CODE IMPROVEMENTS TO:

COVENTRY SCHOOLS

FIRE WALL CODE IMPROVEMENTS
CONVENTRY, CONNECTICUT
DAS Number 032-0062 CV Phase 3 of 3

-ISSUED FOR BID-JANUARY 31, 2020



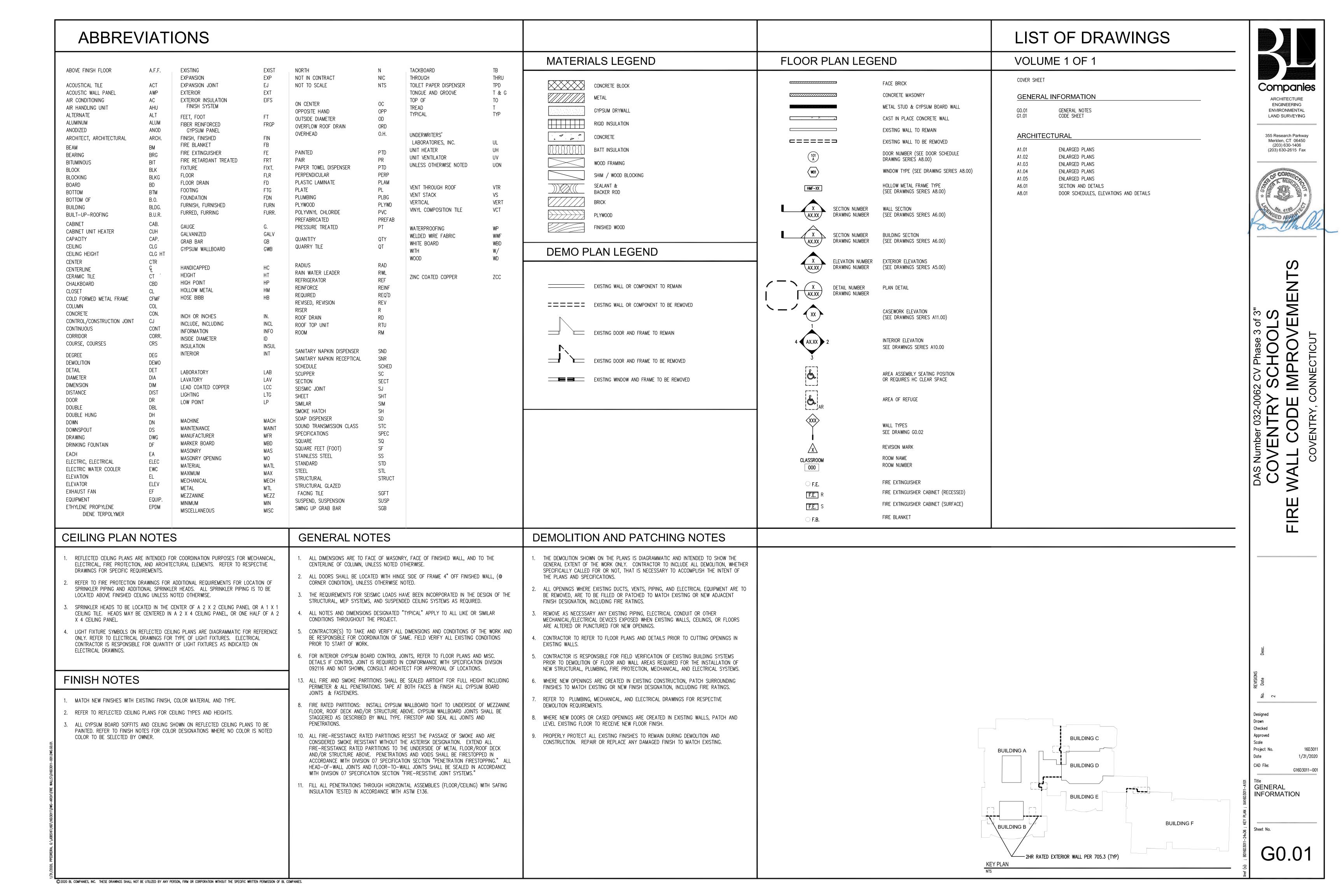
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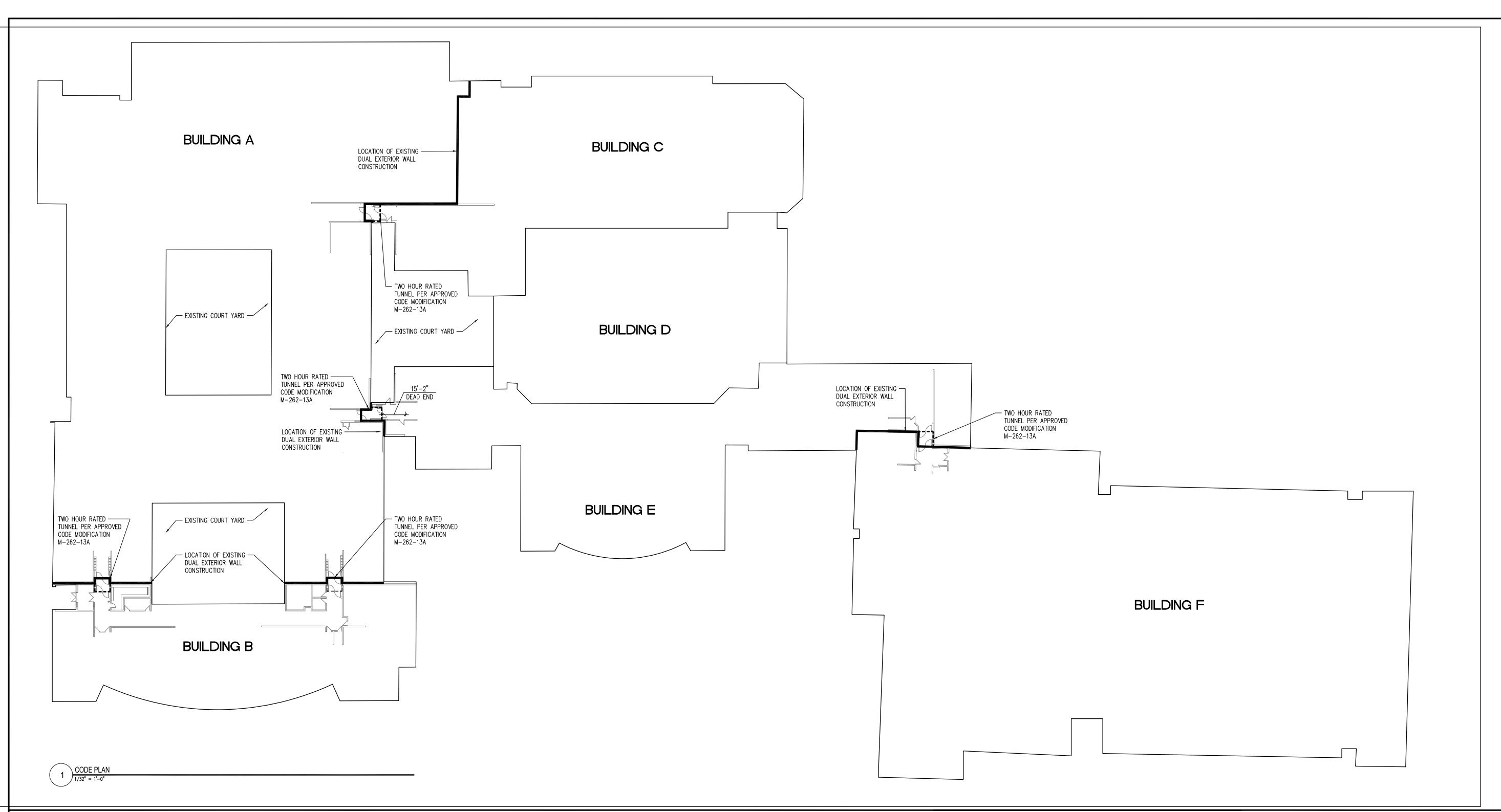
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BL PROJECT No. 16D3011



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CODE INFORMATION

APPLICABLE CODES AND REGULATIONS 2018 CONNECTICUT STATE BUILDING CODE (CSBC): WHICH INCLUDES INTERNATIONAL BUILDING CODE / 2015 (ICC) INTERNATIONAL EXISTING BUILDING CODE / 2015 (IECC) INTERNATIONAL MECHANICAL CODE / 2015 (ICC) INTERNATIONAL PLUMBING CODE / 2015 (ICC) NATIONAL ELECTRIC CODE, NFPA 70 / 2017 (NEC) INTERNATIONAL ENERGY CONSERVATION CODE / 2015 (IECC) ICC/A117.1/ 2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (ANSI) 2018 CONNECTICUT STATE FIRE SAFETY CODE (CSFSC) INTERNATIONAL FIRE CODE / 2015 (ICC) NFPA 101 / 2015 NFPA 1 UNIFORM FIRE CODE DATE OF CONSTRUCTION ORIGINAL HIGH SCHOOL 1960 ORIGINAL MIDDLE SCHOOL 1967 ALTERATIONS AND ADDITIONS IN 1998-2001 APPROVED STATE MODIFICATIONS MOD NUMBER DATE M-262-13A APRIL 2, 2016 ALLOW THE USE OF THE EXISTING TWO ONE-HOUR RATED EXTERIOR MASONRY WALLS WITH TWO-HOUR RATED TUNNEL AND 90 MINUTE FIRE DOORS TO SEPARATE THE BUILDINGS. M-262-13B APRIL 2, 2016 UTILIZE THE APPROVED LANGUAGE OF SECTION 506.1, 5.06.2, 5.06.3 & TABLE 503 OF THE 2005 STATE BUILDING CODE, ALLOWING THE BUILDING AREA TO BE 69,550 SF M-262-13C APRIL 2, 2016

USE GROUP CLASSIFICATION NON-SEPARATED USES E EDUCATIONAL SECTION 305.1 A ASSEMBLY SECTION 303.1 IIB (NON-COMBUSTIBLE) CONSTRUCTION TYPE NOT APPLICABLE. EXISTING BUILDING BUILDING HEIGHT NOT APPLICABLE. EXISTING BUILDING NO AREA INCREASE **BUILDING AREA**

FIRE PROTECTION SYSTEMS

ALTERED PROJECT AREAS SHALL BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.1.1

AUTOMATIC SPRINKLER SYSTEM: EXISTING SPRINKLER SYSTEM SHALL BE ALTERED AS REQUIRED TO PROVIDE PROTECTION FOR RANOVATED AREA IN COMPLIANCE WITH NFPA 13 REQUIREMENTS. PORTABLE FIRE EXTINGUISHERS: WALL MOUNTED 10LB TYPE ABC DRY CHEMICAL PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED AT THE SECURITY OPERATIONS CENTER AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

FIRE ALARM SYSTEM: FIRE DETECTION AND ALARM NOTIFICATION DEVICES IN COMPLIANCE WITH NFPA 72 SHALL BE INSTALLED WITHIN THE RENOVATED AREA.

UTILIZE SECTION 302.2.1 OF THE 2005 STATE BUILDING CODE, NOTE: EXISTING BUILDING IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM. THE RENOVATED AREAS SHALL BE SPRINKLERED

FIRE RESISTANCE RATINGS FIRE RATING STRUCTURAL ELEMENTS (TABLE 601 – 2B CONSTRUCTION) STRUCTURAL FRAME: INCLUDING COLUMNS, GIRDERS, TRUSSES 0 HR* BEARING WALLS: **EXTERIOR** EXTERIOR (BASED ON FIRE SEPARATION DISTANCE - TABLE 602) 1 HR* INTERIOR NON-BEARING WALLS AND PARTITIONS: EXTERIOR (BASED ON FIRE SEPARATION DISTANCE - TABLE 602) 0 HR INTERIOR EXIT ACCESS CORRIDORS 0 HR** ____1 HR___ MIXED USE SEPARATION FLOOR CONSTRUCTION: INCLUDING SUPPORTING BEAMS AND JOISTS 0 HR* INCLUDING SUPPORTING BEAMS AND JOISTS 0 HR*

* EXISTING ELEMENT

** OR NOT LESS THAN RATING REQUIRED BY OTHER SECTIONS OF CODE WORK OF THIS CONTRACT SHALL NOT COMPROMISE OR REDUCE THE FIRE

RESISTANCE RATINGS OF THE ABOVE LISTED BUILDING ELEMENTS. ALL PENETRATIONS THROUGH RATED ELEMENTS AND ASSEMBLIES SHALL BE PROPERLY SEALED/FIRESTOPPED WITH APPROVED MATERIALS AND METHODS AS REQUIRED TO MAINTAIN THE REQUIRED RATINGS AND RESTRICT THE MOVEMENT OF SMOKE.

ACCESSIBILITY

RENOVATIED AREA IS DESIGNED AND SHALL BE CONSTRUCTED FOR ACCESSIBILITY IN COMPLIANCE WITH THE CONNECTICUT STATE BUILDING CODE AND ICC ANSI/A117.1 2009

MEANS OF EGRESS

PROVIDE UNOBSTRUCTED ACCESS FROM EXISTING SPACES TO THE EXISTING EXIT DISCHARGE

INTERIOR WALL AND CEILING FINISHES

VERTICAL EXITS & EXIT PASSAGEWAYS CLASS B EXIT ACCESS CORRIDORS & OTHER EXITWAYS CLASS B ROOMS AND ENCLOSED SPACES NO MINIMUM

NOTE: INTERIOR WALL & CEILING FINISH CLASSIFICATIONS CORRESPOND TO FLAME SPREAD RATINGS DETERMINED BY ASTM E84

CLASS A: FLAME SPREAD 0-25 CLASS B: FLAME SPREAD 26-75 CLASS CI: FLAME SPREAD 76-200

IN ALL CASES THE SMOKE DEVELOPED RATING SHALL NOT EXCEED 450

ALL WALL MOUNTED WOOD EQUIPMENT BACKBOARDS AND WOOD BLOCKING/REINFORCING AT METAL STUD PARTITIONS AND OTHER LOCATIONS SHALL BE FIRE RETARDANT TREATED

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ONNECTICUL IMPRO

Checked Approved Scale Project No.

1/31/2020 CAD File: G16D3011-001

CODE SHEET

Sheet No.

G1.01

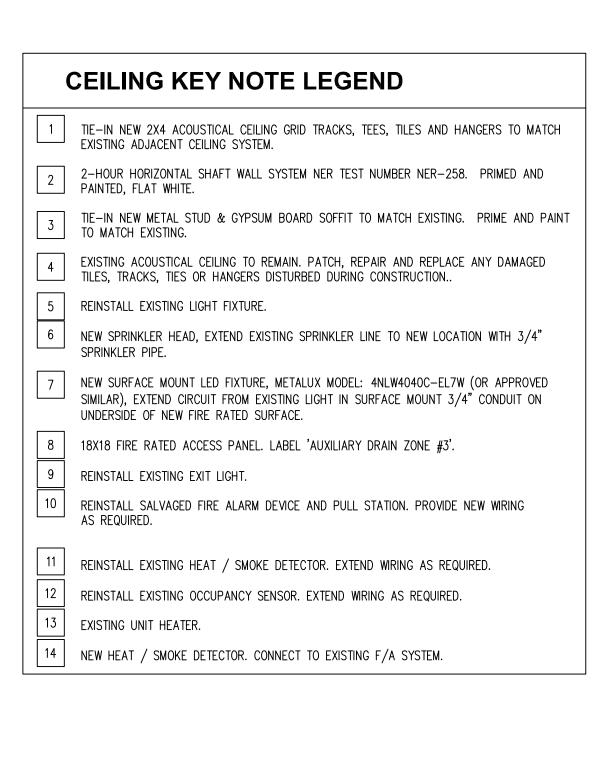
THE MODIFICATION REQUEST ABOVE WERE REQUESTED BY MR CHRISTOPHER LAUX AND APPROVED BY

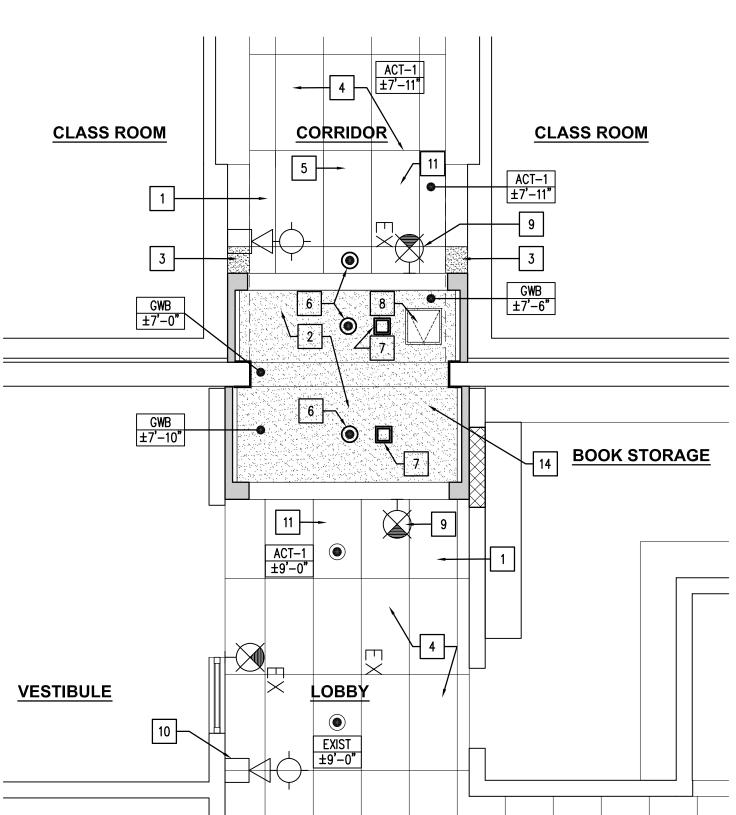
ALLOWING ASSEMBLY ASSEMBLY AREAS USED SOLELY FOR THE

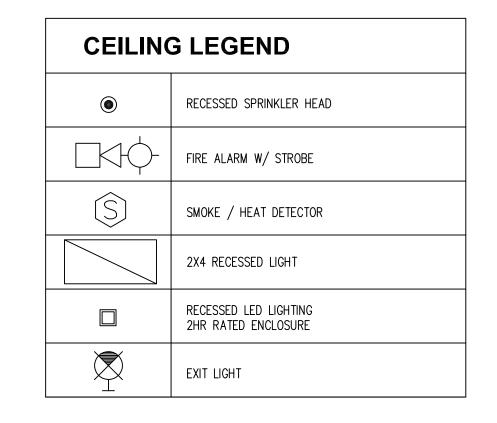
PURPOSES THAT ARE ACCESSORY TO GROUP E OCCUPANCIES

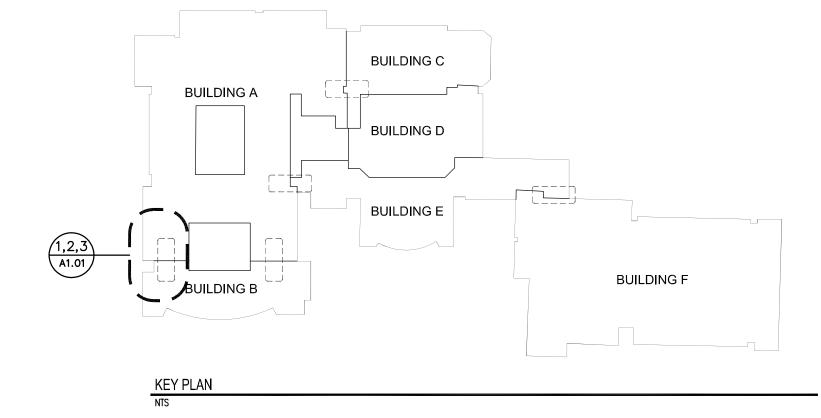
ARE NOT CONSIDERED SEPARATE OCCUPANCIES.

DANIEL TIERNEY DEPUTY STATE BUILDING INSPECTOR.











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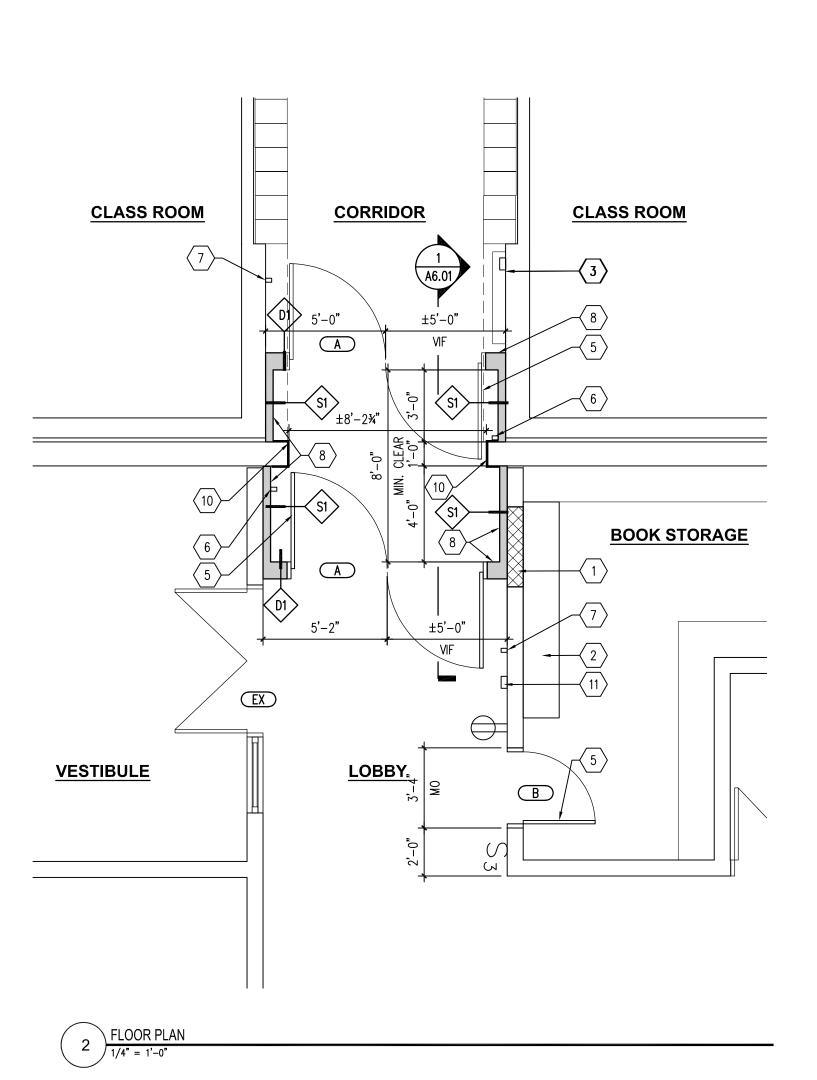
Ber 032-0062 CV Phase 3 of 3" ENTRY SCHOOLS CODE IMPROVEMENT

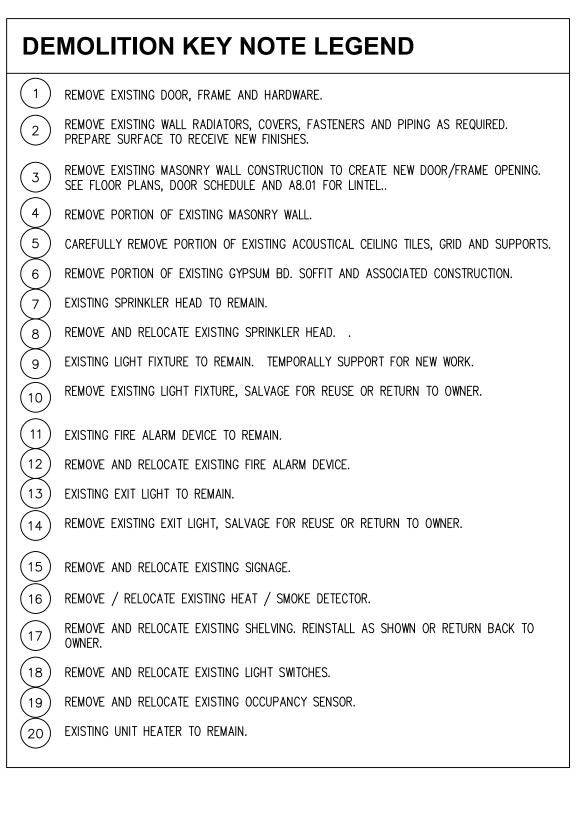
KEV NOTE I EGEND

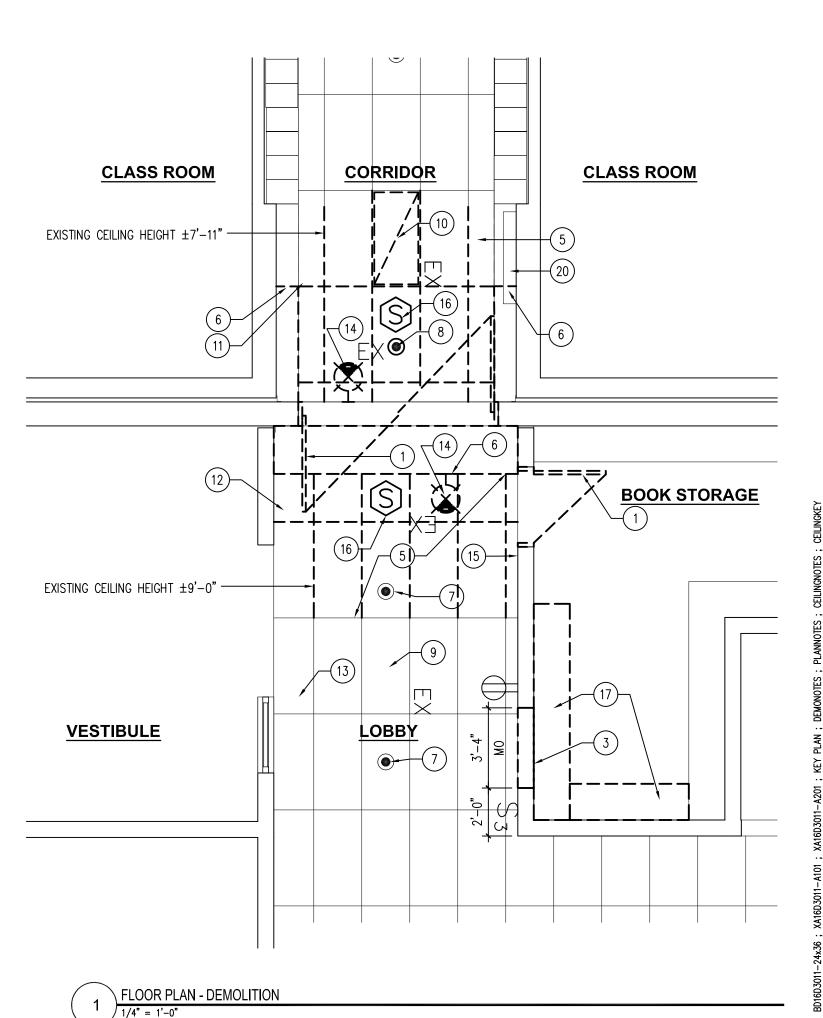
KEY NOTE LEGEND REFER TO A6.01 FOR WALL TYPES

- 1 TOOTH-IN NEW CMU TO MATCH EXISTING.
- $\left\langle 2\right\rangle$ REINSTALL EXISTING RELOCATED SHELVES. FASTEN SHELVES TO EXISTING CMU WALL.
- $\left\langle \mathbf{3} \right\rangle$ EXISTING CABINET UNIT HEATER TO REMAIN.
- $\overline{5}$ NEW DOOR AND FRAME. SEE A8.01.
- 6 RELOCATED EXISTING ELEC MAG HOLD OPEN. EXTEND WIRING AS REQUIRED.
- 7 NEW ELEC MAG HOLD OPEN DEVICE TIED INTO THE FIRE ALARM SYSTEM. MATCH EXISTING.
- 8 NEW 6" VINYL BASE COLOR 'BLACK' AT EXPOSED NEW GYP WALLS.
- 9 REINSTALL EXISTING LIGHT SWITCH PROVIDE NEW WIRE AND WIREMOLD.
- $\langle 10 \rangle$ PATCH EXISTING CMU WALL LAMINATE W/ 5/8" FRGP.
- (11) NEW CARD READER AND CONDUIT TO DOOR FRAME.

NOTE: FIRESTOP EXISTING PENETRATION THROUGH 2HR SEPARATION WALL.



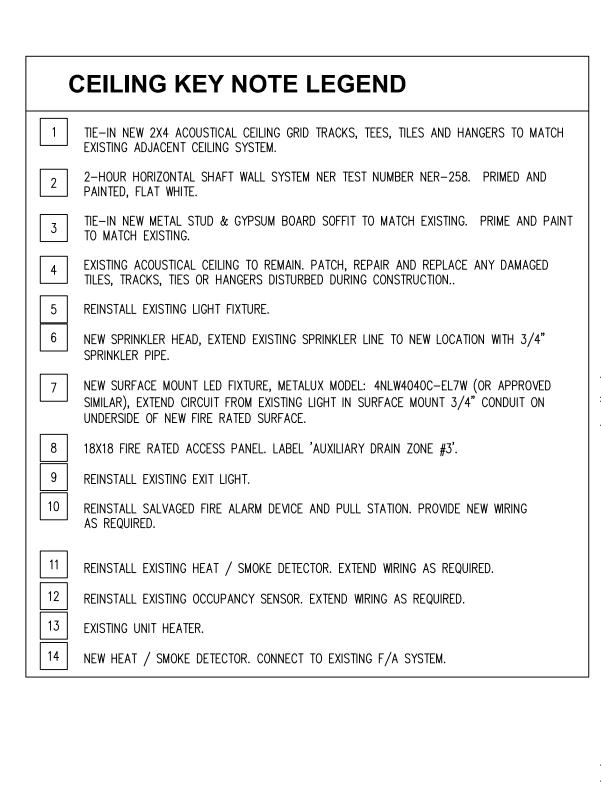




Designed Drawn Checked Approved Scale Project No. 16D3011 Date 1/31/2020 CAD File: A16D3011 A101 - A101 - A101 - BILL ENLAND File: A16D3011 - A101 - A101 - A105 Title ENLARGE PLANS

Sheet No. A1 0 1

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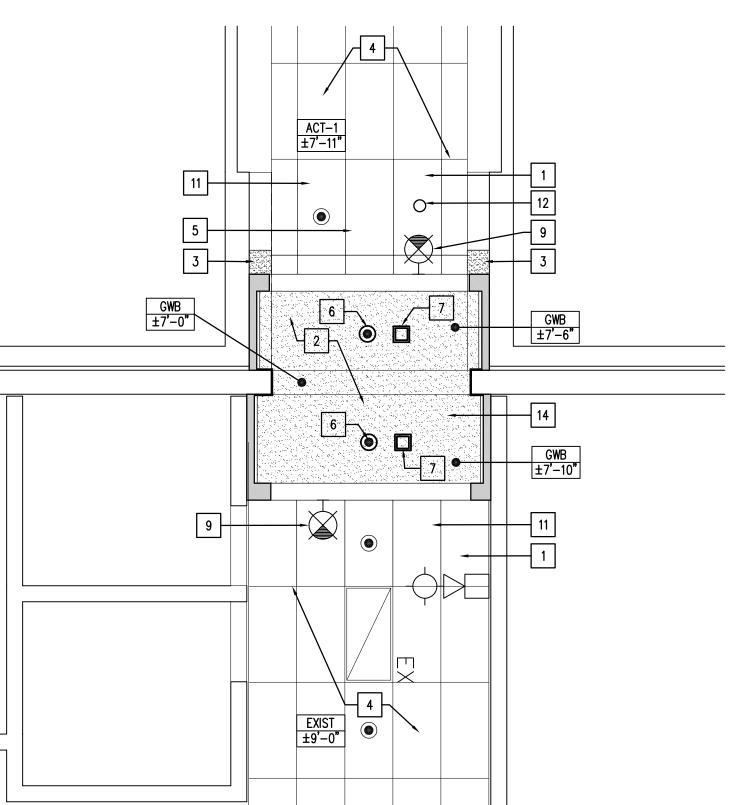
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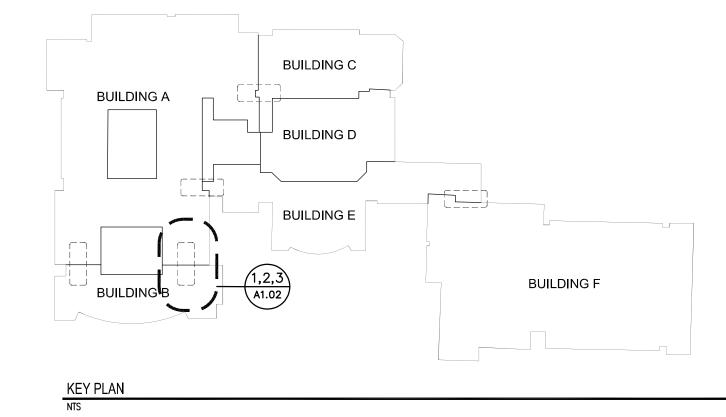
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CEILING LEGEND	
•	RECESSED SPRINKLER HEAD
	FIRE ALARM W/ STROBE
	SMOKE / HEAT DETECTOR
	2X4 RECESSED LIGHT
	RECESSED LED LIGHTING 2HR RATED ENCLOSURE
	EXIT LIGHT



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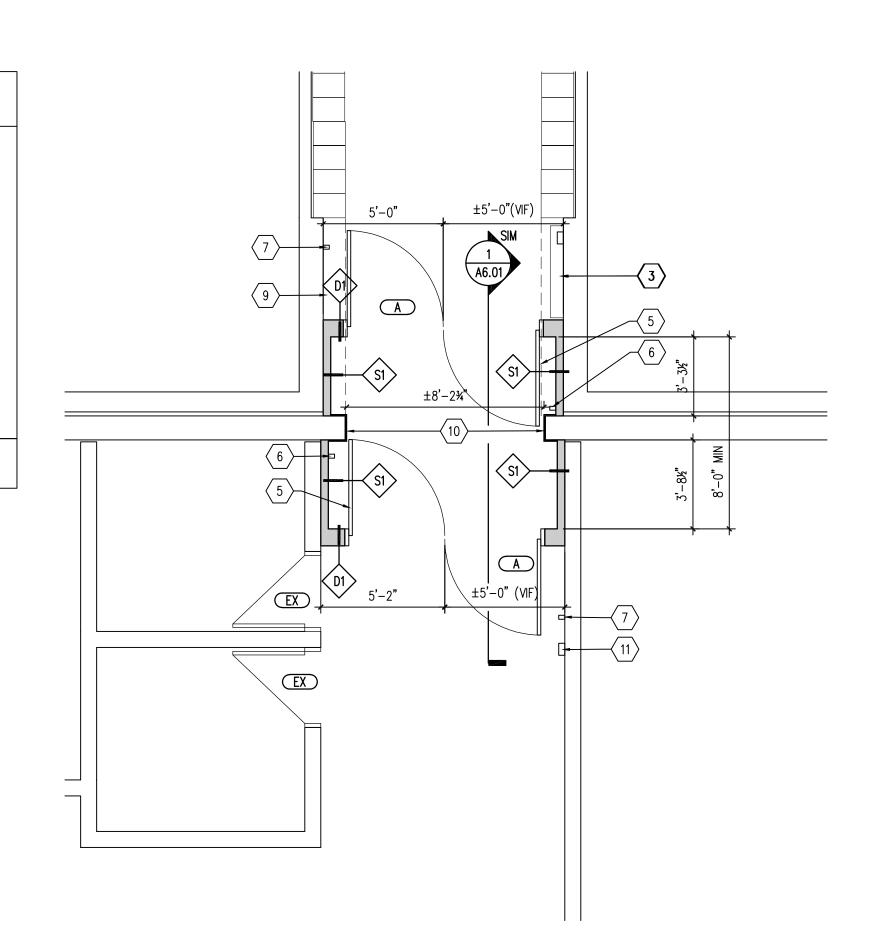
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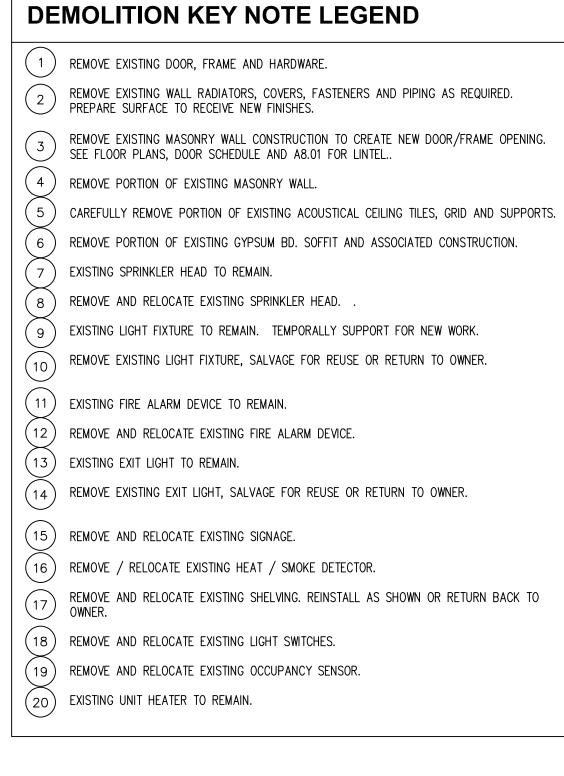
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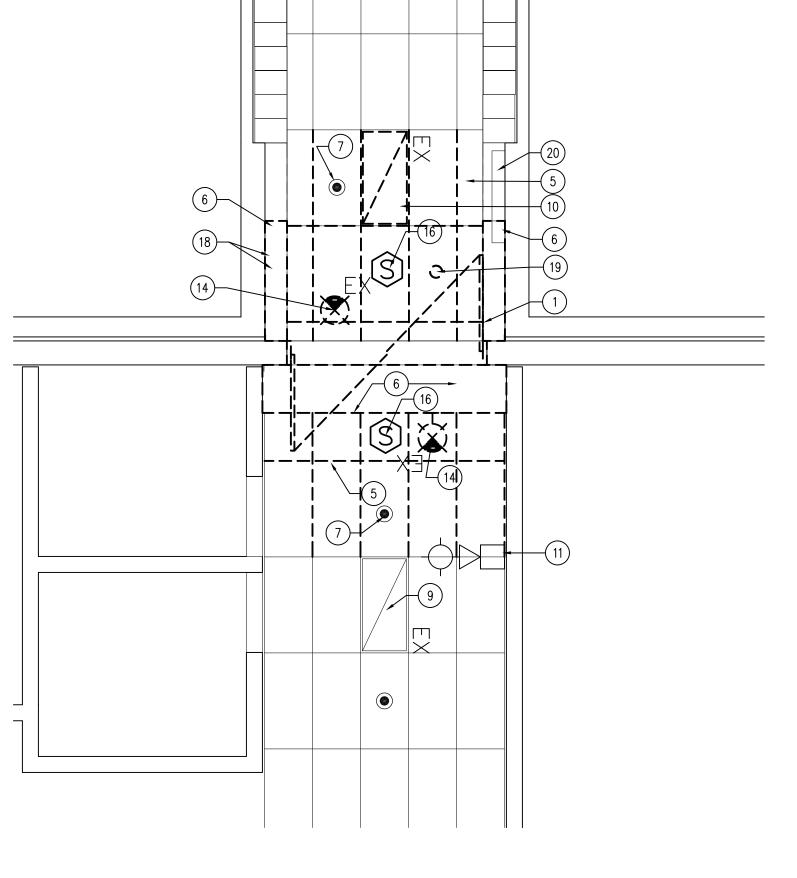
1/31/2020 A16D3011-A101-A105

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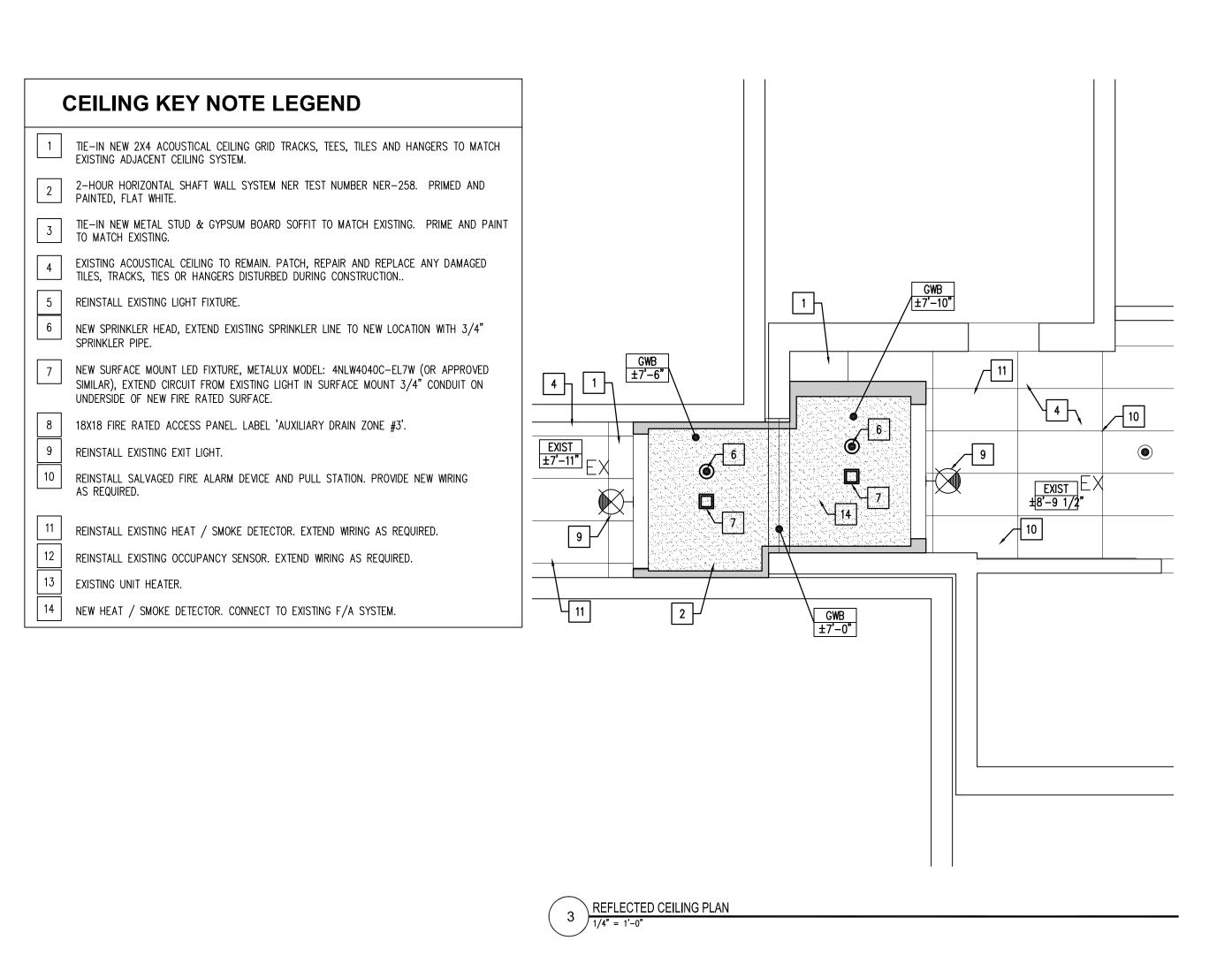
ENLARGE PLANS

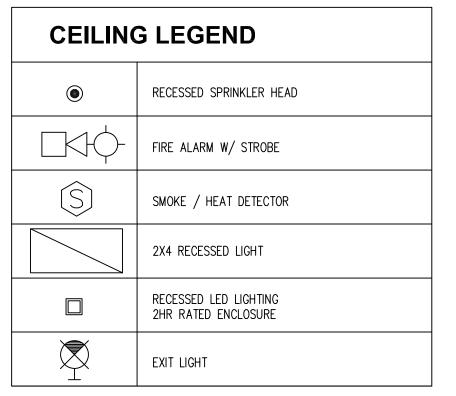


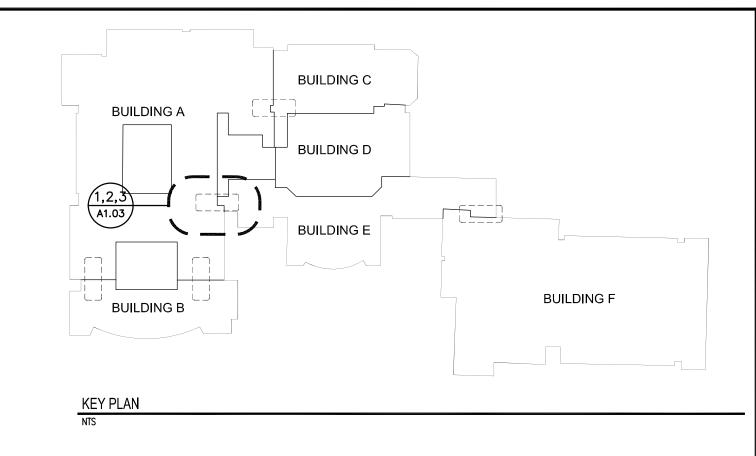




\ FLOOR PLAN - DEMOLITION









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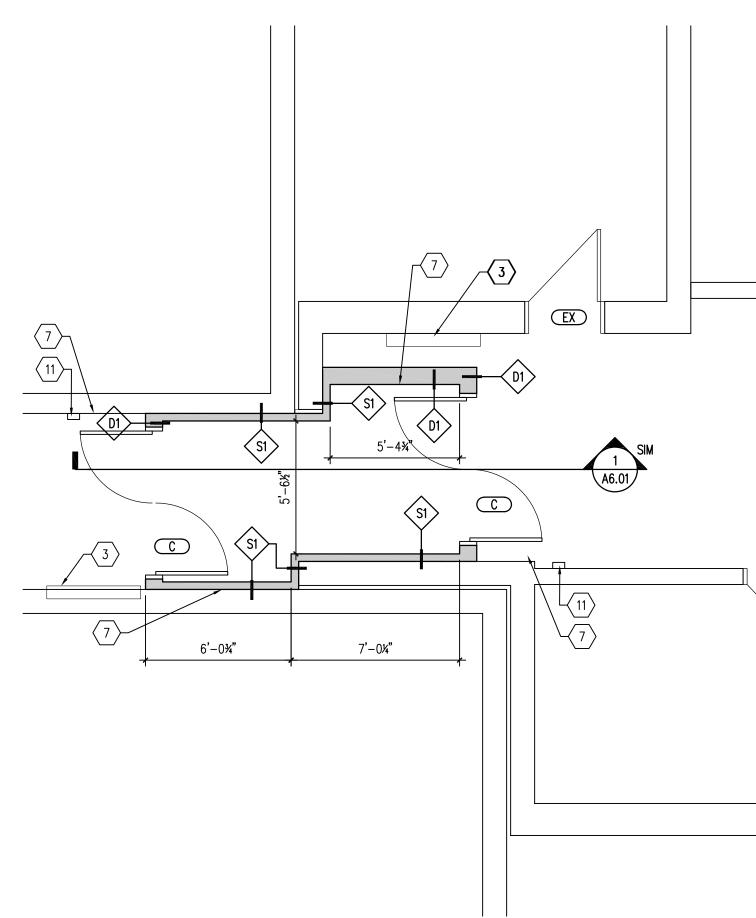
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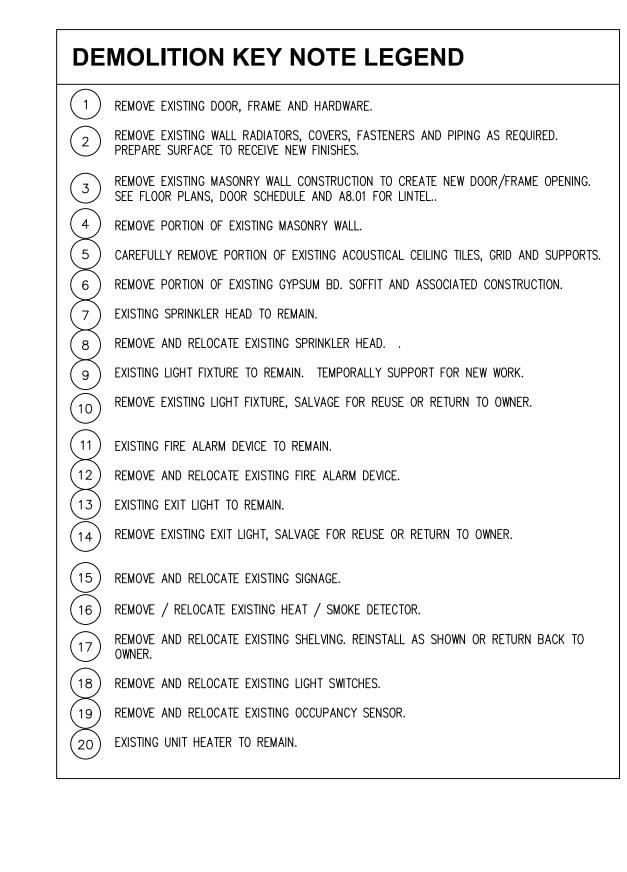
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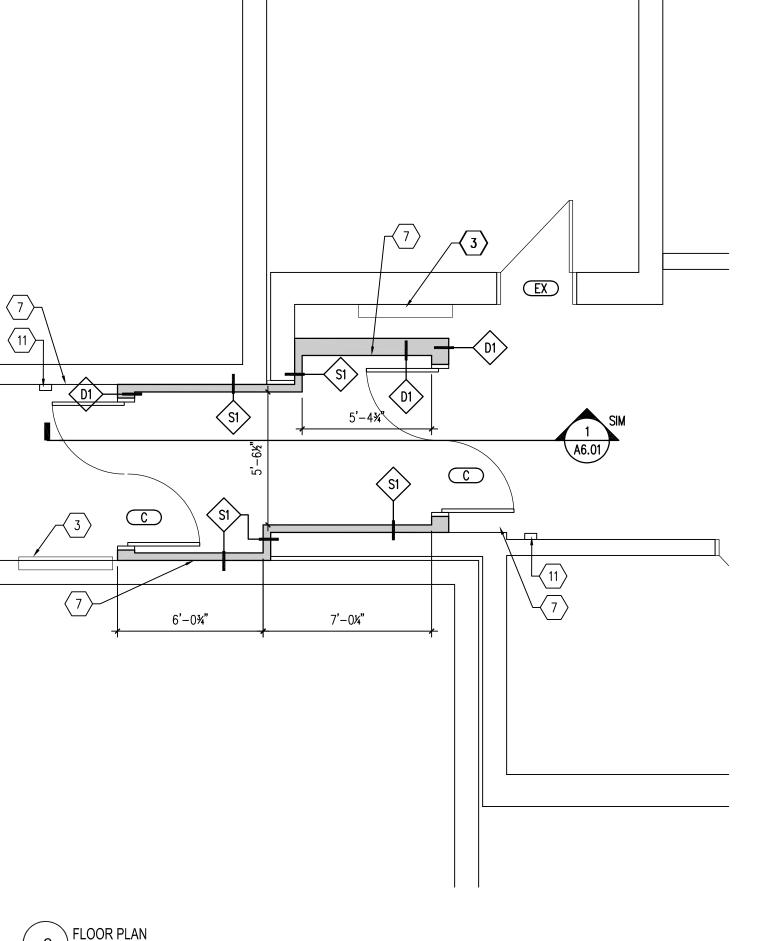
Project No.

16D3011 1/31/2020 A16D3011-A101-A105

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\ FLOOR PLAN - DEMOLITION

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NOTE: FIRESTOP EXISTING PENETRATION THROUGH 2HR SEPARATION WALL.

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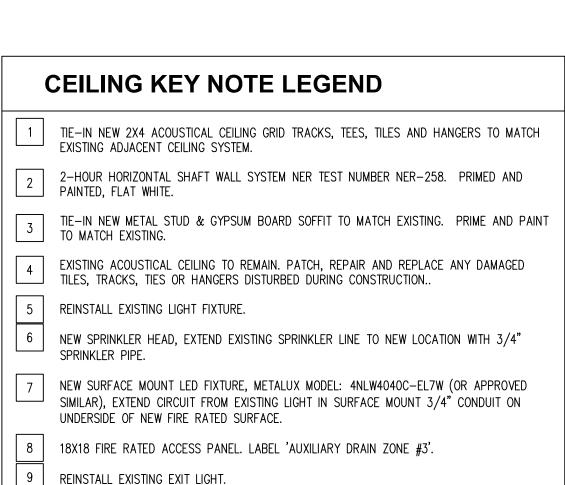
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3 EXISTING CABINET UNIT HEATER TO REMAIN.

 $\langle 5 \rangle$ NEW DOOR AND FRAME. SEE A8.01.

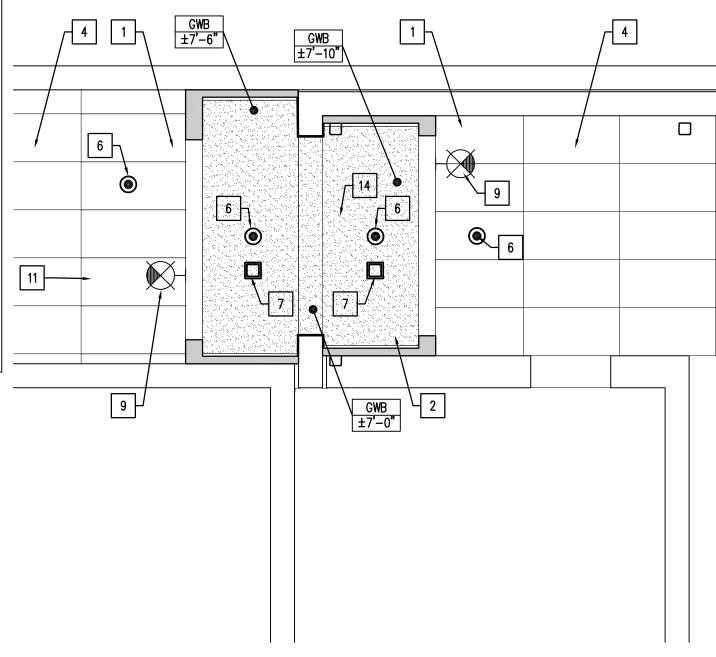


REINSTALL SALVAGED FIRE ALARM DEVICE AND PULL STATION. PROVIDE NEW WIRING

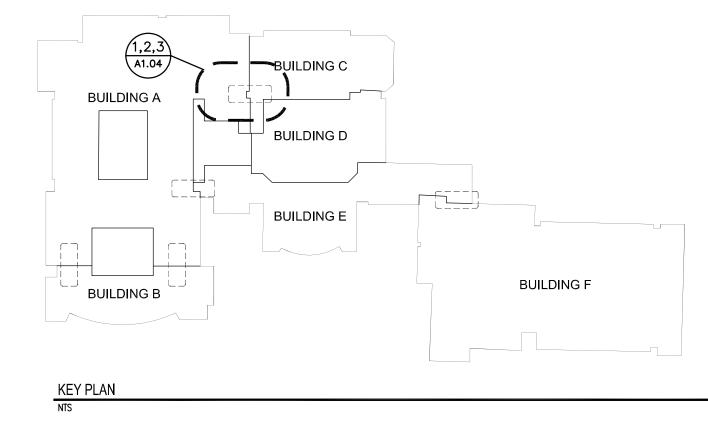
REINSTALL EXISTING HEAT / SMOKE DETECTOR. EXTEND WIRING AS REQUIRED.

REINSTALL EXISTING OCCUPANCY SENSOR. EXTEND WIRING AS REQUIRED.

14 NEW HEAT / SMOKE DETECTOR. CONNECT TO EXISTING F/A SYSTEM.



CEILING LEGEND	
•	RECESSED SPRINKLER HEAD
	FIRE ALARM W/ STROBE
\$	SMOKE / HEAT DETECTOR
	2X4 RECESSED LIGHT
	RECESSED LED LIGHTING 2HR RATED ENCLOSURE
	EXIT LIGHT



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AS REQUIRED.

EXISTING UNIT HEATER.

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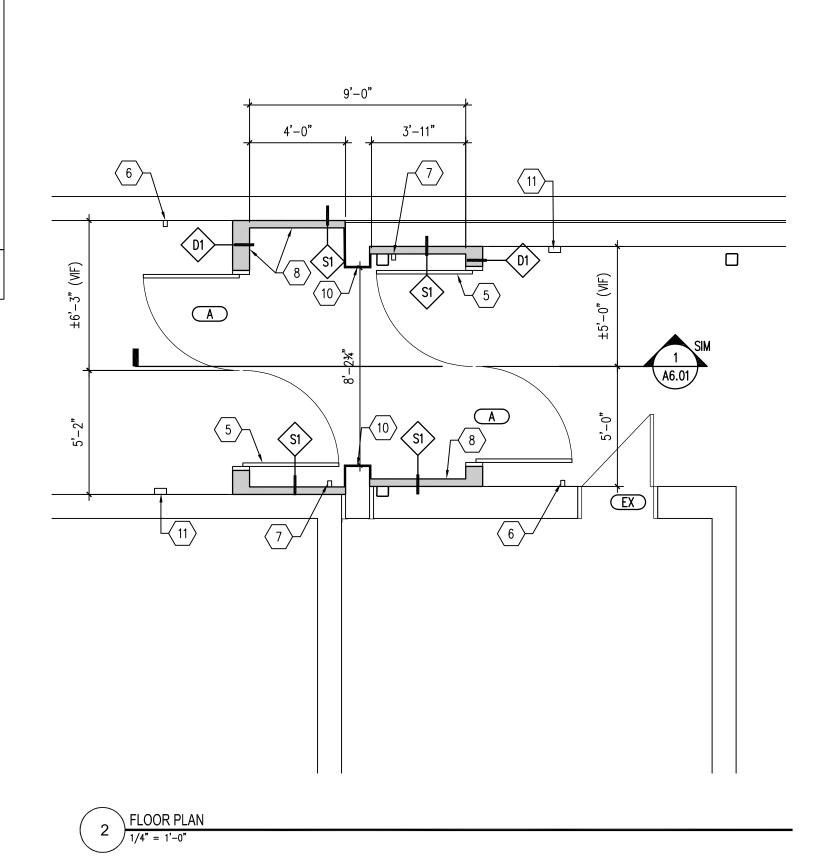
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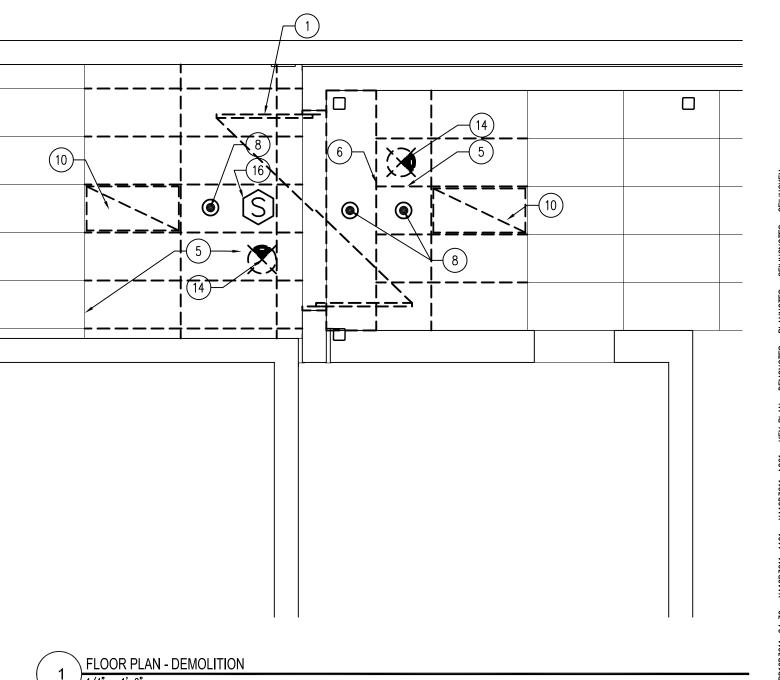
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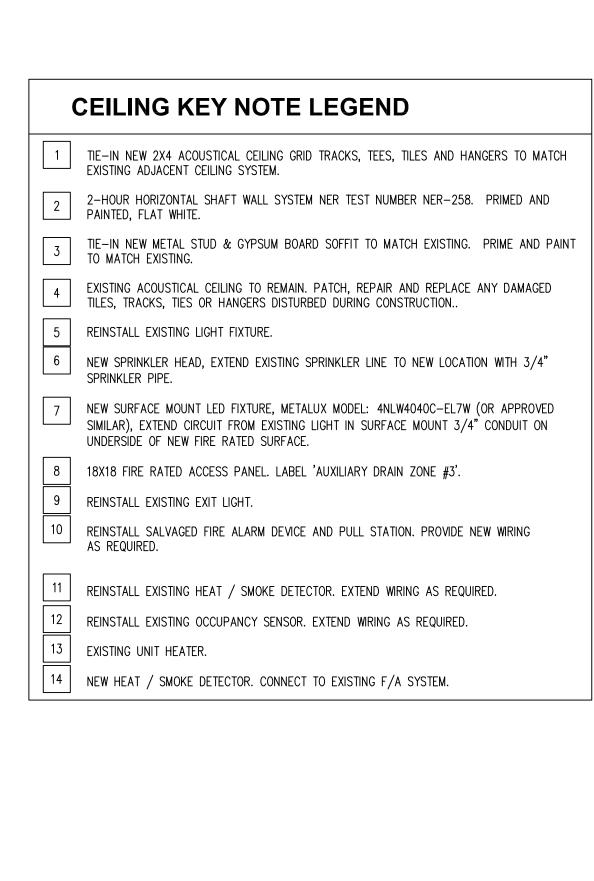
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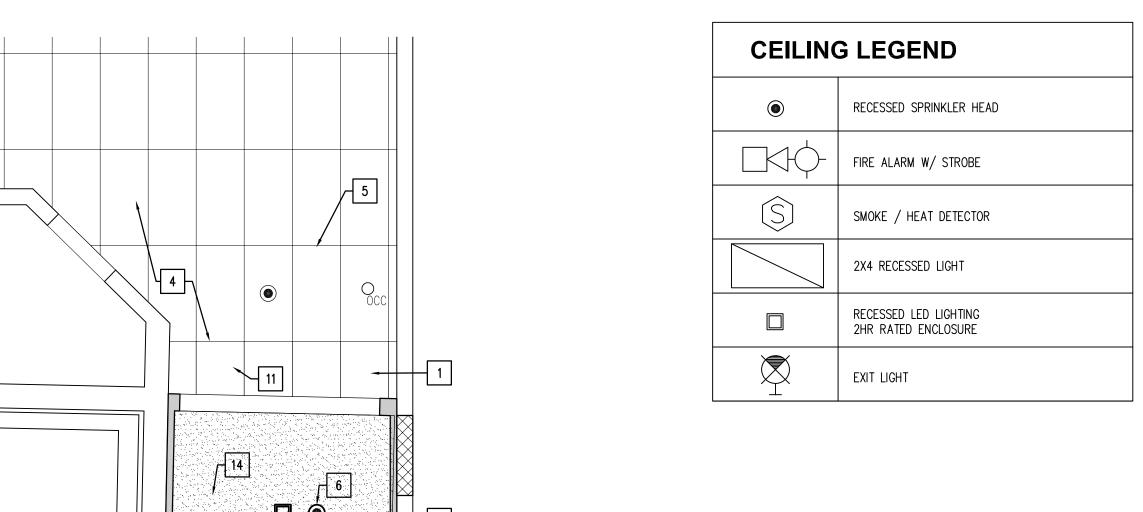
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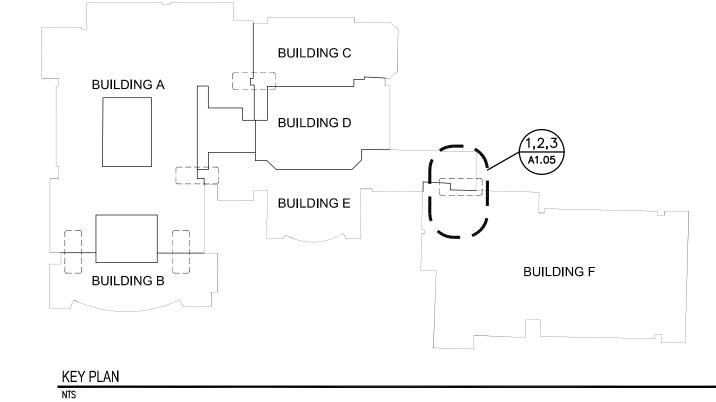


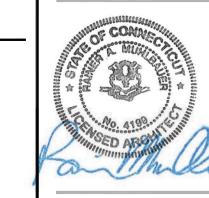
DEMOLITION KEY NOTE LEGEND $\left(egin{array}{c} 1 \end{array} ight)$ REMOVE EXISTING DOOR, FRAME AND HARDWARE. REMOVE EXISTING WALL RADIATORS, COVERS, FASTENERS AND PIPING AS REQUIRED. 2 REMOVE EXISTING WALL RADIATURS, COVERS, FA REMOVE EXISTING MASONRY WALL CONSTRUCTION TO CREATE NEW DOOR/FRAME OPENING. SEE FLOOR PLANS, DOOR SCHEDULE AND A8.01 FOR LINTEL.. (4) REMOVE PORTION OF EXISTING MASONRY WALL. (5) CAREFULLY REMOVE PORTION OF EXISTING ACOUSTICAL CEILING TILES, GRID AND SUPPORTS. (6) REMOVE PORTION OF EXISTING GYPSUM BD. SOFFIT AND ASSOCIATED CONSTRUCTION. EXISTING SPRINKLER HEAD TO REMAIN. REMOVE AND RELOCATE EXISTING SPRINKLER HEAD. (9) EXISTING LIGHT FIXTURE TO REMAIN. TEMPORALLY SUPPORT FOR NEW WORK. REMOVE EXISTING LIGHT FIXTURE, SALVAGE FOR REUSE OR RETURN TO OWNER. (11) EXISTING FIRE ALARM DEVICE TO REMAIN. (12) REMOVE AND RELOCATE EXISTING FIRE ALARM DEVICE. (13) EXISTING EXIT LIGHT TO REMAIN. (14) REMOVE EXISTING EXIT LIGHT, SALVAGE FOR REUSE OR RETURN TO OWNER. (15) REMOVE AND RELOCATE EXISTING SIGNAGE. (16) REMOVE / RELOCATE EXISTING HEAT / SMOKE DETECTOR. REMOVE AND RELOCATE EXISTING SHELVING. REINSTALL AS SHOWN OR RETURN BACK TO 17 REMOVE A (18) REMOVE AND RELOCATE EXISTING LIGHT SWITCHES. (19) REMOVE AND RELOCATE EXISTING OCCUPANCY SENSOR. (20) EXISTING UNIT HEATER TO REMAIN.











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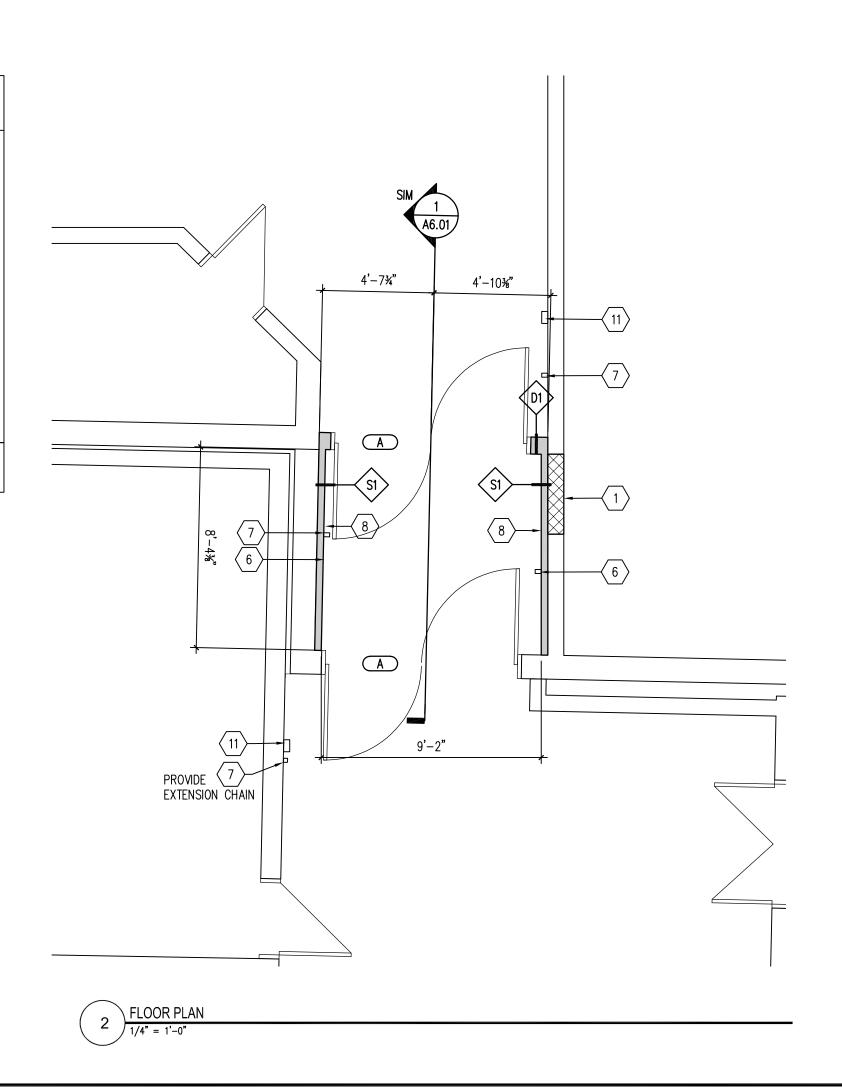
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KEY NOTE LEGEND REFER TO A6.01 FOR WALL TYPES

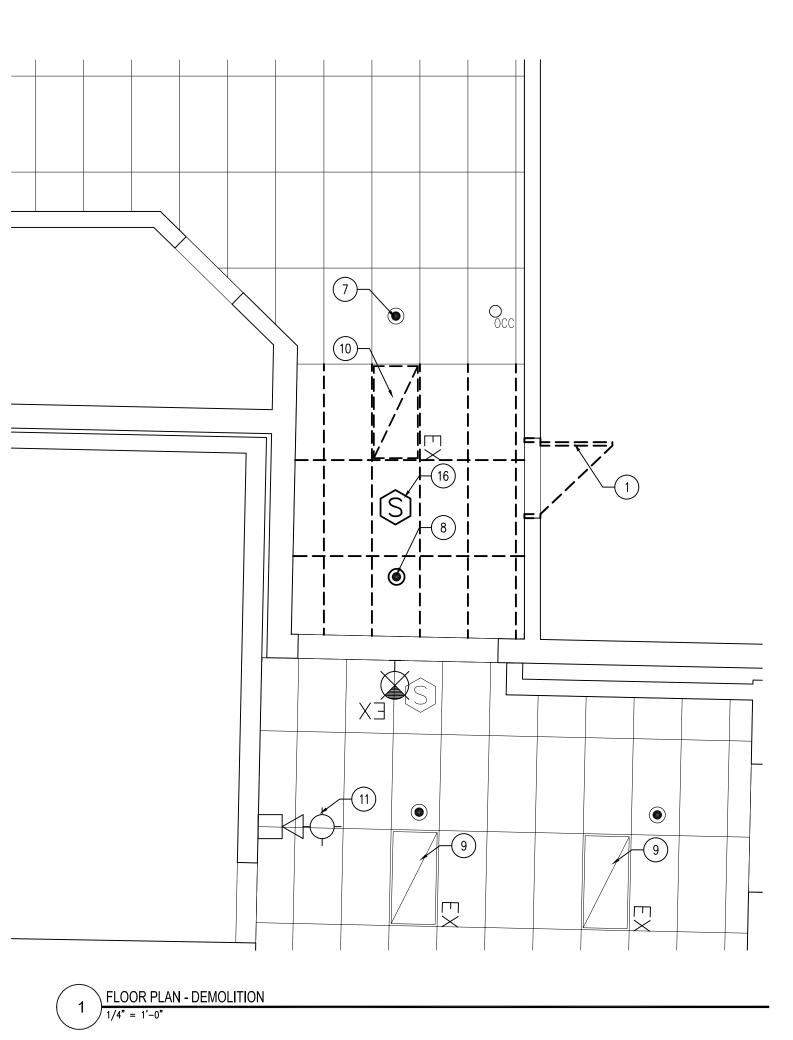
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DEMOLITION KEY NOTE LEGEND $\left(egin{array}{c} 1 \end{array} ight)$ REMOVE EXISTING DOOR, FRAME AND HARDWARE.

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- REMOVE EXISTING MASONRY WALL CONSTRUCTION TO CREATE NEW DOOR/FRAME OPENING. SEE FLOOR PLANS, DOOR SCHEDULE AND A8.01 FOR LINTEL..
- (4) REMOVE PORTION OF EXISTING MASONRY WALL.
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- $\binom{20}{}$ EXISTING UNIT HEATER TO REMAIN.

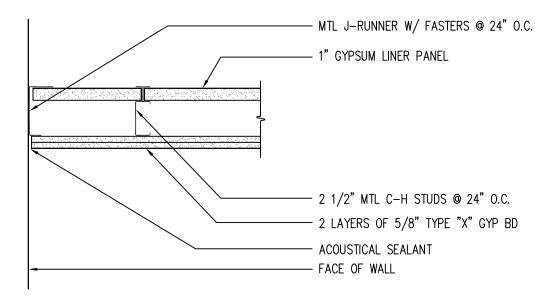


Project No. A16D3011-A101-A105 ENLARGE PLANS

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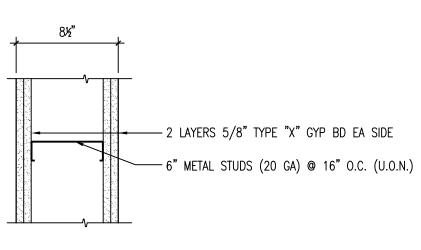
GENERAL NOTES:

- 1. PROVIDE ABUSE RESISTANT GYPSUM BOARD (FRGP) FOR WALL EXPOSED TO CORRIDORS.
- 2. STUD, BEAM, AND PURLIN SPACING INDICATED ARE MINIMUMS. LIGHT GAUGE METAL FRAMING SUPPLIER IS RESPONSIBLE FOR SIZE, GAUGE AND SPACING OF ALL MEMBERS.
- 3. ALL GYPSUM BOARD SHALL BE TAPED AND FINISHED AS SCHEDULED UNLESS OTHERWISE NOTED.
- 4. PROVIDE BLOCKING AND BRACING AS REQUIRED TO SUPPORT ALL SURFACE OR RECESS MOUNTED ITEMS.



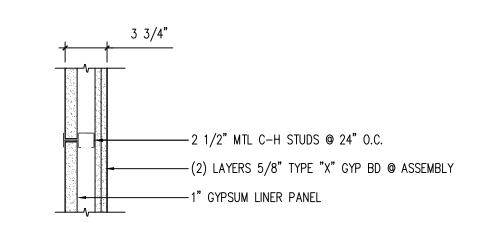
FIRE RATED CEILING - NER-258 (2 HR)

- 1. ALL FIRE RATED AND SMOKE RESISTANT WALLS SHALL EXTEND TO UNDERSIDE OF METAL ROOF/FLOOR DECK AND/OR STRUCTURE ABOVE AS REQUIRED TO MAINTAIN DESIGNATED FIRE RATINGS.
- 2. PENETRATIONS THROUGH SMOKE RESISTANT WALLS SHALL BE FILLED WITH MATERIAL CAPABLE OF MAINTAINING REQUIRED SMOKE RESISTANCE OR PROTECTED BY APPROVED DEVICE FOR SUCH PURPOSES IN ACCORDANCE WITH ALL THE APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
- 3. PROVIDE THROUGH—PENETRATION FIRESTOP SYSTEMS AT ALL PENETRATIONS THROUGH FIRE RATED WALLS AND AT INTERSECTIONS BETWEEN FIRE RATED WALLS AND ADJECENT WALLS, FLOOR AND ROOF DECKS, STRUCTURAL ELEMENTS, AND DISMILAR MATERIALS AS REQUIRED TO MAINTAIN DESIGNATED FIRE RATINGS.



6" MTL STUDS - 2 HR RATED - UL # U411

FIRE RATED WALL NOTES:



2 1/2" MTL C-H STUDS - UL #U497 (2 HR) - STC 40

BUILDING C

BUILDING D

BUILDING B

BUILDING F

(203) 630-2615 Fax

Companies

ARCHITECTURE ENGINEERING

ENVIRONMENTAL LAND SURVEYING

355 Research Parkway Meriden, CT 06450 (203) 630-1406

SED ASSESSMENT

COVENTRY SCHOOLS
FIRE WALL CODE IMPROVEMEN

REVISIONS

Designed

Drawn

Checked

Approved

Designed
Drawn
Checked
Approved
Scale
Project No.
Date
CAD File:

pject No. 16D3011
te 1/31/2020
D File: A16D3011-A601
te ECTION & DETAILS

SECTION & DETAILS

A6.01

ENSTING METAL DECK AND MEMBERANE
FOOF CONSTRUCTION

ENSTING A FIRE
ASSORDER WALL
ASSORDER WALL
CONSTRUCTION

ENSTING A FIRE
CONSTRUCTION

ENSTING A FIRE
ASSORDER WALL
CONSTRUCTION

ENSTING A FIRE
CONSTRUCTION

ENSTING A FIRE
CONSTRUCTION

ENSTING METAL DECK AND MEMBERANE
FOOF CONSTRUCTION

INCLUDED TO THE CONST

8 WALL / CEILING TYPES
1 1/2" = 1'-0"

