



1. ALL WORK CALLED FOR ON THESE DOCUMENTS SHALL BE IN COMPLIANCE WITH CODES, RULES, AND REGULATIONS OF ALL FEDERAL, STATE, AND LOCAL GOVERNMENTAL AGENCIES HAVING JURISDICTION."
2. BEFORE COMMENCING THE WORK THE CONTRACTOR SHALL SUBMIT ALL REQUIRED CERTIFICATES INCLUDING INSURANCES, PERMITS, AND OTHER REQUIRED DOCUMENTATION, OUTLINED IN THE PROJECT MANUAL OR INDICATED ON THE BID DOCUMENTS.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK, AND SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO THE ARCHITECT BEFORE PROCEEDING WITH WORK. ANY WORK STARTED BEFORE CONSULTATION AND ACCEPTANCE BY THE ARCHITECT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO CORRECTIONS BY THE CONTRACTOR WITHOUT ADDITIONAL COMPENSATION.
4. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS.
5. THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH REQUIREMENTS OF CAMPUS PROJECT REPRESENTATIVE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK.
7. THE CONTRACTOR SHALL LAY OUT HIS OWN WORK, AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR THE OTHER TRADES (PLUMBING, ELECTRICAL, ETC.).
8. THE PLUMBING AND ELECTRICAL WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES. WHO SHALL ARRANGE FOR AND OBTAIN INSPECTIONS AND REQUIRED SIGN-OFFS AND INSPECTIONS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCAL JURISDICTIONAL REQUIREMENTS.
9. THE CONTRACTOR SHALL DO ALL CUTTING, PATCHING, REPAIRING AS REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS, AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB.
10. ALL PIPING AND WIRING SHALL BE PULLED BACK TO THE SOURCE.
11. THE CONTRACTOR, UPON COMPLETION OF THE WORK, SHALL APPLY FOR DEPARTMENT OF BUILDINGS INSPECTIONS AND SIGN-OFFS AS REQUIRED.
12. BUILDING RISERS, INCLUDING PLUMBING AND ELECTRICAL ARE NOT PERMITTED TO BE RELOCATED.

13. ALL WORK TO BE IN COMPLIANCE WITH ALL SECTIONS FOR THE ALTERATIONS AGREEMENT AND CAMPUS SPECIAL CONDITIONS FOR CONSTRUCTION FOR ADDITIONAL INFORMATION & REQUIREMENTS, IF APPLICABLE.
14. ELECTRICAL IN DEMISING OR EXTERIOR WALLS FOR ANY SERVICE, INCLUDING CUTTING IS NOT PERMITTED UNLESS REVIEWED AND APPROVED BY THE BUILDING'S ARCHITECT.
15. PROVIDE OR MAINTAIN FIRE RATED CONSTRUCTION AS REQUIRED AT SHAFTS, STRUCTURAL MEMBERS, ETC.
16. THE USE OF POWER DEVICES SUCH AS ELECTRIC HAMMERS OR OTHER PNEUMATIC TOOLS WILL NOT BE ALLOWED UNLESS APPROVED BY THE CAMPUS PROJECT REPRESENTATIVE. NO POWER-ACTUATED DEVICES MAY BE USED TO ATTACH STUDS TO EXISTING FLOORS, CEILINGS OR WALLS UNLESS A LIST OF PROPOSED TOOLS IS SUBMITTED AND APPROVED BY THE CAMPUS PROJECT REPRESENTATIVE. POWER-ACTUATED DEVICES MAY NOT BE UTILIZED WITHOUT PRIOR CONSENT FROM THE BOARD, AS PER THE ALTERATION AGREEMENT.
17. NOTE THAT THE BUILDING'S PLUMBING, GAS, TELEPHONE OR ELECTRIC RISERS MAY NOT BE DISTURBED; PROVIDE PROTECTION THROUGHOUT THE WORK. SHUTDOWN OF SYSTEM RISERS MUST BE COORDINATED WITH THE CAMPUS PROJECT REPRESENTATIVE.
18. PROVIDE FOR FIRE SAFETY AS PER THE ALTERATION AGREEMENT, AS REQUIRED. MAINTAIN FIRE EXTINGUISHERS AND SMOKE/CO DETECTORS IN WORKING ORDER ON THE SITE AT ALL TIMES DURING CONSTRUCTION. REFER TO CAMPUS SPECIAL CONDITIONS FOR CONSTRUCTION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
19. CONTRACTOR TO PROVIDE FOR PAINT, DUST, DEBRIS AND NOISE CONTAINMENT AS DIRECTED BY THE CAMPUS PROJECT REPRESENTATIVE. ALL VENTS AND EXHAUSTS MUST BE FULLY SEALED TO PREVENT INFILTRATION OF DUST AND DIRT.
20. WHERE CHASES, SHAFTS, DEMISING WALLS AND STRUCTURAL ELEMENTS ARE OPENED DURING CONSTRUCTION, PROVIDE FIRESTOPPING AS REQUIRED BY CODE AT ALL EXISTING OR NEW OPENINGS. A UL RATED FIRESTOPPING SYSTEM IS TO BE PROVIDED AS MANUFACTURED BY STI, HILTI OR EQUAL. NOTE THAT FIRESTOPPING MUST BE COMPLETE ONCE DEMOLITION HAS BEEN COMPLETED.
21. CONTRACTOR IS TO NOTIFY THE CAMPUS PROJECT REPRESENTATIVE AND/OR ARCHITECT ON THE FOLLOWING MILESTONES SO THAT OBSERVATION VISITS MAY BE SCHEDULED OF THE WORK:
 - COMPLETION OF DEMOLITION
 - COMPLETION OF ROUGHING
 - COMPLETION OF WATERPROOFING AND SOUNDPROOFING
 - COMPLETION OF PROJECT
22. ANY CHANGES TO THE SCOPE OF WORK MUST BE SUBMITTED TO THE CLIENT AND THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO THE COMMENCEMENT OF THAT WORK.
23. COMPLY WITH MANUFACTURERS PRINTED INSTRUCTIONS, AND THE STANDARDS OF RECOGNIZED AGENCIES AND ASSOCIATIONS FOR MATERIALS, WORKMANSHIP AND INSTALLATION.

24. DO NOT SCALE DRAWINGS. DETAILS, NOTES, AND THE LIKE ARE TYPICAL AND APPLY IN GENERAL TO SIMILAR CONDITIONS.

25. SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS OR CHANGES TO THE ARCHITECT FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR INSTALLATION.

26. SECURE CONSTRUCTION MATERIALS AT ALL TIMES. OWNER WILL NOT BE RESPONSIBLE FOR MATERIALS PRIOR TO FINAL ACCEPTANCE. OWNER MAY DESIGNATE AREA ON SITE FOR STORAGE PURPOSES AND/OR OFFICE PURPOSES.

27. BE CAUTIONED THAT THE SITE WILL BE IN USE DURING THE ENTIRE CONSTRUCTION OPERATION. EXTREME CARE AND CAUTION MUST BE TAKEN TO PROTECT PEDESTRIANS AND PROPERTY. PROVIDE ADEQUATE WARNING SIGNS, LIGHTS, BARRICADES, AND ALL ELSE NECESSARY TO PROTECT PEOPLE AND PROPERTY.

28. WORK PERFORMED OVER ANY SURFACE CONSTITUTES CONTRACTOR ACCEPTANCE OF THAT SURFACE FOR THE SPECIFIED QUALITY OF THE WORK BEING PERFORMED THEREON.

29. MAINTAIN PREMISES FREE FROM ACCUMULATIONS OF WASTE, DEBRIS, AND RUBISH, CAUSED BY OPERATIONS. DUST SHALL BE REMOVED FROM JOB SITE DAILY. ALL DEBRIS TO BE STORED IN METAL, CLOSED CONTAINERS SUPPLIED BY CONTRACTOR.

30. IT IS ESSENTIAL THAT ALL WORK PROCEED WITH THE MAXIMUM COOPERATION OF ALL PARTIES AND WITH MINIMUM INTERFERENCE TO THE OCCUPANTS WITHIN THE BUILDING. THE OWNER'S DIRECTIONS IN THIS REGARD SHALL BE FULLY COMPLIED WITH.

31. CONTRACTOR SHALL SCHEDULE AND SEQUENCE WORK SO AS NOT TO INTERFERE WITH OTHER ONGOING OR SCHEDULED WORK, OR WITH ACTIVITIES OF THE OWNER. COORDINATE WITH OWNER'S REPRESENTATIVE.

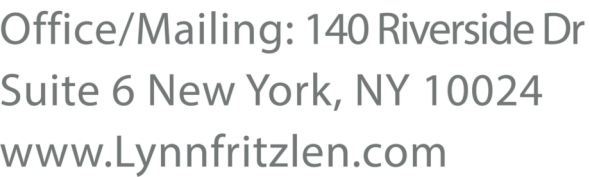
32. AT ALL TIMES IN THE COURSE OF CONSTRUCTION, ADEQUATE EGRESS IS REQUIRED AND MUST BE MAINTAINED AT ALL TIMES. REQUIRED EGRESS PATHS MUST NOT BE OBSTRUCTED AT ANY TIME.

| | |
|--------------------------------|--------------------------------|
| ACT- ACOUSTIC CEILING TILE | MAX- MAXIMUM |
| AFF- ABOVE FINISH FLOOR | MECH- MECHANICAL |
| BFF- BELOW FINISH FLOOR | MIN- MINIMUM |
| BBT- BOTTOM | MTL- METAL |
| CCIP- CAST IN PLACE CONCRETE | NICK- IN CONTRACT |
| CLG- CEILING | OC- ON CENTER |
| CLR- CLEAR | PLUMB- PLUMBING |
| CMU- CONCRETE MASONRY UNIT | PLYD- PLYWOOD |
| CONC- CONCRETE | PNT- PAINT |
| CONT- CONTINUOUS | RFL- REFLECTED CEILING PLAN |
| CPT- CARPET | RD- ROOF DRAIN |
| CTR- CERAMIC TILE | REQD- REQUIRED |
| DEMO- DEMOLITION | RM- ROOM |
| DIA- DIAMETER | SI- SIMILAR |
| DIM(S)- DIMENSION(S) | SPEC- SPECIFICATION |
| DN- DOWN | STC- SOUND TRANSMISSION RATING |
| DWG- DRAWING | STL- STEEL |
| EA- EACH | STRUCT- STRUCTURAL |
| ELEV- ELEVATION | T&G- TONGUE AND GROOVE |
| EQ- EQUAL | TELE- TELEPHONE |
| EXIST- EXISTING | TO- TOP OF |
| HVAC- HEATING, VENTILATION AND | TY- TYPICAL |
| AIR CONDITIONING | VIF- VERIFY IN FIELD |
| INT- INTERIOR | WD- WOOD |

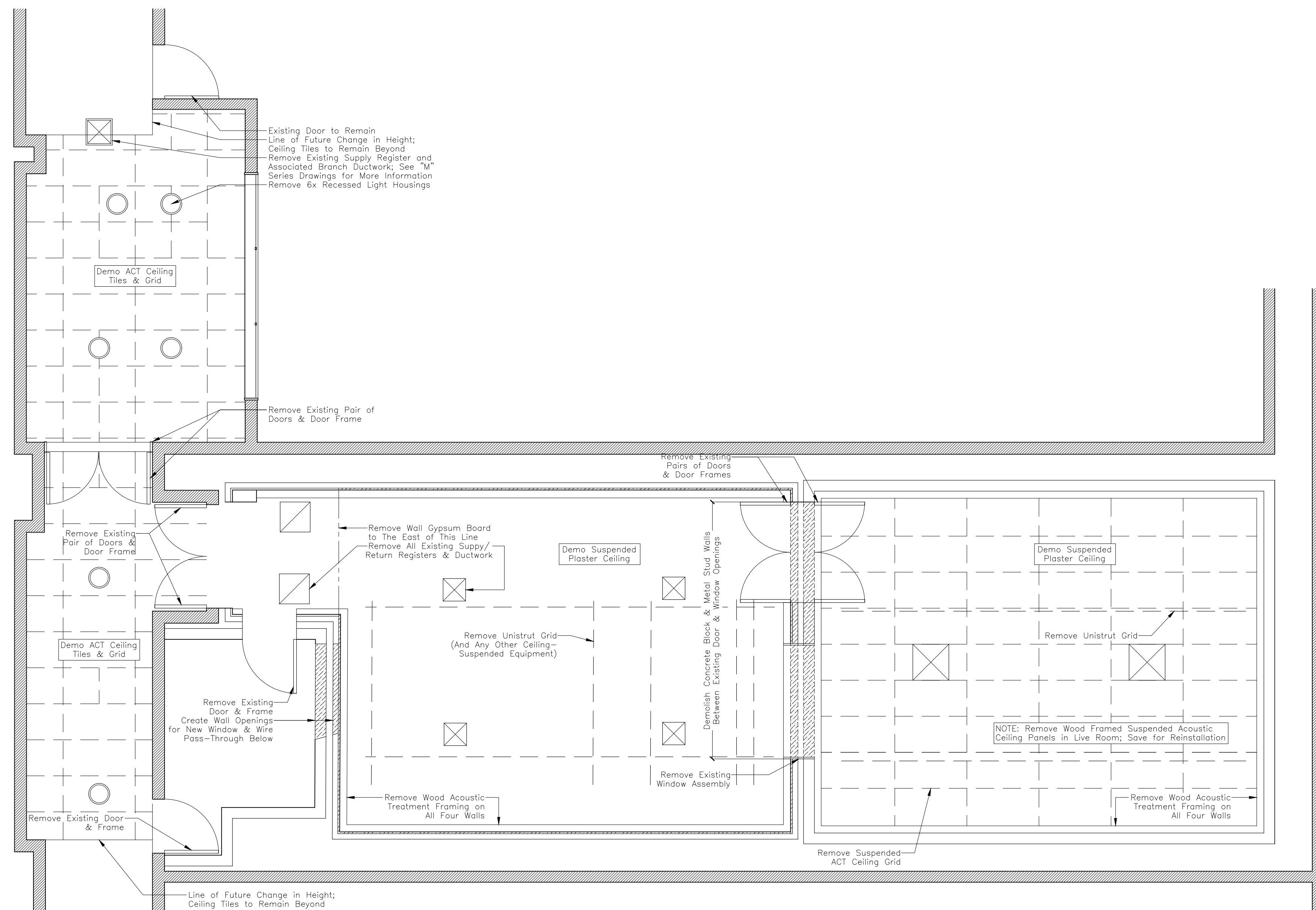
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| | DIMENSION | | DATUM |
| | SECTION | | INTERIOR ELEVATION |
| | DETAIL CALLOUT | | DELTA DENOTES REVISION NUMBER |
| | REVISION CLOUD | | |
| | TO BE REMOVED | | NORTH ARROW |
| | NEW CONSTRUCTION | | |

| | |
|----------------------------|---|
| OWNER: | SUNY PURCHASE COLLEGE |
| EMAIL: | sean.connolly@purchase.edu |
| ADDRESS: | 735 ANDERSON ROAD PURCHASE NY 10577 |
| OWNER'S REPRESENTATIVE: | SAYIM MALIK |
| EMAIL: | sayim.malik@purchase.edu |
| PHONE: | 914.251.5916 |
| ADDRESS: | 735 ANDERSON ROAD PURCHASE NY 10577 |
| ARCHITECT: | LYNN FRITZLEN ARCHITECT |
| EMAIL: | lynn@lynnfritzen.com |
| PHONE: | 646.921.2285 |
| ADDRESS: | 140 RIVERSIDE DRIVE SUITE 6 E, NEW YORK, NY 10024 |
| ACOUSTICAL CONSULTANT: | FRANCIS MANZELLA DESIGN LIMITED |
| EMAIL: | fmdesign@fmdesign.com |
| PHONE: | 914.248.7680 |
| ADDRESS: | 961 ROUTE 6 MAHOPAC, NY 10541 |
| MEP: | COLLADO |
| EMAIL: | A.Armedeo@collado-eng.com |
| PHONE: | 914.332.7658 |
| ADDRESS: | 445 HAMILTON AVE, SUITE 608 WHITE PLAINS, NY 10601 |

PURCHASE COLLEGE IS A FULL RENOVATION OF ITS MAIN RECORDING STUDIO (STUDIO A) IN THE MUSIC BUILDING. THE STUDIO IS ROUGHLY 1,300 SQ.FT. AND DIVIDED INTO TWO SPACES, A RECORDING SPACE AND TEACHING/CONTROL ROOM SPACE.

[illegible]

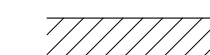
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| OPERATOR: 735 ANDERSON ROAD PURCHASE NY 10577 | | |
| OWNER: [REDACTED] | | |
| PURCHASE COLLEGE STUDIO A REHABILITATION #SU-072721 | | |
| LOCATION: 735 ANDERSON ROAD PURCHASE NY 10577 | | |
| COVER SHEET | | |
| SEAL & SIGNATURE | Date | 07/27/21 |
| | Project number | 2020-13 |
| | Drawn by | GF |
| | Checked by | LF |
| | A-001 | |
| Scale As indicated | 1 of 53 | |



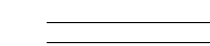
SYMBOLS



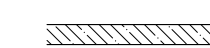
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| — | SECTION OR ELEVATION DESIGNATION |
| — | REFER TO PAGE |



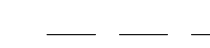
— EXISTING BUILDING DEMISING WALL



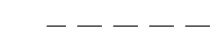
— EXISTING PARTITION TO REMAIN



— EXISTING PARTITION TO DEMOLISH



— ELEMENT ABOVE



— ELEMENT HIDDEN OR BELOW

Revisions

| Revisions | | | |
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| REVISION # | DATE | REVISION | APPROVED |
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New York, NY 10023

Mailing: 140 Riverside Drive Suite 6E,
New York, NY 10024

| |
|---------|
| PROJECT |
|---------|

Purchase College Studio A Renovations

Purchase, NY

DRAWING NAME

AS BUILT & DEMOLITION PLAN

SEAL & SIGNATURE

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

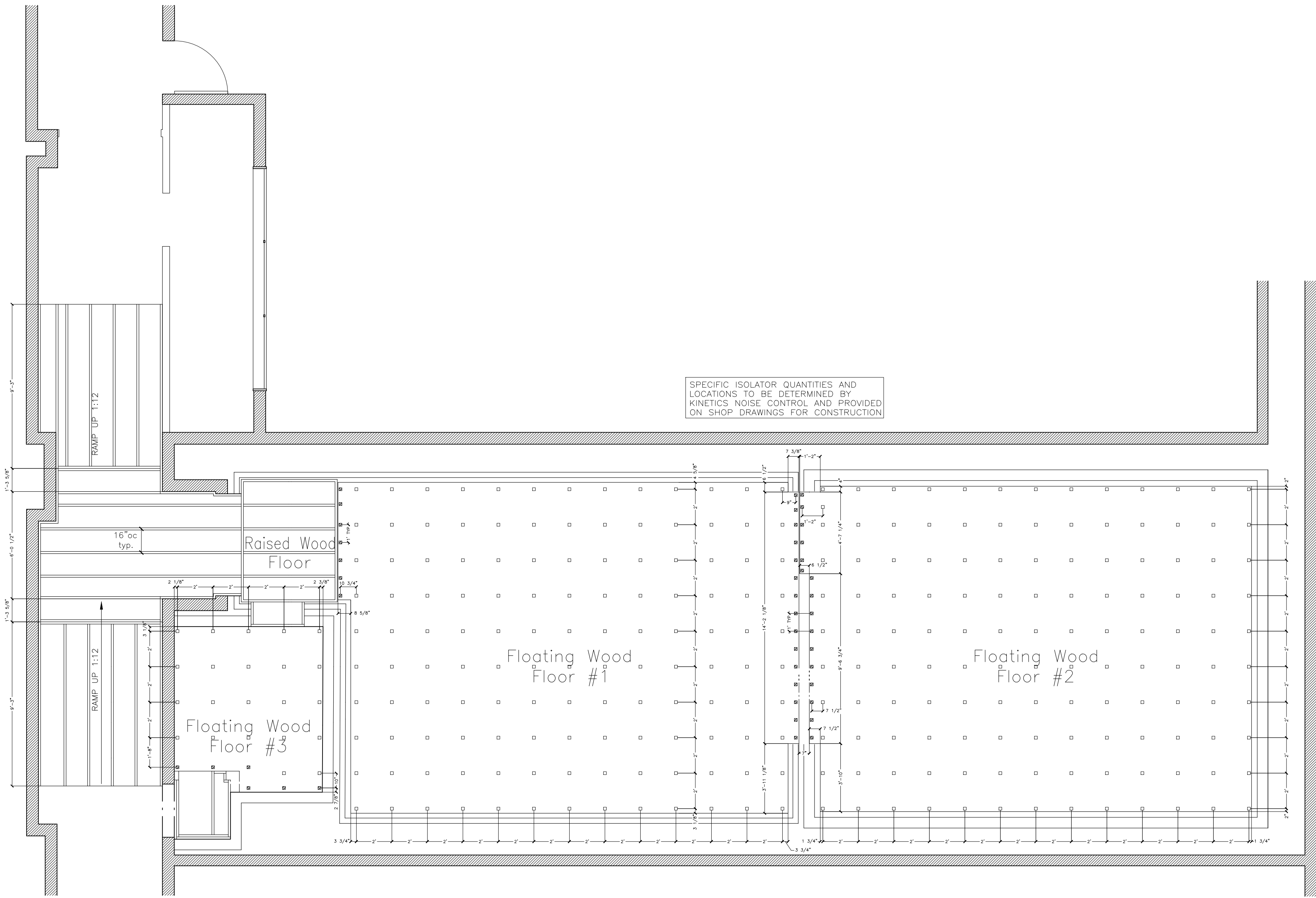
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A-101.00

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SYMBOLS

- A

A12

SECTION OR ELEVATION DESIGNATION
REFER TO PAGE
- EXISTING BUILDING DEMISING WALL
- EXISTING PARTITION TO REMAIN
- NEW FURRING AND GYP. BOARD
- A

A4.3

DETAIL DESIGNATION
REFER TO PAGE
- KINETICS KIP PAD (ADD'L
AT PERIMETER PER KNC)
- KINETICS KIP PAD (INTEGRAL
TO RIM SYSTEM)

Revisions

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PROJECT

Purchase College
Studio A
Renovations

Purchase, NY

DRAWING NAME

RAISED PLATFORM PLAN

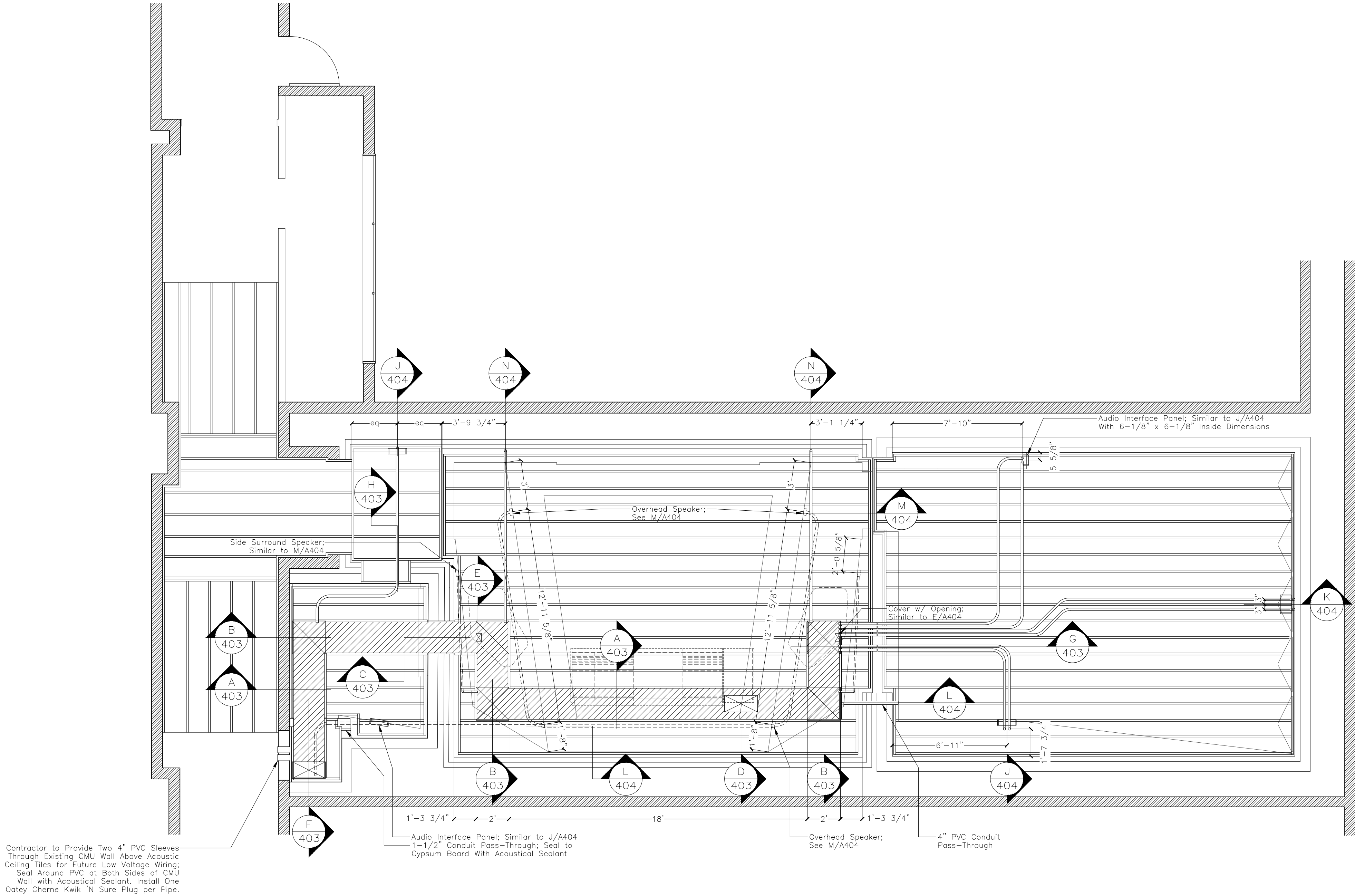
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SYMBOLS

- A

A12

SECTION OR ELEVATION DESIGNATION
REFER TO PAGE

EXISTING BUILDING DEMISING WALL

EXISTING PARTITION TO REMAIN

NEW FURRING AND GYP. BOARD

A

A4.3

DETAIL DESIGNATION
REFER TO PAGE

KINETICS KIP PAD

WIRE TROUGH IN FLOOR SYSTEM

REMOVABLE COVER OVER
WIRE TROUGH IN FLOOR SYSTEM

OPEN UNCOVERED AREA OF
WIRE TROUGH

FLR. MT'D QUAD IG RECEPTACLE
SEE ELECTRICAL PLAN

INDICATES WIRE RUN DIRECTION

I.G. GROUND BUSS BOX.
SEE ELECTRICAL PLAN

PIPE (EMT OR PVC) FROM FLOOR
TROUGH SYSTEM. SEE NOTES.

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PROJECT

Purchase College
Studio A
Renovations

Purchase, NY

DRAWING NAME

AUDIO TROUGH & PIPING PLAN

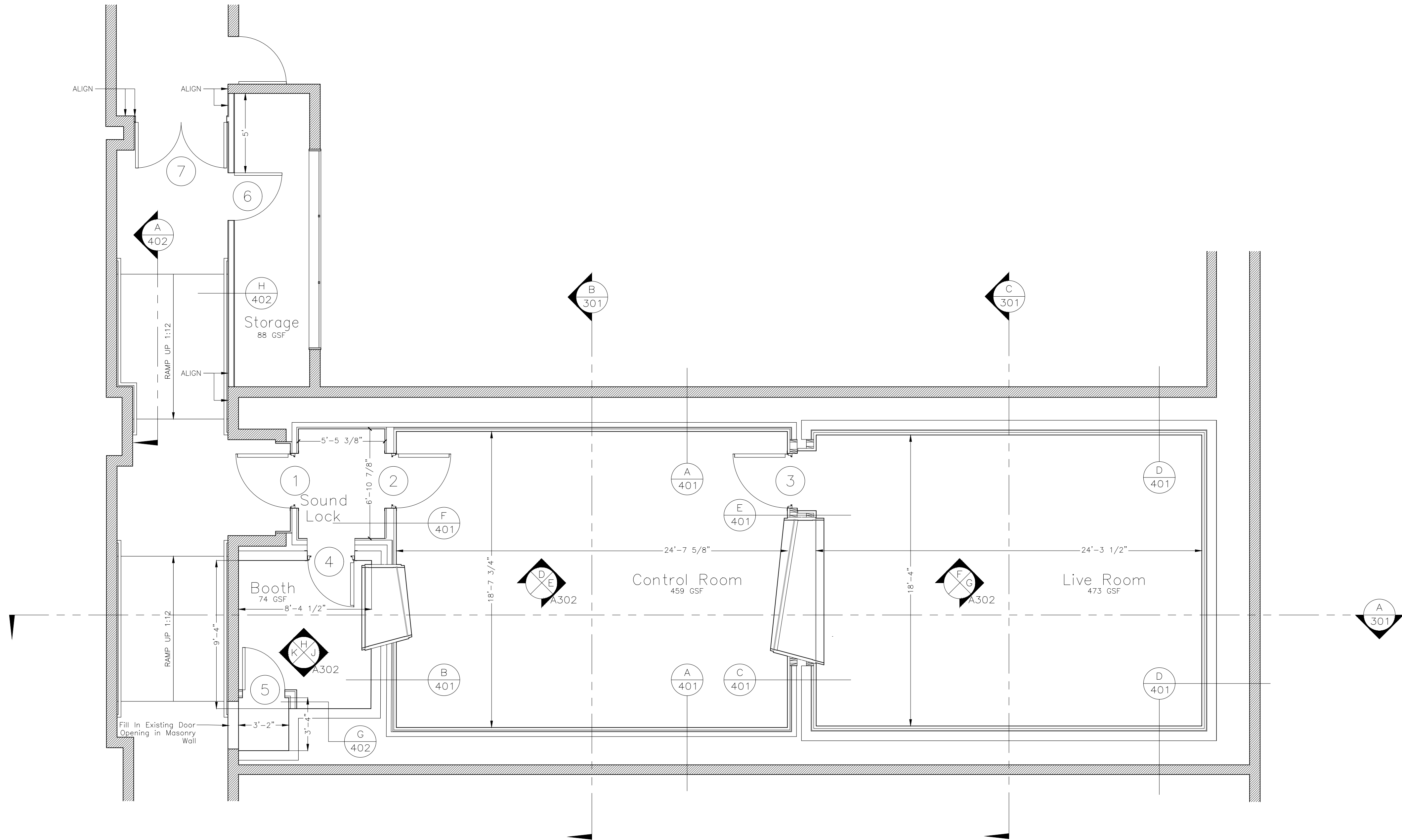
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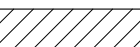
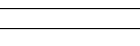


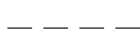
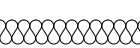
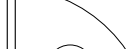


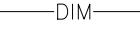

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A-103.00

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SYMBOLS

-  SECTION OR ELEVATION DESIGNATION
REFER TO PAGE
-  EXISTING BUILDING DEMISING WALL
-  EXISTING PARTITION TO REMAIN
-  DETAIL DESIGNATION
REFER TO PAGE
-  NEW PARTITION, SEE DETAIL
-  ELEMENT ABOVE
-  ELEMENT HIDDEN OR BELOW
-  INSULATION AS NOTED
-  DOOR OPENING REFERENCE
-  WINDOW TYPE DESIGNATION
-  DIMENSION TO STUDLINE
-  DIMENSION TO SURFACE

Revisions

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PROJECT

Purchase College
Studio A
Renovations

Purchase, NY

DRAWING NAME

CONSTRUCTION PLAN

SEAL & SIGNATURE

SCALE 1/4"=1'-0"

DATE 07/13/2021

CAD FILE#

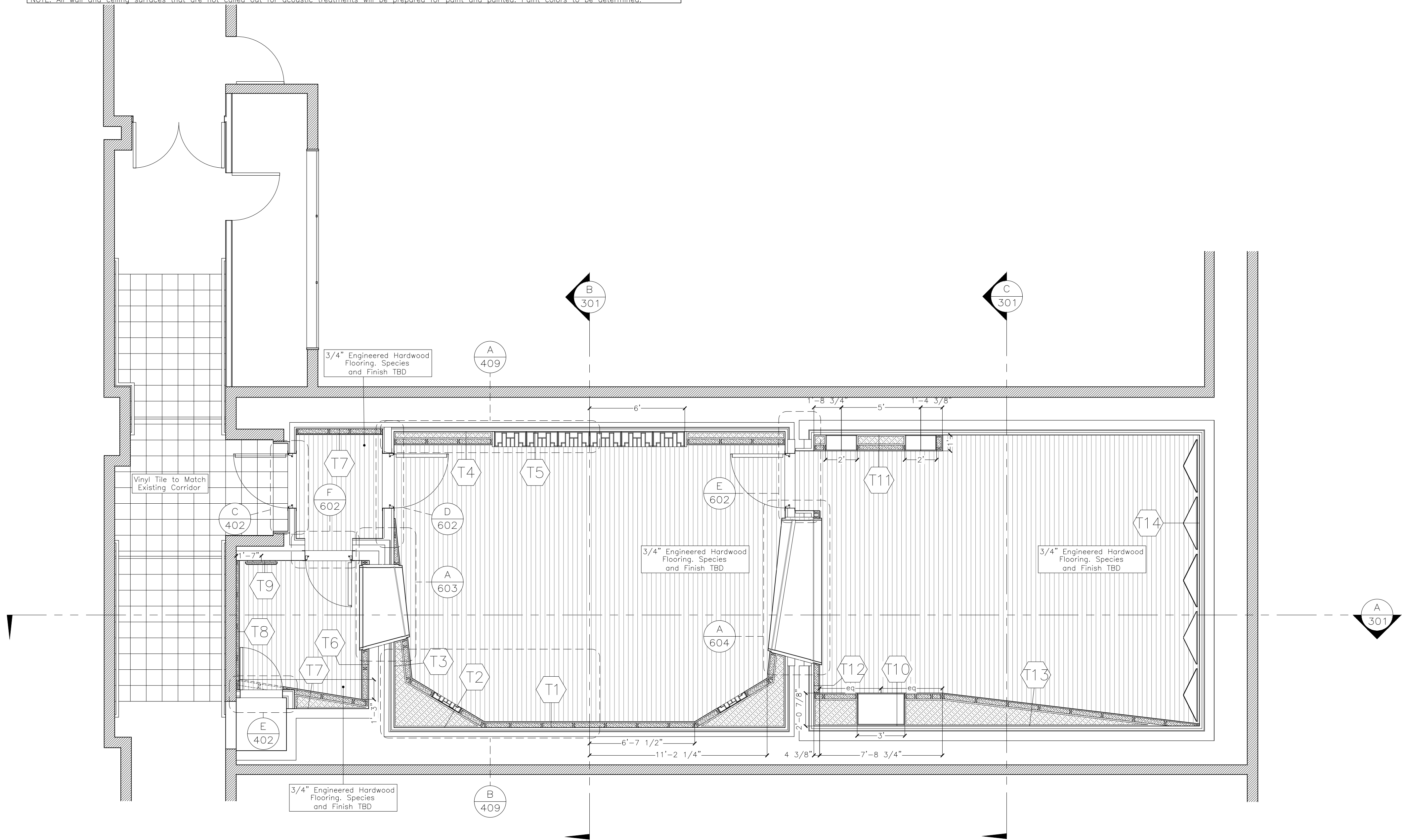
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SHEET

| Acoustic Finish and Treatments Schedule | | | |
|---|---|-----------|-----------------------|
| TREATMENT | DESCRIPTION | DETAIL(S) | MANUFACTURER/SUPPLIER |
| T1 | Fixed Depth Absorptive Treatment, 2x4 Finish Wall Framing 24"oc, 4" #703 Unfaced Rigid Insulation Friction Fit in Framing Bays, Stretched Fabric on Fabric Track Applied to Framing. | A410/T11 | Contractor |
| T2 | Varying Depth w/ Solar 2 Abfuser, 2x4 Finish Wall Framing 24"oc, Loosely Fill Cavity Behind Framing with 3" Unfaced Batt Insulation, 4" #703 Unfaced Rigid Insulation Friction Fit in Framing Bays, RPG Fabric Covered Abfuser Installed in Finished Framing as Shown, Stretched Fabric on Fabric Track Applied to Framing. | A410/T2 | Solar 2/Contractor |
| T3 | Varying Depth Absorptive Treatment, 2x4 Finish Wall Framing 24"oc, Loosely Fill Cavity Behind Framing with 3" Unfaced Batt Insulation, 4" #703 Unfaced Rigid Insulation Friction Fit in Framing Bays, Stretched Fabric on Fabric Track Applied to Framing. | A410/T3 | Contractor |
| T4 | See T3. | A411/T4 | Contractor |
| T5 | Solar2 QRD & Omnidiffuser Diffusers, Diffusers Installed in 2x 3/4" MultiLam Plywood Framed Finish, Plywood Finish Around all 4 Sides of Diffractional Units, See Detail for Diffractional Unit Sizing, Plywood Finish Installed in T3 Varying Depth Absorptive Treatment. | A411/T5 | Solar 2/Contractor |
| T6 | See T1. | A411/T6 | Contractor |
| T7 | See T3. | A412/T7 | Contractor |
| T8 | Fixed Depth Absorptive Treatment, 2x4 Finish Wall Framing 24"oc on Flat, 2" #703 Unfaced Rigid Insulation Friction Fit in Framing Bays, Stretched Fabric on Fabric Track Applied to Framing. | A412/T8 | Contractor |
| T9 | Fabric Wrapped Absorber Panel Attached Directly to Partition as Shown. | A412/T9 | Contractor |
| T10 | See T3. | A413/T10 | Contractor |
| T11 | Varying Depth Helmholtz Slot Treatment, 2x4 Finish Wall Framing 24"oc, Loosely Fill Cavity Behind Framing with 3" Unfaced Batt Insulation, 4" #703 Rigid Insulation Friction Fit in Framing Bays, Stretched Fabric Staped Directly to Finish Framing, Install Solid Wood Slats Directly to Finish Framing as Shown in Detail(s), Run Fabric Horizontally to Conceal Seam Behind Wood Slats. See Detail For Spacing. | A413/T11 | Contractor |
| T12 | See T1. | A413/T12 | Contractor |
| T13 | Acoustic Pyramid Finish. | x | Contractor |
| T14 | Custom Shelving/Storage Set in T10 Finish. | x | Contractor |
| T15 | See T14. | x | Contractor |

NOTE: All wall and ceiling surfaces that are not called out for acoustic treatments will be prepared for paint and painted. Paint colors to be determined.



SYMBOLS

A

A12

SECTION OR ELEVATION DESIGNATION
REFER TO PAGE

T9

FINISH CALLOUT

ELEMENT ABOVE
ELEMENT HIDDEN OR BELOW

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PROJECT

Purchase College
Studio A
Renovations

Purchase, NY

DRAWING NAME

FINISH PLAN

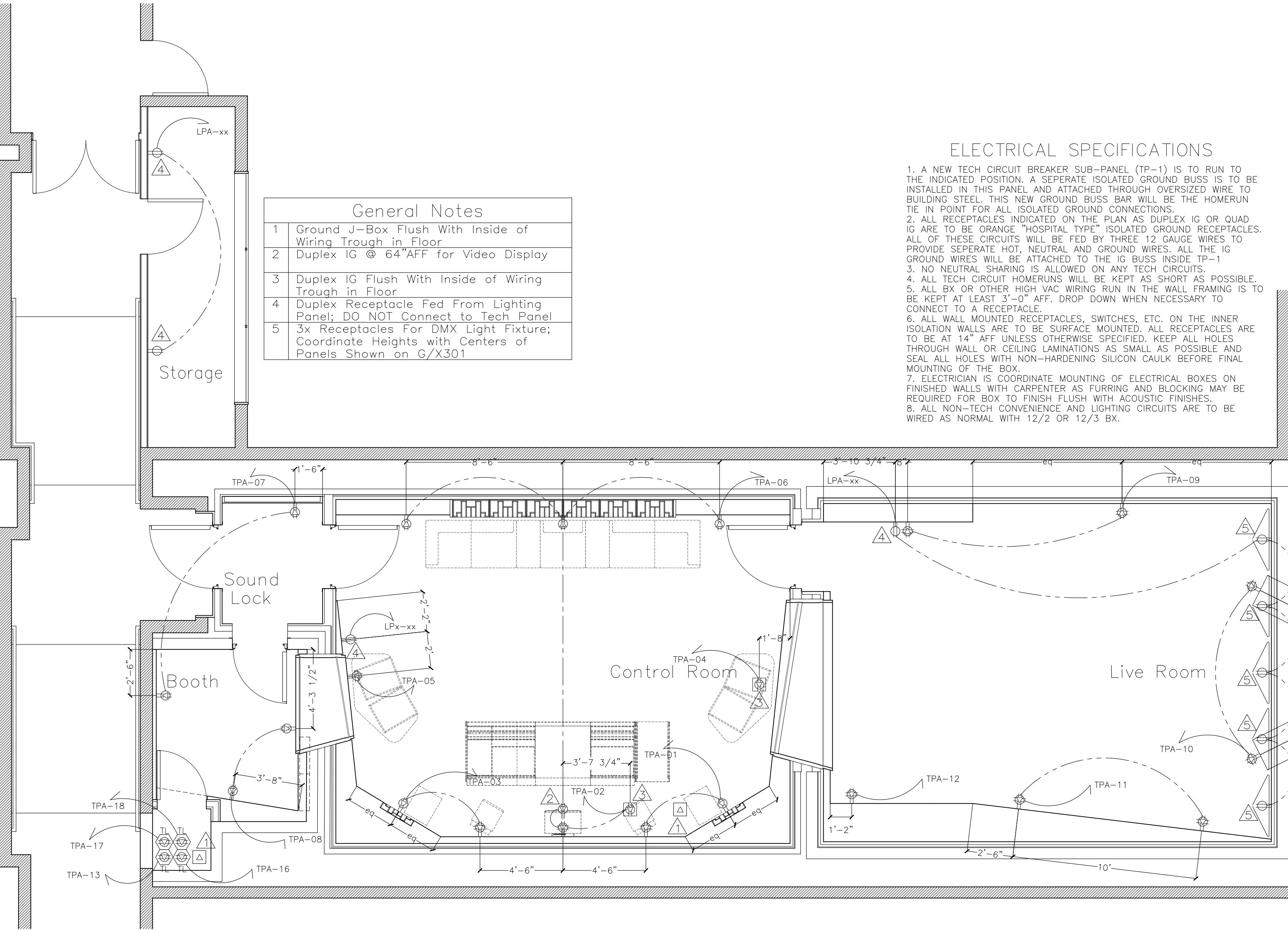
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A-105.00

SHEET



- General Notes
- 1 Ground J-Box Flush With Inside of Wiring Trough in Floor
 - 2 Duplex IG @ 64" AFF for Video Display
 - 3 Duplex IG Flush With Inside of Wiring Trough in Floor
 - 4 Duplex Receptacle Fed From Lighting Panel; DO NOT Connect to Tech Panel
 - 5 3x Receptacles For DMX Light Fixture; Coordinate Heights with Centers of Panels Shown on G/X301

- ELECTRICAL SPECIFICATIONS
1. A NEW TECH CIRCUIT BREAKER SUB-PANEL (TP-1) IS TO RUN TO THE INDICATED POSITION. A SEPERATE ISOLATED GROUND BUSS IS TO BE INSTALLED IN THIS PANEL AND ATTACHED THROUGH OVERSIZED WIRE TO BUILDING STEEL. THIS NEW GROUND BUSS BAR WILL BE THE HOMERUN TIE IN POINT FOR ALL ISOLATED GROUND CONNECTIONS.
 2. ALL RECEPTACLES INDICATED ON THE PLAN AS DUPLEX IG OR QUAD IG ARE TO BE ORANGE "HOSPITAL TYPE" ISOLATED GROUND RECEPTACLES. ALL OF THESE CIRCUITS WILL BE FED BY THREE 12 GAUGE WIRES TO PROVIDE SEPERATE HOT, NEUTRAL AND GROUND WIRES. ALL THE IG GROUND WIRES WILL BE ATTACHED TO THE IG BUSS INSIDE TP-1
 3. NO NEUTRAL SHARING IS ALLOWED ON ANY TECH CIRCUITS.
 4. ALL TECH CIRCUIT HOMERUNS WILL BE KEPT AS SHORT AS POSSIBLE.
 5. ALL BX OR OTHER HIGH VAC WIRING RUN IN THE WALL FRAMING IS TO BE KEPT AT LEAST 3'-0" AFF. DROP DOWN WHEN NECESSARY TO CONNECT TO A RECEPTACLE.
 6. ALL WALL MOUNTED RECEPTACLES, SWITCHES, ETC. ON THE INNER ISOLATION WALLS ARE TO BE SURFACE MOUNTED. ALL RECEPTACLES ARE TO BE AT 14" AFF UNLESS OTHERWISE SPECIFIED. KEEP ALL HOLES THROUGH WALL OR CEILING LAMINATIONS AS SMALL AS POSSIBLE AND SEAL ALL HOLES WITH NON-HARDENING SILICON CAULK BEFORE FINAL MOUNTING OF THE BOX.
 7. ELECTRICIAN IS COORDINATE MOUNTING OF ELECTRICAL BOXES ON FINISHED WALLS WITH CARPENTER AS FURRING AND BLOCKING MAY BE REQUIRED FOR BOX TO FINISH FLUSH WITH ACOUSTIC FINISHES.
 8. ALL NON-TECH CONVENIENCE AND LIGHTING CIRCUITS ARE TO BE WIRED AS NORMAL WITH 12/2 OR 12/3 BX.

| TECH POWER PANEL TPA | | | | | | | | | | | | | |
|----------------------|----------------|-----------------|------|------------|-------------|--------------|--------|-----------------|-----------------|------------------------|------|----------------------|--------------|
| SERVICE 120/208V | | PHASE 3 | | POLES 3 | | WIRES 5 | | SIZE 100A | | ISOLATED GROUND YES | | BALANCED POWER NO | |
| CKT # | DESIGNATION | BREAKER TRIP | POLE | VOLT | KVA LOAD | WIRE SIZE | CKT # | DESIGNATION | BREAKER TRIP | POLE | VOLT | KVA LOAD | WIRE SIZE |
| TPA-1 | MON/SUB LEFT | 20A | 1 | 120 | 1.1 | #12 A | TPA-2 | MON CTR/DISPLAY | 20A | 1 | 120 | 0.8 | #12 |
| TPA-3 | MON/SUB RIGHT | 20A | 1 | 120 | 1.1 | #12 B | TPA-4 | CREDENZA LEFT | 20A | 1 | 120 | 0.8 | #12 |
| TPA-5 | CREDENZA RIGHT | 20A | 1 | 120 | 0.8 | #12 C | TPA-6 | CONTROL RM CONV | 20A | 1 | 120 | 0.3 | #12 |
| TPA-7 | SOUND LOCK/ISO | 20A | 1 | 120 | 0.3 | #12 A | TPA-8 | ISO BOOTH | 20A | 1 | 120 | 0.3 | #12 |
| TPA-9 | LIVE RM CONV 1 | 20A | 1 | 120 | 0.3 | #12 B | TPA-10 | LIVE RM CONV 2 | 20A | 1 | 120 | 0.3 | #12 |
| TPA-11 | LIVE RM CONV 3 | 20A | 1 | 120 | 0.3 | #12 C | TPA-12 | LIVE RM CONV 4 | 20A | 1 | 120 | 0.3 | #12 |
| TPA-13 | EQUIP RACK 1 | 20A | 1 | 120 | 1.7 | #12 A | TPA-14 | --spare-- | 20A | 1 | 120 | | |
| TPA-15 | --spare-- | 20A | 1 | 120 | | B | TPA-16 | EQUIP RACK 2 | 20A | 1 | 120 | 1.7 | #12 |
| TPA-17 | EQUIP RACK 3 | 20A | 1 | 120 | 1.3 | #12 C | TPA-18 | EQUIP RACK 4 | 20A | 1 | 120 | 1.3 | #12 |
| TPA-19 | | | | | | A | TPA-20 | | | | | | |
| TPA-21 | | | | | | B | TPA-22 | | | | | | |
| TPA-23 | | | | | | C | TPA-24 | | | | | | |
| TPA-25 | | | | | | A | TPA-26 | | | | | | |
| TPA-27 | | | | | | B | TPA-28 | | | | | | |
| TPA-29 | | | | | | C | TPA-30 | | | | | | |

A = 4.2 KVA

B = 4.2 KVA

C = 4.3 KVA

TOTAL KVA PANEL = 12.7 KVA

A = 4.2 KVA B = 4.2 KVA C = 4.3 KVA TOTAL KVA FOR PANEL = 12.7 KVA

- SYMBOLS
- STANDARD DUPLEX RECEPTACLE
 - GROUND FAULT INDICATING DUPLEX RECEPTACLE
 - ISOLATED GROUND DUPLEX RECEPTACLE
 - ISOLATED GROUND L5-20 TWISTLOCK RECEPTACLE
 - ISOLATED GROUND L5-20 TWISTLOCK RECEPTACLE MOUNTED OVERHEAD IN CEILING
 - 30AMP ISOLATED GROUND CIRCUIT. USE #10 WIRE AND 30AMP BREAKER AT PANEL.
 - ISOLATED GROUND QUAD RECEPTACLE
 - FLOOR MTD ISOLATED GROUND QUAD RECEPT.
 - DIRECTION OF WIRE RUN TO RECEPT.
 - GROUND J -BOX
 - TELCO/DATA JACK NUMBER OF CAT6 WIRES TO EACH
 - HOMERUN CIRCUITING
 - CKT X CIRCUIT DESIGNATION

| Revisions | | | |
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PROJECT

Purchase College
Studio A
Renovations

Purchase, NY

DRAWING NAME

ELECTRICAL PLAN

SEAL & SIGNATURE

SCALE 1/4"=1'-0"

DATE 07/13/2021

CAD FILE#

DRAWING NUMBER

A-106.00

SHEET

SYMBOLS

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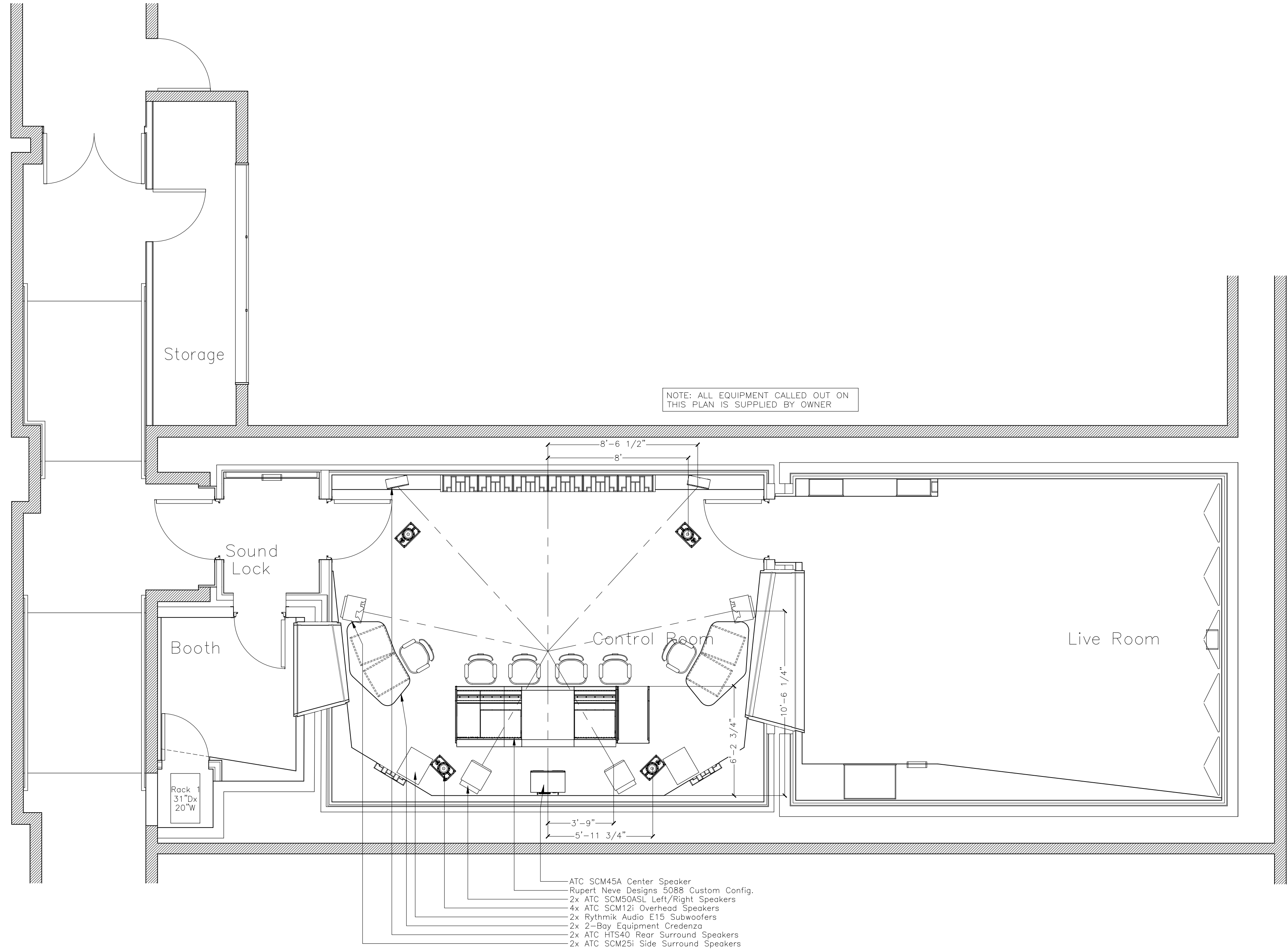
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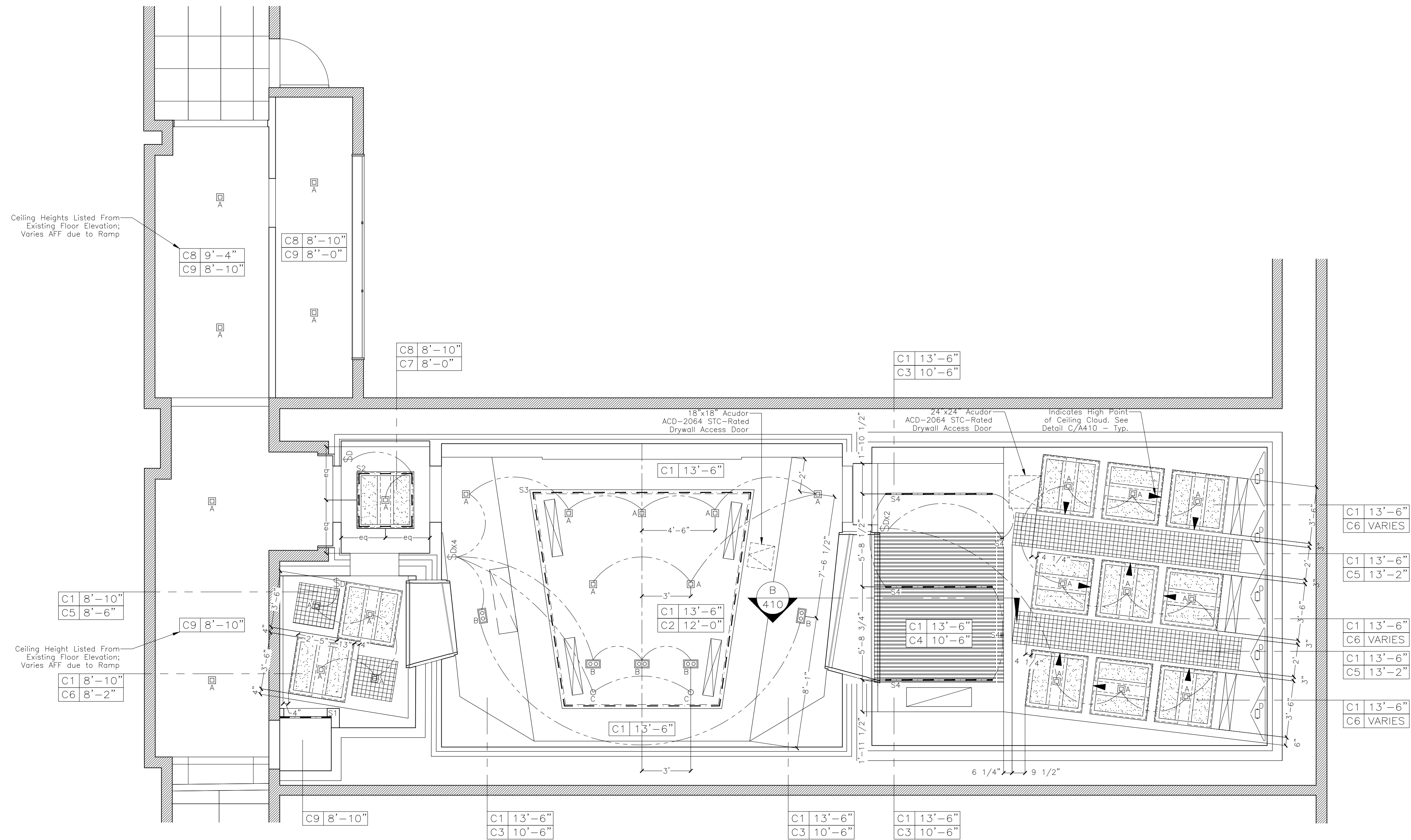
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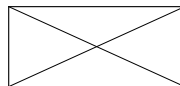
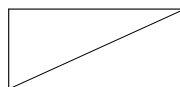
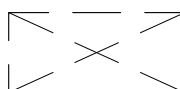
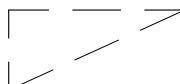







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| | DRAWING NUMBER | A-107.00 |
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| LIGHTING FIXTURE SCHEDULE | | | | |
|---------------------------|---|----------------------|-------------|-----------------|
| FIXTURE | MANUFACTURER AND MODEL | LAMP INFO | COLOR INFO | CUT OUT |
| A | WAC Aether 3.5" 0°-30° Adjustable Trim Square; R3ASAT-RP30-IHWMT | 15.5W 3K LEDs | Haze/White | 4 5/8" |
| B | WAC 2-Light 4" LED Precision Modules; MT-4LD2161-WT Trim And MT-4LD211NE-F-R-930-BK ELV Dimming IC Trim Housing. | 2 x 23W 3K LEDs | White/Black | 3 3/4" x 4 1/8" |
| | WAC Extremator II Monopoint Luminaires; MO-1014F-930-BK Chauvet DU SimpAR T681 RGB Wash Light (14 Total Fixtures); Provide Hardware as Req. Mount to Square Jubing Behind T14 Panels; Refer to E Series Drawings for DMX Control. | 14W 3K LED | Black | --no-- |
| | PLT 2835-60-IP65-WW4250NHC 3K 24V 90CRI LED Tape Light (n3") Mounted in KLUS LIP020 Channel with LUGR-22 Frosted Cover. | 6 x 2.5W RGB LEDs | Black | --no-- |
| S1 | Magnitude M40L24DC-AR Dimmable LED Driver. | 3.5W/Ht. 3K LEDs | --no-- | --no-- |
| S2 | PLT 2835-60-IP65-WW4250NHC 3K 24V 90CRI LED Tape Light (n14") Total With Magnate M40L24DC Dimmable LED Driver. | 3.5W/Ht. 3K LEDs | --no-- | --no-- |
| S3 | PLT 5050-60-IP65-RGB2450 Nano RGB 24V 90CRI LED Tape Light (Cut Total) Mounted in KLUS MICRO-ALU Channel With Mean Well RS-350-24 Power Supply. Refer to E Series Drawings for Controls. | 4.5W/Ht. RGB LEDs | --no-- | --no-- |
| S4 | PLT 2835-60-IP65-WW4250NHC 3K 24V 90CRI LED Tape Light (m26") Mounted in KLUS LIP020 Channel with LUGR-22 Frosted Cover. | 3.5W/Ht. 3K LEDs | --no-- | --no-- |
| | Magnitude M150L24DC-AR Dimmable LED Driver. | | | |

| Ceiling Type Schedule | | |
|-----------------------|---|----------|
| C1 | 3 Layers Laminations, 7/8" Drywall Furring Channel, 1-1/2" "C" Channel, & Kinetics Gotham Ceiling Isolation Hangers | See A401 |
| C2 | Stretched Fabric Wood Framed Acoustic "Cloud" With Cove Light Lip Detail | See A410 |
| C3 | Stretched Fabric Wood Framed Acoustic Soffit | See A405 |
| C4 | Wood Slat Ceiling Inset Into C3 Wood Framed Acoustic Soffit | See A410 |
| C5 | Surface Mounted Omnidirectional Style Acoustic Diffuser | See A407 |
| C6 | Refinished Wood Frames Salvaged From Existing Studio; New Fabric-Wrapped Panel Inserts & Openings for Recessed Lighting | See A410 |
| C7 | Similar to C6 With LED Uplighting Detail | See A410 |
| C8 | 5/8" Type-X Gypsum Board Ceiling - 2 Layers at Sound 120 @ or 7" Drywall Furring Channel & 1-1/2" "C" Channel | See A402 |
| C9 | Armstrong Calla Acoustic Ceiling Tiles in Suspended 2'x2' Square Grid | See A402 |



| | | |
|---|--------------------------------------|-----------------------------|
| | | CEILING DESIGNATION |
| C4 | 9'-0" | HEIGHT ABOVE FINISHED FLOOR |
|  | HVAC SUPPLY REGISTER, CEILING MT'D | |
|  | HVAC RETURN REGISTER, CEILING MT'D | |
|  | HVAC SUPPLY REGISTER, SIDE MT'D | |
|  | HVAC RETURN REGISTER, SIDE MT'D | |
|  | SPRINKLER HEAD LOCATION | |
|  | THERMOSTAT | |
|  | RECESSED LIGHT FIXTURE. SEE SCHEDULE | |
|  | TRACK FIXTURE. SEE SCHEDULE | |
|  | SCONSE FIXTURE. SEE SCHEDULE | |
|  | LIGHT SWITCH 48" AFF | |
|  | DIMMED LIGHT SWITCH 48" AFF | |

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PROJECT

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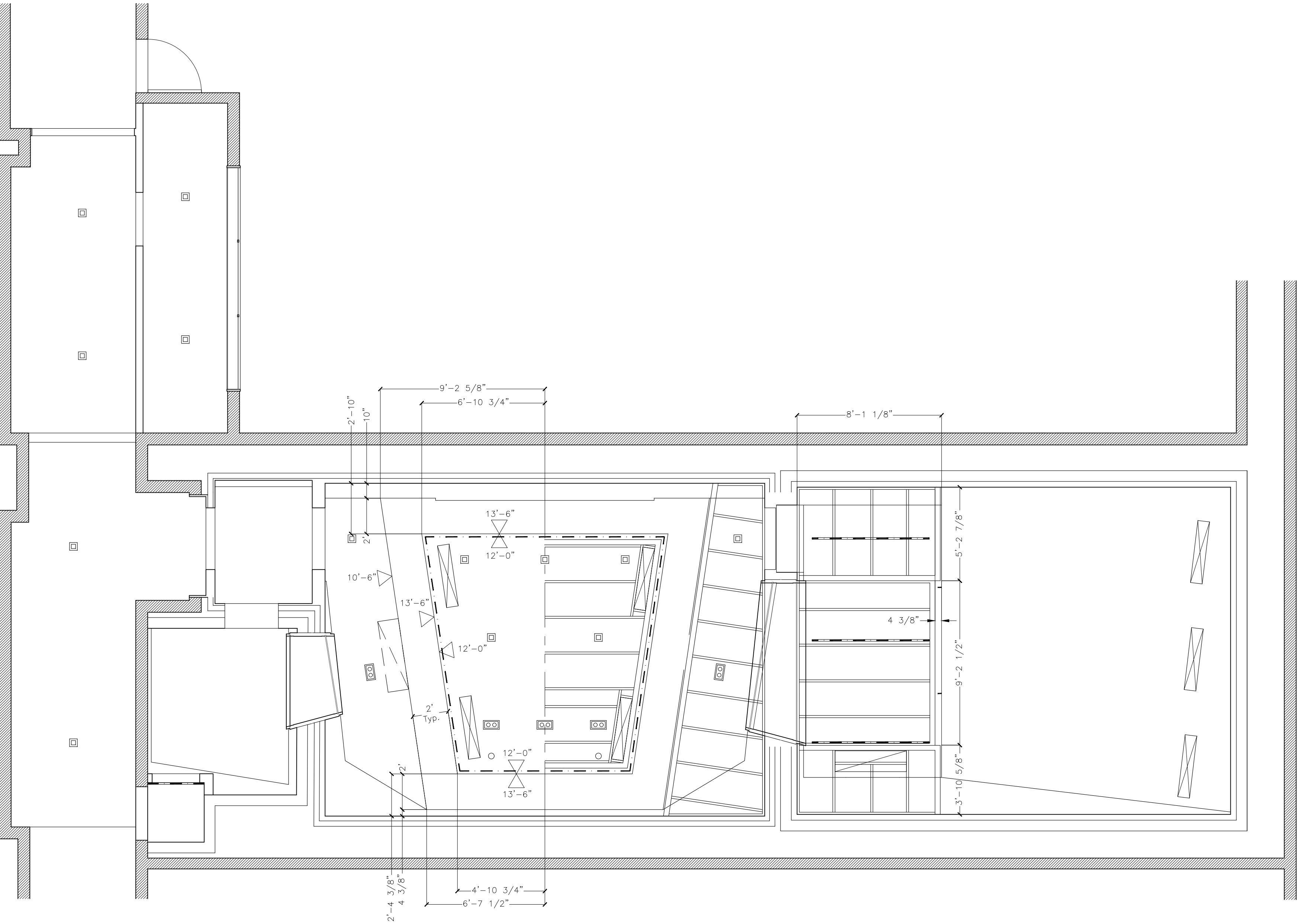
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REFLECTED CEILING PLAN

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| | SHEET | |

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SYMBOLS

| | |
|--|------------------------------------|
| | SPOT ELEVATION INDICATION |
| | HVAC SUPPLY REGISTER, CEILING MT'D |
| | HVAC RETURN REGISTER, CEILING MT'D |
| | HVAC SUPPLY REGISTER, SIDE MT'D |
| | HVAC RETURN REGISTER, SIDE MT'D |
| | SPRINKLER HEAD LOCATION |
| | THERMOSTAT |

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REFLECTED SOFFIT FRAMING

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SYMBOLS

- DIRECTION OF 1-1/2" COLD ROLLED STEEL CHANNEL
- DIRECTION OF 7/8" DRYWALL FURRING CHANNEL
- KINETICS GOTHAM SPRING ISOLATION CEILING HANGER (CAPACITIES PER KINETICS SHOP DRAWINGS)

Revisions

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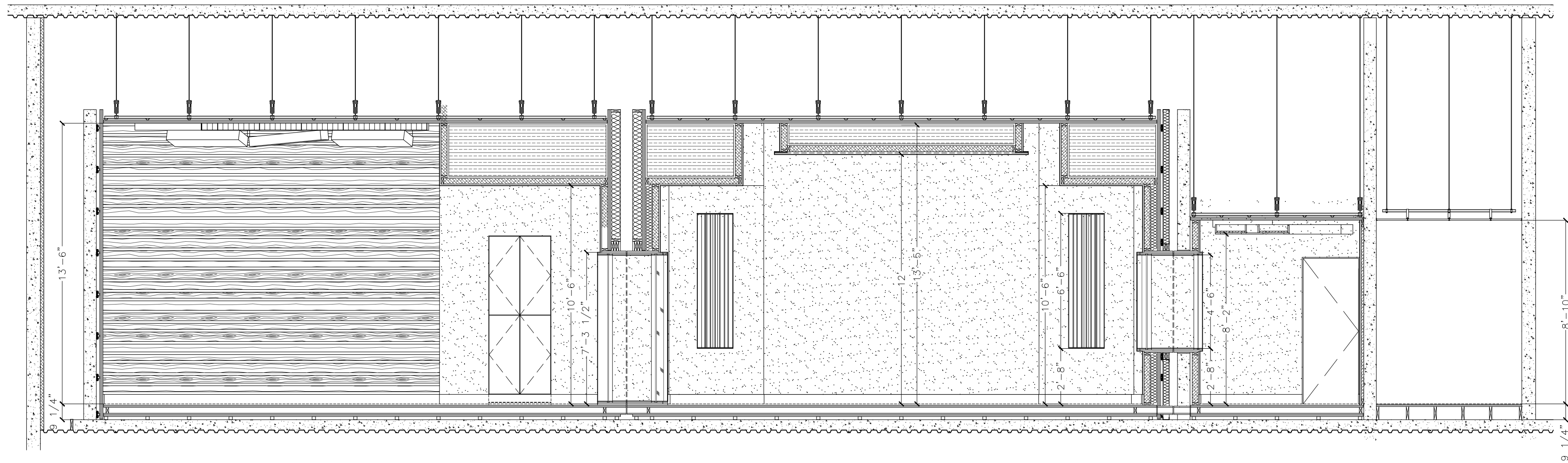
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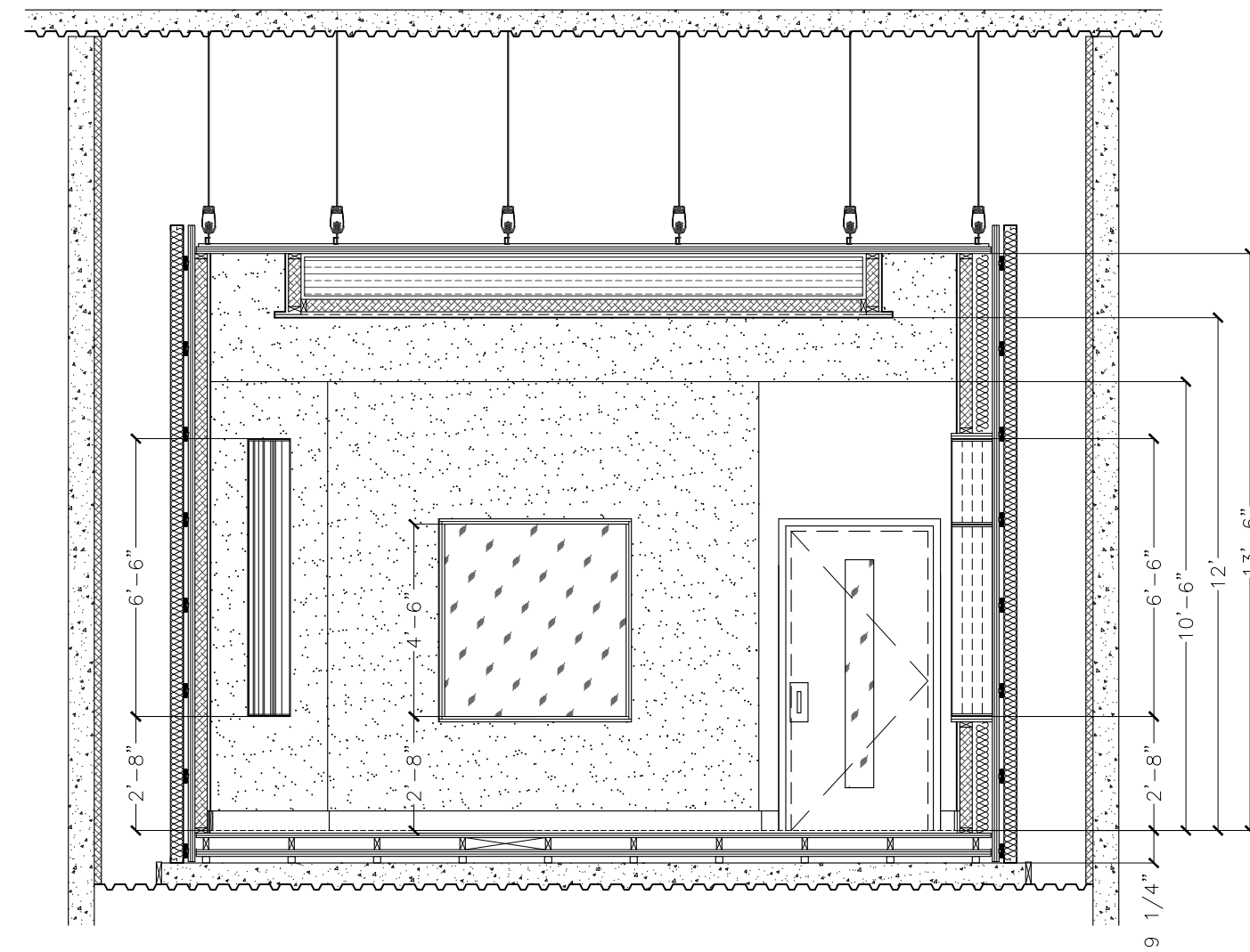
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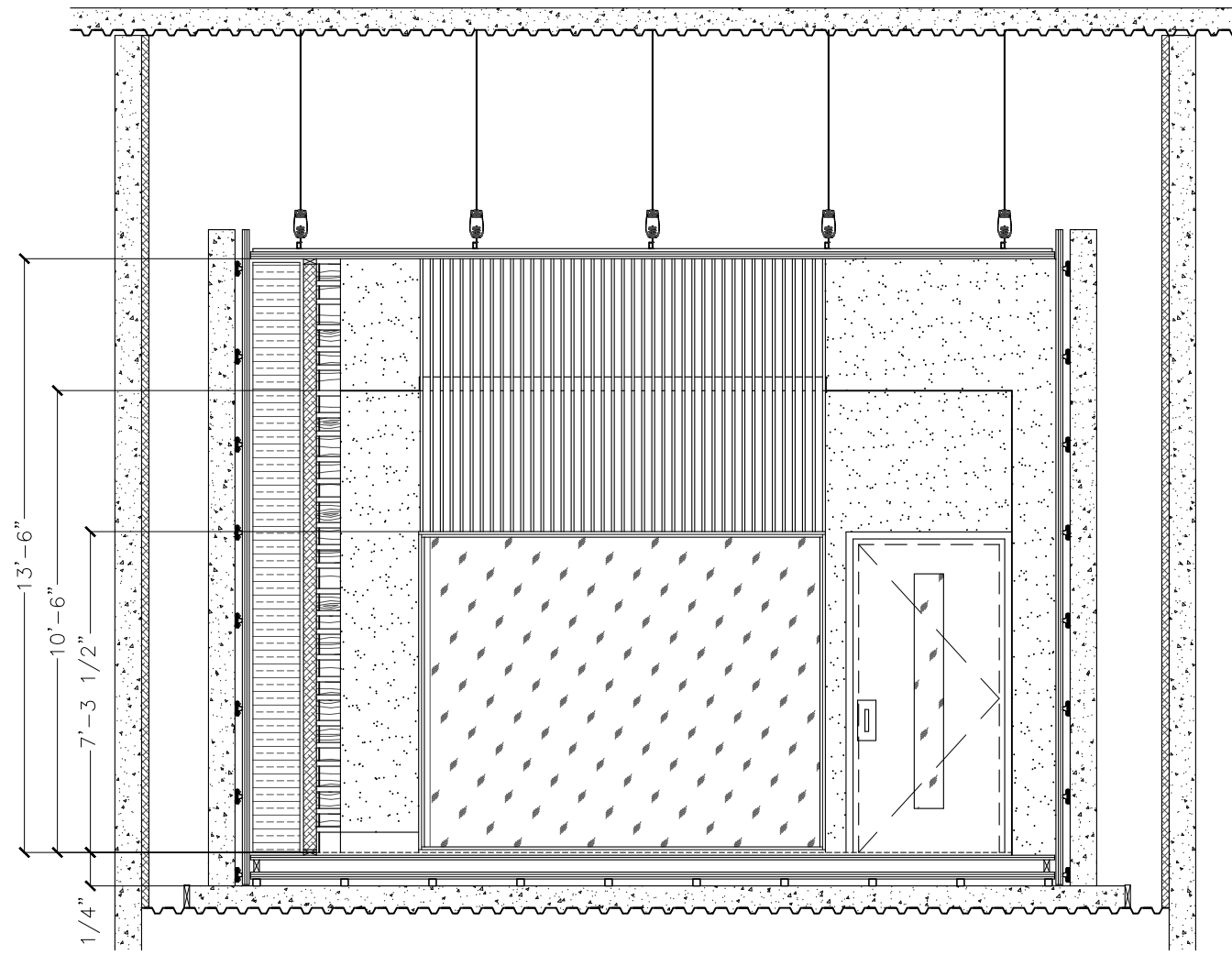
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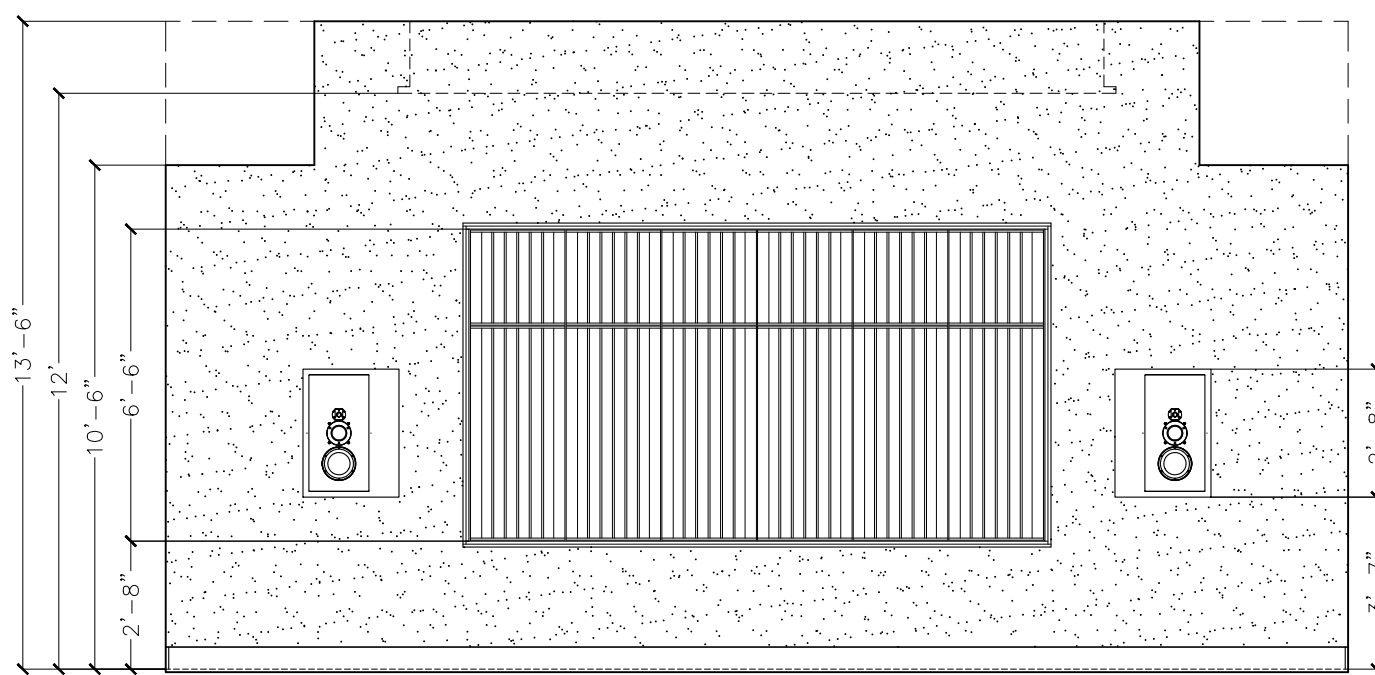
A Section South



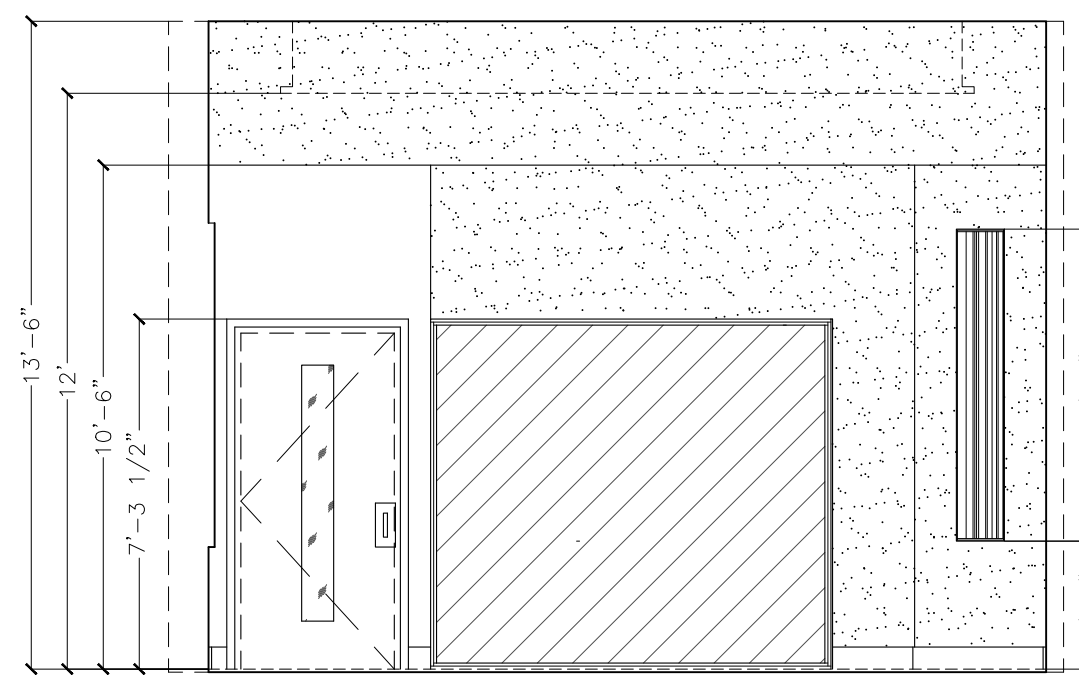
B Section West



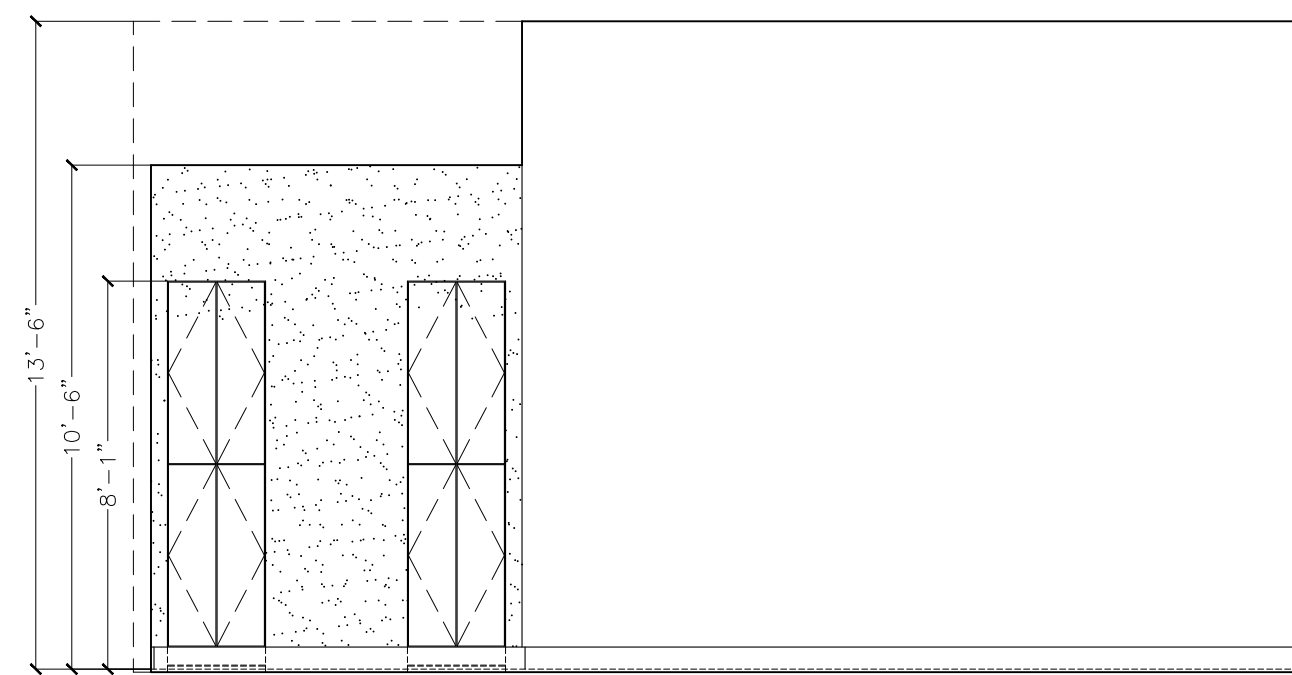
C Section West



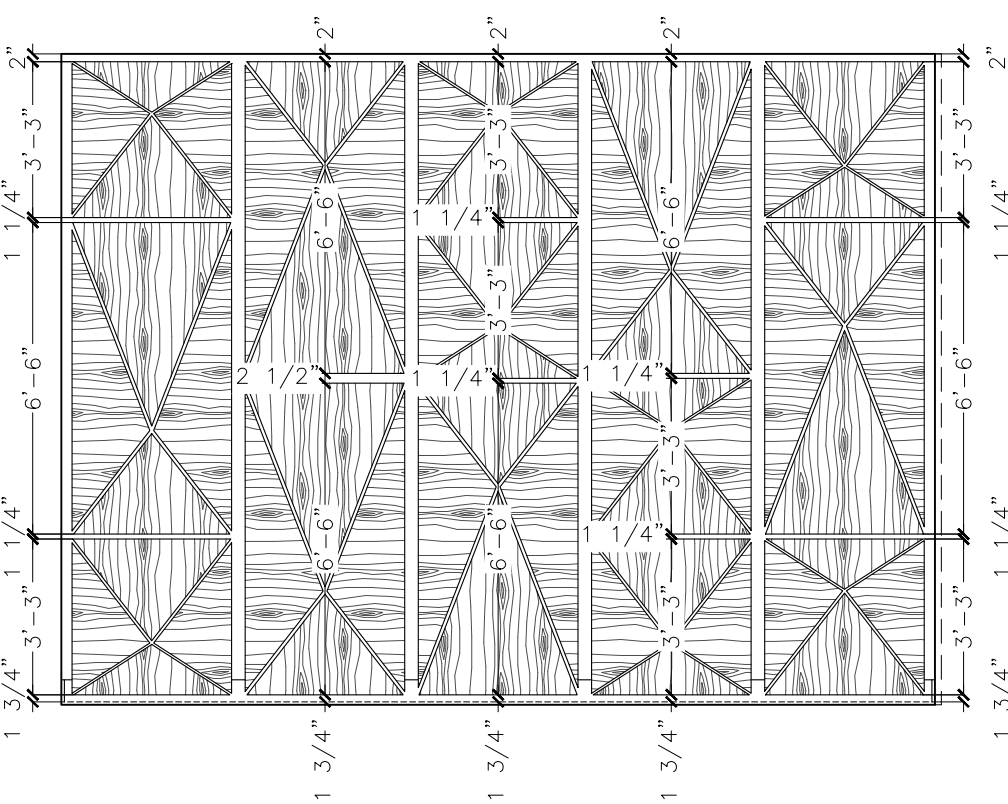
D Elevation Control Room North



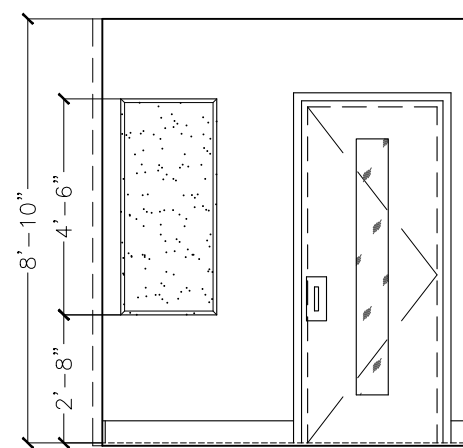
E Elevation Control Room East



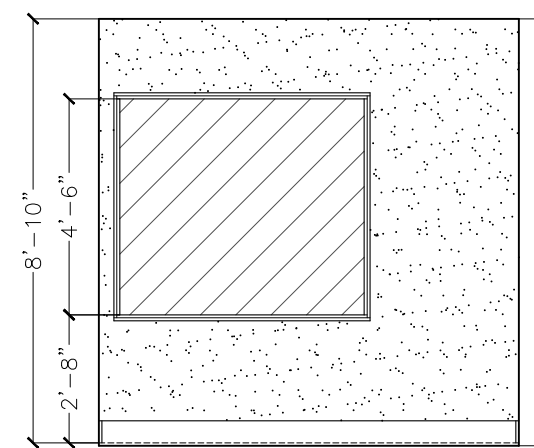
F Elevation Live Room North



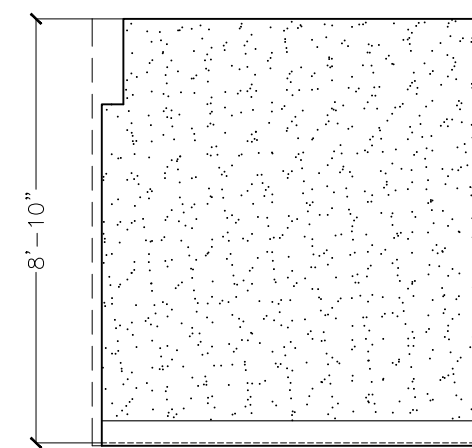
G Elevation Live Room East



H Elevation Sound Lock North



J Elevation Live Room East



K Elevation Live Room West

SYMBOLS

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Renovations

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DRAWING NAME

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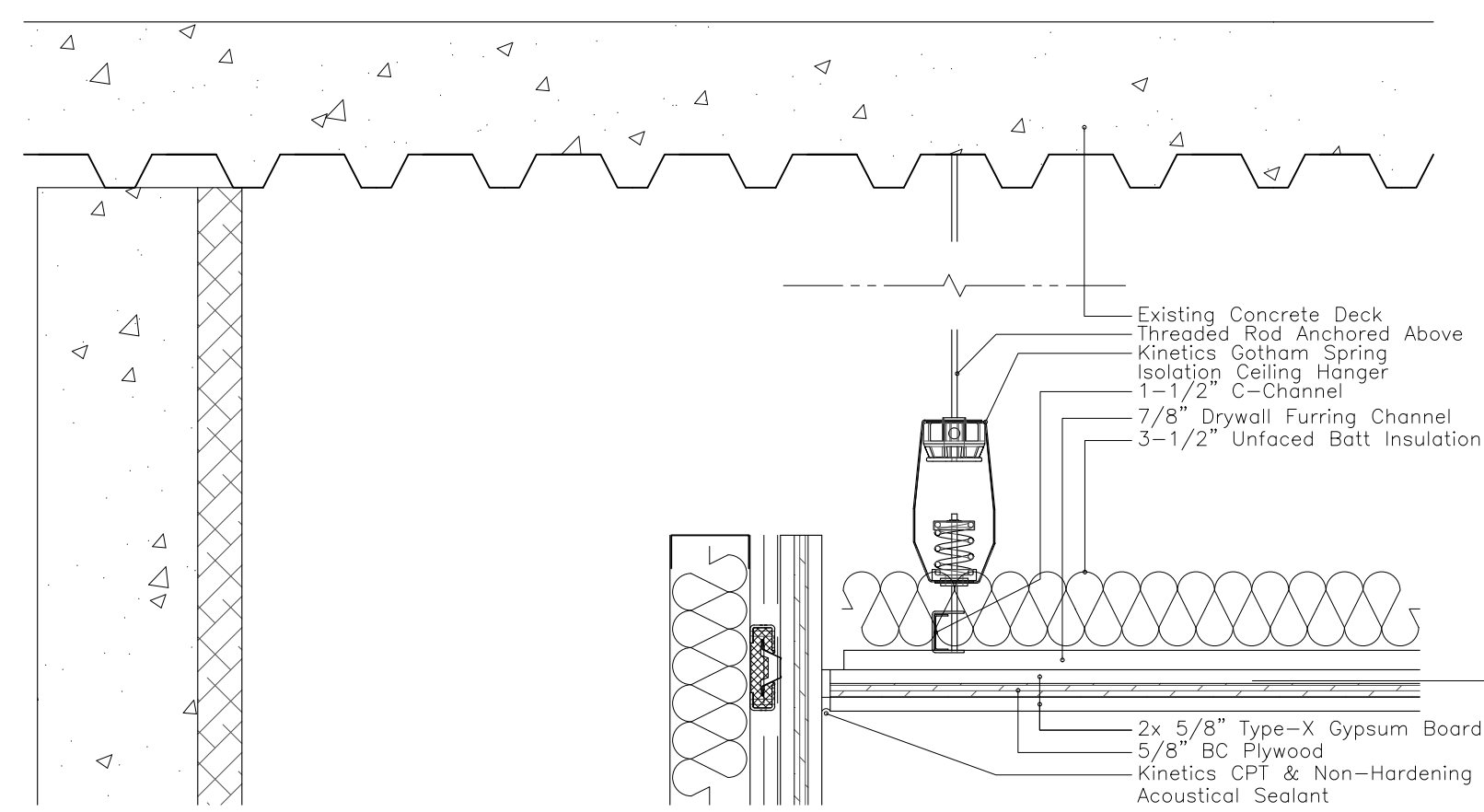
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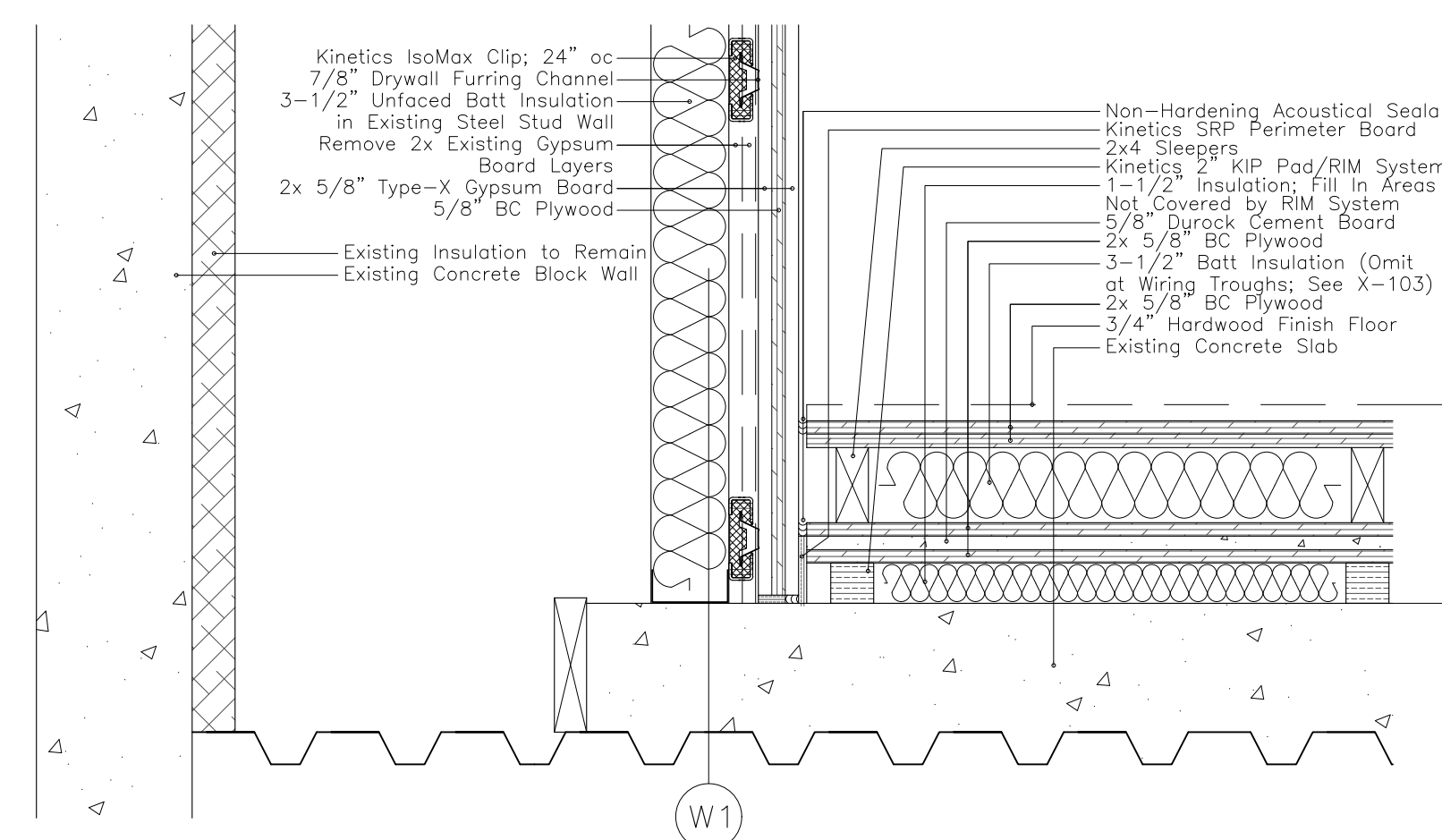
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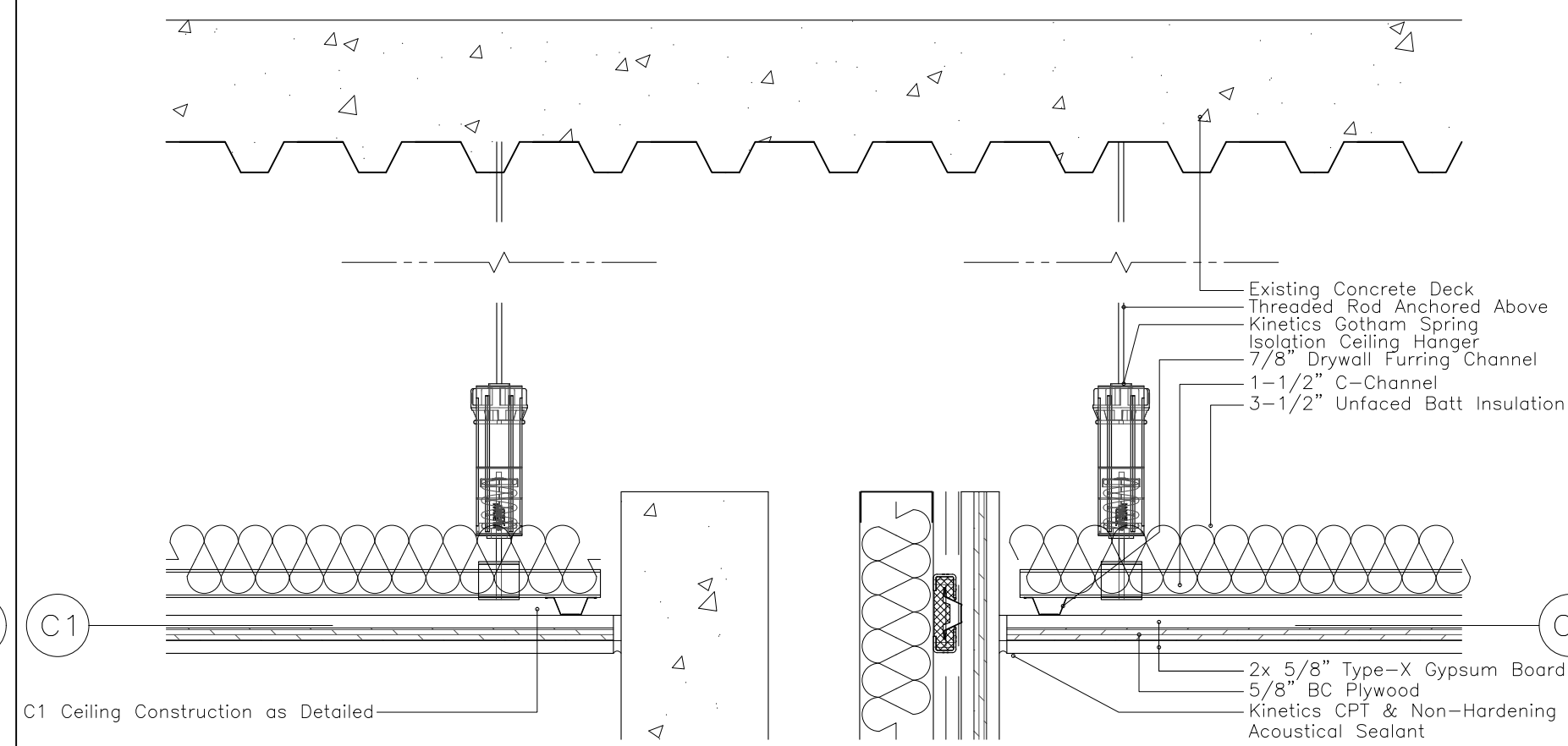
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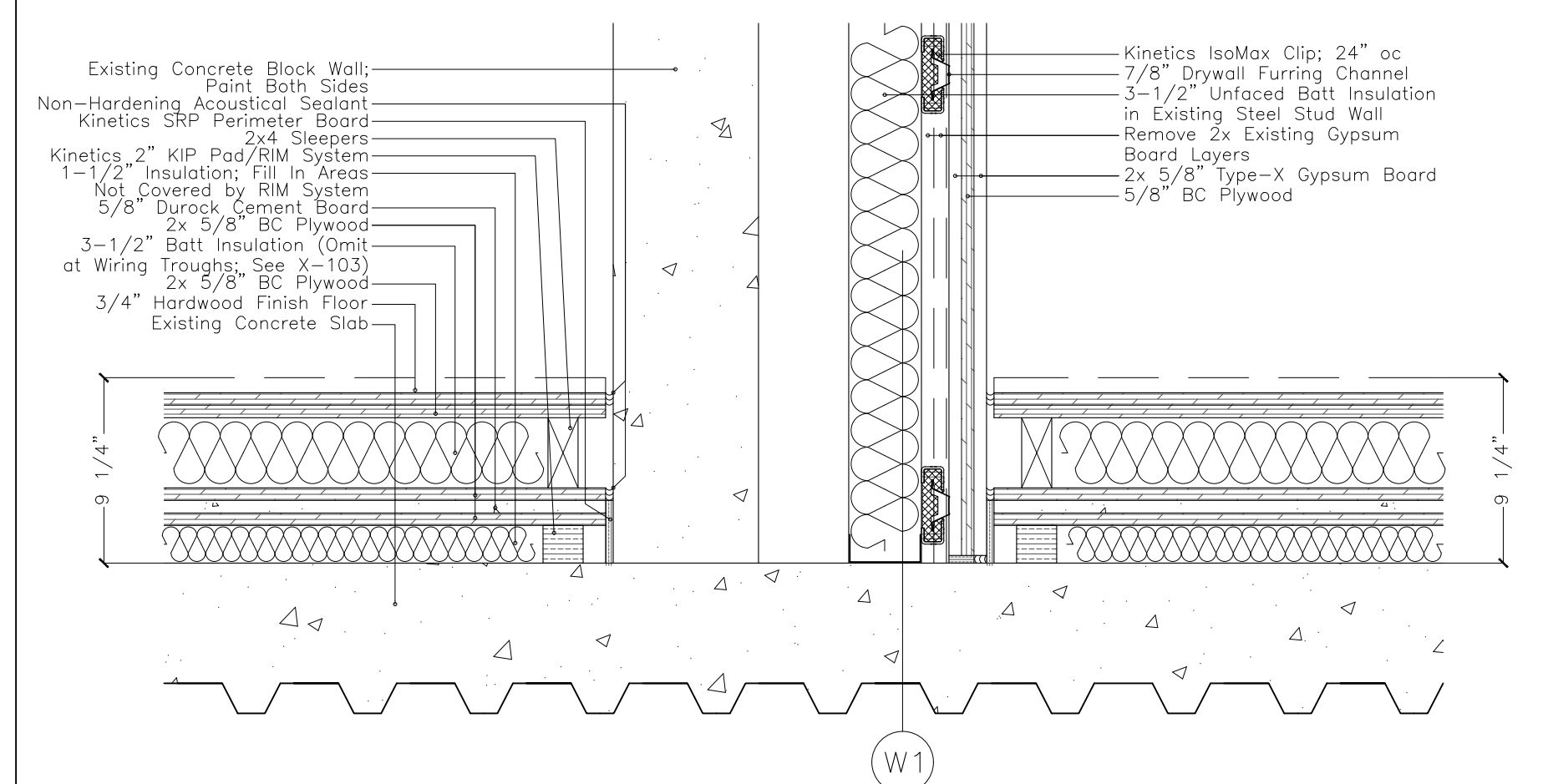
DEMISE ———— ———— CONTROL ROOM



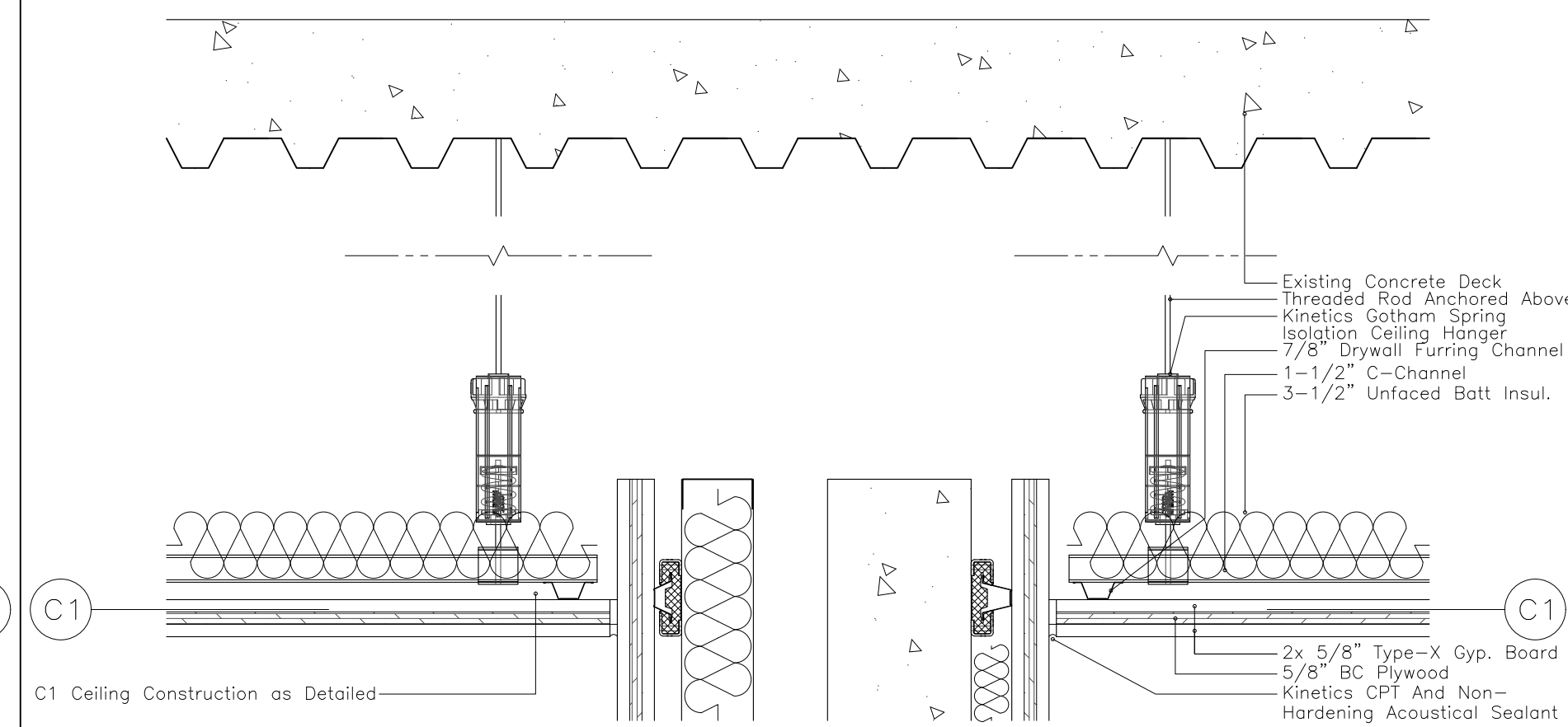
(A) Shell Construction



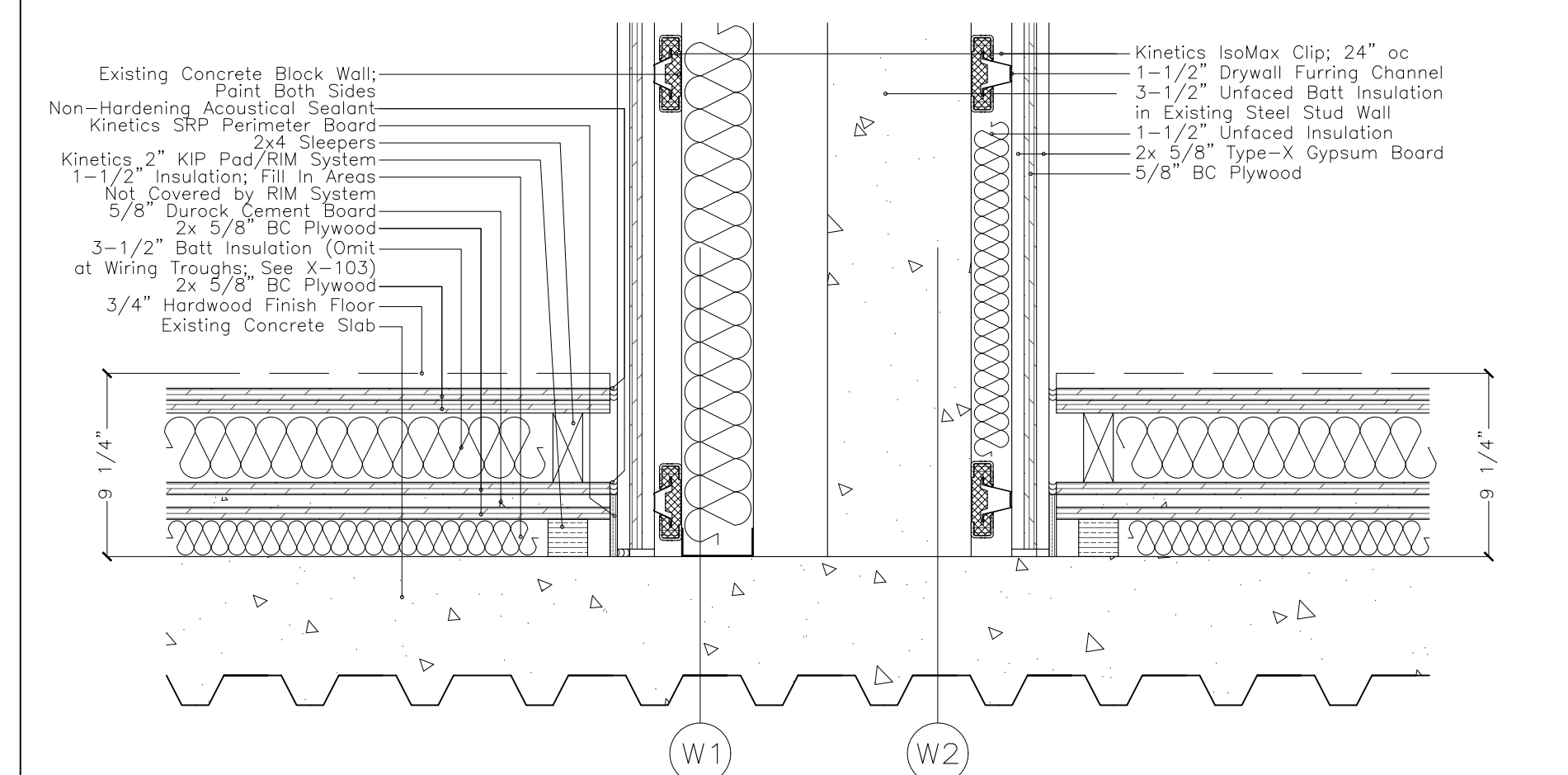
C1 Ceiling Construction as Detailed



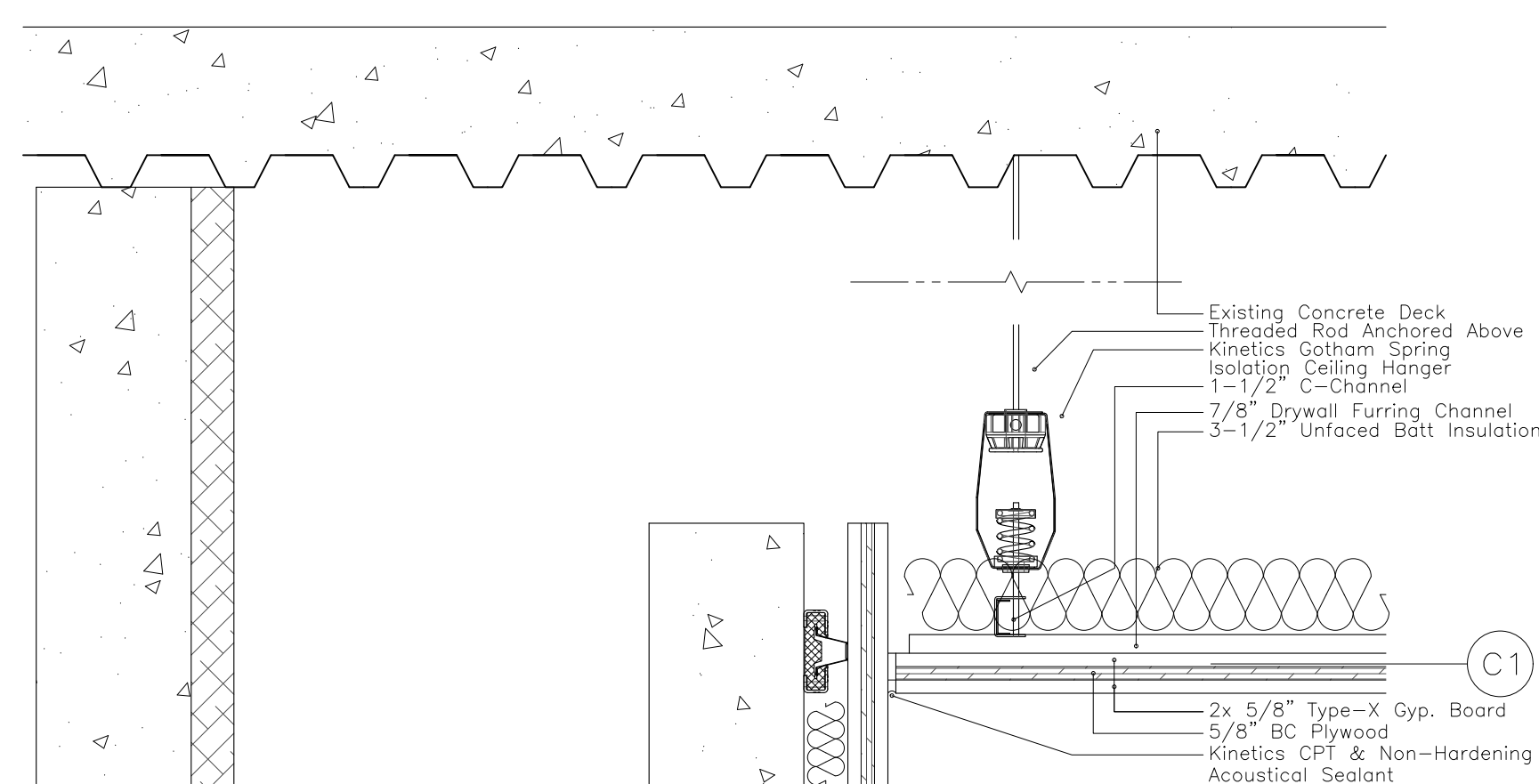
(B) Shell Construction




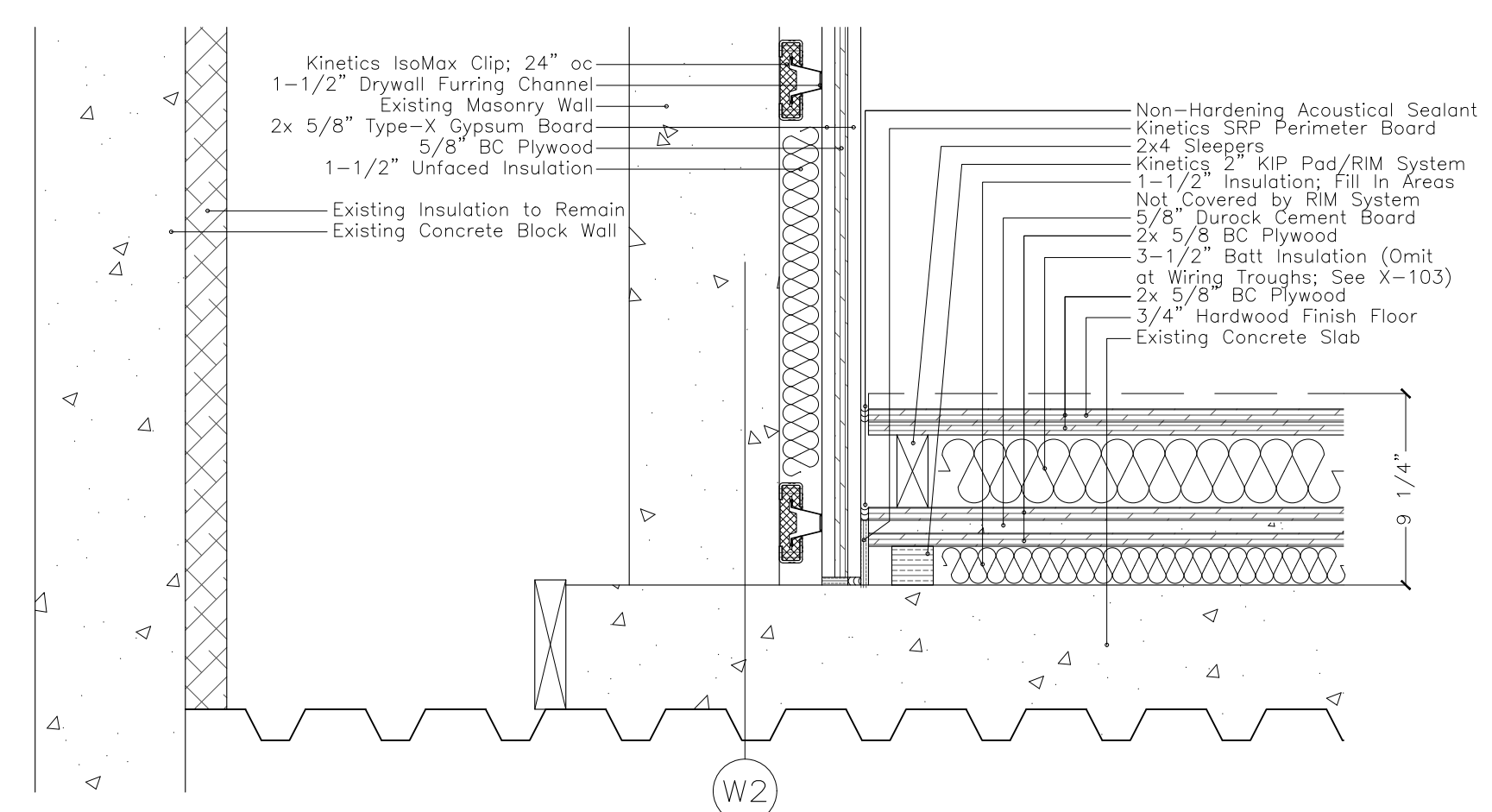
C1 Ceiling Construction as Detailed



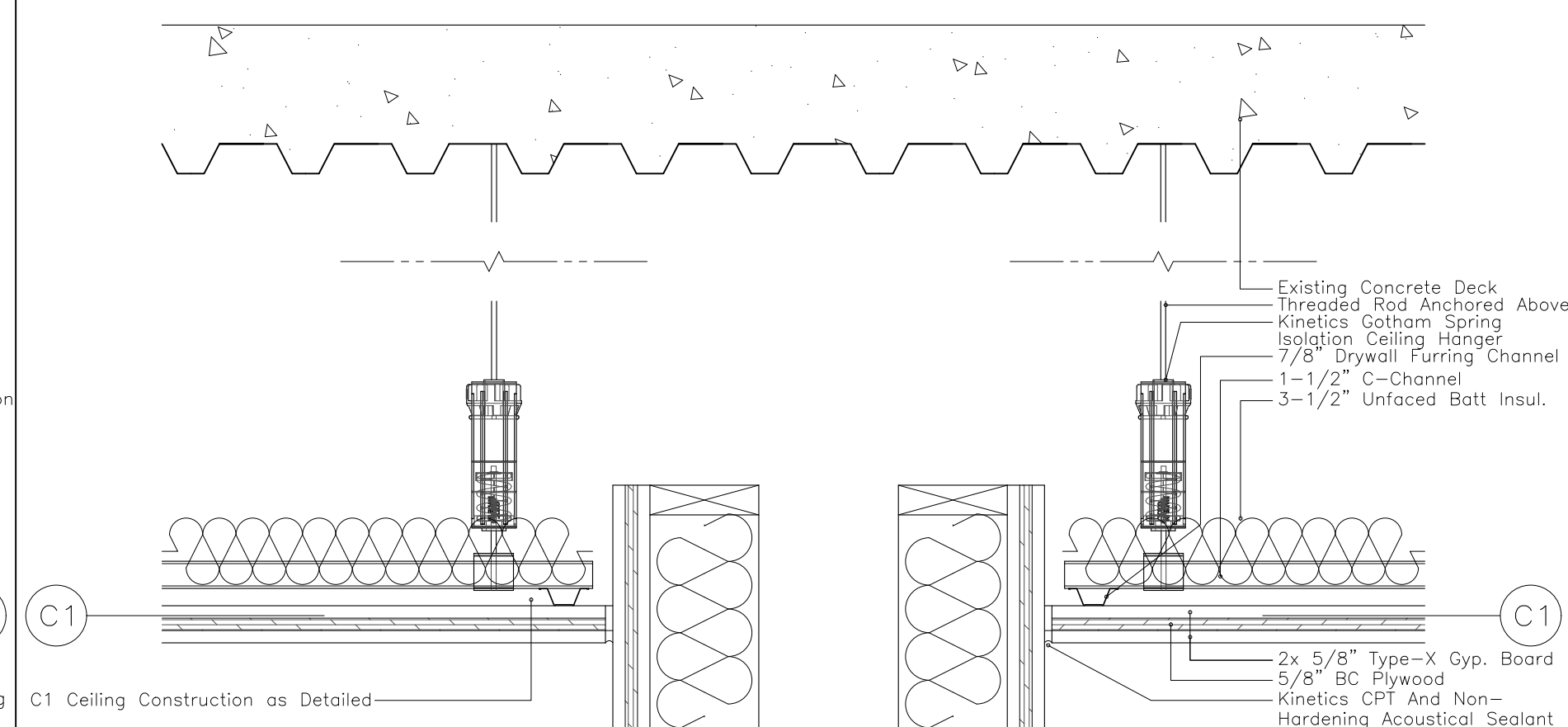
(C) Shell Construction



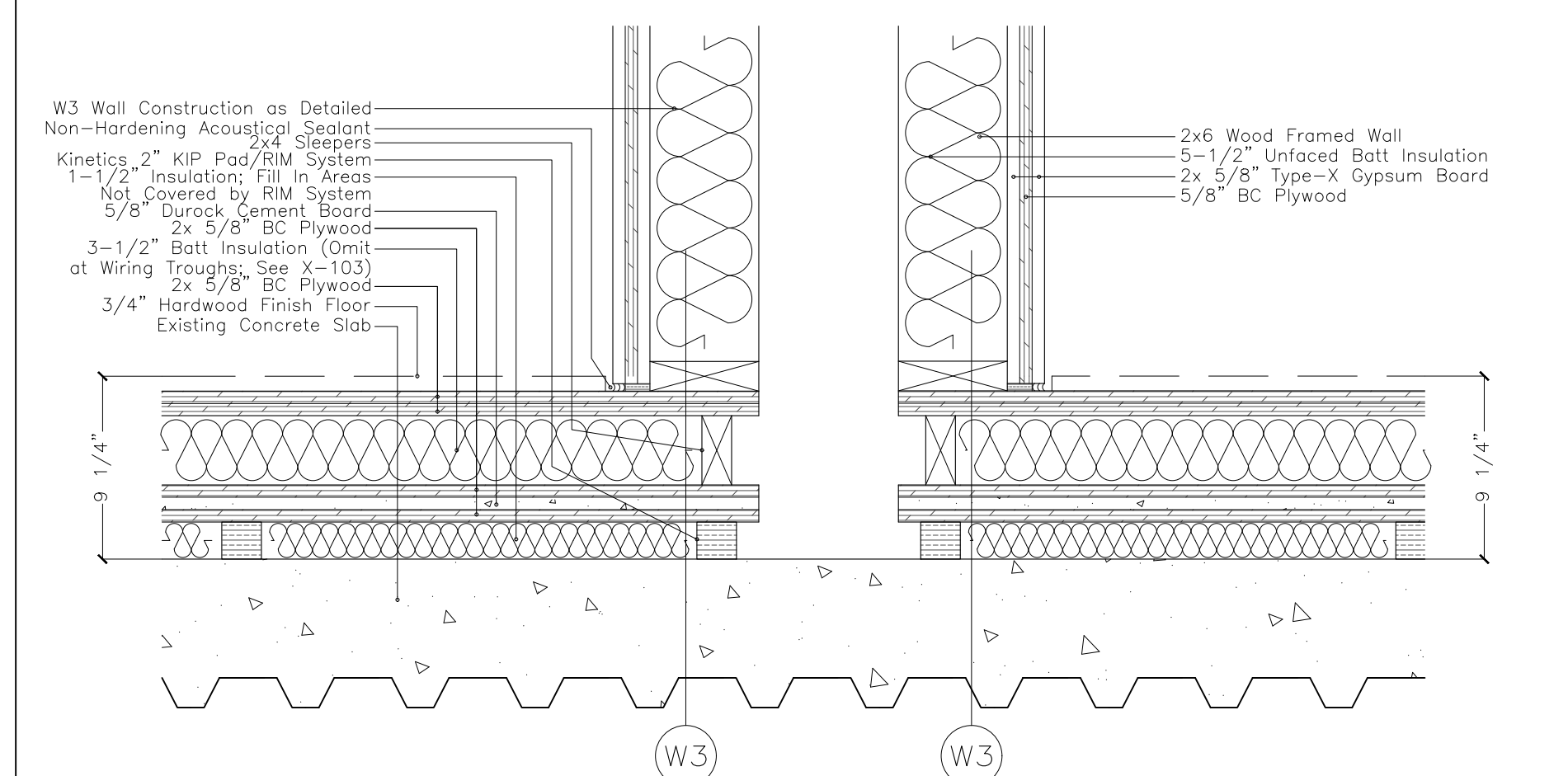
DEMISE ————  ———— LIVE ROOM



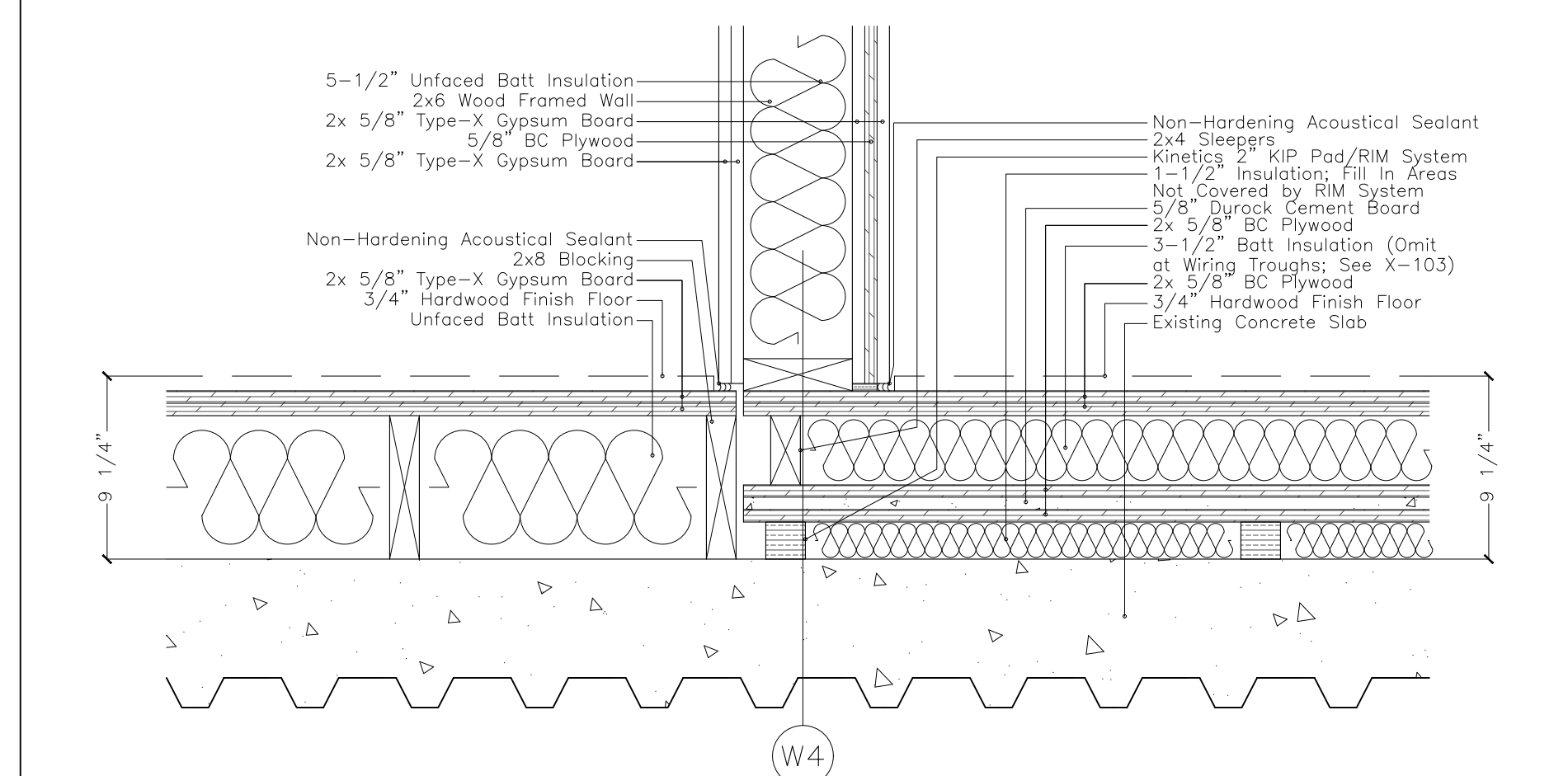
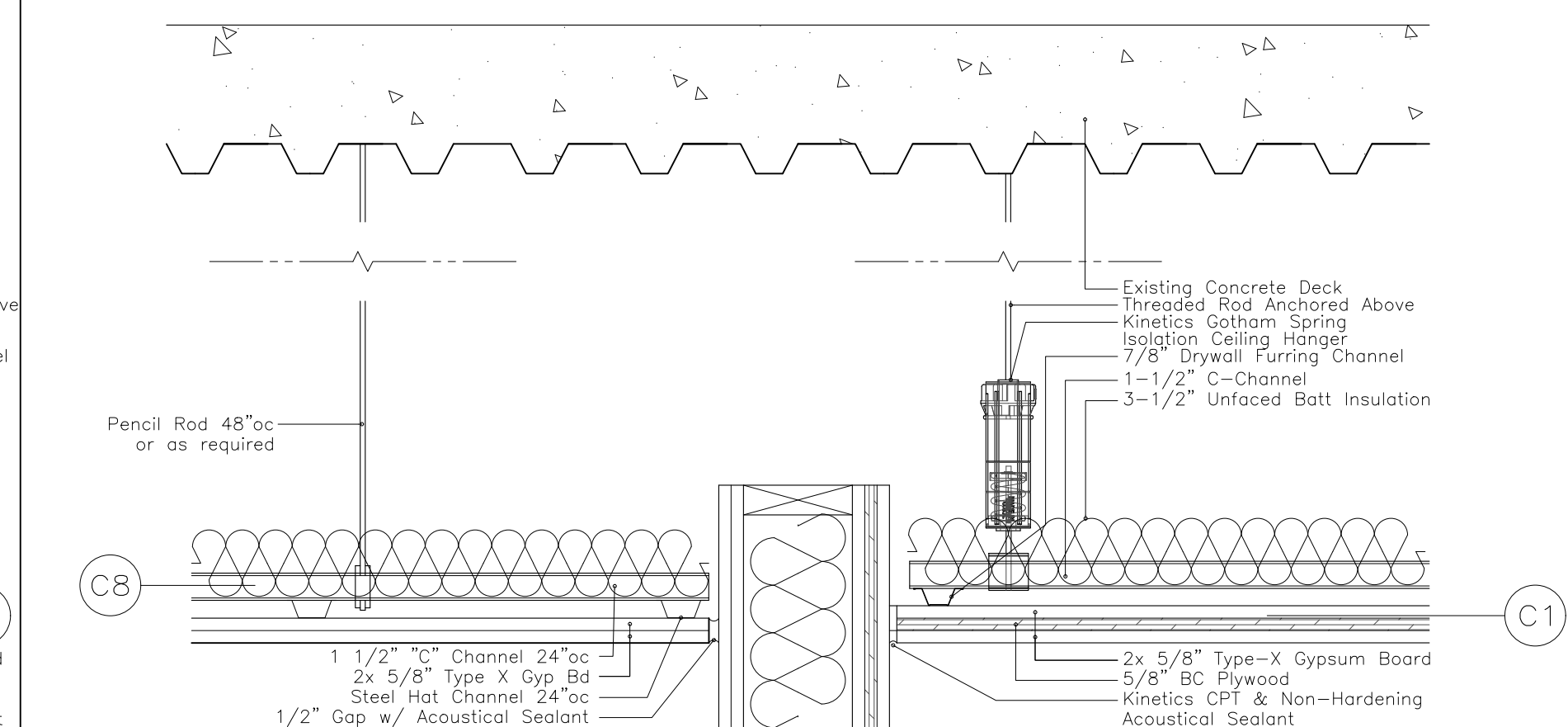
(D) Shell Construction



C1 Ceiling Construction as Detailed



(E) Shell Construction



(F) Shell Construction

SYMBOLS

ACOUSTIC
CONSTRUCTION NOTES

1. WHERE INDICATED, DRYWALL IS TO BE SEALED AT CEILING, FLOOR AND VERTICAL JOINTS USING ACOUSTIC SEALANT BEAD NOT LESS THAN 1/2"
2. ALL DRYWALL CORNER JOINTS ARE OVERLAPPED AS SHOWN IN PRINCIPAL ON THE DRAWING DETAILS. ALL DRYWALL BOARDS ARE TO BE STAGGERED FROM PRECEDING LAYER AND JOINTS TAPED. ALL LAYERS OF LATHING ARE TO BE SCAFFOLDED AND GLUED W/ CONSTRUCTION ADHESIVE TO THE PRECEDING LAYER.
3. ACCURATE CUTTING OF DRYWALL IS ESSENTIAL. PATCHING IS NOT ACCEPTABLE.
4. WHERE RESILIENT CHANNEL IS SPECIFIED, USE USG RC-1 RESILIENT CHANNEL INSTALLED IN ACCORDANCE WITH USG STANDARDS. INSTALL CHANNEL WITH "FREE LEG" UP.
5. UNDER NO CIRCUMSTANCES IS THERE TO BE ANY RIGID CONTACT BETWEEN THE FLOATING INNER SHELL OF THE ISOLATED ROOMS AND THE BUILDING STRUCTURE. STAINLESS STEEL WHIP-ROD CONDUITS, SINK SPRINKLER PIPES OR ELECTRICAL CONDUITS MUST PENETRATE THE WALL OR CEILING, A FRAMED OPENING MUST BE MADE OVERSIZED TO ALLOW FOR A SEALED SOFT JOINT.
6. THE ACOUSTIC DESIGNER MUST HAVE THE RIGHT OF REVIEW AND APPROVAL OVER ANY CONCRETE MADE TO THESE SPECIFICATIONS. INSPECTION MUST BE COMPLETED OF ALL MAJOR SYSTEMS BEFORE THEY ARE COVERED BY THE NEXT PHASE OF CONSTRUCTION. THE CONTRACTOR MUST NOTIFY THE ACOUSTIC DESIGNER AS THESE MAJOR ELEMENTS ARE COMPLETED.
7. ALL TIMBER FRAMING AND PLYWOOD LAMINATIONS ARE TO BE FIRE TREATED AS PER LOCAL BUILDING CODES.

RIGID INSULATION SPECIFICATIONS

RIGID INSULATION - SPECIFICATIONS

#703 OWENS CORNING=3lb/cf UNFACED RIGID FIBERGLASS INSULATION. SUITABLE SUBSTITUTES FROM ALTERNATE MANUFACTURER IS ACCEPTABLE WITH PRIOR APPROVAL

#705 OWENS CORNING=6lb/cf UNFACED RIGID FIBERGLASS INSULATION. SUITABLE SUBSTITUTES FROM ALTERNATE MANUFACTURER IS ACCEPTABLE WITH PRIOR APPROVAL

| Revisions | | | | |
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| REVISION | # | DATE | REVISION | APPROVED |
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Mailing: 140 Riverside Drive Suite 6E,
New York, NY 10024

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| PROJECT |
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Purchase College Studio A Renovations

Purchase, NY

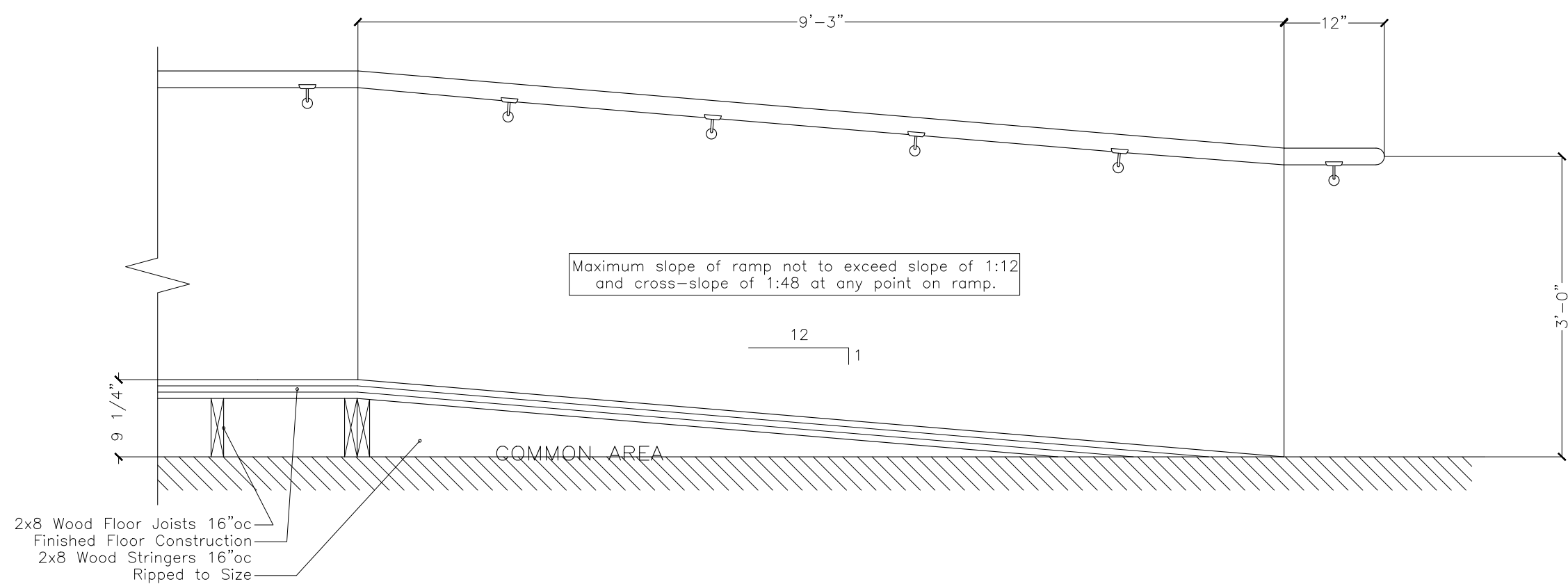
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DETAILS—SHELL CONSTRUCTION

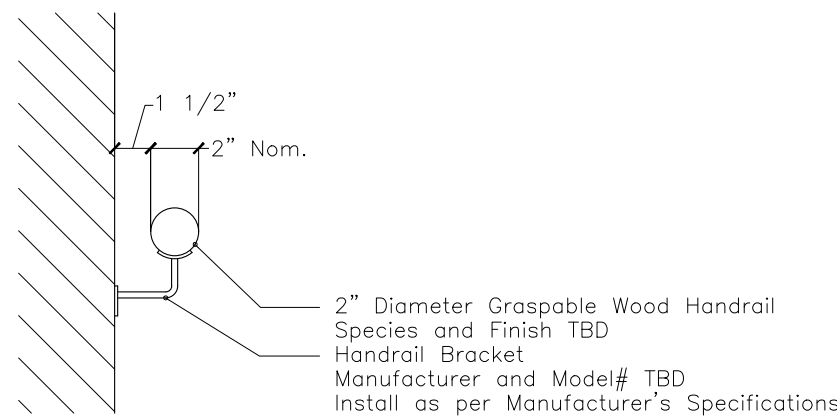
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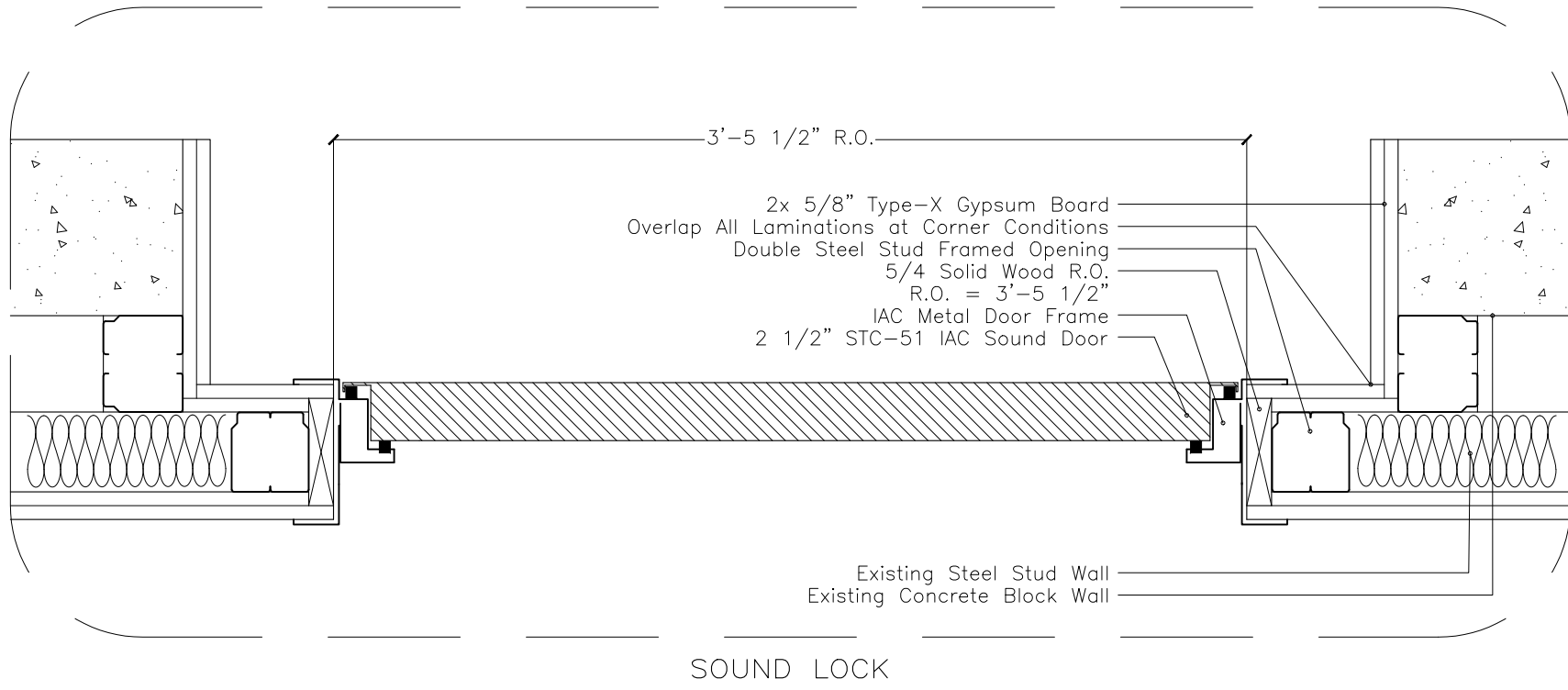
Ⓐ Ramp Detail
SCALE: 1/8" = 1'-0"



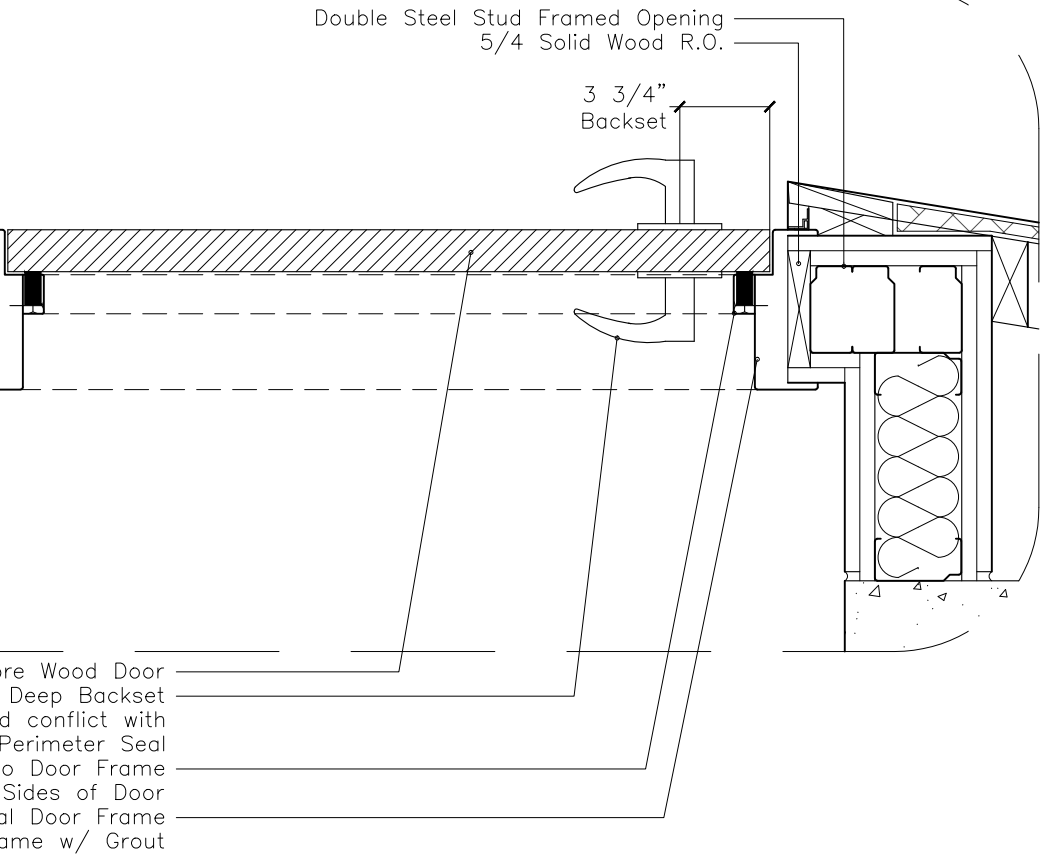
Ⓑ Ramp Handrail Detail



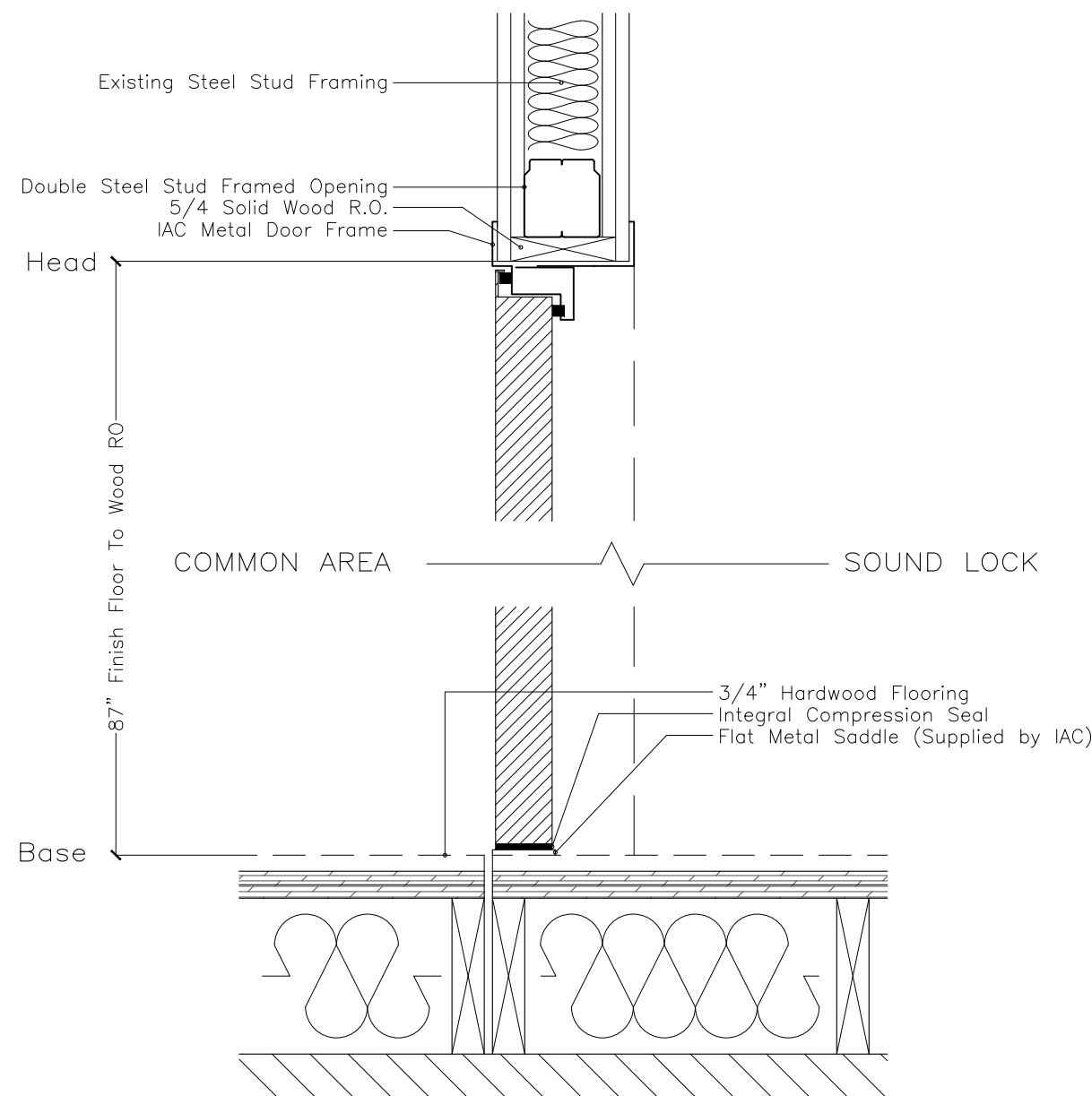
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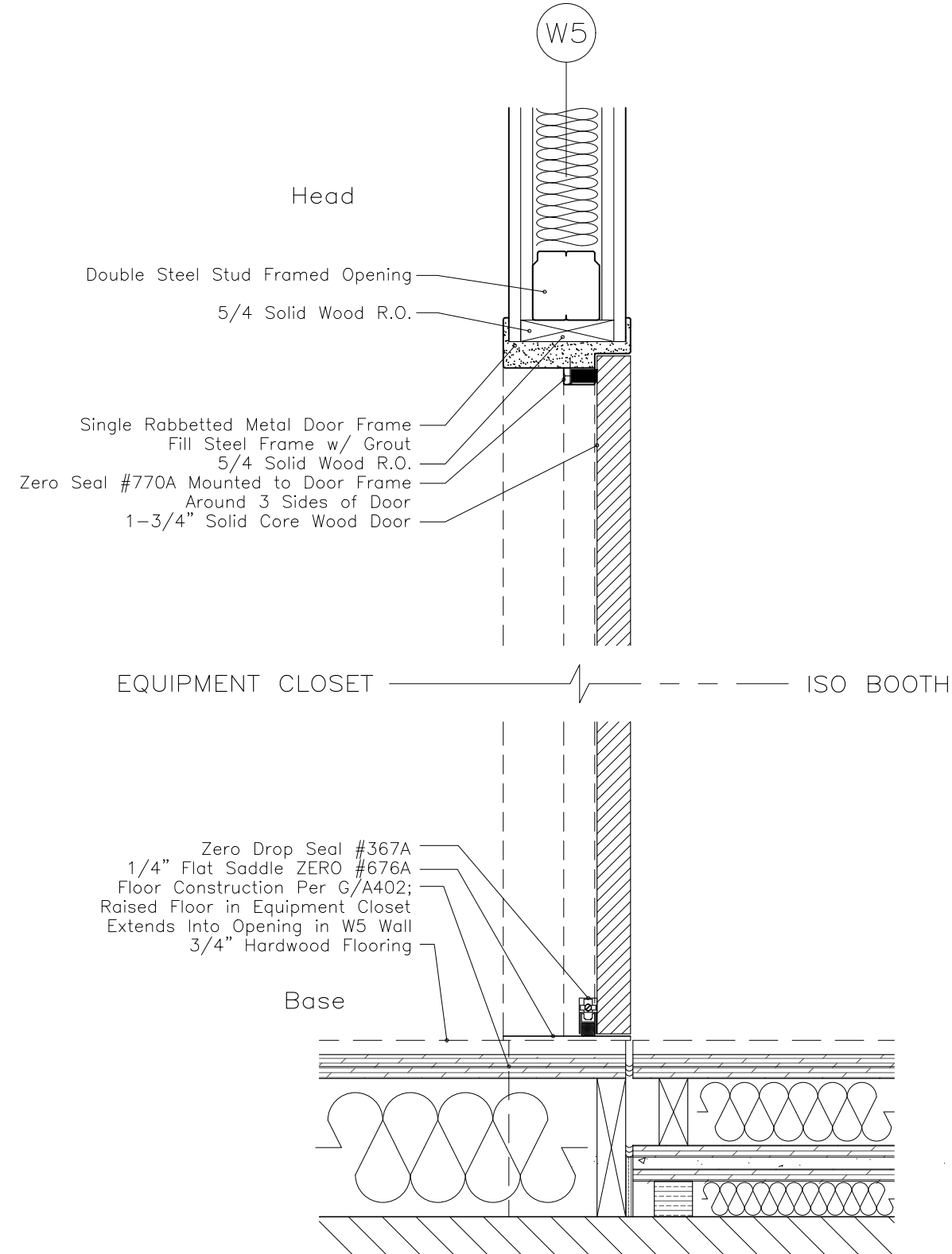
Ⓒ Plan Section at Door #1



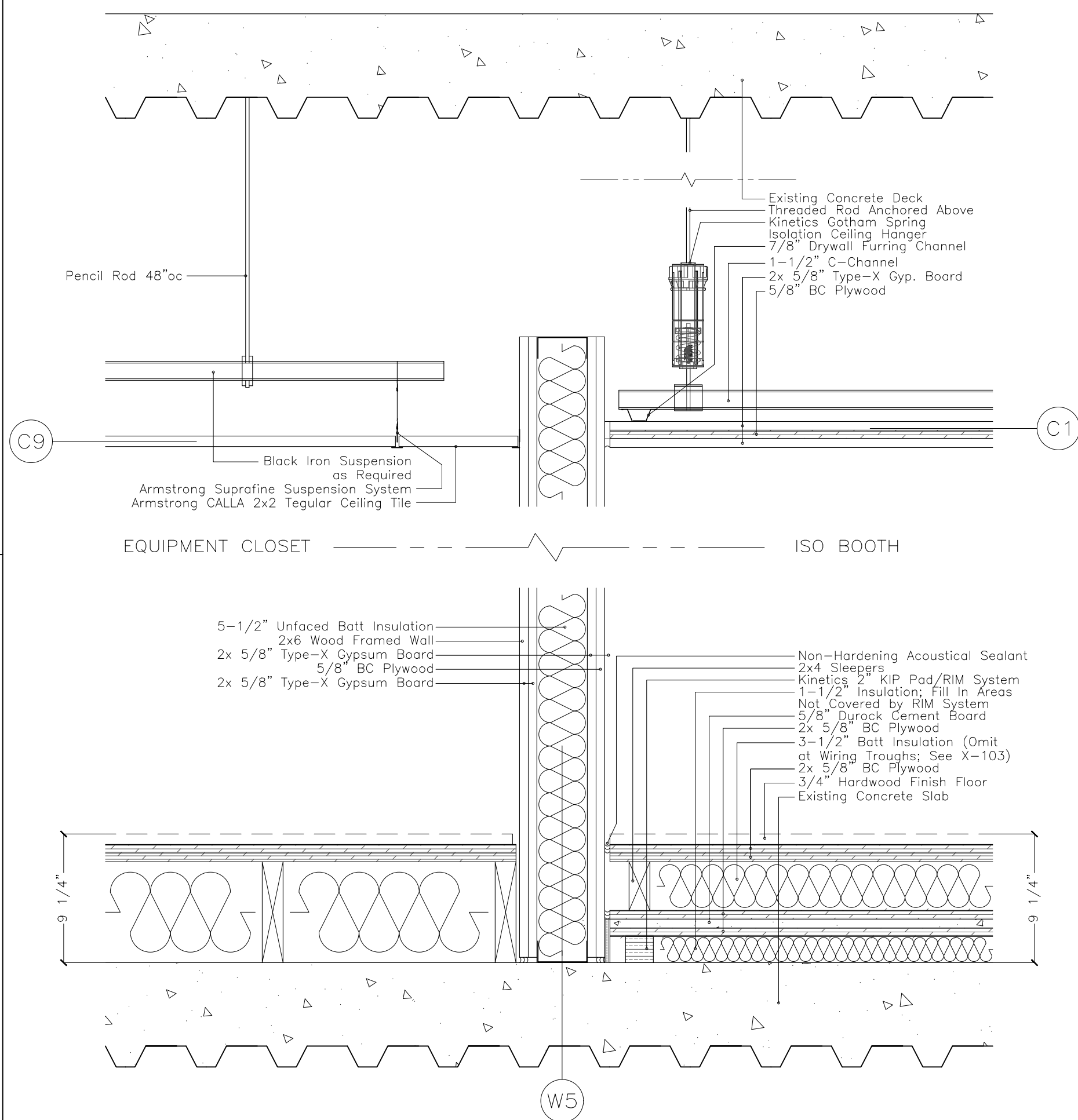
Ⓔ Plan Section at Door #5



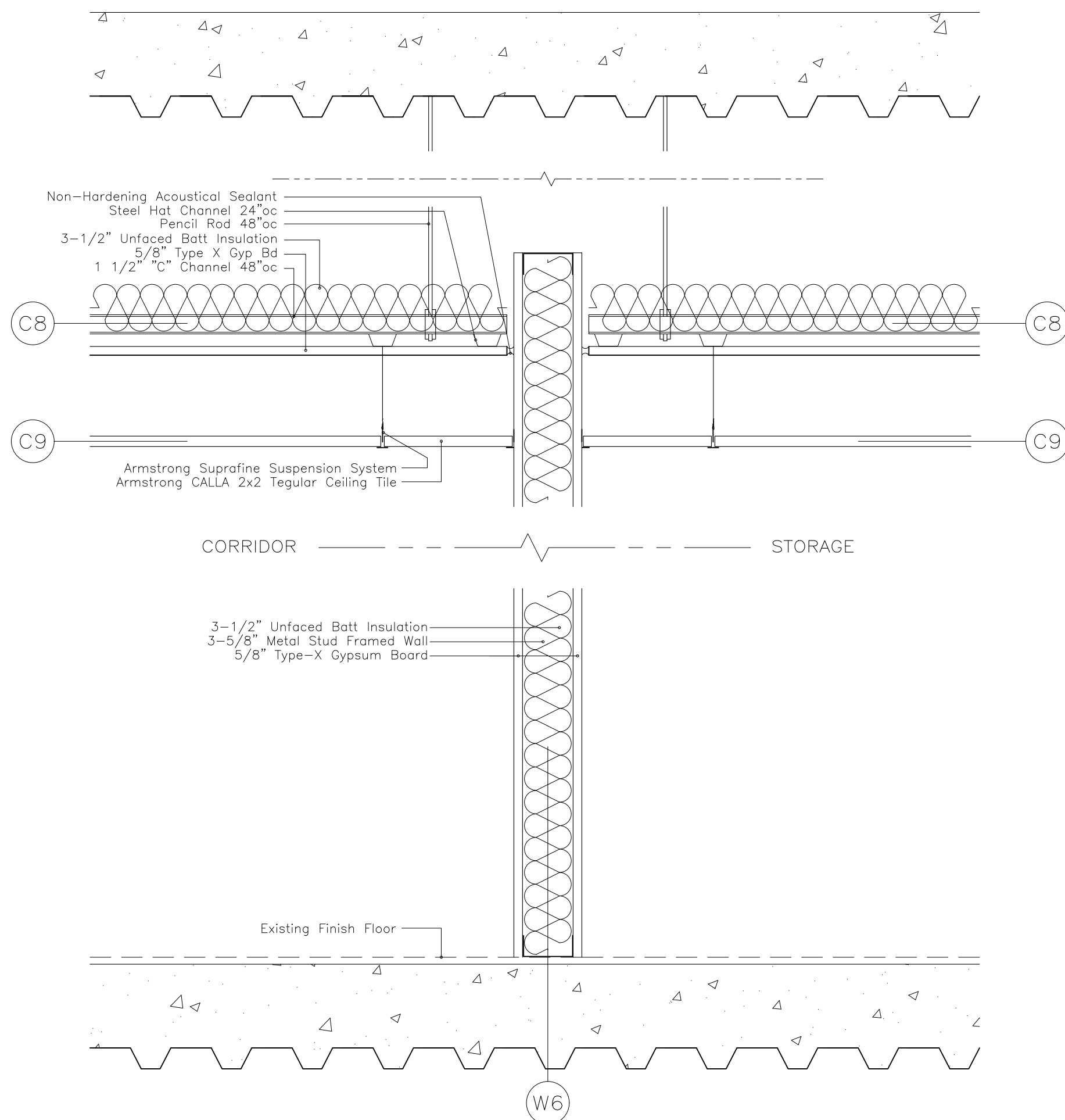
Ⓓ Section at Door #1



Ⓕ Section at Door #5



Ⓖ Shell Construction



Ⓖ Shell Construction

SYMBOLS

ACOUSTIC
CONSTRUCTION NOTES

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 - WHERE RESILIENT CHANNEL IS SPECIFIED, USE USG RC-1 RESILIENT CHANNEL INSTALLED IN ACCORDANCE WITH USG STANDARDS. INSTALL CHANNEL WITH "FREE LEG" UP.
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 - ALL TIMBER FRAMING AND PLYWOOD LAMINATIONS ARE TO BE FIRE TREATED AS PER LOCAL BUILDING CODES.
- RIGID INSULATION SPECIFICATIONS
#703 OWENS CORNING=3lb/cf UNFACED RIGID FIBERGLASS INSULATION. SUITABLE SUBSTITUTES FROM ALTERNATE MANUFACTURER IS ACCEPTABLE WITH PRIOR APPROVAL
#705 OWENS CORNING=6lb/cf UNFACED RIGID FIBERGLASS INSULATION. SUITABLE SUBSTITUTES FROM ALTERNATE MANUFACTURER IS ACCEPTABLE WITH PRIOR APPROVAL

Revisions

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PROJECT

Purchase College
Studio A
Renovations

Purchase, NY

DRAWING NAME

DETAILS-MISC

SEAL & SIGNATURE

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

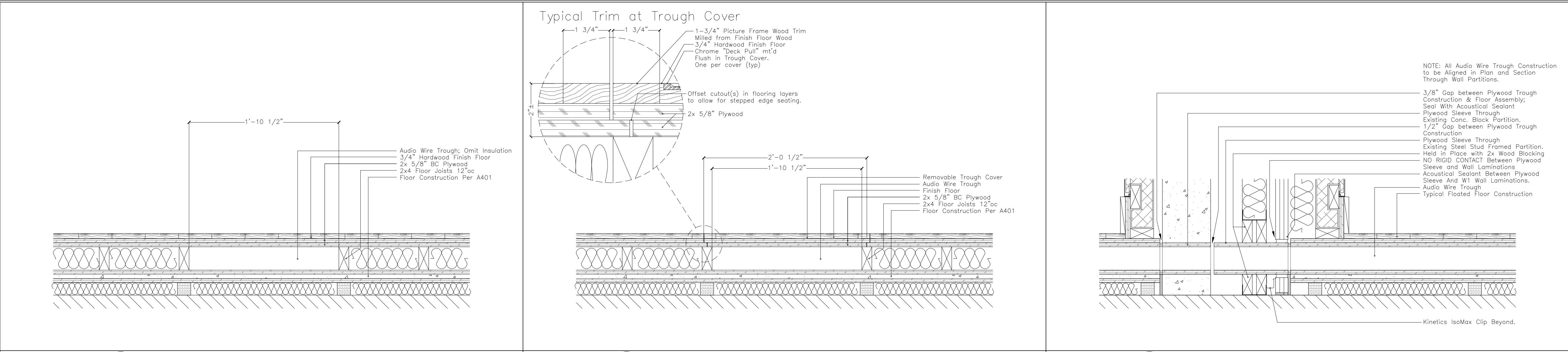
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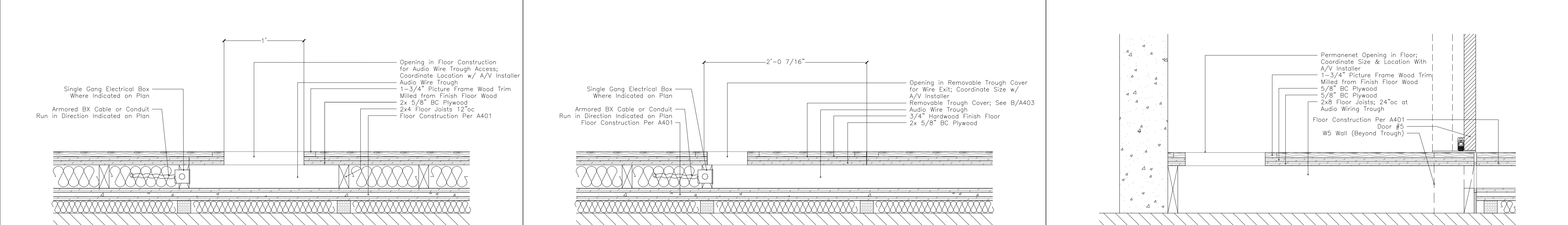
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A Trough Detail

B Removable Trough Cover

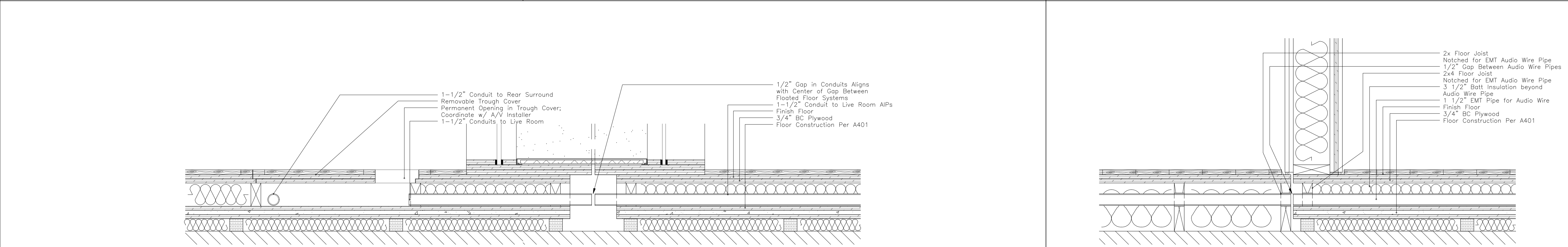
C Audio Trough Crossing Adjacent Floated Floors



D Detail at Opening in Trough

E Removable Trough Cover w/Wire Exit

F Detail at Opening in Trough



G Audio Pipes Exiting Trough at Removable Cover

H Audio Pipe Exiting Isolated Floor

SYMBOLS

| Revisions | | | |
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PROJECT

Purchase College
Studio A
Renovations

Purchase, NY

DRAWING NAME

TROUGH & PIPING DETAILS

SEAL & SIGNATURE

SCALE 1/4"=1'-0"

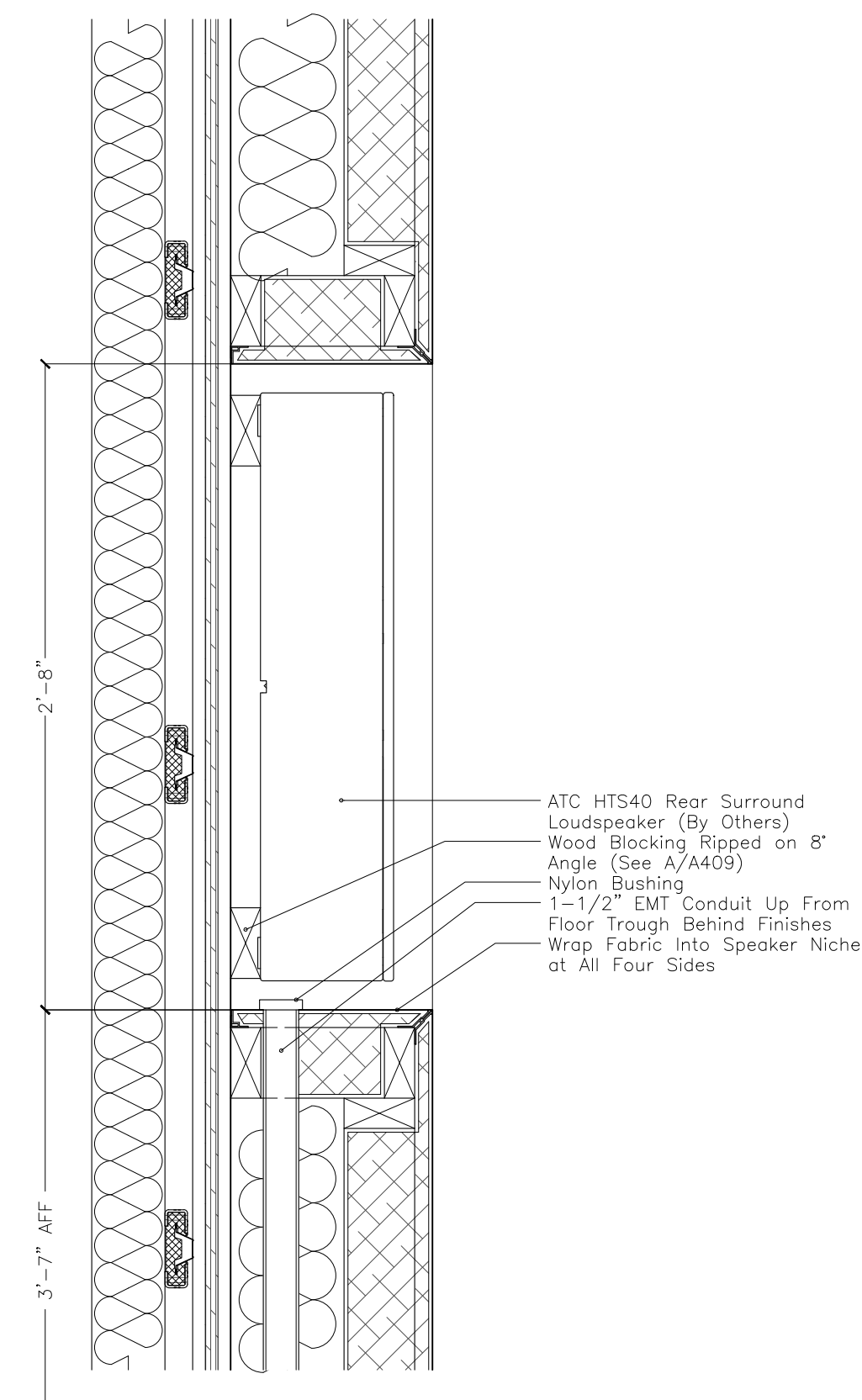
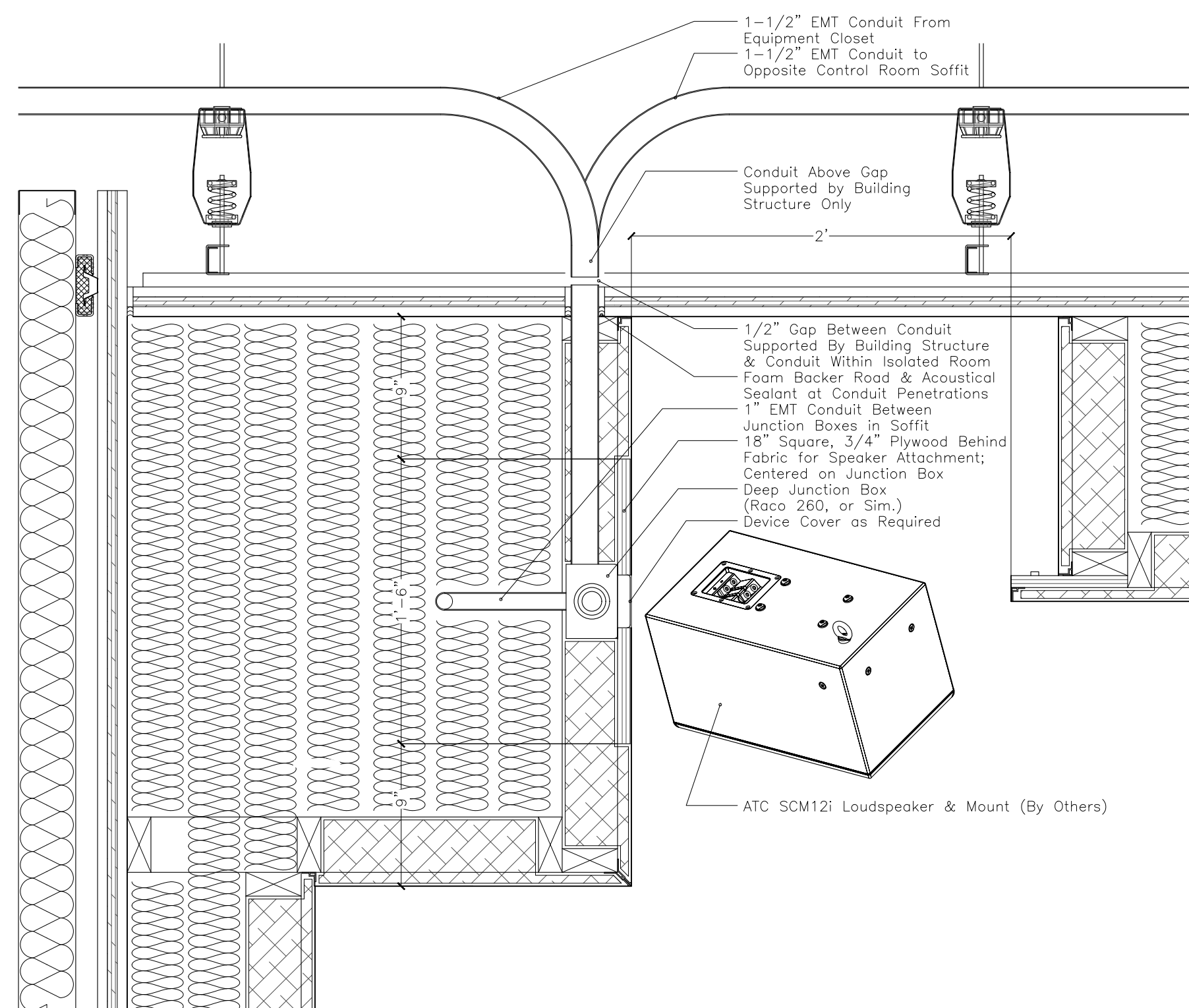
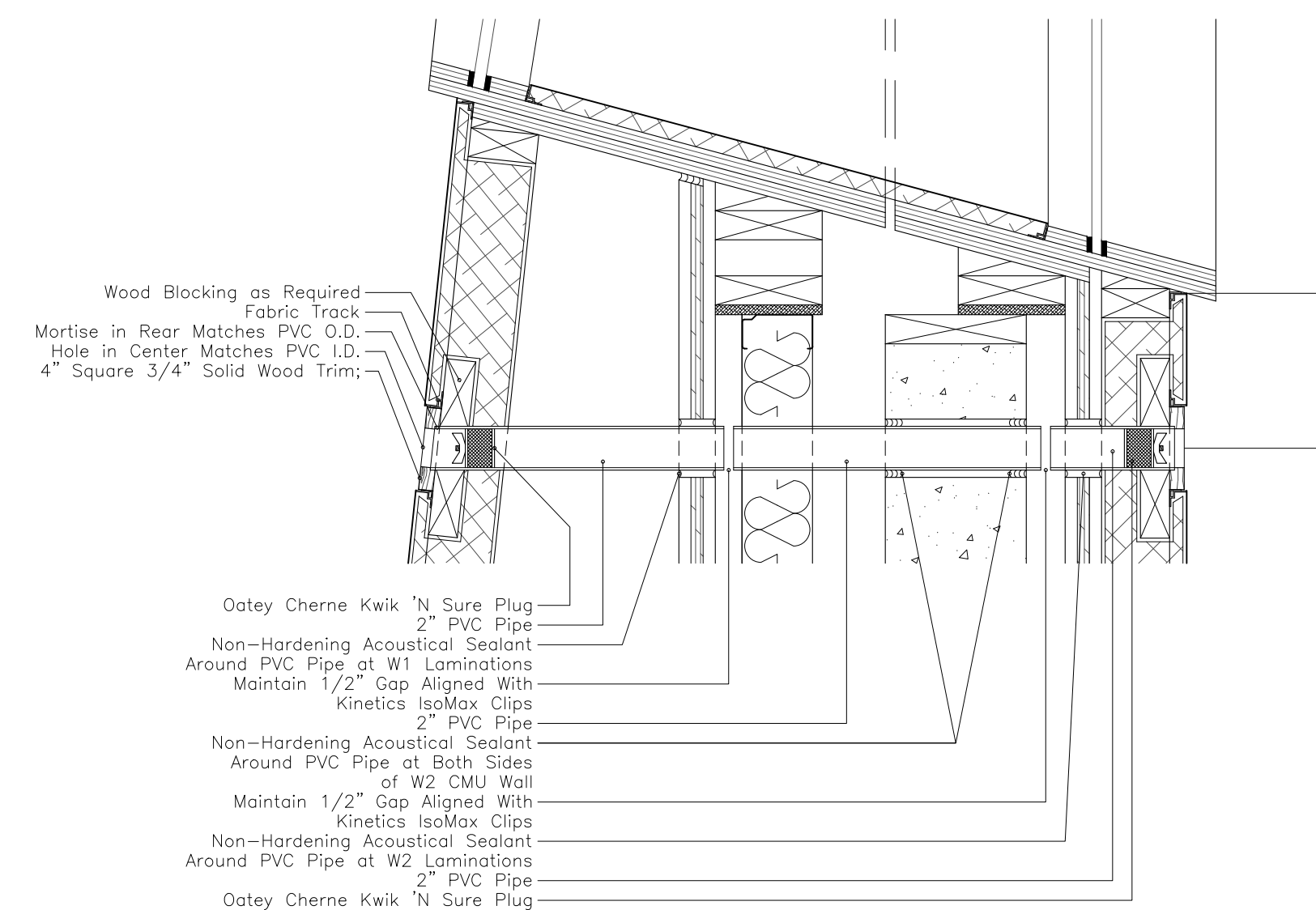
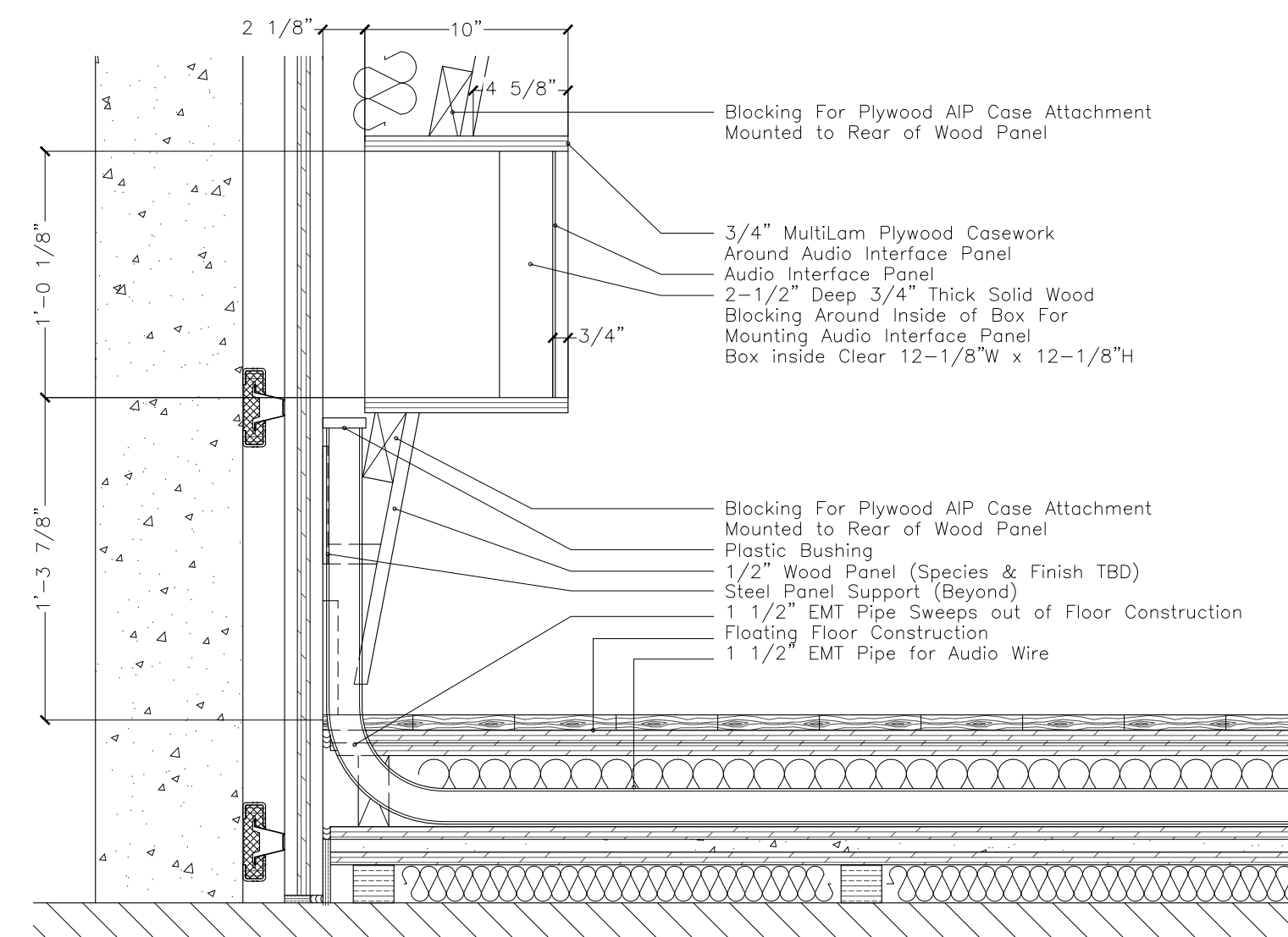
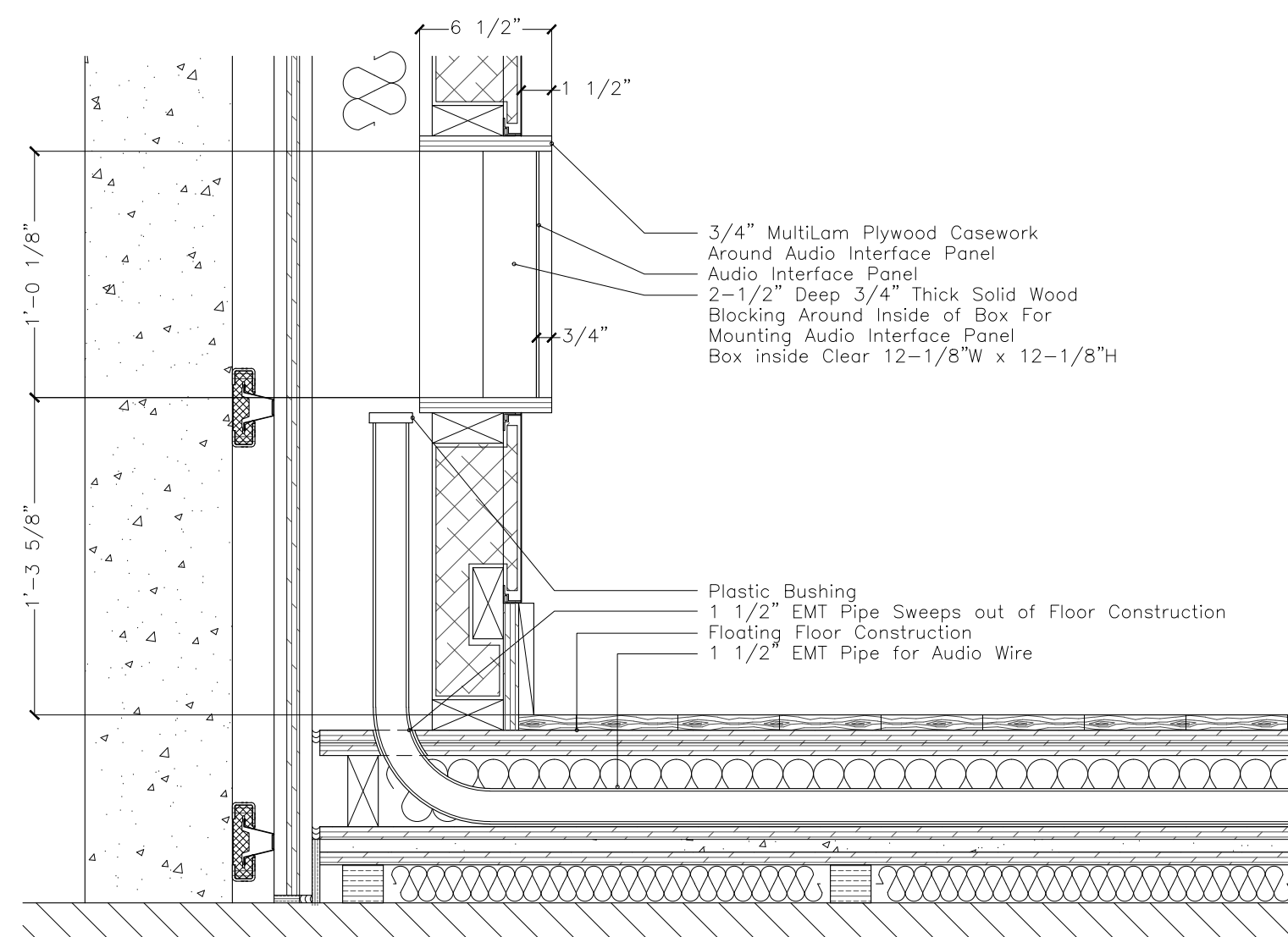
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Purchase College Studio A Renovations

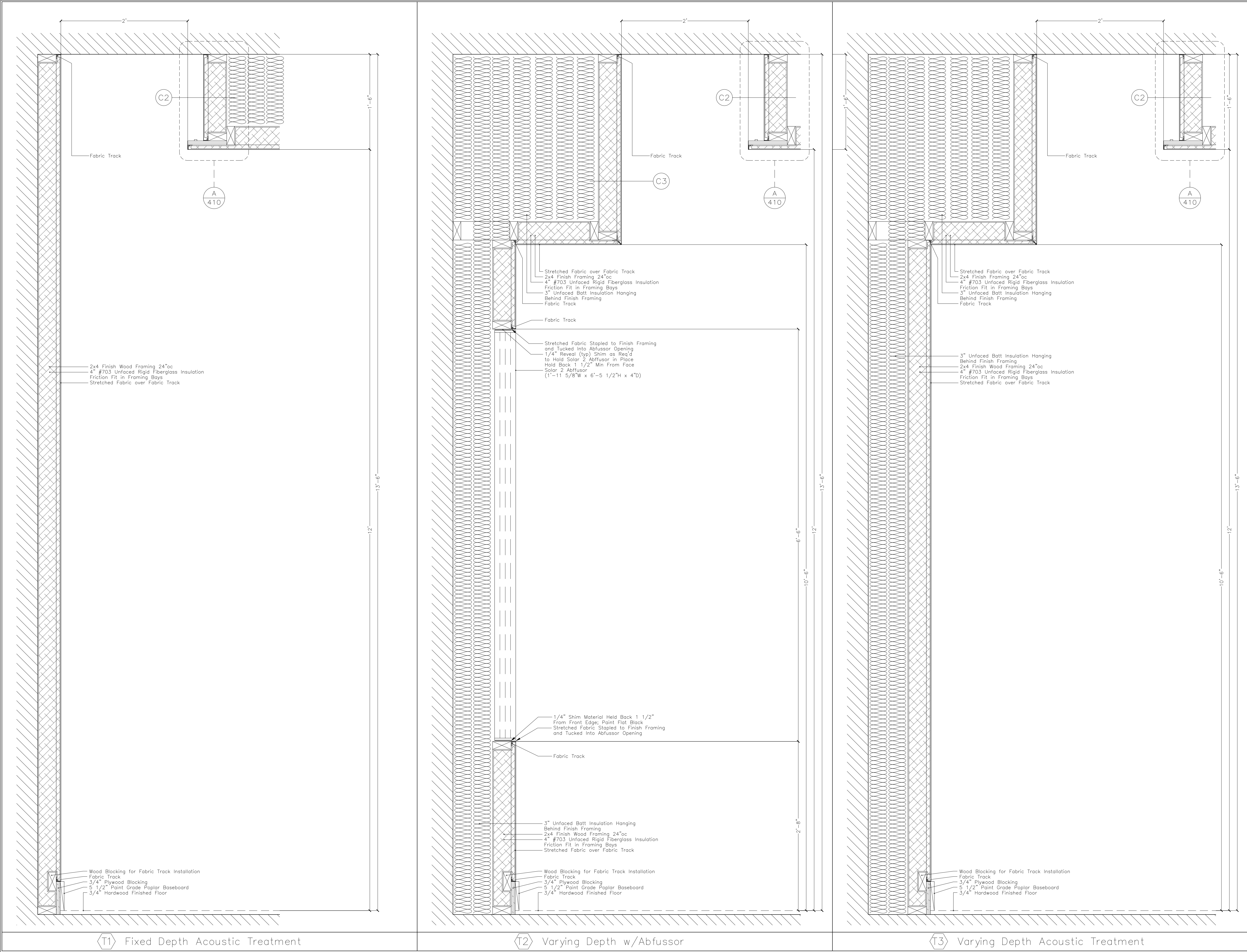
Purchase, NY

DRAWING NAME

TROUGH & PIPING DETAILS

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SYMBOLS

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DRAWING NAME

DETAILS-ACOUSTIC TREATMENTS

SEAL & SIGNATURE

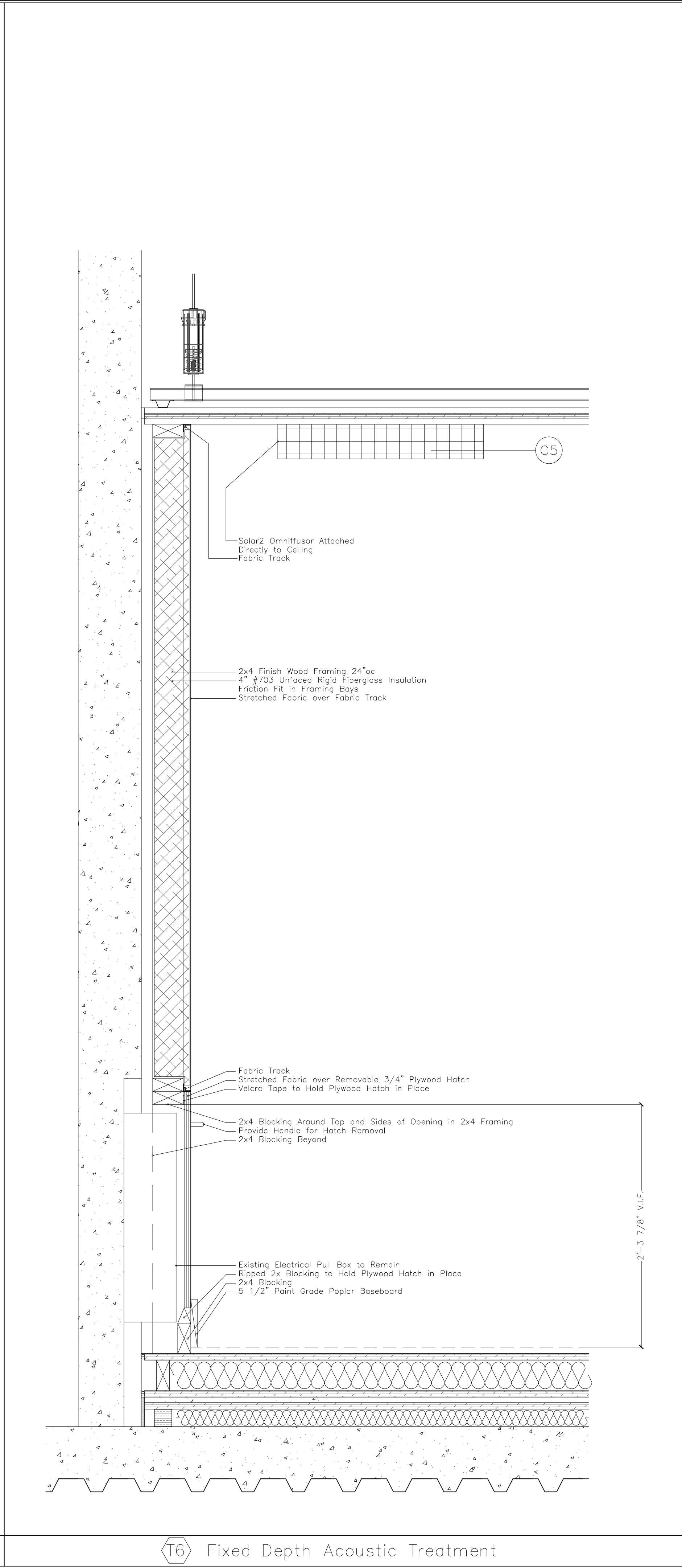
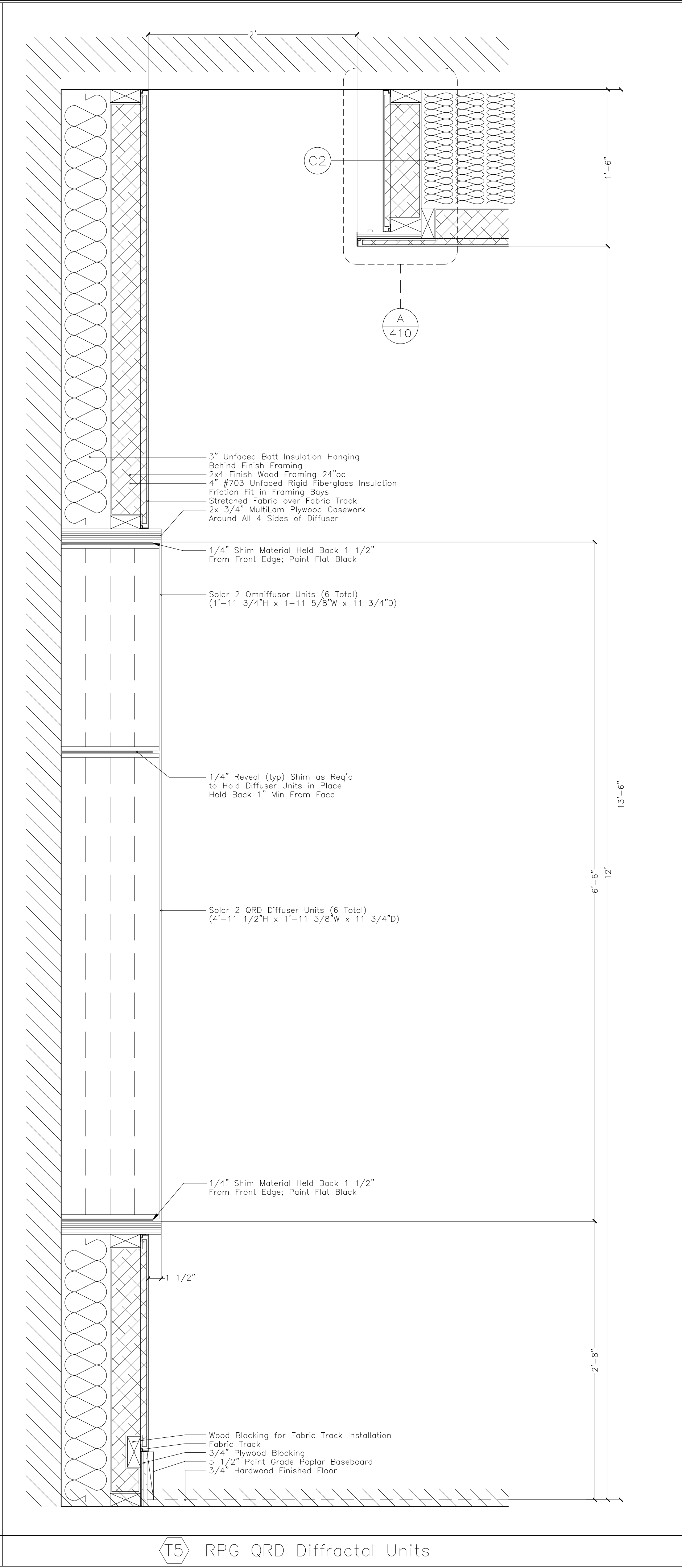
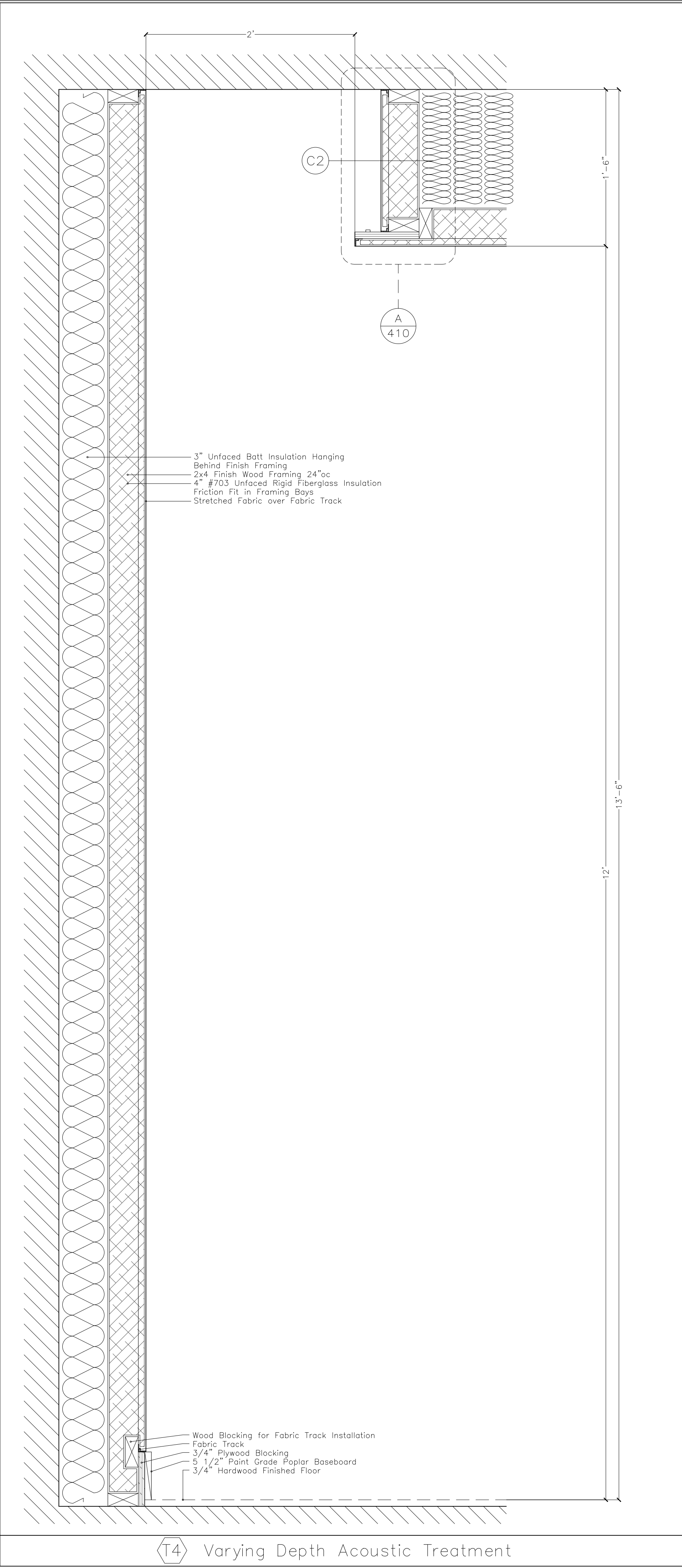
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Purchase, NY

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DETAILS-ACOUSTIC TREATMENTS

SEAL & SIGNATURE

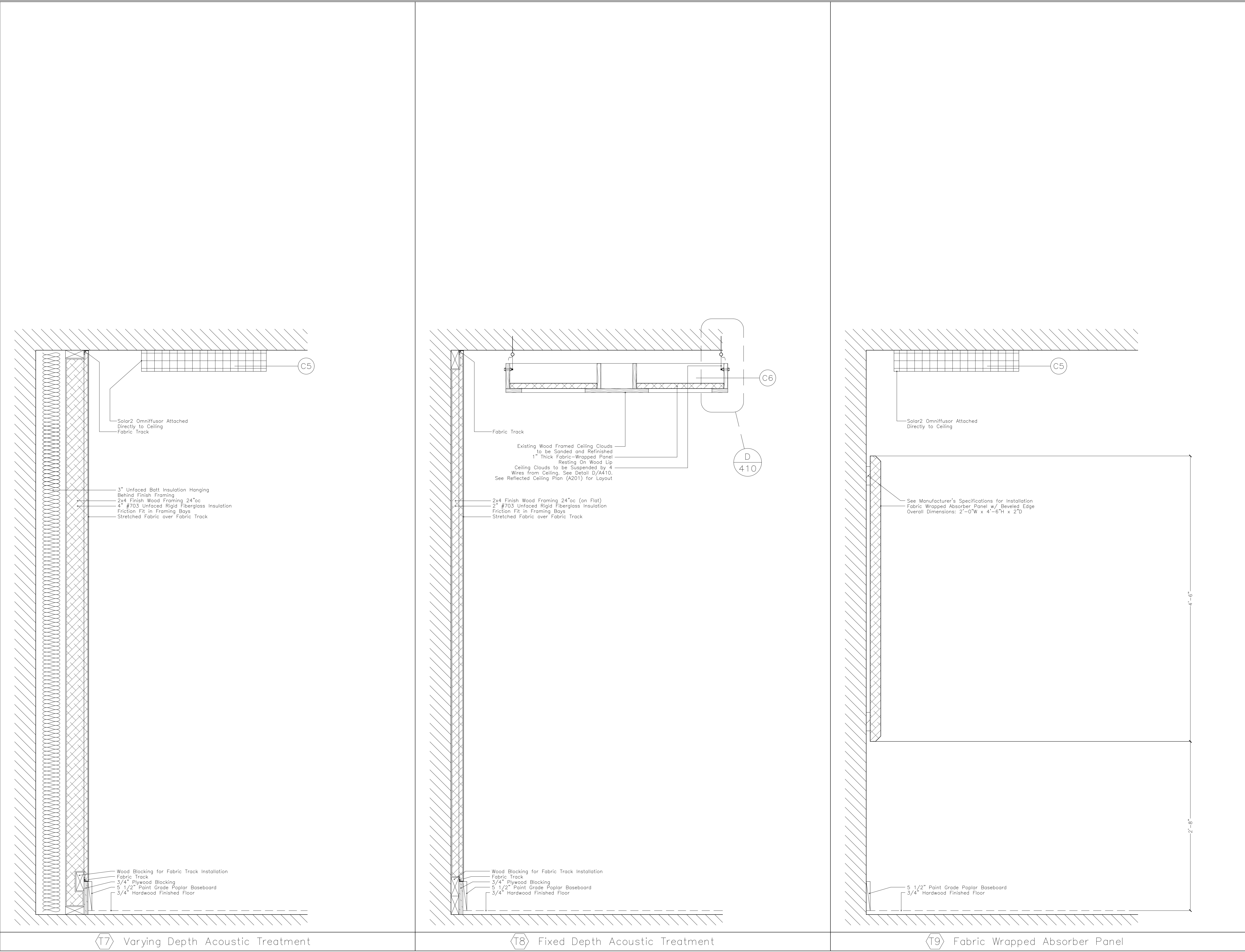
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DATE 07/13/2021

CAD FILE#

DRAWING NUMBER A-406.00

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#705 OWENS CORNING=6lb/cf UNFACED RIGID FIBERGLASS INSULATION. SUITABLE SUBSTITUTES FROM ALTERNATE MANUFACTURER IS ACCEPTABLE WITH PRIOR APPROVAL

Revisions

| REVISION # | DATE | REVISION | APPROVED |
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New York, NY 10024

PROJECT

Purchase College Studio A Renovations

Purchase, NY

DRAWING NAME

DETAILS-ACOUSTIC TREATMENTS

SEAL & SIGNATURE

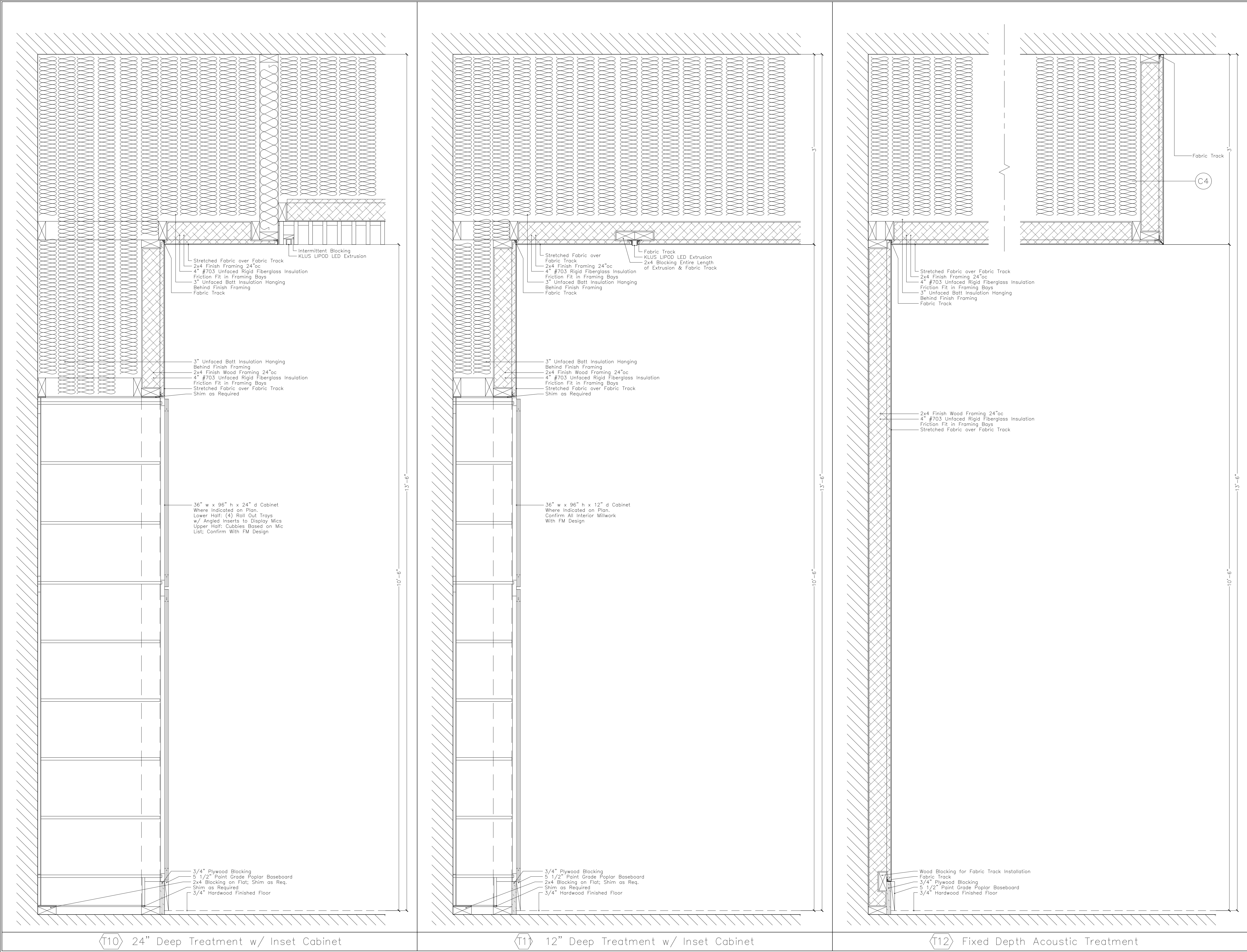
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DATE 07/13/2021

CAD FILE#

DRAWING NUMBER A-407.00

SHEET



SYMBOLS

ACOUSTIC CONSTRUCTION NOTES

1. WHERE INDICATED, DRYWALL IS TO BE SEALED AT CEILING, FLOOR AND VERTICAL JOINTS USING ACOUSTIC SEALANT BEAD NOT LESS THAN 1/2".

2. ALL DRYWALL CORNER JOINTS ARE OVERLAPPED AS SHOWN IN PRINCIPAL ON THE DRAWING DETAILS. ALL DRYWALL BOARDS ARE TO BE STAGGERED FROM PRECEDING LAYER AND JOINTS TAPED. ALL LAYERS OF LAMINATIONS ARE SCREWED AND GLUED W/ CONSTRUCTION ADHESIVE TO THE PRECEDING LAYER.

3. ACCURATE CUTTING OF DRYWALL IS ESSENTIAL. PATCHING IS NOT ACCEPTABLE.

4. WHERE RESILIENT CHANNEL IS SPECIFIED, USE USG RC-1 RESILIENT CHANNEL INSTALLED IN ACCORDANCE WITH USG STANDARDS. INSTALL CHANNEL WITH "FREE LEG" UP.

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6. THE ACOUSTIC DESIGNER MUST HAVE THE RIGHT OF REVIEW AND APPROVAL OVER ANY CHANGES MADE TO THESE SPECIFICATIONS. INSPECTION MUST BE COMPLETED OF ALL MAJOR SYSTEMS BEFORE THEY ARE COVERED BY THE NEXT PHASE OF CONSTRUCTION. THE CONTRACTOR MUST NOTIFY THE ACOUSTIC DESIGNER AS THESE MAJOR ELEMENTS ARE COMPLETED.

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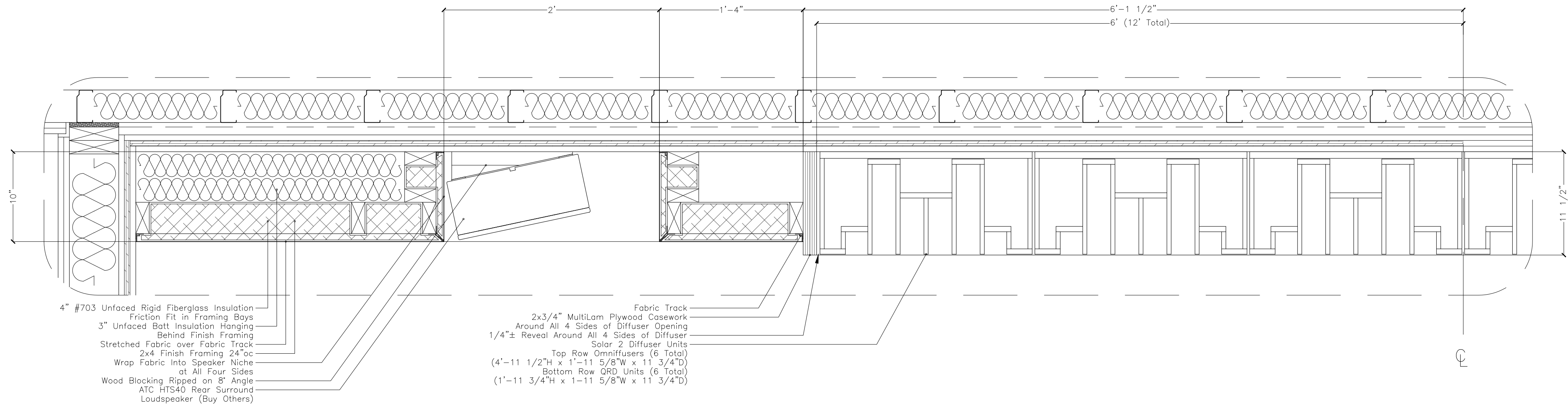
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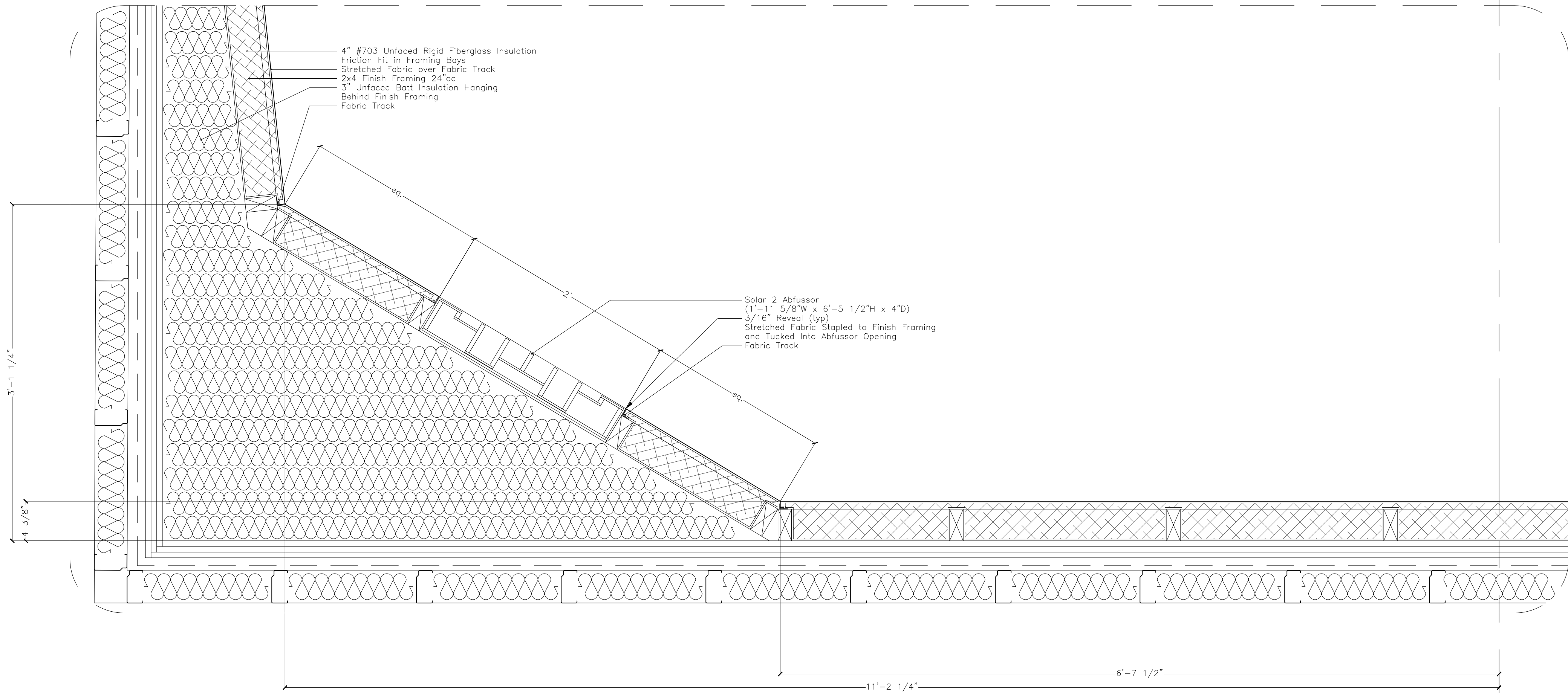
DRAWING NUMBER

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A Control Room Rear Wall Plan Detail



B Control Room Front Wall Plan Detail

SYMBOLS

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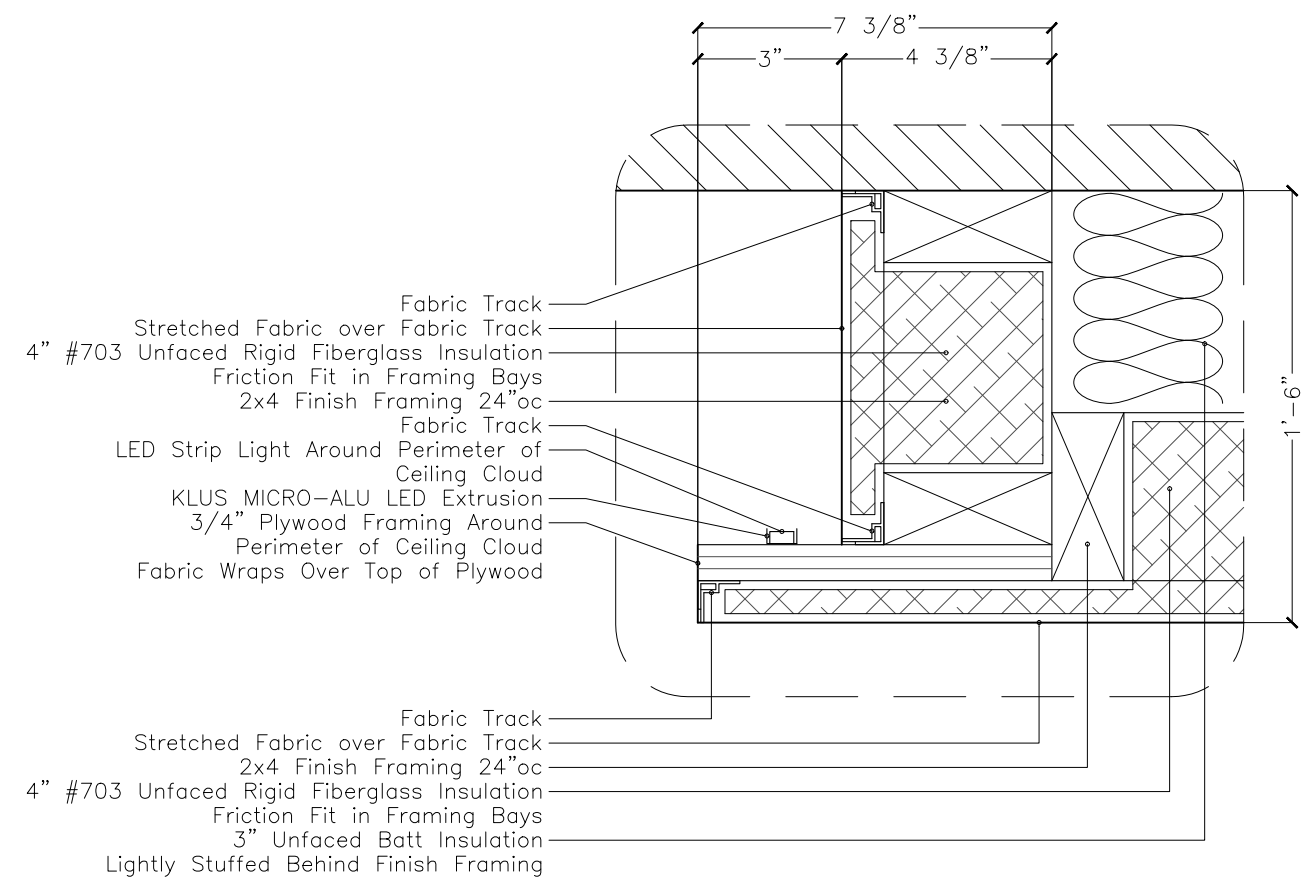
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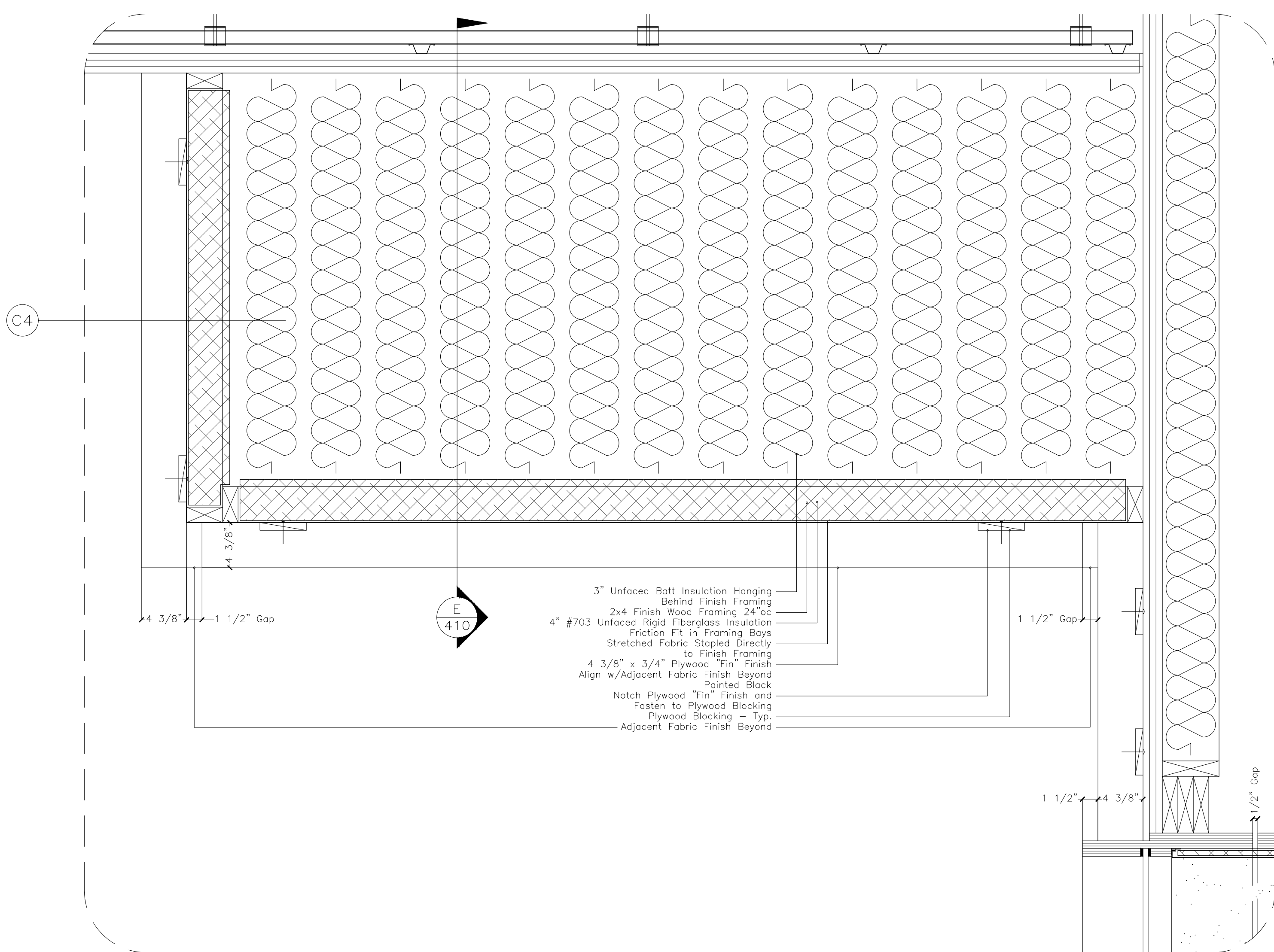
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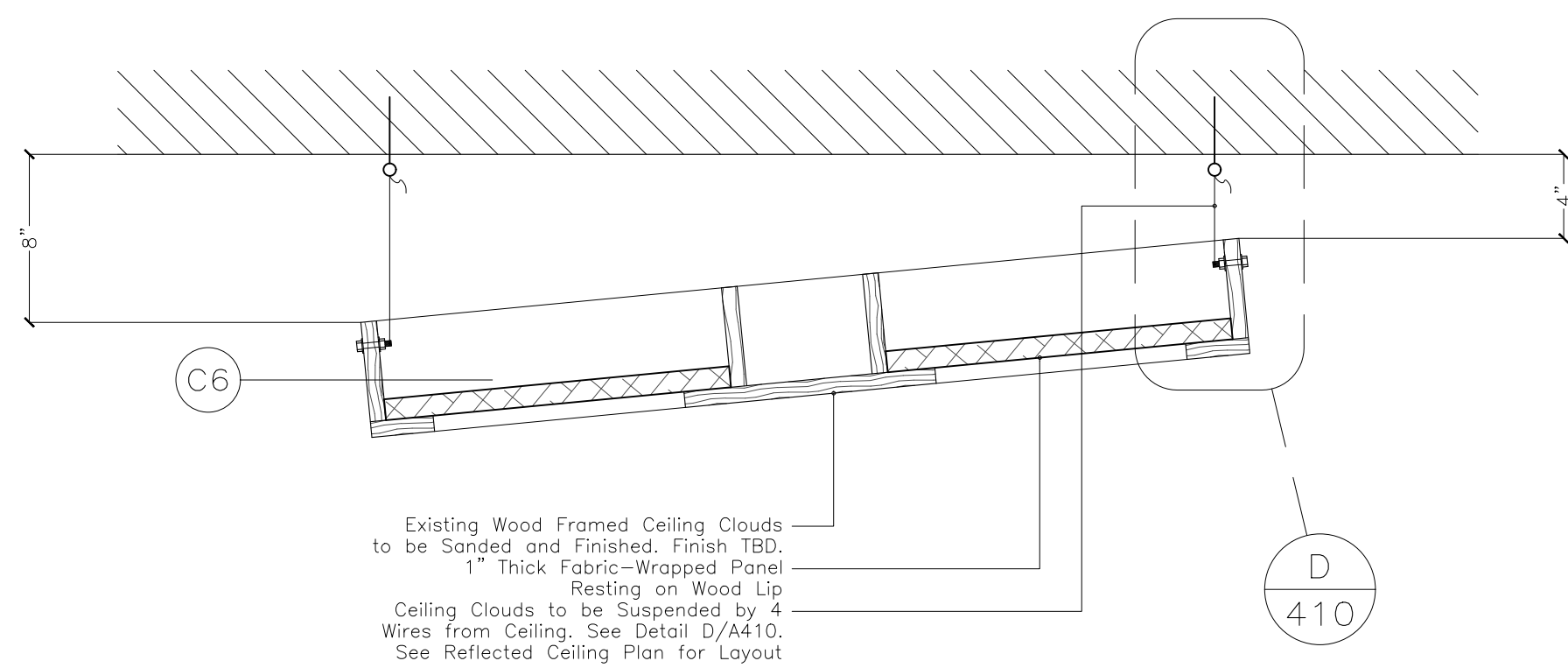
(A) Section Detail at Control Rm Ceiling Cloud



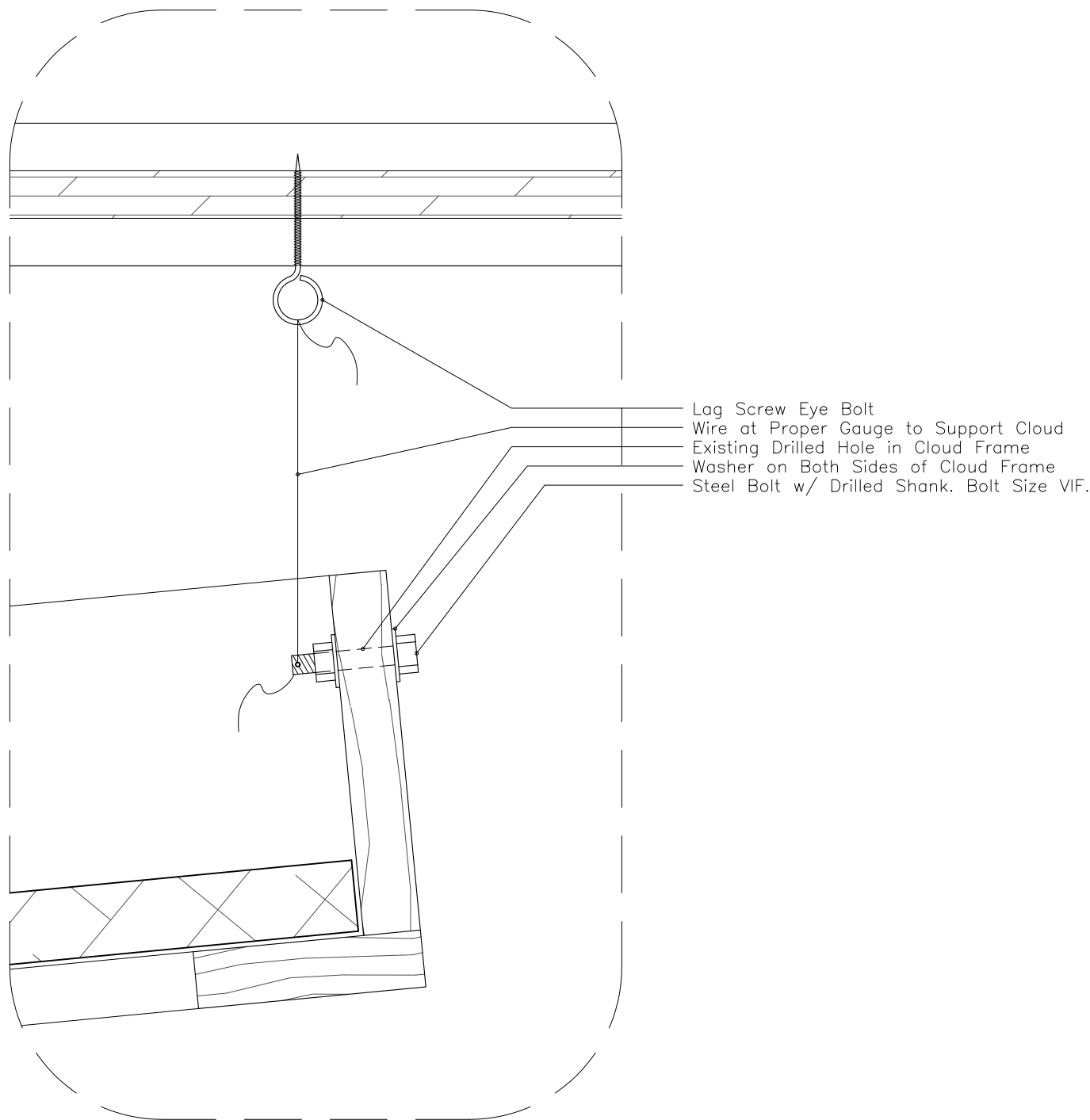
(B) Section Detail at Live Room Soffit



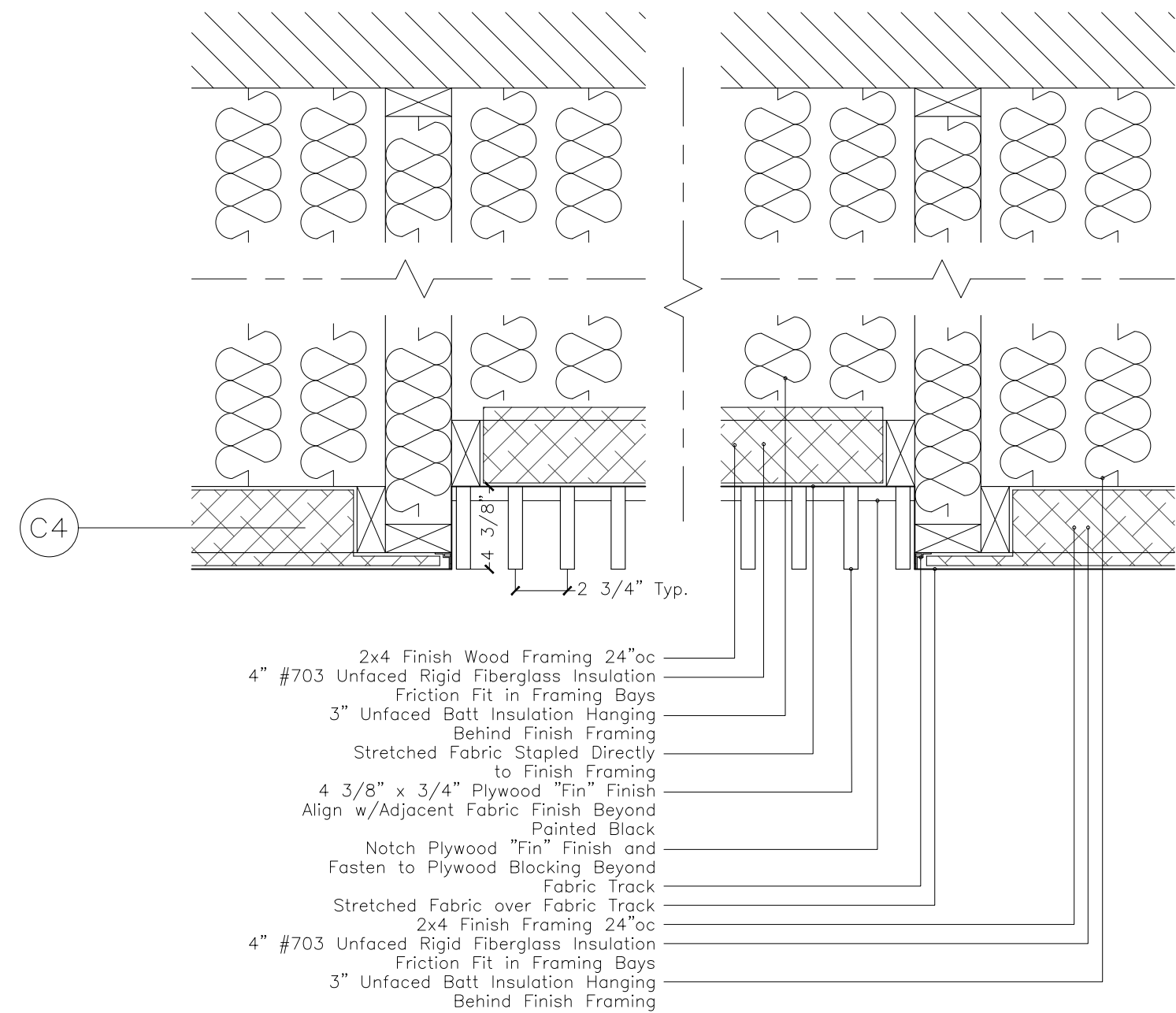
(C) Ceiling Cloud Section Detail



(D) Ceiling Cloud Suspension Detail



(E) Live Room Soffit Fin Finish Section Detail



SYMBOLS

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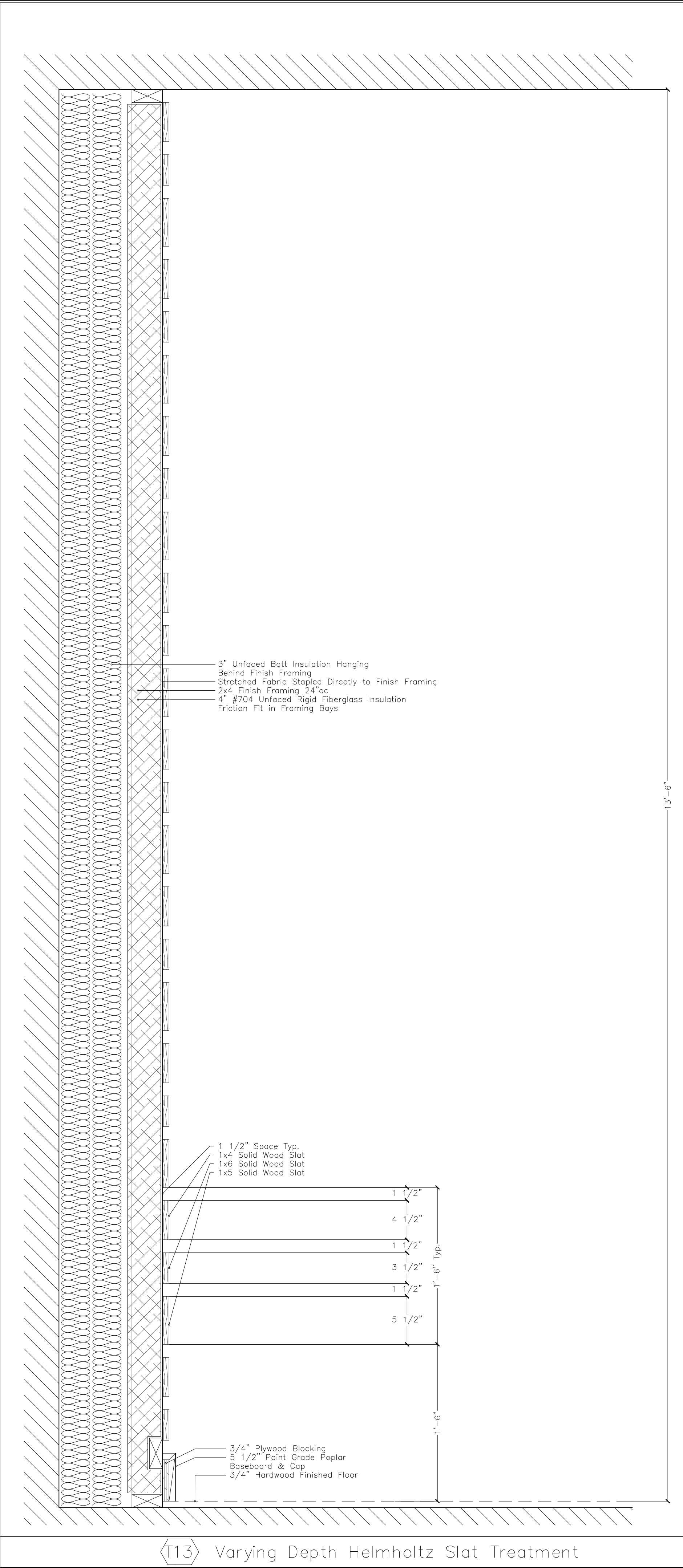
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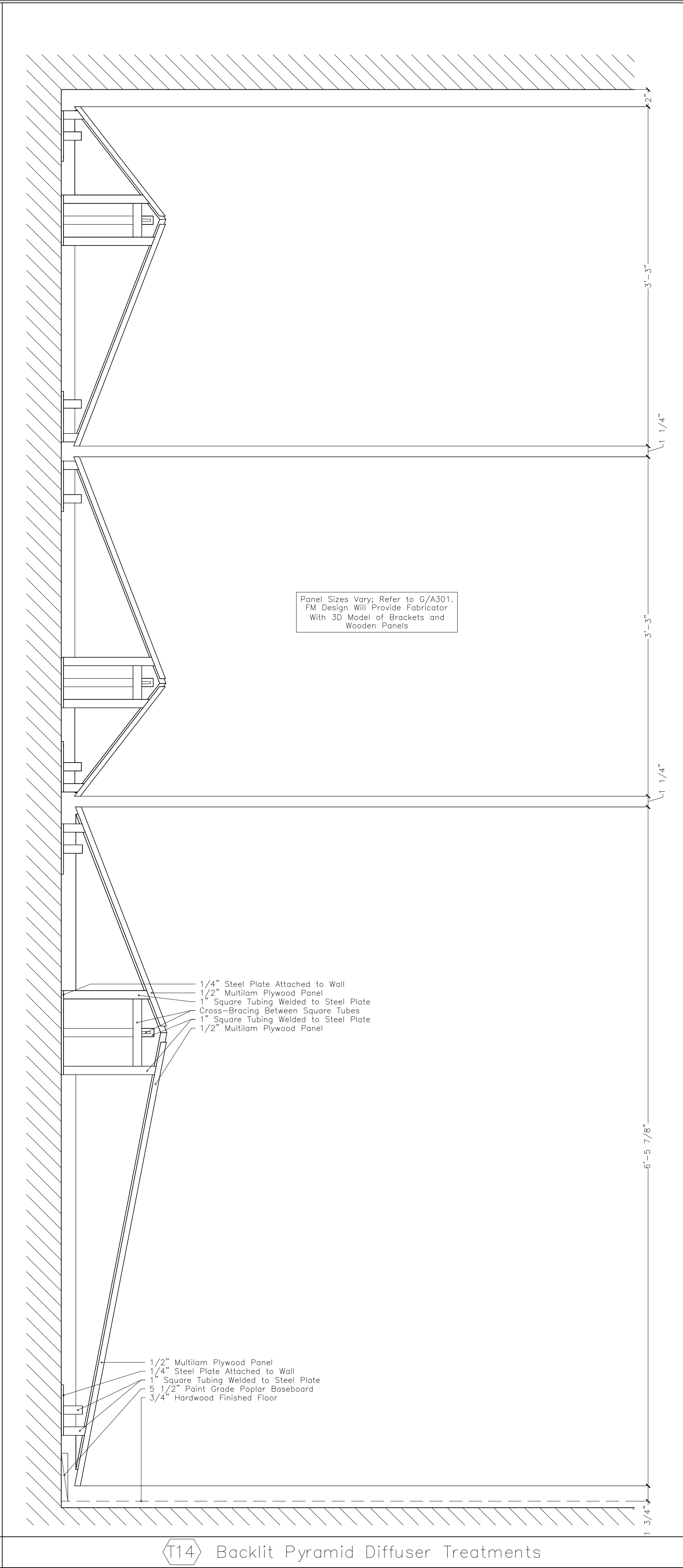
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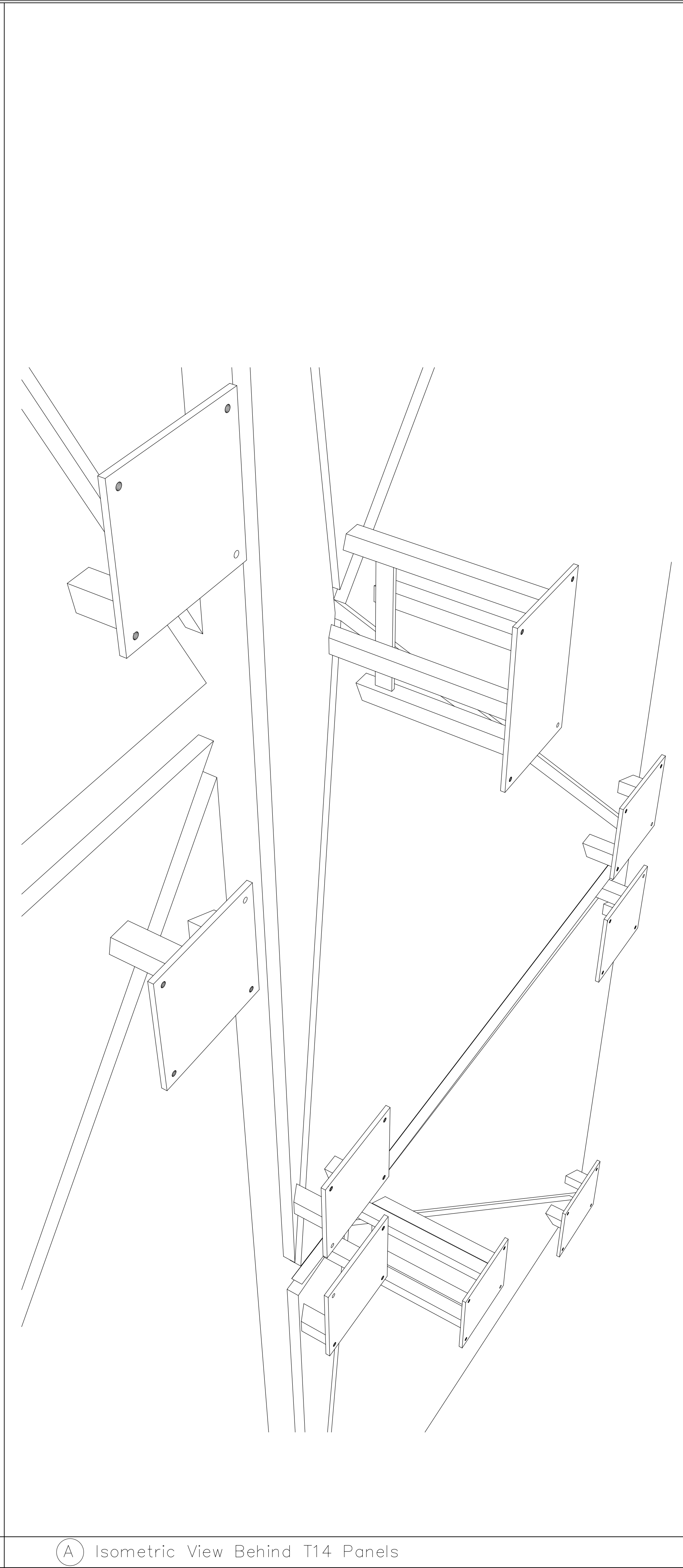
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T13 Varying Depth Helmholtz Slat Treatment



T14 Backlit Pyramid Diffuser Treatments



A Isometric View Behind T14 Panels

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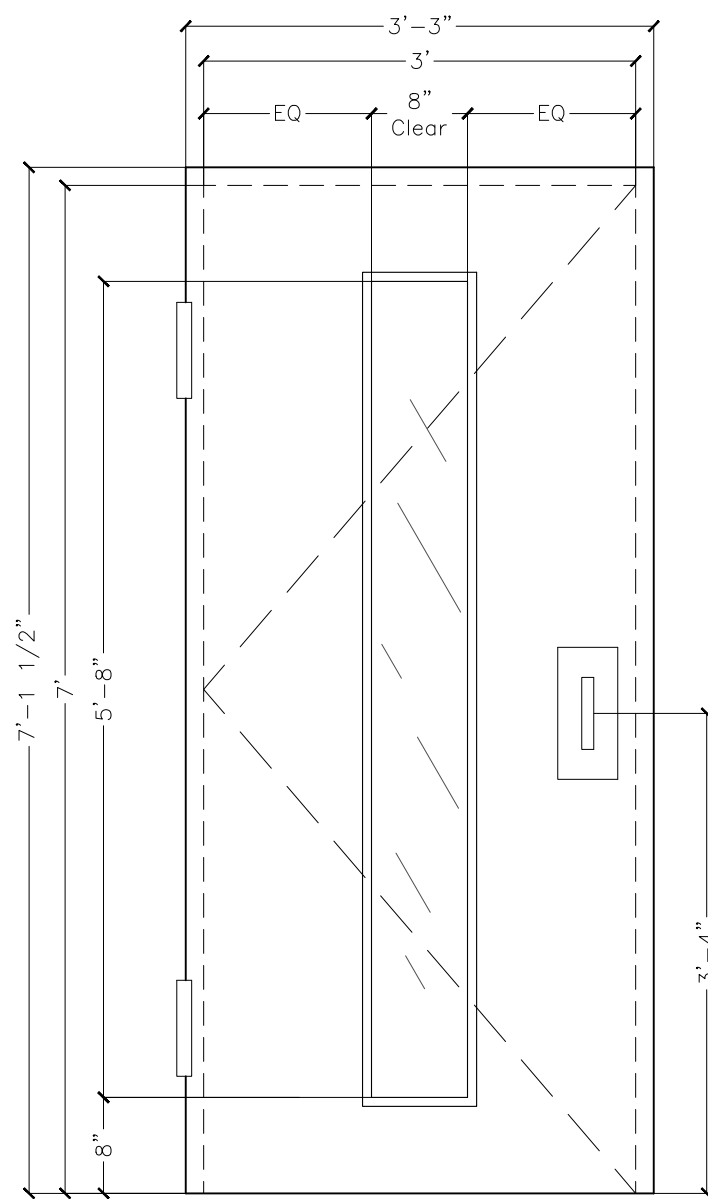
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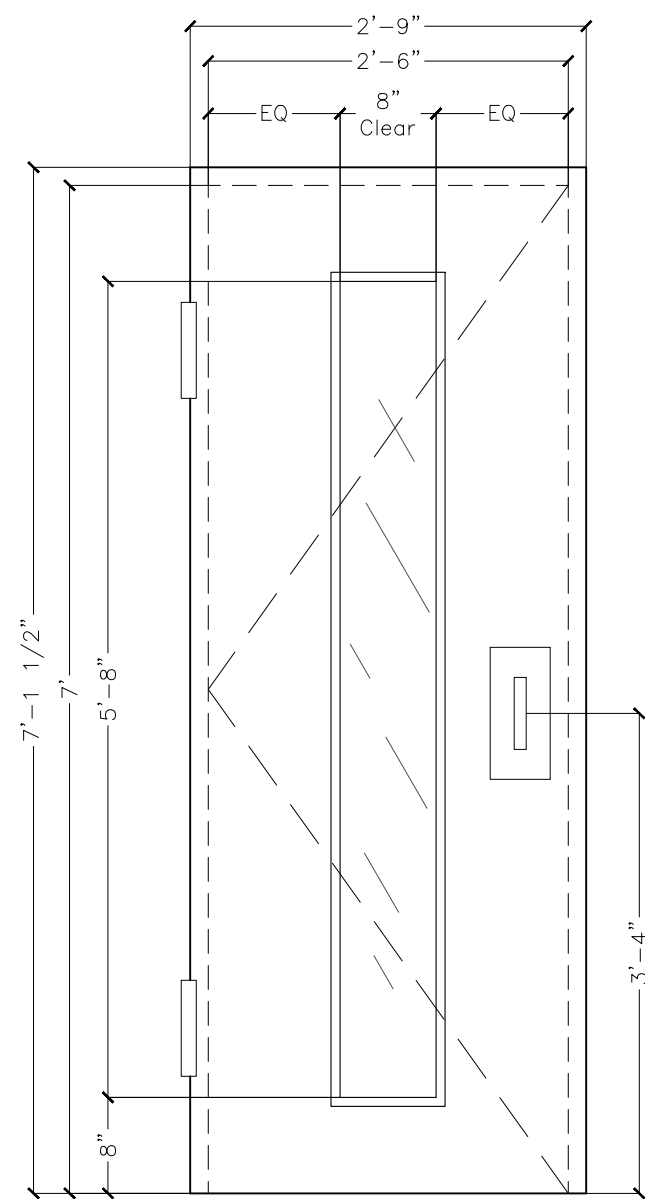
| DOOR SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|------------|-------|--------|------------------|----------------|--------------|-------|--------|---------|-----------------|-------------|-----------|-----------------|-----------------|------------------------|------------------------|--------------------------|-----------------|---------------|--------------------------|------------|------------|------------|------|--|-------|
| DOOR # | DIMENSIONS | | | MATERIALS | | DETAIL | | | GLAZING | | HARDWARE | | | | | | | | | | | | | TYPE | RATING | NOTES |
| | WD | HT | THK | DOOR MATERIAL | FRAME MATERIAL | JAMB | HEAD | THRESH | | | DOOR CLOSER | DROP SEAL | PERIMETER SEALS | METAL THRESHOLD | LEVER MORTISED PASSAGE | LEVER MORTISED PRIVACY | LEVER MORTISED DEAD BOLT | PUSH/PULL PLATE | ASTRAGAL SEAL | BALL BEARING BUTT HINGES | CAM HINGES | FLOOR STOP | KICK PLATE | | | |
| | | | | | | GROUT FILLED | | | | | | | | | | | | | | | | | | | ALL SOUND SEAL HARDWARE IS FROM ZERO INTERNATIONAL BROOKLYN NY (800) 635-5335 or (718) 585-3230 DROP SEALS = ZERO 367A PERIMETER SEALS = 770A METAL THRESHOLD = ZERO 566A | |
| 1 | 3'-0" | 7'-0" | 2-1/2" | Metal IAC STC-51 | Integral Metal | | C/402 | D/402 | D/402 | Factory Glazing | X | | X | | X | | | | | | X | X | X | X | A | |
| 2 | 3'-0" | 7'-0" | 2-1/2" | Metal IAC STC-51 | Integral Metal | | A/602 | D/602 | D/602 | Factory Glazing | X | | X | | X | | | | | | X | X | X | X | A | |
| 3 | 3'-0" | 7'-0" | 2-1/2" | Metal IAC STC-51 | Integral Metal | | B/602 | E/602 | F/602 | Factory Glazing | X | | | | X | | | | | | X | X | X | X | A | |
| 4 | 2'-6" | 7'-0" | 2-1/2" | Metal IAC STC-51 | Integral Metal | | C/602 | F/602 | F/602 | Factory Glazing | X | | | | X | | | | | | X | X | X | X | B | |
| 5 | 2'-8" | 7'-0" | 1-3/4" | Solid Core Wood | Metal | Yes | F/402 | F/402 | F/402 | Factory Glazing | X | X | X | | X | | | | | | X | X | X | X | C | |
| 6 | 3'-0" | 7'-0" | 1-3/4" | Hollow Metal | Metal | | | | | | X | | | | X | | | | | | X | X | X | X | D | |
| 7 | 5'-9" | 7'-0" | 1-3/4" | Hollow Metal | Metal | | | | | | X | | | | X | | | | | | X | X | X | X | O 60 Min | |

① 3070 2 1/2" IAC STC-51
Metal Sound Door
SCALE: 3/4"=1'-0"



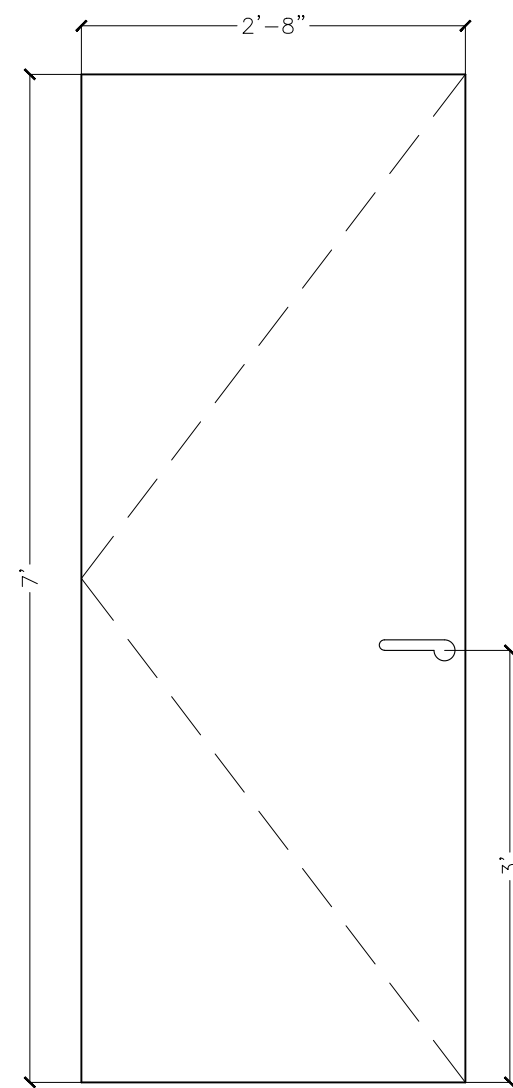
NOTE: Rough Opening for IAC
Doors is to be 41 1/2"W x 87"H
Exact and Plumb Solid Wood RO.

② 2670 2 1/2" IAC STC-51
Metal Sound Door
SCALE: 3/4"=1'-0"

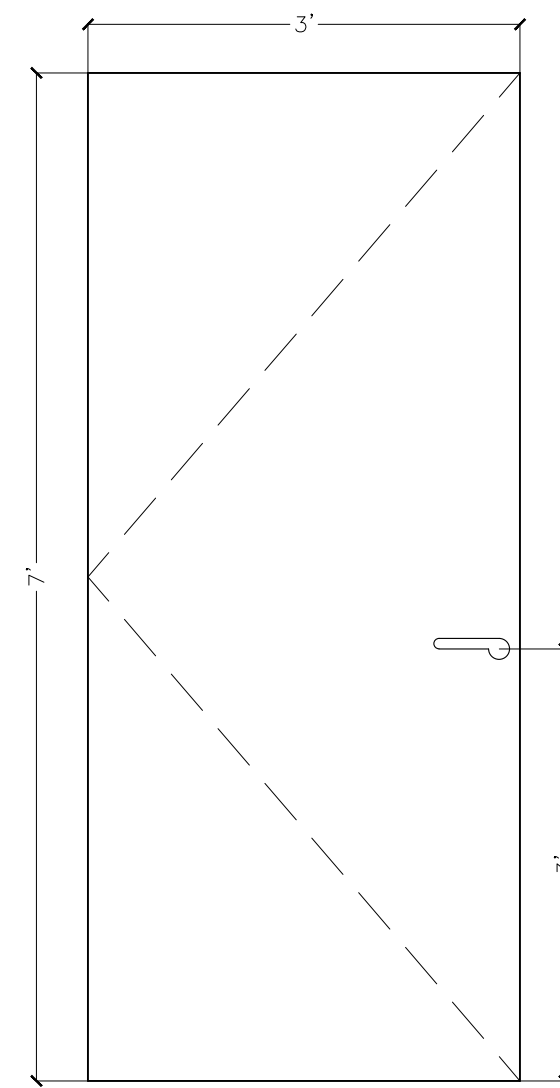


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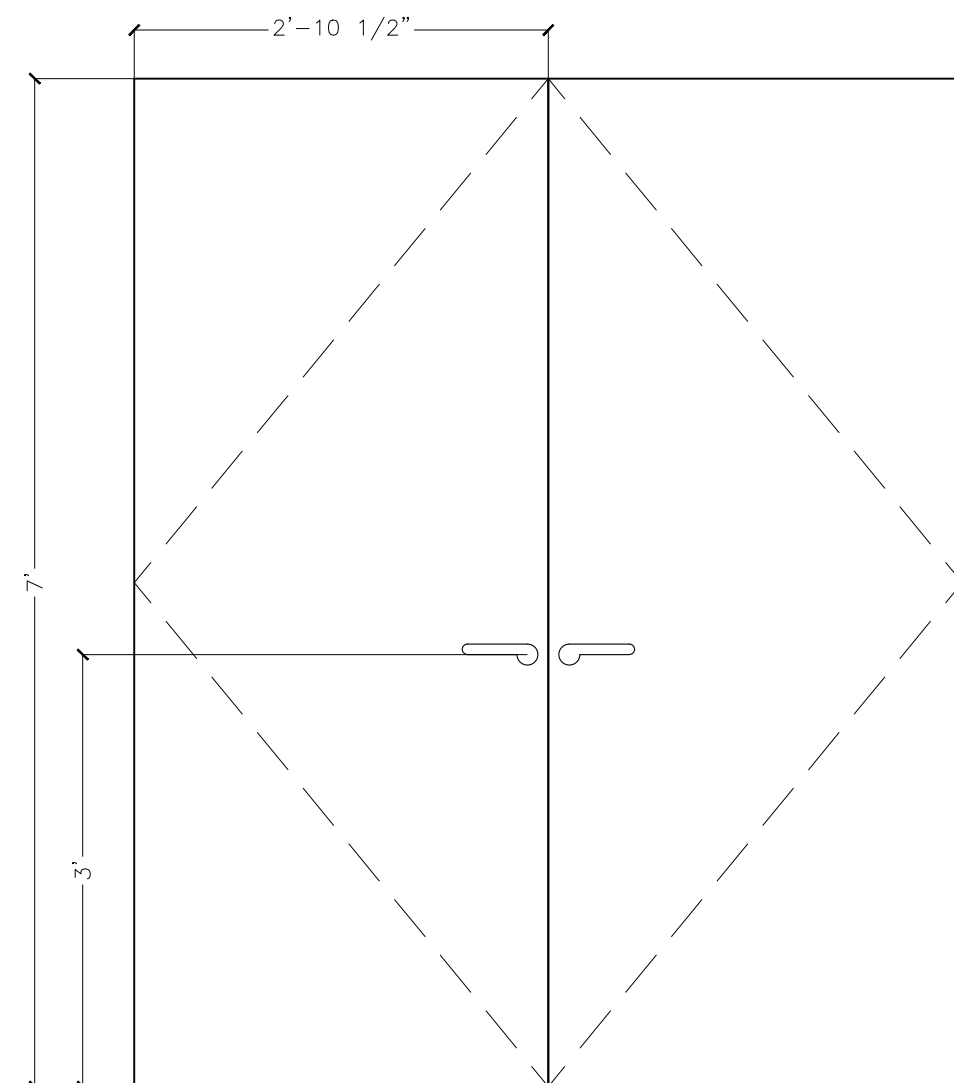
© 1 3/4" 2870 Solid
Core Wood Door
SCALE: 3/4"=1'-0"



① 1 3/4" 3070 Hollow
Metal Door
SCALE: 3/4"=1'-0"



① 1 3/4" 3070 Hollow
Metal Door
SCALE: 3/4"=1'-0"



SYMBOLS

[illegible]

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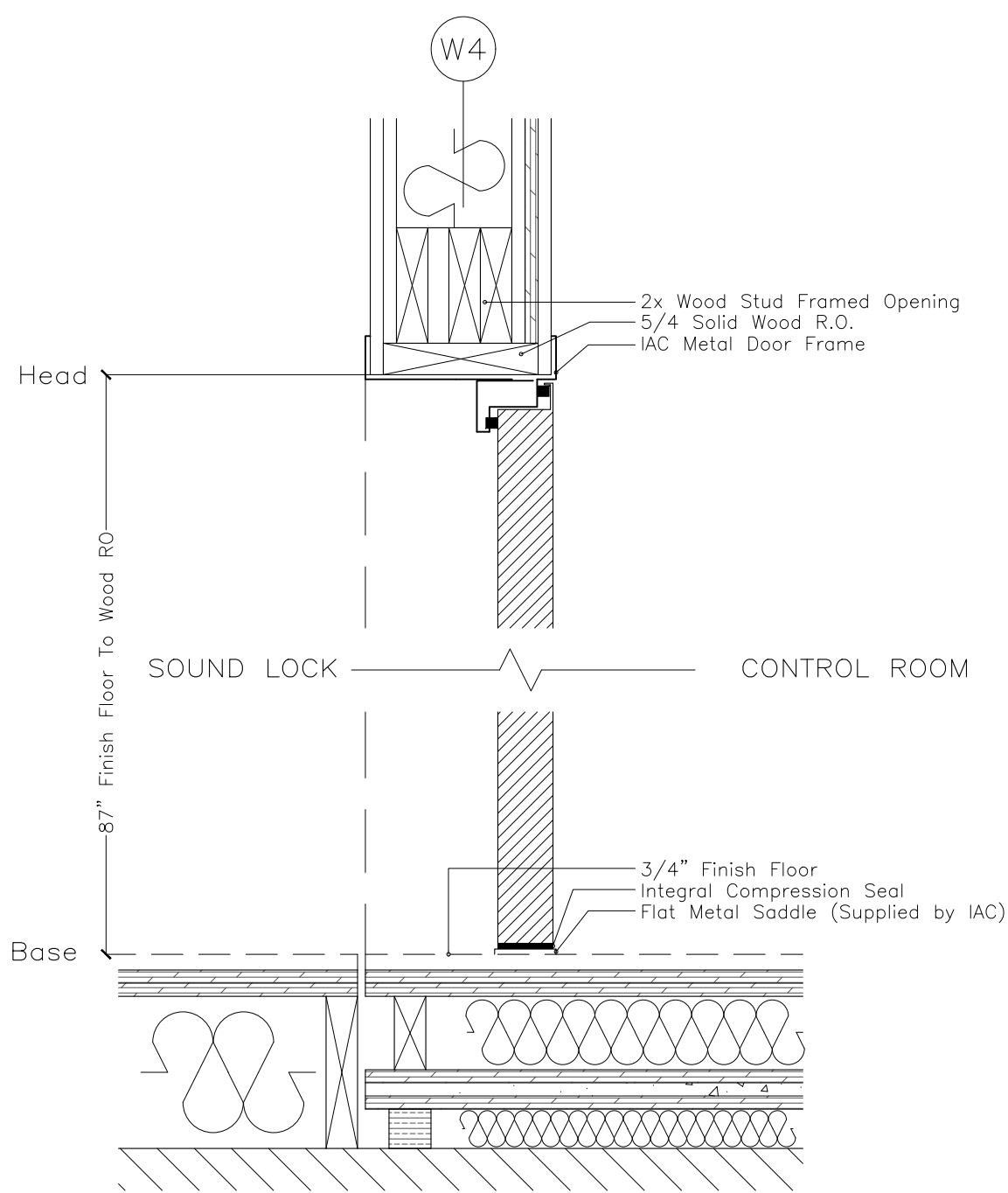
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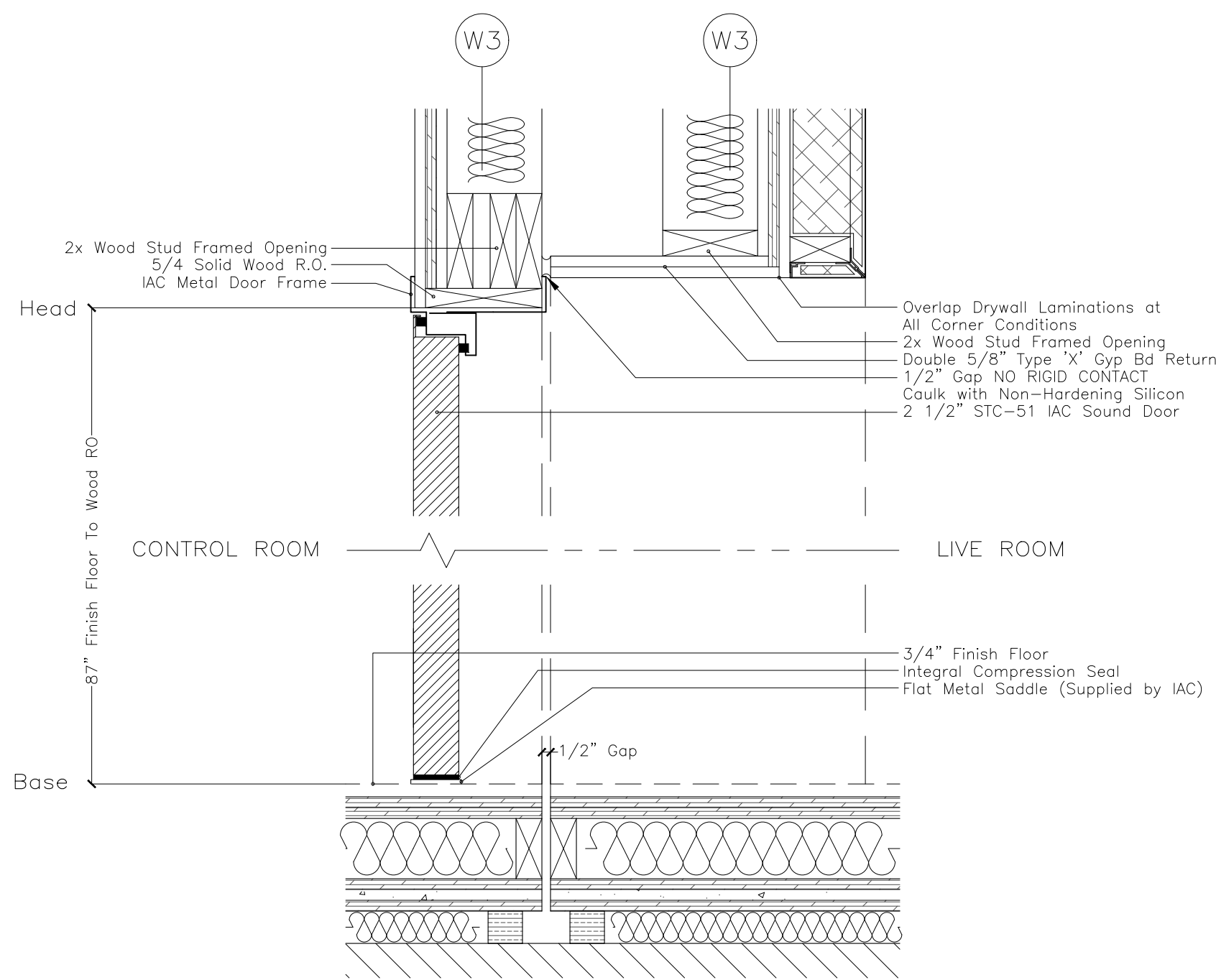
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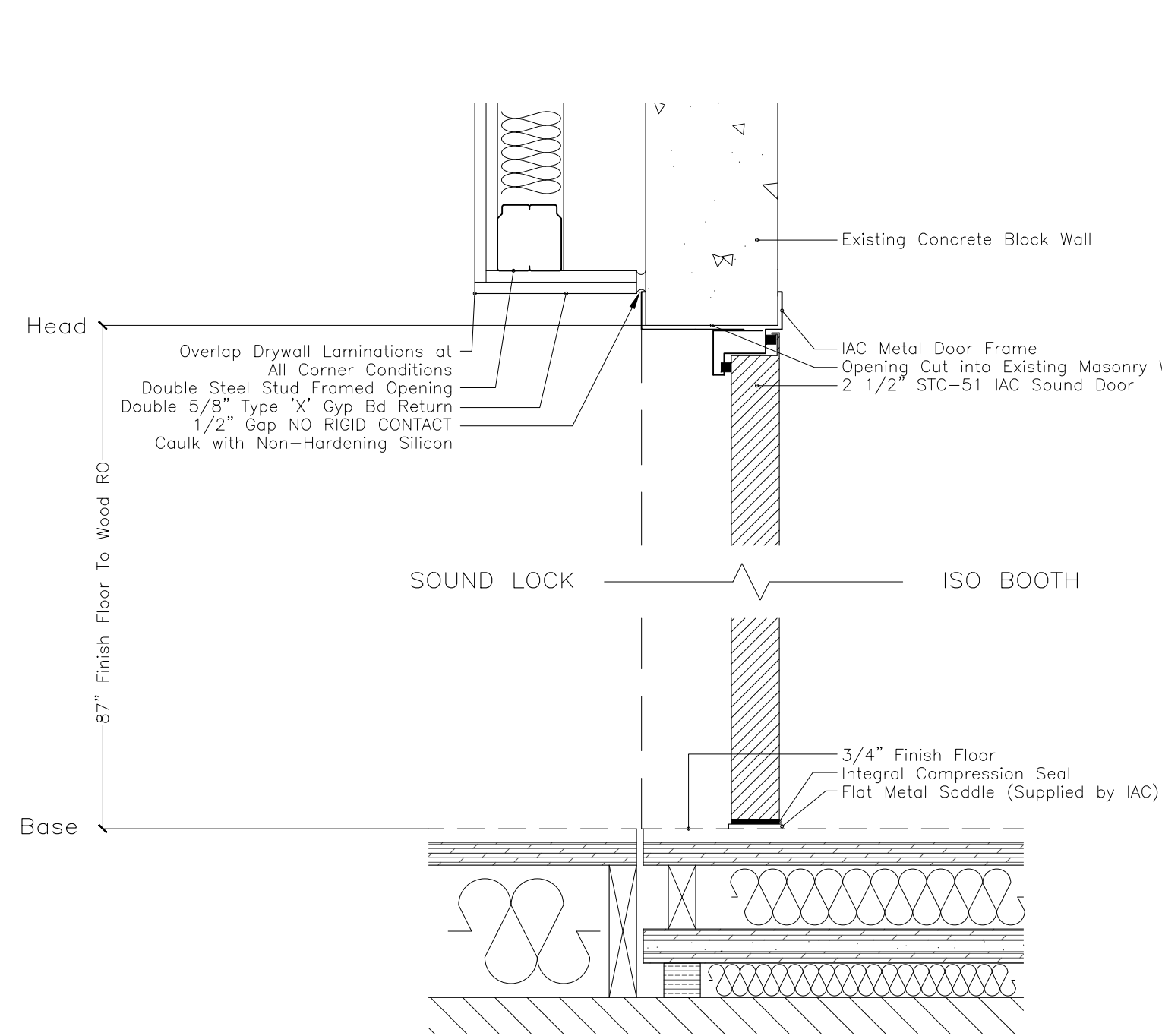
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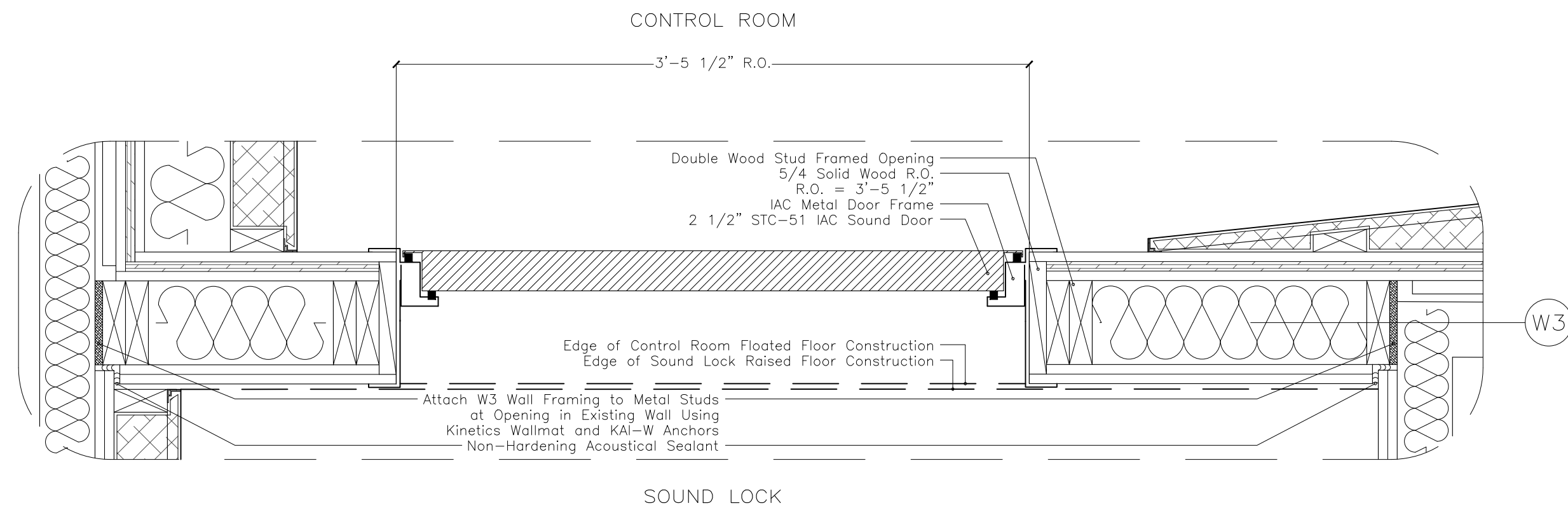
(A) Section at Door #2



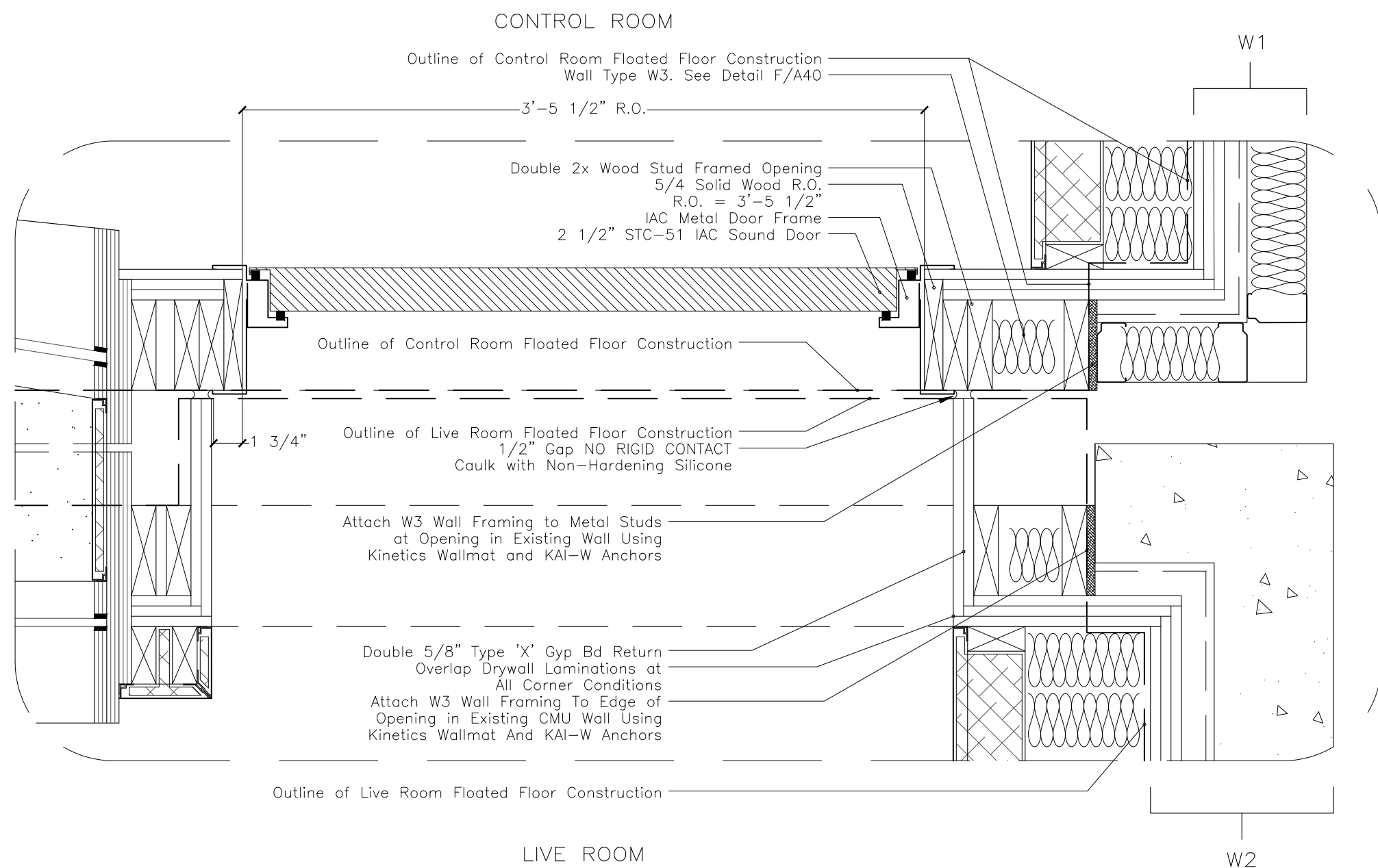
(B) Section at Door #3



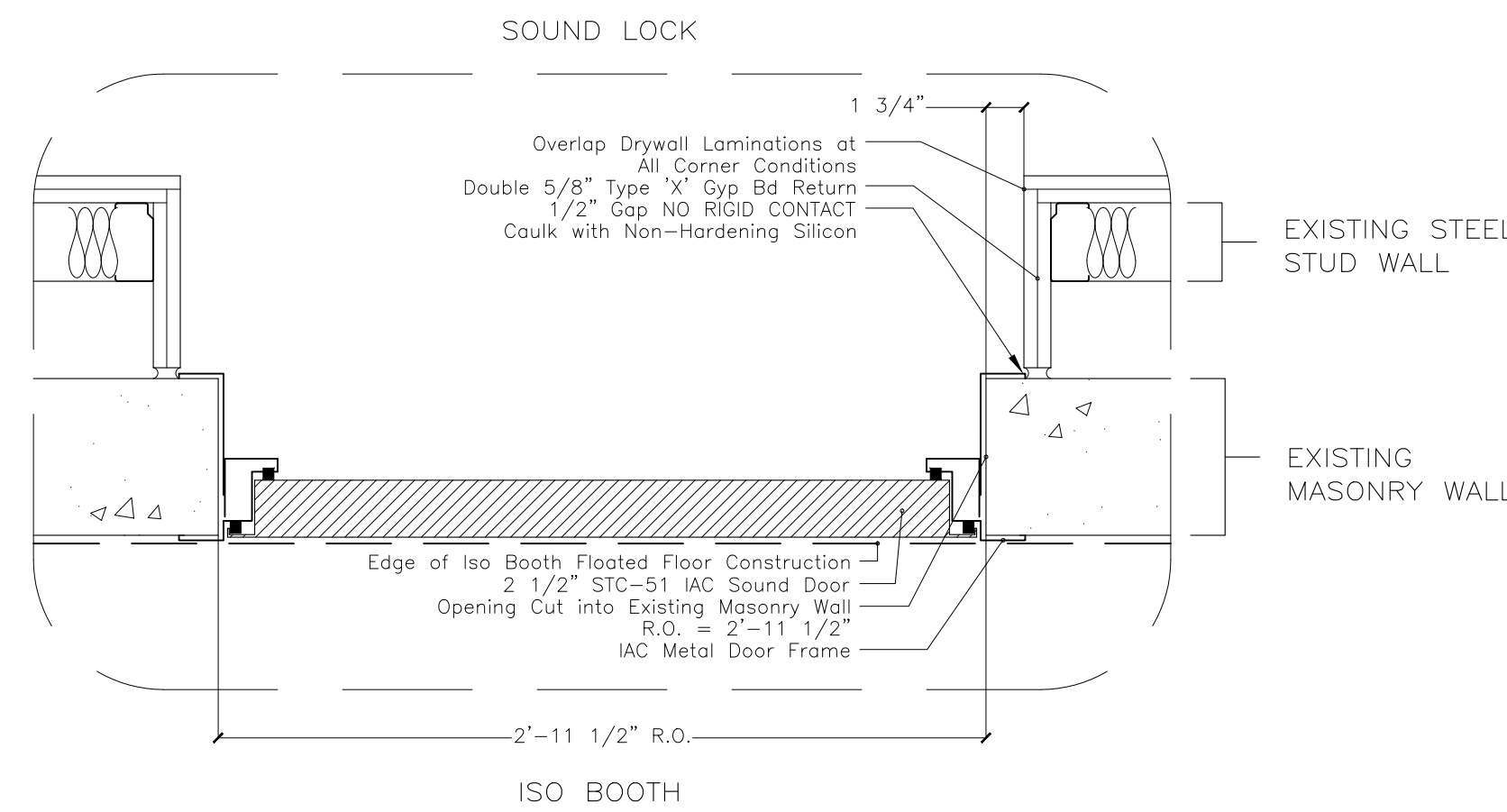
(C) Section at Door #4



(D) Plan Section at Door #2



(E) Plan Section at Door #3



(F) Plan Section at Door #4

| SYMBOLS | | | |
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| RIGID INSULATION SPECIFICATIONS #703 OWENS CORNING=3lb/cf UNFACED RIGID FIBERGLASS INSULATION. SUITABLE SUBSTITUTES FROM ALTERNATE MANUFACTURER IS ACCEPTABLE WITH PRIOR APPROVAL #705 OWENS CORNING=6lb/cf UNFACED RIGID FIBERGLASS INSULATION. SUITABLE SUBSTITUTES FROM ALTERNATE MANUFACTURER IS ACCEPTABLE WITH PRIOR APPROVAL | | | |
| Revisions | | | |
| REVISION # | DATE | REVISION | APPROVED |
| 01 | 07/13/21 | 100% CD | GM |

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PROJECT

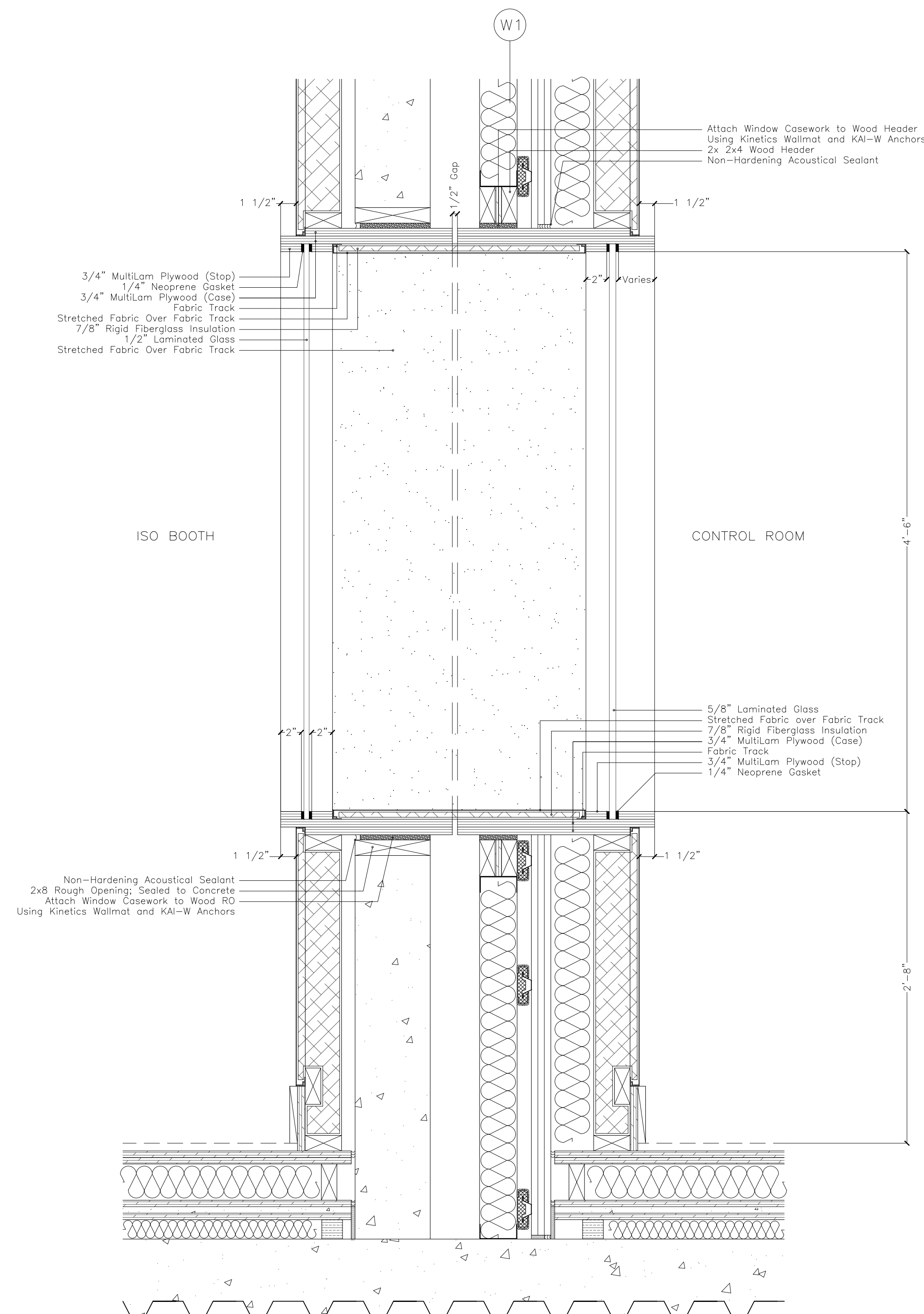
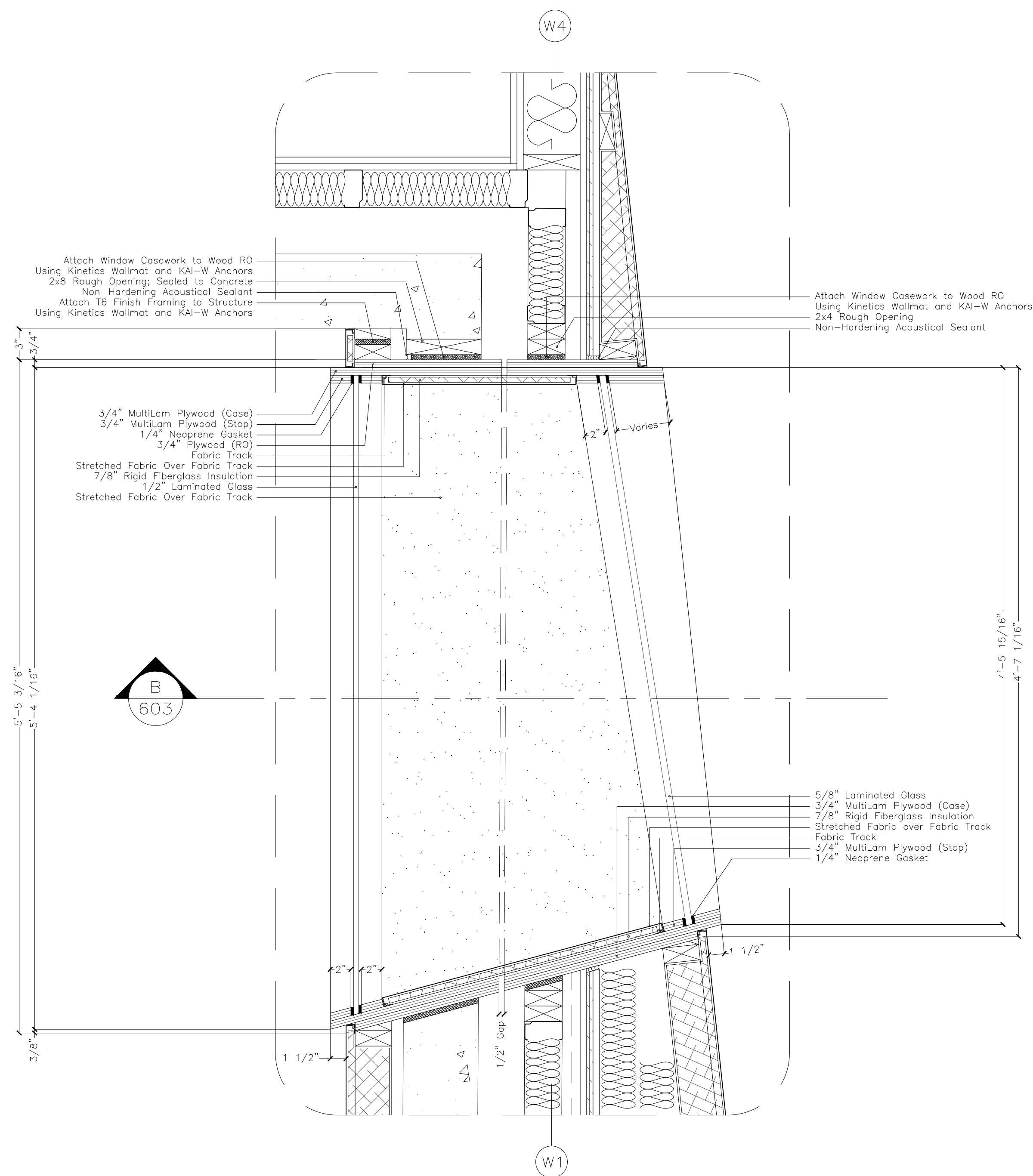
Purchase College
Studio A
Renovations

Purchase, NY

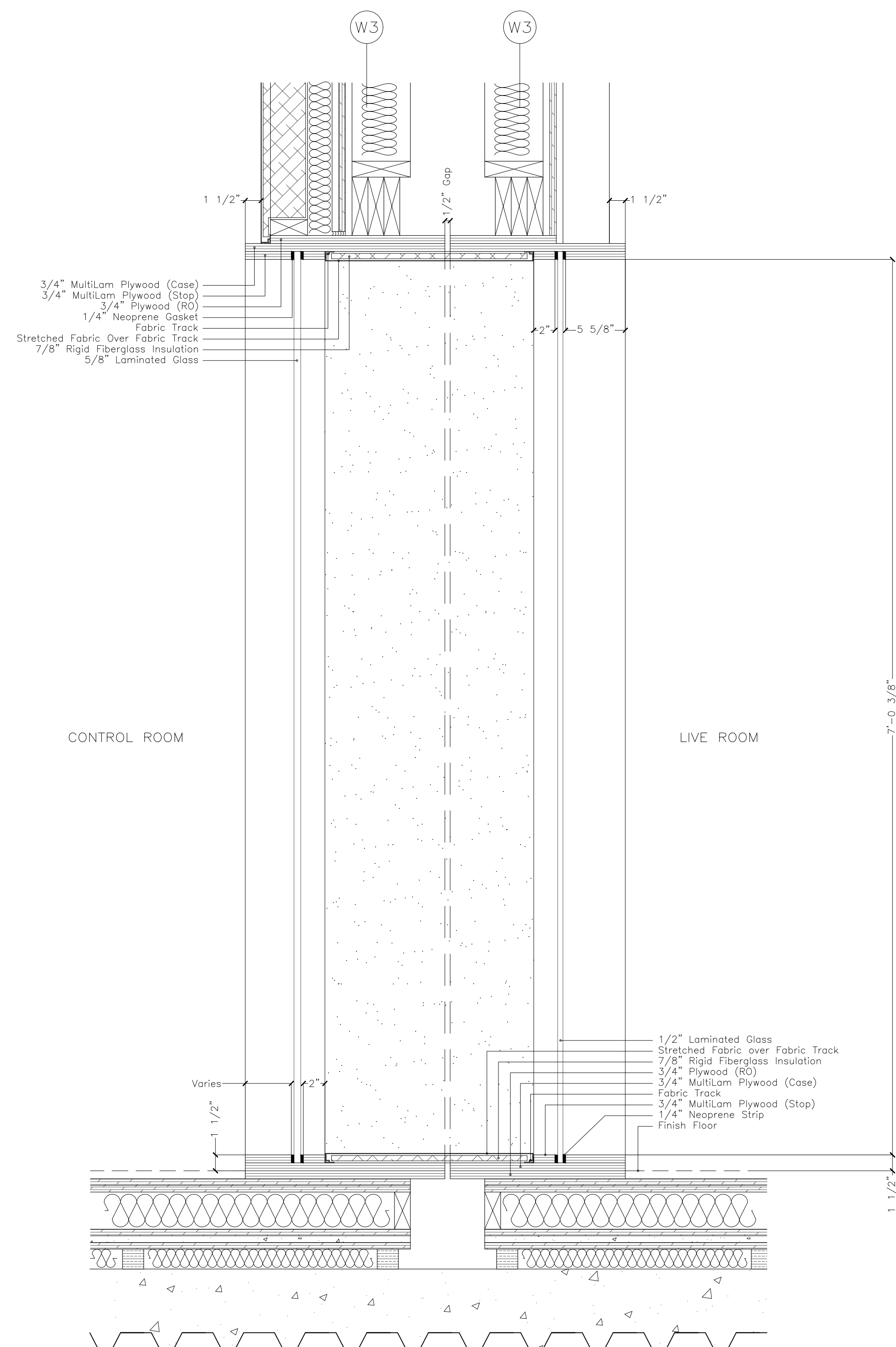
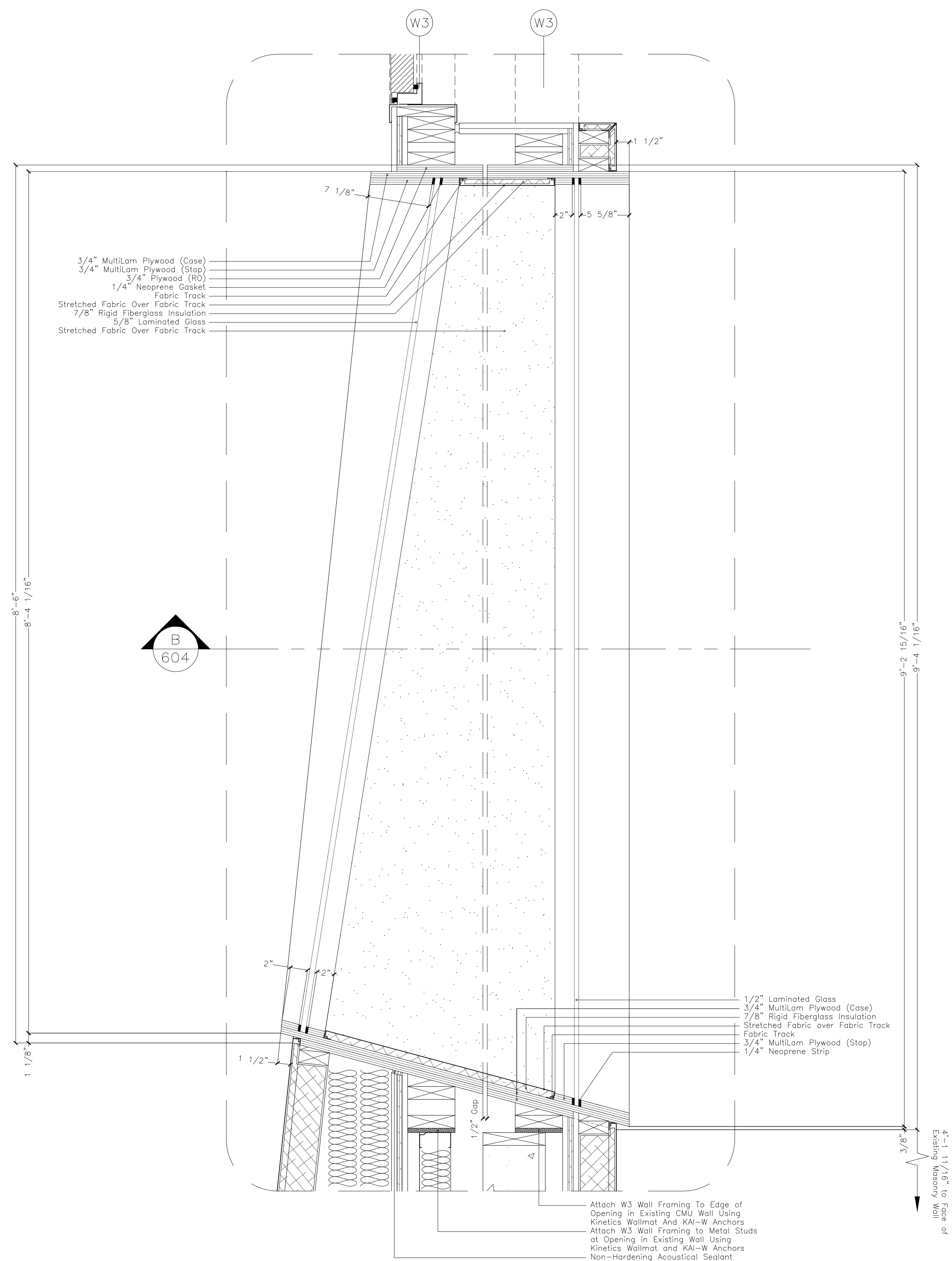
DRAWING NAME

DETAILS-DOORS

| SEAL & SIGNATURE | SCALE | 1 1/2"=1'-0" |
|------------------|----------------|--------------|
| | DATE | 07/13/2021 |
| | CAD FILE# | |
| | DRAWING NUMBER | A-602.00 |
| | | SHEET |



SHEET



SYMBOLS

ACOUSTIC
CONSTRUCTION NOTES

1. WHERE INDICATED, DRYWALL IS TO BE SEALED AT CEILING, FLOOR AND VERTICAL JOINTS USING ACOUSTIC SEALANT BEAD NOT LESS THAN 1/2" IN THICKNESS.
2. ALL DRYWALL CORNER JOINTS ARE OVERLAPPED AS SHOWN IN PRINCIPAL ON THE DRAWING DETAILS. ALL DRYWALL BOARDS ARE TO BE STAGGERED FROM PRECEDING LAYER AND JOINTS TAPED. ALL LAYERS OF JOINT COMPOUNDS SHALL BE SMOOTHED AND GLED W/ CONSTRUCTION ADHESIVE TO THE PRECEDING LAYER.
3. ACCURATE CUTTING OF DRYWALL IS ESSENTIAL. PATCHING IS NOT ACCEPTABLE.
4. WHERE RESILIENT CHANNEL IS SPECIFIED, USE USG RC-1 RESILIENT CHANNEL INSTALLED IN ACCORDANCE WITH USG STANDARDS. INSTALL CHANNEL WITH "FREE LEG" UP.
5. UNDER NO CIRCUMSTANCES IS THERE TO BE ANY RIGID CONTACT BETWEEN THE FLOATING INNER SHELL OF THE ISOLATED ROOMS AND THE STRUCTURE OF THE BUILDING. NO RIGID CONTACTS WITH STRUCTS, SPRINKLER PIPES OR ELECTRICAL CONDUITS MUST PENETRATE THE WALL OR CEILING, A FRAMED OPENING MUST BE MADE OVERSIZED TO ALLOW FOR A SEALED SOFT JOINT.
6. THE ACOUSTICAL DESIGNER MUST HAVE THE RIGHT OF REVIEW AND APPROVAL OVER ANY CHANGES MADE TO THESE SPECIFICATIONS. INSTALLATION MUST BE COMPLETED OF ALL MAJOR SYSTEMS BEFORE THEY ARE COVERED BY THE NEXT PHASE OF CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE ACOUSTIC DESIGNER AS THESE MAJOR ELEMENTS ARE COMPLETED.
7. ALL TIMBER FRAMING AND PLYWOOD LAMINATIONS ARE TO BE FIRE TREATED AS PER LOCAL BUILDING CODES.

RIGID INSULATION SPECIFICATIONS

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#703 OWENS CORNING=3lb/cf UNFACED RIGID FIBERGLASS
INSULATION. SUITABLE SUBSTITUTES FROM ALTERNATE
MANUFACTURER IS ACCEPTABLE WITH PRIOR APPROVAL
#705 OWENS CORNING=6lb/cf UNFACED RIGID FIBERGLASS
INSULATION. SUITABLE SUBSTITUTES FROM ALTERNATE
MANUFACTURER IS ACCEPTABLE WITH PRIOR APPROVAL

[illegible]

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| PROJECT |
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Purchase College Studio A Renovations

Purchase, NY

DRAWING NAME

DETAILS—WINDOWS

SEAL & SIGNATURE

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

| | |
|------|------------|
| DATE | 07/13/2021 |
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CAD FILE#

DRAWING NUMBER

A-604.00

SHEET

ABBREVIATIONS

| | |
|-------|-----------------------------------|
| A | AMPERES |
| AV | AUTOMATIC AIR VENT |
| AC | AIR CONDITIONING |
| ACCU | AIR COOLED CONDENSING UNIT |
| AD | ACCESS DOOR |
| AFF | ABOVE FINISHED FLOOR |
| AHU | AIR HANDLING UNIT |
| AL | ACOUSTICAL LINING |
| AP | ACCESS PANEL |
| BDD | BACK DRAFT DAMPER |
| BHP | BRAKE HORSEPOWER |
| BMS | BUILDING MANAGEMENT SYSTEM |
| BTU | BRITISH THERMAL UNIT |
| BTUH | BTUH PER HOUR |
| CCW | COUNTER CLOCKWISE |
| CD | CEILING DIFFUSER |
| CFM | CUBIC FEET PER MINUTE |
| CG | CEILING GRILLE |
| CHWR | CHILLED WATER RETURN |
| CHWS | CHILLED WATER SUPPLY |
| CLG | CEILING |
| COND | CONDENSATE |
| CP | CONDENSATE PUMP |
| CR | CEILING REGISTER |
| CU FT | CU FT |
| CU IN | CU IN |
| CWR | CONDENSER WATER RETURN |
| CWS | CONDENSER WATER SUPPLY |
| DWG | DRAWING |
| CV | CONSTANT VOLUME |
| CW | CLOCKWISE |
| D | DROP |
| DB | DRY BULB |
| DX | DIRECT EXPANSION |
| DHW | DOMESTIC HOT WATER |
| DIAM | DIAMETER |
| DN | DOWN |
| (E) | EXISTING TO REMAIN |
| EAT | ENTERING AIR TEMPERATURE |
| EDB | ENTERING DRY BULB TEMPERATURE |
| EF | EXHAUST FAN |
| EG | EXHAUST GRILLE |
| EL | ELEVATION |
| ELEC | ELECTRIC |
| EQ | EQUAL |
| (ER) | EXISTING TO BE REMOVED |
| (ERR) | EXISTING TO REMOVED AND RELOCATED |
| EWB | ENTERING WET BULB |
| EWt | ENTERING WATER TEMPERATURE |
| EXH | EXHAUST |
| EXP | EXPANSION |
| EXIST | EXISTING |
| °F | DEGREES FAHRENHEIT |
| F&T | FLOAT AND THERMOSTATIC |
| FA | FREE AREA (SQ.FT.) |
| FC | FLEXIBLE CONNECTION |
| FD | FIRE DAMPER |
| FLA | FULL LOAD AMPERES |
| FPI | FINS PER INCH |
| FPM | FEET PER MINUTE |
| FPS | FEET PER SECOND |

| | |
|--------|--|
| FT | FEET |
| FTR | FINNED TUBE RADIATION |
| G | GAUGE |
| GAL | GALLON |
| HC | HEATING COIL |
| HD | HEAD |
| HR | HOUR |
| HT | HEIGHT |
| HV | HEATING AND VENTILATING |
| HWR | HOT WATER RETURN |
| HWS | HOT WATER SUPPLY |
| HZ | FREQUENCY |
| IN | INCH OR INCHES |
| KW | KILOWATT |
| L | LENGTH |
| LAT | LEAVING AIR TEMPERATURE |
| LBS | POUNDS |
| LBD | LEAVING DRY BULB TEMPERATURE |
| LIN FT | LINEAR FEET |
| LPS | LOW PRESSURE SUPPLY |
| LPR | LOW PRESSURE RETURN |
| LRA | LOCKED ROTOR AMPS |
| LWB | LEAVING WET BULB TEMPERATURE |
| LWT | LEAVING WATER TEMPERATURE |
| MAV | MANUAL AIR VENT |
| MAX | MAXIMUM |
| MBH | THOUSAND BTUH PER HOUR |
| MER | MECHANICAL EQUIPMENT ROOM |
| MHP | MOTOR HORSEPOWER |
| MIN | MINIMUM |
| NO. | NUMBER |
| NTS | NOT TO SCALE |
| OA | OUTSIDE AIR |
| OAI | OUTSIDE AIR INTAKE |
| OED | OPEN ENDED DUCT |
| PD | PRESSURE DROP |
| PRV | PRESSURE REDUCING VALVE |
| PSI | POUNDS PER SQUARE INCH |
| PSIA | PSI ABSOLUTE |
| PSIG | PSI GAUGE |
| R | RISE |
| RA | RETURN AIR |
| RG | RETURN GRILLE |
| RLA | RUNNING LOAD AMPS |
| RM | ROOM |
| ROT | ROTATION |
| RPM | REVOLUTIONS PER MINUTE |
| (RRO) | EXISTING TO BE REMOVED AND RETURNED TO OWNER |
| RTU | ROOFTOP AIR-CONDITIONING UNIT |
| SA | SUPPLY AIR |
| SG | SUPPLY GRILLE |
| SP | STATIC PRESSURE |
| SPEC | SPECIFICATION |
| TEMP | TEMPERATURE |
| TR | TOP REGISTER |
| TRD | TRANSFER DUCT |
| TYP | TYPICAL |
| TX | TOILET EXHAUST |
| V | VOLTS |
| VA | VENTILATION AIR |
| WMS | WIRE MESH SCREEN |

SYMBOL LIST

| | |
|--|--|
| | SINGLE LINE DUCTWORK OR EQUIPMENT - NEW |
| | SINGLE LINE DUCTWORK OR EQUIPMENT - EXISTING |
| | DUCTWORK OR EQUIPMENT TO BE REMOVED |
| | DUCTWORK WITH ACOUSTICAL LINING |
| | DUCTWORK UNDER POSITIVE PRESSURE (SUPPLY AIR OR FAN DISCHARGE) |
| | DUCT UNDER NEGATIVE PRESSURE (RETURN,EXHAUST, OR OUTSIDE AIR) |
| | VOLUME DAMPER |
| | FIRE DAMPER AND ACCESS DOOR |
| | BACK DRAFT DAMPER |
| | MOTORIZED DAMPER |
| | COMBINATION SMOKE AND FIRE DAMPER (ELECTRIC) AND ACCESS DOOR |
| | CENTER LINE |
| | CUBIC FEET PER MINUTE |
| | DIAMETER |
| | AIRFLOW DIRECTION |
| | SQUARE FEET |
| | LOUVER IN DOOR - MIN. 1.0 SF FREE AREA |
| | UNDERCUT DOOR |
| | POINT OF CONNECTION |
| | POINT OF DISCONNECTION |
| | TYPE A CEILING DIFFUSER (400 CFM SUPPLY AIR) |
| | RECTANGULAR DIFFUSER WITH BLANKING PLATE |
| | VANED ELBOW |
| | RADIUS ELBOW |
| | SEE DUCT DETAILS FOR TYPE OF BRANCH CONNECTION |
| | DUCT FLEXIBLE CONNECTION |
| | VERTICAL DUCT DROP (IN DIRECTION OF AIRFLOW) |
| | VERTICAL DUCT RISE (IN DIRECTION OF AIRFLOW) |
| | THERMOSTAT |
| | DUCT SMOKE DETECTOR |
| | SECTION DESIGNATION |
| | SHEET NO. WHERE SECTION IS SHOWN |
| | NEW PIPE WITH DIRECTION OF FLOW |
| | EXISTING PIPING |
| | PIPING TO BE REMOVED |
| | PIPE DROP |
| | PIPE RISE |

GENERAL NOTES

- GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
- DRAWINGS ARE DIAGRAMMATIC. DETERMINE EXACT LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. RELOCATE EXISTING WORK THAT INTERFERES WITH WORK OF THIS CONTRACT.
- COORDINATE THIS WORK WITH THAT OF OTHER TRADES.
- DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL EXCEPT IN WAY OF STRUCTURAL STEEL. DIMENSIONS ARE MEASURED PERPENDICULAR TO FLANGE.
- PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURER'S REQUIREMENTS.
- RUN DUCTS AND PIPING CONCEALED WITHIN WALLS, CEILINGS, OR SOFFITS, UNLESS OTHERWISE SPECIFIED AND CLEAR OF CEILING INSERTS. COORDINATE ROUTING WITH ARCHITECT AND CONSTRUCTION METHODS.
- INSTALL THERMOSTATS 4'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE DIRECTED BY ARCHITECT.
- SPECIFICATIONS ARE PART OF THESE DOCUMENTS AND SCOPE OF WORK.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES.
- PROVIDE 36" CLEARANCE IN FRONT OF ALL ELECTRIC CONTROL PANELS PER N.E.C. AND MFG. REQUIREMENTS.

DEMOLITION NOTES

- THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF HVAC WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE OWNER/ENGINEER.
- THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE TO FUNCTIONING HVAC SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
- DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
- THE CONTRACTOR SHALL REMOVE ALL DUCT AND PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS AS NECESSARY.
- PORTIONS OF PIPING AND DUCTWORK TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED.
- THE CONTRACTOR SHALL NOTIFY THE CAMPUS, AT THE APPROPRIATE TIME, OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED MECHANICAL SERVICES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
- ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE HVAC CONTRACTOR, AS DIRECTED BY THE OWNER.
- ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVERTIME IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
- THE SHUTDOWN OF EXISTING BUILDING HVAC SERVICES SHALL BE COORDINATED WITH THE CAMPUS SERVICES. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.

AIR SYSTEMS

- INTERNAL AIRFLOW DIMENSIONS ARE SHOWN FOR DUCTS. INCREASE DUCT SIZE AS NECESSARY TO MAINTAIN FREE FLOW AREA INDICATED.
- PROVIDE VOLUME DAMPERS OR OTHER APPROVED BALANCING DEVICES AT DUCT BRANCHES AND RUN OUTS, AND AT REGISTER GRILLE AND DIFFUSER NECKS IN SUPPLY, RETURN AND EXHAUST DUCTWORK WHETHER SHOWN OR NOT.

MECHANICAL DRAWING LIST

| | |
|-------|---|
| M-001 | MECHANICAL SYMBOL LIST, GENERAL NOTES & ABBREVIATIONS |
| M-002 | MECHANICAL SPECIFICATIONS (SHEET 1) |
| M-003 | MECHANICAL SPECIFICATIONS (SHEET 2) |
| M-100 | MECHANICAL DEMOLITION PLAN |
| M-101 | MECHANICAL CONSTRUCTION PLAN |
| M-102 | MECHANICAL ROOF CONSTRUCTION PLAN |
| M-200 | MECHANICAL ELEVATIONS |
| M-300 | MECHANICAL DETAILS |
| M-400 | MECHANICAL SCHEDULES |

SYMBOLS

Revisions

| REVISION # | DATE | REVISION | APPROVED |
|------------|---------|------------------|----------|
| - | 7/8/21 | FINAL REVIEW SET | |
| - | 9/14/21 | ISSUED FOR BID | |

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PROJECT

Purchase College
Studio A
Renovations

DRAWING NAME

MECHANICAL SYMBOL LIST,
NOTES & ABBREVIATONS

SEAL & SIGNATURE

SCALE NONE

DATE

CAD FILE#

DRAWING NUMBER

M-001.00

SHEET

01 of 09

HVAC SPECIFICATIONS

1. GENERAL

- A. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.
- B. INVESTIGATE EACH SPACE THROUGH WITH EQUIPMENT MUST BE MOVED, WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.
- C. DUCTWORK IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISERS OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF DUCTWORK TO AVOID OBSTRUCTIONS. EXACT LOCATIONS ARE SUBJECT TO APPROVAL OF ARCHITECT. COORDINATION WITH THE EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES IS REQUIRED.
- D. SUPPORT ALL DUCTWORK AND PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OR SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING. INSERTS SHALL BE STEEL, SLOTTED TYPE AND FACTORY PAINTED. SINGLE ROD SHALL BE SIMILAR TO GRINNELL FIG. 281. MULTI-ROD SHALL BE SIMILAR TO FEE & MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS. MAXIMUM LOADING INCLUDING PIPES, DUCTWORK CONTENTS AND COVERING SHALL NOT EXCEED 75% OF RATED INSERT CAPABILITY. WHEN SUPPORTING FROM BUILDING USE BEAM CLAMPS IN APPROVED MANNER.
- E. INSTALL WORK AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- F. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES IN MAKING UP THE WORK PROPOSAL.
- G. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AREAS SHALL BE AFFECTING OTHER AREAS SHALL BE COORDINATED WITH BUILDING OWNER. INSTALL ISOLATION VALVES AT POINT OF CONNECTION TO THE EXISTING PIPING. PROVIDE TEMPORARY DUCT CAPS AND/OR CONNECTIONS TO MINIMIZE SHUTDOWN TIME.
- H. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY ARCHITECT.
- I. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW SYSTEM.
- J. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THE WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
- K. SEAL OPENINGS AROUND DUCTS AND PIPING THROUGH PARTITIONS, WALLS AND FLOORS (NOT IN SHAFTS) WITH APPROVED FIRESTOPPING METHODS.
- L. ALL PRESENT MATERIAL, EQUIPMENT AND CONSTRUCTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIC EQUIPMENT AND APPARATUS REQUESTED BY THE BUILDING REPRESENTATIVE, ARCHITECT OR AS NOTED TO BE RELOCATED ON THE DRAWINGS SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.
- M. MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- N. THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED, AND IN A MANNER SATISFACTORY TO THE OWNER. THE WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO THE PRESENT OCCUPANTS.
- O. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK IN OVERTIME AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.
- P. UNLESS OTHERWISE SPECIFICALLY SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.
- Q. REMOVABLE ACCESS TILE AND/OR ACCESS DOOR ARE REQUIRED IN HUNG CEILINGS, SHAFTS AND WALLS FOR ALL VOLUME AND FIRE DAMPERS, AUTOMATIC DAMPERS AND ALL OTHER MECHANICAL EQUIPMENT AND DEVICES. HVAC CONTRACTOR TO FURNISH ACCESS LOCATION REQUIREMENTS TO GENERAL CONTRACTOR. ACCESS TILE IDENTIFICATION: PROVIDE BUTTONS, TABS, AND MARKERS TO IDENTIFY LOCATION OF CONCEALED VALVES, DAMPERS AND EQUIPMENT.
- R. ALL MATERIAL AND EQUIPMENT SHALL HAVE A UL, CSA, OR OTHER TESTING APPROVED AGENCY NUMBER. THIS INFORMATION MUST BE INCLUDED IN THE SUBMITTAL PACKAGE.
- S. ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- T. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING DUCTWORK, PIPING (SIZES, CLEARANCES, ETC) AND CONDITIONS.
- U. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.
- V. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, BALANCED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.
- W. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES. WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," and "ALL" HAVE BEEN OMITTED FOR BREVITY.
- X. DEFINITIONS:
- 1) "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.
- 2) "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.
- 3) "FURNISH" OR "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.

- 4) "WORK": LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.
- 5) "CONCEALED": EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS, IN TRENCHES, IN CRAWL SPACES, OR IN ENCLOSURES.
- 6) "EXPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.
- 7) "SIMILAR" OR "EQUAL": EQUAL IN MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.
2. SCOPE OF WORK
- A. THE WORK UNDER CONTRACT INCLUDES ALL LABOR, MATERIALS AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER.
- B. THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH THE DEPARTMENT HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFORE. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.
- C. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OF ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES, BY OWNER, INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.
- D. PROGRESS AND SPECIAL INSPECTIONS SHALL BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER TO BE HIRED BY THE OWNER.
- E. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT PROVIDE COMPLETE SET OF COORDINATED SHOP DRAWINGS OF ALL NEW AND EXISTING EQUIPMENT, DUCTWORK, PIPING AND CONTROL SYSTEMS INDICATING CAPACITY DIMENSIONS AND SEQUENCE OF OPERATION FOR WRITTEN APPROVAL BY THE ARCHITECT AND ENGINEER.
3. SHOP DRAWINGS
- A. INDICATE ON EACH SUBMISSION: PROJECT NAME AND LOCATION, ARCHITECT AND ENGINEER, ITEM IDENTIFICATION AND APPROVAL STAMP OF PRIME CONTRACTOR.
- B. SUBMISSIONS:
- 1) SUBMISSIONS 11 IN. X 17 IN. OR SMALLER: IF THE SUBMISSION IS A CATALOG CUT, THEN THE CONTRACTOR SHALL SUBMIT ONE ORIGINAL AND TWO COPIES. OTHERWISE, HE SHALL SUBMIT THREE COPIES. THE ARCHITECT WILL FORWARD THE ORIGINAL AND ONE COPY (TWO COPIES WHEN NO ORIGINAL IS RECEIVED) TO THE ENGINEER. ALL CATALOG CUTS SHALL BE COMPLETE.
- 2) SUBMISSIONS LARGER THAN 11 IN. X 17 IN.: SUBMIT TWO PRINTS AND ONE PAPER SEPIA TO THE ARCHITECT. THE ARCHITECT WILL FORWARD ONE PRINT AND THE PAPER SEPIA TO THE ENGINEER.
- C. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:
- 1) DUCTWORK LAYOUT AND SHEET METAL DESIGNS.
- 2) ROOFTOP AIR-CONDITIONING UNIT
- 3) AIR OUTLETS AND INLETS.
- 4) AIR BALANCE REPORT.
- 5) OPERATING SEQUENCES.
- 6) VIBRATION ISOLATION.
- 7) AUTOMATIC CONTROL SYSTEMS AND DEVICES.
- 8) VAV BOXES.
- 9) DUCTWORK INSULATION AND LINER.
4. AS-BUILTS AND EQUIPMENT OPERATION INSTRUCTIONS
- A. ON COMPLETION AND ACCEPTANCE OF WORK, THIS CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS, EQUIPMENT MANUALS AND DEMONSTRATE TO THE OWNER THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT.
- B. THESE INSTRUCTIONS SHALL BE TYPED ON 8-1/2 IN. X 11 IN. PAPER AND BOUND IN THREE-RING BINDERS WITH CLEAR ACETATE COVERS. THE CONTRACTOR SHALL GIVE THREE COPIES OF THE INSTRUCTIONS TO THE OWNER AND ONE COPY TO THE ENGINEER.
- C. THE INSTRUCTION BOOKLET SHALL BE ORGANIZED IN SECTIONS, WITH ONE SECTION PER SYSTEM. THE COVER OF THE INSTRUCTION BOOKLET SHALL BEAR THE NAME, ADDRESS AND PHONE NUMBER OF THE PROJECT, ARCHITECT, ENGINEER, MECHANICAL CONTRACTOR AND SUBCONTRACTORS.
- D. REPRODUCIBLE "AS-BUILT" DRAWINGS INDICATING AS INSTALLED CONDITIONS SHALL BE PROVIDED TO THE ARCHITECT AFTER COMPLETION OF THE INSTALLATION.
5. SHEET METAL WORK
- A. EXCEPT AS OTHERWISE SHOWN OR NOTED, ALL DUCTWORK AND OTHER SHEET METAL WORK SHALL BE RECTANGULAR GALVANIZED SHEET STEEL AND SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. DUCT CONSTRUCTION STANDARDS, PRESSURE CLASSIFICATION 2 IN. W.G.
- B. VOLUME DAMPERS: GALVANIZED STEEL, PER SMACNA "LOW VELOCITY MANUAL," EXCEPT PROVIDE BEARING AT ONE END OF DAMPER ROD AND QUADRANT, WITH LEVER AND LOCKSCREW AT OTHER END. FOR INSULATED DUCTS, QUADRANTS MOUNTED ON COLLAR TO CLEAR INSULATION. INSTALL WITH LEVERS ACCESSIBLE.
- C. ACCESS DOORS: INSULATED OR UNINSULATED, SAME AS DUCT.
- 1) PROVIDE MINIMUM 12 IN. X 12 IN. ON MAIN DUCTS, AND 8 IN. X 8 IN. ON BRANCH DUCTS, UNLESS OTHERWISE APPROVED, AT FIRE DAMPERS, AND AT ALL DUCT ACCESSORIES SUCH AS DUCT SMOKE DETECTORS, AUTO DAMPERS, AND LOUVERS.
- 2) ALL ACCESS DOORS TO BE HINGED, WITH LATCH SIMILAR TO VENTLOCK NO. 100. REFER TO MECHANICAL DETAIL DRAWING FOR ADDITIONAL INFORMATION.
- D. FLEXIBLE CONNECTIONS: NEOPRENE-COATED GLASS FABRIC, 30 OZ PER SQ YD WITH SEWED AND CEMENTED SEAMS, SIMILAR TO VENT FABRICS. PROVIDE WITH METAL COLLARS. ALLOW MINIMUM MOVEMENT OF 1 IN.

- E. TURNING VANES: GALVANIZED STEEL SMALL DOUBLE-THICKNESS VANES WITH 2 IN. INSIDE RADIUS.
- F. ALL DUCT DIMENSIONS INDICATED ON PLANS ARE INSIDE CLEAR DIMENSIONS.
- G. WIRE MESH SCREEN (WMS): NO. 16 USSG, 3/4 SQUARE MESH, IN 1 IN. WIDE GALVANIZED STEEL ENCLOSING FRAME. FLANGED DUCT OPENING TO RECEIVE FRAME.
- H. LOW PRESSURE FLEXIBLE DUCT: SHALL BE A FACTORY FABRICATED HIGH TEMPERATURE COPOLYMER IMPREGNATED GLASS FABRIC, LOCKED TO COLD ROLLED FLAT STEEL SPIRAL. SIMILAR TO WIREMOLD 57. MAXIMUM INSTALLED LENGTH SHALL NOT EXCEED 18 IN.
6. AIR OUTLETS
- A. GENERAL:
- 1) MARGIN TYPES, COLORS, FINISH AND METHODS OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE COORDINATED WITH ARCHITECTURAL CEILING AND WALL DETAILS AND SPECIFICATIONS.
- 2) FRAME TYPE SUITABLE FOR MOUNTING IN CEILING OR WALL CONSTRUCTION AS INDICATED ON ARCHITECTURAL PLANS.
- 3) EXACT LOCATION OF ALL AIR OUTLETS AS PER ARCHITECTURAL PLANS.
- 4) SUITABLE FOR OPERATION AT 20% EXCESS AND 20% LESS THAN NOTED CAPACITY FOR CONSTANT VOLUME SYSTEMS AND AT 20% EXCESS AND 60% LESS THAN NOTED CAPACITY FOR VARIABLE VOLUME SYSTEMS. MANUFACTURER RESPONSIBLE FOR EXAMINING APPLICATION OF EACH OUTLET AND GUARANTEE THAT EACH WILL PROVIDE REQUIRED NC LEVELS AND COMFORT SPACE CONDITIONS WITHOUT DRAFTS THROUGHOUT OPERATING RANGE.
- 5) ALL REGISTERS AND DIFFUSERS SHALL BE PROVIDED WITH OPPOSED BLADE VOLUME DAMPERS. DAMPER OPERATING LEVERS SHALL BE ACCESSIBLE AT THE FACE OF AIR OUTLETS.
- B. REGISTERS AND GRILLES:
- 1) RETURN AND EXHAUST REGISTERS: STEEL CONSTRUCTION WITH VOLUME DAMPER. SIMILAR TO TITUS 300RL.
- 2) SUPPLY REGISTERS: ALUMINUM CONSTRUCTION, SINGLE DEFLECTION BAR GRILLE, WITH VOLUME DAMPER. SIMILAR TO TITUS CT-580.
- 3) TRANSFER GRILLES: STEEL CONSTRUCTION WITHOUT VOLUME DAMPER. SIMILAR TO TITUS 300RL.
7. NOISE CONTROL
- A. ALL ROOM NC LEVELS SHALL BE 20 OR LESS.
- B. PROVIDE SOUND LINING FOR THE FOLLOWING DUCTWORK:
- 1) ALL SUPPLY & RETURN DUCTWORK ON EACH SIDE OF ALL FANS AND AC UNITS.
- 2) AIR TRANSFER DUCTS.
- 3) ENTIRE DISTANCE DOWNSTREAM OF ALL VARIABLE AIR VOLUME BOXES.
- 4) ALSO WHERE NOTED ON A DRAWING.
- C. SOUND LINING IN DUCTWORK: FIBROUS GLASS, MINIMUM 3 LB DENSITY, 2 IN. THICKNESS, MAXIMUM 0.25 K FACTOR AT 75 DEG F MEAN TEMPERATURE WITH ACRYLIC COATED FINISH FACTORY APPLIED EDGE COATING AND STENOILED IN ACCORDANCE WITH NFPA 90. FLAMESPREAD SHALL BE A MAXIMUM OF 25. LINING SHALL NOT SUPPORT MICROBIAL GROWTH AND SHALL BE TESTED IN ACCORDANCE WITH ASTM C 1071 AND ASTM G21/G22.
- D. ALL SOUND LINING, ADHESIVES, FACES AND ACCESSORIES TO BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, EXCEPT AS OTHERWISE NOTED.
8. TESTING AND BALANCING
- A. AIR BALANCING SHALL BE ACCOMPLISHED BY ADJUSTMENT OF FANS AND BRANCH DAMPERS FOR MAJOR ADJUSTMENTS. ADJUSTMENT OF TERMINAL DAMPERS AND DEVICES SHALL BE FOR TRIM OR MINOR ADJUSTMENT ONLY. THIS SHALL BE DONE TO PERMIT THE LEAST NOISE GENERATION IN THE TERMINAL AREAS AND UTILIZE MINIMUM FAN ENERGY.
- B. UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL REBALANCE ANY EXISTING PORTIONS OF AIR DISTRIBUTION SYSTEM AND WATER DISTRIBUTION SYSTEM AFFECTED BY THE RENOVATION AND ALSO BALANCE ALL NEW WORK.
- C. THE CONTRACTOR SHALL PROVIDE ALL LABOR, PRESSURE GAUGES, FLOW METERS, SHEAVES, AND BELTS REQUIRED TO BALANCE SYSTEMS.
- D. FANS, AIR HANDLING UNITS, AND COILS SHALL BE BALANCED TO WITHIN +5% OF THEIR DESIGN CAPACITIES. ALL OTHER AIR QUANTITIES SHALL BE BALANCED TO WITHIN +10% OF THE DESIGN QUANTITIES.
- E. BALANCING AND TESTING SHALL BE PERFORMED AND SUPERVISED BY ONE OF THE FOLLOWING INDEPENDENT FIRMS SPECIALIZING IN TESTING AND BALANCING:
- 1) PRECISION TESTING AND BALANCING, INC.
- 2) AIR CONDITIONING TEST AND BALANCING CORP.
- 3) CFM TESTING AND BALANCING CO.
- F. THE PERFORMANCE AND CAPACITY OF ALL SYSTEMS AND EQUIPMENT TO BE DEMONSTRATED BY THE CONTRACTOR.
9. INSULATION - GENERAL REQUIREMENTS
- A. ALL INSULATION MATERIALS, INCLUDING JACKETS, FACING, ADHESIVE, COATINGS, AND ACCESSORIES ARE TO BE FIRE HAZARD RATED AND LISTED BY UNDERWRITERS LABORATORIES, INC. USING STEINER TUNNEL TEST METHOD FOR FIRE HAZARD CLASSIFICATION OF BUILDING MATERIALS, STANDARD UL 723 (ASTM E-84), (ASA A2.5-1963). FLAMESPREAD: MAXIMUM 25. FUEL CONTRIBUTED AND SMOKE DEVELOPED: MAXIMUM 50. FLAMEPROOFING TREATMENTS SUBJECT TO DETERIORATION FROM MOISTURE OR HUMIDITY ARE NOT ACCEPTABLE.
- B. DEFINITIONS:
- 1) EXPOSED: INDOOR DUCTS, PIPING OR EQUIPMENT LOCATED IN MECHANICAL EQUIPMENT ROOMS AND IN AREAS WHICH WILL BE VISIBLE WITHOUT REMOVING CEILINGS OR OPENING ACCESS PANELS.
- 2) CONCEALED: INDOOR DUCTS, PIPING OR EQUIPMENT WHICH IS NOT EXPOSED.
10. DUCTWORK INSULATION
- A. INSULATE ALL DUCTWORK IN ACCORDANCE WITH INSULATION SCHEDULE EXCEPT AS OTHERWISE NOTED.
- INSULATION SCHEDULE - DUCTWORK
- | SERVICE | LOCATION | THICKNESS | MATERIAL | FINISH |
|---------------|-----------|-----------|----------|-----------|
| SUPPLY/RETURN | CONCEALED | 1-1/2" | D-1 | VAPORSEAL |
- B. REINSULATE ALL DUCTWORK AND PIPING WHICH IS EXISTING AND DAMAGED DURING

- CONSTRUCTION OR SHOWN OR REQUIRED TO BE RELOCATED. INSULATE WITH SAME MATERIAL AND THICKNESS.
- C. NON-INSULATED INSTALLATION:
- 1) WHERE SOUND LINING IS OF MINIMUM THICKNESS SPECIFIED FOR INSULATION.
- D. MATERIAL:
- 1) TYPE D-1: MINIMUM 1-LB DENSITY FIBERGLASS BLANKET, MAXIMUM 0.28 K-FACTOR AT 75 DEG F MEAN TEMPERATURE WITH FACTORY-APPLIED FOIL-SKIRM-KRAFT FACING SIMILAR TO MANVILLE MICROLITE.
- 2) TYPE D-2: 3 LB. FIBERGLASS BOARD. THE MAXIMUM K FACTOR SHALL BE 0.23 AT 75 DEG F MEAN TEMPERATURE WITH A MINIMUM DENSITY OF 3 LB. THE INSULATION SHALL BE PROVIDED WITH A FACTORY-APPLIED ALL PURPOSE OR ALL SERVICE FACING. THE INSULATION SHALL BE EQUAL TO MANVILLE TYPE 814 SPIN-GLASS AP.
- 3) TYPE D-3: MINIMUM 6 LB FIBERGLASS BOARD. MAXIMUM 0.22 K-FACTOR AT 75 DEG F MEAN TEMPERATURE WITH FACTORY APPLIED ALL PURPOSE OR ALL SERVICE FACING. SIMILAR TO MANVILLE 817 SPIN-GLASS AP.
- E. INSTALLATION:
- 1) FIBERGLASS BLANKET: 2 IN. LAP STRIPS AT ALL SEAMS. SECURE BOTTOM OF ALL DUCTS OVER 24 IN. WIDE WITH MIN. 2 ROWS OF WELD PINS 12 IN. ON CENTER. SECURE ALL SEAMS WITH FOIL VAPOR BARRIER TAPE AND VAPORSEAL ADHESIVE.
- 2) FIBERGLASS BOARD: SEAL JOINTS AND BREAKS IN FACING WITH 3 IN. WIDE TAPE TO MATCH FACING AND ADHERE WITH VAPOR SEAL ADHESIVE. APPLY 5 IN. WIDE TAPE AT CORNERS, WELD PINS ON TOP, SIDES AND BOTTOM.
11. VIBRATION ISOLATION
- A. GENERAL:
- 1) PROVIDE ISOLATION FOR EQUIPMENT, PIPING AND DUCTWORK.
- 2) INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 3) PROVIDE LEVELING DEVICES AND APPROVED RESILIENT RESTRAINING DEVICES AS REQUIRED TO LIMIT EQUIPMENT AND PIPING MOTION IN EXCESS OF 1/4 IN.
- 4) ACCEPTABLE MANUFACTURERS:
- a. MASON INDUSTRIES, INC.
- b. VIBRATION ELIMINATOR CO.
- c. KORFUND DYNAMICS CORP.
12. MOTORS:
- A. MOTORS (UNDER HVAC WORK): IN ACCORDANCE WITH NEMA, IEEE AND ANSI C50 STANDARDS:
- 1) STANDARD EFFICIENCY UNLESS OTHERWISE NOTED.
- 2) 1.15 SERVICE FACTOR.
13. EQUIPMENT
- A. ROOFTOP AIR-CONDITIONING UNIT (RTU)
- 1) GENERAL: THE UNITS SHALL BE CONVERTIBLE AIRFLOW. THE OPERATING RANGE SHALL BE BETWEEN 115°F AND 0°F IN COOLING AS STANDARD FROM THE FACTORY FOR UNITS WITH MICROPROCESSOR CONTROLS. COOLING PERFORMANCE SHALL BE RATED IN ACCORDANCE WITH ARI TESTING PROCEDURES. ALL UNITS SHALL BE FACTORY ASSEMBLED, INTERNALLY WIRED, FULLY CHARGED WITH R-410A, AND 100 PERCENT RUN TESTED TO CHECK COOLING OPERATION, FAN AND BLOWER ROTATION, AND CONTROL SEQUENCE BEFORE LEAVING THE FACTORY. WIRING INTERNAL TO THE UNIT SHALL BE COLORED AND NUMBERED FOR SIMPLIFIED IDENTIFICATION. UNITS SHALL BE ULULS LISTED AND LABELED, CLASSIFIED IN ACCORDANCE FOR CENTRAL COOLING AIR CONDITIONERS.
- 2) CASE: UNIT CASING SHALL BE CONSTRUCTED OF ZINC COATED, HEAVY GAUGE, AND GALVANIZED STEEL. EXTERIOR SURFACES SHALL BE CLEANED, PHOSPHATIZED, AND FINISHED WITH A WEATHER-RESISTANT BAKED ENAMEL FINISH. UNIT'S SURFACE SHALL BE TESTED 672 HOURS IN A SALT SPRAY TEST IN COMPLIANCE WITH ASTM B117. CABINET CONSTRUCTION SHALL ALLOW FOR ALL MAINTENANCE ON ONE SIDE OF THE UNIT. ALL EXPOSED VERTICAL PANELS AND TOP COVERS IN THE INDOOR AIR SECTION SHALL BE INSULATED WITH A CLEANABLE FOIL-FACED, FIRE-RETARDANT PERMANENT, ODORLESS GLASS FIBER MATERIAL. ALL INSULATION EDGES SHALL BE EITHER CAPTURED OR SEALED. THE UNIT'S BASE PAN SHALL HAVE NO PENETRATIONS WITHIN THE PERIMETER OF THE CURB OTHER THAN THE RAISED 1 1/8" HIGH DOWNFLOW SUPPLY/RETURN OPENINGS TO PROVIDE AN ADDED WATER INTEGRITY PRECAUTION. IF THE CONDENSATE DRAIN BACKS UP, THE BASE OF THE UNIT SHALL HAVE PROVISIONS FOR FORKLIFT AND CRANE LIFTING, WITH FORKLIFT CAPABILITIES ON THREE SIDES OF THE UNIT.
- 3) UNIT TOP: THE TOP COVER SHALL BE ONE PIECE CONSTRUCTION OR, WHERE SEAMS EXIST, IT SHALL BE DOUBLE-HEMMED AND GASKET-SEALED. THE RIBBED TOP ADDS EXTRA STRENGTH AND ENHANCES WATER REMOVAL FROM UNIT TOP.
- 4) COMPRESSORS: ALL UNITS SHALL HAVE DIRECT-DRIVE, HERMETIC, SCROLL TYPE COMPRESSORS WITH CENTRIFUGAL TYPE OIL PUMPS. MOTOR SHALL BE SUCTION GAS-COOLED AND SHALL HAVE A VOLTAGE UTILIZATION RANGE OF PLUS OR MINUS 10 PERCENT OF UNIT NAMEPLATE VOLTAGE. INTERNAL OVERLOADS SHALL BE PROVIDED WITH THE SCROLL COMPRESSORS.
- 5) REFRIGERANT CIRCUITS: SERVICE PRESSURE PORTS, AND REFRIGERANT LINE FILTER DRIERS ARE FACTORY-INSTALLED AS STANDARD. AN AREA SHALL BE PROVIDED FOR REPLACEMENT SUCTION LINE DRIERS.
- 6) EVAPORATOR AND CONDENSER COILS: INTERNALLY FINNED, 5/16" COPPER TUBES MECHANICALLY BONDED TO A CONFIGURED ALUMINUM PLATE FIN SHALL BE STANDARD. COILS SHALL BE LEAK TESTED AT THE FACTORY TO ENSURE THE PRESSURE INTEGRITY. THE EVAPORATOR COIL AND CONDENSER COIL SHALL BE LEAK TESTED TO 650 PSIG AND PRESSURE TESTED TO 450 PSIG. THE CONDENSER COIL SHALL HAVE A PATENT PENDING 1+1+1 HYBRID COIL DESIGNED WITH SLIGHT GAPS FOR EASE OF CLEANING. A REMOVABLE, REVERSIBLE, DOUBLE-SLOPED CONDENSATE DRAIN PAN WITH THROUGH THE BASE CONDENSATE DRAIN IS STANDARD.
- 7) FANS: THE OUTDOOR FAN SHALL BE DIRECT-DRIVE, STATICALLY AND DYNAMICALLY BALANCED, DRAW-THROUGH IN THE VERTICAL DISCHARGE POSITION. THE FAN MOTOR SHALL BE PERMANENTLY LUBRICATED AND SHALL HAVE BUILT-IN THERMAL OVERLOAD PROTECTION.
- 8) HINGED ACCESS DOORS: SHEET METAL HINGES ARE AVAILABLE ON THE FILTER/EVAPORATOR, SUPPLY FAN/HEAT, AND THE COMPRESSOR/CONTROL ACCESS DOORS.
- 9) LOW LEAK ECONOMIZER: THIS ACCESSORY MEETS LOW LEAK REQUIREMENTS FOR ASHRAE 90.1, IECC, AND CA TITLE 24 STANDARDS (3 CFM/SQ.FT. AT 1" WG EXTERIOR AIR, 4 CFM/SQ.FT. AT 1" WG RETURN AIR). THIS OPTION ALLOWS 100% OUTDOOR AIR SUPPLY FROM 0-100% MODULATING DAMPERS AND IS STANDARD WITH BAROMETRIC RELIEF. IT CAN BE PAIRED WITH POWERED EXHAUST FOR ADDITIONAL BUILDING PRESSURE RELIEF. AVAILABLE ON DOWNFLOW UNITS ONLY.

SYMBOLS

| Revisions | | | |
|------------|---------|------------------|----------|
| REVISION # | DATE | REVISION | APPROVED |
| - | 7/8/21 | FINAL REVIEW SET | |
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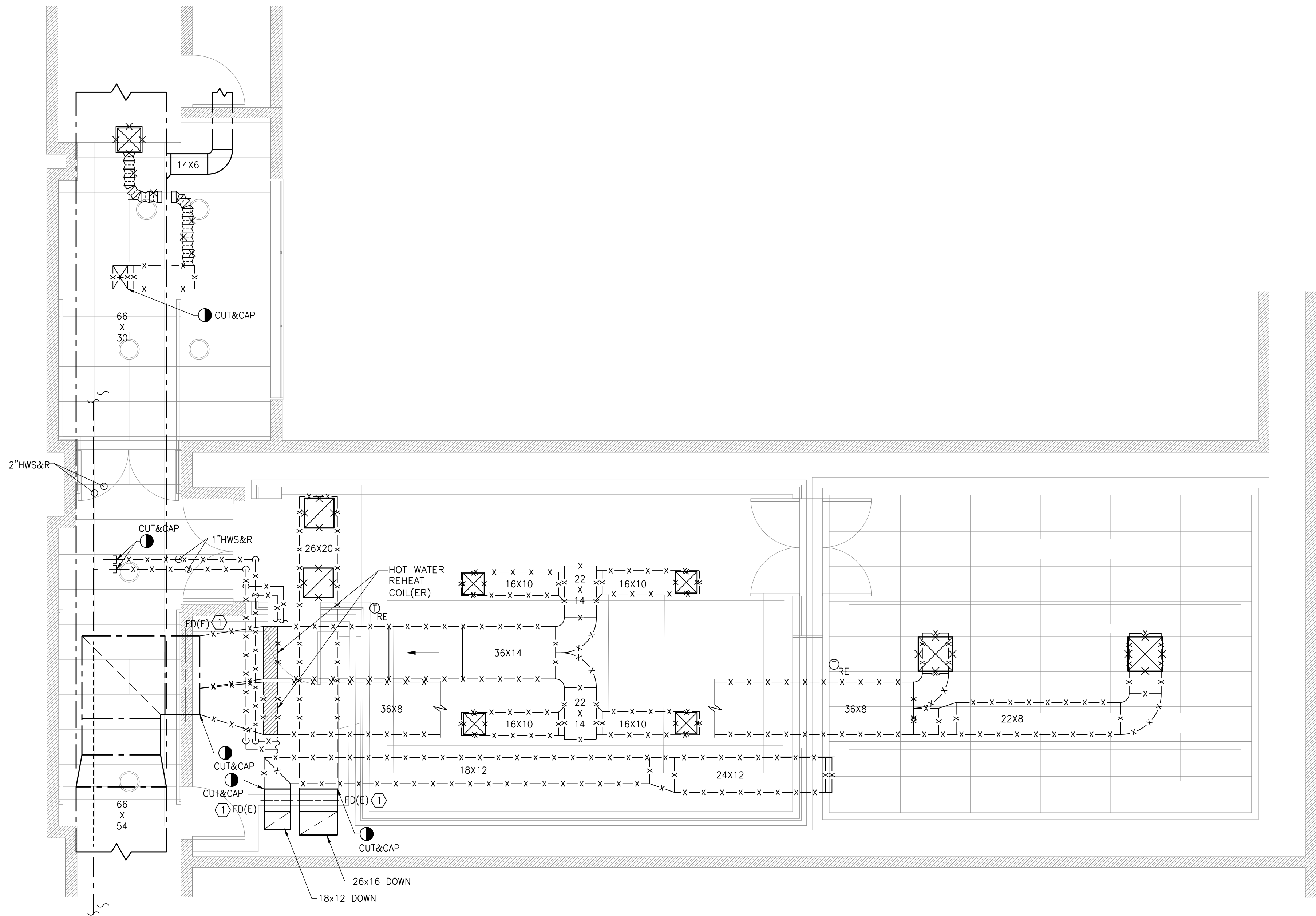


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PROJECT

Purchase College
Studio A
Renovations

| DRAWING NAME | |
|--|----------------|
| MECHANICAL SPECIFICATIONS (SHEET 1) | |
| SEAL & SIGNATURE | SCALE NONE |
| | DATE |
| | CAD FILE# |
| | DRAWING NUMBER |
| | M-002.00 |
| | SHEET |
| | 02 of 09 |



- DRAWING NOTES:
1. ALL EXISTING SUPPLY AND RETURN DUCTWORK WITH ASSOCIATED DIFFUSERS/GRILLES SHALL BE REMOVED IN ITS ENTIRETY BACK TO SHAFT/CORRIDOR WALL AS INDICATED.
 2. REMOVE ALL EXISTING THERMOSTATS AND PNEUMATIC CONTROLS IN ITS ENTIRETY.
 3. ALL EXISTING HOT WATER PIPING, HOT WATER COILS AND ASSOCIATED CONTROLS SHALL BE REMOVED IN ITS ENTIRETY. HOT WATER BRANCH LINES SHALL BE CAPPED OFF AT THE MAIN IN THE CORRIDOR.
 4. CONTRACTOR SHALL REPAIR/RESTORE FIRE-RATING OF ALL EXISTING WALLS AFFECTED BY DEMOLITION WORK. COORDINATE ALL REPAIR WORK WITH ARCHITECT.

- KEY NOTES:
- ① EXISTING FIRE DAMPER TO REMAIN, REMOVE FUSIBLE LINK AND CLOSE DAMPER CURTAIN.

SYMBOLS

| Revisions | | | |
|------------|---------|------------------|----------|
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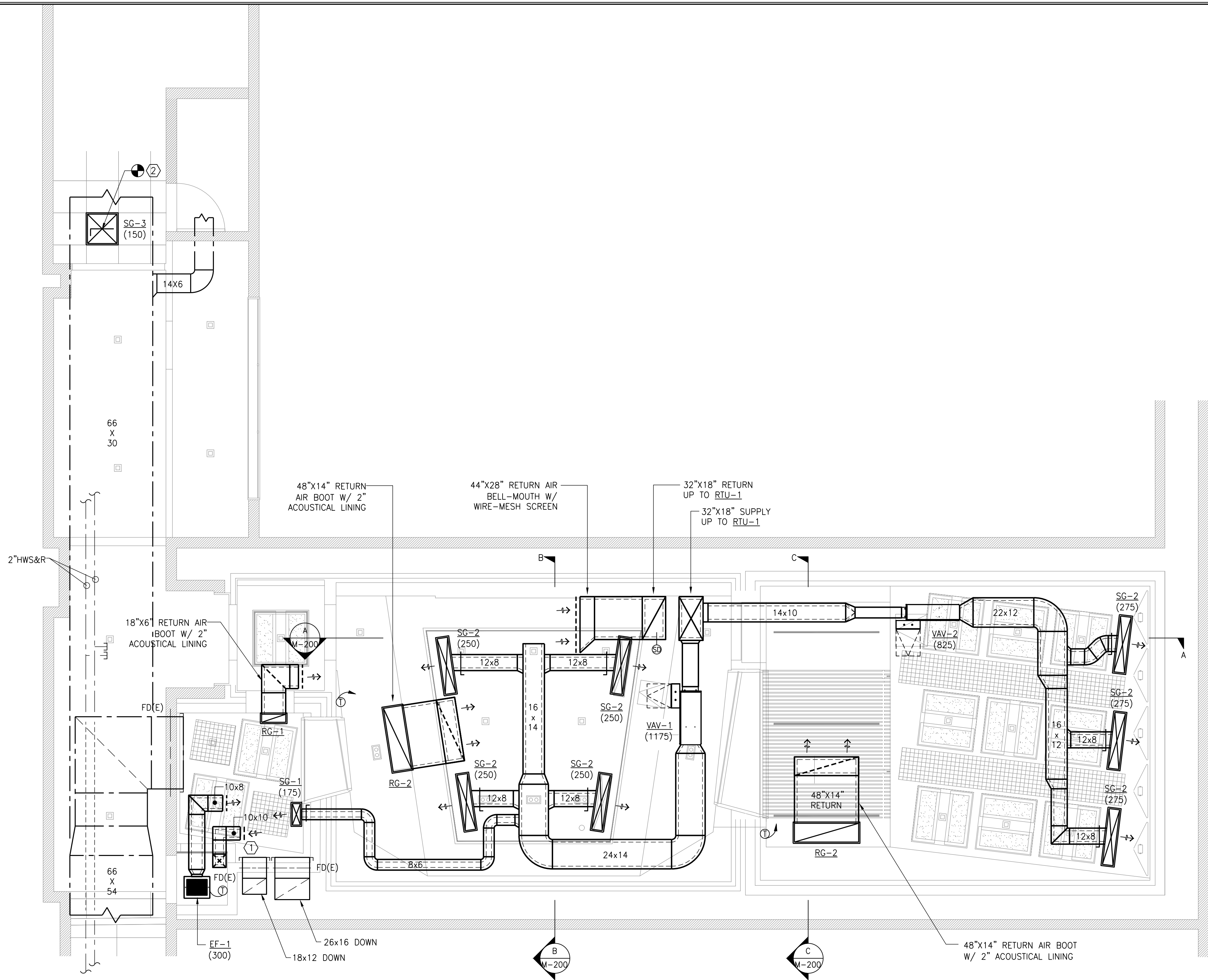
PROJECT

Purchase College
Studio A
Renovations

DRAWING NAME

MECHANICAL
DEMOLITION PLAN

| SEAL & SIGNATURE | SCALE | 1/4"=1'-0" |
|------------------|----------------|------------|
| | DATE | |
| | CAD FILE # | |
| | DRAWING NUMBER | M-100.00 |
| | SHEET | 04 of 09 |



- DRAWING NOTES:**
1. CONTRACTOR SHALL INSTALL ALL HVAC EQUIPMENT AS REQUIRED TO ALLOW FOR PROPER SERVICE ACCESS.
 2. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS. ALL SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE PROVIDED WITH MIN. 2" THICK INTERNAL ACOUSTICAL LINING, UNLESS OTHERWISE NOTED.
 3. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING ITEMS.
 4. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS CONNECTED TO RTU AND FANS. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED. PROVIDE FLEXIBLE CONNECTORS AT ALL DUCTWORK CONNECTIONS PENETRATING ACOUSTICAL CEILING.
 5. ALL DUCTWORK SHALL BE INSTALLED AT MAXIMUM HEIGHTS ALLOWABLE OR AS REQUIRED TO CLEAR NEW CEILING. DUCTWORK SHALL BE OFFSET AS REQUIRED TO AVOID CONFLICTS EVEN IF NOT SPECIFICALLY INDICATED ON PLAN.
 6. PROVIDE ALL REQUIRED BRANCH SUPPLY DUCTWORK TO SERVE NEW AIR OUTLETS IN LOCATIONS INDICATED. ALL AIR OUTLETS SUPPLY DUCT BRANCH CONNECTIONS SHALL BE PROVIDED WITH CABLE OPERATED DAMPERS.
 7. TERMINAL AIR BOX LOCATIONS SHOWN ARE DIAGRAMMATIC. CONTRACTOR TO COORDINATE EXACT BOX LOCATIONS TO AVOID CONFLICTS WITH CEILING CONSTRUCTION AND OTHER TRADES.
 8. EXACT LOCATIONS OF ALL THERMOSTATS SHALL BE AS PER ARCHITECT/ENGINEER. TYPICALLY THEY ARE LOCATED NEAR NEW LIGHT SWITCHES. REFER TO ARCHITECTURAL DWGS FOR THERMOSTAT MOUNTING HEIGHT. MECHANICAL CONTRACTOR SHALL SUBMIT THERMOSTAT LOCATIONS TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
 9. ALL OPENINGS IN FIRE WALLS/ROOF DUE TO DUCTWORK, CONDUITS, ETC. SHALL BE FIRE-STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL AS SPECIFIED IN THE ARCHITECTURAL CONTRACT DRAWINGS.
 10. ALL OPEN-ENDED DUCTWORK SHALL BE PROVIDED WITH WIRE-MESH SCREEN.
 11. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT AS REQUIRED TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.

- KEY NOTES:**
- ① TERMINATE TRANSFER DUCT IN RACK CLOSET MINIMUM 12" ABOVE FINISHED FLOOR.
 - ② BOTTOM TAP EXISTING SUPPLY AIR MAIN IN CORRIDOR TO NEW CEILING DIFFUSER, PROVIDE MANUAL VOLUME DAMPER AS REQUIRED.

SYMBOLS

| Revisions | | | |
|------------|---------|------------------|----------|
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| - | 7/8/21 | FINAL REVIEW SET | |
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PROJECT

Purchase College
Studio A
Renovations

DRAWING NAME

MECHANICAL
CONSTRUCTION PLAN

SEAL & SIGNATURE

SCALE 1/4"=1'-0"

DATE

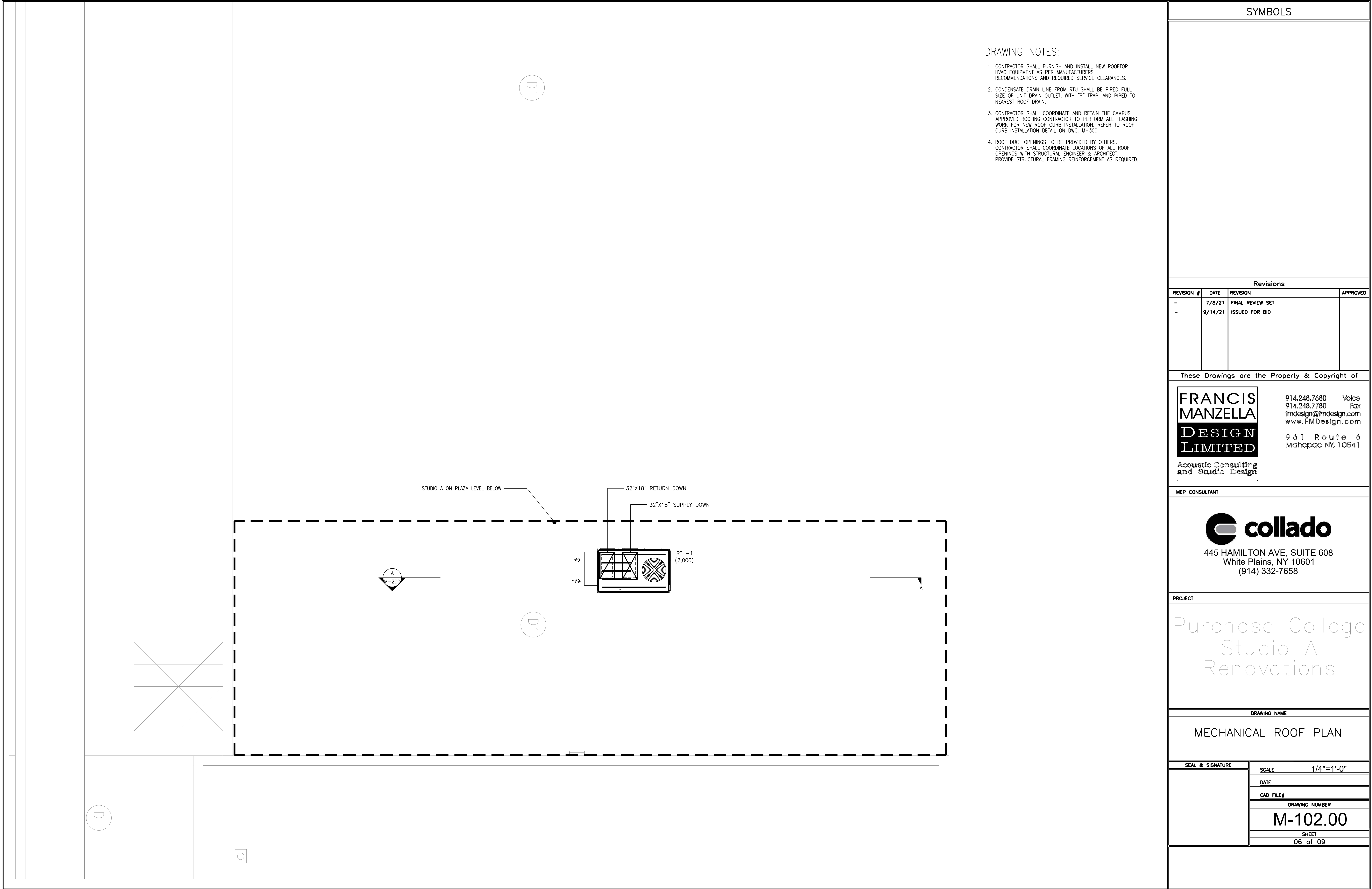
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DRAWING NUMBER

M-101.00

SHEET

05 of 09



- DRAWING NOTES:
1. CONTRACTOR SHALL FURNISH AND INSTALL NEW ROOFTOP HVAC EQUIPMENT AS PER MANUFACTURERS RECOMMENDATIONS AND REQUIRED SERVICE CLEARANCES.
 2. CONDENSATE DRAIN LINE FROM RTU SHALL BE PIPED FULL SIZE OF UNIT DRAIN OUTLET, WITH "P" TRAP, AND PIPED TO NEAREST ROOF DRAIN.
 3. CONTRACTOR SHALL COORDINATE AND RETAIN THE CAMPUS APPROVED ROOFING CONTRACTOR TO PERFORM ALL FLASHING WORK FOR NEW ROOF CURB INSTALLATION. REFER TO ROOF CURB INSTALLATION DETAIL ON DWG. M-300.
 4. ROOF DUCT OPENINGS TO BE PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL ROOF OPENINGS WITH STRUCTURAL ENGINEER & ARCHITECT. PROVIDE STRUCTURAL FRAMING REINFORCEMENT AS REQUIRED.

SYMBOLS

Revisions

| REVISION # | DATE | REVISION | APPROVED |
|------------|---------|------------------|----------|
| - | 7/8/21 | FINAL REVIEW SET | |
| - | 9/14/21 | ISSUED FOR BID | |

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PROJECT

Purchase College
Studio A
Renovations

DRAWING NAME

MECHANICAL ROOF PLAN

SEAL & SIGNATURE

SCALE 1/4"=1'-0"

DATE

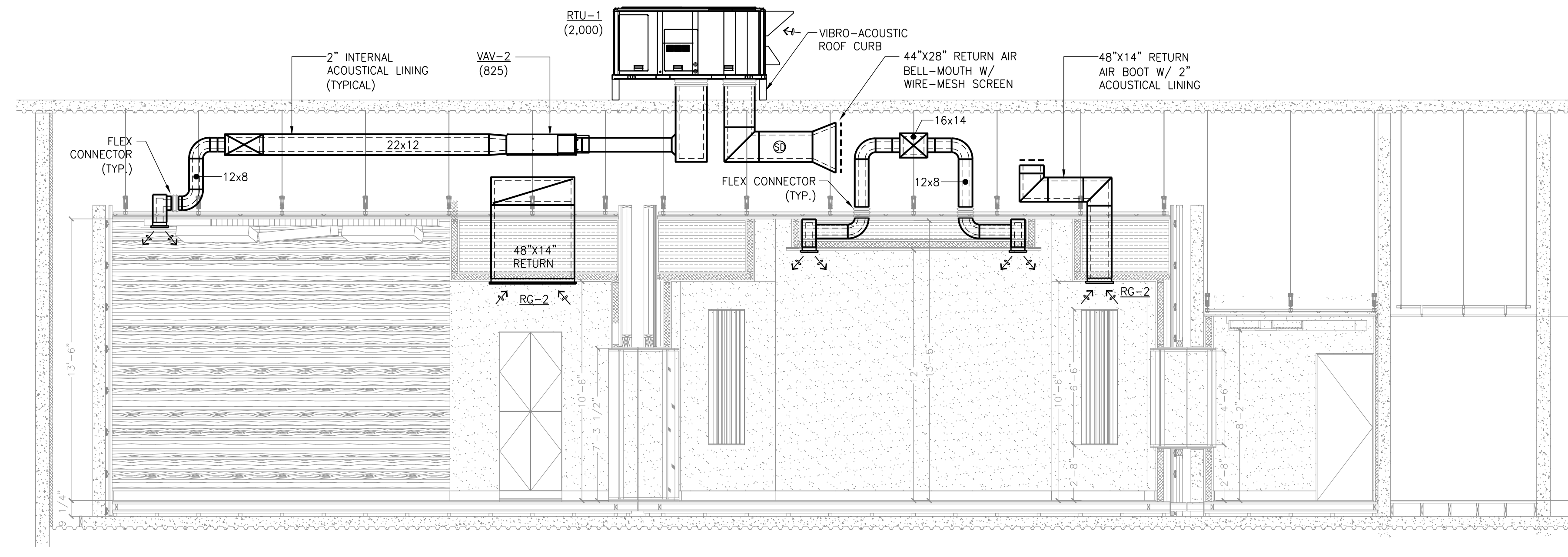
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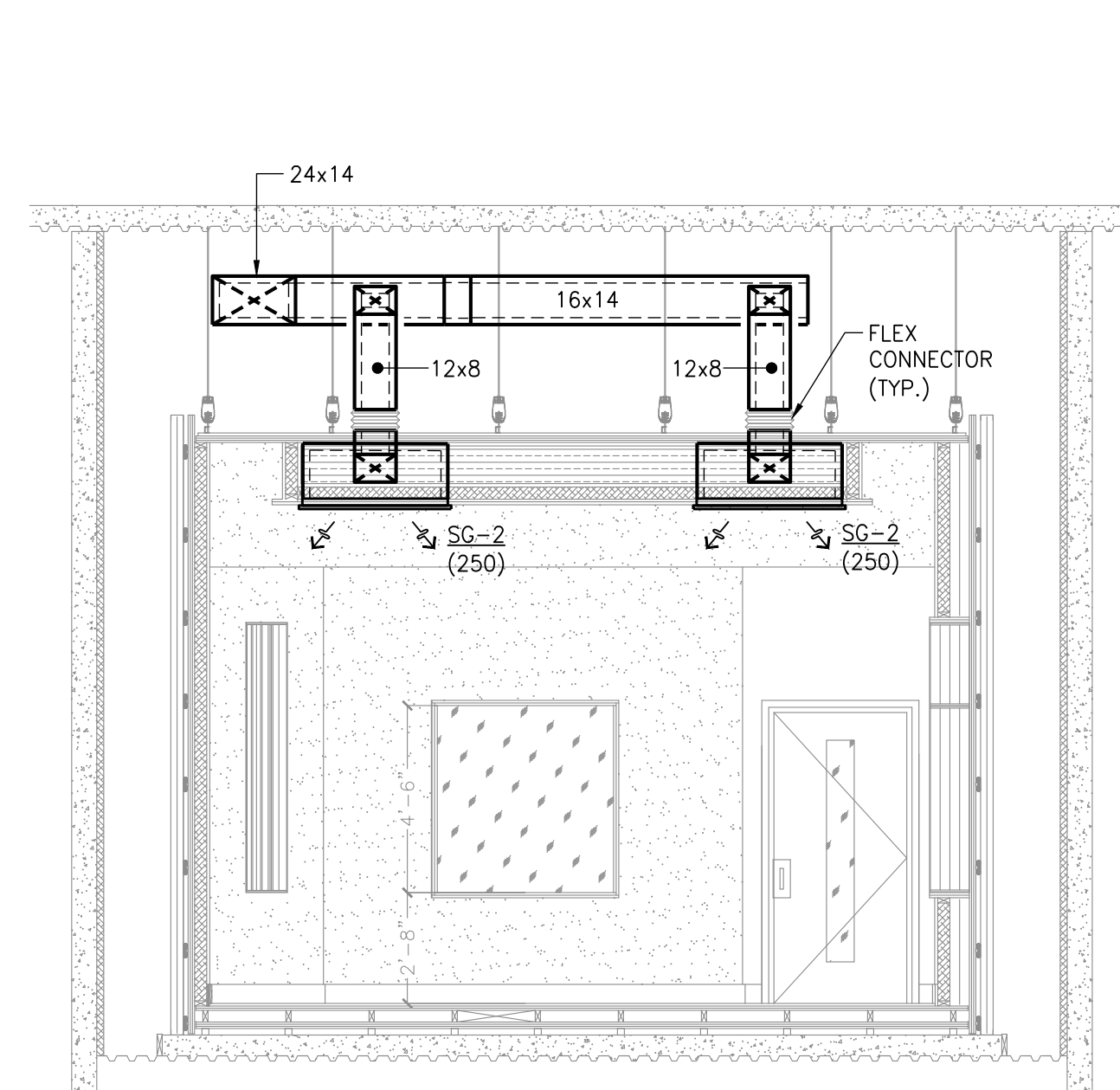
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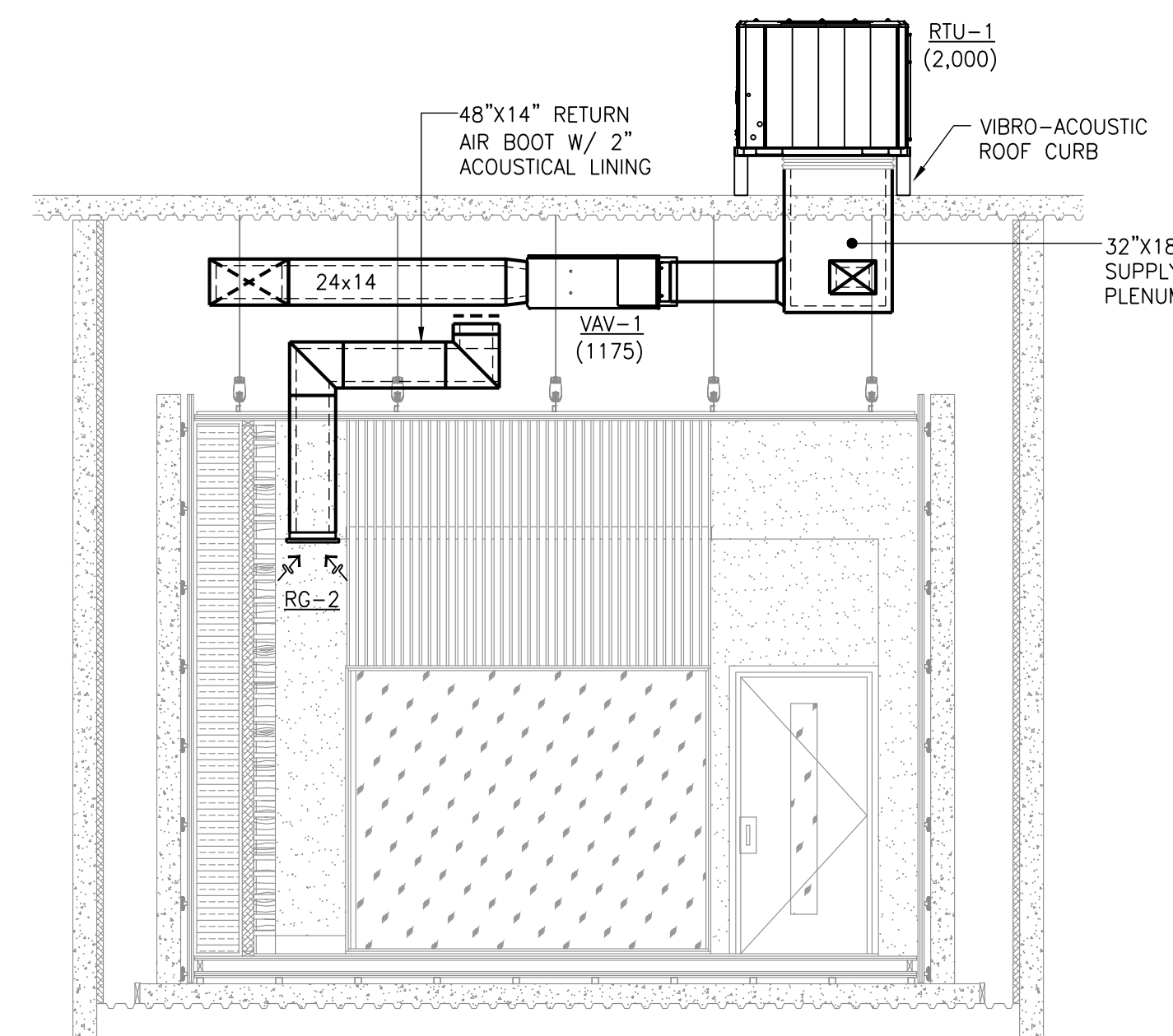
06 of 09



A MECHANICAL ELEVATION – SOUTH
SCALE: 1/4" = 1'-0"



B MECHANICAL ELEVATION – CONTROL ROOM
SCALE: 1/4" = 1'-0"



C MECHANICAL ELEVATION – LIVE ROOM
SCALE: 1/4" = 1'-0"

SYMBOLS

Revisions

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PROJECT

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07 of 09

| ROOF TOP AIR CONDITIONING UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|-----------|------------------------|-----------------|----------|----------------|-----|-----|---------------------|-----|----------|------|----------|------|----------------------|-------------------------|--------------|---------------------------|----------|----|-----------------|----|----------------------|----------|------------|------|---------------|-----------------|----------------------|-------|--------------------|---------------------|-----------|
| TAG | LOCATION | SERVICE | MIN. OUTSIDE AIR (CFM) | SUPPLY FAN DATA | | | | | COOLING PERFORMANCE | | | | | | HEATING PERFORMANCE | | | | | | ELECTRICAL DATA | | | | EFFICIENCY | | WEIGHT (LBS.) | UNIT DIMENSIONS | MANUFACTURER / MODEL | NOTES | | | |
| | | | | CFM | FAN QTY. | ESP (IN. W.C.) | RPM | BHP | COIL SIZE | | EAT (°F) | | LAT (°F) | | TOTAL CAPACITY (MBH) | SENSIBLE CAPACITY (MBH) | HEATING TYPE | OUTDOOR AMBIENT TEMP (°F) | EAT (°F) | | LAT (°F) | | TOTAL CAPACITY (MBH) | V/PH/HZ | FLA | MCA | | | | | MOP | EER | IEER/SEER |
| | | | | | | | | | ROWS | FPI | DB | WB | DB | WB | | | | | DB | WB | DB | WB | | | | | | | | | | | |
| RTU-1 | ROOF | SEE PLANS | 300 | 2,000 | 1 | 0.75 | — | — | — | — | 80.0 | 67.0 | 57.2 | 57.1 | 58.9 | 46.9 | ELECTRIC | 13.0 | 60.0 | — | 85.0 | — | 30.5 | 208/3/60 | — | 27.0 | 40.0 | 13.0 | 16.4 | 1,100 | 89"L x 53"W x 41"H | TRANE / WHC060H3ROA | 1-9 |
| NOTES: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. CONTRACTOR TO COORDINATE UNIT CONFIGURATIONS WITH FIELD CONDITIONS. MAINTAIN ALL SERVICE CLEARANCES AS REQUIRED. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. UNIT SHALL BE CONFIGURED WITH BOTTOM SUPPLY, BOTTOM RETURN CONNECTIONS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. PROVIDE FACTORY CONTROLS WITH VAV DISCHARGE AIR CONTROL, STATIC PRESSURE CONTROL, VARIABLE SPEED DRIVE AND ENTHALPY ECONOMIZER CONTROL. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. PROVIDE WITH FACTORY DISCONNECT SWITCH AND GFI CONVENIENCE OUTLET TO BE FIELD WIRED. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. PROVIDE WITH VIBRO-ACOUSTIC ROOF CURB, SIMILAR TO THYBAR MODEL "VIBRO-CURB III", WITH MIN. 2" DEFLECTION. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. PROVIDE SINGLE-POINT ELECTRICAL CONNECTION TO UNIT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. PROVIDE WITH AIR FILTERS RATED FOR 4" THICK, MERV-13. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. PROVIDE WEATHER-HOOD ON INTAKE/RELIEF OPENINGS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. PROVIDE BAROMETRIC RELIEF HOOD. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. PROVIDE BMS COMMUNICATION CARD. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Acoustics | | | | | | | | |
|------------------|-------|--------|--------|--------|-------|-------|-------|-------|
| Sound Path | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Ducted Discharge | 80 dB | 84 dB | 71 dB | 68 dB | 65 dB | 62 dB | 63 dB | 55 dB |
| Ducted Inlet | 75 dB | 73 dB | 62 dB | 59 dB | 57 dB | 53 dB | 51 dB | 44 dB |
| Outdoor Noise | 90 dB | 90 dB | 85 dB | 85 dB | 83 dB | 79 dB | 74 dB | 68 dB |

| DIFFUSER, GRILLE & REGISTER SCHEDULE | | | | | | | | | | | |
|---|---------|--------------|-----------|--------------|-----------------|-----------------------------------|----------|---------|---------------------|----------------------|-------|
| TAG | SERVICE | CEILING TYPE | CFM RANGE | NO. OF SLOTS | NECK SIZE (IN.) | FACE OVERALL DIMENSIONS WXL (IN.) | MATERIAL | MAX P.D | NOISE CRITERIA (NC) | MANUFACTURER / MODEL | NOTES |
| SG-1 | SUPPLY | SEE RCP | 0-175 | - | 16"x6" | 18"x8" | ALUMINUM | 0.01 | <20 | TITUS / CT-580 | 1-4 |
| SG-2 | SUPPLY | SEE RCP | 0-700 | - | 42"x8" | 44"x10" | ALUMINUM | 0.01 | <20 | TITUS / CT-580 | 1-4 |
| SG-3 | SUPPLY | SEE RCP | 0-300 | - | 22"x22" | 24"x24" | ALUMINUM | 0.03 | <20 | TITUS / 250-AA | 1-4 |
| RG-1 | RETURN | SEE RCP | 0-200 | - | 16"x6" | 18"x8" | STEEL | 0.02 | <20 | TITUS / 300RL | 1-4 |
| RG-2 | RETURN | SEE RCP | 0-1500 | - | 48"x14" | 50"x16" | STEEL | 0.01 | <20 | TITUS / 300RL | 1-4 |
| NOTES: | | | | | | | | | | | |
| 1. DIFFUSERS SHALL BE SUITABLE FOR THE TYPE OF CEILING CONSTRUCTION BEING INSTALLED IN. | | | | | | | | | | | |
| 2. COORDINATE BORDER TYPES WITH CEILING/WALL CONSTRUCTION. | | | | | | | | | | | |
| 3. PROVIDE CABLE-OPERATED DAMPERS FOR DIFFUSERS IN INACCESSIBLE CEILINGS. | | | | | | | | | | | |
| 4. COORDINATE COLOR AND FINISH WITH ARCHITECT. | | | | | | | | | | | |

| VARIABLE AIR VOLUME (VAV) BOX SCHEDULE | | | | | | | | | | | |
|---|------|--------------------|---------|---------|------------------------|------------|------------------|-----------------------------|-------------------------------|------------------------|-------|
| TAG | SIZE | CAPACITY RANGE CFM | MIN CFM | MAX CFM | MINIMUM INLET PRESSURE | CONTROLLER | SOUND ATTENUATOR | RADIANT SOUND PRESSURE (NC) | DISCHARGE SOUND PRESSURE (NC) | MANUFACTURER AND MODEL | NOTES |
| VAV-1 | 12"ø | 300-1175 | 170 | 2,000 | 1" W.C. | DDC | YES | 20 | 24 | TITUS / DESV | 1-8 |
| VAV-2 | 10"ø | 210-825 | 130 | 1,400 | 1" W.C. | DDC | YES | 22 | 25 | TITUS / DESV | 1-8 |
| NOTES: | | | | | | | | | | | |
| 1. REFER TO PLANS FOR ACTUAL DESIGN AIRFLOW VALUES. | | | | | | | | | | | |
| 2. ALL TERMINAL BOXES TO BE DDC. | | | | | | | | | | | |
| 3. CONTRACTOR TO COORDINATE UNIT CONFIGURATIONS WITH FIELD CONDITIONS. MAINTAIN ALL SERVICE CLEARANCES AS REQUIRED. | | | | | | | | | | | |
| 4. PROVIDE WALL-MOUNTED TEMPERATURE CONTROLLER FOR EACH VAV BOX. | | | | | | | | | | | |
| 5. PROVIDE 1" ULTRALOC LINER FOR ALL VAV'S. | | | | | | | | | | | |
| 6. PROVIDE FACTORY MOUNTED CONTROLS. | | | | | | | | | | | |
| 7. PROVIDE TOGGLE DISCONNECT SWITCH. | | | | | | | | | | | |
| 8. PROVIDE MULTI-POINT CENTER AVERAGING INLET VELOCITY SENSOR. | | | | | | | | | | | |

| EXHAUST FAN SCHEDULE | | | | | | | | | | | | | | |
|--|-------------|-------------|-----|-----------------|---------|-----------------|-----------------|-------|-------|---------|-------------------|--------|------------------------|--|
| TAG | LOCATION | AREA SERVED | CFM | ESP (IN. WC) | FAN RPM | TYPE | ELECTRICAL DATA | | | | INLET dBA (dB) | WEIGHT | MANUFACTURER / MODEL | NOTES |
| | | | | | | | VOLTAGE | PHASE | WATTS | FLA (A) | | | | |
| EF-1 | RACK CLOSET | RACK CLOSET | 300 | 0.3 | 935 | CEILING-MOUNTED | 115 | 1 | 43.0 | 3.4 | 47 | 32 | GREENHECK / SP-A510-VG | CONTROLLED VIA WALL-MOUNTED THERMOSTAT |
| NOTES: | | | | | | | | | | | | | | |
| 1. PROVIDE EC MOTOR WITH MOUNTED POTENTIOMETER DIAL. | | | | | | | | | | | | | | |
| 2. PROVIDE FACTORY DISCONNECT SWITCH. | | | | | | | | | | | | | | |
| 3. PROVIDE VIBRATION ISOLATION KIT AND MOUNTING ACCESSORIES. | | | | | | | | | | | | | | |

SYMBOLS

Revisions

| REVISION # | DATE | REVISION | APPROVED |
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PROJECT

Purchase College
Studio A
Renovations

DRAWING NAME

MECHANICAL SCHEDULES

SEAL & SIGNATURE

SCALE NONE

DATE










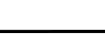
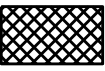


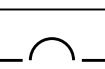


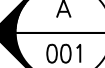
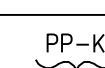

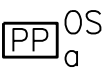



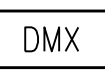
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








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| SYMBOL LIST | |
|---|---|
| ELECTRICAL AND IT DEVICES | |
|  | DUPLEX RECEPTACLE RATED AT 20–AMPS, 120 VOLTS. |
|  | ISOLATED GROUND DUPLEX RECEPTACLE RATED AT 20–AMPS, 120 VOLTS IN ONE 4"x4" BOX., MANUFACTURER: PASS AND SEYMOUR MODEL: IGS362 |
|  | ISOLATED GROUND L5–20 TWISTLOCK RECEPTACLE MOUNTED OVERHEAD IN CEILING. MANUFACTURER: PASS AND SEYMOUR MODEL: IGL520R |
|  | ISOLATED GROUND DOUBLE DUPLEX RECEPTACLE RATED AT 20 AMPS, 120 VOLTS IN ONE 4"x4" BOX. MANUFACTURER: PASS AND SEYMOUR MODEL: IGS362 |
|  | RECESSED FLUSH FLOOR BOX. REPLACE INCLUDED RECEPTACLE WITH DUPLEX ISOLATED GROUND RECEPTACLE. MANUFACTURER: PASS AND SEYMOUR FLOOR BOX MODEL: PS862TRTAL IG RECEPTACLE MODEL: IGS362 |
|  | CEILING MOUNTED JUNCTION BOX (J–BOX) WITH HOMERUN CIRCUIT AND FLEXIBLE CONNECTION TO EQUIPMENT. USE SEALTITE FOR OUTDOOR CONNECTIONS. |
|  | WALL MOUNTED JUNCTION BOX (J–BOX) WITH HOMERUN CIRCUIT AND FLEXIBLE CONNECTION TO EQUIPMENT. USE SEALTITE FOR OUTDOOR CONNECTIONS. |
|  | FLUSH FLOOR MOUNTED JUNCTION BOX FOR AV. |
|  | VAV DAMPER WITH 120V, 20AMP, SINGLE POLE TOGGLE |
| ELECTRICAL DISTRIBUTION | |
|  | CONDUIT |
|  | PULL BOX |
|  | FUSED DISCONNECT SWITCH. FUSE TO BE EQUAL TO OR LESS THAN THE WIRING AMPACITY. |
|  | UNFUSED DISCONNECT SWITCH; SWITCH SIZE TO BE GREATER THAN OR EQUAL TO OVER CURRENT PROTECTION. U.O.N. |
|  | MOTOR, NUMBER INDICATES HORSEPOWER RATING |
|  | CIRCUIT BREAKER |
|  | TRANSFORMER |
|  | SECTION A |
|  | HOMERUN NOTATION |
| LIGHTING CONTROLS BASIS OF DESIGN: ACUITY CONTROLS ALTERNATE ACCEPTABLE MANUFACTURERS: WATTSTOPPER OR DOUGLAS LIGHTING CONTROLS | |
|  | CEILING–MOUNTED MOTION SENSOR. REFER TO E–300 FOR LIGHTING CONTROL TYPICAL WIRING DIAGRAM MODEL: nCM PDT 9 RUB LOWERCASE LETTER INDICATES LIGHTING FIXTURES CONTROLLED |
|  | POWER PACK. REFER TO E–300 FOR LIGHTING CONTROL TYPICAL WIRING DIAGRAM. 'VS' INDICATES NON–DIMMING VACANCY–TYPE MODEL (nPP16 SA) 'VSD' INDICATES 0–10V DIMMING VACANCY–TYPE MODEL (nPP16 D SA) 'MLV' INDICATES MAGNETIC LOW VOLTAGE DIMMING MODEL (nSP5 PCD MLV) 'ELV' INDICATES ELECTRONIC LOW VOLTAGE DIMMING MODEL (nSP5 PCD ELV 120) *MLV' AND 'ELV' POWER PACKS SHALL BE PROGRAMMED FOR VACANCY–TYPE OPERATION. LOWERCASE LETTER INDICATES LIGHTING FIXTURES CONTROLLED. |
|  | WALL SWITCH. REFER TO E–300 FOR LIGHTING CONTROL TYPICAL WIRING DIAGRAM. STANDARD MODEL: nPDDMA 'D' INDICATES SINGLE–POLE DIMMING MODEL (nPDDMA DX WH) '2PD' INDICATES TWO–POLE DIMMING MODEL (nPDDMA 2P DX WH) '4PD' INDICATES FOUR–POLE DIMMING MODEL (nPDDMA 4P DX WH) LOWERCASE LETTER INDICATES LIGHTING FIXTURES CONTROLLED. |
|  | COMBINATION WALL VACANCY SENSOR AND NON–DIMMING SWITCH. REFER TO E–300 FOR LIGHTING CONTROL TYPICAL WIRING DIAGRAM. MODEL: WSX PDT SA WH LOWERCASE LETTER INDICATES LIGHTING FIXTURES CONTROLLED. |
|  | COMBINATION WALL VACANCY SENSOR AND DIMMING SWITCH. REFER TO E–300 FOR LIGHTING CONTROL TYPICAL WIRING DIAGRAM. MODEL: WSX PDT D SA WH LOWERCASE LETTER INDICATES LIGHTING FIXTURES CONTROLLED. |
|  | DMX LIGHTING CONTROLLER. REFER TO E–301 FOR DMX LIGHTING CONTROL WIRING DIAGRAM. MODEL: EZSOLO MVOLT WH |

| ABBREVIATIONS | |
|--|--------------------------|
|  | "AT" OR "EACH AT" |
| A | AMPERE |
| AC | ABOVE COUNTER |
| AF | AMPERE FRAME |
| AFF | ABOVE FINISHED FLOOR |
| AL | ALUMINUM |
| AT | AMPERE TRIP |
| AWG | AMERICAN WIRE GAUGE |
| C | CONDUIT |
| °C | DEGREE CELSIUS |
| CB | CIRCUIT BREAKER |
| CKT | CIRCUIT |
| CLG | CEILING |
| CLOS | CLOSET |
| COMM | COMMUNICATION |
| CONT | CONTINUATION |
| CT | CURRENT TRANSFORMER |
| CU | COPPER |
| DB | DECIBEL |
| DEG | DEGREE |
| DN | DOWN |
| DP | DISTRIBUTION PANELBOARD |
| DWG | DRAWING |
| EA | EACH |
| EC | ELECTRICAL CONTRACTOR |
| °F | DEGREE FAHRENHEIT |
| FDS | FUSED DISCONNECT SWITCH |
| FIXT | FIXTURE |
| FL | FLOOR |
| FT | FEET OR FOOT |
| G | GROUND |
| GFI | GROUND FAULT INTERRUPTER |
| HP | HORSEPOWER |
| HV | HIGH VOLTAGE |
| HZ | HERTZ |
| INST | INSTANTANEOUS |
| JB | JUNCTION BOX |
| KV | KILOVOLT |
| KVA | KILOVOLT AMPERE |
| KW | KILOWATT |
| LTG | LIGHTING |
| LV | LOW VOLTAGE |
| MAX | MAXIMUM |
| MCB | MAIN CIRCUIT BREAKER |
| MCM | THOUSAND CIRCULAR MILS |
| MIN | MINIMUM |
| MLO | MAIN LUGS ONLY |
| N | NEUTRAL |
| NTS | NOT TO SCALE |
| PB | PULLBOX |
| Ø | PHASE |
| PWR | POWER |
| RECEPT | RECEPTACLE |
| REQ | REQUIRED |
| RM | ROOM |
| SECT | SECTION |
| SP | SINGLE POLE |
| SPEC | SPECIFICATION |
| SW | SWITCH |
| SYS | SYSTEMS |
| TBD | TO BE DETERMINED |
| TD | TIME DELAY |
| TEL | TELEPHONE |
| TEMP | TEMPERATURE |
| TV | TELEVISION |
| TYP | TYPICAL |
| UON | UNLESS OTHERWISE NOTED |
| V | VOLT OR VOLTAGE |
| VA | VOLT AMPERE |
| W | WATT |
| WP | WEATHERPROOF |

| LIGHTING FIXTURE SCHEDULE | | | | | | | | | |
|---|-------------|---|------------------------|---|-----------|-------|----------|---------|--|
| FIXTURE SYMBOL | FIXTURE TAG | FIXTURE DESCRIPTION | MANUFACTURER | MODEL NUMBER | LAMP TYPE | VOLTS | WATTS | DIMMING | |
|  | A | RECESSED DOWNLIGHT FIXTURE | WAC LIGHTING | HOUSING: HR–3LED–H17A TRIM: R3ASAT–F830–HZWT | LED | UNV | 15.5 | 0–10V | |
|  | B | RECESSED MULTI–POINT SPOTLIGHT FIXTURE | WAC LIGHTING | HOUSING: MT–4LD211NE–F–930–BK TRIM: MT–4LD216T–WT | LED | UNV | 46 | ELV | |
|  | C | RECESSED MONOPOINT SPOTLIGHT FIXTURE | WAC LIGHTING | MQ–1014F–930–BK | LED | 120V | 14 | ELV | |
|  | D | WALL WASH LIGHT FIXTURE | CHAUVET DJ | SLIMPAR T6BT | LED | UNV | 15 | DMX | |
|  | S1 | LED TAPE LIGHTING FIXTURE | PLT | 2835–60–IP65–WW2450NHC 3K 24V 90CRI *MOUNTED IN KLUS LIPOD CHANNEL WITH LIGER–22 FROSTED COVER AND MAGNITUDE M150L24DC–AR DIMMABLE LED DRIVER | LED | 120V | 3.5W/FT. | NONE | |
|  | S2 | LED TAPE LIGHTING FIXTURE | PLT | 2835–60–IP65–WW2450NHC 3K 24V 90CRI *WITH MAGNITUDE M150L24DC–AR DIMMABLE LED DRIVER | LED | 120V | 3.5W/FT. | MLV | |
|  | S3 | LED TAPE LIGHTING FIXTURE | PLT | 5050–60–IP65–RGB2450 NANO RGB 24V 90CRI LED TAPE LIGHT WITH MEAN WELL LRS–350–24 SE SERIES POWER SUPPLY, SUPERBRIGHTLEDSD.COM E2D–RGBW3–WM WALL SWITCH AND E2D–4C8A CONTROLLER. REFER TO E–300 FOR S3 FIXTURE CONTROLS WIRING DIAGRAM. | LED | 120 | 4.5W/FT. | RGB | |
|  | S4 | LED TAPE LIGHTING FIXTURE | PLT | 2835–60–IP65–WW2450NHC 3K 24V 90CRI *MOUNTED IN KLUS LIPOD CHANNEL WITH LIGER–22 FROSTED COVER AND MAGNITUDE M150L24DC–AR DIMMABLE LED DRIVER | LED | 120V | 3.5W/FT. | MLV | |
|  | -- | EMERGENCY LIGHTING FIXTURE | THE LIGHTING SOURCE | MINI–SQ–L–W–SDT NOTE: DEDICATED EMERGENCY LIGHT. CONNECT TO UNSWITCHED LIGHTING CIRCUIT SERVING SPACE. | LED | UNV | 6 | NONE | |
|  | -- | CORRIDOR EMERGENCY DOWNLIGHT FIXTURE | THE EXIT LIGHT CO | EL–R06 W/B6V4A BATTERY NOTE: DEDICATED EMERGENCY LIGHT. CONNECT TO UNSWITCHED LIGHTING CIRCUIT SERVING SPACE. | HALOGEN | UNV | 8 | NONE | |
|  | -- | WALL–MOUNTED EDGE–LIT EXIT SIGN FIXTURE | THE EXIT LIGHT COMPANY | ELSM–R | LED | UNV | 5 | NONE | |

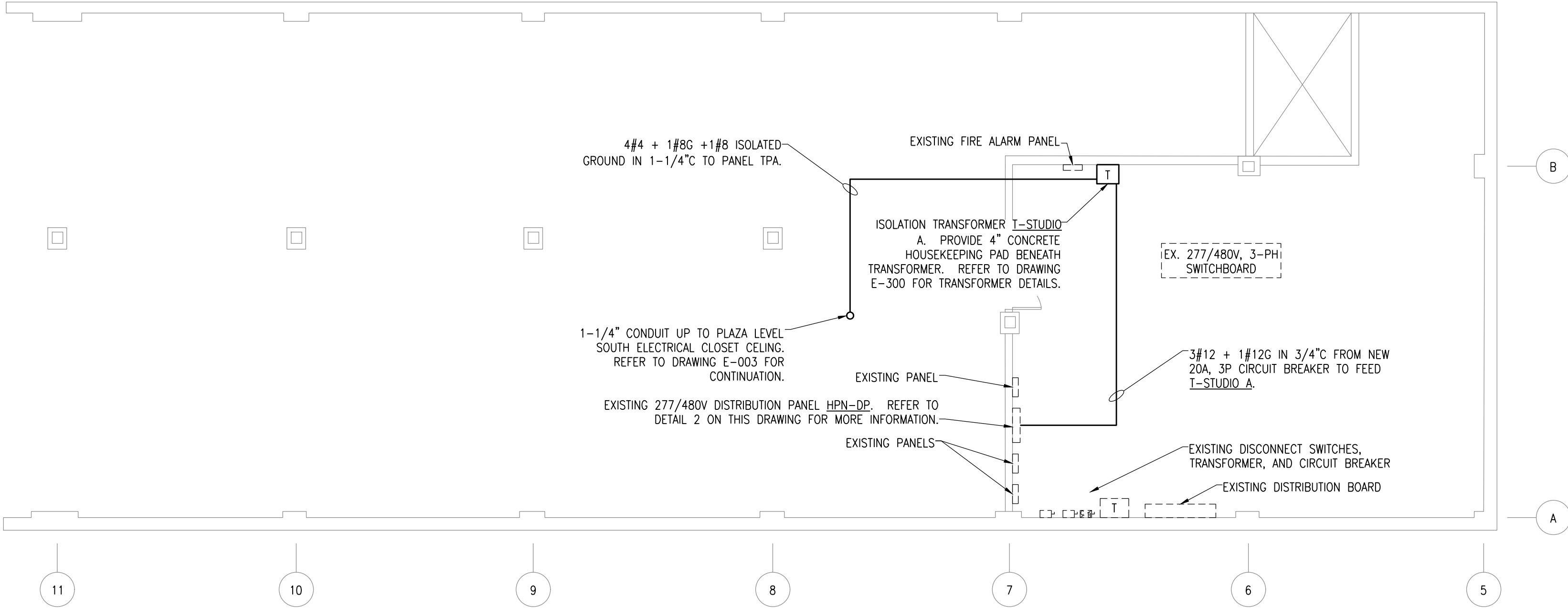
| ELECTRICAL DRAWING LIST | |
|-------------------------|--|
| E–001 | ELECTRICAL SYMBOL LIST, ABBREVIATIONS, LIGHTING SCHEDULE, ENERGY CODE COMPLIANCE TABLE, GENERAL NOTES AND DRAWING LIST |
| E–002 | ELECTRICAL SUB–BASEMENT PLAN |
| E–003 | ELECTRICAL PLAZA LEVEL PLAN |
| E–100 | ELECTRICAL DEMOLITION PLAN |
| E–101 | ELECTRICAL POWER PLAN |
| E–102 | ELECTRICAL LIGHTING PLAN |
| E–103 | ELECTRICAL ROOF PLAN |
| E–200 | ELECTRICAL PANEL SCHEDULES |
| E–300 | ELECTRICAL DETAILS (SHEET 1) |
| E–301 | ELECTRICAL DETAILS (SHEET 2) |
| E–302 | ELECTRICAL DETAILS (SHEET 3) |
| E–400 | ELECTRICAL SPECIFICATIONS |

ELECTRICAL GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWING IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.
- HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS ARE NOT PERMITTED.
- PROVIDE PULLBOXES AS INDICATED, REQUIRED BY CODE AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES.
- COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE.
- CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT; MINIMUM 18 IN. IN LENGTH AND 50% SLACK. DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.
- COORDINATE ALL EXPOSED CONDUIT RUNS WITH ARCHITECT PRIOR TO EXPOSED CONDUIT INSTALLATION.
- WIRE COLOR CODING: AS PER CODE. WHERE COLOR–CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.
- SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK) OR MACHINE SCREWS (METAL). NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART.
- ALL LIGHT FIXTURES AND INSTRUMENTS THAT ARE REMOVED SHOULD BE CAREFULLY DISPOSED OF. COORDINATE REMOVAL ALL EQUIPMENT WITH FACILITIES MANAGER.
- VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
- LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH ARCHITECT AND INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
- POWER INTERRUPTIONS AND CORE DRILLING ONLY PERMITTED AS APPROVED BY FACILITIES MANAGER.
- ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE RATED NEMA–3R.
- PRIOR TO CORING FOR CONDUIT PENETRATIONS, XRAY SLAB AND SUBMIT TO FACILITIES MANAGER FOR APPROVAL.
- USE MC CABLE WHEREVER ELECTRICAL CONDUITS CROSS OVER ISOLATED CEILING OR WALLS.

| NYS ECC 2020 COMPLIANCE (LIGHTING) | | | | | | |
|------------------------------------|--|---------|---------------|-----------------|-------------------------|--|
| ROOM | ROOM AREA (SQ. FT.) | WATTAGE | WATTS/SQ. FT. | ALLOWABLE WATTS | ALLOWABLE WATTS/SQ. FT. | LIGHTING CONTROLS |
| SOUND LOCK | 37 | 61 | 1.65 | 24.5 | 0.66 | MANUAL–ON CONTROLS (VACANCY SENSORS WITH MANUAL OVERRIDE SWITCHES) |
| RECORDING BOOTH | 62 | 62 | 1.00 | 26 | 0.42 | MANUAL–ON CONTROLS (VACANCY SENSORS WITH MANUAL OVERRIDE SWITCHES) |
| IT CLOSET | 10 | 10.5 | 1.05 | 4.6 | 0.46 | MANUAL–ON CONTROLS (VACANCY SENSORS WITH MANUAL OVERRIDE SWITCHES) |
| CONTROL ROOM | 400 | 368.5 | 0.92 | 532 | 1.33 | MANUAL–ON CONTROLS (VACANCY SENSORS WITH MANUAL OVERRIDE SWITCHES) |
| LIVE ROOM | CONNECTED LIGHTING POWER IN THIS ROOM IS EXEMPT AS PER SECTION C405.3.1. | | | | | |
| TOTAL: | | 502 | -- | 587.1 | -- | -- |

| SYMBOLS | | | |
|--|---------|--|----------|
| | | | |
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| | | | |
| Revisions | | | |
| REVISION # | DATE | REVISION | APPROVED |
| - | 7/8/21 | FINAL REVIEW SET | |
| - | 9/14/21 | ISSUED FOR BID | |
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| MEP CONSULTANT | | | |
| <div><div></div><div>collado</div></div> <div>445 HAMILTON AVE, SUITE 608 White Plains, NY 10601 (914) 332-7658</div> | | | |
| PROJECT | | | |
| Purchase College Studio A Renovations | | | |
| DRAWING NAME | | | |
| ELECTRICAL SYMBOLS LIST, ABBREVIATIONS, LIGHTING SCHEDULE, ENERGY CODE COMPLIANCE TABLE, GENERAL NOTES AND DRAWING LIST | | | |
| SEAL & SIGNATURE | | SCALE N/A | |
| | | DATE | |
| | | CAD FILE# | |
| | | DRAWING NUMBER | |
| | | E-001.00 | |
| | | SHEET | |
| | | 1 of 12 | |
| | | | |



1 ELECTRICAL SUB-BASEMENT PLAN

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



2 DISTRIBUTION PANEL HPN-DP DETAIL

SCALE: N/A

SYMBOLS

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Revisions

| REVISION # | DATE | REVISION | APPROVED |
|------------|---------|------------------|----------|
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PROJECT

Purchase College
Studio A
Renovations

DRAWING NAME

ELECTRICAL SUB-BASEMENT PLAN

SEAL & SIGNATURE

SCALE AS NOTED

DATE

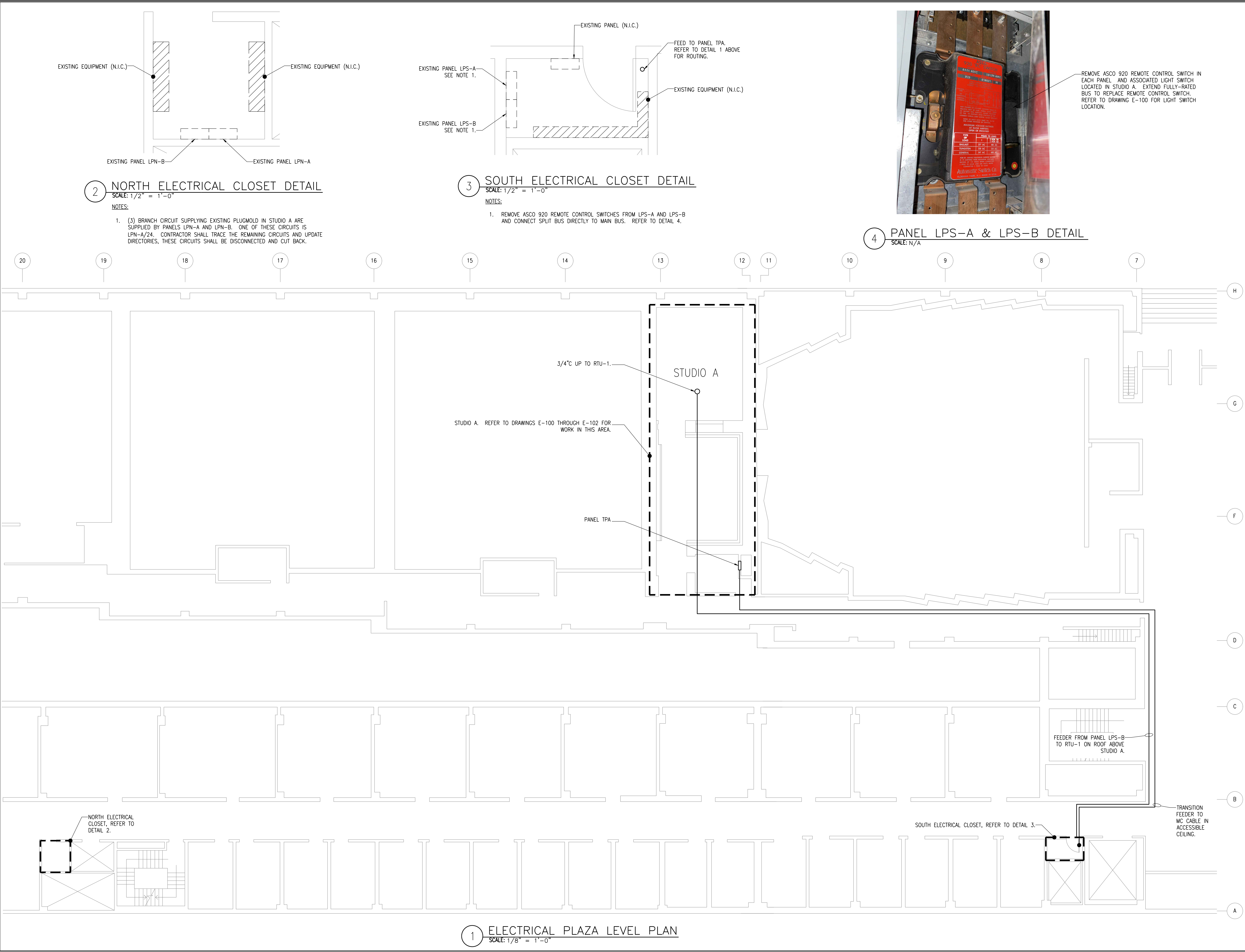
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DRAWING NUMBER

E-002.00

SHEET

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SYMBOLS

Revisions

| REVISION # | DATE | REVISION | APPROVED |
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PROJECT

Purchase College Studio A Renovations

DRAWING NAME

ELECTRICAL PLAZA LEVEL PLAN

SEAL & SIGNATURE

SCALE AS NOTED

DATE

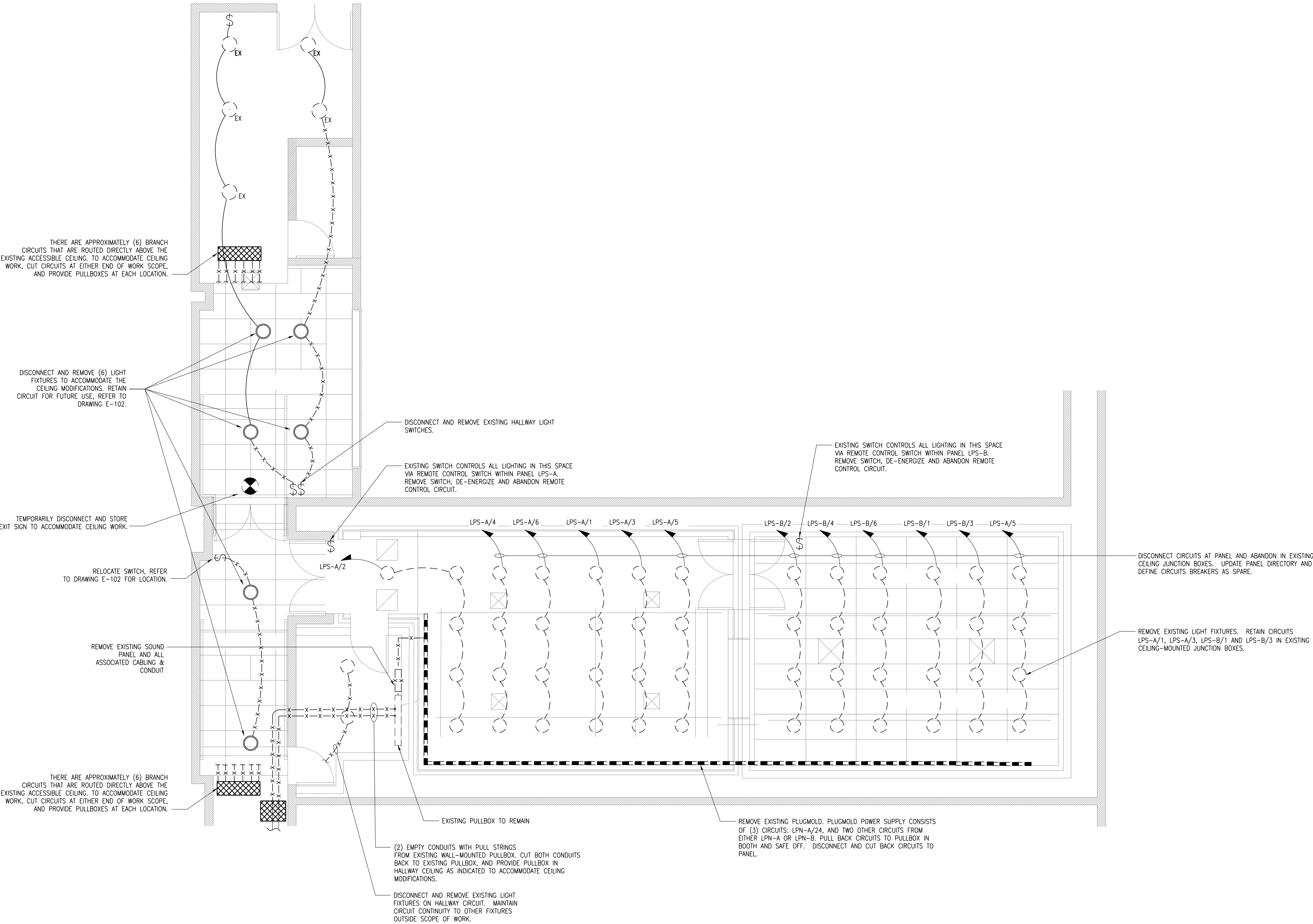
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E-003.00

SHEET

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SYMBOLS

Revisions

| REVISION # | DATE | REVISION | APPROVED |
|------------|---------|------------------|----------|
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PROJECT

Purchase College
Studio A
Renovations

DRAWING NAME

ELECTRICAL DEMOLITION PLAN

SEAL & SIGNATURE

SCALE 1/4"=1'-0"

DATE

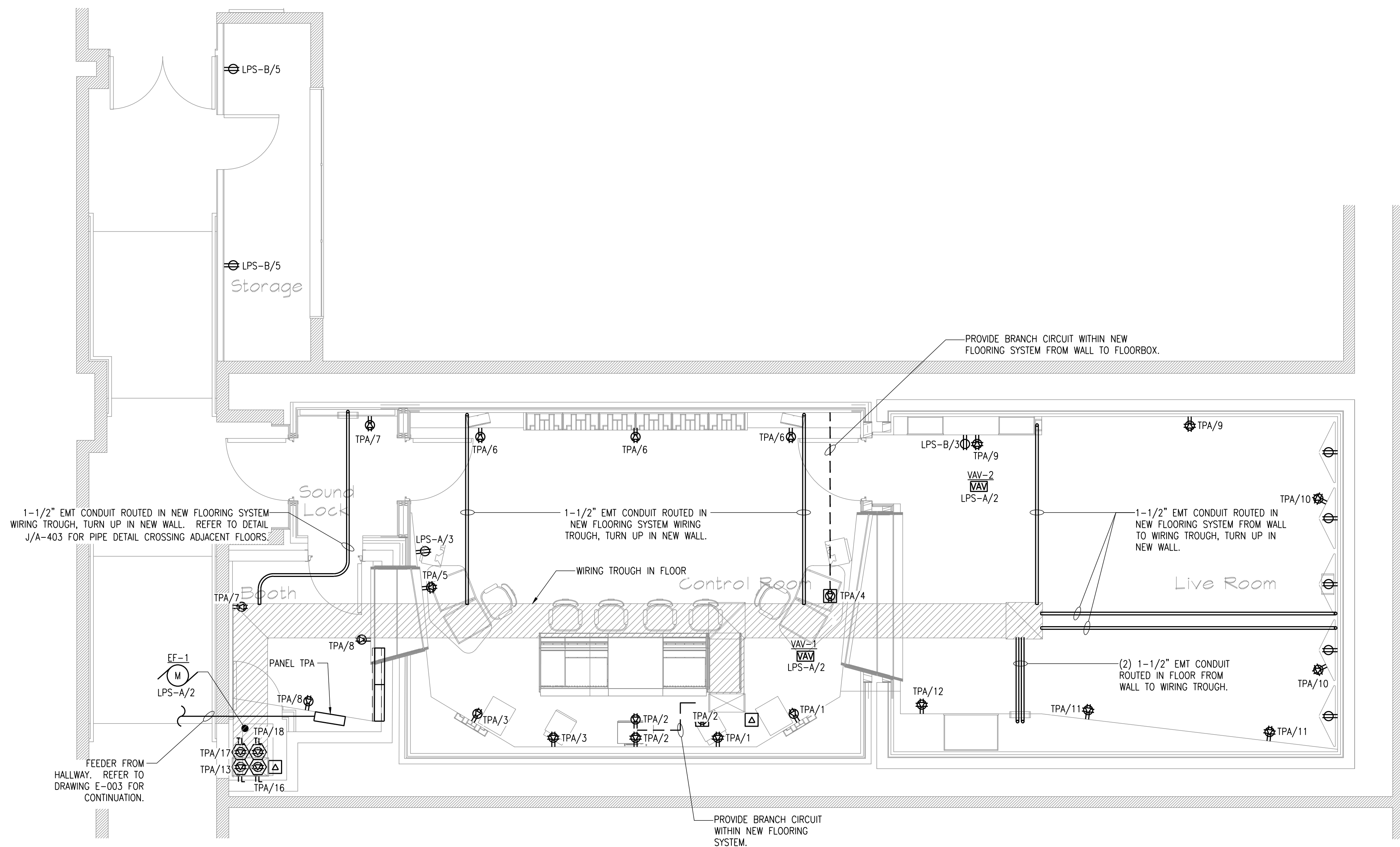
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DRAWING NUMBER

E-100.00

SHEET

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ELECTRICAL NOTES:

1. REFER TO DRAWINGS A-103 AND A-403 FOR CONDUIT ROUTING DETAILS IN NEW FLOORING SYSTEM.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ACOUSTICAL TREATMENT REQUIREMENTS.
3. DEVICE LOCATIONS AND PENETRATIONS SHALL BE COORDINATED WITH ARCHITECT.

SYMBOLS

Revisions

| REVISION # | DATE | REVISION | APPROVED |
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PROJECT

Purchase College
Studio A
Renovations

DRAWING NAME

ELECTRICAL POWER PLAN

SEAL & SIGNATURE

SCALE 1/4"=1'-0"

DATE

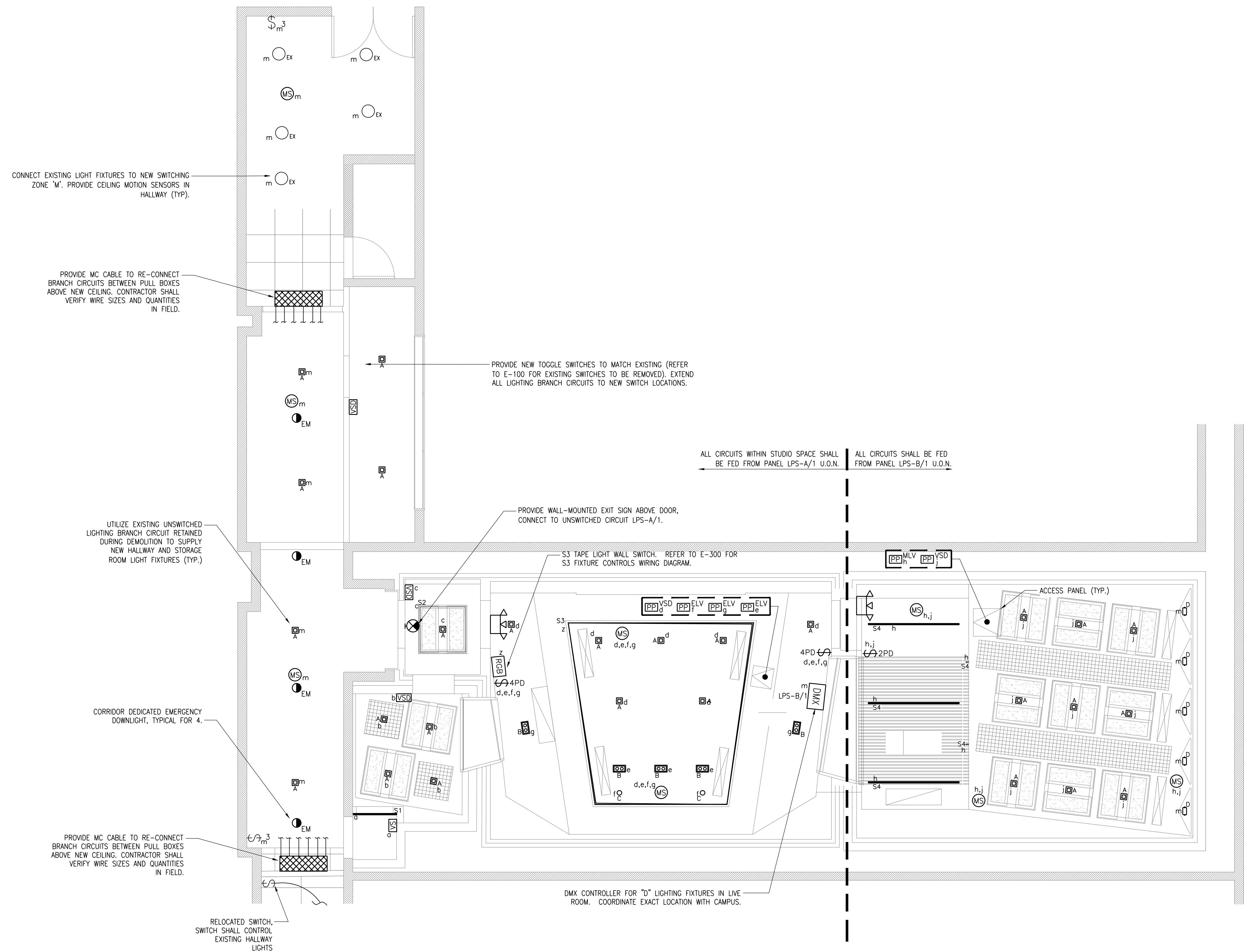
CAD FILE#

DRAWING NUMBER

E-101.00

SHEET

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NOTE: REFER TO DRAWING A-201 FOR CEILING ARCHITECTURAL DETAILS.

SYMBOLS

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PROJECT

Purchase College Studio A Renovations

DRAWING NAME

ELECTRICAL LIGHTING PLAN

SEAL & SIGNATURE

SCALE 1/4"=1'-0"

DATE

CAD FILE#

DRAWING NUMBER E-102.00

SHEET 6 of 12

D1

STUDIO A ON PLAZA LEVEL BELOW

RTU-1
M
WP LPS-B/2,4,6

SYMBOLS

Revisions

| REVISION # | DATE | REVISION | APPROVED |
|------------|---------|------------------|----------|
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PROJECT

Purchase College
Studio A
Renovations

DRAWING NAME

ELECTRICAL ROOF PLAN

SEAL & SIGNATURE

SCALE 1/4"=1'-0"

DATE

CAD FILE#

DRAWING NUMBER

E-103.00

SHEET

7 of 12

| PANEL NO. <u>LPS-A</u> SECTION <u>-</u> | | | | EXISTING PANEL | | | | <input type="checkbox"/> RECESSED | | <input type="checkbox"/> MAIN LUG ONLY | | |
|---|--------------------------|-------------|------------------------------------|----------------|---------------|------|------|---|----------------------------------|---|--------------------------|---------|
| VOLTS <u>120/208</u> PH <u>3</u> W <u>4</u> G <u>1</u> | | | | | | | | <input checked="" type="checkbox"/> SURFACE MOUNTED | | <input checked="" type="checkbox"/> MAIN CB | | |
| MAIN CB <u>225A</u> BUS <u>225A</u> MIN. INTERRUPTING RATING <u>-</u> SYMM. | | | | | | | | | | <input type="checkbox"/> FEED THRU LUG | | |
| CKT NO. | GFCI BKR | TRIP (AMPS) | DESCRIPTION OF LOAD | LOAD (KVA) | PER PHASE KVA | | | LOAD (KVA) | DESCRIPTION OF LOAD | TRIP (AMPS) | GFCI BKR | CKT NO. |
| 1 | <input type="checkbox"/> | 20 | ① STUDIO A LIGHTING | 0.71 | 0.91 | B | C | 0.2 | EF-1, VAV-1 AND VAV-2 ① | 20 | <input type="checkbox"/> | 2 |
| 3 | <input type="checkbox"/> | 20 | ① CONTROL ROOM CONVENIENCE RECEPT. | 0.18 | | 0.18 | | 0 | SPARE ④ | 20 | <input type="checkbox"/> | 4 |
| 5 | <input type="checkbox"/> | 20 | ① STORAGE CLOSET RECEPT. | 0.36 | | | 0.36 | 0 | SPARE ④ | 20 | <input type="checkbox"/> | 6 |
| 7 | <input type="checkbox"/> | | EXISTING SPACE | 0 | 0 | | | 0 | EXISTING SPACE | | <input type="checkbox"/> | 8 |
| 9 | <input type="checkbox"/> | | EXISTING SPACE | 0 | | 0 | | 0 | EXISTING SPACE | | <input type="checkbox"/> | 10 |
| 11 | <input type="checkbox"/> | | EXISTING SPACE | 0 | | | 0 | 0 | EXISTING SPACE | | <input type="checkbox"/> | 12 |
| ASCO 920 REMOTE CONTROL SWITCH ⑤ | | | | | # | | | | ASCO 920 REMOTE CONTROL SWITCH ⑤ | | | |
| | | | | | | # | | | | | | |
| | | | | | | | # | | | | | |
| | | | | | # | | | | | | | |
| | | | | | | # | | | | | | |
| 13 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 14 |
| 15 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 16 |
| 17 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | 0 | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 18 |
| 19 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 20 |
| 21 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 22 |
| 23 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | 0 | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 24 |
| 25 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 26 |
| 27 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 28 |
| 29 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | 0 | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 30 |
| 31 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 32 |
| 33 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING CIRCUIT | 50 | <input type="checkbox"/> | 34 |
| 35 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | 0 | 0 | | <input type="checkbox"/> | 36 | |
| 37 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | | <input type="checkbox"/> | 38 | |
| 39 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | | <input type="checkbox"/> | 40 | |
| 41 | <input type="checkbox"/> | 50 | EXISTING CIRCUIT | 0 | | | 0 | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 42 |
| 43 | <input type="checkbox"/> | | | 0 | 0 | | 0 | 0 | | <input type="checkbox"/> | 44 | |
| 45 | <input type="checkbox"/> | | | 0 | | 0 | | 0 | | <input type="checkbox"/> | 46 | |
| 47 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | 0 | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 48 |
| | | | | 0.91 | 0.18 | 0.36 | | | | | | |

| PANEL NO. <u>LPN-A</u> SECTION <u>-</u> | | | EXISTING PANEL | | | <input type="checkbox"/> RECESSED | | <input type="checkbox"/> MAIN LUG ONLY | | | | |
|---|--------------------------|-------------|---------------------|------------|---------------|---|---|---|---------------------|-------------|--------------------------|---------|
| VOLTS <u>120/208</u> PH <u>3</u> W <u>4</u> G <u>1</u> | | | | | | <input checked="" type="checkbox"/> SURFACE MOUNTED | | <input checked="" type="checkbox"/> MAIN CB | | | | |
| MAIN CB <u>100A</u> BUS <u>100A</u> MIN. INTERRUPTING RATING <u>-</u> SYMM. | | | | | | | | <input type="checkbox"/> FEED THRU LUG | | | | |
| CKT NO. | GFCI BKR | TRIP (AMPS) | DESCRIPTION OF LOAD | LOAD (KVA) | PER PHASE KVA | | | LOAD (KVA) | DESCRIPTION OF LOAD | TRIP (AMPS) | GFCI BKR | CKT NO. |
| | | | | | A | B | C | | | | | |
| 1 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | EXISTING SPACE | | <input type="checkbox"/> | 2 |
| 3 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING SPACE | | <input type="checkbox"/> | 4 |
| 5 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | 0 | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 6 |
| 7 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 8 |
| 9 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 10 |
| 11 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | 0 | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 12 |
| 13 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 14 |
| 15 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 16 |
| 17 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | 0 | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 18 |
| 19 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 20 |
| 21 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 22 |
| 23 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | 0 | 0 | SPARE ③ | 20 | <input type="checkbox"/> | 24 |
| 25 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | EXISTING SPACE | | <input type="checkbox"/> | 26 |
| 27 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING SPACE | | <input type="checkbox"/> | 28 |
| 29 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | 0 | 0 | EXISTING SPACE | | <input type="checkbox"/> | 30 |
| | | | | | 0 | 0 | 0 | | | | | |

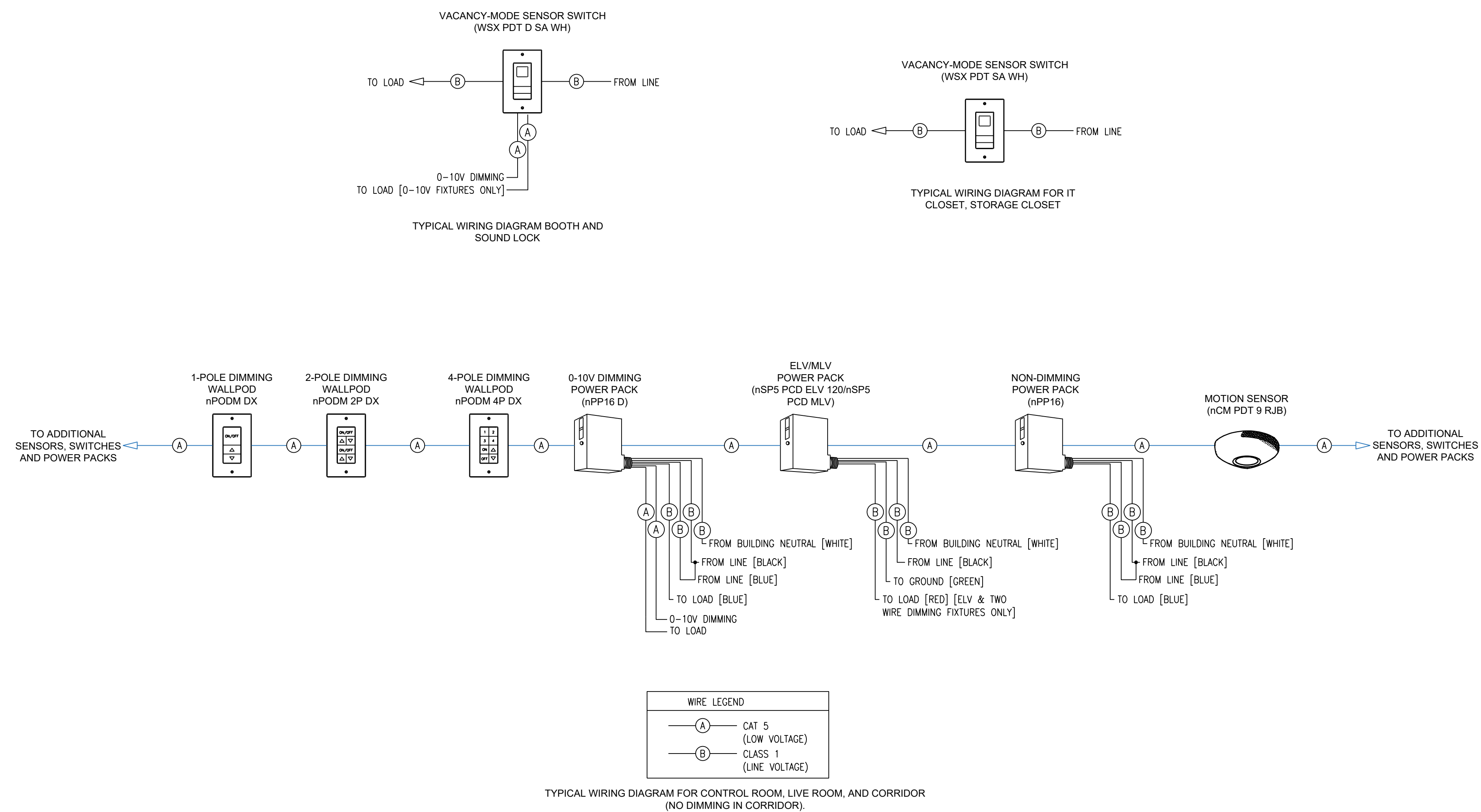
| PANEL NO. <u>PANEL TPA</u> SECTION <u>-</u> | | | | | | | | | | <input checked="" type="checkbox"/> RECESSED | | | <input checked="" type="checkbox"/> MAIN LUG ONLY | | | |
|--|--------------------------|-------------|---------------------|--|--|------------|---------------|-----|-----|--|---------------------|--|---|-------------|--------------------------|---------|
| VOLTS <u>120/208</u> PH <u>3</u> W <u>4</u> G <u>1</u> IG <u>1</u> | | | | | | | | | | <input type="checkbox"/> SURFACE MOUNTED | | | <input type="checkbox"/> MAIN CB | | | |
| MAIN CB <u>-</u> BUS <u>100A</u> MIN. INTERRUPTING RATING <u>-</u> SYMM. | | | | | | | | | | <input type="checkbox"/> FEED THRU LUG | | | | | | |
| CKT NO. | GFCI BKR | TRIP (AMPS) | DESCRIPTION OF LOAD | | | LOAD (KVA) | PER PHASE KVA | | | LOAD (KVA) | DESCRIPTION OF LOAD | | | TRIP (AMPS) | GFCI BKR | CKT NO. |
| | | | | | | | A | B | C | | | | | | | |
| 1 | <input type="checkbox"/> | 20 | MON/SUB LEFT | | | 1.1 | 1.9 | | | 0.8 | MON CTR/DISPLAY | | | 20 | <input type="checkbox"/> | 2 |
| 3 | <input type="checkbox"/> | 20 | MON/SUB RIGHT | | | 1.1 | | 1.9 | | 0.8 | CREDENZA LEFT | | | 20 | <input type="checkbox"/> | 4 |
| 5 | <input type="checkbox"/> | 20 | CREDENZA RIGHT | | | 0.8 | | | 1.1 | 0.3 | CONTROL ROOM CONV. | | | 20 | <input type="checkbox"/> | 6 |
| 7 | <input type="checkbox"/> | 20 | SOUND LOCK ISO | | | 0.3 | 0.6 | | | 0.3 | ISO BOOTH | | | 20 | <input type="checkbox"/> | 8 |
| 9 | <input type="checkbox"/> | 20 | LIVE ROOM CONV. 1 | | | 0.3 | | 0.6 | | 0.3 | LIVE ROOM CONV. 2 | | | 20 | <input type="checkbox"/> | 10 |
| 11 | <input type="checkbox"/> | 20 | LIVE ROOM CONV. 3 | | | 0.3 | | | 0.6 | 0.3 | LIVE ROOM CONV. 4 | | | 20 | <input type="checkbox"/> | 12 |
| 13 | <input type="checkbox"/> | 20 | EQUIP RACK 1 | | | 1.7 | 1.7 | | | 0 | SPARE | | | 20 | <input type="checkbox"/> | 14 |
| 15 | <input type="checkbox"/> | 20 | SPARE | | | 0 | | 1.7 | | 1.7 | EQUIP RACK 2 | | | 20 | <input type="checkbox"/> | 16 |
| 17 | <input type="checkbox"/> | 20 | EQUIP RACK 3 | | | 1.3 | | | 2.6 | 1.3 | EQUIP RACK 4 | | | 20 | <input type="checkbox"/> | 18 |
| 19 | <input type="checkbox"/> | 20 | SPARE | | | 0 | 0 | | | 0 | SPARE | | | 20 | <input type="checkbox"/> | 20 |
| 21 | <input type="checkbox"/> | 20 | SPARE | | | 0 | | 0 | | 0 | SPARE | | | 20 | <input type="checkbox"/> | 22 |
| 23 | <input type="checkbox"/> | 20 | SPARE | | | 0 | | | 0 | 0 | SPARE | | | 20 | <input type="checkbox"/> | 24 |
| 25 | <input type="checkbox"/> | 20 | SPARE | | | 0 | 0 | | | 0 | SPARE | | | 20 | <input type="checkbox"/> | 26 |
| 27 | <input type="checkbox"/> | 20 | SPARE | | | 0 | | 0 | | 0 | SPARE | | | 20 | <input type="checkbox"/> | 28 |
| 29 | <input type="checkbox"/> | 20 | SPARE | | | 0 | | | 0 | 0 | SPARE | | | 20 | <input type="checkbox"/> | 30 |
| | | | | | | | 4.2 | 4.2 | 4.3 | | | | | | | |

| PANEL NO. <u>LPS-B</u> SECTION <u>-</u> | | | | EXISTING PANEL | | | | <input type="checkbox"/> RECESSED | <input type="checkbox"/> MAIN LUG ONLY | | | |
|---|--------------------------|-------------|------------------------------------|----------------|---------------|------|-----|---|---|-------------|--------------------------|---------|
| VOLTS <u>120/208</u> PH <u>3</u> W <u>4</u> G <u>1</u> | | | | | | | | <input checked="" type="checkbox"/> SURFACE MOUNTED | <input checked="" type="checkbox"/> MAIN CB | | | |
| MAIN CB <u>225A</u> BUS <u>225A</u> MIN. INTERRUPTING RATING <u>-</u> SYMM. | | | | | | | | <input type="checkbox"/> FEED THRU LUG | | | | |
| CKT NO. | GFCI BKR | TRIP (AMPS) | DESCRIPTION OF LOAD | LOAD (KVA) | PER PHASE KVA | | | LOAD (KVA) | DESCRIPTION OF LOAD | TRIP (AMPS) | GFCI BKR | CKT NO. |
| | | | | | A | B | C | | | | | |
| 1 | <input type="checkbox"/> | 20 | ① STUDIO A LIGHTING | 0.3 | 2.6 | | | 2.3 | RTU-1 3/8 + 1/8G IN 3/4" ② | 35 | <input type="checkbox"/> | 2 |
| 3 | <input type="checkbox"/> | 20 | ① LIVE ROOM CONVENIENCE RECEPTACLE | 0.18 | | 2.48 | | 2.3 | | | <input type="checkbox"/> | 4 |
| 5 | <input type="checkbox"/> | 20 | ④ SPARE | 0 | | | 2.3 | 2.3 | | | <input type="checkbox"/> | 6 |
| 7 | <input type="checkbox"/> | | EXISTING SPACE | 0 | 0 | | | 0 | EXISTING SPACE | | <input type="checkbox"/> | 8 |
| 9 | <input type="checkbox"/> | | EXISTING SPACE | 0 | | 0 | | 0 | EXISTING SPACE | | <input type="checkbox"/> | 10 |
| 11 | <input type="checkbox"/> | | EXISTING SPACE | 0 | | | 0 | 0 | EXISTING SPACE | | <input type="checkbox"/> | 12 |
| ASCO 920 REMOTE CONTROL SWITCH ⑤ | | | | | # | | | | ASCO 920 REMOTE CONTROL SWITCH ⑤ | | | |
| | | | | | | # | | | | | | |
| | | | | | | | # | | | | | |
| | | | | | | | | # | | | | |
| | | | | | | | | | | | | |
| 13 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 14 |
| 15 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 16 |
| 17 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | 0 | 0 | | | <input type="checkbox"/> | 18 |
| 19 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 20 |
| 21 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 22 |
| 23 | <input type="checkbox"/> | | | 0 | | | 0 | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 24 |
| 25 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 26 |
| 27 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 28 |
| 29 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | 0 | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 30 |
| 31 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 32 |
| 33 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 34 |
| 35 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | 0 | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 36 |
| 37 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 38 |
| 39 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 40 |
| 41 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | 0 | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 42 |
| 43 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 44 |
| 45 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 46 |
| 47 | <input type="checkbox"/> | | EXISTING SPACE | 0 | | | 0 | 0 | EXISTING SPACE | | <input type="checkbox"/> | 48 |
| | | | | | 2.6 | 2.48 | 2.3 | | | | | |

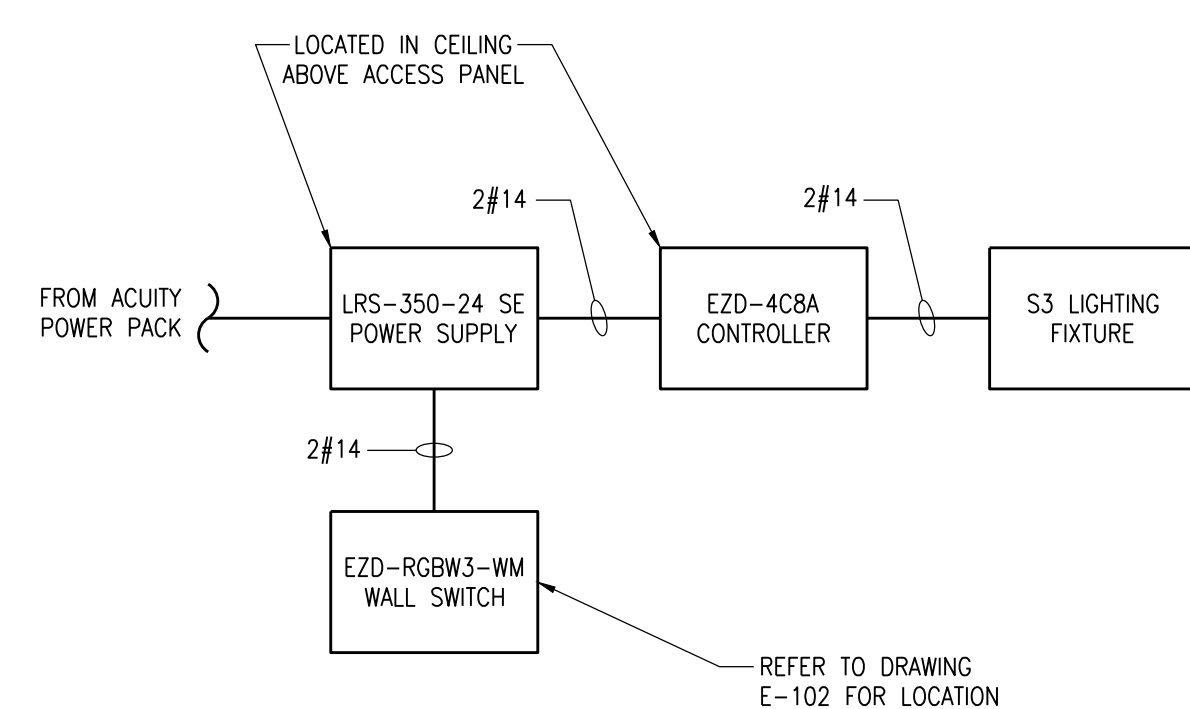
| PANEL NO. <u>LPN-B</u> SECTION <u> </u> | | | EXISTING PANEL | | | <input type="checkbox"/> RECESSED | <input type="checkbox"/> MAIN LUG ONLY | | | | | |
|--|--------------------------|-------------|---------------------|------------|---------------|---|---|------------|---------------------|-------------|--------------------------|---------|
| VOLTS <u>120/208</u> PH <u>3</u> W <u>4</u> G <u>1</u> | | | | | | <input checked="" type="checkbox"/> SURFACE MOUNTED | <input checked="" type="checkbox"/> MAIN CB | | | | | |
| MAIN CB <u>100A</u> BUS <u>100A</u> MIN. INTERRUPTING RATING <u> </u> SYMM. | | | | | | <input type="checkbox"/> FEED THRU LUG | | | | | | |
| CKT NO. | GFCI BKR | TRIP (AMPS) | DESCRIPTION OF LOAD | LOAD (KVA) | PER PHASE KVA | | | LOAD (KVA) | DESCRIPTION OF LOAD | TRIP (AMPS) | GFCI BKR | CKT NO. |
| | | | | | A | B | C | | | | | |
| 1 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 2 |
| 3 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 4 |
| 5 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 6 |
| 7 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 8 |
| 9 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 10 |
| 11 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 12 |
| 13 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 14 |
| 15 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 16 |
| 17 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | | 0 | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 18 |
| 19 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 20 |
| 21 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 22 |
| 23 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | | 0 | EXISTING CIRCUIT | 30 | <input type="checkbox"/> | 24 |
| 25 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | 0 | | | | EXISTING CIRCUIT | 20 | <input type="checkbox"/> | 26 |
| 27 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | 0 | | | EXISTING SPACE | | <input type="checkbox"/> | 28 |
| 29 | <input type="checkbox"/> | 20 | EXISTING CIRCUIT | 0 | | | | 0 | EXISTING SPACE | | <input type="checkbox"/> | 30 |
| | | | | | 0 | 0 | 0 | | | | | |

ELECTRICAL KEY NOTES:

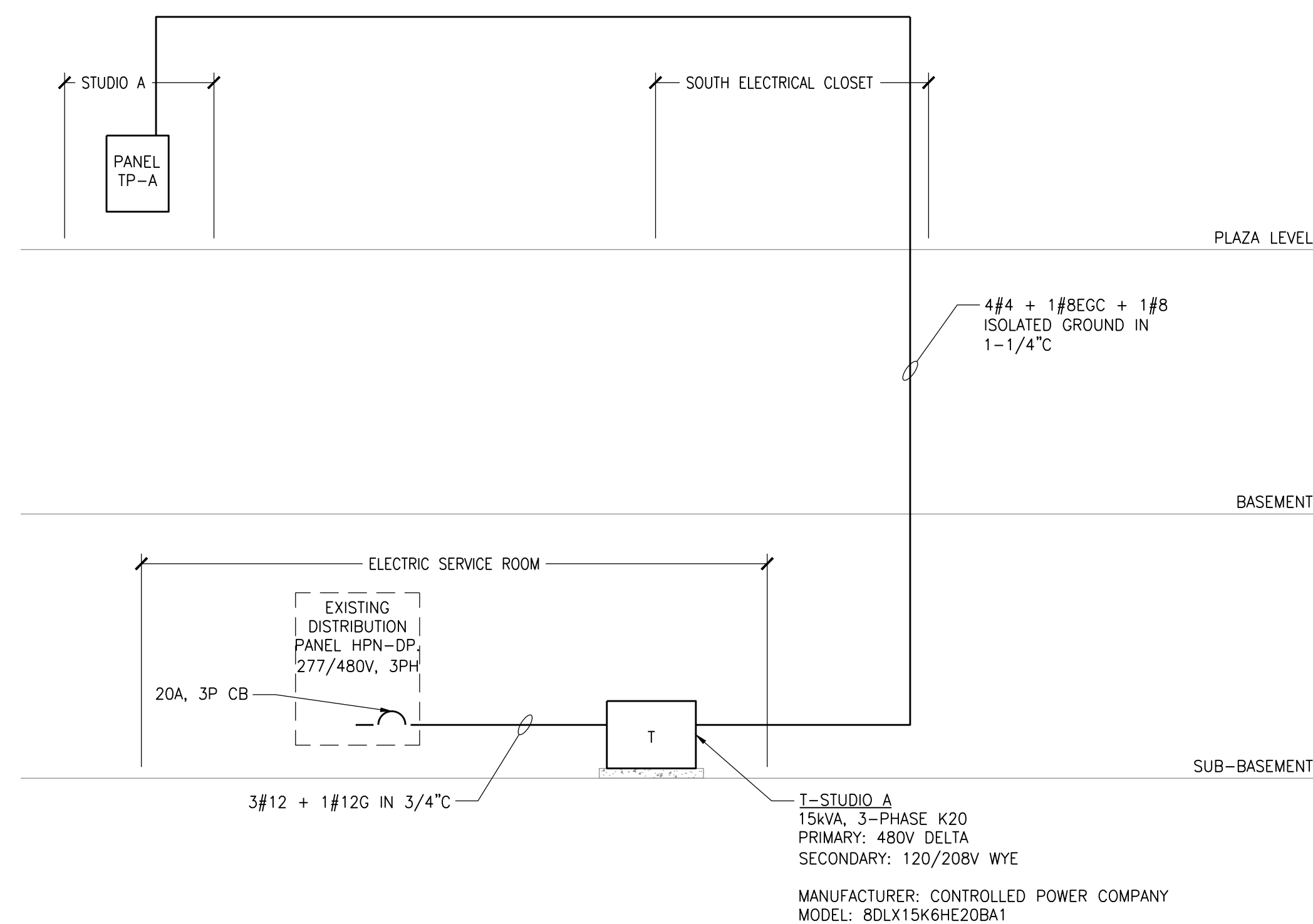
- ① INDICATES NEW CIRCUIT UTILIZING EXISTING CIRCUIT BREAKER. REUSE EXISTING CIRCUITING IN STUDIO A AND EXTEND AS NECESSARY.
- ② REPLACE (3) EXISTING 1P. 20A CIRCUIT BREAKERS WITH (1) 3P, 35A CIRCUIT BREAKER AND PROVIDE NEW CIRCUIT TO FEED RTU-1.
- ③ INDIC



LIGHTING CONTROL TYPICAL WIRING DIAGRAM



S3 FIXTURE CONTROLS WIRING DIAGRAM



SYMBOLS

| Revisions | | | |
|------------|---------|------------------|----------|
| REVISION # | DATE | REVISION | APPROVED |
| - | 7/8/21 | FINAL REVIEW SET | |
| - | 9/14/21 | ISSUED FOR BID | |

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and Studio Design

MEP CONSULTANT



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| | |
|---------|--|
| PROJECT | |
|---------|--|

Purchase College Studio A Renovations

DRAWING NAME

ELECTRICAL DETAILS (SHEET 1)

SEAL & SIGNATURE

| | |
|-------|-----|
| SCALE | N/A |
|-------|-----|

DATE _____

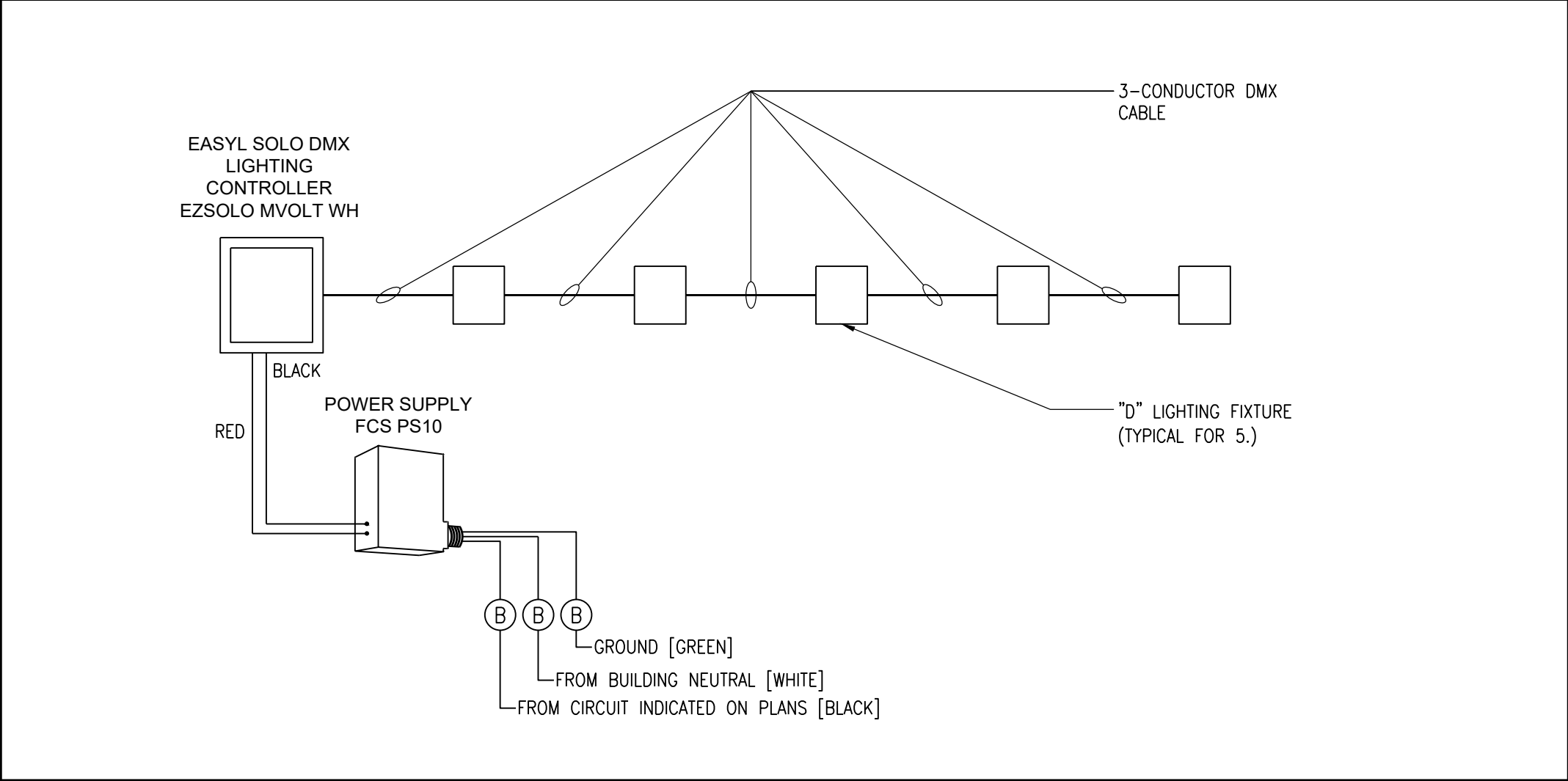
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DRAWING NUMBER

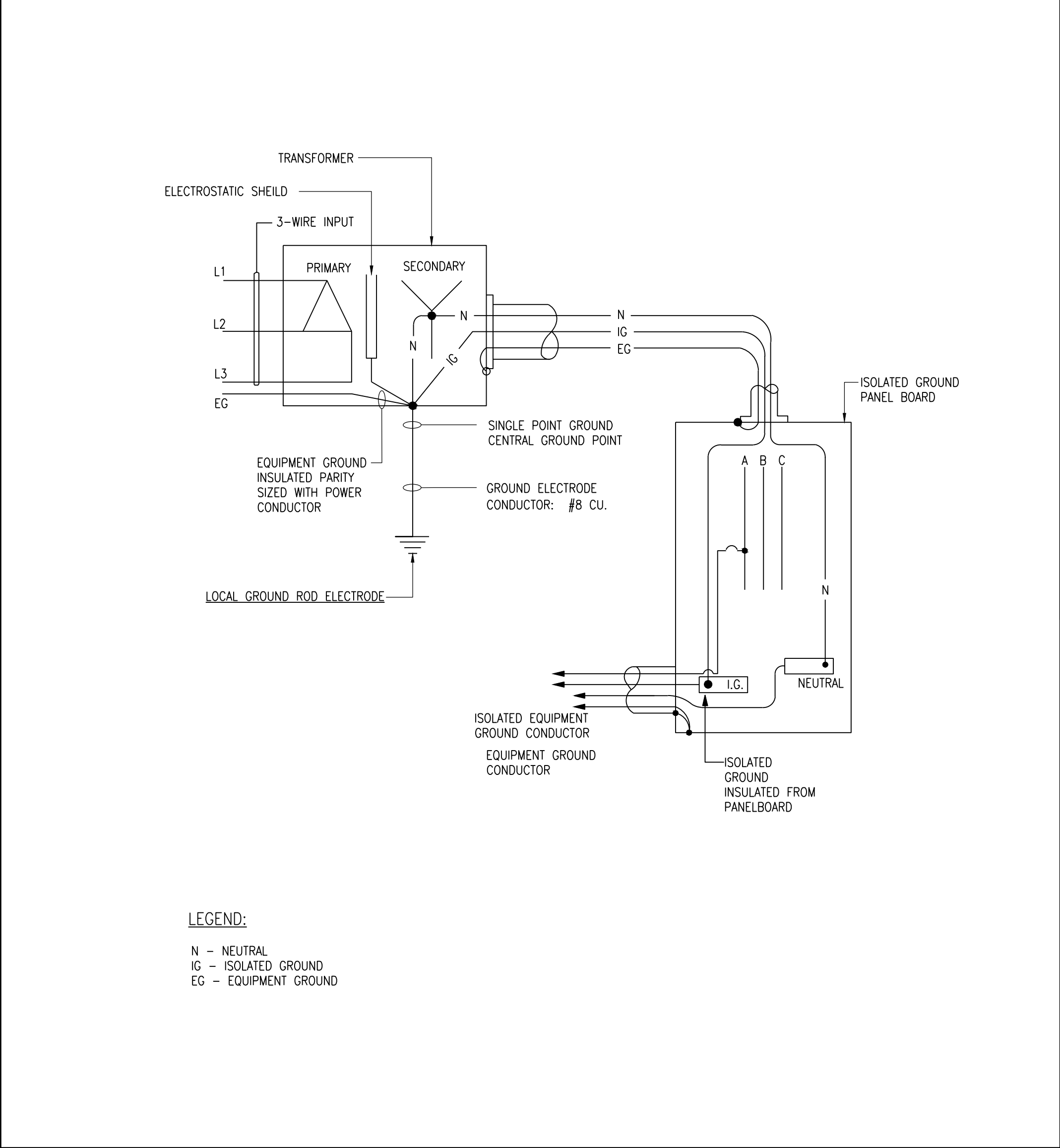
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SHEET

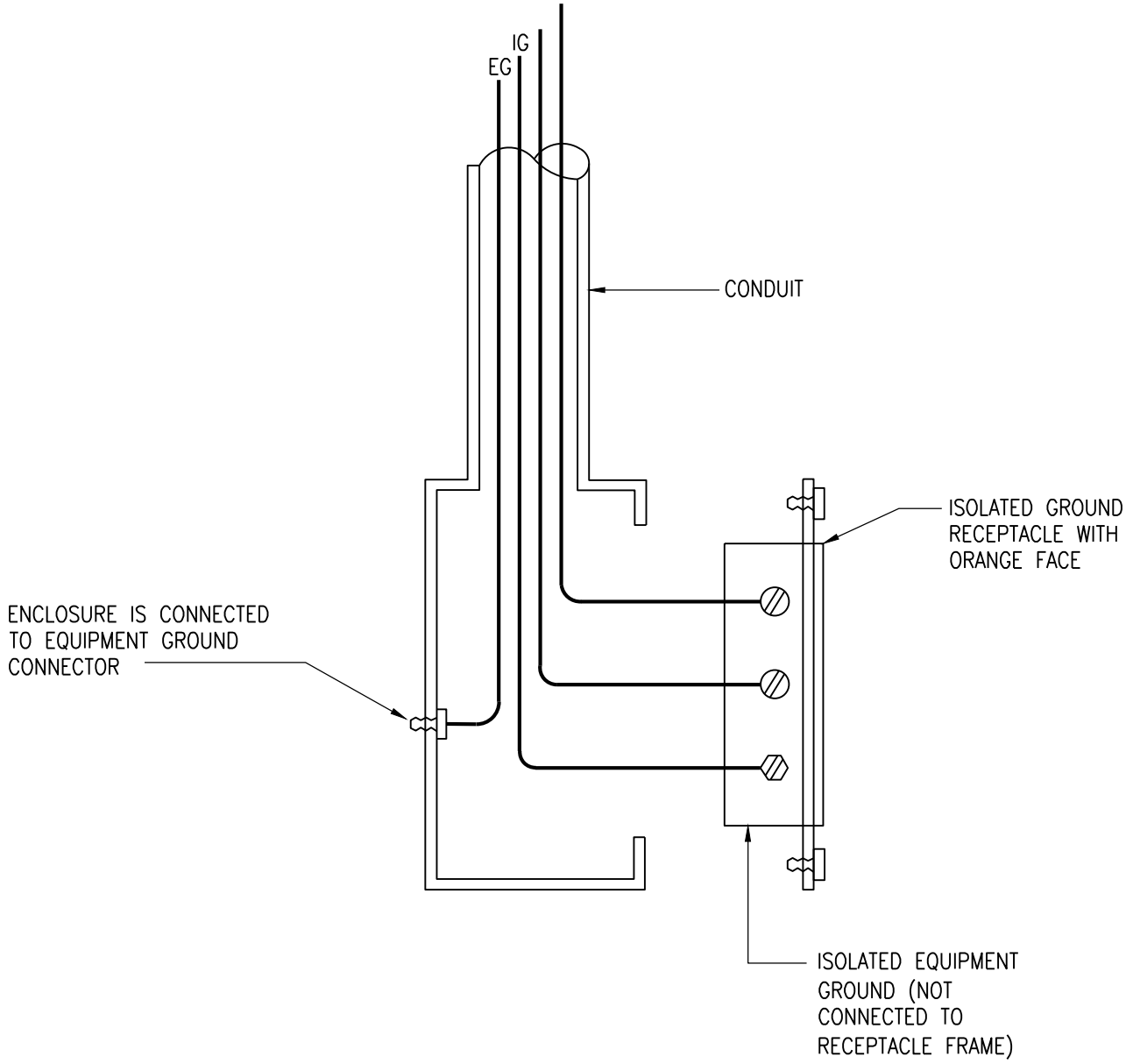
9 of 12



DMX LIGHTING CONTROL WIRING DIAGRAM



ISOLATED GROUND PANELBOARD WIRING DETAIL



- NOTES:
1. PROVIDE DEDICATED ISOLATED GROUND, EQUIPMENT GROUND AND NEUTRAL CONDUCTOR FOR EACH CIRCUIT SERVING TELEVISION BROADCAST EQUIPMENT, AUDIO VISUAL EQUIPMENT AND SOUND SYSTEM EQUIPMENT.
- LEGEND:
- φ - PHASE CONDUCTOR
 - N - NEUTRAL CONDUCTOR
 - EG - EQUIPMENT GROUND CONDUCTOR
 - IG - ISOLATED EQUIPMENT GROUND CONDUCTOR CONNECTED TO "SINGLE POINT GROUND" AT LOCAL TRANSFORMER OR RDU

ISOLATED GROUND RECEPTACLE WIRING DETAIL

SYMBOLS

Revisions

| REVISION # | DATE | REVISION | APPROVED |
|------------|---------|------------------|----------|
| - | 7/8/21 | FINAL REVIEW SET | |
| - | 9/14/21 | ISSUED FOR BID | |

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PROJECT

Purchase College
Studio A
Renovations

DRAWING NAME

ELECTRICAL DETAILS (SHEET 2)

SEAL & SIGNATURE

SCALE N/A

DATE

CAD FILE#

DRAWING NUMBER

E-301.00

SHEET

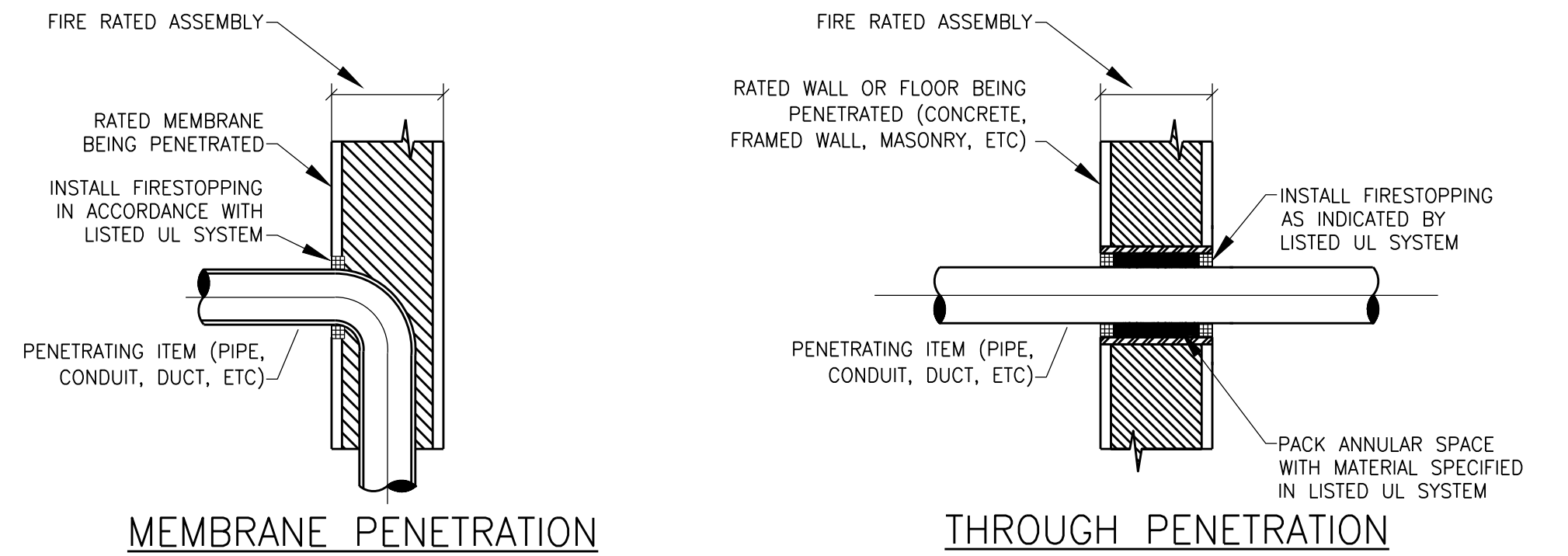
10 of 12

GENERAL GUIDELINE FOR SELECTING APPROPRIATE FIRESTOPPING SYSTEMS:

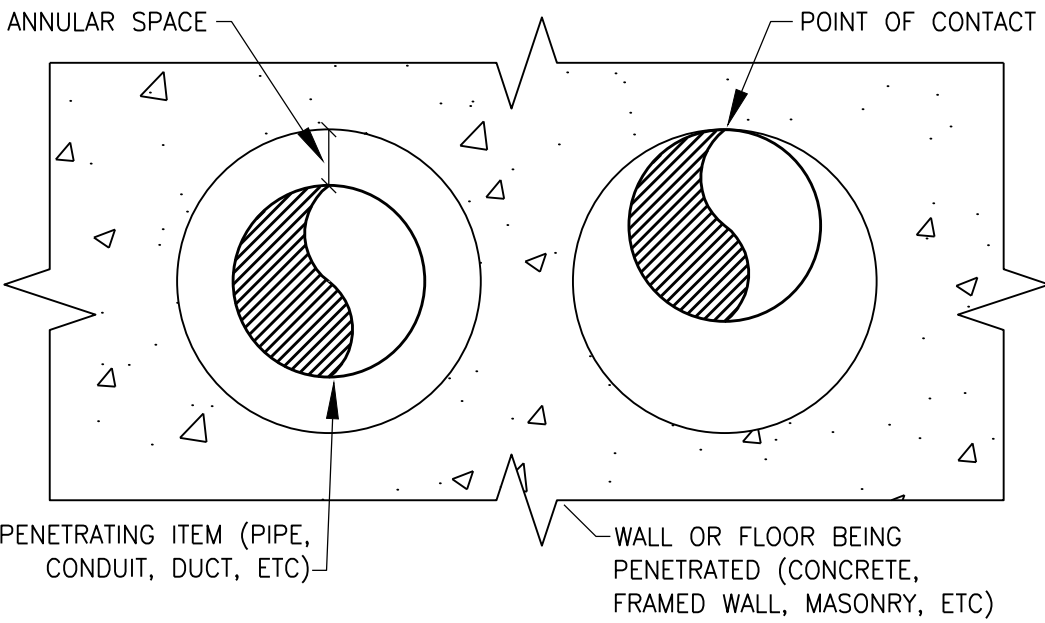
- DETERMINE SYSTEM COMPONENTS:
- TYPE OF PENETRATION (MEMBRANE OR THROUGH)
 - PENETRATING ITEM
 - ASSEMBLY BEING PENETRATED
 - MINIMUM AND MAXIMUM ANNULAR SPACES, POINTS OF CONTACT

- DETERMINE RATING REQUIREMENTS:
- F-RATING, T-RATING, L-RATING, AND W-RATING

FOR EACH PENETRATION, SELECT A SYSTEM LISTED BY AN APPROVED TESTING AGENCY (UL, FM, ETC) THAT MEETS ALL OF THE ABOVE PARAMETERS



- F-RATING: THE AMOUNT OF TIME (IN HOURS) BEFORE FLAMES CAN PASS THROUGH A PENETRATION FROM THE SIDE OF A WALL OR FLOOR EXPOSED TO FLAMES TO THE UNEXPOSED SIDE
- T-RATING: THE AMOUNT OF TIME (IN HOURS) BEFORE THE SURFACE OF AN ASSEMBLY AND/OR PENETRATING ITEM ON THE SIDE OF A WALL OR FLOOR NOT EXPOSED TO FLAMES RISES TO A TEMPERATURE OF 325°F
- L-RATING: THE AMOUNT OF AIR/SMOKE (IN CUBIC FEET PER MINUTE PER SQUARE FOOT) THAT CAN LEAK THROUGH THE PENETRATION
- W-RATING: A FIRESTOPPING PRODUCT'S ABILITY TO RESIST THE PASSAGE OF WATER THROUGH FLOOR ASSEMBLIES

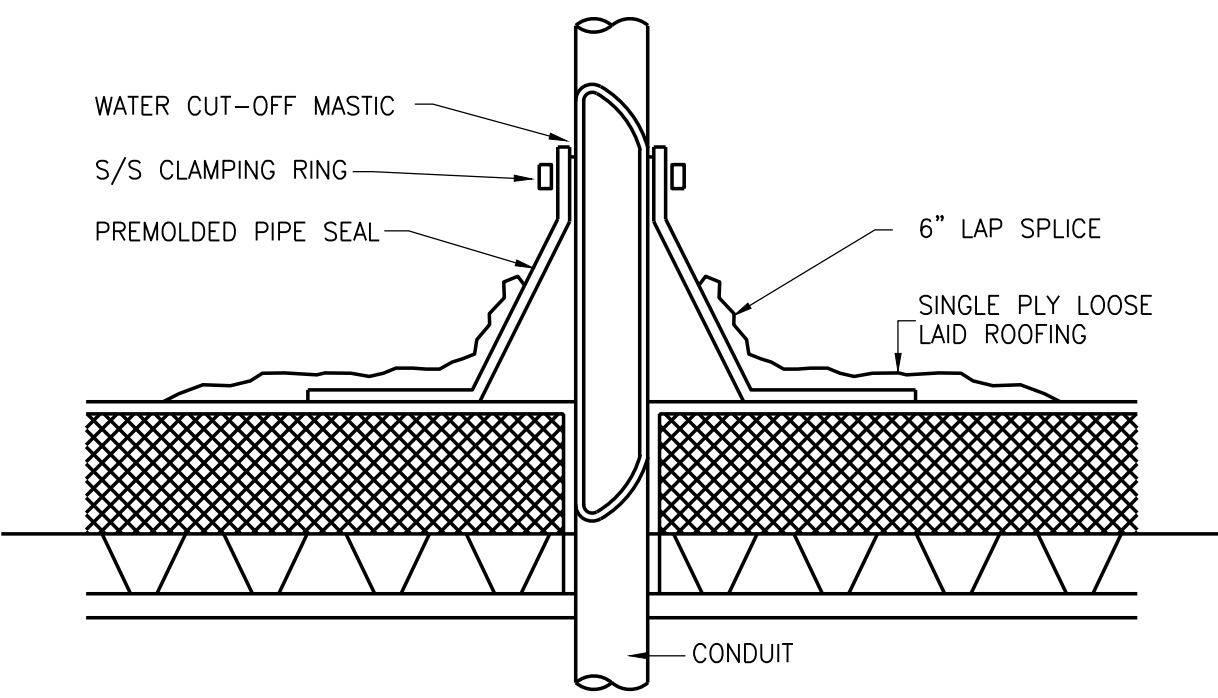


REFER TO PROJECT SPECIFICATIONS FOR RATINGS AND ADDITIONAL FIRESTOPPING REQUIREMENTS

DEFINITIONS AND NOTES

ANNULAR SPACE

FIRESTOPPING PENETRATIONS GUIDELINE



CONDUIT ROOF PENETRATION DETAIL

SYMBOLS

Revisions

| REVISION # | DATE | REVISION | APPROVED |
|------------|---------|------------------|----------|
| - | 7/8/21 | FINAL REVIEW SET | |
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White Plains, NY 10601
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PROJECT

Purchase College
Studio A
Renovations

DRAWING NAME

ELECTRICAL DETAILS (SHEET 3)

| SEAL & SIGNATURE | SCALE |
|------------------|----------------|
| | N/A |
| | DATE |
| | CAD FILE# |
| | DRAWING NUMBER |
| | E-302.00 |
| | SHEET |
| | 11 of 12 |

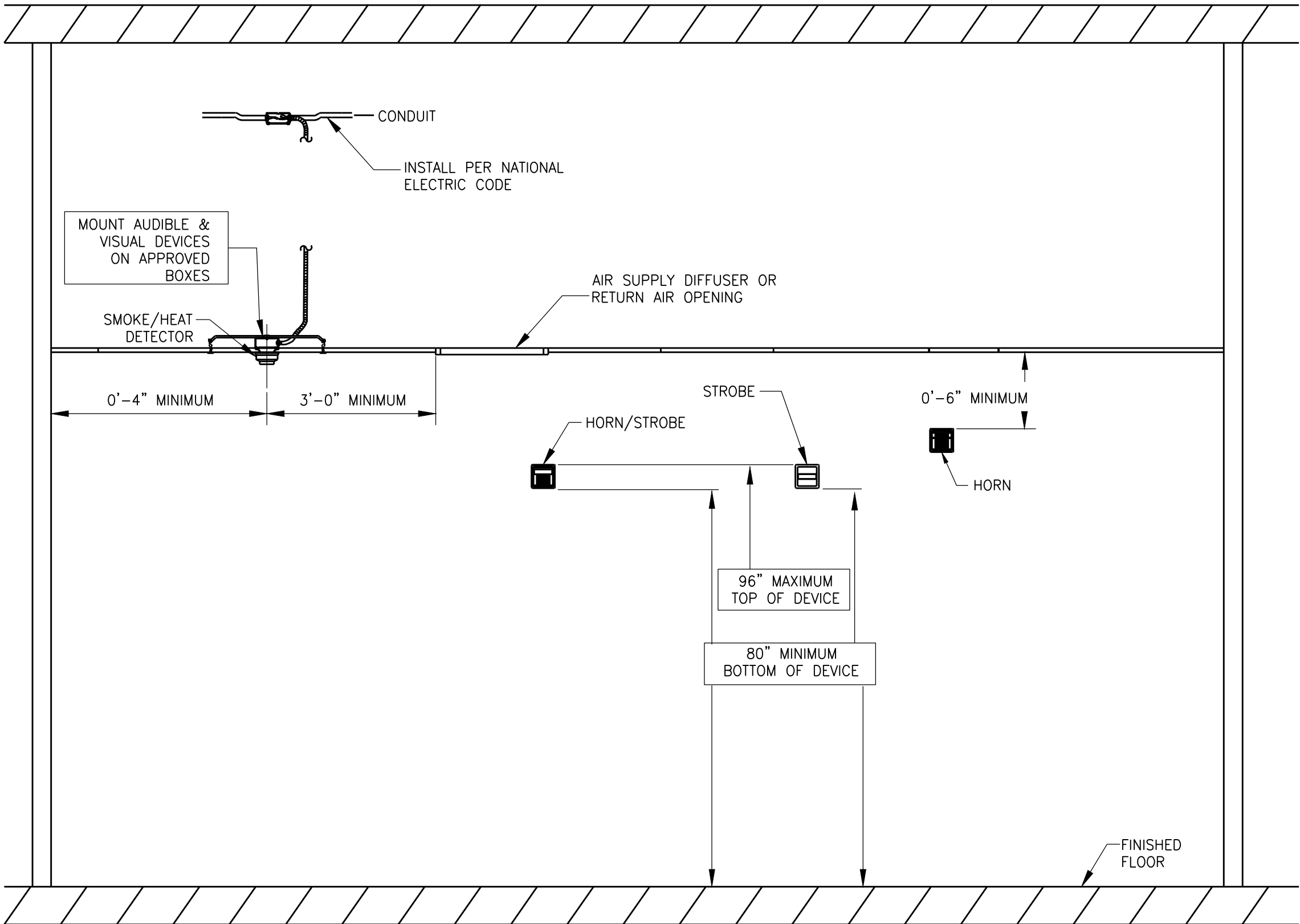
| SYMBOL LIST | |
|---|--|
| PANELS AND CONTROL UNITS | |
|  | FIRE ALARM CONTROL PANEL |
| INITIATION DEVICES | |
|  | SMOKE DETECTOR 'EL' INDICATES ELEVATOR RECALL 'SP' INDICATES STAIR PRESSURIZATION 'SB' INDICATES SOUNDER BASE |
| NOTIFICATION DEVICES | |
|  | STROBE 'C' INDICATES CEILING-MOUNTED '15' INDICATES CANDELA RATING |
|  | COMBINATION HORN AND STROBE 'C' INDICATES CEILING-MOUNTED '15' INDICATES CANDELA RATING |
| ABBREVIATIONS | |
| EXR | INDICATES EXISTING TO BE RELOCATED |
| RL | INDICATES RELOCATED POSITION OF DEVICE |

FIRE ALARM GENERAL NOTES

- FIRE ALARM CIRCUITS SHALL BE SIZED TO A MAXIMUM OF 80% OF CAPACITY.
- CLASS AND STYLE OF WIRE: FIRE ALARM CIRCUITS SHALL BE WIRED NFPA CLASS B. NETWORK CIRCUIT RETURNS SHALL BE SEPARATED BY A MINIMUM OF 15 FEET.
- LOW VOLTAGE FIRE ALARM CONDUCTORS SHALL BE PROTECTED BY EITHER BUILDING CONSTRUCTION OR CONDUIT TO 8 FEET ABOVE THE FINISHED FLOOR. MECHANICAL AND ELECTRICAL ROOMS AND OTHER LOCATIONS SUBJECT TO PHYSICAL DAMAGE SHALL BE IN FULL RIGID CONDUIT. IN ALL OTHER AREAS, APPROVED WIRE MAY BE RUN WITHOUT CONDUIT ABOVE 8 FT. PROVIDED IT CONNECTS TO BUILDING CONSTRUCTION USING AN APPROVED MEANS.
- FIRE ALARM CABLES SHALL NOT BE MIXED WITH NON FIRE ALARM CABLING. LOW VOLTAGE FIRE ALARM CABLING SHALL NOT BE MIXED OR WIRED NEAR ANY AC CIRCUIT.
- ALL NOTIFICATION CIRCUITS SHALL BE A MINIMUM OF 14 AWG AND OTHER LOW VOLTAGE FIRE ALARM CIRCUITS SHALL BE 16 AWG MINIMUM.
- POLARITY SHALL BE OBSERVED ON ALL CIRCUITS. T-TAPPING SHALL NOT BE ALLOWED ON ANY NOTIFICATION CIRCUITS (HORN, STROBE OR SPEAKER). T-TAPPING SHALL NOT BE PERMITTED ON ADDRESSABLE CIRCUITS WITHOUT THE EXPRESS PERMISSION OF THE ENGINEER.
- WIRING, POWER, CONDUCTORS, CONDUITS ETC. SHALL MEET THE 2017 NATIONAL ELECTRICAL CODE.
- WORK SHALL BE IN ACCORDANCE WITH THE 2020 NYS BUILDING CODE.
- CONDUITS MAY NOT ENTER THE TOP OF ANY FIRE ALARM CONTROL EQUIPMENT CABINET.
- FIRE ALARM EQUIPMENT SHALL BE INSTALLED WITH AESTHETICS IN MIND. CABINETS SHALL BE SEMI FLUSH MOUNTED AND CABLE TRAYS SHALL BE HIDDEN.
- FIRE ALARM CABINETS AND JUNCTION BOXES SHALL BE PAINTED FIRE DEPARTMENT RED. FIRE ALARM CABINETS SHALL BE CLEARLY LABELED WITH AN APPROVED LAMINATE ENGRAVED LABEL.
- FIRE ALARM WIRE SHALL BE CLEARLY LABELED IN JUNCTION BOXES AND CABINETS. TERMINALS SHALL BE NUMBERED AND LABELED. CONNECTIONS SHALL BE EITHER SOLDERED, APPROVED TERMINAL STRIPS OR SCOTCH LOCKS.
- WIRING SHALL BE INSPECTED TO ASSURE THERE ARE NO OPENS, SHORTS OR EARTH GROUNDS.
- AREA SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC TYPE.
- SMOKE DETECTORS SHALL BE MOUNTED AT LEAST 3 FT AWAY FROM ANY AIR REGISTER.
- ALL CEILING MOUNT DEVICES SHALL BE SECURELY FASTENED TO BUILDING CONSTRUCTION.
- DEVICE LOCATIONS SHALL BE READILY ACCESSIBLE TO ALLOW FOR MAINTENANCE AND REPAIR.
- STROBE LIGHTS SHALL BE UL-1971 APPROVED/LISTED. THE MINIMUM CANDELA IS 15 UNLESS OTHERWISE NOTED.
- NOTIFICATION DEVICES THAT INCLUDE A STROBE SHALL BE MOUNTED 80 INCHES OFF THE FINISHED FLOOR TO THE BOTTOM OF THE STROBE, NOT NECESSARILY THE ELECTRICAL BOX.
- LOCATIONS OF ALL FIRE ALARM EQUIPMENT SHALL BE SUBJECT TO THE DEPARTMENT OF BUILDINGS AND FIRE DEPARTMENT APPROVAL. NO CHANGE OR MODIFICATION TO THE SYSTEM OR PLANS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD. IF ANY CHANGES ARE MADE TO THE DRAWINGS PRIOR TO OR DURING INSTALLATION, AS BUILT PLANS SHALL BE PREPARED BY THE ENGINEER AND FILED WITH THE APPROPRIATE AGENCIES FOR FINAL ACCEPTANCE.
- THE CONTRACTOR SHALL PREPARE, SIGN AND SEAL ALL NECESSARY DOCUMENTS REQUIRED FOR INSPECTION AND TO OBTAIN A FINAL LETTER OF APPROVAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY AND ALL ABANDONED FIRE ALARM DEVICES AND WIRE. PAINT, PATCH AND CLEANUP SHALL ALSO BE INCLUDED.

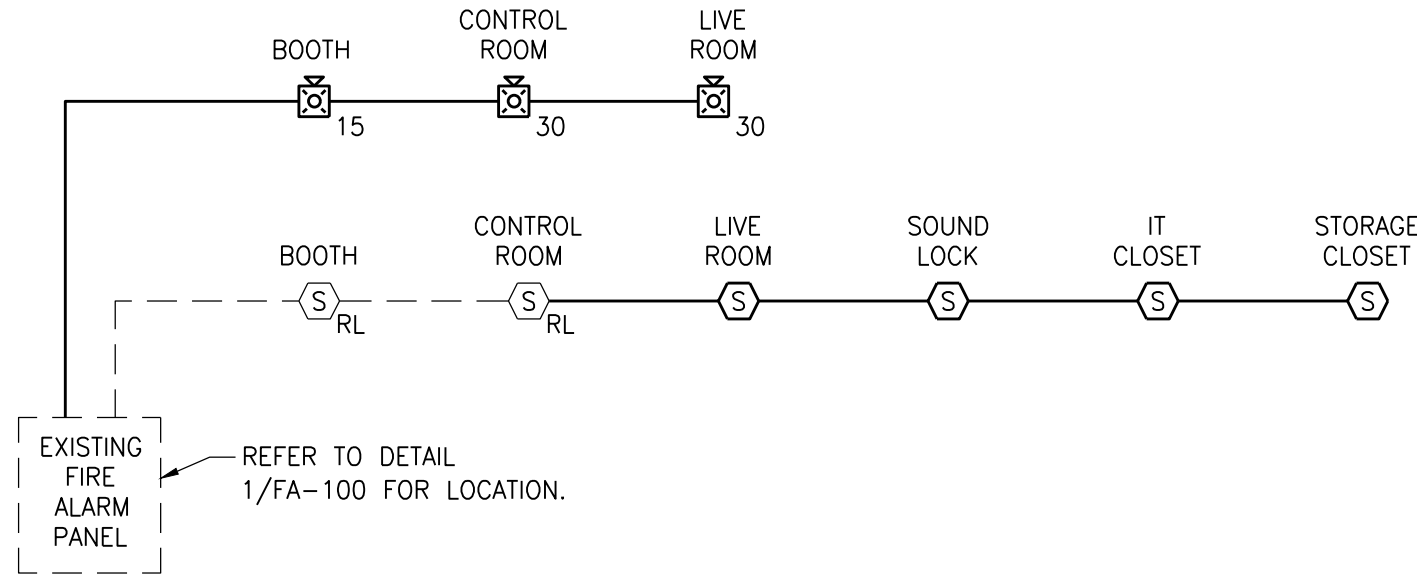
| | | CONTROL UNIT ANNUNCIATION | | | | | | | | | NOTIFICATION | REQUIRED FIRE SAFETY CONTROL | | | |
|--|--|---------------------------|--|--|--|--|--|--|--|--|--------------|------------------------------|--|--|--|
| | | | | | | | | | | | | | | | |
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1 FIRE ALARM MATRIX
SCALE: N/A



2 FIRE ALARM DEVICE MOUNTING DETAIL
SCALE: N/A

| FIRE ALARM DRAWING LIST | |
|-------------------------|--|
| FA-001.00 | FIRE ALARM SYMBOLS LIST, MATRIX, DEVICE MOUNTING DETAIL, RISER DIAGRAM, GENERAL NOTES AND DRAWING LIST |
| FA-100.00 | FIRE ALARM PLAZA LEVEL AND STUDIO A PLANS |



3 FIRE ALARM RISER DIAGRAM
SCALE: N/A

- NOTES
- COORDINATE EXTENT OF WORK WITH FIRE ALARM VENDOR PRIOR TO COMMENCING WORK.
 - FIRE ALARM VENDOR CONTACT INFO:
COMPANY: RED HAWK
CONTACT PERSON: MR. NICK DELFICO
TEL: 914-769-8900
 - ALL NEW COMPONENTS SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.
 - INCLUDE ALL FIRE ALARM VENDORS AND FIRE DEPARTMENT COSTS.
 - TEST SYSTEM TO ENSURE COMPLETE FUNCTIONALITY OF ALL NEW AND EXISTING EQUIPMENT AND DEVICES.
 - SECURE FIRE DEPARTMENT APPROVAL FOR THE SYSTEM.
 - CONTRACTOR SHALL COORDINATE LOCATION OF LANDLORD'S EXISTING ITB LOCATION ON FIRST FLOOR OR CELLAR FOR CONNECTION TO FIRE ALARM CONTROL SYSTEM.

SYMBOLS

Revisions

| REVISION # | DATE | REVISION | APPROVED |
|------------|---------|------------------|----------|
| - | 7/8/21 | FINAL REVIEW SET | |
| - | 9/14/21 | ISSUED FOR BID | |

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**FRANCIS
MANZELLA
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Acoustic Consulting
and Studio Design

MEP CONSULTANT

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PROJECT

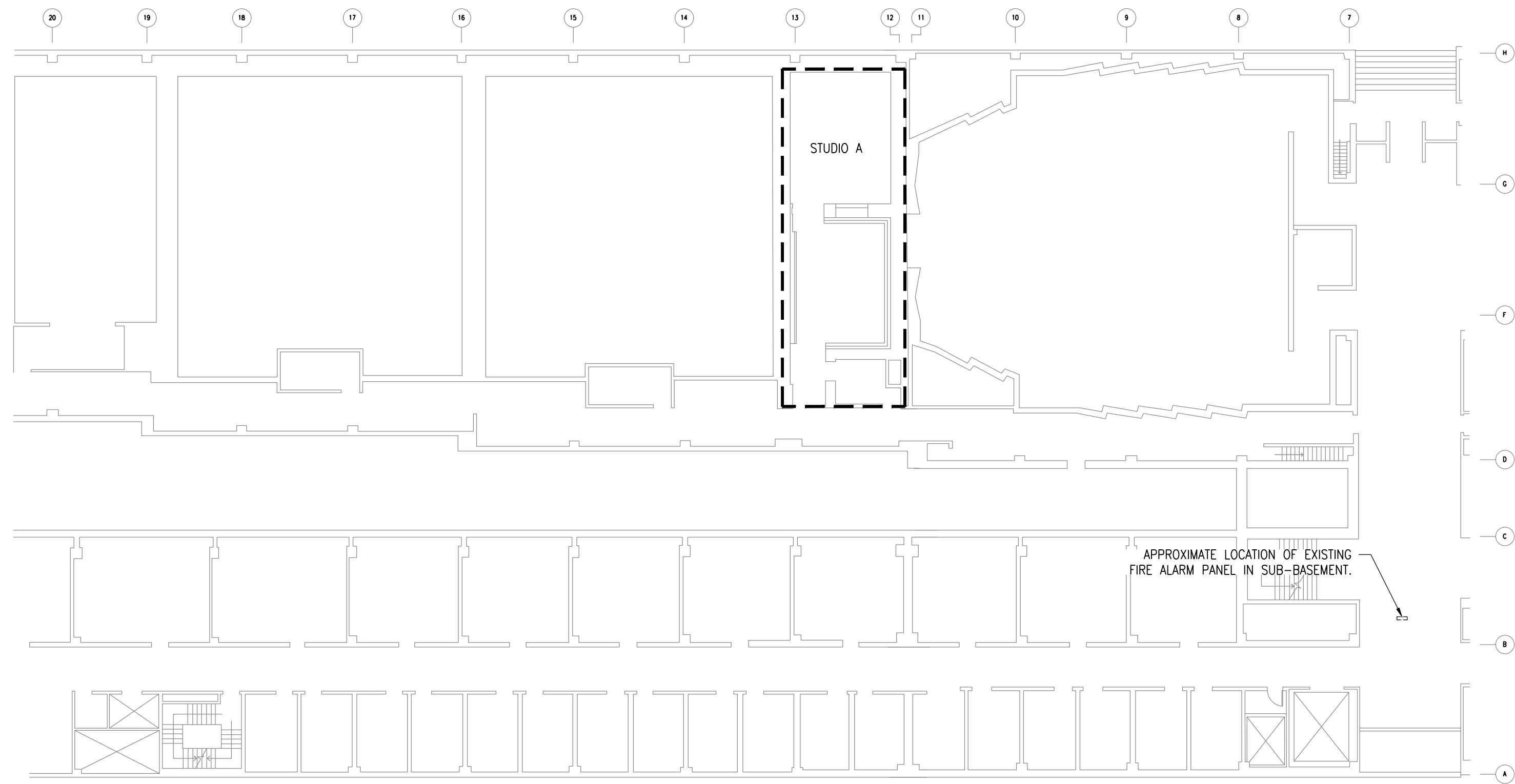
Purchase College
Studio A
Renovations

DRAWING NAME

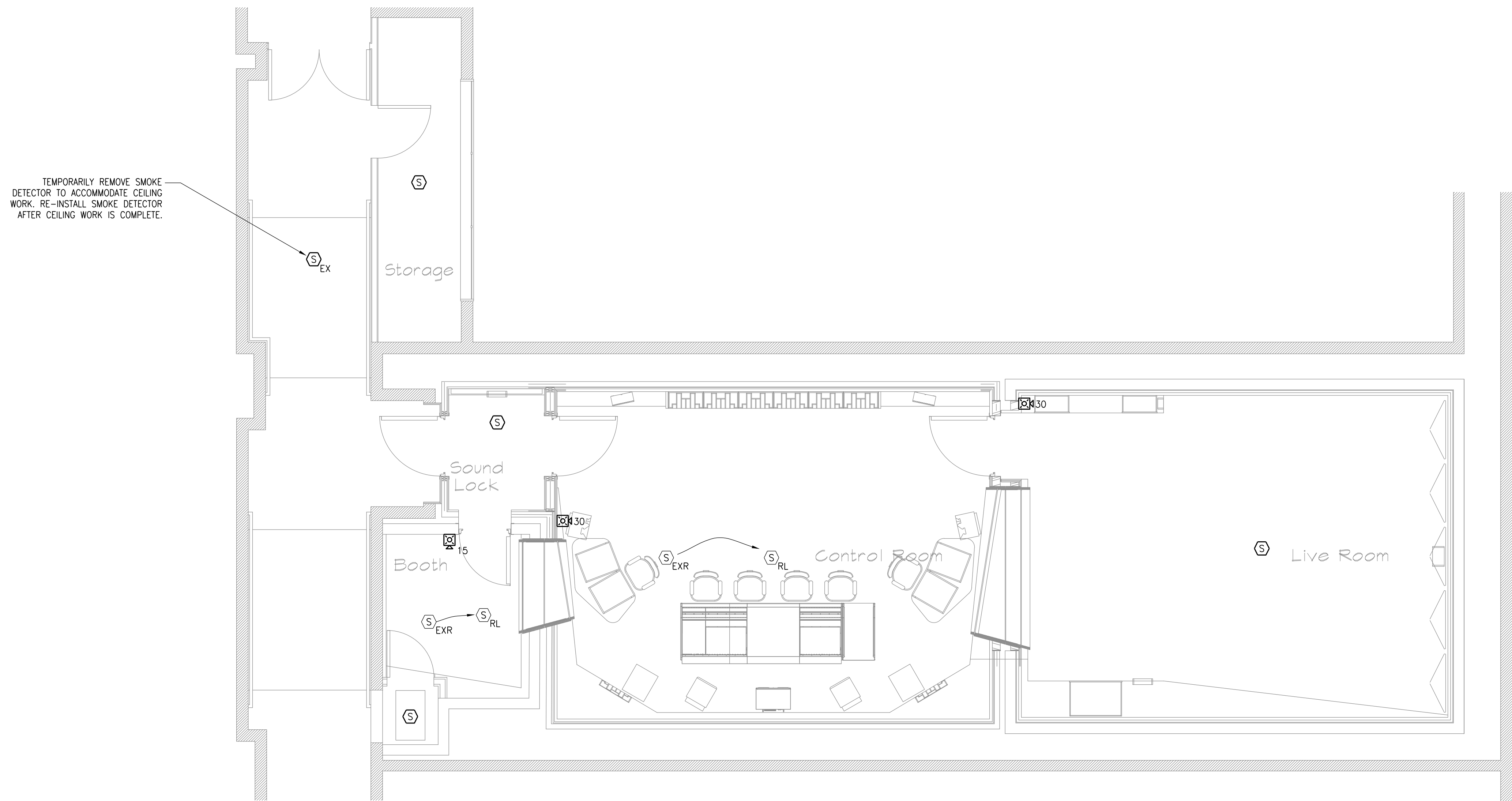
FIRE ALARM SYMBOLS LIST, MATRIX,
DEVICE MOUNTING DETAIL, RISER DIAGRAM
GENERAL NOTES AND DRAWING LIST.

SEAL & SIGNATURE

| SCALE | N/A |
|----------------|-----------|
| DATE | |
| CAD FILE# | |
| DRAWING NUMBER | FA-001.00 |
| SHEET | 1 of 2 |



1 FIRE ALARM PLAZA LEVEL PLAN
SCALE: 1/16" = 1'-0"



2 FIRE ALARM STUDIO A PLAN
SCALE: 1/4" = 1'-0"

SYMBOLS

Revisions

| REVISION # | DATE | REVISION | APPROVED |
|------------|---------|------------------|----------|
| - | 7/8/21 | FINAL REVIEW SET | |
| - | 9/14/21 | ISSUED FOR BID | |

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PROJECT

Purchase College
Studio A
Renovations

DRAWING NAME

FIRE ALARM PLAZA LEVEL AND
STUDIO A PLANS

SEAL & SIGNATURE

SCALE 1/4"=1'-0"

DATE

CAD FILE#

DRAWING NUMBER

FA-100.00

SHEET

2 of 2

GENERAL NOTES

1. DESIGN IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2014 NEW YORK CITY BUILDING CODE AND ASCE 7-10 "MINIMUM DESIGN LOADS FOR BUILDINGS".
2. THE CONTRACTOR SHOULD VERIFY ALL FIELD DIMENSIONS BY MEASUREMENT AT THE JOB SITE BEFORE SUBMITTING SHOP DRAWINGS.
3. COORDINATE THE STRUCTURAL DRAWINGS WITH THE MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS, CLEARANCE, ETC. WITH WORK OF ALL TRADES AND SUBMITTING SHOP DRAWINGS FOR APPROVAL.
4. PROVIDE ONE SHOP COAT AND ONE FIELD COAT OF PRIMER PAINT ON STRUCTURAL STEEL THAT IS: NOT ENCASED IN CONCRETE; NOT RECEIVING SPRAYED FIREPROOFING; OR NOT MEETING OTHER CONDITIONS LISTED IN THE SPECIFICATIONS.
5. PROVIDE ALL TEMPORARY BRACING OF THE STEEL FRAME REQUIRED TO MAINTAIN PLUMBNESS AND STABILITY DURING CONSTRUCTION.
6. DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS SPECIFICALLY SHOWN OTHERWISE.

STRUCTURAL STEEL NOTES:

1. MATERIALS:
- | | |
|-----------------------------|-------------------|
| a. STRUCTURAL STEEL | ASTM A572 |
| GRADE 50 | |
| b. CHANNELS, ANGLES, PLATES | ASTM A36 |
| c. BASE PLATES & SPLICES | ASTM A572 |
| d. HIGH STRENGTH BOLTS | ASTM A325 OR A490 |
| e. WELDED ELECTRODES | AWS A5.1 |
2. ALL DESIGN, DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION, AS MODIFIED BY THE 2014 NYC BUILDING CODE.
3. THE STEEL CONTRACTOR SHALL FURNISH MILL TEST REPORTS FROM THE PRODUCER OF STEEL CERTIFYING THAT THE STEEL MEETS THE MINIMUM REQUIREMENTS AS SPECIFIED BY THE ASTM SPECIFICATIONS.
4. SUBMIT SHOP DRAWINGS SHOWING ALL DIMENSION AND CONNECTION DETAILS FOR APPROVAL.
5. VERIFICATION, TESTING AND INSPECTIONS SHALL CONFORM TO THE SCHEDULE IN THE TABLE 1704.3 OF THE NYC BUILDING CODE. INSPECTIONS SHALL VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SHOP DRAWINGS.
6. SPECIAL INSPECTION OF SHOP FABRICATION IS NOT REQUIRED WHEN FABRICATOR HAS AISC CERTIFICATION FOR THE TYPE OF CONSTRUCTION OF THE PROJECT.
7. VERIFY MATERIAL (ID MARKS) OF HIGH STRENGTH BOLTS, NUTS AND WASHERS.
8. VISUALLY INSPECT ALL FIELD WELDS AND BOLTED CONNECTIONS.
9. 10% OF ALL FIELD WELDS SHALL BE TESTED BY THE MAGNETIC PARTICLE METHOD.
10. TEST ANY WELD FOR WHICH VISUAL EXAMINATION INDICATES AN UNUSUAL CONDITION AND/OR POOR QUALITY.
11. WELDING INSPECTION AND TESTING PROCEDURES SHALL BE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE AWS D1.3 LATEST EDITION.
12. TESTING AGENCY: OWNER SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTION AGENCY TO INSPECT FIELD WELDS AND HIGH-STRENGTH BOLTED CONNECTIONS.
13. BOLTED CONNECTIONS: SHOP BOLTED CONNECTIONS WILL BE TESTED AND INSPECTED ACCORDING TO RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCS) SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 AND ASTM A490 BOLTS.
14. WELDED CONNECTIONS:
- | |
|---|
| a. FIELD WELDS SHALL BE VISUALLY INSPECTED ACCORDING TO AWS D1.1. |
| b. IN ADDITION TO VISUAL INSPECTION, FIELD WELDS SHALL BE TESTED ACCORDING TO AWS D1.1 AND THE FOLLOWING: |
| i. LIQUID PENETRATE INSPECTION (ASTM E 165). |
| ii. MAGNETIC PARTIAL INSPECTION (ASTM E 709). |
| iii. ULTRASONIC INSPECTION. (ASTM E164). |
| iv. RADIOGRAPHIC INSPECTION (ASTM E 94). |
15. ALL FILLET WELDING SIZES NOT SHOWN ON THE DRAWINGS SHALL BE NOT LESS THAN SIZE AS PER AISC MANUAL LATEST EDITION.
16. ALL WELDING SHALL BE PERFORMED BY THE N.Y.C. LICENSED WELDER AND IS SUBJECT TO SPECIAL INSPECTION AS REQUIRED BY THE N.Y.C. BUILDING CODE.
17. STEEL CONNECTIONS ARE SHOWN SCHEMATICALLY. FABRICATOR IS RESPONSIBLE FOR DESIGN AND DETAILING OF CONNECTIONS IN ACCORDANCE WITH AISC MANUAL.

22. CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE ENGINEER'S SEAL AND SIGNATURE.
23. FABRICATOR AND ERECTOR SHALL HAVE AISC CERTIFICATION FOR THE TYPE AND COMPLEXITY OF BUILDING INDICATED.
24. ALL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE EITHER WELDED CONNECTIONS, OR BOLTED CONNECTIONS USING ASTM A325 BOLTS.
25. UNLESS SPECIFICALLY DETAILED OTHERWISE, SPLICES SHALL BE DESIGNED TO DEVELOP THE FULL CAPACITY OF THE MEMBER AT THE POINT OF THE SPLICE.
26. CUTS, HOLES, COPES, ETC., REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON SHOP DRAWINGS AND MADE IN THE SHOP. FILED CUTTING OR BURNING WILL NOT BE PERMITTED.
27. ALL WELDING, BOTH SHOP AND FIELD, SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS D1.1 SPECIFICATIONS. WELDING ELECTRODES SHALL CONFORM TO ASTM A233, E70XXXX. MINIMUM WELD SIZE SHALL BE 1/4 INCH FILLET UNLESS OTHERWISE NOTED. WELDED CONNECTIONS SHALL BE DESIGNED TO BE STRESSES TO LESS THAN 50% OF THEIR ALLOWABLE CAPACITIES.
28. A325 BOLTS SUBJECT TO DIRECT TENSION OR DESIGNATED AS SC (SLIP-CRITICAL) SHALL BE PRE-TENSIONED IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS AS DESCRIBED IN THE AISC "MANUAL OF STEEL CONSTRUCTION": TURN-OF-NUT TIGHTENING OR DIRECT TENSION INDICATOR TIGHTENING.
29. PERMANENT FRAMING AND FINAL CONNECTION DETAILS ARE SHOWN ON THE DRAWINGS. THE FABRICATOR AND ERECTOR ARE RESPONSIBLE FOR THE DESIGN OF TEMPORARY BRACING, GUYING AND PROCEDURES TO ERECT AND HOLD THE FRAME FOR WIND AND CONSTRUCTION LOADS.
30. COORDINATE PRIME PAINTING OF STRUCTURAL STEEL WITH ARCH. DWGS.
31. SHEAR CONNECTORS: PREPARE STEEL SURFACES AS RECOMMENDED BY MANUFACTURER OF SHEAR CONNECTORS. USE AUTOMATIC END WELDING OF HEADED-STUD SHEAR CONNECTORS ACCORDING TO AWS D1.1 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.
32. ALL SHIMS OR COMBINATIONS OF SHIMS RESULTING IN A THICKNESS GREATER THAN 1/4 INCH SHALL BE WELDED TO ONE ANOTHER AND TO THE BASE MATERIAL.

BOLTING NOTES:

1. HIGH-STRENGTH BOLTED CONNECTIONS SHALL BE INSTALLED AND CONFORM TO AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
2. ALL BOLTS SHALL HAVE HARDENED WASHERS UNDER THE TURNING ELEMENT (INCLUDING TURN OF THE NUT METHOD), UNLESS OTHERWISE NOTED.
3. ALL CONTACT SURFACES, INCLUDING SURFACES ADJACENT TO THE BOLT HEAD AND NUT, SHALL BE FREE OF SCALE, OIL, PAINT, LACQUER, AND OTHER FOREIGN MATERIAL. BURS THAT WOULD PREVENT SMOOTH SEATING OF THE CONNECTED PARTS IN THE SNUG TIGHT CONDITION SHALL BE REMOVED. CONTACT SURFACES THAT ARE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ROUGHENED BY MEANS OF HAND WIRE BRUSHING (POWER BRUSHING IS PROHIBITED) WILL BE PERMITTED.
4. ALL BOLTED CONNECTIONS SHALL MEET STRUCTURAL INTEGRITY REQUIREMENTS OF BC 2212.2 AND BC 2204

MEP EQUIPMENT AND PIPING COORDINATION NOTES:

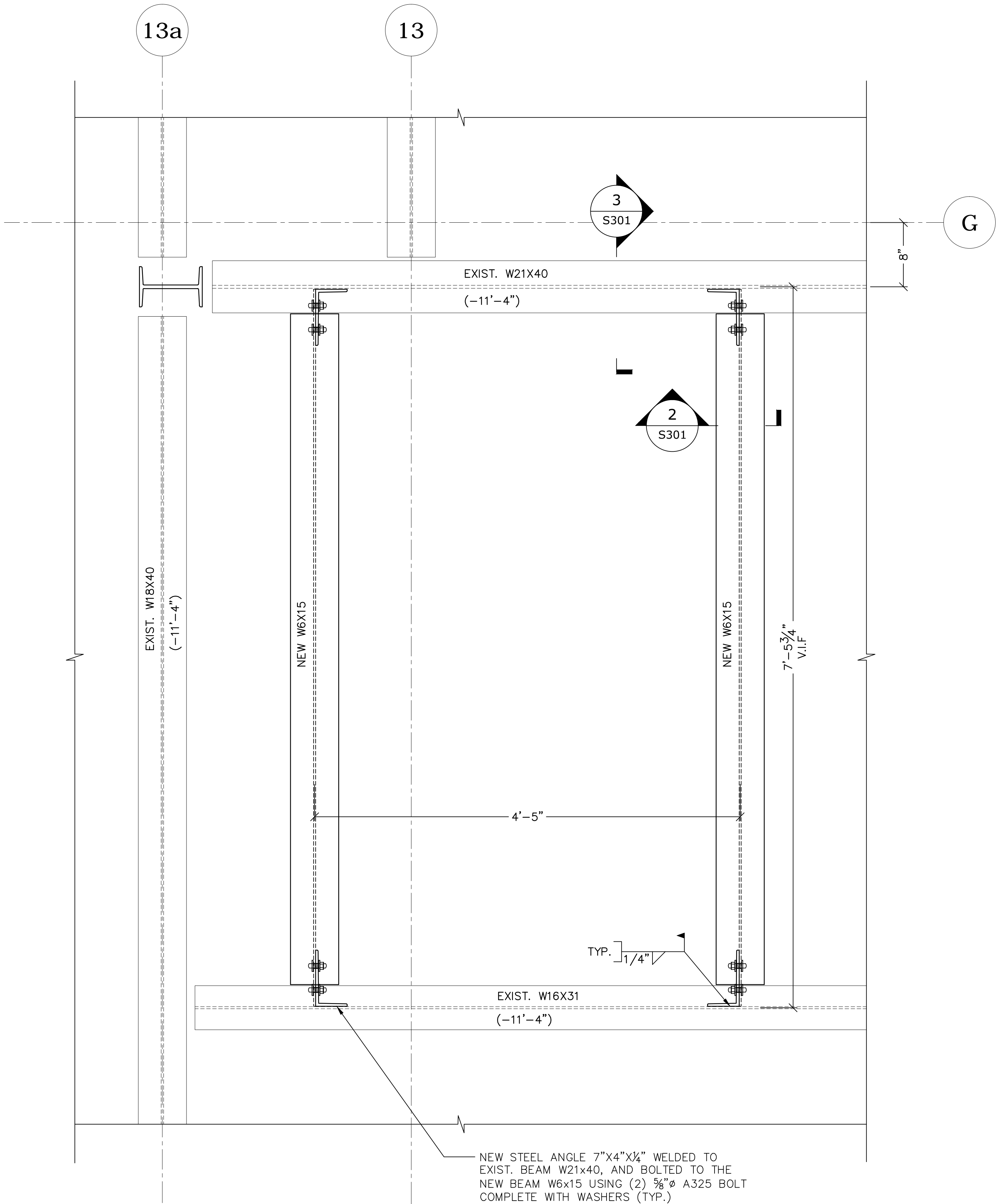
1. CONTRACTOR TO PROTECT AND SECURE EXISTING ELECTRICAL AND MECHANICAL EQUIPMENT DURING WORK.
2. IF ANY EQUIPMENT/PIPING DISCOVERED TO BE DAMAGED DUE TO THE STRUCTURAL WORK, CONTRACTOR TO BRING IT IN EOR'S ATTENTION.
3. IN THE EVENT ANY PIPING AND/OR EQUIPMENT IS DAMAGED DURING THE COURSE OF WORK, CONTRACTOR SHALL REPLACE/ REPAIR IT IN KIND, TO THE SATISFACTION OF THE EOR AND AUTHORITY WITH NO ADDITIONAL COST TO THE AUTHORITY.

22. CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE ENGINEER'S SEAL AND SIGNATURE.
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| 07/27/2021 | | BID DOCUMENT | |
| No. | Date | Revision | |
| <div><div>AFRIDI ASSOCIATES</div><div>CONSULTING ENGINEERS</div></div> | | | |
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| Drawn by: | | AZHER MALIK | |
| Checked by: | | AKBER AFRIDI, P.E. | |
| Project: PURCHASE COLLEGE STUDIO A REHABILITATION SU-072721 | | | |
| Address: 735 Anderson Hill Road Purchase NY 10577 | | | |
| Drawing Title: | | STRUCTURAL NOTES | |
| | Drawing No.: S001.00 | | |
| | Scale: AS NOTED | | |
| | Date: 06/04/2021 | | |



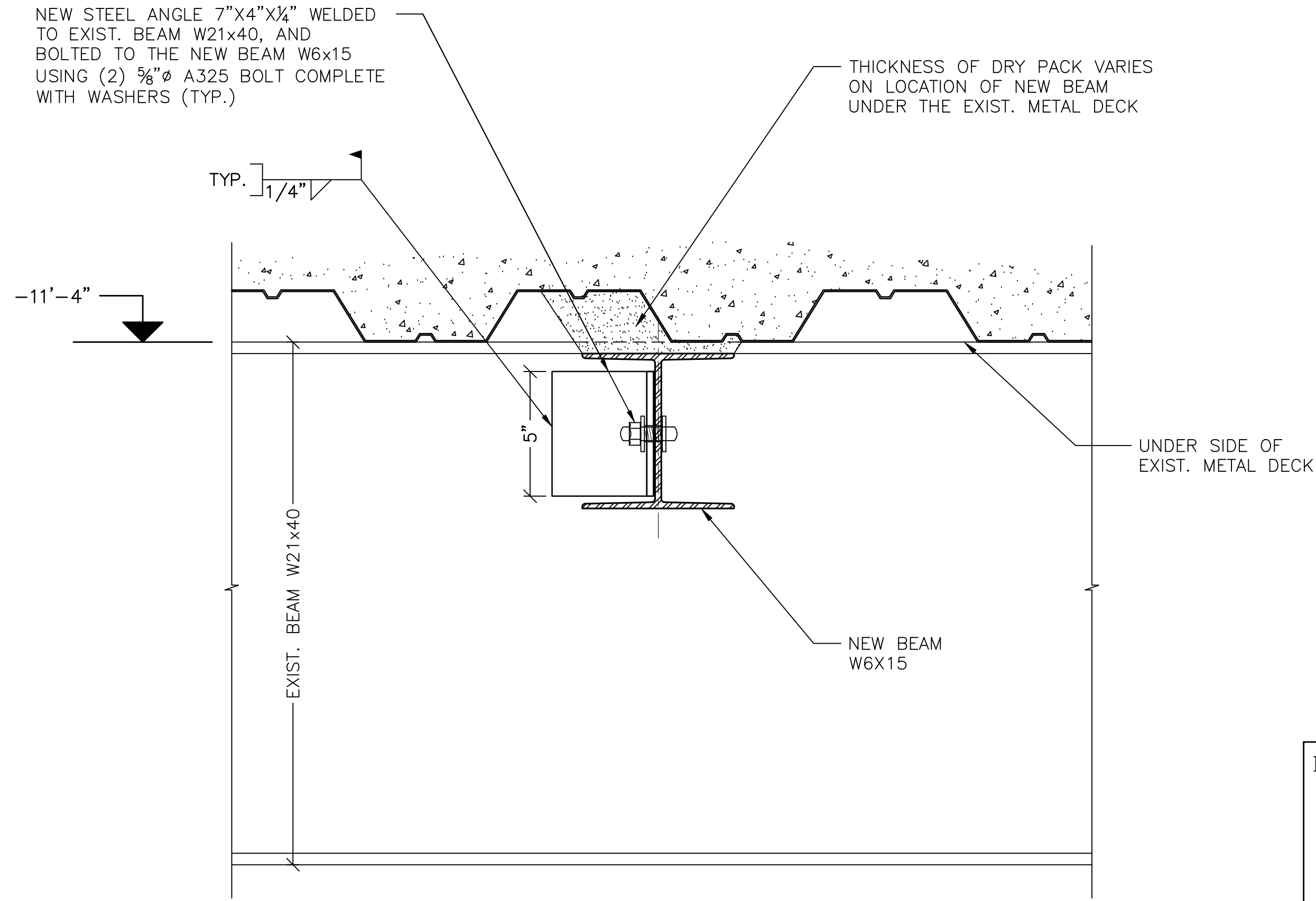
| | | | |
|---|--|--|--|
| 07/27/2021 | | BID DOCUMENT | |
| No. Date | | Revision | |
| <div style="text-align: center;"> AFRIDI ASSOCIATES CONSULTING ENGINEERS </div> | | | |
| 19 West 21st Street New York, NY 10010 Tel (212) 243-0725 Fax (212) 243-0725 | | 510 Rte. 9W, Suite 201 Melville, NY 11747 Tel (631) 465-0786 Fax (631) 465-0788 | |
| afridi associates | | | |
| Designer: | | AKBER AFRIDI, P.E. | |
| Drawn by: | | AZHER MALIK | |
| Checked by: | | AKBER AFRIDI, P.E. | |
| Project: PURCHASE COLLEGE STUDIO A REHABILITATION SU-072721 | | | |
| Address: 735 Anderson Hill Road Purchase NY 10577 | | | |
| Drawing Title: PROPOSED ADDITION TO EXIST. FRAMING PLAN | | | |
| | | Drawing No.: | |
| | | S101.00 | |
| | | Scale: AS NOTED | |
| | | Date: 06/04/2021 | |



1
S301

**ENLARGED PLAN
PROPOSED REINFORCEMENT BEAMS**

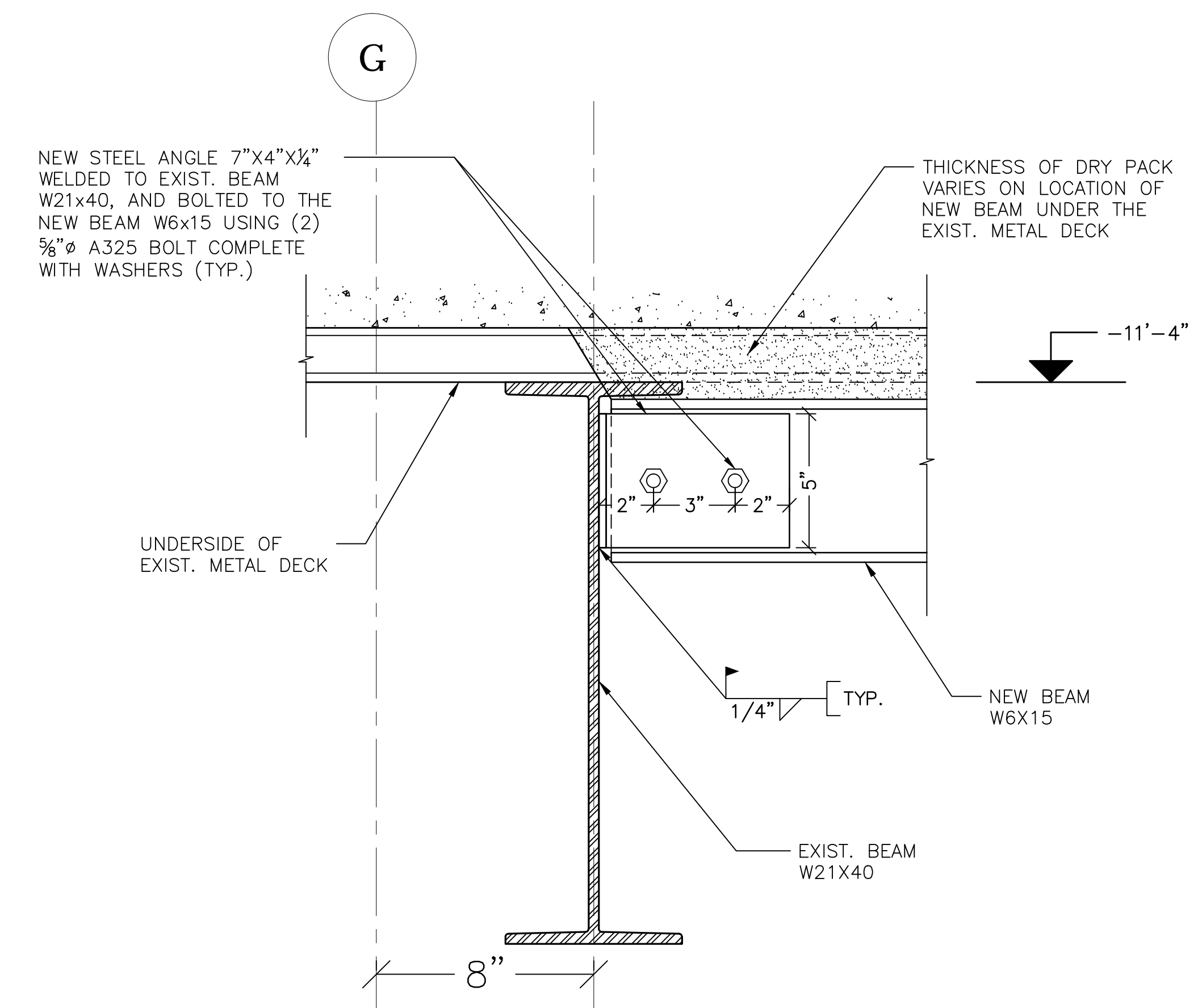
0 6" 1' 2'
SCALE: 1 1/2" = 1'-0"



2
S301

**ENLARGED CONNECTION DETAIL
THROUGH NEW BEAM (TYP.)**

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



3
S301

**ENLARGED CONNECTION DETAIL
THROUGH EXIST. BEAM (TYP.)**

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

NOTE:

1. ALL NEW STRUCTURAL STEEL, INCLUDING BEAMS, CONNECTIONS, ANGLES ETC. SHALL BE ASTM A572.
2. FOR WELDING NEW STEEL MEMBERS TO EXISTING MEMBERS, USE E7018 LOW HYDROGEN ELECTRODE. BEFORE WELDING WORK, THE CONTRACTOR SHALL MACHINE TOOL CLEAN ALL EXISTING SURFACES TO BARE METAL. FOLLOW ALL PREHEAT AND INTERPASS HEATING REQUIREMENTS.
3. ALL WELDING SHALL BE PERFORMED BY A NYC LICENSED WELDER AND IS SUBJECT TO SPECIAL INSPECTION AS REQUIRED BY THE NYC BUILDING CODE.

| | |
|---|------|
| 07/27/2021 BID DOCUMENT | |
| No. | Date |
| Revision | |
| AFRIDI ASSOCIATES CONSULTING ENGINEERS | |
| 19 West 21st Street New York, NY 10011 Tel: (212) 243-0725 Fax: (212) 243-0725 | |
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| aafriassociates.com | |
| Designer: AKBER AFRIDI, P.E. | |
| Drawn by: AZHER MALIK | |
| Checked by: AKBER AFRIDI, P.E. | |
| Project: PURCHASE COLLEGE STUDIO A REHABILITATION SU-072721 | |
| Address: 735 Anderson Hill Road Purchase NY 10577 | |
| Drawing Title: ENLARGED DETAILS | |
| Drawing No.: S301.00 | |
| Scale: AS NOTED | |
| Date: 06/04/2021 | |