ADDENDUM NO.: 4.0 **DATE OF ADDENDUM: November 4, 2014**

Founders Hall Renovations for Allied Health and Nursing
Naugatuck Valley Community College, Waterbury, Connecticut
BI – CTC – 442 – CMR

Original Bid Due Date / Time: **Date: November 13, 2014** **Time: 2:00 PM EST**

Previous Addenda: 1.0, 2.0, 3.0

TO: **Prospective Bid Proposers:**
This Addendum forms part of the "Contract Documents" and modifies or clarifies the original "Contract Documents" for this Project dated August 14, 2014. Prospective Bid Proposers shall acknowledge receipt of the total number of the Addenda issued for this Project on the space provided on Section 004100 Bid Proposal Form. Failure to do may subject Bid Proposers to disqualification.

The following clarifications are applicable to drawings and specifications for the project referenced above.

GENERAL

Item 1.

The bid opening is unchanged.

Bids are due on November 13, 2014 by 2pm. Please deliver bids on November 13, 2014 to:
Naugatuck Valley Community College, Cutrali Commons, located in Founders Hall 750 Chase Parkway, Waterbury, CT C/O The Morganti Group, Inc.

Bids delivered by mail or prior to November 13, 2014 to: Attention Bob Divjak (203) 575-8235, Naugatuck Valley Community College, 750 Chase Parkway, Waterbury, CT

PREVIOUS ADDENDA

Item 2.

ADDENDUM NO. 3.0 ITEM 66: **REVISE** to read "**ADD** Material Color Palette, indicating basis of design products, as shown by attached sketches AD3-SK5.1A, AD3-SK5.1B and AD3-SK5.1C to coordinate with Room Finish Schedule."

Item 3.

ADDENDUM NO. 3.0 ITEM 95: **DELETE** item regarding ladder racks in MDF.

SPECIFICATIONS

Item 4.

SECTION 012000 – CONTRACT CONSIDERATIONS: At Article 1.5 UNIT PRICE SCHEDULES, Paragraph C, subparagraph 4, sub-subparagraph b, **ADD** the following sub-sub-subparagraph (3) to add unit prices for Test Pits:

"Bid Pkg 01; Shallow Test Pit; 0 – 10 feet deep; Base Bid Quantity: 4, ref: Section 023219; Unit: Each Pit; $ Add: 500.00; $ Deduct: 400.00

Bid Pkg 01; Deep Test Pit; 10.1 – 20 feet deep; Base Bid Quantity: 2, ref: Section 023219; Unit: Each Pit; $ Add: 1850.00; $ Deduct: 1480.00."

Item 5.

SECTION 017830 – WARRANTIES AND BONDS: At Article 1.3 Paragraph F subparagraph 1 **ADD** the following:

"Section No. 086313 Metal-Framed Skylights: 5 years materials and workmanship; 20 years warranty against defects and failure of finish."

Item 6.

SECTION 077100 MANUFACTURED ROOF SPECIALTIES:

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a. **ADD** new Articles 2.7 and 2.8 as follows:
"2.7 ROOF EDGE DRAINAGE SYSTEMS
A. Gutters and Downspouts: Manufactured formed gutter in uniform section lengths not exceeding 12 feet, with mitered and welded or soldered corner units, end caps, outlet tubes, and other accessories. Elevate back edge at least 1 inch above front gutter rim. Furnish with flat-stock gutter straps and gutter support brackets and expansion joints and expansion-joint covers fabricated from same metal as gutters.
1. Fabricate gutter from the following exposed metal:
a. Aluminum: 0.040 inch thick.
2. Gutter Profile: As shown by Drawings.
3. Gutter Accessories: Wire ball downspout strainer.
4. Downspouts: Rectangular closed-face with mitered elbows, manufactured from the following exposed metal. Furnish wall brackets, from same material and finish as downspouts, with anchors.
a. Formed Aluminum: 0.040 inch thick.
2.8 DOWNSPOUT SHOES
A. Downspout Shoes: The basis of design for downspout shoes is Barry Pattern and Foundry Company, Inc. No. B25A cast aluminum downspout adaptor with natural sand cast finish, of size, shape and configuration to fit rectangular downspouts and round storm drains as shown by Drawings. Subject to compliance with requirements provide the named product or a comparable product of one of the following:
1. McKinley Iron Works, Inc.
2. Marlborough Foundry."

b. **ADD** new Articles 3.6 and 3.7 and **RENUMBER** successive Articles.
"3.6 ROOF EDGE DRAINAGE SYSTEM INSTALLATION
A. General: Install gutters and downspouts to produce a complete roof drainage system according to manufacturer's written instructions. Coordinate installation of roof perimeter flashing with installation of roof drainage system.
B. Gutters: Join and seal gutter lengths. Attach gutters to firmly anchored gutter brackets spaced not more than 36 inches apart. Slope gutters to downspouts.
1. Install gutter with expansion joints at locations indicated but not exceeding 50 feet apart. Install expansion joint caps.
C. Downspouts: Join sections with manufacturer's standard telescoping joints. Provide fasteners designed to hold downspouts securely 1 inch away from walls; locate fasteners at top and bottom and at approximately 60 inches o.c. in between.
1. Provide elbows at base of downspout to direct water away from building.
2. Connect downspouts to underground drainage system indicated.
3.7 INSTALLATION OF DOWNSPOUT SHOES
A. Install downspout shoes to connect downspouts to storm drainage system in accordance with manufacturer's recommended installation instructions."

Item 7.

ADD new Section 083326 – OVERHEAD COILING GRILLES consisting of 4 pages issued with this Addendum.

Item 8.

ADD new Section 086313 – METAL FRAMED SKYLIGHTS consisting of 6 pages issued with this Addendum.

Item 9.

SECTION 088000 – GLAZING:
a. At article 1.2 Paragraph A **ADD** new subparagraph 10 to read "10. Laminated glass."
b. At Article 1.4 Paragraph B subparagraph 1 **ADD** new sub-subparagraph f to read:
"f. Probability of Breakage for Sloped Glazing: 1 lite per 1000 for lites set more than 15 degrees off vertical and under wind and snow action.
1) Load Duration: 30 days."
c. At Article 1.6 **ADD** new Paragraph E and **RENUMBER** successive paragraphs. New Paragraph E to read:
"E. Source Limitations for Laminated Glass: Obtain laminated glass from one manufacturer using the same type of glass and laminated membrane for each type of laminated glass indicated."
d. **ADD** new Article 2.6 and **RENUMBER** successive Articles. New Article 2.6 to read:
"2.6 LAMINATED GLASS
A. Laminated Glass: ASTM C 1172, and complying with testing requirements in 16 CFR 1201 for Category II materials, and with other requirements specified. Use materials that have a proven

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record of no tendency to bubble, discolor, or lose physical and mechanical properties after fabrication and installation.
1. Construction: Clear laminated glass with two plies of heat-strengthened float glass and polyvinyl butyral interlayer to comply with interlayer manufacturer's written recommendations.
2. Interlayer Thickness: Provide thickness as needed to comply with requirements but not less than 0.060 inch.
3. Interlayer Color: Clear unless otherwise indicated.
4. Thickness of each ply of glass: 6.0 mm.
5. Overall thickness: 9/16 inch.

B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. PPG Industries
2. Nippon Sheet Glass Co. Ltd: Pilkington
3. Apogee Enterprises, Inc.: Viracon.
4. Guardian Industries."

e. **DELETE** Article 2.8 in its entirety without substitution; there is no glazing film on this project.

Item 10.

SECTION 109000 – SPECIALTIES:
a. At Article 1.2, Paragraph A, **ADD** new subparagraph 6 to read: "6. Stainless Steel Chimney Cap."
b. At Article 1.4, Paragraph C, **ADD** "Stainless Steel Chimney Cap" to list in first sentence.
c. **ADD** new Article 2.8 CHIMNEY CAP as follows:
"2.8 CHIMNEY CAP
A. Chimney Cap: Chimney cap with flat lid and 3/4 inch mesh, all fabricated from type 304 stainless steel sheet, 0.025 inch (24 ga) thickness; size and installation as shown by Drawings, complete with all accessories and fasteners required for a complete installation."

Item 11.

SECTION 264100 – LIGHTNING PROTECTION: At Article 1.3, Paragraph C, **ADD** subparagraph 4 as follows:
"4. Thompson Lightning Protection – Saint Paul, MN."

DRAWINGS

Item 12.

DRAWING C2.1 – SITE UTILITY PLAN:
a. At both sides of Main Entrance, **ADD** storm pipe connections to rain leader downspouts as shown on attached sketch AD4-SK-C2.1-1.
b. **DELETE** proposed catch basin CB# C-8 at northwest corner of building.

Item 13.

DRAWING A1.1A – MAIN LEVEL FLOOR PLAN - SOUTH:
a. At detail 4, **ADD** detail key 28/A5.8 to column enclosure near intersection of column lines Af and A7.
b. At detail 4, **ADD** delineations between tire tile and stone tile flooring in vestibule to coordinate with finish floor drawing, and **ADD** note "provide metal edge at stone/tire tile intersection".

Item 14.

DRAWINGS A1.1A, A1.1B, A1.2A, A1.2B, A1.3A, A1.3B – FLOOR PLANS: **CHANGE** size of expansion joint on east and west sides of building between column lines A7 and 1 from 2" to 3".

Item 15.

DRAWING A1.3B – THIRD FLOOR PLAN - NORTH: At north wall of Stair B **CHANGE** detail key from 6/A2.5 to 6/A2.6.

Item 16.

DRAWINGS A1.4A and A1.4B – ROOF PLANS: **CHANGE** size of expansion joint on east and west sides of building between column lines A7 and 1 from 2" to 3".

Item 17.

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DRAWING A1.4A – ROOF PLAN - SOUTH: **ADD** detail 2 at main entry canopy roof as shown on attached sketch AD4-SK-2/A1.4A.

Item 18.

DRAWING A1.4B – ROOF PLAN - NORTH: **ADD** "see detail 2/S3.11" to end of note regarding new mechanical units (VRFU's) on dunnage between column lines 3 and 4.

Item 19.

DRAWING A2.3 – BUILDING SECTIONS: At section 9 **ADD** the word "similar" to wall section key 2/A2.5.

Item 20.

DRAWING A2.4 – BUILDING SECTIONS: At building section 1, **REVISE** size of expansion joint between column lines A7 and 1 from 2" to 3".

Item 21.

DRAWING A2.8 – WALL SECTIONS:
a. At wall section 13, **REVISE** size of expansion joint between column lines A7 and 1 from 2" to 3" at third floor.
b. **REVISE** third floor ceiling portion of wall section 13 as shown by attached sketch AD4-SK-13/A2.8.

Item 22.

DRAWING A2.9 – WALL SECTIONS:
a. At wall section 16, **DELETE** gwb and metal studs at first floor portion of wall and **REVISE** note to read "3" foil-face rigid insulation mechanically attached to face of concrete"; **ADD** gwb on 8" metal studs (with gap from exterior wall) to coordinate with floor plans.
b. At wall section 17, **ADD** stainless steel chimney cap as shown on attached sketch AD4-SK-17/A2.9 to precast chimney cap.

Item 23.

DRAWING A2.10 – WALL SECTIONS:
a. At wall sections 18 and 19, **REVISE** slab on grade to show a 2½" depression for stone tile flooring, and **ADD** note to read "2½" floor slab depression, see structural drawings".
b. At wall section 20, **ADD** window shade to gwb soffit at head of curtain wall system and **ADD** note to read "provide motor-operated window shade under Supplemental Bid #2".

Item 24.

DRAWING A2.11 – WALL SECTIONS:
a. At wall section 21, **ADD** window shade to gwb soffit at head of curtain wall system and **ADD** note to read "provide motor-operated window shade".
b. At wall section 22, **REVISE** third floor and roof steel framing locations to coordinate with roof detail 4/A3.1 as shown by attached sketch AD4-SK-4/A3.1.
c. At wall section 22A, **REVISE** note regarding depressed concrete slab to read "depress concrete slab for recessed mat (tire tiles), refer to structural drawings".
d. At wall section 22A, **REVISE** slab on grade between edge of recessed mat and curtain wall system to show a 2½" depression for stone tile flooring and **ADD** note to read "2½" floor slab depression, see structural drawings; provide metal edge between stone and tire tile".

Item 25.

DRAWING A2.12 – WALL SECTIONS:
a. At wall section 23, **ADD** note to slab on grade to read "2½" floor slab depression for stone tile flooring, see structural drawings".
b. At wall section 25, at exterior slab on grade, **REVISE** note regarding 4'-0" recessed mat to read "4'-0" recessed aluminum foot grille".

Item 26.

DRAWING A2.13 – WALL SECTIONS:

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a. At wall section 27, at exterior slab on grade, **REVISE** note regarding 4'-0" recessed mat to read "4'-0" recessed aluminum foot grille (1 ½" slab depression)".
b. At wall section 27, at vestibule's slab on grade, **REVISE** note regarding 7'-0" recessed mat to read "7'-0"+/- recessed mat (½" slab depression)".

Item 27.

DRAWING A3.1 – ENLARGED DETAILS:
a. At roof detail 4, **REVISE** dimensions to column line Ab as shown on attached sketch AD4-SK-4/A3.1.
b. At roof details 9 and 10, **DELETE** size of foam rod at expansion joint.

Item 28.

DRAWING A3.2 – ENLARGED DETAILS: At detail 20, **CHANGE** size of expansion joint between column lines A7 and 1 from 2" to 3".

Item 29.

DRAWING A5.3 – DOOR SCHEDULE, DOOR & FRAME TYPES:
a. At double-acting food service door 103A, **REVISE** the following: door material/type is SCW-E in lieu of SCW-A, frame material/type is HM-1 in lieu of AF-1; **DELETE** head and jamb details.
b. At overhead coiling grille 103B, **REVISE** the following: head detail is H11 as shown on attached sketch AD4-SK-A5.5 in lieu of H-X; jamb detail is 18/A7.4 in lieu of J-X.

Item 30.

DRAWING A5.5 – DOOR DETAILS:
a. At jamb detail J10, **ADD** 'align' indicator so that lobby face of fire-rated curtain wall aligns with northern-most face of exterior curtain wall mullion just north of column.
b. At jamb detail J10, at tube column, **ADD** note to read "provide spray fireproofing for one-hour rating".
c. At sill detail S3, **ADD** 'align' indicator so that lobby face of fire-rated curtain wall aligns with exposed face of stone tile base in lobby.
d. At sill detail S3, **REVISE** note regarding cmu to read "6" one-hour rated cmu (UL #U906), grout solid".
e. **ADD** head detail 11 for overhead coiling grille as shown on attached sketch AD4-SK-A5.5.

Item 31.

DRAWING A5.8 – WINDOW DETAILS:
a. **ADD** jamb detail 28 as shown by attached sketch AD4-SK-28/A5.8 entitled Jamb Detail @ Column Cover at Vestibule F149.
b. At sill detail 26, **REVISE** slab on grade to show a 2½" depression for stone tile flooring and **ADD** note to read "2½" floor slab depression, see structural drawings".
c. **ADD** detail 29 at glass canopy as shown by attached sketch AD4-SK-29-30/A5.8.

Item 32.

DRAWING A6.3 – TOILET ROOMS – THIRD FLOOR: At interior elevations 1 through 12, **REVISE** ceramic accent stripe to match bathrooms on other floors: omit 1" strips (CT-2), change CT-3 accent tile to CTA-M at men's rooms and CTA-W women's and unisex rooms as shown by detail C/A6.1, and change floor to bottom of accent dimension to 4'-7¼"+/- (nearest coursing).

Item 33.

DRAWING A6.5 – STAIR PLANS, SECTIONS & DETAILS: **REVISE** Basement Stair section 2 as shown by attached sketch AD4-SK-A6.5.

Item 34.

DRAWING A6.7 – STAIR 'A' PLANS, SECTIONS & DETAILS:
a. At detail A, **ADD** detail key "J10/A5.5" to tube steel column within exterior curtain wall.
b. At section 2, **REVISE** column line label to "A4.5" in lieu of "A5".

Item 35.

DRAWING A7.2 – PLAN DETAILS:

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a. At details 1 and 9, **REVISE** size of expansion joint between column lines A7 and 1 from 2" to 3".
b. At detail 18, **REVISE** 1'-0 5/8" dimension to 1'-1 5/8" between face of gwb and column line EX1 to incorporate 3" expansion joint.

Item 36.

DRAWINGS A9.1A, A9.1B, A9.2A, A9.2B, A9.3A, A9.3B – REFLECTED CEILING PLANS: **CHANGE** size of expansion joint between column lines A7 and 1 from 2" to 3".

Item 37.

DRAWING A9.1B – MAIN LEVEL REFLECTED CEILING PLAN - NORTH: At EMT Lab F124, **ADD** fascia around perimeter of ambulance simulator constructed of 5/8" gwb on 3-5/8" metal studs @ 16" o.c.

Item 38.

DRAWING A9.3B – THIRD FLOOR REFLECTED CEILING PLAN- NORTH: **ADD** one-hour rated gwb shaftwall ceiling to Elevator Controls F359; Warnock Hersey WHI-495 PSH 0154/0167.

Item 39.

DRAWING A11.15 – RESPIRATORY THERAPY, HPS SUITE & HOME CARE LAB: At large scale plan 1, **REVISE** size of expansion joint between column lines A7 and 1 from 2" to 3".

Item 40.

DRAWING S1.1A – MAIN LEVEL, FOUNDATION PLAN, SOUTH: At detail 3, **ADD** note to read "see drawing S5.1 for housekeeping pad detail; coordinate with MEP drawings for locations and sizes".

Item 41.

DRAWING S1.2A – SECOND FLOOR FRAMING PLAN, SOUTH:
a. At detail 1, **REVISE** note regarding housekeeping pads in Mechanical Room to read "see drawing S5.1 for housekeeping pad detail; coordinate with MEP drawings for locations and sizes; note housekeeping pads to be constructed of lightweight concrete".
b. At detail 1, **REVISE** detail key along south exterior wall between column lines Ad and Ae from "3/S3.2" to "3/S3.1".

Item 42.

DRAWING S3.3– FRAMING SECTIONS: At Section 1, **REVISE** size of expansion joint between column lines A7 and 1 from 2" to 3" at second floor.

Item 43.

DRAWING S5.1 – GENERAL NOTES, TYPICAL DETAILS: **ADD** Existing Slab Patch Detail as shown by attached sketch AD4-SK-1.

Item 44.

DRAWING SE.1 – SITE ELECTRICAL PLAN: **REVISE** fiber optic service conduits as shown by attached sketch AD4-SK-SE.1-1.

Item 45.

DRAWING SE.2 – SITE ELECTRICAL DETAILS:
a. **REVISE** fiber optic service conduits detail as shown by attached sketch AD4-SK-SE.2-1.
b. **REVISE** site lighting standards SA3 and SA4 as shown by attached sketch AD4-SK-SE.2-2.

Item 46.

DRAWING EL2.7 – LIGHT FIXTURE SCHEDULE: **REVISE** light fixture types SA3 and SA4 as shown by attached sketch AD4-SK-EL2.7.

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Item 47.

DRAWING TA1.1A – AUDIOVISUAL EQUIPMENT PLAN, MAIN LVL - SOUTH: **DELETE** floor box from Lobby F142 between column lines A6 & A7 and Ad & Ae.

Item 48.

DRAWING TA2.1A – AUDIOVISUAL INFRASTRUCTURE, MAIN LVL - SOUTH: **DELETE** infrastructure related to floor box in Lobby F142 between column lines A6 & A7 and Ad & Ae.

Item 49.

DRAWING TA2.2B – AUDIOVISUAL INFRASTRUCTURE, SECOND FLOOR PLAN - NORTH: At south wall of Mobility Lab F208, **REVISE** junction box "J6" to "J8".

Item 50.

DRAWING TA2.3B – AUDIOVISUAL INFRASTRUCTURE, THIRD FLOOR PLAN - NORTH: At north wall of Respiratory Therapy Lab F351, **ADD** junction box "J6" near Flat Panel Display.

Item 51.

DRAWING TA4.2 – AUDIOVISUAL INFRASTRUCTURE CONDUIT RISER DIAGRAMS:

a. At detail 1 (Conference Rooms), **ADD** note at shade controller to read "room 104 only".
b. At detail 2 **DELETE** conduit from above ceiling to wall mounted items labeled "In Lab 349 only" and wall mounted items labeled "In Lab F349 only".
c. At detail 3 (Scale-Up Classroom), **DELETE** conduit for shade controller.
d. At detail 4 (Lobby and Breakout), **DELETE** floor box and **ADD** conduit above ceiling to location of Kiosk at Lobby F142. Coordinate with electrical.
e. At detail 5, **REVISE** title to read "AV Conduit Riser Diagram for Student Lounge/Commons F241".
f. At detail 5, **ADD** "typical for 1 of 2" to wall-mounted flat panel display.

Item 52.

DRAWING TA4.4 – AUDIOVISUAL INFRASTRUCTURE CONDUIT RISER DIAGRAMS:

a. At detail 4 (Surg-Tech O.R.), **ADD** note to read "work shown is for supplemental bid #3".
b. At detail 5 (Respiratory Therapy) **ADD** conduit and junction box as shown by attached sketch AD4-SK-TA4.4-2.

Item 53.

DRAWING TA5.1 – TECHNOLOGY ELEVATIONS:

a. **ADD** General Notes to read as follows:
   "1. All dimensions shall be coordinated with all other wall-mounted appurtenances and approved by Architect/Engineer/Owner prior to installation.
   2. AV equipment, such as flat panel displays and projection screen roller/fabric assemblies, will be provided under separate future FFE contract."
b. At elevation 16 (Respiratory Therapy), **REVISE** dimension from left wall to centerline of screen to 132"+/- (in lieu of 160").
c. At elevation 17 (Respiratory Therapy), **ADD** control panel "J6" at 48 inches AFF near flat panel display and **REVISE** dimension from wall to centerline of flat panel display to 36"+/- in lieu of 40".

BIDDER QUESTIONS AND ANSWERS

Item 54.

RFI 0001: GLASS/CURTAIN WALL QUESTIONS

1. Please provide a sill detail at window type B.
   A. See detail 24/A5.8.

2. Detail Q on A5.8 shows a horizontal with aluminum panel. We don't see this detail on A5.6. Please clarify.
   A. Detail refers to Insulated Metal Panels installed in curtain wall system.

3. Confirm that bid package 15 includes "furnish only" automatic operators on aluminum doors.
   A. Please refer to Item #20 and #21 in window bid package. The Bid Package 8 General Trades shall install.

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4. Aluminum door type A is a flush panel door, no flush panel door is specified in section 084113. Would special lite be acceptable for these doors?
   A. Provide insulated flush aluminum door with aluminum faces; finish to match aluminum storefront and curtain wall systems.

5. Frame BL4 on A5.4 calls for leaded glass, there is no specification for this.
   A. See Specification Section 134913.

6. Are interior aluminum doors and vestibule frames to be glazed with ¼" or 1" glass?
   A. See note on sheet A5.3 "glazing schedule".

7. What is the frame type for doors 141C and 141D in vestibule F141?
   A. See Door Schedule, listed as AL*B (aluminum, window type B as shown on sheet A5.6).

8. Openings on page 7 of the bid package makes reference to section 084113, this does not exist. Please advise.
   A. Section 084113 is in Volume 2 of the specifications.

9. Who is responsible for the laminated glass canopy shown on 8/A2.2 and is there a spec?
   A. Refer to this Addendum No. 4 Items 8 and 9a, b, c, d for laminated glass canopy. Bid Package 15 will provide and install glass and mounting accessories complete for the canopy. Bid Package #7 Miscellaneous Metals shall provide and install outrigger framing, rod support and other miscellaneous items for the canopy structure.

10. Please advise the locations of glazing film shown in Section 088000 Article 2.8.
    A. Glazing film is not used. Refer to Item 9e of this Addendum.

Item 55.

RFI 0002: INTERIOR ALUMINUM FRAMES AND BORROWED LIGHT SOW

1. I was hoping that you could clarify who owns the scope of work, spec section 081116 Interior Aluminum Frames. This spec is in the glazing package, but appears to fall more into the partition wall package. Please clarify.
   A. The Spec section is included in both Trade Package 8 and 15.
   A. Bp#15 to provide and install aluminum frames coordinate with BP#8 General Trades and or BP#5 Masonry for rough opening and blocking requirements.

Item 56.

RFI 0003: ELECTRICAL SCOPE OF WORK

1. Please confirm that all low voltage wiring for the Access Control, CCTV, and Audio Visual Systems will be provided by others and not the electrical contractor, who provides the conduits, back boxes, and 110V power to those systems.
   A. Confirmed. The Owner will provide low voltage wiring for these systems under separate contract.

Item 57.

RFI 0004: ABATEMENT SOW AND INSPECTION REPORTS

1. I can't seem to find info regarding environmental site work or hazardous building materials inspections (specified as bid package #1). Have these services been performed already or is there still a need for them. If already performed, by whom?
   A. Refer to Addendum 1 Items 2, 3, 4, 5, 6, 7 and 8; and Addendum 2.

Item 58.

RFI 0005: FLOOR LEVELING

1. What is the criteria for the floor leveling as described in Item # 39? On the 1st floor there is approximately a 1 ½" difference in some areas of the floor with up to 3" on the 2nd floor. If we level the floors will the existing steel support the additional weight?
   A. Please refer to the floor elevations listed and shown following Specification Section 035416-Typical deflection at the first and third floor ***slab areas to remain*** is closer to ½", well within the structural capabilities of the existing framing. Please refer to the demolition and structural drawings for limited areas of total slab and floor framing replacement

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typical at the north and south ends of the main corridor. The intent is to provide a new, smooth and level surface from which to install new finishes after abatement and demolition activities are completed. Minor deviations due to existing building settlement over the full length of the main or upper floors will be acceptable.

2. Is the existing floor expansion joint system to remain?
   A. No; remove and replace with new expansion joint.

Item 59.

RFI 0006: DOORS/FRAMES/HW

1. On the door schedule the Traffic Doors are shown to be noted by “DBL ACT”. This note does not show up on the door schedule. Please advise which doors are to be double action traffic doors.
   A. Refer to this Addendum No. 4 Item 29 for Food Service Door 103A.

Item 60.

RFI 0006: GENERAL TRADES SOW

1. The “Trade Description” for General Trade package lists all Division 2 demolition as being carried in our package, but note 2 under “Miscellaneous Scope of Work to be included” does not state anything about Division 2. Please advise.
   A. Bid Package #2 Demolition and Abatement Contractor will provide all remaining demolition and abatement work. These divisions are noted for coordination purposes in other bid packages.:

Item 61.

RFI 0007: OVERHEAD DOORS

1. There is no spec for the "counter door" The door is located in food service. Section 081113 is for steel pass through doors and frames not OHD's.
   A. Refer to this Addendum No. 4 Item 7 for Overhead Coiling Grille (door 103B).

Item 62.

RFI 0008: WINDOW LINTELS

1. It calls for both bid package 6 and bid package 7 to furnish and install window header lintels. Which one is responsible?
   A. Bid Package 6 is to furnish and install as noted in item #26 of their scope. Bid Package #7 shall delete scope item #26 from their scope.:

Item 63.

RFI 0009: CONCRETE

1. Spec Section 030130.23, where does this occur?
   A. Single-Component, Polymer-Modified Repair Mortar is noted as “parging” at the existing areaway. See building elevation 6/A2.1. All exposed existing concrete areaway walls (4 sides of areaway) are to receive this system.

2. Section 034500, (Arch Precast Concrete) what work falls under bid package #4 and what is under Bid package #5?
   A. Bid Package #5 Masonry to provide and install all Architectural Precast. Bid Package #6 Structural Steel, item 39 will provide and install precast for exterior building brace frames. Bid package #4 does not have any Architectural precast work only coordination with other trades.

3. Section 079813, which part of BP#4 and what is part of BP#5?
   A. There is no specification section 07 98 13, if you are referring to 07 95 13, furnish and install any Architectural Joint systems within your work such as expansion joint systems in slabs.:

4. Section 072100 (building insulation), is the perimeter insulation part of the site work bid package?
   A. Yes, BP#1 Site Contractor per their scope of work item #55 is to provide and install foundation wall and slab insulation.:

5. What bid package provides the piles, no specs available
   A. Refer to Addendum No. 2 Item 3 for Section 316213 – DRILLED PIERS. Bid Package #4 Concrete is to provide and install, see scope item #36 in BP#4.

ADDENDUM NO.: 4.0 **DATE OF ADDENDUM: November 4, 2014**

6. What section refers to the schedule?
   A. The schedule is in addendum #1 but is not marked with a section #. Please number as 00 41 03.01.:

7. Does the site contractor provide the pad/slab at the generator enclosure?
   A. No, BP#4 Concrete item #42 is to provide the foundations and slab on grade for the generator enclosure.:

8. Which bid package covers the mud slab?
   A. BP#4 Concrete is responsible to furnish and install the mud slab.:

9. Is there wall water proofing at the underpinning?
   A. Yes.

10. What bid package patches rite plumbing trenches (existing building plumbing drawing PL1.0B?
    A. Bid Package #2 Demolition and Abatement shall cut and demo, Bid Package #1 Site shall excavate and backfill, BP#4 Concrete shall patch slabs:

All questions must be in writing by e-mail or fax (not phone) and must be forwarded to the Construction Manager (Edward Barrett, ebarrett@morganti.com, fax 203-790-6138) The Construction Manager, The Morganti Group, Inc. will review your questions in conjunction with the Owner and Architect and reply by addendum only
Last day for questions was November 3, 2014.

End of Addendum Four

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes electric-motor-operated overhead coiling grilles.

B. Related Sections include the following:

1. Division 5 Section "Metal Fabrications" for miscellaneous steel supports.
2. Division 26 Sections for electrical service and connections for powered operators, and accessories.

1.3 PERFORMANCE REQUIREMENTS

A. Operation-Cycle Requirements: Provide overhead coiling grille components and operators capable of operating for not less than 20,000 cycles.

1.4 SUBMITTALS

A. Product Data: For each type and size of overhead coiling grille and accessory. Include summary of forces and loads on walls and jambs.

B. Shop Drawings: For special components and installations not dimensioned or detailed in manufacturer's product data.

C. Samples for Initial Selection: Manufacturer's color charts showing full range of colors available for units with factory-applied finishes.

D. Samples for Verification: Of each type of exposed finish required, prepared on Samples of size indicated below.

1. Grille Curtain: 12-inch- (305-mm-) square assembly with rods, spacers, and vertical links.
2. Bottom Bar: 6 inches (150 mm) long.
3. Guides: 6 inches (150 mm) long.
4. Brackets: 6 inches (150 mm) square.

E. Qualification Data: For Installer.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for both installation and maintenance of units required for this Project.

B. Source Limitations: Obtain overhead coiling grilles through one source from a single manufacturer. Obtain operators and controls from overhead coiling grille manufacturer.

C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturer: Subject to compliance with requirements, provide products by one of the following:

1. McKeon Rolling Steel Door Company, Inc.
2. Overhead Door Corp.
3. Raynor.

4. Windsor Door; a MAGNATRAX Corporation.

2.2 GRILLE CURTAIN MATERIALS AND CONSTRUCTION

A. General: Fabricate overhead coiling grille curtain consisting of a network of 1/4-inch- (6-mm-) minimum diameter horizontal rods, or rods covered with tube spacers, spaced as indicated. Interconnect rods by vertical links approximately 5/8 inch (16 mm) wide, spaced as indicated and rotating on rods. Space rods at approximately 1-1/2 inches (38 mm) o.c. Space links approximately 3 inches (76 mm) apart in a straight in-line pattern. Fabricate grille curtain from ASTM A 666 300-series stainless steel.

B. Endlocks: Continuous end links, chains, or other devices at ends of rods; locking and retaining grille curtain in guides against excessive pressures, maintaining grille curtain alignment, and preventing lateral movement.

C. Bottom Bar: Manufacturer's standard continuous channel, tubular shape, or two angles, finished to match grille.

1. Astragal: Provide a replaceable, adjustable, continuous, compressible gasket of flexible vinyl, rubber, or neoprene; for placement between angles or fitted to shape, as a cushion bumper for grille.

2. Provide motor-operated grilles with combination bottom astragal and sensor edge.

D. Grille Curtain Jamb Guides: Manufacturer's standard extruded-aluminum shape having curtain groove with return lips or bars to retain curtain. Provide continuous integral wear strips to prevent metal-to-metal contact and to minimize operational noise; with removable stops on guides to prevent overtravel of curtain.

2.3 HOODS AND ACCESSORIES

A. Hood: Form to entirely enclose coiled curtain and operating mechanism at opening head. Contour to fit end brackets to which hood is attached. Roll and reinforce top and bottom edges for stiffness. Provide closed ends for surface-mounted hoods, and provide fascia for any portion of between-jamb mounting projecting beyond wall face. Provide intermediate support brackets as required to prevent sagging. Fabricate hoods for stainless-steel grilles of minimum 0.025-inch- (0.65-mm-) thick stainless-steel sheet, Type 300 series, complying with ASTM A 666. Provide removable metal soffit of same material and finish as curtain if hood is mounted above ceiling, unless otherwise indicated.

B. Push/Pull Handles: For push-up-operated or emergency-operated grilles, provide manufacturer's standard lifting handles on each side of grille. Provide pull-down straps or pole hooks for grilles more than 84 inches (2130 mm) high.

C. Fabricate locking device assembly with lock, spring-loaded dead bolt, operating handle, cam plate, and adjustable locking bar to engage through slots in tracks.

1. Locking Bars: Full-disc cremone type, both jamb sides, operable from inside only.

2. Lock cylinder is specified in Division 8 Section "Door Hardware."

D. If grille curtain is power operated, provide safety interlock switch to disengage power supply when grille is locked.

E. Mounting Tube Frame: Provide manufacturer's standard mounting tube frame designed to support grille; factory fabricated from structural-steel tubes; fastened to floor and structure above grille; to be built into wall construction; and complete with anchors, connections, and fasteners.

2.4 COUNTERBALANCING MECHANISM

A. General: Counterbalance grille curtain by means of adjustable-tension, steel helical torsion spring mounted around a steel shaft and contained in a spring barrel connected to grille curtain with barrel rings. Use grease-sealed bearings or self-lubricating graphite bearings for rotating members.

B. Counterbalance Barrel: Fabricate spring barrel of hot-formed, structural-quality, welded or seamless carbon-steel pipe, of sufficient diameter and wall thickness to support rolled-up grille

curtain without distortion of curtain and to limit barrel deflection to not more than 0.03 in./ft. (2.5 mm/m) of span under full load.

C. Provide spring balance of one or more oil-tempered, heat-treated steel helical torsion springs. Size springs to counterbalance weight of grille curtain, with uniform adjustment accessible from outside barrel. Provide cast-steel barrel plugs to secure ends of springs to barrel and shaft.

D. Fabricate torsion rod for counterbalance shaft of cold-rolled steel, sized to hold fixed spring ends and carry torsional load.

E. Brackets: Provide mounting brackets of manufacturer's standard design, either cast iron or cold-rolled steel plate.

2.5 ELECTRIC GRILLE OPERATORS

A. General: Provide electric grille operator assembly of size and capacity recommended and provided by grille manufacturer for grille specified, with electric motor and factory-prewired motor controls, starter, gear-reduction unit, solenoid-operated brake, clutch, remote-control stations, control devices, integral gearing for locking grille, and accessories required for proper operation.

B. Comply with NFPA 70.

C. Disconnect Device: Provide hand-operated disconnect or mechanism for automatically engaging chain and sprocket operator and releasing brake for emergency manual operation while disconnecting motor, without affecting timing of limit switch. Mount disconnect and operator so they are accessible from floor level. Include interlock device to automatically prevent motor from operating when emergency operator is engaged.

D. Design operator so motor may be removed without disturbing limit-switch adjustment and without affecting emergency auxiliary operator.

E. Provide control equipment complying with NEMA ICS 1, NEMA ICS 2, and NEMA ICS 6, with NFPA 70 Class 2 control circuit, maximum 24-V, ac or dc.

F. Grille-Operator Type: Provide wall-, hood-, or bracket-mounted, jackshaft, gear-head-type grille operator unit consisting of electric motor, enclosed worm-gear running-in-oil primary drive, and chain and sprocket secondary drive; with quick disconnect-release for manual operation.

G. Electric Motors: Provide high-starting torque, reversible, continuous-duty, Class A insulated, electric motors complying with NEMA MG 1; with overload protection; sized to start, accelerate, and operate grille in either direction from any position, at not less than 2/3 fps (0.2 m/s) and not more than 1 fps (0.3 m/s), without exceeding nameplate ratings or service factor.

1. Type: Polyphase, medium-induction type.
2. Service Factor: According to NEMA MG 1, unless otherwise indicated.
3. Coordinate wiring requirements and electric characteristics of motors with building electrical system.
4. Provide open dripproof-type motor, and controller with NEMA ICS 6, Type 1 enclosure.
5. Provide totally enclosed, nonventilated or fan-cooled motor, fitted with plugged drain, and controller with NEMA ICS 6, Type 4 enclosure where indicated.

H. Remote-Control Station: Provide sustained-pressure, three-button control station with push-button controls labeled "Open," "Close," and "Stop." Provide interior units, full-guarded, surface-mounted, heavy-duty type, with general-purpose NEMA ICS 6, Type 1 enclosure.

I. Obstruction Detection Device: Provide each motorized grille with indicated external automatic safety sensor capable of protecting full width of grille opening. Activation of sensor immediately stops and reverses downward grille travel.

1. Photoelectric Sensor: Manufacturer's standard system designed to detect an obstruction in grille opening without contact between grille and obstruction.

J. Limit Switches: Provide adjustable switches, interlocked with motor controls and set to automatically stop grille at fully opened and fully closed positions.

K. Provide electric operators with ADA-compliant audible alarm and visual indicator lights.

L. Emergency Egress Release: Provide grille with flush, wall-mounted handle mechanism, for ADA-compliant egress feature, not dependent on electric power, that allows grille to open to permit passage and automatically resets motor drive, without affecting limit switches, with return of handle to original position.

2.6 FINISHES, GENERAL

A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.7 STAINLESS-STEEL FINISHES

A. General: Remove or blend stretch lines and tool and die marks into finish. Grind and polish surfaces to produce uniform, directionally textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.

B. Bright, Directional Polish: No. 4 finish.

C. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General: Install grilles and operating equipment, complete with necessary hardware, according to Shop Drawings, manufacturer's written instructions, and as specified.

3.2 ADJUSTING

A. Lubricate bearings and sliding parts; adjust grilles to operate easily, free of warp, twist, or distortion and with tight fit around entire perimeter.

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 safeties. Replace damaged and malfunctioning controls and equipment.

3.4 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain overhead coiling grilles. Refer to Division 1 Section "Closeout Procedures."

END OF SECTION 08 33 26

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes four-sided, structural-sealant-glazed, aluminum-framed skylights.

B. Related Section: Division 8 Section "Glazing" for glazing installed in metal-framed skylights.

1.3 PERFORMANCE REQUIREMENTS

A. General: Provide metal-framed skylights capable of withstanding loads and thermal and structural movements indicated without failure.

B. Delegated Design: Design aluminum-framed systems, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.

C. Structural-Sealant Glazing: Structural silicone sealant does not carry gravity load of glazing. Tensile and shear stress in structural silicone sealant joints is less than 20 psi. Structural silicone sealant joints accommodate thermal and mechanical movement, prevent glazing-to-glazing contact, and maintain required glazing-edge clearances. Structural silicone sealant fails cohesively before sealant releases from substrate when tested for adhesive compatibility with each substrate and joint condition required.

D. Deflection Limits: As follows:

1. Deflection of framing members normal to glazing plane: not more than the lesser of 1/180 of clear span or 3/4 inch. For spans exceeding 20 feet max of 1/240 of clear span.

2. Deflection of framing members parallel to glazing plane, when carrying full dead load shall be not more than an amount which reduces glazing bite below 75 percent of design dimension or an amount which reduces edge clearance between framing members and glazing or other fixed components to less than 1/8 inch (3.2 mm).

E. Lateral Support: Compression flanges of flexural members are laterally braced by cross members with minimum depths equal to 50 percent of flexural member depth and by anchors to the building structure. Glazing material does not provide lateral support.

F. Structural Loads: Provide metal-framed skylights, including anchorage, capable of withstanding the effects of the following design loads when supporting full dead loads:

1. Wind Loads: As indicated by structural design data on Drawings.

2. Snow Loads: As indicated by structural design data on Drawings.

3. Concentrated Roof Load: 250 lbf applied to framing members to produce the most severe stress or deflection.

4. Seismic Loads: As indicated by earthquake design data on Drawings.

G. Fall-Through Protection: Per 29 CFR Part 1910 and 29 CFR Part 1926. Weight of employee and tools shall be taken as not less than 300 lbs.

H. Structural Performance of Skylights: Capable of withstanding test pressure indicated without material and deflection failures and permanent deformation of structural members exceeding 0.2 percent of span when tested according to ASTM E 330.

1. Test Pressure: 150 percent of positive and negative wind-load design pressures.

2. Test Duration: As required by design wind velocity.

I. Thermal Movement: Allow for thermal movements resulting from the following maximum change in ambient and surface temperatures without failure due to buckling or sealant failure:

1. Temperature Change (Range): 120 deg F, ambient; 180 deg F material surfaces.

J. Water Penetration: No water penetration when tested according to ASTM E 331 at a minimum differential static pressure of 20 percent of positive design wind load, but not less than 6.24 lbf/sq. ft..

1.4 SUBMITTALS

A. Product Data: Include construction details, material descriptions, dimensions and profiles of components, and finishes for metal-framed skylights.

B. Shop Drawings: For metal-framed skylights. Include plans, elevations, sections, details, structural analysis signed and sealed by qualified Professional Engineer and attachments to other Work. Demonstrate compliance with opening protection requirements specified herein either through testing by qualified testing agency or by rational analysis signed and sealed by qualified structural engineer.

C. Samples for Initial Selection: Manufacturer's color charts consisting of sections of units showing the full range of colors available for factory-finished aluminum.

D. Samples for Verification: For each exposed aluminum finish required, on 12-inch- long sections of extrusions or formed shapes in same thickness and material indicated for the Work. Include sample sets showing the full range of variations expected.

E. Cutaway Sample: Of framing intersection, made from 12-inch- long lengths of full-size components and showing primary members, joinery, anchorage, expansion provisions, glazing, flashing and drainage and structural-sealant joints.

F. Installer Certificates: Signed by manufacturer certifying installers comply with requirements.

G. Preconstruction Test Reports: Show compliance with requirements.

H. Product Test Reports: From a qualified testing agency indicating skylights comply with requirements, based on comprehensive testing of current products.

I. Sealant Compatibility and Adhesion Test Reports: From sealant manufacturer indicating that materials forming joint substrates and joint sealant backings have been tested for compatibility and adhesion with sealants; include sealant manufacturer's interpretation of test results for sealant performance and recommendations for primers and substrate preparation needed for adhesion.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer to assume engineering responsibility who has specialized in installing metal-framed skylights similar to those indicated for this Project and who is acceptable to manufacturer.

B. Engineering Responsibility: Preparation of Shop Drawings, testing and test result interpretation, and comprehensive engineering analysis by a qualified professional engineer.

C. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services performed for installations of skylights similar to those indicated for this Project in material, design, and extent.

D. Product Options: Drawings indicate size, profiles, and dimensional requirements of metal-framed skylights and are based on the specific skylight systems indicated. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

E. Welding: Qualify procedures and personnel according to AWS D1.2, "Structural Welding Code--Aluminum."

F. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Meetings." Review methods and procedures related to metal-framed skylights including, but not limited to, the following:

1. Condition of substrate and other preparatory work performed by other trades.
2. Structural load limitations.
3. Skylight curb structural requirements.
4. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
5. Review required testing procedures.
6. Review weather conditions and procedures for unfavorable conditions.
7. Review protection of adjacent roof areas.

1.6 PROJECT CONDITIONS

A. Field Measurements: Verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1.7 WARRANTY

A. General Warranty: Special warranty specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Special Warranty: Written warranty, executed by manufacturer agreeing to repair or replace components of metal-framed skylights that fail in materials or workmanship within specified warranty period. Failures include, but are not limited to structural and sealant failures; failure of systems to meet performance requirements; deterioration of metals, metal finishes, and other materials beyond normal weathering; and water leakage defined as uncontrolled water appearing on normally exposed interior surfaces of skylights from sources other than condensation. Water controlled by flashing and gutters and drained back to the exterior and that cannot damage adjacent materials or finishes is not water leakage.

1. Warranty Period: As specified in Section 017830 “Warranties and Bonds”.

C. Special Finish Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components on which finishes fail within specified warranty period. Warranty does not include normal weathering.

1. Warranty Period: As specified in Section 017830 “Warranties and Bonds”.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. CPI Daylighting, Inc.
2. Linel.
3. Super Sky Products, Inc.

2.2 FRAMING MATERIALS

A. Aluminum: Alloy and temper recommended by manufacturer for use and finish indicated, and as follows:

1. Extrusions: ASTM B 221.
2. Sheet and Plate: ASTM B 209.
3. Bars, Rods, and Wire: ASTM B 211.

B. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum brackets and reinforcements. Provide nonstaining, nonferrous shims to install and align skylights.

C. Concealed Flashing: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding flashing; compatible with adjacent materials.

D. Exposed Flashing and Closures: Aluminum sheet, not less than 0.060 inch thickness.

E. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories; compatible with adjacent materials.

1. Movement Joints: Provide slip-joint linings, spacers, and sleeves of material and type recommended by manufacturer.
2. Connections to Supporting Structure: ASTM A 307, hot-dip galvanized steel fasteners.
3. Anchor Bolts: ASTM A 307, Grade A, hot-dip zinc coating, ASTM A 153, Class C.
4. Where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration, use self-locking devices.
5. Exposed Fasteners: Where fasteners are exposed to view provide fasteners with countersunk Phillips screw heads with exposed portions finished to match framing.

F. Framing-System Gaskets and Joint Fillers: Manufacturer's standard permanent gaskets and joint fillers for sliding, compression, and nonmoving joints.

G. Framing-System Sealants: Compatible with components with which sealants come in contact and recommended in writing by skylight and sealant manufacturers for this use.

2.3 GLAZING MATERIALS

A. Laminated Glass: As specified in Division 8 Section "Glazing."

B. Spacers, Edge Blocks, and Setting Blocks: Manufacturer's standard permanent nonmigrating type of elastomer type and hardness selected to comply with requirements and compatible with silicone sealants.

C. Structural Silicone Sealant: ASTM C 1184, compatible with components with which sealant comes in contact, formulated and tested for use as a structural sealant, and neutral curing.

1. Color: Black.
2. Tensile Strength: 100 psi minimum.
3. Provide sealant with modulus of elasticity that will not allow movement of more than 25 percent of joint width, unless less movement is required by skylight systems' design.

D. Weatherseal Sealant: Neutral-curing silicone sealant recommended in writing by skylight and sealant manufacturers for this use.

1. Sealant: Withstand 50 percent movement in both extension and compression when tested for adhesion and cohesion under maximum cyclic movement according to ASTM C 719 and that complies with ASTM C 920 for Type S, Grade NS Uses NT, G, A and O.
2. Color: Black.

2.4 FABRICATION

A. Framing Components: As follows:

1. Fabricate components that, when assembled, will have accurately fitted joints with ends coped or mitered to produce hairline joints free of burrs and distortion.

2. Fabricate components with internal guttering or other means to drain water passing joints and to drain condensation and moisture within skylight system to the exterior.
3. Fabricate components to accommodate expansion, contraction, and field adjustment, and to provide for minimum clearance and shimming at skylight perimeter.
4. Ensure that glazing is thermally and physically isolated from framing members.
5. Form shapes with sharp profiles, free of defects or deformations, before finishing.
6. Fit and assemble components to greatest extent practicable before finishing.
7. Fit and secure joints with screw and spline, internal reinforcement, or welding.
8. Reinforce members as required to retain fastener threads.
9. Weld components before finishing and in concealed locations to greatest extent practicable to minimize distortion.
10. Before shipping, shop assemble, mark, and disassemble components that cannot be permanently shop assembled. Clearly mark components to identify their locations in Project according to Shop Drawings.

B. Fabricate aluminum sill closures with weep holes and for installation as continuous component. Provide continuous aluminum curb with weatherproof expansion joints and locked and sealed or fully welded corners. Locate weep holes in the curb at each rafter connection to drain condensation. Prepare framing to receive anchor and connection devices and fasteners.

C. Metal Protection: Protect aluminum against galvanic action by painting contact surfaces with dissimilar metals with primer or by applying sealant or tape recommended by manufacturer for this purpose.

D. Structural Silicone Sealant Glazing: Glaze at Factory. Prepare surfaces that contact sealant and install sealant according to sealant manufacturer's written instructions. Preparation includes, but is not limited to, cleaning and priming. Mechanically fasten glazing until sealant cures. Clean excess sealant from surfaces before sealant cures. Do not transport units until sealant has cured.

2.5 ALUMINUM FINISHES

A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. High-Performance Organic Finish AA-C12C42R1x: Acid-chromate-fluoride-phosphate conversion coating. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

1. Fluoropolymer Two Coat System: Manufacturer's standard two-coat, thermocured system consisting of specially formulated primer and fluoropolymer color topcoat containing not less than 70 percent PVDF resin by weight; complying with AAMA 2605.
    a. Color and Gloss: As selected by Architect from custom colors.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting skylight performance. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Metal Protection: Protect dissimilar metals against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended by manufacturer for this purpose.

3.3 INSTALLATION

A. General: Comply with manufacturer's written instructions for protecting, handling, and installing skylight components. Do not install damaged components. Fit frame joints to produce hairline joints free of burrs and distortion. Rigidly secure nonmovement joints. Accommodate thermal and mechanical movements. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints. Weld components in concealed locations to minimize distortion or discoloration of finish. Protect glazing surfaces from welding. Seal joints watertight, unless otherwise indicated. Install framing components to drain water passing joints and to drain condensation and moisture occurring or migrating within skylight system to the exterior. Coordinate installation of insulation and flashings at skylight perimeters to maintain continuity of thermal and water barriers. Set continuous curbs and flashings in a full sealant bed, unless otherwise indicated. Comply with requirements in Division 7 Section "Joint Sealants."

B. Erection Tolerances: Install skylight components true in plane, accurately aligned, and without warp or rack. Adjust framing to comply with the following tolerances:

1. Variation from Plane: Limit variation from plane or location shown to 1/8 inch in 10 feet; 1/4 inch over total length.

2. Alignment: Where surfaces abut in line and at corners and where surfaces are separated by less than 3 inches, limit offset from true alignment to less than 1/32 inch; otherwise, limit offset from true alignment to 1/8 inch.

C. Install secondary-sealant weatherseal according to sealant manufacturer's written instructions to provide weatherproof joints. Install joint fillers behind sealant as recommended by sealant manufacturer.

3.4 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform field quality-control tests and to prepare test reports.

B. Sealant Adhesion Tests: Test installed sealant in a minimum of two areas. Test structural silicone sealant according to field adhesion test method described in AAMA CW 13, "Structural Sealant Glazing Systems (A Design Guide)." Test weatherseal sealant as recommended in writing by sealant manufacturer.

C. Water-Spray Test: Test skylights for compliance with requirements according to procedures in AAMA 501.2.

D. Water Penetration: Test skylights for compliance with requirements according to AAMA 503, which requires testing according to ASTM E 1105.

1. Uniform Static-Air-Pressure Difference: 20 percent of positive design wind load, but not less than 6.24 lbf/sq. ft..

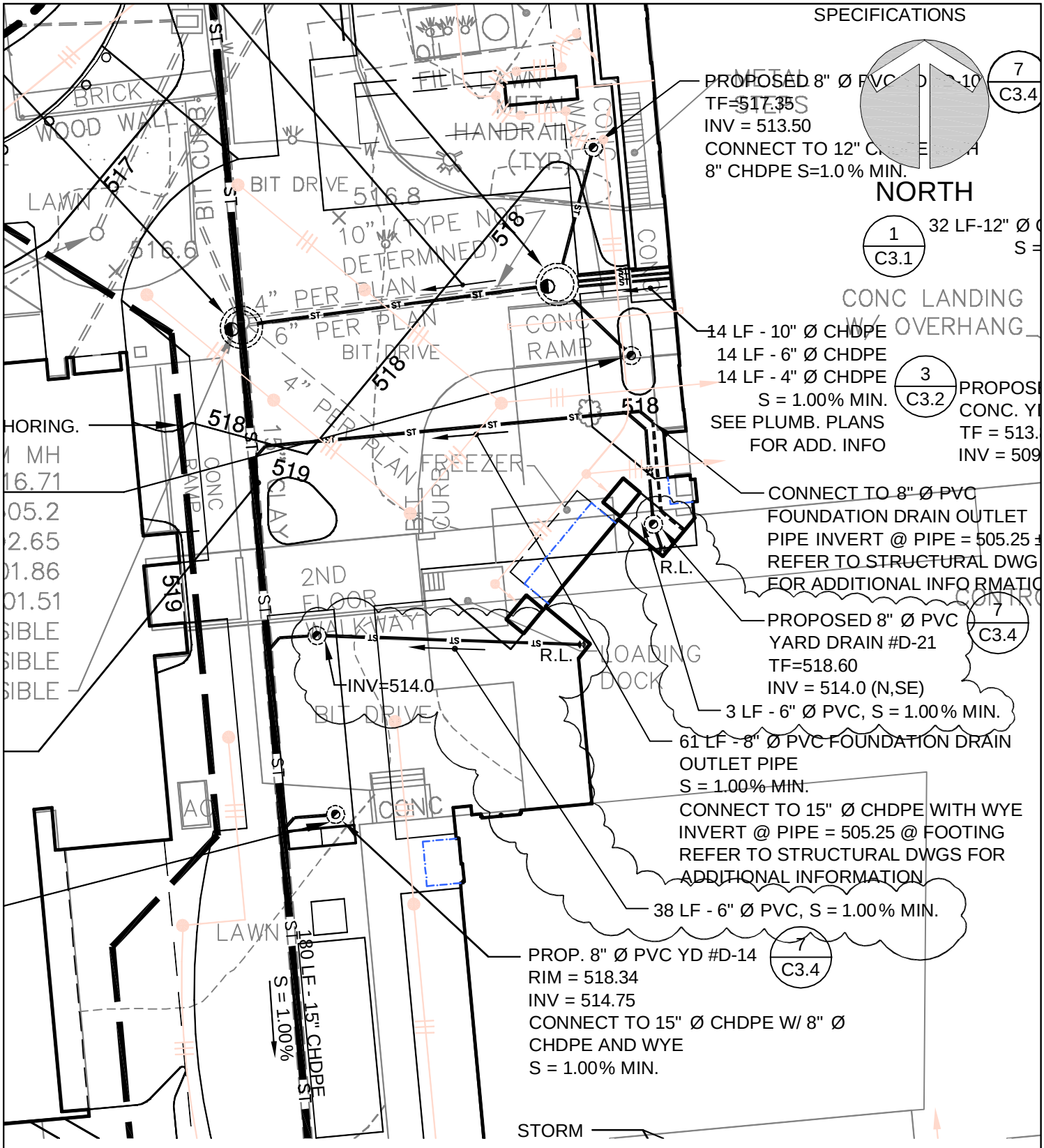
E. Repair or replace Work that does not meet requirements or that is damaged by testing; repair or replace to comply with specifications.

3.5 CLEANING

A. Clean skylights inside and outside, immediately after installation and after sealants have cured, according to manufacturer's written recommendations. Remove temporary protective coverings and strippable coatings from prefinished metal surfaces. Remove labels and markings from all components.

B. Remove excess sealant according to sealant manufacturer's written recommendations.

END OF SECTION 08 63 13



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moser pilon nelson architects
30 JORDAN LANE
WETHERSFIELD, CT. 06109
860 563 6164

PROJECT TITLE
Naugatuck Valley Community College
Founders Hall Renovations for
Allied Health and Nursing

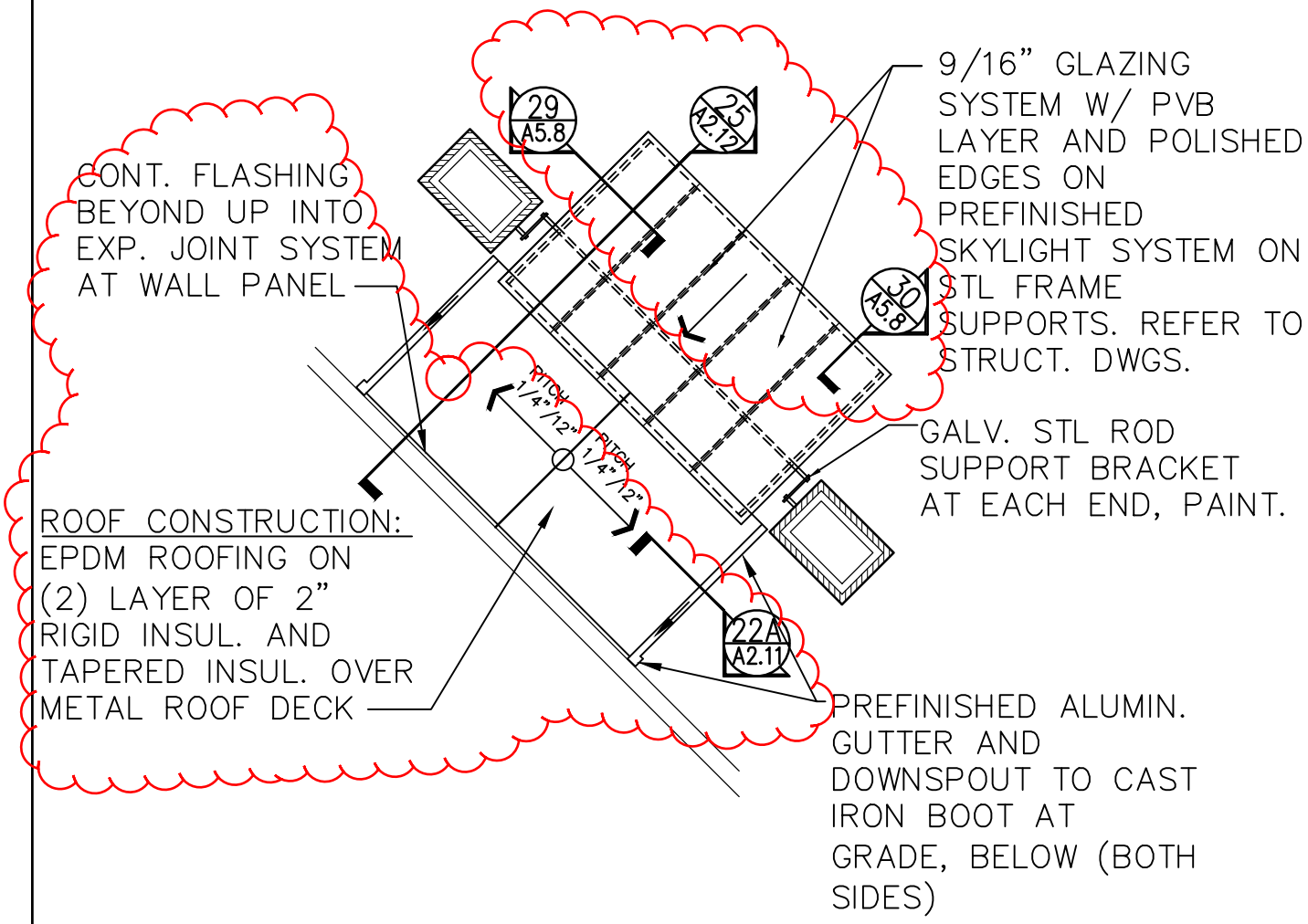
PROJECT NO BI-CTC-442

SKETCH TITLE
ADDITIONAL STORMWATER PIPING
FROM CANOPY RAIN LEADERS

DATE 10/31/2014

SCALE: 1" = 20'

SKETCH NO.
AD4-SK-C2.1-1



2 / A1.4A ROOF PLAN - ENTRY CANOPY WEST

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

moser pilon nelson architects
30 JORDAN LANE
WETHERSFIELD, CT. 06109
860 563 6164

PROJECT TITLE
Naugatuck Valley Community College
Founders Hall Renovations for
Allied Health and Nursing

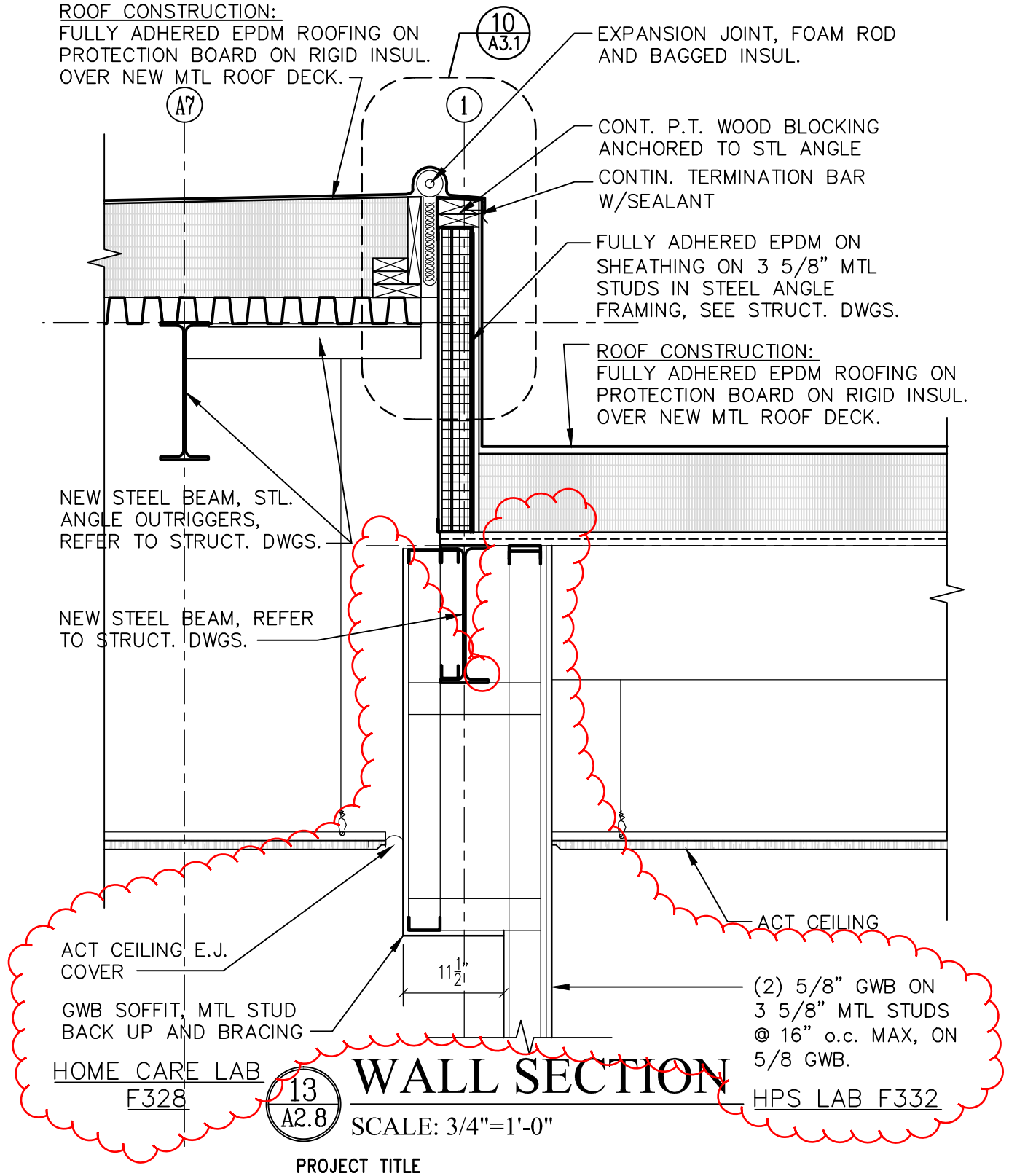
PROJECT NO BI-CTC-442

SKETCH TITLE
ROOF PLAN- ENTRY CANOPY WEST

DATE 11/04/2014

SCALE: AS NOTED

SKETCH NO.
AD4-SK-2/A1.4A



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PROJECT TITLE
Naugatuck Valley Community College
Founders Hall Renovations for
Allied Health and Nursing

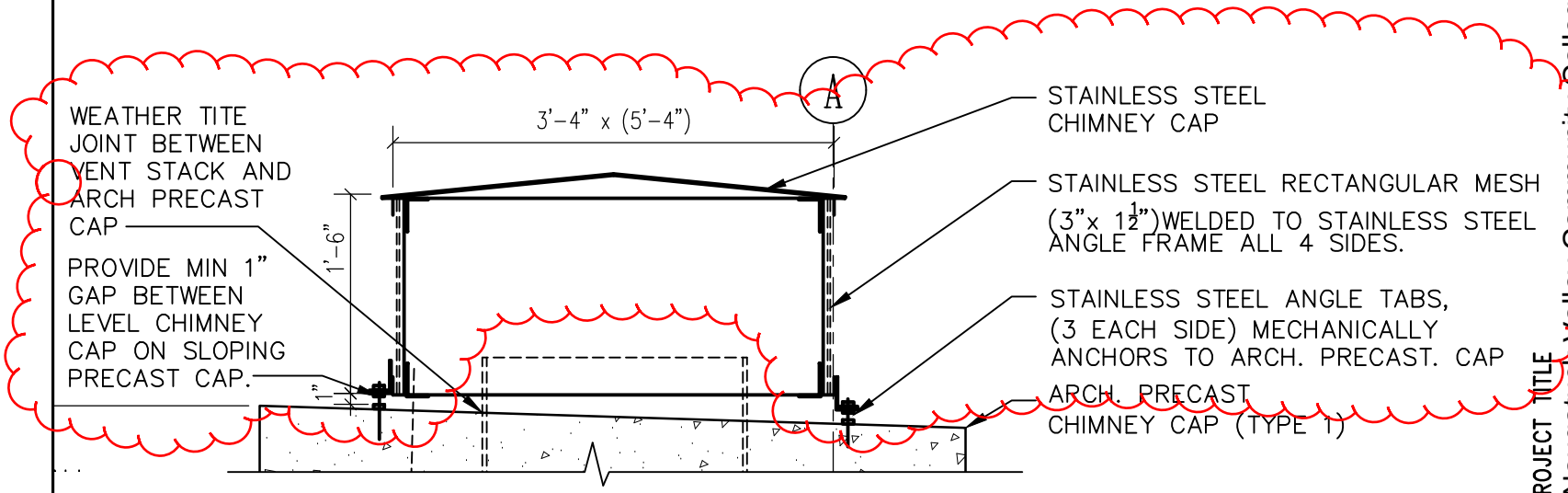
PROJECT NO BI-CTC-442

SKETCH TITLE
WALL SECTION

DATE 11/04/2015

SCALE: AS NOTED

SKETCH NO.
AD4-SK-13/A2.8



17/A2.9 CHIMNEY CAP DETAIL

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

DATE 11/04/2014

SCALE: AS NOTED

SKETCH NO. AD4-SK-17/A2.9

PROJECT TITLE
Naugatuck Valley Community College
Founders Hall Renovations for
Allied Health and Nursing

PROJECT NO BI-CTC-442

SKETCH TITLE
CHIMNEY CAP DETAIL

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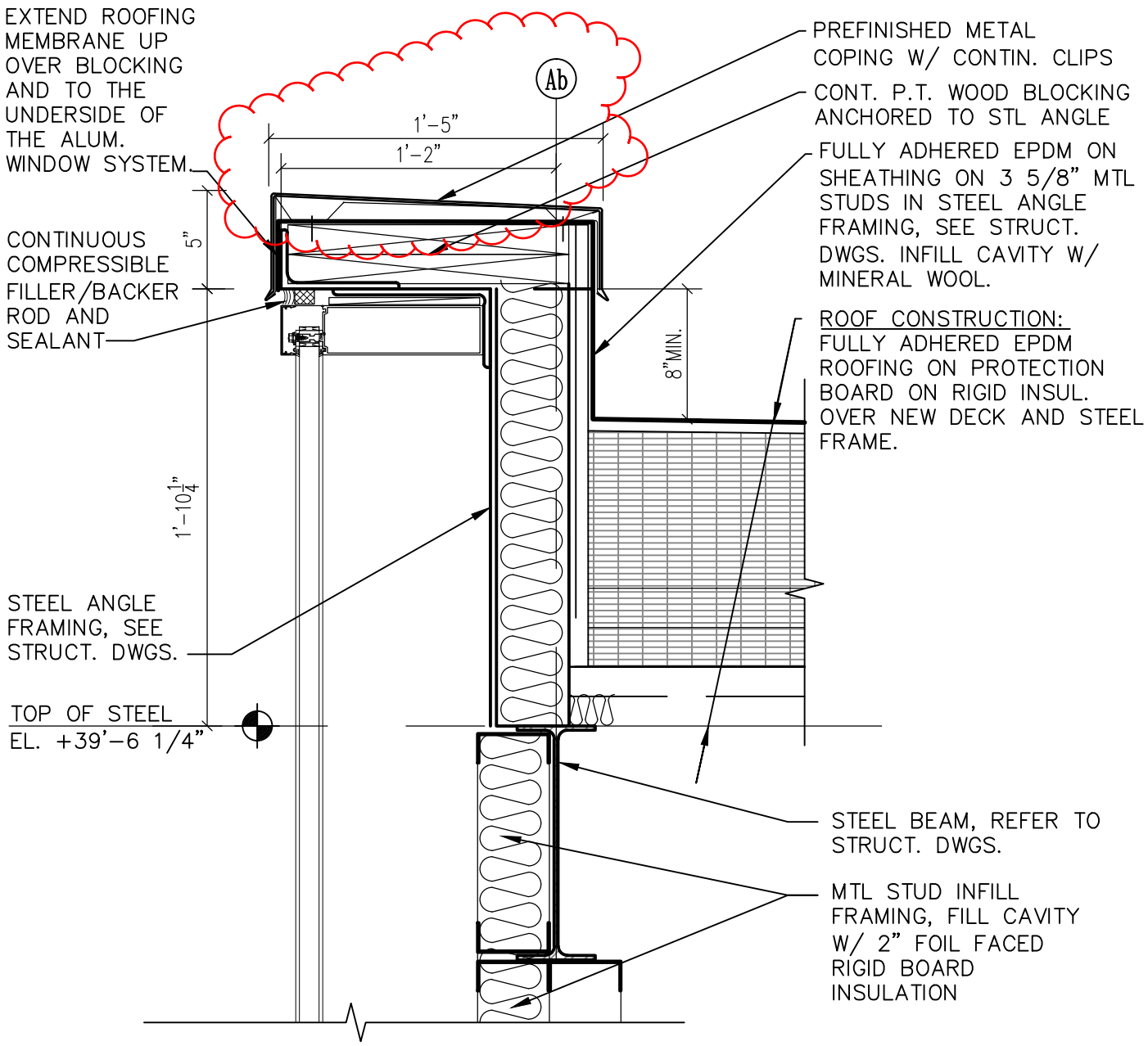

ROOF DETAIL

4 / A3.1

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

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PROJECT TITLE
Naugatuck Valley Community College
Founders Hall Renovations for
Allied Health and Nursing

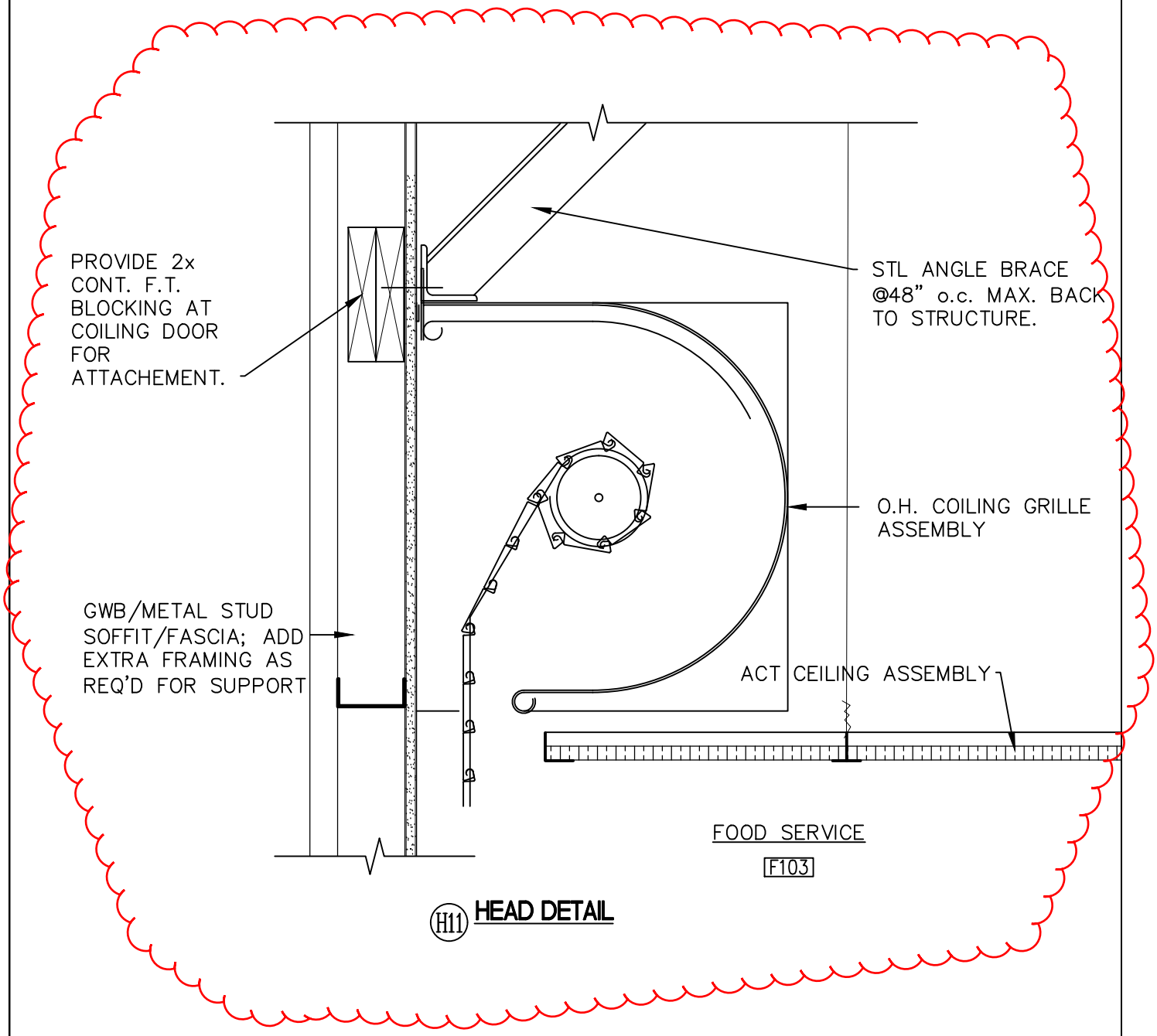
PROJECT NO BI-CTC-442

SKETCH TITLE
ROOF DETAIL

DATE 11/04/2014

SCALE: AS NOTED

SKETCH NO.
AD4-SK-4/A3.1



H11 HEAD DETAIL

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PROJECT TITLE
Naugatuck Valley Community College
Founders Hall Renovations for
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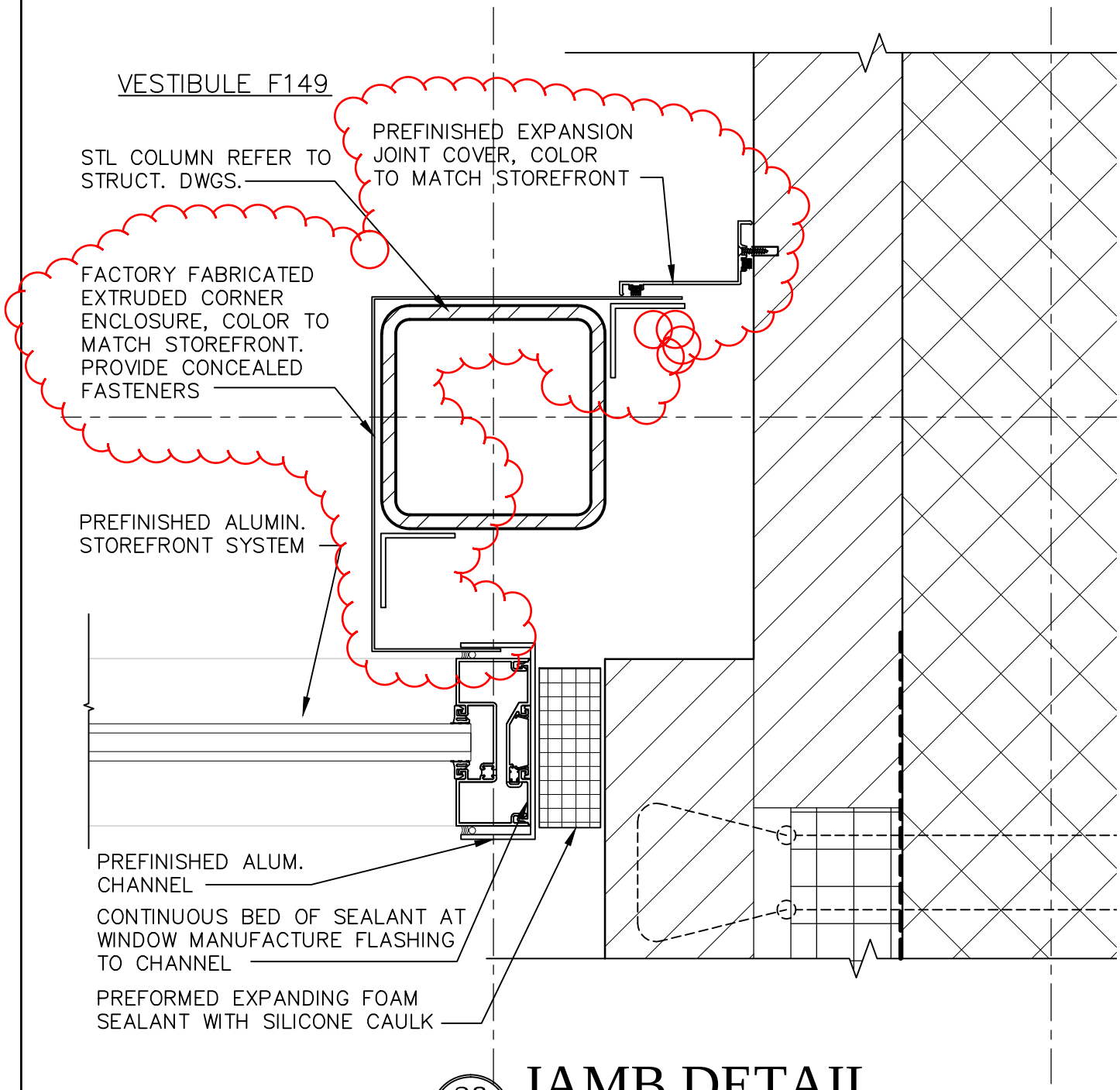
PROJECT NO BI-CTC-442

SKETCH TITLE
HEAD DETAIL AT OVERHEAD
COILING GRILLE (DR 103B)

DATE 11/4/2014

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

SKETCH NO.
AD4-SK-A5.5



28
A5.8

JAMB DETAIL

SCALE: 3"=1'-0"

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PROJECT TITLE
Naugatuck Valley Community College
Founders Hall Renovations for
Allied Health and Nursing

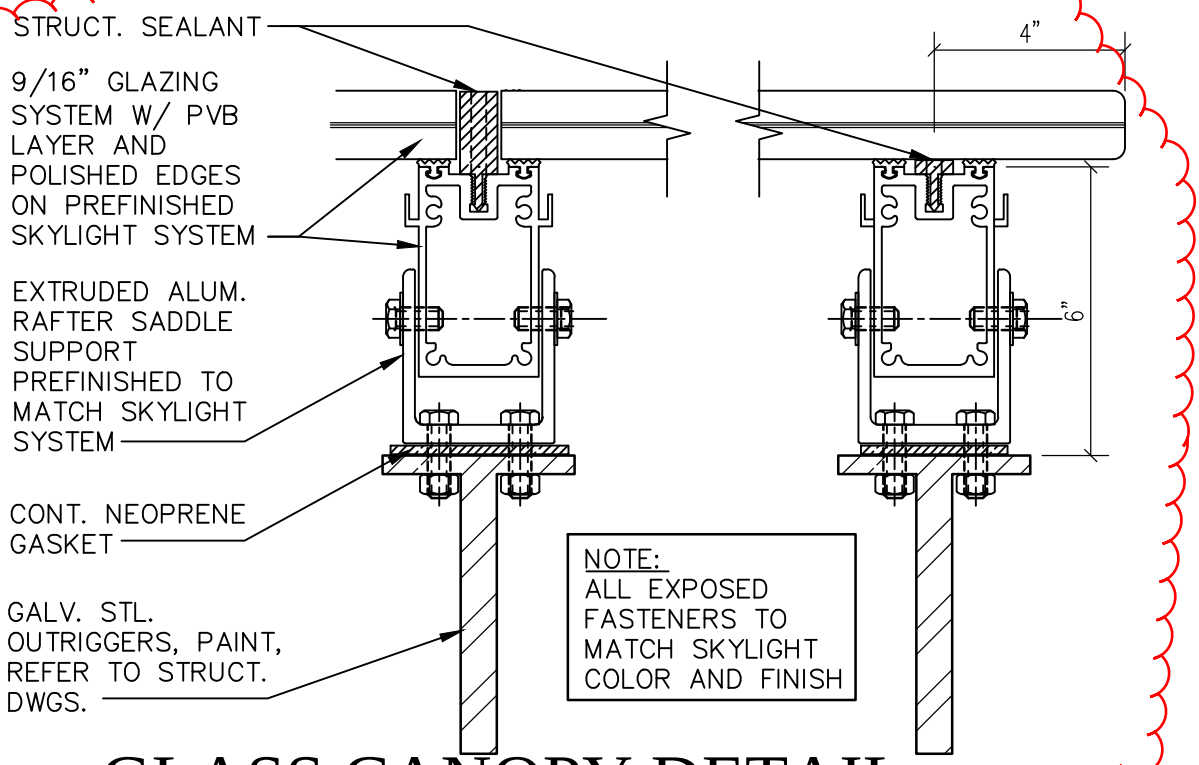
PROJECT NO BI-CTC-442

SKETCH TITLE
JAMB DETAIL @ COLUMN COVER
AT VESTIBULE F149

DATE 11/04/2014

SCALE: AS NOTED

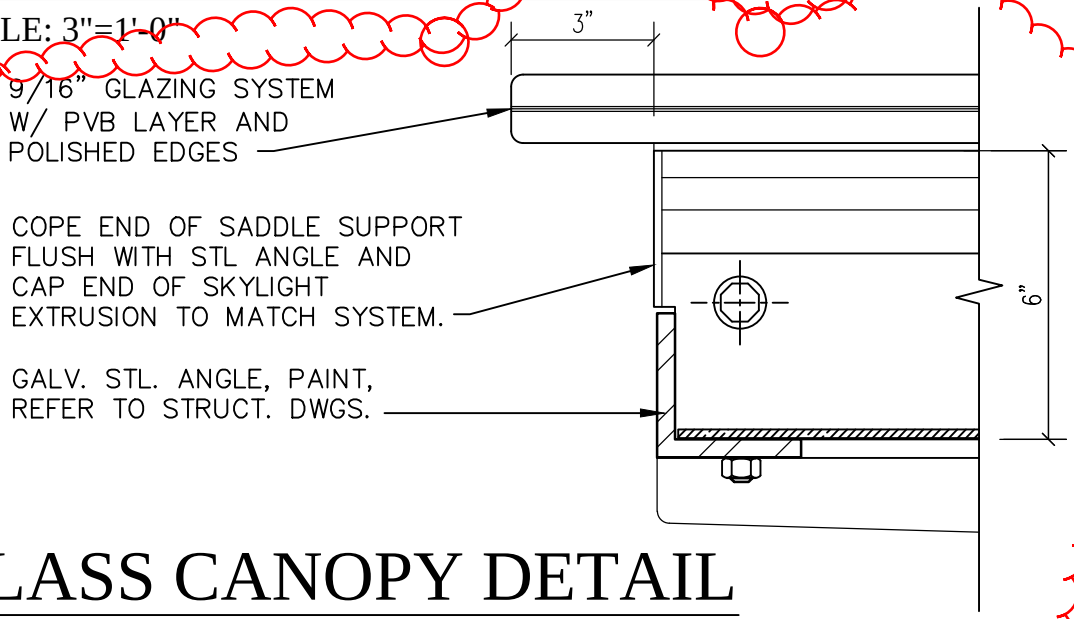
SKETCH NO.
AD4-SK-28/A5.8



29 / A5.8

GLASS CANOPY DETAIL

SCALE: 3"=1'-0"



30 / A5.8

GLASS CANOPY DETAIL

SCALE: 3"=1'-0"

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PROJECT TITLE

Naugatuck Valley Community College
Founders Hall Renovations for
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PROJECT NO BI-CTC-442

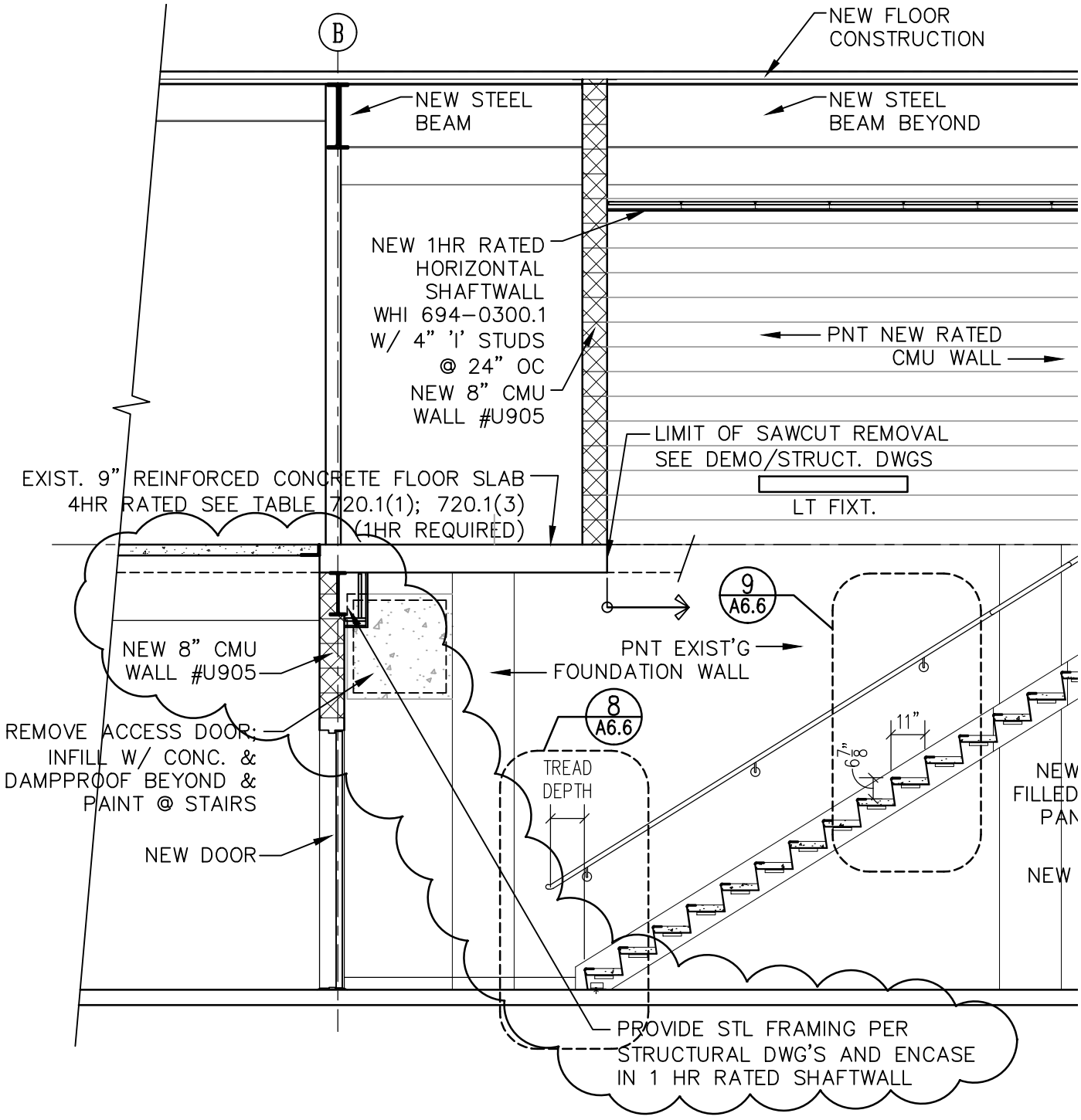
SKETCH TITLE

GLASS CANOPY DETAIL

DATE 11/04/2014

SCALE: AS NOTED

SKETCH NO.
AD4-SK-29-30/A5.8



2 A6.5 BASEMENT STAIR - SECTION

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

PROJECT TITLE

Naugatuck Valley Community College
Founders Hall Renovations for
Allied Health and Nursing

PROJECT NO BI-CTC-442

SKETCH TITLE

ENCLOSURE OF STEEL BEAM

AT BASEMENT STAIR

DATE 11/04/2014

SCALE: AS NOTED

SKETCH NO.

AD4-SK-A6.5

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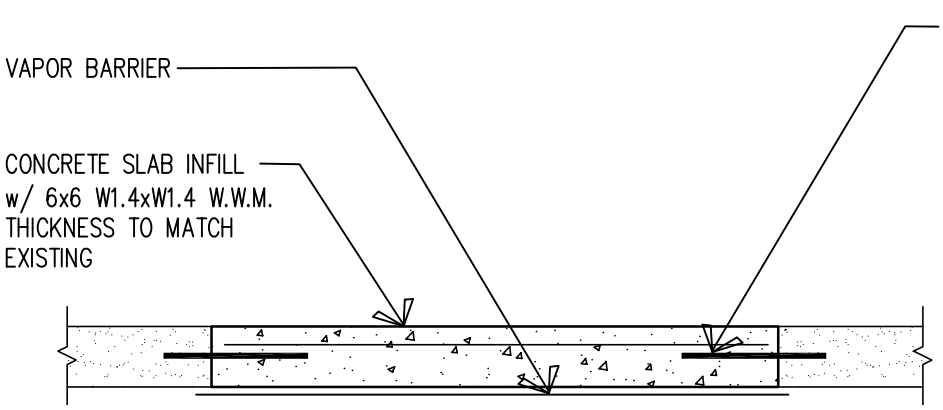

TYPICAL SLAB ON GRADE PATCHING DETAIL

NOT TO SCALE

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PROJECT TITLE
Naugatuck Valley Community College
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Allied Health and Nursing

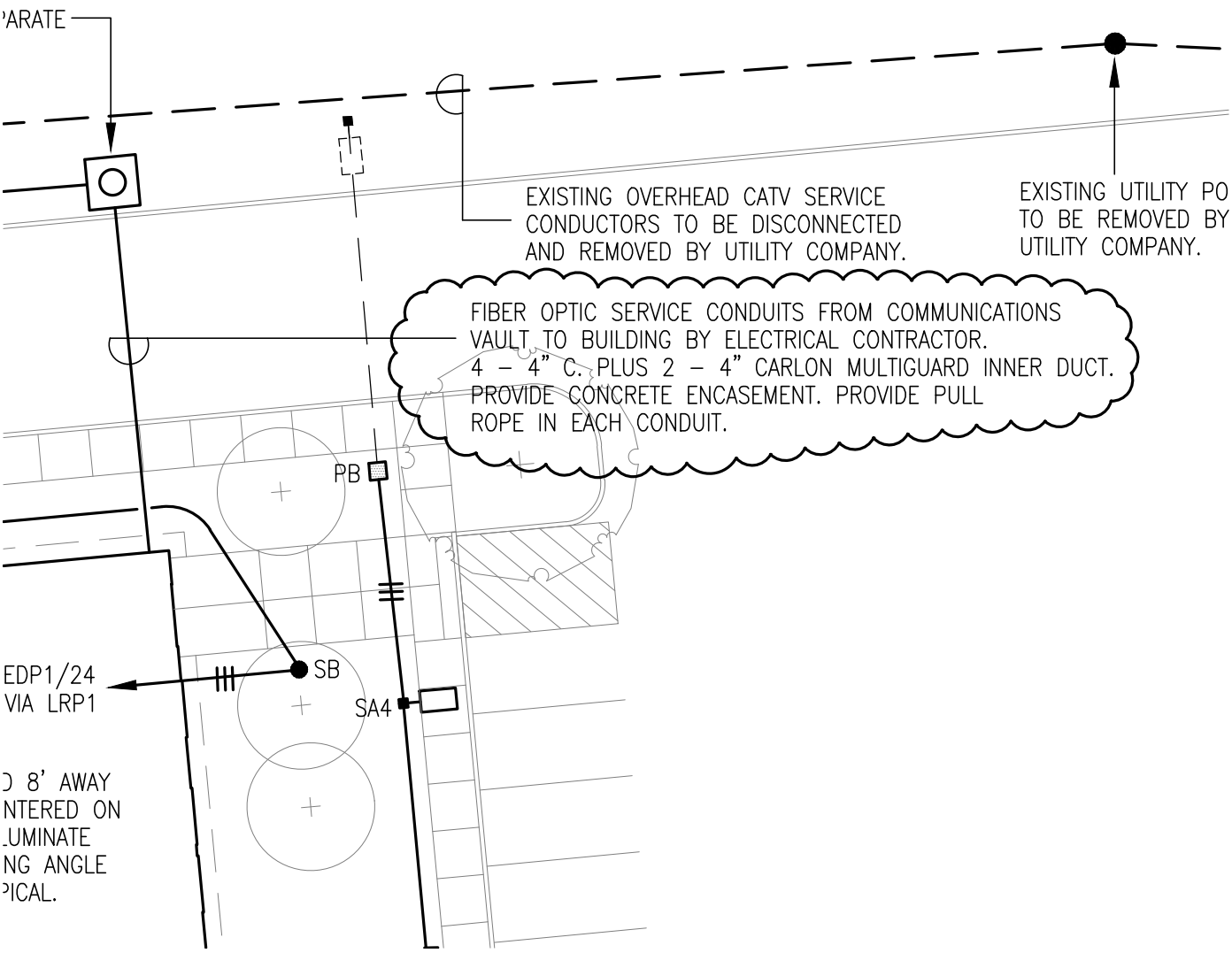
PROJECT NO BI-CTC-442

SKETCH TITLE EXISTING SLAB PATCH DETAIL

DATE 10/29/2014

SCALE: AS NOTED

SKETCH NO. AD4-SK-1



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PROJECT TITLE
Naugatuck Valley Community College
Founders Hall Renovations for
Allied Health and Nursing

PROJECT NO BI-CTC-442

SKETCH TITLE
SITE ELECTRICAL PLAN - REVISIONS
TO FIBER OPTIC SERVICE CONDUITS

DATE 11/3/2014

SCALE: 1" = 20'

SKETCH NO.
AD4-SK-SE.1-1

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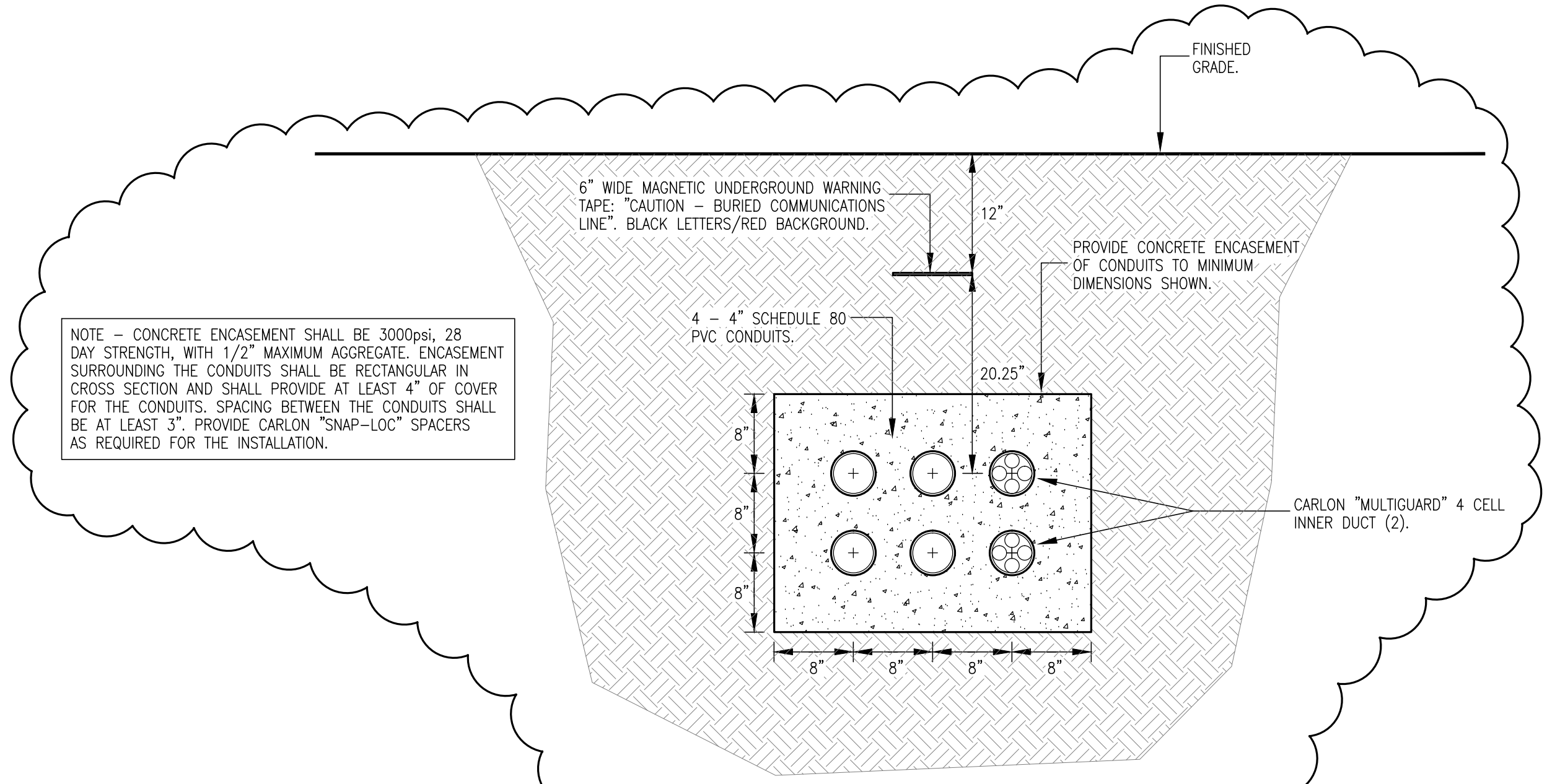
PROJECT TITLE
Naugatuck Valley Community College
Founders Hall Renovations for
Allied Health and Nursing

PROJECT NO
BI-CTC-442

SKETCH TITLE
SITE ELECTRICAL DETAILS

REVISIONS TO FIBER OPTIC SERVICE CONDUITS

NOTE – CONCRETE ENCASEMENT SHALL BE 3000psi, 28 DAY STRENGTH, WITH 1/2" MAXIMUM AGGREGATE. ENCASEMENT SURROUNDING THE CONDUITS SHALL BE RECTANGULAR IN CROSS SECTION AND SHALL PROVIDE AT LEAST 4" OF COVER FOR THE CONDUITS. SPACING BETWEEN THE CONDUITS SHALL BE AT LEAST 3". PROVIDE CARLON "SNAP–LOC" SPACERS AS REQUIRED FOR THE INSTALLATION.



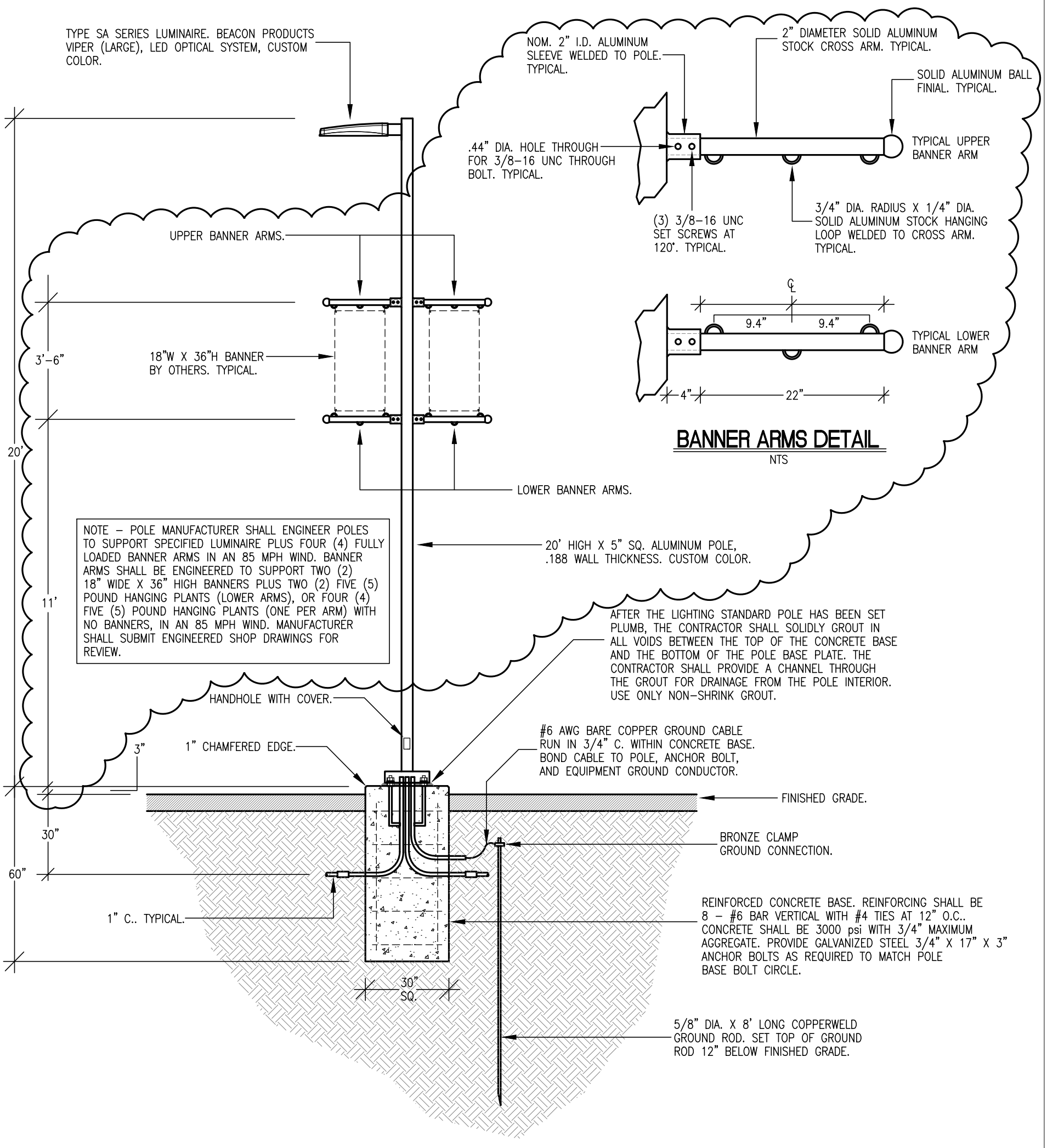
FIBER OPTIC SERVICE CONDUITS DETAIL

NTS

DATE 11/3/2014

SCALE: NONE

SKETCH NO.
AD4-SK-SE.2-1



BANNER ARMS DETAIL

NTS

SITE LIGHTING STANDARD DETAIL - TYPES SA3 AND SA4

NTS

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PROJECT TITLE	Naugatuck Valley Community College Founders Hall Renovations for Allied Health and Nursing
PROJECT NO	BI-CTC-442
SKETCH TITLE	SITE ELECTRICAL DETAILS

REVISIONS TO SITE LIGHTING STANDARD DETAIL - TYPES SA3 & SA4

DATE 11/3/2014

SCALE: NONE

SKETCH NO. AD4-SK-SE.2-2

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	20 GAUGE GALVANIZED STEEL OCTAGONAL HOUSING, INTEGRAL HEAT SINK, ANODIZED UPPER AND LOWER REFLECTORS, SOLITE LENS, WHITE FLANGE, AND LUTRON HiLUME DIMMING LED DRIVER (277V). ZUMTOBEL #BR4DLD-25W-K35-MS55-DH2/BR4DLED-55-CU-W	3500° K, 85 CRI			USAI #1020/LRTD4
SA3	24 3/16"L X 14 1/4"W X 4 1/8"H FULL CUT-OFF LED SITE LIGHTING STANDARD WITH DIE CAST ALUMINUM HOUSING WITH FLOW-THROUGH OPENINGS AND CORROSION RESISTANT FINISH (CUSTOM COLOR), STAINLESS STEEL FASTENERS, ONE PIECE OPTICAL CARTRIDGE SYSTEM WITH LED ENGINE (TYPE 3 DISTRIBUTION), PROTECTIVE THERMAL CIRCUIT, ONBOARD SURGE PROTECTOR, RECTANGULAR ARM MOUNT, AND DIMMING LED DRIVER (120-277V). PROVIDE WITH 20'H X 5" SQ. X .188 GAUGE STRAIGHT ALUMINUM POLE WITH CUSTOM BANNER ARMS, CUSTOM STEEL BASE COVER, AND CUSTOM COLOR. BEACON #VP-L/64NB-135/5K/T3/UNV/RA/CUSTOM COLOR WITH GENERAL STRUCTURES POLE #CPA-1-5018-20-CUSTOM BANNER ARMS-CUSTOM STEEL BASE COVER-CUSTOM COLOR.	LED'S, 12500 LUMENS, 5000° K, 67 CRI MIN.	135	SEE "SITE LIGHTING STANDARD DETAIL - TYPES SA3 AND SA4" ON DRAWING SE.2 FOR POLE, LUMINAIRE, AND BANNER ARMS DETAILS.	GARDCO #ECF-DIM-1-3-135LA-6470-CW SCHREDER #PIANO-Midi-56L-700ma-5102
SA4	24 3/16"L X 14 1/4"W X 4 1/8"H FULL CUT-OFF LED SITE LIGHTING STANDARD WITH DIE CAST ALUMINUM HOUSING WITH FLOW-THROUGH OPENINGS AND CORROSION RESISTANT FINISH (CUSTOM COLOR), STAINLESS STEEL FASTENERS, ONE PIECE OPTICAL CARTRIDGE SYSTEM WITH LED ENGINE (TYPE 4 DISTRIBUTION), PROTECTIVE THERMAL CIRCUIT, ONBOARD SURGE PROTECTOR, RECTANGULAR ARM MOUNT, AND DIMMING LED DRIVER (120-277V). PROVIDE WITH 20'H X 5" SQ. X .188 GAUGE STRAIGHT ALUMINUM POLE WITH CUSTOM BANNER ARMS, CUSTOM STEEL BASE COVER, AND CUSTOM COLOR. BEACON #VP-L/64NB-135/5K/T4/UNV/RA/CUSTOM COLOR WITH GENERAL STRUCTURES POLE #CPA-1-5018-20-CUSTOM BANNER ARMS-CUSTOM STEEL BASE COVER-CUSTOM COLOR.	LED'S, 12500 LUMENS, 5000° K, 67 CRI MIN.	135	SEE "SITE LIGHTING STANDARD DETAIL - TYPES SA3 AND SA4" ON DRAWING SE.2 FOR POLE, LUMINAIRE, AND BANNER ARMS DETAILS.	GARDCO #ECF-DIM-1-4-135LA-6470-CW SCHREDER #PIANO-Midi-56L-700ma-5121
SB	8" DIA. X 42"H FULL CUT-OFF LED SITE LIGHTING BOLLARD WITH ONE-PIECE EXTRUDED ALUMINUM SHAFT, HEAVY CAST ALUMINUM TWIST-LOCK ANCHOR BASE, ONE-PIECE TEMPERED MOLDED GLASS LAMP	LED'S, 5100° K	24	-	GARDCO #BRM832-42-CWL-NW-360 HYDREL #3110-42-LED-WHT53K

PROJECT TITLE
Naugatuck Valley Community College
Founders Hall Renovations for
Allied Health and Nursing

PROJECT NO
BI-CTC-442

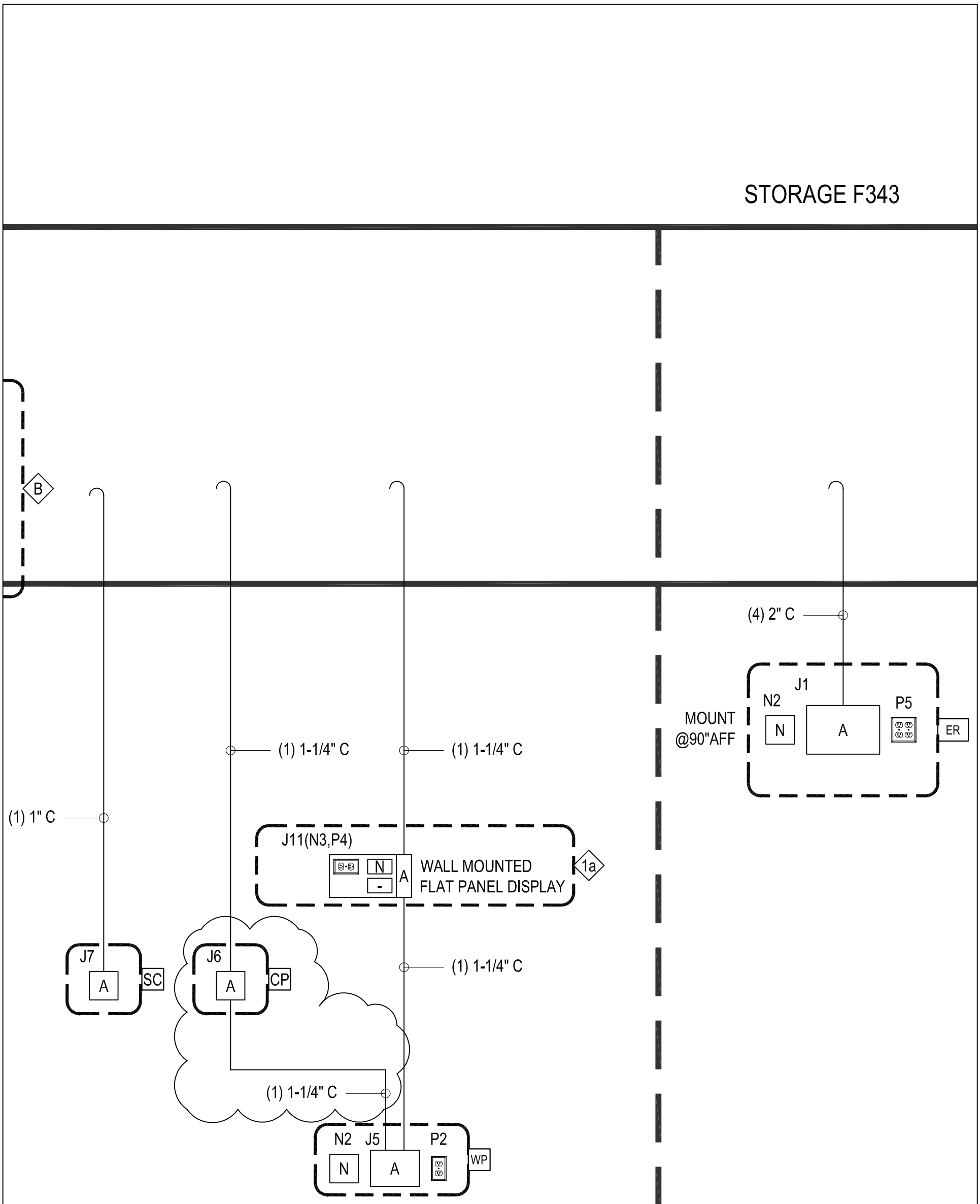
SKETCH TITLE
LIGHT FIXTURE SCHEDULE

REVISIONS TO FIXTURE TYPES SA3 AND SA4

DATE 11/3/2014

SCALE: NONE

SKETCH NO.
AD4-SK-EL2.7-1



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PROJECT TITLE	Naugatuck Valley Community College Founders Hall Renovations for Allied Health and Nursing
PROJECT NO	BI-CTC-442
SKETCH TITLE	AUDIOVISUAL INFRASTRUCTURE
	CONDUIT RISER DIAGRAM 5/TA4.4

DATE 10/31/2014

SCALE: AS NOTED

SKETCH NO.
AD4-SK-TA4.4-2