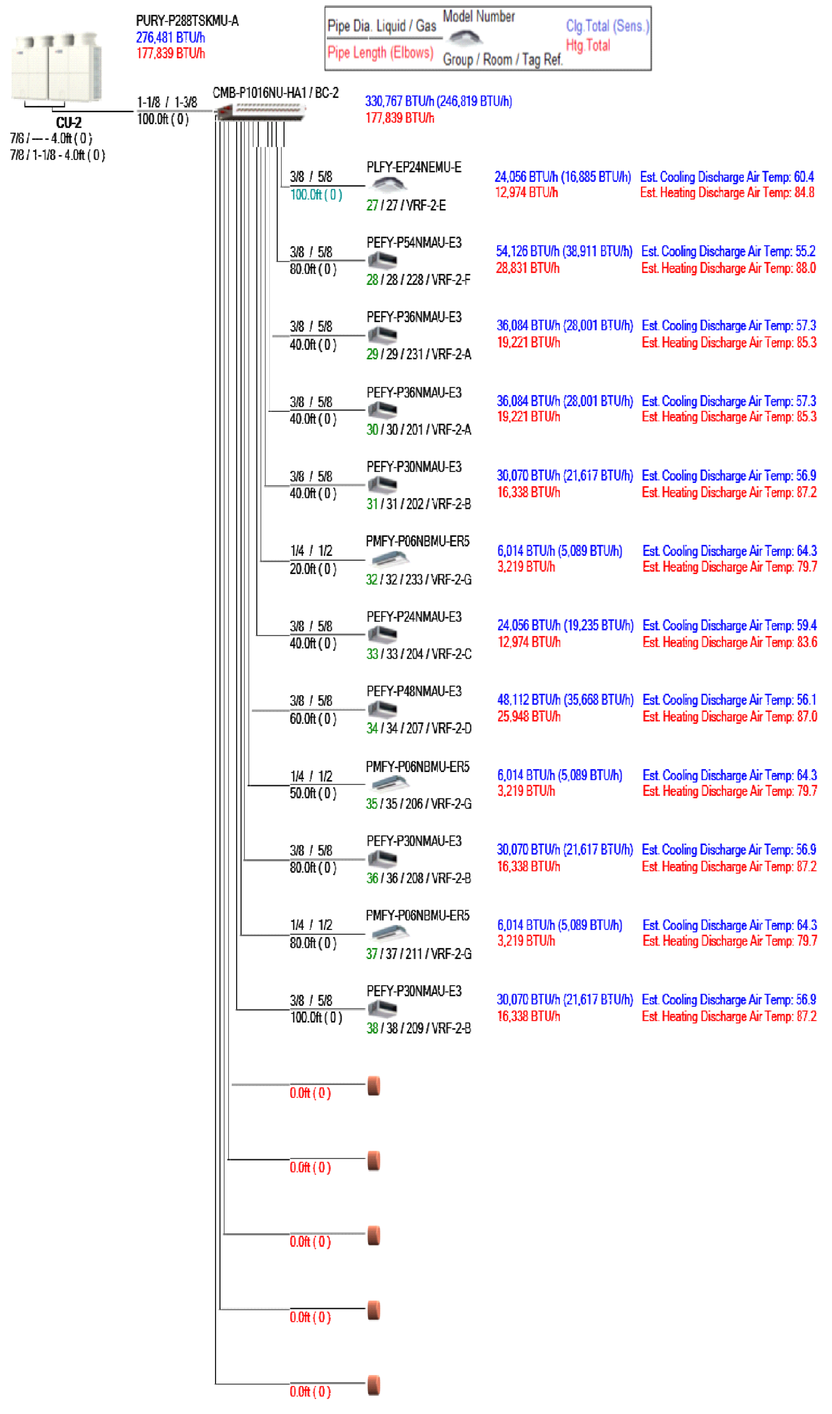


1 CU-1 FLOW DIAGRAM

SCALE: NTS



2 CU-2 FLOW DIAGRAM

SCALE: NTS

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1 **CU-3 FLOW DIAGRAM**
SCALE: NTS

2 **CU-4 FLOW DIAGRAM**
SCALE: NTS

drawing title
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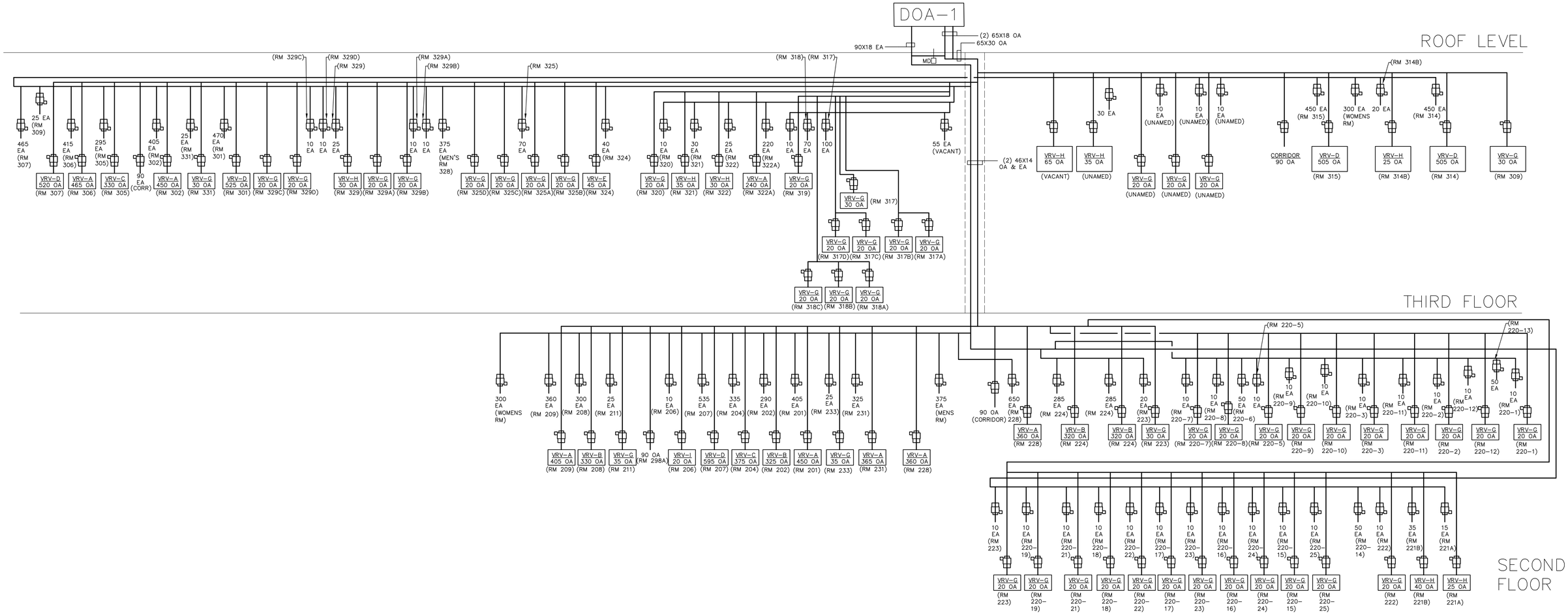

1 DEDICATED OUTDOOR AIR/EXHASUT RISER DIAGRAM-(DOA-1)

SCALE: NTS

drawing title
MECHANCAL DETAILS

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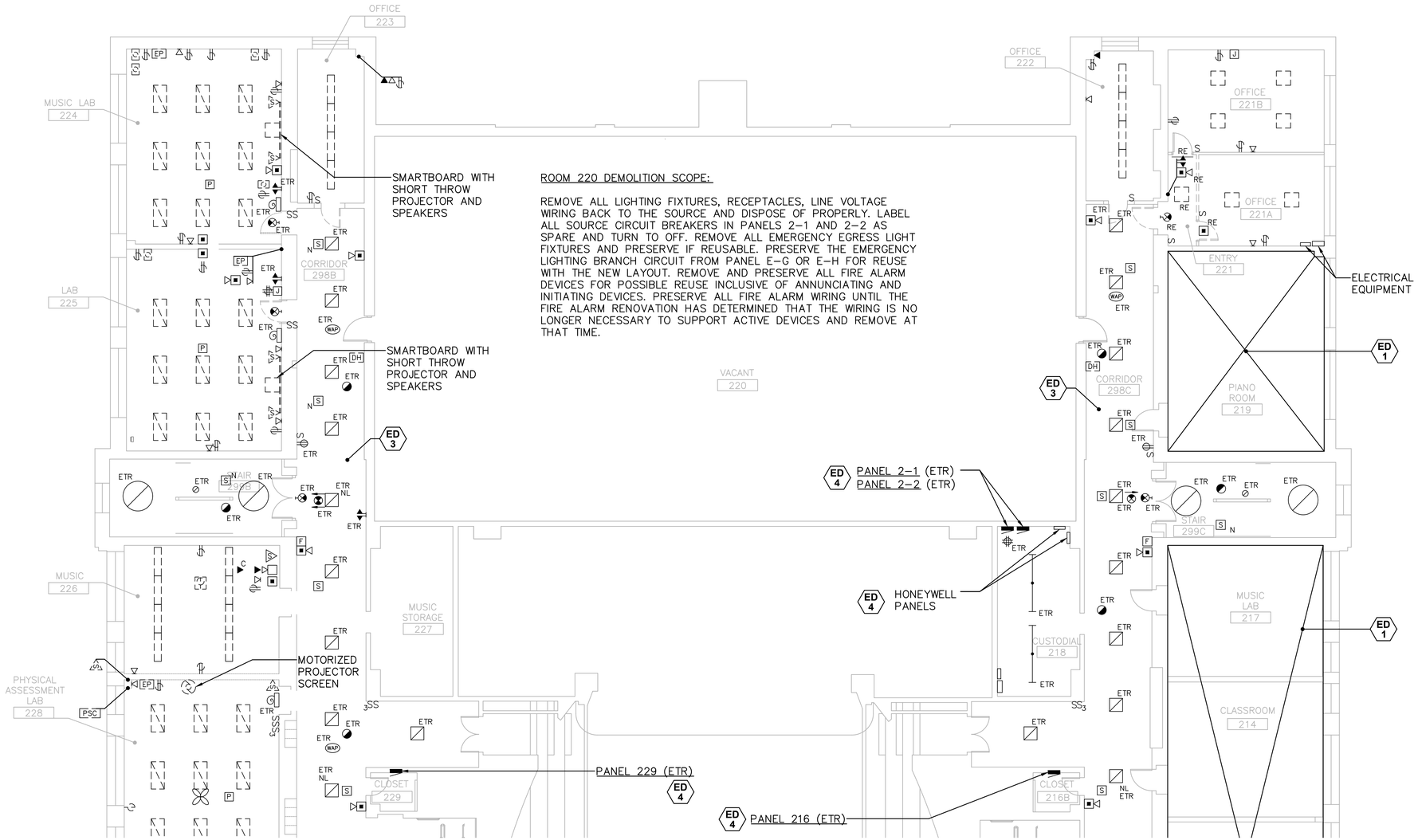

1 ELECTRICAL DEMOLITION SECOND FLOOR PLAN-NORTH
SCALE:1/8"=1'–0"

ELECTRICAL DEMOLITION KEY NOTES

ED 1	NO ELECTRICAL WORK TO BE PERFORMED IN THIS AREA UNDER THIS CONTRACT.
ED 2	ELECTRICAL DEMOLITION TO OCCUR IN THIS AREA. REMOVE EQUIPMENT AS REQUIRED AND MAKE SAFE.
ED 3	ELECTRICAL WORK TO BE PERFORMED IN THIS AREA UNDER THIS CONTRACT. PRESERVE EXISTING ELECTRICAL FIXTURES AND EQUIPMENT IN THIS AREA UNLESS NOTED OTHERWISE. REMOVE, STORE, AND REINSTALL AS NECESSARY DURING CONSTRUCTION. REFER TO MECHANICAL DESIGN DRAWINGS AND ARCHITECTURAL DRAWINGS TO IDENTIFY SCOPE OF WORK INVOLVED WITH CEILING GRID REMOVAL. REMOVE LIGHT FIXTURES AT DESIGNATED AREAS OF GRID REMOVAL TO FACILITATE INSTALLATION OF NEW HVAC SYSTEMS. REINSTALL LIGHTING FIXTURES AFTER CEILING GRID HAS BEEN REINSTALLED.
ED 4	EXISTING ELECTRICAL PANELS TO REMAIN. ANY REMOVED BRANCH CIRCUITS SHALL BE RELABELED AS SPARE IN THE DIRECTORY AND THE CIRCUIT BREAKER PLACED IN THE OFF POSITION.

ELECTRICAL DEMOLITION NOTES

1. ALL FLUORESCENT LIGHTING FIXTURES SHALL BE REMOVED AND PROPERLY DISPOSED OF. ALL LAMPS SHALL BE RECYCLED REGARDLESS IF THEY ARE TCLP COMPLIANT.
2. ALL HAZARDOUS MATERIALS SHALL BE DISPOSED OF IN CONFORMANCE WITH UNIVERSAL WASTE RULES.
3. ALL SURFACE RACEWAY THAT IS REMOVED SHALL BE PRESERVED FOR REUSE. THE EC SHALL CONFIRM WITH THE OWNER REGARDING STORAGE OR DISPOSAL OF ANY UNUSED RACEWAY AT THE COMPLETION OF THE PROJECT.
4. PROVIDE 4" DEEP EXTENSION RINGS FOR ALL BACKBOXES REQUIRED AS EXISTING TO REMAIN WITHIN AREAS THAT ARE BEING FURRED OUT. CONFIRM ALL LOCATIONS AND EXACT DEPTHS WITH ARCHITECTURAL DRAWINGS.
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7. WAP DEVICES IN CORRIDORS ARE EXISTING TO REMAIN. REMOVE, PRESERVE AND REINSTALL AFTER NEW CEILING IS IN PLACE.
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9. WHERE EXISTING CLASSROOM OR OFFICE LIGHTING IS REMOVED, ALL POWER WIRING SHALL BE DISCONNECTED AND REMOVED. THE EXISTING BACKBOXES AND CONDUITS FOR LIGHTING SWITCHES SHALL BE PRESERVED FOR REUSE. SEE DEMOLITION SCOPE NOTE IN ROOM 220 FOR LIGHTING DEMOLITION PERTAINING TO THIS LOCATION.
10. EXISTING POWER CIRCUITS FOR WINDOW AC UNITS AND CONVENIENCE RECEPTACLES SHALL BE REMOVED BACK TO THE SOURCE UNLESS NOTED OTHERWISE.

drawing title
SECOND FLOOR -
NORTH DEMO PARTIAL PLAN

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DEPARTMENT OF ADMINISTRATIVE SERVICES

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811 MIDDLE STREET
MIDDLETOWN, CT

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scale AS NOTED
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drawing no. **ED1.01**

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

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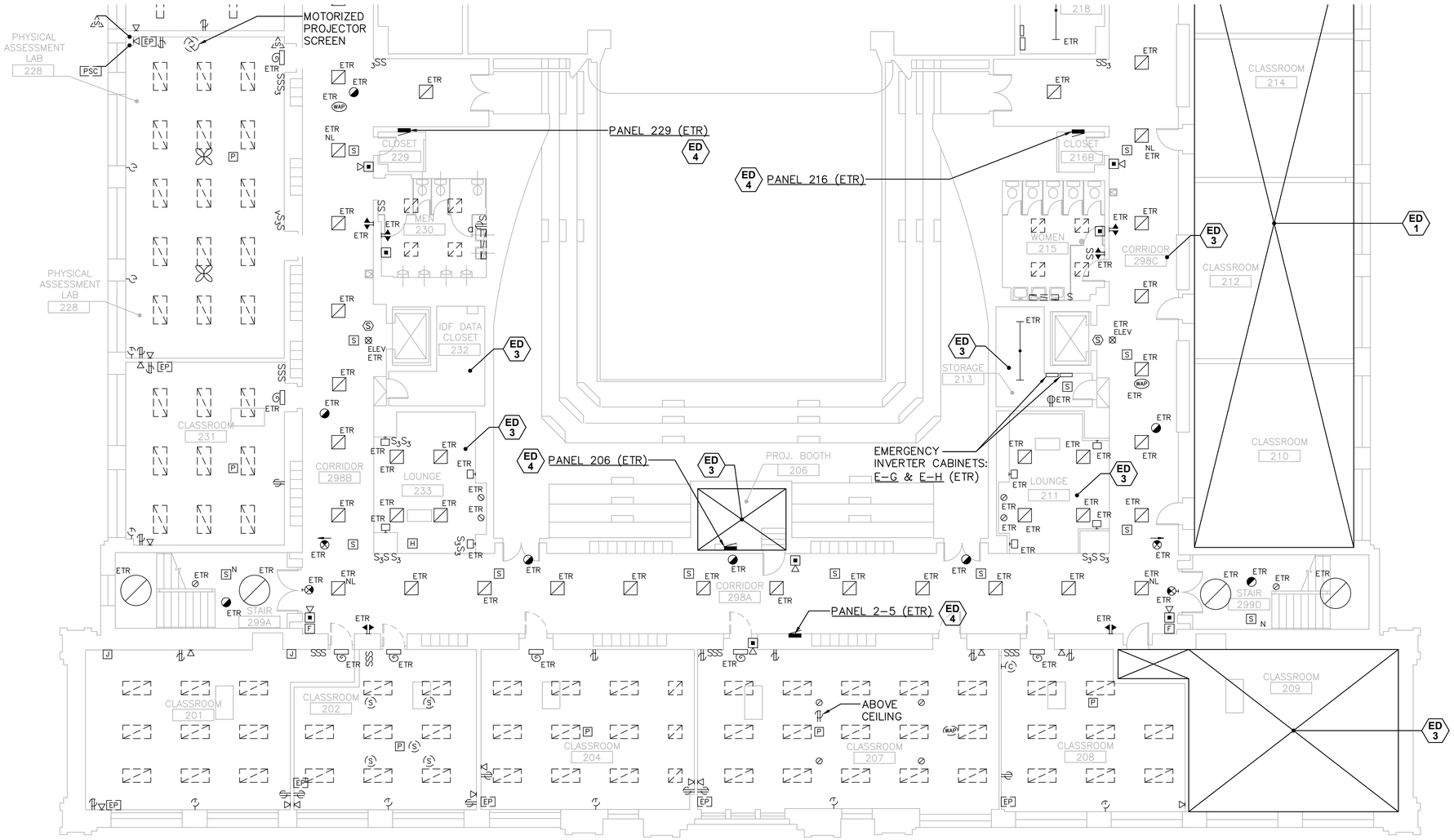

1 ELECTRICAL DEMOLITION SECOND FLOOR PLAN-SOUTH

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

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ED 4	EXISTING ELECTRICAL PANELS TO REMAIN. ANY REMOVED BRANCH CIRCUITS SHALL BE RELABELED AS SPARE IN THE DIRECTORY AND THE CIRCUIT BREAKER PLACED IN THE OFF POSITION.

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1. ALL FLUORESCENT LIGHTING FIXTURES SHALL BE REMOVED AND PROPERLY DISPOSED OF. ALL LAMPS SHALL BE RECYCLED REGARDLESS IF THEY ARE TCLP COMPLIANT.
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3. ALL SURFACE RACEWAY THAT IS REMOVED SHALL BE PRESERVED FOR REUSE. THE EC SHALL CONFIRM WITH THE OWNER REGARDING STORAGE OR DISPOSAL OF ANY UNUSED RACEWAY AT THE COMPLETION OF THE PROJECT.
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10. EXISTING POWER CIRCUITS FOR WINDOW AC UNITS AND CONVENIENCE RECEPTACLES SHALL BE REMOVED BACK TO THE SOURCE UNLESS NOTED OTHERWISE.

drawing title
SECOND FLOOR -
SOUTH DEMO PARTIAL PLAN

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WHITE HALL
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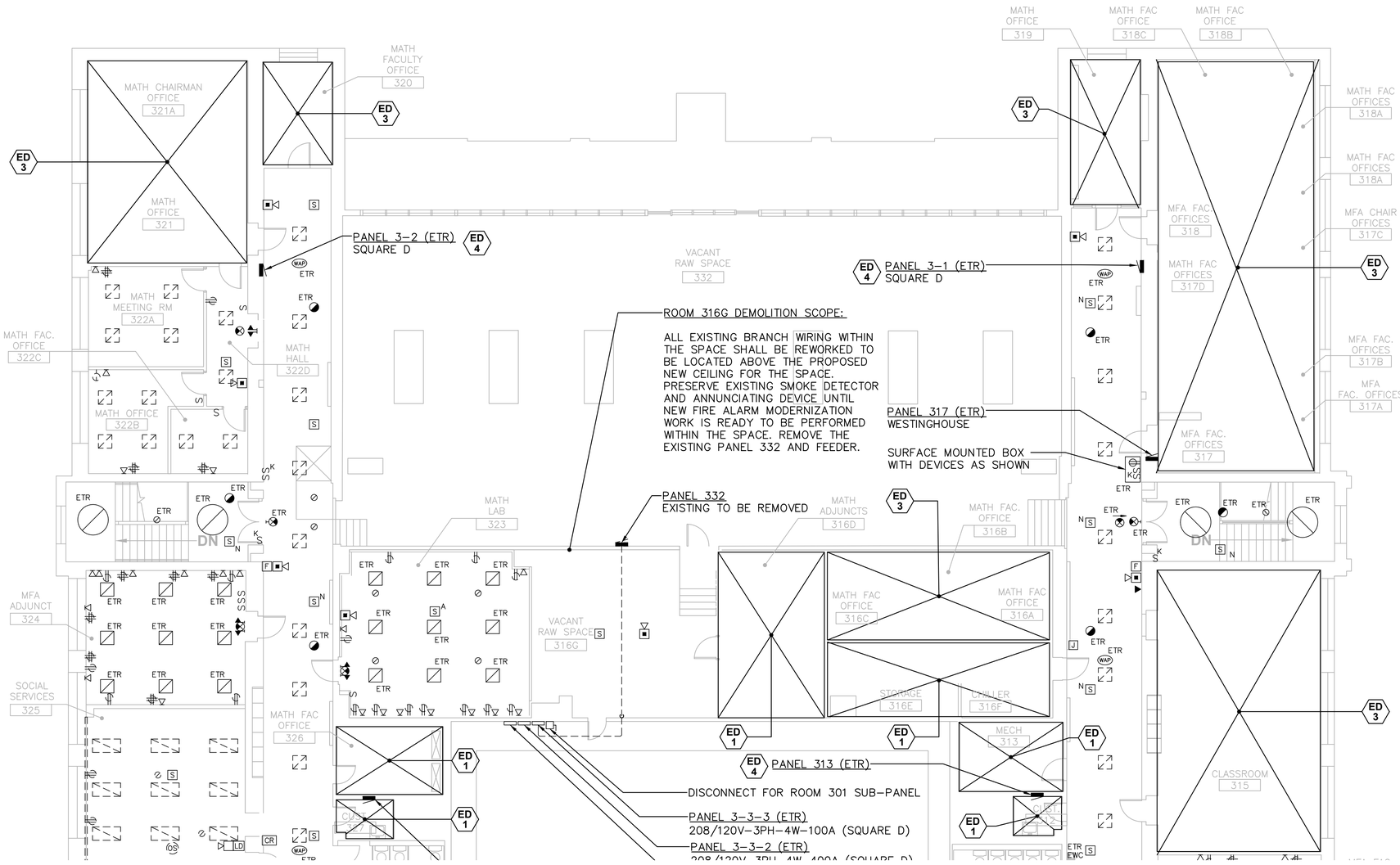

1 ELECTRICAL DEMOLITION THIRD FLOOR PLAN-NORTH

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

ELECTRICAL DEMOLITION KEY NOTES

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drawing title
THIRD FLOOR -
NORTH DEMO PARTIAL PLAN

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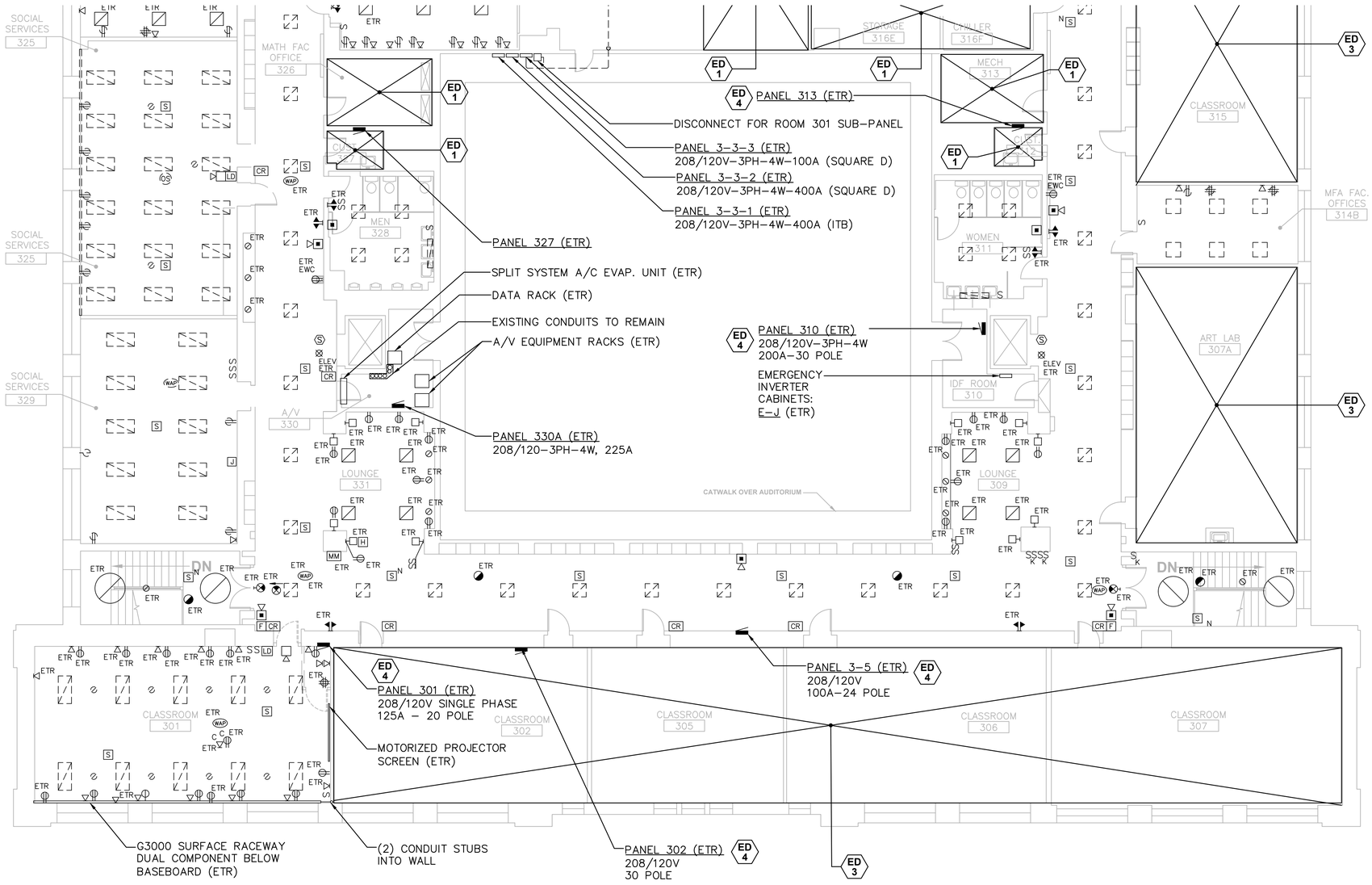

1 ELECTRICAL DEMOLITION THIRD FLOOR PLAN-SOUTH

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

ELECTRICAL DEMOLITION KEY NOTES

ED 1	NO ELECTRICAL WORK TO BE PERFORMED IN THIS AREA UNDER THIS CONTRACT.
ED 2	ELECTRICAL DEMOLITION TO OCCUR IN THIS AREA. REMOVE EQUIPMENT AS REQUIRED AND MAKE SAFE.
ED 3	ELECTRICAL WORK TO BE PERFORMED IN THIS AREA UNDER THIS CONTRACT. PRESERVE EXISTING ELECTRICAL FIXTURES AND EQUIPMENT IN THIS AREA UNLESS NOTED OTHERWISE. REMOVE, STORE, AND REINSTALL AS NECESSARY DURING CONSTRUCTION. REFER TO MECHANICAL DESIGN DRAWINGS AND ARCHITECTURAL DRAWINGS TO IDENTIFY SCOPE OF WORK INVOLVED WITH CEILING GRID REMOVAL. REMOVE LIGHT FIXTURES AT DESIGNATED AREAS OF GRID REMOVAL TO FACILITATE INSTALLATION OF NEW HVAC SYSTEMS. REINSTALL LIGHTING FIXTURES AFTER CEILING GRID HAS BEEN REINSTALLED.
ED 4	EXISTING ELECTRICAL PANELS TO REMAIN. ANY REMOVED BRANCH CIRCUITS SHALL BE RELABELED AS SPARE IN THE DIRECTORY AND THE CIRCUIT BREAKER PLACED IN THE OFF POSITION.

ELECTRICAL DEMOLITION NOTES

1. ALL FLUORESCENT LIGHTING FIXTURES SHALL BE REMOVED AND PROPERLY DISPOSED OF. ALL LAMPS SHALL BE RECYCLED REGARDLESS IF THEY ARE TCLP COMPLIANT.
2. ALL HAZARDOUS MATERIALS SHALL BE DISPOSED OF IN CONFORMANCE WITH UNIVERSAL WASTE RULES.
3. ALL SURFACE RACEWAY THAT IS REMOVED SHALL BE PRESERVED FOR REUSE. THE EC SHALL CONFIRM WITH THE OWNER REGARDING STORAGE OR DISPOSAL OF ANY UNUSED RACEWAY AT THE COMPLETION OF THE PROJECT.
4. PROVIDE 4" DEEP EXTENSION RINGS FOR ALL BACKBOXES REQUIRED AS EXISTING TO REMAIN WITHIN AREAS THAT ARE BEING FURRED OUT. CONFIRM ALL LOCATIONS AND EXACT DEPTHS WITH ARCHITECTURAL DRAWINGS.
5. ALL EXISTING FIRE ALARM ANNUNCIATING DEVICES SHALL BE EXISTING TO REMAIN. ALL EXISTING FIRE ALARM INITIATING DEVICES SHALL BE UPGRADED TO ADDRESSABLE THROUGHOUT THE SECOND AND THIRD FLOORS. COORDINATE REMOVAL OF DEVICES WITH THE PROPOSED MODERNIZATION SCOPE. INCORPORATE FIRE WATCH SERVICES TO MONITOR THE SPACE WHILE NEW DEVICES ARE BEING INSTALLED AND ACTIVATED.
6. ALL SMOKE DETECTORS SHALL BE PROTECTED DURING CONSTRUCTION.
7. WAP DEVICES IN CORRIDORS ARE EXISTING TO REMAIN. REMOVE, PRESERVE AND REINSTALL AFTER NEW CEILING IS IN PLACE.
8. THE OWNER WILL REMOVE PROJECTORS AND SMARTBOARDS PRIOR TO CONSTRUCTION ACTIVITY. THE EC SHALL PRESERVE FOR REUSE ALL EXTRON SYSTEMS, SPEAKER SYSTEMS, PROJECTOR CABLING, SPEAKER WIRING, AND REINSTALL AFTER NEW FINISHES AND CEILING ARE COMPLETE. REFER TO EXTRON #AAP102 DOCUMENTATION PROVIDED BY THE OWNER FOR INSTALLATION REQUIREMENTS.
9. WHERE EXISTING CLASSROOM OR OFFICE LIGHTING IS REMOVED, ALL POWER WIRING SHALL BE DISCONNECTED AND REMOVED. THE EXISTING BACKBOXES AND CONDUITS FOR LIGHTING SWITCHES SHALL BE PRESERVED FOR REUSE. SEE DEMOLITION SCOPE NOTE IN ROOM 220 FOR LIGHTING DEMOLITION PERTAINING TO THIS LOCATION.
10. EXISTING POWER CIRCUITS FOR WINDOW AC UNITS AND CONVENIENCE RECEPTACLES SHALL BE REMOVED BACK TO THE SOURCE UNLESS NOTED OTHERWISE.

drawing title
THIRD FLOOR -
SOUTH DEMO PARTIAL PLAN

REVISIONS

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	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18 5/23/18 7/25/18 1/21/19	CONSTRUCTION DOCUMENTS

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
CONSULTING ENGINEERING SERVICES, INC.
811 MIDDLE STREET
MIDDLETOWN, CT

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

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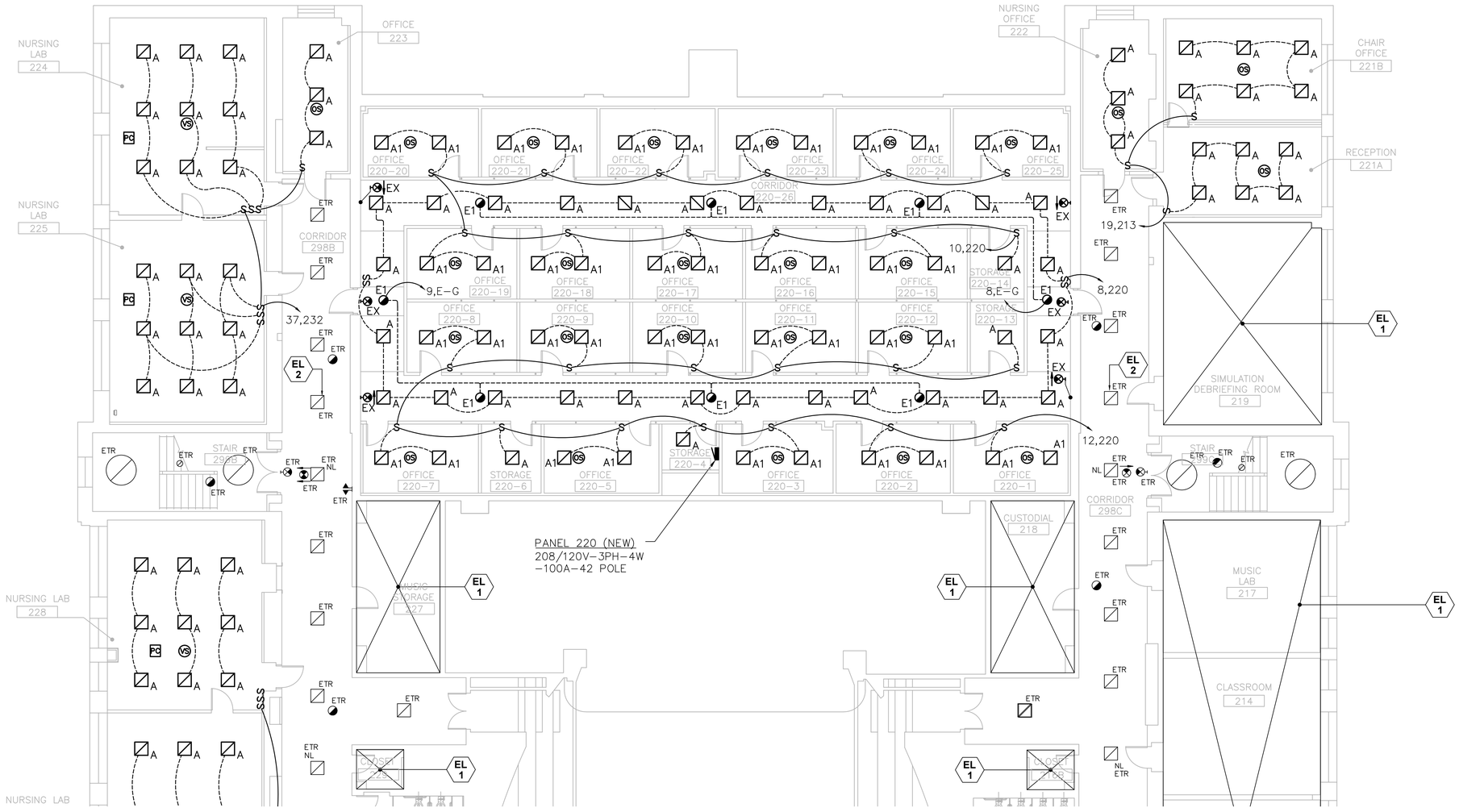

ELECTRICAL LIGHTING KEY NOTES

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EL 2	EXISTING TO REMAIN 2'x2' LIGHTING FIXTURES IN CORRIDOR. FIXTURES SHALL BE REMOVED & REINSTALLED AS REQUIRED FOR ABOVE CEILING WORK.

ELECTRICAL LIGHTING GENERAL NOTES

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2. CONTRACTOR SHALL VERIFY PROPER OPERATION AND CONDITION OF EXISTING FIXTURES TO REMAIN AND PROVIDE A LIST OF PROBLEMS TO THE CA.
3. EXISTING CORRIDOR LIGHTING CONTROLS SHALL REMAIN AND BE UTILIZED WITH EXISTING TO REMAIN FIXTURES ON THE SECOND FLOOR AND WITH NEW FIXTURES ON THE THIRD FLOOR.
4. ALL BRANCH CIRCUITS SHALL BE INSTALLED IN EMT CONDUIT FROM THE PANELBOARD TO THE FIRST DEVICE OR PIECE OF EQUIPMENT ON THE CIRCUIT. WIRING FROM THE FIRST DEVICE TO ADDITIONAL DEVICES SHALL BE INSTALLED IN EMT CONDUIT OR MC CABLE. FLEX CONDUIT (GREENFIELD) WILL BE ALLOWED FOR FINAL WHIP CONNECTIONS OF 6 FEET IN LENGTH OR LESS. TYPE NM AND AC CABLE WILL NOT BE ALLOWED.

1 ELECTRICAL LIGHTING SECOND FLOOR PLAN-NORTH

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

drawing title
SECOND FLOOR -
NORTH LIGHTING PARTIAL PLAN

REVISIONS

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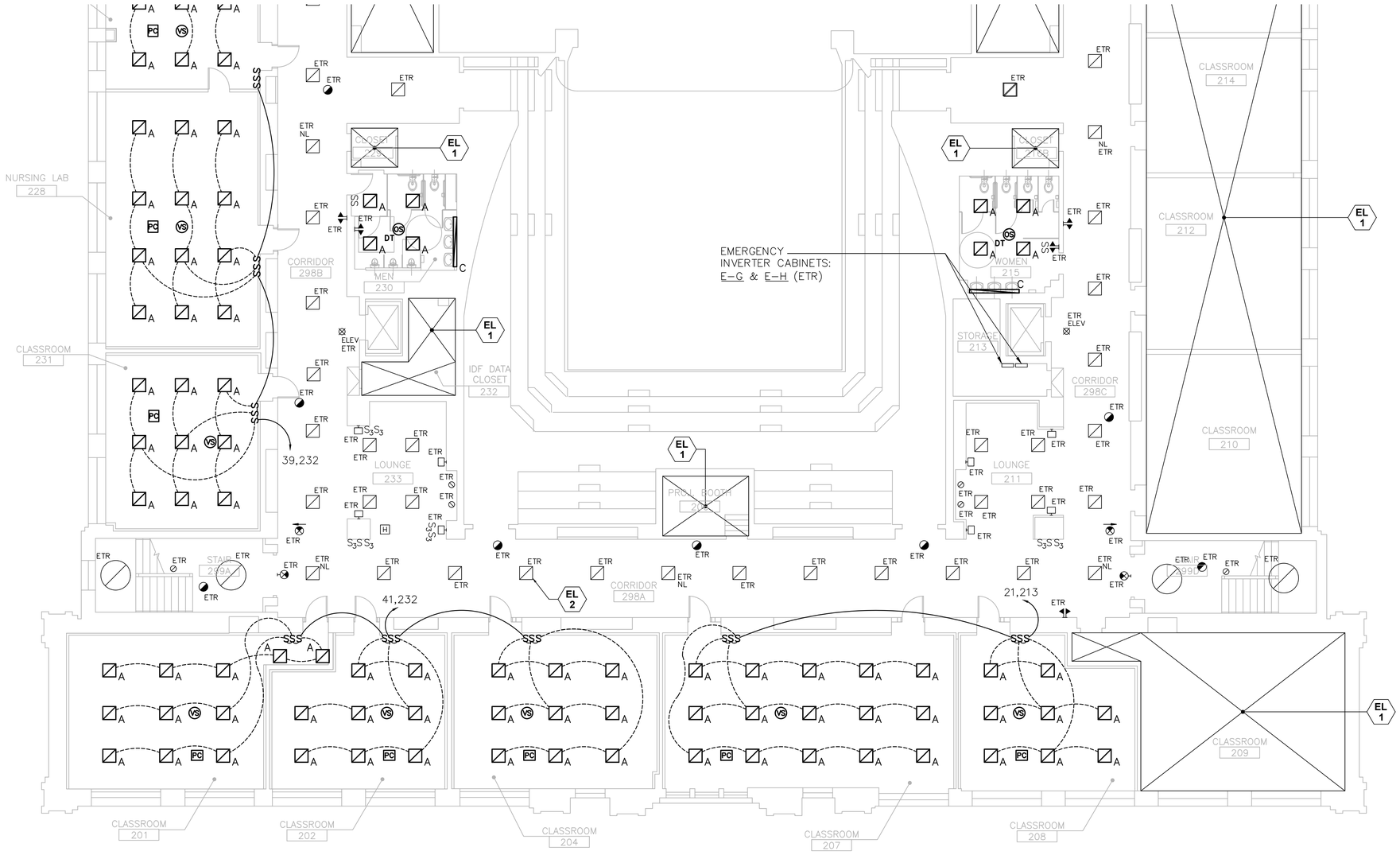

1 **ELECTRICAL LIGHTING SECOND FLOOR PLAN-SOUTH**
SCALE:1/8"=1'-0"

ELECTRICAL LIGHTING KEY NOTES

EL 1	NO ELECTRICAL WORK TO BE PERFORMED IN THIS AREA UNDER THIS CONTRACT.
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ELECTRICAL LIGHTING GENERAL NOTES

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drawing title
SECOND FLOOR -
SOUTH LIGHTING PARTIAL PLAN

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WHITE HALL
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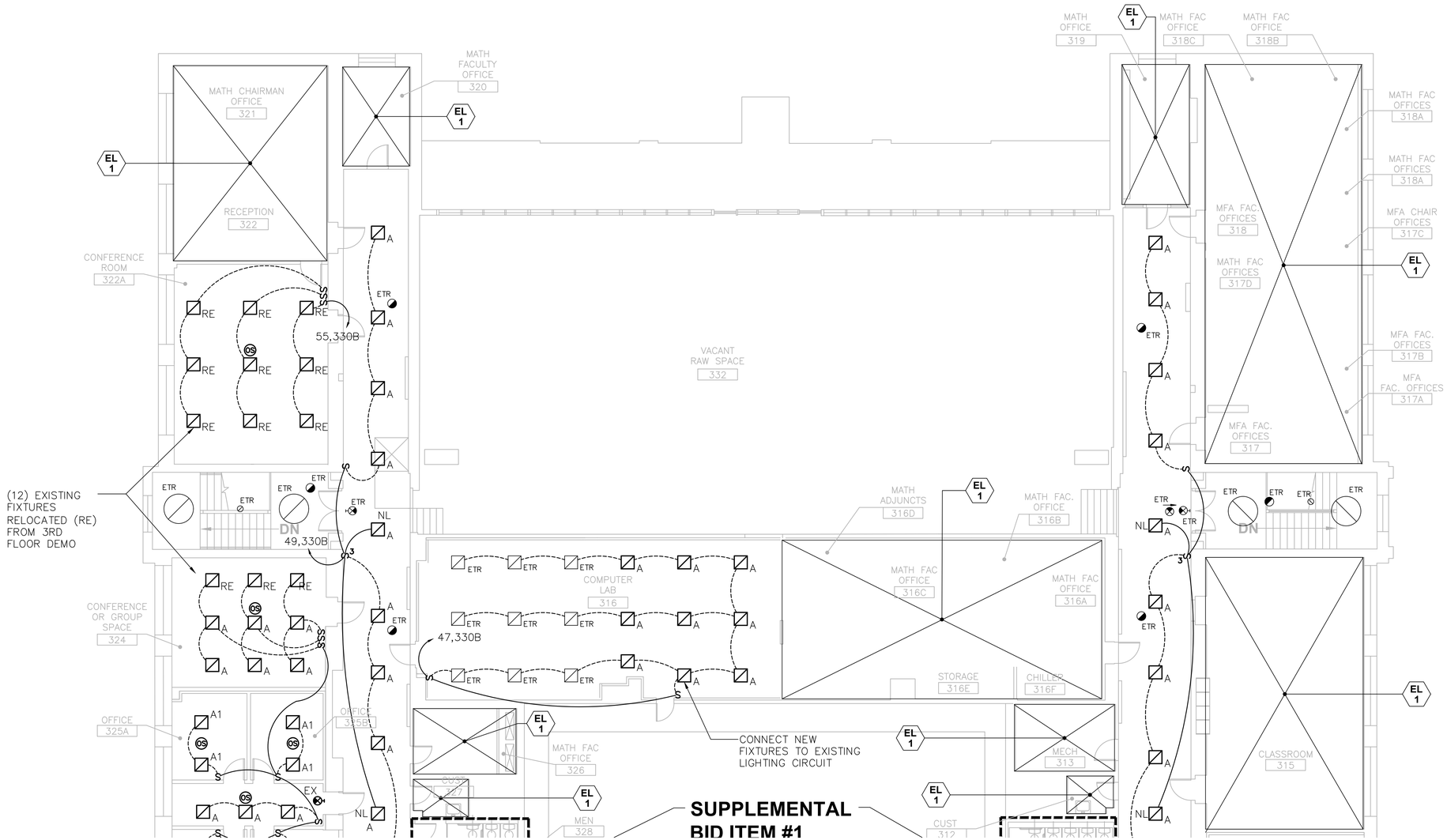

1 ELECTRICAL LIGHTING THIRD FLOOR PLAN-NORTH

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

ELECTRICAL LIGHTING KEY NOTES

EL 1	NO ELECTRICAL WORK TO BE PERFORMED IN THIS AREA UNDER THIS CONTRACT.
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ELECTRICAL LIGHTING GENERAL NOTES

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drawing title
THIRD FLOOR -
NORTH LIGHTING PARTIAL PLAN

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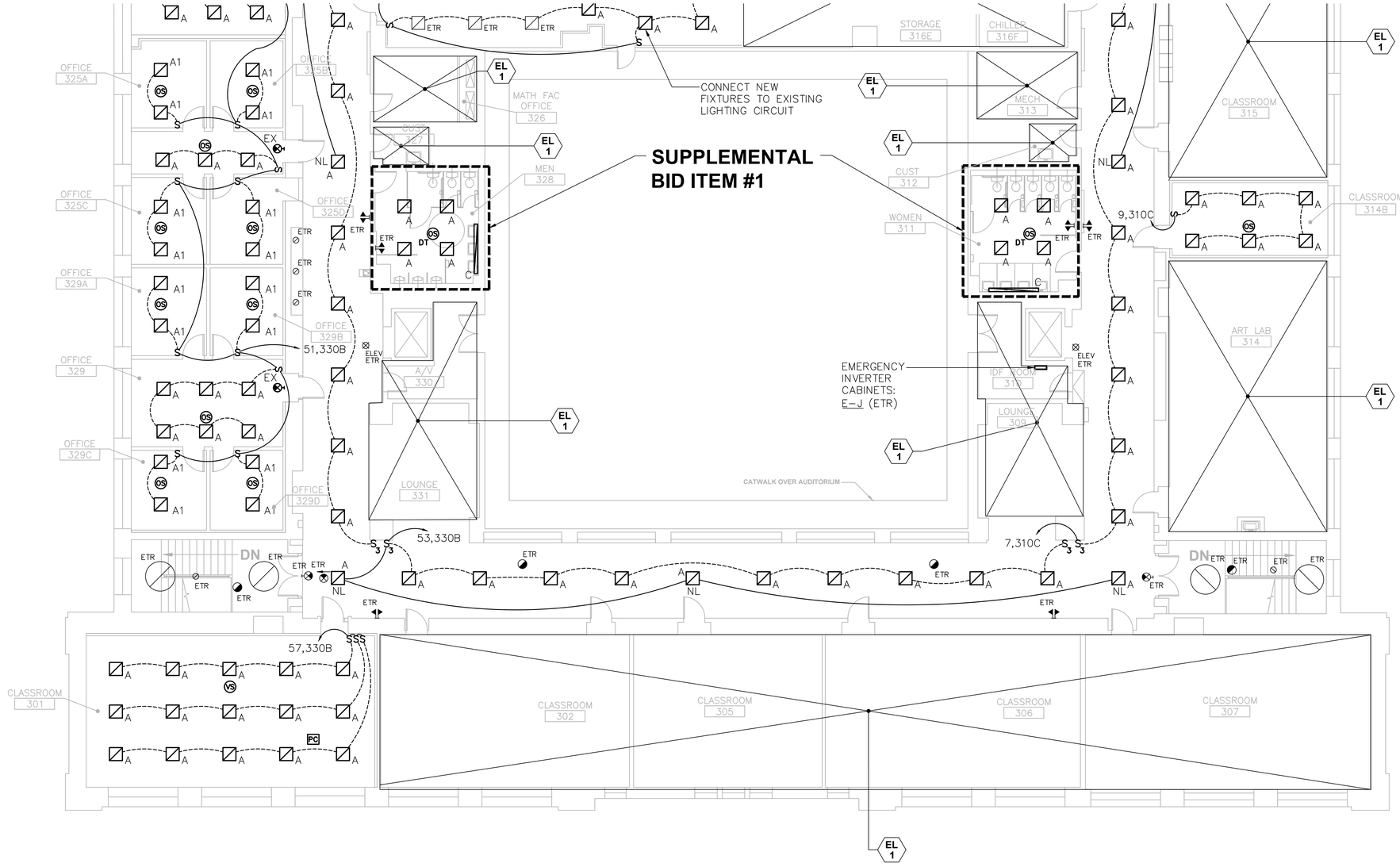

1 **ELECTRICAL LIGHTING THIRD FLOOR PLAN-SOUTH**
SCALE:1/8"=1'-0"

ELECTRICAL LIGHTING KEY NOTES

EL 1	NO ELECTRICAL WORK TO BE PERFORMED IN THIS AREA UNDER THIS CONTRACT.
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drawing title
THIRD FLOOR -
SOUTH LIGHTING PARTIAL PLAN

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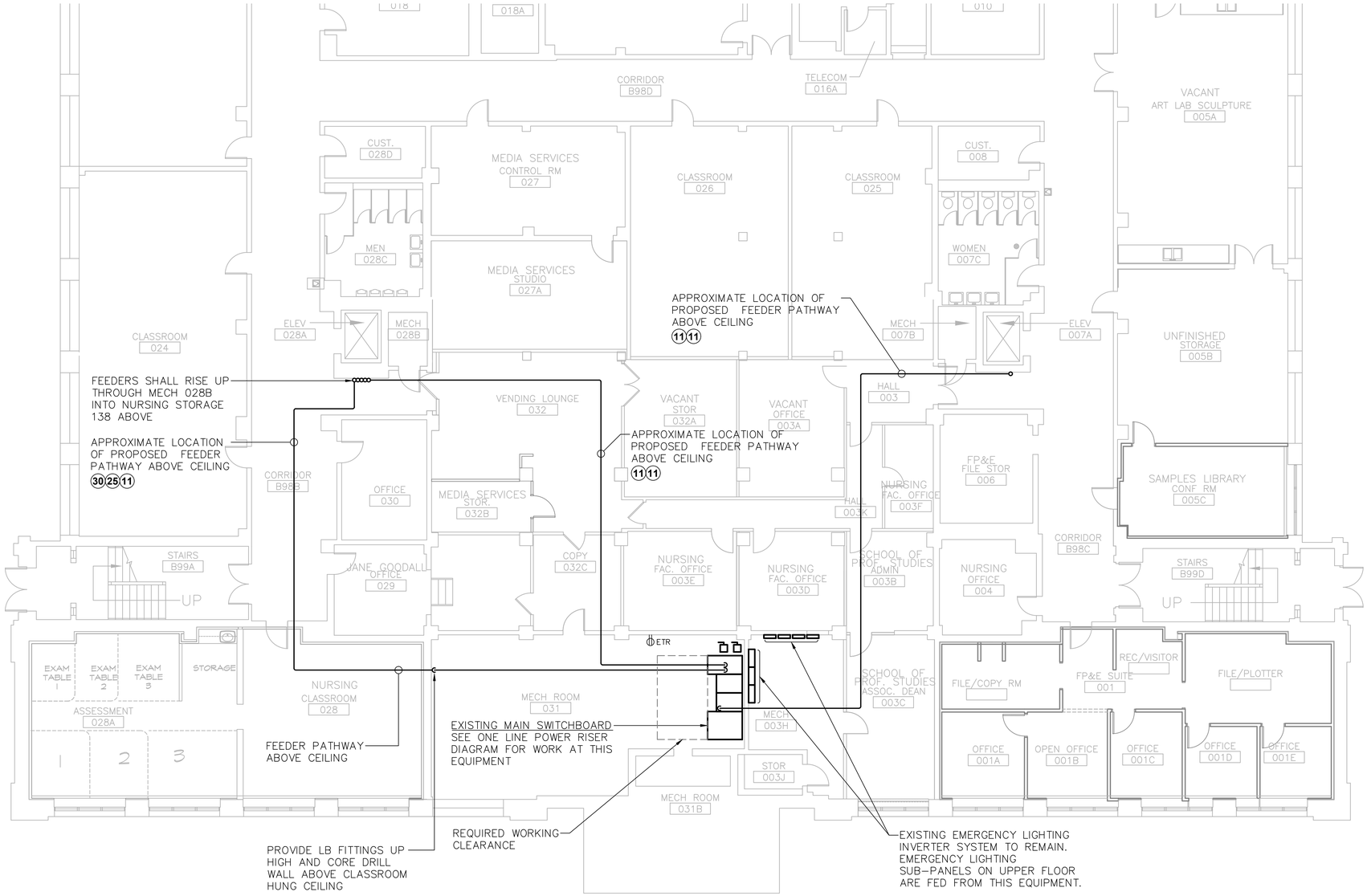

1 ELECTRICAL POWER BASEMENT PARTIAL PLAN
SCALE:1/8"=1'-0"

ELECTRICAL POWER KEY NOTES

EP 1	NO ELECTRICAL WORK TO BE PERFORMED IN THIS AREA UNDER THIS CONTRACT.
EP 2	ALL VRV UNITS WITHIN THIS AREA SHALL BE DAISY CHAINED AND CIRCUITED AS NOTED. REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E2.03 FOR MORE INFORMATION.
EP 3	RECEPTACLE SHALL BE MOUNTED HORIZONTALLY AT FLOOR LEVEL IN THE BENCH SEATING KICKSPACE.
EP 4	EXISTING DEVICES WITH BACKBOXES AND CONDUIT THAT ARE LOCATED IN WALL CONSTRUCTION THAT WILL BE FURRED OUT AS PART OF THE OVERALL RENOVATION SHALL BE RETROFIT WITH BOX EXTENSIONS THAT SHALL PROMOTE A FLUSH INSTALLATION WITH THE NEW WALL SURFACE. ALL BOX LOCATIONS THAT HAVE EMPTY BACKBOXES SHALL BE REVIEWED WITH OWNER AND ENGINEER FOR A DECISION TO REMOVE OR ABANDON IN PLACE.
EP 5	PROVIDE WIREMOLD V4000 DUAL COMPARTMENT.

ELECTRICAL POWER GENERAL NOTES

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2. CONDUIT RISER AND PATHWAY LOCATIONS SHALL BE COORDINATED WITH EXISTING PIPING, DUCTS, CONDUITS, BUILDING STEEL AND STRUCTURAL ELEMENTS.
3. PROVIDE APPROPRIATE FLOOR CORING PENETRATIONS AND SEAL WITH APPROVED FIRESTOP MATERIALS. REFER TO A9.01 AND A9.02 FOR DETAILS.
4. ALL BRANCH CIRCUITS SHALL BE INSTALLED IN EMT CONDUIT FROM THE PANELBOARD TO THE FIRST DEVICE OR PIECE OF EQUIPMENT ON THE CIRCUIT. WIRING FROM THE FIRST DEVICE TO ADDITIONAL DEVICES SHALL BE INSTALLED IN EMT CONDUIT OR MC CABLE. FLEX CONDUIT (GREENFIELD) WILL BE ALLOWED FOR FINAL WHIP CONNECTIONS OF 6 FEET IN LENGTH OR LESS. TYPE NM AND AC CABLE WILL NOT BE ALLOWED.

drawing title
BASEMENT -
SOUTH POWER PARTIAL PLAN

REVISIONS

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	4/16/18	CONSTRUCTION
	5/23/18	DOCUMENTS
	7/25/18	
	1/21/19	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

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811 MIDDLE STREET
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project
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WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
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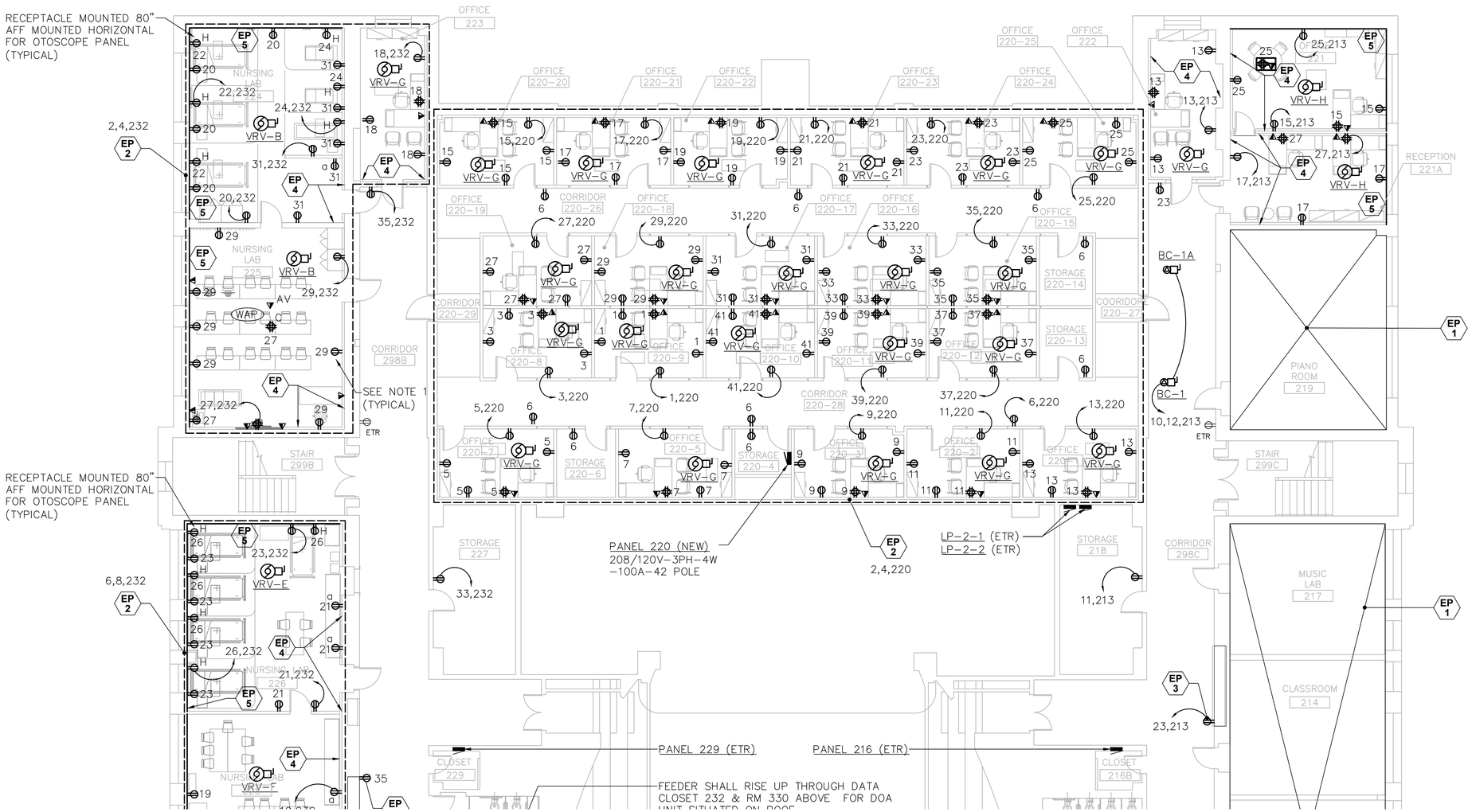

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1 ELECTRICAL POWER SECOND FLOOR PLAN-NORTH

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

drawing title
SECOND FLOOR - NORTH POWER PARTIAL PLAN

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STATE OF CONNECTICUT
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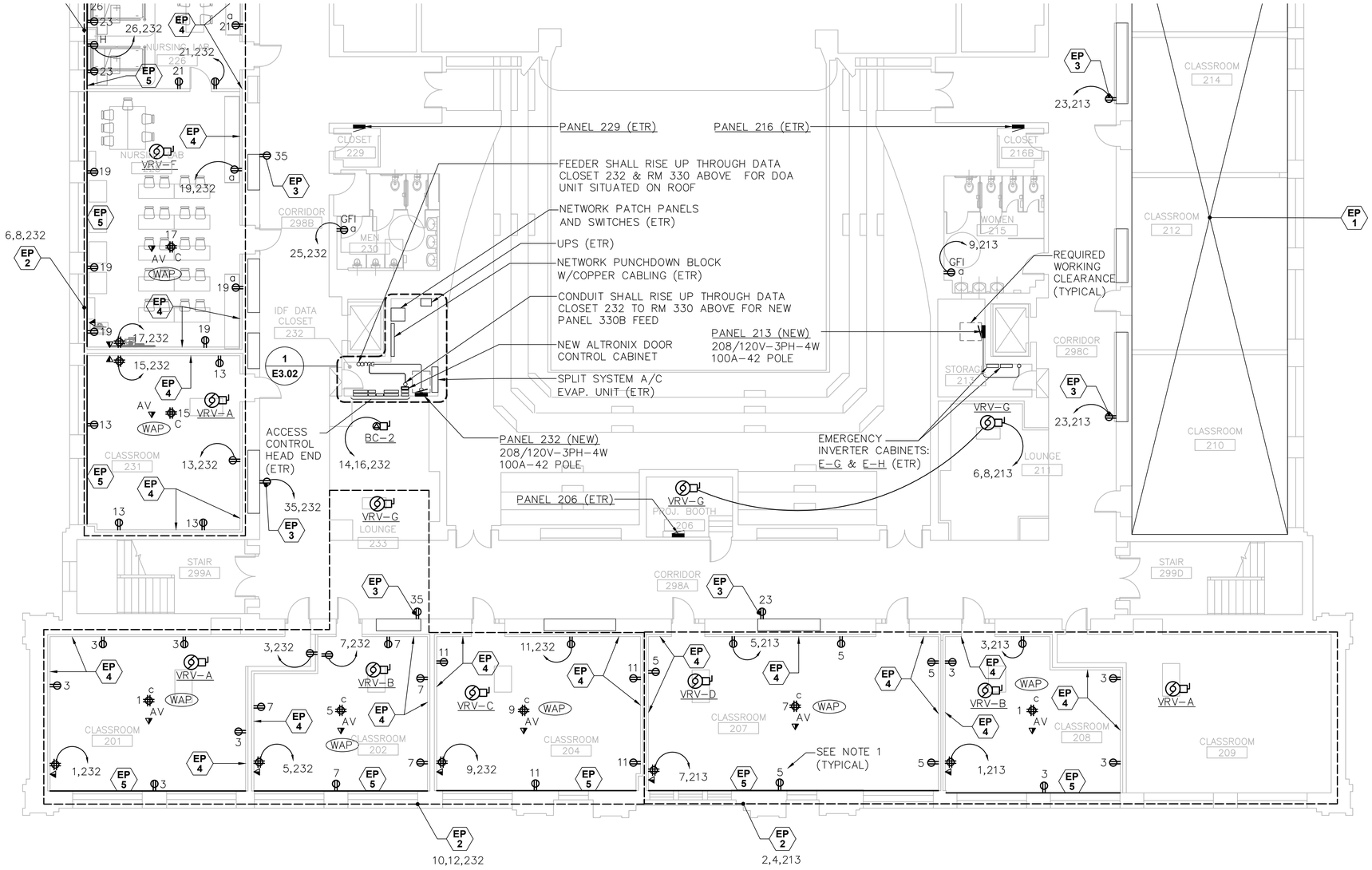

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1 ELECTRICAL POWER SECOND FLOOR PLAN-SOUTH

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

drawing title
SECOND FLOOR - SOUTH POWER PARTIAL PLAN

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STATE OF CONNECTICUT
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DANBURY, CONNECTICUT

CAD no.
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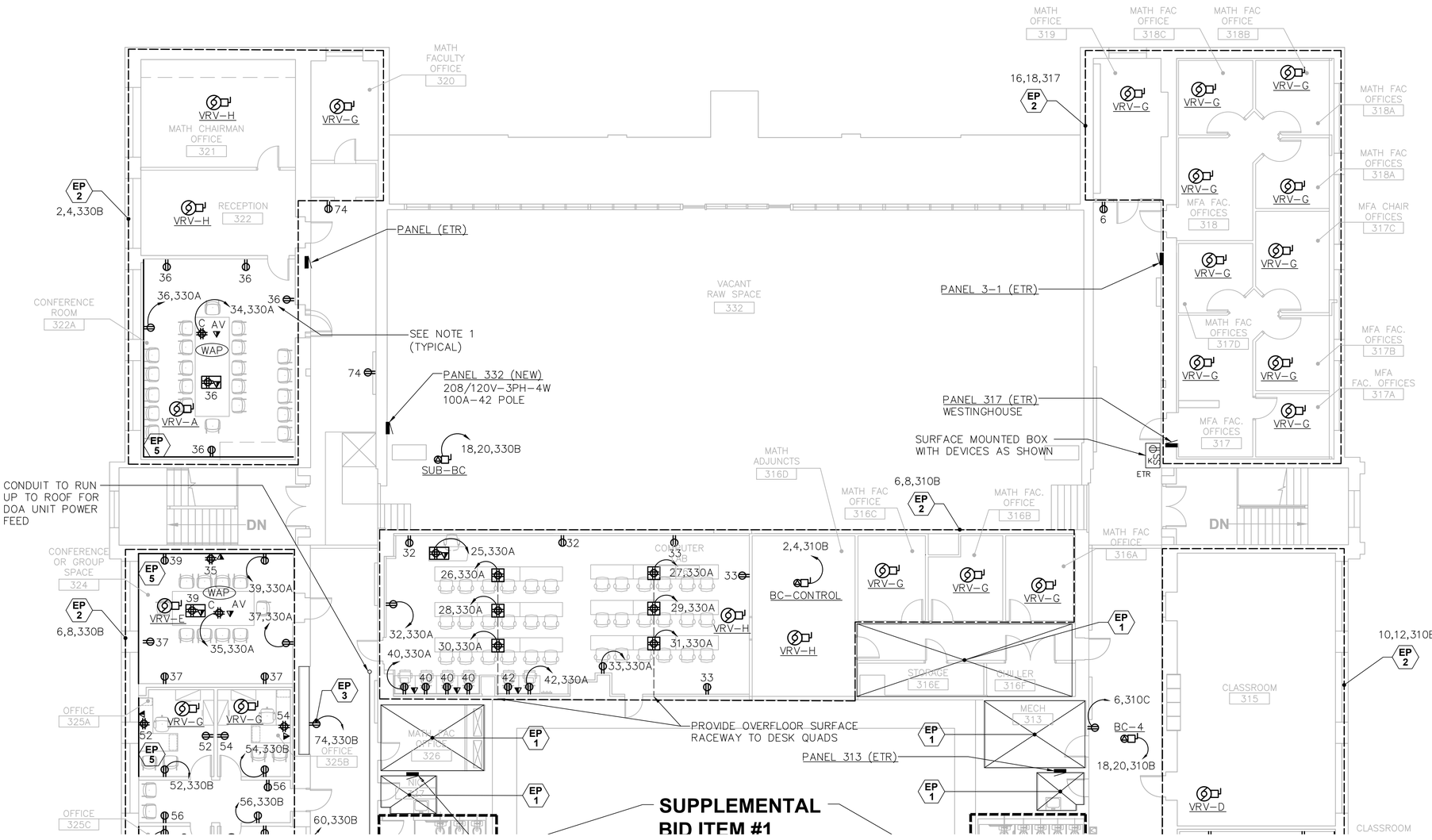
drawing no. **EP1.02**



1 **ELECTRICAL POWER THIRD FLOOR PLAN-NORTH**
SCALE:1/8"=1'-0"

ELECTRICAL POWER KEY NOTES

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drawing title
THIRD FLOOR - NORTH POWER PARTIAL PLAN

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	
	1/21/19	

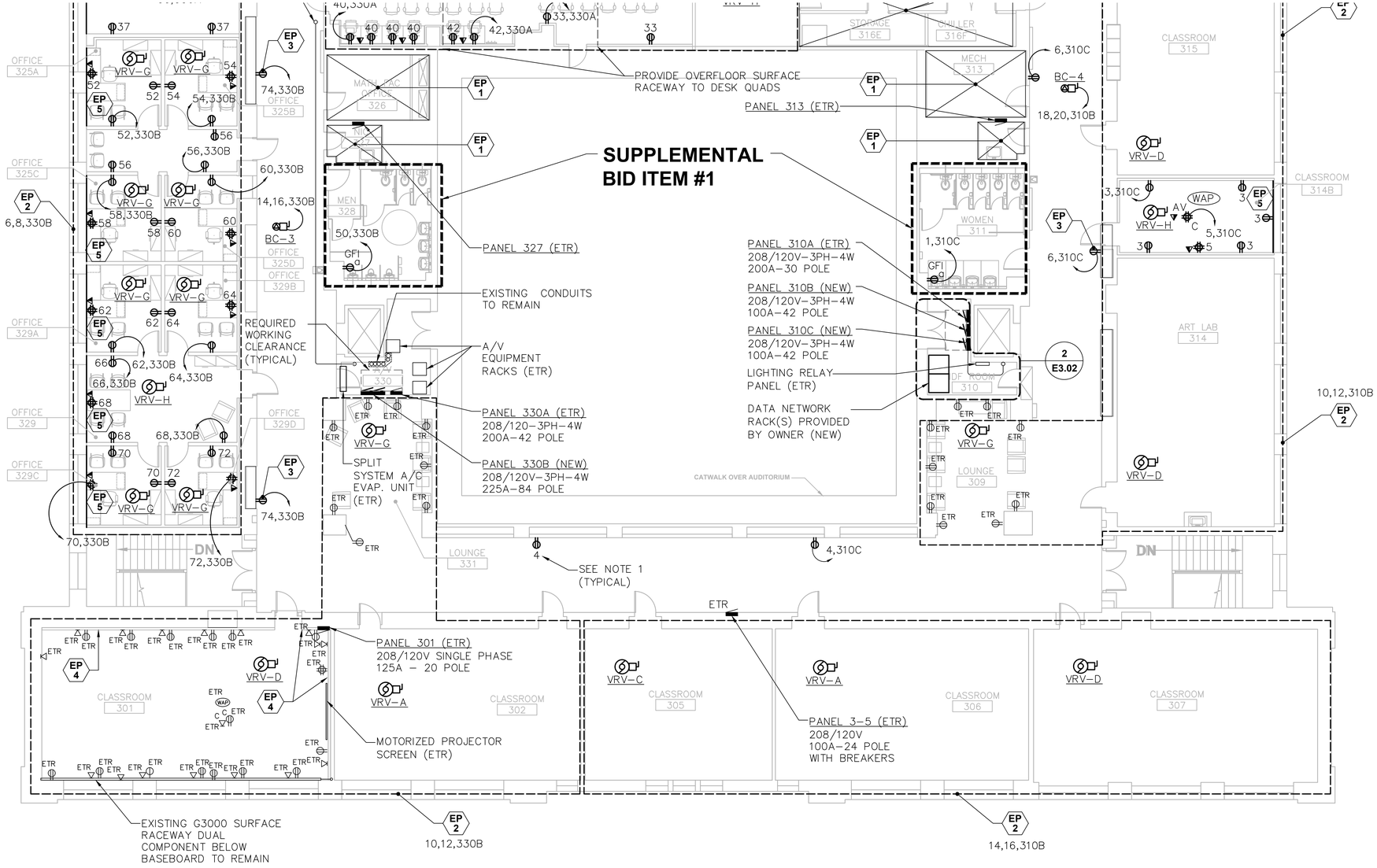
STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
CONSULTING ENGINEERING SERVICES, INC.
811 MIDDLE STREET
MIDDLETOWN, CT

date 07/25/18
scale AS NOTED
drawn by MAL
approved by SJM
drawing no. **EP1.03**

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no. BI-RD-299



ELECTRICAL POWER KEY NOTES

EP 1	NO ELECTRICAL WORK TO BE PERFORMED IN THIS AREA UNDER THIS CONTRACT.
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EP 5	PROVIDE WIREMOLD V4000 DUAL COMPARTMENT.

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1 ELECTRICAL POWER THIRD FLOOR PLAN-SOUTH
SCALE:1/8"=1'-0"

drawing title
THIRD FLOOR - SOUTH POWER PARTIAL PLAN

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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
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WHITE HALL
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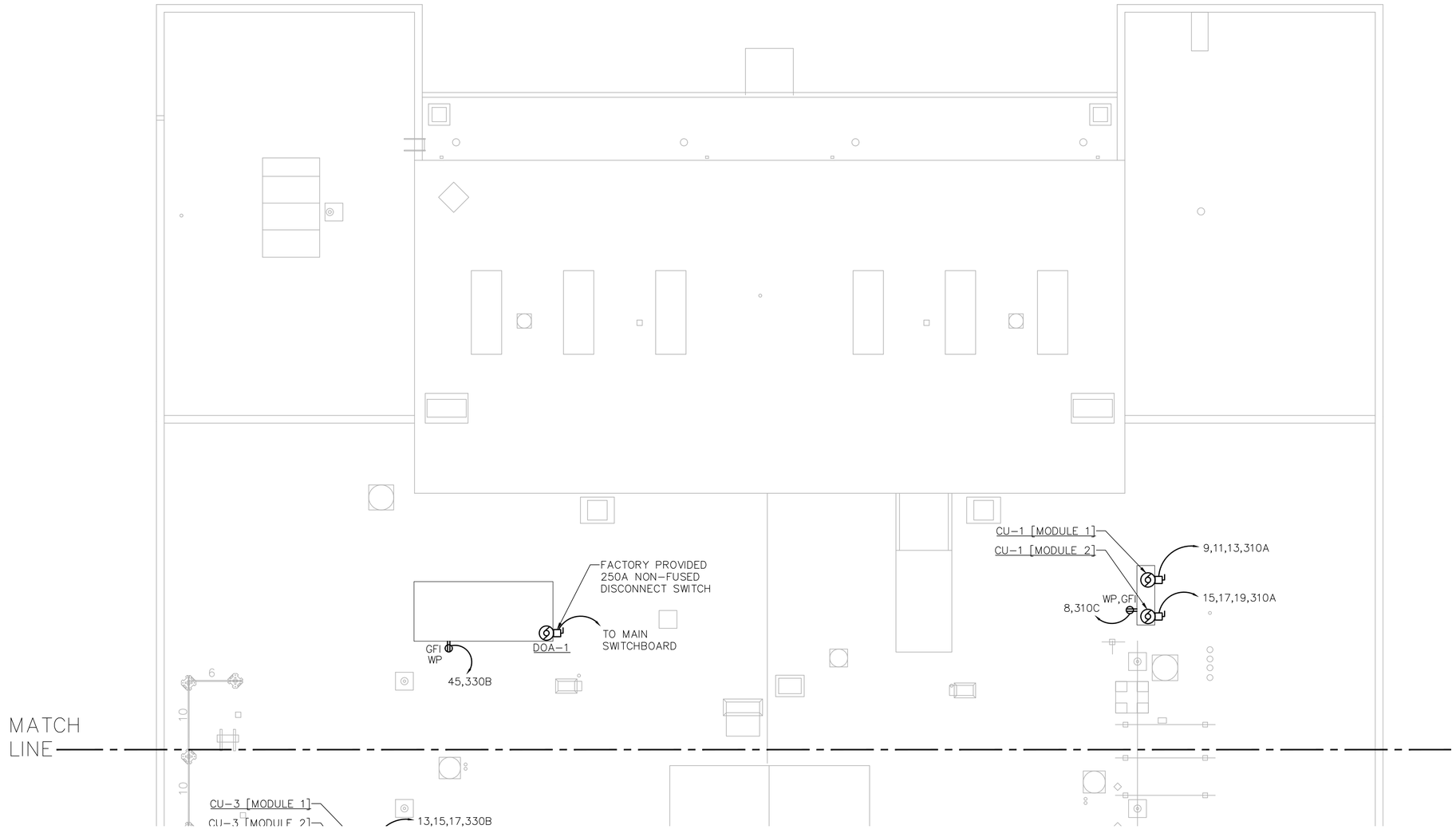

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SCALE:1/8"=1'-0"

drawing title
ROOF -
NORTH POWER PARTIAL PLAN

REVISIONS

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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

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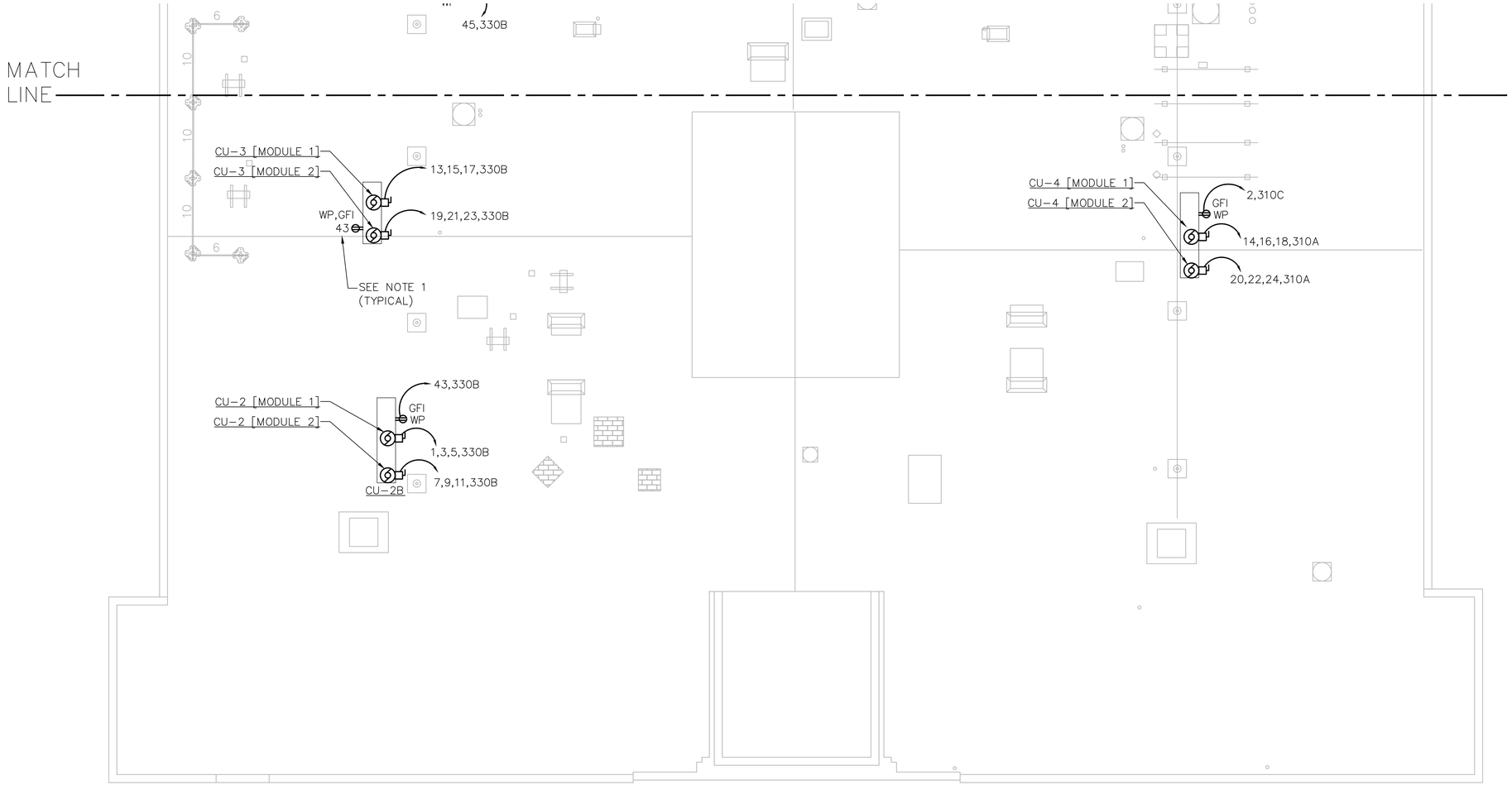

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SCALE:1/8"=1'-0"

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drawing title
ROOF -
SOUTH POWER PARTIAL PLAN

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STATE OF CONNECTICUT
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MIDDLETOWN, CT

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WESTERN CT STATE UNIVERSITY
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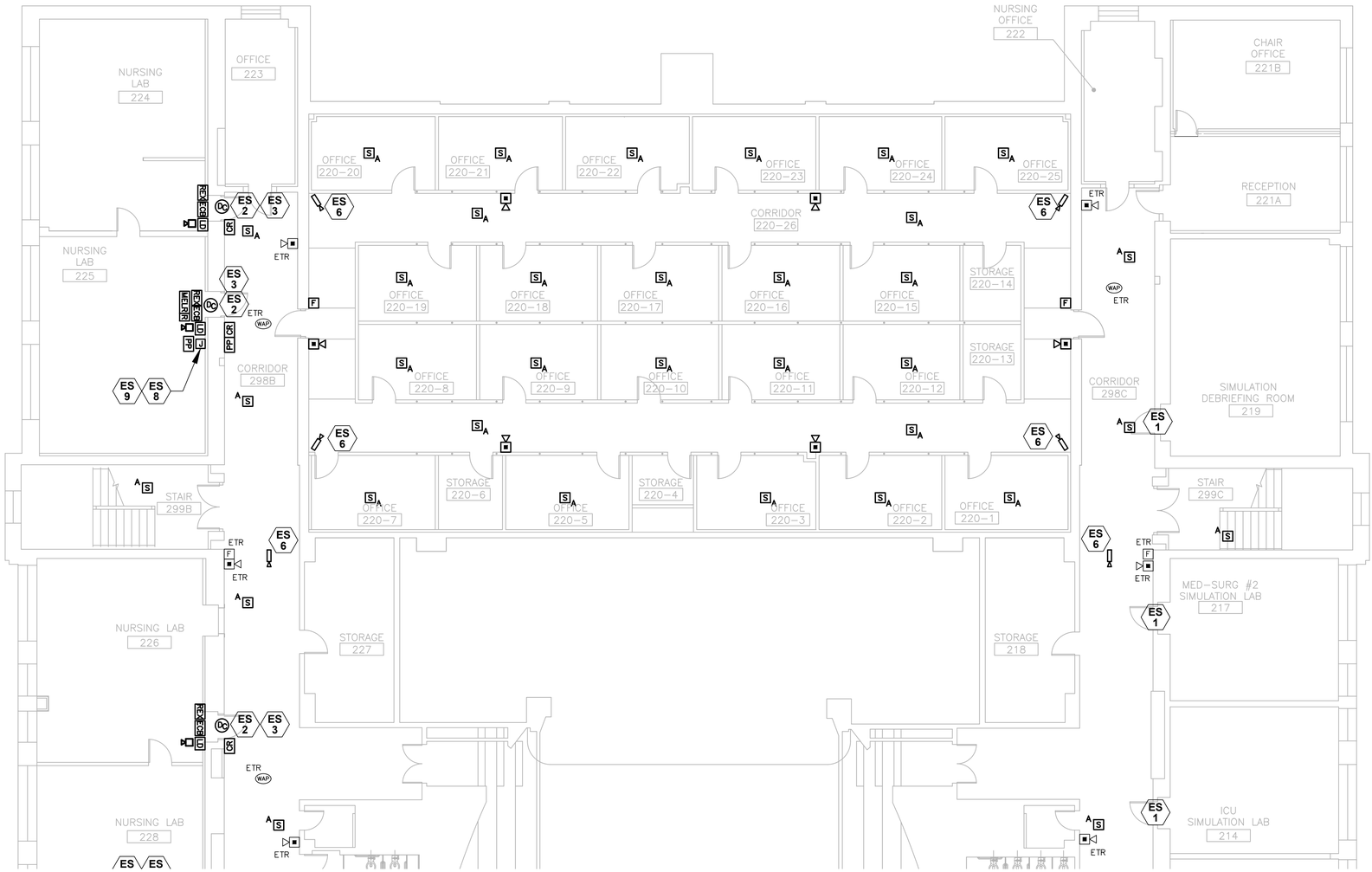

ELECTRICAL SECURITY KEY NOTES

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ELECTRICAL SECURITY GENERAL NOTES

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1 ELECTRICAL SECURITY SECOND FLOOR PLAN-NORTH

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

drawing title
SECOND FLOOR -
NORTH SECURITY PARTIAL PLAN

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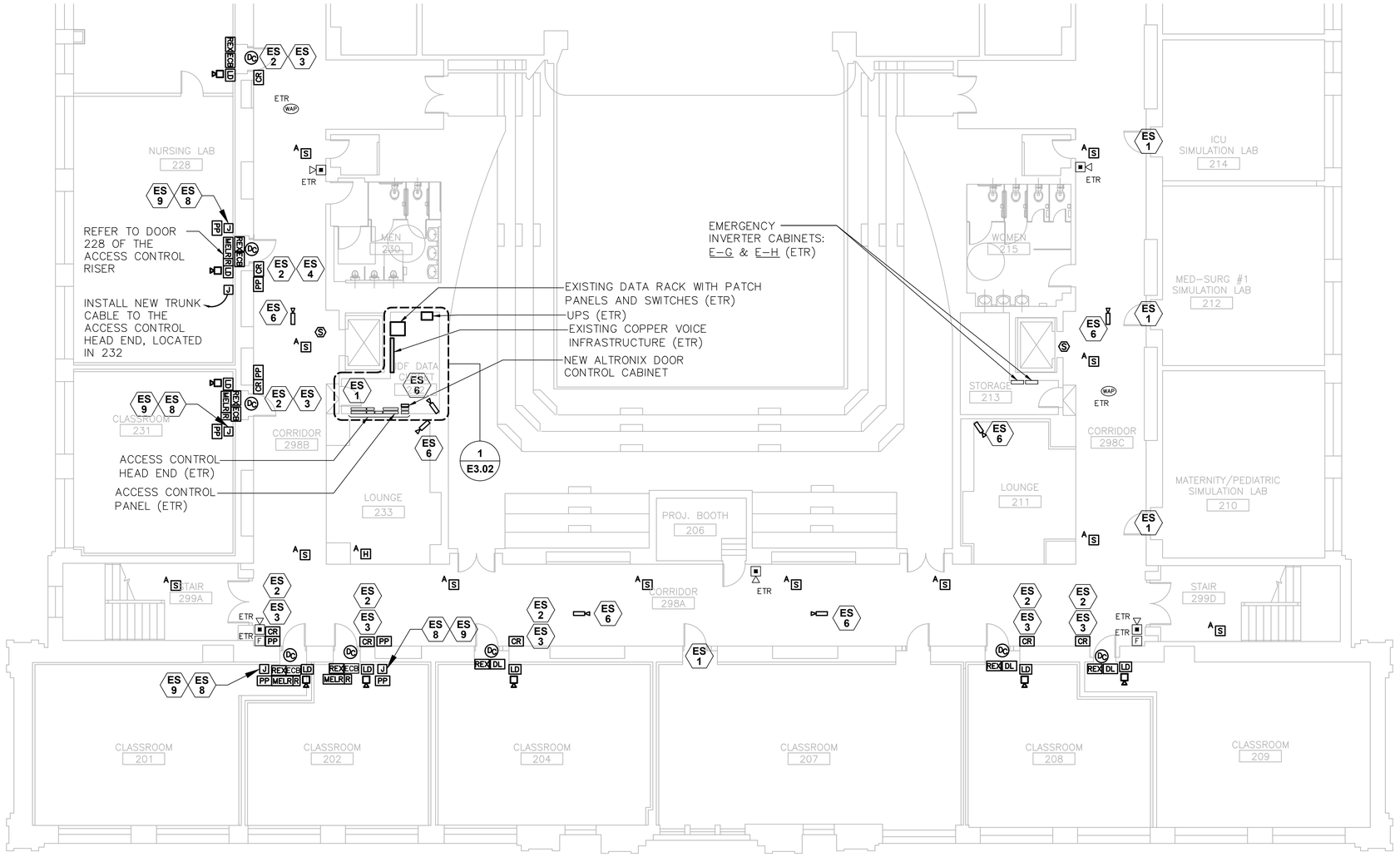

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ELECTRICAL SECURITY GENERAL NOTES

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

drawing title
SECOND FLOOR - SOUTH SECURITY PARTIAL PLAN

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STATE OF CONNECTICUT
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project
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WHITE HALL
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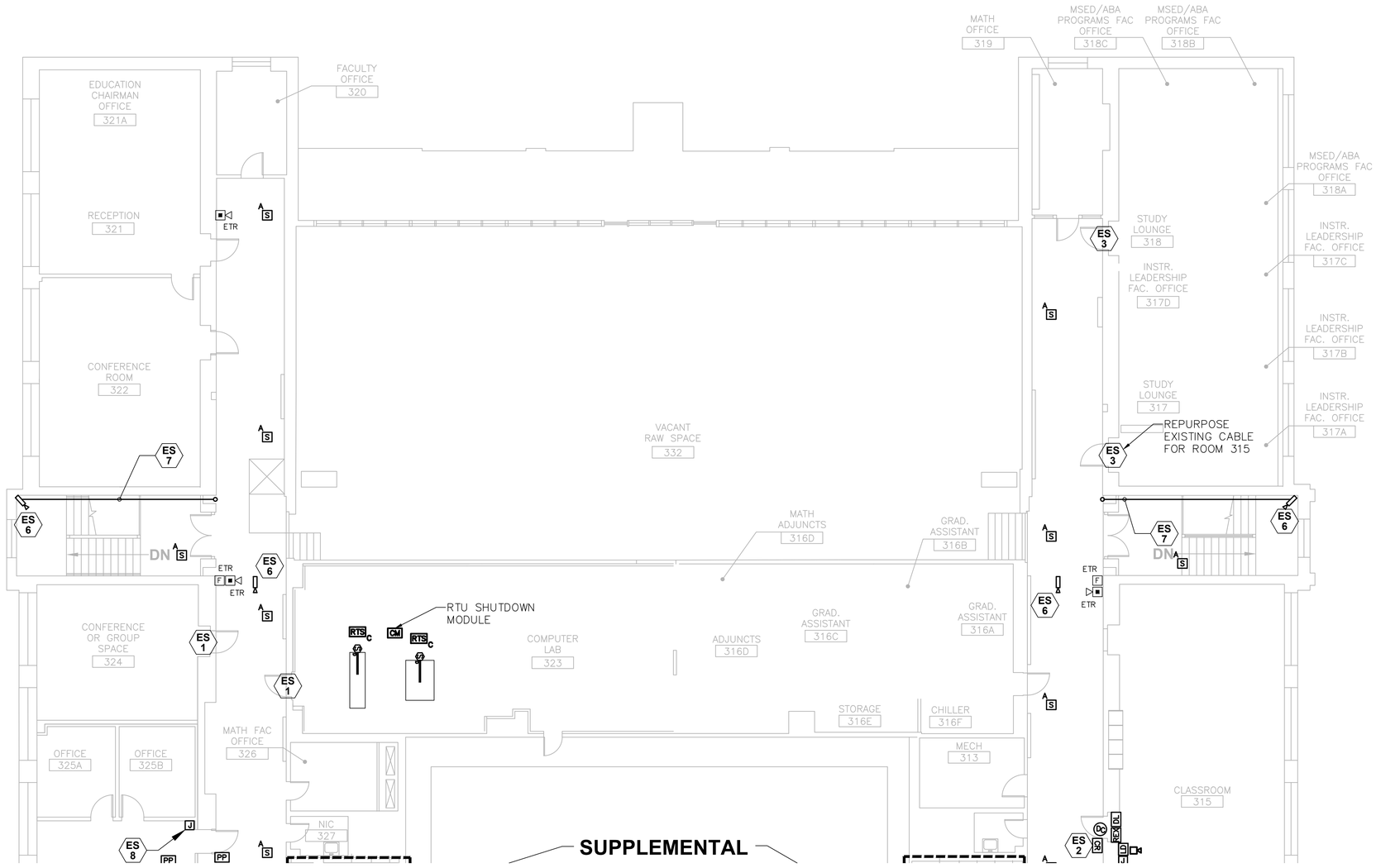

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SCALE:1/8"=1'-0"

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drawing title
THIRD FLOOR -
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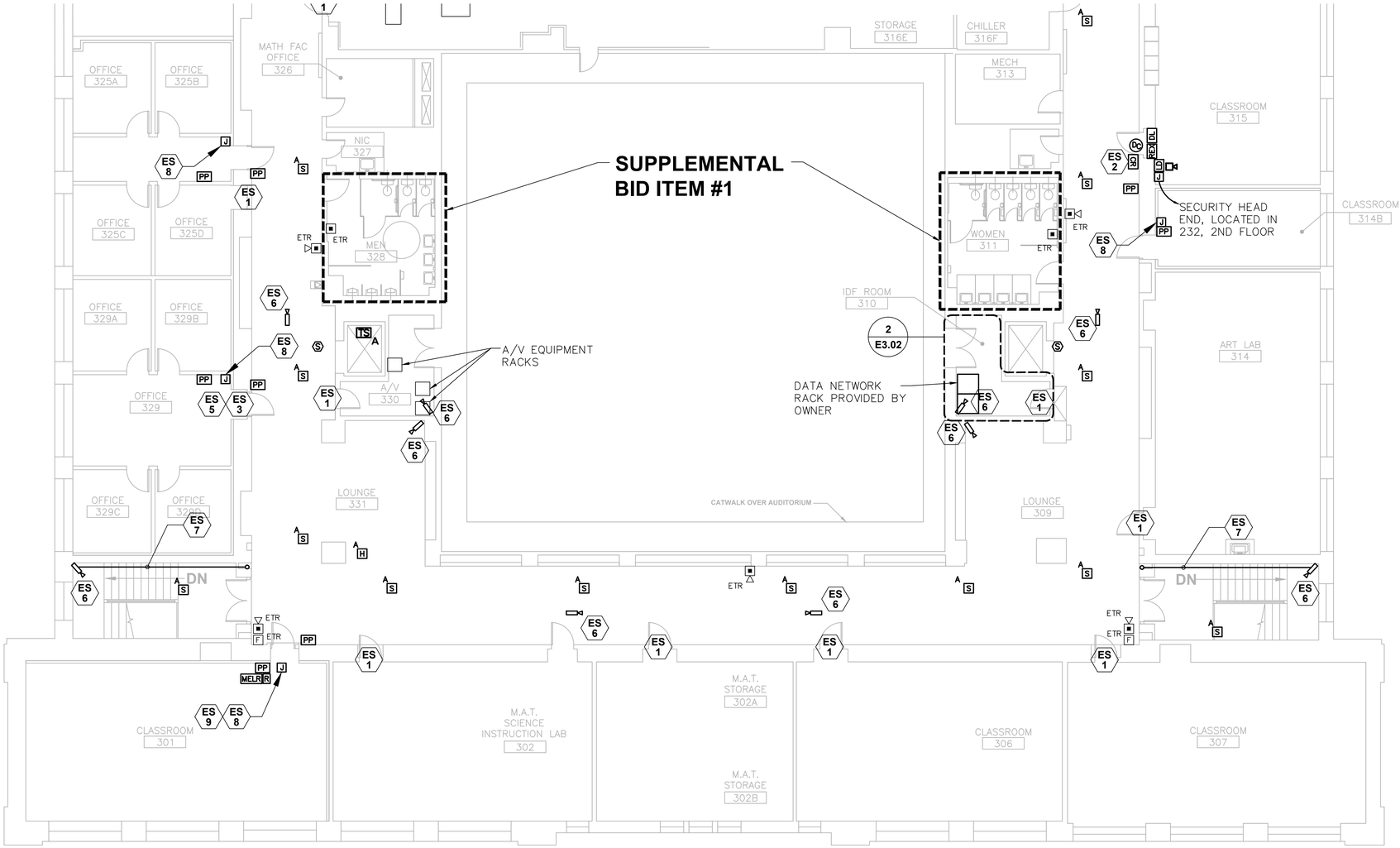

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SCALE:1/8"=1'-0"

drawing title
THIRD FLOOR -
SOUTH SECURITY PARTIAL PLAN

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07/25/18

scale
AS NOTED

drawn by
MAL

approved by
SJM

drawing no.
ES1.04

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
	SURFACE MOUNTED PANELBOARD
	RECESSED PANELBOARD
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	ELECTRICAL MOTOR
	PADDLE FAN
	BRANCH CIRCUIT WIRING, CONCEALED IN WALLS OR CEILINGS
	HOMERUN TO PANELBOARD, UNLESS INDICATED OTHERWISE SHALL BE CONNECTED TO A 1 POLE, 20 AMP CIRCUIT BREAKER
	BRANCH CIRCUIT WIRING, SWITCHED
	CONDUIT RUN ON SURFACE OF WALLS/CEILING
	BRANCH CIRCUIT WIRING BELOW GRADE/SLAB
	SECURITY/ACCESS CONTROL CABLE WITH BREAKOUT BOX
	SINGLE GANG BOX WITH BUSHED HOLE AND XLR MICROPHONE CABLE
J , J	JUNCTION BOX
*	DUPLEX WALL MOUNTED RECEPTACLE, * SEE NOTE BELOW
*	DOUBLE DUPLEX WALL MOUNTED RECEPTACLE, * SEE NOTE BELOW
GFI *	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTION
*	SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AS INDICATED
*	TELEPHONE OUTLET, 4-11/16" BACKBOX WITH 1" CONDUIT STUBBED INTO AN ACCESSIBLE CEILING, PROVIDE NYLON PULL STRING AND BUSHING, * SEE NOTE BELOW
*	COMPUTER, PRINTER/FAX OUTLET, 4-11/16" BACKBOX WITH 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING. PROVIDE NYLON PULL STRING AND BUSHING, PROVIDE (2) CAT6 DATA CABLES, JACKS AND FACEPLATE. * SEE NOTE BELOW
*	WORKSTATION AREA OUTLET (WAO), 4-11/16" BACKBOX WITH 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING. PROVIDE NYLON PULL STRING AND BUSHING, PROVIDE (2) CAT6 DATA CABLES, JACKS AND FACEPLATE. * SEE NOTE BELOW
DL	ELECTRIFIED DOOR LOCKSET
ECB	ELECTRONIC CRASH BAR
PP	ADA DOOR OPERATOR PUSH PLATE
R	RIB RELAY
MELR	MOTORIZED ELECTRONIC LATCH RETRACTION WITH ECB
	SURVEILLANCE CAMERA - IP BASED, PROVIDE (2) CAT6 CABLES, JACKS AND (2) PORT JACK AT THIS LOCATION.
CR	CARD READER
REX	REQUEST TO EXIT
MD	CEILING MOUNTED MOTION DETECTOR - 360° DETECTION PATTERN
LD	LOCAL LOCKDOWN
	DOOR MANAGEMENT ALARM
	1' X 4' SURFACE WRAP LIGHT FIXTURE
	WALL MOUNTED LINEAR SCONCE LIGHT FIXTURE
	2' X 2' SURFACE MOUNT LIGHT FIXTURE
	WALL MOUNTED EMERGENCY PENDANT FIXTURE

SYMBOL	DESCRIPTION
	PENDANT LIGHTING FIXTURE
	RECESSED LIGHTING FIXTURE
	WALL MOUNTED SCONCE LIGHTING FIXTURE
	INDUSTRIAL LED FIXTURE
	SURFACE MOUNTED DOWNLIGHT FIXTURE
	RECESSED DOWNLIGHT FIXTURE
	RECESSED DOWNLIGHT FIXTURE ON EMERGENCY POWER
	WALL MOUNTED EXIT SIGN
	CEILING MOUNTED EXIT SIGN
ELEV	PENDANT MOUNTED ELEVATOR SIGN
	WALL MOUNTED COMBINATION SPEAKER/STROBE LIGHT WITH ADJUSTABLE CANDELA & SPEAKER DB SETTINGS MOUNT AT 6'-8" AFF
	WALL MOUNTED ADA 15/75 CANDELA STROBE UNIT ONLY
F	WALL MOUNTED FIRE ALARM MANUAL PULL STATION, MOUNT AT 48" AFF
S	CEILING MOUNTED SMOKE DETECTOR
S_N	CEILING MOUNTED SMOKE DETECTOR, NEWER TYPE
S_A	CEILING MOUNTED SMOKE DETECTOR, ADDRESSABLE TYPE
S_Z	CEILING MOUNTED SMOKE DETECTOR, ZONED TYPE
S D	DUCT SMOKE DETECTOR
P	PROJECTOR
EP	EXTRON PROJECTOR INTERCONNECT
PSC	MOTORIZED PROJECTOR SCREEN CONTROL
CM	CONTROL MODULE
VS	CEILING MOUNTED VACANCY SENSOR
OS	CEILING MOUNTED OCCUPANCY SENSOR
OS_{DT}	DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR
VS	CORNER MOUNTED VACANCY SENSOR
FACP	FIRE ALARM CONTROL PANEL
LC	LIGHTING CONTACTOR PANEL
E	EMERGENCY CALL TOGGLE SWITCH
E	EMERGENCY CALL FOR AID COMBINATION BUZZER/LIGHT
S	SINGLE POLE TOGGLE SWITCH
S_3	THREE WAY TOGGLE SWITCH
S_D	DIMMER SWITCH
S_K	KEY SWITCH
$S_{3,D}$	THREE WAY DIMMER SWITCH
S_{OS}	WALL MOUNTED OCCUPANCY SENSOR SWITCH
S_{VS}	WALL MOUNTED VACANCY SENSOR SWITCH
$S_{D,VS}$	WALL MOUNTED, VACANCY SENSOR DIMMER SWITCH
S_M	30A, 2 POLE TOGGLE SWITCH
KP	SECURITY SYSTEM ENTRY KEYPAD
PC	PHOTOCELL
WAP	CEILING MOUNTED WIRELESS ACCESS POINT - PROVIDE (2) CAT6A CABLES, JACKS AND (2) PORT FACEPLATES AT THIS LOCATION
DC	DOOR CLOSURE CONTACT
DH	DOOR HOLD
S	CEILING SPEAKER
	WALL SPEAKER

NOTE:

RECEPTACLE/DATA OUTLET SUBSCRIPT * DENOTES:
- blank = WALL MOUNTED 18" AFF UNLESS NOTED OTHERWISE
- a = MOUNT ABOVE COUNTER
- b = LOCATE PER ARCHITECTURAL ELEVATIONS
- c = CEILING MOUNTED
- H = HORIZONTALLY MOUNTED 80" AFF UNLESS NOTED OTHERWISE

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	VOLT.	LAMPS	MOUNTING	FIXTURE DESCRIPTION
A	METALUX 22EN-LD1-34-UNV-L835-CD1-U 2x2 LED RECESSED TROFFER	MVOLT	LED-35W 3400 LUMENS	RECESSED CEILING	2x2 RECESSED TROFFER, 3400 LUMENS, 3500K, 1 DRIVER, 0-10V DIMMER
A1	METALUX 22EN-LD1-40-UNV-L835-CD1-U 2x2 LED RECESSED TROFFER	MVOLT	LED-35W 4000 LUMENS	RECESSED CEILING	2x2 RECESSED TROFFER, 4000 LUMENS, 3500K, 1 DRIVER, 0-10V DIMMER
B	DAY-BRITE LF4FR3935UDZT	120V	LED-33W 3700 LUMENS	CEILING	4' INDUSTRIAL LED FIXTURE WITH ALUMINUM HOUSING, PRISMATIC REFRACTOR, AND AIRCRAFT CABLE MOUNTING, FIXTURE SHALL BE MOUNTED AT 8'-0" AFF UNLESS OTHERWISE NOTED.
C	LITHONIA #FMVCAL-8IN-MVOLT-30K-90CRI-BN-M4	120V	LED-34W 3000 LUMENS	SURFACE WALL MOUNT	48" WALL SCONCE OVER TOILET ROOM SINKS, VANITY LIGHT BAR LINEAR LED W/BRUSHED NICKEL FINISH
E1	DUAL-LITE #EV4R	120V	15W	RECESSED CEILING	EMERGENCY LIGHTING FIXTURE, RECESS MOUNTED IN CEILING
EX	DUAL-LITE HCX-U-R-W-03L	120V	3W MR16 LED INCL. W/FIXTURE	UNIVERSAL	UNIVERSAL MOUNT SINGLE/DOUBLE FACE EXIT SIGN WITH INTEGRAL BATTERY AND SOLID STATE CHARGER, (2) MR16 LED HEADS

LIGHTING FIXTURE NOTES:

1. THE NAMED MANUFACTURER LISTED IN THE LUMINAIRE SCHEDULE IS THE BASIS OF DESIGN. IF THE CONTRACTOR CHOOSES TO PROVIDE AN EQUIVALENT MANUFACTURER, THE LIGHT FIXTURE SUBMITTAL SHALL INCLUDE IN ADDITION TO THE PROPOSED LIGHT FIXTURE CUT SHEETS LIGHTING CALCULATIONS FOR ALL INTERIOR AND EXTERIOR AREAS. THE EQUAL FIXTURE APPROVAL SHALL BE EVALUATED BASED ON THE AESTHETICS, QUALITY, CONSTRUCTION AND OPTICAL PERFORMANCE BY THE ENGINEER AND OR ARCHITECT. FIXTURE SAMPLES SHALL BE PROVIDED AS REQUESTED BY THE ENGINEER AND OR ARCHITECT.
2. REFER TO THE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL GENERAL REQUIREMENTS.
3. FIXTURES SHALL BE UL OR ETL LISTED, DLC QUALIFIED.
4. LED LIGHTING FIXTURES AND COMPONENTS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH IES LM-79 AND LM-80, UL 1593 AND 8750. DRIVERS SHALL BE PROVIDED THAT OPERATE AT THE LISTED VOLTAGE RATING OF THE FIXTURE.
5. MOUNTING HARDWARE SUCH AS HANGERS, BRACKETS, RAILS, YOKES, STEMS, CHAINS, ETC., SHALL BE PROVIDED AS NECESSARY TO MOUNT SPECIFIED FIXTURE.
6. REFER TO ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR SPECIFIC DETAILS, ARRANGEMENT, MOUNTING HEIGHTS, CEILING CONSTRUCTION, ETC., COLORS AND FINISHES SHALL BE SELECTED BY THE ARCHITECT.
7. FIXTURES SHALL BE SEISMICALLY SUPPORTED AS REQUIRED BY THE APPLICABLE BUILDING CODE. RECESSED TROFFER STYLE FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE WITH A MINIMUM OF 2 SUPPORTS.
8. WIRE EMERGENCY FIXTURES AND EXIT SIGNS AHEAD OF SWITCHED LEGS.

ELECTRICAL ABBREVIATIONS

A/AMP	AMPERE
AC	ALTERNATING CURRENT
ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPS INTERRUPTING CURRENT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BSMT	BASEMENT
C	CONDUIT
CATV	CABLE TELEVISION
C/B	CIRCUIT BREAKER
CKT	CIRCUIT
COMP	COMPRESSOR
CP	CONDENSATE PUMP
CT	CURRENT TRANSFORMER
CU	CONDENSING UNIT, COPPER
CUH	CABINET UNIT HEATER
°	DEGREE
DIA/Ø	DIAMETER
DN	DOWN
DWG	DRAWING
E/ETR	EXISTING TO REMAIN
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMT	ELECTRIC METALLIC TUBING
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FAHRENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FCU	FAN COIL UNIT
G	GROUND
GFI	GROUND FAULT INTERRUPTER
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HZ	HERTZ
IG	ISOLATED GROUND
IN	INCHES
JB	JUNCTION BOX

KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
MAX	MAXIMUM
MAU	MAKE UP AIR UNIT
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MH	METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT (24 HR)
NR	NEW TO REPLACE EXISTING
NTS	NOT TO SCALE
OH	OVERHEAD
P	POLE
PE	PRIMARY ELECTRICAL SERVICE
PF	POWER FACTOR
PH/Ø	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
RE	REMOVE EXISTING
RGS	RIGID GALVANIZED STEEL CONDUIT
RL	RELOCATE EXISTING
RM	ROOM
RR	REMOVE AND REPLACE ON NEW SURFACE
RTU	ROOFTOP UNIT
SE	SECONDARY ELECTRICAL SERVICE
SPEC	SPECIFICATION
SWBD	SWITCHBOARD
TELE	TELECOMMUNICATIONS/TELEPHONE
TV	TRANSIENT VOLTAGE SURGE SUPPRESSION
TVSS	TELEVISION
T/TX	TRANSFORMER
TYP	TYPICAL
UGT	UNDERGROUND TRENCH
UH	UNIT HEATER
V	VOLTS
VA	VOLT AMPERE
VAC	VOLTS ALTERNATING CURRENT
W	WATT, WIRE
WAP	WIRELESS ACCESS POINT
WG	WIRE GUARD
WP	WEATHERPROOF

MOTOR CIRCUIT SCHEDULE

EQUIPMENT	PANEL	CIRCUIT NUMBER	CIRCUIT BREAKER OCP	# OF POLES	BRANCH CIRCUIT	LOCAL DISC. SWITCH	MOTOR STARTER BY DIV. 26 (UNLESS NOTED OTHERWISE)			LOAD						REMARKS
							SIZE	TYPE	LOCATION	HP	MCA	FLA	FUSE MOP	PHASE	VOLT	
DOA-1	MAIN SWITCHBOARD	-	225 A	3	3#250KCMIL,#4G,3"C	DIV. 23			ROOF	-	193.0 A	181.0 A	225 A	3	208	SEE NOTE 1, 2
CU-1 [MODULE 1]	PANEL 310A	9,11,13	40 A	3	3#6,#10G,1"C				ROOF	-	34.0 A	27.2 A	40 A	3	208	SEE NOTE 2
CU-1 [MODULE 2]	PANEL 310A	15,17,19	40 A	3	3#6,#10G,1"C				ROOF	-	34.0 A	27.2 A	40 A	3	208	SEE NOTE 2
CU-2 [MODULE 1]	PANEL 330B	1,3,5	60 A	3	3#4,#8G,1 1/4"C				ROOF	-	53.0 A	42.4 A	60 A	3	208	SEE NOTE 2
CU-2 [MODULE 2]	PANEL 330B	7,9,11	60 A	3	3#4,#8G,1 1/4"C				ROOF	-	53.0 A	42.4 A	60 A	3	208	SEE NOTE 2
CU-3 [MODULE 1]	PANEL 330B	13,15,17	40 A	3	3#6,#10G,1"C				ROOF	-	34.0 A	27.2 A	40 A	3	208	SEE NOTE 2
CU-3 [MODULE 2]	PANEL 330B	19,21,23	30 A	3	3#8,#10G,3/4"C				ROOF	-	23.0 A	18.4 A	30 A	3	208	SEE NOTE 2
CU-4 [MODULE 1]	PANEL 310A	14,16,18	60 A	3	3#4,#8G,1 1/4"C				ROOF	-	53.0 A	42.4 A	60 A	3	208	SEE NOTE 2
CU-4 [MODULE 2]	PANEL 310A	20,22,24	60 A	3	3#4,#8G,1 1/4"C				ROOF	-	53.0 A	42.4 A	60 A	3	208	SEE NOTE 2
VRV-A,B,D	PANEL 213	2,4	15 A	2	2#12,#12G,3/4"C				SECOND FLOOR	-	9.5 A	7.58 A	15 A	1	208	SEE NOTE 2
VRV-Gx2	PANEL 213	6,8	15 A	2	2#12,#12G,3/4"C				SECOND FLOOR	-	0.5 A	0.4 A	15 A	1	208	SEE NOTE 2
VRV-Gx22,Hx2	PANEL 220	2,4	15 A	2	2#12,#12G,3/4"C				SECOND FLOOR	-	6.3 A	5.04	15 A	1	208	SEE NOTE 2
VRV-Bx2,G	PANEL 232	2,4	15 A	2	2#12,#12G,3/4"C				SECOND FLOOR	-	5.7 A	4.6 A	15 A	1	208	SEE NOTE 2
VRV-A,E,F	PANEL 232	6,8	15 A	2	2#12,#12G,3/4"C				SECOND FLOOR	-	7.2 A	5.8 A	15 A	1	208	SEE NOTE 2
VRV-A,B,C,G	PANEL 232	10,12	15 A	2	2#12,#12G,3/4"C				SECOND FLOOR	-	9.0 A	7.2 A	15 A	1	208	SEE NOTE 2
VRV-Gx10	PANEL 310B	2,4	15 A	2	2#12,#12G,3/4"C				THIRD FLOOR	-	2.5 A	2.0 A	15 A	1	208	SEE NOTE 2
VRV-Gx3,Hx2	PANEL 310B	6,8	15 A	2	2#12,#12G,3/4"C				THIRD FLOOR	-	1.5 A	1.2 A	15 A	1	208	SEE NOTE 2
VRV-Dx2,G,H	PANEL 310B	10,12	15 A	2	2#12,#12G,3/4"C				THIRD FLOOR	-	7.5 A	6.0 A	15 A	1	208	SEE NOTE 2
VRV-A,C,D	PANEL 310B	14,16	15 A	2	2#12,#12G,3/4"C				THIRD FLOOR	-	9.5 A	7.6 A	15 A	1	208	SEE NOTE 2
VRV-A,G,Hx2	PANEL 330B	2,4	15 A	2	2#12,#12G,3/4"C				THIRD FLOOR	-	4.4 A	3.5 A	15 A	1	208	SEE NOTE 2
VRV-E,Gx8,H	PANEL 330B	6,8	15 A	2	2#12,#12G,3/4"C				THIRD FLOOR	-	2.9 A	2.3 A	15 A	1	208	SEE NOTE 2
VRV-A,D,G	PANEL 330B	10,12	15 A	2	2#12,#12G,3/4"C				THIRD FLOOR	-	7.0 A	5.6 A	15 A	1	208	SEE NOTE 2

MOTOR CIRCUIT SCHEDULE NOTES:

1. EC TO CONNECT FEEDER TO THE FACTORY PROVIDED DISCONNECT SWITCH.
2. EC TO PROVIDE ADDITIONAL FIELD MOUNTED EXTERNAL FUSIBLE DISCONNECT SWITCH.

drawing title: ELECTRICAL ABBREVIATIONS, SYMBOLS & NOTES

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	
	1/21/19	

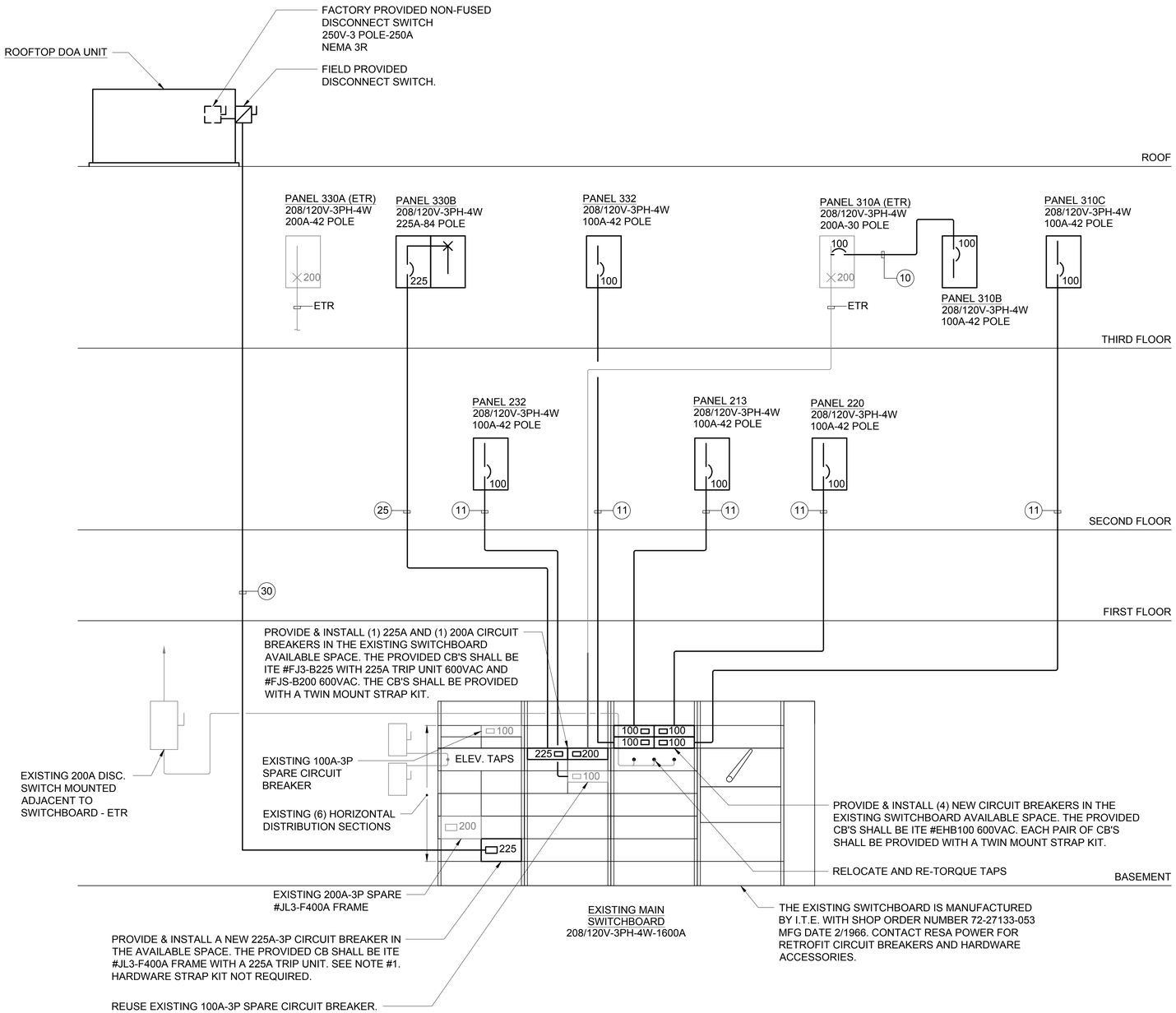
STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by: CONSULTING ENGINEERING SERVICES, INC.
811 MIDDLE STREET
MIDDLETOWN, CT

date: 07/25/18
scale: AS NOTED
drawn by: MAL
approved by: SJM
drawing no.: E2.01

project: WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no.: BI-RD-299



POWER RISER DIAGRAM GENERAL NOTES:

1. TO PROVISION NEW CIRCUIT BREAKERS FOR WORK OUTLINED HEREIN CONTACT RESA POWER 1-800-576-7372.
2. PROVIDE CORING PENETRATIONS AT ALL FLOORS AND WALLS. RATED WALL PENETRATIONS SHALL BE SEALED WITH MINIMUM 2 HOUR RATED APPROVED FIRESTOP MATERIAL. REFER TO A9.01 AND A9.02 FOR DETAILS.

1 PARTIAL ONE-LINE POWER RISER DIAGRAM
SCALE:NO SCALE

THREE PHASE COPPER FEEDER SCHEDULE

CIRCUIT SYMBOL	CONDUCTORS (3 PH, 3W) WITH GROUND	CONDUIT SIZE	CONDUCTORS (3 PH, 4W)	CONDUIT SIZE	OVERCURRENT RATING
5	3#6 & 1#10G	3/4"	4#6 & 1#10G	1"	50A
6	3#4 & 1#10G	1"	4#4 & 1#10G	1 1/4"	60A
7	3#4 & 1#8G	1"	4#4 & 1#8G	1 1/4"	70A
8	3#3 & 1#8G	1 1/4"	4#3 & 1#8G	1 1/4"	80A
9	3#2 & 1#8G	1 1/4"	4#2 & 1#8G	1 1/4"	90A
10	3#1 & 1#8G	1 1/2"	4#1 & 1#8G	1 1/2"	100A
11	3#2 & 1#6G	1 1/4"	4#2 & 1#6G	1 1/4"	110A
12	3#1 & 1#6G	1 1/2"	4#1 & 1#6G	1 1/2"	125A
15	3#1/0 & 1#6G	1 1/2"	4#1/0 & 1#6G	2"	150A
17	3#2/0 & 1#6G	2"	4#2/0 & 1#6G	2"	175A
20	3#3/0 & 1#6G	2"	4#3/0 & 1#6G	2"	200A
22	3#4/0 & 1#4G	2"	4#4/0 & 1#4G	2 1/2"	225A
25	3#250KCMIL & 1#4G	2 1/2"	4#250KCMIL & 1#4G	3"	250A
30	3#350KCMIL & 1#4G	3"	4#350KCMIL & 1#4G	3"	300A
35	3#500KCMIL & 1#3G	3"	4#500KCMIL & 1#3G	4"	350A
40	3#600KCMIL & 1#3G	3"	4#600KCMIL & 1#3G	4"	400A
45	2 SETS OF: 3#4/0+1#2G	(2) 2"	2 SETS OF: 4#4/0+1#2G	(2) 3"	450A
50	2 SETS OF: 3#250KCMIL+1#2G	(2) 2-1/2"	2 SETS OF: 4#250KCMIL+1#2G	(2) 3"	500A
60	2 SETS OF: 3#350KCMIL+1#1G	(2) 3"	2 SETS OF: 4#350KCMIL+1#1G	(2) 3"	600A
70	2 SETS OF: 3#500KCMIL+1#1/0G	(2) 3"	2 SETS OF: 4#500KCMIL+1#1/0G	(2) 4"	700A
80	2 SETS OF: 3#600KCMIL+1#1/0G	(2) 3"	2 SETS OF: 4#600KCMIL+1#1/0G	(2) 4"	800A
90	3 SETS OF: 3#350KCMIL+1#2/0G	(3) 3"	3 SETS OF: 4#350KCMIL+1#2/0G	(3) 3"	900A
100	3 SETS OF: 3#400KCMIL+1#2/0G	(3) 3"	3 SETS OF: 4#400KCMIL+1#2/0G	(3) 4"	1000A
120	4 SETS OF: 3#350KCMIL+1#3/0G	(4) 3"	4 SETS OF: 4#350KCMIL+1#3/0G	(4) 4"	1200A
160	4 SETS OF: 3#600KCMIL+1#4/0G	(4) 3"	4 SETS OF: 4#600KCMIL+1#4/0G	(4) 4"	1600A
200	5 SETS OF: 3#600KCMIL+1#250KCMIL(G)	(5) 3"	5 SETS OF: 4#600KCMIL+1#250KCMIL(G)	(5) 4"	2000A
250	6 SETS OF: 3#600KCMIL+1#350KCMIL(G)	(6) 3"	6 SETS OF: 4#600KCMIL+1#350KCMIL(G)	(6) 4"	2500A
300	8 SETS OF: 3#500KCMIL+1#500KCMIL(G)	(8) 3"	8 SETS OF: 4#500KCMIL+1#500KCMIL(G)	(8) 4"	3000A

NOTES:

1. UNLESS OTHERWISE INDICATED, CONDUCTOR SIZING SHALL MATCH THE SIZE INDICATED ABOVE FOR THE APPLICABLE OVERCURRENT DEVICE. PROVIDE LARGER CONDUCTORS AND CONDUIT WHERE INDICATED, OR AS REQUIRED BY CODE.
2. CONDUIT SIZES IN THIS TABLE REFLECT THE REQUIREMENTS OF NEC INFORMATIVE ANNEX "C", TABLE C.1.
3. PROVIDE A 4-WIRE CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL.
4. REFER TO PANELBOARD SCHEDULES AND MOTOR CIRCUIT SCHEDULE (WHERE APPLICABLE) FOR CONDUCTOR AND CONDUIT SIZE REQUIREMENTS FOR OTHER MOTOR LOADS NOT SHOWN ON ONE LINE DIAGRAM.
5. CONDUCTOR SIZES ARE BASED ON 60°C WHERE AMPACITY IS LESS THAN OR EQUAL TO 100A AND 75°C WHERE AMPACITY IS GREATER THAN 100A. ALL EQUIPMENT AND CONDUCTOR TERMINATIONS CONNECTED TO WIRES SHALL MATCH THESE RATINGS.
6. REFER TO SPECIFICATIONS FOR ADDITIONAL ELECTRICAL CONDUCTOR REQUIREMENTS.

ELECTRICAL SERVICE CALCULATION

CALCULATED IN ACCORDANCE WITH NEC ARTICLE 220.87:
EXISTING MAXIMUM ELECTRICAL DEMAND RECORDED IN AUGUST/SEPTEMBER OF 2015: 232.0 kW
EXISTING MAXIMUM DEMAND CALCULATED AT 125% = 232.0 X 1.25 = 290 kW
NEW LOAD TO THE BUILDING:
DOA - 55.60 kW
CONDENSING UNITS - 98.00 kW
VRV UNITS - 12.30 kW

TOTAL CALCULATED LOAD = 455.90 kW
455900 / .90 PF = 506555 kVA / 360 = 1407 AMPERES

drawing title: ELECTRICAL RISER DIAGRAM

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
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STATE OF CONNECTICUT
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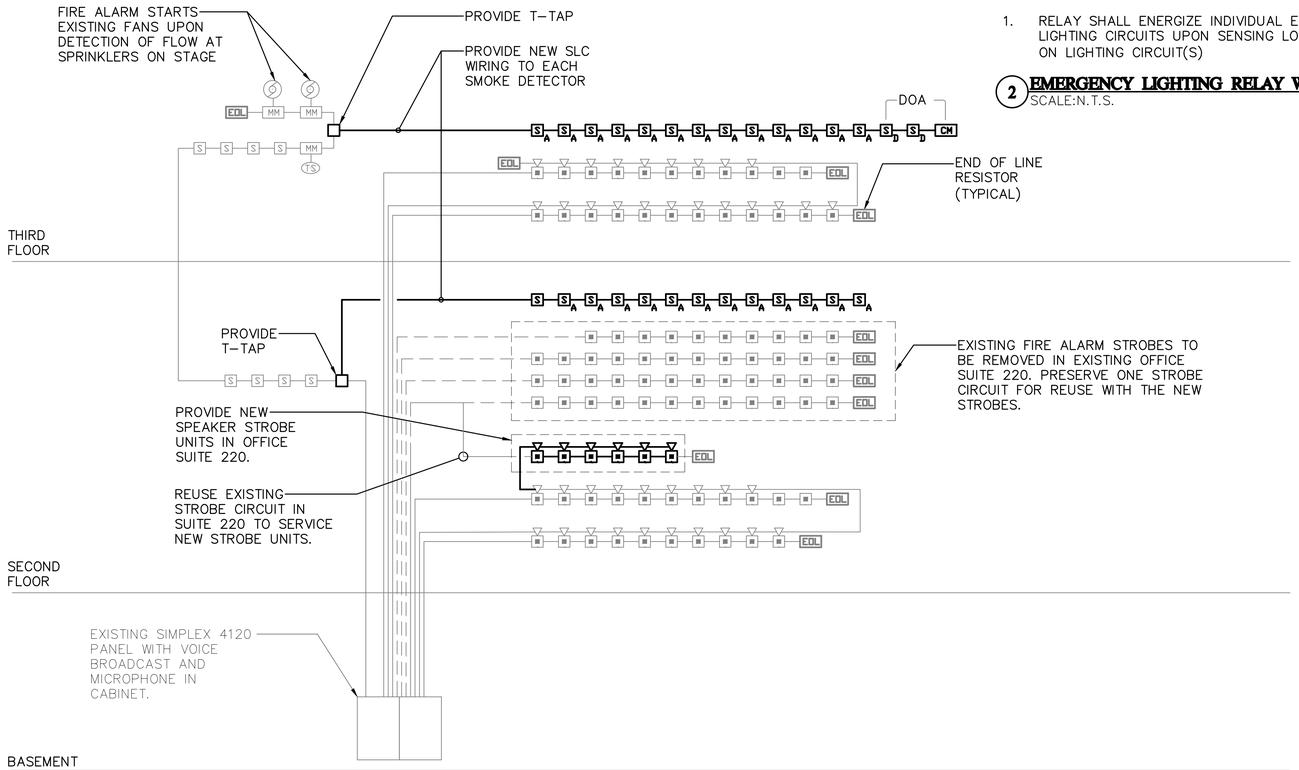
811 MIDDLE STREET
MIDDLETOWN, CT

date: 07/25/18
scale: AS NOTED
drawn by: MAL
approved by: SJM
drawing no.: **E2.02**

project: WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no.: BI-RD-299



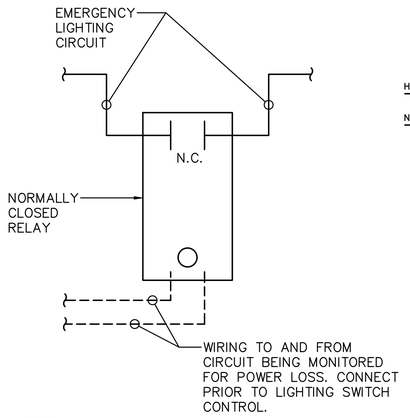
1 FIRE ALARM RISER DIAGRAM
SCALE:N.T.S.

GENERAL NOTES – FIRE ALARM SYSTEM:

1. EXISTING SIMPLEX 4100 SYSTEM TO BE REUSED
2. ALL EQUIPMENT, WIRING, MISC MATERIALS, PROGRAMMING, ACCEPTANCE TESTING SHOULD BE PERFORMED UNDER THIS CONTRACT.
3. BASE BID WORK WILL REQUIRE A CPU/BACKPLANE UPGRADE AND IDNET2+2 250 POINT 4 LOOP MODULE INSTALLED WITHIN THE CONTROL PANEL.
4. THE RISER DIAGRAM DEPICTS BASE BID REQUIREMENTS, REFER TO SIMPLEX GRINNELL TECHNICAL SUPPORT.
5. THE EC SHALL UTILIZE SIMPLEX GRINNELL FOR A TURNKEY SYSTEM INSTALLATION. CONTACT RICHARD BAKER AT SIMPLEX GRINNELL 860-602-3200. ALL COSTS RELATED TO FIRE ALARM SYSTEM IMPROVEMENTS SHALL BE CARRIED UNDER THIS CONTRACT.
6. BASEMENT AND FIRST FLOOR PERIPHERAL DEVICES ARE NOT INDICATED ON THIS RISER DIAGRAM.

BASE BID REQUIREMENTS:

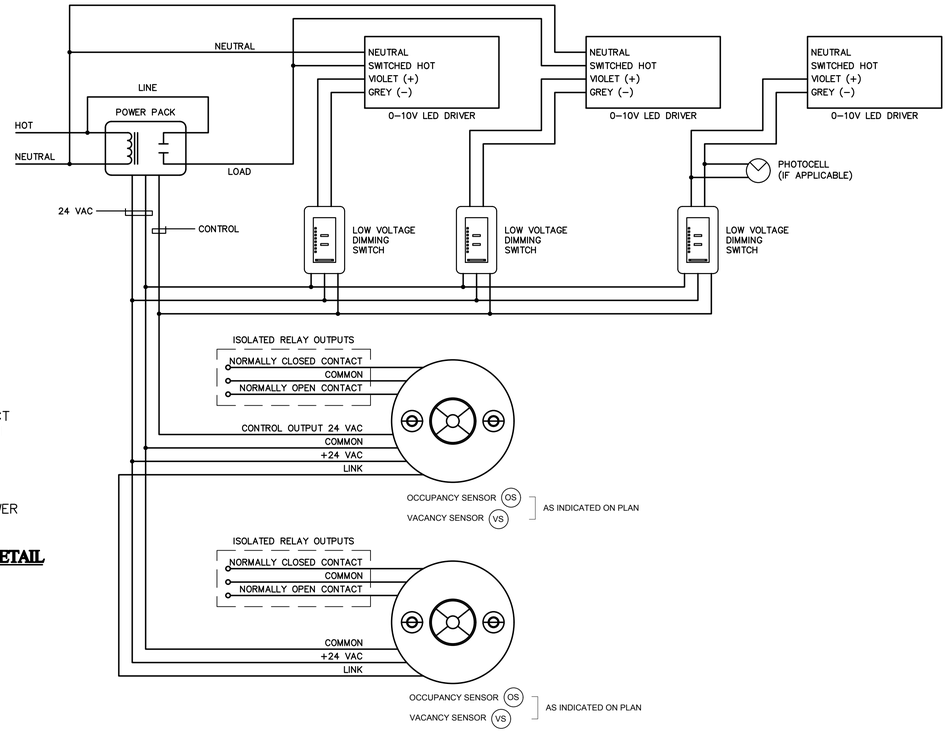
CONVERT FULL SECOND AND THIRD FLOOR SMOKE DETECTORS, PULL STATIONS, AND DUCT SMOKE DETECTOR INFRASTRUCTURE TO ADDRESSABLE CONFIGURATION, INSTALL (2) DUCT SMOKE DETECTORS AND SHUT DOWN MODULE FOR DOA. A TOTAL OF 119 POINTS OF EXISTING EQUIPMENT SHALL BE CONVERTED TO ADDRESSABLE WITH NEW SMOKE DETECTORS. EQUIPMENT TO REMAIN SHALL BE PROVIDED WITH MONITOR MODULES. SIMPLEX GRINNELL REFERENCE #129424481



NOTE:

1. RELAY SHALL ENERGIZE INDIVIDUAL EMERGENCY LIGHTING CIRCUITS UPON SENSING LOSS OF POWER ON LIGHTING CIRCUIT(S)

2 EMERGENCY LIGHTING RELAY WIRING DETAIL
SCALE:N.T.S.



NOTES:

1. REFER TO MANUFACTURERS WIRING DIAGRAM FOR EXACT WIRING DETAIL.
2. NO MORE THAN EIGHT SENSORS TO ONE POWER PACK.
3. PROVIDE LOW VOLTAGE MANUAL ON DIMMER SWITCHES WITH MOUNTING PLATE AND DECORA COVER PLATE TO MATCH NEW SWITCH PLATES.
4. SET SENSOR TO 'VACANCY' OR 'OCCUPANCY' OPERATION.
5. ALL SWITCHES CONTROL ON/OFF OPERATION.
6. TYPICAL FOR CONFERENCE ROOM AND ROOMS WITH TWO SEPARATE DIMMED LOADS.

TYPICAL SPECIFICATION

CEILING MOUNTED OCCUPANCY SENSOR SHALL BE – DOUGLAS LIGHTING CONTROLS MODEL WVRSDD1-R-N

POWER PACKS SHALL BE – DOUGLAS LIGHTING CONTROLS MODEL WP-PP20-D

LOW VOLTAGE DIMMER SHALL BE – DOUGLAS LIGHTING CONTROLS MODEL WRD-8701

PHOTOCELL SHALL BE – DOUGLAS LIGHTING CONTROLS MODEL WPC-5700

3 STANDALONE OCCUPANCY/VACANCY SENSOR/PHOTOCELL WIRING SCHEMATIC
SCALE:N.T.S.

drawing title
ELECTRICAL DETAILS

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18 5/23/18 7/25/18 1/21/19	CONSTRUCTION DOCUMENTS

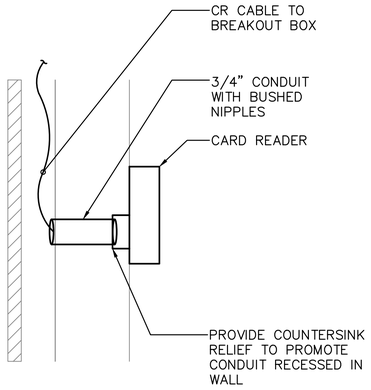
STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
CONSULTING ENGINEERING SERVICES, INC.
811 MIDDLE STREET
MIDDLETOWN, CT

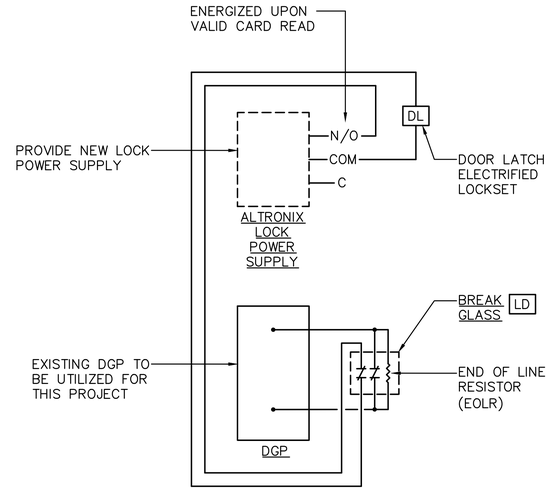
date 07/25/18
scale AS NOTED
drawn by MAL
approved by SJM
drawing no. E3.00

project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no. BI-RD-299



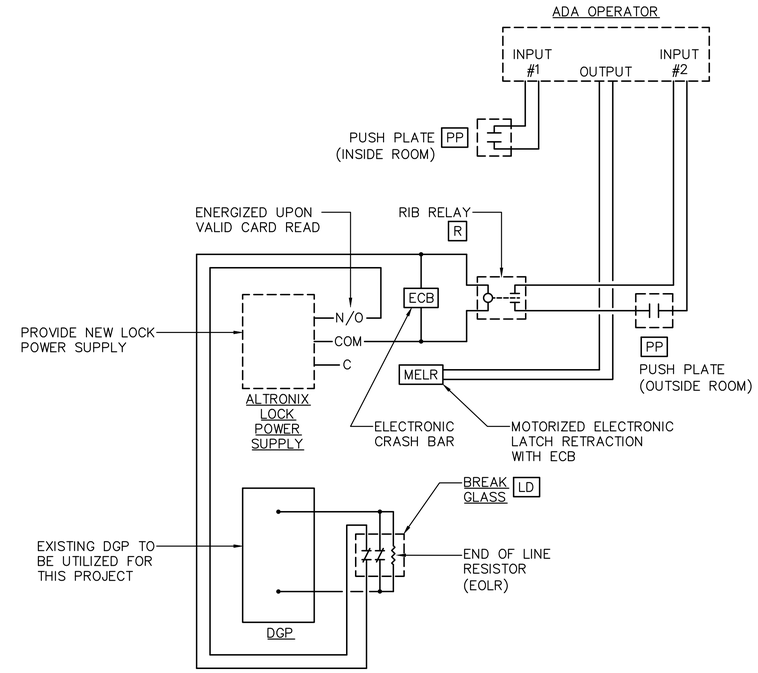
4 CARD READER MOUNTING DETAIL
SCALE:N.T.S.



SEQUENCE OF OPERATION:

1. NORMAL STATE – BREAK GLASS CIRCUIT CLOSED, POWER TO DL NOT SUPPLIED BY ALTRONIX POWER SUPPLY AT THIS TIME
2. ACCESS REQUEST – VALID CARD READ SHALL ENERGIZE THE DL COMPONENT TO ALLOW ACCESS INTO THE ROOM
3. UPON GLASS BREAK / LOCK DOWN ACTIVATION – CONTACTS BREAK TO INTERRUPT POWER TO THE DL OPERATOR TO BLOCK ENTRY INTO THE ROOM.
4. UPON GLASS BREAK / LOCK DOWN ACTIVATION – CONTACTS MAKE OR BREAK TO SEND A SIGNAL TO THE DATA GATHERING PANEL THAT A LOCAL LOCKDOWN ACTIVATION HAS BEEN INITIATED AND THE SYSTEM SENDS A SIGNAL TO THE LOCAL POLICE DEPARTMENT.

2 NON-ADA ACCESS CONTROL WITH LOCK DOWN CIRCUIT
SCALE:N.T.S.



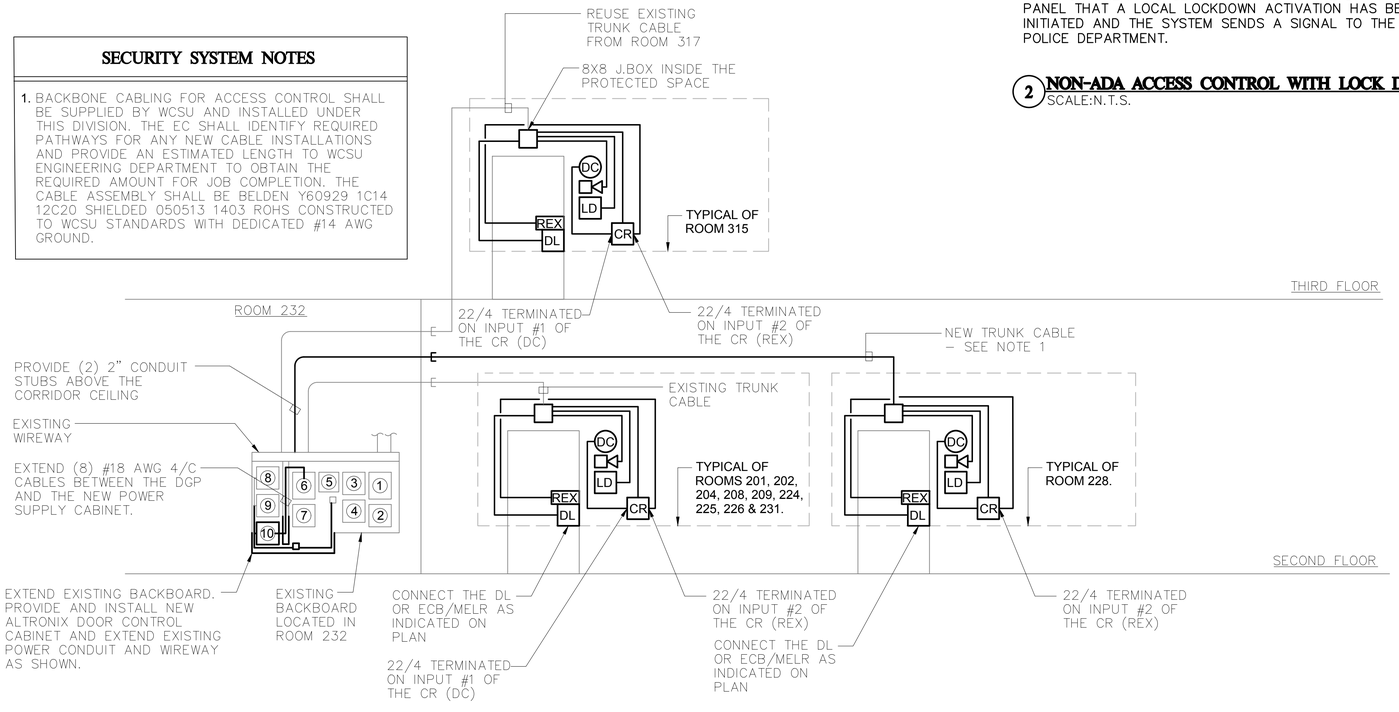
SEQUENCE OF OPERATION:

1. NORMAL STATE – BREAK GLASS CIRCUIT CLOSED, POWER TO ECB NOT SUPPLIED BY ALTRONIX POWER SUPPLY AT THIS TIME
2. ACCESS REQUEST – VALID CARD READ SHALL ENERGIZE THE ECB COMPONENT TO ALLOW ACCESS INTO THE ROOM
3. UPON SUCCESSFUL ACCESS REQUEST THE RIB RELAY SHALL BE ENERGIZED TO MAKE AND ALLOW THE EXTERNAL PUSH PLATE TO ACTIVATE THE ADA DOOR OPERATOR FOR INGRESS TO THE ROOM
4. THE INTERNAL PUSH PLATE FOR THE ADA OPERATOR SHALL ALWAYS ALLOW EGRESS FROM THE ROOM
5. INGRESS OR EGRESS FUNCTIONS ALLOWED TO THE ADA OPERATOR SHALL INITIATE THE MELR TO FUNCTION WITHIN THE ECB
6. UPON GLASS BREAK / LOCK DOWN ACTIVATION – CONTACTS BREAK TO INTERRUPT POWER TO THE ECB AND RIB RELAY / ADA OPERATOR TO BLOCK ENTRY INTO THE ROOM.
7. UPON GLASS BREAK / LOCK DOWN ACTIVATION – CONTACTS MAKE OR BREAK TO SEND A SIGNAL TO THE DATA GATHERING PANEL THAT A LOCAL LOCKDOWN ACTIVATION HAS BEEN INITIATED AND THE SYSTEM SENDS A SIGNAL TO THE LOCAL POLICE DEPARTMENT.

3 ADA ACCESS CONTROL WITH LOCK DOWN CIRCUIT
SCALE:N.T.S.

SECURITY SYSTEM NOTES

1. BACKBONE CABLING FOR ACCESS CONTROL SHALL BE SUPPLIED BY WCSU AND INSTALLED UNDER THIS DIVISION. THE EC SHALL IDENTIFY REQUIRED PATHWAYS FOR ANY NEW CABLE INSTALLATIONS AND PROVIDE AN ESTIMATED LENGTH TO WCSU ENGINEERING DEPARTMENT TO OBTAIN THE REQUIRED AMOUNT FOR JOB COMPLETION. THE CABLE ASSEMBLY SHALL BE BELDEN Y60929 1C14 12C20 SHIELDED 050513 1403 ROHS CONSTRUCTED TO WCSU STANDARDS WITH DEDICATED #14 AWG GROUND.



1 SECURITY/ACCESS CONTROL SYSTEM RISER DIAGRAM
SCALE:N.T.S.

drawing title: ELECTRICAL DETAILS

REVISIONS

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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by: CONSULTING ENGINEERING SERVICES, INC.
811 MIDDLE STREET
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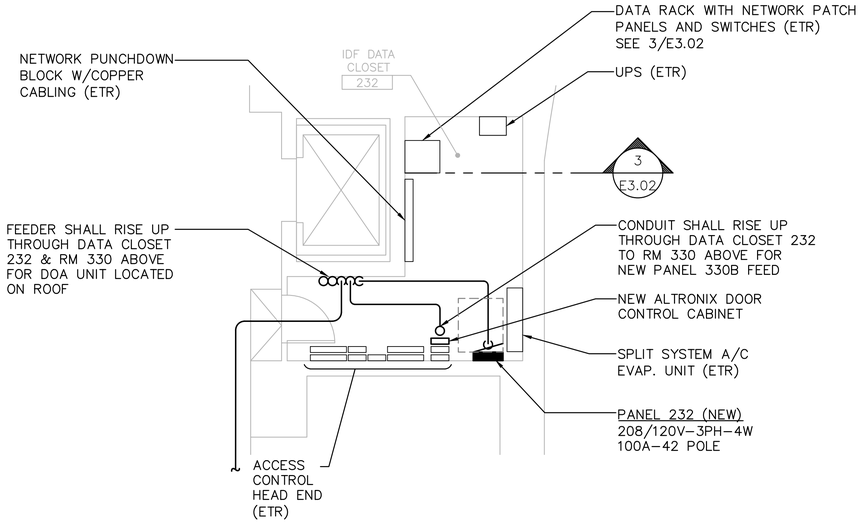
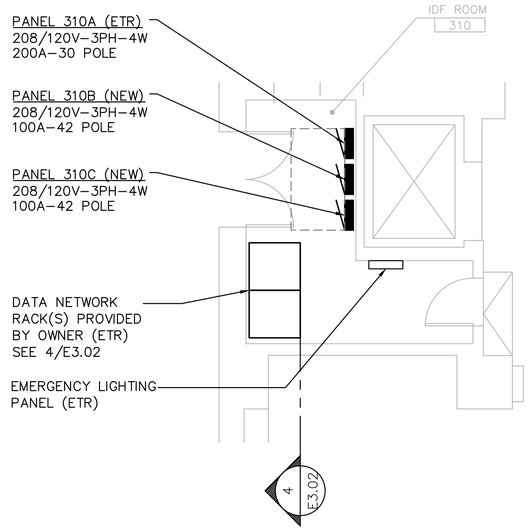
project: WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

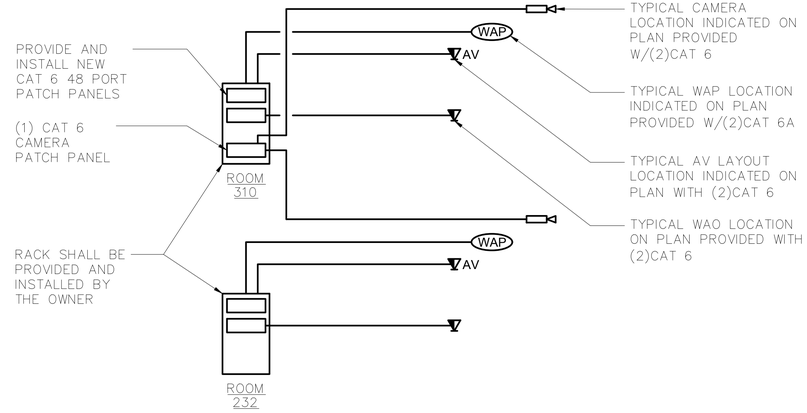
CAD no.
project no.: BI-RD-299



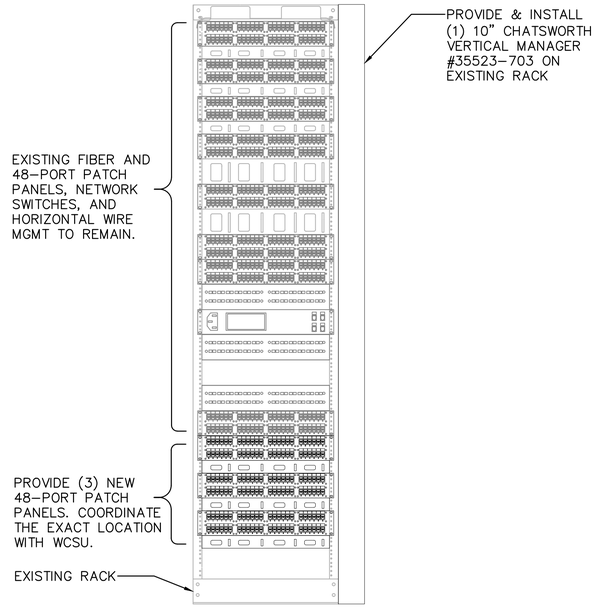
1 SECOND FLOOR IT ROOM 232 PART PLAN
SCALE: 1/4"=1'-0"



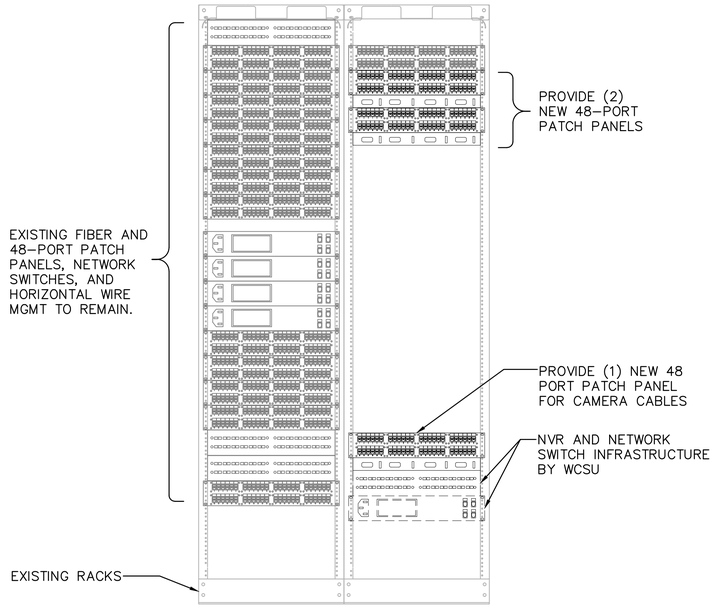
2 THIRD FLOOR IT ROOM 310 PART PLAN
SCALE: 1/4"=1'-0"



5 DATA NETWORK RISER DIAGRAM
SCALE:N.T.S.



3 SECOND FLOOR IT ROOM 232 RACK FRONT ELEVATION
SCALE:N.T.S.



4 THIRD FLOOR IT ROOM 310 RACK FRONT ELEVATION
SCALE:N.T.S.

DATA NETWORK GENERAL NOTES:

1. ALL DATA CABLING FOR WAO, AV, AND CAMERAS SHALL BE BLUE CAT 6 WITH BLUE JACKS.
2. ALL DATA CABLING FOR WAP INSTALLATIONS SHALL BE WHITE CAT 6A WITH WHITE JACKS.
3. ALL PATCH PANELS IDENTIFIED AS NEW SHALL BE PROVIDED AND INSTALLED UNDER THIS CONTRACT. PROVIDE HUBBELL #HP6-48AU ANGLED TYPE.
4. PATCH PANELS SHALL BE ASSIGNED THE NEXT CORRESPONDING LETTER THAT IS APPROPRIATE FOR THE RACK IN WHICH THEY ARE INSTALLED. EXAMPLE, IF A RACK HAS PATCH PANELS A THROUGH D ANY ADDED PANELS SHALL BE E,F,G, ETC.
5. ALL DATA JACKS SHALL BE BLUE WITH THE FOLLOWING LABELING CONVENTION ASSOCIATED WITH THE PATCH PANEL LETTER DESIGNATION:
   PANEL A PORTS 1-48
   DROP "A1", "A2"
   PANEL B PORTS 1-48
   DROP "B1", "B2"

drawing title: ELECTRICAL DETAILS

REVISIONS

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STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

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811 MIDDLE STREET
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project: WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no.: BI-RD-299

Panel: PANEL 2-5

Location: 2ND FLOOR COORIDOR | Volts: 120/208V | A.I.C. Rating: ETR
Supply From: ETR | Phases: 3 | Mains Type: CU
Mounting: SURFACE | Wires: 4 | Mains Rating: 100 A
Enclosure: NEMA 1 | MLO Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CORR LTG (EXT)	20	1							1	20	CORR LTG (EXT)	2
3	LTG 203 (EXT)	20	1							1	20	AMPLIFIER 206 (EXT)	4
5	LTG 203 (EXT)	20	1							1	20	PROJ SCREEN 206 (EXT)	6
7	RCPT 203 (EXT)	20	1							1	20	RCPT 206 (EXT)	8
9	RCPT 203/204 (EXT)	20	1							1	20	RCPT 206/207/208 (EXT)	10
11	LTG 204 (EXT)	20	1							1	20	LTG 207 (EXT)	12
13	RCPT 204 (EXT)	20	1							1	20	LTG 208 (EXT)	14
15	LTG 205 (EXT)	20	1							1	20	LTG 208 (EXT)	16
17	LTG 205 (EXT)	20	1							1	20	CORR RCPT (EXT)	18
19	LTG 206 (EXT)	20	1							1	20	RCPT 204 (EXT)	20
21	SPACE	-	-							-	-	SPACE	22
23	SPACE	-	-							-	-	SPACE	24
	Phase Load (kVA):												
	Phase Amps:												

Notes:
- EXISTING PANELBOARD TO REMAIN
- SEE NOTE 1
- (EXT) = EXISTING CIRCUIT

Panel: PANEL 206

Location: PROJ. BOOTH 206 | Volts: 120/208V | A.I.C. Rating: ETR
Supply From: ETR | Phases: 3 | Mains Type: CU
Mounting: SURFACE | Wires: 4 | Mains Rating: 100 A
Enclosure: NEMA 1 | MLO Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CEILING LTG (EXT)	20	1							2	20	A/C RM 207 (EXT)	2
3	SPARE	20	1							-	-	-	4
5	RCPT CKT (EXT)	20	1							1	20	A/C RM 202 (EXT)	6
7	RCPT CKT (EXT)	20	1							1	20	A/C RM 208 (EXT)	8
9	SPARE	20	1							2	20	A/C RM 201 (EXT)	10
11	SPARE	20	1							-	-	-	12
13	SPARE	20	1							1	20	A/C CKT (EXT)	14
15	SPARE	20	1							1	20	A/C CKT (EXT)	16
17	SPARE	20	1							1	20	A/C CKT (EXT)	18
19	SPARE	20	1							1	20	A/C CKT (EXT)	20
21	SPARE	20	2							1	30	SPOT LIGHTS CKT (EXT)	22
23	-	-	-							1	30	SPARE	24
	Phase Load (kVA):												
	Phase Amps:												

Notes:
- EXISTING PANELBOARD TO REMAIN
- SEE NOTE 1
- (EXT) = EXISTING CIRCUIT

Panel: PANEL 213

Location: STORAGE 213 | Volts: 120/208V | A.I.C. Rating: 10K
Supply From: MAIN SWITCHBOARD | Phases: 3 | Mains Type: CU
Mounting: SURFACE | Wires: 4 | Mains Rating: 100A
Enclosure: NEMA 1 | MCB Rating: 100A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CLASSROOM 208 RCPT	20	1	0.90	0.79					2	15	VRV-A,B,D	2
3	CLASSROOM 208 RCPT	20	1			0.18	0.79			-	-	-	4
5	CLASSROOM 207 RCPT	20	1					1.08	0.04	2	15	VRV-Gx2	6
7	CLASSROOM 207 RCPT	20	1	0.36	0.04					-	-	-	8
9	WOMEN BR 215 RCPT	20	1			0.18	0.26			2	15	BC-1,1A	10
11	STORAGE 218 RCPT	20	1					0.18	0.26	-	-	-	12
13	OFFICE 222 RCPT	20	1	0.90						1	20	SPARE	14
15	OFFICE 221A RCPT	20	1			1.08				1	20	SPARE	16
17	OFFICE 221 RCPT	20	1					0.72		1	20	SPARE	18
19	OFFICE 221/A,222 LTG	20	1	0.56						1	20	SPARE	20
21	CLASSROOM 206,207 LTG	20	1			0.81				1	20	SPARE	22
23	CORRIDOR 298 RCPT	20	1					0.36		1	20	SPARE	24
25	OFFICE 221 RCPT	20	1	0.72						1	20	SPARE	26
27	OFFICE 221 RCPT	20	1			0.72				1	20	SPARE	28
29	SPARE	20	1							1	20	SPARE	30
31	SPARE	20	1							1	20	SPARE	32
33	SPARE	20	1							1	20	SPARE	34
35	SPARE	20	1							1	20	SPARE	36
37	SPARE	20	1							1	20	SPARE	38
39	SPARE	20	1							1	20	SPARE	40
41	SPARE	20	1							1	20	SPARE	42
	Phase Load (kVA):			4.27		4.01		2.64					
	Phase Amps:			35.6 A		33.4 A		22 A					

Notes:
- NEW PANELBOARD

Panel: PANEL 220

Location: STORAGE 220-4 | Volts: 120/208V | A.I.C. Rating: 10K
Supply From: MAIN SWITCHBOARD | Phases: 3 | Mains Type: CU
Mounting: SURFACE | Wires: 4 | Mains Rating: 100A
Enclosure: NEMA 1 | MCB Rating: 100A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	OFFICE 220-9	20	1	1.08	0.52					2	15	VRV-Gx22,Hx2	2
3	OFFICE 220-8	20	1			1.08	0.52			-	-	-	4
5	OFFICE 220-7	20	1					1.08	1.80	1	20	SUITE 220 COOR. RCPT	6
7	OFFICE 220-5	20	1	1.08	0.98					1	20	CORRIDOR 220 LTG	8
9	OFFICE 220-3	20	1			1.08	0.81			1	20	OFFICE SUITE 220 LTG	10
11	OFFICE 220-2	20	1					0.81	0.00	1	20	OFFICE SUITE 220 LTG	12
13	OFFICE 220-1	20	1	1.08	0.00					1	20	SPARE	14
15	OFFICE 220-20	20	1			1.08	0.00			1	20	SPARE	16
17	OFFICE 220-21	20	1					1.08	0.00	1	20	SPARE	18
19	OFFICE 220-22	20	1	1.08	0.00					1	20	SPARE	20
21	OFFICE 220-23	20	1			1.08	0.00			1	20	SPARE	22
23	OFFICE 220-24	20	1					1.08	0.00	1	20	SPARE	24
25	OFFICE 220-25	20	1	1.08	0.00					1	20	SPARE	26
27	OFFICE 220-19	20	1			1.08	0.00			1	20	SPARE	28
29	OFFICE 220-18	20	1					1.08	0.00	1	20	SPARE	30
31	OFFICE 220-17	20	1	1.08	0.00					1	20	SPARE	32
33	OFFICE 220-16	20	1			1.08	0.00			1	20	SPARE	34
35	OFFICE 220-15	20	1					1.08	0.00	1	20	SPARE	36
37	OFFICE 220-12	20	1	1.08	0.00					1	20	SPARE	38
39	OFFICE 220-11	20	1			1.08	0.00			1	20	SPARE	40
41	OFFICE 220-10	20	1					1.08	0.00	1	20	SPARE	42
	Phase Load (kVA):			9.06		8.89		9.09					
	Phase Amps:			75.5 A		74.1 A		75.8 A					

Notes:
- NEW PANELBOARD

Panel: PANEL 232

Location: IDF CLOSET 232 | Volts: 120/208V | A.I.C. Rating: 10K
Supply From: MAIN SWITCHBOARD | Phases: 3 | Mains Type: CU
Mounting: SURFACE | Wires: 4 | Mains Rating: 100A
Enclosure: NEMA 1 | MCB Rating: 100A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CLASSROOM 201 RCPT	20	1	0.36	0.48					2	15	VRV-Bx2,G	2
3	CLASSROOM 201 RCPT	20	1			1.08	0.48			-	-	-	4
5	CLASSROOM 202 RCPT	20	1					0.36	0.60	2	15	VRV-A,E,F	6
7	CLASSROOM 202 RCPT	20	1	1.08	0.60					-	-	-	8
9	CLASSROOM 204 RCPT	20	1			0.36	0.75			2	15	VRV-A,B,C,G	10
11	CLASSROOM 204 RCPT	20	1					0.90	0.75	-	-	-	12
13	CLASSROOM 231 RCPT	20	1	0.90	0.14					2	15	BC-2	14
15	CLASSROOM 231 RCPT	20	1			0.36	0.14			-	-	-	16
17	NURSING LAB 228 RCPT	20	1					0.36	1.26	1	20	OFFICE 223 RCPT	18
19	NURSING LAB 228 RCPT	20	1	0.90	0.90					1	20	NURSING LAB 224 RCPT	20
21	NURSING LAB 226 RCPT	20	1			0.90	0.50			1	20	TOLOSCOPE 224 RCPT	22
23	NURSING LAB 226 RCPT	20	1					0.36	0.50	1	20	TOLOSCOPE 224 RCPT	24
25	MEN BR 230 RCPT	20	1	0.18	0.50					1	20	TOLOSCOPE 226 RCPT	26
27	NURSING LAB 225 RCPT	20	1			0.36	0.00			1	20	SPARE	28
29	NURSING LAB 225 RCPT	20	1					0.90	0.00	1	20	SPARE	30
31	NURSING LAB 224 RCP	20	1	1.08	0.00					1	20	SPARE	32
33	STORAGE 227 RCPT	20	1			0.18	0.00			1	20	SPARE	34
35	CORRIDOR 298B RCPT	20	1					0.00	0.00	1	20	SPARE	36
37	2ND FLOOR LTG	20	1	0.84	0.00					1	20	SPARE	38
39	2ND FLOOR LTG	20	1			1.16	0.00			1	20	SPARE	40
41	RM 201,202,204 LTG	20	1					0.98	0.00	1	20	SPARE	42
	Phase Load (kVA):			7.95		6.26		6.97					
	Phase Amps:			66.3 A		52.2 A		58.1 A					

Notes:
- NEW PANELBOARD

Panel: PANEL 301

Location: ROOM 301 | Volts: 208V | A.I.C. Rating: ETR
Supply From: ETR | Phases: 1 | Mains Type: ETR
Mounting: RECESSED | Wires: 3 | Mains Rating: 125 A
Enclosure: NEMA 1 | MLO Rating: 125 A

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	FLUSH CARTS CKT (EXT)	20	1					1	20	PLUGMOLD CKT (EXT)	2
3	LTG CKT (EXT)	20	1					1	20	PLUGMOLD CKT (EXT)	4
5	WALL RCPT #1 (EXT)	20	1					1	20	PLUGMOLD CKT (EXT)	6
7	WALL RCPT #3 (EXT)	20	1					1	20	PLUGMOLD CKT (EXT)	8
9	WALL RCPT CKT (EXT)	20	1					1	20	PROJECTOR RCPT (EXT)	10
11	WALL RCPT #5 (EXT)	20	1					1	20	ATU RCPT (EXT)	12
13	WALL RCPT #7 (EXT)	20	1					1	20	SCREEN CKT (EXT)	14
15	WALL/FLOOR RCPT #9 (EXT)	20	1					1	20	PLUGMOLD CKT (EXT)	16
17	WINDOW AC RCPT (EXT)	20	1					1	20	ALARM RCPT (EXT)	18
19	SPACE	-	-					-	-	SPACE	20
	Phase Load (kVA):			0.00		0.00					
	Phase Amps:			0 A		0 A					

Notes:
- EXISTING PANELBOARD TO REMAIN
- SEE NOTE 1
- (EXT) = EXISTING CIRCUIT

Panel: PANEL 302

Location: ROOM 302 | Volts: 208V | A.I.C. Rating: ETR
Supply From: ETR | Phases: 1 | Mains Type: ETR
Mounting: RECESSED | Wires: 3 | Mains Rating: ETR
Enclosure: NEMA 1 | MLO Rating: ETR

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	COMPUTER RCPT (EXT)	20	1					1	20	COMPUTER RCPT (EXT)	2
3	COMPUTER RCPT (EXT)	20	1					1	20	COMPUTER RCPT (EXT)	4
5	SPARE	20	1					1	20	COMPUTER RCPT (EXT)	6
7	SPARE	20	1					1	20	COMPUTER RCPT (EXT)	8
9	SPARE	20	1					1	20	COMPUTER RCPT (EXT)	10
11	COMPUTER RCPT (EXT)	20	1					1	20	SPARE	12
13	SPARE	20	1					1	20	SPARE	14
15	SPARE	20	1					1	20	SPARE	16
17	SPARE	20	1					1	20	SPARE	18
19	SPARE	20	1					1	20	SPARE	20
21	SPARE	20	1					1	20	SPARE	22
23	SPARE	20	1					1	20	SPARE	24
25	SPARE	20	1					1	20	SPARE	26
27	SPARE	20	1					1	20	SPARE	28
29	SPARE	20	1					1	20	SPARE	30
	Phase Load (kVA):			0.00		0.00					
	Phase Amps:			0 A		0 A					

Notes:
- EXISTING PANELBOARD TO REMAIN
- SEE NOTE 1
- (EXT) = EXISTING CIRCUIT

Panel: PANEL 310A

Location: IDF ROOM 310 | Volts: 120/208V | A.I.C. Rating: ETR
Supply From: MAIN SWITCHBOARD | Phases: 3 | Mains Type: CU
Mounting: SURFACE | Wires: 4 | Mains Rating: 200 A
Enclosure: NEMA 1 | MLO Rating: 200 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE (EXT)	30	2	0.00	0.00					2	30	SPARE (EXT)	2
3	-	-	-			0.00	0.00			-	-	-	4
5	CIRCUIT (EXT)	20	1					0.18	0.18	1	20	CIRCUIT (EXT)	6
7	CIRCUIT (EXT)	20	1	0.54	0.36					1	20	CIRCUIT (EXT)	8
9	CU-1 [MODULE 1]	40	3			3.26	2.10			2	30	CIRCUIT (EXT)	10
11	-	-	-					3.26	2.10	-	-	-	12
13	-	-	-	3.26	5.09					3	60	CU-4 [MODULE 1]	14
15	CU-1 [MODULE 2]	40	3			3.26	5.09			-	-	-	16
17	-	-	-					3.26	5.09	-	-	-	18
19	-	-	-	3.26	5.09					3	60	CU-4 [MODULE 2]	20
21	SPARE	20	1			0.00	5.09			-	-	-	22
23	SPARE	20	1					0.00	5.09	-	-	-	24
25	SPARE	20	1	0.00	1.20					3	100	PANEL 310B	26
27	SPARE	20	1			0.00	1.55			-	-	-	28
29	SPARE	20	1					0.00	0.89	-	-	-	30
	Phase Load (kVA):			18.81		20.36		20.06					
	Phase Amps:			156.8 A		169.7 A		167.2 A					

Notes:
- EXISTING PANELBOARD TO REMAIN
- INSTALL NEW BREAKER IN EXISTING SPACES 9,11,13; 15,17,19; 14,16,18; 20,22,24; & 26,28,30
- (EXT) = EXISTING CIRCUIT

Panel: PANEL 310B

Location: IDF ROOM 310 | Volts: 120/208V | A.I.C. Rating: 10K
Supply From: PANEL 310A | Phases: 3 | Mains Type: CU
Mounting: SURFACE | Wires: 4 | Mains Rating: 100 A
Enclosure: NEMA 1 | MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20	1	0.00	0.14					2	15	BC-CONTROL	2
3	SPARE	20	1			0.00	0.14			-	-	-	4
5	SPARE	20	1					0.00	0.13	2	15	VRV-Gx3,Hx2	6
7	SPARE	20	1	0.00	0.13					-	-	-	8
9	SPARE	20	1			0.00	0.62			2	15	VRV-Dx2,G,H	10
11	SPARE	20	1					0.00	0.62	-	-	-	12
13	SPARE	20	1	0.00	0.79					2	15	VRV-A,C,D	14
15	SPARE	20	1			0.00	0.79			-	-	-	16
17	SPARE	20	1					0.00	0.14	2	15	BC-4	18
19	SPARE	20	1	0.00	0.14					-	-	-	20
21	SPARE	20	1			0.00	0.00			1	20	SPARE	22
23	SPARE	20	1					0.00	0.00	1	20	SPARE	24
25	SPARE	20	1	0.00	0.00					1	20	SPARE	26
27	SPARE	20	1			0.00	0.00			1	20	SPARE	28
29	SPARE	20	1					0.00	0.00	1	20	SPARE	30
31	SPARE	20	1	0.00	0.00					1	20	SPARE	32
33	SPARE	20	1			0.00	0.00			1	20	SPARE	34
35	SPARE	20	1					0.00	0.00	1	20	SPARE	36
37	SPARE	20	1	0.00	0.00					1	20	SPARE	38
39	SPARE	20	1			0.00	0.00			1	20	SPARE	40
41	SPARE	20	1					0.00	0.00	1	20	SPARE	42
	Phase Load (kVA):			1.20		1.55		0.89					
	Phase Amps:			10 A		12.9 A		7.4 A					

Notes:
- NEW PANELBOARD

Panel: PANEL 310C

Location: IDF ROOM 310 | Volts: 120/208V | A.I.C. Rating: 10K
Supply From: MAIN SWITCHBOARD | Phases: 3 | Mains Type: CU
Mounting: SURFACE | Wires: 4 | Mains Rating: 100 A
Enclosure: NEMA 1 | MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	WOMEN'S BR 311 RCPT	20	1	0.18	0.36					1	20	ROOF MAINT. RCPT	2
3	CLASSROOM 314B RCPT	20	1			0.90	0.24			1	20	3RD FLR CORRIDOR RCPT	4
5	CLASSROOM 314B RCPT	20	1					0.72	0.24	1	20	3RD FLR CORRIDOR RCPT	6
7	THIRD FLOOR LTG	20	1	0.50	0.00					1	20	ROOF MAINT. RCPT	8
9	THIRD FLOOR LTG	20	1			0.21	0.00			1	20	SPARE	10
11	SPARE	20	1					0.00	0.00	1	20	SPARE	12
13	SPARE	20	1	0.00	0.00					1	20	SPARE	14
15	SPARE	20	1			0.00	0.00			1	20	SPARE	16
17	SPARE	20	1					0.00	0.00	1	20	SPARE	18
19	SPARE	20	1	0.00	0.00					1	20	SPARE	20
21	SPARE	20	1			0.00	0.00			1	20	SPARE	22
23	SPARE	20	1					0.00	0.00	1	20	SPARE	24
25	SPARE	20	1	0.00	0.00					1	20	SPARE	26
27	SPARE	20	1			0.00	0.00			1	20	SPARE	28
29	SPARE	20	1					0.00	0.00	1	20	SPARE	30
31	SPARE	20	1	0.00	0.00					1	20	SPARE	32
33	SPARE	20	1			0.00	0.00			1	20	SPARE	34
35	SPARE	20	1					0.00	0.00	1	20	SPARE	36
37	SPARE	20	1	0.00	0.00					1	20	SPARE	38
39	SPARE	20	1			0.00	0.00			1	20	SPARE	40
41	SPARE	20	1					0.00	0.00	1	20	SPARE	42
	Phase Load (kVA):			1.04		1.35		0.96					
	Phase Amps:			8.7 A		11.3 A		8 A					

Notes:
- NEW PANELBOARD

Panel: PANEL 317

Location: SUITE 317 | Volts: 208V | A.I.C. Rating: ETR
Supply From: ETR | Phases: 1 | Mains Type: ETR
Mounting: RECESSED | Wires: 3 | Mains Rating: 125 A
Enclosure: NEMA 1 | MLO Rating: 125 A

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	EAST WALL RCPT (EXT)	20	1	0.18	0.18			1	20	TELE POWER CKT (EXT)	2
3	EAST WALL RCPT (EXT)	20	1			0.36	0.36	1	20	NORTH WALL RCPT (EXT)	4
5	EAST WALL RCPT (EXT)	20	1	0.36	0.18			1	20	BULLETIN RCPT (EXT)	6
7	RM 318 RCPT (EXT)	20	1			0.18	0.72	1	20	NORTH WALL RCPT (EXT)	8
9	RM 317 RCPT (EXT)	20	1	0.18	0.36			1	20	RM 317 RCPT (EXT)	10
11	RM 317D RCPT (EXT)	20	1			0.18	0.18	1	20	RM 319 RCPT (EXT)	12
13	RM 317C RCPT (EXT)	20	1	0.36	0.72			1	20	RM 317A/B RCPT (EXT)	14
15	317 EXIT CKT (EXT)	20	1			0.18	0.21	2	15	VRV-Gx10	16
17	SPACE	-	-		0.21			-	-	-	18
19	SPACE	-	-					-	-	SPACE	20
	Phase Load (kVA):			2.73		2.37					
	Phase Amps:			22.8 A		19.8 A					

Notes:
- EXISTING PANELBOARD
- INSTALL NEW BREAKER IN EXISTING SPACES 16 & 18
- (EXT) = EXISTING CIRCUIT

GENERAL NOTES

1. THIS EXISTING PANEL SCHEDULE IS BEING PROVIDED FOR RECORD PURPOSES. THE EC SHALL PROVIDE AS-BUILT MODIFICATIONS TO THIS SCHEDULE THAT WILL UPDATE THE DIRECTORY WITH REGARD TO CIRCUITS THAT HAVE BEEN REMOVED DURING DEMOLITION. NO NEW CIRCUITS SHALL BE CONNECTED TO THIS PANEL.

drawing title
ELECTRICAL
PANELBOARD SCHEDULES

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
	4/16/18	CONSTRUCTION DOCUMENTS
	5/23/18	
	7/25/18	
	1/21/19	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
CONSULTING ENGINEERING SERVICES, INC.
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date 07/25/18
scale AS NOTED
drawn by MAL
approved by SJM
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project
WESTERN CT STATE UNIVERSITY
WHITE HALL
2ND AND 3RD FLOOR RENOVATIONS
DANBURY, CONNECTICUT

CAD no.
project no. BI-RD-299

Panel: PANEL 330A

Location:	ROOM 330				**Volts:**	120/208V			**A.I.C. Rating**	ETR				
Supply From:	ETR				**Phases:**	3			**Mains Type:**	CU				
Mounting:	SURFACE				**Wires:**	4			**Mains Rating:**	100 A				
Enclosure:	NEMA 1								**MLO Rating:**	100 A				

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SATELLITE RACK (EXT)	20	1	0.75	0.75					1	20	SATELLITE RACK (EXT)	2
3	SATELLITE RACK (EXT)	20	1			0.75	0.75			1	20	SATELLITE RACK (EXT)	4
5	SPARE (EXT)	20	2					0.00	0.86	1	20	CONDENSATE PUMP (EXT)	6
7	-	-	-	0.00	0.36					1	20	325B WIREMOLD (EXT)	8
9	SATELLITE RM A/C (EXT)	20	2			1.02	0.36			1	20	325B WIREMOLD (EXT)	10
11		-	-					1.02	0.72	1	20	325B WIREMOLD (EXT)	12
13	SPARE (EXT)	20	1	0.00	0.72					1	20	325B WIREMOLD (EXT)	14
15	SPARE (EXT)	20	1			0.00	0.36			1	20	325B WIREMOLD (EXT)	16
17	SPARE (EXT)	20	1					0.00	0.18	1	20	325B CLOSET RCPT (EXT)	18
19	SPARE (EXT)	20	1	0.00	0.00					1	20	SPARE (EXT)	20
21	SPARE (EXT)	20	1			0.00	0.00			1	20	SPARE (EXT)	22
23	SPARE (EXT)	20	1					0.00	0.00	1	20	SPARE (EXT)	24
25	COMPUTER LAB 316 RCPT	20	1	0.75	0.75					1	20	COMPUTER LAB 316 RCPT	26
27	COMPUTER LAB 316 RCPT	20	1			0.75	0.75			1	20	COMPUTER LAB 316 RCPT	28
29	COMPUTER LAB 316 RCPT	20	1					0.75	0.75	1	20	COMPUTER LAB 316 RCPT	30
31	COMPUTER LAB 316 RCPT	20	1	0.75	0.72					1	20	COMPUTER LAB 316 RCPT	32
33	COMPUTER LAB 316 RCPT	20	1			0.72	0.72			1	20	CONF. RM. 322A RCPT	34
35	CONF. RM. 324 RCPT	20	1					0.72	1.08	1	20	CONF. RM. 322A RCPT	36
37	CONF. RM. 324 RCPT	20	1	0.72	-					-	-	SPACE	38
39	CONF. RM. 324 RCPT	20	1			0.72	0.36			1	20	COMP. STATION 316 RCPT	40
41	SPACE	-	-					-	0.72	1	20	COMP. STATION 316 RCPT	42
	Phase Load (kVA):			6.27		7.26		6.80					
	Phase Amps:			52.3 A		60.5 A		56.7 A					

Notes:	EXISTING PANELBOARD TO REMAIN	(EXT) = EXISTING CIRCUIT
	INSTALL NEW BREAKERS IN EXISTING SPACES 25 THROUGH 37	

Panel: PANEL 330B (Section 1)

Location:	ROOM 330				**Volts:**	120/208V			**A.I.C. Rating**	10K				
Supply From:	MAIN SWITCHBOARD				**Phases:**	3			**Mains Type:**	CU				
Mounting:	SURFACE				**Wires:**	4			**Mains Rating:**	225 A				
Enclosure:	NEMA 1								**MCB Rating:**	225 A				

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CU-2 [MODULE 1]	60	3	5.09	0.36					2	15	VRV-A,G,Hx2	2
3	-	-	-			5.09	0.36			-	-	-	4
5		-	-					5.09	0.25	2	15	VRV-E,Gx8,H	6
7	CU-2 [MODULE 2]	60	3	5.09	0.25					-	-	-	8
9	-	-	-			5.09	0.58			2	15	VRV-A,D,G	10
11	-	-	-					5.09	0.58	-	-	-	12
13	CU-3 [MODULE 1]	40	3	3.17	0.14					2	15	BC-3	14
15	-	-	-			3.17	0.14			-	-	-	16
17	-	-	-					3.17	0.14	2	15	SUB-BC	18
19	CU-3 [MODULE 2]	30	3	2.30	0.14					-	-	-	20
21	-	-	-			2.30	0.00			1	20	SPARE	22
23	-	-	-					2.30	0.00	1	20	SPARE	24
25	SPARE	20	1	0.00	0.00					1	20	SPARE	26
27	SPARE	20	1			0.00	0.00			1	20	SPARE	28
29	SPARE	20	1					0.00	0.00	1	20	SPARE	30
31	SPARE	20	1	0.00	0.00					1	20	SPARE	32
33	SPARE	20	1			0.00	0.00			1	20	SPARE	34
35	SPARE	20	1					0.00	0.00	1	20	SPARE	36
37	SPARE	20	1	0.00	0.00					1	20	SPARE	38
39	SPARE	20	1			0.00	0.00			1	20	SPARE	40
41	SPARE	20	1					0.00	0.00	1	20	SPARE	42

Panel: PANEL 330B (Section 2)

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
43	ROOF MAINT. RCPT	20	1	0.36	0.00					1	20	SPARE	44
45	ROOF MAINT. RCPT	20	1			0.18	0.00			1	20	SPARE	46
47	THIRD FLOOR LTG	20	1					0.84	0.00	1	20	SPARE	48
49	THIRD FLOOR LTG	20	1	0.50	0.18					1	20	MEN 328 RCPT	50
51	THIRD FLOOR LTG	20	1			1.19	0.72			1	20	OFFICE 325A RCPT	52
53	THIRD FLOOR LTG	20	1					0.43	0.72	1	20	OFFICE 325B RCPT	54
55	THIRD FLOOR LTG	20	1	0.32	0.36					1	20	OFFICE 325 RCPT	56
57	THIRD FLOOR LTG	20	1			0.53	0.72			1	20	OFFICE 325C RCPT	58
59	SPARE	20	1					0.00	0.72	1	20	OFFICE 325D RCPT	60
61	SPARE	20	1	0.00	0.72					1	20	OFFICE 329A RCPT	62
63	SPARE	20	1			0.00	0.72			1	20	OFFICE 329B RCPT	64
65	SPARE	20	1					0.00	0.54	1	20	OFFICE 329 RCPT	66
67	SPARE	20	1	0.00	0.72					1	20	OFFICE 329 RCPT	68
69	SPARE	20	1			0.00	0.72			1	20	OFFICE 329C RCPT	70
71	SPARE	20	1					0.00	0.72	1	20	OFFICE 329D RCPT	72
73	SPARE	20	1	0.00	0.00					1	20	3RD FLR COORIDOR RCPT	74
75	SPARE	20	1			0.00	0.00			1	20	SPARE	76
77	SPARE	20	1					0.00	0.00	1	20	SPARE	78
79	SPARE	20	1	0.00	0.00					1	20	SPARE	80
81	SPARE	20	1			0.00	0.00			1	20	SPARE	82
83	SPARE	20	1					0.00	0.00	1	20	SPARE	84
	Phase Load (kVA):			19.69		21.51		20.58					
	Phase Amps:			164.1 A		179.3 A		171.5 A					

Notes:	NEW PANELBOARD

Panel: PANEL 332

Location:	VACANT RAW SPACE 332				**Volts:**	120/208V			**A.I.C. Rating**	10K				
Supply From:	MAIN SWITCHBOARD				**Phases:**	3			**Mains Type:**	CU				
Mounting:	SURFACE				**Wires:**	4			**Mains Rating:**	100A				
Enclosure:	NEMA 1								**MCB Rating:**	100A				

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20	1	0.00	0.00					1	20	SPARE	2
3	SPARE	20	1			0.00	0.00			1	20	SPARE	4
5	SPARE	20	1					0.00	0.00	1	20	SPARE	6
7	SPARE	20	1	0.00	0.00					1	20	SPARE	8
9	SPARE	20	1			0.00	0.00			1	20	SPARE	10
11	SPARE	20	1					0.00	0.00	1	20	SPARE	12
13	SPARE	20	1	0.00	0.00					1	20	SPARE	14
15	SPARE	20	1			0.00	0.00			1	20	SPARE	16
17	SPARE	20	1					0.00	0.00	1	20	SPARE	18
19	SPARE	20	1	0.00	0.00					1	20	SPARE	20
21	SPARE	20	1			0.00	0.00			1	20	SPARE	22
23	SPARE	20	1					0.00	0.00	1	20	SPARE	24
25	SPARE	20	1	0.00	0.00					1	20	SPARE	26
27	SPARE	20	1			0.00	0.00			1	20	SPARE	28
29	SPARE	20	1					0.00	0.00	1	20	SPARE	30
31	SPARE	20	1	0.00	0.00					1	20	SPARE	32
33	SPARE	20	1			0.00	0.00			1	20	SPARE	34
35	SPARE	20	1					0.00	0.00	1	20	SPARE	36
37	SPARE	20	1	0.00	0.00					1	20	SPARE	38
39	SPARE	20	1			0.00	0.00			1	20	SPARE	40
41	SPARE	20	1					0.00	0.00	1	20	SPARE	42
	Phase Load (kVA):			0.00		0.00		0.00					
	Phase Amps:			0 A		0 A		0 A					

Notes:	NEW PANELBOARD	
	PROVIDE FOR FUTURE OFFICE SPACE WITH ESTIMATED LOAD FACTOR OF 5.08W PER SQUARE FOOT TOTALLING 22.1 kVA (61 AMPS)	

Panel: PANEL 3-2

Location:	3RD FLR CORRIDOR				**Volts:**	208V			**A.I.C. Rating**	ETR				
Supply From:	ETR				**Phases:**	1			**Mains Type:**	ETR				
Mounting:	RECESSED				**Wires:**	3			**Mains Rating:**	60 A				
Enclosure:	NEMA 1								**MLO Rating:**	60 A				

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	CORD LTG (EXT)	20	1					1	20	316 RCPT (EXT)	2
3	316 RCPT (EXT)	20	1					1	20	315 LTG (EXT)	4
5	315 RCPT (EXT)	20	1					1	20	315, 316 RCPT (EXT)	6
7	316 RCPT (EXT)	20	1					1	20	HALL RCPT (EXT)	8
9	316 LTG (EXT)	20	1					1	20	315 LTG (EXT)	10
11	316 RCPT (EXT)	20	1					1	15	SPARE (EXT)	12
	Phase Load (kVA):			0.00		0.00					
	Phase Amps:			0 A		0 A					

Notes:	EXISTING PANELBOARD TO REMAIN	(EXT) = EXISTING CIRCUIT
	SEE NOTE 1	

Panel: PANEL 3-5

Location:	3RD FLOOR COORIDOR				**Volts:**	120/208V			**A.I.C. Rating**	ETR				
Supply From:	ETR				**Phases:**	3			**Mains Type:**	CU				
Mounting:	SURFACE				**Wires:**	4			**Mains Rating:**	100 A				
Enclosure:	NEMA 1								**MLO Rating:**	100 A				

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CKT (EXT)	20	1							1	20	CKT (EXT)	2
3	CKT (EXT)	20	1							1	20	CKT (EXT)	4
5	CKT (EXT)	20	1							1	20	CKT (EXT)	6
7	CKT (EXT)	20	1							1	20	CKT (EXT)	8
9	CKT (EXT)	20	1							1	20	CKT (EXT)	10
11	CKT (EXT)	20	1							1	20	CKT (EXT)	12
13	CKT (EXT)	20	1							1	20	CKT (EXT)	14
15	CKT (EXT)	20	1							1	20	CKT (EXT)	16
17	CKT (EXT)	20	1							1	20	CKT (EXT)	18
19	CKT (EXT)	20	1							1	20	CKT (EXT)	20
21	CKT (EXT)	20	1							2	50	PANEL 302 (EXT)	22
23	CKT (EXT)	20	1							-	-	-	24
	Phase Load (kVA):			0.00		0.00		0.00					
	Phase Amps:			0 A		0 A		0 A					

Notes:	EXISTING PANELBOARD TO REMAIN	(EXT) = EXISTING CIRCUIT
	SEE NOTE 1	

GENERAL NOTES

1. THIS EXISTING PANEL SCHEDULE IS BEING PROVIDED FOR RECORD PURPOSES. THE EC SHALL PROVIDE AS-BUILT MODIFICATIONS TO THIS SCHEDULE THAT WILL UPDATE THE DIRECTORY WITH REGARD TO CIRCUITS THAT HAVE BEEN REMOVED DURING DEMOLITION. NO NEW CIRCUITS SHALL BE CONNECTED TO THIS PANEL.

drawing title
ELECTRICAL
PANELBOARD SCHEDULES

REVISIONS

mark	date	description
	8/4/17	SCHEMATIC DESIGN SUBMISSION
	1/15/18	DESIGN DEVELOPMENT SUBMISSION
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	1/21/19	

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CAD no.
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