

ADDENDUM NO. 1

The Architect/ Engineer issues this addendum, applicable to the above named project, to all known Contractors before receipt of proposal.

This addendum includes Item Number 1-1 thru 1-76. This addendum item shall be fully incorporated into the Bidding/Contract Documents and have the same force and effect as though originally included.

The Bidder shall acknowledge receipt of this Addendum No. 1 on the Bid Proposal Form in the place provided.

GENERAL

Item 1-1: Previous Packages

Previously submitted Auger Cast Pile Package dated October 17, 2013 is no longer relevant to these Construction Documents and shall be ignored. All work regarding auger cast piles is shown in these drawings and is to be performed as part of the shell package work.

Item 1-2: Third Party Testing and Inspections

All third-party testing and inspections required throughout the specifications shall be the responsibility of the Contractor.

SPECIFICATIONS

Item 1-3: Volume 1 Cover Sheet

The stamp for Stephen L. Clymer should be labeled as Architect and the stamp for James K. Luedke should be labeled as Structural Engineer.

Item 1-4: Volume 1 Table of Contents

Remove reference to Section 32 17 26 Cast-In-Place Detectable Warning Surfaces, it is not included in the project.

Item 1-5: Bid Proposal Form

Add attached Bid Proposal Form.

Item 1-6: Exhibit A – GENERAL CONDITIONS AND CONSTRUCTION MANAGEMENT WORKSHEET

Add attached Exhibit "A".

Item 1-7: Section 01 21 00 - ALLOWANCES

- Refer to paragraph 3.3 A Unit Price No 1 – Auger Cast Piles:. Replace “Section 31 63 13” with Sections 31 63 16 and 13 63 17”.
- Refer to paragraph 3.3 SCHEDULE OF ALLOWANCES. Replace Subparagraph 3.3 B with the following:
 - B. Allowance No. 2: Regulatory Impact and Permitting Fees Allowance: Include the sum of \$554,600.00 for regulatory impact fees not associated with permitting required by Sections 00 70 00 and 00 73 00.

Item 1-8: Section 01 22 00 – UNIT PRICES

- Refer to paragraph 3.1 F Unit Price No. 6 – Roof Paver South Building. Replace Subparagraph 1 with the following:
 1. Description: Provide additional materials and labor for installation of additional roof pavers on the South Building roof in excess of areas as indicated on the drawings and according to Section 07 53 23 "Ethylene-Propylen-Diene-Monomer (EPDM) Roofing." Cost shall include pedestals and accessories necessary for a complete installation and providing 90 mil. EPDM roofing at areas to receive addition pavers.
- Refer to paragraph 3.1 I . Change to Read “Unit Price **No. 9** – Exhaust Fan Array”

Item 1-9: Section 01 31 00 – PROJECT MANAGEMENT AND COORDINATION

Refer to paragraph 1.8 PROJECT WEBSITE. Add the following sub paragraph:

- B. Project Website will be provided by the Owner.

Item 1-10: Section 04 21 13 – BRICK MASONRY

Refer to sub paragraph 2.2 B Face Brick. Replace subparagraph 2.2 B.1 a with the following:

- a. Match Existing Brick for color blend and texture. Size shall be Modular 3-5/8 inches wide by 2-1/4 inches high by 7-5/8 inches long.

Item 1-11: Section 07 27 26 – FLUID-APPLIED MEMBRANE AIR BARRIERS

Refer to sub paragraph 2.3.A.1.a. Add BASF Wall Systems; Enershield-HP as an approved equal.

Item 1-12: Section 07 46 46 – FIBER CEMENT SIDING

- Refer to paragraph 2.2 FIBER CEMENT SIDING. Change to Read “2.2 FIBER CEMENT SIDING PANEL – NORTH BUILDING
- Refer to PART 2 – PRODUCTS. Add the following:

2.4 FIBER-CEMENT SIDING PANEL – SOUTH BUILDING

- B. General: ASTM C 1186, Type A, Grade II, fiber-cement board, noncombustible when tested according to ASTM E 136; with a flame-spread index of 25 or less when tested according to ASTM E 84.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Nichiha USA; Illumination Series or comparable product by one of the following:
 - a. Or equal if and as specifically approved by Architect by Addendum during the bidding period.
- C. Labeling: Provide fiber-cement siding that is tested and labeled according to ASTM C 1186 by a qualified testing agency acceptable to authorities having jurisdiction.
- D. Nominal Thickness: Not less than 5/8 inch (nominal).
- E. Horizontal Pattern: Boards 18” high in plain style.
 - 1. Texture: Smooth.
- F. Factory Finish: Nichiha Storm.

Item 1-13: Section 08 36 13 – SECTIONAL DOORS

Add attached Section 08 36 13 – SECTIONAL DOORS in its entirety.

Item 1-14: Section 08 41 13 – ALUMINUM FRAMED ENTRANCES AND STOREFRONTS

Refer to sub paragraph 2.4 A 1. Door Construction. Replace “2 to 2 ¼” overall thickness” with “1 ¾” overall thickness”. Delete subparagraph a. in its entirety. Thermally broken construction is not required for Entrance Door Systems.

Item 1-15: Section 09 51 13 – ACOUSTICAL PANEL CEILINGS

- Refer to sub paragraph 2.1 A 1. APC -1. Replace subparagraph 1 with the following:
 1. APC – 1 CertainTeed Ceilings, Perfoma Symphony m , 24" x 24" x 3/4", reveal corner bevel lay-in for 15/16" grid. Color: White. NRC: 0.70. CAC: 35. Light Reflectance: 0.90
- Refer to sub paragraph 2.1 A 2. APC -2. Replace subparagraph 2 with the following:
 2. APC – 2 HunterDouglas Contract Ceilings, Techstyle E , 24" x 72" x 1 1/8", for 15/16" grid. Color: White. NRC: 0.85. CAC: 17. Light Reflectance: 0.81
- Refer to sub paragraph 2.1 A 3. APC -3. Delete subparagraph 3 in its entirety.
- Refer to sub paragraph 2.1 A 4. Delete the subparagraph in its entirety, no substitutions are allowed.
- Refer to sub paragraph 2.2 A Narrow-Face Capped Double-Web Steel Suspension System: Delete 2.2 A in its entirety.
- Refer to sub paragraph 2.2 C Suspended Cloud Components: Replace subparagraph 2.2 C with the following:
 - C. Suspended Cloud Components: HunterDouglasContract, EdgeLine Trim Systems edge system for suspended ceiling system, where indicated on the drawings
 1. Channel Trim System: 6 inch profile, Color: White
 2. Blade Trim System: 6" exposed blade, Color: White

Item 1-16: Section 23 09 00 – INSTRUMENTATION AND CONTROL FOR HVAC

Refer to paragraph 2.7 DDC SENSOR AND POINT HARDWARE: Remove subparagraph F.1.b.

Item 1-17: Section 23 21 13 – HYDRONIC PIPING

Refer to paragraph 1.1 SECTION INCLUDES, subparagraph A.3: The terms "Effluent water", "Effluent condenser water", and "Campus condenser water" shall be interchangeable in the plans and specifications.

Item 1-18: Section 31 63 16 – AUGER CAST PILES – AREA "A"

Add attached Section 31 63 16 – AUGER CAST PILES – AREA "A" in its entirety.

DRAWINGS

GENERAL

Item 1-19: Sheet G0.0A – Cover Sheet – Vol. 1

Refer to the **BUILDING RESTORATION** drawings. All sheets have been renumbered and renamed. See Items 1-? & 1-? of this addendum for updated information.

Refer to the **LANDSCAPE ARCHITECTURAL** index of drawings. Add Sheet L3.01 – Site Planting Plan and L4.01 – Site Irrigation Plan to the index of drawings.

Refer to the **STRUCTURAL** Index of Drawings. Sheet S5.09 - Structural Details – Areas A,B,C,D. This sheet is being issued as new with this addendum.

CIVIL

Item 1-20: Sheet C1.01 – Utility Plan

This sheet is being reissued in its entirety with this Addendum.

Item 1-21: C1.02 – Storm Sewer Plan

This sheet is being reissued in its entirety with this Addendum.

LANDSCAPE

Item 1-22: Sheet L2.04 – Topsoil Placement Plan

This sheet is being reissued in its entirety with this addendum.

**Item 1-23: Sheet L3.01 – Site Planting Plan (For Reference Only)
Sheet L4.01 – Site Irrigation Plan (For Reference Only)**

These sheets are being issued as new with this addendum.

BUILDING RESTORATION

**Item 1-24: Sheet AR3.01 – Overall First Floor Plan
Sheet AR3.02 – Soffit Vent Plan
Sheet AR3.05 – Wall Sections
Sheet AR3.06 – Wall Sections
Sheet AR3.07 – Wall Sections
Sheet AR3.08 – Wall Section Details
Sheet AR3.09 – Plan Detail**

These sheets are being issued as new with this addendum.

**Item 1-25: Sheet AR3.03 – IAB-Exterior Elevations
Sheet AR3.04 – IAB-Exterior Elevations**

These sheets are being re-numbered and re-issued in its entirety with this addendum.

STRUCTURE

Item 1-26: Sheet S3.01 – Foundation Details – Areas B, C & D

Reference detail 2: add 8” deep (minimum) concrete cap on top of existing foundations below masonry wall arches. Top of caps shall be flush with finish floor. Provide dowels and reinforcement as shown in attached updated sheet. Similar changes shall also apply to detail 5/S3.01.

Item 1-27: Sheet S4.03 – Framing Details – Areas B, C & D

Add details 14 & 15, see attached updated sheet. Details shall apply to existing lintels that are designated to be replaced on sheets AR3.02 & AR3.03

Item 1-28: Sheet S5.01 – Structural Details – Area A

This sheet is being reissued in its entirety with this addendum.

Item 1-29: Sheet S5.03 – Structural Details – Area A

Refer to Detail 9. The length of the headed studs for the typical embed detail at steel beam is 6” for all the studs shown.

Item 1-30: Sheet S5.09 – Structural Details – Areas A,B,C,D

Refer to Detail 1. This detail shows the support of brick above the doors at north end at grids F.7 and F.8

ARCHITECTURE

Item 1-31: All Sheets

1. Refer to all notes described as “Treated Wood Blocking”. Unless wood blocking is in direct contact with the ground, concrete, or exposed to the exterior, replace with “Non-Treated Dimensional Lumber”.

Item 1-32: Sheet A1.01 – Lower Level Floor Plan & Reflected Ceiling Plan – Area A

See revised sheet for updated ceiling at corridor N0CR2 and updated note at underside of Curtainwall at Skywalk Soffit.

Item 1-33: Sheet A1.19 – Skywalk Floor Plan & Reflected Ceiling Plan – Area A

See revised sheet for updated Ceiling at skywalk and vestibule. See revised sheet for updated Curtainwall frame type reference tags and new detail reference tag.

Item 1-34: Sheet A1.21 Second Floor Plan – Area A

Remove detail reference tag 8/A7.01 at column grid E.8, 0.7. Curtainwall reference tag “CW-13” on South side of building at column grid E, 0.1 shall be replaced with “CW-18”.

**Item 1-35: Sheet A1.22 – Second Floor Plan – Area B
Sheet A1.23 – Second Floor Plan – Area C
Sheet A1.24 – Second Floor Plan – Area D**

Provide addition 1'-0" wide strip of 90 mil EPDM membrane directly centered under bottom edge of 2nd floor shed roof.

Item 1-36: Sheet A1.25 – Second Floor Reflected Ceiling Plan – Area A

See revised sheet for updated Ceiling at corridor N2CR1 and Ceiling type at exterior soffit.

Item 1-37: Sheet A1.31 – Third Floor Plan – Area A

See revised sheet for updated Curtainwall frame type reference tags and dimensions at North Stair N3ST1.

Item 1-38: Sheet A1.32 - Third Floor Reflected Ceiling Plan – Area A

See revised sheet for updated Ceiling at corridor N3CR1.

Item 1-39: Sheet A1.41 – Fourth Floor Plan – Area A

See revised sheet for updated Curtainwall frame type reference tags and dimensions at North Stair N4ST1.

Item 1-40: Sheet A1.42 – Fourth Floor Reflected Ceiling Plan – Area A

See revised sheet for updated Ceiling at corridor N4CR1.

Item 1-41: Sheet A1.51 - Mechanical Penthouse Floor Plan – Area A

Provide a 2 hour fire rated lid at the penthouse floor at mechanical shaft at column grid F.7, 0.3 & H.2, 0.1.

Item 1-42: Sheet A2.01- Exterior Building Elevations – Area A

See revised sheet for updated Curtainwall frame type reference tags. A portion of the Second Floor Addition at IAB is now shown in the East Elevation.

Item 1-43: Sheet A2.02 – Exterior Building Elevations – Area A

- See revised sheet for updated Curtainwall frame type reference tags. A portion of the Second Floor Addition at IAB is now shown in the East Elevation.
- See revised sheet for updated Curtainwall frame type reference tags.

Item 1-44: Sheet A2.11 - Skywalk Exterior Building Elevations – Area A

See revised sheet for updated Curtainwall frame type reference tags and revised height of wall at Vestibule K1.5CR1.

Item 1-45: A3.11 - Skywalk Cross Sections

See revised sheet for revised height of wall at Vestibule K1.5CR1 and revised section #2.

Item 1-46: Sheet A4.11 - Skywalk Wall Sections

See revised sheet for updated Curtainwall detail #5 and revised ceiling details.

Item 1-47: Sheet A4.12 - Skywalk Wall Sections

See revised sheet for updated Curtainwall detail #3 and delete note "CEMENT FIBER BOARD" on roof side of parapet wall.

Item 1-48: Sheet A5.01 - Enlarged North Stair Floor Plans

See revised sheet for added stair tread note "PRECAST EPOXY TERRAZZO TREADS, SEE FINISH SCHED. FOR COLOR" and associated stair details #8&9.

Item 1-49: Sheet A5.01 – Enlarged North Stair Floor Plans

Added detail view of wood panel termination at glass guardrail (View #8)

Item 1-50: Sheet A5.03 - North Stair Sections

See revised sheet for added stair tread note "STL. STAIR W/ PRECAST EPOXY TERR. TREADS" and new detail reference tag.

Item 1-51: Sheet A6.02 - Exterior Frame Types – Area A

See revised sheet for updated Curtainwall frame types.

Item 1-52: Sheet A6.03 - Exterior Frame Types – Area A

See revised sheet for updated Curtainwall frame types and new alum. door head detail #3.

Item 1-53: Sheet A6.04 - Exterior Skywalk Exterior Frame Types – Area A

See revised sheet for updated Curtainwall frame types.

Item 1-54: Sheet A6.06 – Enlarged Restroom Plans – Area A

Reference Toilet Accessory Schedule. Accessory "SD" manufacturer and model number shall be replaced with: American Specialties, Inc. #0332; Accessory "TTD-1" manufacturer and model number shall be replaced with: American Specialties, Inc. #20030; Add Coat Hook ("CH") at the back of all toilet partition doors- manufacturer and model number: Bobrick #B-212.

Item 1-55: Sheet A7.02 - Plan Details

Reference detail #4. Delete note "CONTINUE VAPOR BARRIER ABOVE AND BELOW SKYWALK" and replace with "CONTINUE FLUID APPLIED AIR BARRIER ABOVE AND BELOW SKYWALK".

Item 1-56: Sheet A8.05 – Wall Section Details

Refer to Section Details 1 & 2. Reverse the slope of the two piece 24ga. cap flashing so moisture falls on the inside perimeter of the building.

FINISH

Item 1-57: Sheet F1.00 – Finish Materials List & Room Finish Schedule

Refer to the Finish Materials Legend and make the follow changes:

1. Omit APC-3 designation from the Acoustical Panel Ceiling list.
2. Revise APC-1 and APC-2 designations in the Acoustical Panel Ceiling list per the following;
APC-1 = Certainteed, #122-IOF-1 Performa Symphony m, 24"x24"x3/4" WHT
APC-2 = Hunter Douglas, Techstyle E, 24"x72"x1 1/8" WHT

Refer to the Room Finish Schedule and make the follow changes:

1. Add CPT-1 floor finish to Elevator N1EL2.
2. Change K1.5 Skywalk Ceiling from APC-3 to APC-2/PT-2.

Item 1-58: Sheets F1.02 thru F1.08 Finish Plans

1. Elevators N0EL1 thru N4EL1 and N1EL2 thru N5EL2 shall include CPT-1 as floor finish.
2. Change Skywalk K1.5 APC-3 ceiling designation to APC-1 and PT-2.

MECHANICAL

Item 1-59: Sheet PM1.03 – First Floor Mechanical Room Plan

Switch the supply and return Effluent Condenser water piping entering the building to the first floor mechanical room.

Item 1-60: Sheet PM3.01 – Mechanical Site Plan

Refer to the Mechanical Site Plan and make the following changes:

1. All sewer invert elevations for the North Building shall be 90'-0".
2. Switch the supply and return for the Campus Condenser (effluent) water piping entering the building.
3. Rotate grease interceptor INT-1 90 degrees and adjust inlets and outlets accordingly.

PLUMBING

Item 1-61: Sheet P1.02 – Below Floor Plumbing Plan – Area B

Switch the supply and return Effluent Condenser water piping entering the building to the first floor mechanical room.

Item 1-62: Sheet P1.02 – Below Floor Plumbing Plan – Area C

Switch the supply and return Effluent Condenser water piping entering the building to the first floor mechanical room.

Item 1-63: Sheet P2.03 – Natural Gas and Specialty Gas Piping Schematics and Controls

Add liquid separator upstream of VP-1. Model shall be Busch ClearTrap CLS-200 or equivalent.

Item 1-64: Sheet P3.01 – Plumbing Details

Added plumbing details for site specific equipment. Refer to Grease Interceptor Detail #6 and Neutralization Tank Detail #7.

Item 1-65: Sheet P4.01 – Plumbing Schedules

Add liquid separator upstream of VP-1. Model shall be Busch ClearTrap CLS-200 or equivalent.

ELECTRICAL

Item 1-66: Sheet E0.01 – Electrical Site Utilities Plan

Site lighting and additional details have been modified. This sheet is being re-issued in its entirety as a part of this addendum. See re-issued sheet E0.01 for changes.

Item 1-67: Sheet E1.01 – Lower Level Lighting Plan

Adjust layout of Type 'T' fixtures under Skywalk, switch Type 'V' fixture to Type 'D' fixture in Corridor N0CR2 and adjust layout. See re-issued sheet E1.01 for changes.

Item 1-68: Sheet E1.13 – First Floor Lighting Plan – Area 'C'

Add (1) Type 'Q' fixture centered over overhead door on north wall between column lines ZJ and ZK and (1) Type 'Q' fixture centered over overhead door on west wall just north of column line Z6. Keyed notes 4 and 5 apply to both fixtures, circuit fixtures to '1HS1-13', and control via lighting control Lighting Control Scenario Designation 'K'. See the Light Fixture Schedule for additional information.

Item 1-69: Sheet E1.14 – First Floor Lighting Plan – Area 'D'

Add (1) Type 'Q' fixture centered over overhead door on west wall just north of column line Z8. Keyed notes 4 and 5 apply to fixture, circuit fixture to '1HS1-13', and control via lighting control Lighting Control Scenario Designation 'K'. See the Light Fixture Schedule for additional information.

Item 1-70: Sheet E1.21 – Second Floor Lighting Plan – Area ‘A’

Reference Second Floor Lighting Plan – Area ‘A’: Switch Type ‘V’ fixture to Type ‘D’ fixture in Corridor N2CR1 and adjust layout.

Reference Skywalk Lighting Plan: Switch Type ‘V’ fixture to Type ‘D’ fixture in Corridor N1.5CR3 and adjust layout. Adjust Type ‘M’ fixture layout to match new ceiling layout in Skywalk. See re-issued sheet E1.21 for changes.

Item 1-71: Sheet E1.31 – Third Floor Lighting Plan – Area ‘A’

Switch Type ‘V’ fixture to Type ‘D’ fixture in Corridor N3CR1 and adjust layout. See re-issued sheet E1.31 for changes.

Item 1-72: Sheet E1.41 – Fourth Floor Lighting Plan – Area ‘A’

Switch Type ‘V’ fixture to Type ‘D’ fixture in Corridor N4CR1 and adjust layout. See re-issued sheet E1.41 for changes.

Item 1-73: Sheet E4.01 – Electrical Schedules

Change fixture type ‘T’ to Zumtobel, catalog no. BR4DICLED-16W-K40-MS45-CS-W, fixture remarks added to schedule. Fixture type ‘Q’ is to be wall mounted so that the bottom of fixture is at +9’-4” above finish grade, unless otherwise noted. See re-issued sheet E4.01 for changes.

Item 1-74: Sheet E4.02 – Electrical Schedules

Reference Panelboard Schedule ‘1HS1’: Circuit #13 to serve LTG: EXTERIOR OVERHEAD DOORS, with a load of 90VA.

Item 1-75: Sheet E6.03 – Electrical Details

Reference Access Control Connection Diagram: In ‘Area A, Skywalk’ change door numbers K1.5CR1.3, K1.5CR1.2, and K1.5CR1.1 to 200.6, 200.5, and 200.4.

VOLUME 3 TENANT FINISH CONCEPT PLANS

**Item 1-76: Sheet G0.00C – Title Sheet & Drawing Index
Sheet TF1.11 – First Floor Tenant Finish Concept Plan
Sheet TF1.21 – Second Floor Tenant Finish Concept Plan
Sheet TF1.31 – Third Floor Tenant Finish Concept Plan**

These sheets are being issued as new with this addendum as part of their own package and labeled as (For Information Only).

END OF ADDENDUM NO. 1

BID PROPOSAL

CONTRACTOR:

DATE:

TO: TOMATO CLUB LLC
728 Q Street, Suite C
Lincoln, Nebraska 68508

BID SECTION #1

Core and Shell

BID SECTION #2

Tenant Improvement

RE: NIC - Life Science Collaboration
Nebraska Innovation Campus
Lincoln, Nebraska

The undersigned having carefully examined the drawings, the Instructions to Bidders, the Contract Form, Supplementary General Conditions, and Specifications pertaining to the above-referenced Project; having familiarized myself with the site and job conditions; and having visited the site and observed and accepted all existing conditions, hereby proposes and agrees to furnish all labor, materials, equipment, plant, transportation, services, sales taxes, inspection fees, permits, testing, and other costs necessary to complete the construction of the Work for the above Project in strict conformity with said Documents and any Work specified in Addenda for the lump-sum cost and terms as described below.

I acknowledge receipt of Addenda: _____

| BID SECTION 1: FIXED LUMP SUM BASE BID (Core and Shell) | | |
|--|----|---|
| | | NIC - Life Science Collaboration |
| Cost for all building construction and associated improvements for the NIC Life Science Collaboration project. | | \$ |
| Contingency to be included as part of Lump Sum Base Bid noted above. | 3% | \$ |

| BID SECTION 2: CM FEE PROPOSAL (Tenant Improvements) | | |
|--|--|---|
| Estimated Tenant Improvement Cost of 11,500,000 | | TI - UNL FOOD SCIENCE & TECHNOLOGY |
| Fixed GC Fee per Exhibit A for all tenant improvement construction and associated finishes for the UNL Food Science and Technology based on actual cost from accepted GMP: | 2.5% | |
| Job Services Total Fixed Fee per Exhibit A for all tenant improvement construction and associated finishes for the UNL Food Science and Technology based on actual cost from accepted GMP: | % | \$ |
| Construction Manager's Fee for all tenant improvement construction and associated finishes for the UNL Food Science and Technology : | % | \$ |
| TOTAL FIXED BASE BID | (Aggregate amount to equal the sum of each bid section 1 and 2) | \$ - |

TIME OF COMPLETION

The time period required to complete the work expressed in the number of calendar days from the time of Notice to Proceed (effective date) is as indicated. The dates established below are based on the assumption that the Contract for the entire project is awarded within no more than 60-days of the receipt of bids. Any Notice to Proceed will include authorization to proceed on Bid Section 1.

| BID SECTION 1: TIME COMPLETION | | | |
|---------------------------------------|--|-----------|-----------|
| 1 | If this proposal is accepted, the undersigned agrees to complete building core and shell construction for the NIC LS Collaboration within the number of calendar days indicated from the date of receipt of Notice to Proceed and shall not exceed March 1, 2015. | | Days |
| 2 | Contractor agrees to pay liquidated damages in the amount of \$500.00 per day for each calendar day that work is not completed for portion of work described in the Core and Shell Scope. | \$ 500.00 | \$ 500.00 |
| 3 | Time required to complete Total Project Completion including site and utility work after given Notice to Proceed and shall not exceed June 1, 2015. | | Days |

| BID SECTION 2: TIME COMPLETION | | | |
|---------------------------------------|--|-------------|-------------|
| 1 | If this proposal is accepted, the undersigned agrees to complete building tenant improvement construction for the UNL Food Science and Technology within the number of calendar days indicated from the date of receipt of Notice to Proceed and shall not exceed June 1, 2015. | | Days |
| 2 | Contractor agrees to pay liquidated damages in the amount of \$2,500.00 per day for each calendar day that work is not substantially complete beyond the indicated time of completion of the each portion of the work. | \$ 2,500.00 | \$ 2,500.00 |

BID PROPOSAL

ALTERNATES - BID SECTION #1

- 1 Bidder acknowledges that an alternate is an amount proposed by Contractor and stated on the Bid Form that will be added to or deducted from Base Bid Amount if Owner decides to accept a corresponding change in either Scope of Work or in products, materials, equipment, systems, or installation methods described in Contract Documents.
- 2 Bidder acknowledges its responsibility to coordinate related work and modify or adjust adjacent work as required so that alternate is complete and fully integrated. Any additional cost or savings associated with adjustments or modifications in adjoining work are included in the respective alternate. Alternate also includes any miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- 3 Owner shall generally notify Bidder of selected alternates in conjunction with the award of the contract. Notwithstanding, Bidder acknowledges that Owner has the right to defer a decision on any alternate until after an award at no additional cost to the Owner provided the final decision thereof is made in a timely manner as to not affect the normal sequencing of the Work.

| Description | LS Collaboration |
|--|------------------|
| 1 Interior Floor Finishes: Base Bid - Epoxy Terrazzo as specified in Section 09 66 23. Deduct Alternate: Provide Porcelain Ceramic Tile as specified in Section 09 30 00 in lieu of Epoxy Terrazzo. | \$ |
| 2 Gypsum Drywall at Interior Face of Exterior Wall: Base Bid - No gypsum drywall at interior wall face. Add Alternate: Provide gypsum drywall on interior face of exterior wall as specified in Section 09 29 00 "Gypsum Drywall" | \$ |
| 3 Grade Beams South Building: Base Bid - Provide all grade beams for future masonry walls as indicated on Sheets S1.12, S1.13, and S1.14. Deduct Alternate: Delete grade beams where indicated on Sheets S1.12, S1.13, and S1.14. | \$ |
| 4A Shell Space Lighting First Level: Base Bid - Provide and install lighting as indicated on the Electrical Lighting Plans. Deduct Alternate: Delete fixtures, associated conduit and conductors for lighting in unfinished, shell spaces. | \$ |
| 4B Shell Space Lighting Second Level: Base Bid - Provide and install lighting as indicated on the Electrical Lighting Plans. Deduct Alternate: Delete fixtures, associated conduit and conductors for lighting in unfinished, shell spaces. | \$ |
| 4C Shell Space Lighting Third Level: Base Bid - Provide and install lighting as indicated on the Electrical Lighting Plans. Deduct Alternate: Delete fixtures, associated conduit and conductors for lighting in unfinished, shell spaces. | \$ |
| 4D Shell Space Lighting Fourth Level: Base Bid - Provide and install lighting as indicated on the Electrical Lighting Plans. Deduct Alternate: Delete fixtures, associated conduit and conductors for lighting in unfinished, shell spaces. | \$ |
| 5A Unit Heaters First Level: Base Bid - Provide and install unit heaters and associated piping as indicated on the Mechanical Plans. Deduct Alternate: Delete unit heaters, associated piping and installation in unfinished, shell spaces. | \$ |
| 5B Unit Heaters Second Level: Base Bid - Provide and install unit heaters and associated piping as indicated on the Mechanical Plans. Deduct Alternate: Delete unit heaters, associated piping and installation in unfinished, shell spaces. | \$ |
| 5C Unit Heaters Third Level: Base Bid - Provide and install unit heaters and associated piping as indicated on the Mechanical Plans. Deduct Alternate: Delete unit heaters, associated piping and installation in unfinished, shell spaces. | \$ |
| 5D Unit Heaters Fourth Level: Base Bid - Provide and install unit heaters and associated piping as indicated on the Mechanical Plans. Deduct Alternate: Delete unit heaters, associated piping and installation in unfinished, shell spaces. | \$ |
| 6 Fire Suppression System: Base Bid - Design, provide and install risers and mains as indicated on the Fire Protection Plans and as specified in Division 21. Add Alternate: Provide complete system installation, based upon schematic plans of future tenant improvements as indicated on the Fire Protection drawings. | \$ |

ALLOWANCES - BID SECTION #1

- 1 Where allowances are called for, Bidder has included the amount in its Base Bid.
- 2 Bidder's costs for unloading, handling, labor, installation, overhead, profit, and other expenses contemplated for the original allowance shall be included in the Base Bid and not in the allowance.
- 3 Bidder acknowledges that the Contract Sum will be adjusted by the actual cost of the allowance without any application of or adjustment to overhead, profit, general conditions, or other expenses associated therewith for handling and labor.
- 4 Bidder acknowledges that the Contract Sum will be adjusted for unit-cost type allowances based solely on the difference between the actual unit purchase amount and the unit allowance multiplied by the final measure or count of work-in-place with reasonable adjustment, where applicable, for cutting losses, tolerances, mixing wastes, and similar margins. No mark-up shall be included with respect to allowance costs and change order prices.

| Cost of each item to be included in Base Bid. | LS Collaboration |
|--|------------------|
| 1 Testing and Inspection Allowance: For Field Quality Control Testing as specified in Section 07 27 26 "Fluid-applied Membrane Air Barriers | \$20,000 |
| 2 Regulatory Impact Fees Allowance: For regulatory impact fees not associated with permitting required by Sections 00 70 00 and 00 73 00 | \$554,600 |
| 3 Landscape Planting and Irrigation: For landscape planting and irrigation system to be specified. | \$150,000 |
| 4 Terrazzo Logo: Material and Installation associated with building logo to be incorporated into the main level terrazzo floor. | \$10,000 |

BID PROPOSAL

UNIT PRICES - BID SECTION #1

- 1 Bidder acknowledges that unit pricing may be used as the basis for adjusting the Contract Sum on account of changes in the scope of the work. The unit amount shown multiplied by the in-place quantity shall be the method by which any adjustment will be calculated. Unit price adjustments may be either a deduction from or an addition to the Base Bid price without any additional mark-up for overhead and profit or General Conditions.
- 2 Bidder acknowledges that unit pricing will be in effect for the duration of the construction contract time, but will not be effective for work necessary to be performed after normal construction periods unless agreed to otherwise.

| | | | |
|---|---|----|-------------------|
| 1 | Auger Cast Piles: Add or deduct length of auger cast piles to reach required depth into Dakota Limestone according to Article 1.3 of Section 31 63 13 Auger Cast Piles and the "Geotechnical Engineering Report" in Section 03 31 32. | \$ | Per LF |
| 2 | Imported Soils for Backfill: Provide, place, and compact additional backfill materials required in addition to the fill as indicated in the drawings and according to Section 31 20 00 "Earth Moving." | \$ | Per CY |
| 3 | Imported Soils for Backfill: Provide, place, and compact additional backfill materials borrowed from site and as directed by the Owner required in addition to the fill as indicated in the drawings and according to Section 31 20 00 "Earth Moving." | \$ | Per CY |
| 4 | Masonry Restoration - Tuckpointing: Provide additional materials and labor for tuckpointing masonry on South Building required in addition to quantities as indicated on the drawings and according to Section 04 05 13 "Masonry Restoration Mortaring." | \$ | Per SF |
| 5 | Masonry Restoration - Brick Replacement: Provide additional materials and labor for replacing masonry on South Building required in addition to quantities as indicated on the drawings and according to Section 04 10 20 "Masonry Restoration and Cleaning." | \$ | Per SF |
| 6 | Roof Pavers South Building: Provide additional materials and labor for installation of additional roof pavers on the South Building roof in excess of areas as indicated on the drawings and according to Section 04 05 13 "Masonry Restoration Mortaring." Cost shall include pedestals and accessories necessary for a complete installation and providing 90 mil. EPDM roofing at areas to receive addition pavers. | \$ | Per SF |
| 7 | Air Handling Units 1, 2, 3 & 4: Provide materials and labor for mechanical air-handling units as indicated on the drawings and in accordance with Section 23 73 13 Air Handling Units. | \$ | Lump Sum per Unit |
| 8 | Air Handling Units 5 & 6: Provide materials and labor for mechanical air-handling units as indicated on the drawings and in accordance with Section 23 73 13 Air Handling Units. | \$ | Lump Sum per Unit |
| 9 | Exhaust Fan Array: Provide materials and labor for mechanical air-handling units as indicated on the drawings and in accordance with Section 23 34 13 High Plume Fans. | \$ | Lump Sum |

PERFORMANCE BOND - BID SECTION #1

The undersigned agrees if awarded the Contract and, if so directed by Owner, to deliver to the Owner within 10 calendar days after signing the Contract, a satisfactory Performance and 100% Material and Labor Payment Bond on a form and with a bonding company acceptable to Owner. The cost of such Bond will be added to the Lump Sum Base Price.

| | | |
|---|---|---|
| 1 | The cost of the bonds described above will be equal to: (express as a % of the Contract Sum) | % |
| 2 | Adjustments to the above amount based on changes in scope (indicate % if different from the % above): | % |

CHANGES IN THE WORK - BID SECTION #1

The undersigned agrees if work is added or deducted by written order of the Owner and such work is not called out as an alternate or a unit price, the cost of such changes shall be determined in accordance with the provisions of the Supplementary General Conditions and the percentage mark-up added shall be as follows:

| | | |
|---|---|---|
| 1 | For work not scheduled, performed by this contractor, mark-up on account of all General Conditions and contractor profit and overhead on net-direct cost of materials and labor will be as indicated. Material, labor, and equipment rates to be as described in A201 General Conditions of the Contract, as modified. | % |
| 2 | For work not scheduled, performed by any subcontractor, mark-up for contractor on account of all General Conditions, profit and overhead on subcontractor costs will be as indicated. Material, labor, equipment rates, and subcontractor mark-up to be as described in A201 General Conditions of the Contract, as modified. | % |
| 3 | For work deleted, general contractor's mark-up and/or credit on account of general supervision, overhead and other general conditions shall be as indicated. Insert zero if none or provide the % of additional credit to be added to the actual value of the work deleted. | % |

BID PROPOSAL

BID PROPOSALS AND CONTRACT

- 1 The undersigned understands that the preparation and submission of this Proposal and other quotations herein contained does not obligate the Owner or Architect in any way; and that the Owner assumes no obligation to enter into a contract for the work.
- 2 If awarded a contract or contracts for the work, the undersigned agrees to execute the Contract Agreement on the form provided herein with the appropriate blank spaces filled in, in accordance with the above-stated compensation.
- 3 This Bid Proposal is a firm offer continuing for sixty (60) days after the date set for the opening of bids. If the undersigned is notified of the acceptance of this Proposal within the 60 day period, he agrees to execute the Construction Contract for the above-stated compensation.
- 4 A 5% Bid Bond is included herewith. If Owner notifies contractor of its intent to award the work and contractor fails to enter into the Contract Agreement in substantially the form provided, or fails to provide Performance and 100% Labor and Materials Payment Bonds (if requested by Owner), contractor shall forfeit the amount of its Bid Bond.

SEPARATE CONTRACTS

- 1 Bidder acknowledges that Owner has the right to let other contracts and to employ other contractors in connection with this project including the construction of tenant improvements. Bidder shall afford such other contractors reasonable opportunity for the storage of materials and equipment, and at such time that does not materially interfere with Bidder's work, to commence construction of their work. Bidder shall properly coordinate the work of separate contractors with Bidder's work and allow connection to its facilities.
- 2 Bidder recognizes that plans for tenant improvements or Owner-provided work will be issued as separate bid packages. It is the Owner's intent, but not obligation, to allow the successful Bidder to submit a bid proposal on all such work, recognizing that, in some instances, tenants may perform their own tenant work.

THE UNDERSIGNED CERTIFIES

- 1 That he has reviewed and understands the drawings, specifications, scope of the work, and sample contracts provided relating to this Project.
- 2 That he has the equipment, technical ability, personnel, and facilities to construct the Project in accordance with the drawings and specifications.
- 3 That he has inspected the site and familiarized himself with the requirements of Lincoln City and other municipal agencies having jurisdiction.
- 4 That he has qualified each of his subcontractors and materials suppliers and determined that such persons have the equipment, technical ability, personnel, and facilities to perform their work in accordance with the Contract Documents; and that each subcontractor has the financial capacity to fulfil all aspects of the work.

FIRM NAME: _____

SIGNED BY: _____

TITLE: _____

DATE: _____

ADDRESS: _____

TELEPHONE NO: _____

LICENSE NO: _____

BONDING AGENT: _____

PHONE NUMBER: _____

STATE OF INCORPORATION: _____



GENERAL CONDITIONS & CONSTRUCTION MANAGEMENT FEE WORKSHEET TENANT IMPROVEMENT PACKAGE - UNL Food Science and Technology

Estimated Cost: \$11,500,000

GENERAL CONDITIONS

FIXED fee to include the following:

Staffing

- Project Executive
- Project Manager
- Superintendent
- Assistant Superintendent
- Project Engineer
- Safety Coordinator
- Project Coordinator/Accountant
- Other Staff not listed above

Site Requirements

- Mobilization / Demobilization
- Remobilization allowance
- Office trailer and Setup
- Office Supplies
- Temp Office and Office Equipment
- Field Drinking Water and Coolers
- Mail & Overnight Expense
- Project Photos
- Project Sign
- Temp Toilets
- Temp Power
- Temp Power Setup/Facilities
- Temp Water and Setup
- Temp Communications (telephone/internet)

Safety:

- Safety Inspections
- Safety/First Aid
- Fire Extinguisher
- Eyewash Station
- Rebar Guards
- Fall Protection
- Safety Sign
- General PPE
- Guardrails
- Safety Maintenance
- Hole Covers
- Railings
- Misc. Signage
- Safety Lunches
- Misc. Safety

- Permits and Impections
- Jobsite Signage
- Temp Barricades/Fencing
- Temp Walkways / Partitions
- Traffic Control and Barricades
- Plan Reproduction and Record Drawings
- Record Drawings
- Garbage Services/Dumpsters
- Site Cleanup / Maintenance
- Snow Removal to complete work
- Dewatering
- Weather Protection
- Temp Heaters
- Temp Heater Fuel and Supplies
- Weather Protection Materials
- Weather Protection labor
- Progress Cleaning
- Wash Windows
- Final Cleanup

Miscellaneous

- General Hoisting:
 - Forklift w/ Operator
 - Bobcat w/ Operator
- Superintendent Vehicle
- Fuel, Oil, Maintenance
- Warranty
- Finish Work Protection
- Survey and Layout
- Security
- SWPP Facilities & Maintenance

| | |
|-------------|--|
| 2.5% | TOTAL PERCENT: GENERAL CONDITIONS (accounts for all items noted above) |
|-------------|--|

JOB SERVICES BASED ON BUDGETED COST OF WORK OF \$11.5M

\$ **CMR Performance and Payment Bond**
% Percent of Cost

\$ **General Liability**
% Percent of Cost

\$ **Builder's Risk Insurance**
% Percent of Cost

TOTAL PERCENT: JOB SERVICES

CONSTRUCTION MANAGER'S FEE

TOTAL PERCENT: CONSTRUCTION MANAGER FEE
(to also be applied to all change orders)

SECTION 08 36 13 - SECTIONAL DOORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes electrically operated sectional doors.
- B. Related Requirements:
 - 1. Section 05 50 00 "Metal Fabrications" for miscellaneous steel supports.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type and size of sectional door and accessory.
 - 1. Include construction details, material descriptions, dimensions of individual components, profile door sections, and finishes.
 - 2. Include rated capacities, operating characteristics, electrical characteristics, and furnished accessories.
- B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data.
 - 1. Include plans, elevations, sections, and mounting details.
 - 2. Include details of equipment assemblies. Indicate dimensions, required clearances, method of field assembly, components, and location and size of each field connection.
 - 3. Include points of attachment and their corresponding static and dynamic loads imposed on structure.
 - 4. Include diagrams for power, signal, and control wiring.
- C. Samples for Initial Selection: For units with factory-applied finishes.
 - 1. Include Samples of accessories involving color selection.
- D. Samples for Verification: For each type of exposed finish on the following components, in manufacturer's standard sizes:
 - 1. Frame for paneled door sections; of each width of stile and rail required.
 - 2. Panel for raised-panel door sections; not smaller than required to show raised-panel profile.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Sample Warranties: For special warranties.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For sectional doors to include in maintenance manuals.

1.6 QUALITY ASSURANCE

- A. Wood Sectional Door Manufacturer Qualifications: A qualified manufacturer that is certified for chain of custody by an FSC-accredited certification body.
- B. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer for both installation and maintenance of units required for this Project.
- C. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and ICC A117.1.

1.7 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of sectional doors that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including, but not limited to, excessive deflection.
 - b. Failure of components or operators before reaching required number of operation cycles.
 - c. Faulty operation of hardware.
 - d. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use; rust through.
 - e. Delamination of exterior or interior facing materials.
 - 2. Warranty Period: Five years from date of Substantial Completion.

- B. Special Finish Warranty: Manufacturer agrees to repair or replace components that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS, GENERAL

- A. Source Limitations: Obtain sectional doors from single source from single manufacturer.
 - 1. Obtain operators and controls from sectional door manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. General Performance: Sectional doors shall comply with performance requirements specified without failure due to defective manufacture, fabrication, installation, or other defects in construction.

2.3 DOOR ASSEMBLY

- 1. **Basis-of-Design Product:** Subject to compliance with requirements, provide Overhead Door Corporation Model 593:
 - a. Or equal if and as specifically approved by Architect by Addendum during the bidding period.
- B. Operation Cycles: Door components and operators capable of operating for not less than 20,000. One operation cycle is complete when a door is opened from the closed position to the fully open position and returned to the closed position.
- C. Air Infiltration: Maximum rate of 0.08 cfm/sq. ft. at 15 and 25 mph when tested according to ASTM E 283.
- D. Installed R-Value: 17.5 deg F x h x sq. ft./Btu.
- E. Steel Sections: Zinc-coated (galvanized) steel sheet with G90 zinc coating.
 - 1. Section Thickness: 1 3/8 inches.
 - 2. Exterior-Face, Steel Sheet Thickness: .015-inch- nominal coated thickness.
 - a. Surface: Manufacturer's standard, ribbed.
 - 3. Insulation: Foamed in place.
 - 4. Interior Facing Material: Zinc-coated (galvanized) steel sheet with a nominal coated thickness of manufacturer's recommended dimension to comply with performance requirements.
- F. Track Configuration: Standard-lift track.

- G. Weatherseals: Fitted to bottom and top of door. Provide combination bottom weatherseal and sensor edge.
- H. Locking Devices: Equip door with locking device assembly.
 - 1. Locking Device Assembly: Cremone type, both jamb sides, locking bars, operable from outside only, with cylinder.
- I. Counterbalance Type: Torsion spring.
- J. Electric Door Operator:
 - 1. Usage Classification: Intermittent duty, up to 15 cycles per hour and up to 90 cycles per day.
 - 2. Operator Type: Manufacturer's standard for door requirements.
 - 3. Safety: Listed according to UL 325 by a qualified testing agency for commercial or industrial use; moving parts of operator enclosed or guarded if exposed and mounted at 8 feet or lower.
 - 4. Motor Exposure: Exterior, dusty, wet, or humid.
 - 5. Emergency Manual Operation: Chain type.
 - 6. Obstruction-Detection Device: Automatic electric sensor edge on bottom section.
 - a. Sensor Edge Bulb Color: Black.
 - 7. Control Station: Where indicated on Drawings.
- K. Door Finish:
 - 1. Baked-Enamel or Powder-Coat Finish: Custom Color to match Nichiha Smoke.
 - 2. Finish of Interior Facing Material: Match finish of exterior section face.

2.4 MATERIALS, GENERAL

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.5 STEEL DOOR SECTIONS

- A. Exterior Section Faces and Frames: Zinc-coated (galvanized), cold-rolled, commercial steel (CS) sheet, complying with ASTM A 653/A 653M, with indicated zinc coating and thickness.
 - 1. Fabricate section faces from single sheets to provide sections not more than 24 inches high and of indicated thickness. Roll horizontal meeting edges to a continuous, interlocking, keyed, rabbeted, shiplap, or tongue-in-groove weather-resistant seal, with a reinforcing flange return.
 - 2. For insulated doors, provide sections with continuous thermal-break construction, separating the exterior and interior faces of door.
- B. Section Ends and Intermediate Stiles: Enclose open ends of sections with channel end stiles formed from galvanized-steel sheet not less than 0.064-inch- nominal coated thickness and welded to door section. Provide intermediate stiles formed from not less than 0.064-inch- thick galvanized-steel sheet, cut to door section profile, and welded in place. Space stiles not more than 48 inches apart.
- C. Reinforce bottom section with a continuous channel or angle conforming to bottom-section profile and allowing installation of astragal.
- D. Provide reinforcement for hardware attachment.
- E. Foamed-in-Place Thermal Insulation: Insulate interior of steel sections with door manufacturer's standard CFC-free polyurethane insulation, foamed in place to completely fill interior of section and pressure bonded to face sheets to prevent delamination under wind load, and with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, according to ASTM E 84. Enclose insulation completely within steel sections and the interior facing material, with no exposed insulation.
- F. Interior Facing Material: Zinc-coated (galvanized), cold-rolled, commercial steel (CS) sheet, complying with ASTM A 653/A 653M, with indicated thickness.
- G. Fabricate sections so finished door assembly is rigid and aligned, with tight hairline joints and free of warp, twist, and deformation.

2.6 TRACKS, SUPPORTS, AND ACCESSORIES

- A. Tracks: Manufacturer's standard, galvanized-steel track system of configuration indicated, sized for door size and weight, designed for lift type indicated and clearances indicated on Drawings, Provide complete system including brackets, bracing, and reinforcement to ensure rigid support of ball-bearing roller guides for required door type, size, weight, and loading.
 - 1. Galvanized Steel: ASTM A 653/A 653M, minimum G60 zinc coating.
 - 2. Slope tracks at an angle from vertical or design tracks to ensure tight closure at jambs when door unit is closed.
 - 3. Track Reinforcement and Supports: Galvanized-steel members to support track without sag, sway, and vibration during opening and closing of doors. Slot vertical sections of track spaced 2 inches apart for door-drop safety device.
 - a. For Vertical Track: Intermittent, jamb brackets attached to track and attached to wall.

- b. For Horizontal Track: Continuous reinforcing angle from curve in track to end of track, attached to track and supported at points by laterally braced attachments to overhead structural members.

- B. Weatherseals: Replaceable, adjustable, continuous, compressible weather-stripping gaskets of flexible vinyl, rubber, or neoprene fitted to bottom and top of sectional door unless otherwise indicated.

2.7 HARDWARE

- A. General: Heavy-duty, corrosion-resistant hardware, with hot-dip galvanized, stainless-steel, or other corrosion-resistant fasteners, to suit door type.
- B. Hinges: Heavy-duty, galvanized-steel hinges of not less than 0.079-inch- nominal coated thickness at each end stile and at each intermediate stile, according to manufacturer's written recommendations for door size. Attach hinges to door sections through stiles and rails with bolts and lock nuts or lock washers and nuts. Use rivets or self-tapping fasteners where access to nuts is impossible. Provide double-end hinges where required, for doors more than 16 feet wide unless otherwise recommended by door manufacturer.
- C. Rollers: Heavy-duty rollers with steel ball-bearings in case-hardened steel races, mounted with varying projections to suit slope of track. Extend roller shaft through both hinges where double hinges are required. Provide 3-inch- diameter roller tires for 3-inch- wide track and 2-inch- diameter roller tires for 2-inch- wide track.
- D. Push/Pull Handles: Equip each push-up operated or emergency-operated door with galvanized-steel lifting handles on each side of door, finished to match door.

2.8 LOCKING DEVICES

- A. Slide Bolt: Fabricate with side-locking bolts to engage through slots in tracks for locking by padlock, located on single-jamb side, operable from inside only.
- B. Locking Device Assembly: Fabricate with cylinder lock, spring-loaded deadbolt, operating handle, cam plate, and adjustable locking bars to engage through slots in tracks.
 - 1. Lock Cylinders: Cylinders specified in Section 08 71 00 "Door Hardware".
- C. Chain Lock Keeper: Suitable for padlock.
- D. Safety Interlock Switch: Equip power-operated doors with safety interlock switch to disengage power supply when door is locked.

2.9 COUNTERBALANCE MECHANISM

- A. Torsion Spring: Counterbalance mechanism consisting of adjustable-tension torsion springs fabricated from steel-spring wire complying with ASTM A 229/A 229M, mounted on torsion shaft made of steel tube or solid steel. Provide springs designed for number of operation cycles indicated.
- B. Cable Drums and Shaft for Doors: Cast-aluminum or gray-iron casting cable drums mounted on torsion shaft and grooved to receive door-lifting cables as door is raised. Mount counterbalance

mechanism with manufacturer's standard ball-bearing brackets at each end of torsion shaft. Provide one additional midpoint bracket for shafts up to 16 feet long and two additional brackets at one-third points to support shafts more than 16 feet long unless closer spacing is recommended by door manufacturer.

- C. Cables: Galvanized-steel, multistrand, lifting cables with cable safety factor of at least 5 to 1.
- D. Cable Safety Device: Include a spring-loaded steel or spring-loaded bronze cam mounted to bottom door roller assembly on each side and designed to automatically stop door if either lifting cable breaks.
- E. Bracket: Provide anchor support bracket as required to connect stationary end of spring to the wall and to level the shaft and prevent sag.
- F. Bumper: Provide spring bumper at each horizontal track to cushion door at end of opening operation.

2.10 ELECTRIC DOOR OPERATORS

- A. General: Electric door operator assembly of size and capacity recommended and provided by door manufacturer for door and "operation cycles" requirement specified, with electric motor and factory-prewired motor controls, starter, gear-reduction unit, solenoid-operated brake, clutch, control stations, control devices, integral gearing for locking door, and accessories required for proper operation.
- B. Usage Classification: Electric operator and components capable of operating for not less than number of cycles per hour indicated for each door.
- C. Door-Operator Type: Unit consisting of electric motor, gears, pulleys, belts, sprockets, chains, and controls needed to operate door and meet required usage classification.
 - 1. Jackshaft, Side Mounted: Jackshaft operator mounted on the inside front wall on right or left side of door and connected to torsion shaft with an adjustable coupling or drive chain.
- D. Motors: Reversible-type motor with controller (disconnect switch) for motor exposure indicated.
 - 1. Electrical Characteristics:
 - a. Phase: 3 Phase.
 - b. Volts: 208 V.
 - c. Hertz: 60.
 - 2. Motor Size: Minimum size as indicated. If not indicated, large enough to start, accelerate, and operate door in either direction from any position, at a speed not less than 8 in./sec. and not more than 12 in./sec., without exceeding nameplate ratings or service factor.
 - 3. Operating Controls, Controllers (Disconnect Switches), Wiring Devices, and Wiring: Manufacturer's standard unless otherwise indicated.
 - 4. Coordinate wiring requirements and electrical characteristics of motors and other electrical devices with building electrical system and each location where installed.
 - 5. Use adjustable motor-mounting bases for belt-driven operators.
- E. Limit Switches: Equip motorized door with adjustable switches interlocked with motor controls and set to automatically stop door at fully opened and fully closed positions.

- F. Obstruction Detection Device: External entrapment protection consisting of indicated automatic safety sensor capable of protecting full width of door opening. Activation of device immediately stops and reverses downward door travel.
 - 1. Photoelectric Sensor: Manufacturer's standard system designed to detect an obstruction in door opening without contact between door and obstruction.
 - a. Self-Monitoring Type: Designed to interface with door operator control circuit to detect damage to or disconnection of sensing device. When self-monitoring feature is activated, door closes only with sustained pressure on close button.
 - 2. Electric Sensor Edge: Automatic safety sensor edge, located within astragal or weather stripping mounted to bottom section. Contact with sensor activates device. Connect to control circuit using manufacturer's standard take-up reel or self-coiling cable.
 - a. Self-Monitoring Type: Four-wire configured device designed to interface with door-operator control circuit to detect damage to or disconnection of sensor edge.
- G. Control Station: Three-button control station in fixed location with momentary-contact push-button controls labeled "Open" and "Stop" and sustained- or constant-pressure, push-button control labeled "Close."
 - 1. Interior-Mounted Units: Full-guarded, surface-mounted, heavy-duty type, with general-purpose NEMA ICS 6, Type 1 enclosure.
 - 2. Exterior-Mounted Units: Full-guarded, standard-duty, surface-mounted, weatherproof type, NEMA ICS 6, Type 4 enclosure, key operated.
- H. Emergency Manual Operation: Equip electrically powered door with capability for emergency manual operation. Design manual mechanism so required force for door operation does not exceed 25 lbf.
- I. Emergency Operation Disconnect Device: Equip operator with hand-operated disconnect mechanism for automatically engaging manual operator and releasing brake for emergency manual operation while disconnecting motor without affecting timing of limit switch. Mount mechanism so it is accessible from floor level. Include interlock device to automatically prevent motor from operating when emergency operator is engaged.
- J. Motor Removal: Design operator so motor may be removed without disturbing limit-switch adjustment and without affecting emergency manual operation.
- K. Audible and Visual Signals: Audible alarm and visual indicator lights in compliance with regulatory requirements for accessibility.

2.11 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM/NOMMA's "Metal Finishes Manual for Architectural and Metal Products (AMP 500-06)" for recommendations for applying and designating finishes.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.12 STEEL AND GALVANIZED-STEEL FINISHES

- A. Baked-Enamel or Powder-Coat Finish: Manufacturer's standard baked-on finish consisting of prime coat and thermosetting topcoat. Comply with coating manufacturer's written instructions for cleaning, pretreatment, application, and minimum dry film thickness.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for substrate construction and other conditions affecting performance of the Work.
- B. Examine locations of electrical connections.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install sectional doors and operating equipment complete with necessary hardware, anchors, inserts, hangers, and equipment supports; according to manufacturer's written instructions and as specified.
- B. Tracks:
 - 1. Fasten vertical track assembly to opening jambs and framing, spaced not more than 24 inches apart.
 - 2. Hang horizontal track assembly from structural overhead framing with angles or channel hangers attached to framing by welding or bolting, or both. Provide sway bracing, diagonal bracing, and reinforcement as required for rigid installation of track and door-operating equipment.
- C. Accessibility: Install sectional doors, switches, and controls along accessible routes in compliance with regulatory requirements for accessibility.
- D. Power-Operated Doors: Install according to UL 325.

3.3 STARTUP SERVICES

- A. Engage a factory-authorized service representative to perform startup service.
 - 1. Complete installation and startup checks according to manufacturer's written instructions.
 - 2. Test and adjust controls and safety devices. Replace damaged and malfunctioning controls and equipment.

3.4 ADJUSTING

- A. Adjust hardware and moving parts to function smoothly so that doors operate easily, free of warp, twist, or distortion.
- B. Lubricate bearings and sliding parts as recommended by manufacturer.

- C. Adjust doors and seals to provide weather-resistant fit around entire perimeter.
- D. Touch-up Painting: Immediately after welding galvanized materials, clean welds and abraded galvanized surfaces and repair galvanizing to comply with ASTM A 780/A 780M.

3.5 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain sectional doors.

END OF SECTION 08 36 13

SECTION 316316 - AUGER CAST PILES "Area-A"

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

- A. The extent of auger cast piles is shown on drawings, including locations, diameters of shafts, estimated bottom elevations, top elevations, and details of construction. Actual required lengths will be determined in the field by the Geotechnical Engineer/Soils Consultant.

1.2 QUALITY ASSURANCE

- A. Auger Cast Pile Installer Qualifications: Not less than six years experience installing auger cast piles. Not less than six successfully completed contracts with similar soil conditions, shaft sizes, depths, and volumes of work contained in this project. Submit satisfactory proof of compliance to the Architect/Engineer.
- B. Survey Work: The general contractor is completely responsible for all surveys, layouts, and measurements for auger cast pile work. Conduct layout work for each auger cast pile to lines and levels required before excavation, and record actual measurements of each auger cast pile's horizontal axial locations, shaft diameter, bottom and top elevations, deviations from specified tolerances, and other data as required.
 - 1. Record and maintain information pertinent to each auger cast pile and cooperate with other testing and inspection personnel to provide data for required reports.
- C. Concrete Testing: The Contractor shall retain the services of an approved testing laboratory to perform compressive strength tests on mortar as noted below:
 - 1. Test the mortar in conformance with "Test Method for Compressive Strength of Hydraulic Cement Mortars" ASTM C109 each morning and afternoon. Record the piles represented by each test. See Section 03010 – "Concrete Work," for further requirements for quality control testing.
- D. Submittal: The Contractor shall submit the auger cast mix and test data from at least three (3) previous similar projects for review and approval by the Engineer of Record.
- E. Materials and Installed Work: The Owner may require testing and retesting any time during progress of work. Allow free access to material stockpiles and facilities. Tests not specifically indicated shall be done at the Owner's expense. Retesting of rejected materials and installed work shall be done at the Contractor's expense.
- F. Allowable Tolerances: Variation from vertical shall not be more than 1/4" per foot of pile length with a maximum of 6 inches in the entire length.
- G. Variation from drawing location of butt at cutoff shall not be more than 1-1/2".
- H. Field Quality Assurance: Inspection of piling placement is to be on a full-time basis by the Olsson Associates of Lincoln, Nebraska. The Soil Consultant must be present during all pile installation operations. The Contractor shall notify the Engineer at least seven (7) days prior to starting pile placement work. The Soil Consultant will keep a record for each pile placed. The

records shall indicate the pay length, location, type, calculated safe load, the results of any tests, and as well as any other information pertaining to the piles. Cooperate with the Soil Consultant to facilitate the keeping of these records. The Soil Consultant is the Owner's representative and the Contractor shall assume toward him all the obligation and responsibilities that he assumed toward the Owner and the Engineer. The Soil Consultant will be retained by the Owner. Grout testing will be paid by the Contractor. See Division 01 Section "Allowances" for the allowance on testing and soils engineering inspections.

1.3 PAY QUANTITIES FOR AUGER CAST PILES

- A. Pile Lengths: Extend piles into soils as shown on drawings. See plans for locations of top and bottoms of piles.
- B. Unit Prices: Bidders shall base proposals on the number of piles and pile lengths shown on the drawings. Payment under the contract shall be adjusted to reflect actual length of piles installed as determined by registered Geotechnical Engineer as specified above in the Article entitled QUALITY ASSURANCE. The Contract Sum will be adjusted for increases or decreases in the actual aggregate piling length compared to lengths shown on the drawings using unit prices stipulated by the Bidder on the Bid Proposal Form. Pay length of pile shall be from the tip to the cutoff elevation shown on the drawings. No payment will be made for withdrawn, broken, or rejected piling unless the Engineer determines that the piling was damaged by an obstruction. No payment will be made for cutting off piling or for any portion of pile remaining above cutoff elevation, except when specifically authorized.

1.4 SUBMITTALS

- A. Reports:
 - 1. Submit the following reports directly to Architect/Engineer, with copy to others as designated:
 - a. The General Contractor submit shop drawings, prepared by the pile contractor and associated trades, to the Engineer in accord with the General Conditions and General Requirements. Shop drawings shall show the following:
 - 1) Calculations
 - 2) Dimensions
 - 3) Material Strengths
 - 4) Reinforcement
 - 5) Names of Three Past Successful Installations Under Similar Conditions
 - 6) Grout Design
 - b. The General Contractor shall submit as-built drawings indicating the plans and actual locations of all piles to the Architect/Engineer upon completion of pile placement.
 - c. The Geotechnical Engineer/Soils Consultant shall submit a report to the Architect/Engineer upon completion of pile placement. This report shall contain the records required under "Field Quality Assurance," and the stamp of a registered professional engineer licensed to practice in the State of Nebraska.

1.5 JOB CONDITIONS

- A. Site Information: Data on indicated subsurface conditions are not intended as representations or warranties of continuity of such conditions. It is expressly understood that Owner will not be responsible for interpretations or conclusions drawn there from by the Contractor. Data are made available for convenience of the Contractor and are not guaranteed to represent conditions that may be encountered.
 - 1. Additional test boring and other exploratory operations may be made by Contractor at no additional cost to Owner.
- B. Existing Utilities: Locate existing underground utilities by careful hand excavation before starting pile excavation operations. If utilities are to remain in place, provide protection from damage during pile operations.
- C. Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, consult Architect immediately for directions as to proceed. Cooperate with Owner, and public or private utility companies in keeping their respective service and facilities in operation. Repair damage utilities to the satisfaction of utility owner.
- D. Do not interrupt existing utilities serving facilities occupied and used by Owner or others, except when permitted in writing by Architect and then only after acceptable temporary utility services have been provided.

PART 2 - PRODUCTS

- A. Auger Cast Piles: Auger cast piles shall be a cast-in-place pile made by rotating a continuous helical flight hollow shaft auger into the subsoil and injecting grout under sufficient pressure as the auger is withdrawing to ensure a continuous column of grout to the minimum diameter of 18". The piles shall develop an allowable capacity of at least 310 kips. A pile load test is required.
- B. Portland Cement: Portland cement shall conform to ASTM C 150.
- C. Fine Aggregate: Fine aggregate shall conform to ASTM C 33.
- D. Admixtures: Admixtures may be used to impart additional strength, reduce mixing water, retard setting time, decrease bleeding and segregation, and eliminate setting shrinkage. Conform to the manufacturer's instructions. Any admixtures shall be indicated in submittal from general contractor.
- E. Mortar: Proportion and mix mortar to provide a mortar capable of maintaining the solids in suspension without appreciable water gain, yet which may be pumped without difficulty and which will laterally penetrate and fill voids in the foundation material. Proportion materials to provide a compressive strength of 5,000 psi at 28 days. The compressive stress on the shaft concrete shall not exceed 22.5% of the 28-day compressive strength. Adjust mix as necessary to limit bleeding of completed pile such that water accumulation on top of pile is less than 2" and no significant cement loss occurs.
- F. Equipment: Equipment for pumping mortar shall provide continuous mixing and agitation in the preparation and handling of the mortar. Provide an accurate and recently calibrated grout pressure gauge in clear view of the equipment operator. Use a screen between mixer and pump, or between mixer and agitator. Accurately measure all materials by weight as they are fed into the mixer. Provide a stroke counter to continuously record the volume of grout pumped. Calibrate the pump on the site by pumping a known volume of grout exceeding 50 gallons or provide recent pump calibration data.

- G. Auger flighting shall be continuous from the auger head to the top of the auger, with no gaps or other breaks. During the placement of the pile, pump the high-strength mortar through a hole located at the bottom at the auger head. The Contractor shall visit the site to verify the actual drilling clearances, which will be encountered due to existing construction.

PART 3 - EXECUTION

3.1 INSTALLATION OF PILES

- A. Select and use installation methods suitable to the soil profile which will provide a continuous column of grout of the minimum diameter and strength indicated, free of voids and foreign material, without detrimental disturbance of the surrounding soil. Extend piles to elevation indicated or established by the Engineer. Piles less than 6' center to center shall not be installed in the same working day.
- B. Advance auger to the required depth with minimum rotation to prevent disturbance of surrounding soil. Do not rotate auger without either advancing the auger or pumping grout. Use consistent installation procedures throughout the project. Accomplish drilling with plug in lower end of auger. Do not inject water at anytime during drilling or grouting. Air may be injected during drilling with the approval of the Geotechnical Engineer.
- C. Mix and pump grout only with adequate equipment in preparation and handling grout. Remove all soil, rust, or other foreign material from mixing drums, stirring mechanisms, and other equipment in contact with grout before materials are introduced. Mix grout not less than one minute. If grout is agitated continuously, grout may be held in mixer or agitator for a period not more than two hours at temperatures not exceeding 70° F. and for a period not exceeding 1-1/2 hour at higher temperatures. Recirculate grout through pump or agitator if there is a lapse in operation. Pump high- strength mortar with sufficient pressure as the auger is withdrawn to fill the hole preventing hole collapse, and to cause the lateral penetration of the mortar into soft or porous zones of the surrounding soil. Keep a head of mortar of at least 15' above the injection point at all times during the raising of the auger. This method of placement shall be used at all times and not be dependent on whether the hole is sufficiently stable to retain its shape without support from the earth-filled auger. Pump mortar continuously, and, if there is a lapse in the operation, recirculate the mortar through the pump. Jerky removal of the auger will be sufficient basis for rejection of the pile.
- D. Remove any mud which falls into the top of the hole before reinforcing steel is set. Place reinforcing steel as indicated on the drawings while mortar is still fluid.
- E. Any pile that is not completed during the initial withdrawal of the auger will be rejected. The rejected pile must be lengthened to a depth determined by the Soil Consultant. The withdrawal may reduce the capacity of adjoining completed piles. The capacity reduction will be determined by the Soil Consultant. The Contractor is responsible for the cost of increasing the penetration of piles or additional piles required by the Soils Consultant if it is necessary to withdraw the auger without grouting.
- F. If obstructions are encountered (including but not limited to boulders and timbers), which shall prevent placing the pile to the depth required or shall cause the pile to drift from the required location, the pile shall be completed and this short pile added to the unit lengths for payment. If required by the Engineer, an additional adjacent pile shall be placed and paid for at the Unit Price.

- G. Place metal sleeves of the proper diameter around pile tops where the pile cutoff is near the surface or above the bottom of the excavation.
- H. Remove fresh mortar to the cutoff elevation or allow the mortar to harden at least overnight and remove hardened mortar to the cutoff elevation.
- I. Replace rejected piles by installing additional piles as directed by the Engineer. Piles may be rejected for location out of tolerance, broken or collapsed piles, inadequate strength, or failure to meet specifications. All rejected piles shall be corrected by the General Contractor at no expense to the Owner.
- J. Depth of Bearing Strata: If indicated depth of shaft excavation is reached without developing required strata friction capacity, immediately suspend excavation operations and inform Architect. Architect will determine procedures to be followed in each instance.
 - 1. Where changes in indicated depth or dimensions are required, or additional soil borings are required, proceed with such work when directed in writing by Architect.
- K. Overexcavation: No payment will be made for extra length, when auger cast piles shafts are excavated to a greater depth than required or authorized by Architect, due to overdrilling by Contractor. Complete intruded mortar piles and fill extra depth with grout, if other conditions are satisfactory. Overexcavated shafts will be measured and paid for to authorized depth.
- L. Excavated Material: Remove excavated material and dispose of it off-site. Remove spoils in such a manner to minimize disturbance and thoroughly clean all affected areas when pile operation has been completed.
- M. Cold Weather Placing: Protect mortar work from physical damage or reduced strength, which could be caused by frost, freezing actions, or low temperatures.
 - 1. Do not use frozen materials or materials containing ice or snow. Do not place concrete against frozen subgrade or on subgrade containing frozen materials.
 - 2. Do not use calcium chloride, salt and other mineral containing anti-freeze agents or chemical accelerators, unless otherwise accepted by Architect.
 - 3. Do not use retarding admixtures without acceptance of Architect.

END OF SECTION 316316

UTILITY NOTES

ELECTRICAL SERVICE

- ELECTRICAL TRANSFORMER PAD TO BE BUILT BY SITE CONTRACTOR. COORDINATE WITH LINCOLN ELECTRIC SYSTEM FOR EXACT SIZE, LOCATION, AND MATERIALS USED FOR PAD.
- UNDERGROUND TELEPHONE AND ELECTRIC PRIMARY CONDUITS AND CONDUCTORS TO BE BUILT BY LINCOLN ELECTRIC SYSTEM. COORDINATE WITH LINCOLN ELECTRIC SYSTEM FOR EXACT LOCATION AND SCHEDULING OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR SECONDARY CONDUIT FROM TRANSFORMER TO WITHIN 5' OF BUILDING.
- REFER TO ARCHITECTURAL BUILDING ELECTRICAL PLANS FOR CONTINUATION OF SERVICE IN BUILDING.
- PARKING LOT LIGHTING TO BE SUBMITTED SEPARATELY.

TELEPHONE SERVICE

- THE CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL CONDUIT FOR TENANT TELEPHONE SERVICE AS SHOWN.
- WINDSTREAM WILL DIRECT BURY TELEPHONE LINES IN UTILITY EASEMENTS.
- CONTRACTOR TO CONTACT WINDSTREAM TO VERIFY EXACT CONNECTION POINT OF SERVICE OFF THE PROPERTY.
- REFER TO ARCHITECTURAL BUILDING MECHANICAL PLANS FOR CONTINUATION OF SERVICE IN BUILDING.

CABLE TELEVISION

- CONDUIT FOR CABLE TELEVISION IS TO BE INSTALLED IN THE SAME TRENCH AS THE TELEPHONE.
- CONTACT CABLE COMPANY FOR EXACT LOCATION OF CONNECTION POINTS.
- REFER TO ARCHITECTURAL BUILDING MECHANICAL PLANS FOR CONTINUATION OF SERVICE IN BUILDING.

GAS MAIN

- UNDERGROUND GAS SERVICE TO BE BUILT BY BLACK HILLS ENERGY. COORDINATE WITH BLACKS HILLS ENERGY FOR EXACT LOCATION AND SCHEDULING OF CONSTRUCTION.
- REFER TO ARCHITECTURAL BUILDING MECHANICAL PLANS FOR CONTINUATION OF SERVICE IN BUILDING.

GENERAL NOTES

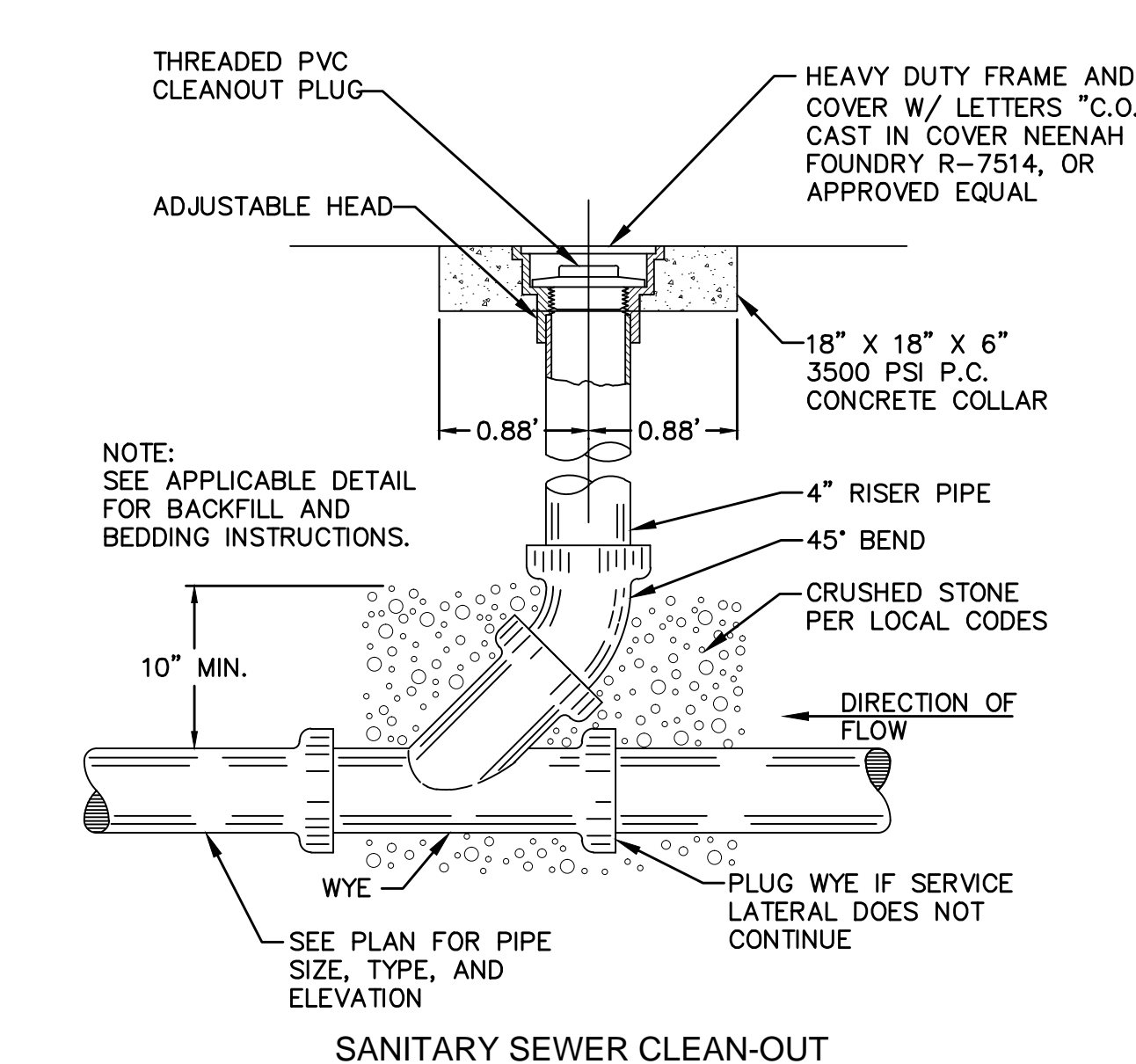
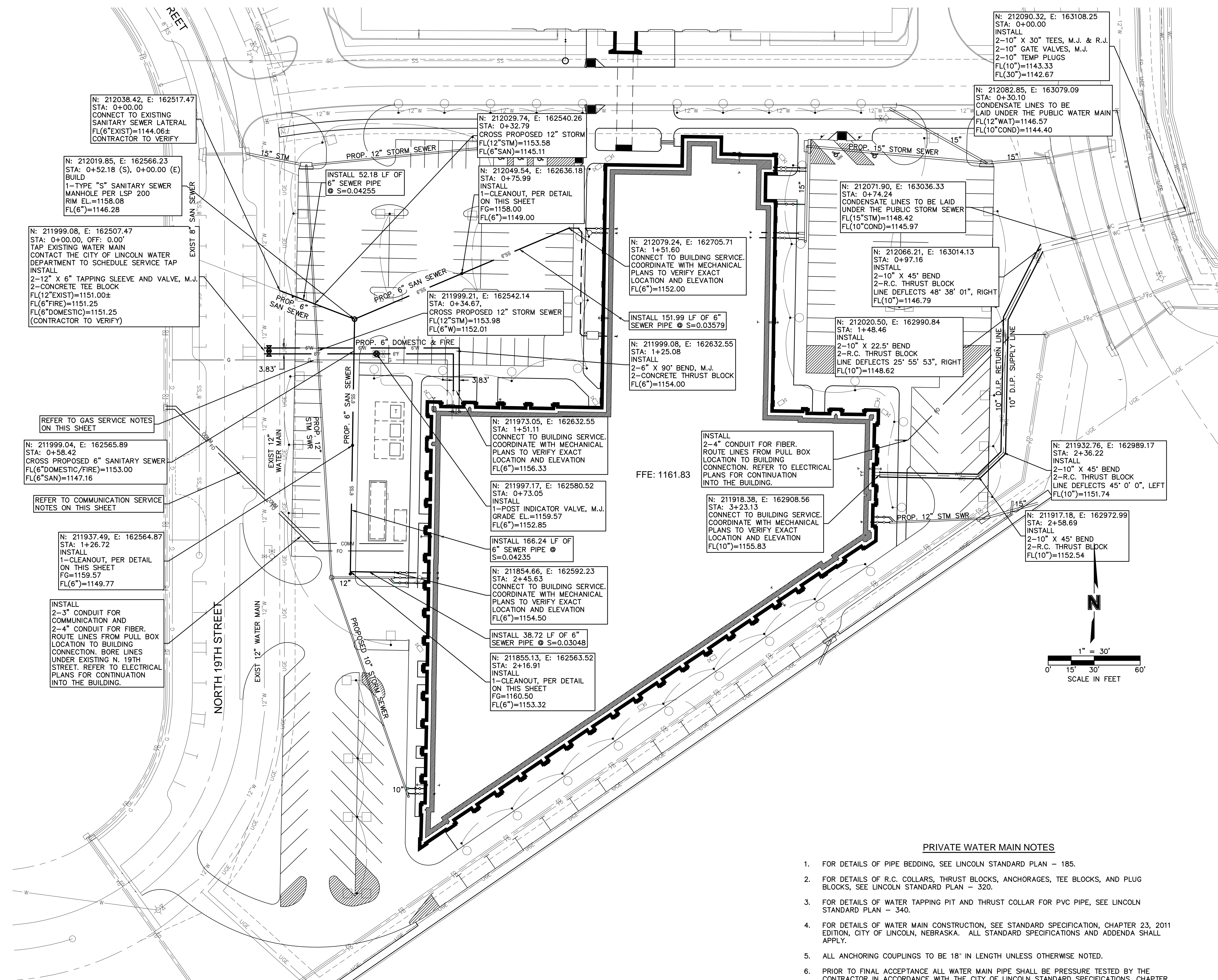
- THE CONTRACTOR SHALL MAINTAIN STRICT LATERAL CLEARANCE AS SHOWN ON THE PLANS FOR ALL UTILITY LINES.
- IN ANY OF THE MAIN OR SERVICE ROUTES ARE ADJUSTED IN THE FIELD BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE ENGINEER A RECORD OF THE EXACT LOCATIONS, AT THE CONTRACTOR'S EXPENSE, A LICENSED SURVEYOR SHALL BE RETAINED TO LOCATE THE CONDUIT ROUTES. THE CONTRACTOR SHALL PROVIDE THE SURVEYED LOCATIONS TO THE ENGINEER IN ELECTRONIC FORMAT.
- ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED PER THE SPECIFICATIONS IN THE GEOTECHNICAL REPORT.
- THE CONTRACTOR SHALL RESTORE ANY DISTURBED AREA TO ITS PREVIOUS CONDITION.
- ALL CONDUITS SHALL BE TERMINATED 5 FEET FROM THE BUILDING.
- THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL CROSSINGS OF ALL PROPOSED AND EXISTING UTILITIES PRIOR TO INSTALLATION OF CONDUIT. CONTACT THE ENGINEER WITH ANY CONFLICTS.
- ALL CONDUIT STUBS SHALL BE CAPPED AND MARKED ABOVE GROUND WITH REBAR AND A FLAG.

PRIVATE SANITARY SEWER NOTES

- FOR DETAILS OF C.I. MANHOLE RING, COVER, AND STEPS, SEE LINCOLN STANDARD PLAN - 162.
- FOR DETAILS OF STANDARD SEWER MANHOLE TYPE "S" (LINE) AND TYPE "R" (OUTSIDE DROP), SEE LINCOLN STANDARD PLAN - 200.
- FOR DETAILS OF PIPE BEDDING, SEE LINCOLN STANDARD PLAN - 185.
- FOR DETAILS OF STANDARD SANITARY SEWER SERVICES, SEE LINCOLN STANDARD PLAN - 210.
- FOR DETAILS OF PAVEMENT REPLACEMENT FOR UTILITY CONSTRUCTION, SEE LINCOLN STANDARD PLAN - 670.
- FOR DETAILS OF SANITARY SEWER CONSTRUCTION, SEE STANDARD SPECIFICATION, CHAPTER 22, 2011 EDITION, CITY OF LINCOLN, NEBRASKA. ALL STANDARD SPECIFICATIONS AND ADDENDA SHALL APPLY.
- USE 3" COUPLINGS AS REQUIRED BY STANDARD SPECIFICATIONS. MINIMUM PIPE LENGTH = 6.25'
- SANITARY SEWERS SHALL BE SEPARATED BY AT LEAST 10 FT. (3.05 M) HORIZONTALLY FROM ANY EXISTING OR PROPOSED PARALLEL WATER MAINS, MEASURED EDGE TO EDGE.
- AT ALL WATER MAIN CROSSINGS, SANITARY SEWERS SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SANITARY SEWER IS AT LEAST 18 IN (457 MM) BELOW THE BOTTOM OF THE WATER MAIN. IN THOSE INSTANCES WHERE THE BOTTOM OF THE WATER MAIN IS LESS THAN 18 IN (457 MM) ABOVE THE TOP OF THE SANITARY SEWER OR THE SANITARY SEWER IS LOCATED ABOVE THE WATER MAIN, THE SANITARY SEWER SHALL BE CONSTRUCTED USING A 20 FT. (6.10 M) LENGTH OF PVC PRESSURE PIPE, MEETING THE REQUIREMENTS OF AWWA C900 FOR DR18, PRESSURE RATING 150 PSI (1034 KPA), CENTERED ON THE WATER MAIN.
- ALL SANITARY SEWER WILL BE DONE UNDER A PLUMBERS PERMIT, AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.
- PRIOR TO FINAL ACCEPTANCE ALL SEWER MAIN SHALL BE AIR TESTED BY THE CONTRACTOR @ 5 LBS FOR 15 MINUTES, IN ACCORDANCE WITH THE LINCOLN PLUMBING CODE.
- PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL HAVE THE SEWER MAIN TV INSPECTED AND THE COST OF SUCH WORK SHALL BE SUBSIDIARY TO THE PRICE BID FOR SEWER WITH INSTALLATION.
- PRIOR TO FINAL ACCEPTANCE, VACUUM TESTING SHALL BE PERFORMED ON ALL MANHOLES TO CONFORM TO THE REQUIREMENTS OF STANDARD TEST METHOD FOR CONCRETE MANHOLES BY THE "NEGATIVE AIR PRESSURE (VACUUM) TEST" ASTM DESIGNATION G-1244.
- CONTRACTOR SHALL VERIFY PROPOSED SANITARY SEWER MANHOLE RIM ELEVATIONS TO BE WITHIN ±0.25' TOLERANCE WITH EXISTING GROUND SURFACE. CONTRACTOR SHALL ADJUST MANHOLE RIM ELEVATIONS TO BE WITHIN TOLERANCE. ADJUSTMENTS SHALL BE A SUBSIDIARY TO THE PRICE BID FOR STANDARD SEWER MANHOLE, TYPE "S".
- FOR BORED SECTION OF PIPE, CONTRACTOR SHALL TEST EVERY 25' SECTION OF 8" SEWER PIPE BASED ON THE FOLLOWING GUIDELINES: GRADE TOLERANCES SHOULD NOT EXCEED THE FOLLOWING:
 - THE MINIMUM SLOPE OF THE SEWER MAIN BETWEEN ANY TWO CHECK POINTS ALONG THE ALIGNMENT SHALL BE AT LEAST 0.005 FT/FT.
 - THE ENGINEER HAS THE RIGHT TO REJECT ANY INSTALLATION SECTION OF THE INSTALLATION THAT DOES NOT MEET THE MINIMUM REQUIREMENTS. CONTRACTOR SHALL, AT THEIR OWN EXPENSE, REINSTALL THE SEWER PIPE TO THE LINES AND GRADES REQUIRED.
- REFER TO ARCHITECTURAL PLANS FOR SANITARY SEWER TIE-INS WITH BUILDING(S).
- BUILD 1 1/2" P.V.C. RISER PIPE WITH 1 1/2" SOLVENT WELDED CAP, AT THE END OF SANITARY SEWER SERVICE.
- CLEAN-OUTS TO BE BUILT AS PER CITY OF LINCOLN CODE.
- ALL PIPE, SERVICE PIPE, AND FITTINGS SHALL BE SCHEDULE 40 PVC.

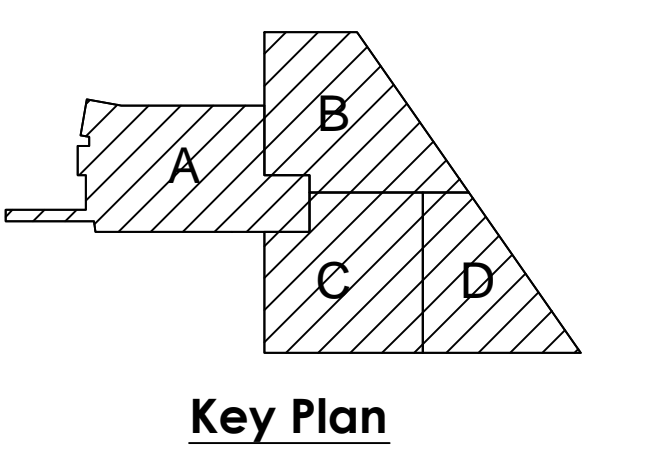
PRIVATE WATER MAIN NOTES

- FOR DETAILS OF PIPE BEDDING, SEE LINCOLN STANDARD PLAN - 185.
- FOR DETAILS OF R.C. COLLARS, THRUST BLOCKS, ANCHORAGES, TEE BLOCKS, AND PLUG BLOCKS, SEE LINCOLN STANDARD PLAN - 320.
- FOR DETAILS OF WATER TAPPING PIT AND THRUST COLLAR FOR PVC PIPE, SEE LINCOLN STANDARD PLAN - 340.
- FOR DETAILS OF WATER MAIN CONSTRUCTION, SEE STANDARD SPECIFICATION, CHAPTER 23, 2011 EDITION, CITY OF LINCOLN, NEBRASKA. ALL STANDARD SPECIFICATIONS AND ADDENDA SHALL APPLY.
- ALL ANCHORING COUPLINGS TO BE 18" IN LENGTH UNLESS OTHERWISE NOTED.
- PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE PRESSURE TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY OF LINCOLN STANDARD SPECIFICATIONS, CHAPTER 23, WATER MAINS, 2011 EDITION.
- PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE DISINFECTED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY OF LINCOLN STANDARD SPECIFICATIONS, CHAPTER 23, WATER MAINS, 2011 EDITION.
- FOR PVC WATER MAIN CONSTRUCTION, ALL FITTINGS SHALL BE DUCTILE IRON WRAPPED WITH POLYWRAP. POLYWRAP SHALL BE LINEAR LOW DENSITY POLYETHYLENE FILM MANUFACTURED OF VIRGIN POLYETHYLENE MATERIAL. MINIMUM THICKNESS SHALL BE 8 MIL. POLYWRAP SHALL BE IN ACCORDANCE WITH DRAFT OF AWWA C105 REVISION, DOUBLE WRAPPED (2 LAYERS) AND TAPED AS PER CITY OF LINCOLN STANDARD SPECIFICATION.
- WHERE THE WATER MAIN IS TO BE CONSTRUCTED BELOW OR WITHIN 18 INCHES (0.5 M) OF ANY SEWER PIPE, THE CONTRACTOR SHALL LAY A FULL LENGTH OF WATER MAIN PIPE CENTERED ON THE SEWER OR SUCH LENGTH AS WILL PROVIDE THE MAXIMUM POSSIBLE SEPARATION OF THE JOINTS IN THE WATER MAIN FROM THE SEWER LINE. IF NOT ALREADY SO, THE CONTRACTOR SHALL CONSTRUCT SANITARY SEWER WITH ONE 20 FOOT (6 M) NOMINAL LENGTH OF PRESSURE PIPE MATERIAL CENTERED ON THE WATER MAIN AS PROVIDED IN SECTION 22.02(B), SUCH THAT THE MAXIMUM POSSIBLE SEPARATION BETWEEN THE WATER MAIN AND THE SEWER PIPE JOINTS WILL RESULT. THE BACKFILL MATERIAL SHALL BE SELECT, LOW PERMEABILITY SOIL.
- AT ALL WATER MAIN CROSSINGS, SANITARY SEWERS SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SANITARY SEWER IS AT LEAST 18 IN (357 MM) BELOW THE BOTTOM OF THE WATER MAIN.
- ALL WATER MAIN CONSTRUCTION TO BE DONE UNDER A PLUMBERS PERMIT AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.
- ALL WATER METERS, PUMPS, AND BACKFLOW PREVENTERS ARE LOCATED INSIDE BUILDING. REFER TO ARCHITECTURAL PLANS FOR DESIGN AND LOCATIONS.
- WATER SERVICE PIPE SHALL HAVE A 5.0' MINIMUM BURY DEPTH AS MEASURED FROM FINISHED GROUND TO TOP OF PIPE.
- SITE SHALL BE TO FINISHED GRADE PRIOR TO INSTALLATION OF WATER SERVICE.
- MATERIAL OF PIPE FROM TAP OF PUBLIC WATER MAIN TO METER IN BUILDING SHALL BE TYPE "K" SEAMLESS COPPER (3/4" TO 3"), DUCTILE IRON PIPE (3" AND LARGER), OR AWWA C900 PVC (4" AND LARGER) PER LOCAL CODES AND REGULATIONS.
- REFER TO ARCHITECTURAL PLANS FOR WATER SERVICE TIE-INS WITH BUILDING.



SHEET HISTORY:

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| ISSUED | 11/27/2013 | AS PER CONSTR. DOCUMENTS |
| A-01 | 12/11/2013 | AS PER ADDENDUM #1 |



Life Sciences Collaboration
 1910 N. Antelope Valley Parkway
 Lincoln, Nebraska
 TCEP No.: 716-002-12
 Davis Design.: 12-0077
 BVH No.: L12018.unl
 November 27, 2013



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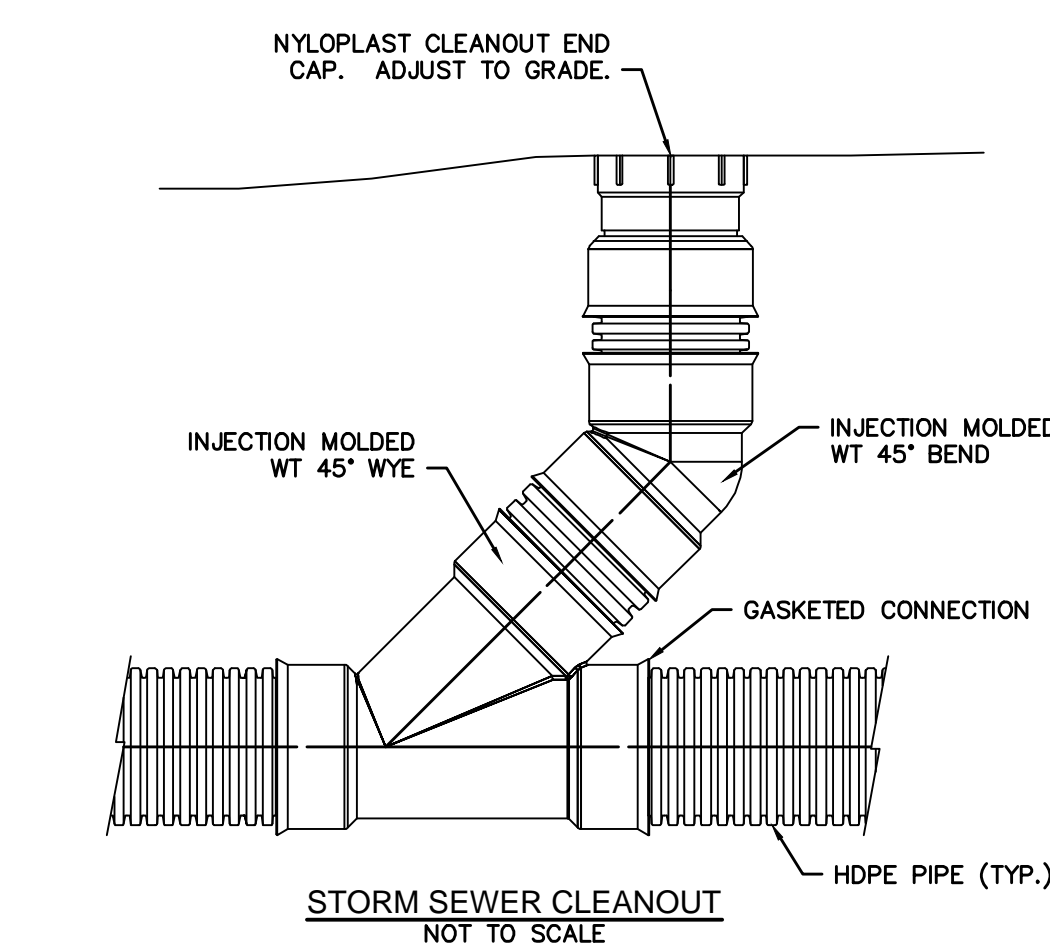
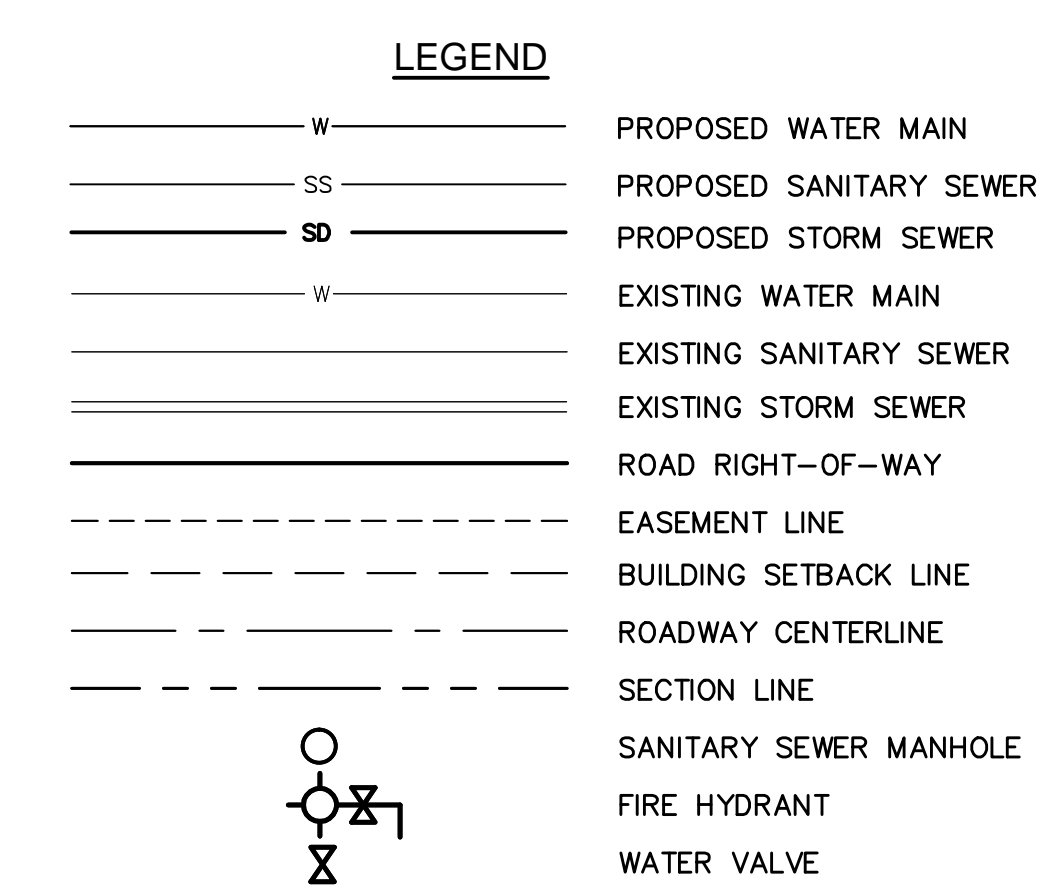
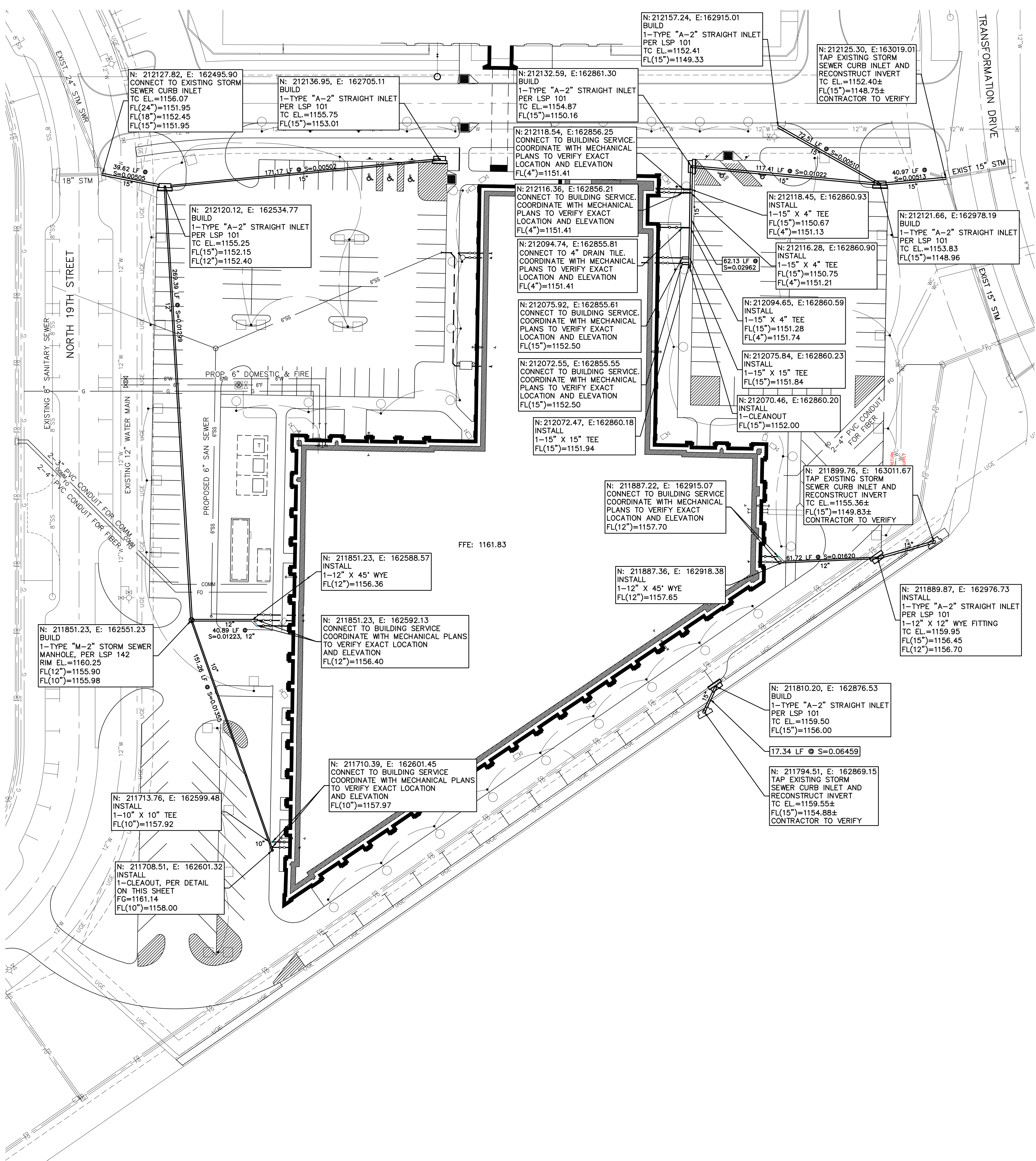
LEGEND

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|--------|-------------------------|
| — W — | PROPOSED WATER MAIN |
| — SS — | PROPOSED SANITARY SEWER |
| — SD — | PROPOSED STORM SEWER |
| — W — | EXISTING WATER MAIN |
| — SS — | EXISTING SANITARY SEWER |
| — SD — | EXISTING STORM SEWER |
| — | ROAD RIGHT-OF-WAY |
| — | EASEMENT LINE |
| — | BUILDING SETBACK LINE |
| — | ROADWAY CENTERLINE |
| — | SECTION LINE |
| — | SANITARY SEWER MANHOLE |
| — | FIRE HYDRANT |
| — | WATER VALVE |



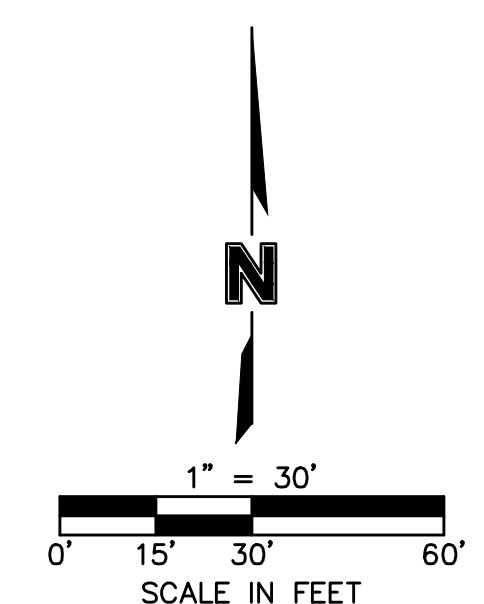
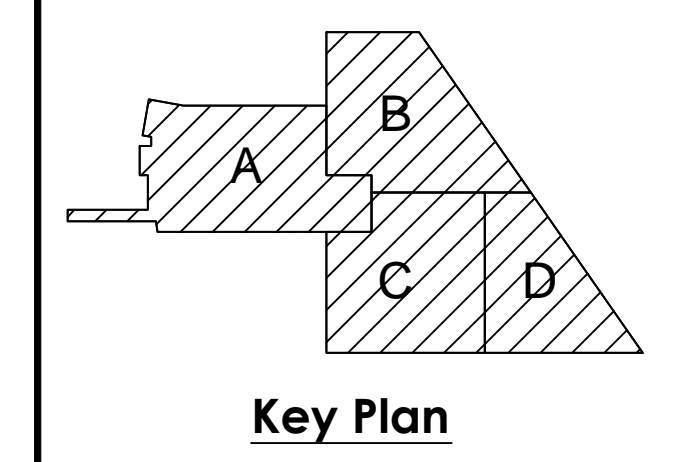
PRIVATE STORM SEWER NOTES

- FOR DETAILS OF TYPE "A-2" STORM SEWER INLET, SEE LINCOLN STANDARD PLAN - 101.
- BUILD 72" STORM SEWER INLET (COMPLETE) DOES NOT INCLUDE LENGTH OF CURB AS SHOWN ON LINCOLN STANDARD PLAN - 101.
- FOR DETAILS OF TYPE "M-2" STORM SEWER MANHOLE, SEE LINCOLN STANDARD PLAN - 142.
- FOR DETAILS OF R.C. COLLARS, R.C. ELBOWS, AND PLUGS, SEE LINCOLN STANDARD PLAN - 150.
- FOR DETAILS OF C.I. MANHOLE RING, COVER, AND STEPS, SEE LINCOLN STANDARD PLAN - 162.
- FOR DETAILS OF PIPE BEDDING, SEE LINCOLN STANDARD PLAN - 185.
- FOR DETAILS OF STORM SEWER CONSTRUCTION, SEE STANDARD SPECIFICATION, CHAPTER 21, 2011 EDITION, CITY OF LINCOLN, NEBRASKA. ALL STANDARD SPECIFICATIONS AND ADDENDA SHALL APPLY.
- FOR DETAILS OF PAVEMENT REPLACEMENT FOR UTILITY CONSTRUCTION, SEE LINCOLN STANDARD PLAN - 670.
- ALL STATIONING AND DIMENSIONS ARE TO BE CENTERLINE OF VAULT UNLESS OTHERWISE NOTED.
- THE PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR THE INLET THROAT AND CURB AND GUTTER UP TO THE INLET TOP.
- ALL STORM SEWER PIPE MATERIAL 12" AND SMALLER SHALL BE ADVANCED DRAINAGE SYSTEMS (ADS) PRODUCT OR APPROVED EQUAL.
- ALL STORM SEWER PIPE MATERIAL TO CONFORM TO LOCAL CODES.



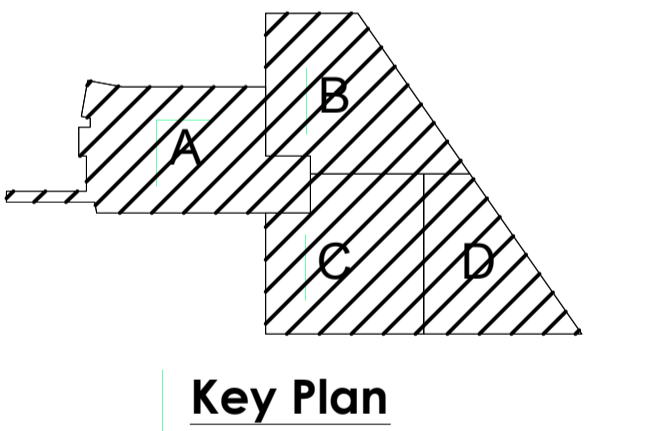
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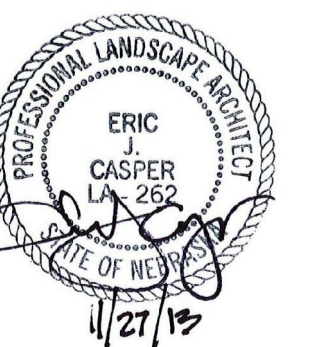


Life Sciences Collaboration
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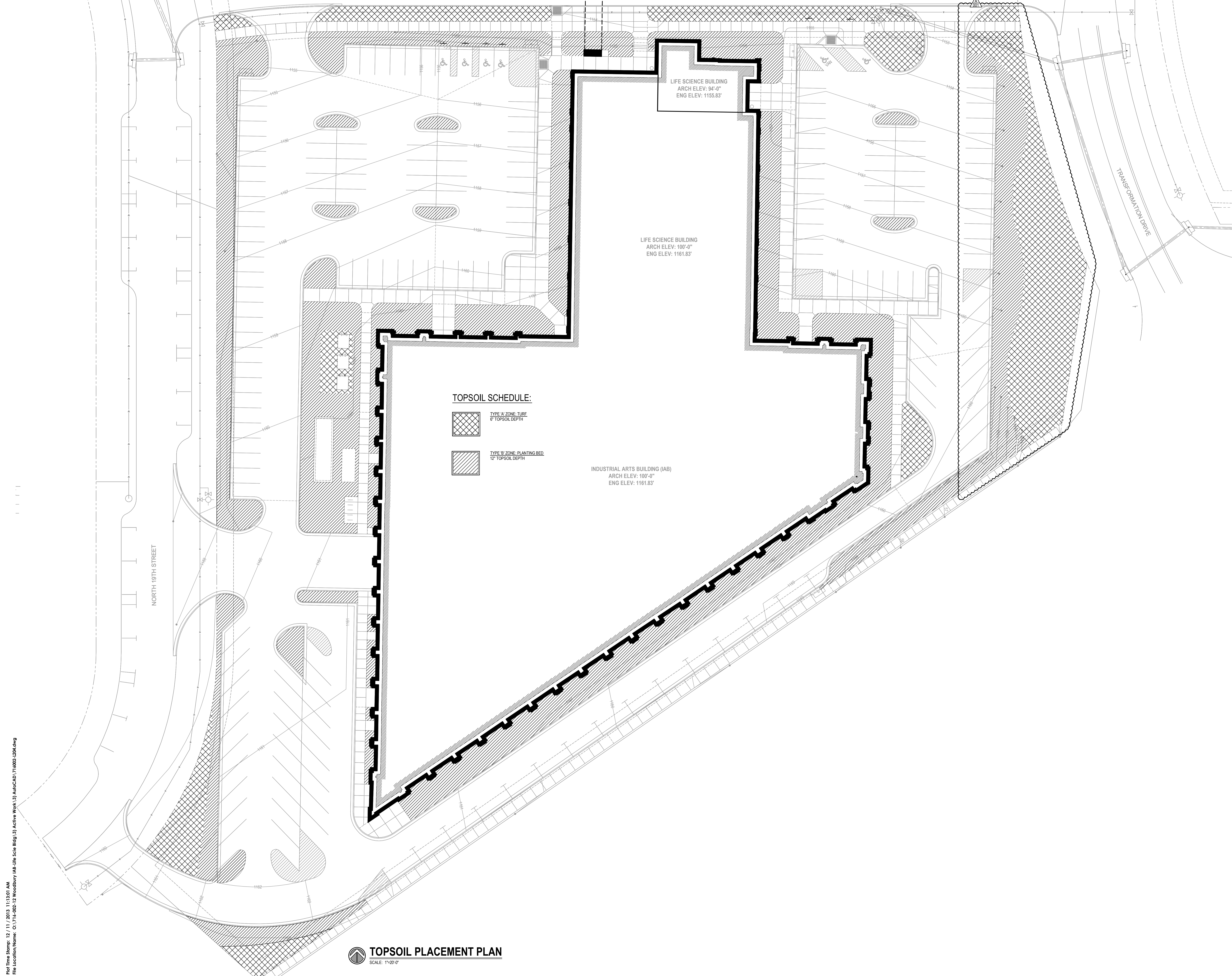




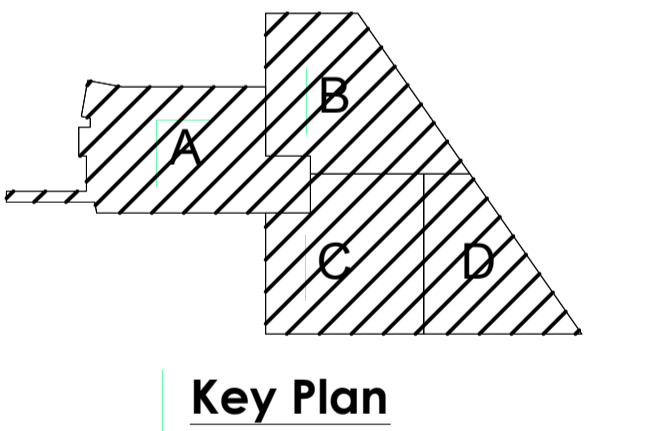
Life Sciences Collaboration
1910 N. Antelope Valley Parkway
Lincoln, Nebraska
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November 27, 2013



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TOPSOIL PLACEMENT PLAN
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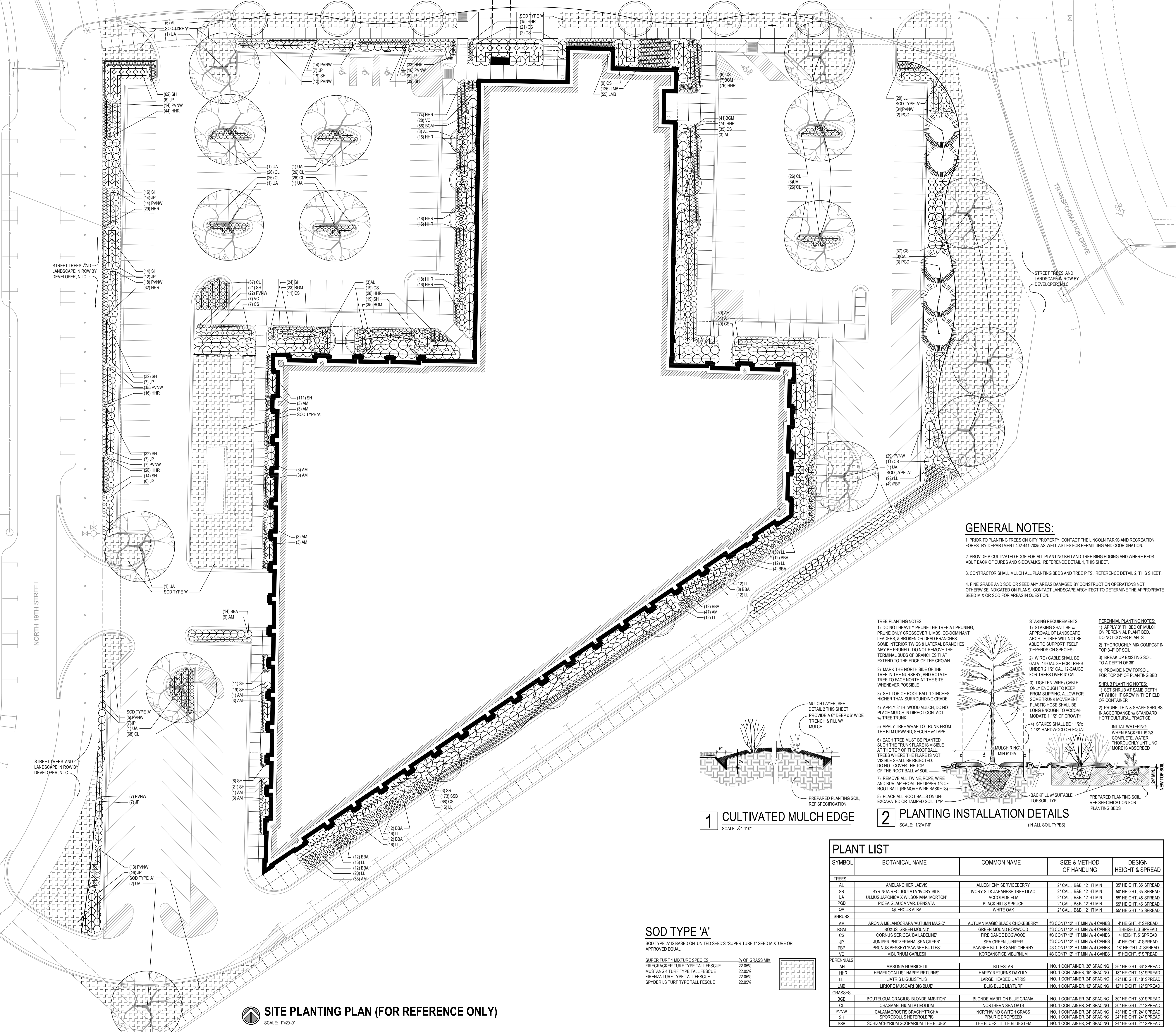


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 1910 N. Antelope Valley Parkway
 Lincoln, Nebraska
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Site Planting Plan
 (For Reference Only)

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GENERAL NOTES:

- PRIOR TO PLANTING TREES ON CITY PROPERTY, CONTACT THE LINCOLN PARKS AND RECREATION FORESTRY DEPARTMENT 402-441-7035 AS WELL AS LES FOR PERMITTING AND COORDINATION.
- PROVIDE A CULTIVATED EDGE FOR ALL PLANTING BED AND TREE RING EDGING AND WHERE BEDS ABUT BACK OF CURBS AND SIDEWALKS. REFERENCE DETAIL 1, THIS SHEET.
- CONTRACTOR SHALL MULCH ALL PLANTING BEDS AND TREE PITS. REFERENCE DETAIL 2, THIS SHEET.
- FINE GRADE AND SOD OR SEED ANY AREAS DAMAGED BY CONSTRUCTION OPERATIONS NOT OTHERWISE INDICATED ON PLANS. CONTACT LANDSCAPE ARCHITECT TO DETERMINE THE APPROPRIATE SEED MIX OR SOD FOR AREAS IN QUESTION.

TREE PLANTING NOTES:

- DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, DOMINANT LEADERS, OR BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS & LATERAL BRANCHES MAY BE PRUNED. DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
- MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE.
- SET TOP OF ROOT BALL 12 INCHES HIGHER THAN SURROUNDING GRADE.
- APPLY 3" THICK WOOD MULCH, DO NOT PLACE MULCH IN DIRECT CONTACT W/ TREE TRUNK.
- APPLY TREE WRAP TO TRUNK FROM THE 6TH UPWARD, SECURE W/ TAPE.
- EACH TREE MUST BE PLANTED SUCH THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL.
- TREES WHERE THE FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL W/ SOIL.
- REMOVE ALL TWINE ROPE, WIRE AND BURLAP FROM THE UPPER 1/3 OF ROOT BALL (REMOVE WIRE BASKETS).
- PLACE ALL ROOT BALLS ON UN-EXCAVATED OR TAMPED SOIL. TYP.

STAKING REQUIREMENTS:

- STAKING SHALL BE W/ APPROVAL OF LANDSCAPE ARCHITECT, IF TREE WILL NOT BE ABLE TO SUPPORT ITSELF (DEFENSES OR SPREADS).
- WIRE / CABLE SHALL BE GALV. 14-GAUGE FOR TREES UNDER 2 1/2" CAL. 12-GAUGE FOR TREES OVER 2 1/2" CAL.
- TIGHTEN WIRE / CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. PLASTIC HOSE SHALL BE LONG ENOUGH TO ACCOMMODATE 1 1/2" OF GROWTH.
- STAKES SHALL BE 1 1/2" x 1 1/2" HARDWOOD OR EQUIV.

PERENNIAL PLANTING NOTES:

- APPLY 3" THICK BED OF MULCH ON PERENNIAL PLANT BED. DO NOT COVER PLANTS.
- THOROUGHLY MIX COMPOST IN TOP 5" OF SOIL.
- BREAK UP EXISTING SOIL TO A DEPTH OF 30".
- PROVIDE NEW TOPSOIL FOR TOP 24" OF PLANTING BED.

SHRUB PLANTING NOTES:

- SET SHRUBS AT SAME DEPTH AT WHICH IT GREW IN THE FIELD OR CONTAINER.
- PRUNE, TRIM & SHAPE SHRUBS IN ACCORDANCE W/ STANDARD HORTICULTURAL PRACTICE.

INITIAL WATERING:

- WHEN BACKFILL IS 2/3 COMPLETE, WATER THOROUGHLY UNTIL NO MORE IS ABSORBED.



PLANT LIST

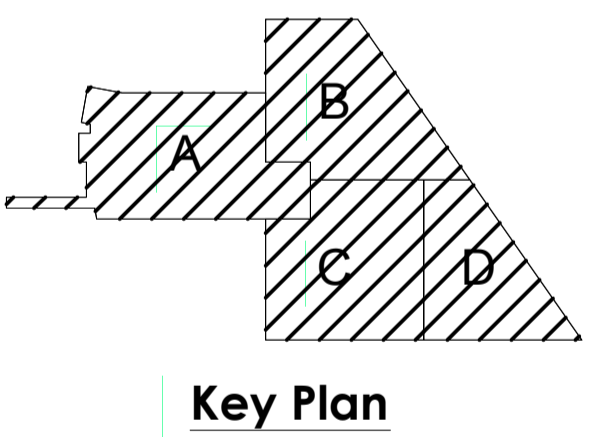
| SYMBOL | BOTANICAL NAME | COMMON NAME | SIZE & METHOD OF HANDLING | DESIGN HEIGHT & SPREAD |
|-------------------|---------------------------------------|--------------------------------|---------------------------------|------------------------|
| TREES | | | | |
| AL | AMELANCHER LAEVIS | ALLEGHENY SERVICEBERRY | 2" CAL. B&B, 12 HT MIN. | 30" HEIGHT, 40" SPREAD |
| SR | SYRINGA RECTICORNATA 'IVORY SILK' | IVORY SILK JAPANESE TREE LILAC | 2" CAL. B&B, 12 HT MIN. | 50" HEIGHT, 30" SPREAD |
| UA | ULMUS JAPONICA X WILSONIANA 'MORTON' | ACCOLADE ELM | 2" CAL. B&B, 12 HT MIN. | 50" HEIGHT, 40" SPREAD |
| PGD | PICEA GLAUCA VAR. DENSATA | BLACK HILLS SPRUCE | 2" CAL. B&B, 12 HT MIN. | 50" HEIGHT, 40" SPREAD |
| QA | QUERCUS ALBA | WHITE OAK | 2" CAL. B&B, 12 HT MIN. | 50" HEIGHT, 40" SPREAD |
| SHRUBS | | | | |
| AM | ARONIA MELANOCARPA 'AUTUMN MAGIC' | AUTUMN MAGIC BLACK CHOKERBERRY | #3 CONTI, 12" HT MIN W/ 4 CANES | 4" HEIGHT, 4" SPREAD |
| BGM | BOXYS 'GREEN MOUND' | GREEN MOUND BOXWOOD | #3 CONTI, 12" HT MIN W/ 4 CANES | 3" HEIGHT, 3" SPREAD |
| CS | CORNUS SERICEA 'BALLADELINE' | FIRE DANCE DOGWOOD | #3 CONTI, 12" HT MIN W/ 4 CANES | 4" HEIGHT, 5" SPREAD |
| JP | JUNIPER PHITZERIANA 'SEA GREEN' | SEA GREEN JUNIPER | #3 CONTI, 12" HT MIN W/ 4 CANES | 4" HEIGHT, 4" SPREAD |
| PBP | PRUNUS BESSEYI 'PAWNEE BUTTES' | PAWNEE BUTTES SAND CHERRY | #3 CONTI, 12" HT MIN W/ 4 CANES | 18" HEIGHT, 4" SPREAD |
| VC | VIBURNUM CARLESI | KORBANSPIECE VIBURNUM | #3 CONTI, 12" HT MIN W/ 4 CANES | 5" HEIGHT, 5" SPREAD |
| PERENNIALS | | | | |
| AH | AMSONIA HUBRICHII | BLUESTAR | NO. 1 CONTAINER, 36" SPACING | 30" HEIGHT, 30" SPREAD |
| HHR | HEMEROCALLIS 'HAPPY RETURNS' | HAPPY RETURNS DAYLILY | NO. 1 CONTAINER, 18" SPACING | 18" HEIGHT, 18" SPREAD |
| LL | LIATRIS LIGULISTYLIS | LARGE HEADED LIATRIS | NO. 1 CONTAINER, 24" SPACING | 42" HEIGHT, 18" SPREAD |
| LMB | LIRIOPE MUSCARI BIG BLUE' | BLUG BLUE LILYTURF | NO. 1 CONTAINER, 12" SPACING | 12" HEIGHT, 12" SPREAD |
| GRASSES | | | | |
| BGB | BOUTELLOIA GRACILIS 'BLONDE AMBITION' | BLONDE AMBITION BLUE GRAMA | NO. 1 CONTAINER, 24" SPACING | 30" HEIGHT, 30" SPREAD |
| CL | CINNAMOMUM LITSEIOLIBUM | NORTHERN SEA OAKS | NO. 1 CONTAINER, 24" SPACING | 30" HEIGHT, 24" SPREAD |
| PVNW | CALAMAGROSTIS BRACHYTRICHA | NORTHWIND SWITCH GRASS | NO. 1 CONTAINER, 24" SPACING | 30" HEIGHT, 24" SPREAD |
| SH | SPOROBOLUS HETEROLEPIS | RAIRIE DROPSSEED | NO. 1 CONTAINER, 24" SPACING | 24" HEIGHT, 24" SPREAD |
| SSB | SCHIZACHYRIUM SCOPARUM 'THE BLUES' | THE BLUES LITTLE BLUESTEM | NO. 1 CONTAINER, 24" SPACING | 24" HEIGHT, 24" SPREAD |

SOD TYPE 'A'

SOD TYPE 'A' IS BASED ON UNITED SEEDS 'SUPER TURF 1' SEED MIXTURE OR APPROVED EQUAL.

| SUPER TURF 1 MIXTURE SPECIES | % OF GRASS MIX |
|-----------------------------------|----------------|
| FIRECRACKER TURF TYPE TALL FESCUE | 22.05% |
| MUSTANG TURF TYPE TALL FESCUE | 22.05% |
| FIRENZA TURF TYPE TALL FESCUE | 22.05% |
| SPYDER LS TURF TYPE TALL FESCUE | 22.05% |

SITE PLANTING PLAN (FOR REFERENCE ONLY)
 SCALE: 1"=20'-0"

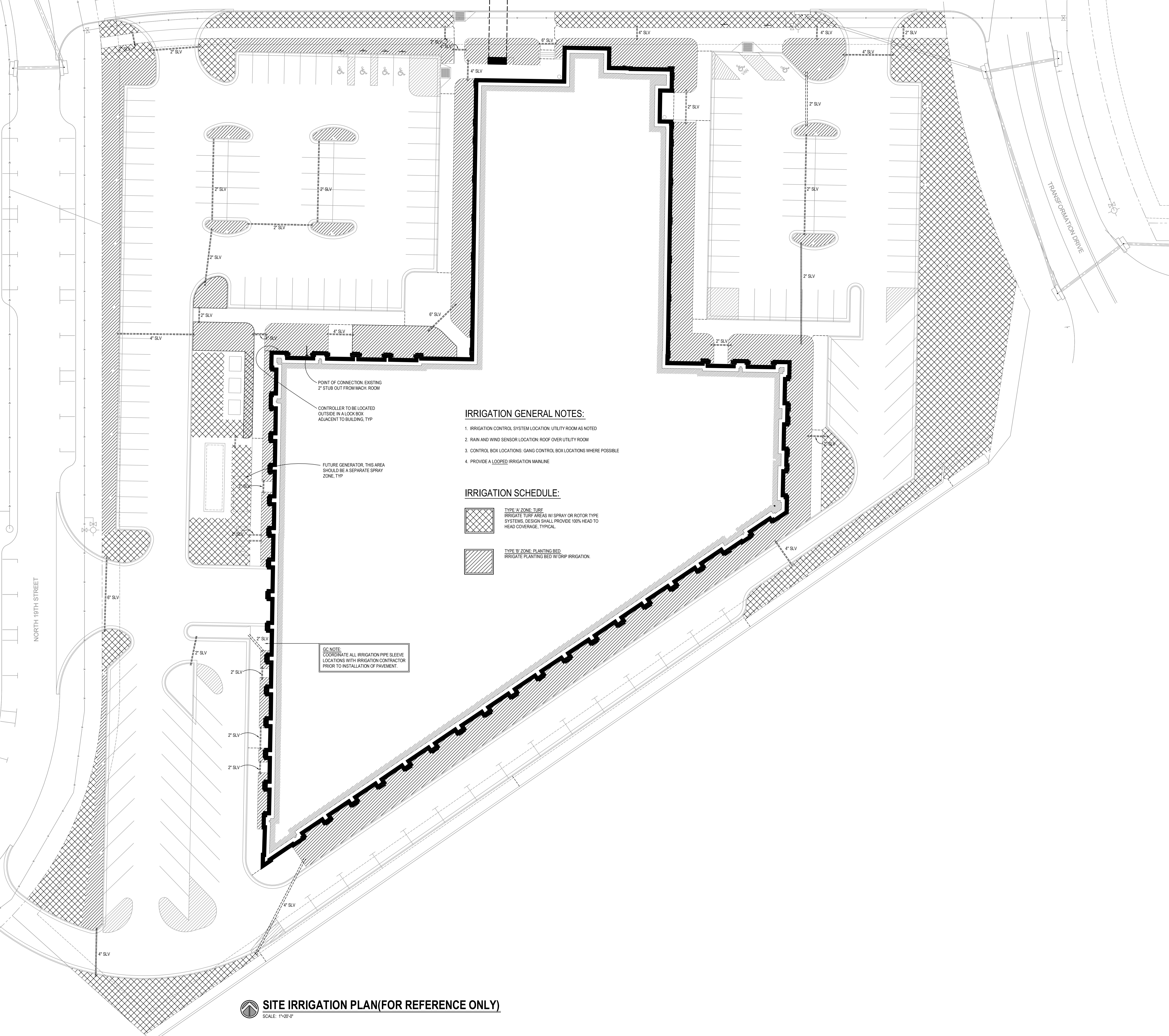


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Lincoln, Nebraska
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Davis Design.: 12-0077
BVH No.: L12018.unl
November 27, 2013

Site Irrigation Plan
(For Reference Only)

L4.01

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IRRIGATION GENERAL NOTES:

1. IRRIGATION CONTROL SYSTEM LOCATION: UTILITY ROOM AS NOTED
2. RAIN AND WIND SENSOR LOCATION: ROOF OVER UTILITY ROOM
3. CONTROL BOX LOCATIONS: GANG CONTROL BOX LOCATIONS WHERE POSSIBLE
4. PROVIDE A LOOPED IRRIGATION MAINLINE

IRRIGATION SCHEDULE:

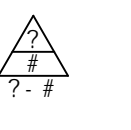
- TYPE 'A' ZONE: TURF
IRRIGATE TURF AREAS W/ SPRAY OR ROTOR TYPE SYSTEMS. DESIGN SHALL PROVIDE 100% HEAD TO HEAD COVERAGE, TYPICAL.
- TYPE 'B' ZONE: PLANTING BED
IRRIGATE PLANTING BED W/ DRIP IRRIGATION.

POINT OF CONNECTION EXISTING
2" STUB OUT FROM MACH. ROOM

CONTROLLER TO BE LOCATED
OUTSIDE IN A LOCK BOX
ADJACENT TO BUILDING, TYP

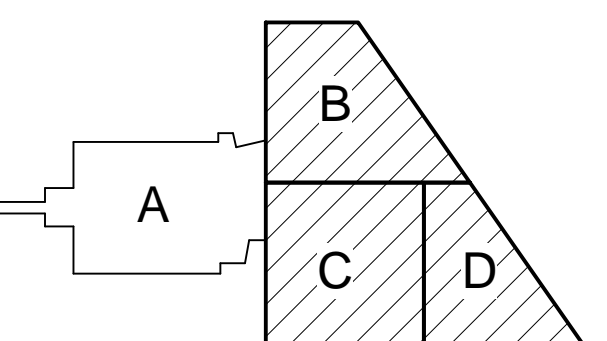
FUTURE GENERATOR, THIS AREA
SHOULD BE A SEPARATE SPRAY
ZONE, TYP.

GC NOTE:
COORDINATE ALL IRRIGATION PIPE SLEEVE
LOCATIONS WITH IRRIGATION CONTRACTOR
PRIOR TO INSTALLATION OF PAVEMENT.



SHEET HISTORY:

12/11/2013 AS PER ADDENDUM #01



Key Plan

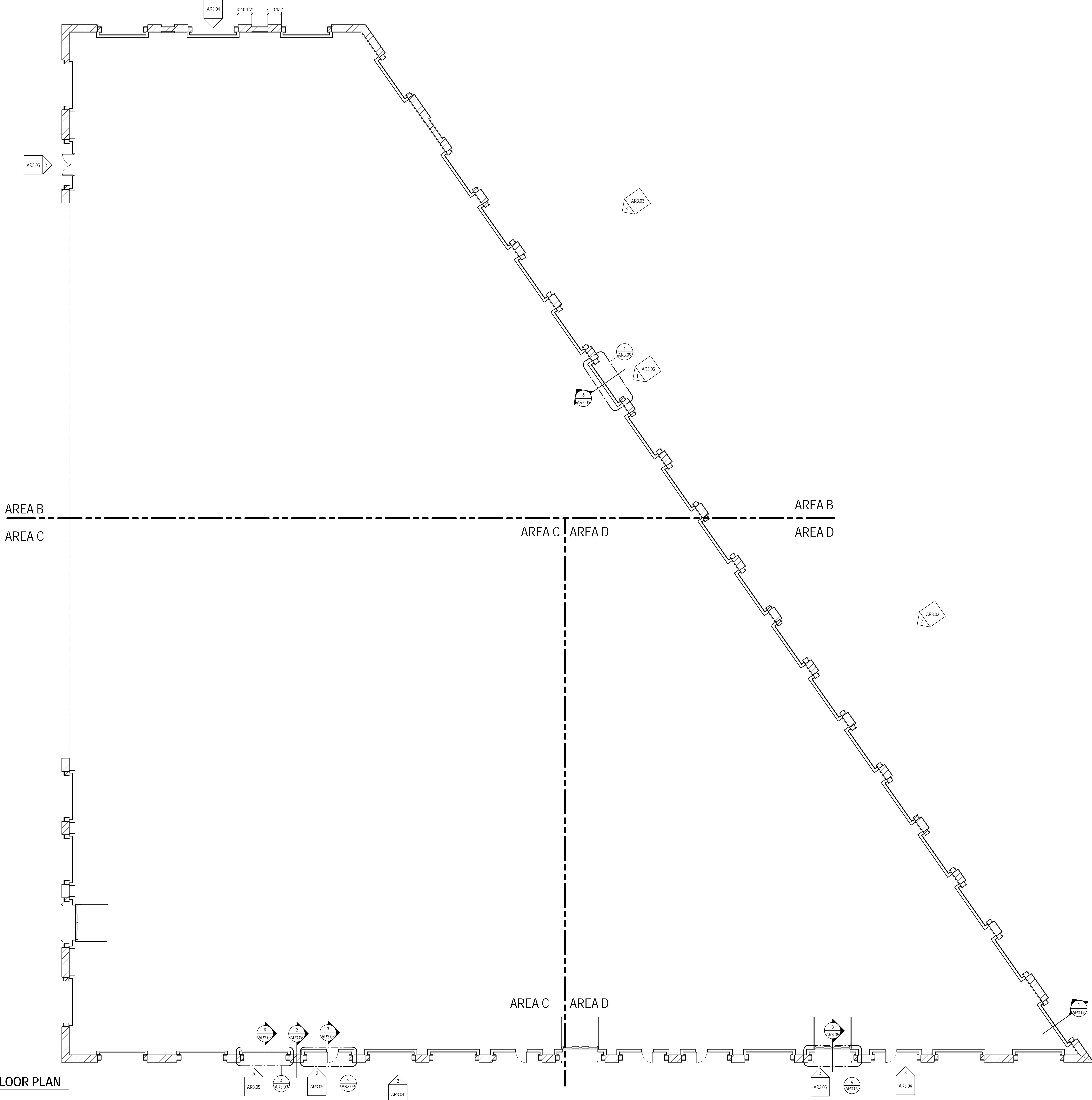
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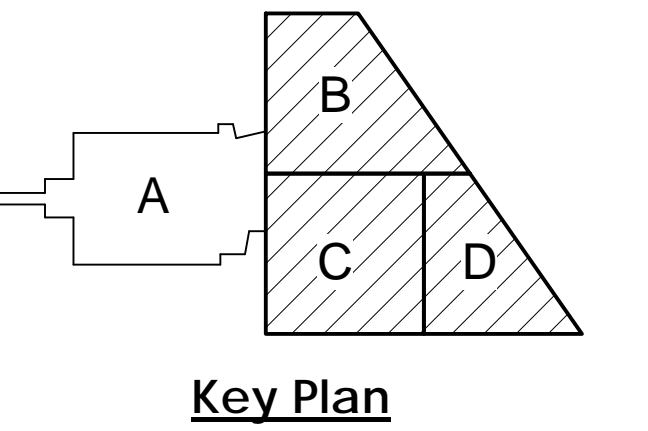


OVERALL FIRST FLOOR PLAN

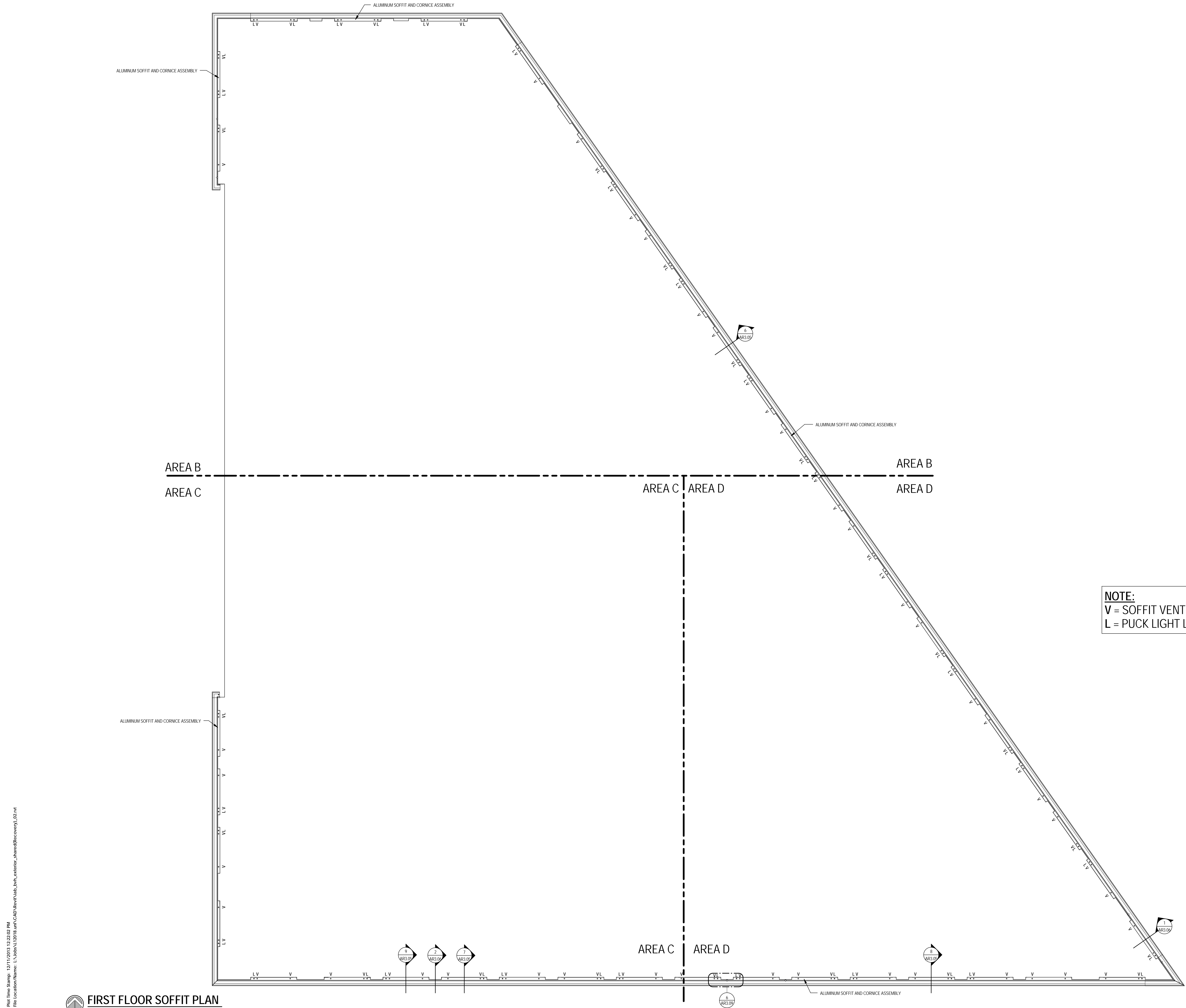
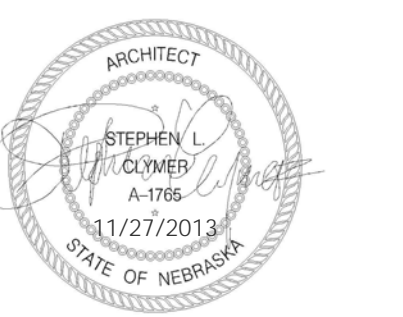
AR3.01



OVERALL FIRST FLOOR PLAN
SCALE: 3/32" = 1'-0"



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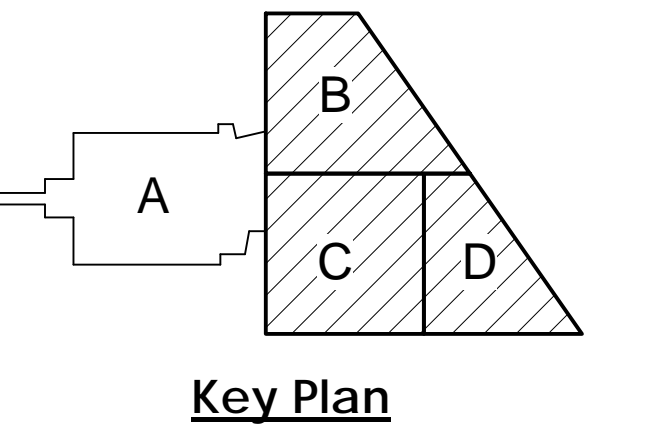


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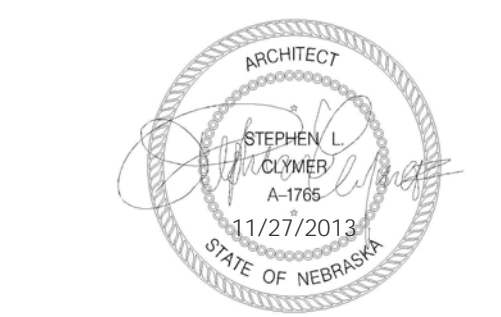


Bahr Vermeer Hoecker Architects
 440 N 8th Street, Suite 100
 Lincoln, NE 68508
 V 402.475.4551
 F 402.475.0226
 www.bvh.com

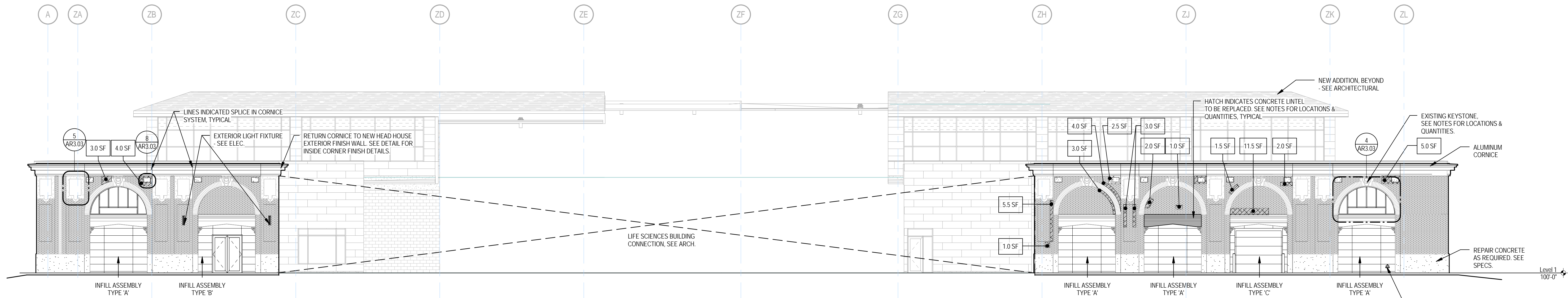
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 ISSUED 11/27/2013 AS PER CONSTRUCTION DOCUMENTS
 12/11/2013 AS PER ADDENDUM #01



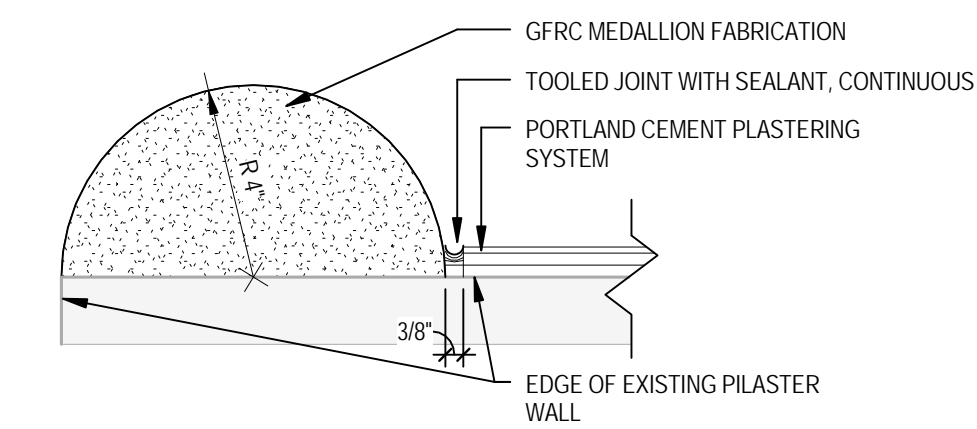
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IAB - EXTERIOR ELEVATIONS
AR3.03



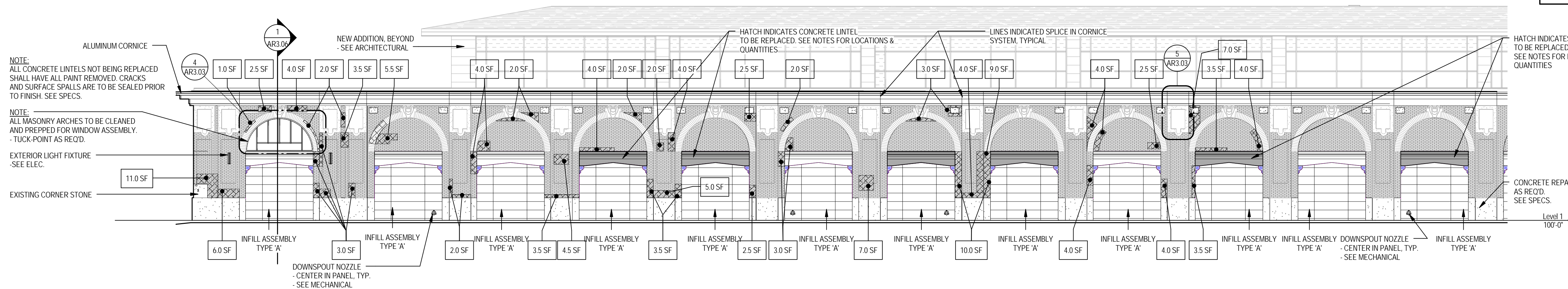
1 NORTH ELEVATION
 SCALE: 3/32" = 1'-0"



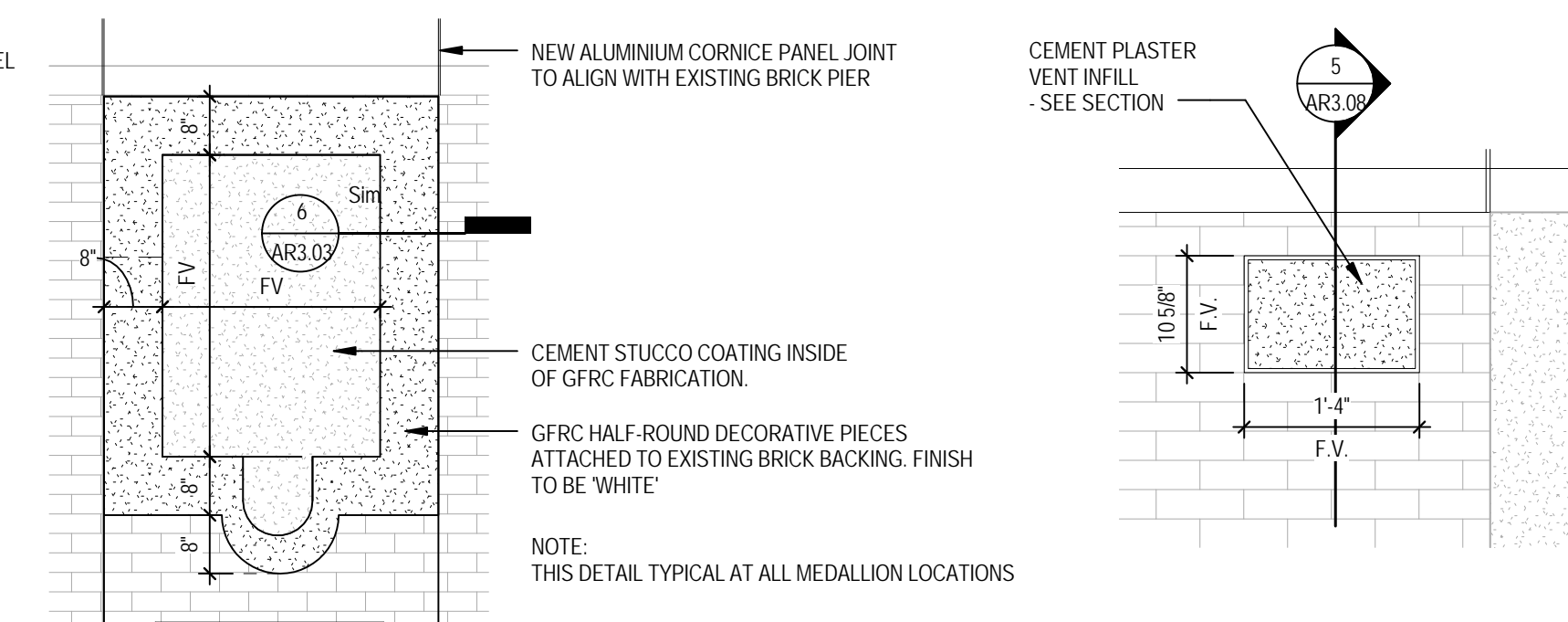
6 MEDALLION SECTION DETAIL
 SCALE: 3" = 1'-0"



7 MEDALLION INSPIRATION
 SCALE: NTS FOR REFERENCE ONLY



2 SOUTH ELEVATION - PARTIAL 1 (WEST END)
 SCALE: 3/32" = 1'-0"



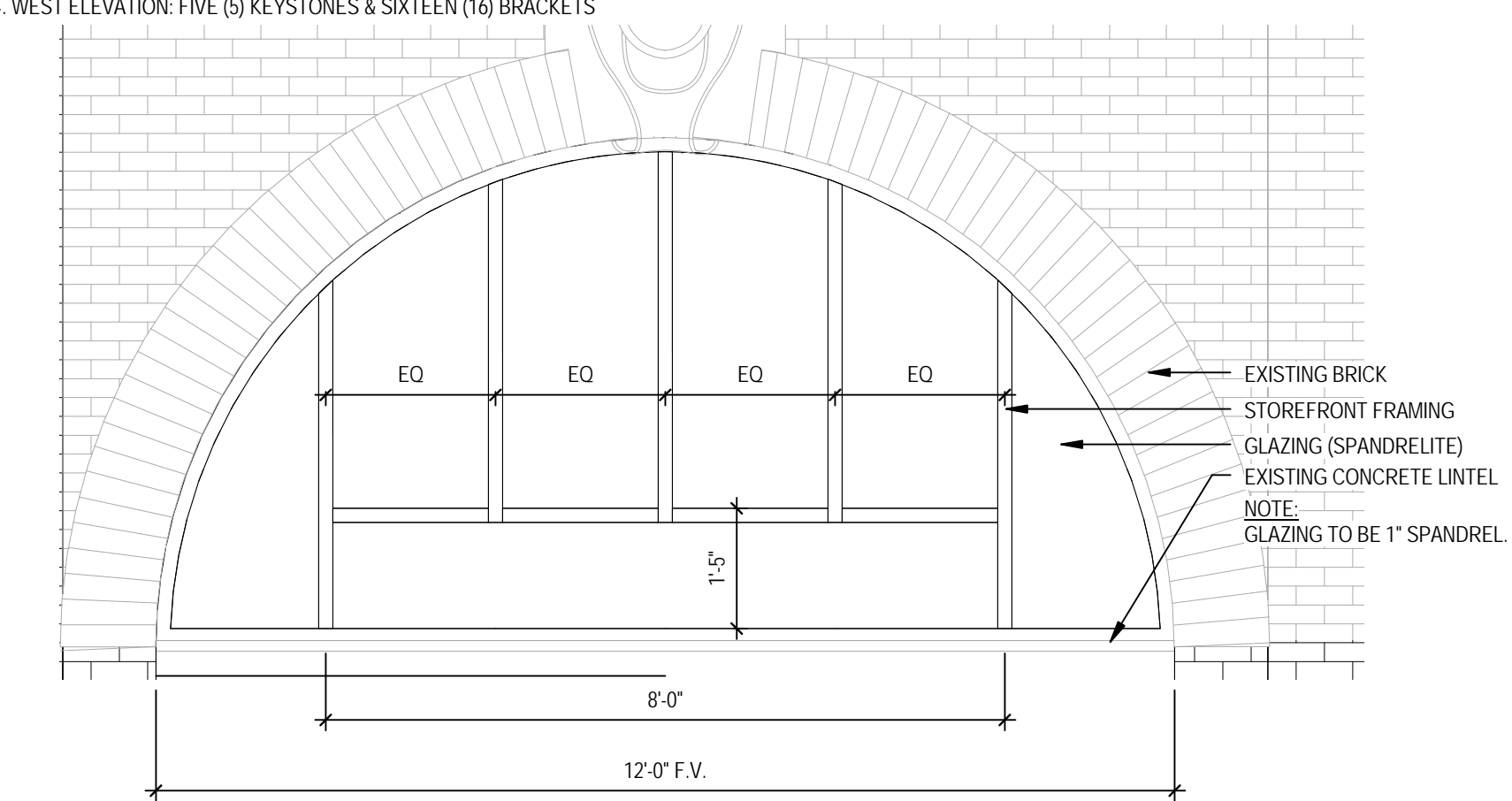
5 MEDALLION DETAIL
 SCALE: 1/2" = 1'-0"

8 EXTERIOR VENT INFILL DETAIL
 SCALE: 3/4" = 1'-0"

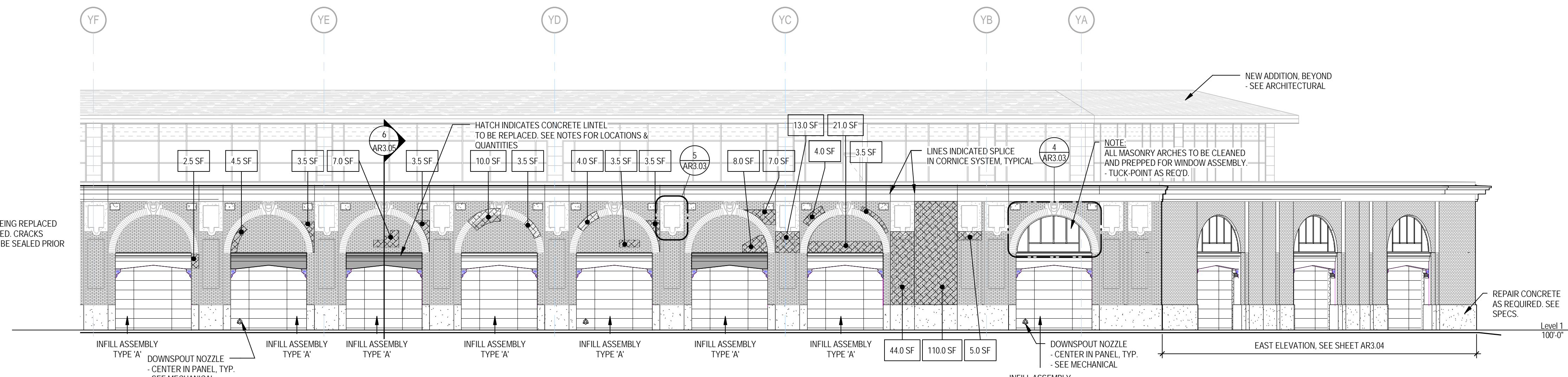
NOTES:
 A. SHADED LINTELS TO BE REPLACED WITH NEW. SEE STRUCTURAL DRAWINGS.
 B. MEDALLION LOCATIONS - PATCH AND REPAIR SURFACE FOR ATTACHMENT. PRIME AND PAINT (WHITE). SEE DETAIL SA83.03.
 C. EXISTING BUILT-UP CONCRETE BASES: REMOVE ALL LOOSE / SPALLED CONCRETE TO SOLID BASE SURFACE. REMOVE ALL EXISTING PAINT. FILL VOIDS & SUBTRACTIONS WITH FINISH CONCRETE TO BRING SURFACE BACK TO ORIGINAL PROFILE. PRIME & APPLY CONCRETE COATING (WHITE). THIS REPAIR IS APPLICABLE TO ALL EXPOSED SURFACES, INTERIOR & EXTERIOR.
 D. ALL EXTERIOR ATTACHMENTS, CONDUIT, GROMMETS, TIE-OFFS & SIGNAGE EMBEDS TO BE REMOVED. EXISTING ANCHOR VOIDS TO BE FILLED WITH SEALANT AND PAINTED OUT TO MATCH BRICK.
 E. REFER TO ARCHITECTURAL DRAWINGS FOR DOOR AND FRAME TYPES.

KEYSTONE & CORBELS TO BE REPLACED WITH GFRC FABRICATIONS. ALL LOCATIONS TO BE DETERMINED ON SITE WITH CONTRACTOR. APPROX. QUANTITIES AS FOLLOWS:
 1. NORTH ELEVATION: THREE (3) KEYSTONES & TWELVE (12) BRACKETS.
 2. SOUTH ELEVATION: FIVE (5) KEYSTONES & TWENTY (20) BRACKETS.
 3. EAST ELEVATION: ONE (1) KEYSTONE
 4. WEST ELEVATION: FIVE (5) KEYSTONES & SIXTEEN (16) BRACKETS

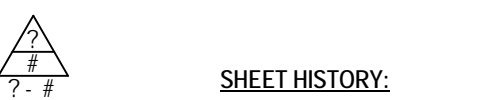
TUCK POINTING LEGEND
 SCALE: 1/4" = 1'-0"



4 WINDOW FRAME DETAIL (TYPICAL FOR ALL ARCHED WINDOWS)
 SCALE: 1/2" = 1'-0"

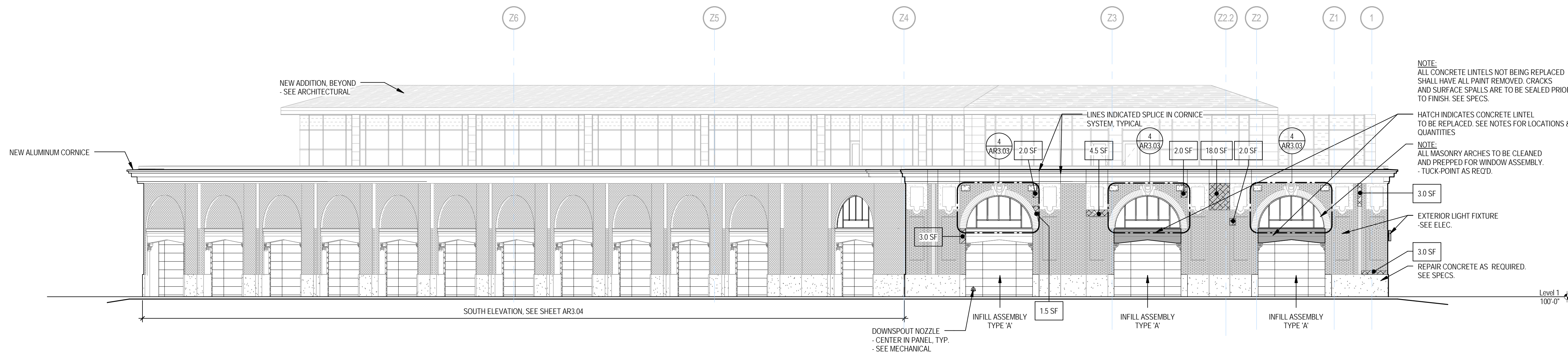


3 SOUTH ELEVATION - PARTIAL 2 (EAST END)
 SCALE: 3/32" = 1'-0"



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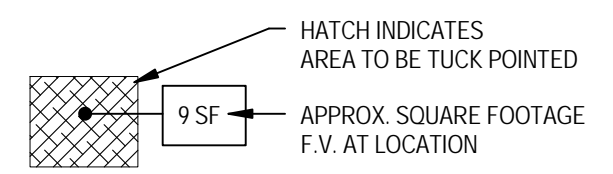
ISSUED 11/27/2013 AS PER CONSTRUCTION DOCUMENTS
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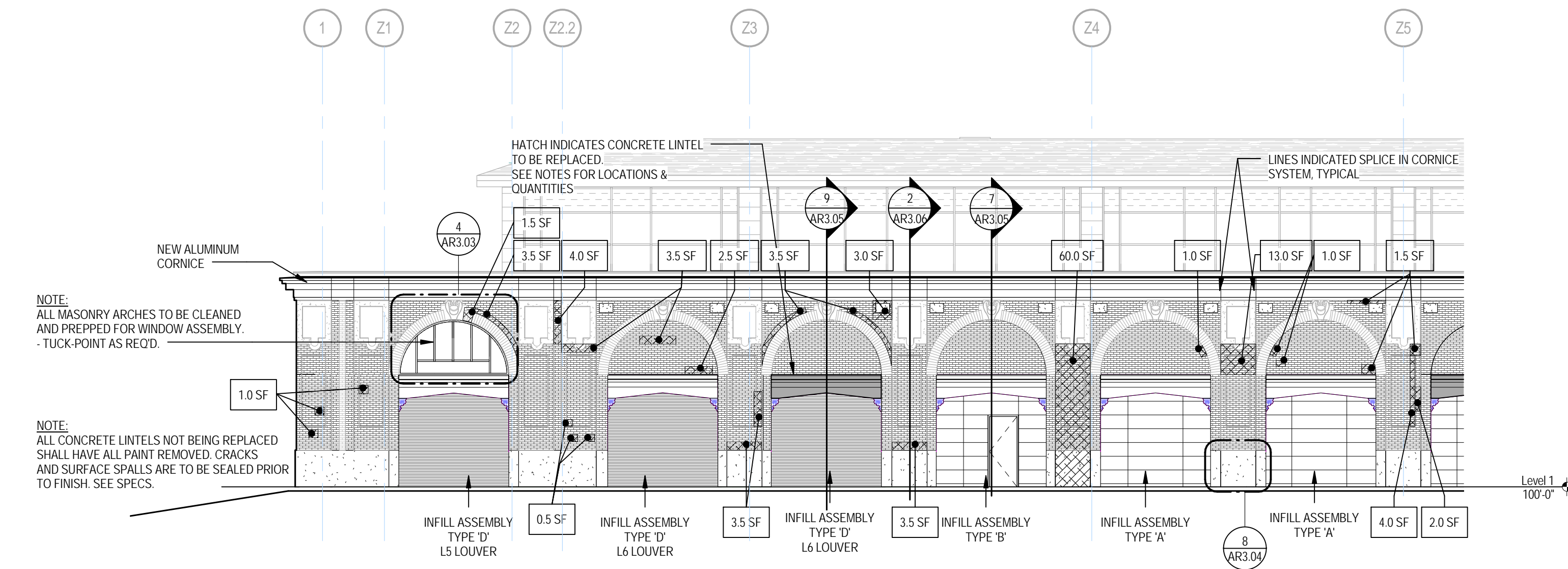
1 EAST ELEVATION
 SCALE: 3/32" = 1'-0"

- NOTES:**
- A. SHADED LINTELS TO BE REPLACED WITH NEW. SEE STRUCTURAL DRAWINGS
 - B. MEDALLION LOCATIONS - PATCH AND REPAIR SURFACE FOR ATTACHMENT. PRIME AND PAINT (WHITE). SEE DETAIL AR3.03
 - C. EXISTING BUILT-UP CONCRETE BASES: REMOVE ALL LOOSE / SPALLED CONCRETE TO SOLID BASE SURFACE. REMOVE ALL EXISTING PAINT. FILL VOIDS & SUBTRACTIONS WITH FINISH CONCRETE TO BRING SURFACE BACK TO ORIGINAL PROFILE. PRIME & APPLY CONCRETE COATING (WHITE). THIS REPAIR IS APPLICABLE TO ALL EXPOSED SURFACES INTERIOR & EXTERIOR.
 - D. ALL EXTERIOR ATTACHMENTS, CONDUIT, GROMMETS, TIE-OFFS & SIGNAGE EMBEDS TO BE REMOVED. EXISTING ANCHOR VOIDS TO BE FILLED WITH SEALANT AND PAINTED OUT TO MATCH BRICK.
 - E. REFER TO ARCHITECTURAL DRAWINGS FOR DOOR AND FRAME TYPES.

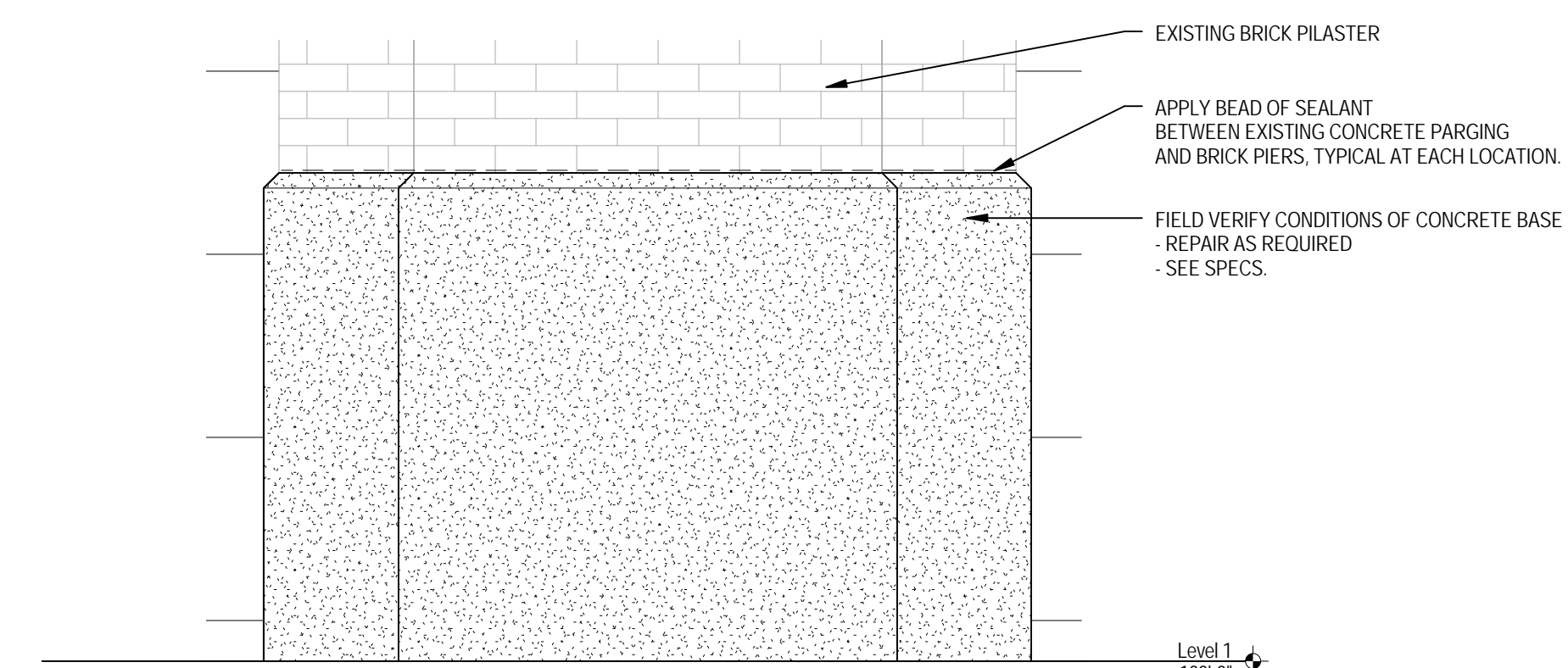
- KEYSTONE & CORBELS TO BE REPLACED WITH GFCR. FABRICATIONS. ALL LOCATIONS TO BE DETERMINED ON SITE WITH CONTRACTOR. APPROX. QUANTITIES AS FOLLOWS:
1. NORTH ELEVATION THREE (3) KEYSTONES & TWELVE (12) BRACKETS.
 2. SOUTH ELEVATION FIVE (5) KEYSTONES & TWENTY (20) BRACKETS.
 3. EAST ELEVATION ONE (1) KEYSTONE
 4. WEST ELEVATION FIVE (5) KEYSTONES & SIXTEEN (16) BRACKETS



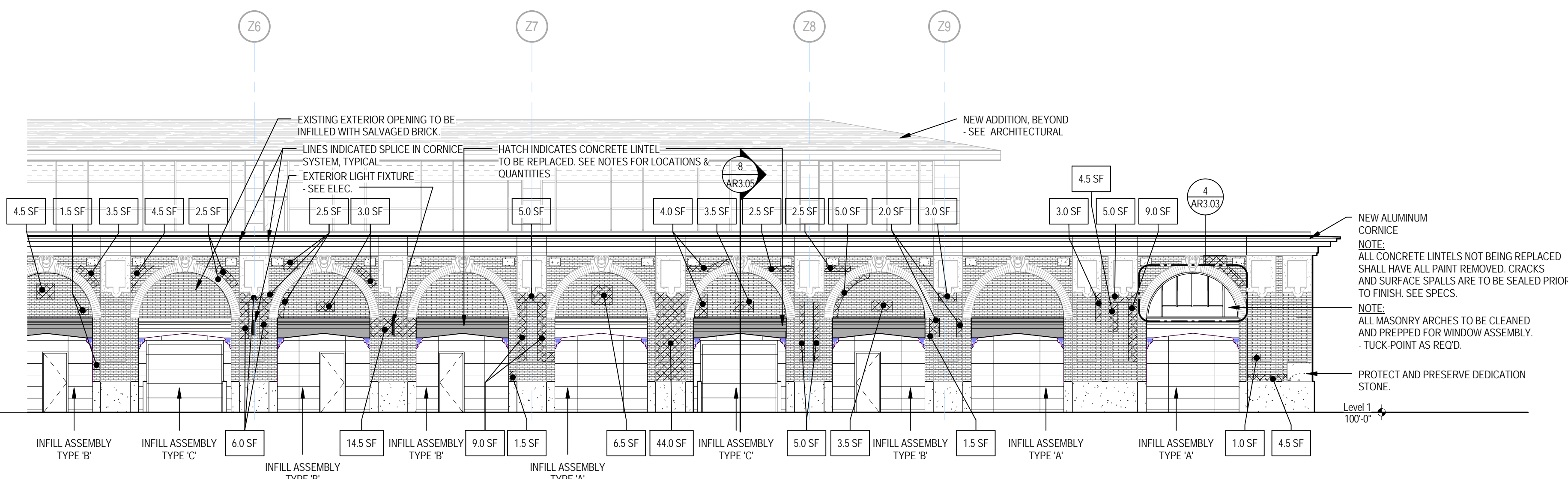
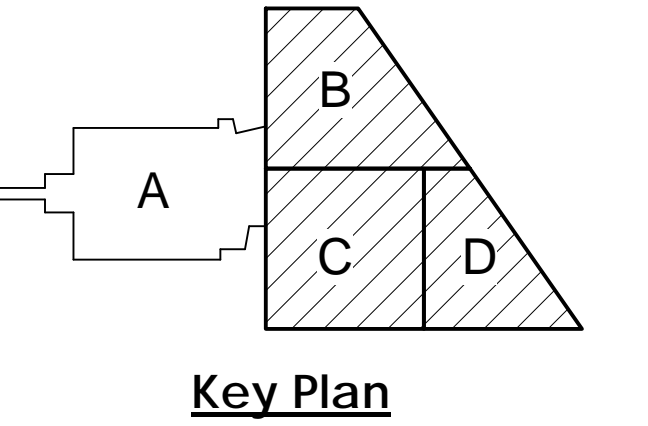
TUCK POINTING LEGEND
 SCALE: 1/4" = 1'-0"



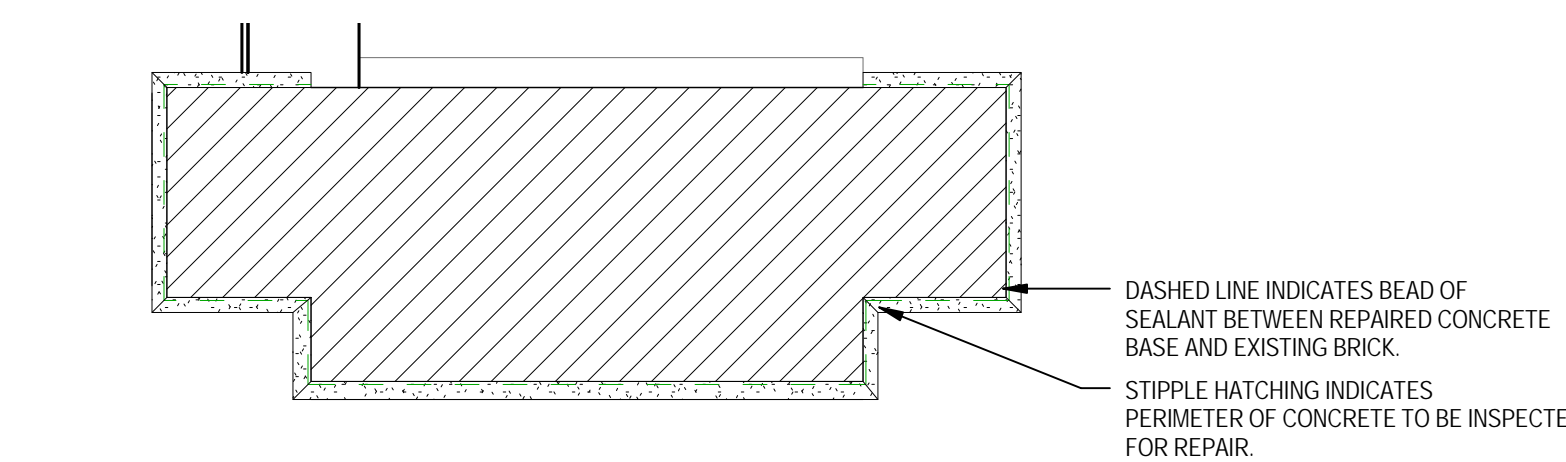
2 WEST ELEVATION - PARTIAL 1 (NORTH END)
 SCALE: 3/32" = 1'-0"



ELEVATION VIEW



3 WEST ELEVATION - PARTIAL 2 (SOUTH END)
 SCALE: 3/32" = 1'-0"



PLAN VIEW

4 BASE DETAIL - PILASTER
 SCALE: 3/4" = 1'-0"

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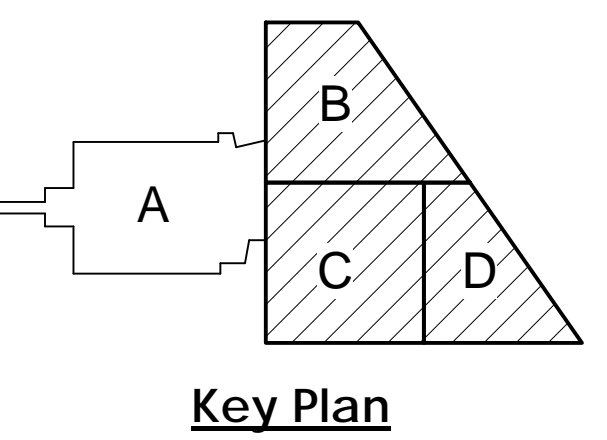


IAB - EXTERIOR ELEVATIONS

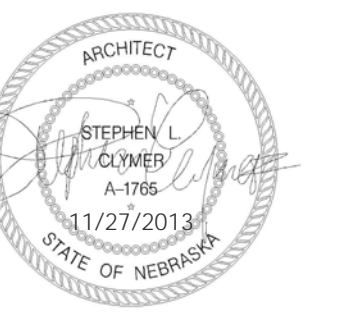
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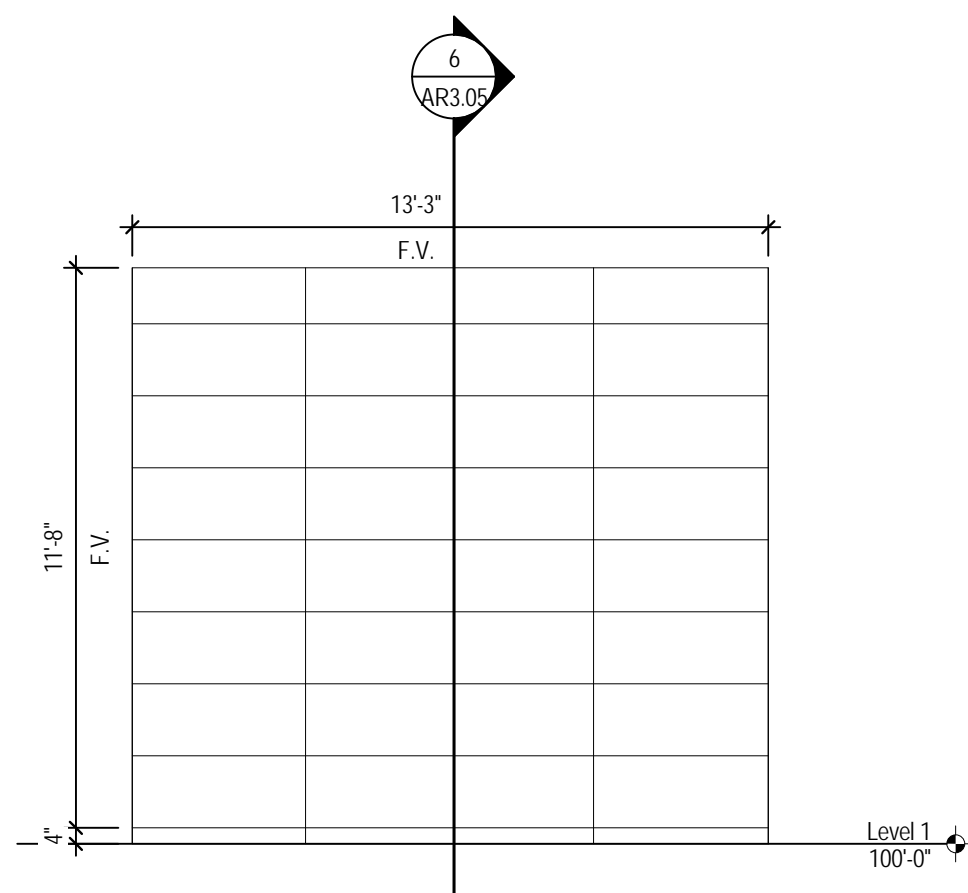


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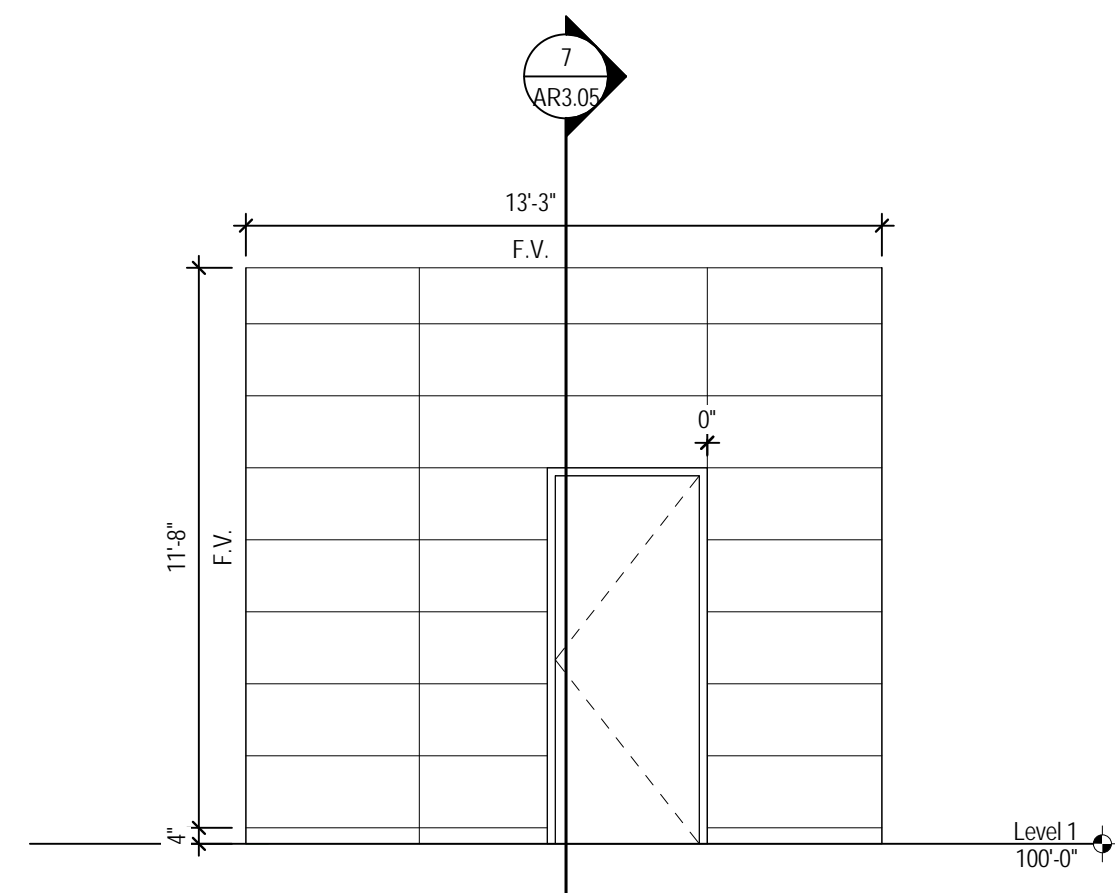


WALL SECTIONS

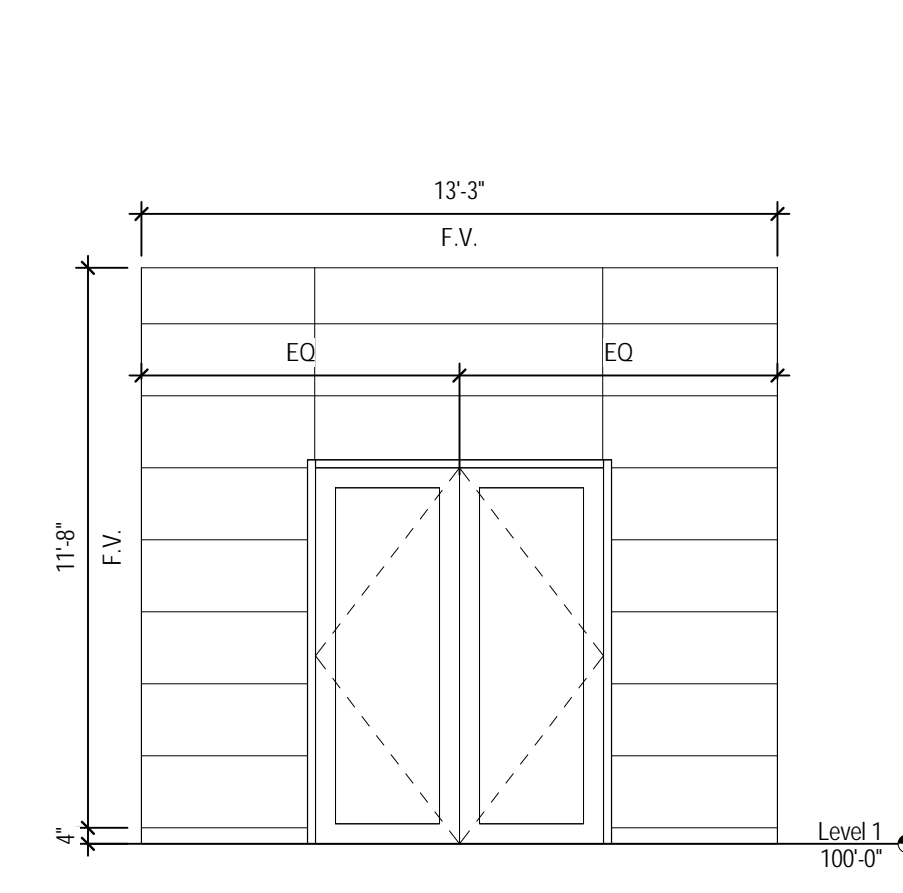
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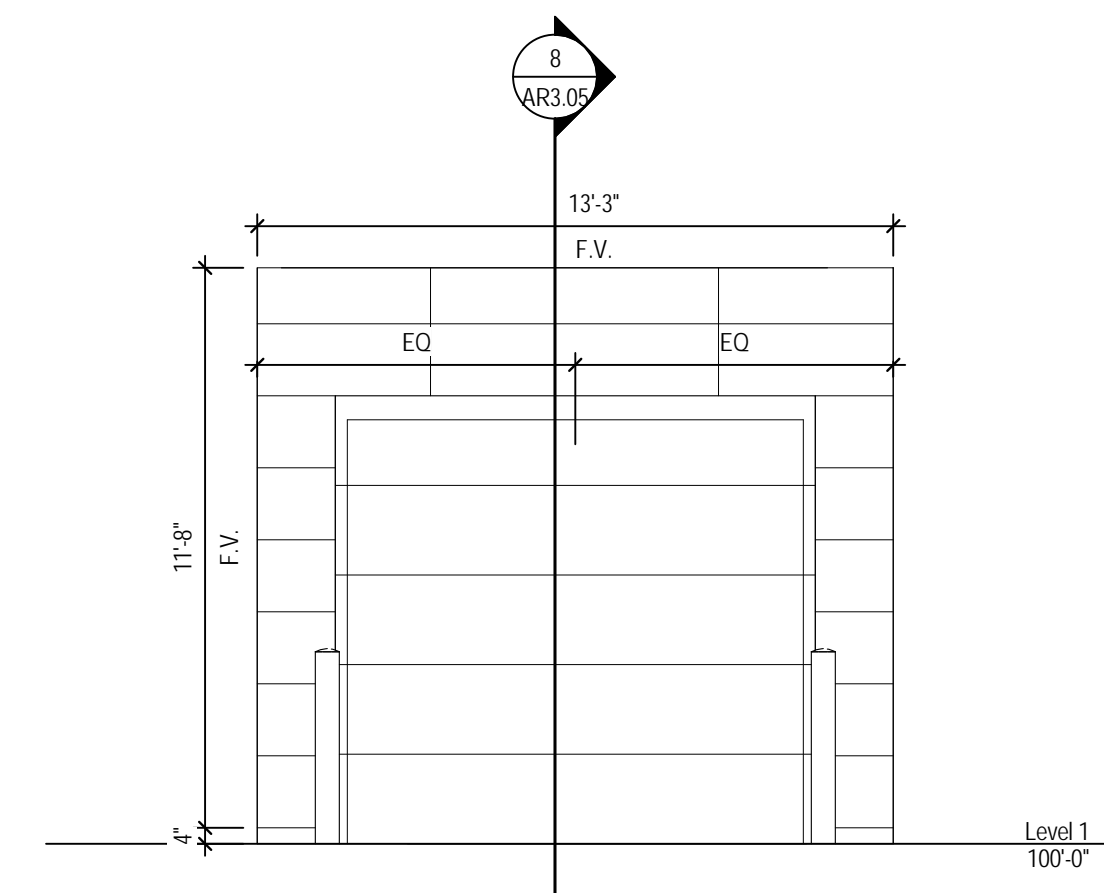
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SCALE: 1/4" = 1'-0"



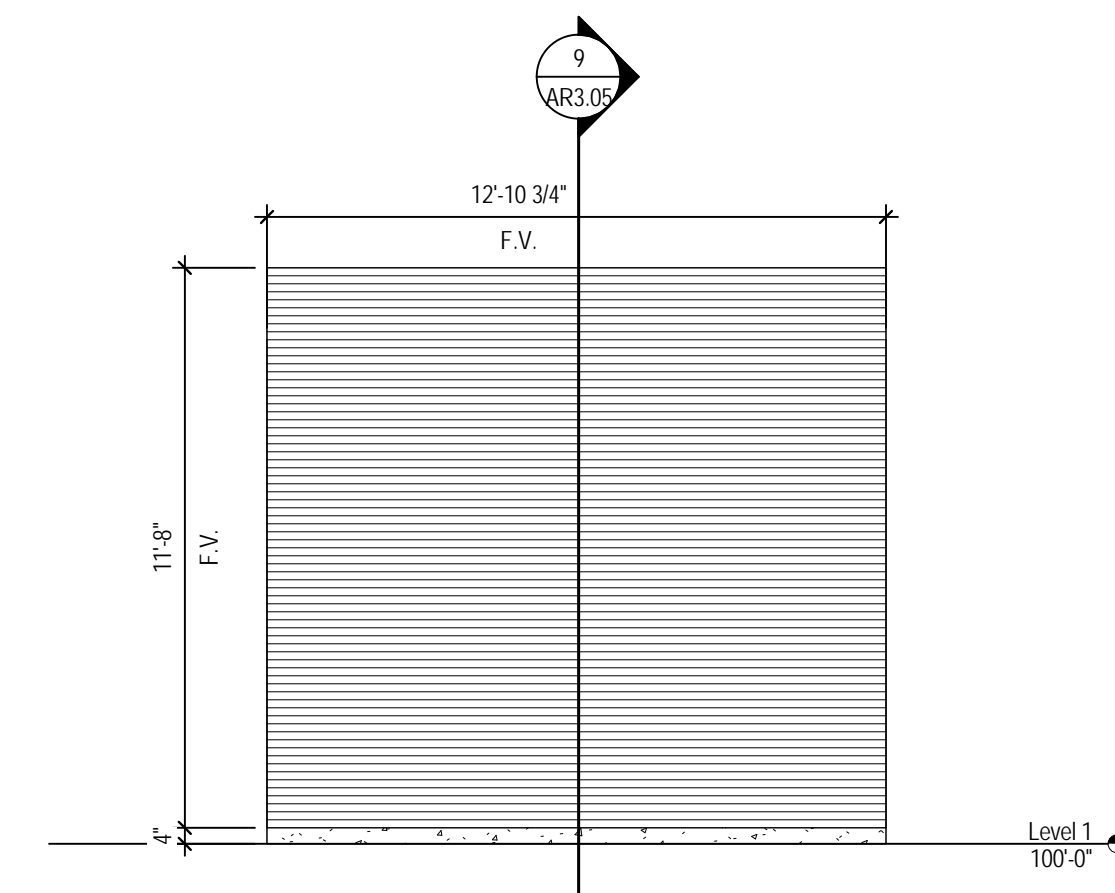
2 WALL TYPE 'B' - SINGLE
SCALE: 1/4" = 1'-0"



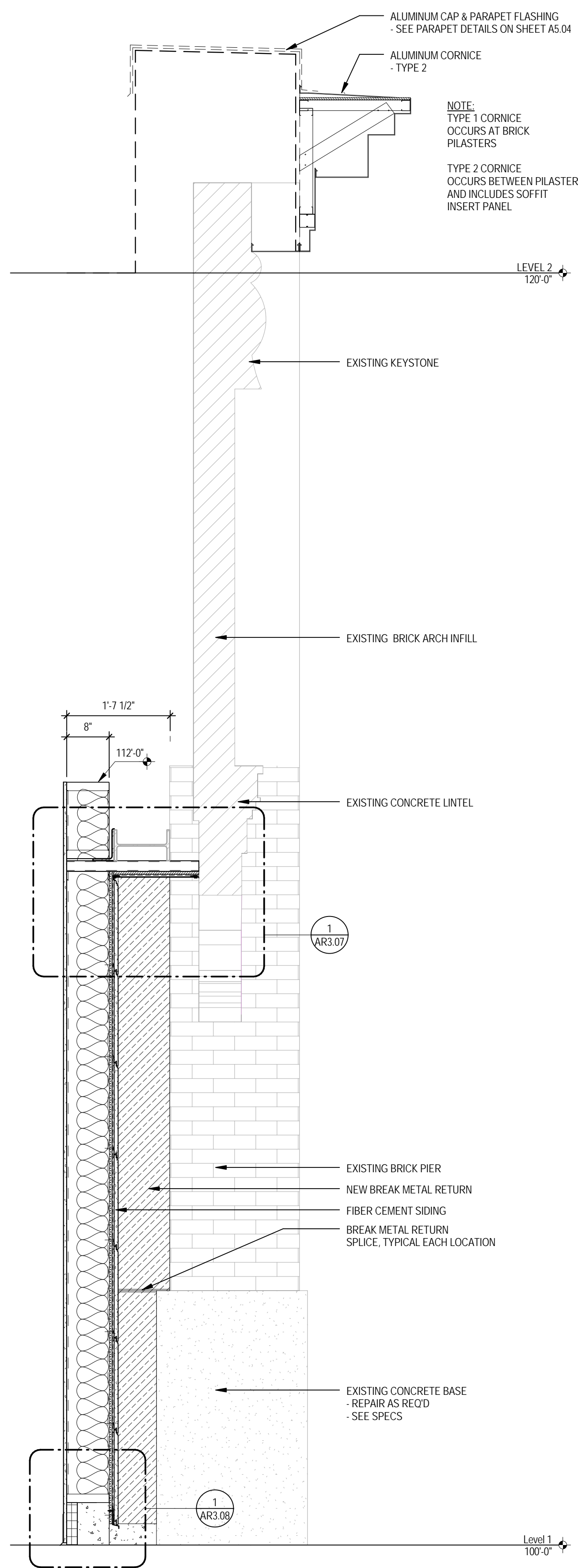
3 WALL TYPE 'B' - DOUBLE
SCALE: 1/4" = 1'-0"



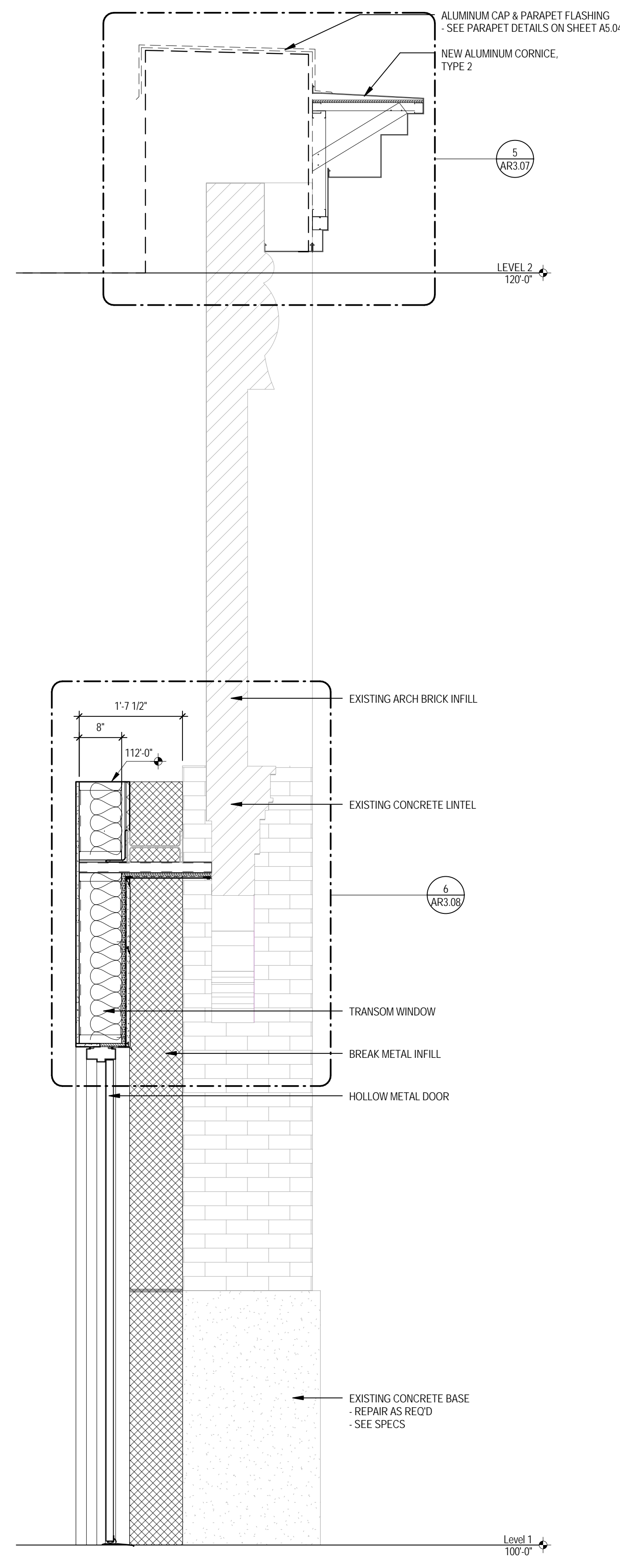
4 WALL TYPE 'C'
SCALE: 1/4" = 1'-0"



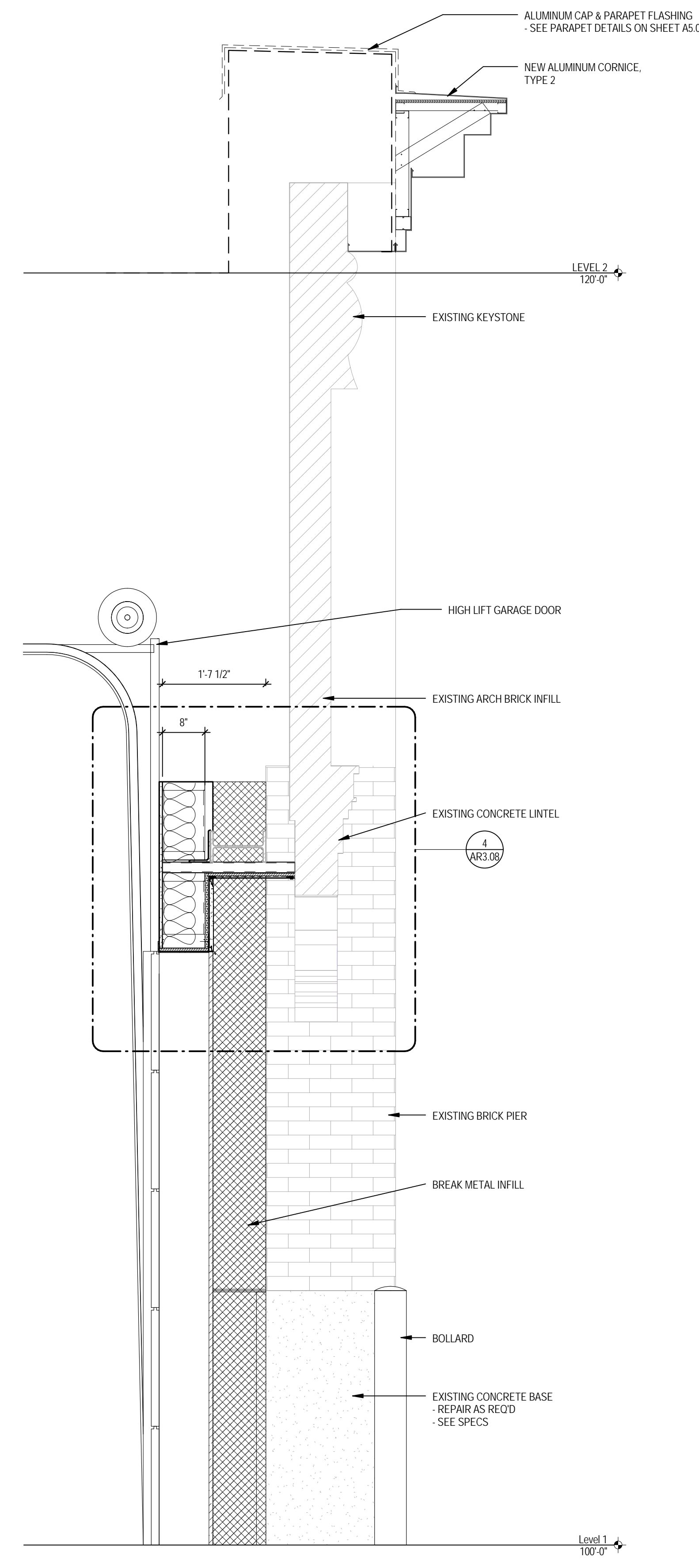
5 WALL TYPE 'D'
SCALE: 1/4" = 1'-0"



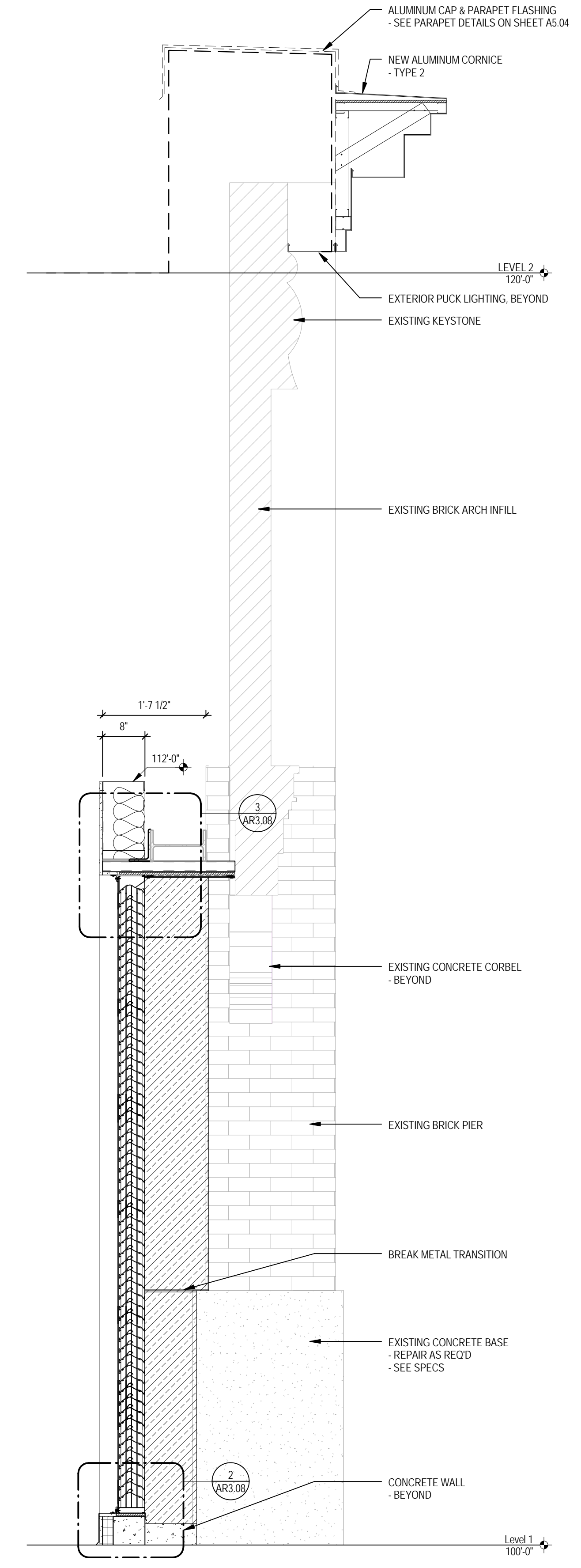
6 WALL SECTION - WALL TYPE 'A'
SCALE: 3/4" = 1'-0"



7 WALL SECTION - WALL TYPE 'B'
SCALE: 3/4" = 1'-0"



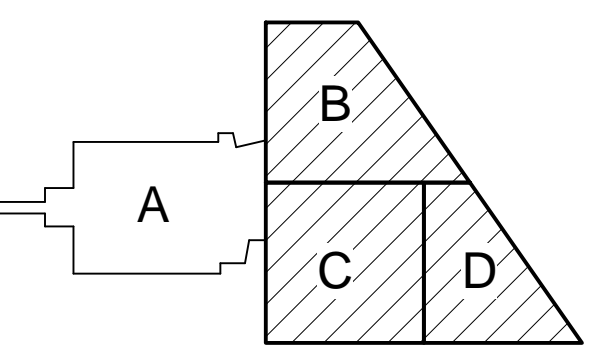
8 WALL SECTION - WALL TYPE 'C'
SCALE: 3/4" = 1'-0"



9 WALL SECTION - WALL TYPE 'D'
SCALE: 3/4" = 1'-0"



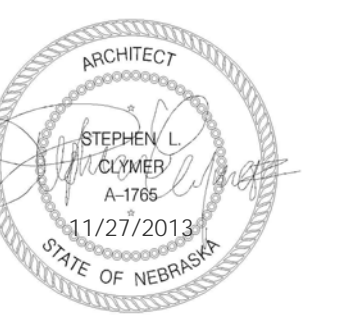
SHEET HISTORY:
12/11/2013 AS PER ADDENDUM #01



Key Plan

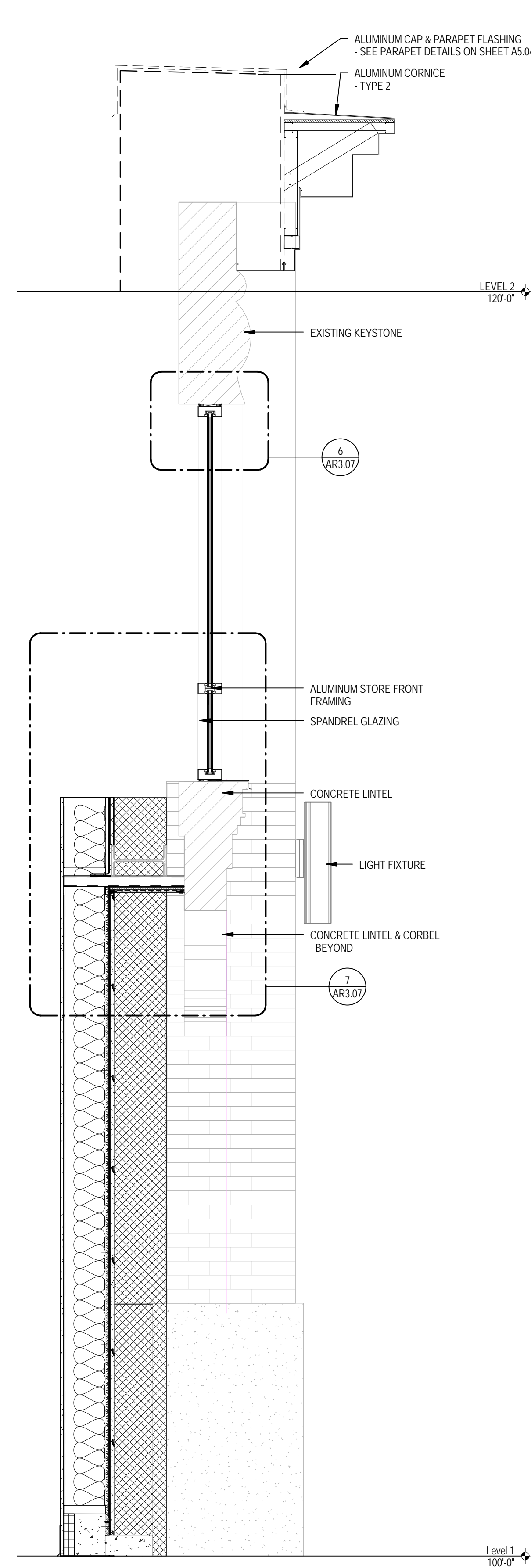
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NOVEMBER 27, 2013

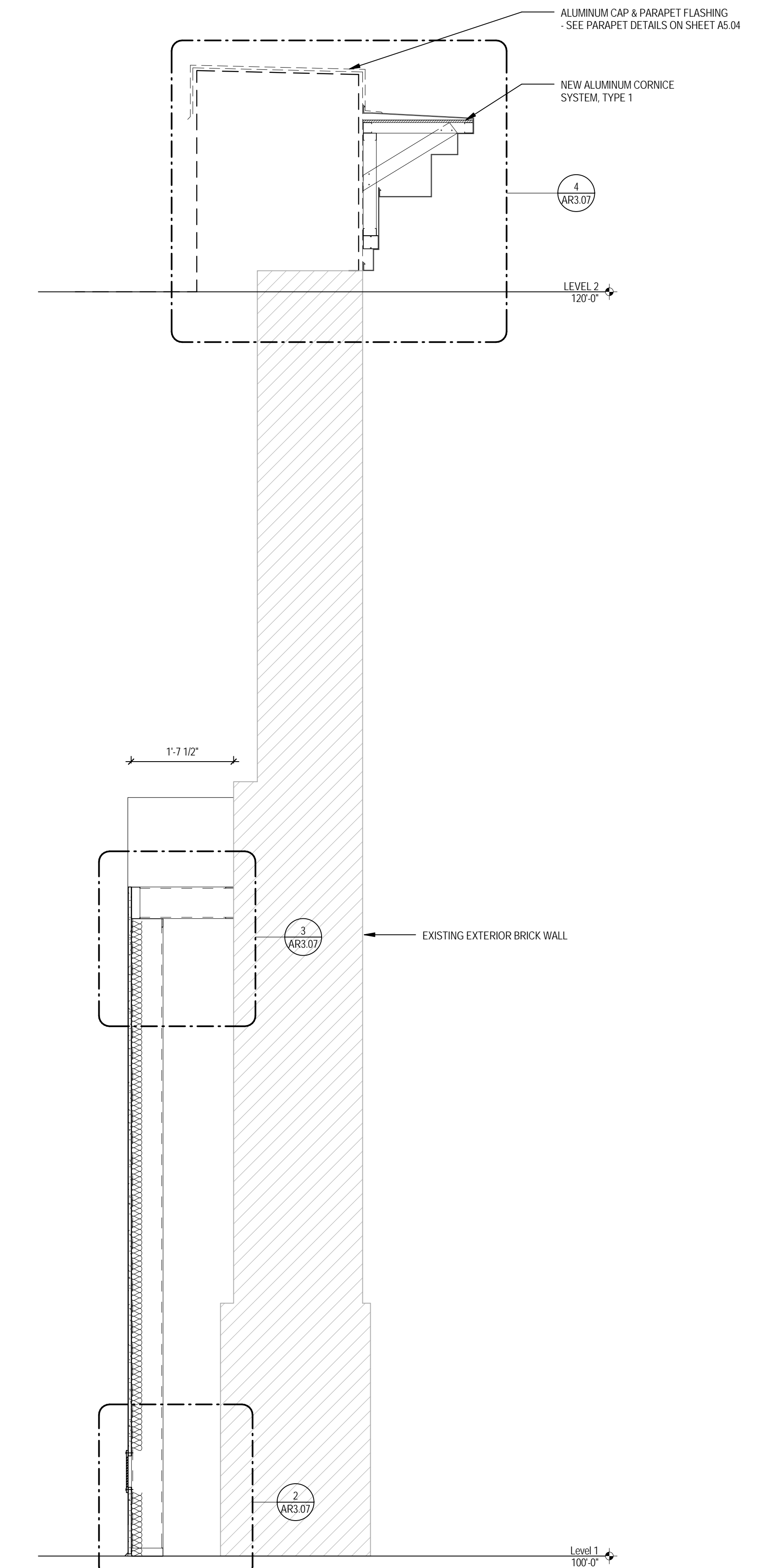


WALL SECTIONS

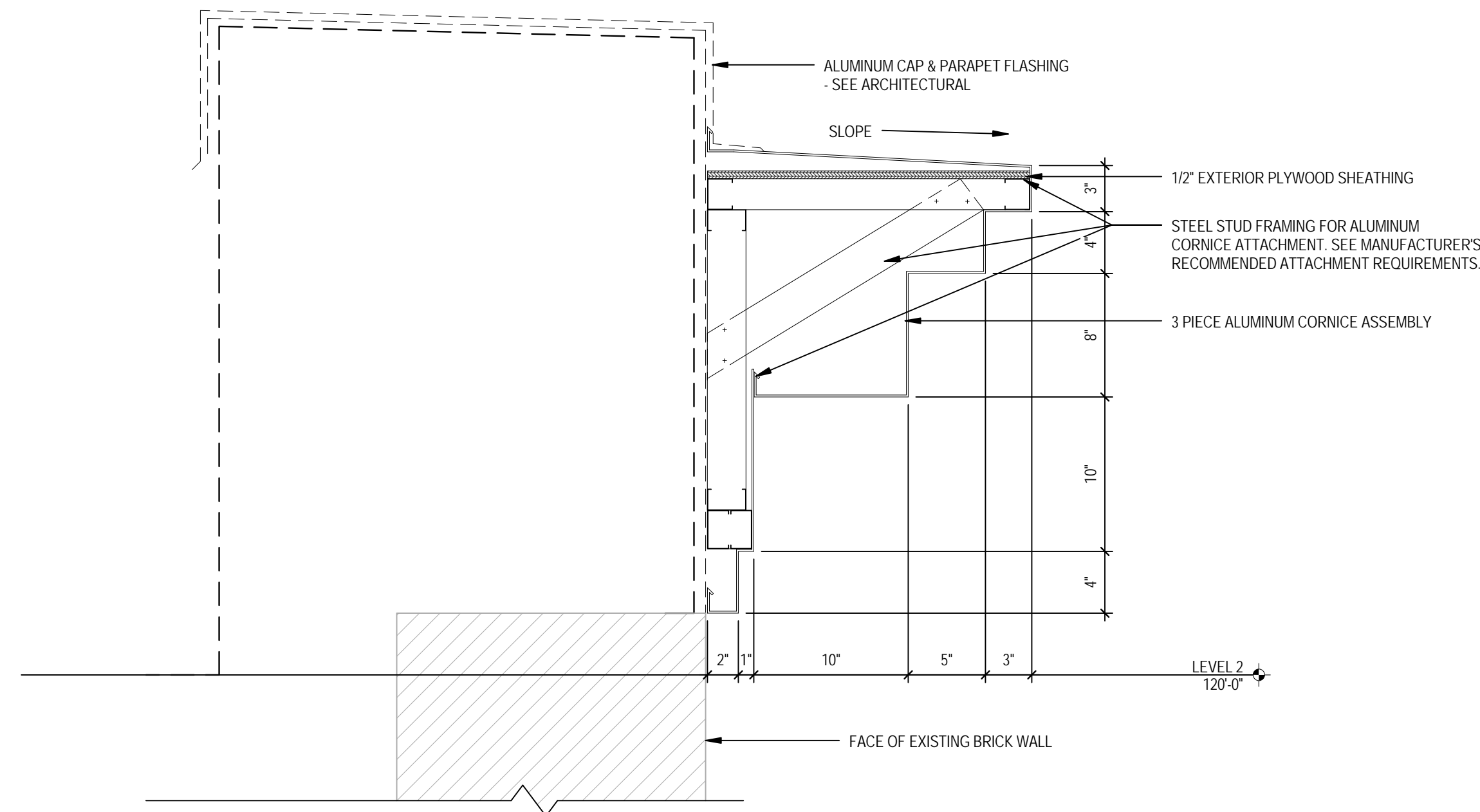
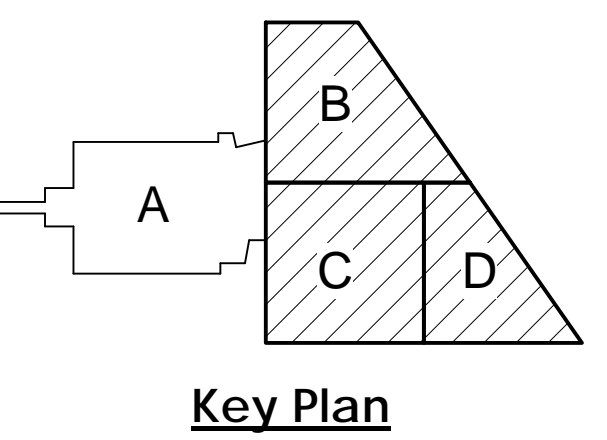
AR3.06



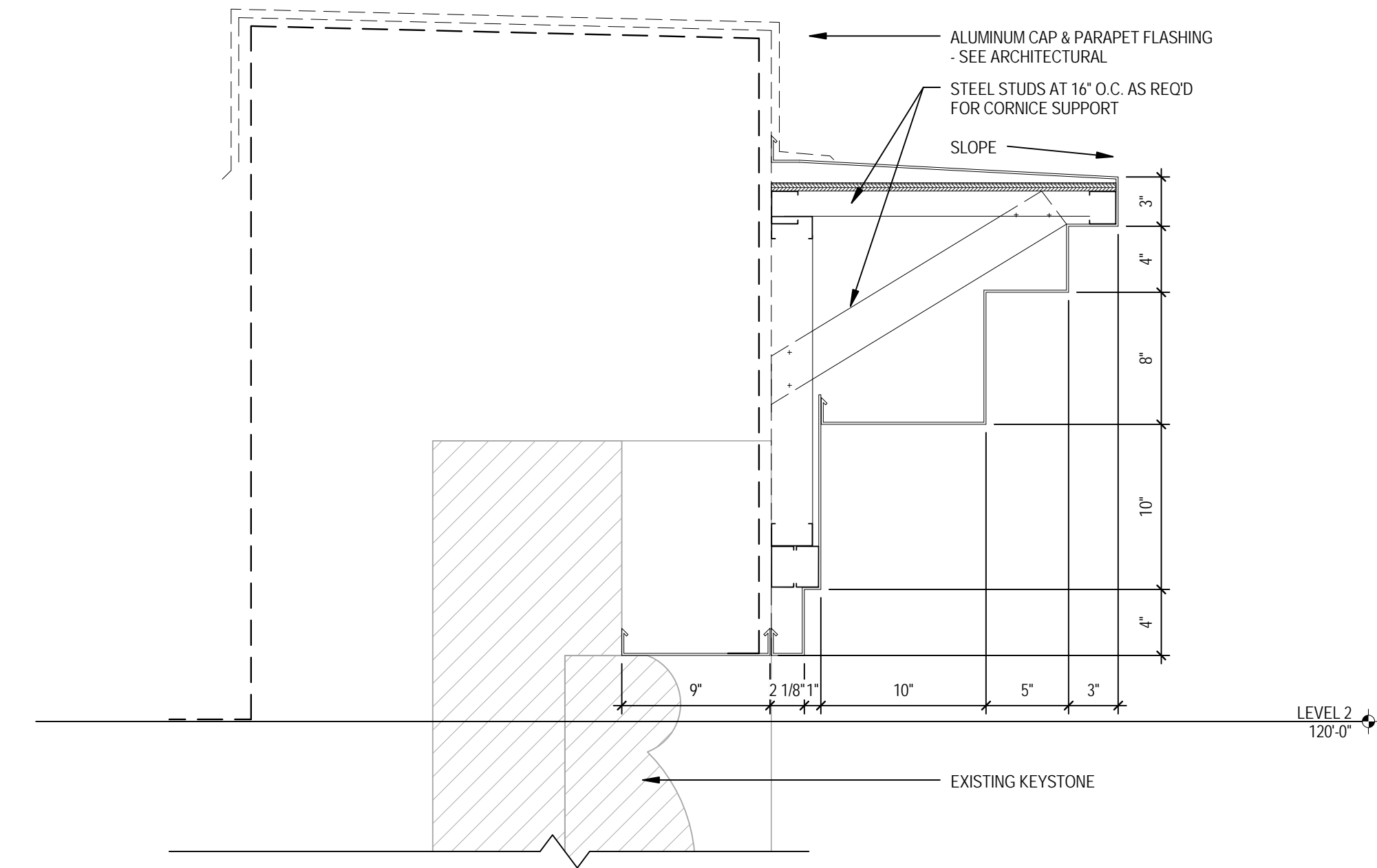
1 WALL SECTION
SCALE: 3/4" = 1'-0"



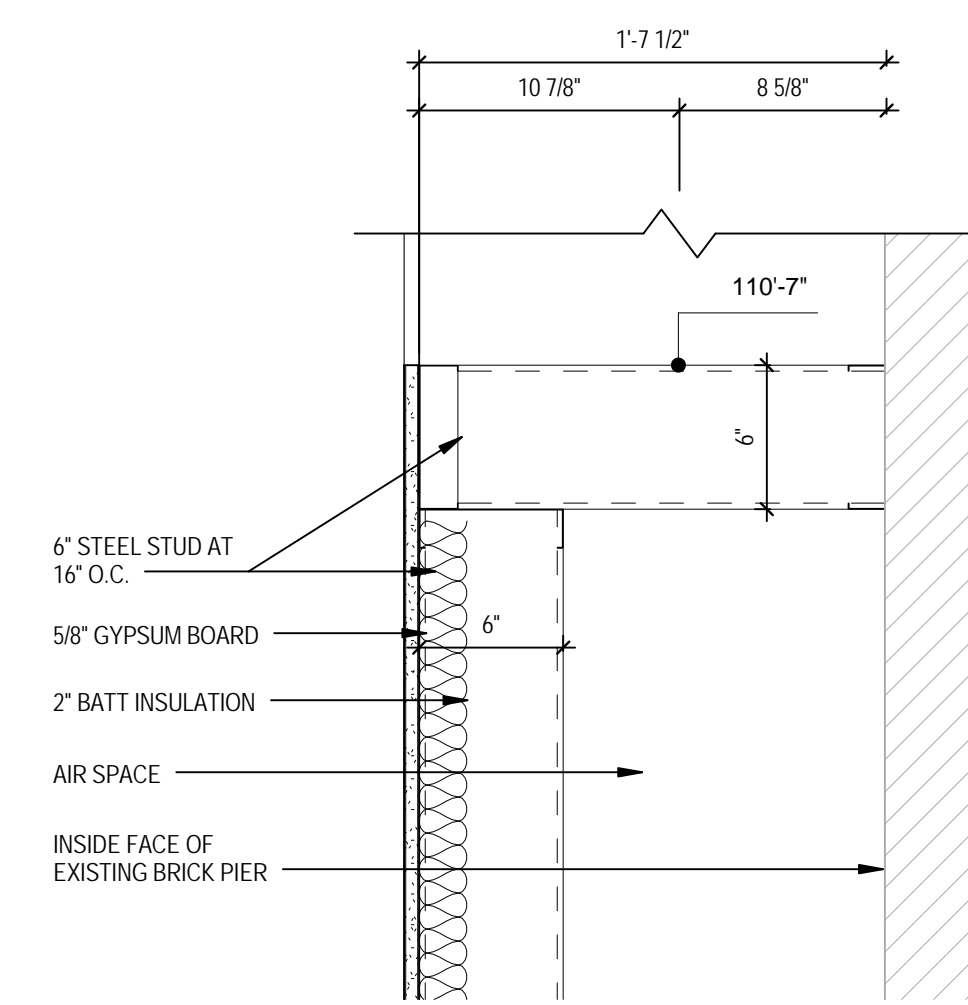
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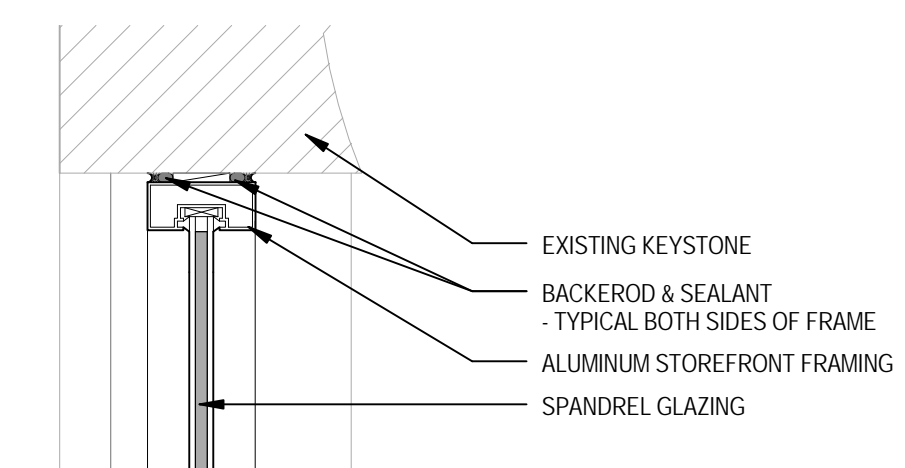
4 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



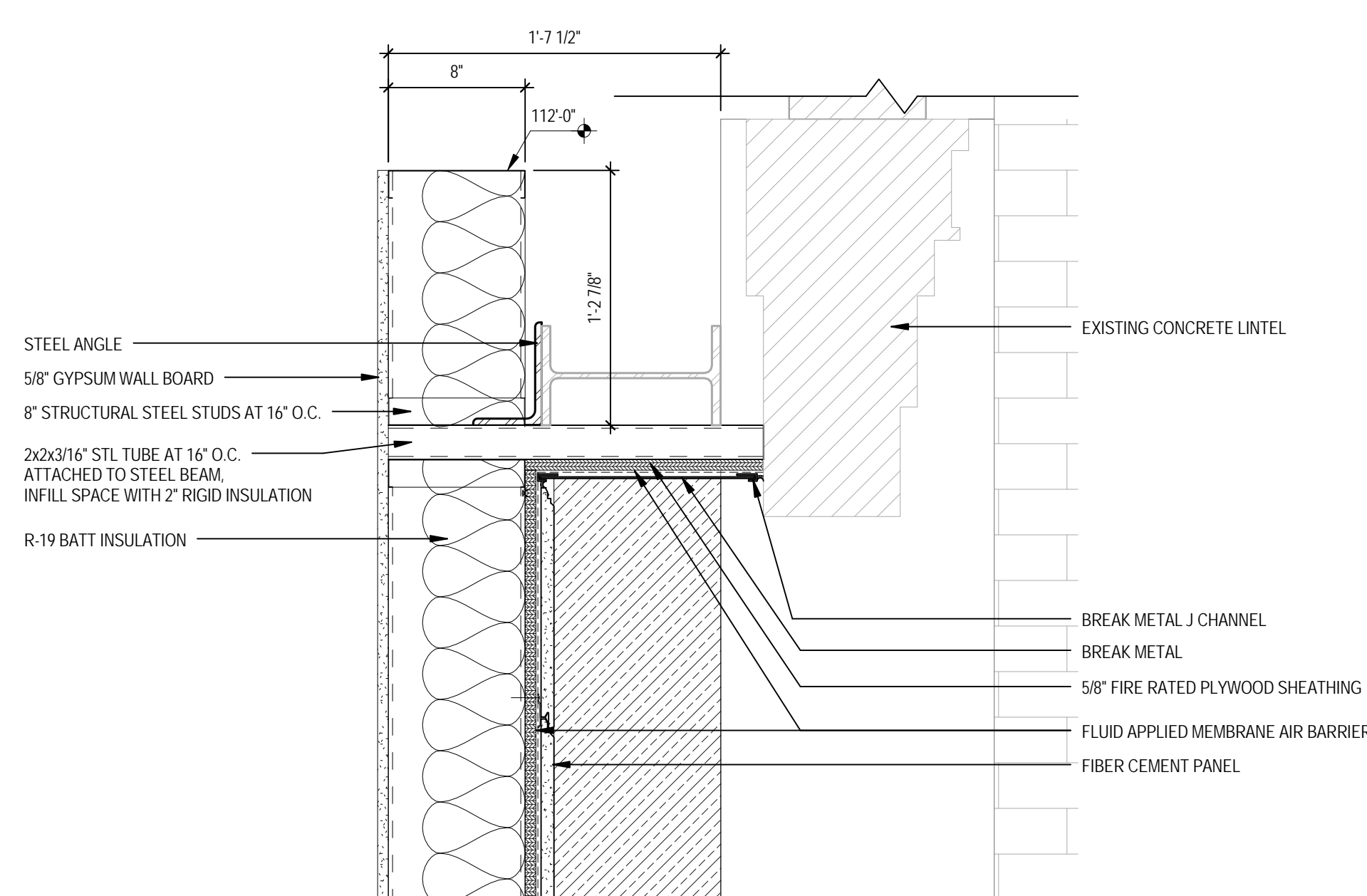
5 SECTION DETAIL
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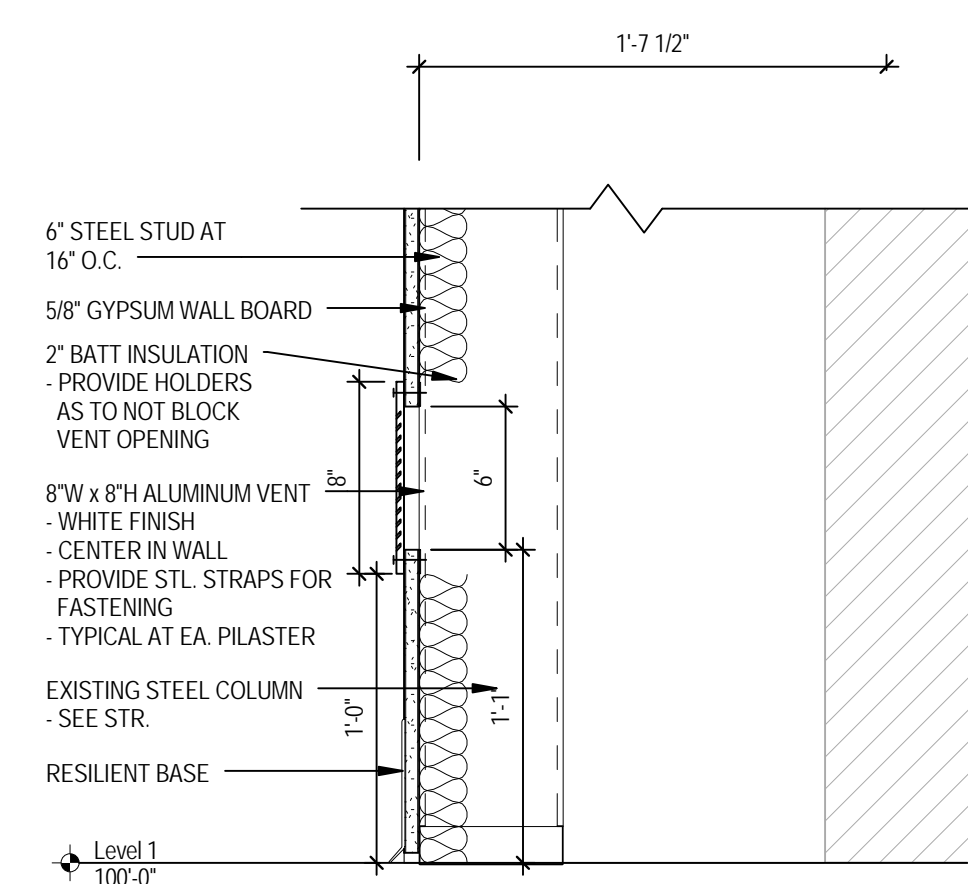
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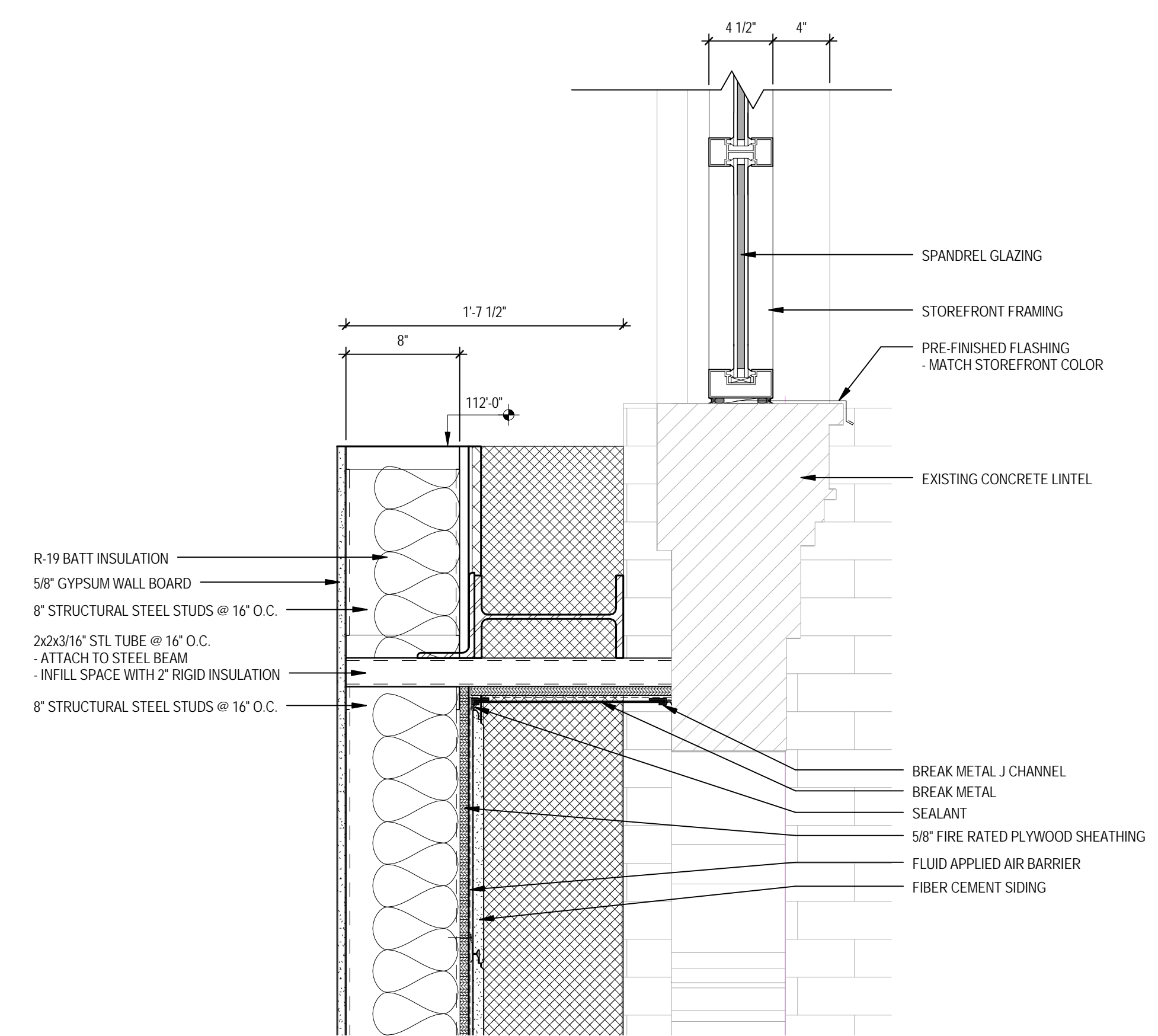
6 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



1 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"

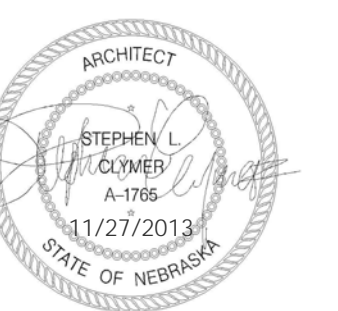


2 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



7 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"

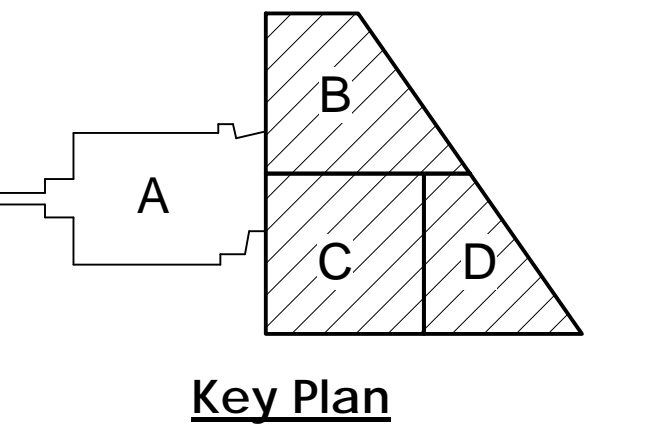
Life Sciences Collaboration
1910 N Antelope Valley Parkway
Lincoln, Nebraska
TCEP No.: 716-002-12
Davis Design: 12-0077
BVH No.: L12018.unl
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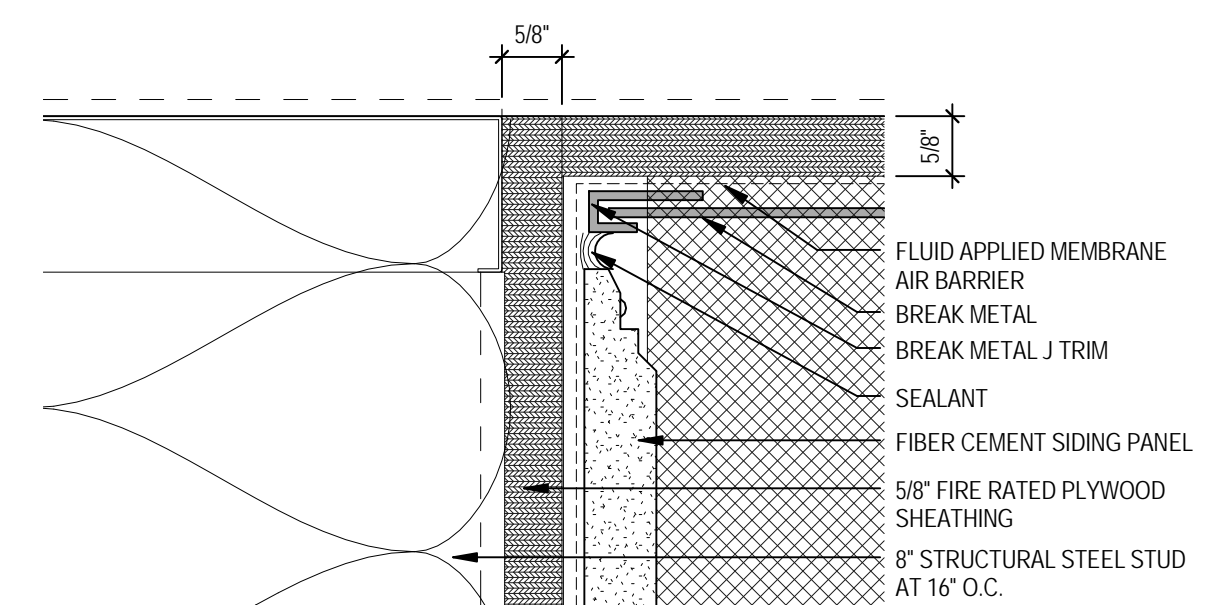
SHEET HISTORY:
 12/11/2013 AS PER ADDENDUM #01



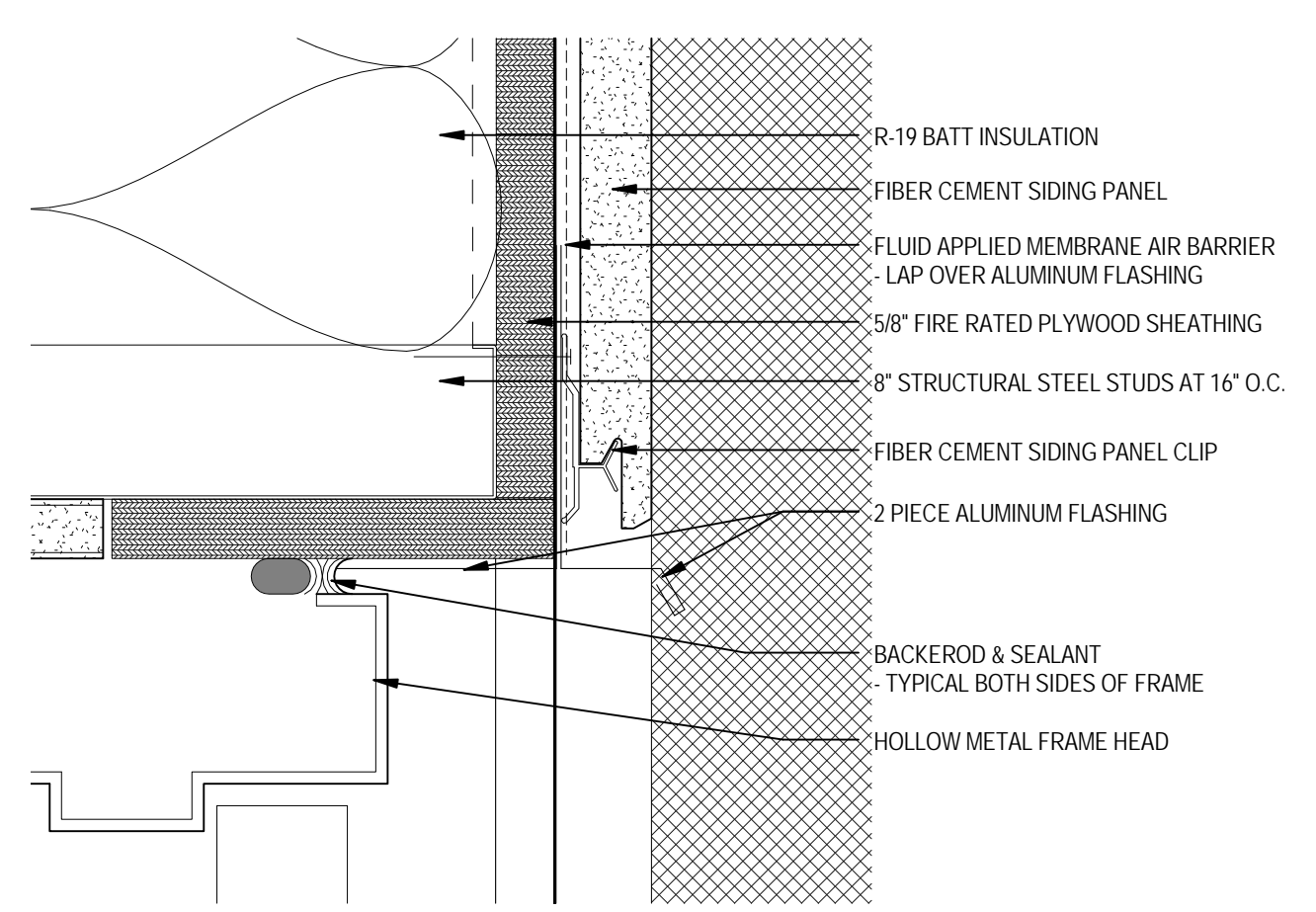
Life Sciences Collaboration
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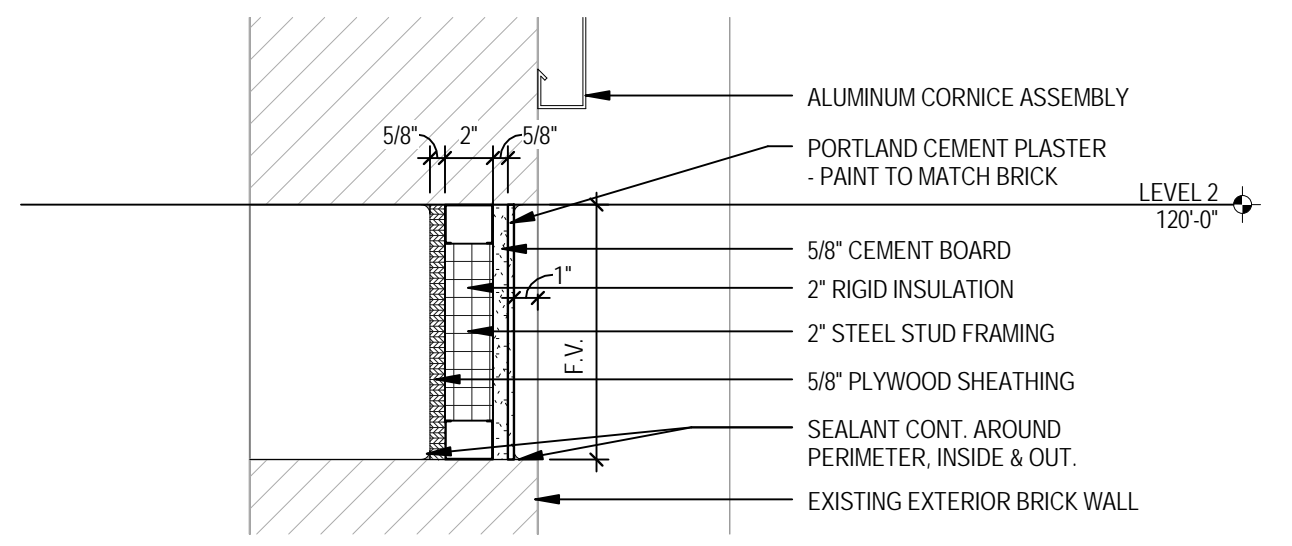
WALL SECTION DETAILS
AR3.08



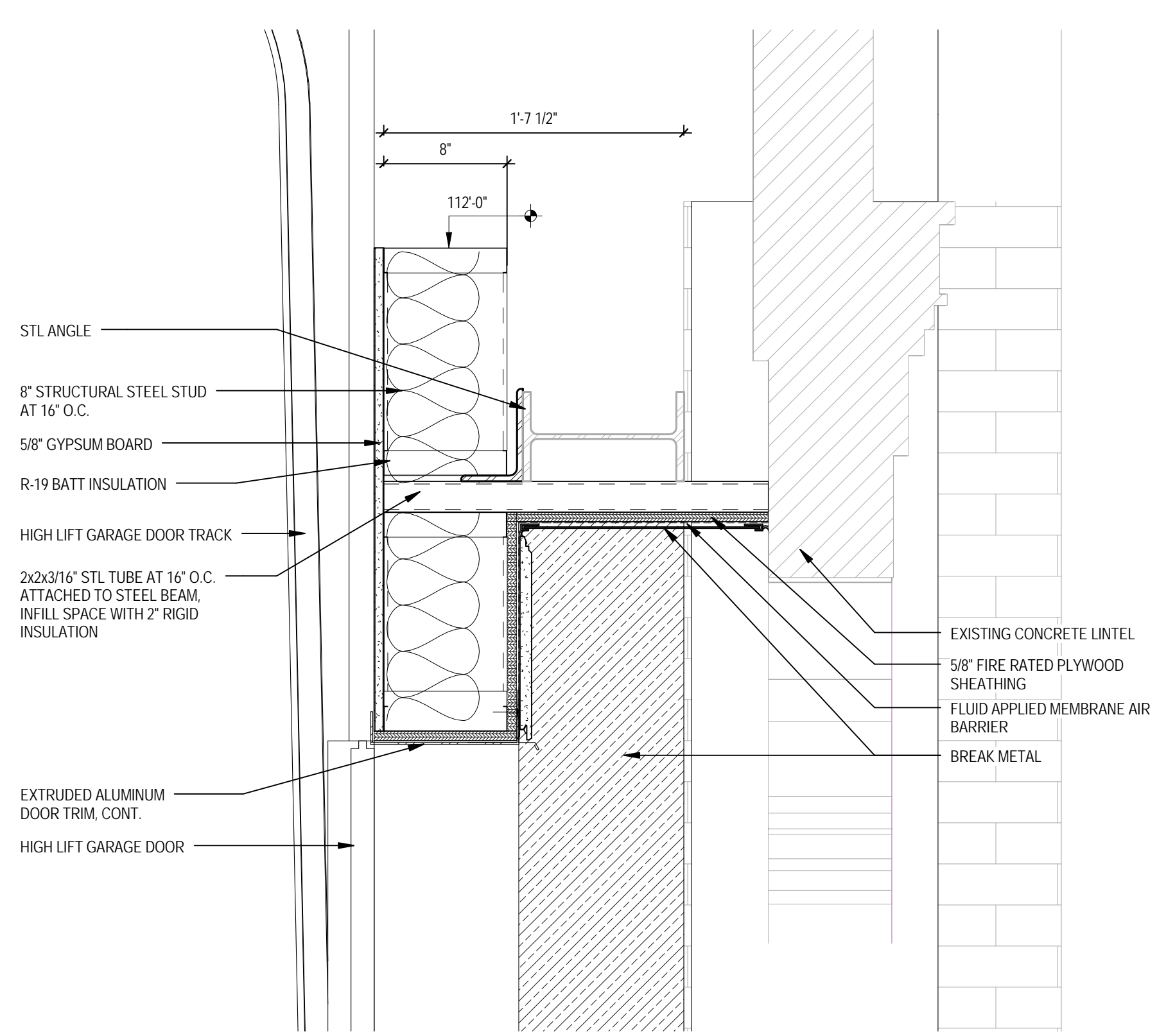
8 SECTION DETAIL
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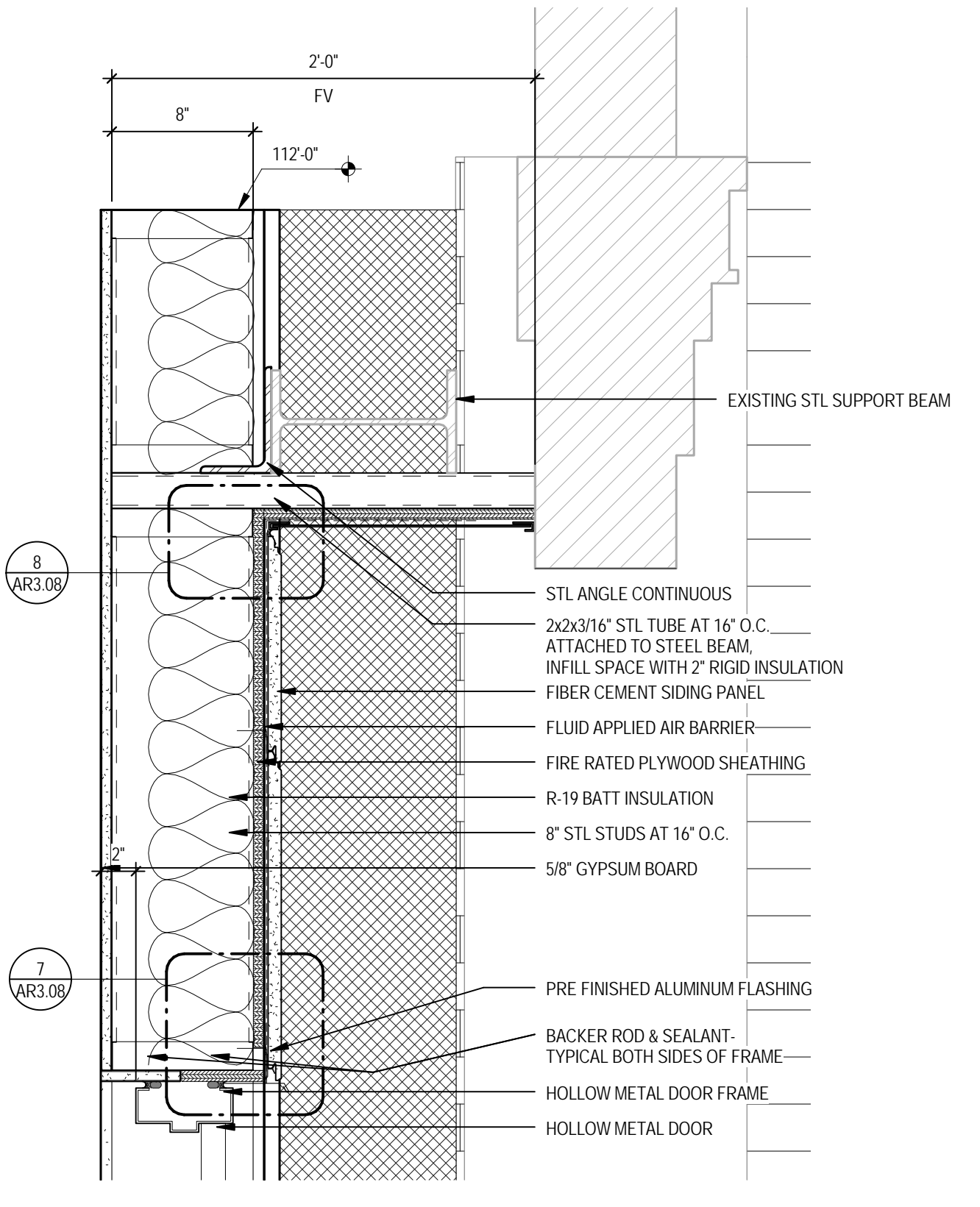
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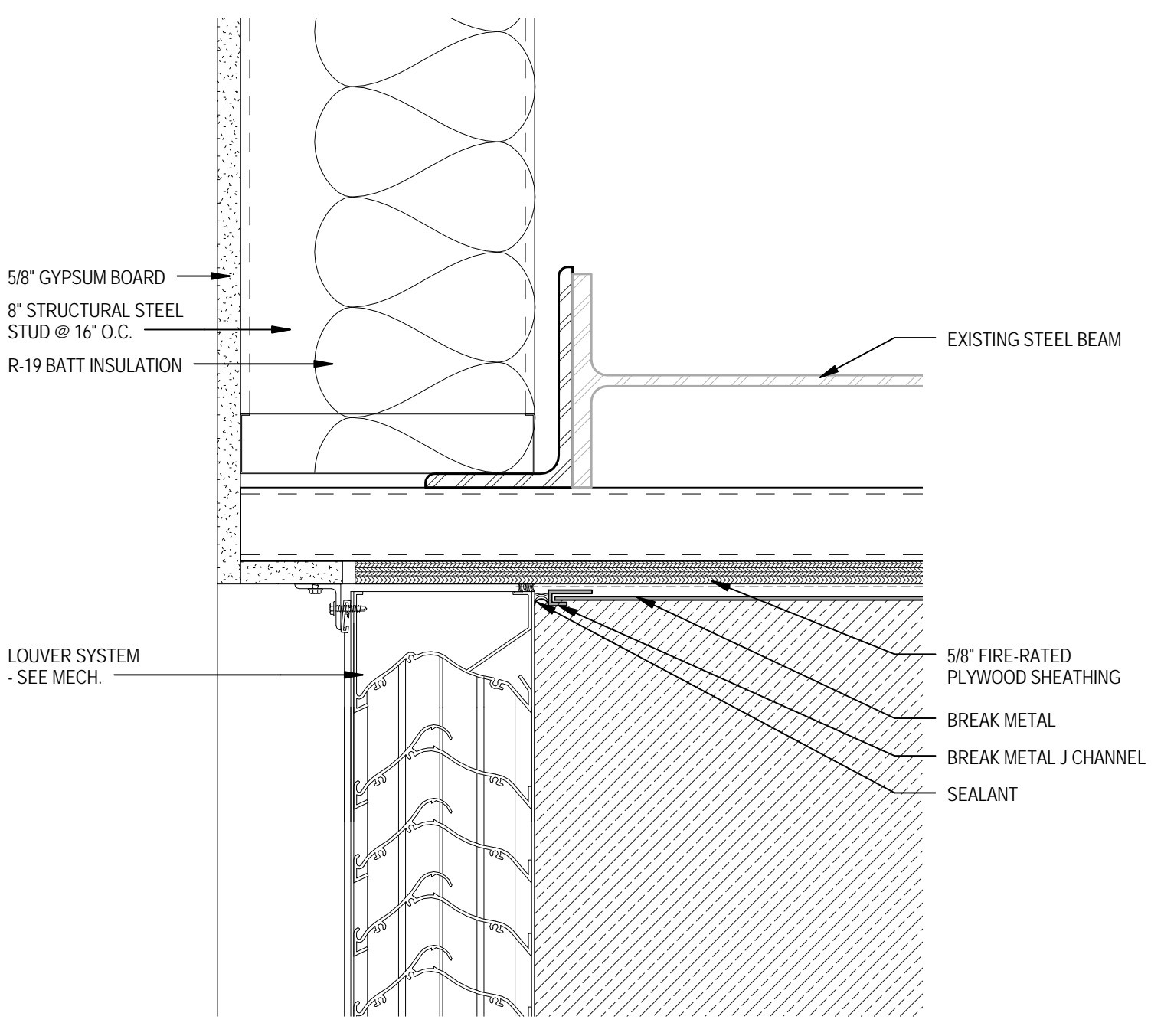
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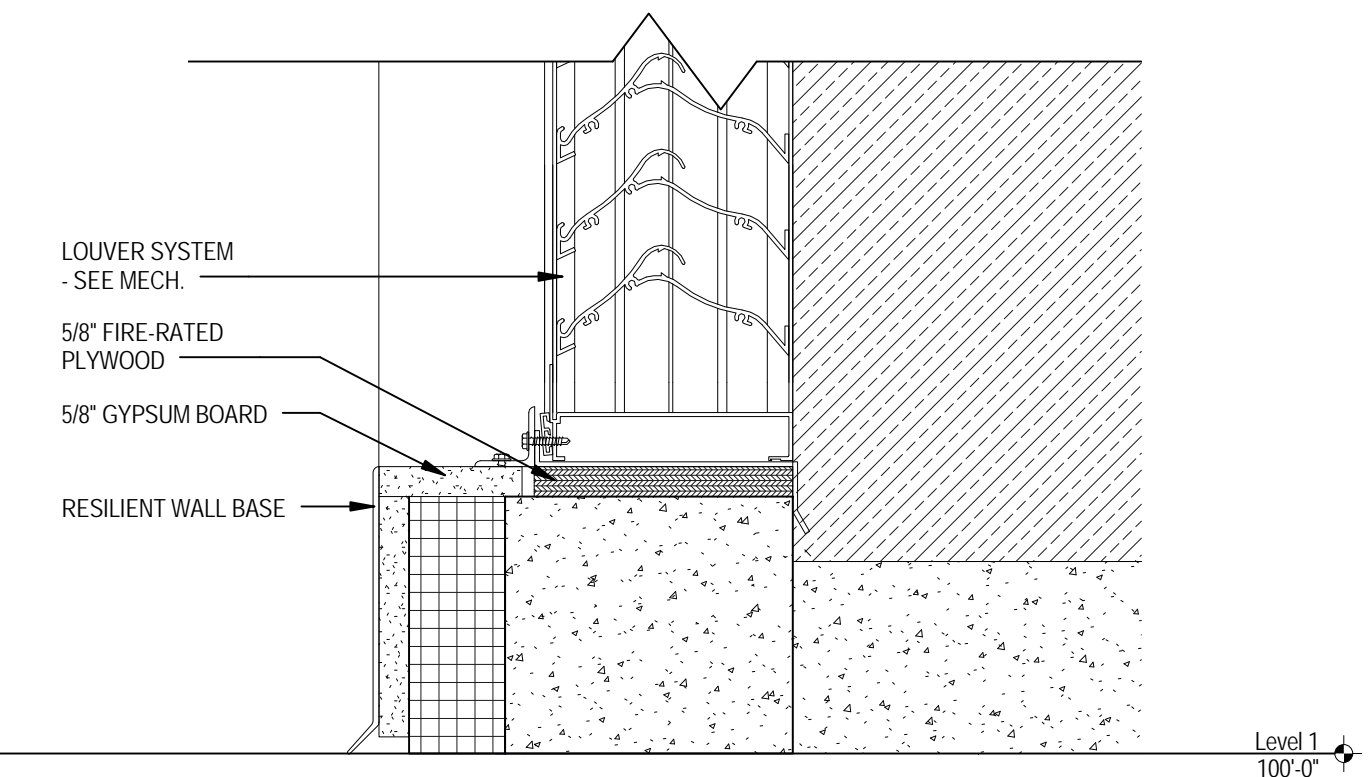
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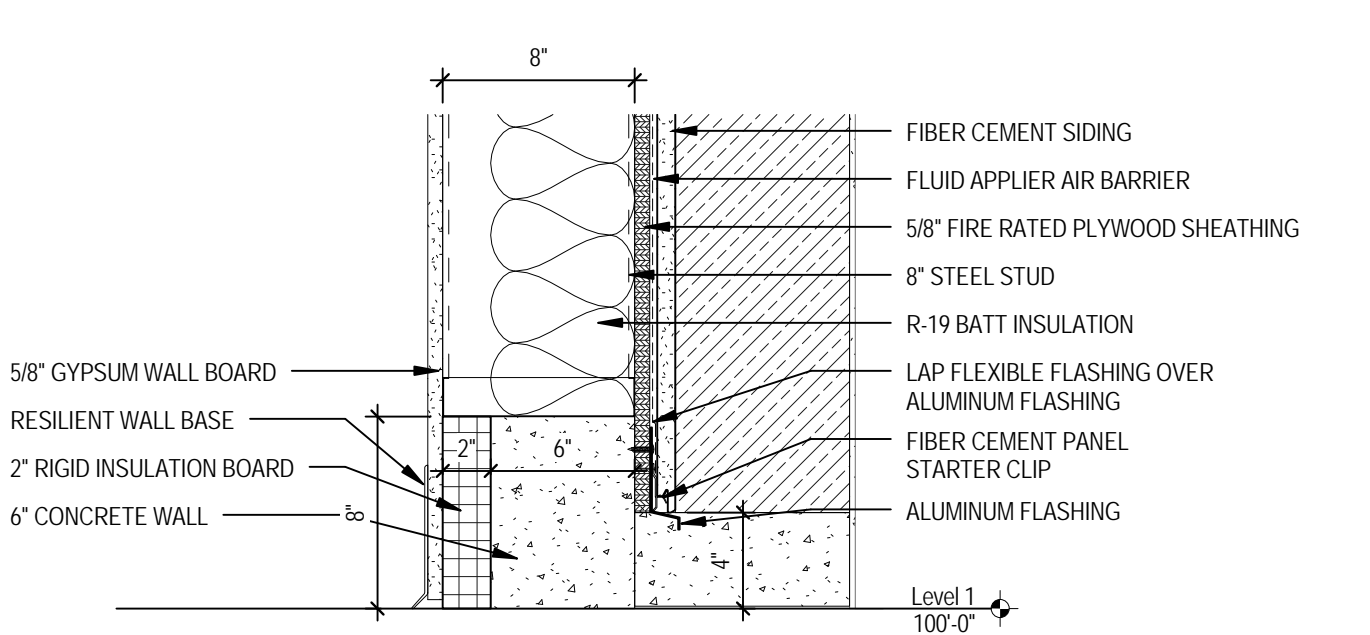
6 SECTION DETAIL
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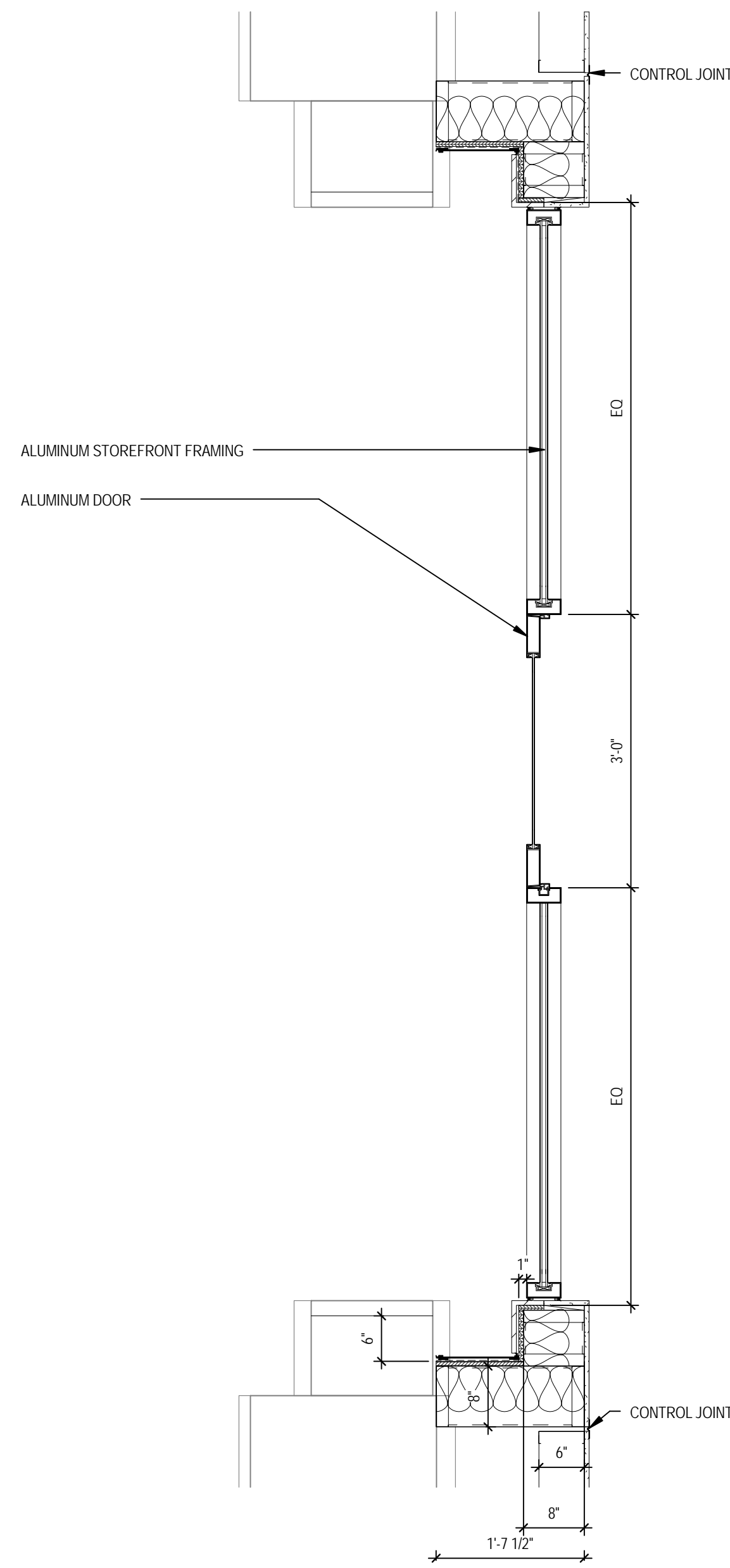
3 SECTION DETAIL
 SCALE: 3" = 1'-0"



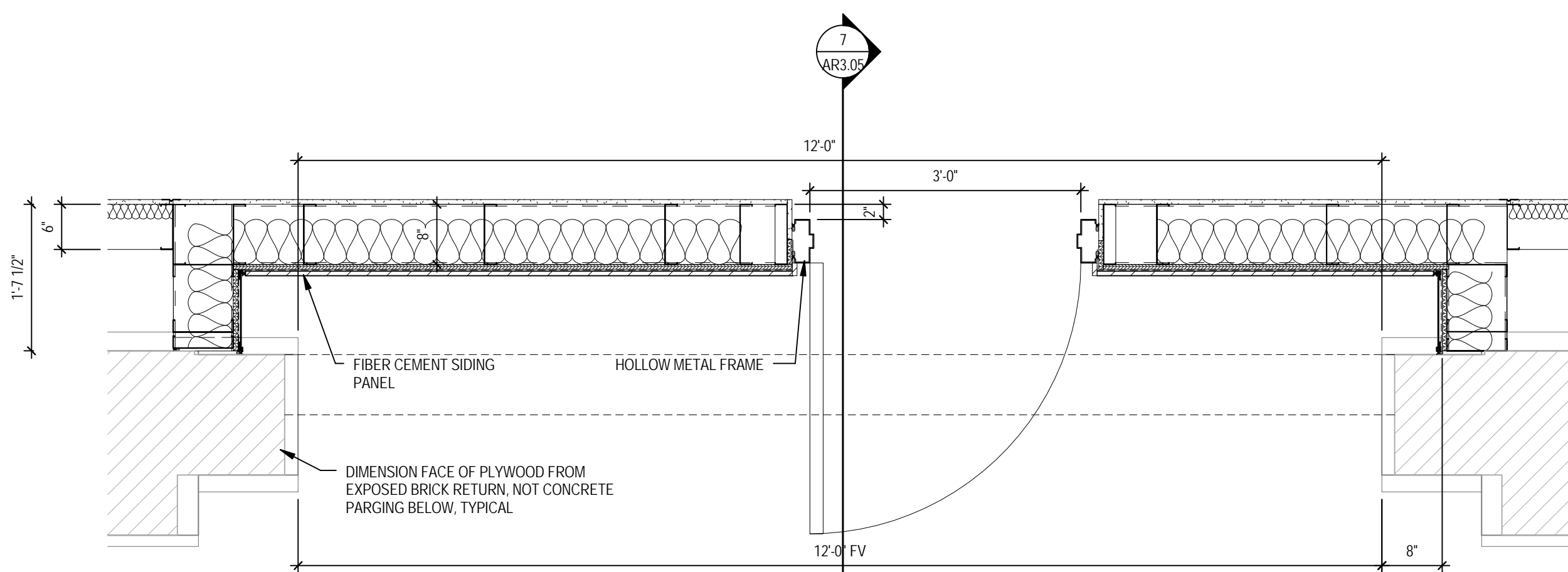
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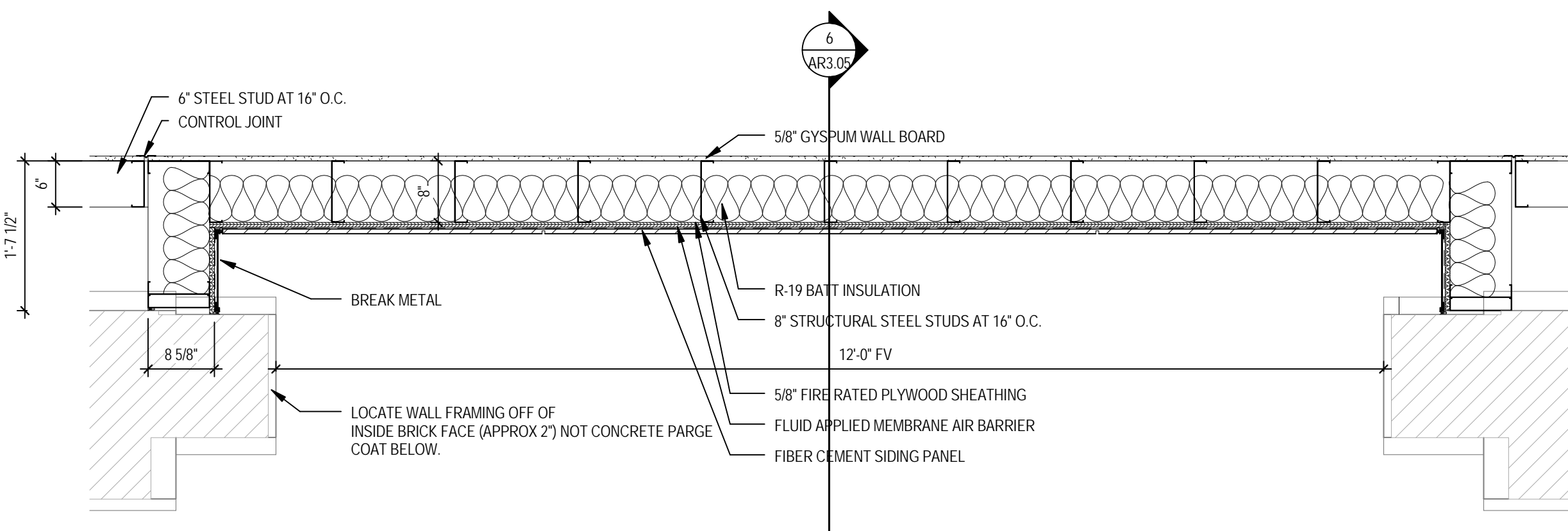
1 SECTION DETAIL
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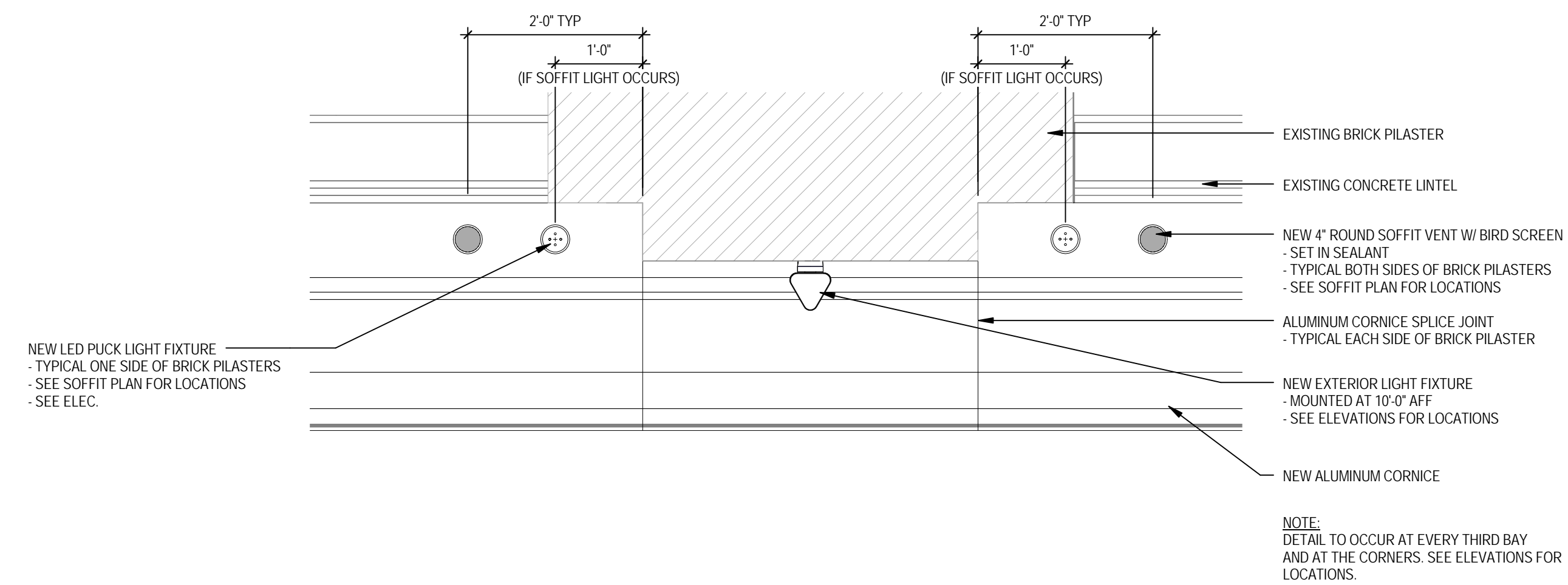
3 FUTURE INFILL ASSEMBLY OPTION (REFERENCE ONLY)
SCALE: 3/4" = 1'-0"



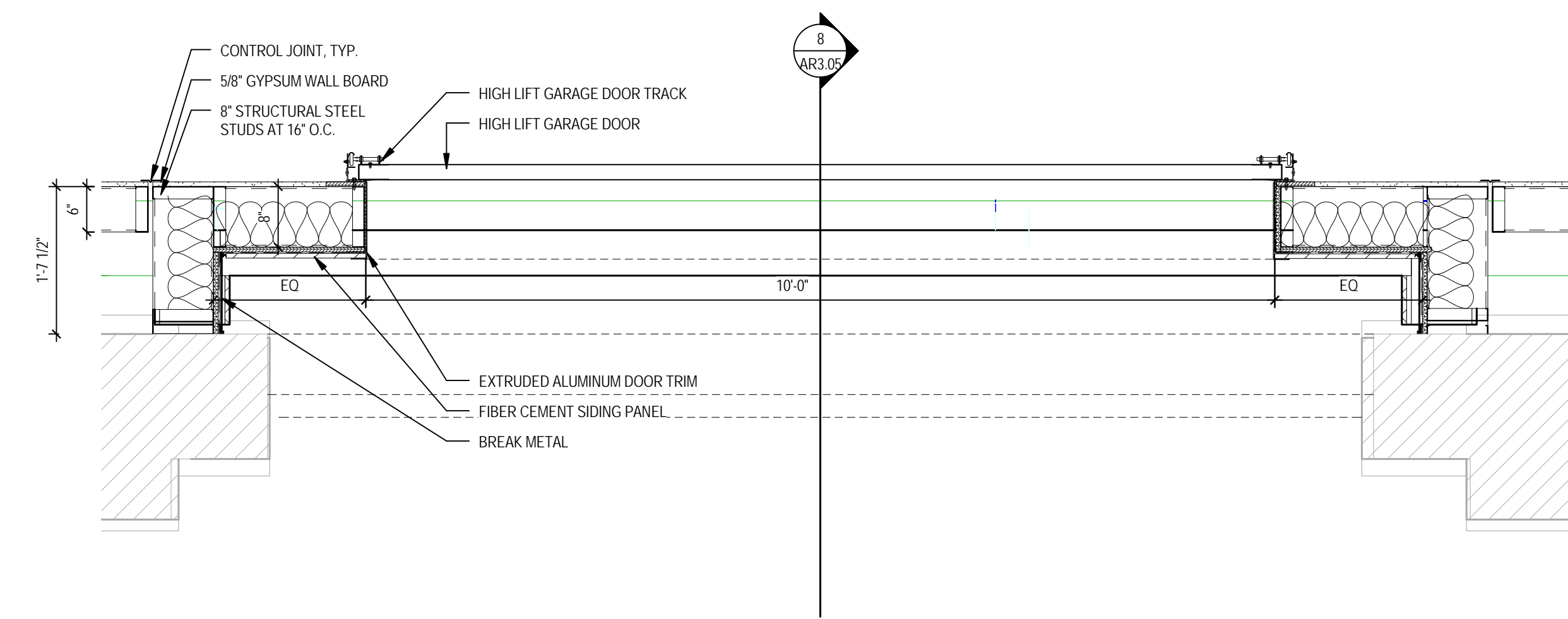
2 PLAN DETAIL - WALL TYPE 'B'
SCALE: 3/4" = 1'-0"



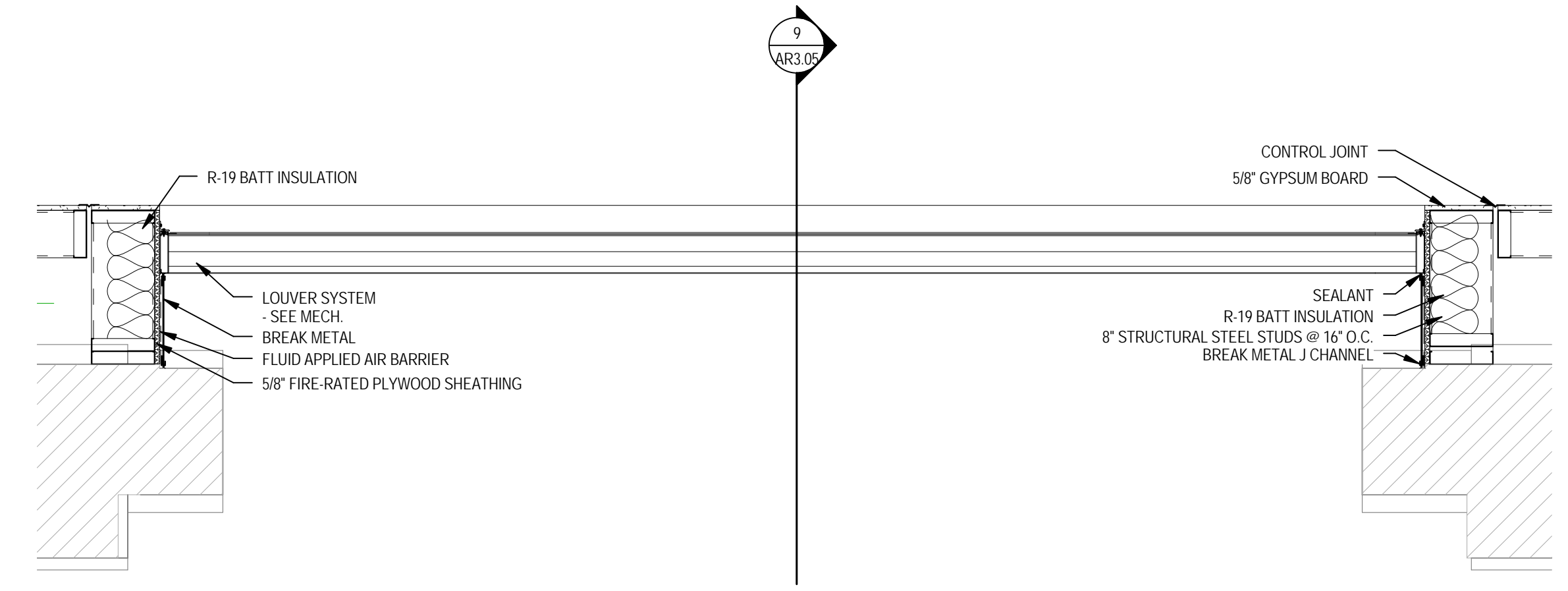
1 PLAN DETAIL - WALL TYPE 'A'
SCALE: 3/4" = 1'-0"



6 PLAN DETAIL - LIGHTING AND SOFFIT VENT
SCALE: 3/4" = 1'-0"



5 PLAN DETAIL - WALL TYPE 'C'
SCALE: 3/4" = 1'-0"

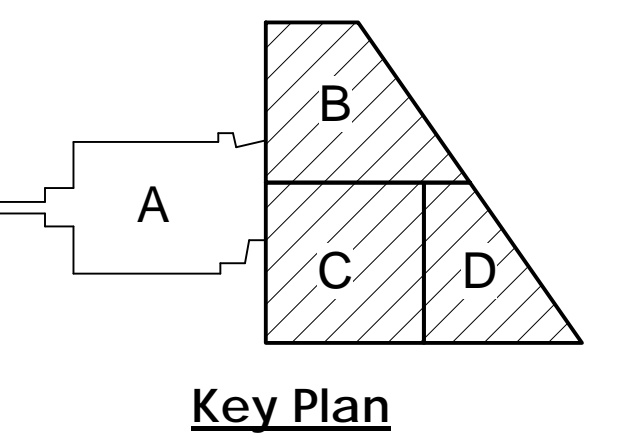


4 PLAN DETAIL - WALL TYPE 'D'
SCALE: 3/4" = 1'-0"



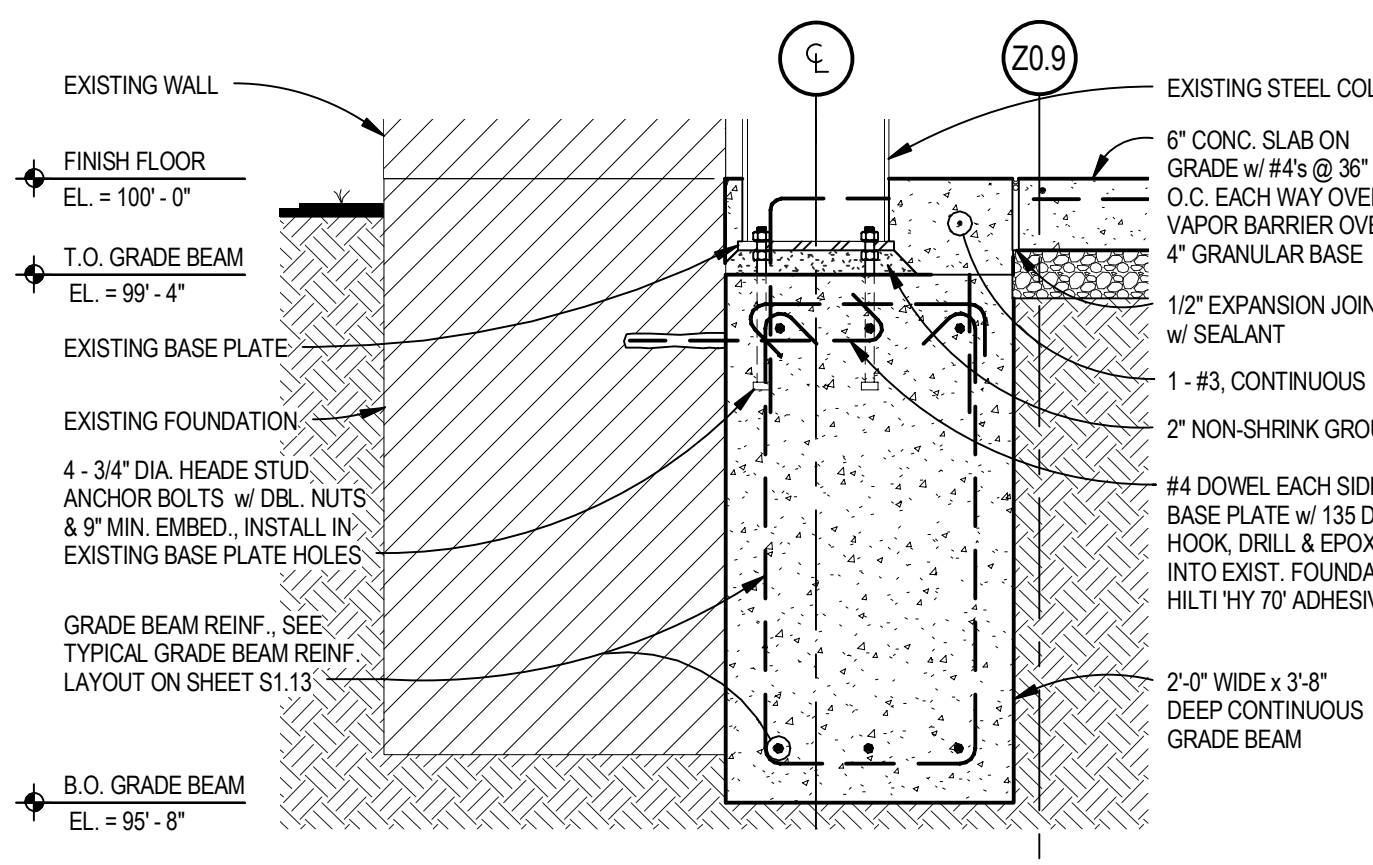
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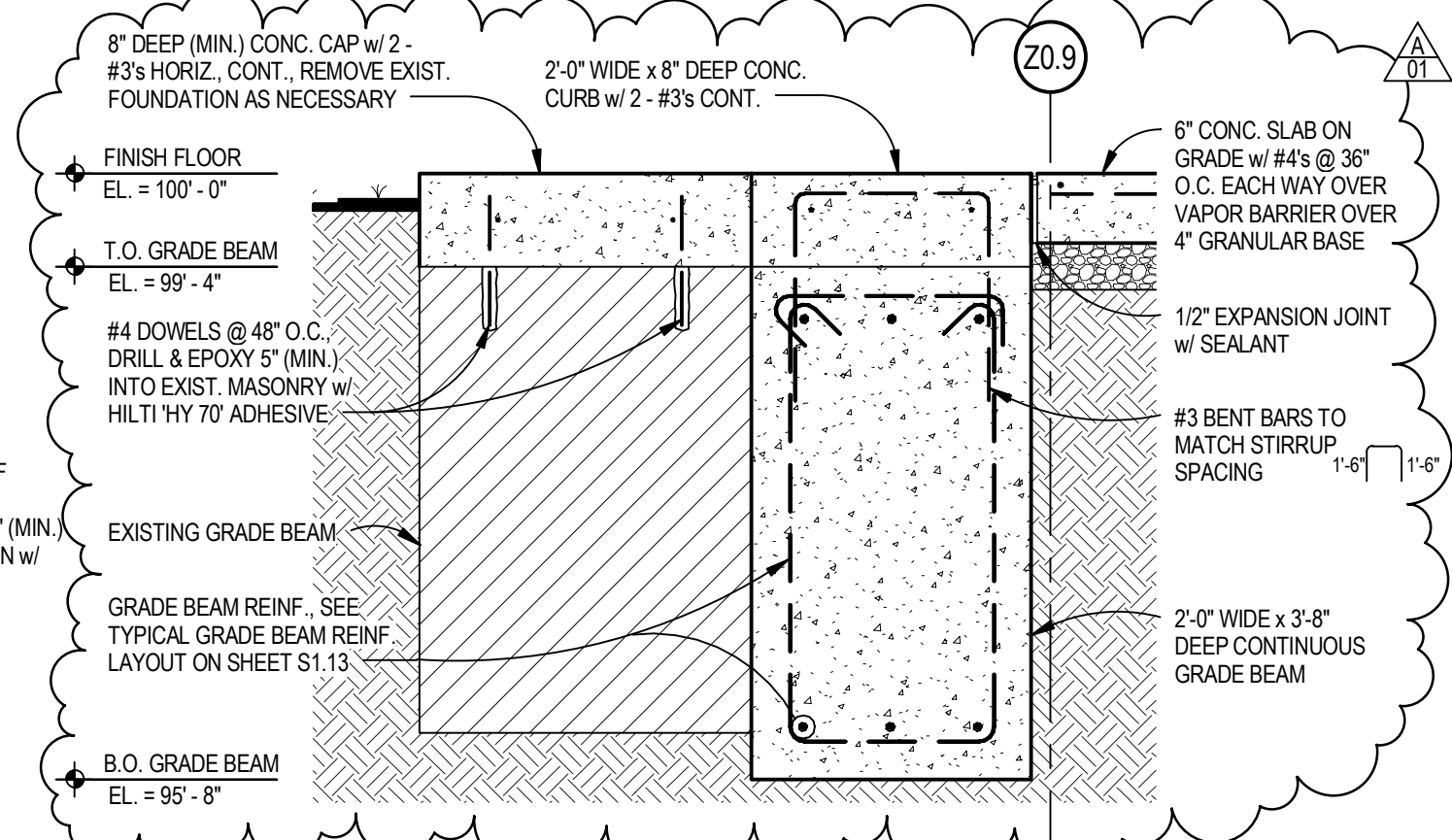


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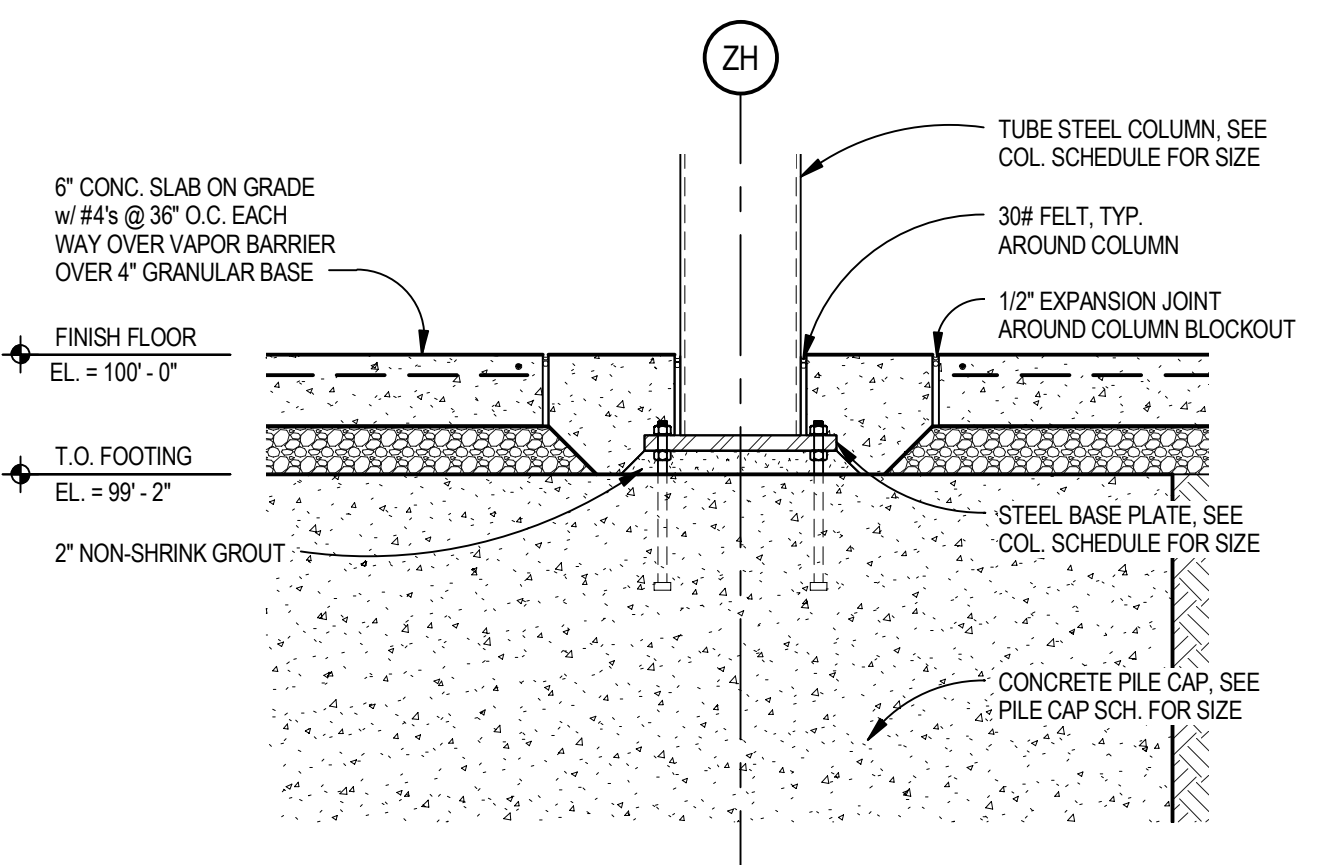




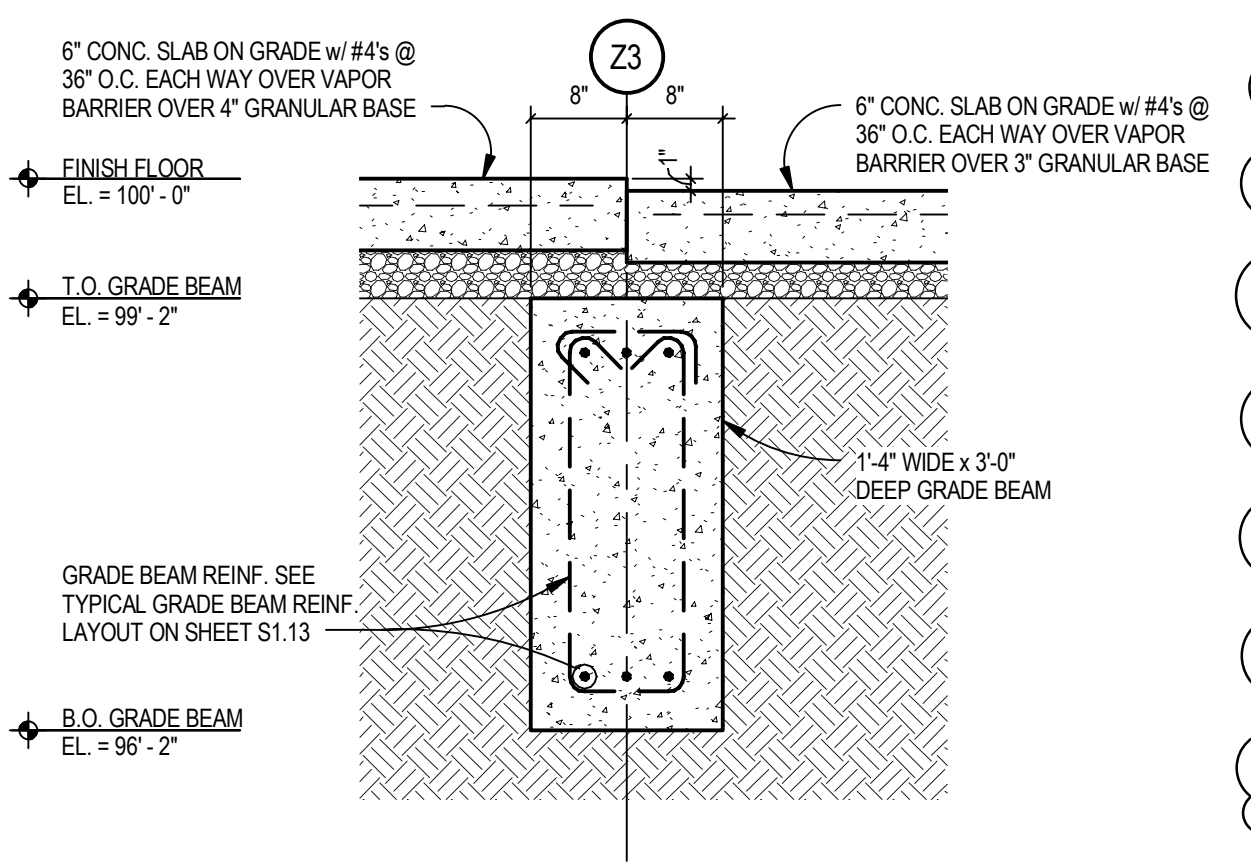
1 GRADE BEAM SECTION
 SCALE: 3/4" = 1'-0"



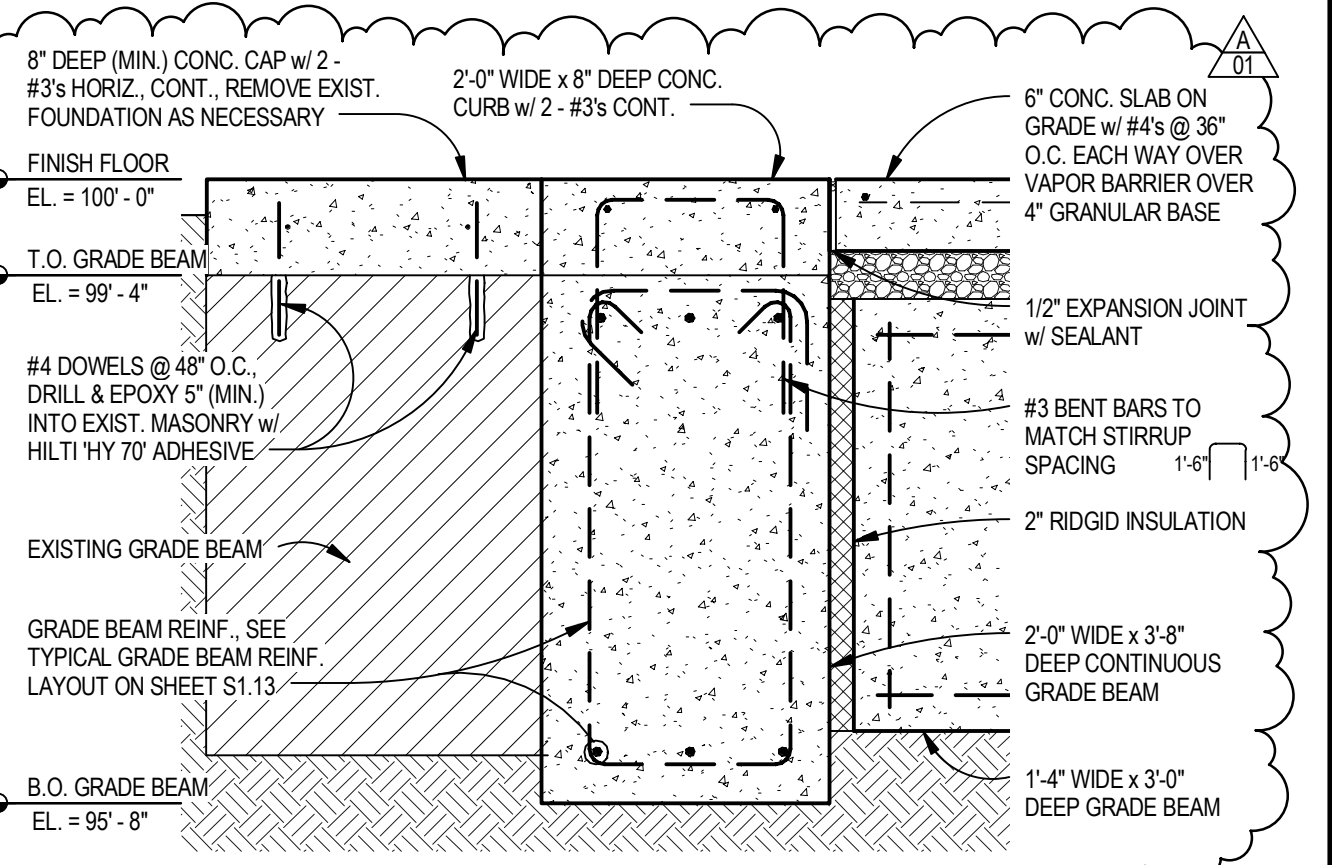
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 SCALE: 3/4" = 1'-0"



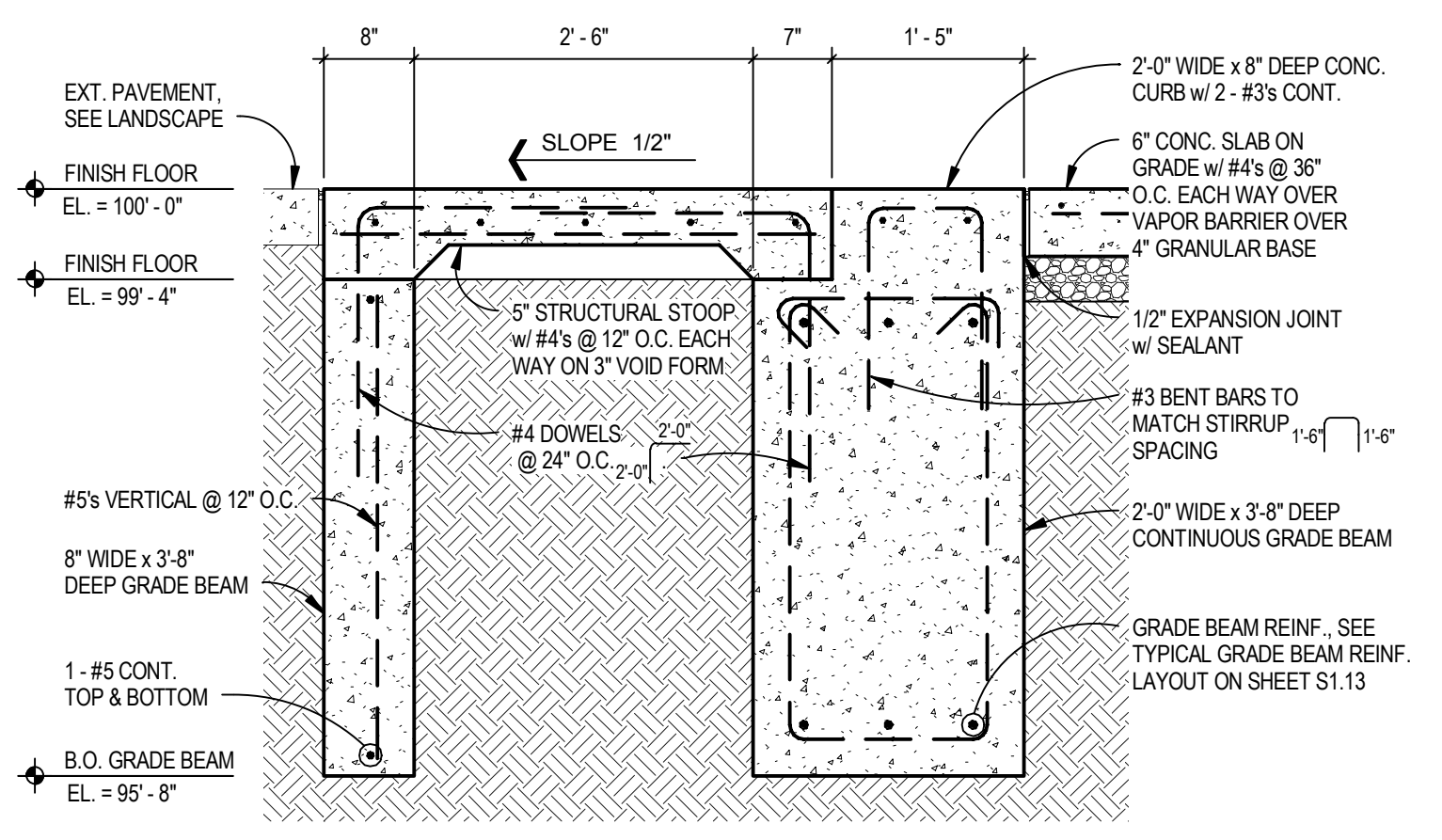
3 PAD FOOTING SECTION
 SCALE: 3/4" = 1'-0"



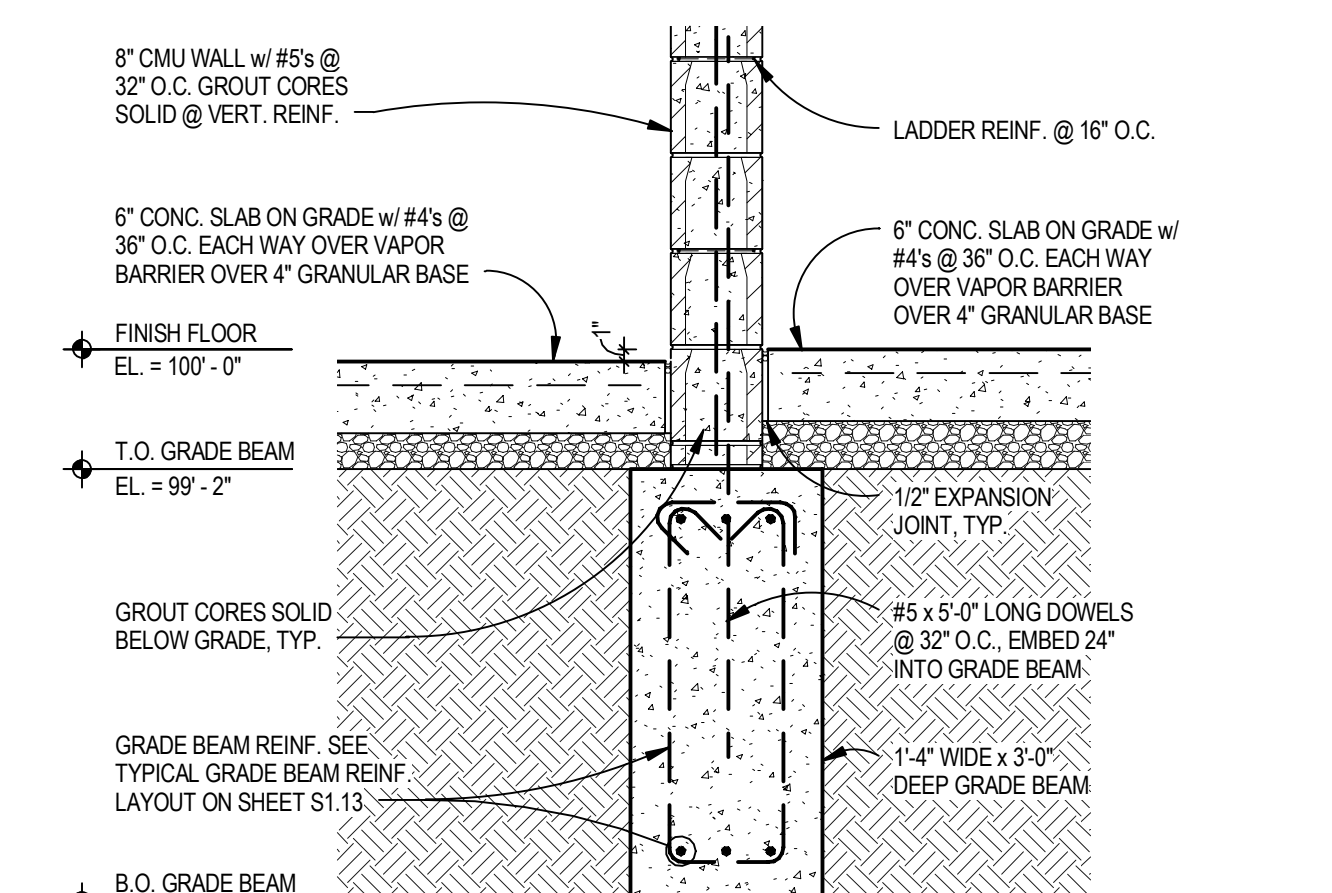
4 GRADE BEAM SECTION
 SCALE: 3/4" = 1'-0"



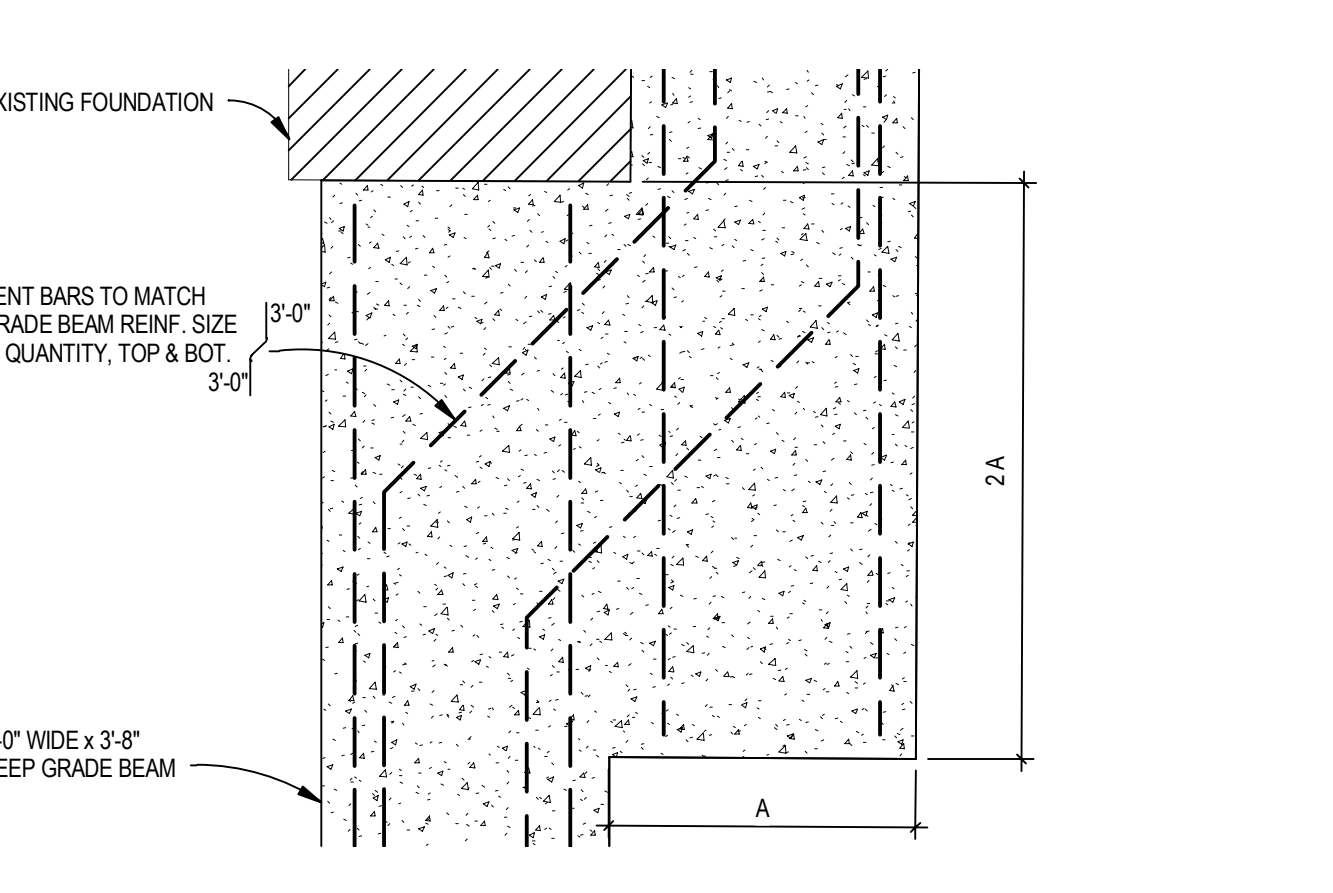
5 GRADE BEAM SECTION
 SCALE: 3/4" = 1'-0"



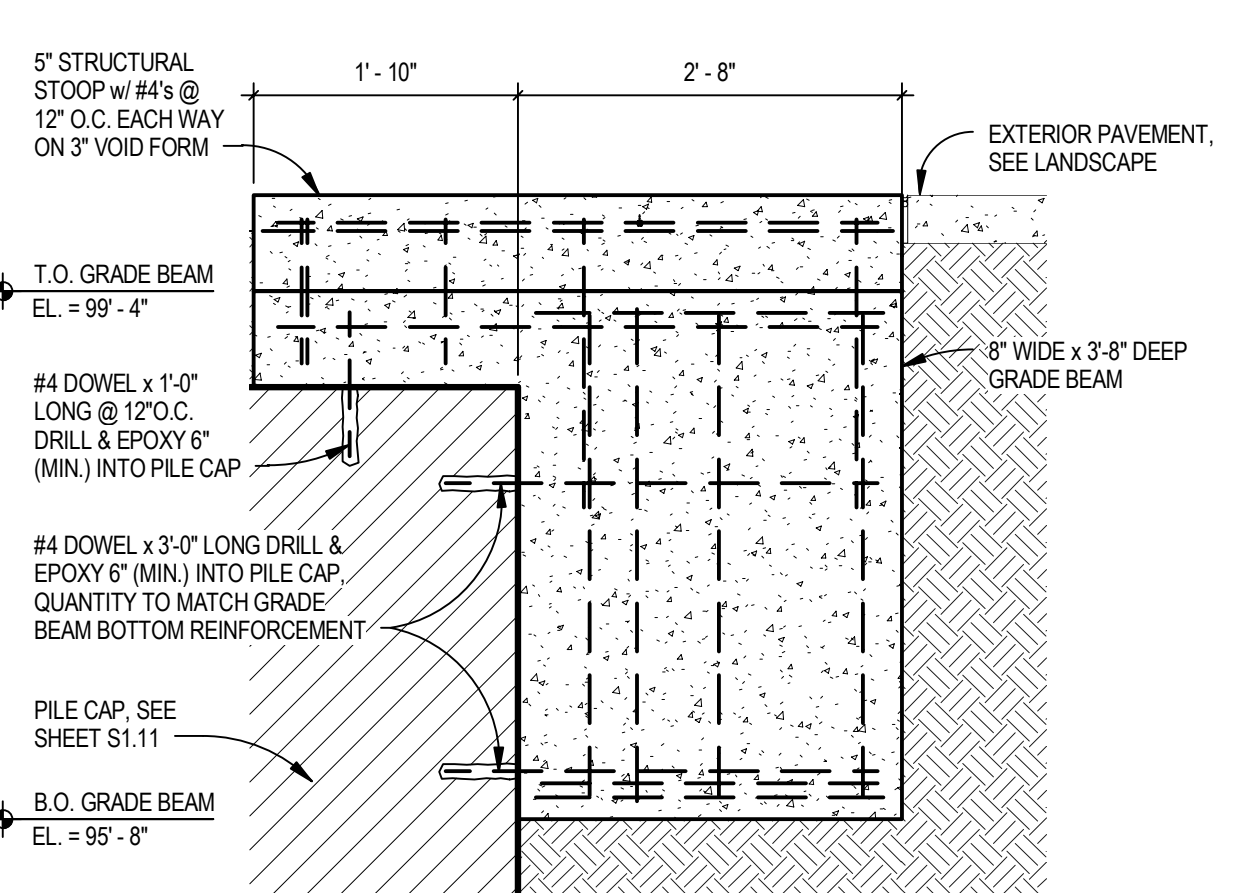
6 STRUCTURAL STOOP SECTION
 SCALE: 3/4" = 1'-0"



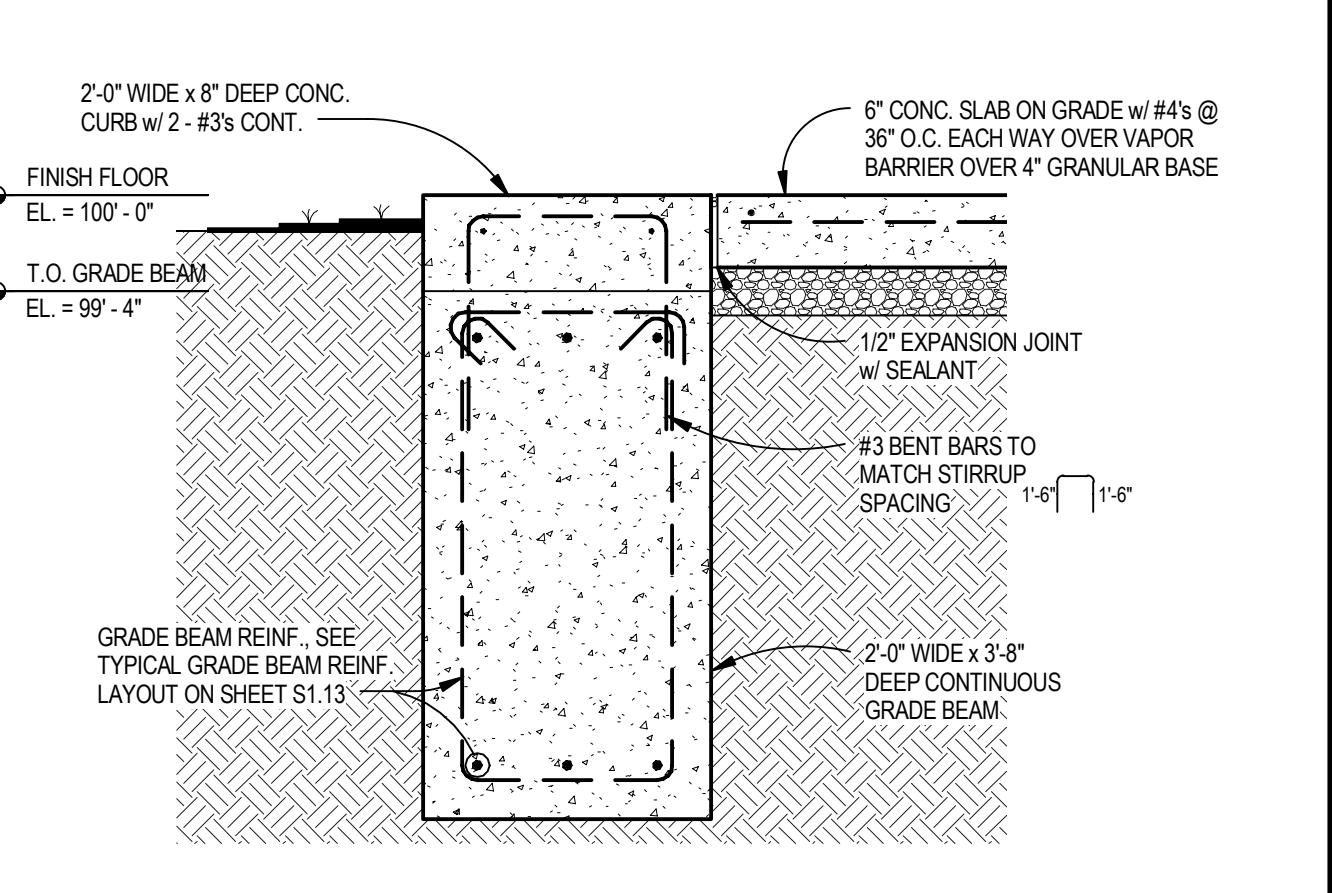
7 GRADE BEAM SECTION
 SCALE: 3/4" = 1'-0"



8 GRADE BEAM PLAN DETAIL
 SCALE: 3/4" = 1'-0"



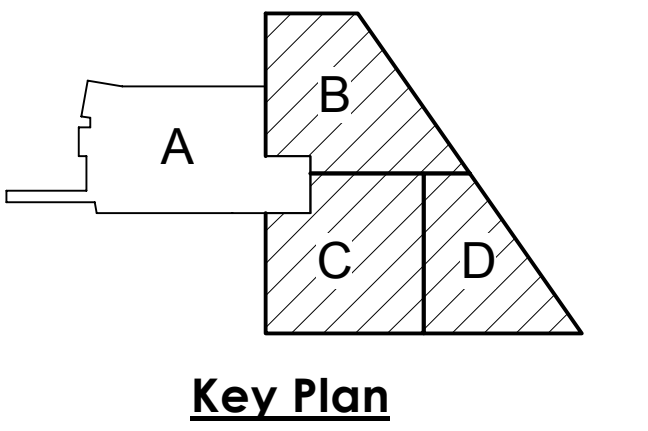
9 STRUCTURAL STOOP SECTION
 SCALE: 3/4" = 1'-0"



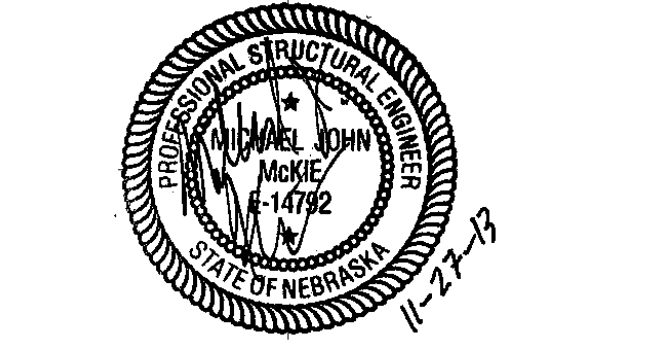
10 GRADE BEAM SECTION
 SCALE: 3/4" = 1'-0"

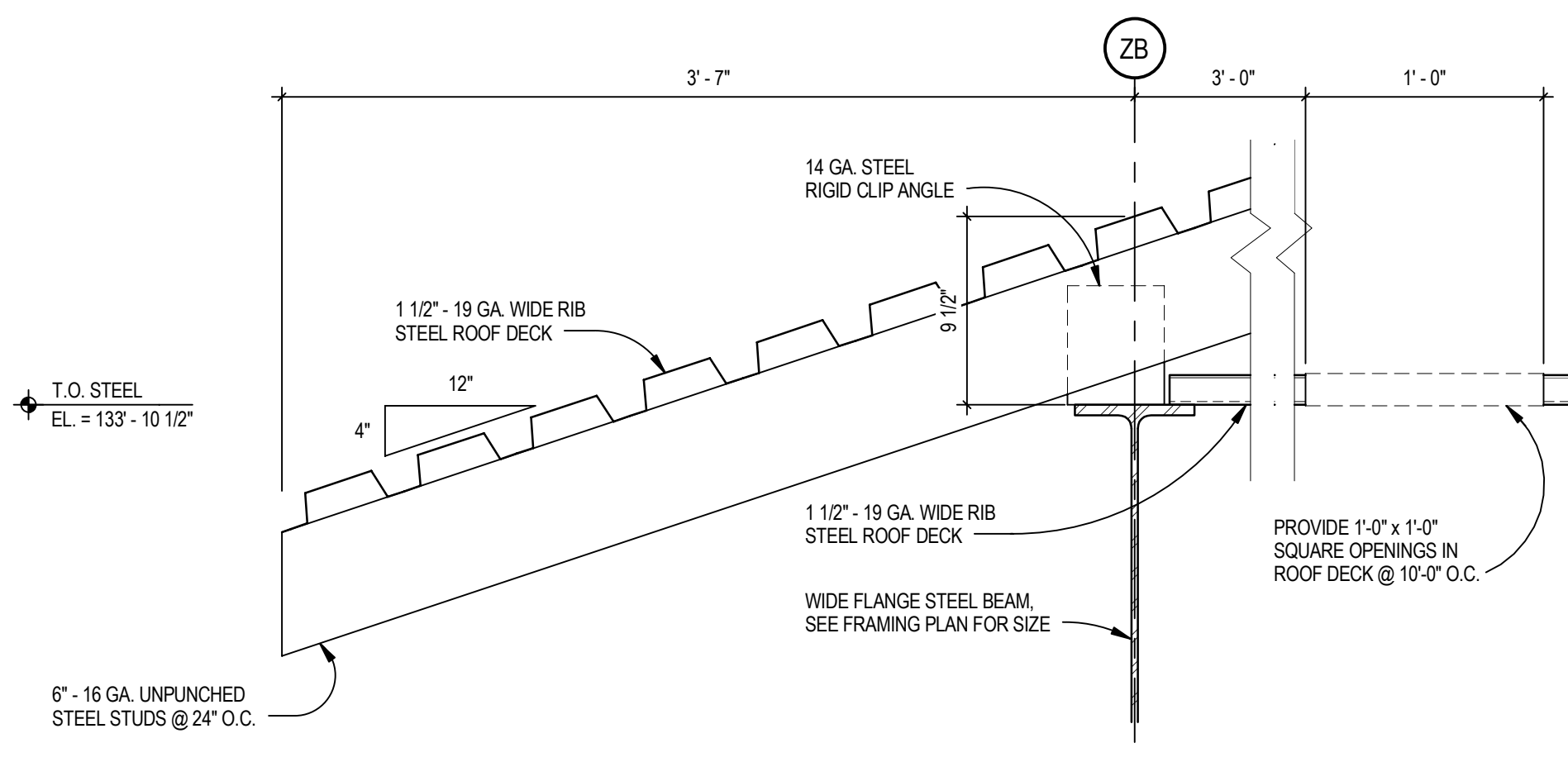
SHEET HISTORY:

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| ISSUED | 11/27/2013 | AS PER CONSTRUCTION DOCUMENTS |
| A - 01 | 12/11/2013 | AS PER ADDENDUM #01 |

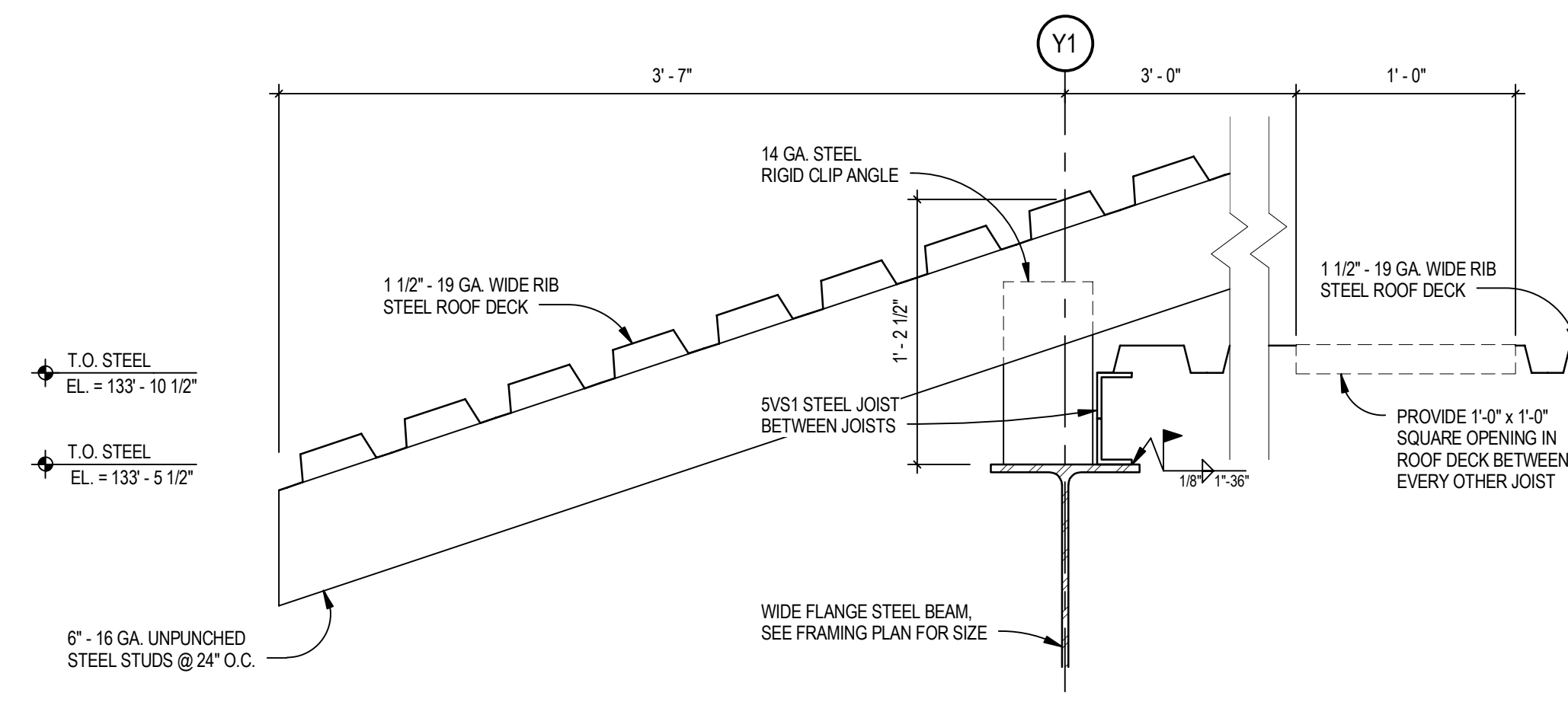


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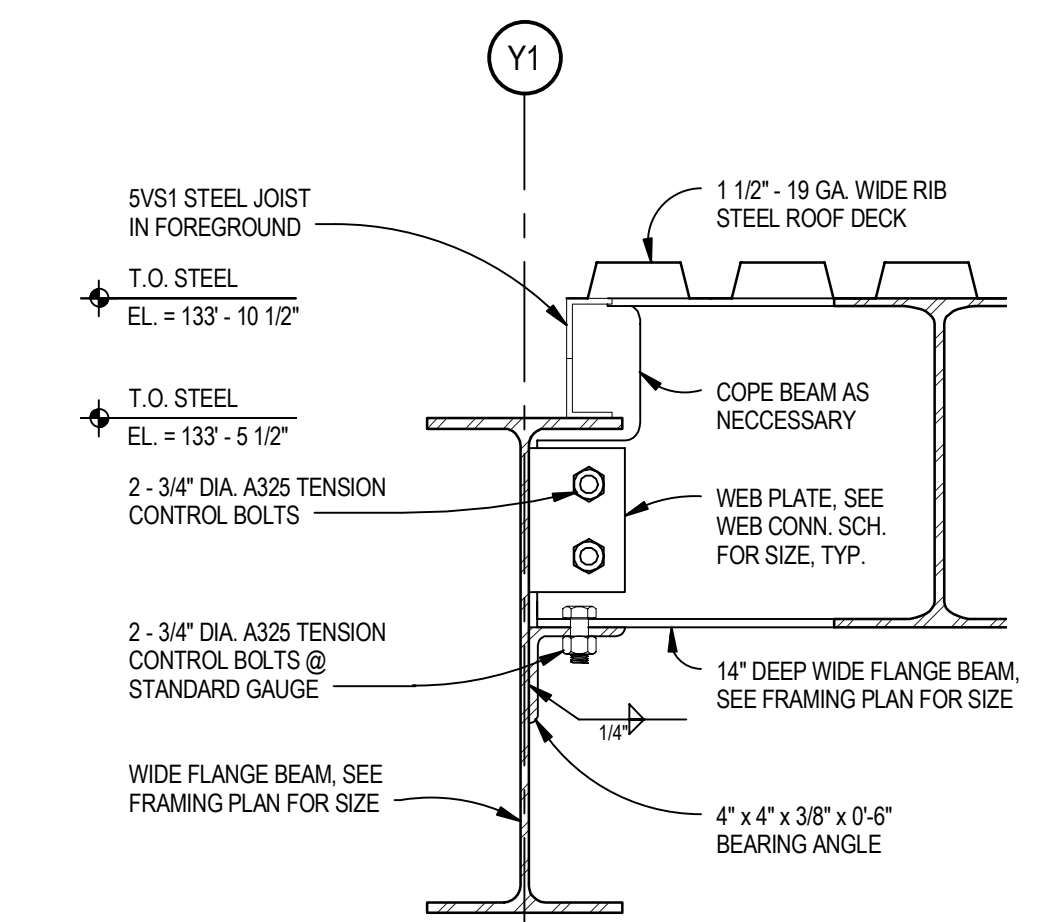




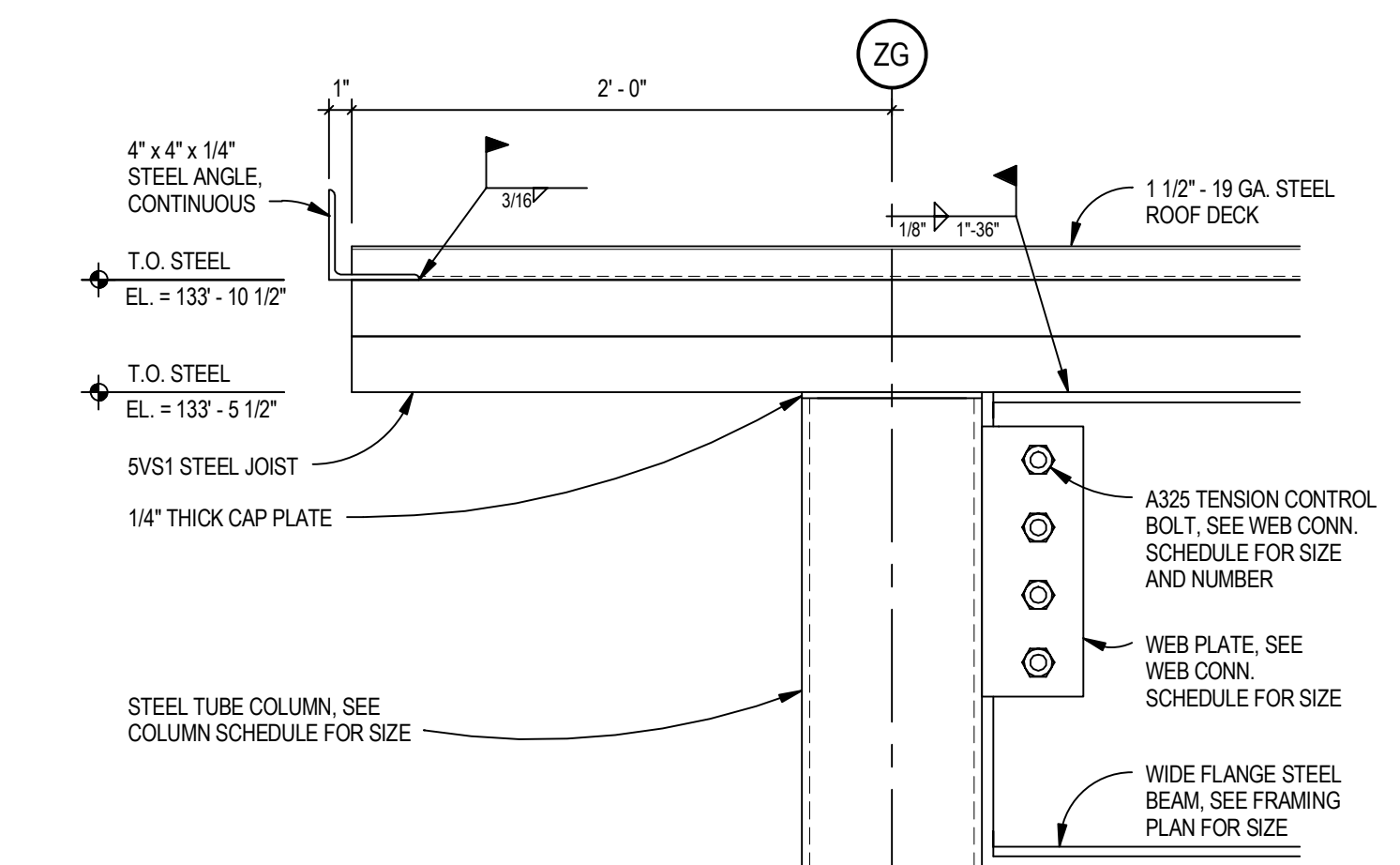
1 ROOF EDGE DETAIL
 SCALE: 1 1/2" = 1'-0"



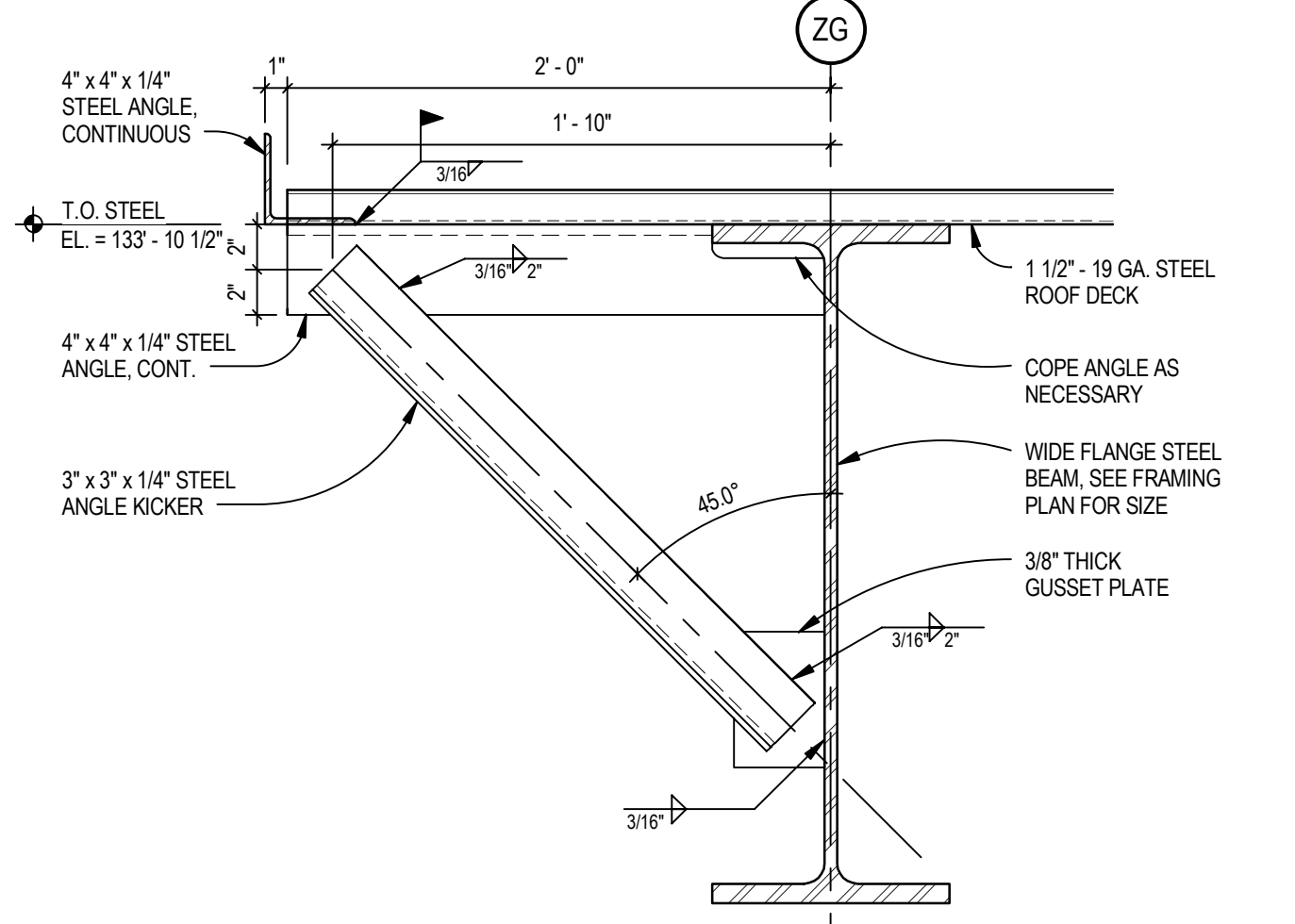
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 SCALE: 1 1/2" = 1'-0"



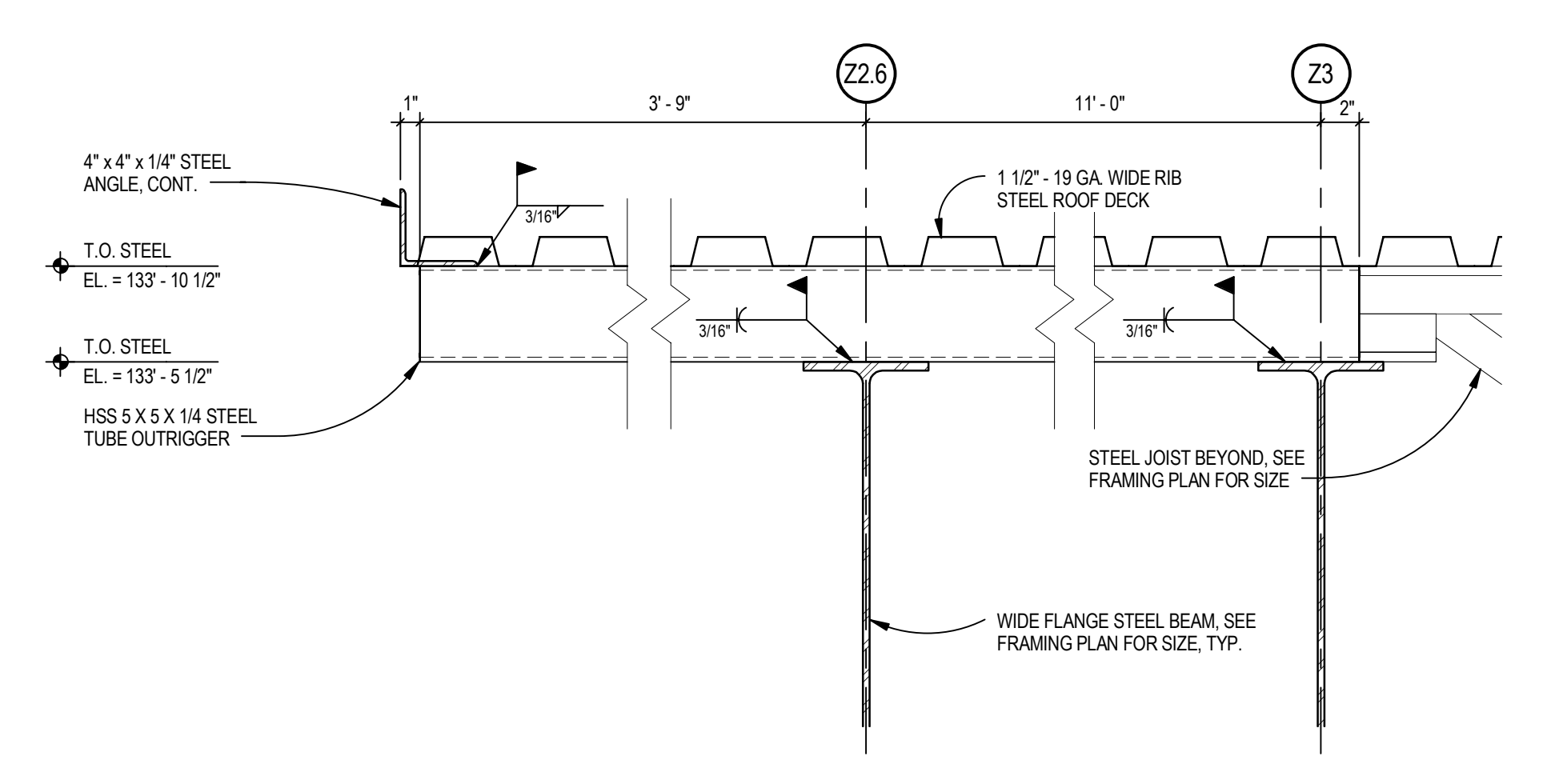
3 CONNECTION DETAIL
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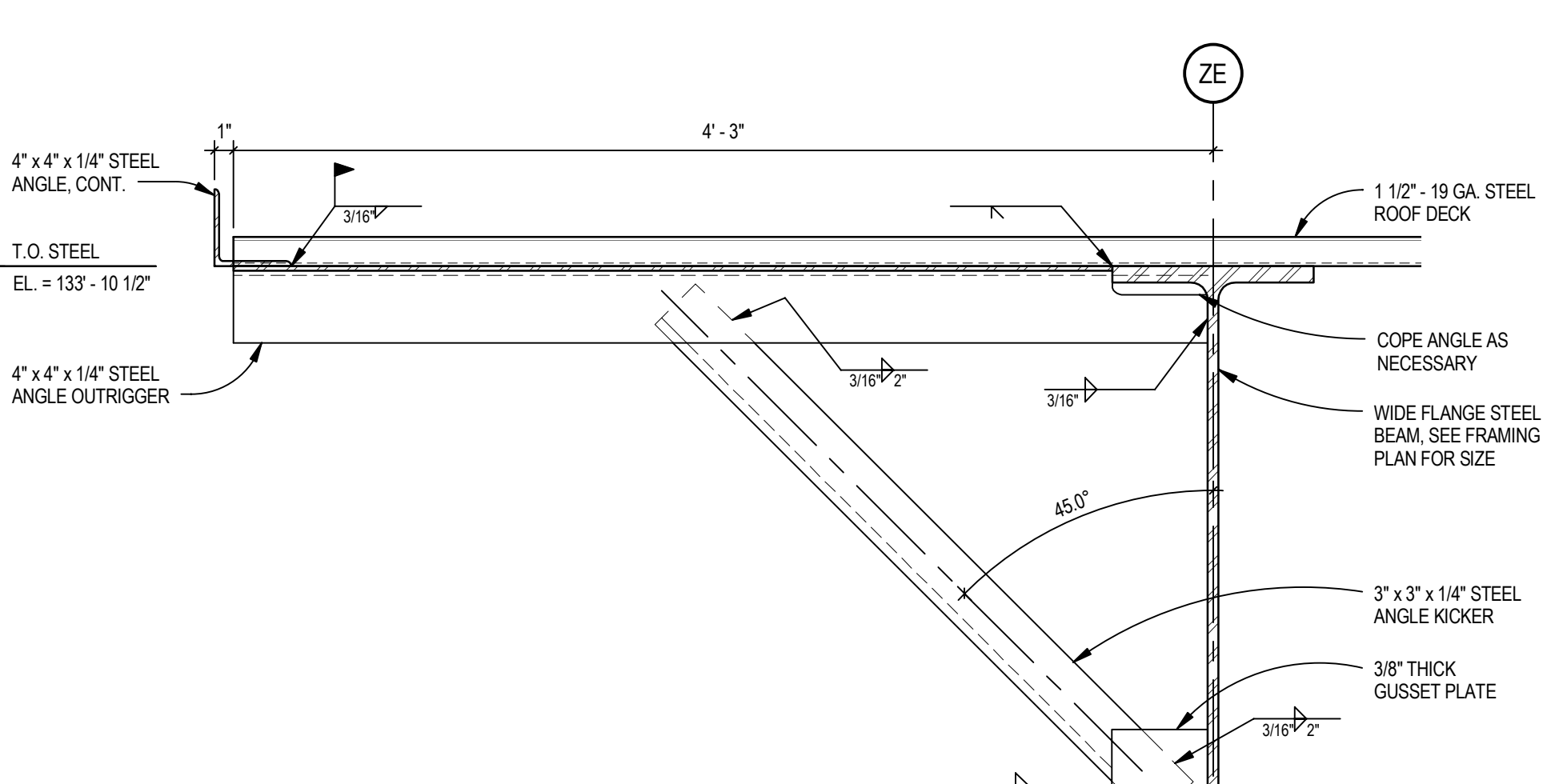
4 FRAMING SECTION
 SCALE: 1 1/2" = 1'-0"



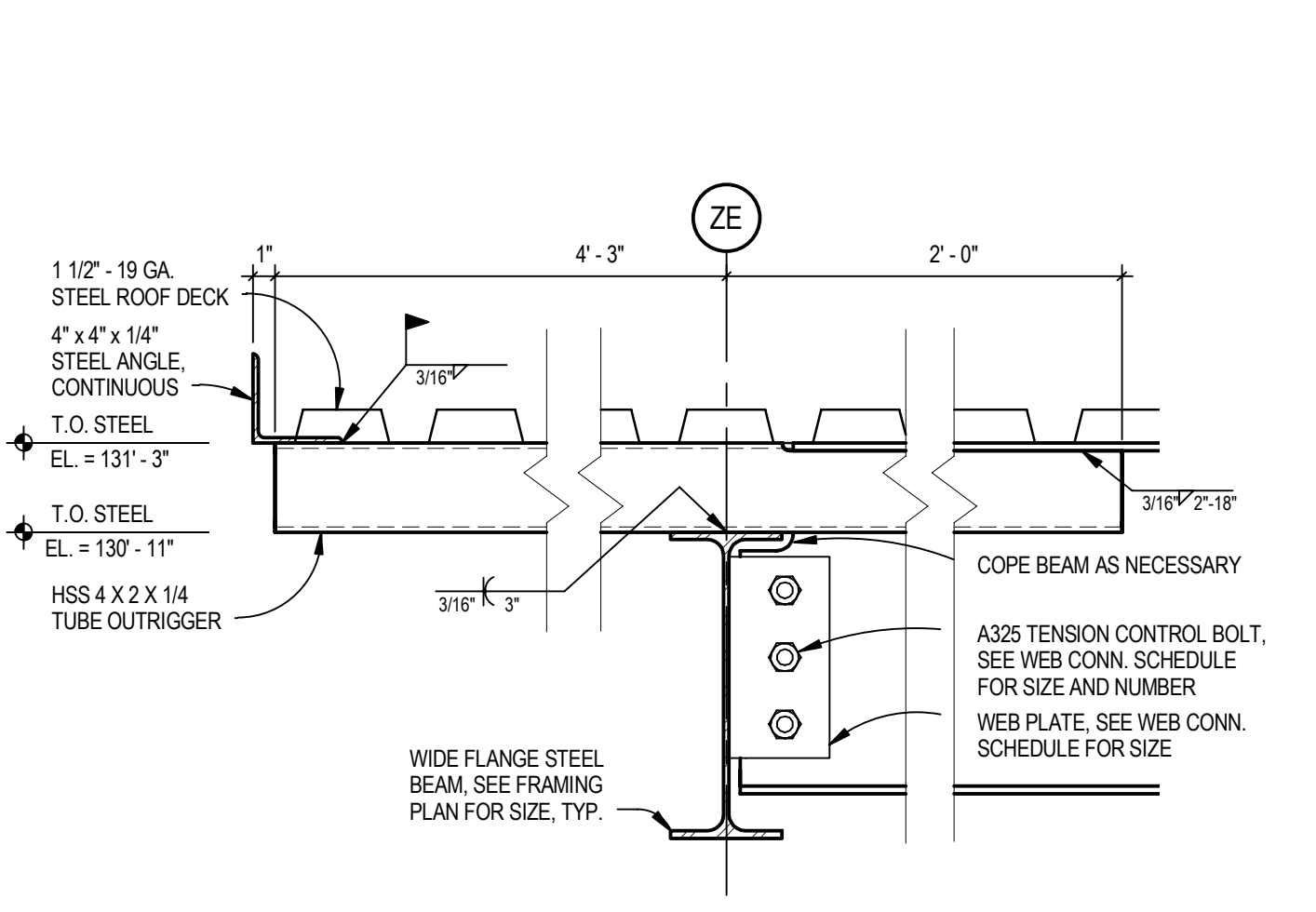
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 SCALE: 1 1/2" = 1'-0"



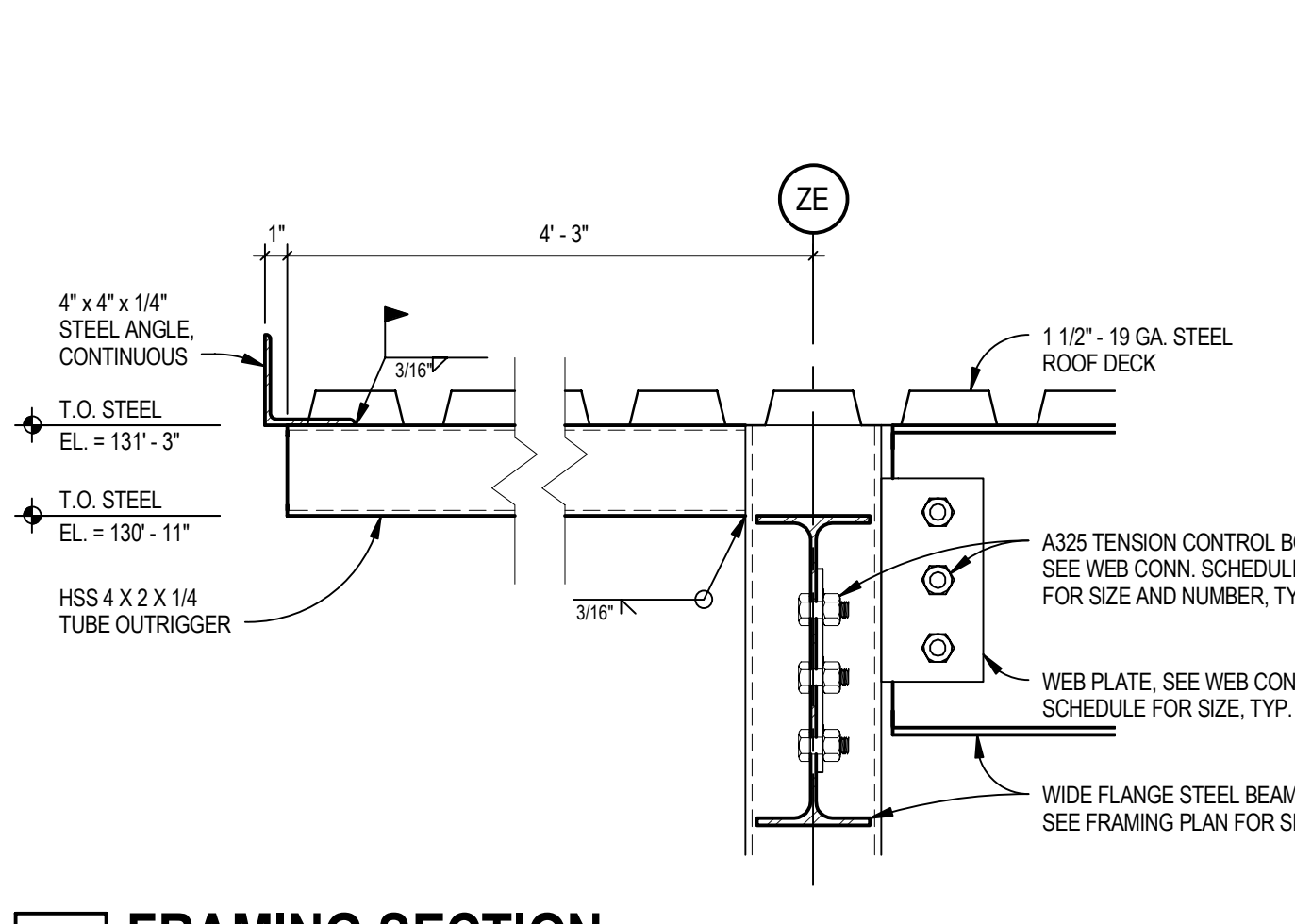
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 SCALE: 1 1/2" = 1'-0"



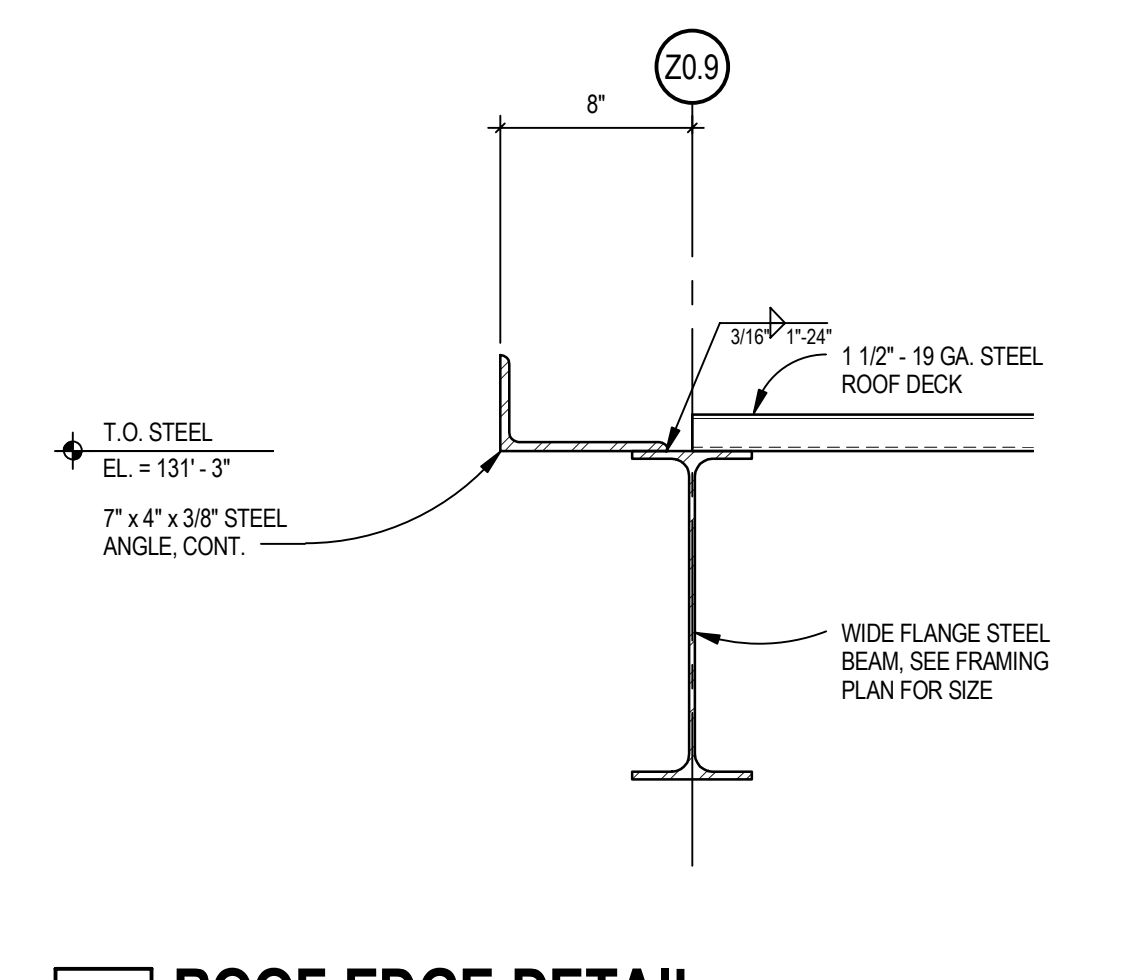
7 FRAMING SECTION
 SCALE: 1 1/2" = 1'-0"



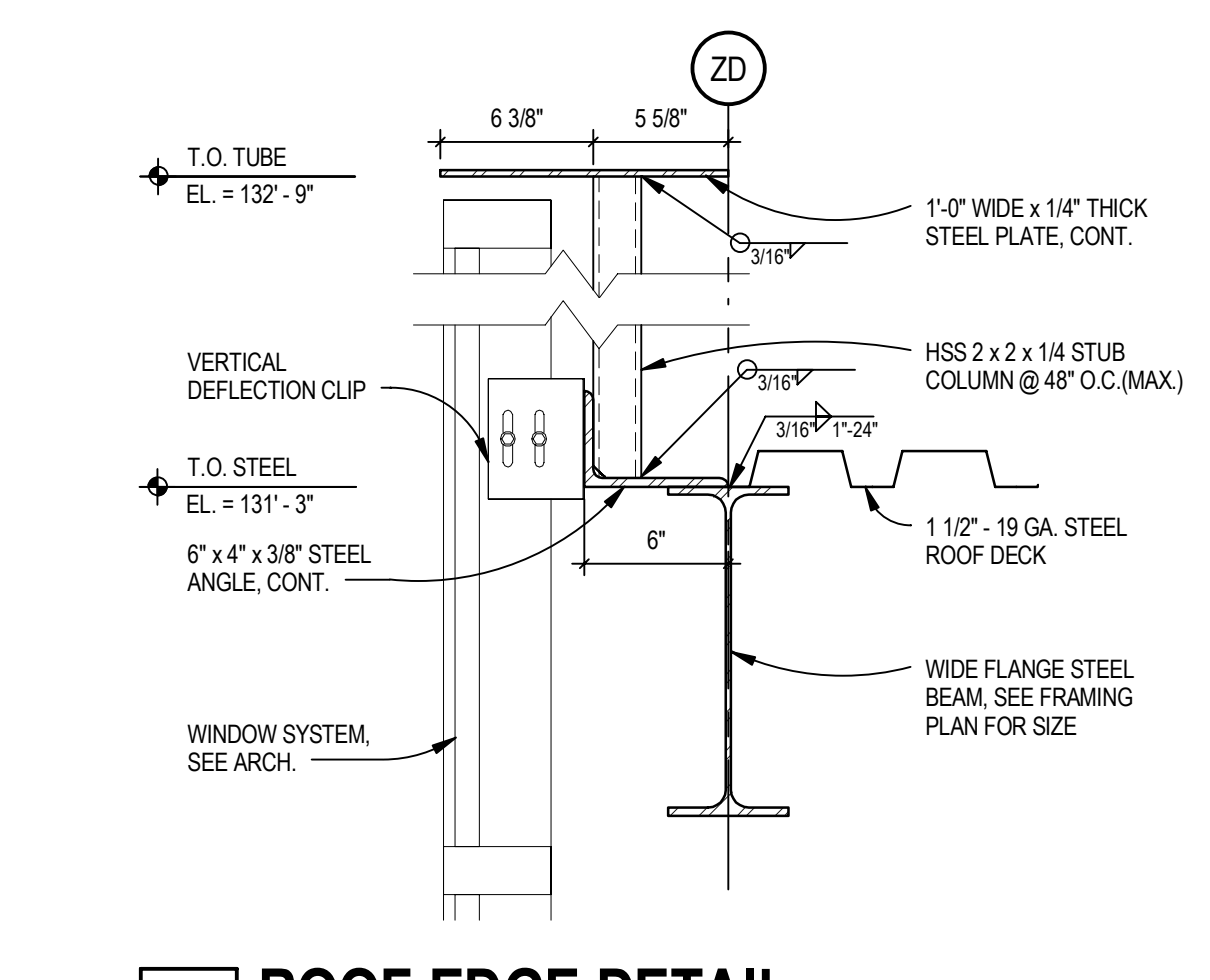
8 FRAMING SECTION
 SCALE: 1 1/2" = 1'-0"



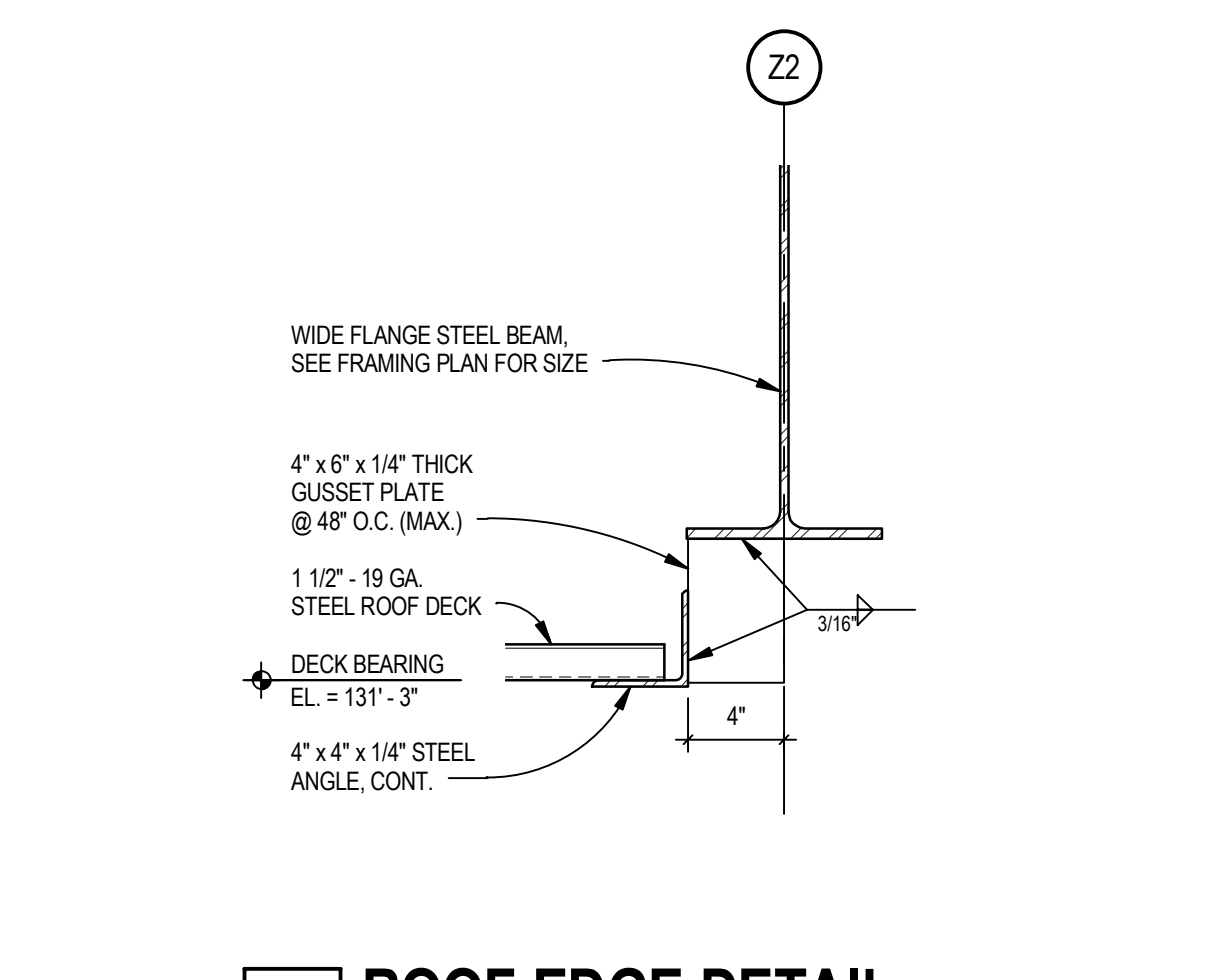
9 FRAMING SECTION
 SCALE: 1 1/2" = 1'-0"



10 ROOF EDGE DETAIL
 SCALE: 1 1/2" = 1'-0"



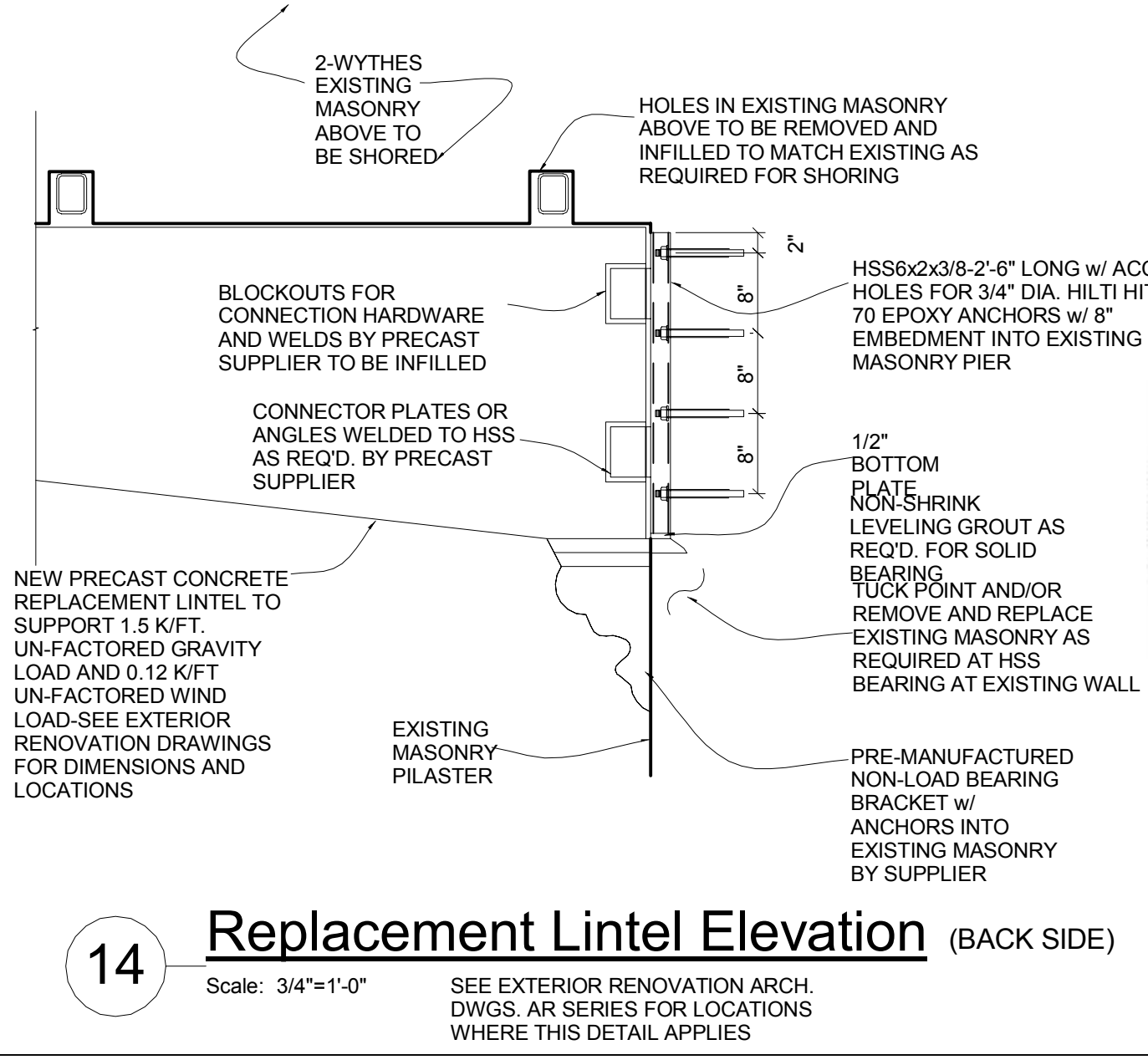
11 ROOF EDGE DETAIL
 SCALE: 1 1/2" = 1'-0"



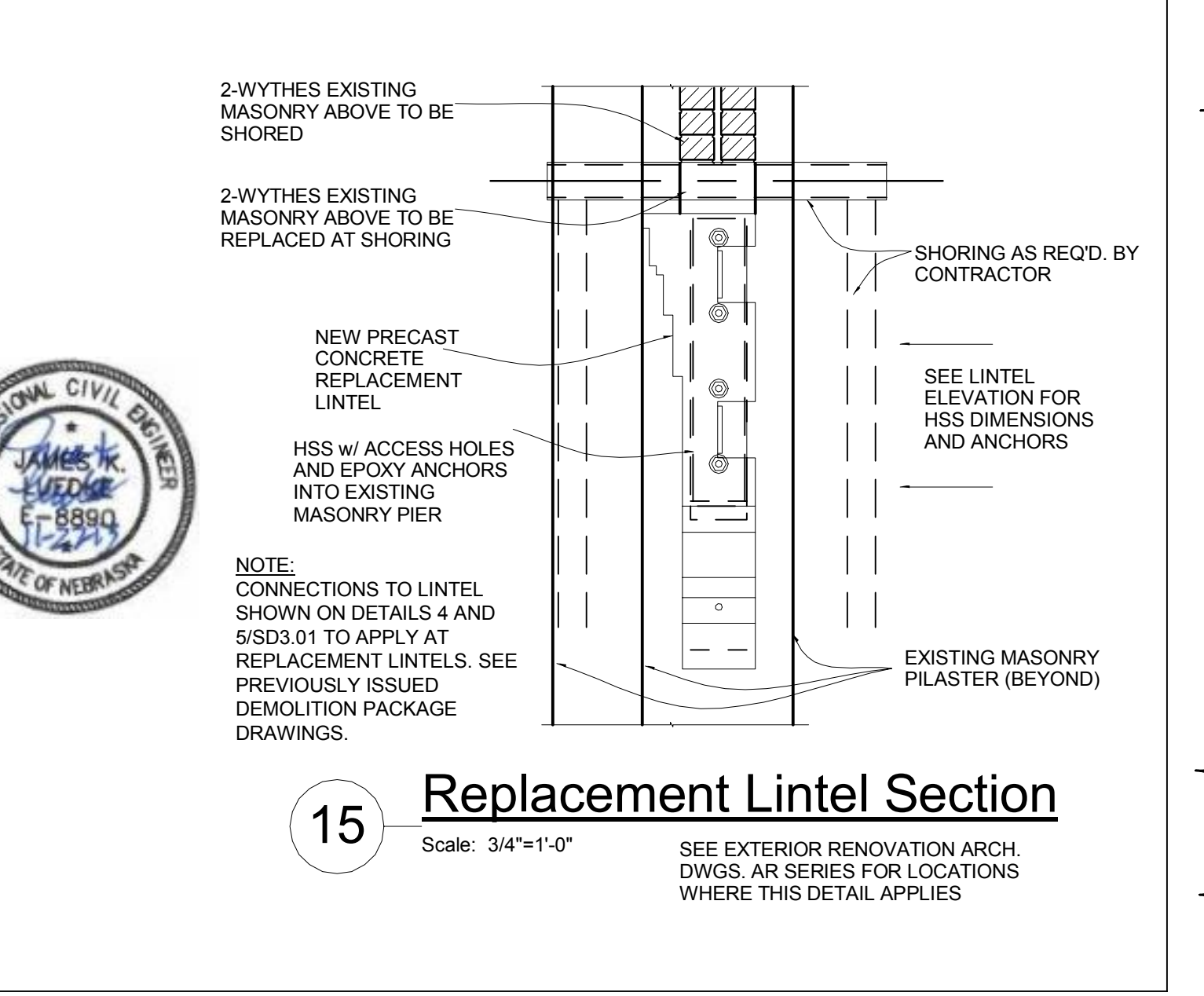
12 ROOF EDGE DETAIL
 SCALE: 1 1/2" = 1'-0"



13 NOT USED
 SCALE: 1 1/2" = 1'-0"

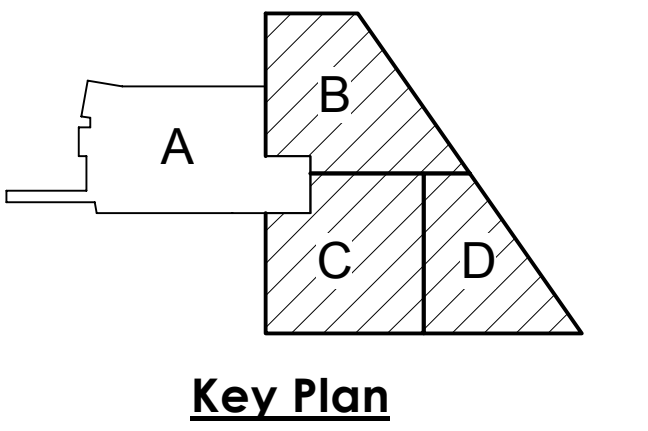


14 Replacement Lintel Elevation (BACK SIDE)
 Scale: 3/4" = 1'-0"



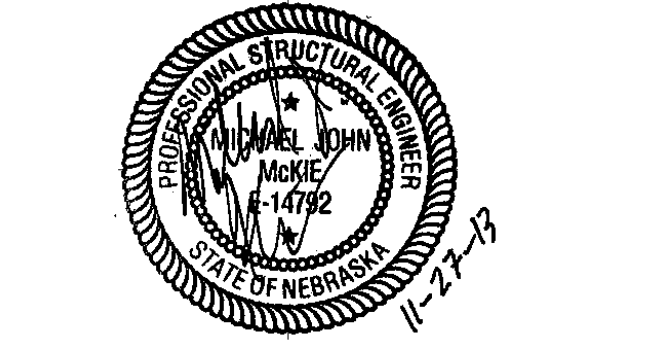
15 Replacement Lintel Section
 Scale: 3/4" = 1'-0"

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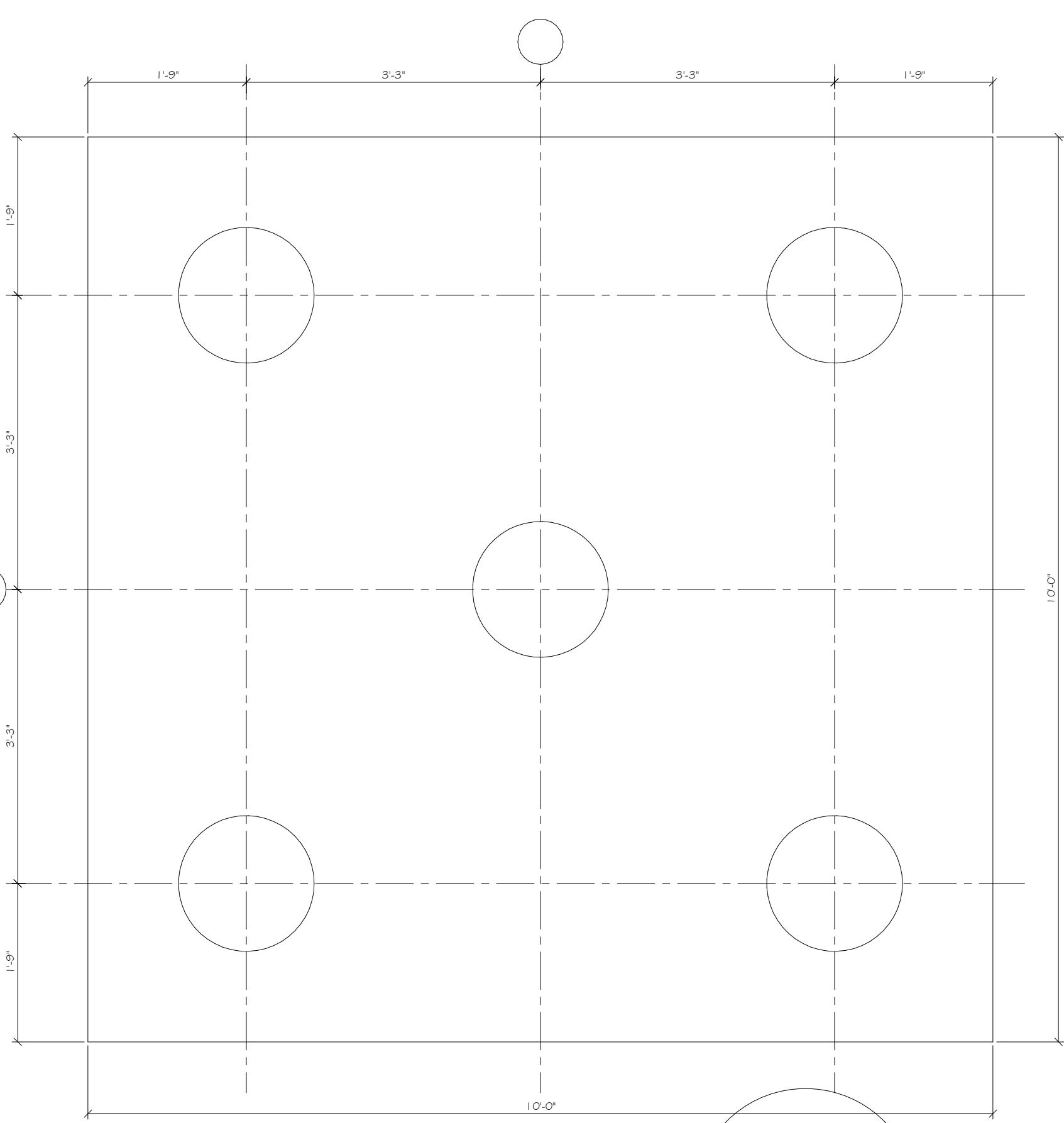
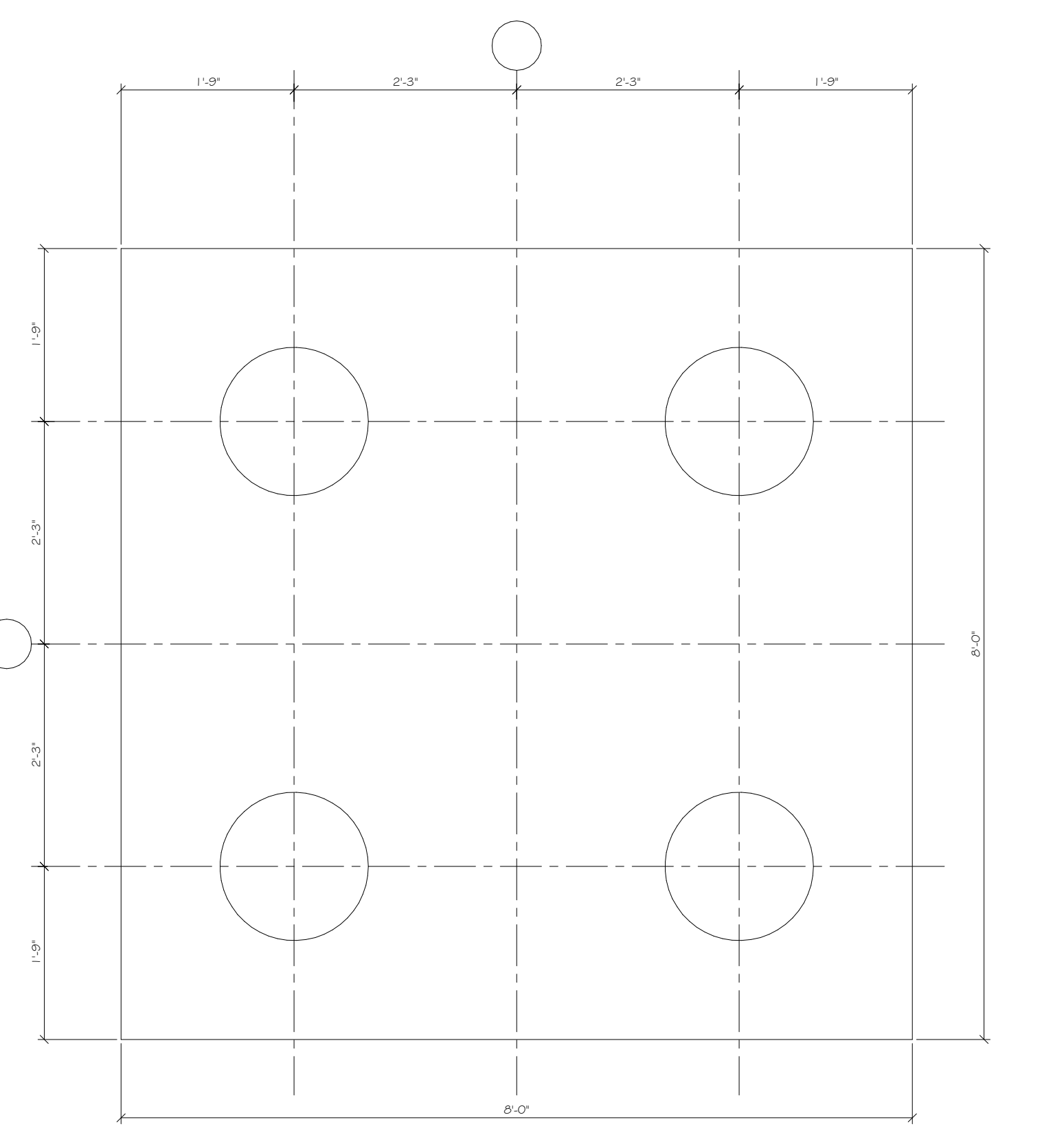
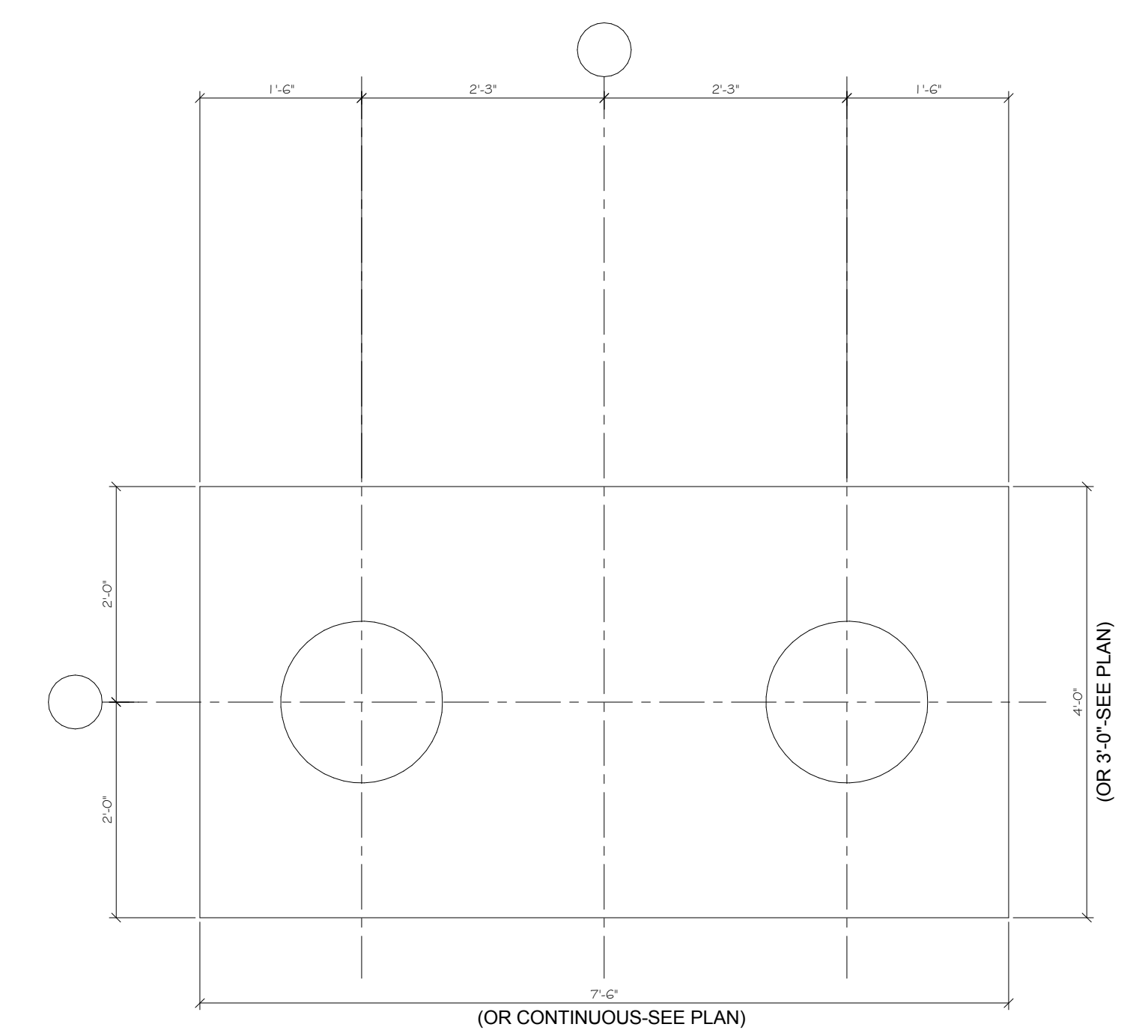
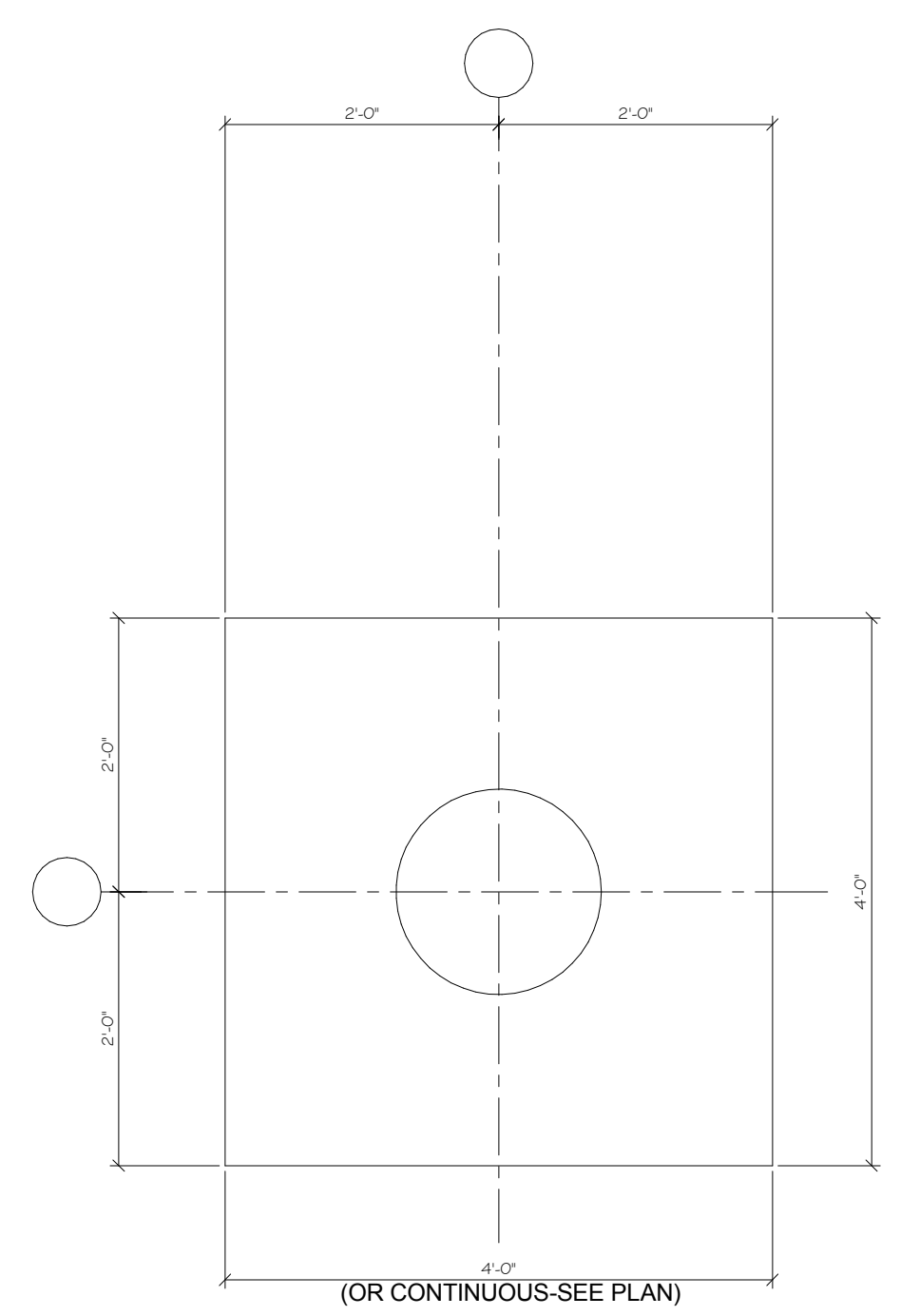
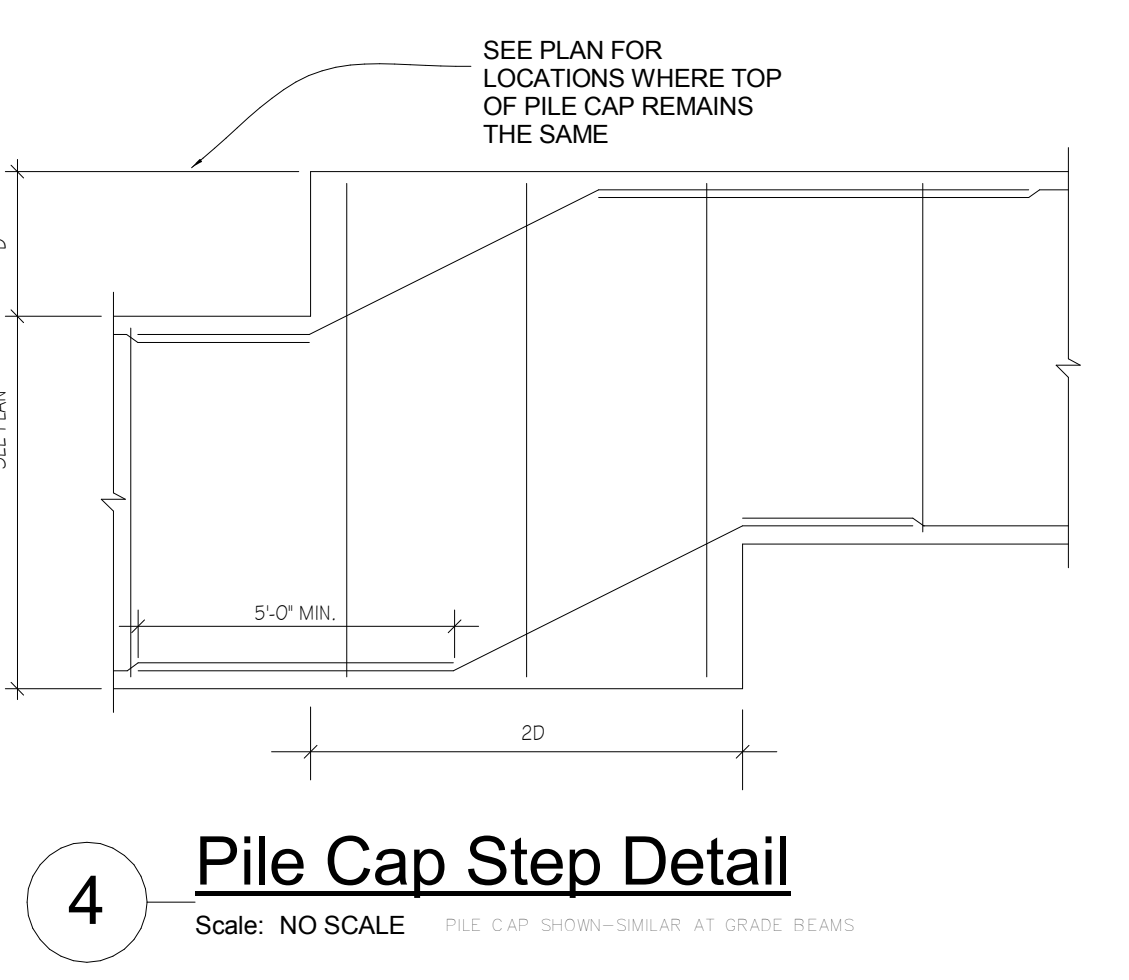
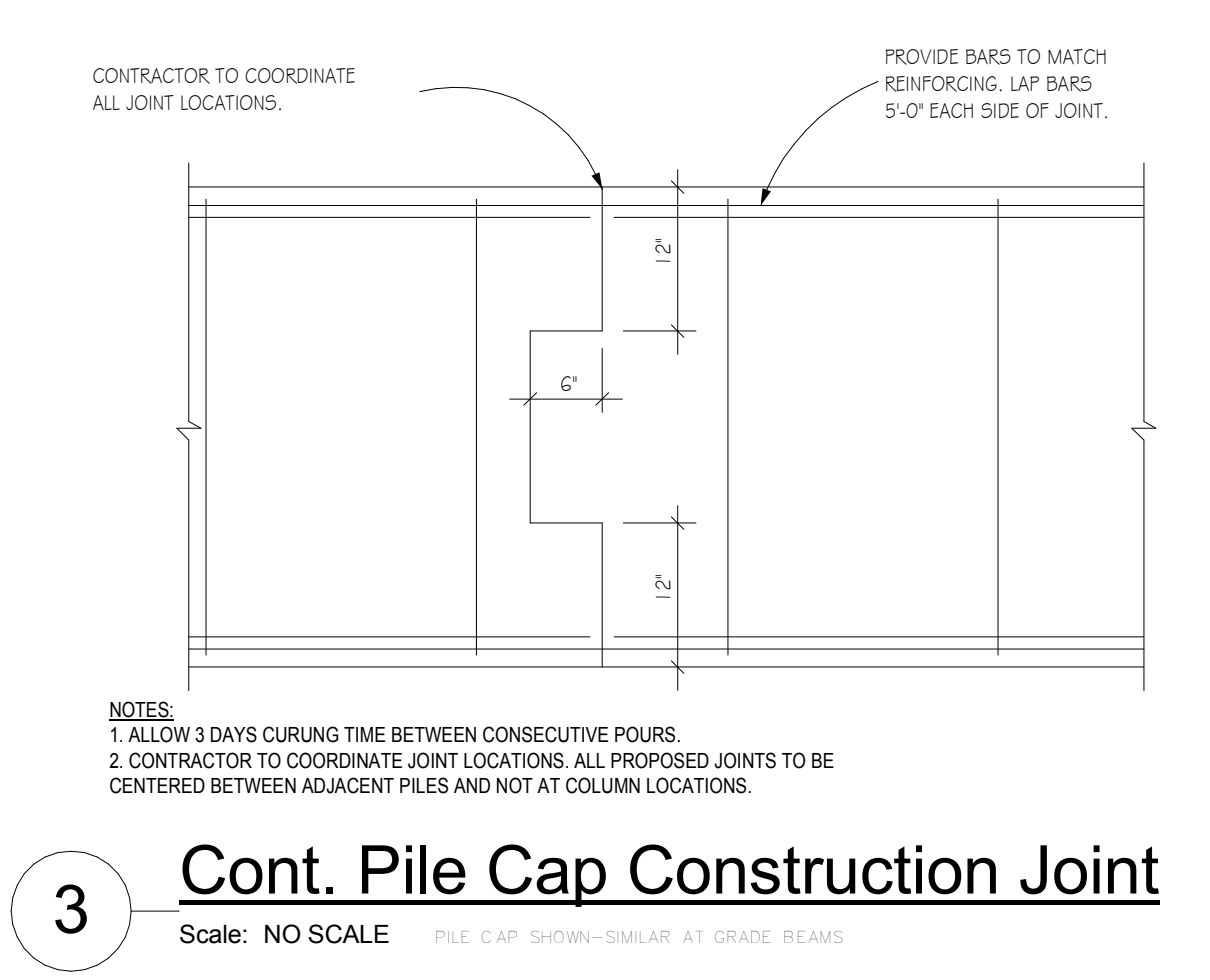
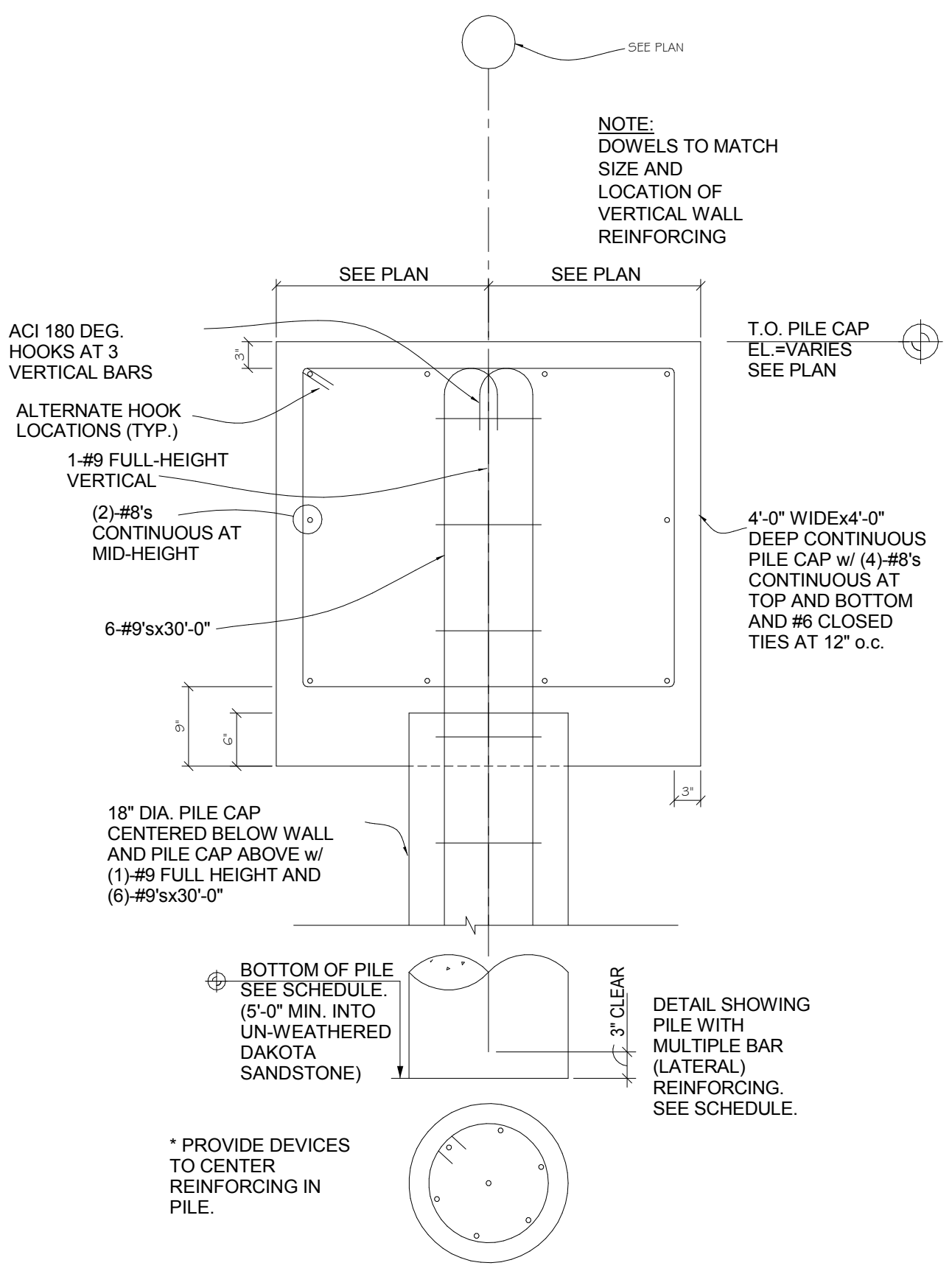
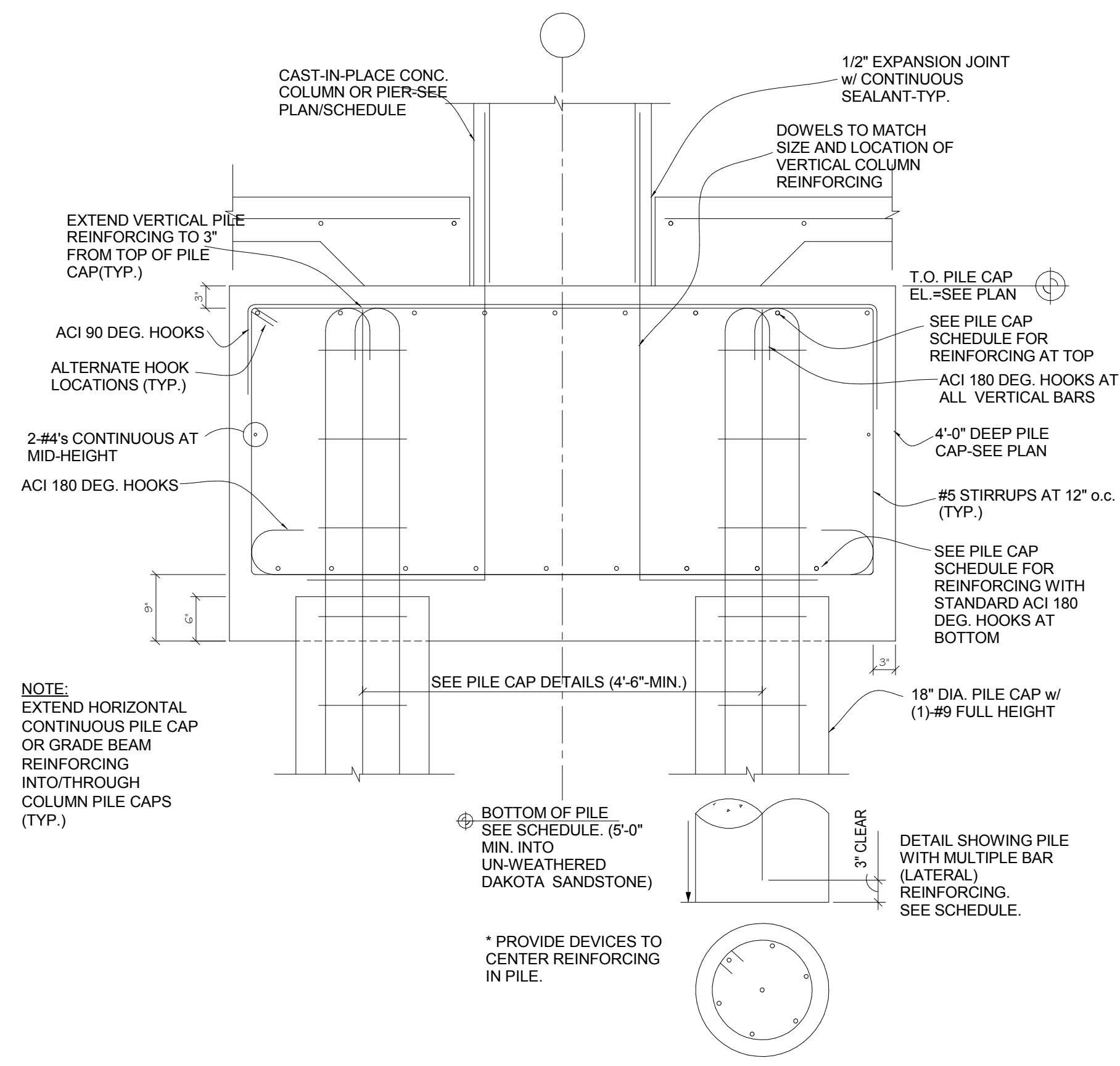
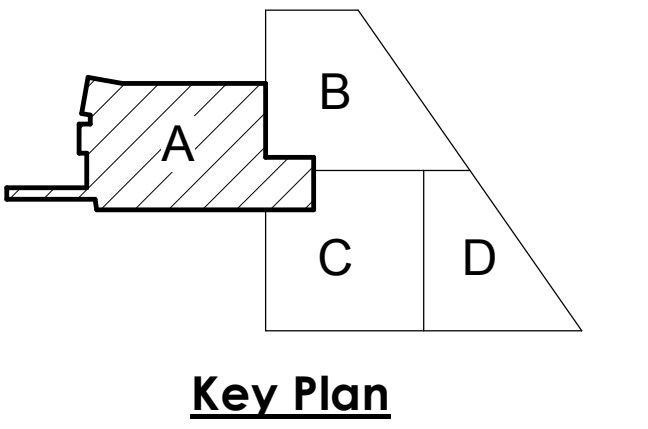


Progress Print

Life Science Collaboration
 1910 N Antelope Valley Parkway
 Lincoln, Nebraska
 TCEP No.: 716-002-12
 Davis Design No.: 12-0077
 BVH No.: L12018.unl
 November 27, 2013



Plot Time Stamp: 12/11/2013 9:38:20 AM
 File Location/Name: C:\1\Kevin\Projects\121716002-148-Struct_mike.mxd



| PILE CAP REINFORCING SCHEDULE | | | | |
|-------------------------------|--|--|---------------------------------|---|
| SIZE | REINFORCING | | DOWELS | REMARKS |
| | LONG WAY | SHORT WAY | | |
| 8'-0"x8'-0"x4'-0" DEEP | 14-#7H @ BOTTOM 14-#5H @ TOP | 14-#7H @ BOTTOM 14-#5H @ TOP | TO MATCH VERT. WALL/COL. REINF. | EXTEND PILE REINF. INTO PILE CAP-TYP. |
| 10'-0"x10'-0"x4'-0" DEEP | 11-#9H @ BOTTOM 11-#6H @ TOP | 11-#9H @ BOTTOM 11-#6H @ TOP | TO MATCH VERT. WALL/COL. REINF. | |
| 7'-6"x4'-0"x4'-0" DEEP | 6-#7H @ BOTTOM 6-#5H @ TOP | 9-#7H @ BOTTOM 9-#5H @ TOP | TO MATCH VERT. WALL/COL. REINF. | |
| 4'-0"x4'-0"x4'-0" DEEP | 6-#7H @ BOTTOM 6-#5H @ TOP | 6-#7H @ BOTTOM 6-#5H @ TOP | TO MATCH VERT. WALL/COL. REINF. | |
| 4'-0"x4'-0" DEEP/CONTINUOUS | 4-#8H @ BOTTOM 4-#8H @ TOP | #6 CLOSED TIES AT 12" o.c.-TYP. | TO MATCH VERT. WALL/COL. REINF. | ALTERNATE TIE HOOK LOCATIONS |
| 3'-0"x4'-0" DEEP/CONTINUOUS | 4-#8H @ BOTTOM 4-#8H @ TOP | #6 CLOSED TIES AT 12" o.c.-TYP. | TO MATCH VERT. WALL/COL. REINF. | ALTERNATE TIE HOOK LOCATIONS |
| 2'-6" DEEP @ ELEVATORS | #7H @ 6" o.c. @ BOT. #6H @ 12" o.c. @ TOP | #7H @ 6" o.c. @ BOT. #6H @ 12" o.c. @ TOP | TO MATCH VERT. WALL/COL. REINF. | PROVIDE 2-ADDITIONAL BARS AT EA. SIDE OF SUMP PIT |

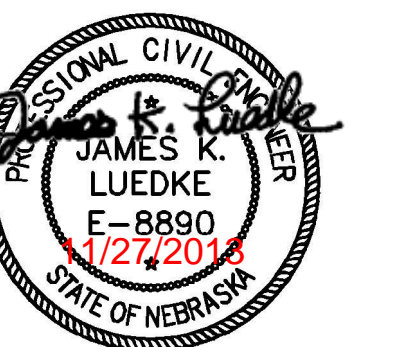
| PAD FOOTING SCHEDULE | | |
|------------------------|---------------------------|---------------------------|
| SIZE | REINFORCING* | REMARKS |
| 3'-6"x3'-6"x1'-0" DEEP | 4-#5'S EACH WAY AT BOTTOM | AT ENTRANCE STAIR LANDING |

*TOTAL AREA OF PAD FOOTING TENSILE REINFORCING PROVIDES 1/3 GREATER THAN THAT REQUIRED BY ANALYSIS PER ACI 10.5.3
ALLOWABLE SOIL CAPACITY BASED ON 2000 PSF PER GEOTECH REPORT

| CMU WALL SCHEDULE | | |
|-------------------|-----------------|---|
| SIZE | REINFORCING | REMARKS |
| 4" OR 6" | NONE | PROVIDE CONT. BOND BEAM w/ (2)#4'S CONTINUOUS AT ALL BEARING AND T.O. WALL LOCATIONS U.N.O. PROVIDE HORIZ. LADDER-TYPE REINF. AT 16" o.c. |
| 6" | #4'S @ 16" o.c. | AT PENTHOUSE PERIMETER |

| GRADE BEAM SCHEDULE | | | | |
|---------------------|------------------------------------|--------------|------------|---|
| SIZE | REINFORCING* | | | REMARKS |
| | CONTINUOUS | LONGITUDINAL | TRANSVERSE | |
| 10"x3'-4" DEEP | #4'S AT 12" o.c. EACH WAY | - | - | AT FROST SLABS |
| 12"x3'-1 1/2" DEEP | #5'S AT 12" o.c. EACH WAY EA. FACE | - | - | AT FROST SLABS NEAR 4TH BLDG-VERIFY DEPTH w/ EXISTING |

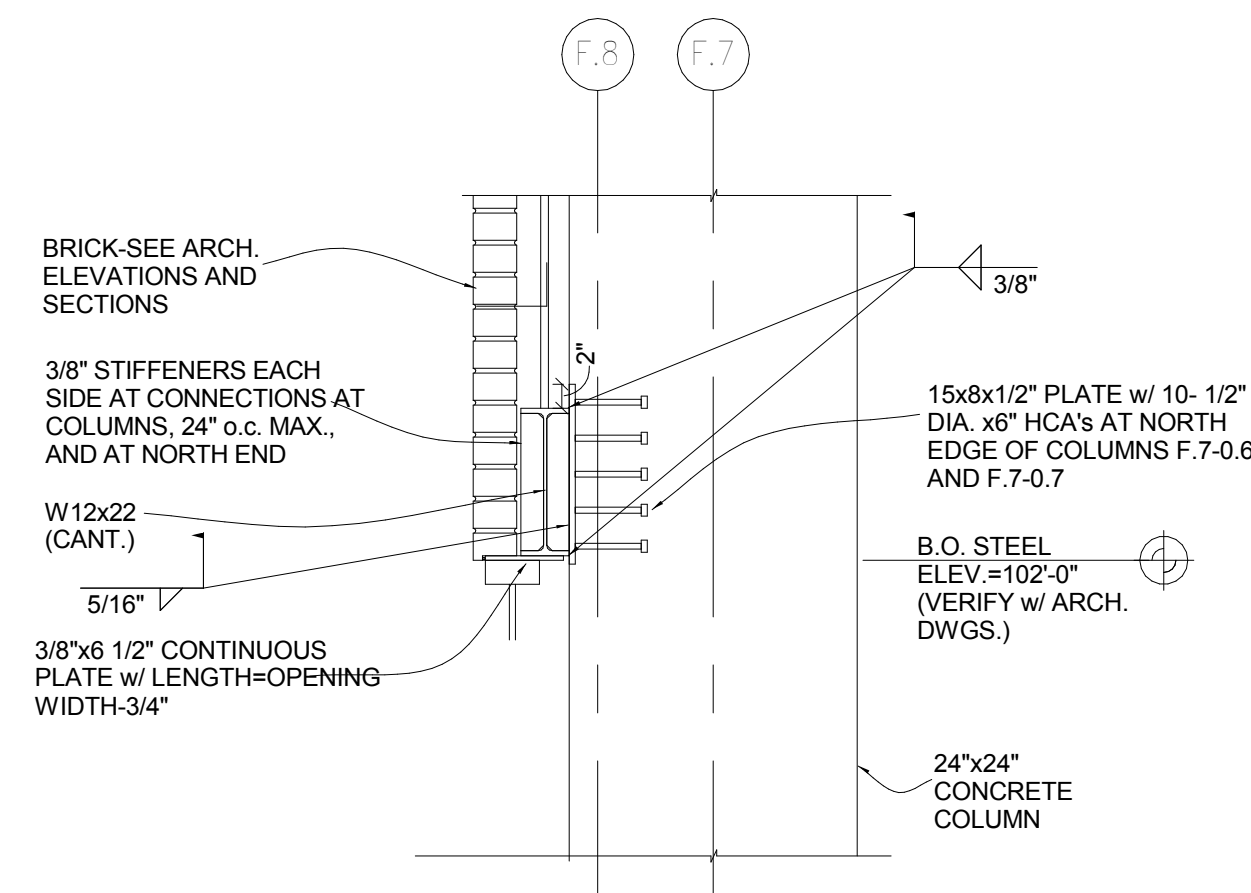
*TOTAL AREA OF GRADE BEAM TENSILE REINFORCING PROVIDES 1/3 GREATER THAN THAT REQUIRED BY ANALYSIS PER ACI 10.5.3
ALLOWABLE SOIL CAPACITY BASED ON 2000 PSF PER GEOTECH REPORT



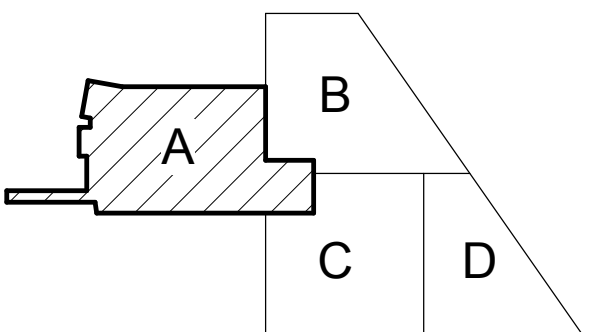


SHEET HISTORY:

| ISSUED | 11/27/2013 | AS PER CONSTRUCTION DOCUMENTS |
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| 1 | 12/11/2013 | Addendum #1 |



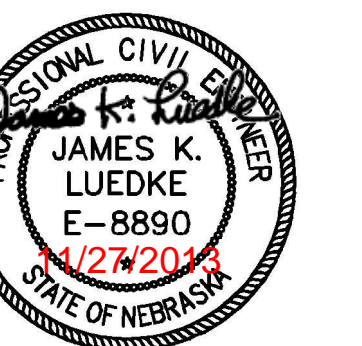
1 Brick Support Detail
Scale: 3/4" = 1'-0" APPLIES AT BRICK ABOVE THE CURTAIN WALL DOORS



Key Plan

Life Science Collaboration

1910 N Antelope Valley Parkway
Lincoln, Nebraska
TCEP No.: 716-002-12
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GENERAL PLAN NOTES

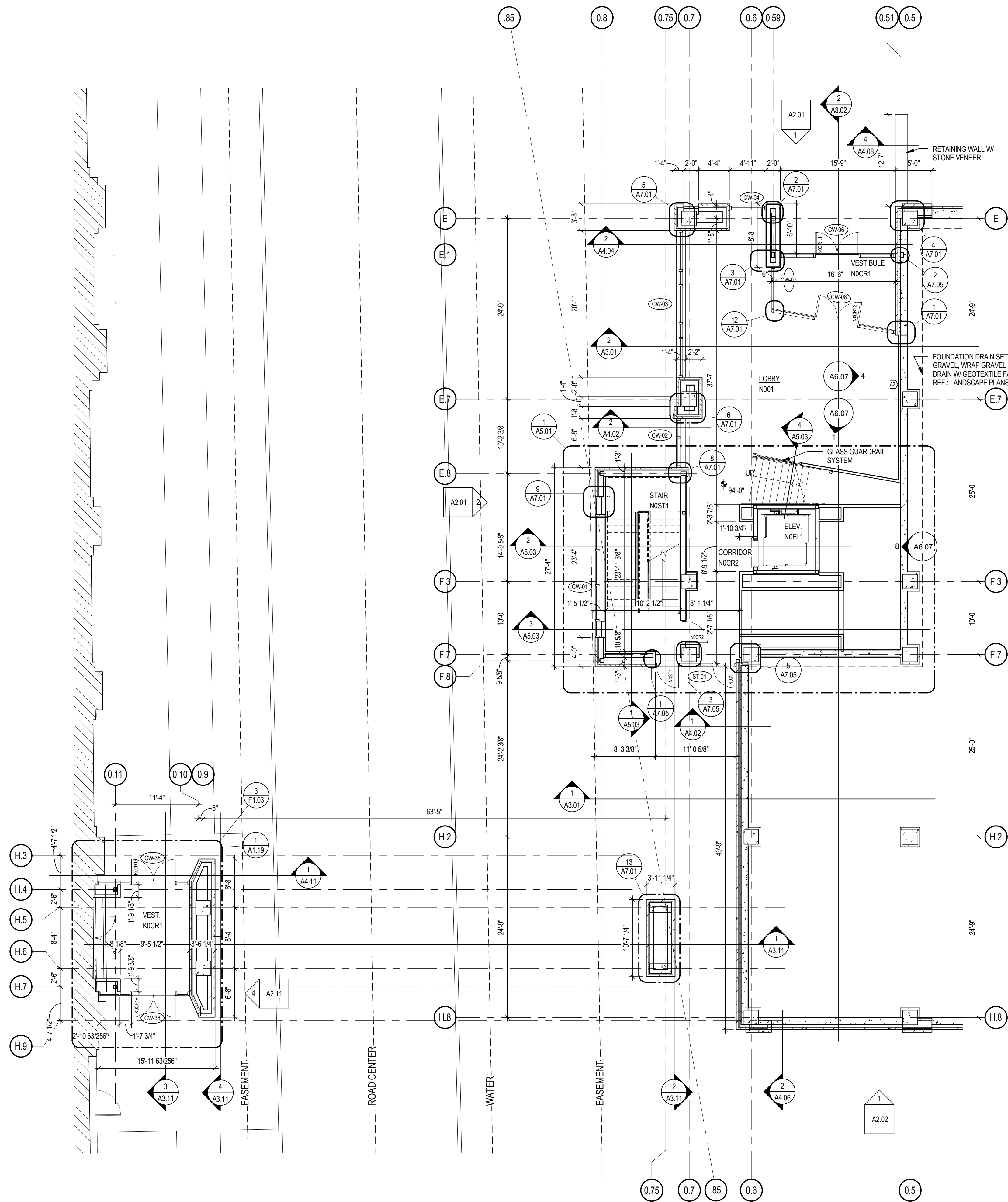
- GENERAL PLAN NOTES APPLY TO ALL FLOOR PLAN SHEETS
- LOWER FLOOR ELEVATION 94'-0" = CIVIL GRADE ELEVATION 1155.83
FIRST FLOOR ELEVATION 100'-0" = CIVIL GRADE ELEVATION 1161.83
- ALL SPANDREL GLAZING SHALL HAVE CURTAINWALL INSULATION INSET IN FRAME AND METAL STUD AND GPDW WALLS WITH THERMAL BATT INSUL. AT INTERIOR SIDE OF GLAZING. REF.: TYP. SPANDREL DETAIL
- SEE SHEET A1.00 FOR WALL TYPE SCHEDULE
- DIMENSIONS ARE TO FACE OF GYPSUM DRYWALL UNLESS OTHERWISE NOTED
- REF.: A6.01 FOR INTERIOR HM FRAME TYPES.
REF.: A6.02 & A6.03 FOR STOREFRONT & CURTAINWALL FRAME TYPES.
REF.: A6.04 FOR SKYWALK CURTAINWALL FRAME TYPES

EXPANSION JOINT SCHEDULE

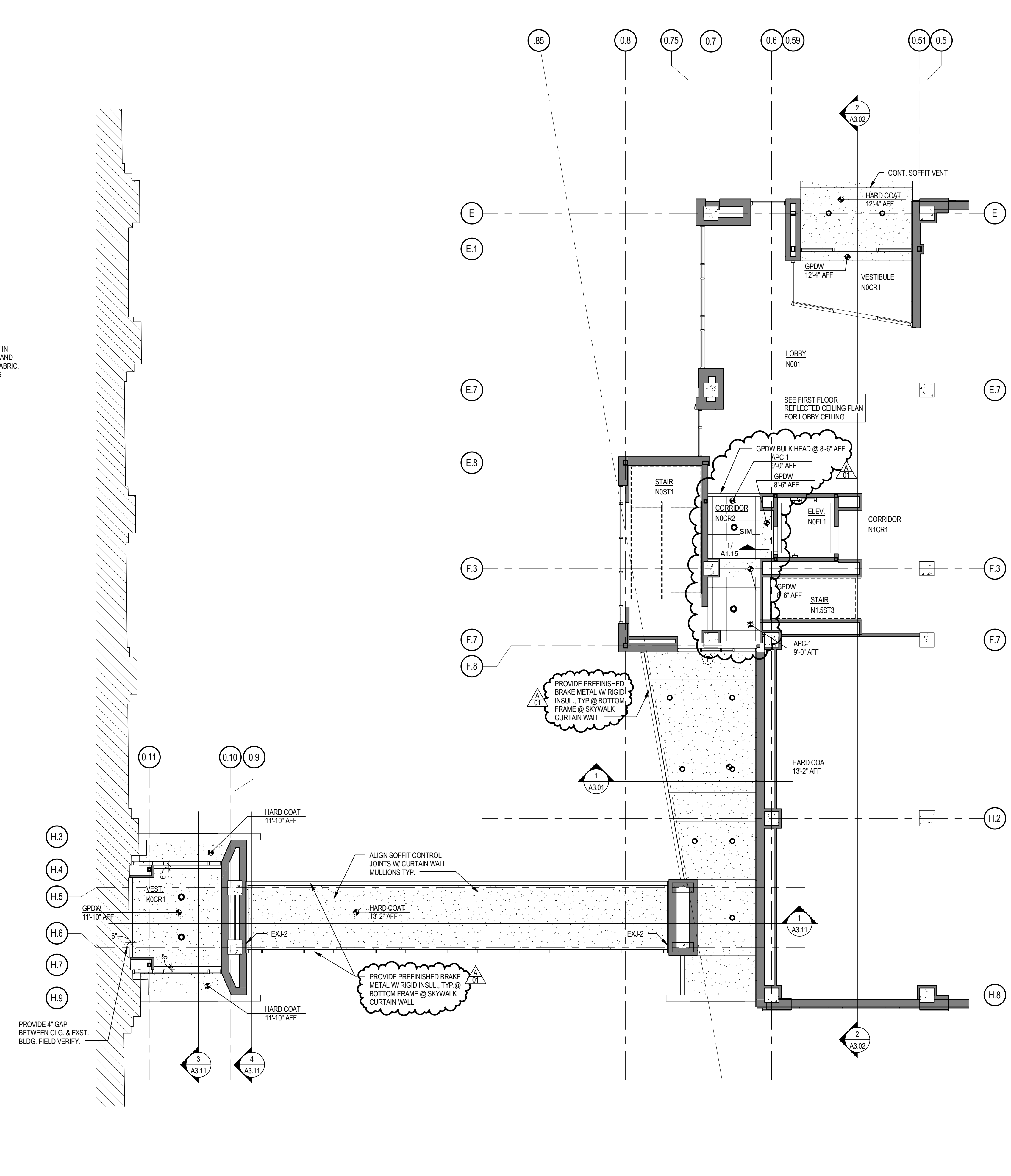
| TAG | DESCRIPTION |
|------|--|
| EJ-1 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS LASB-NBR 2-1 @ FLOOR TO FLOOR RECESS MOUNT W/ FIRE BARRIER OR APPROVED EQUAL |
| EJ-2 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS FSW-200 @ WALL/CEILING TO WALL/CEILING CONNECTION OR APPROVED EQUAL |
| EJ-3 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS ERJL-200 @ ROOF TO WALL CONNECTION (EXTERIOR CONDITION) OR APPROVED EQUAL |
| EJ-4 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS ESS-200 @ WALL/CLG. TO WALL CONNECTION (EXTERIOR CONDITION) OR APPROVED EQUAL |
| EJ-5 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS ERJ-200 @ ROOF TO ROOF CONNECTION (EXTERIOR CONDITION) OR APPROVED EQUAL |
| EJ-6 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS FSE-200 @ WALL TO FLOOR RECESS MOUNT W/ FIRE BARRIER OR APPROVED EQUAL |
| EJ-7 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS FSWL-200 @ WALL TO WALL CONNECTION OR APPROVED EQUAL |

REFLECTED CEILING LEGEND

| | | | |
|--|---|--|---|
| | 5/8" SUSPENDED GPDW CEILING SYSTEM | | RECESSED DOWNLIGHT, REF. ELEC. |
| | ACOUSTICAL PANEL CEILING SYSTEM | | EXIT SIGNAGE, REF. ELEC. |
| | 2X2 ACCESS PANEL | | RETURN AIR EXHAUST AIR GRILLE, REF. MECH. |
| | RECESSED & PENDANT MOUNTED LIGHT FIXTURES, REF. ELEC. | | SUPPLY AIR DIFFUSER, REF. MECH. |

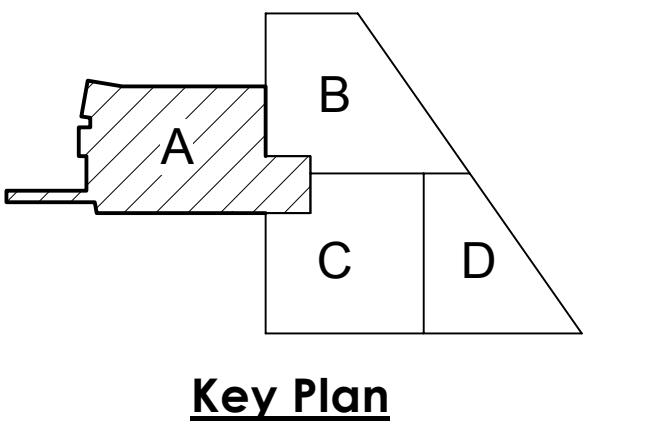


1 LOWER LEVEL FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"



2 LOWER LEVEL REFLECTED CEILING PLAN - AREA A
SCALE: 1/8" = 1'-0"

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Lower Level Floor Plan &
 Reflected Ceiling Plan -
 Area A

A1.01

GENERAL PLAN NOTES

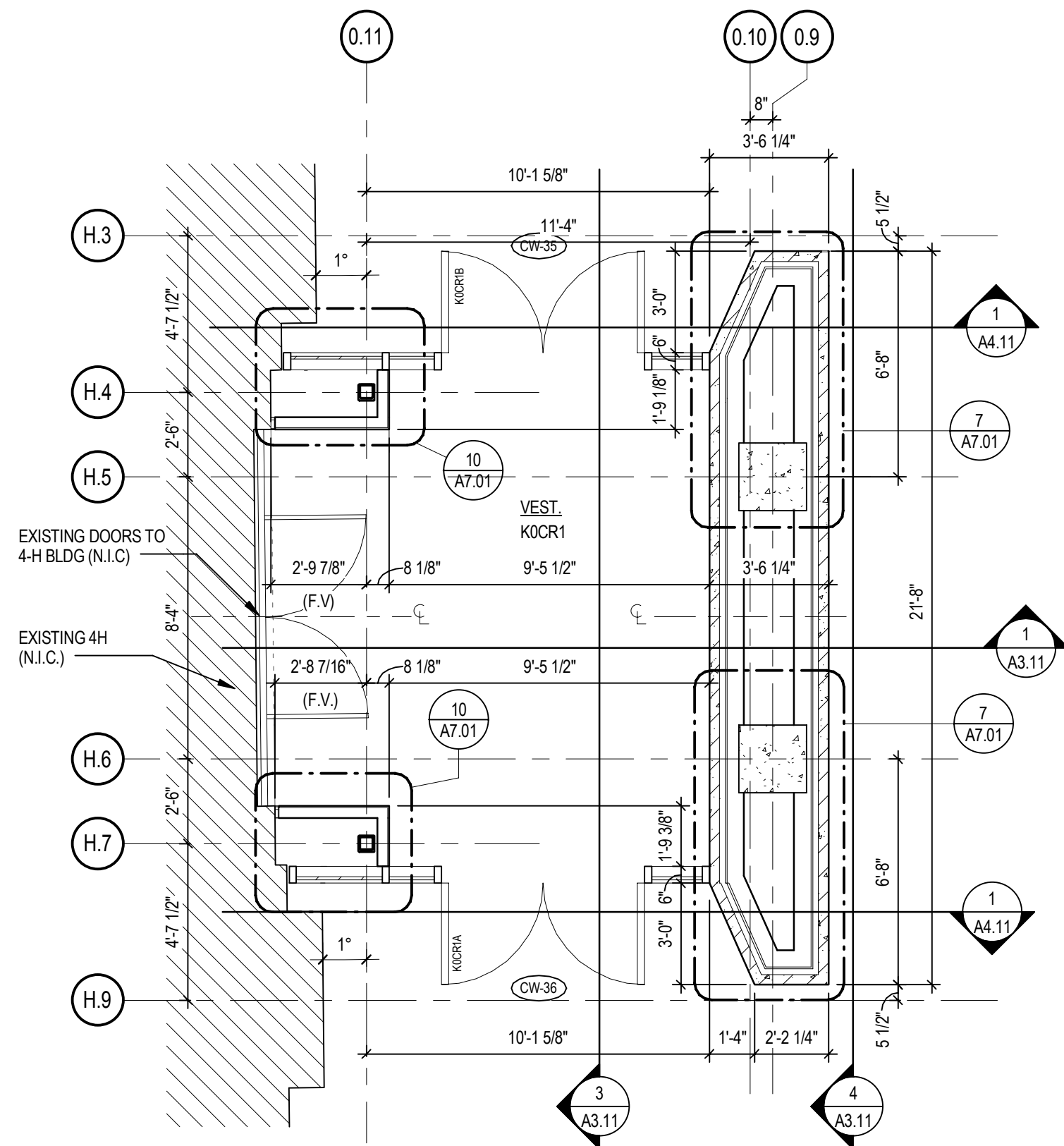
- GENERAL PLAN NOTES APPLY TO ALL FLOOR PLAN SHEETS
- LOWER FLOOR ELEVATION 94'-0" = CIVIL GRADE ELEVATION 1155.83
FIRST FLOOR ELEVATION 100'-0" = CIVIL GRADE ELEVATION 1161.83
- ALL SPANDREL GLAZING SHALL HAVE CURTAINWALL INSULATION INSET IN FRAME AND METAL STUD AND GPDW WALLS WITH THERMAL BATT INSUL. AT INTERIOR SIDE OF GLAZING. REF.: TYP. SPANDREL DETAIL
- SEE SHEET A1.00 FOR WALL TYPE SCHEDULE
- DIMENSIONS ARE TO FACE OF GYPSUM DRYWALL UNLESS OTHERWISE NOTED
- REF.: A6.01 FOR INTERIOR HM FRAME TYPES.
REF.: A6.02 & A6.03 FOR STOREFRONT & CURTAINWALL FRAME TYPES.
REF.: A6.04 FOR SKYWALK CURTAINWALL FRAME TYPES

EXPANSION JOINT SCHEDULE

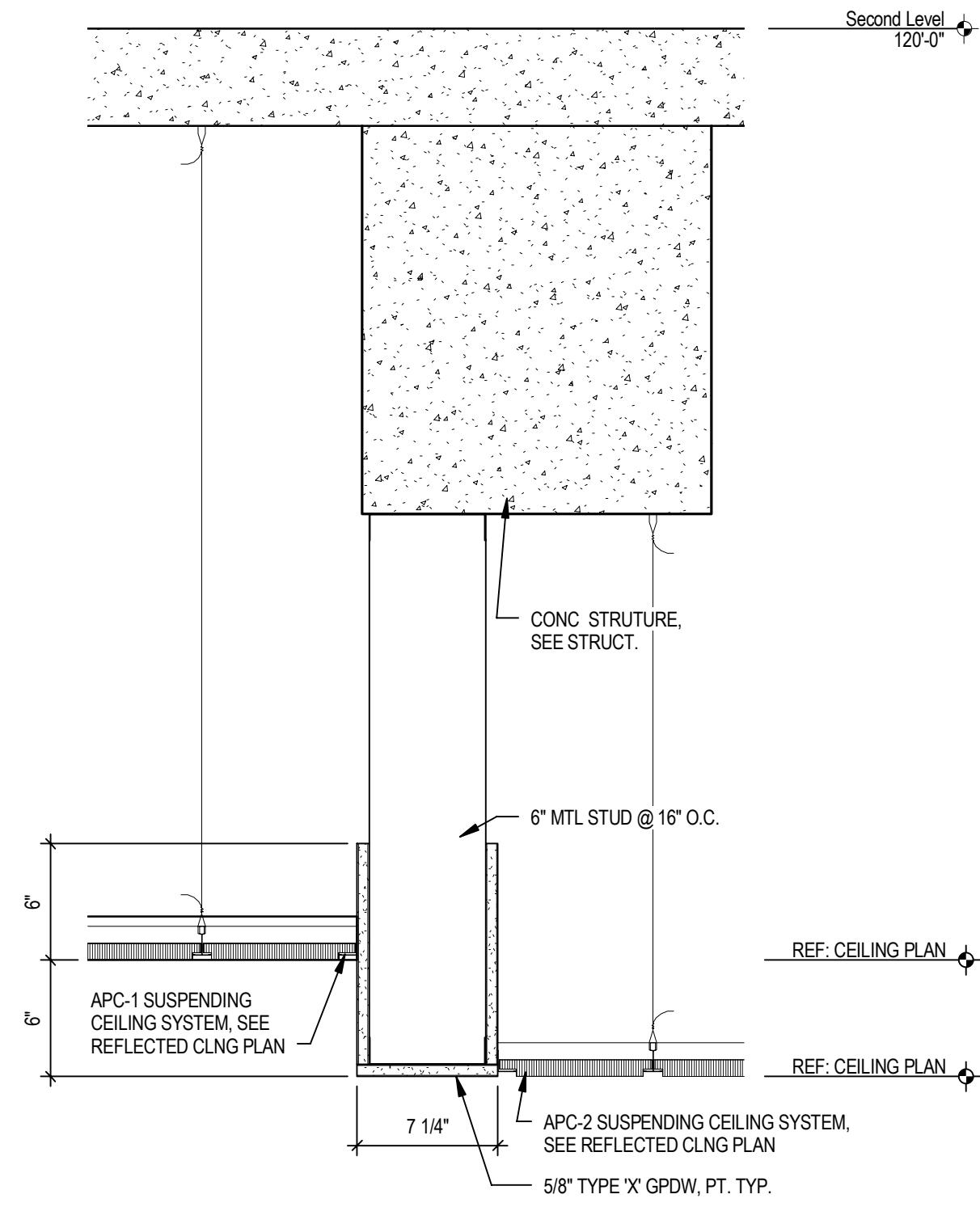
| TAG | DESCRIPTION |
|------|--|
| EJ-1 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS LASB-NBR 2-1 @ FLOOR TO FLOOR RECESS MOUNT W/ FIRE BARRIER OR APPROVED EQUAL |
| EJ-2 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS FSW-200 @ WALL/CEILING CONNECTION OR APPROVED EQUAL |
| EJ-3 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS ERJ-200 @ ROOF TO WALL CONNECTION (EXTERIOR CONDITION) OR APPROVED EQUAL |
| EJ-4 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS ESS-200 @ WALL/CLG. TO WALL CONNECTION (EXTERIOR CONDITION) OR APPROVED EQUAL |
| EJ-5 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS ERJ-200 @ ROOF TO ROOF CONNECTION (EXTERIOR CONDITION) OR APPROVED EQUAL |
| EJ-6 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS FSE-200 @ WALL TO FLOOR RECESS MOUNT W/ FIRE BARRIER OR APPROVED EQUAL |
| EJ-7 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS FSW-200 @ WALL TO WALL CONNECTION OR APPROVED EQUAL |

REFLECTED CEILING LEGEND

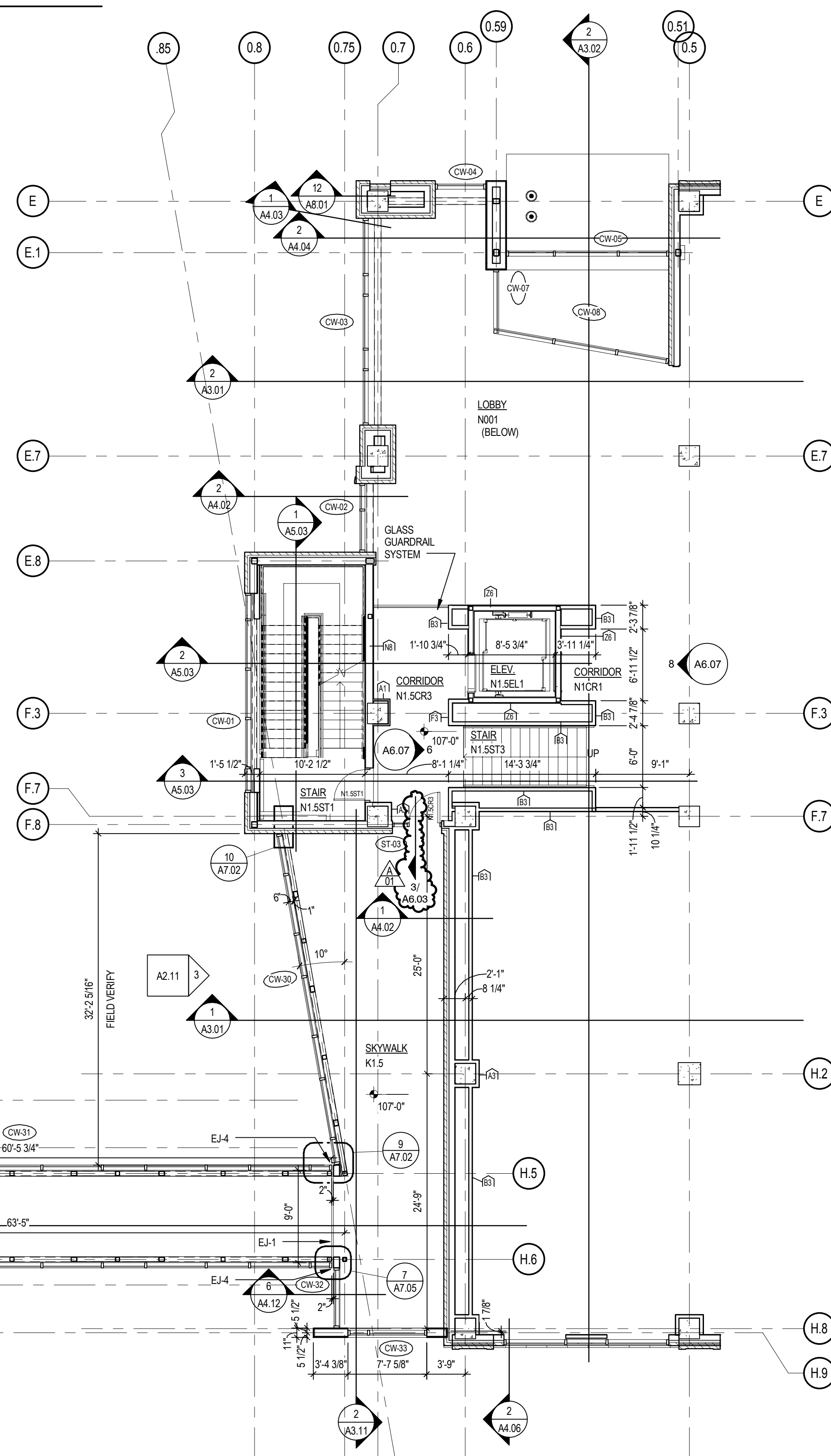
| | | | |
|--|---|--|---|
| | 5/8" SUSPENDED GPDW CEILING SYSTEM | | RECESSED DOWNLIGHT, REF. ELEC. |
| | ACOUSTICAL PANEL CEILING SYSTEM | | EXIT SIGNAGE, REF. ELEC. |
| | 2X2 ACCESS PANEL | | RETURN AIR/EXHAUST AIR GRILLE, REF. MECH. |
| | RECESSED & PENDANT MOUNTED LIGHT FIXTURES, REF. ELEC. | | SUPPLY AIR DIFFUSER, REF. MECH. |



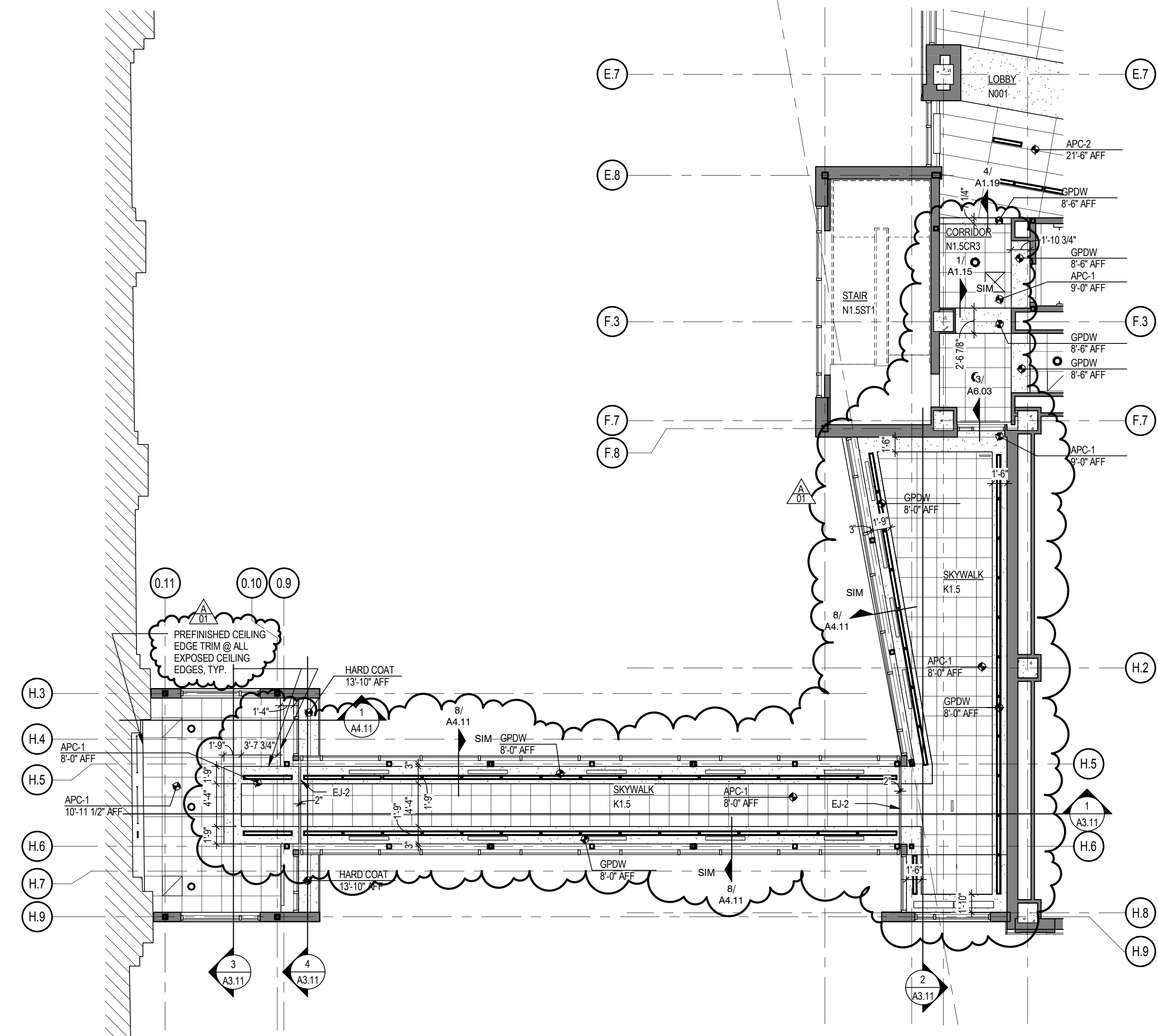
1 ENLARGED PLAN SKYWALK VESTIBULE 4H - LEVEL 1
SCALE: 1/4" = 1'-0"



4 SECTION DETAIL @ BULKHEAD
SCALE: 1 1/2" = 1'-0"

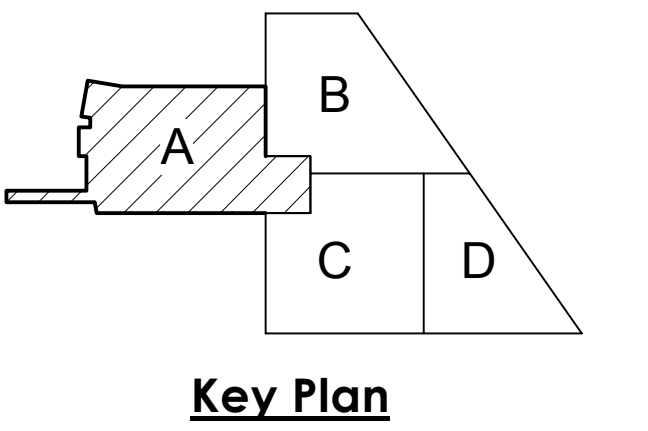


2 SKYWALK FLOOR PLAN
SCALE: 1/8" = 1'-0"



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

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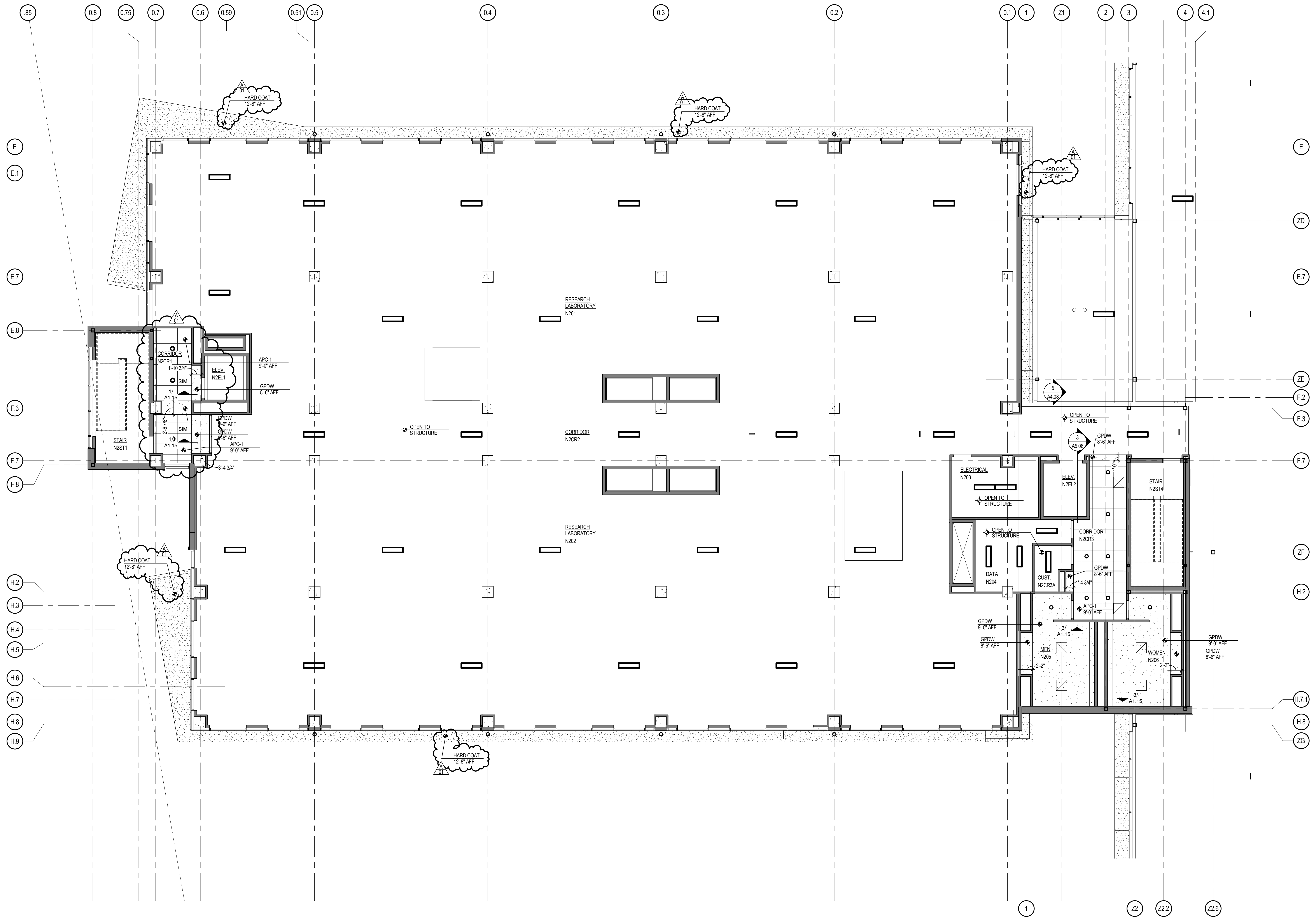


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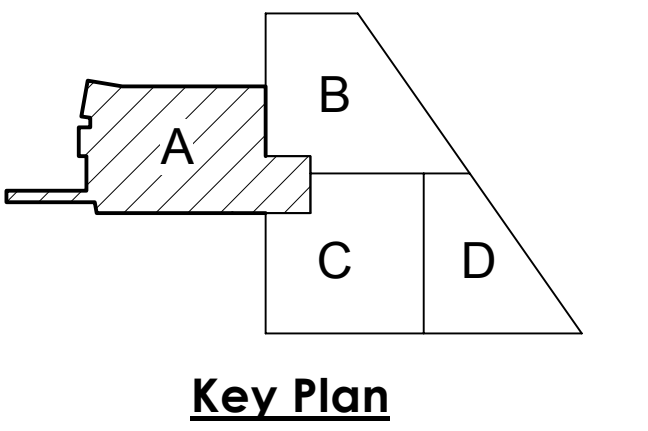
Skywalk Floor Plan &
 Reflected Ceiling Plan -
 Area A

A1.19



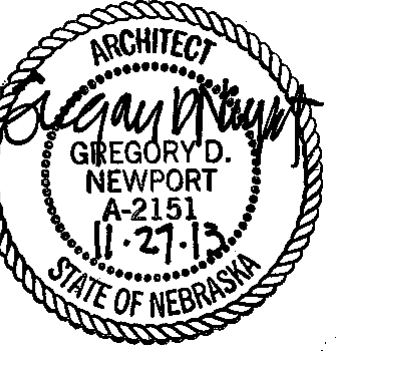
SECOND FLOOR REFLECTED CEILING PLAN - AREA A
 SCALE: 1/8" = 1'-0"

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| REFLECTED CEILING LEGEND | | | |
|--------------------------|---|--|---|
| | 8'8" SUSPENDED GPDW CEILING SYSTEM | | RECESSED DOWNLIGHT, REF. ELEC. |
| | ACOUSTICAL PANEL CEILING SYSTEM | | EXIT SIGNAGE, REF. ELEC. |
| | 2'x2' ACCESS PANEL | | RETURN AIR/EXHAUST AIR GRILLE, REF. MECH. |
| | RECESSED & PENDANT MOUNTED LIGHT FIXTURES, REF. ELEC. | | SUPPLY AIR DIFFUSER, REF. MECH. |

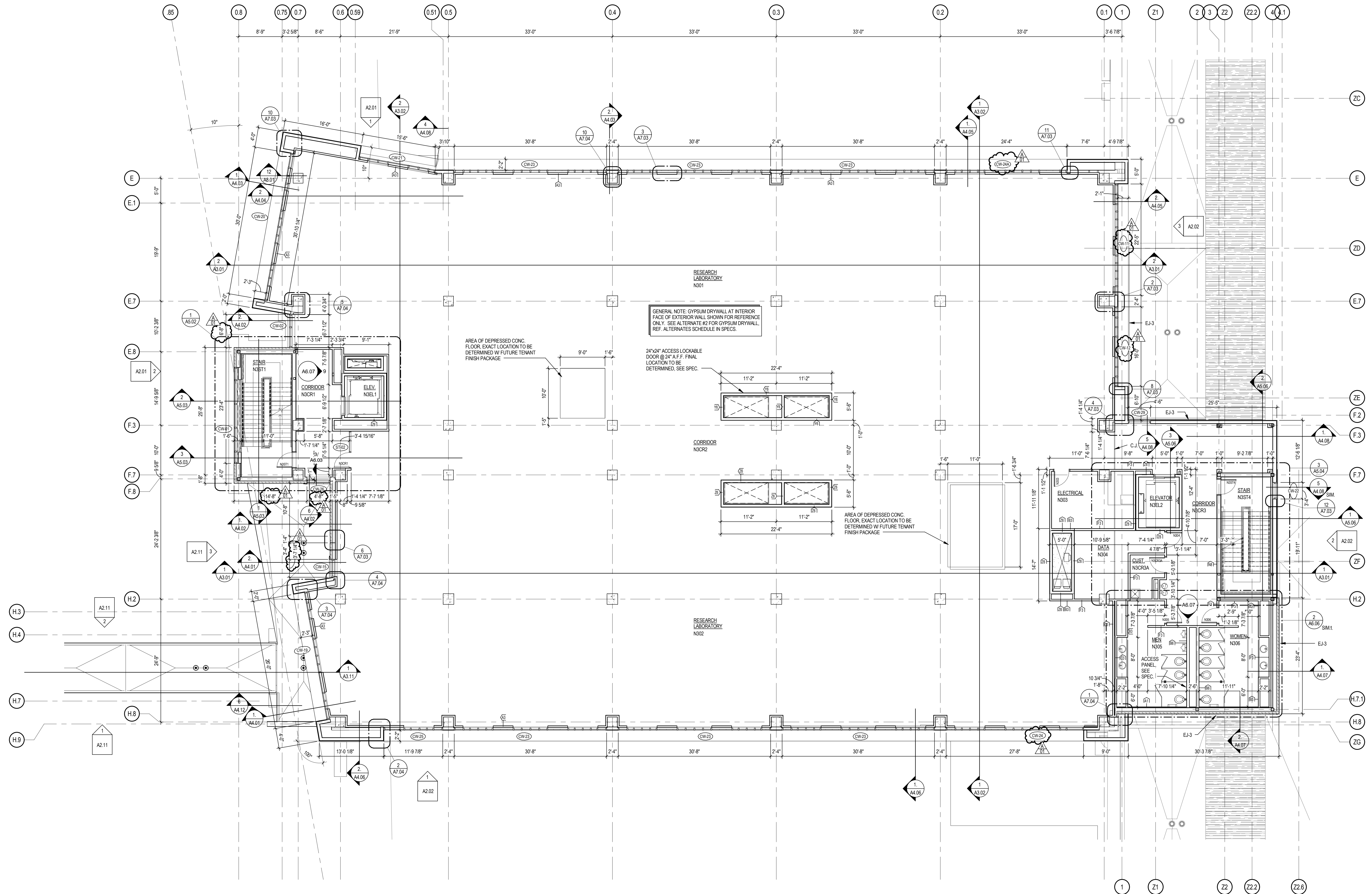


GENERAL PLAN NOTES

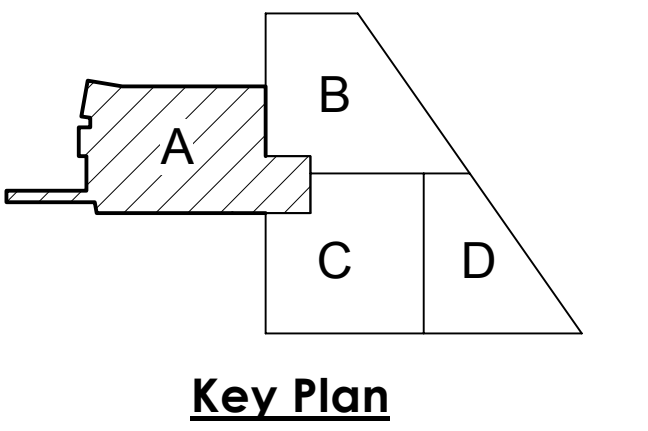
- GENERAL PLAN NOTES APPLY TO ALL FLOOR PLAN SHEETS
- LOWER FLOOR ELEVATION 94'-0" = CIVIL GRADE ELEVATION 1155.83
 FIRST FLOOR ELEVATION 100'-0" = CIVIL GRADE ELEVATION 1161.83
- ALL SPANDREL GLAZING SHALL HAVE CURTAINWALL INSULATION INSET IN FRAME AND METAL STUD AND GPDW WALLS WITH THERMAL BATT INSUL AT INTERIOR SIDE OF GLAZING. REF.: TYP. SPANDREL DETAIL.
- SEE SHEET A1.00 FOR WALL TYPE SCHEDULE
- DIMENSIONS ARE TO FACE OF GYPSUM DRYWALL UNLESS OTHERWISE NOTED
- REF.: A6.01 FOR INTERIOR HM FRAME TYPES.
 REF.: A6.02 & A6.03 FOR STOREFRONT & CURTAINWALL FRAME TYPES.
 REF.: A6.04 FOR SKYWALK CURTAINWALL FRAME TYPES

EXPANSION JOINT SCHEDULE

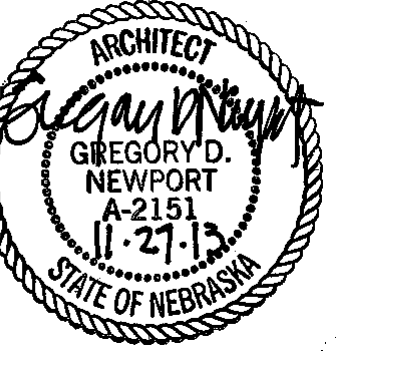
| TAG | DESCRIPTION |
|------|--|
| EJ-1 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS LASB-NBR 2-1 @ FLOOR TO FLOOR RECESS MOUNT W/ FIRE BARRIER OR APPROVED EQUAL |
| EJ-2 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS FSW-200 @ WALL/CEILING TO WALL/CEILING CONNECTION OR APPROVED EQUAL |
| EJ-3 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS ERU-200 @ ROOF TO WALL CONNECTION (EXTERIOR CONDITION) OR APPROVED EQUAL |
| EJ-4 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS ESS-200 @ WALL/CLG. TO WALL CONNECTION (EXTERIOR CONDITION) OR APPROVED EQUAL |
| EJ-5 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS ERU-200 @ ROOF TO ROOF CONNECTION (EXTERIOR CONDITION) OR APPROVED EQUAL |
| EJ-6 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS FSE-200 @ WALL TO FLOOR RECESS MOUNT W/ FIRE BARRIER OR APPROVED EQUAL |
| EJ-7 | 2" EXPANSION JOINT COVER EQUAL TO MM SYSTEMS FSWL-200 @ WALL TO WALL CONNECTION OR APPROVED EQUAL |



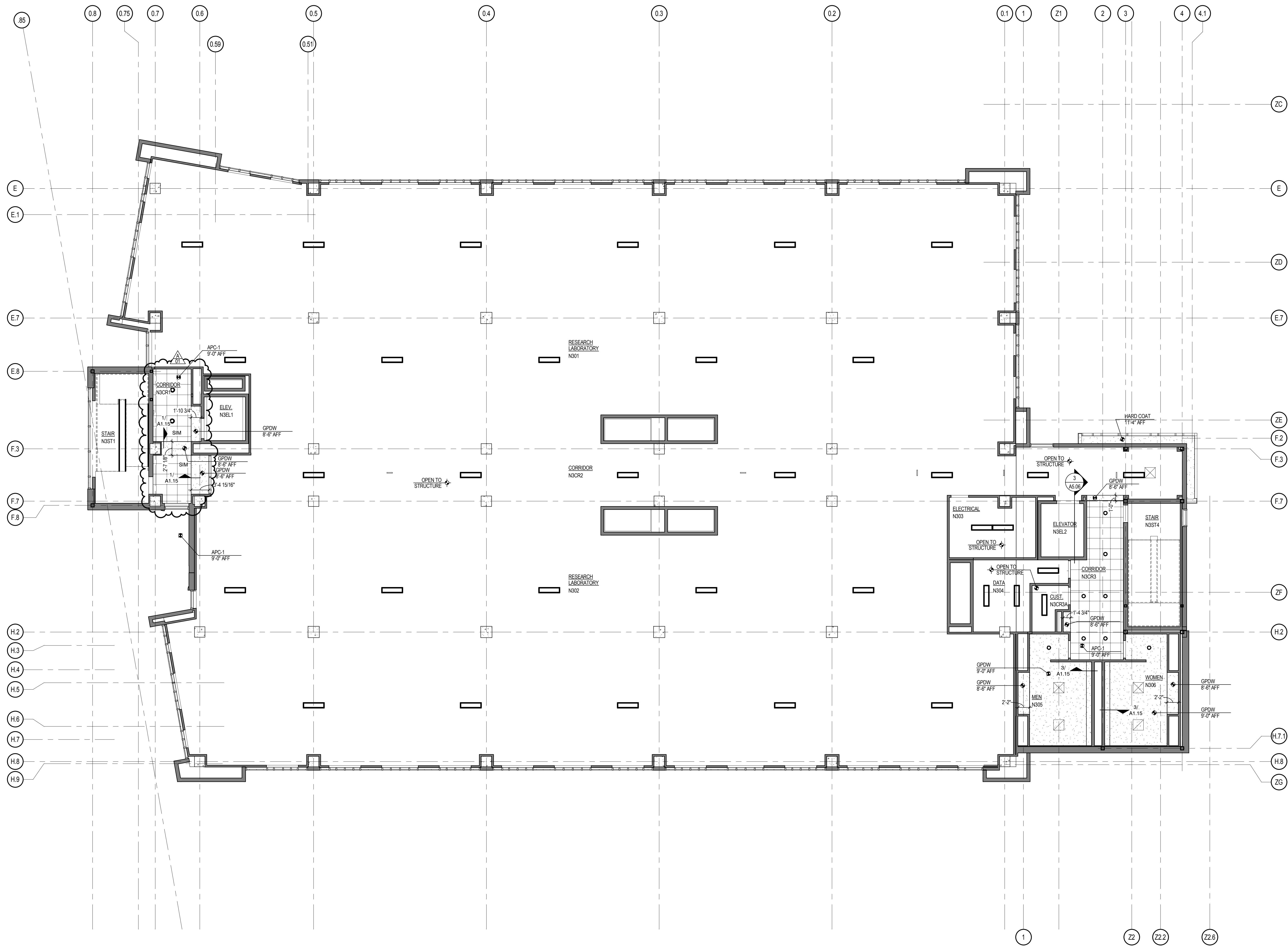
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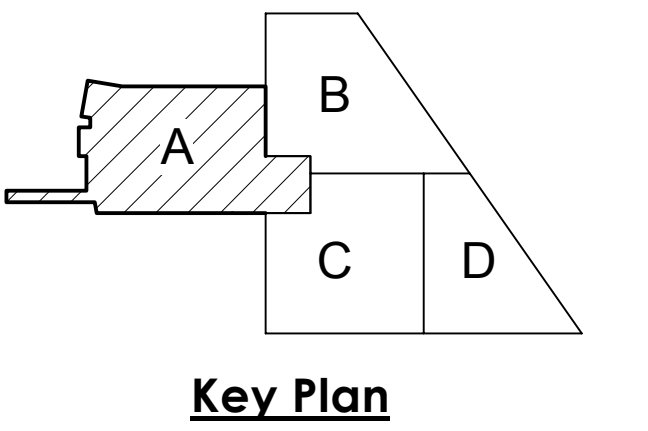
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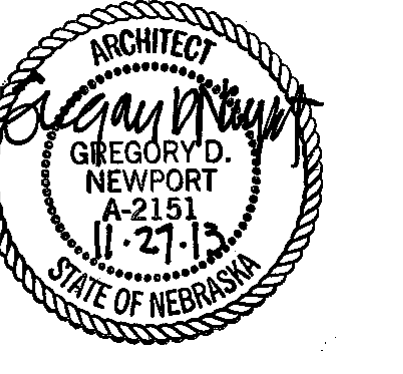


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THIRD FLOOR REFLECTED CEILING PLAN - AREA A
 SCALE: 1/8" = 1'-0"

| REFLECTED CEILING LEGEND | | | |
|--------------------------|---|--|---|
| | 5/8" SUSPENDED GPDW CEILING SYSTEM | | RECESSED DOWNLIGHT, REF. ELEC. |
| | ACOUSTICAL PANEL CEILING SYSTEM | | EXIT SIGNAGE, REF. ELEC. |
| | 2X2 ACCESS PANEL | | RETURN AIR EXHAUST AIR GRILLE, REF. MECH. |
| | RECESSED & PENDANT MOUNTED LIGHT FIXTURES, REF. ELEC. | | SUPPLY AIR DIFFUSER, REF. MECH. |



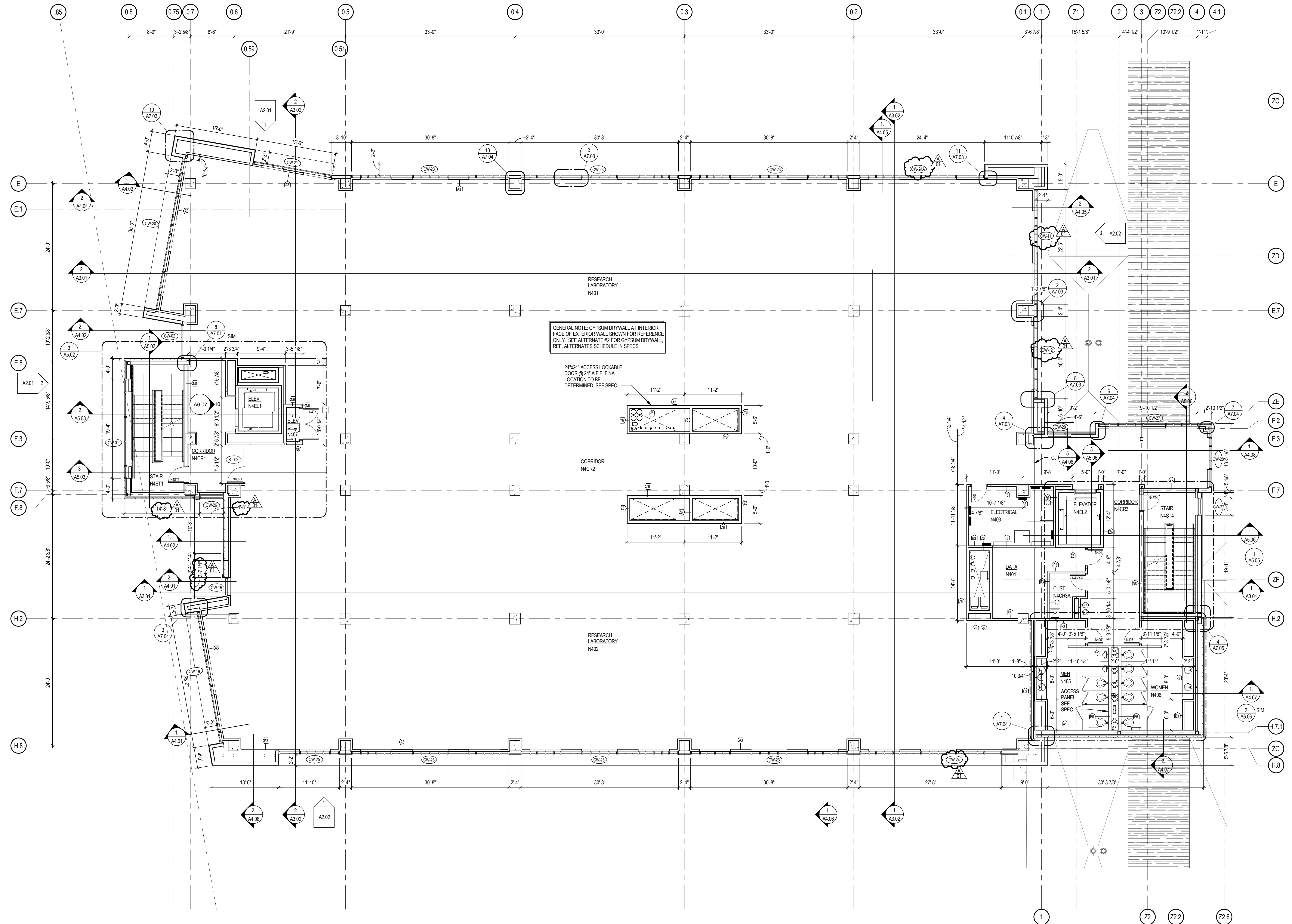
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Third Floor Reflected Ceiling Plan - Area A

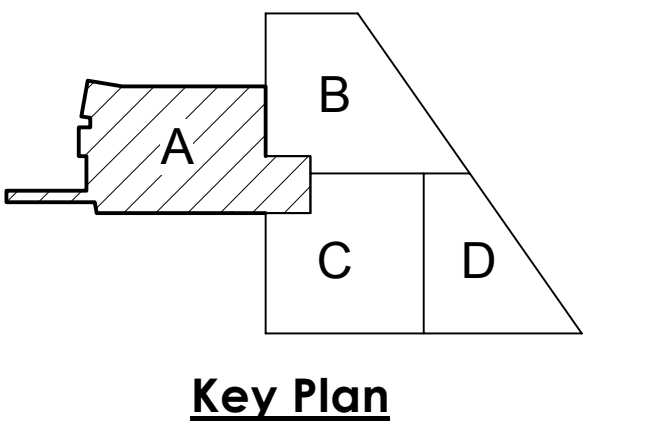
A1.32

GENERAL PLAN NOTES

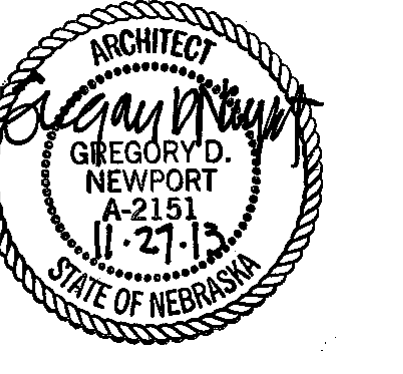
1. GENERAL PLAN NOTES APPLY TO ALL FLOOR PLAN SHEETS
2. LOWER FLOOR ELEVATION 94'-0" = CIVIL GRADE ELEVATION 1155.83
 FIRST FLOOR ELEVATION 100'-0" = CIVIL GRADE ELEVATION 1161.83
3. ALL SPANDREL GLAZING SHALL HAVE CURTAINWALL INSULATION INSET IN FRAME AND METAL STUD AND GPDW WALLS WITH THERMAL BATT INSUL. AT INTERIOR SIDE OF GLAZING. REF.: TYP. SPANDREL DETAIL.
4. SEE SHEET A1.00 FOR WALL TYPE SCHEDULE
5. DIMENSIONS ARE TO FACE OF GYPSUM DRYWALL UNLESS OTHERWISE NOTED
6. REF.: A6.01 FOR INTERIOR HM FRAME TYPES.
 REF.: A6.02 & A6.03 FOR STOREFRONT & CURTAINWALL FRAME TYPES.
 REF.: A6.04 FOR SKYWALK CURTAINWALL FRAME TYPES



SHEET HISTORY:
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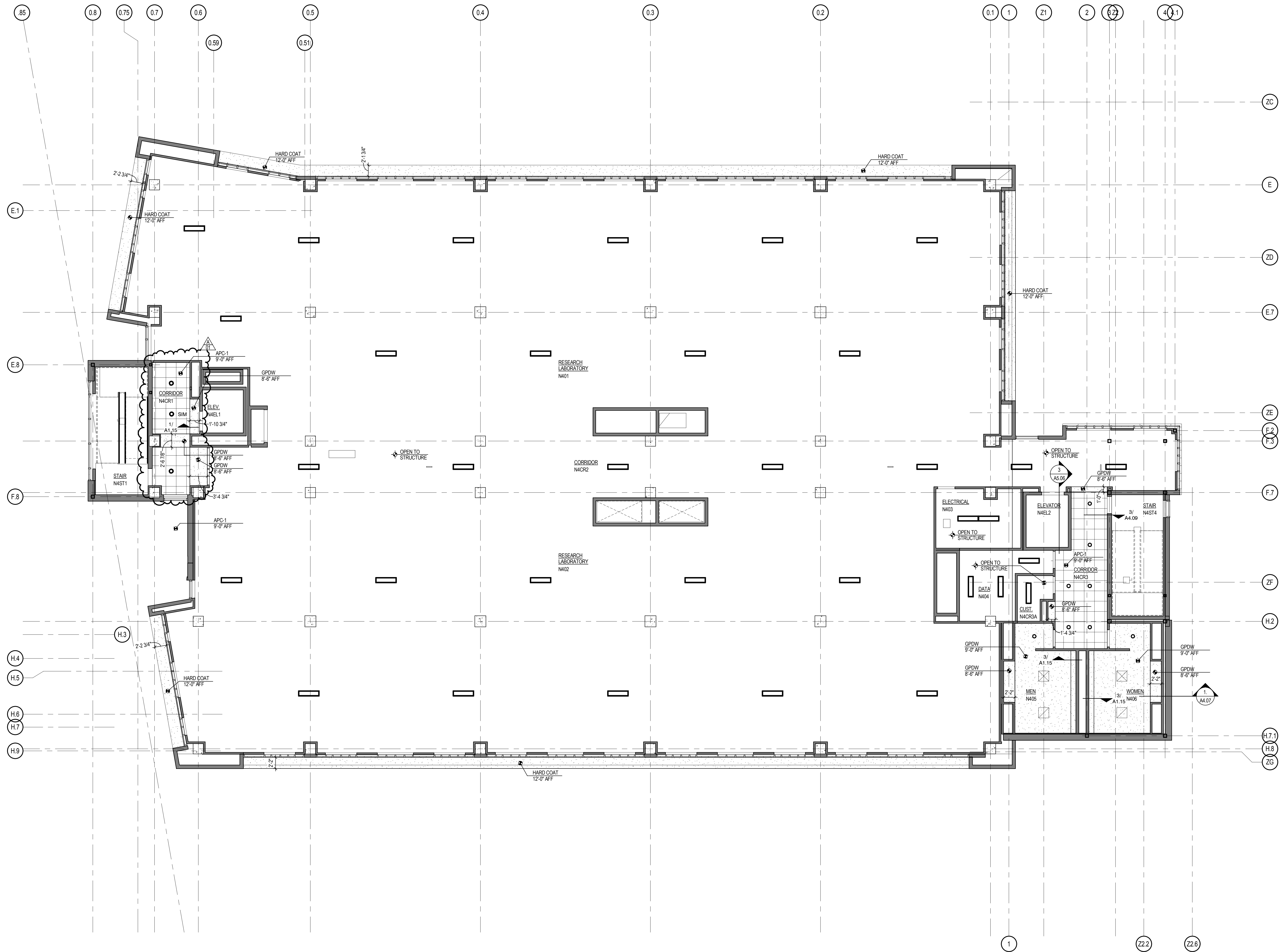


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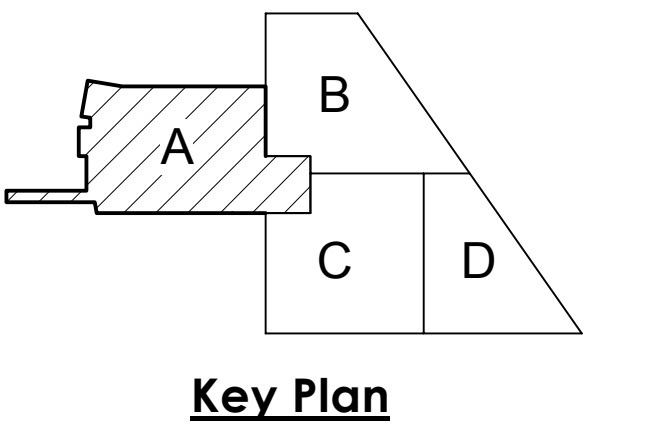


FOURTH FLOOR PLAN - AREA A
 SCALE: 1/8" = 1'-0"

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FOURTH FLOOR REFLECTED CEILING PLAN - AREA A
 SCALE: 1/8" = 1'-0"

| REFLECTED CEILING LEGEND | |
|---|---|
| 5/8" SUSPENDED GPOW CEILING SYSTEM | RECESSED DOWNLIGHT, REF. ELEC. |
| ACOUSTICAL PANEL CEILING SYSTEM | EXIT SIGNAGE, REF. ELEC. |
| 2X2 ACCESS PANEL | RETURN AIR EXHAUST AIR GRILLE, REF. MECH. |
| RECESSED & PENDANT MOUNTED LIGHT FIXTURES, REF. ELEC. | SUPPLY AIR DIFFUSER, REF. MECH. |

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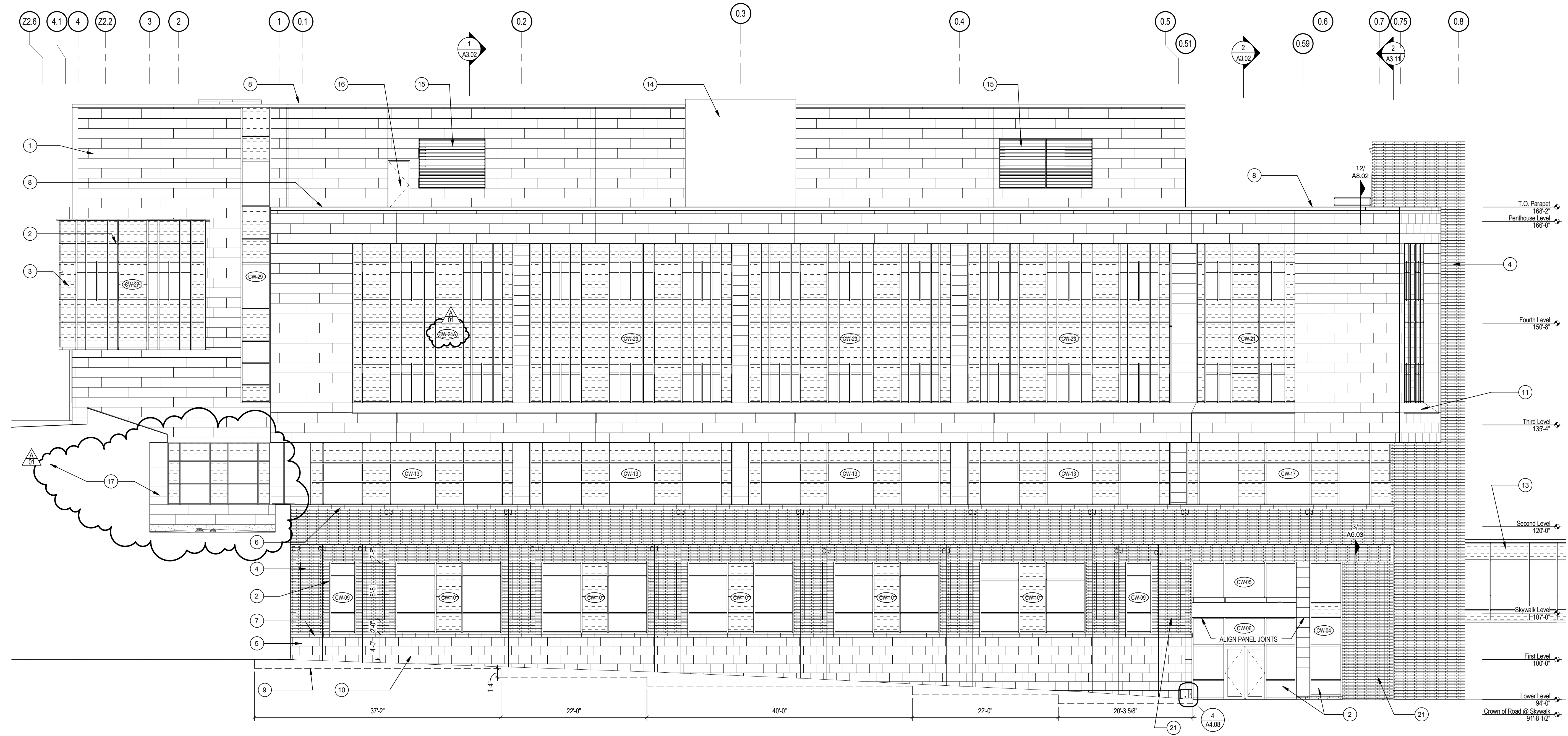


Fourth Floor Reflected Ceiling Plan - Area A

A1.42

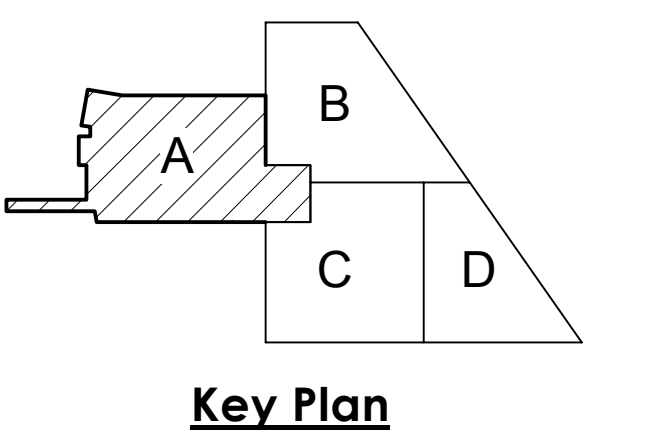
KEY NOTES - ELEVATION

- 1 CEMENT FIBER BOARD
- 2 CURTAIN WALL, TYP.
- 3 SPANDREL GLASS, TYP.
- 4 FACE BRICK
- 5 3.5" CAST STONE
- 6 CAST STONE SILL, TYPE "A"
- 7 CAST STONE SILL, TYPE "B"
- 8 PRE-FINISHED METAL COPING, TYP.
- 9 BRICK LEDGE, TYP.
- 10 SS DRIP, TYP.
- 11 PRE-FINISHED METAL FLASHING
- 12 EXISTING BUILDING, BEYOND
- 13 SKYWALK
- 14 MECH. EQUIP. REF. MECH.
- 15 MECHANICAL LOUVER, REF. MECH.
- 16 HM DOOR, REF. DOOR SCHED.
- 17 ADDITION TO EXISTING BUILDING, BEYOND
- 18 PREP. EXISTING WALL FOR INSTALLATION OF NEW EXPANSION JOINT
- 19 CAST STONE TRIM
- 20 CONDUCTOR HEAD & DOWNSPOUT
- 21 RECESSED BAND OF FACE BRICK
- 22 GUARDRAIL
- 23 PRE-FINISHED GRAVEL STOP
- 24 HARD COAT CEILING & SOFFIT SYSTEM

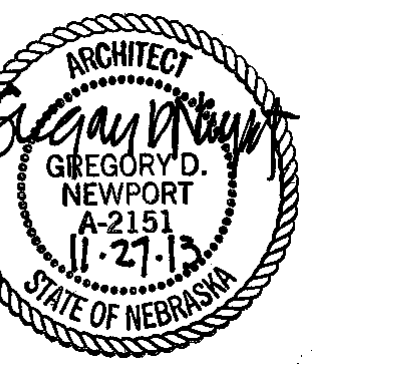


1 EAST ELEVATION - NORTH BUILDING
SCALE: 1/8" = 1'-0"

SHEET HISTORY:
ISSUED 11/27/2013 AS PER CONSTRUCTION DOCUMENTS
A - 01 12/11/2013 ADDENDUM #1



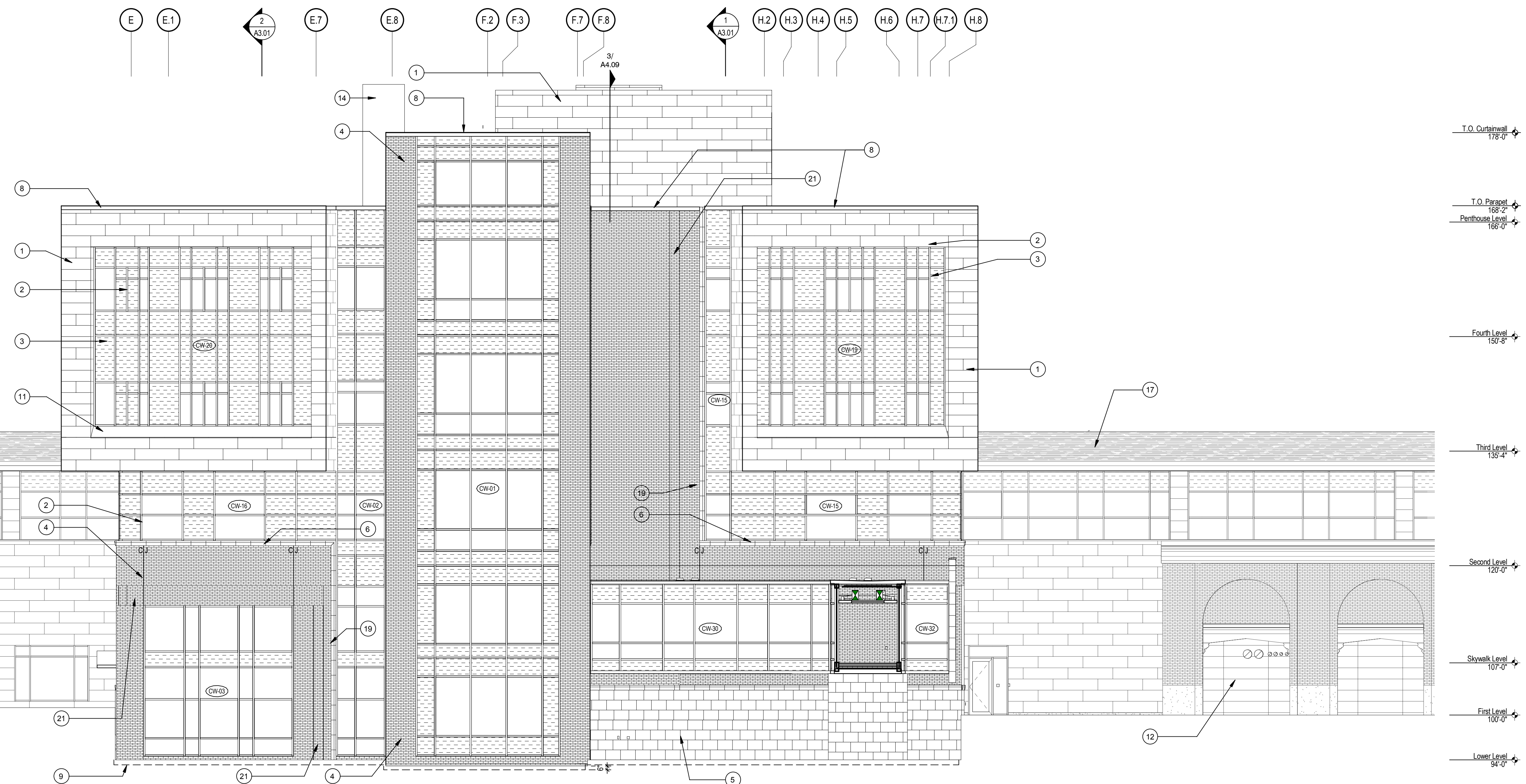
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Exterior Building Elevations
- Area A

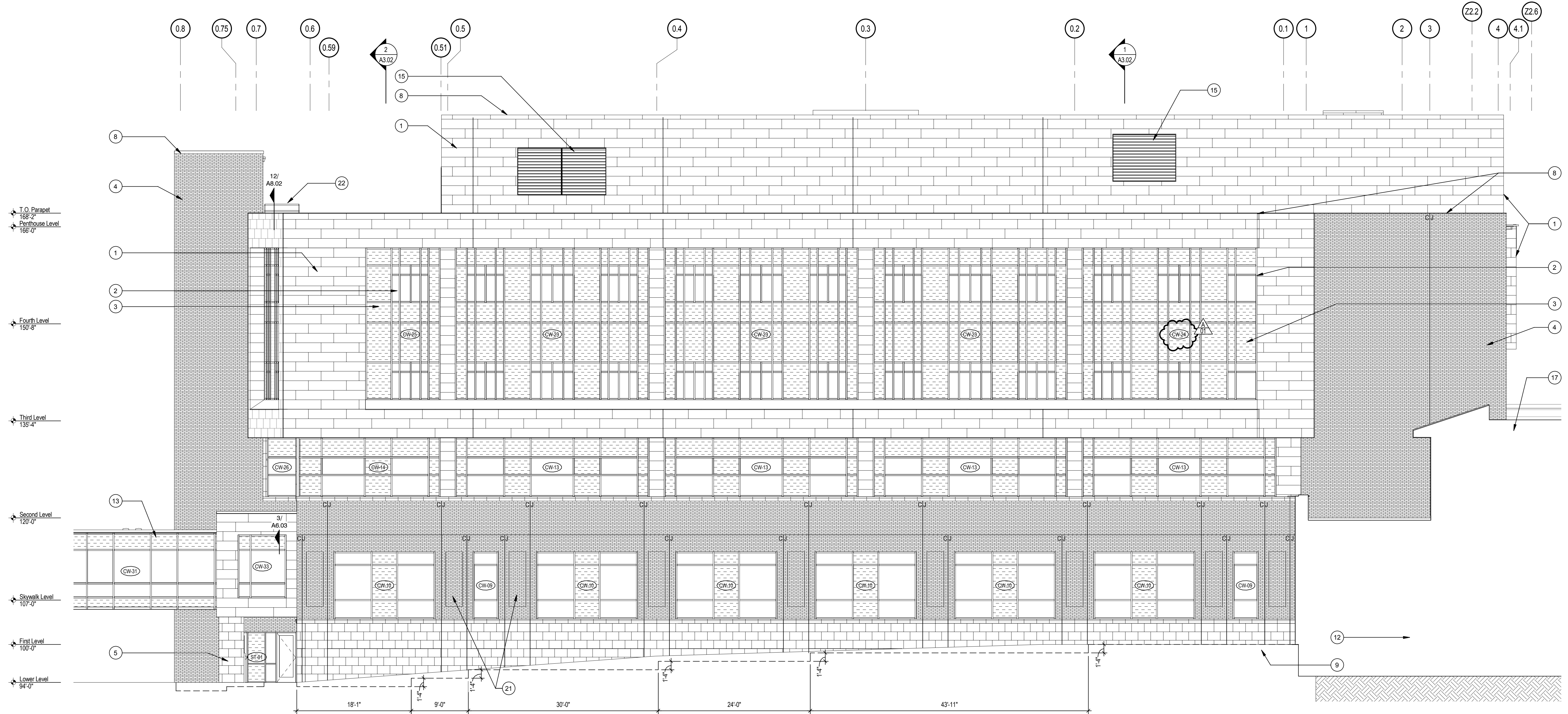
A2.01

2 NORTH ELEVATION - NORTH BUILDING
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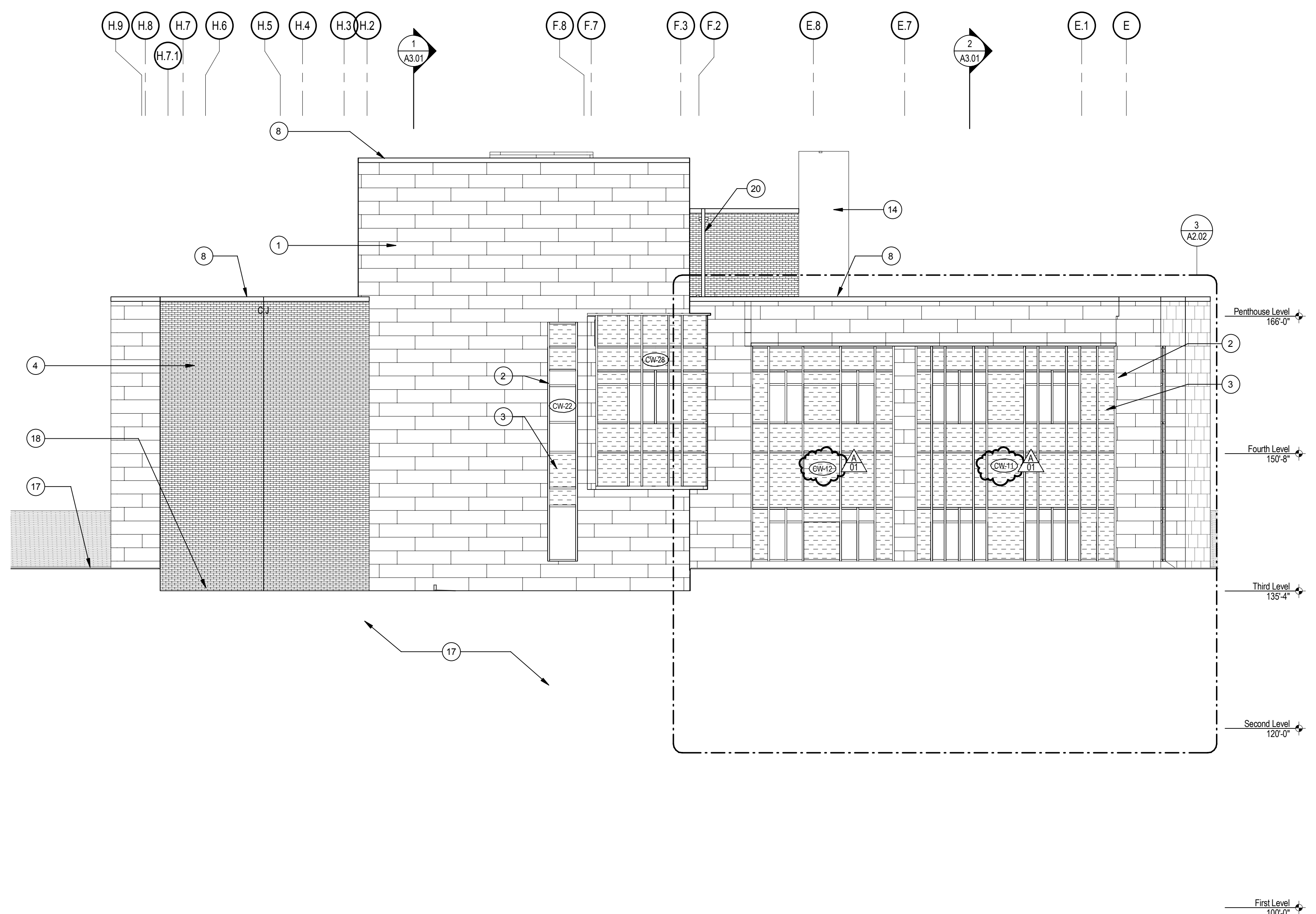


KEY NOTES - ELEVATION

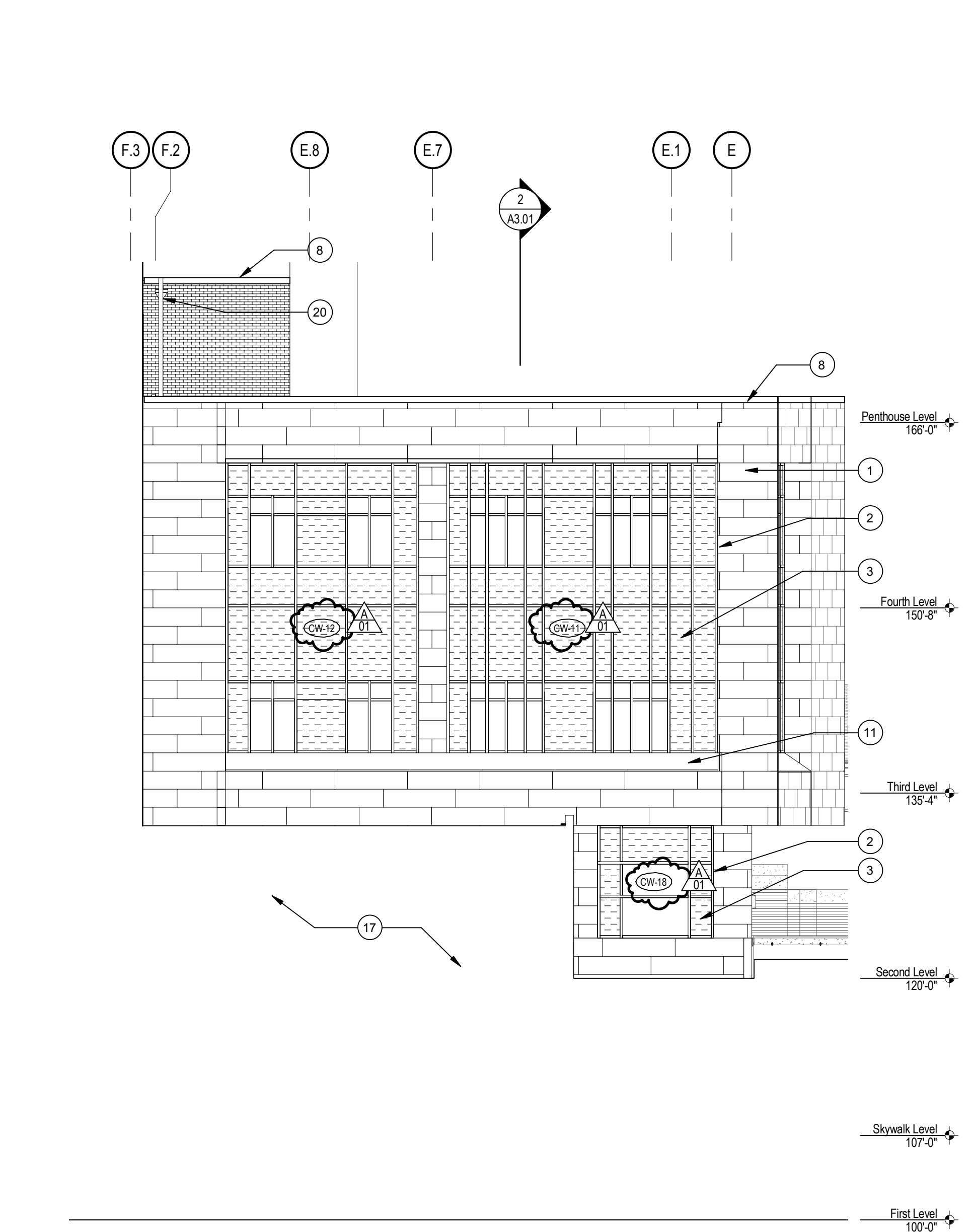
| | |
|----|---|
| 1 | CEMENT FIBER BOARD |
| 2 | CURTAIN WALL, TYP. |
| 3 | SPANDREL GLASS, TYP. |
| 4 | FACE BRICK |
| 5 | 3/8" CAST STONE |
| 6 | CAST STONE SILL, TYPE "A" |
| 7 | CAST STONE SILL, TYPE "B" |
| 8 | PRE-FINISHED METAL COPING, TYP. |
| 9 | BRICK LEDGE, TYP. |
| 10 | SS DRIP, TYP. |
| 11 | PRE-FINISHED METAL FLASHING |
| 12 | EXISTING BUILDING, BEYOND |
| 13 | SKYWALK |
| 14 | MECH. EQUIP. REF. MECH. |
| 15 | MECHANICAL LOUVER, REF. MECH. |
| 16 | HM DOOR, REF. DOOR SCHED. |
| 17 | ADDITION TO EXISTING BUILDING, BEYOND |
| 18 | PREP. EXISTING WALL FOR INSTALLATION OF NEW EXPANSION JOINT |
| 19 | CAST STONE TRIM |
| 20 | CONDUCTOR HEAD & DOWNSPOUT |
| 21 | RECESSED BAND OF FACE BRICK |
| 22 | GUARDRAIL |
| 23 | PRE-FINISHED GRAVEL STOP |
| 24 | HARD COAT CEILING & SOFFIT SYSTEM |



1 WEST ELEVATION - NORTH BUILDING
 SCALE: 1/8" = 1'-0"

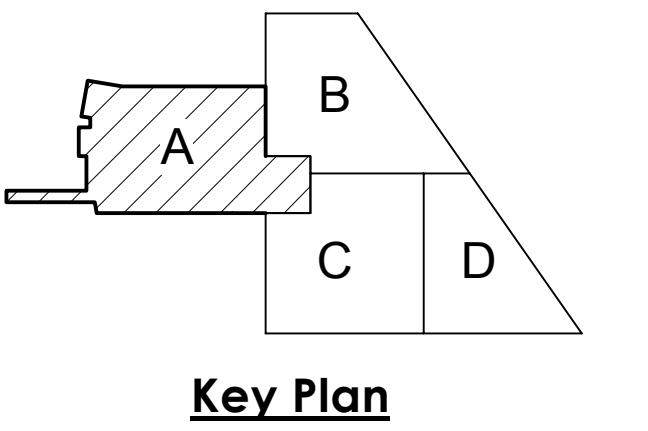


2 SOUTH ELEVATION - NORTH BUILDING
 SCALE: 1/8" = 1'-0"

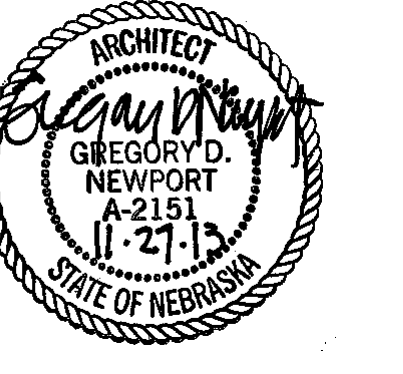


3 PARTIAL SOUTH ELEVATION - NORTH BUILDING
 SCALE: 1/8" = 1'-0"

SHEET HISTORY:
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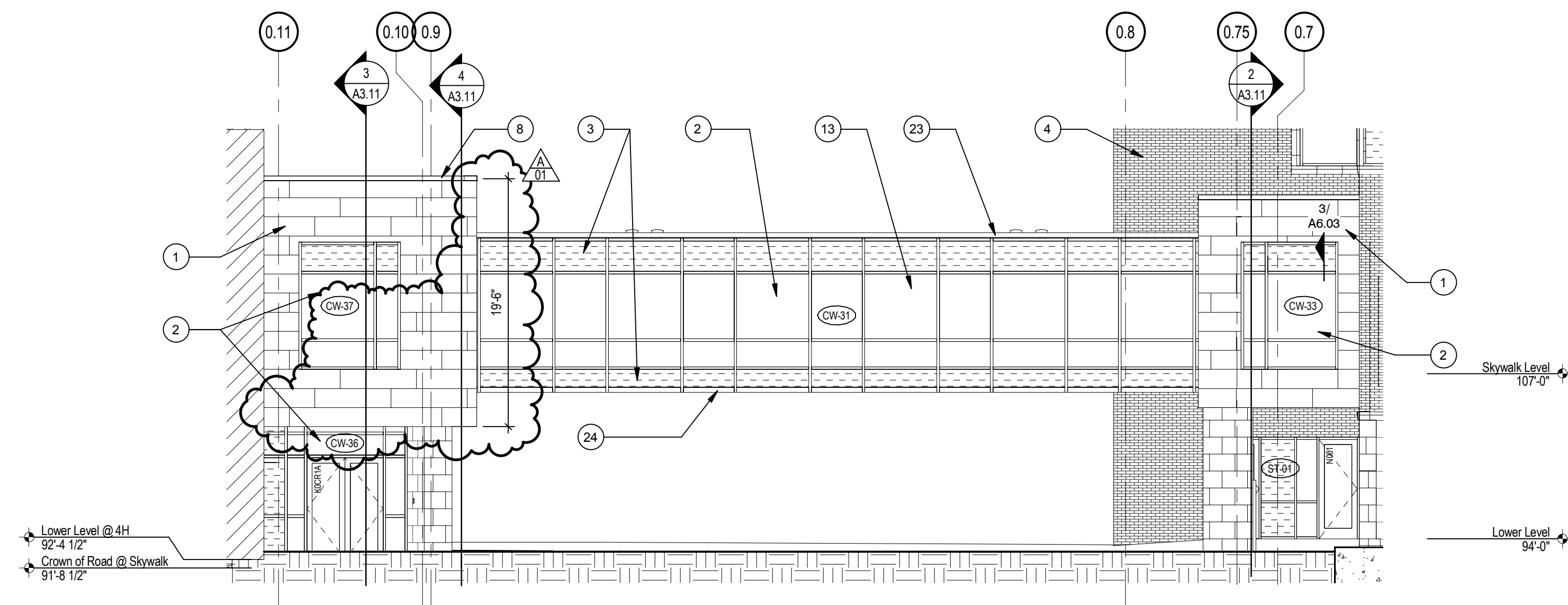


Exterior Building Elevations
 - Area A

A2.02

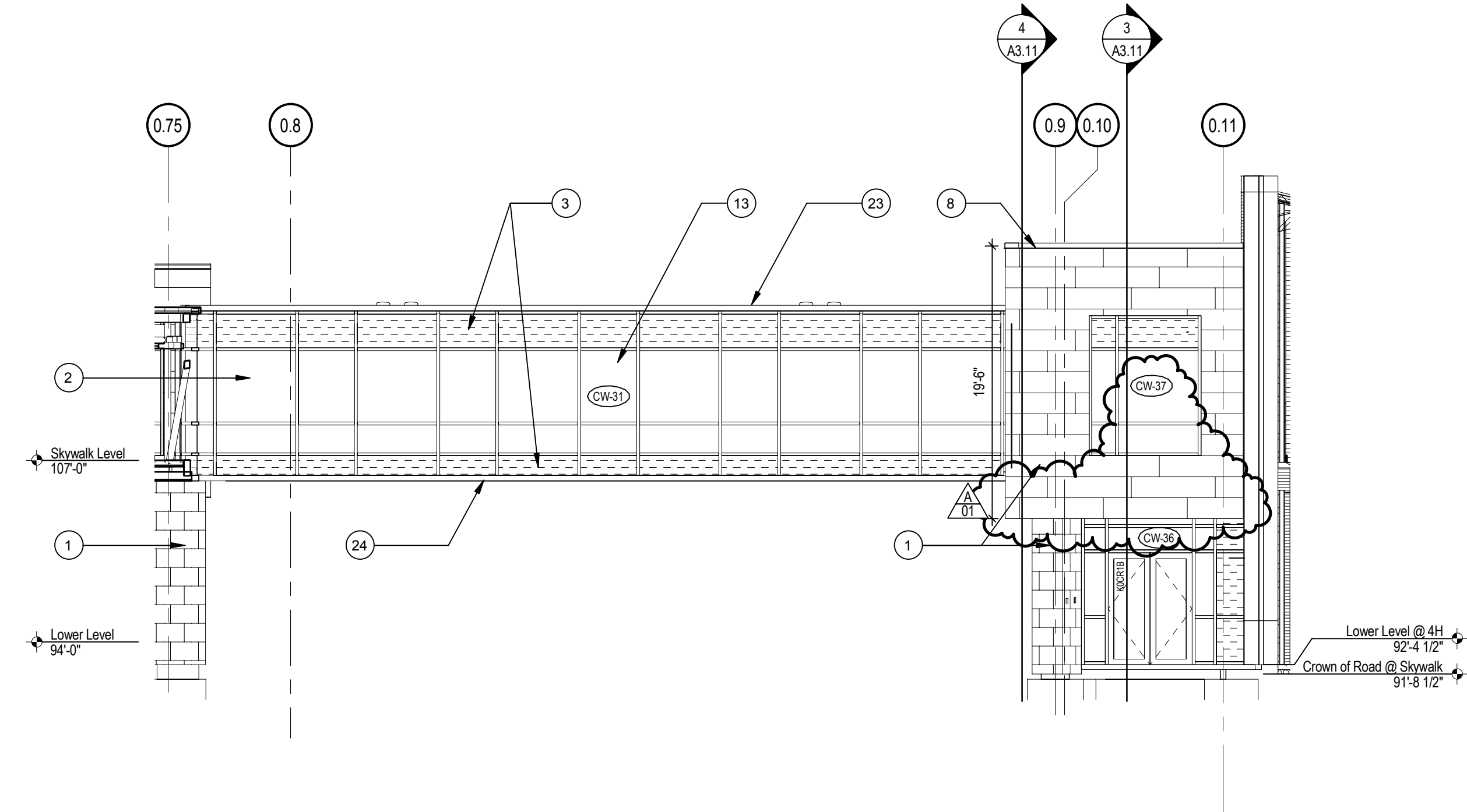
KEY NOTES - ELEVATION

| | |
|----|---|
| 1 | CEMENT FIBER BOARD |
| 2 | CURTAIN WALL, TYP. |
| 3 | SPANDREL GLASS, TYP. |
| 4 | FACE BRICK |
| 5 | 3 5/8" CAST STONE |
| 6 | CAST STONE SILL, TYPE "A" |
| 7 | CAST STONE SILL, TYPE "B" |
| 8 | PRE-FINISHED METAL COPING, TYP. |
| 9 | BRICK LEDGE, TYP. |
| 10 | SS DRIP, TYP. |
| 11 | PRE-FINISHED METAL FLASHING |
| 12 | EXISTING BUILDING, BEYOND |
| 13 | SKYWALK |
| 14 | MECH. EQUIP, REF: MECH. |
| 15 | MECHANICAL LOUVER, REF: MECH. |
| 16 | HM DOOR, REF: DOOR SCHED. |
| 17 | ADDITION TO EXISTING BUILDING, BEYOND |
| 18 | PREP. EXISTING WALL FOR INSTALLATION OF NEW EXPANSION JOINT |
| 19 | CAST STONE TRIM |
| 20 | CONDUCTOR HEAD & DOWNSPOUT |
| 21 | RECESSED BAND OF FACE BRICK |
| 22 | GUARDRAIL |
| 23 | PRE-FINISHED GRAVEL STOP |
| 24 | HARD COAT CEILING & SOFFIT SYSTEM |



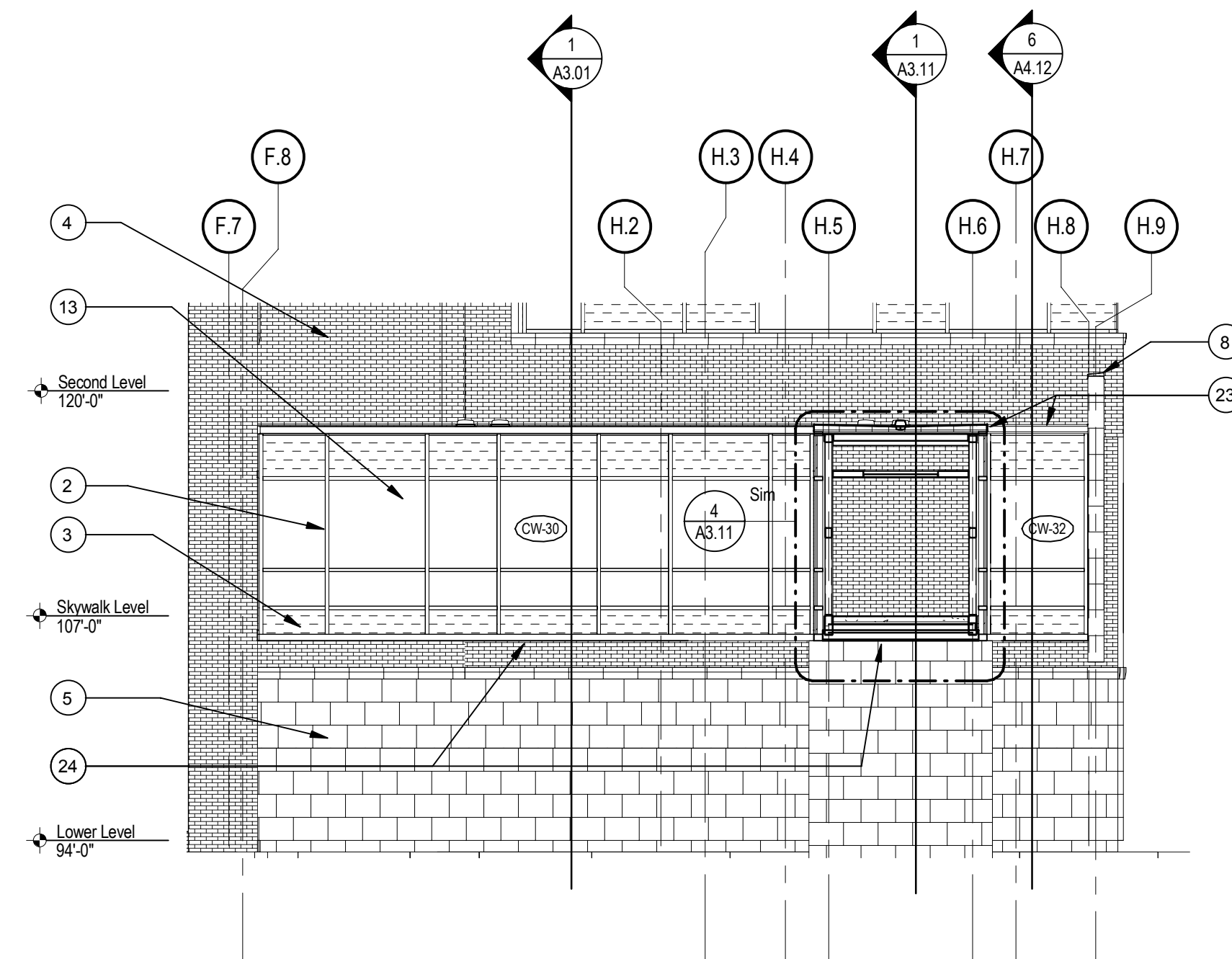
1 SKYWALK EXTERIOR ELEVATION - WEST

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



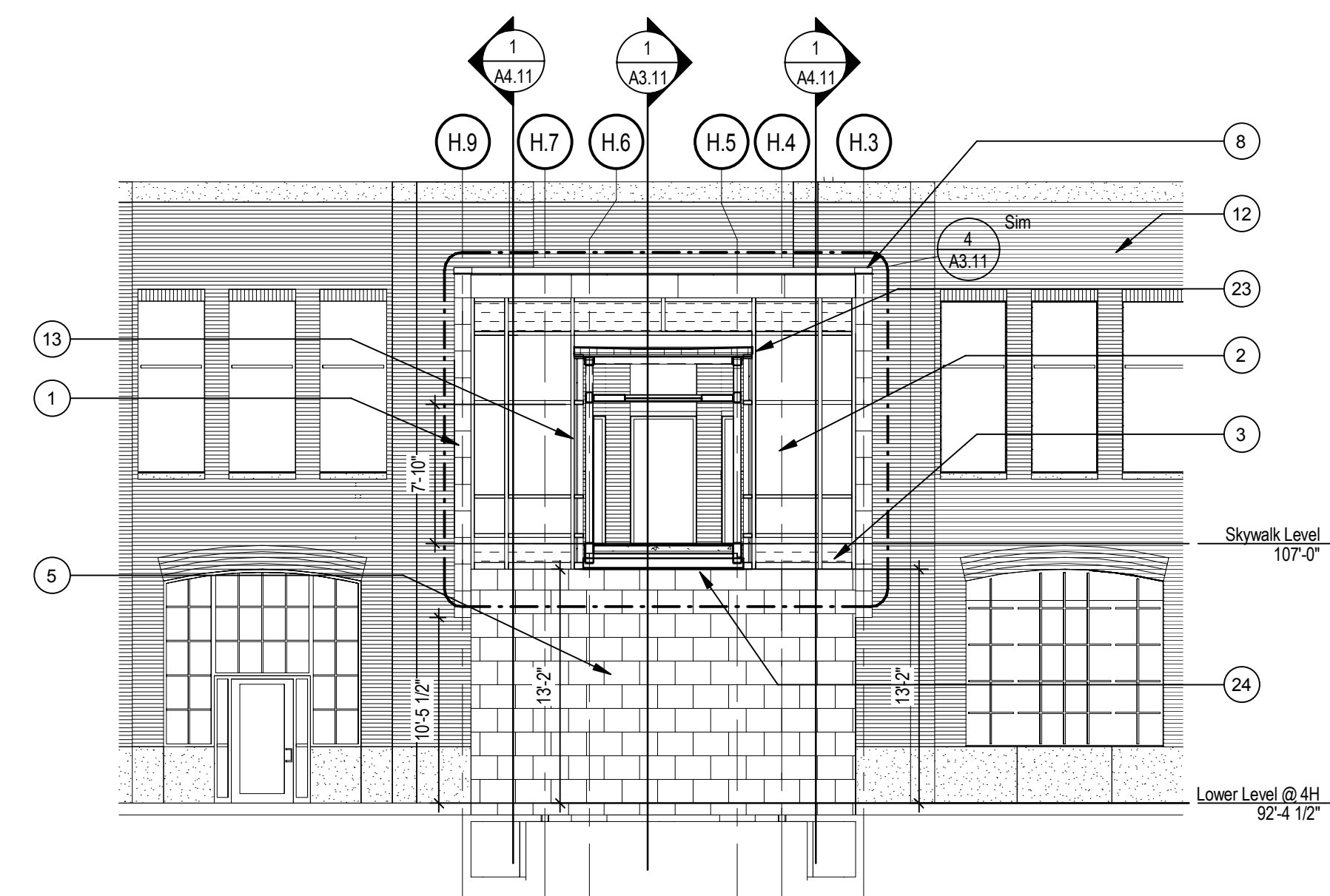
2 SKYWALK EXTERIOR ELEVATION - EAST

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



3 SKYWALK EXTERIOR ELEVATION - NORTH

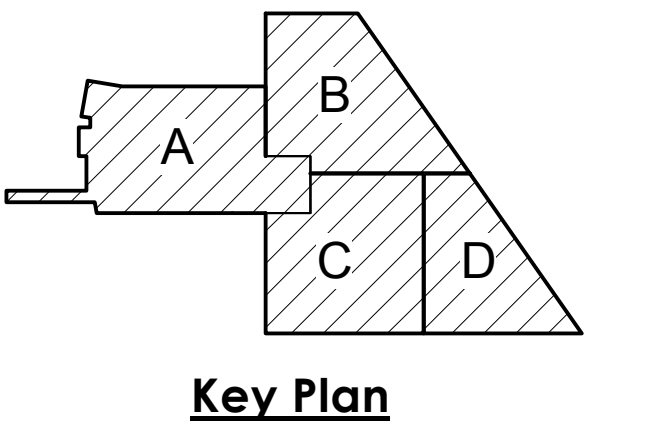
SCALE: 1/8" = 1'-0"



4 SKYWALK EXTERIOR ELEVATION - SOUTH

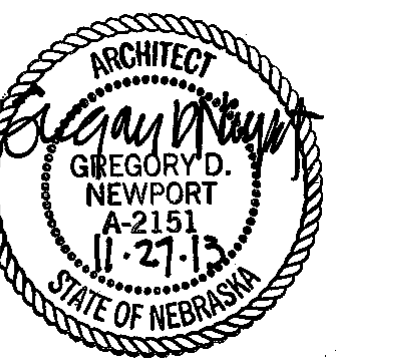
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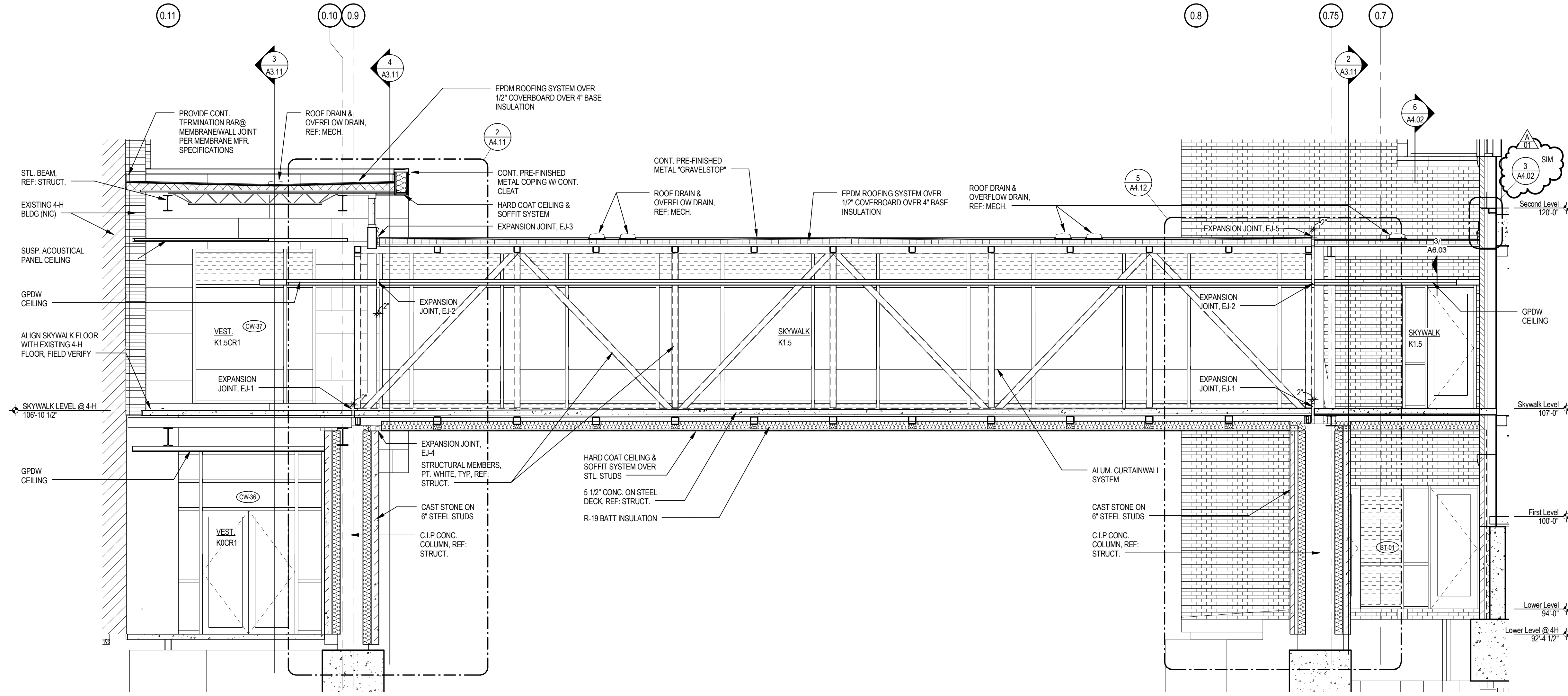
Life Science Collaboration

1910 N Antelope Valley Parkway
 Lincoln, Nebraska
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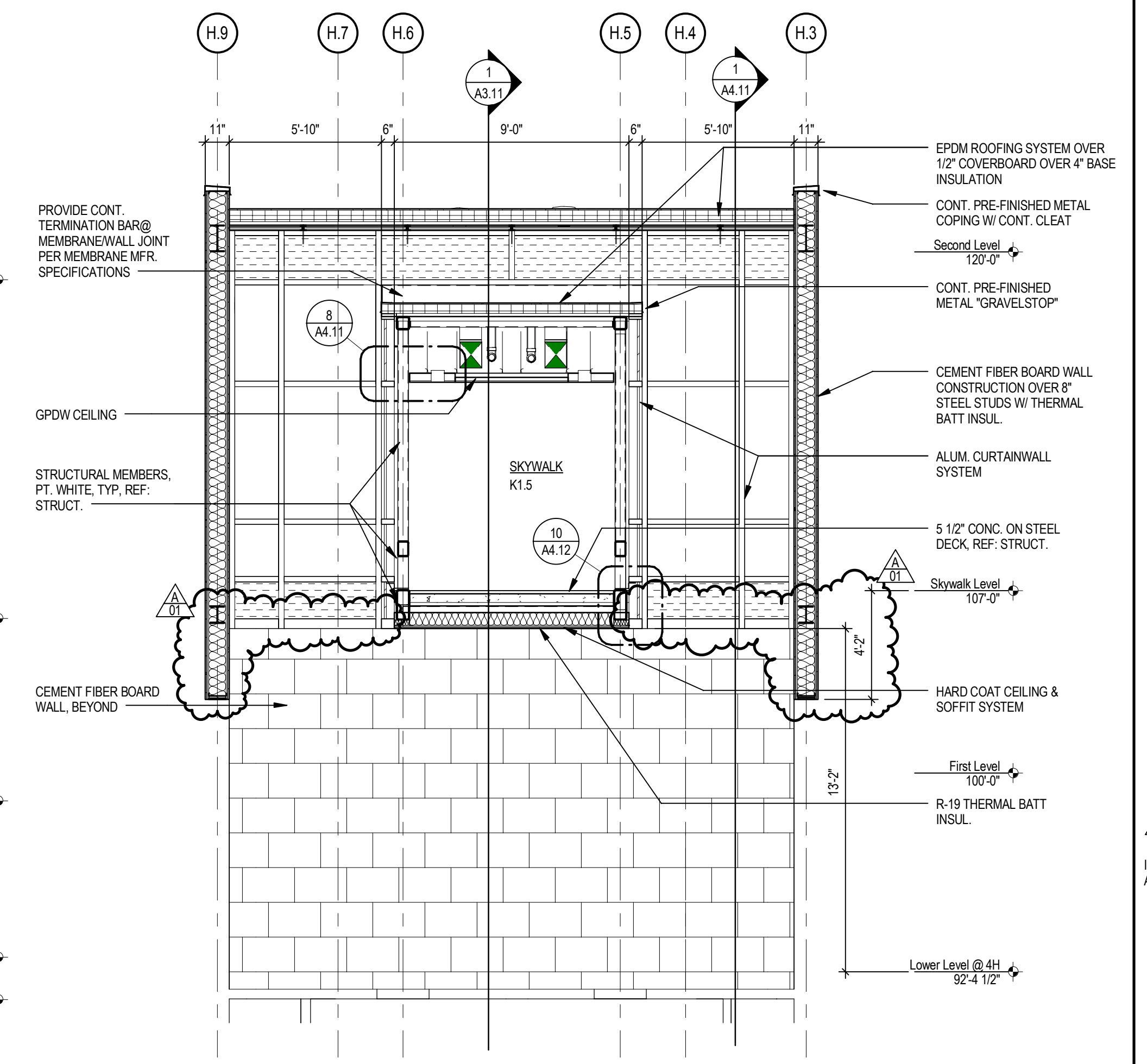
Skywalk Exterior Building Elevations - Area A

A2.11



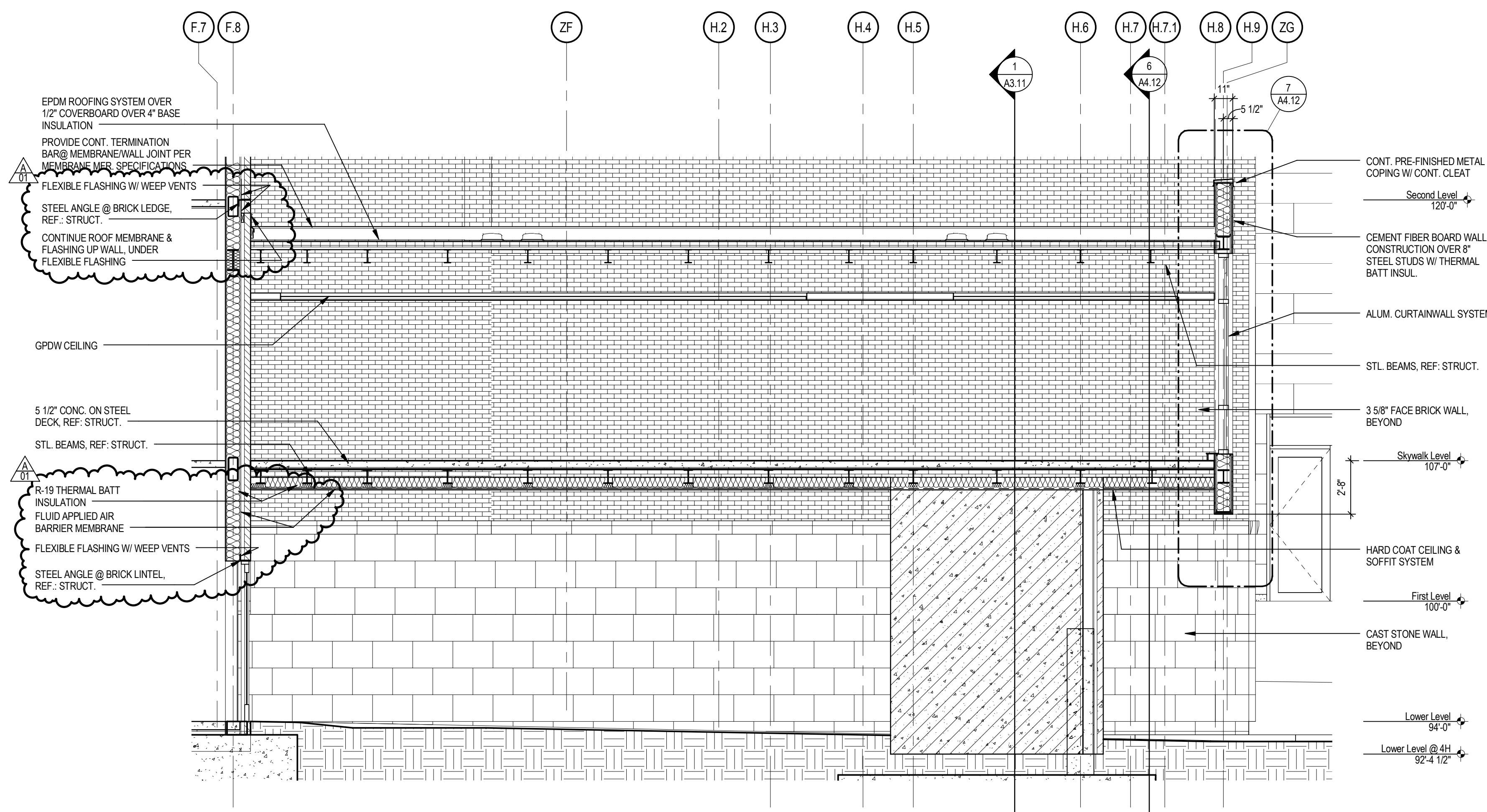
1 SKYWALK CROSS SECTION

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



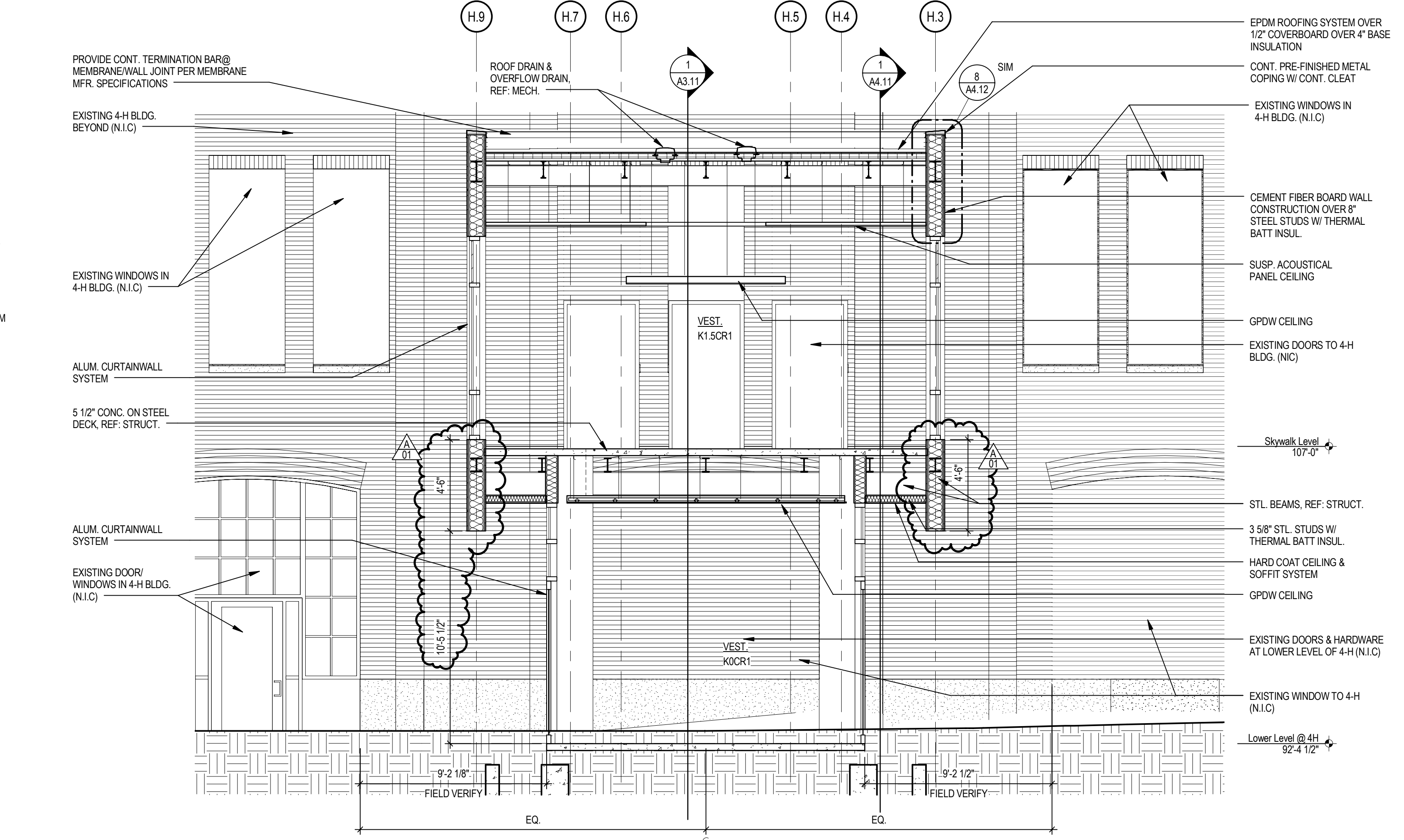
4 CROSS SECTION @ SKYWALK VESTIBULE

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



2 TRANSVERSE BUILDING SECTION

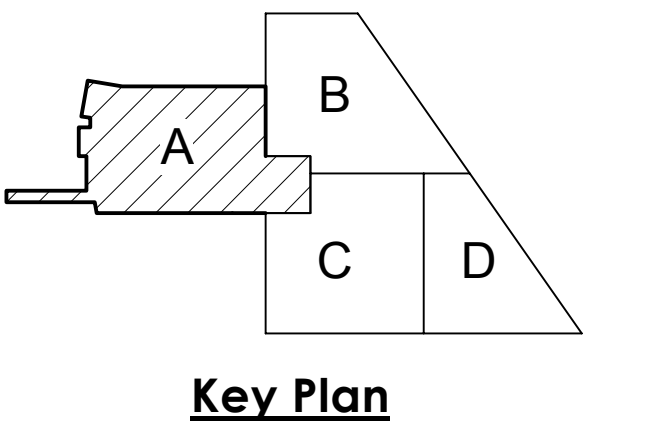
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3 CROSS SECTION @ SKYWALK VESTIBULE

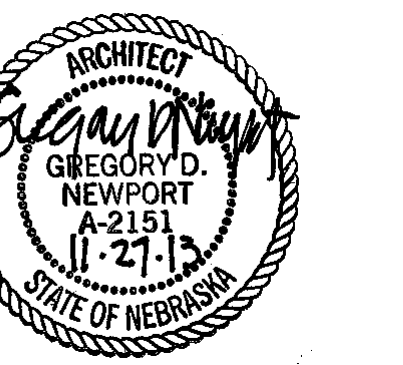
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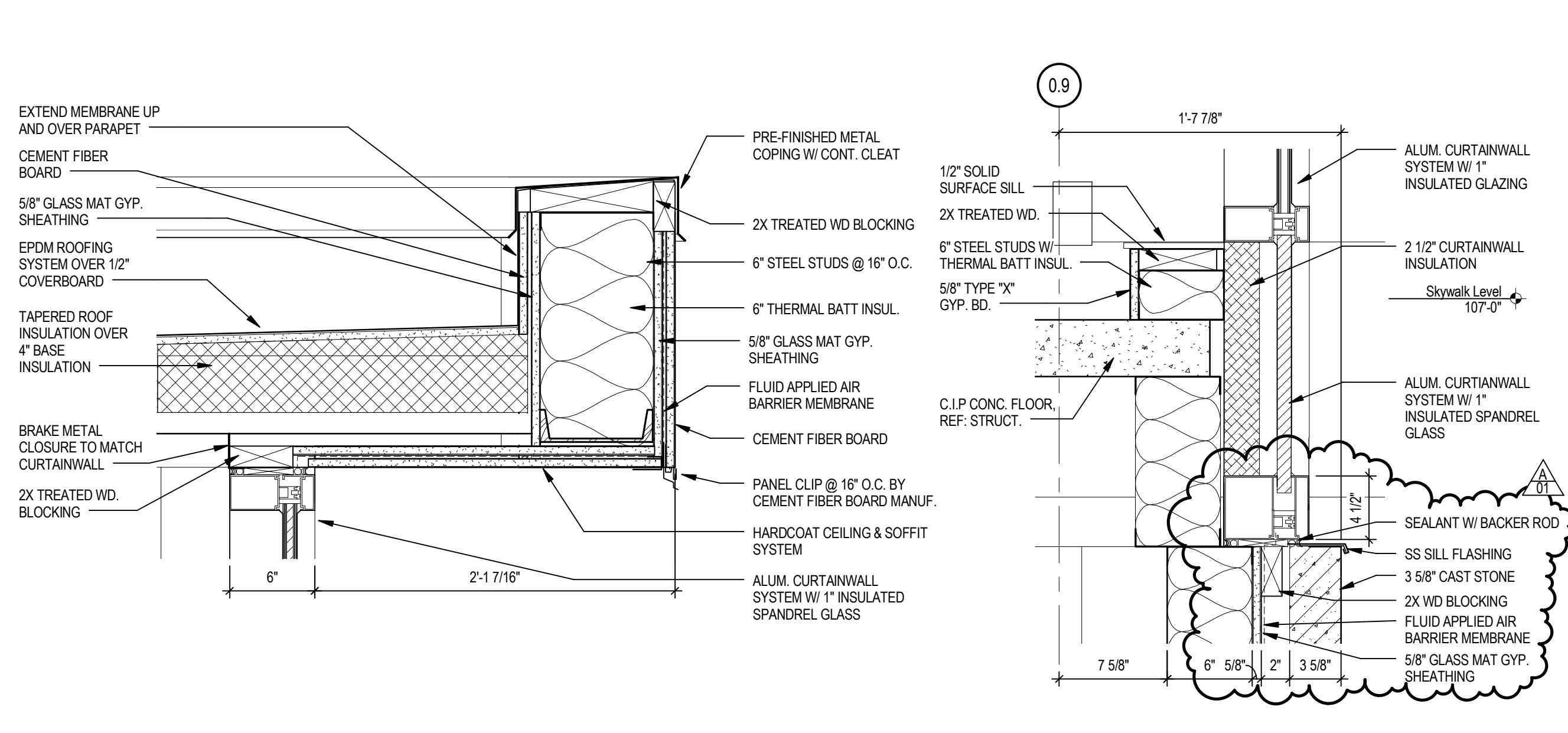
SHEET HISTORY:
 ISSUED 11/27/2013 AS PER CONSTRUCTION DOCUMENTS
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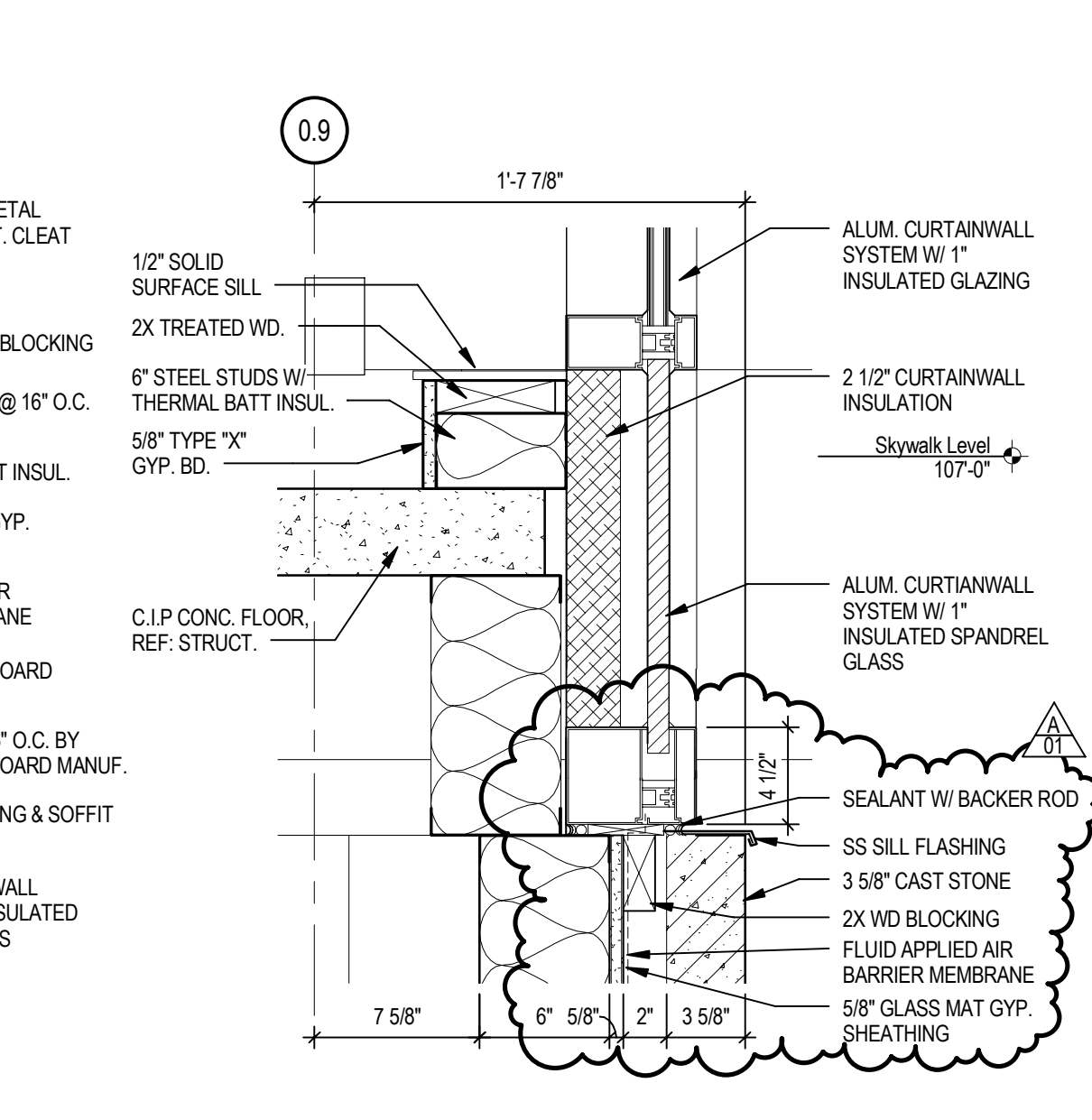
Key Plan

Life Science Collaboration
 1910 N Antelope Valley
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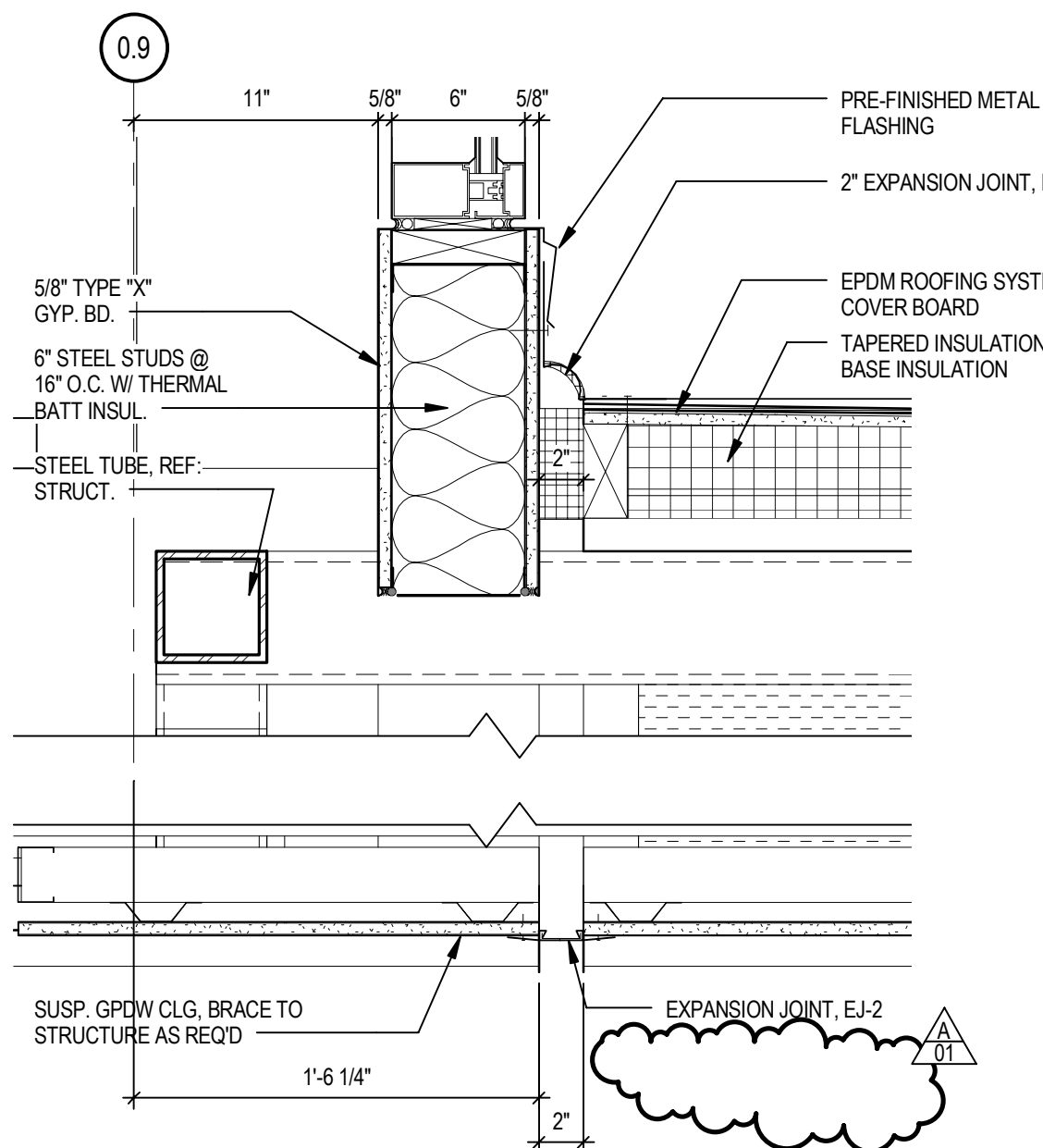




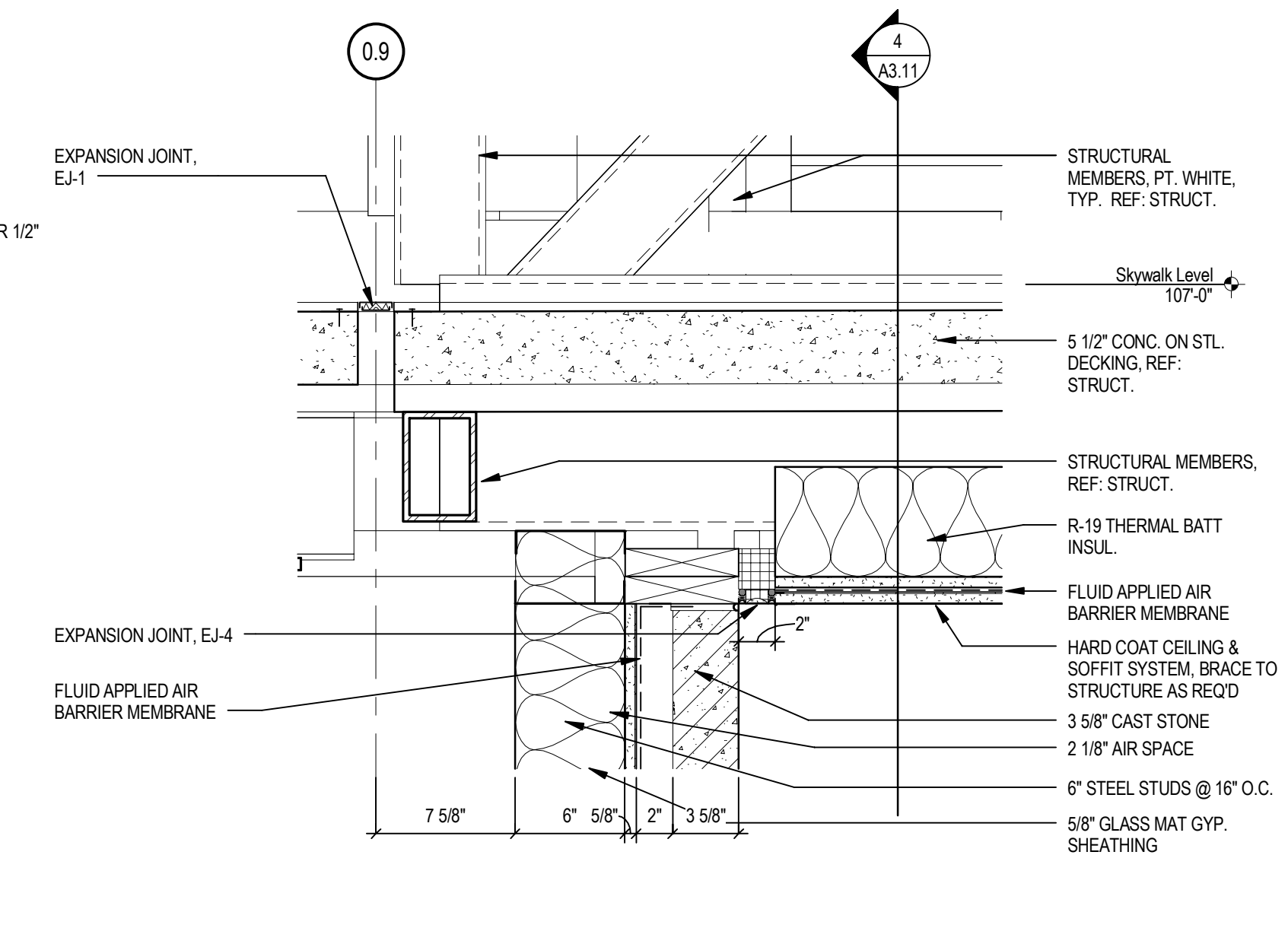
4 PARAPET DETAIL @ SKYWALK VESTIBULE
 SCALE: 1/12" = 1'-0"



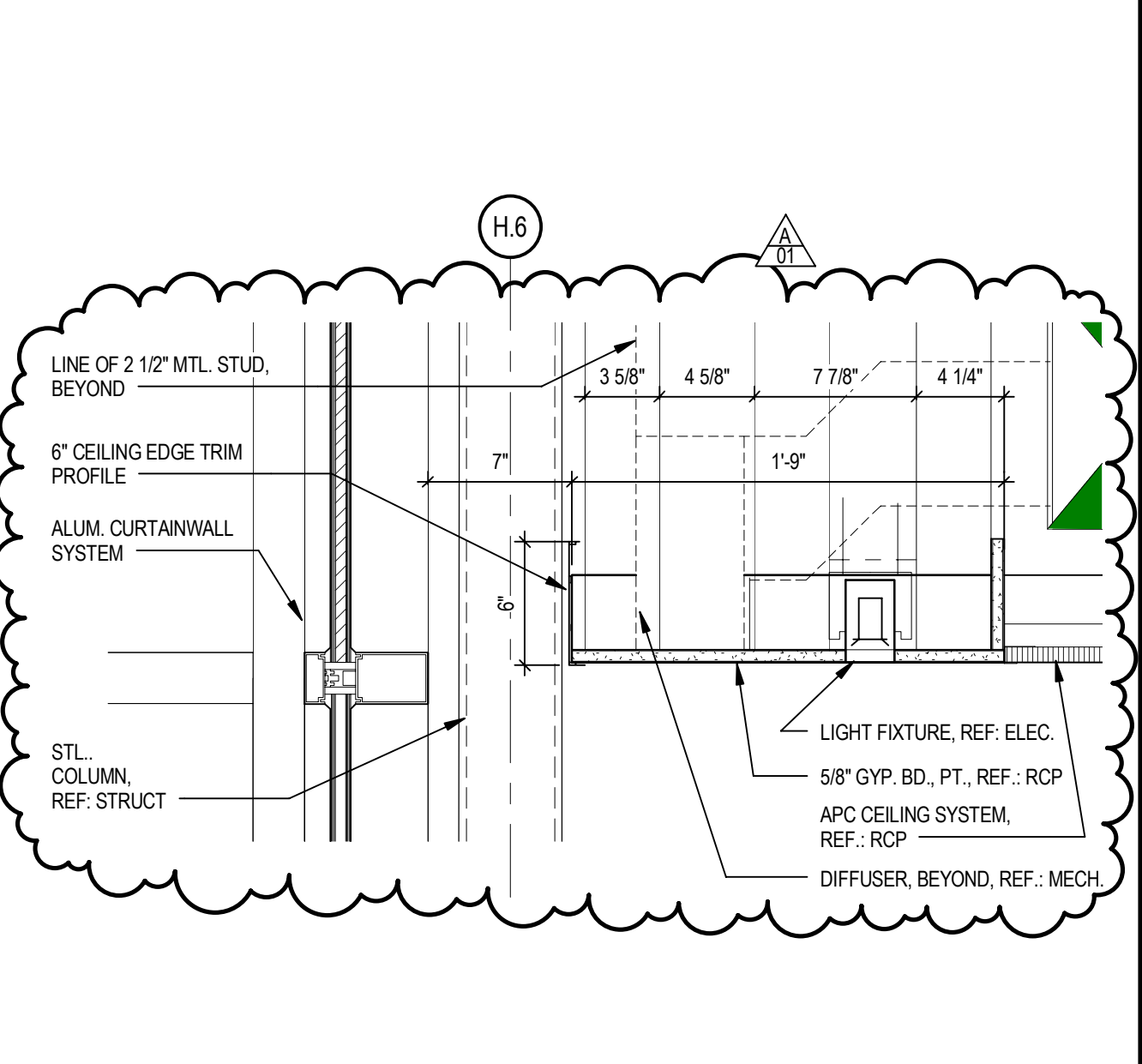
5 SKYWALK CURTAINWALL DETAIL
 SCALE: 1/12" = 1'-0"



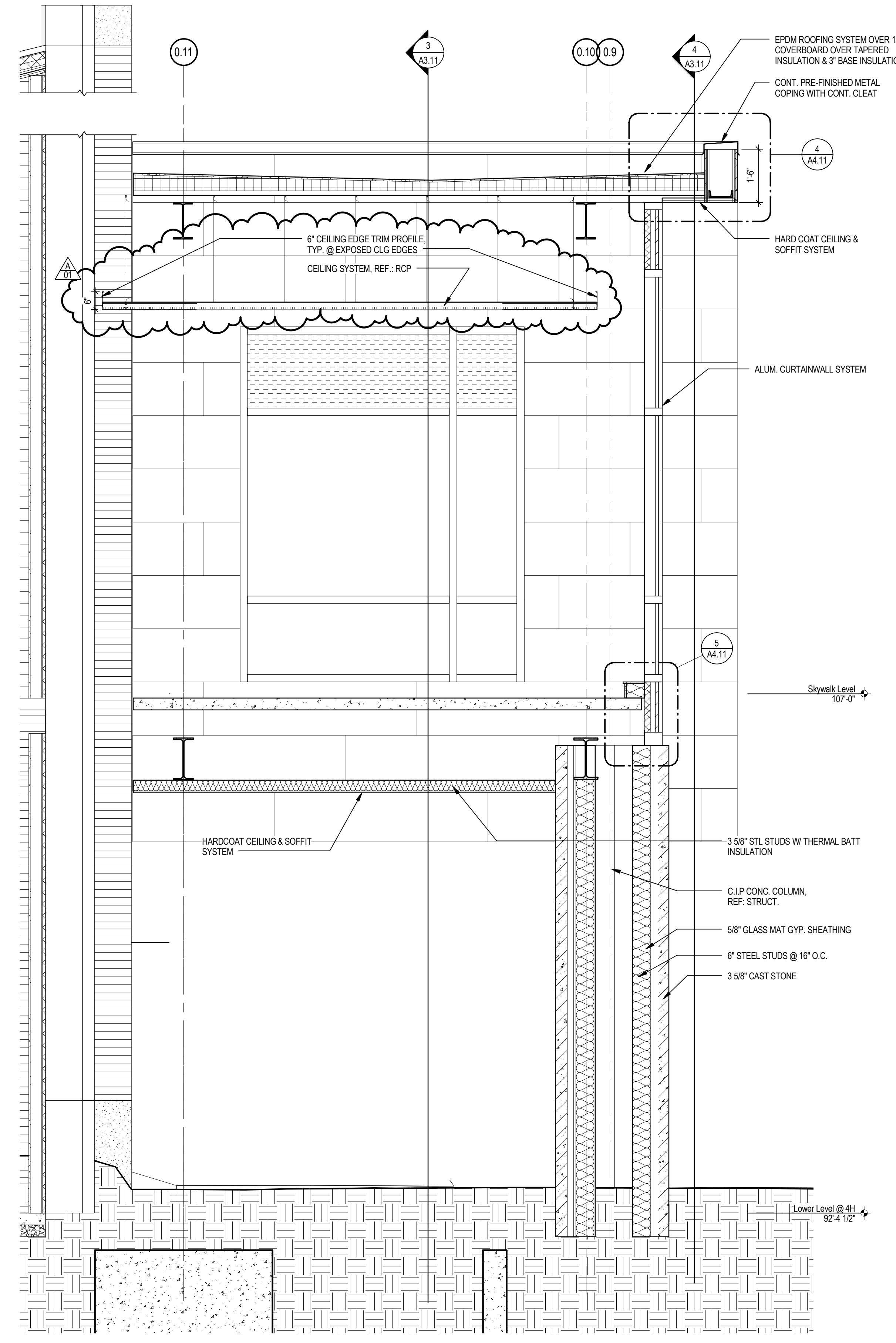
6 DETAIL @ SKYWALK-VESTIBULE CONNECTION
 SCALE: 1/12" = 1'-0"



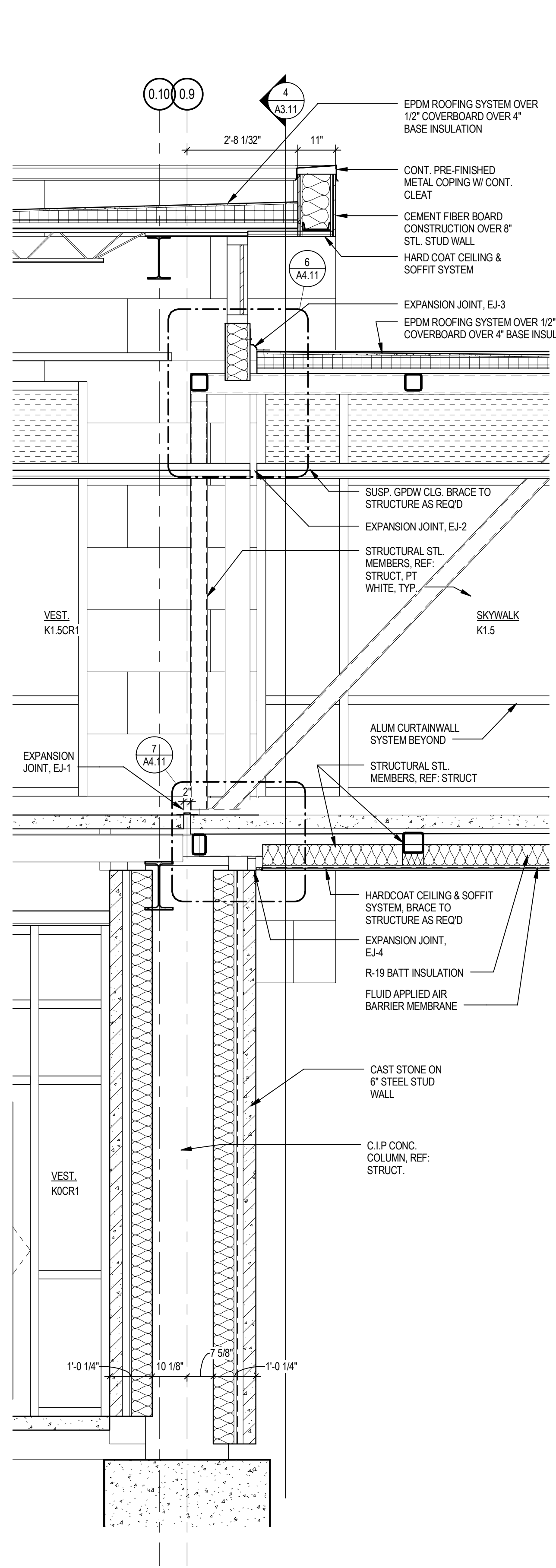
7 DETAIL @ SKYWALK-VESTIBULE CONNECTION
 SCALE: 1/12" = 1'-0"



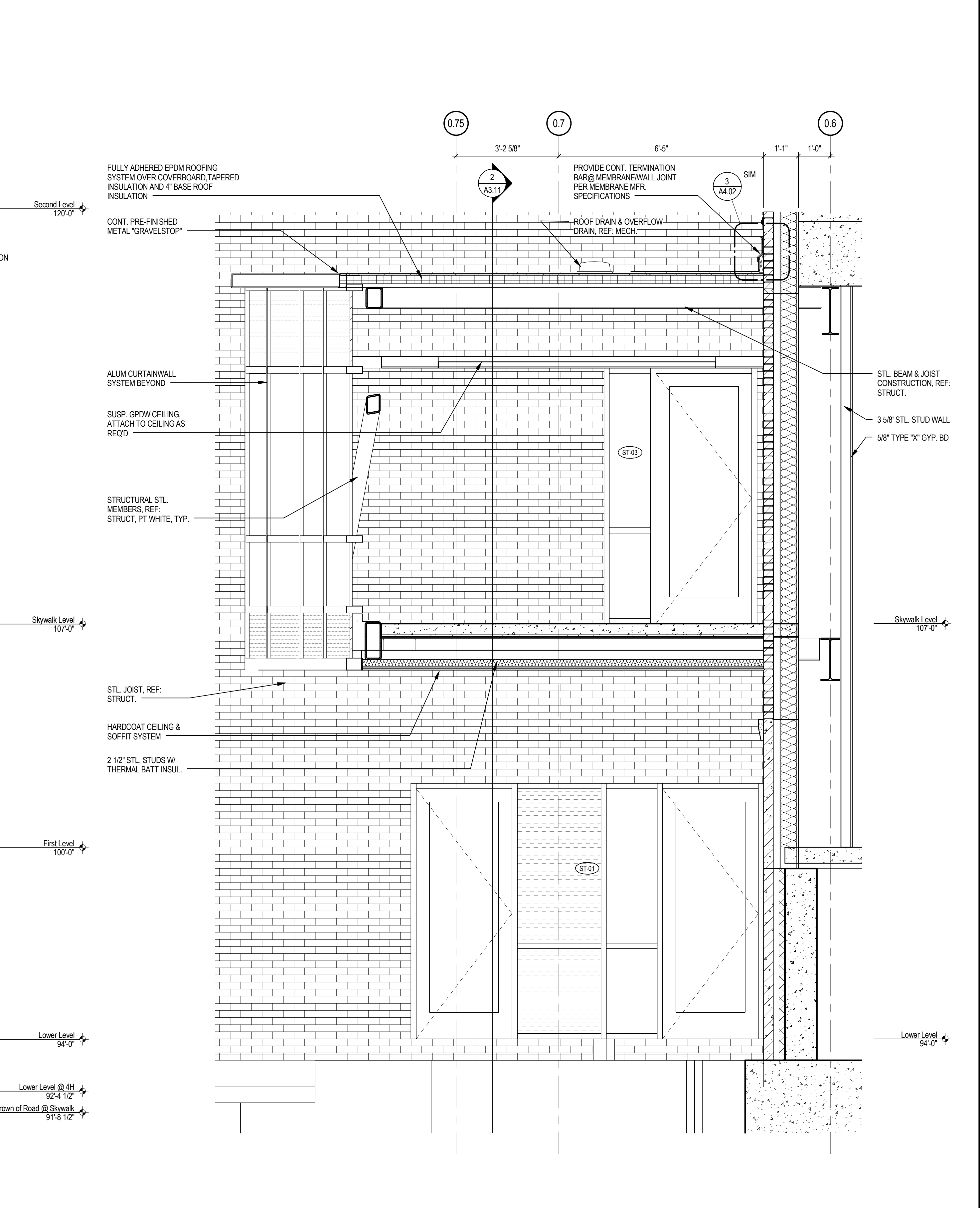
8 SKYWALK LIGHTING DETAIL
 SCALE: 1/12" = 1'-0"



1 WALL SECTION @ SKYWALK VESTIBULE
 SCALE: 1/2" = 1'-0"

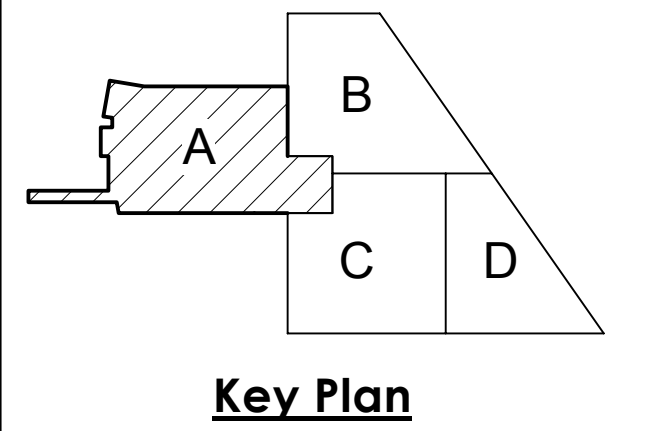


2 WALL SECTION @ SKYWALK-VESTIBULE CONNECTION
 SCALE: 1/2" = 1'-0"



3 SKYWALK SECTION
 SCALE: 1/2" = 1'-0"

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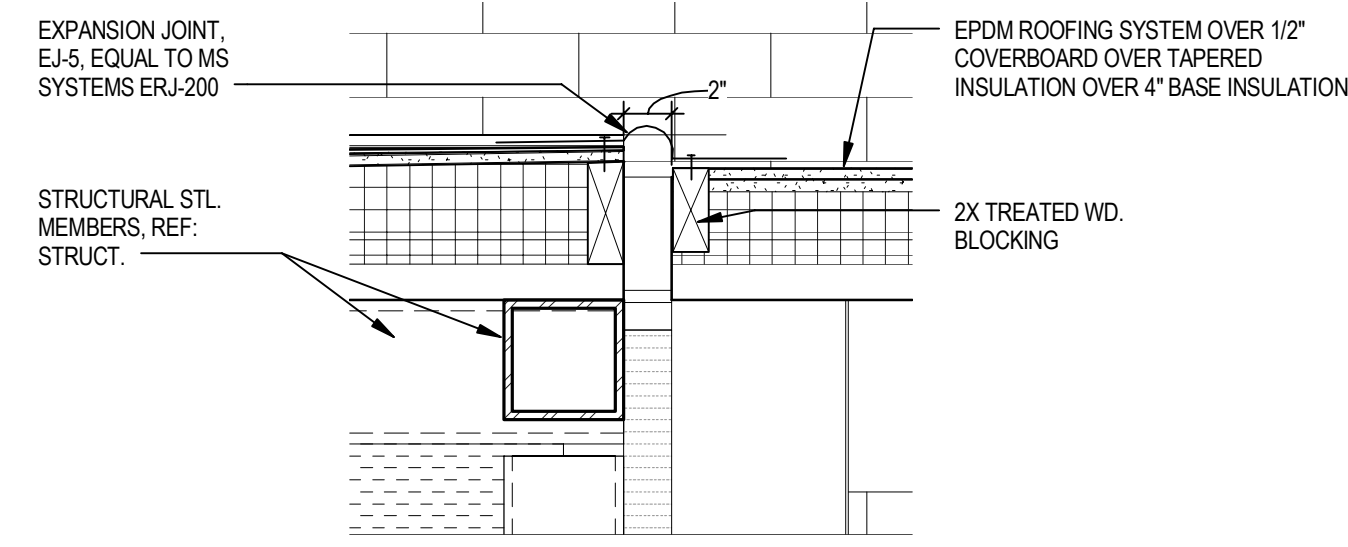
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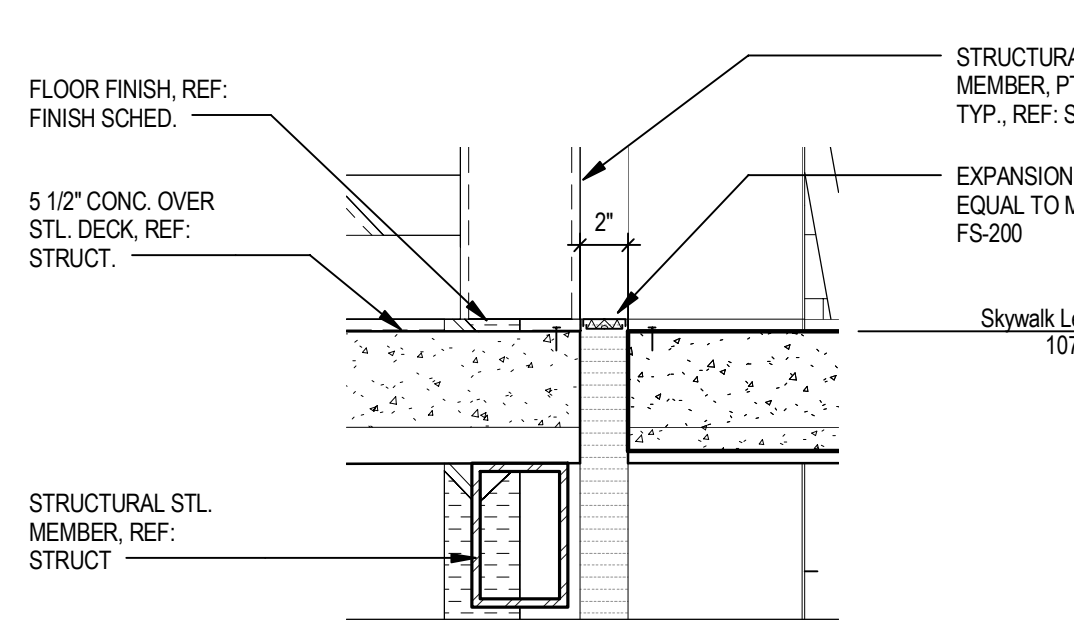
Skywalk Wall Sections

A4.11

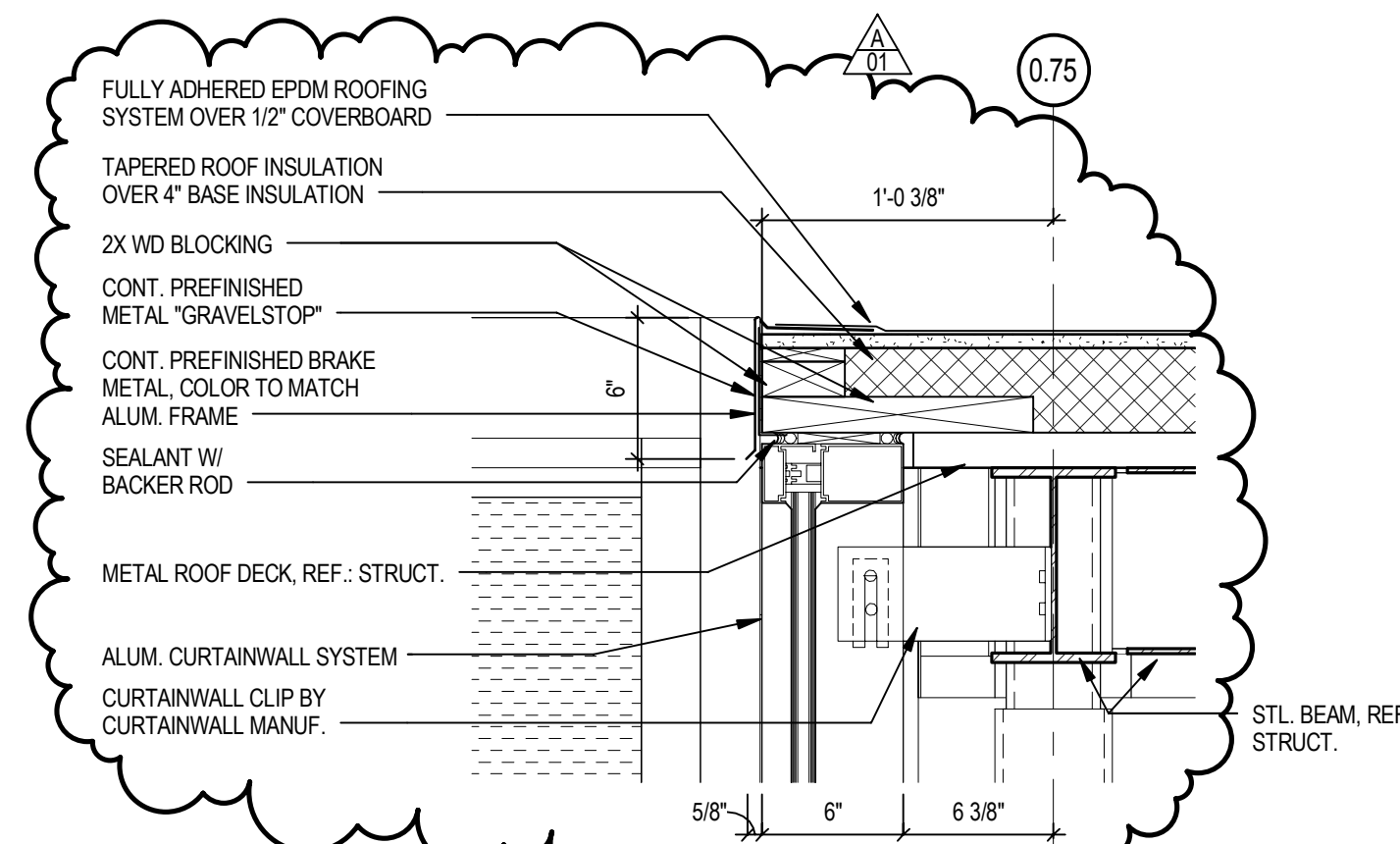
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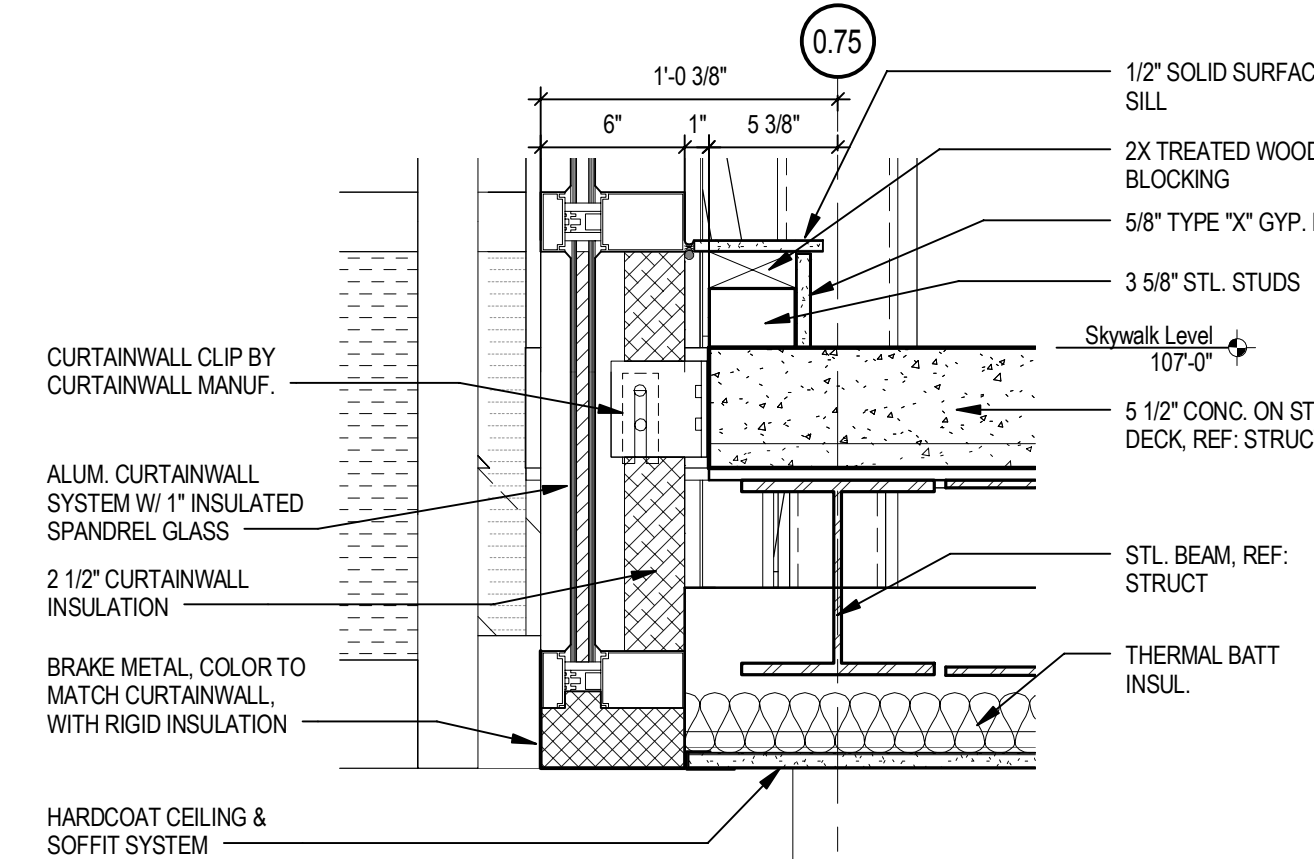
1 SKYWALK EXPANSION JOINT DETAIL
 SCALE: 1 1/2" = 1'-0"



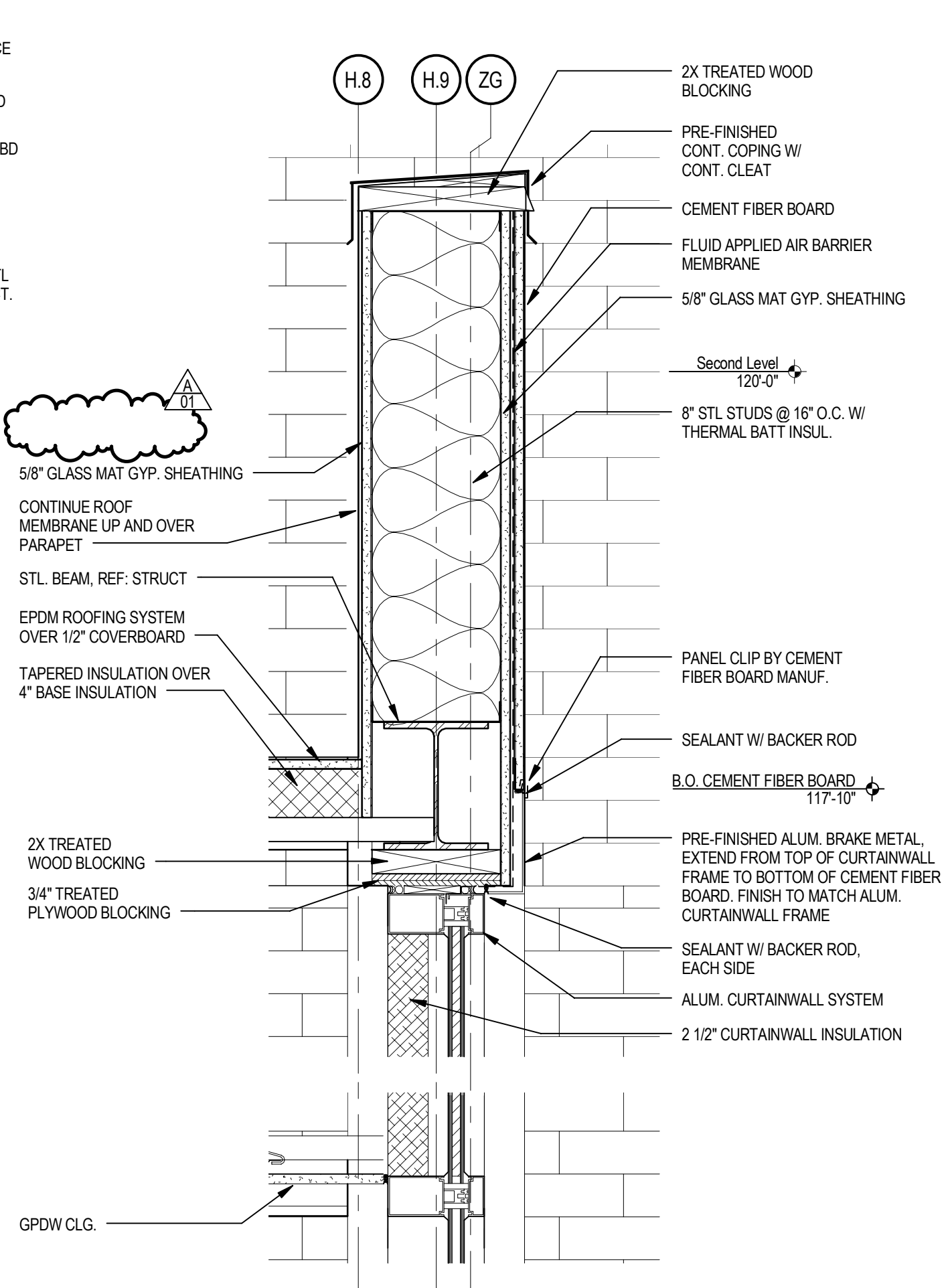
2 SKYWALK EXPANSION JOINT DETAIL
 SCALE: 1 1/2" = 1'-0"



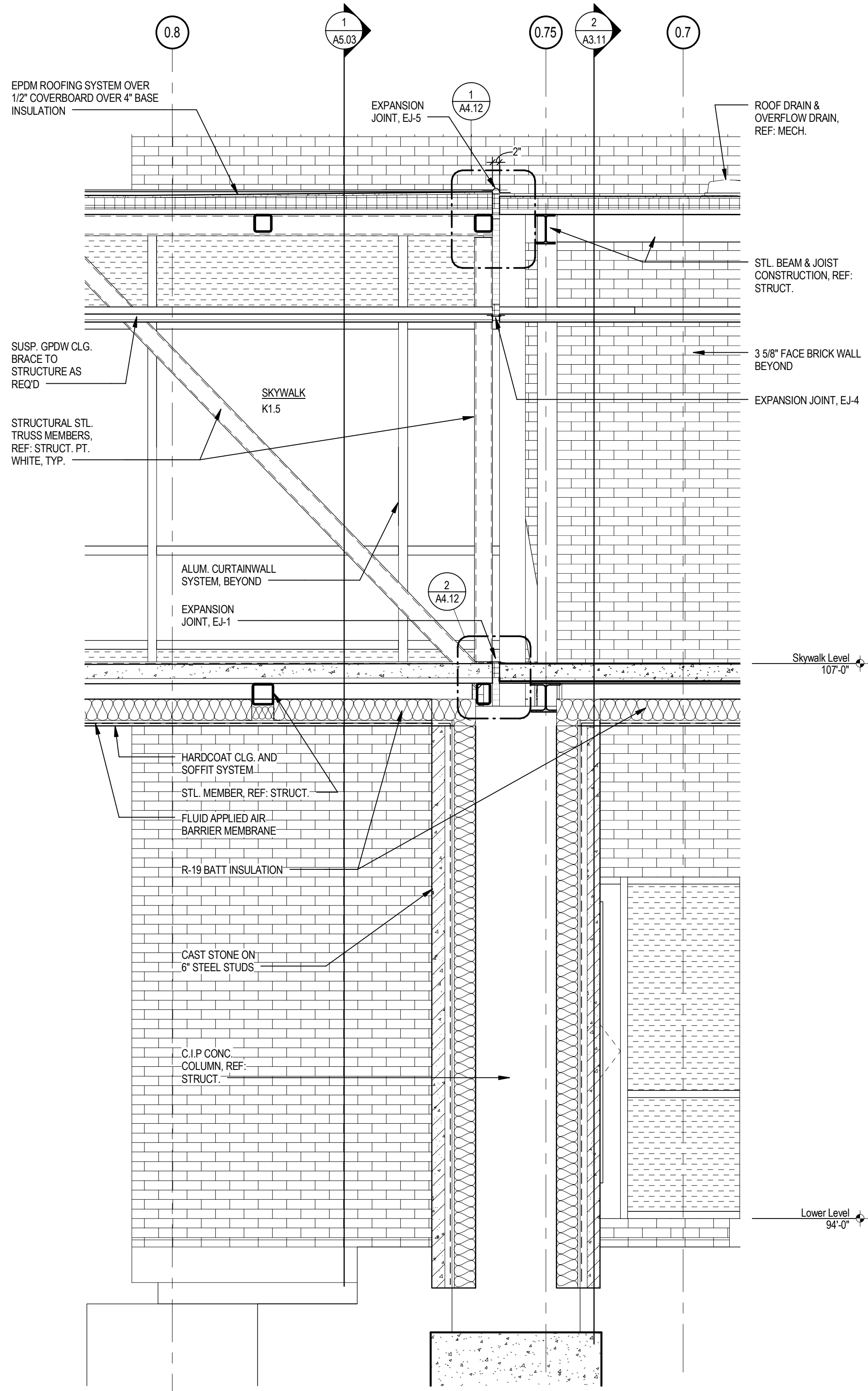
3 SKYWALK NORTH NICHE DETAIL
 SCALE: 1 1/2" = 1'-0"



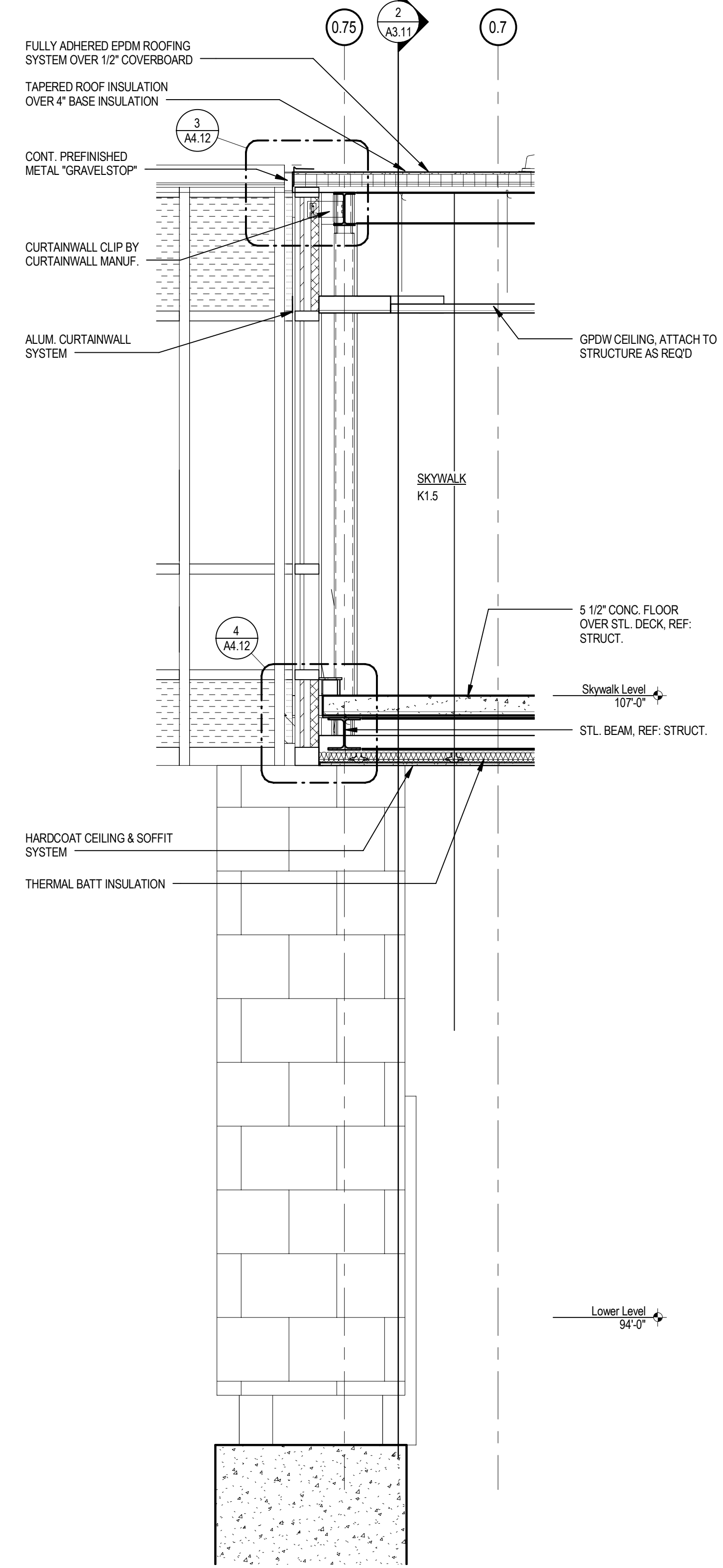
4 SKYWALK NORTH NICHE DETAIL
 SCALE: 1 1/2" = 1'-0"



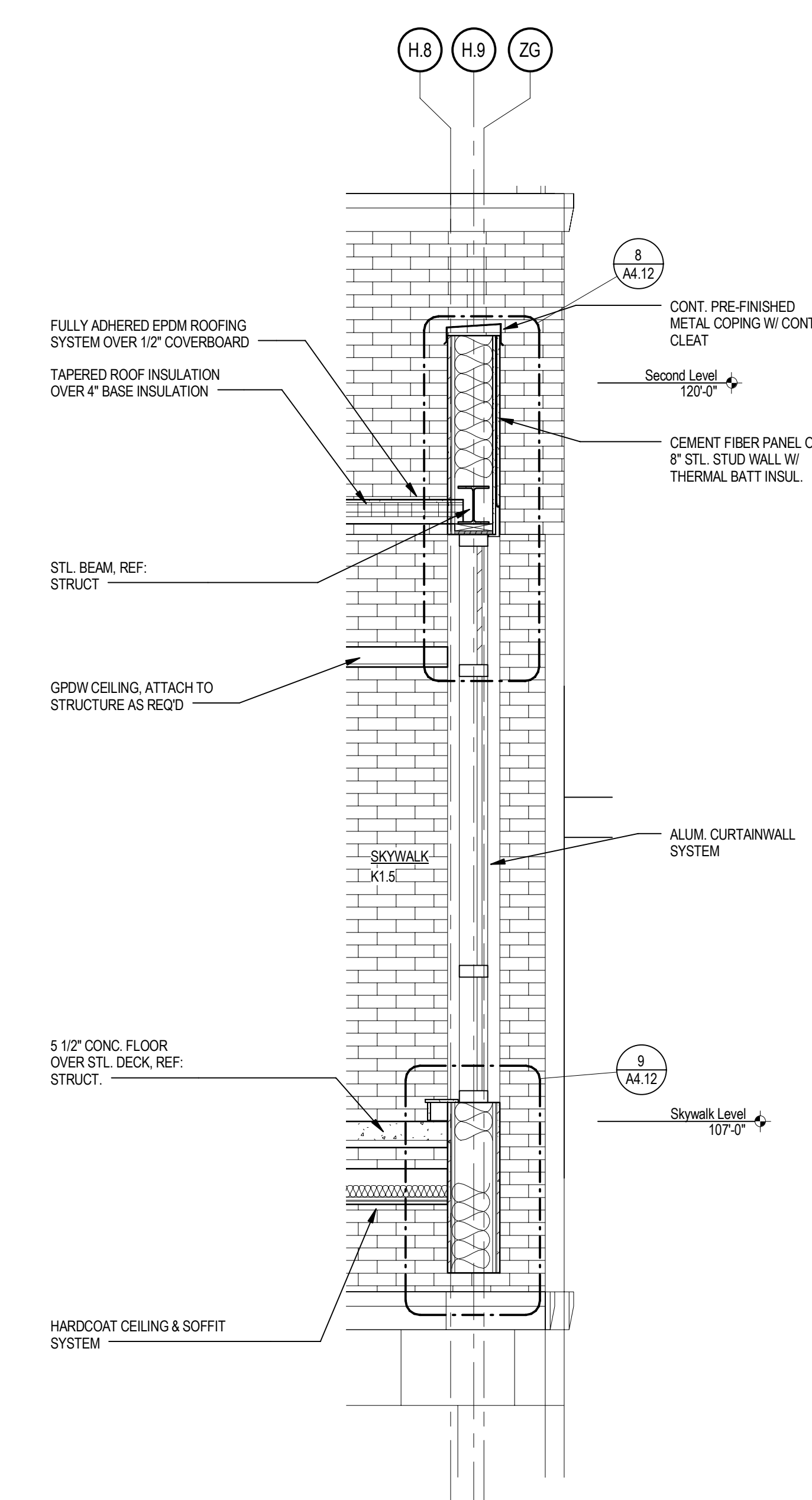
8 SKYWALK SOUTH NICHE DETAIL
 SCALE: 1 1/2" = 1'-0"



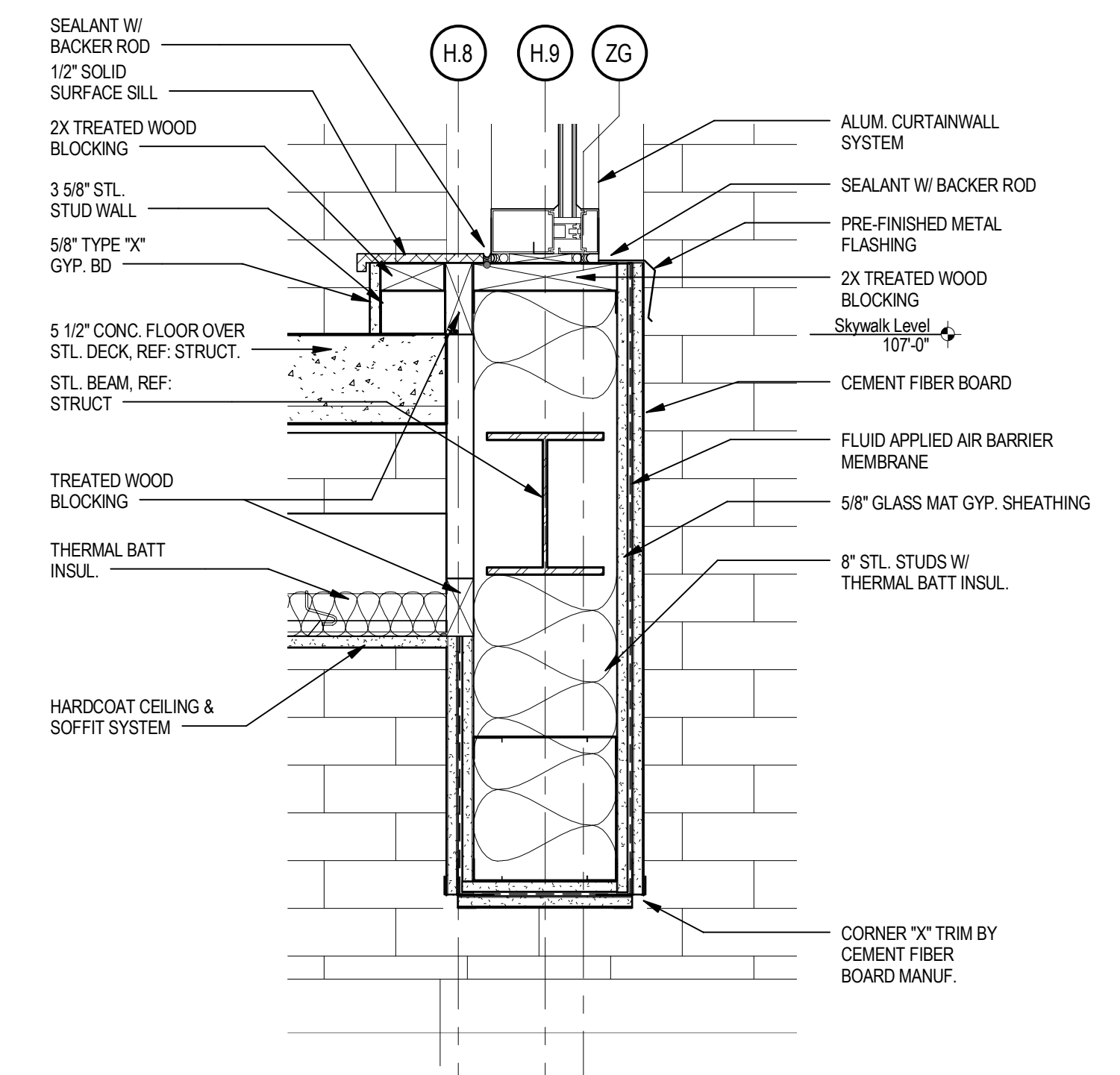
5 WALL SECTION
 SCALE: 1/2" = 1'-0"



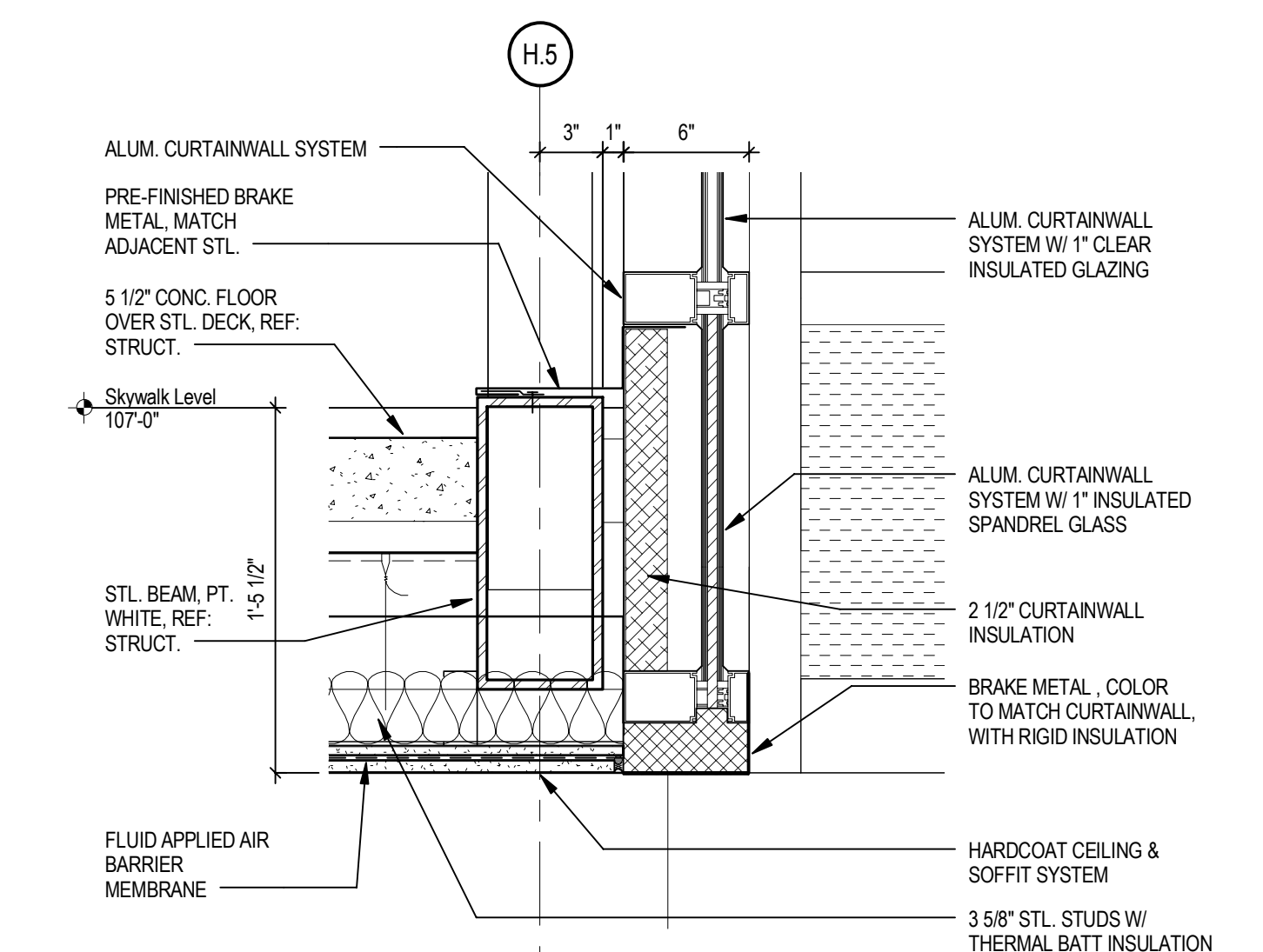
6 WALL SECTION
 SCALE: 1/2" = 1'-0"



7 WALL SECTION
 SCALE: 1/2" = 1'-0"

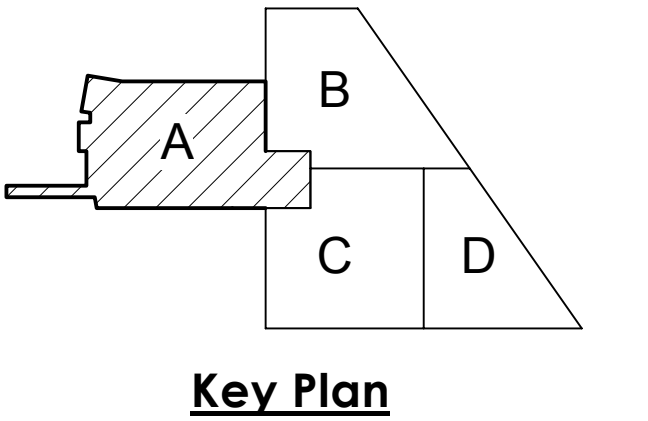


9 SKYWALK SOUTH NICHE DETAIL
 SCALE: 1 1/2" = 1'-0"



10 SKYWALK SILL DETAIL
 SCALE: 1 1/2" = 1'-0"

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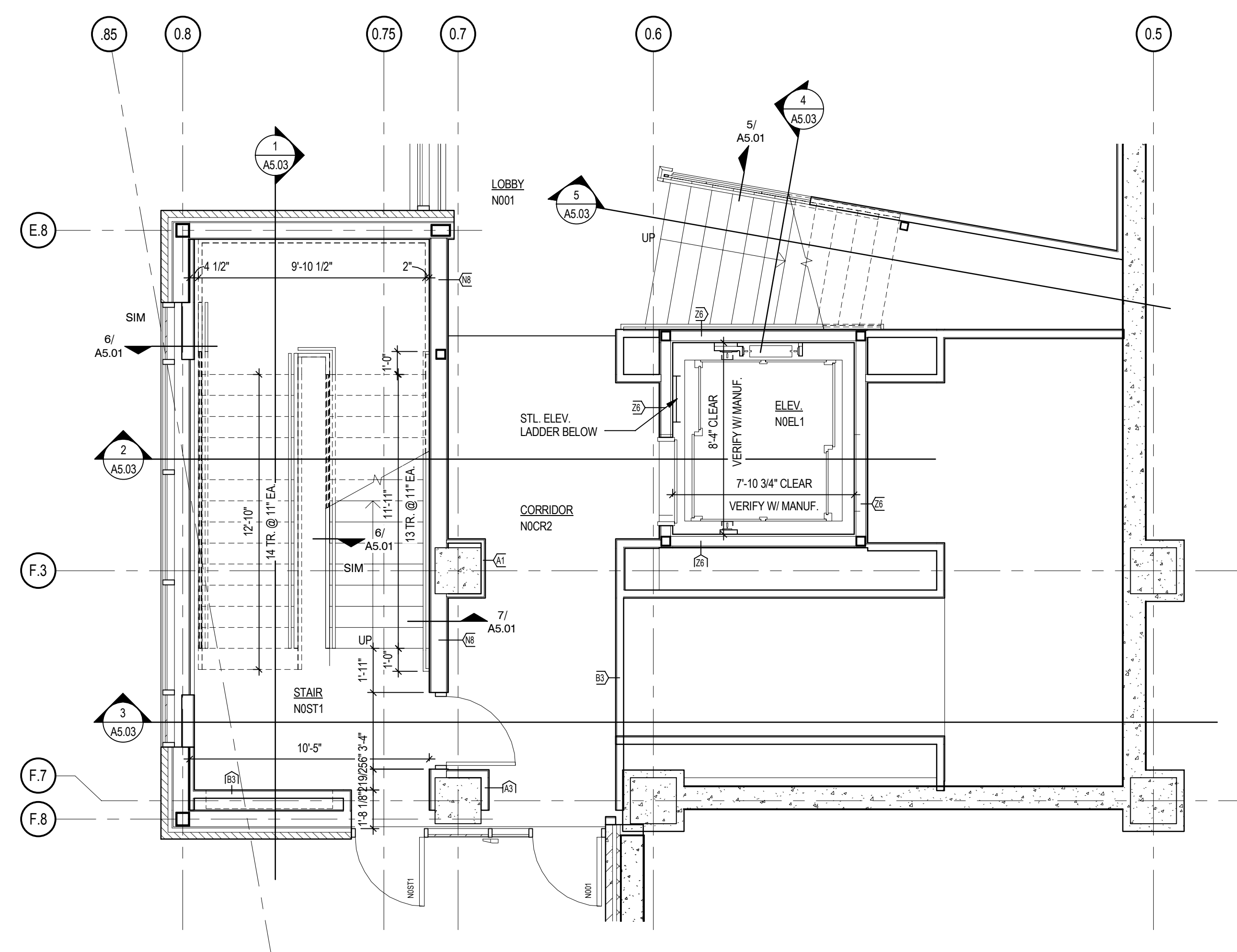


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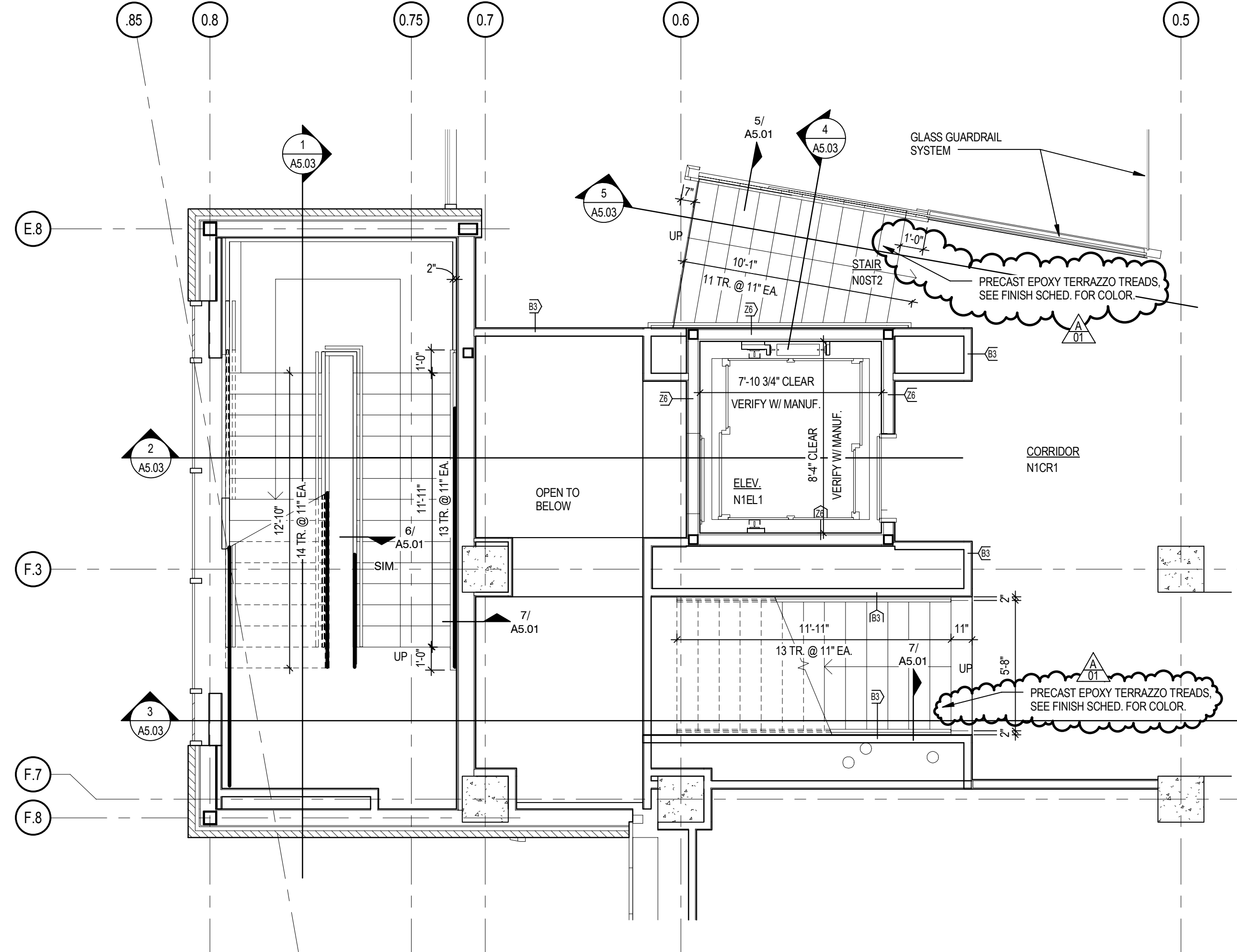


Skywalk Wall Sections

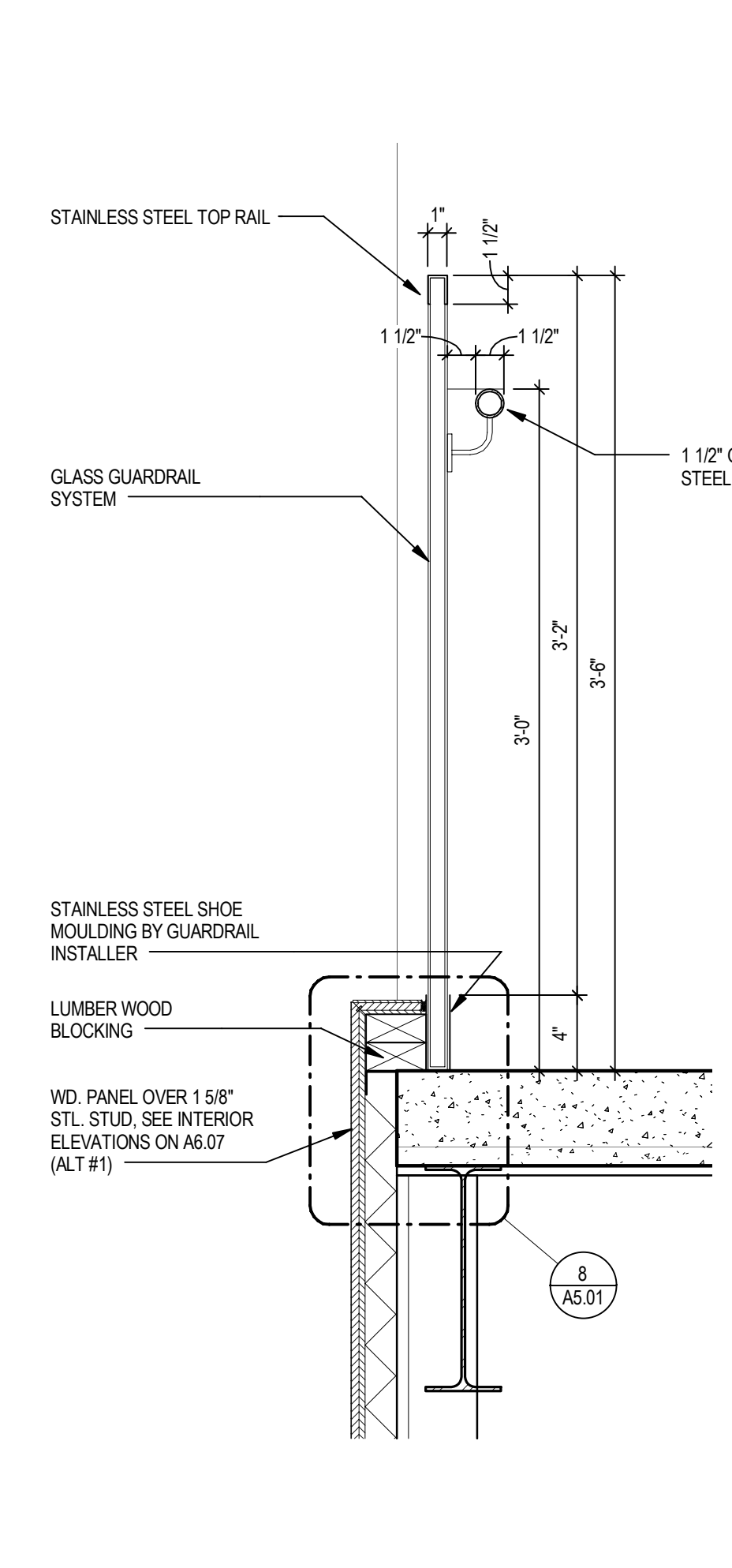
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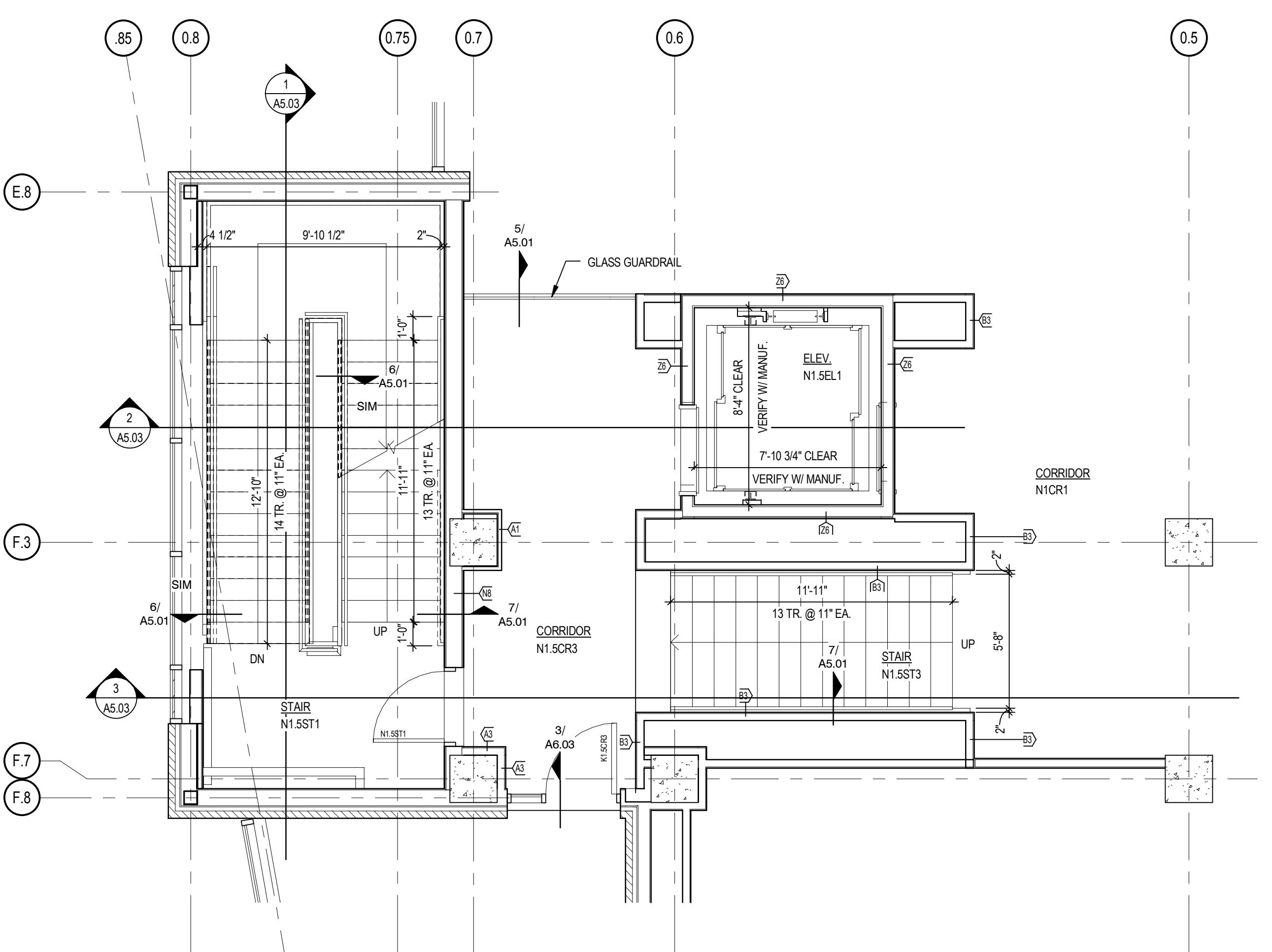
1 ENLARGED NORTH STAIR PLAN - LOWER LEVEL
 SCALE: 1/4" = 1'-0"



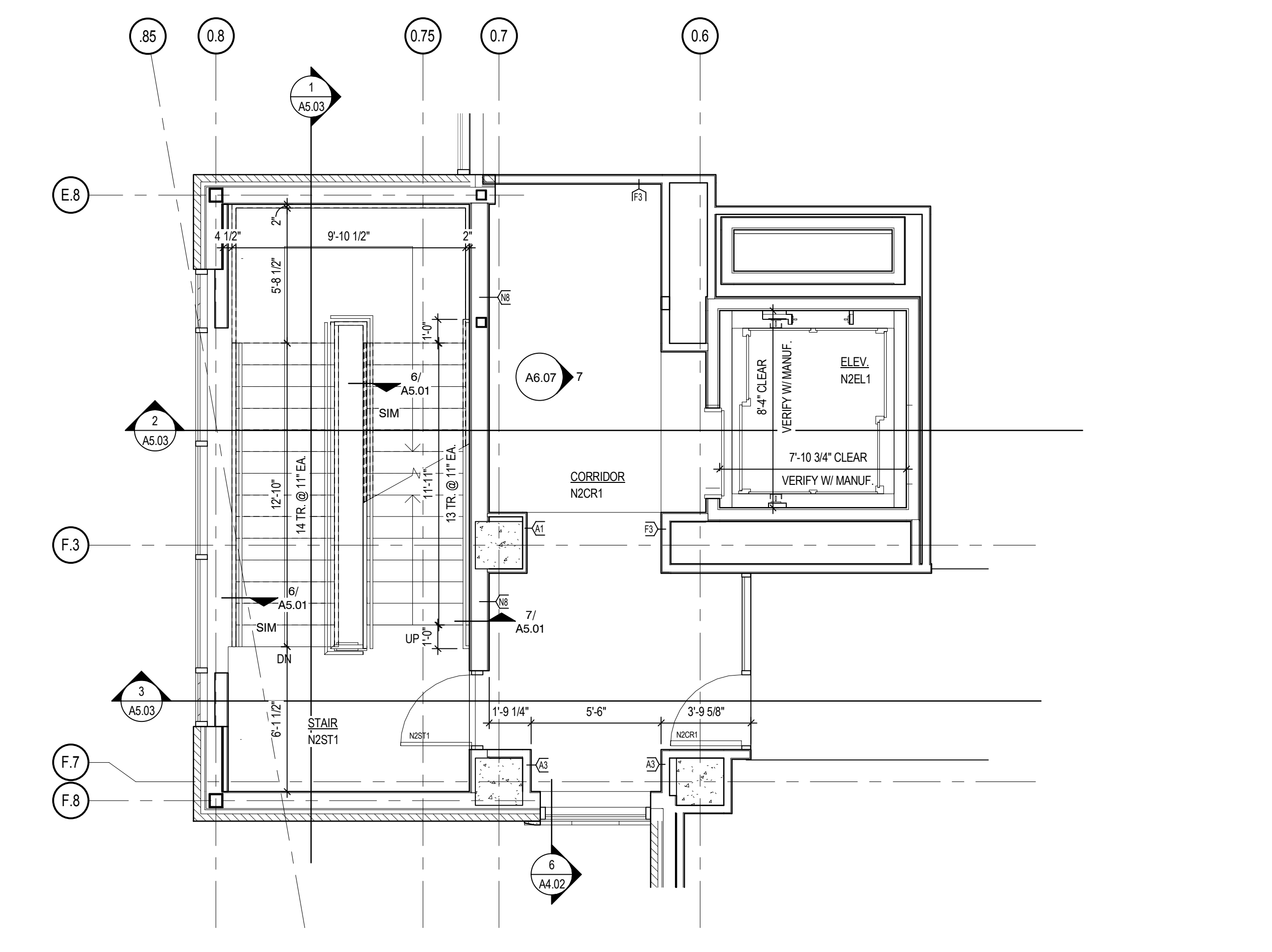
2 ENLARGED NORTH STAIR PLAN - FIRST LEVEL
 SCALE: 1/4" = 1'-0"



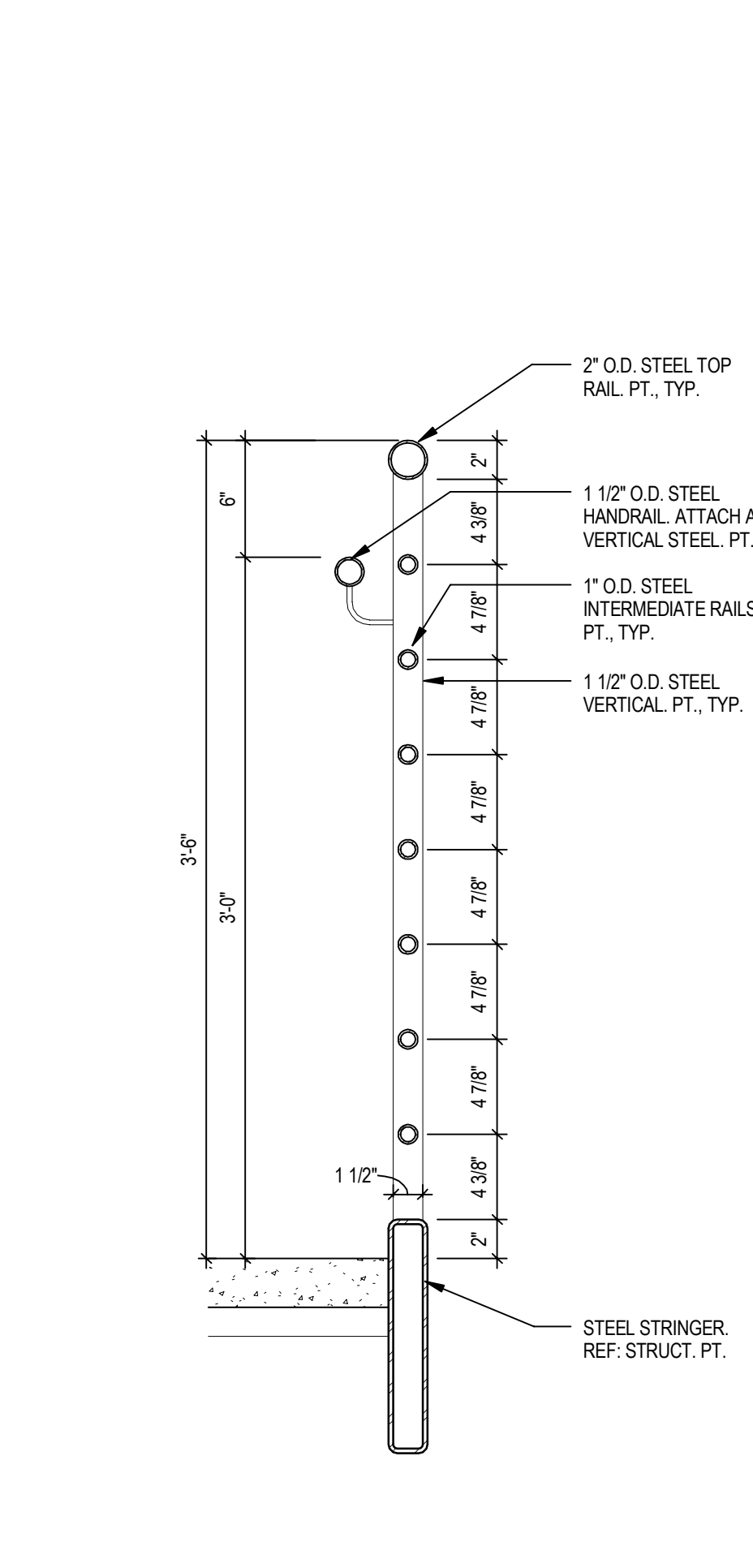
5 TYP. GLASS GUARDRAIL DETAIL
 SCALE: 1 1/2" = 1'-0"



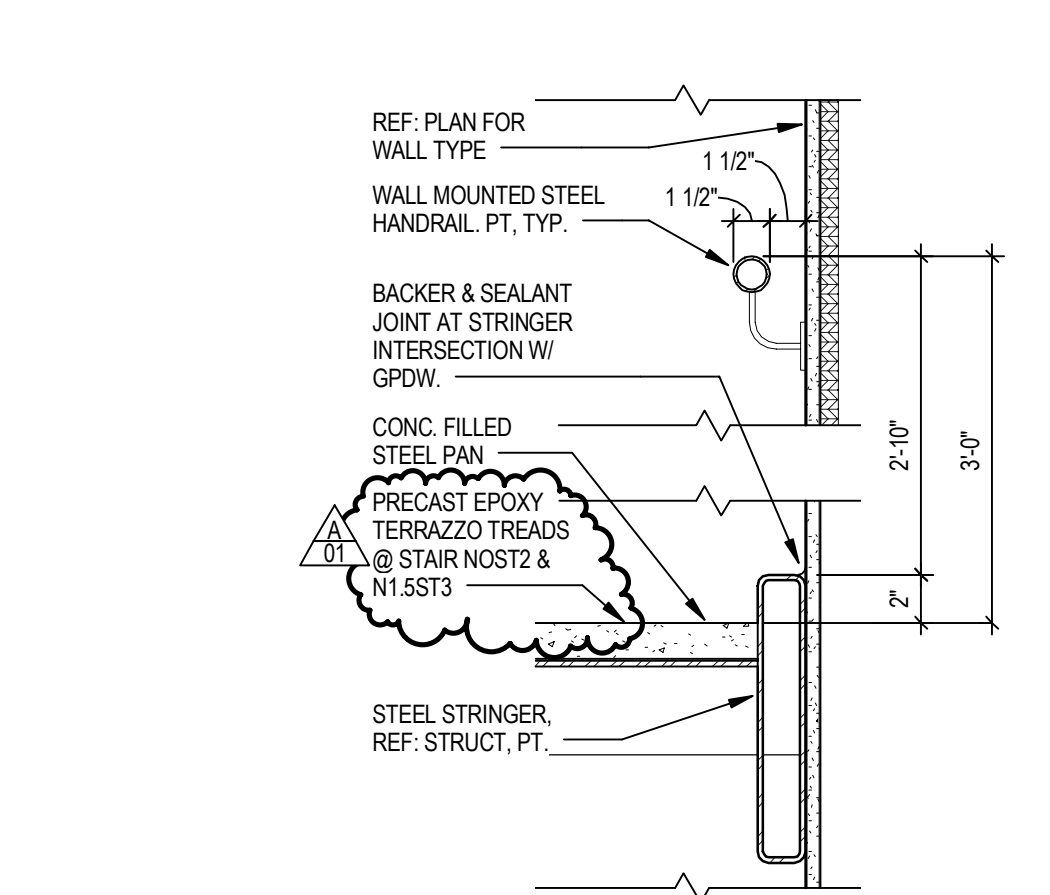
3 ENLARGED NORTH STAIR PLAN - SKYWALK LEVEL
 SCALE: 1/4" = 1'-0"



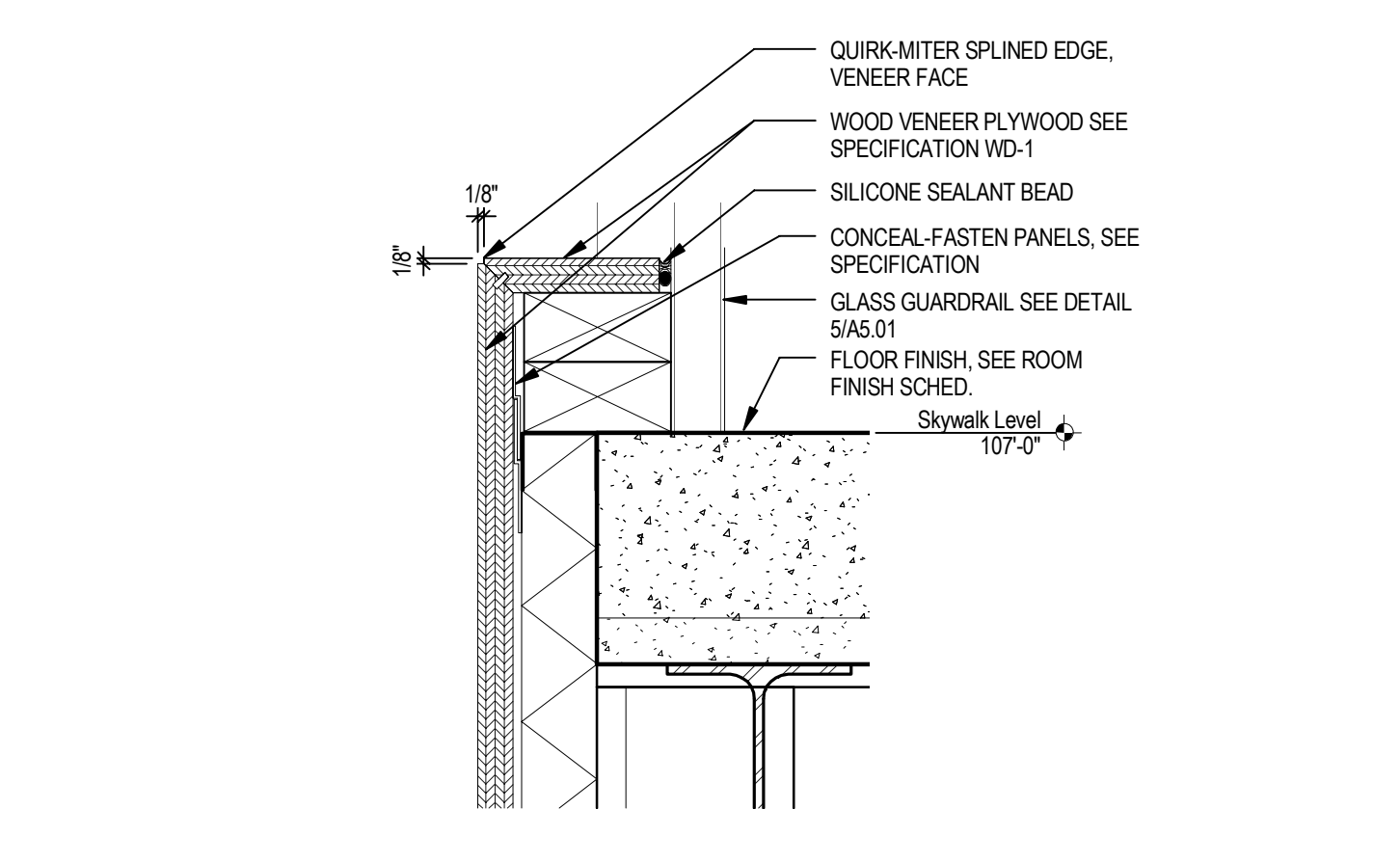
4 ENLARGED NORTH STAIR PLAN - SECOND LEVEL
 SCALE: 1/4" = 1'-0"



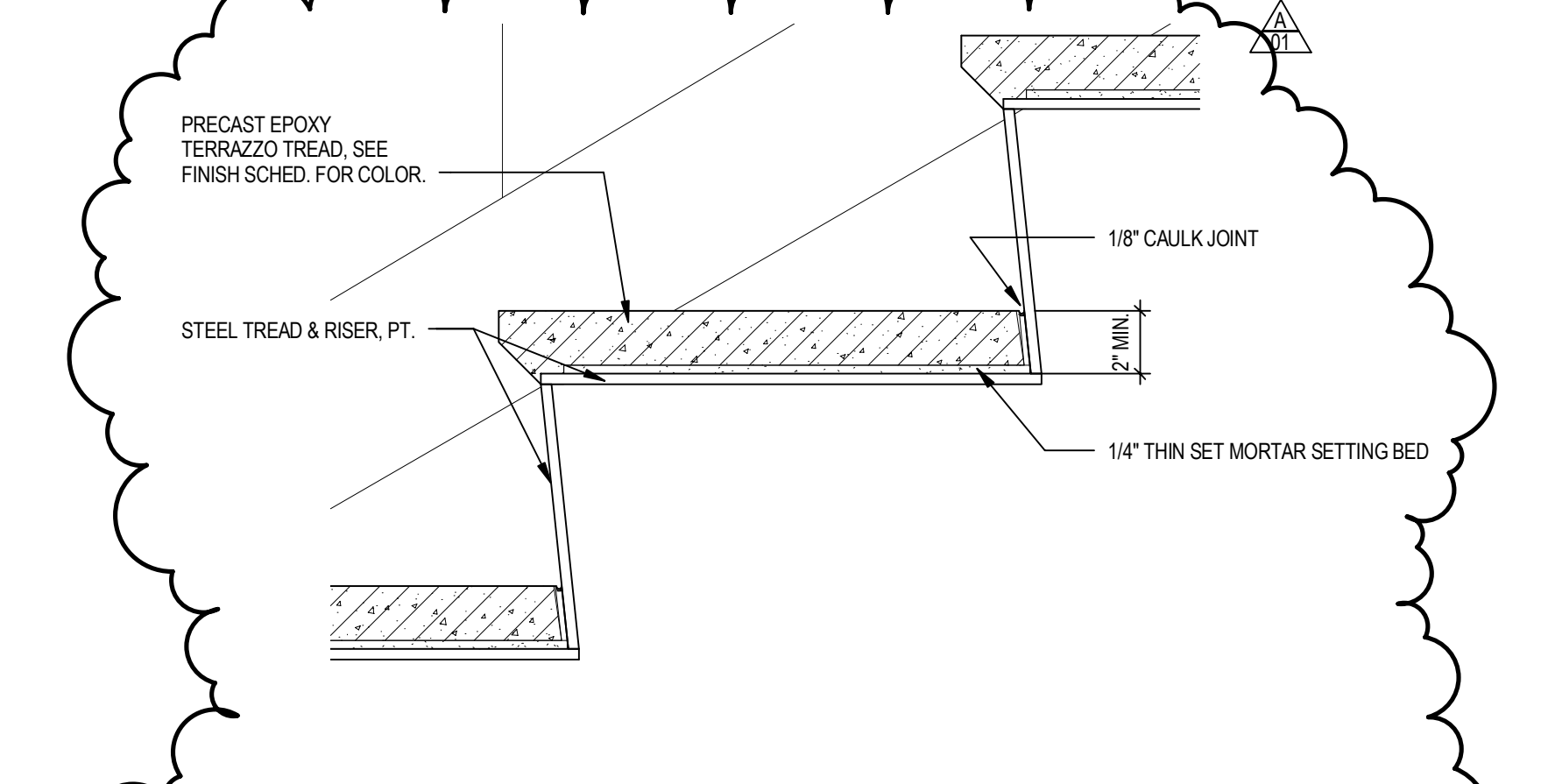
6 TYP. GUARDRAIL DETAIL
 SCALE: 1 1/2" = 1'-0"



7 TYP. HANDRAIL DETAIL
 SCALE: 1 1/2" = 1'-0"

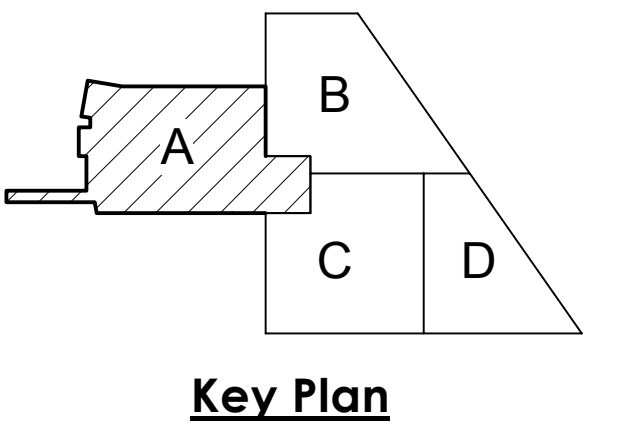


8 WOOD PANEL TOP TERMINATION DETAIL
 SCALE: 3" = 1'-0"



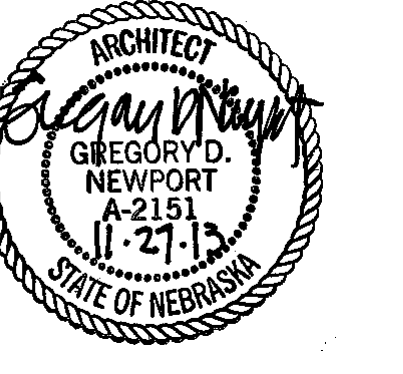
9 STAIR TREAD DETAIL
 SCALE: 3" = 1'-0"

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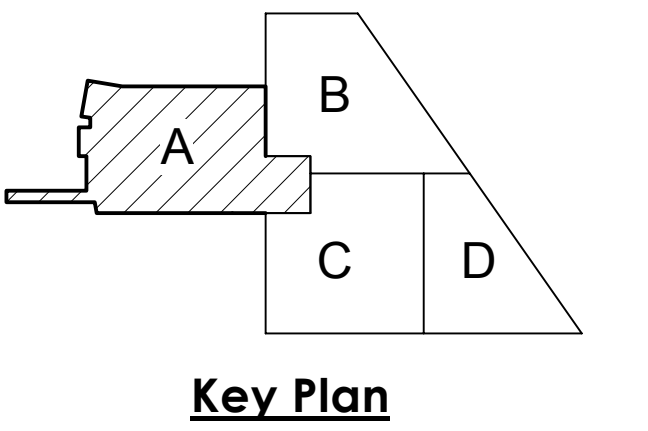
Key Plan

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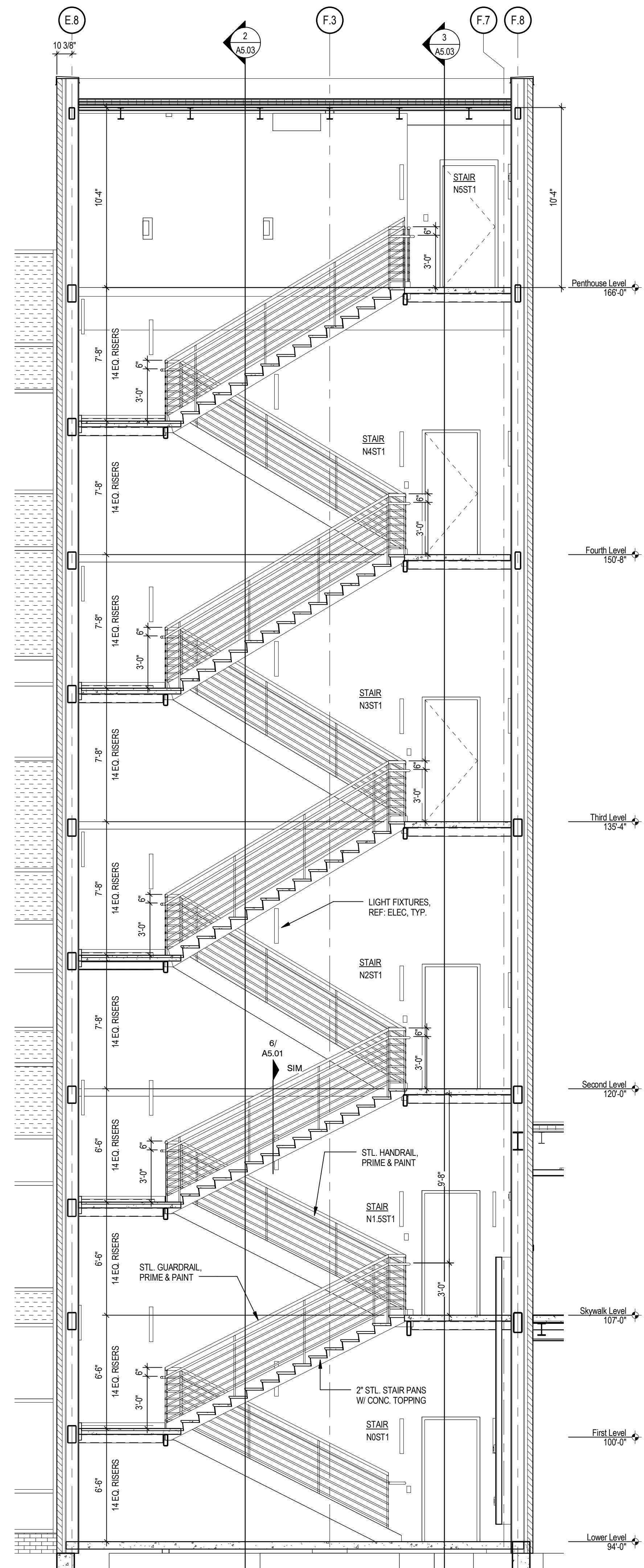


Enlarged North Stair Floor Plans

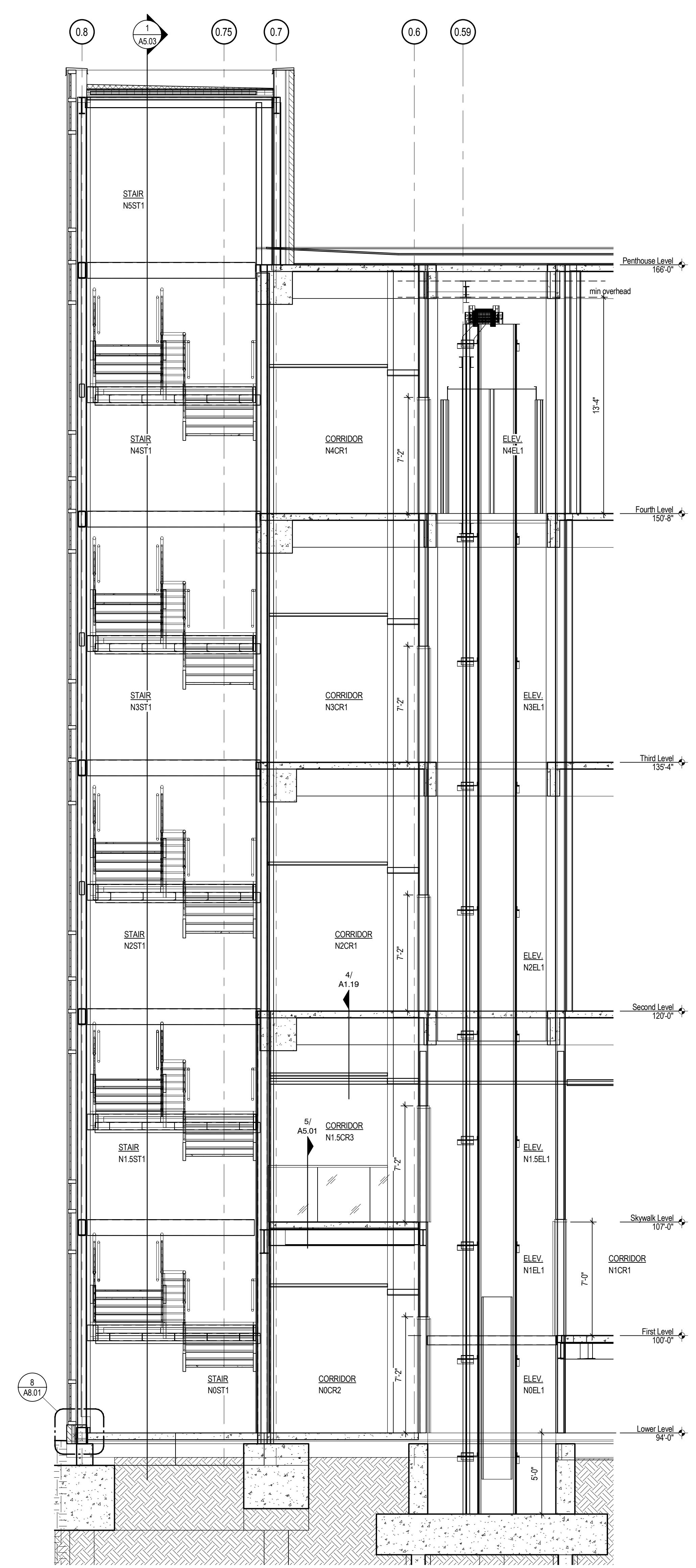
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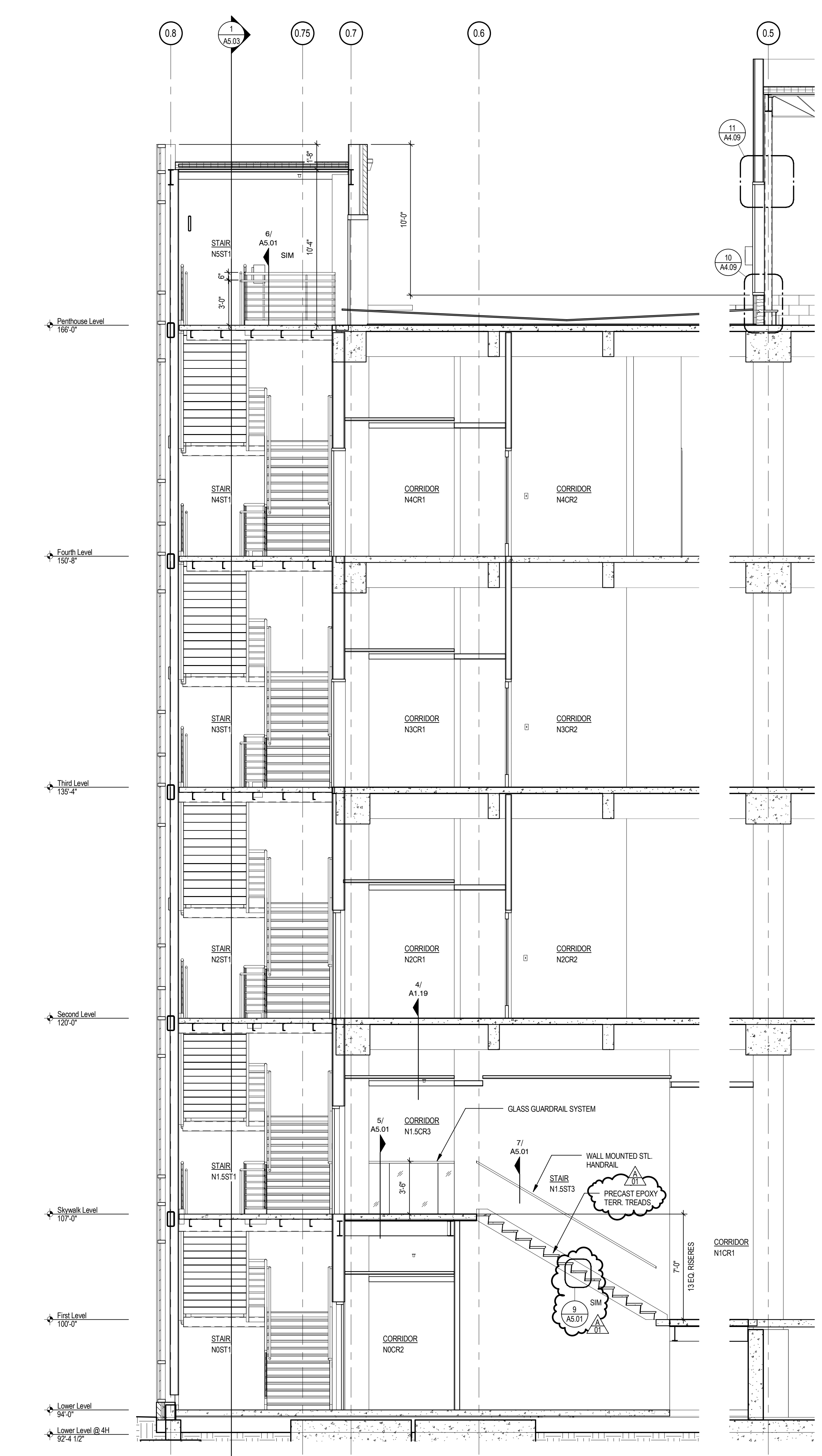
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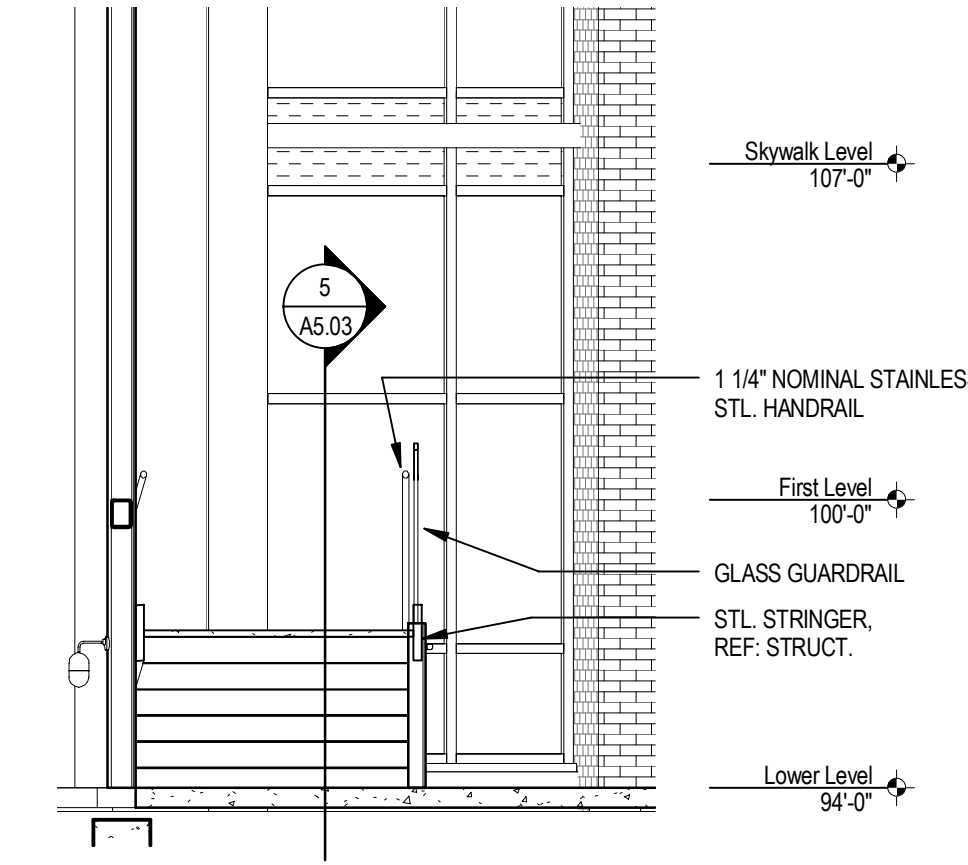
1 NORTH STAIR SECTION
 SCALE: 1/4" = 1'-0"



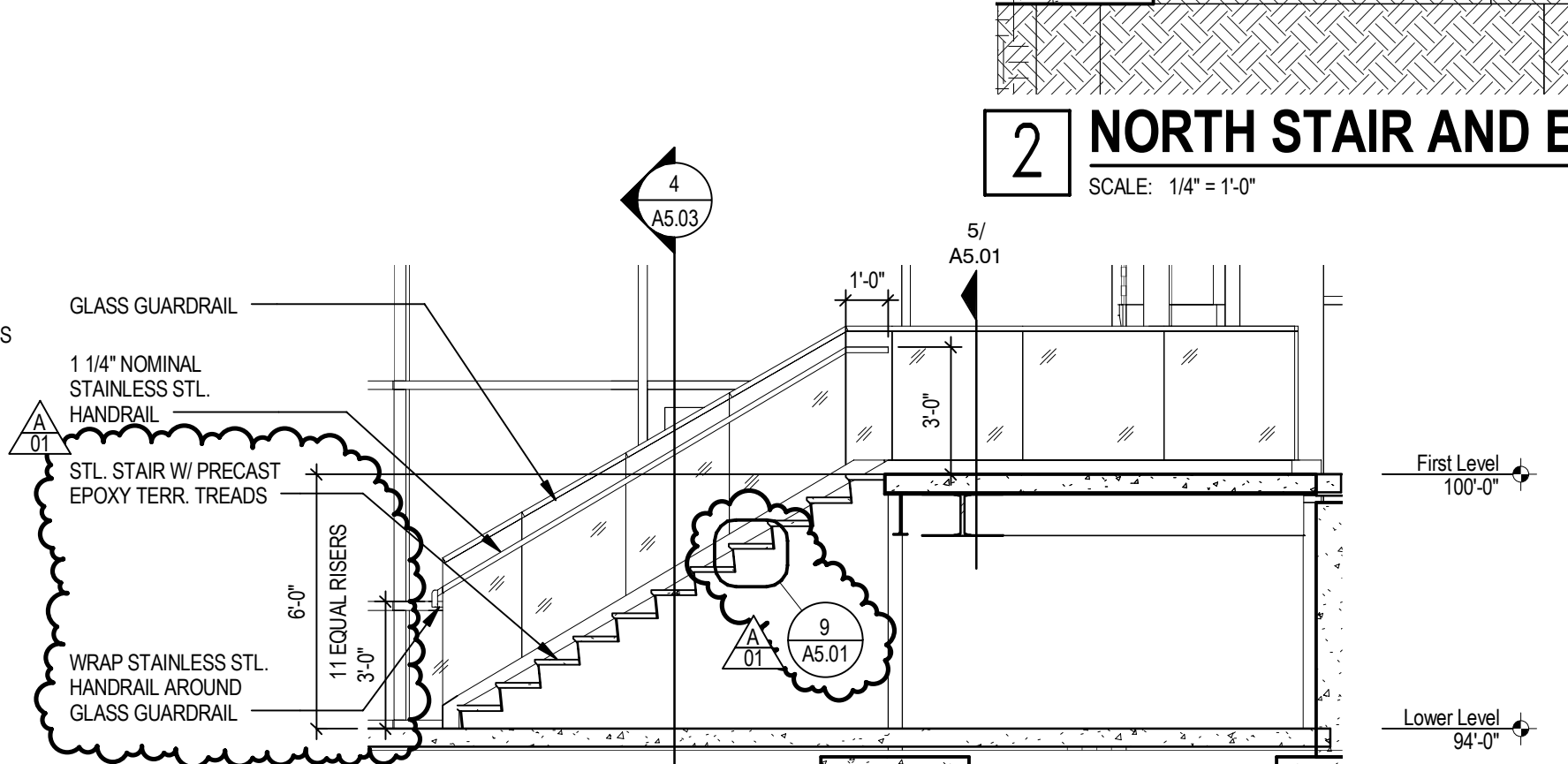
2 NORTH STAIR AND ELEVATOR SECTION
 SCALE: 1/4" = 1'-0"



3 NORTH STAIR SECTION
 SCALE: 1/4" = 1'-0"



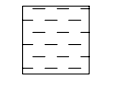



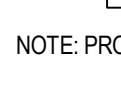
4 LOBBY STAIR SECTION
 SCALE: 1/4" = 1'-0"



5 LOBBY STAIR SECTION
 SCALE: 1/4" = 1'-0"

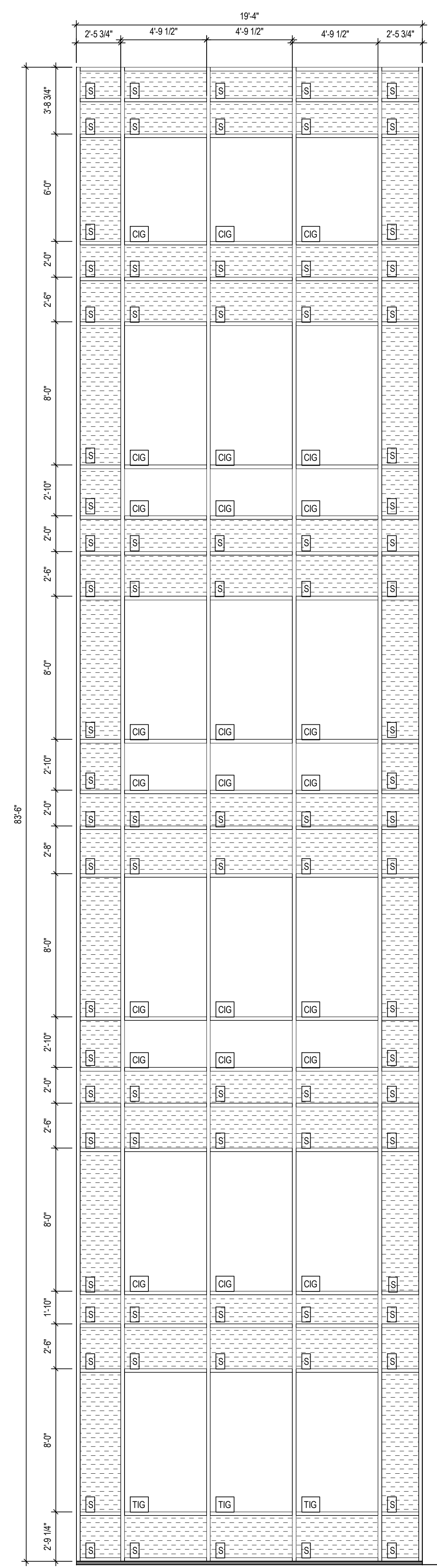
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GLAZING TYPE LEGEND

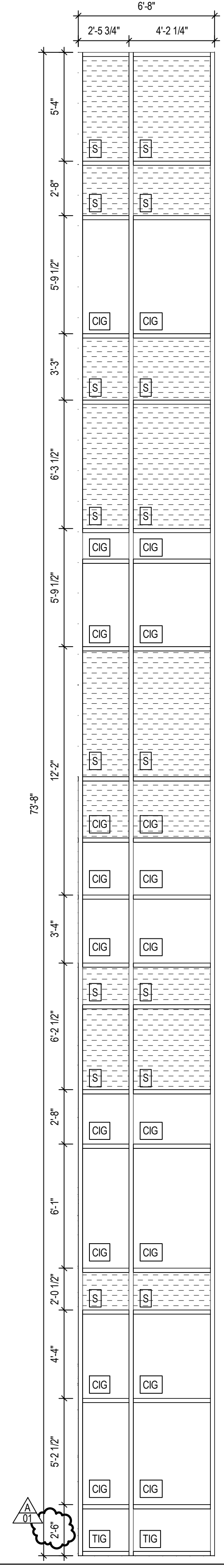
-  SPANDREL GLAZING
-  CLEAR GLASS
-  SINGLE PANE TEMPERED GLAZING
-  CLEAR INSULATED GLASS / LOW-E COATING
-  TEMPERED INSULATED GLASS

NOTE: PROVIDE GLAZING TYPE AS INDICATED, REF.: SPECS.

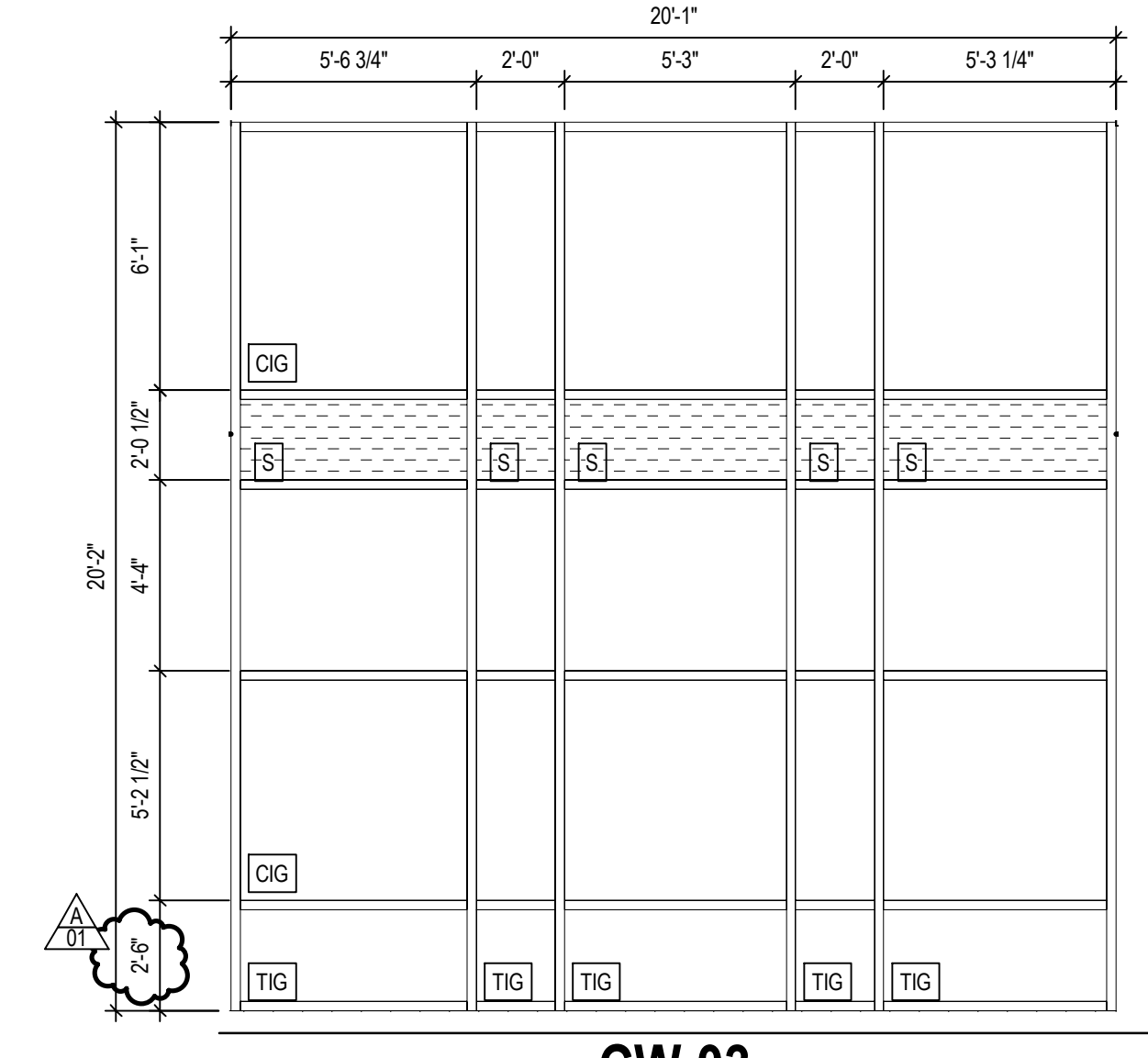
GENERAL NOTE:
 PROVIDE PREFINISHED BRAKE METAL, COLOR TO MATCH CURTAINWALL FRAME @ INTERIOR SIDE OF EXPOSED SPANDREL CURTAINWALL PANEL @ CW-01, CW-02, CW-03, & CW-04.



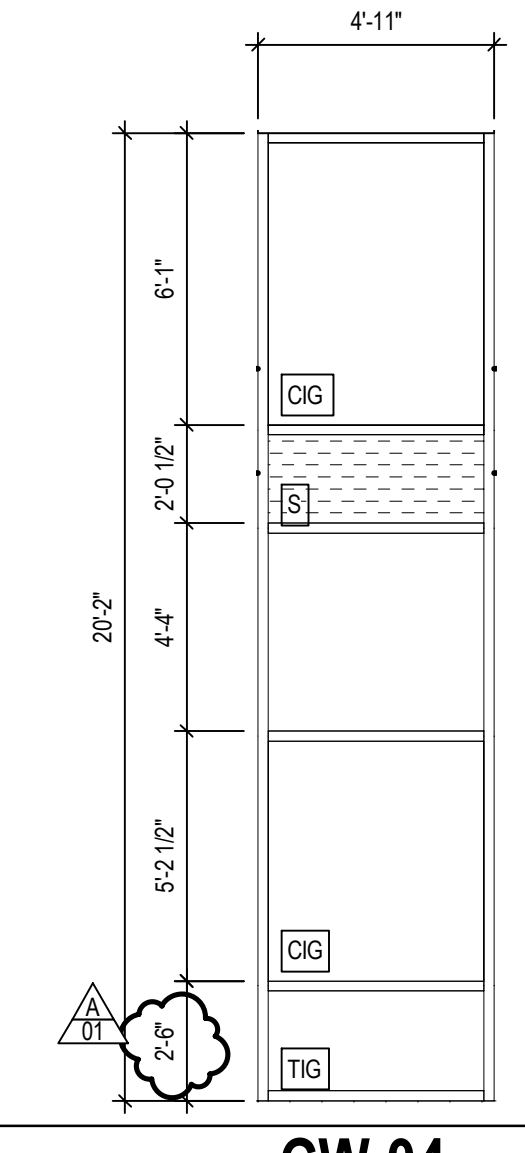
CW-01



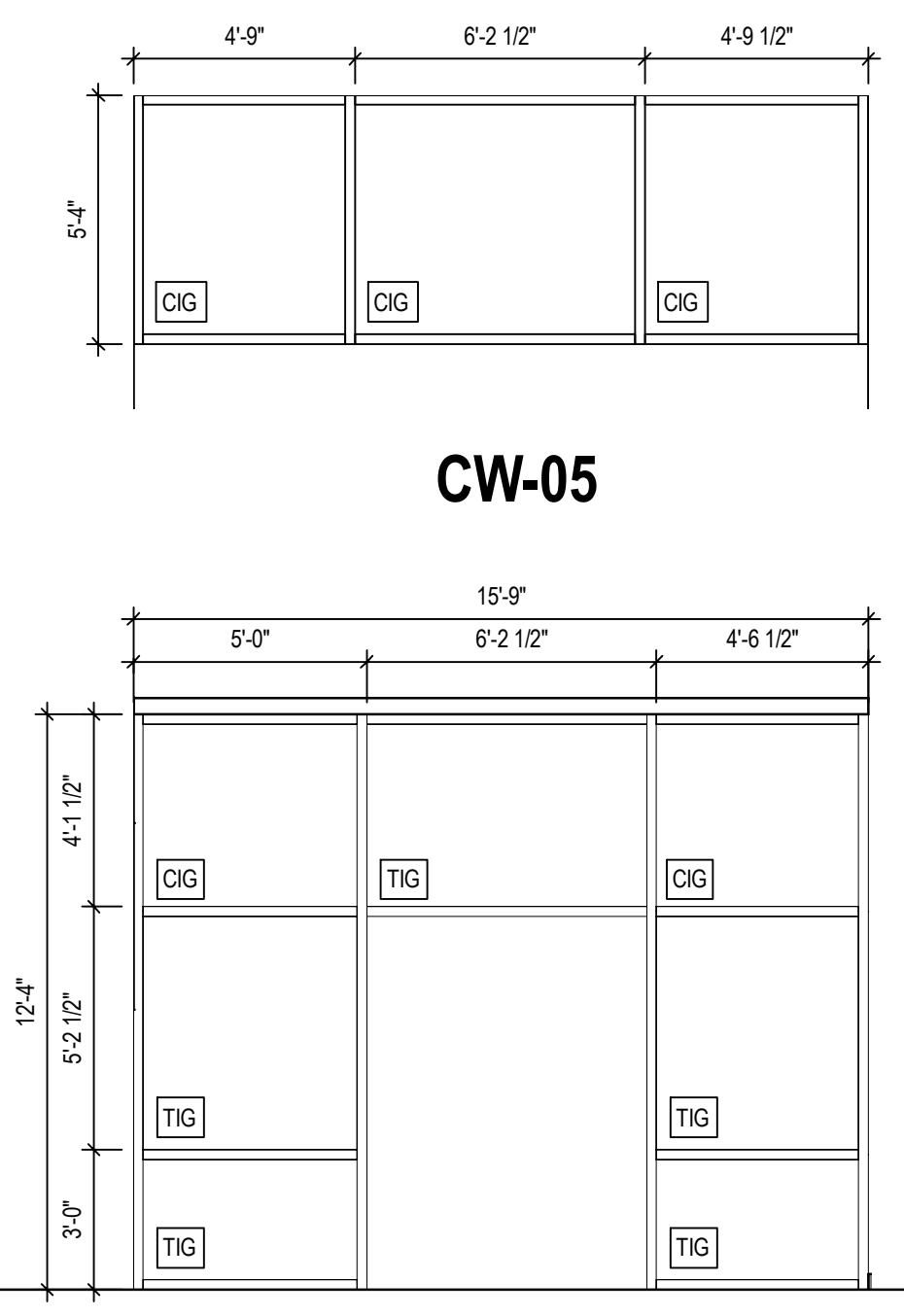
CW-02



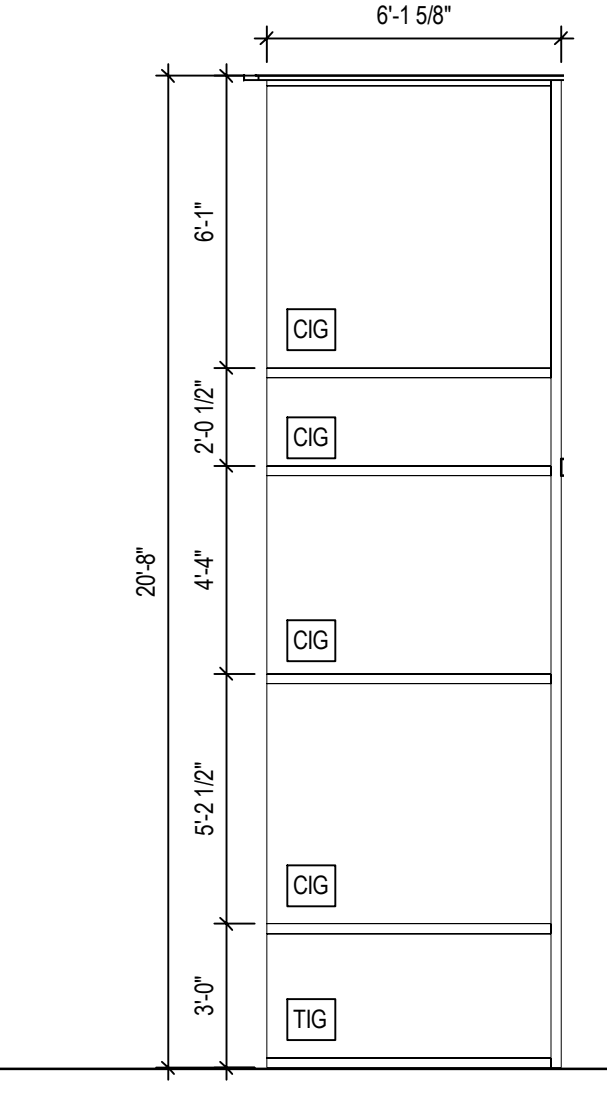
CW-03



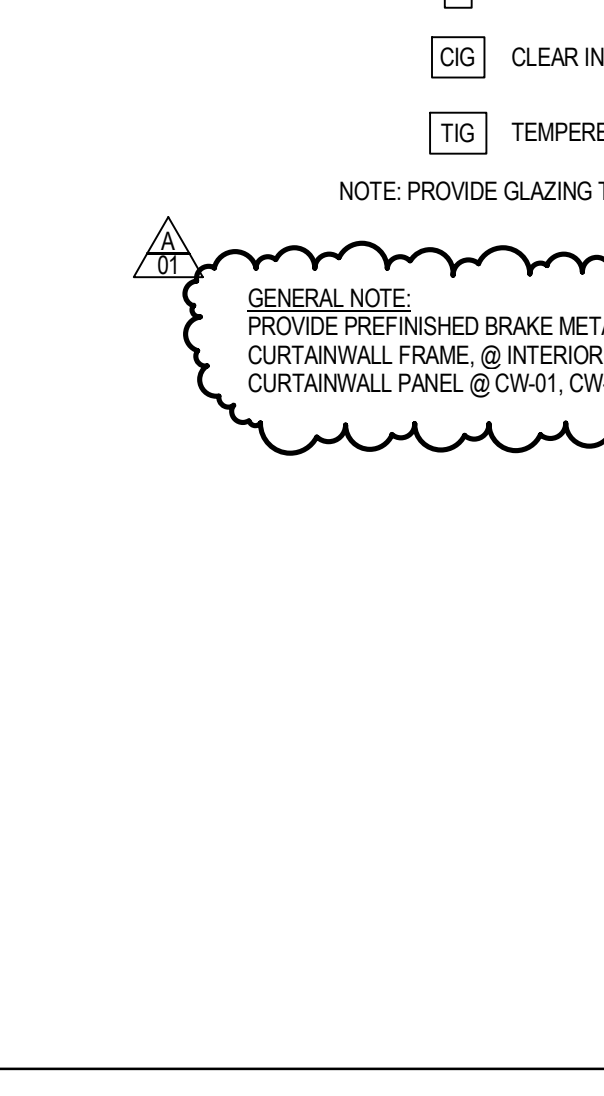
CW-04



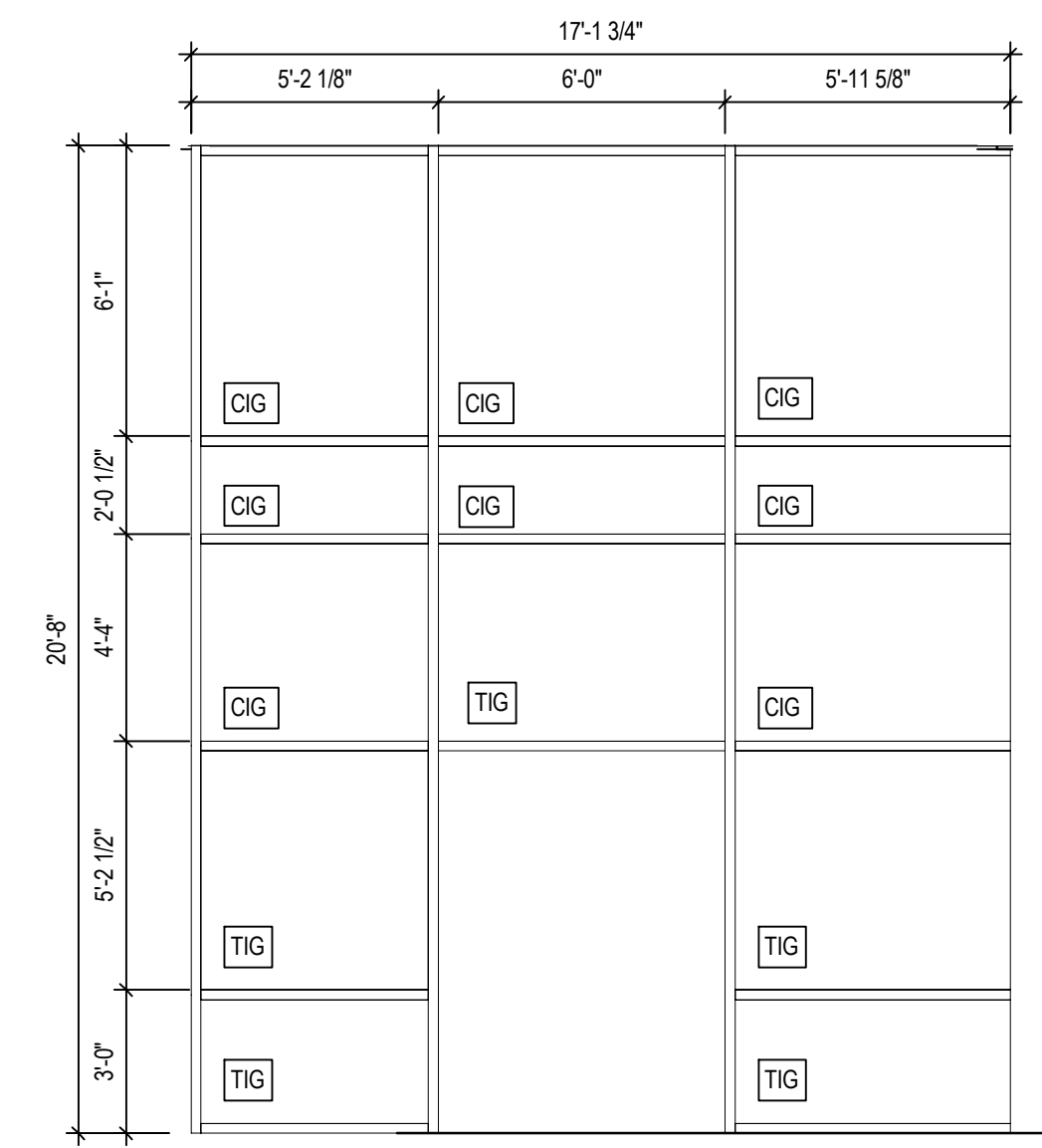
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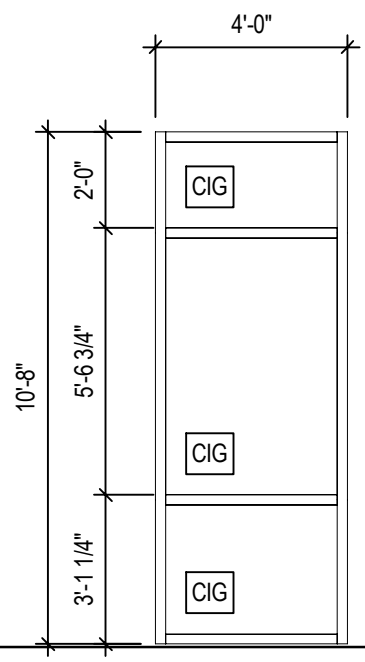
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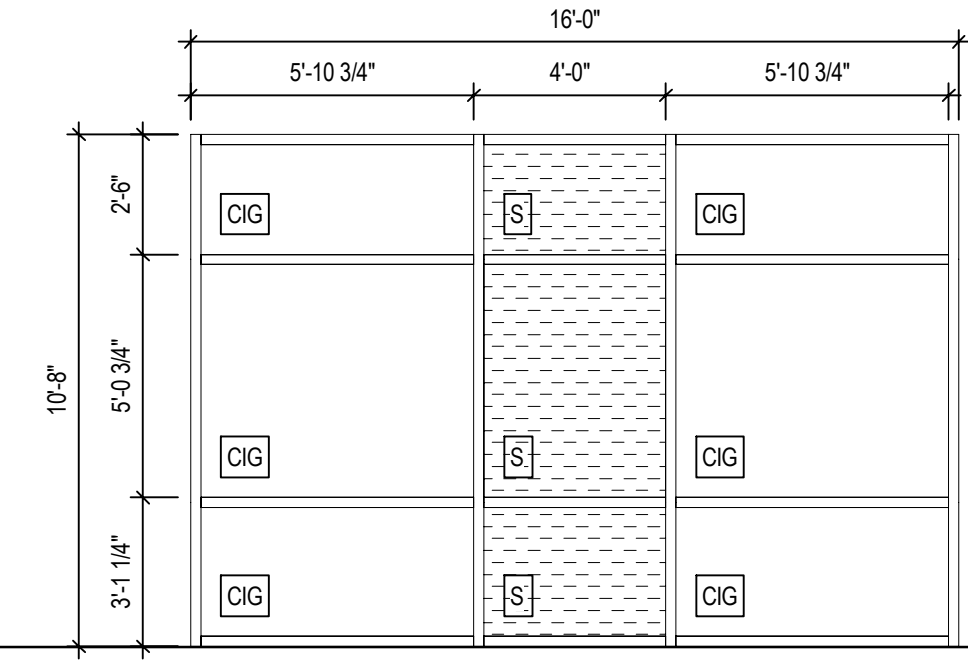
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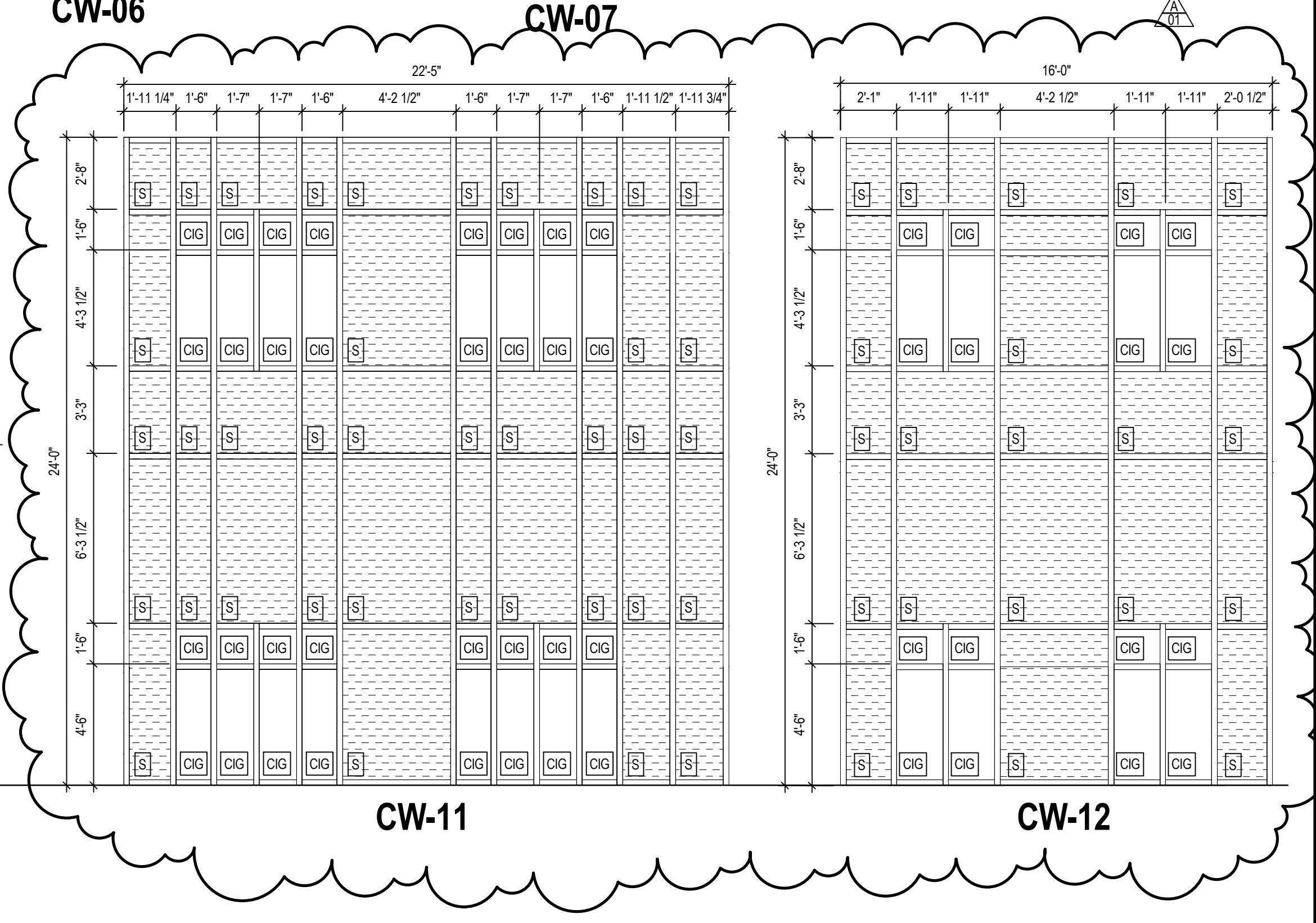
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CW-09

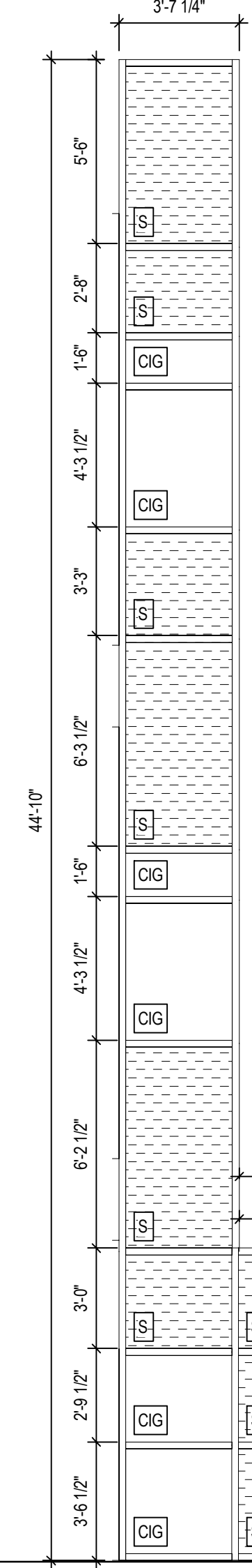


CW-10

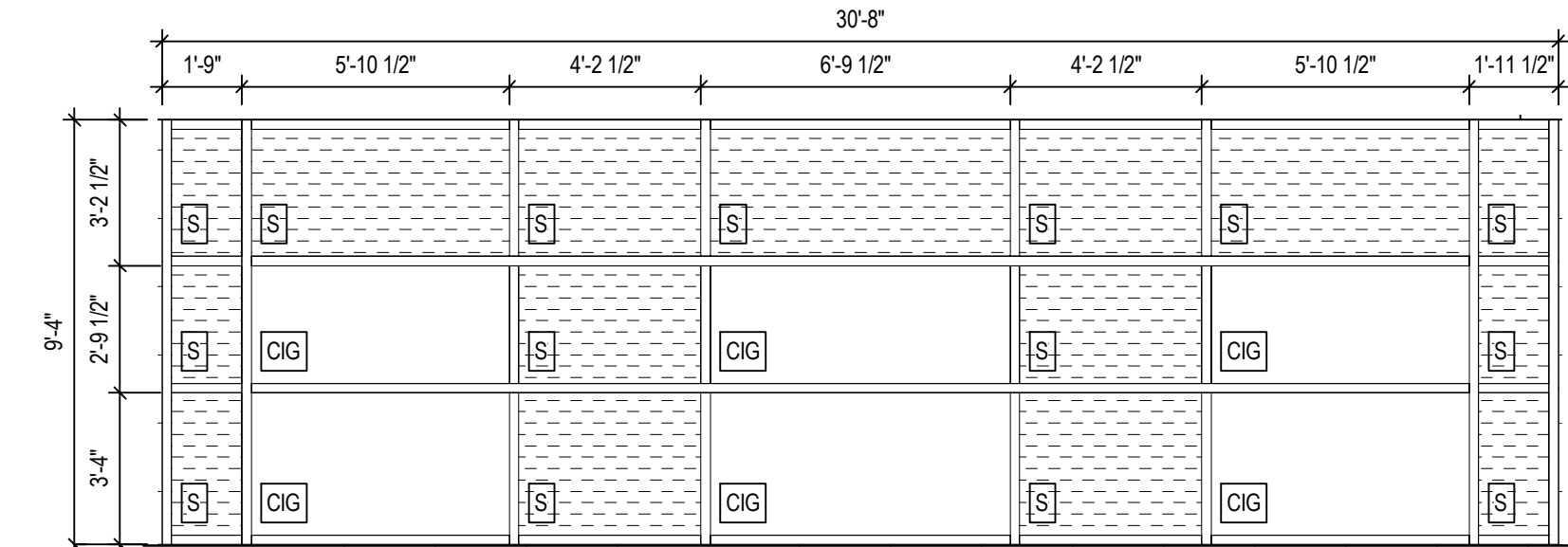


CW-11

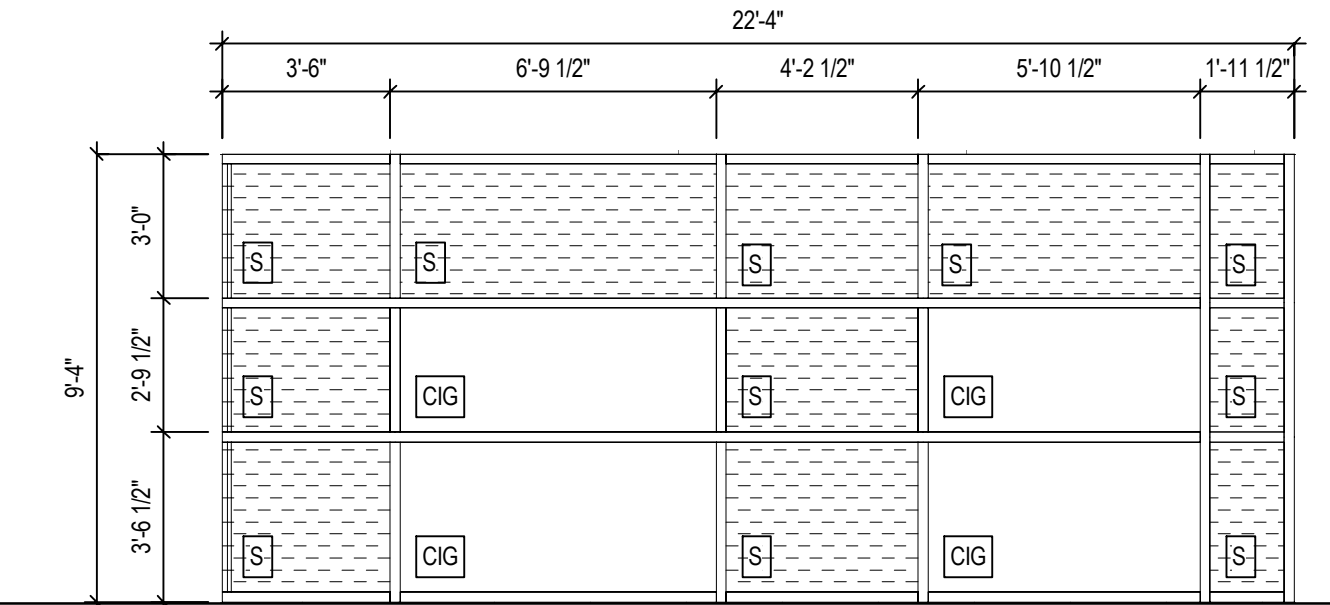
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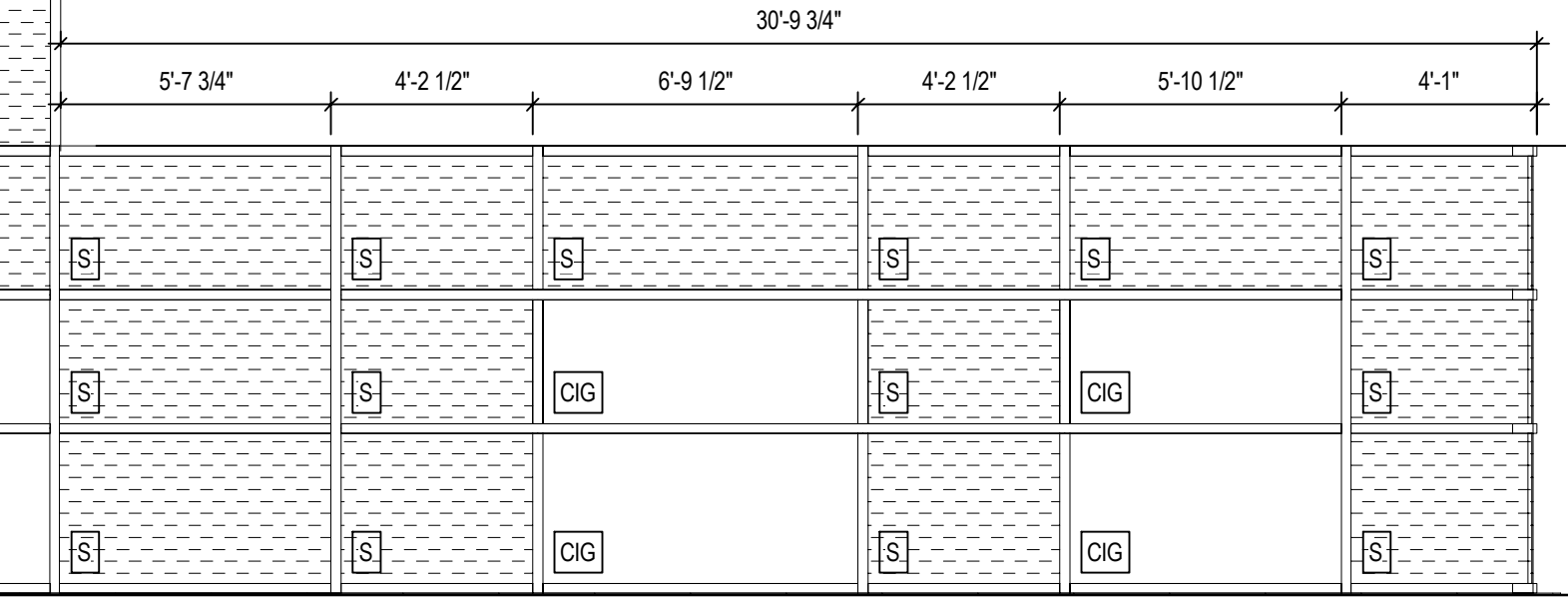
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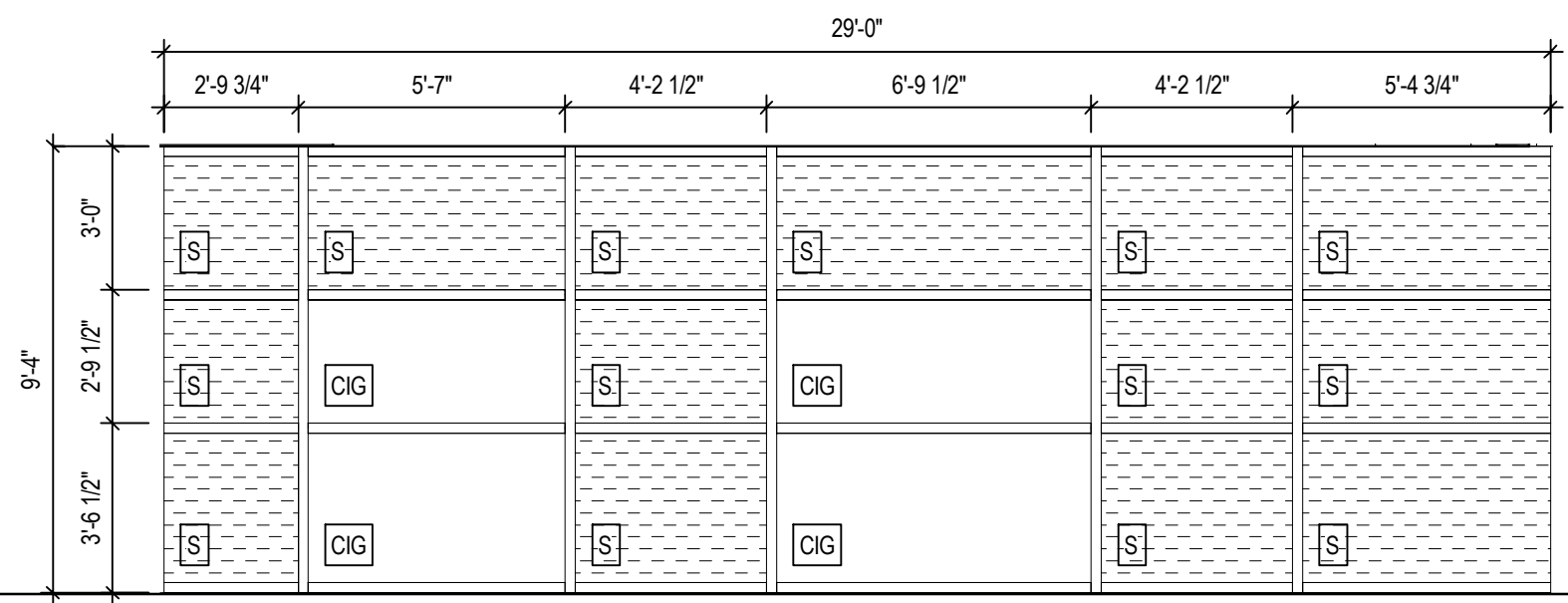
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CW-15

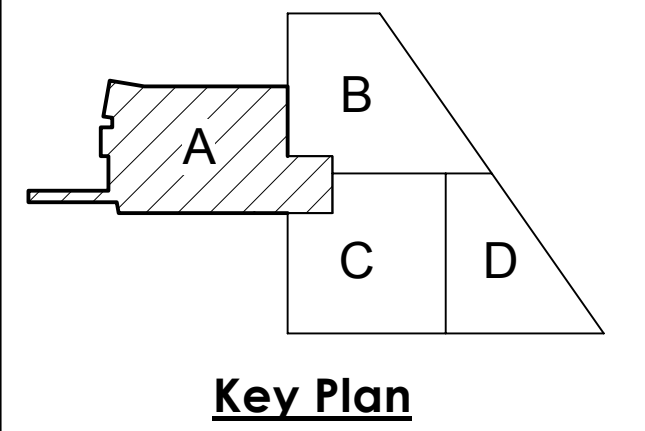


CW-16



CW-17

SHEET HISTORY:
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


Key Plan

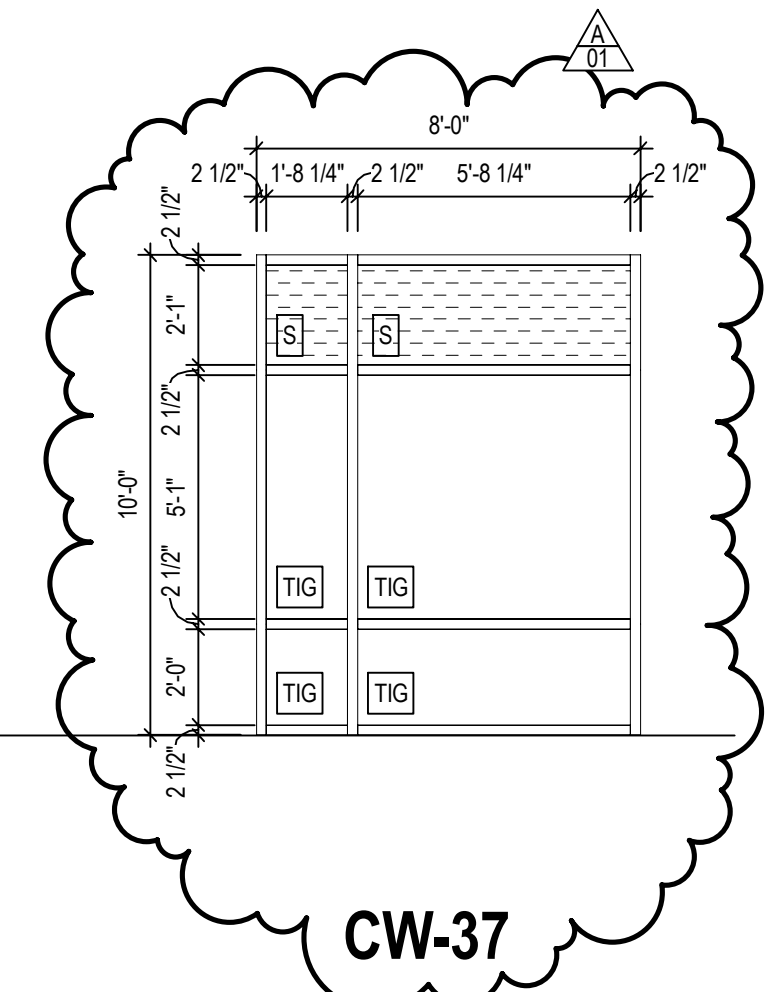
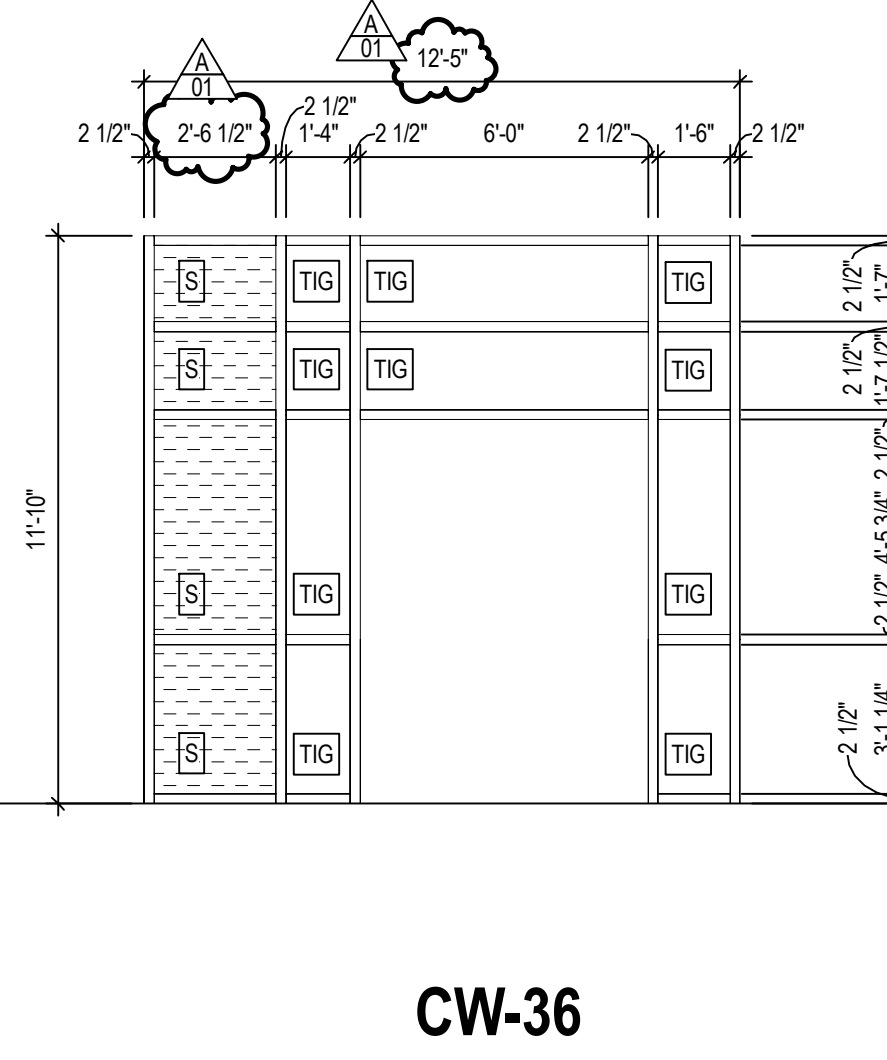
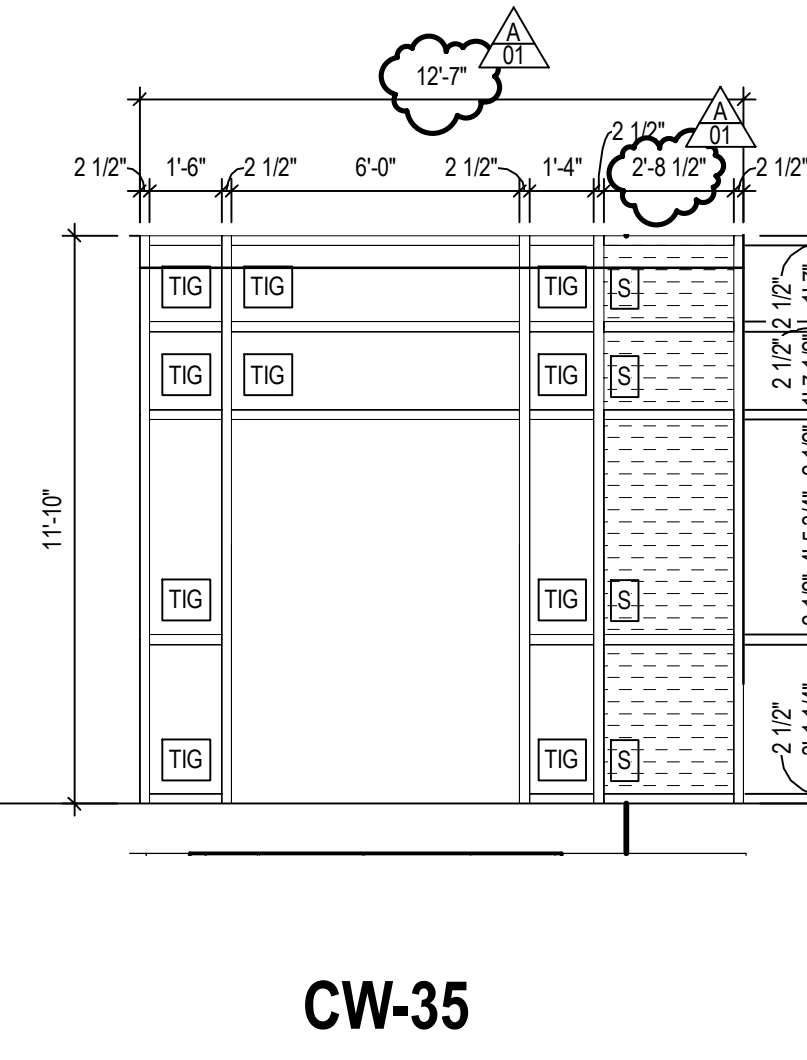
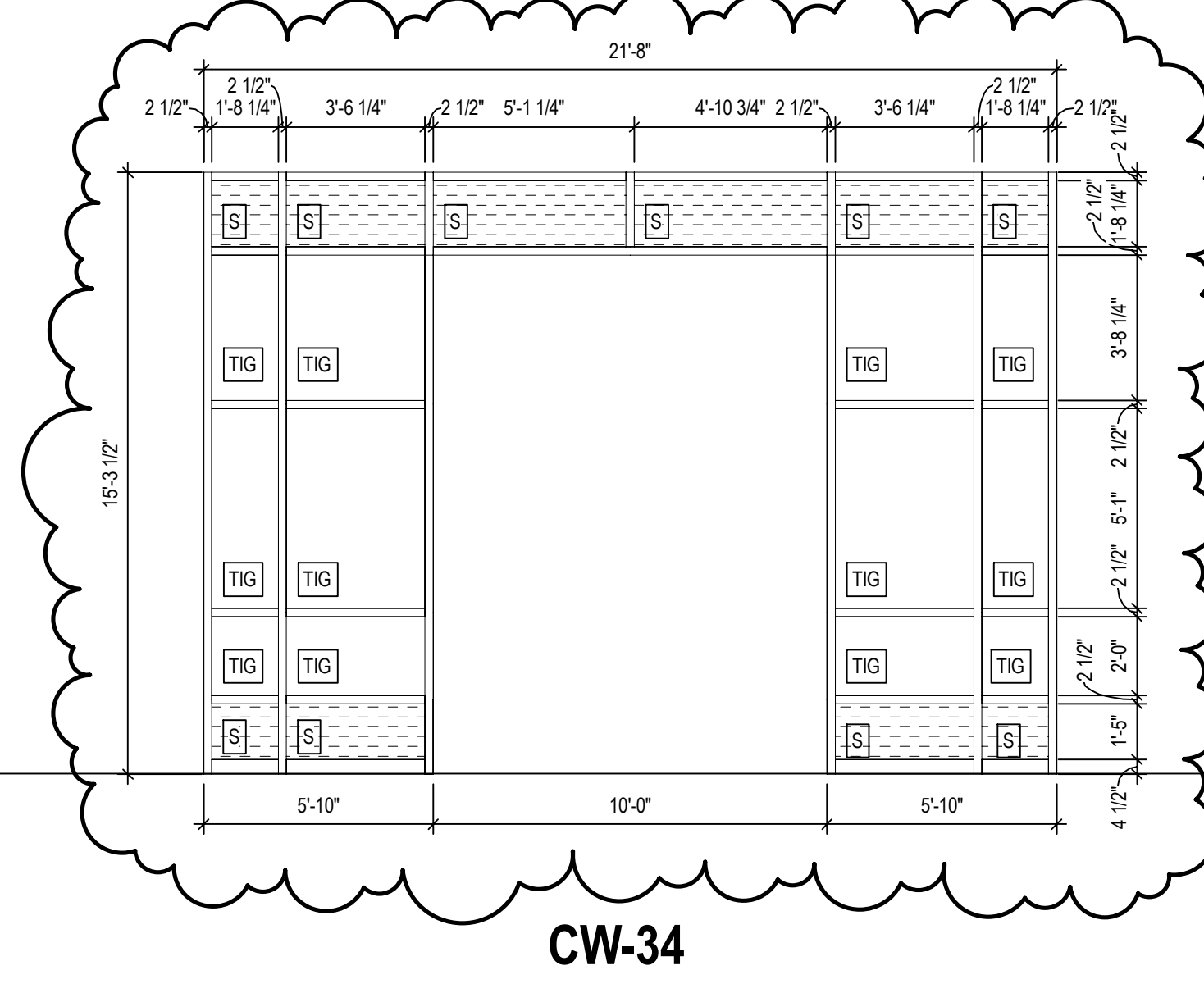
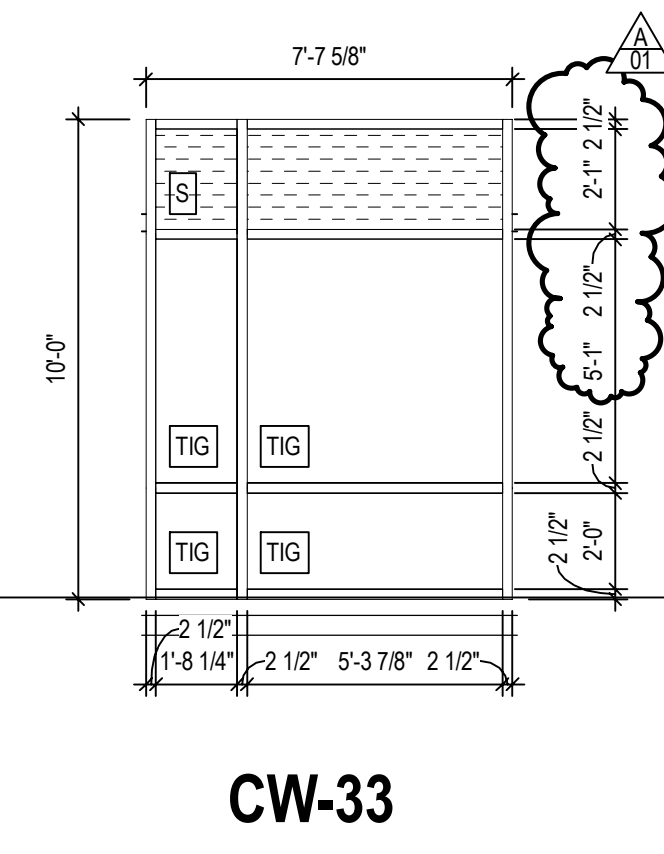
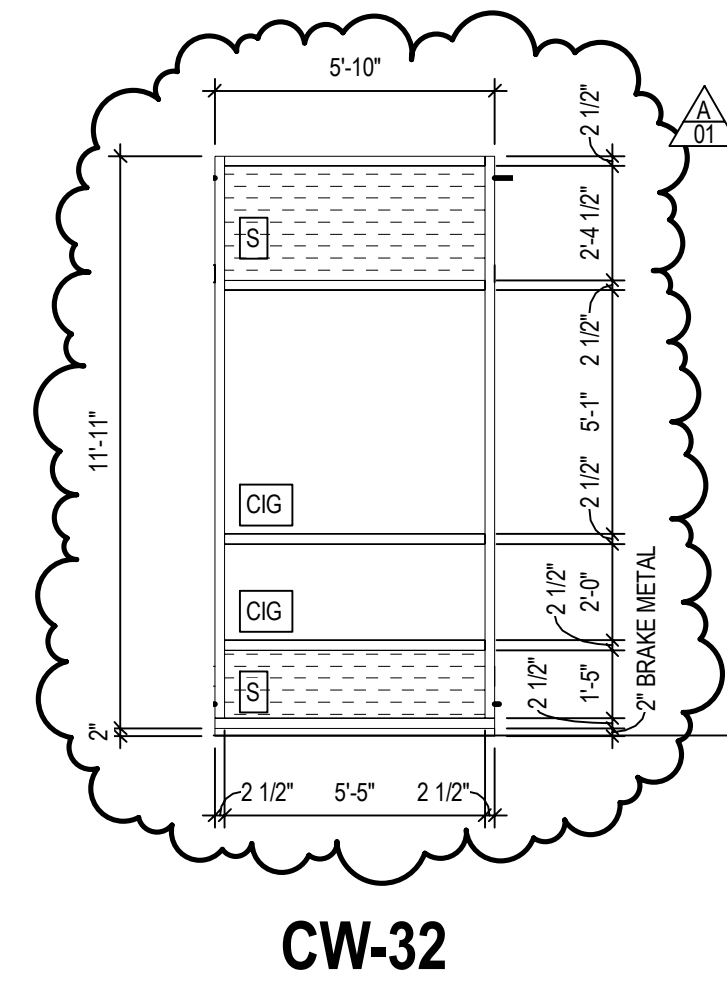
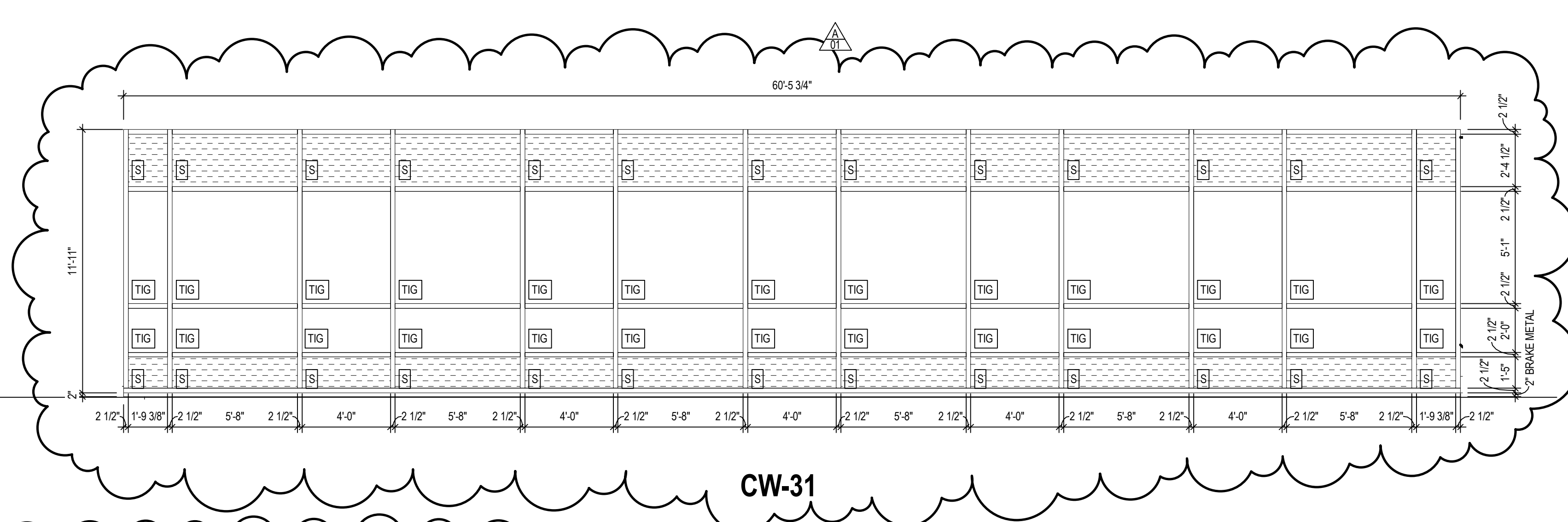
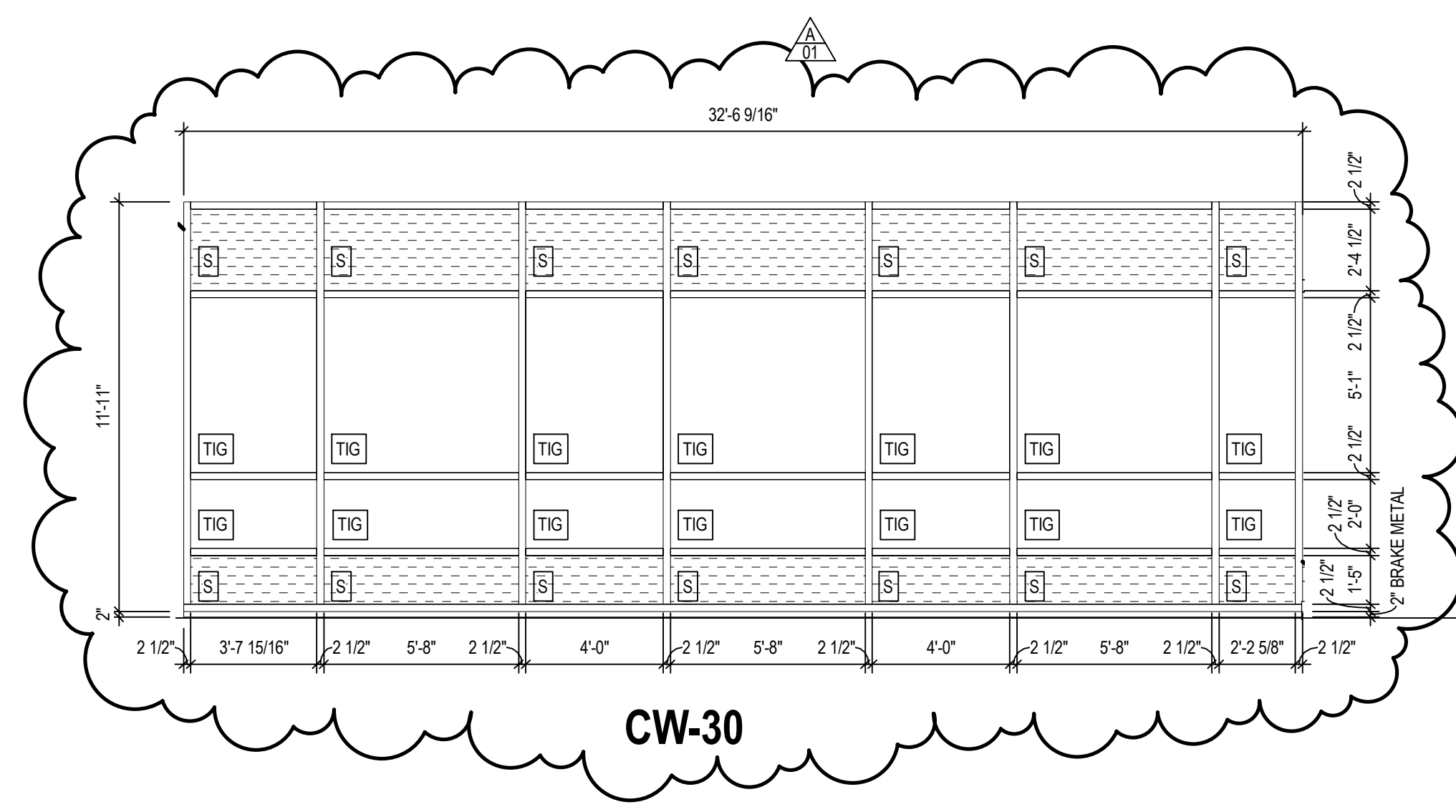
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GLAZING TYPE LEGEND

-  SPANDREL GLAZING
-  CLEAR GLASS
-  SINGLE PANE TEMPERED GLAZING
-  CLEAR INSULATED GLASS / LOW-E COATING
-  TEMPERED INSULATED GLASS

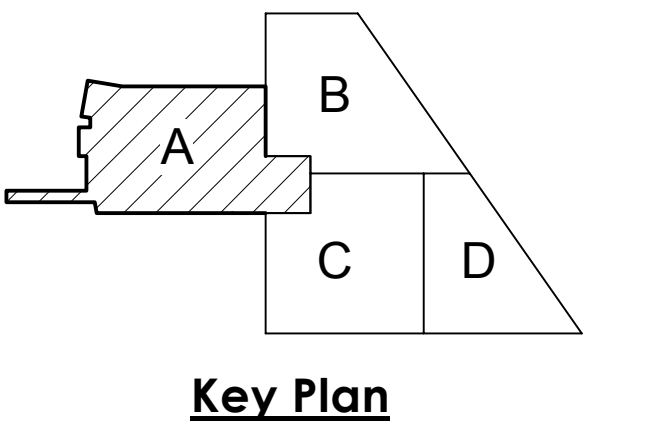
NOTE: PROVIDE GLAZING TYPE AS INDICATED, REF. SPECS.
 NOTE: TEMPERED INSULATED GLASS ON THE SKYWALK AT CW-30 & 31 SHALL BE FRITTED GLASS. SEE SPEC. FOR FRIT PATTERN



SKYWALK FRAME TYPES

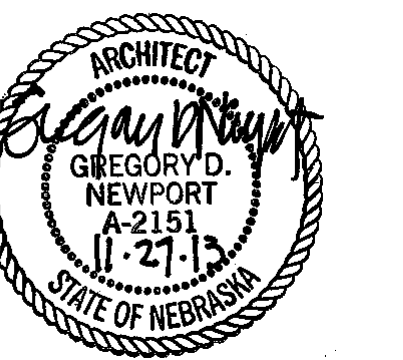
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KEY PLAN
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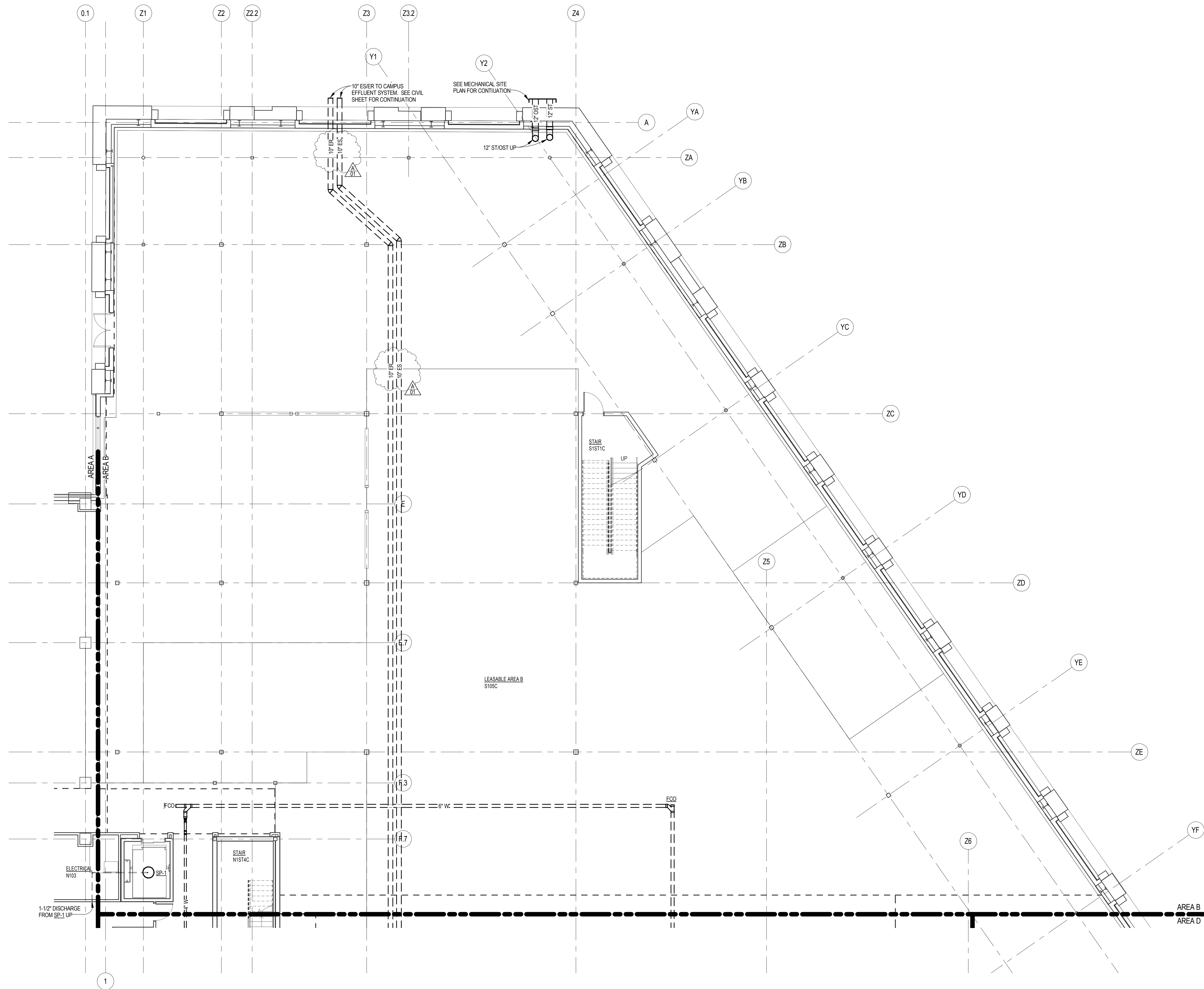
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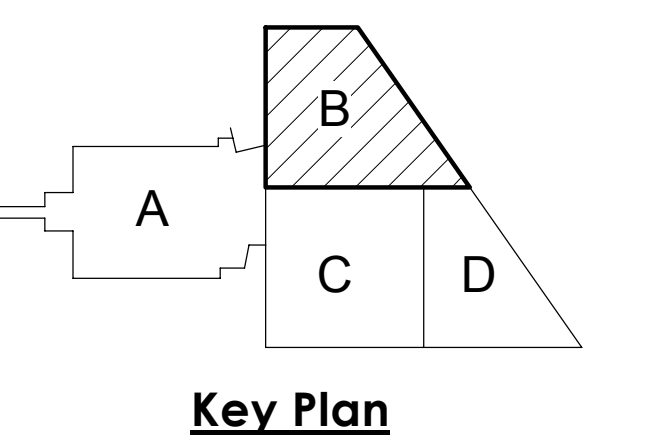


Exterior Skywalk Frame Types - Area A

A6.04



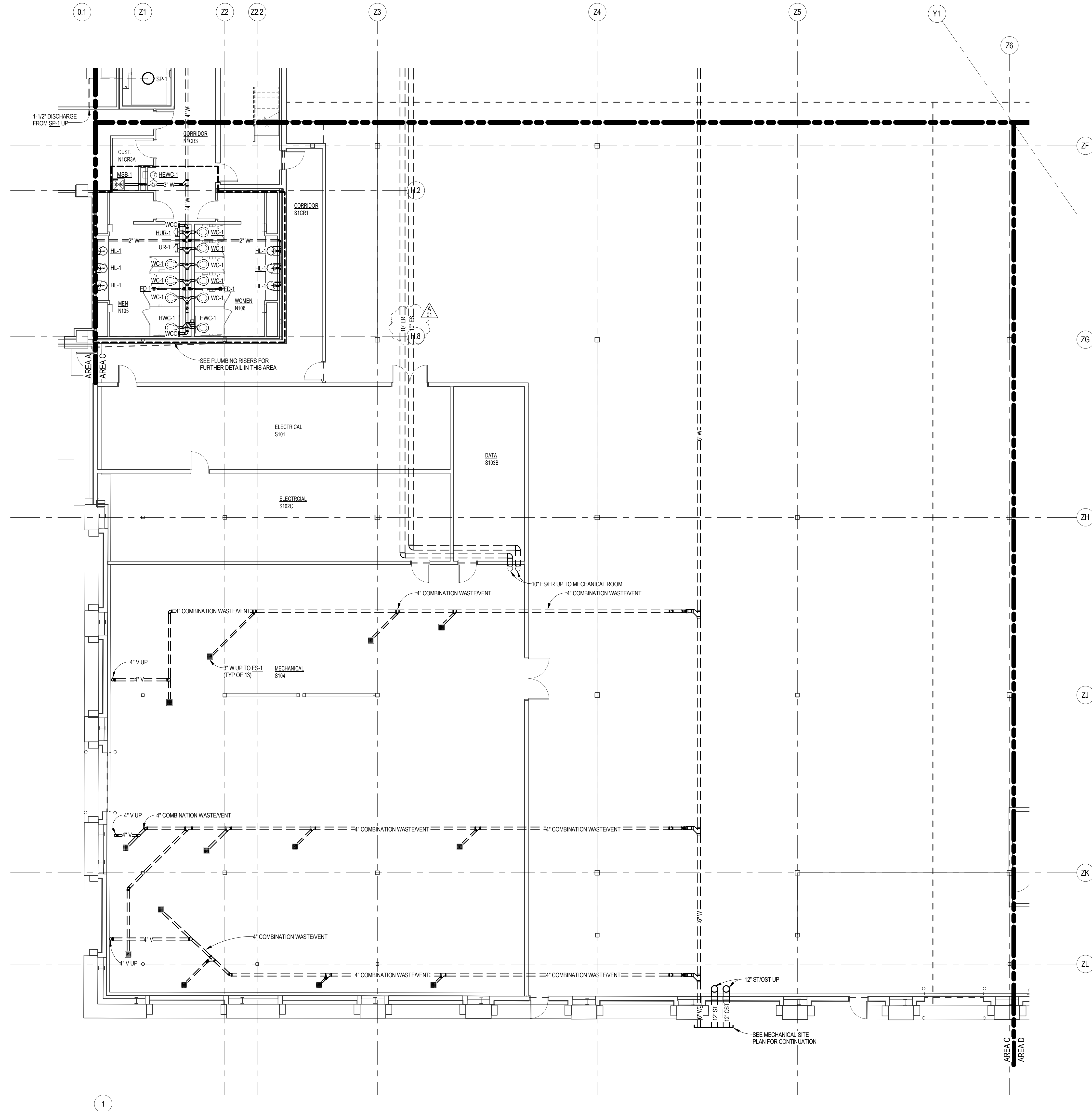
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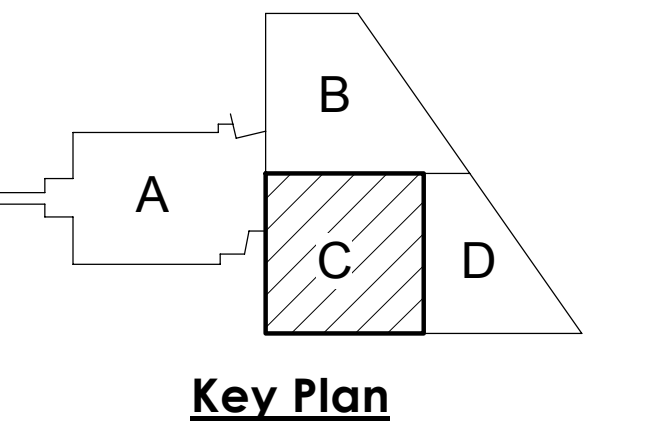
BELOW FLOOR PLUMBING PLAN - AREA B
SCALE: 1/8" = 1'-0"



BELOW FLOOR PLUMBING PLAN - AREA C
 SCALE: 1/8" = 1'-0"

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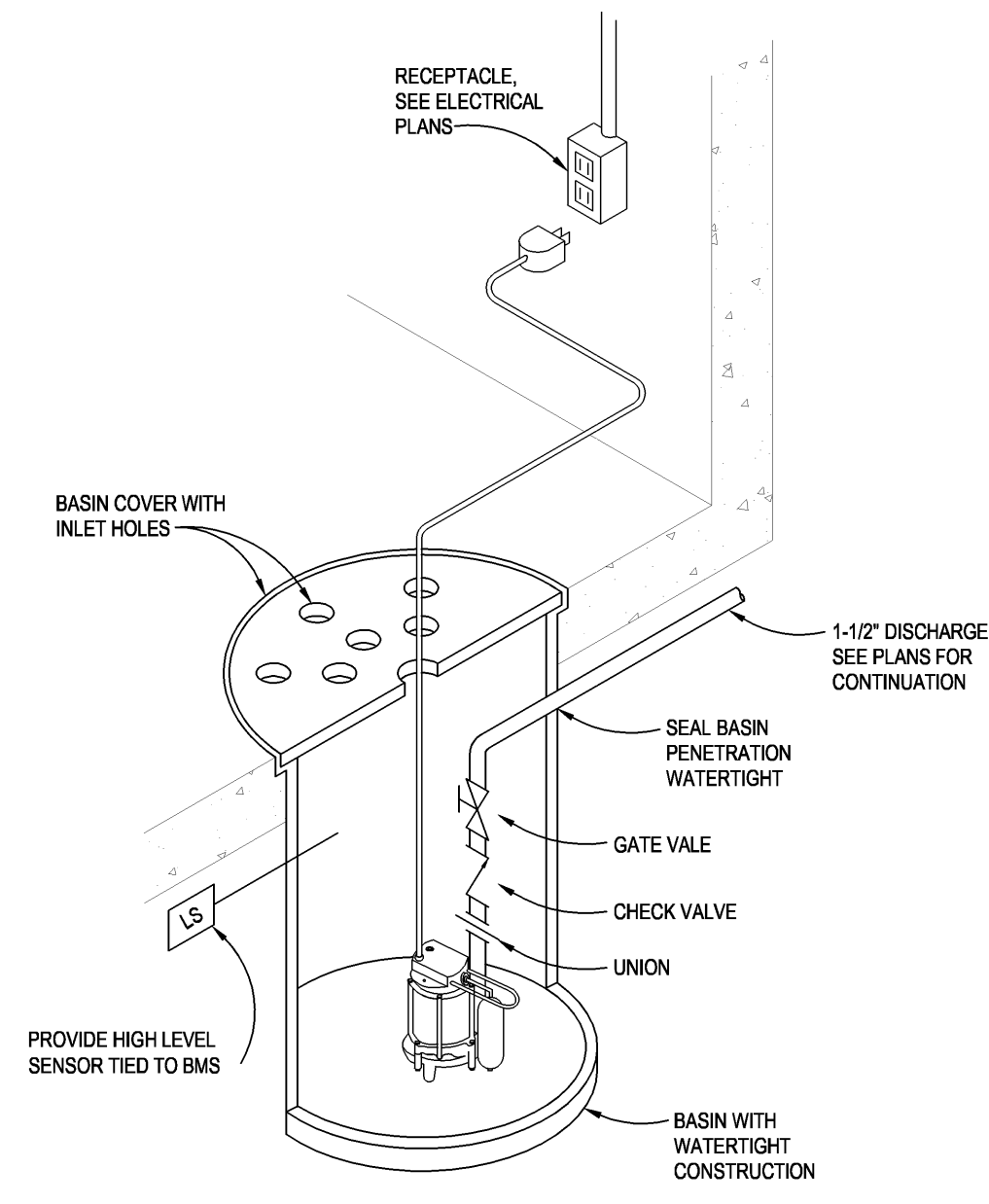
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| ISSUED | 11/27/2013 | AS PER CONSTRUCTION DOCUMENTS |
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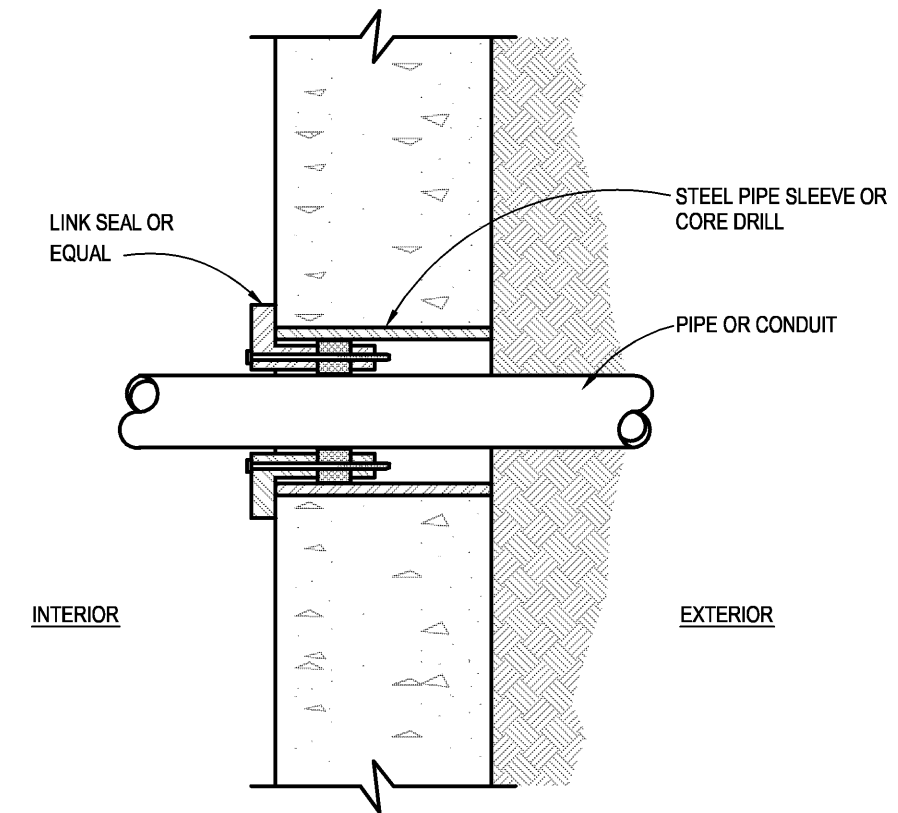


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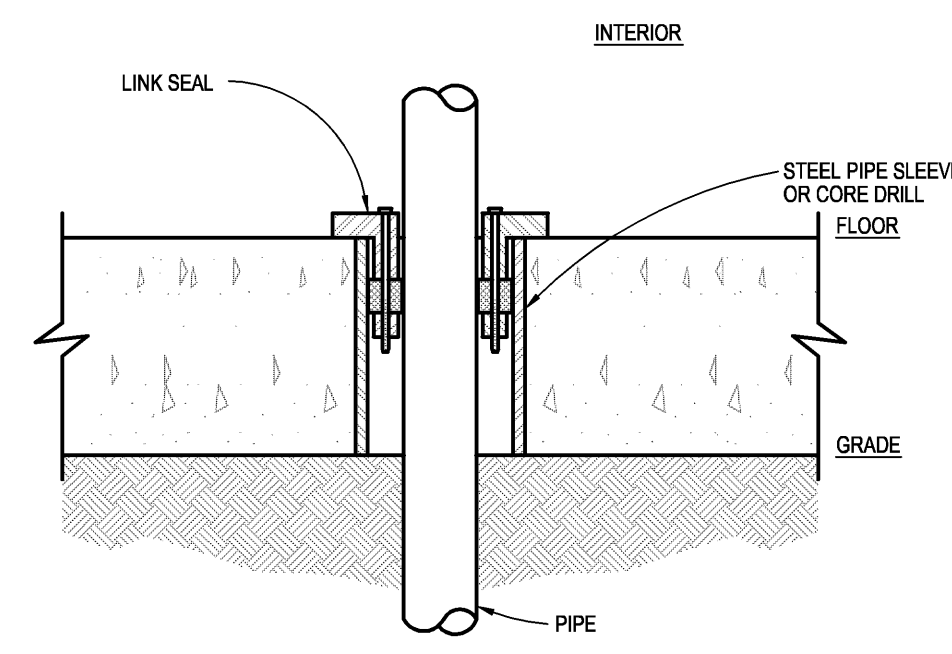
1 SUMP PUMP

NO SCALE



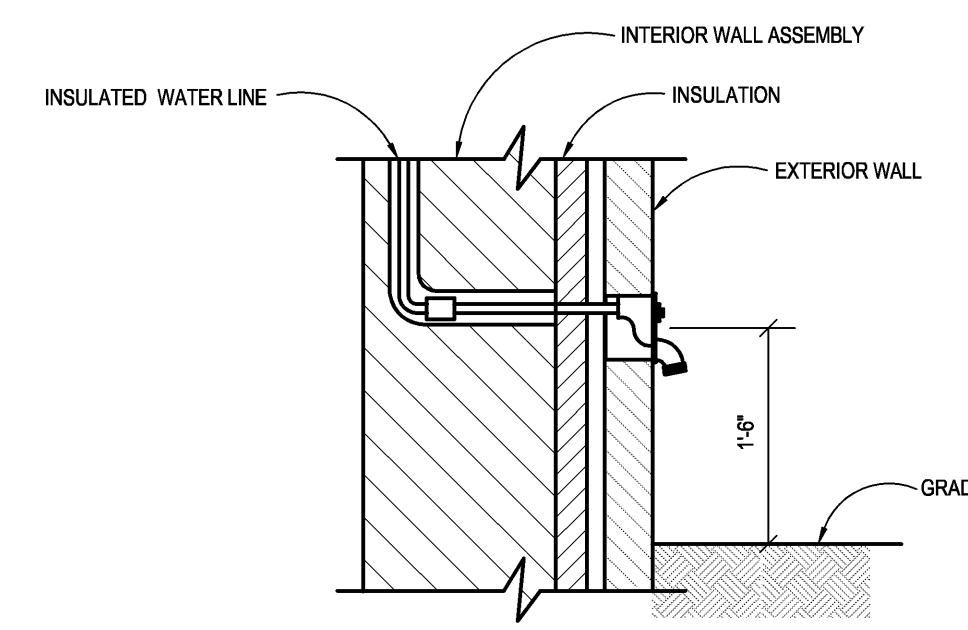
2 SLEEVE/SEAL THRU WALL BELOW GRADE

NO SCALE



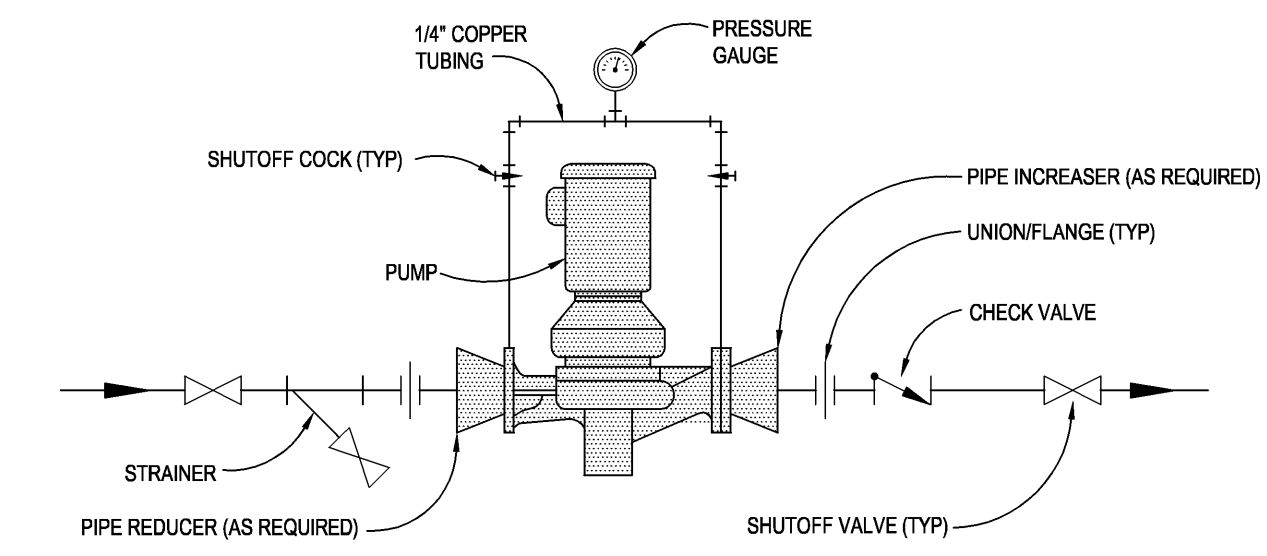
3 SLEEVE/SEAL AT FLOOR

NO SCALE



4 WALL HYDRANT

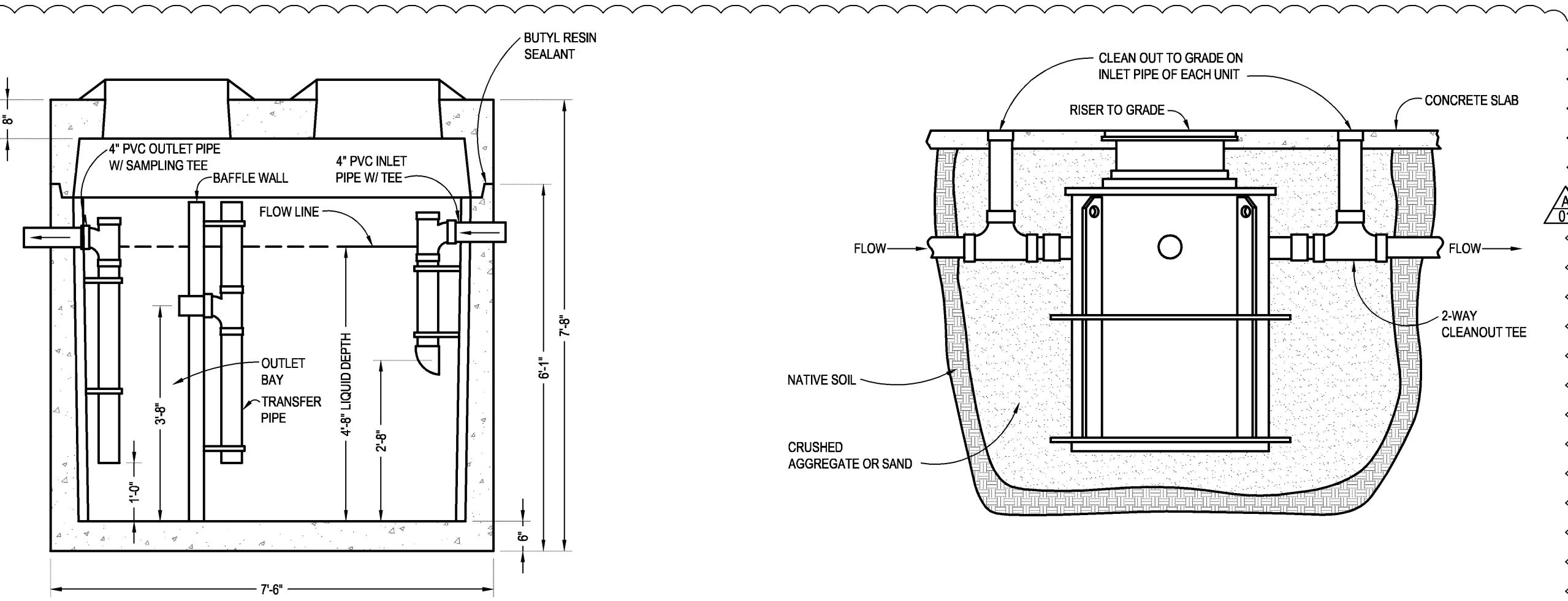
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5 INLINE RECIRCULATING PUMP

NO SCALE

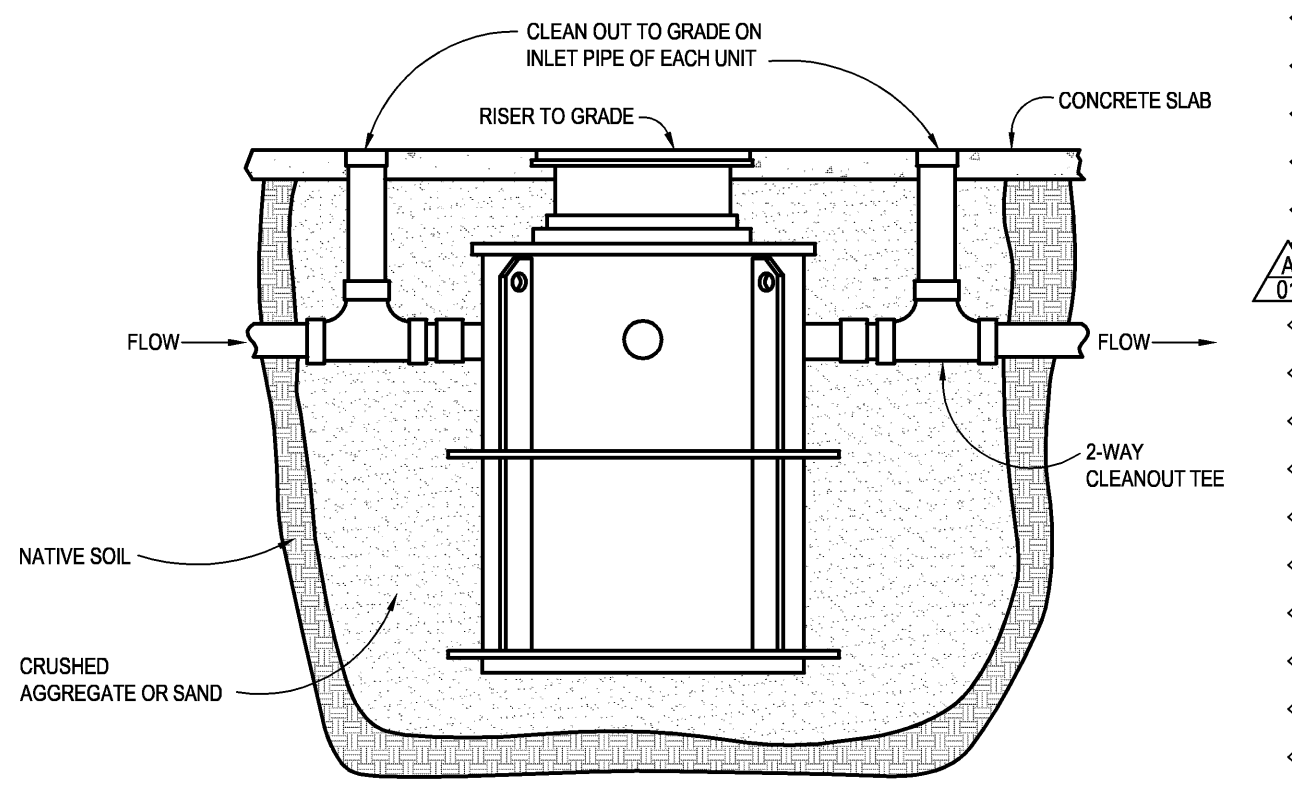
NOTES:
1. SUPPORT PUMP INDEPENDENTLY OF PIPING.



6 GREASE INTERCEPTOR

NO SCALE

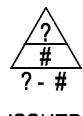
NOTES:
1. UNIT SHALL BE DESIGNED IN ACCORDANCE WITH ASTM C 880 FOR AASHTO H20-44 VEHICLE LOADING.
2. VENTILATE INTERCEPTOR TO OPEN ATMOSPHERE.
3. LEAK TEST PER AFWQ/ANSI Z101-2007 SECTION 1.1.
4. INSTALL PER MANUFACTURERS RECOMMENDATIONS.



7 NEUTRALIZATION TANK

NO SCALE

NOTES:
1. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
2. DO NOT PRESSURE TEST UNIT.



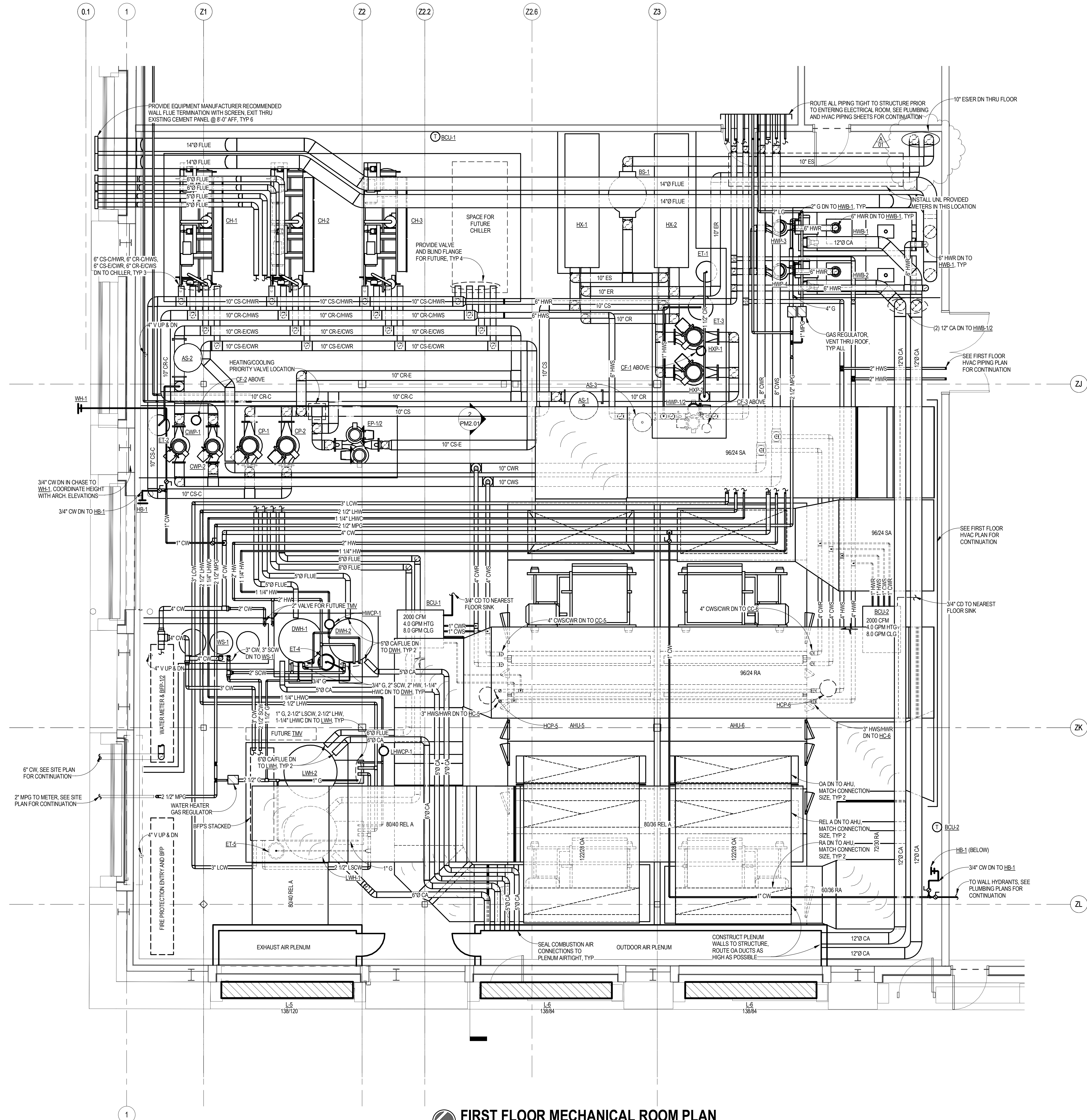
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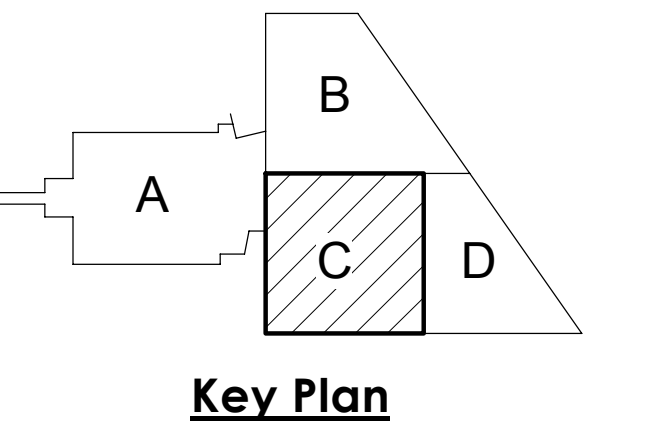
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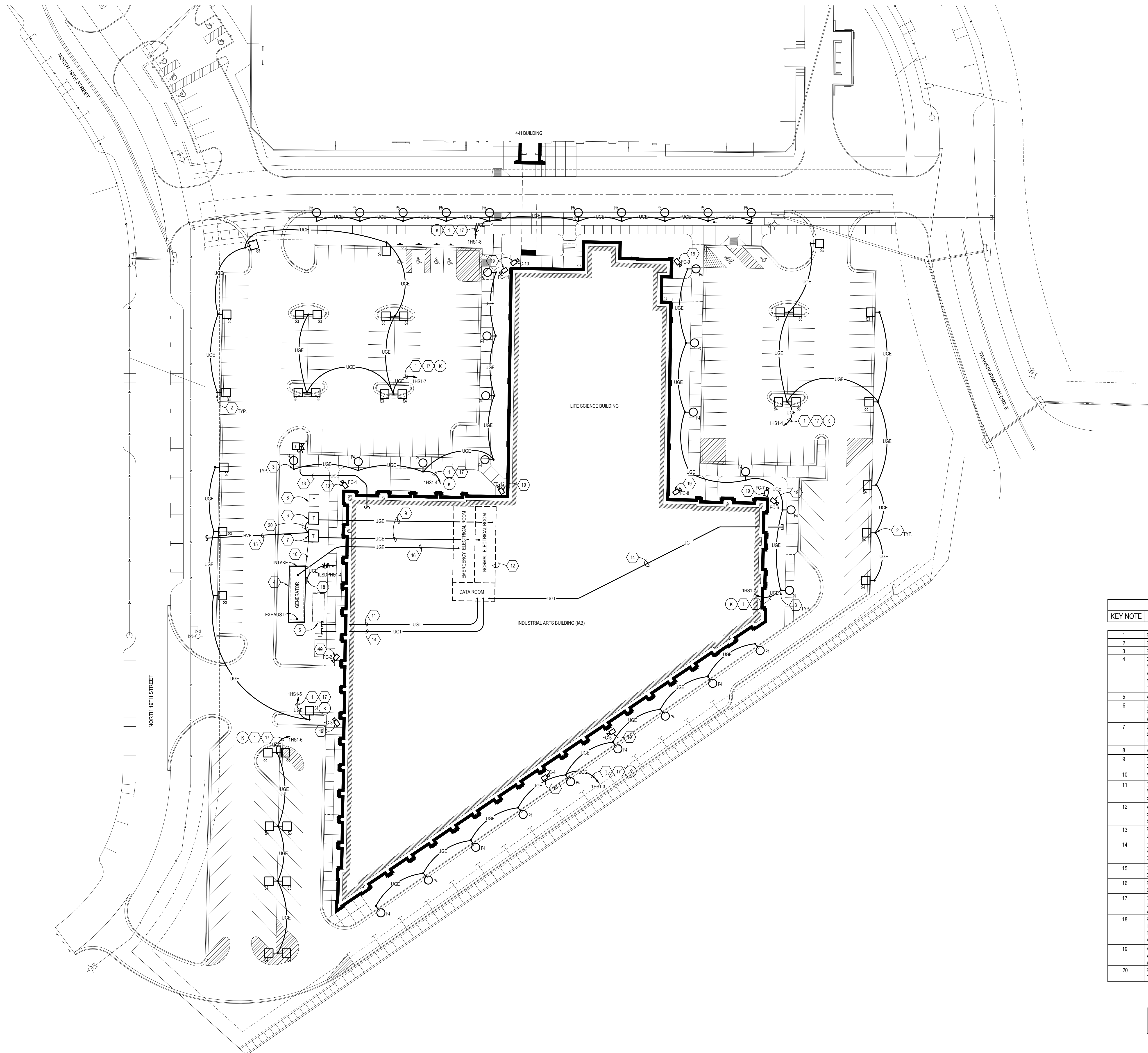


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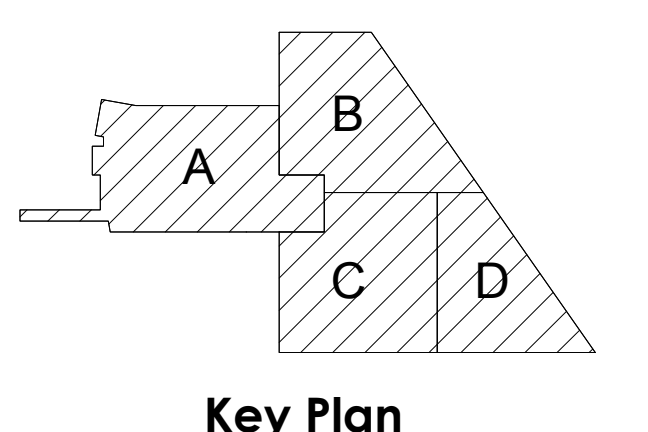


FIRST FLOOR MECHANICAL ROOM PLAN
 SCALE: 1/4" = 1'-0"

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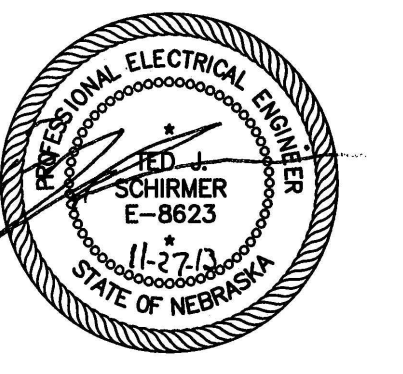


Key Plan

| KEY NOTE | DESCRIPTION |
|----------|--|
| 1 | ROUTE #8 CONDUCTORS IN 1" CONDUIT THROUGHOUT ENTIRE CIRCUIT. |
| 2 | SEE THE SITE FIXTURE POLE BASE DETAIL FOR ADDITIONAL INFORMATION. |
| 3 | SEE THE PEDESTRIAN FIXTURE POLE BASE DETAIL FOR ADDITIONAL INFORMATION. |
| 4 | GENERATOR: SEE THE ONE LINE DIAGRAM - EMERGENCY SOUTH BUILDING FOR ADDITIONAL INFORMATION. PROVIDE ALL NECESSARY CONTROL CIRCUITS IN CONDUIT FROM THE GENERATOR TO ASSOCIATED AUTOMATIC TRANSFER SWITCHES. IN ADDITION, PROVIDE ALL NECESSARY CIRCUITS IN CONDUIT FOR AUXILIARY GENERATOR LOADS AND DEVICES FROM THE NEAREST LIFE SAFETY BRANCH PANELBOARD. FULLY COORDINATE ALL REQUIREMENTS AND INSTALLATION DETAILS WITH THE GENERATOR SUPPLIER/MANUFACTURER FOR A COMPLETE INSTALLATION. |
| 5 | AREA FOR POTENTIAL FUTURE GENERATOR. |
| 6 | UTILITY TRANSFORMER PROVIDED AND INSTALLED BY THE UTILITY. SEE THE ONE-LINE DIAGRAM - NORMAL - NORTH BUILDING; AND THE TRANSFORMER PAD DETAIL FOR ADDITIONAL INFORMATION. COORDINATE EXACT REQUIREMENTS WITH LES. |
| 7 | UTILITY TRANSFORMER PROVIDED AND INSTALLED BY THE UTILITY. SEE THE ONE-LINE DIAGRAM - NORMAL - SOUTH BUILDING; AND THE TRANSFORMER PAD DETAIL FOR ADDITIONAL INFORMATION. COORDINATE EXACT REQUIREMENTS WITH LES. |
| 8 | AREA FOR POTENTIAL FUTURE UTILITY TRANSFORMER. |
| 9 | SECONDARY SERVICE ENTRANCE CONDUCTORS. SEE THE ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION. COORDINATE ALL ROUTING AND DETAILS WITH LES. |
| 10 | MAINTAIN A MINIMUM OF 10'-0" BETWEEN THE GENERATOR SET AND THE PAD MOUNTED TRANSFORMERS. |
| 11 | (2) - 3" CONDUITS FOR TELEPHONE AND TELEVISION UTILITIES FROM MAIN BUILDING DATA ROOM. ROUTE CONDUITS A MINIMUM OF 42" BELOW GRADE AND STUB AND CAP UNDERGROUND 10'-0" OUTSIDE OF THE BUILDING. COORDINATE EXACT STUB LOCATION WITH THE TELEPHONE AND TELEVISION COMPANIES. |
| 12 | APPROXIMATE LOCATIONS OF THE MAIN ELECTRICAL AND DATA ROOMS. SEE THE ELECTRICAL POWER & AUXILIARY SYSTEMS PLANS AND THE ENLARGED ELECTRICAL ROOM PLANS FOR ADDITIONAL INFORMATION AND LOCATION OF EQUIPMENT. |
| 13 | PROVIDE MONITORING OF POST INDICATOR VALVE (PIV) AT THE FIRE ALARM CONTROL PANEL. COORDINATE THE EXACT LOCATION OF PIV WITH MECHANICAL CONTRACTOR. |
| 14 | (2) - 4" CONDUITS FOR UNL FIBER/OPTICAL COMMUNICATIONS CABLING FROM MAIN BUILDING DATA ROOM. PROVIDE NECESSARY HANDHOLES REQUIRED DUE TO LENGTH/IRECTION OF CONDUIT ROUTING. STUB AND CAP UNDERGROUND 10'-0" OUTSIDE OF THE BUILDING. SEE THE CIVIL SHEETS FOR ADDITIONAL INFORMATION. |
| 15 | CONDUIT(S) FOR LES PRIMARY CABLING. CONDUIT PROVIDED BY LES. INSTALLED AS NECESSARY BY ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION SCOPE, ROUTING AND TERMINATION DETAILS WITH LES. |
| 16 | EMERGENCY/STANDBY SERVICE ENTRANCE FEEDERS. SEE THE ELECTRICAL ONE LINE DIAGRAM - EMERGENCY - SOUTH BUILDING FOR ADDITIONAL INFORMATION. |
| 17 | CIRCUIT TO BE CONTROLLED BY THE NETWORKED LIGHTING CONTROL SYSTEM. SEE THE LIGHTING CONTROL PLANS, THE LIGHTING CONTROL SCHEMATIC DIAGRAM AND THE NETWORKED LIGHTING CONTROL SYSTEM SPECIFICATIONS FOR ADDITIONAL INFORMATION. |
| 18 | PROVIDE CONNECTION TO INTEGRAL GENERATOR TRANSFORMER AND 208Y/120V PANELBOARD. SEE THE ELECTRICAL ONE LINE DIAGRAM - EMERGENCY - SOUTH BUILDING FOR ADDITIONAL INFORMATION. COORDINATE ALL CONNECTION REQUIREMENTS WITH THE GENERATOR SUPPLIER/MANUFACTURER. SEE THE GENERATOR SPECIFICATIONS FOR ADDITIONAL INFORMATION. |
| 19 | VIDEO CAMERA SECURITY LOCATION: CAMERAS MOUNTED ON BUILDING SHALL BE INSTALLED WITHIN 12" OF THE ROOF TOP AND WITHIN 12" OF THE CORNER OF THE BUILDING (WHERE SHOWN AT THE CORNER). COORDINATE THE EXACT LOCATION WITH THE SECURITY CONTRACTOR. SEE THE VIDEO SECURITY CONNECTION DIAGRAM FOR ADDITIONAL INFORMATION. |
| 20 | ELECTRICAL CONTRACTOR TO INTERCONNECT LES PROVIDED 4" PRIMARY CONDUITS BETWEEN PAD MOUNTED TRANSFORMERS. COORDINATE EXACT REQUIREMENTS AND ROUTING WITH LES. |

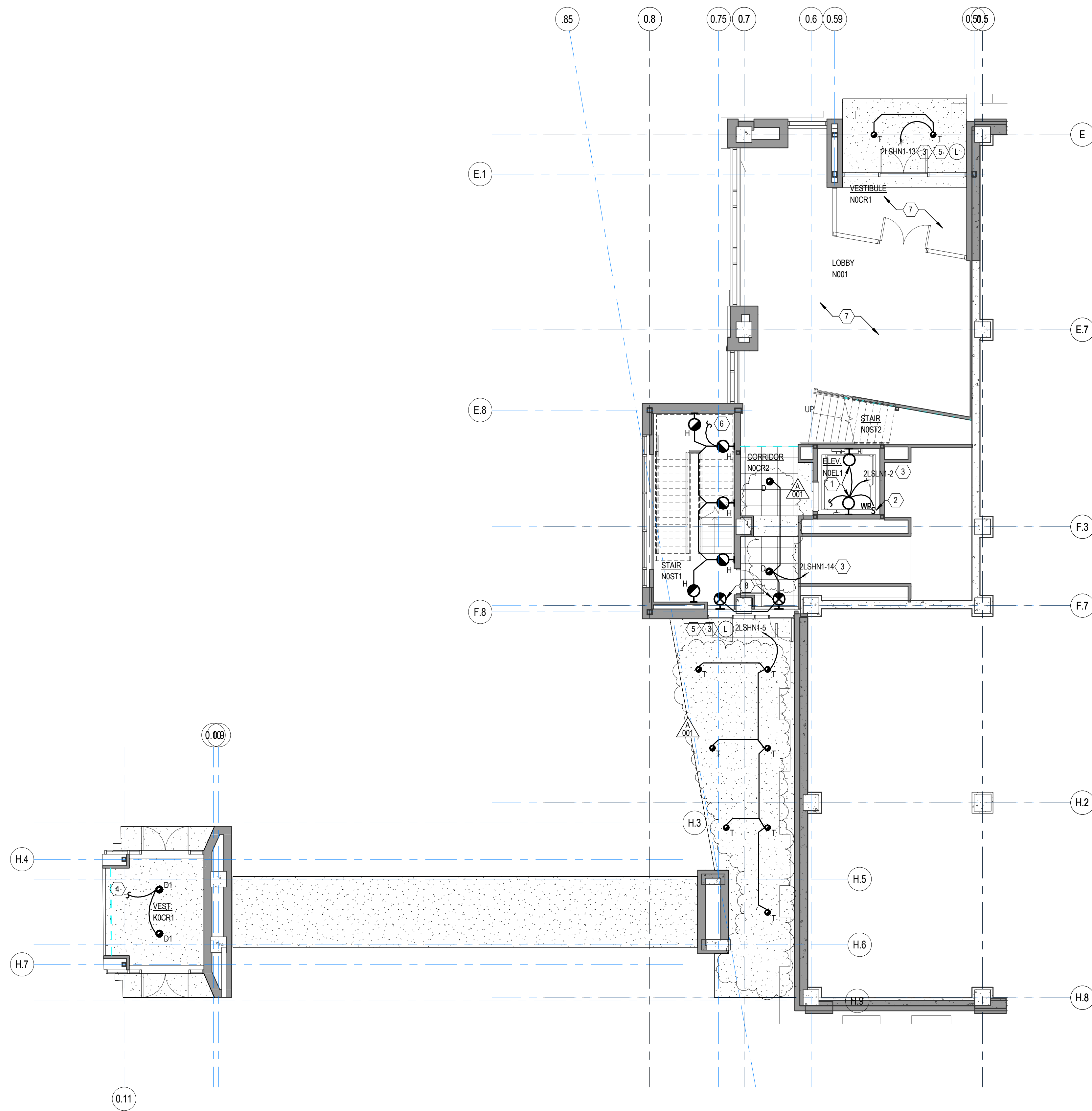
THE CONTRACTOR SHALL IDENTIFY, SUPPORT AND PROTECT ALL EXISTING UTILITIES THROUGHOUT THE DURATION OF CONSTRUCTION.

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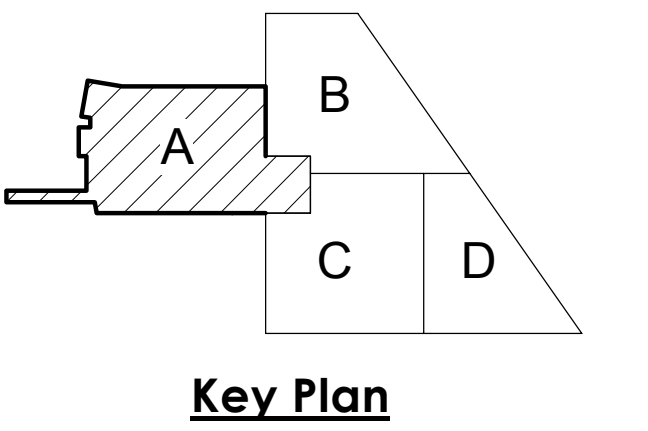
Electrical Site Utilities Plan
E0.01

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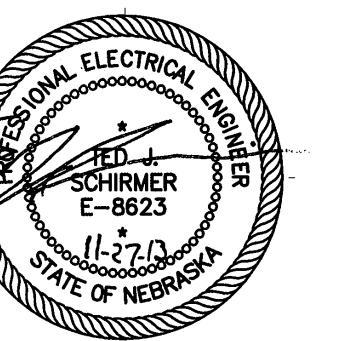
| LOWER LEVEL LIGHTING PLAN NOTES | |
|---------------------------------|--|
| KEY NOTE | DESCRIPTION |
| 1 | ELEVATOR PIT LIGHT FIXTURE, EPCO (OR EQUIVALENT) TYPE G-4-L2-TSHO-Y (ENCLOSED AND GASKETED, SUITABLE FOR WET LOCATIONS). WALL MOUNT PIT LIGHT FIXTURE AT 12" ABOVE PIT FLOOR. COORDINATE EXACT FIXTURE LOCATION WITH ELEVATOR SUPPLIER/INSTALLER. GROUND FIXTURE AND FIXTURE GUARD IN ACCORDANCE WITH CODE REQUIREMENTS. DO NOT CONNECT THE LIGHT FIXTURE TO THE LOAD SIDE OF THE GFI RECEPTACLE. SEE SHEET E2.01 FOR CONTINUATION OF CIRCUIT. |
| 2 | MOUNT WEATHERPROOF PIT LIGHT SWITCH 18" ABOVE LOWER LEVEL FINISHED FLOOR ELEVATION, ADJACENT TO PIT LADDER. COORDINATE EXACT SWITCH LOCATION WITH ELEVATOR SUPPLIER/INSTALLER. |
| 3 | ROUTE #10'S THROUGHOUT ENTIRE CIRCUIT. |
| 4 | CONNECT FIXTURES TO AN UNSWITCHED HOT CONDUCTOR FROM THE NEAREST AVAILABLE 277V LIFE SAFETY LIGHTING CIRCUIT INSIDE THE 4-H BUILDING. |
| 5 | CIRCUIT TO BE CONTROLLED BY THE NETWORKED LIGHTING CONTROL SYSTEM. SEE THE LIGHTING CONTROL PLANS, THE LIGHTING CONTROL SCHEMATIC DIAGRAM AND THE NETWORKED LIGHTING CONTROL SYSTEM SPECIFICATIONS FOR ADDITIONAL INFORMATION. |
| 6 | SEE SHEET E1.21 FOR CONTINUATION OF CIRCUIT. |
| 7 | SEE SHEET E1.11 FOR LIGHTING IN THIS AREA. |
| 8 | CONNECT FIXTURE TO UNSWITCHED HOT OF CIRCUIT INDICATED. |

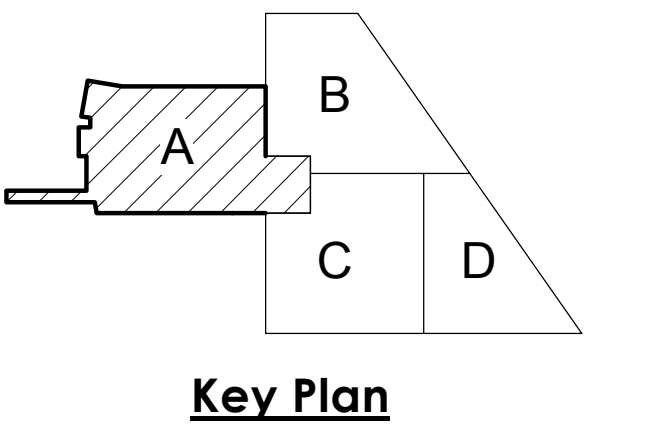
KEY PLAN:
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 A - 001 12/11/2013 ADDENDUM #001



LOWER LEVEL LIGHTING PLAN
 SCALE: 1/8" = 1'-0"

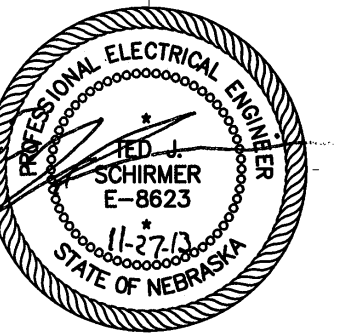
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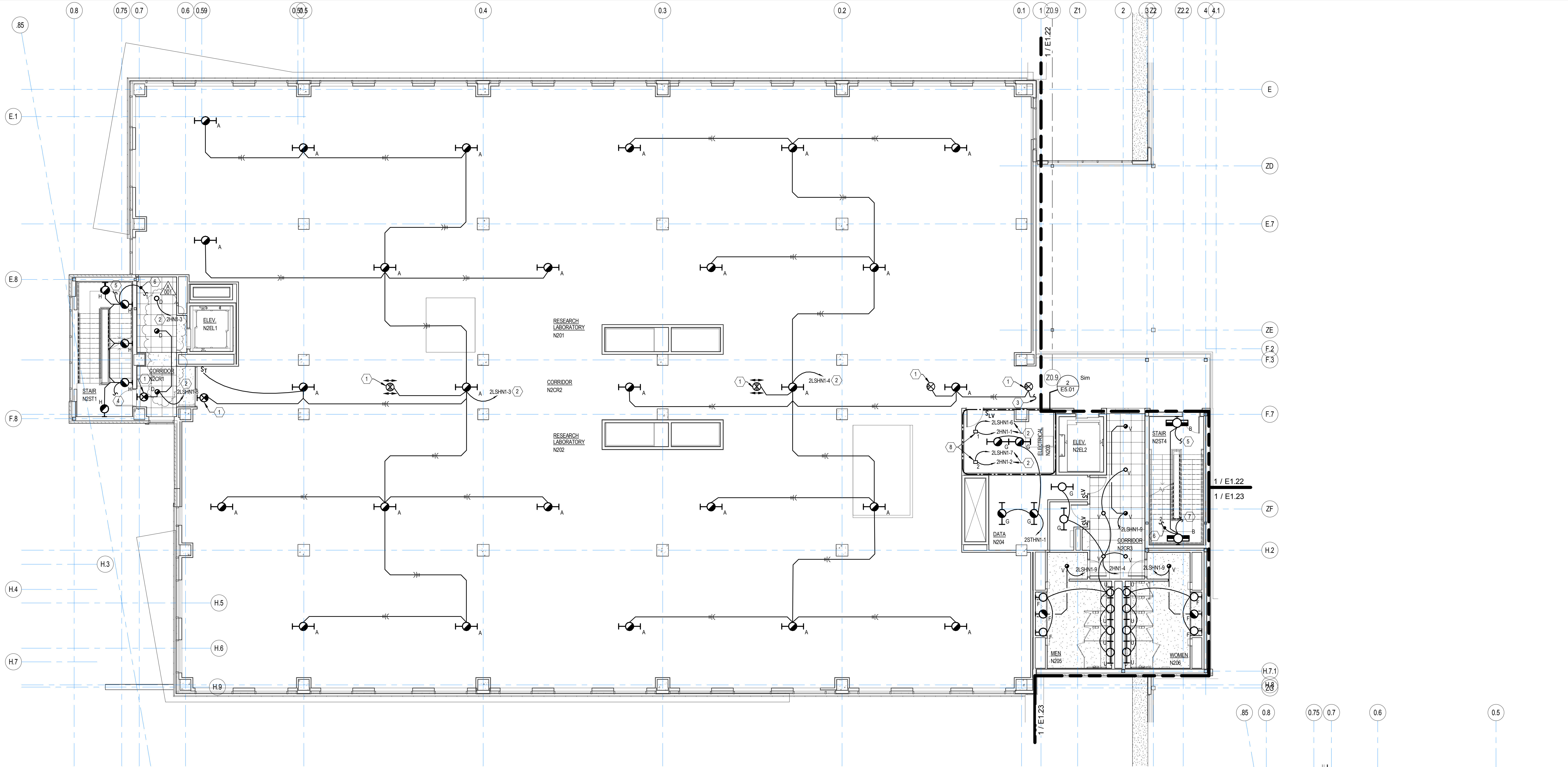
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Second Floor Lighting
Plan - Area 'A'

E1.21



SECOND FLOOR LIGHTING PLAN - AREA 'A'

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

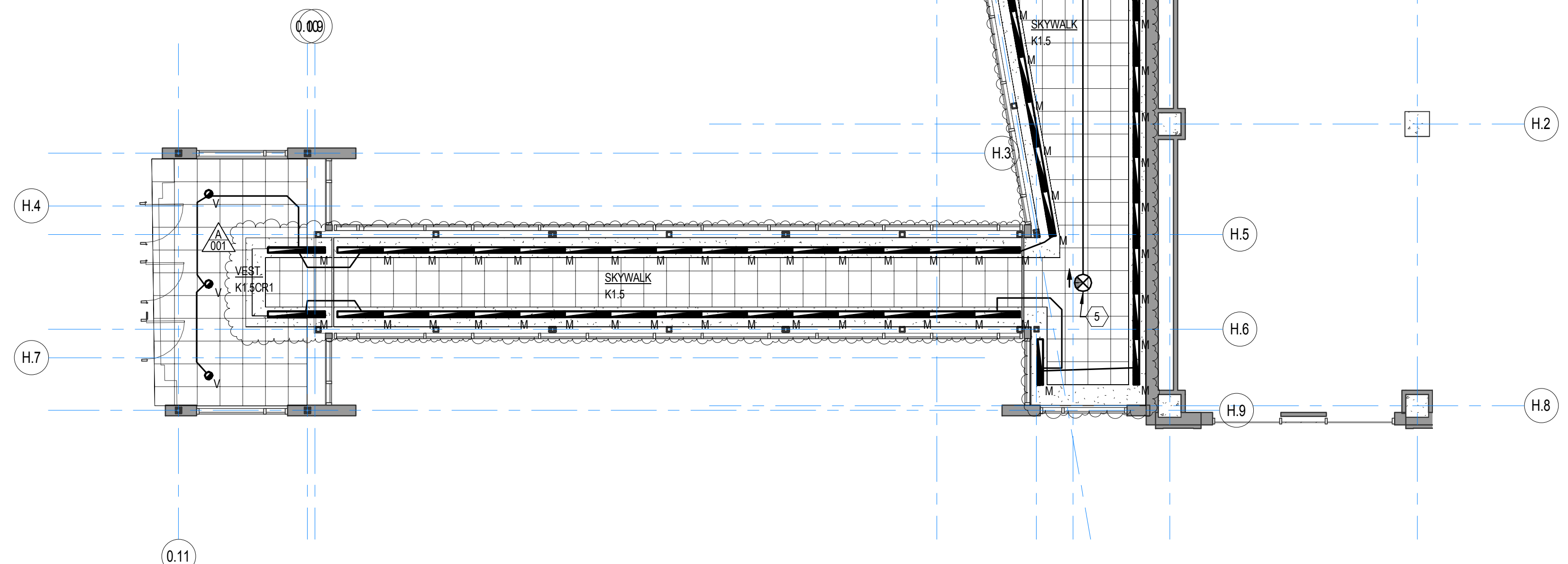
SHELL SPACE LIGHTING ON THIS LEVEL INCLUDING ASSOCIATED CIRCUITING AND CONDUIT TO BE BID AND COMPLETED AS A PART OF PRODUCT ALTERNATE #1 TO THE BASE BID CONDITION. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

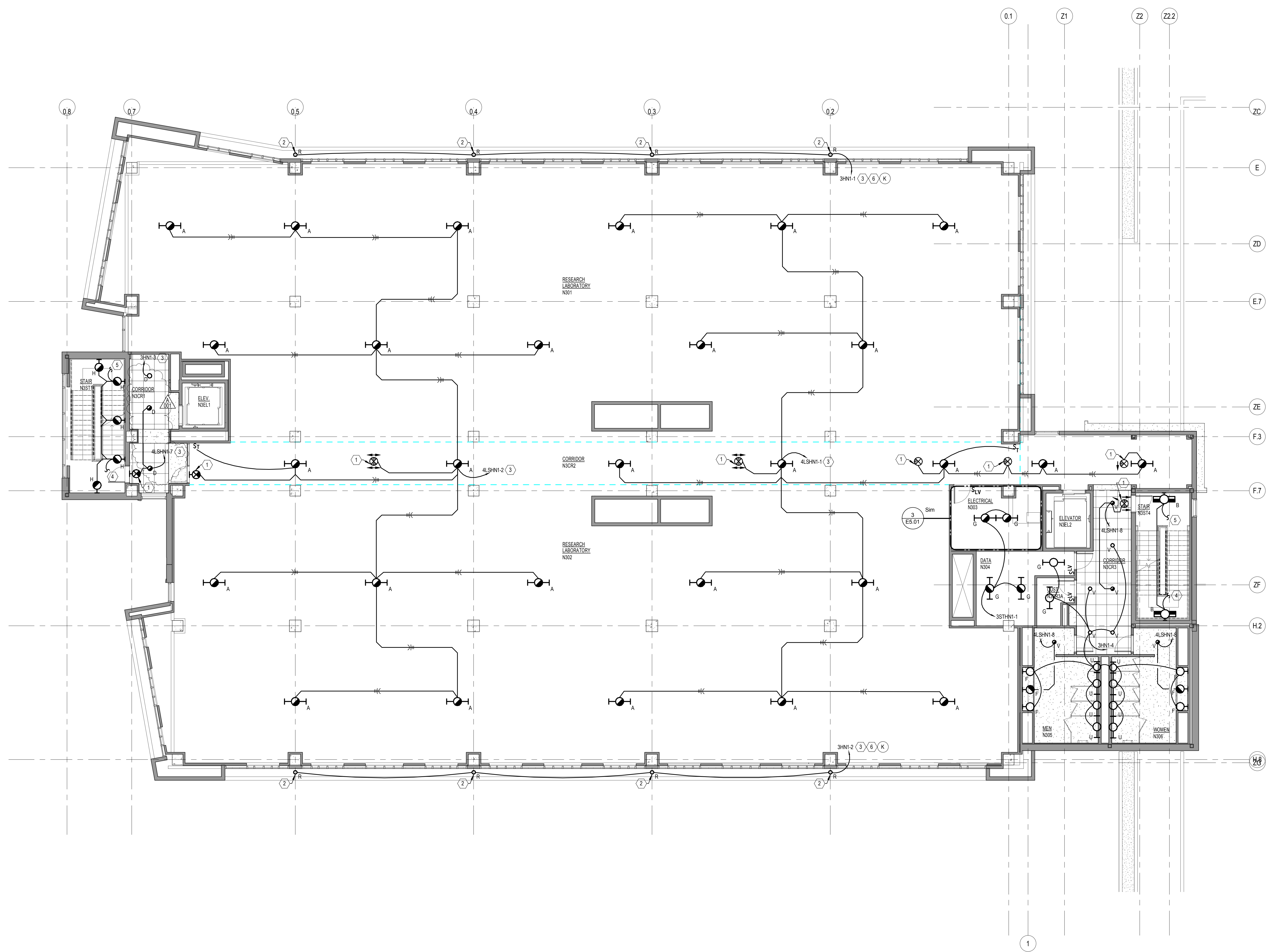
| KEY NOTE | DESCRIPTION |
|----------|---|
| 1 | CONNECT FIXTURE TO UNSWITCHED HOT OF CIRCUIT INDICATED. |
| 2 | ROUTE #10'S THROUGHOUT ENTIRE CIRCUIT. |
| 3 | SEE SHEET E1.22 FOR CONTINUATION. |
| 4 | SEE THE SKYWALK LIGHTING PLAN FOR CONTINUATION OF CIRCUIT. |
| 5 | SEE SHEET E1.31 FOR CONTINUATION OF CIRCUIT. |
| 6 | CIRCUIT VIA EMERGENCY LIGHTING CONTROL UNIT INDICATED. |
| 7 | SEE SHEET E1.11 FOR CONTINUATION OF CIRCUIT. |
| 8 | PROVIDE AN EMERGENCY LIGHTING CONTROL UNIT, DUALITE HATS020 OR APPROVED EQUAL. ROUTE NORMAL AND LIFE SAFETY CIRCUIT INDICATED VIA THIS DEVICE AND THEN TO THE DESIGNATED LIGHTING FIXTURES. MOUNT UNIT TO BOTTOM OF STRUCTURE A MINIMUM OF 14'-0" AFF UNLESS NOTED OTHERWISE. |

| KEY NOTE | DESCRIPTION |
|----------|--|
| 1 | SEE THE SECOND FLOOR LIGHTING PLAN - AREA 'A' FOR CONTINUATION OF CIRCUIT. |
| 2 | SEE SHEET E1.01 FOR CONTINUATION OF CIRCUIT. |
| 3 | CIRCUIT TO BE CONTROLLED BY THE NETWORKED LIGHTING CONTROL SYSTEM. SEE THE LIGHTING CONTROL PLANS, THE LIGHTING CONTROL SCHEMATIC DIAGRAM AND THE NETWORKED LIGHTING CONTROL SYSTEM SPECIFICATIONS FOR ADDITIONAL INFORMATION. |
| 4 | ROUTE #10'S THROUGHOUT ENTIRE CIRCUIT. |
| 5 | CONNECT FIXTURE TO UNSWITCHED HOT OF CIRCUIT INDICATED. |

SKYWALK LIGHTING PLAN

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

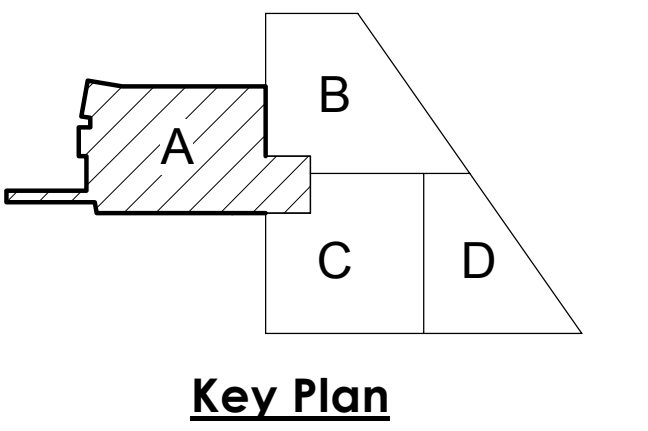




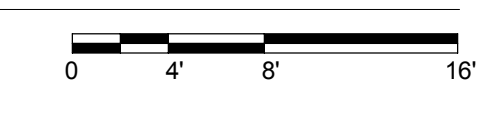
SHELL SPACE LIGHTING ON THIS LEVEL INCLUDING ASSOCIATED CIRCUITING AND CONDUIT TO BE BID AND COMPLETED AS A PART OF SHEET A-1 TERMINATE # TO THE BASE BID CONDITION. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

| THIRD FLOOR LIGHTING PLAN - AREA 'A' NOTES | |
|--|--|
| KEY NOTE | DESCRIPTION |
| 1 | CONNECT FIXTURE TO 'UNSWITCHED HOT' OF CIRCUIT INDICATED. |
| 2 | MOUNT FIXTURES IN EXTERIOR SOFFIT OVERHANGING SECOND FLOOR. ROUTE CONDUIT AND CONDUCTORS FROM THIRD FLOOR SPACE. SEE ARCHITECTURAL DETAIL FOR ADDITIONAL INFORMATION. |
| 3 | ROUTE #1'S THROUGHOUT ENTIRE CIRCUIT. |
| 4 | SEE SHEET E1.21 FOR CONTINUATION OF CIRCUIT. |
| 5 | SEE SHEET E1.41 FOR CONTINUATION OF CIRCUIT. |
| 6 | CIRCUIT TO BE CONTROLLED BY THE NETWORKED LIGHTING CONTROL SYSTEM. SEE THE LIGHTING CONTROL PLANS, THE LIGHTING CONTROL SCHEMATIC DIAGRAM AND THE NETWORKED LIGHTING CONTROL SYSTEM SPECIFICATIONS FOR ADDITIONAL INFORMATION. |

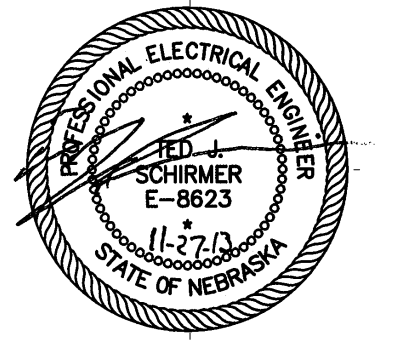
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THIRD FLOOR LIGHTING PLAN - AREA 'A'
 SCALE: 1/8" = 1'-0"

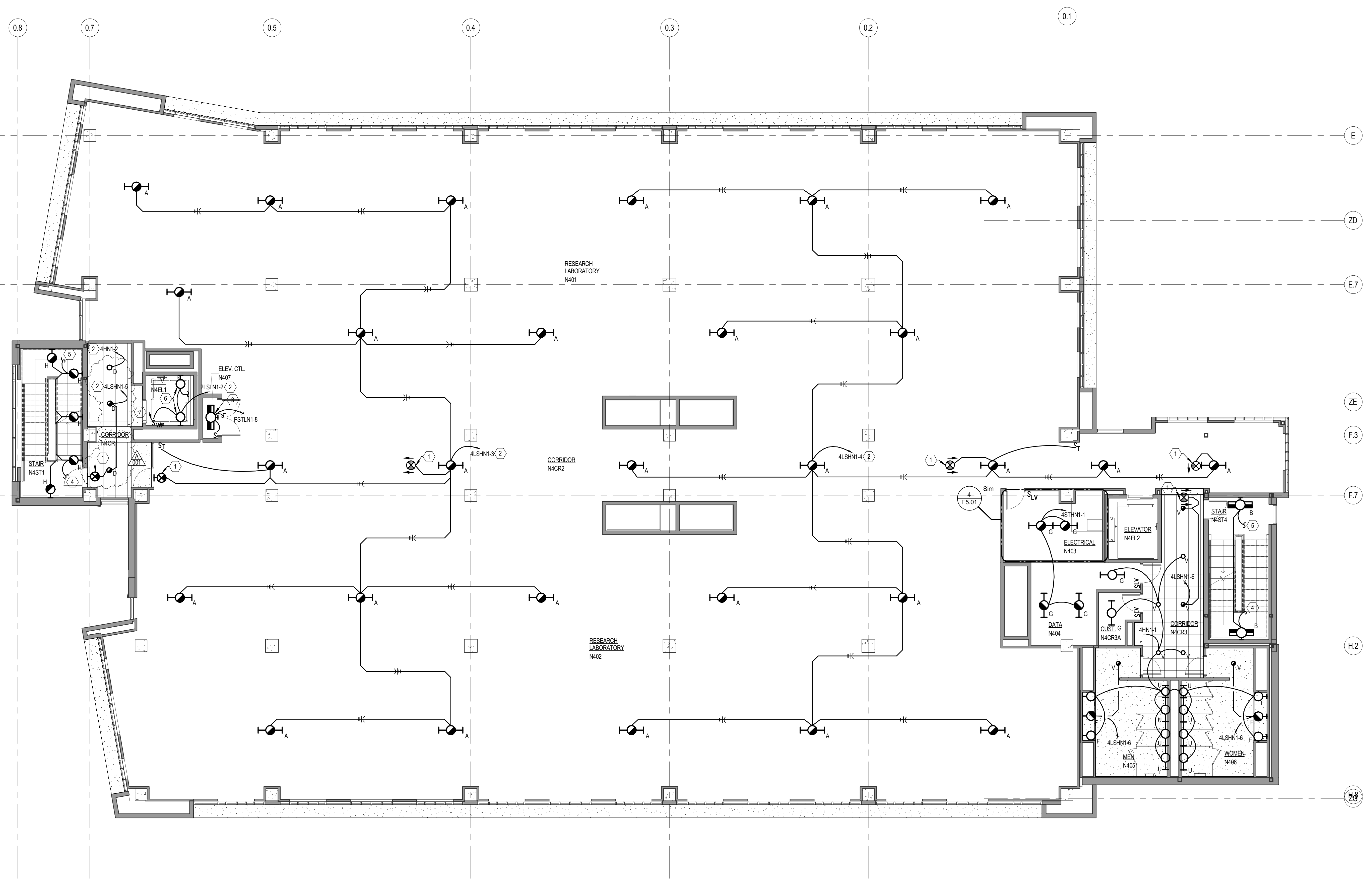


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Third Floor Lighting Plan - Area 'A'

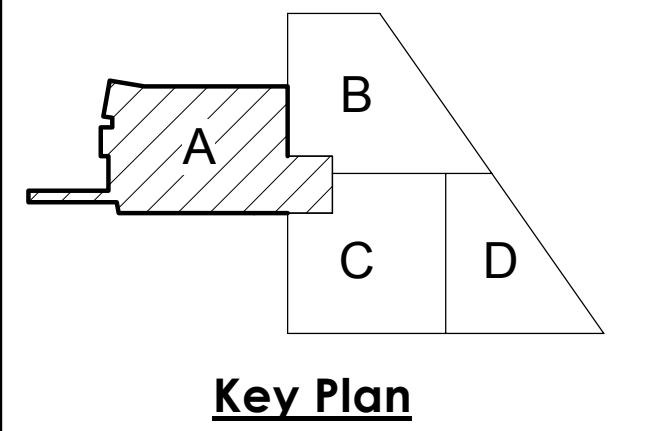
E1.31



SHALL SPACE LIGHTING ON THIS LEVEL INCLUDING ASSOCIATED CIRCUITING AND CONDUIT TO BE BID AND COMPLETED AS A PART OF DEDUCT ALTERNATE #4 TO THE BASE BID CONDITION. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

| FOURTH FLOOR LIGHTING PLAN - AREA 'A' NOTES | |
|---|---|
| KEY NOTE | DESCRIPTION |
| 1 | CONNECT FIXTURE TO UNSWITCHED HOT OF CIRCUIT INDICATED. |
| 2 | ROUTE #1'S THROUGHOUT ENTIRE CIRCUIT. |
| 3 | ELEVATOR CONTROL ROOM LIGHT FIXTURE, METALLUX (OR EQUIVALENT) TYPE SSF-2-32-120V WITH WIREGUARD. WALL MOUNT LIGHT FIXTURE ABOVE DOOR AT +8'-0" AFF. DO NOT CONNECT LIGHT FIXTURE TO THE LOAD SIDE OF THE GFI RECEPTACLE. SEE SHEET E2.41 FOR CIRCUIT CONTINUATION. |
| 4 | SEE SHEET E1.31 FOR CONTINUATION OF CIRCUIT. |
| 5 | SEE SHEET E1.51 FOR CONTINUATION OF CIRCUIT. |
| 6 | ELEVATOR PIT LIGHT FIXTURE, EPOC (OR EQUIVALENT) TYPE G-4-L2-T9HO-Y (ENCLOSED AND GASKETED, SUITABLE FOR WET LOCATIONS). WALL MOUNT PIT LIGHT FIXTURE AT 60" ABOVE FINISH FLOOR OF FOURTH FLOOR. COORDINATE EXACT FIXTURE LOCATION WITH ELEVATOR SUPPLIER/INSTALLER. GROUND FIXTURE AND FIXTURE GUARD IN ACCORDANCE WITH CODE REQUIREMENTS. DO NOT CONNECT THE LIGHT FIXTURE TO THE LOAD SIDE OF THE GFI RECEPTACLE. SEE SHEET E2.01 FOR CONTINUATION OF CIRCUIT. |
| 7 | MOUNT WEATHERPROOF PIT LIGHT SWITCH 48" ABOVE FOURTH FLOOR FINISHED FLOOR ELEVATION, ADJACENT TO ELEVATOR DOOR. COORDINATE EXACT SWITCH LOCATION WITH ELEVATOR SUPPLIER/INSTALLER. |

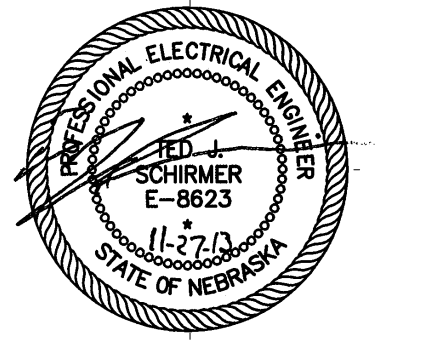
SHEET HISTORY:
 ISSUED 11/27/2013 AS PER CONSTRUCTION DOCUMENTS
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FOURTH FLOOR LIGHTING PLAN - AREA 'A'
 SCALE: 1/8" = 1'-0"



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Fourth Floor Lighting Plan - Area 'A'

E1.41

| LIGHTING FIXTURE SCHEDULE | | | | | | | | | | |
|---------------------------|-------------------------------|--|---|------------------|---------------|---------|-----|------------------|---|--|
| Fixture Type | Manufacturers | Catalog Numbers | Description | No. of Lamps | Lamp Type | Volt | VA | Mounting | Remarks | |
| A | HE WILLIAMS COLUMBIA METALLIX | 80-4-232-UNV CSP-4-2-32-ST-X-U ICF-232-UNV | 4'-0" LONG FLUORESCENT INDUSTRIAL FIXTURE | 2 | 32W T8 3500K | UNV | 70 | PENDANT | UNLESS OTHERWISE NOTED, CHAIN HANG FIXTURES FROM STRUCTURE SO THAT BOTTOM OF FIXTURE IS 10'-0" AFF. PROVIDE FIXTURE WITH EMERGENCY BATTERY BALLAST. PROVIDE FIXTURE WITH BALLAST DISCONNECT PLUG. SEE SPECIFICATIONS FOR BALLAST INFORMATION. | |
| B | DOL FOCAL POINT AXIS | D01-S18A-48-MV-BAL-2L-F24-277 (50% DIMMING) FAV20-FL-1175HO-277...-WMA-DC-TS-4 (50% DIMMING) BBW-S-4-T5HO-1-1-AF-UNV-1-X (50% DIMMING) | 4'-0" LONG WALL MOUNTED | 2 | F54T5HO 3500K | UNV | 120 | WALL MOUNTED | MOUNT FIXTURE HORIZONTALLY TO WALL SO THAT BOTTOM OF FIXTURE IS 6'-0" ABOVE LANDING OR ADJACENT STAIR, UNLESS OTHERWISE NOTED. WHEN REQUIRED IN THE PLANS, PROVIDE FIXTURES WITH DUAL LEVEL BALLASTS THAT EVENLY DIM LAMPS TO 50% UPON SIGNAL FROM LIGHTING CONTROL SYSTEM. SEE THE LIGHTING CONTROL PLANS FOR ADDITIONAL INFORMATION. | |
| C | LITHOMA COLUMBIA METALLIX | FOB164-4-32-N1-K25-MVOLT-SEE SPEC LW-4-4-32-W-STEP-U HE-4-32-M-UNV-ERS | HIGH BAY FLUORESCENT FIXTURE | 4 | 32W T8 3500K | 277 | 150 | PENDANT | PENDANT MOUNT FIXTURES FROM STRUCTURE SO BOTTOM OF FIXTURE IS 28'-0" ABOVE FINISHED FIRST FLOOR. PROVIDE FIXTURE WITH EMERGENCY BATTERY BALLAST. | |
| D | PORTFOLIO | LD6A-20-D010TE-X-ERMA20-8-35-6LM-H | 6" LED DOWNLIGHT | PROV. W/ FIXTURE | LED | UNV | 40 | RECESSED | PROVIDE REQUIRED TRIM OPTIONS FOR COMPATIBLE INSTALLATION WITH CEILING TYPES SPECIFIED. PROVIDE BALLAST DISCONNECT PLUG WITH FIXTURE. | |
| | SURE-LITES | LPX-7 | EXIT FIXTURE PROVIDED WITH NUMBER OF FACES AND ARROWS AS INDICATED ON PLANS | NA | LED | UNV | 10 | SURFACE | UNLESS OTHERWISE INDICATED WALL MOUNT AT 7'-0" AFF OR SO THAT BOTTOM OF EXIT SIGN IS 6" ABOVE TOP OF DOOR FRAMES. RECESS MOUNT WHERE CEILING LOCATION ALLOWS. PROVIDE SELF-DIAGNOSTICS AND INTEGRAL BATTERY PACK WHERE SHOWN SUSPENDED FROM STRUCTURE IN SHELL SPACE ANGLES. MOUNT AT 9'-0" AFF WITH RIGID CONDUIT SUPPORT. | |
| | SURE-LITES | LX7-R-WH | WEATHER PROOF EXIT FIXTURE PROVIDED WITH NUMBER OF FACES AND ARROWS AS INDICATED ON PLANS | NA | LED | UNV | 10 | SURFACE | UNLESS OTHERWISE INDICATED WALL MOUNT AT 7'-0" AFF OR SO THAT BOTTOM OF EXIT SIGN IS 6" ABOVE TOP OF DOOR FRAMES. PROVIDE SELF-DIAGNOSTICS AND INTEGRAL BATTERY PACK. | |
| | AXIS | MBS-S-2-TS-1-AF-UNV-ERS-1 | 2" LINEAR WALL SCONCE | 1 | 14W T5 3500K | UNV | 20 | WALL | MOUNT VERTICALLY ON WALL ADJACENT TO OR CENTERED IN BETWEEN MIRRORS, WITH CENTER OF FIXTURE AT 5'-0" AFF. UNLESS OTHERWISE NOTED, MOUNT SO NARROW SIDE OF FIXTURE FACES OUTWARDS FROM THE WALL. PROVIDE FIXTURES WITH BALLAST DISCONNECT PLUG. SEE SPECIFICATIONS FOR BALLAST INFORMATION. | |
| | HE WILLIAMS COLUMBIA METALLIX | 82-4-2-32-SPEC-UNV IC4-232-U-EP-U DMF-232-UNV-ERS | 4'-0" LONG FLUORESCENT PENDANT MOUNTED PREMIUM INDUSTRIAL | 2 | 32W T8 3500K | UNV | 70 | PENDANT | UNLESS OTHERWISE NOTED, CHAIN HANG FIXTURES FROM STRUCTURE SO THAT BOTTOM OF FIXTURE IS 10'-0" AFF. PROVIDE TYPE "O" FIXTURES WITH EMERGENCY BATTERY BALLASTS. SEE SPECIFICATIONS FOR BALLAST INFORMATION. | |
| | AXIS | ARWLED-B1-640-S-3-AF-UNV-D (50% DIMMING) | 3" LINEAR WALL SCONCE | NA | LED 3500K | UNV/277 | 30 | WALL | WALL MOUNT FIXTURE VERTICALLY SO CENTER OF FIXTURE IS 6'-0" ABOVE FINISH FLOOR OR STAIR. SEE THE ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION. WHEN REQUIRED IN THE PLANS, PROVIDE FIXTURES WITH DRIVER THAT EVENLY DIMS LAMPS TO 50% UPON SIGNAL FROM LIGHTING CONTROL SYSTEM. SEE THE LIGHTING CONTROL PLANS FOR ADDITIONAL INFORMATION. | |
| | MODA LIGHT | MOJO 4000K | LED SURFACE MOUNTED DOWNLIGHT | NA | LED 4000K | 277 | 8 | SURFACE | FIXTURE MOUNTED ON UNDERSIDE OF SOFFIT TO LIGHT EXISTING EXTERIOR HISTORICAL WALLS. COORDINATE EXACT PLACEMENT WITH THE ARCHITECT AND ENGINEER. ALL CONDUIT ROUTING TO THE FIXTURE SHALL BE CONCEALED. SEE THE ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION. | |
| | FOCAL POINT | FOOL-HN-L13-L36-1C-277-LD1-CV-(LENGTHS AS REQUIRED) | LED COVE FIXTURE | NA | LED 3500K | 277 | 30 | COVE | FIXTURES TO BE MOUNTED CONTINUOUSLY END TO END TO PROVIDE EVENLY LIT COVE. PROVIDE ALL NECESSARY LENGTHS OF FIXTURES TO LIGHT THE ENTIRE COVE EVENLY. SEE THE ARCHITECTURAL COVE DETAILS FOR ADDITIONAL INSTALLATION INFORMATION. AIM TO EVENLY LIGHT ENTIRE COVE. COORDINATE AIMING WITH THE ENGINEER. SEE PLANS FOR FIXTURE LENGTHS. | |
| | NEO-RAY | 822-D-R-2-L35-U-ED-SR2 | LED RECESSED LINEAR FIXTURE | NA | LED 3500K | UNV | 40 | RECESSED | COORDINATE TRIM KIT WITH THE CEILING INSTALLATION APPLICATION. SEE PLANS FOR RUN LENGTHS. PROVIDE FIXTURES IN CONTINUOUS LENGTHS WHEN INDICATED END TO END. SEE ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION. | |
| | BEGA | 2384LED-K4-SLV | 12" LONG X 3" HIGH LED RECESSED STEP FIXTURE | NA | LED 4000K | 277 | 15 | RECESSED IN WALL | RECESS FIXTURE IN WALL SO THAT BOTTOM OF FIXTURE IS AT 18" ABOVE ADJACENT FINISHED FLOOR/STAIR. | |
| | INVUE | MSA-B01-LED-E1-SL3-BK POLE: INVUE SRX BLACK | 12'-0" POLE MOUNTED LED PEDESTAL FIXTURE | NA | LED 4000K | 277 | 30 | POLE | SEE THE PEDESTAL FIXTURE POLE BASE DETAIL AND THE ELECTRICAL SITE UTILITIES PLAN FOR ADDITIONAL INFORMATION. | |
| | INVUE | MSA-B01-LED-E1-SL4-BK POLE: INVUE SRX BLACK | 12'-0" POLE MOUNTED LED PEDESTAL FIXTURE | NA | LED 4000K | 277 | 30 | POLE | SEE THE PEDESTAL FIXTURE POLE BASE DETAIL AND THE ELECTRICAL SITE UTILITIES PLAN FOR ADDITIONAL INFORMATION. | |
| | INVUE | MSA-B02-LED-E1-SWQ-BK POLE: INVUE SRX BLACK | 12'-0" POLE MOUNTED LED PEDESTAL FIXTURE | NA | LED 4000K | 277 | 55 | POLE | SEE THE PEDESTAL FIXTURE POLE BASE DETAIL AND THE ELECTRICAL SITE UTILITIES PLAN FOR ADDITIONAL INFORMATION. | |

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

- MANY OF THE LIGHTING FIXTURES LISTED IN THE FIXTURE SCHEDULE REQUIRE SPECIAL OPTIONS TO FUNCTION PROPERLY IN THE CONTROL SCENARIOS CALLED OUT ON THE LIGHTING CONTROL PLANS AND ASSOCIATED SCHEDULE. THE CONTRACTOR SHALL CAREFULLY REVIEW BOTH THE LIGHTING CONTROL PLANS AND THE LIGHTING FIXTURE SCHEDULE TO PROVIDE FIXTURES WITH ALL NECESSARY COMPONENTS TO ENSURE FULLY FUNCTIONAL LIGHTING CONTROL SCENARIOS AS CALLED OUT IN THE PLANS.
- MULTIPLE CONTROL SCENARIOS ARE INDICATED ON THE LIGHTING AND LIGHTING CONTROL PLANS BY CIRCUITING AND/OR OTHER NOTATION. PROVIDE QUANTITY AND TYPE OF BALLASTS/DRIVERS OR OTHER COMPONENTS NECESSARY TO ACHIEVE THE CONTROL SCENARIOS INDICATED BY THE PLANS. FULLY COORDINATE BALLAST/DRIVER AND ALL LIGHTING FIXTURE COMPONENTS WITH THE LIGHTING CONTROL SYSTEM CONTRACTOR AND MANUFACTURER. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR A LACK OF COORDINATION BETWEEN THE LIGHTING CONTROL SYSTEM CONTRACTOR, MANUFACTURER AND THE ELECTRICAL CONTRACTOR.

| | | | | | | | | | | |
|----|---------------------|--|--|-------------------|--------------------------------|-----|----------|----------|--|--|
| Q | INVUE | ENT-B01-LED-E1-BL4-BK | WALL-MOUNT LED SITE FIXTURE | NA | LED 4000K | 277 | 30 | WALL | WALL MOUNT FIXTURE TO EXTERIOR OF BUILDING SO THAT BOTTOM OF FIXTURE IS 9'-0" ABOVE FINISH GRADE UNLESS NOTED OTHERWISE IN THE PLANS. | |
| R | ERCO | 81044-023 | 6" LED RECESSED DOWNLIGHT | NA | LED 4000K | UNV | 15 | RECESSED | RECESSED, LED, WET LOCATION FIXTURE WITH NARROW OPTIC DISTRIBUTION. FIXTURE REFLECTOR TO EVENLY LIGHT BUILDING EXTERIOR BELOW. COORDINATE AIMING WITH THE ENGINEER. | |
| S2 | MCGRAW-EDISON | TLM-B03-LED-E1-SL2-BK POLE: STREETWORKS SSS BLACK | 22'-0" POLE WITH LED SITE LIGHTING FIXTURE | NA | LED 4000K | 277 | 130 | POLE | FIXTURE AND POLE TO MATCH 4H. SEE THE SITE FIXTURE POLE BASE DETAIL AND THE ELECTRICAL SITE UTILITIES PLAN FOR ADDITIONAL INFORMATION. LUMINAIRE TO SHARE COMMON POLES AS INDICATED ON THE ELECTRICAL SITE UTILITIES PLAN. | |
| S3 | MCGRAW-EDISON | TLM-B03-LED-E1-SL3-BK POLE: STREETWORKS SSS BLACK | 22'-0" POLE WITH LED SITE LIGHTING FIXTURE | NA | LED 4000K | 277 | 130 | POLE | FIXTURE AND POLE TO MATCH 4H. SEE THE SITE FIXTURE POLE BASE DETAIL AND THE ELECTRICAL SITE UTILITIES PLAN FOR ADDITIONAL INFORMATION. LUMINAIRE TO SHARE COMMON POLES AS INDICATED ON THE ELECTRICAL SITE UTILITIES PLAN. | |
| S4 | MCGRAW-EDISON | TLM-B03-LED-E1-SL4-BK POLE: STREETWORKS SSS BLACK | 22'-0" POLE WITH LED SITE LIGHTING FIXTURE | NA | LED 4000K | 277 | 130 | POLE | FIXTURE AND POLE TO MATCH 4H. SEE THE SITE FIXTURE POLE BASE DETAIL AND THE ELECTRICAL SITE UTILITIES PLAN FOR ADDITIONAL INFORMATION. LUMINAIRE TO SHARE COMMON POLES AS INDICATED ON THE ELECTRICAL SITE UTILITIES PLAN. | |
| S5 | MCGRAW-EDISON | TLM-B03-LED-E1-SWQ-BK POLE: STREETWORKS SSS BLACK | 22'-0" POLE WITH LED SITE LIGHTING FIXTURE | NA | LED 4000K | 277 | 130 | POLE | FIXTURE AND POLE TO MATCH 4H. SEE THE SITE FIXTURE POLE BASE DETAIL AND THE ELECTRICAL SITE UTILITIES PLAN FOR ADDITIONAL INFORMATION. LUMINAIRE TO SHARE COMMON POLES AS INDICATED ON THE ELECTRICAL SITE UTILITIES PLAN. | |
| T | ZUMTobel | BRICKLED-16W-K40-M545-CS-W | 4" LED RECESSED DOWNLIGHT | NA | LED 4000K | 277 | 20 | RECESSED | RECESSED, LED, WET LOCATION, IC RATED FIXTURE. PROVIDE REQUIRED TRIM OPTIONS FOR COMPATIBLE INSTALLATION WITH CEILING TYPES SPECIFIED. PROVIDE BALLAST DISCONNECT PLUG WITH FIXTURE. | |
| U | LITHOMA COLUMBIA | FA14-EP-3-112-OR-17-UNV SS-1-(32 OR 17)-M/MOLT-X SS-14-OR-2-1-(32 OR 17)-X-X-X | 4'-0" OR 2'-0" LONG STAGGERED STRIP COVE FIXTURE | 1 - CROSS SECTION | 32W T8 (4) OR 17W T8 (2) 3500K | 277 | 50 OR 25 | COVE | PROVIDE 4'-0" LONG OR 2'-0" LONG FIXTURES AS INDICATED ON THE LIGHTING PLANS. SEE THE ARCHITECTURAL COVE DETAILS FOR ADDITIONAL INSTALLATION INFORMATION. PROVIDE CONTINUOUS LENGTHS AS INDICATED TO EVENLY DISTRIBUTE LIGHT ALONG ENTIRE COVE LENGTH. | |
| V | PORTFOLIO | LD4A-09-D010TE-ERMA09-8-35-4LM-H | 4" LED DOWNLIGHT | NA | LED | UNV | 20 | RECESSED | PROVIDE REQUIRED TRIM OPTIONS FOR COMPATIBLE INSTALLATION WITH CEILING TYPES SPECIFIED. PROVIDE BALLAST DISCONNECT PLUG WITH FIXTURE. | |
| W | NEO-RAY FOCAL POINT | S23DR-2-L35-CONTINUOUS-UNV FSMIL-FL-L12-L35-LD1-1C-277-X-WH-CONTINUOUS | LED RECESSED LINEAR FIXTURE | NA | LED 3500K | UNV | 35 | RECESSED | COORDINATE TRIM KIT WITH THE CEILING INSTALLATION APPLICATION. SEE PLANS FOR RUN LENGTHS. PROVIDE FIXTURES IN CONTINUOUS LENGTHS WHEN INDICATED END TO END. SEE ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION. | |

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Nebraska Innovation Campus Life Science Collaboration

Tenant Improvement Package - UNL Food Science and Technology
 (For Reference Only)

1910 N Antelope Valley Parkway
 Lincoln, Nebraska

TCEP Project No.: 716-002-12

November 27, 2013

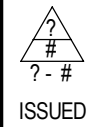
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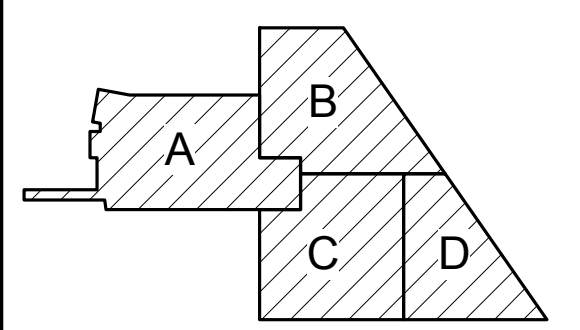
GENERAL

G0.00C Title Sheet & Drawing Index

TENANT FINISH

TF1.11 First Floor - Tenant Finish Concept Plan
 TF1.21 Second Floor - Tenant Finish Concept Plan
 TF1.31 Third Floor - Tenant Finish Concept Plan

 **SHEET HISTORY:**
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Key Plan

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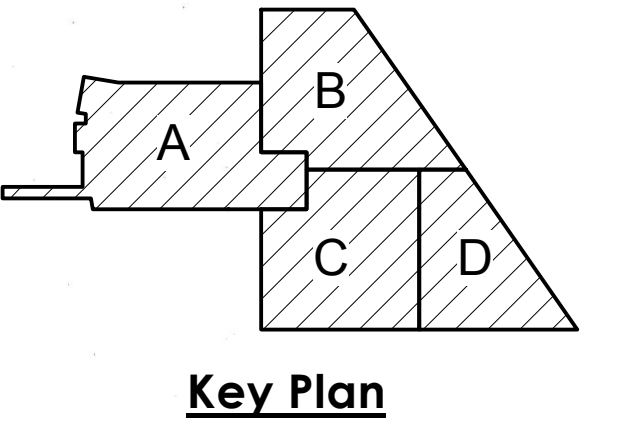
Life Science Collaboration

1910 N Antelope Valley
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 TCEP No.: 716-006-12

December 11, 2013

Title Sheet & Drawing
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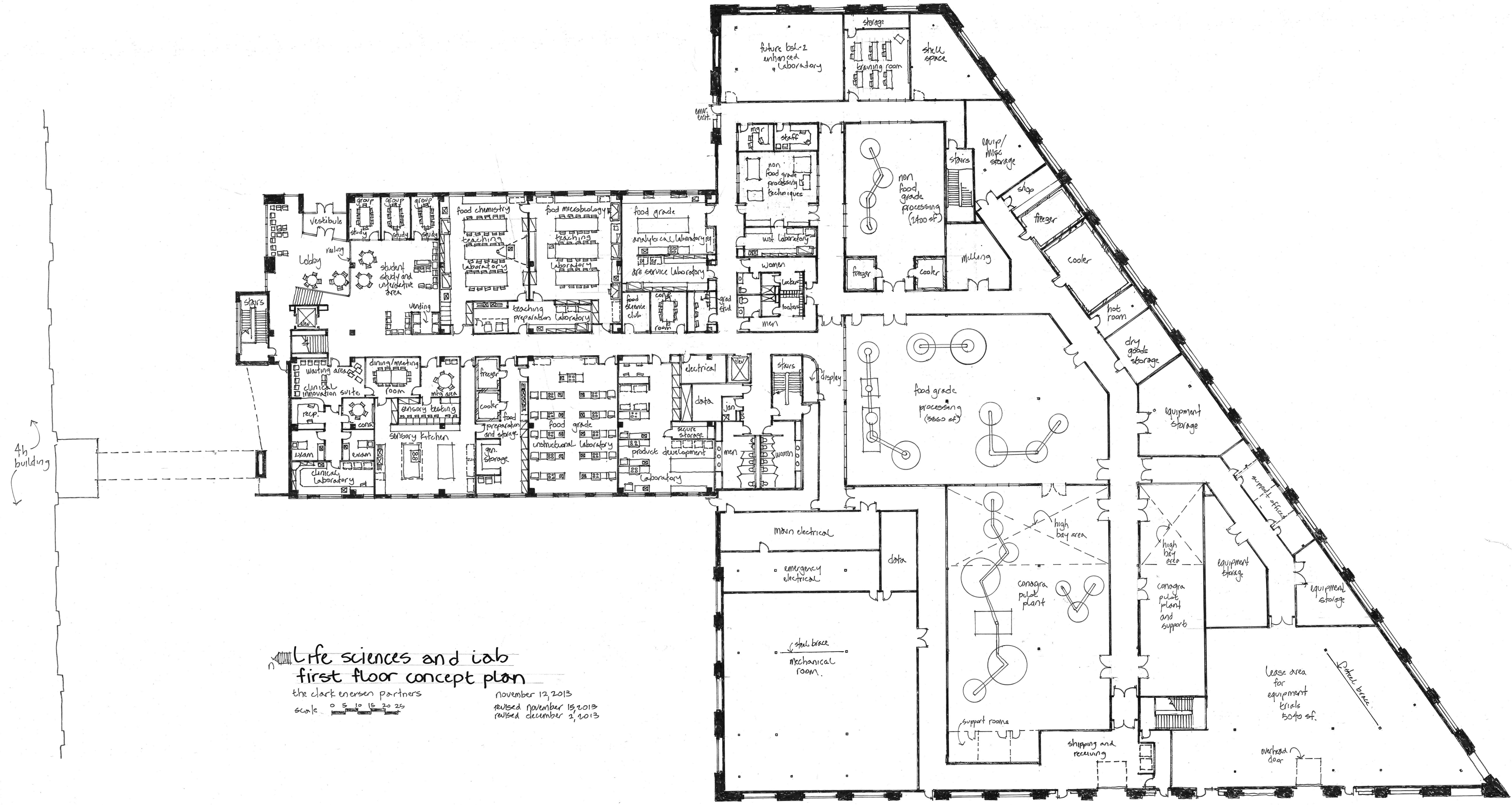
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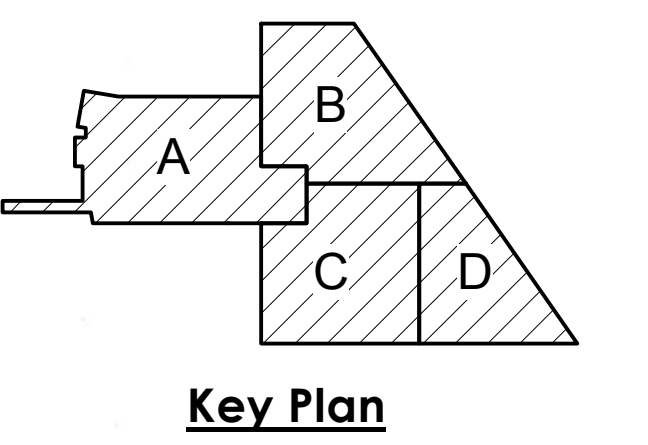
December 11, 2013

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First Floor - Tenant Finish
 Concept Plan

TF1.11





Key Plan

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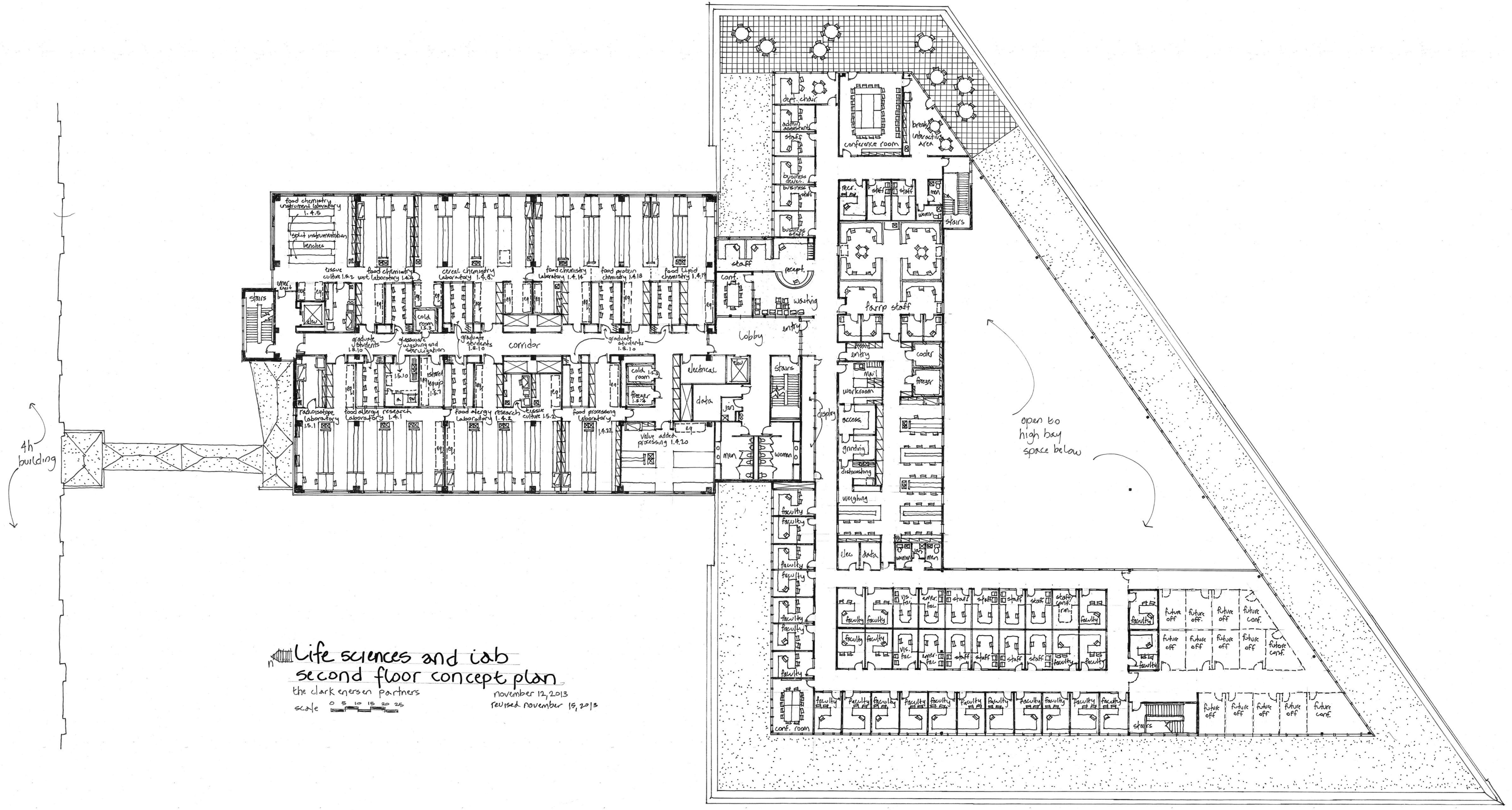
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December 11, 2013

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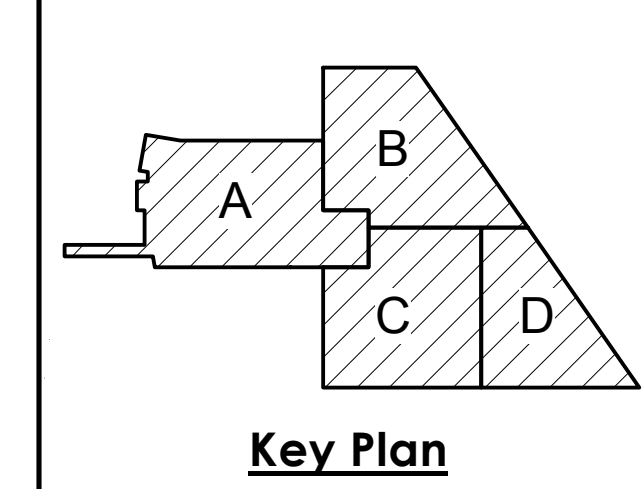
Second Floor - Tenant
 Finish Concept Plan

TF1.21



Life sciences and lab second floor concept plan
 the clark enersen partners
 scale 0 5 10 15 20 25
 november 12, 2013
 revised november 15, 2013

SHEET HISTORY:
 ISSUED 12/11/2013 AS PER ADDENDUM #1



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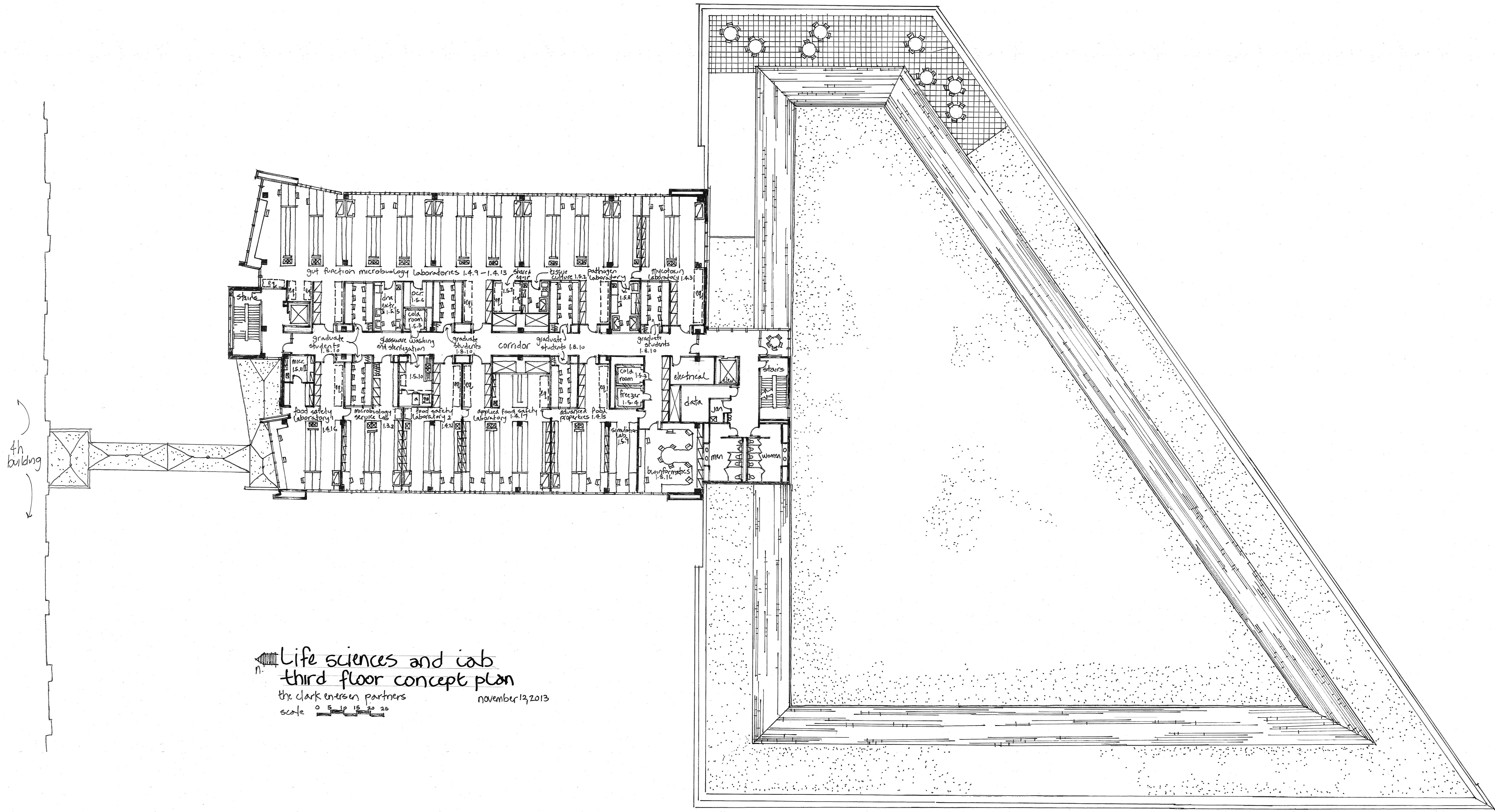
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December 11, 2013

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Third Floor - Tenant Finish
 Concept Plan

TF1.31



**Life sciences and lab
 third floor concept plan**
 the clark everson partners
 scale 0 5 10 20
 november 13, 2013

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