

## BID FORM

To: The State of Rhode Island Department of Administration  
Division of Purchases, 2<sup>nd</sup> Floor  
One Capitol Hill, Providence, RI 02908-5855

Bidder:

\_\_\_\_\_  
Legal name of entity

\_\_\_\_\_  
Address (street/city/state/zip)

\_\_\_\_\_  
Contact name                      Contact email

\_\_\_\_\_  
Contact telephone                      Contact fax

### 1. **BASE BID PRICE**

The Bidder submits this bid proposal to perform all of the work (including labor and materials) described in the solicitation for this Base Bid Price (*including the costs for all Allowances, Bonds, and Addenda*):

\$ \_\_\_\_\_

(base bid price *in figures* printed electronically, typed, or handwritten legibly in ink)

\_\_\_\_\_  
(base bid price *in words* printed electronically, typed, or handwritten legibly in ink)

- **Allowances**

The Base Bid Price ***includes*** the costs for the following Allowances:

No. 1: Utility Allowance                      \$ 5,000.00

No. 2: Testing Allowance                      \$ 1,000.00

Total Allowances:                              \$6,000.00

- **Bonds**

The Base Bid Price ***includes*** the costs for all Bid and Payment and Performance Bonds required by the solicitation.

- **Addenda**

The Bidder has examined the entire solicitation (including the following Addenda), and the Base Bid Price ***includes*** the costs of any modifications required by the Addenda.

*All Addenda must be acknowledged.*

Addendum No. 1 dated: \_\_\_\_\_

**2. ALTERNATES (Additions/Subtractions to Base Bid Price)**

The Bidder offers to: (i) perform the work described in these Alternates as selected by the State in the order of priority specified below, based on the availability of funds and the best interest of the State; and (ii) increase or reduce the Base Bid Price by the amount set forth below for each Alternate selected.

**No Alternates in this project.**

**3. UNIT PRICES**

The Bidder submits these predetermined Unit Prices as the basis for any change orders approved in advance by the State. These Unit Prices include ***all*** costs, including labor, materials, services, regulatory compliance, overhead, and profit.

**No unit prices in this project.**

**4. CONTRACT TIME**

The Bidder offers to perform the work in accordance with the timeline specified below:

- Start of Construction..... 7 Calendar Days After Issuance of PO
- Substantial Completion..... March 30, 2018
- Final Completion .....April 27, 2018

**5. LIQUIDATED DAMAGES**

The successful bidder awarded a contract pursuant to this solicitation shall be liable for and pay the State, as liquidated damages and not as a penalty, the following amount

for each calendar day of delay beyond the date for substantial completion, as determined in the sole discretion of the State: \$500.00 per day

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**This bid proposal is irrevocable for 60 days from the bid proposal submission deadline.**

**If the Bidder is determined to be the successful bidder pursuant to this solicitation, the Bidder will promptly: (i) comply with each of the requirements of the Tentative Letter of Award; and (ii) commence and diligently pursue the work upon issuance and receipt of the purchase order from the State and authorization from the user agency.**

**The person signing below certifies that he or she has been duly authorized to execute and submit this bid proposal on behalf of the Bidder.**

**BIDDER**

**Date:** \_\_\_\_\_

\_\_\_\_\_  
Name of Bidder

\_\_\_\_\_  
Signature in ink

\_\_\_\_\_  
Printed name and title of person signing on behalf of Bidder  
#

\_\_\_\_\_  
Bidder's Contractor Registration Number

June 9, 2017

## NOTICE OF ADDENDUM NO. 1

State of Rhode Island  
Solicitation Number 7553498  
CBLS Cooling Tower Improvements  
University of Rhode Island  
Kingston, Rhode Island

**DATE OF ADDENDUM:**                    **June 9, 2017**

**The contract documents are hereby modified to include the following documents as if fully attached thereto.**

### **Contract Plans and Specifications**

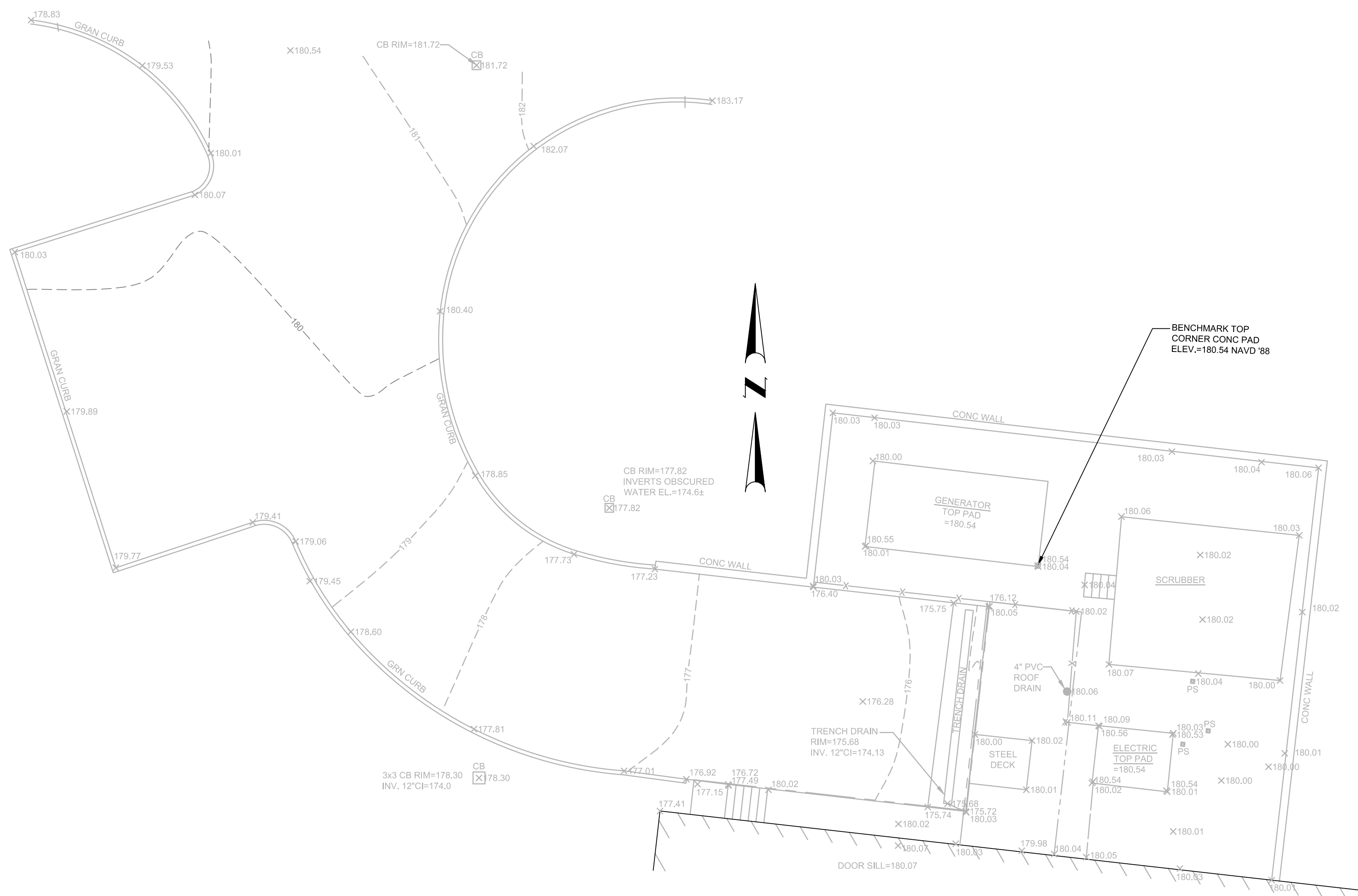
1. Delete Drawing No. 3, Sheet 3 of 3 and replace with attached Drawing No. 3 (Addendum No. 1).
2. Insert Appendix A - This section covers the installation of a new Fall Protection system at the Level Four Green Roof. The scope of work includes removal of existing roofing, creating openings through existing roof deck at roof anchor locations, installation of new Fall Protection System, enclosing roof deck and reinstalling new roofing at roof openings.

Attachments (9 Sheets)

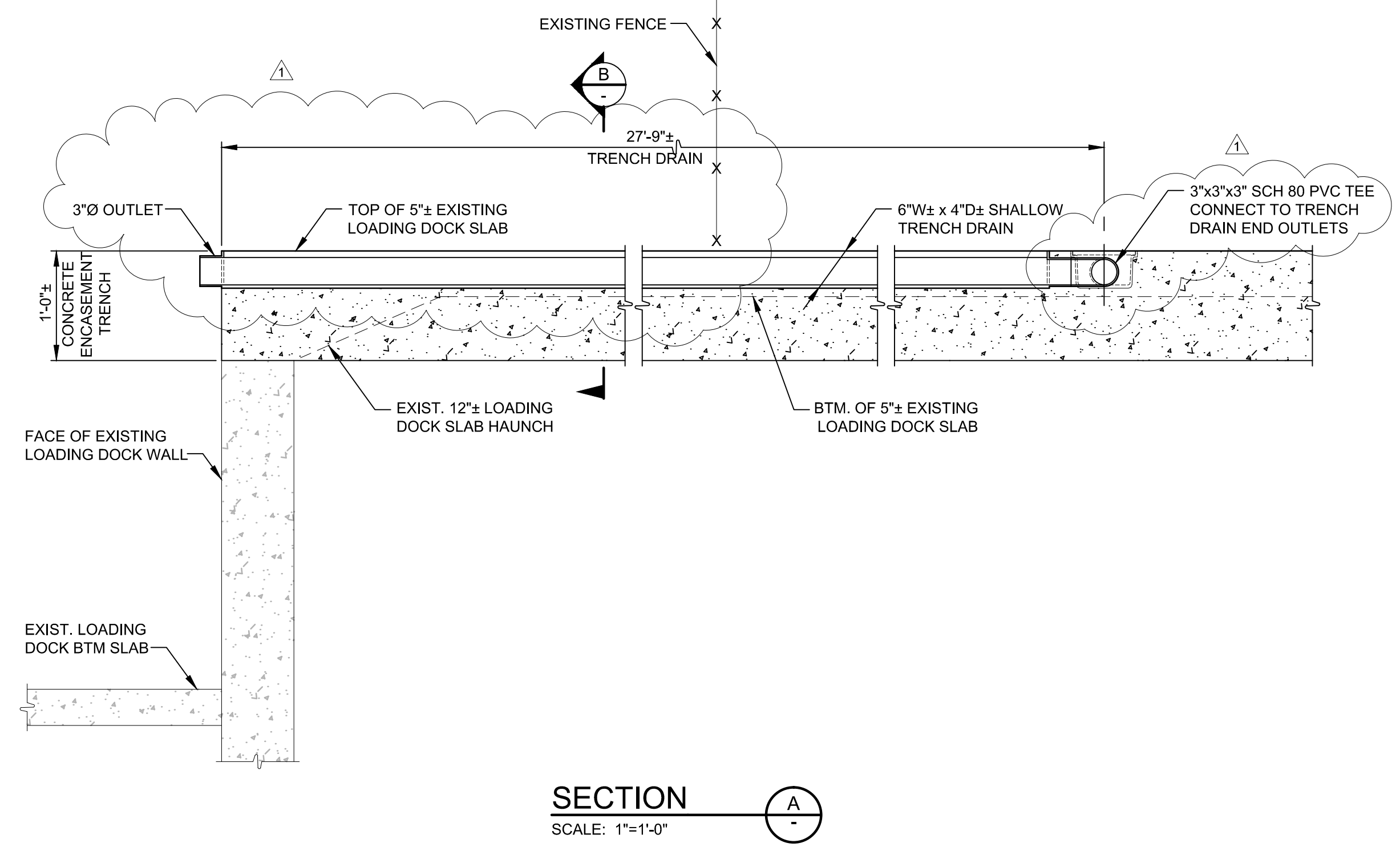
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**END OF ADDENDUM NUMBER 1**

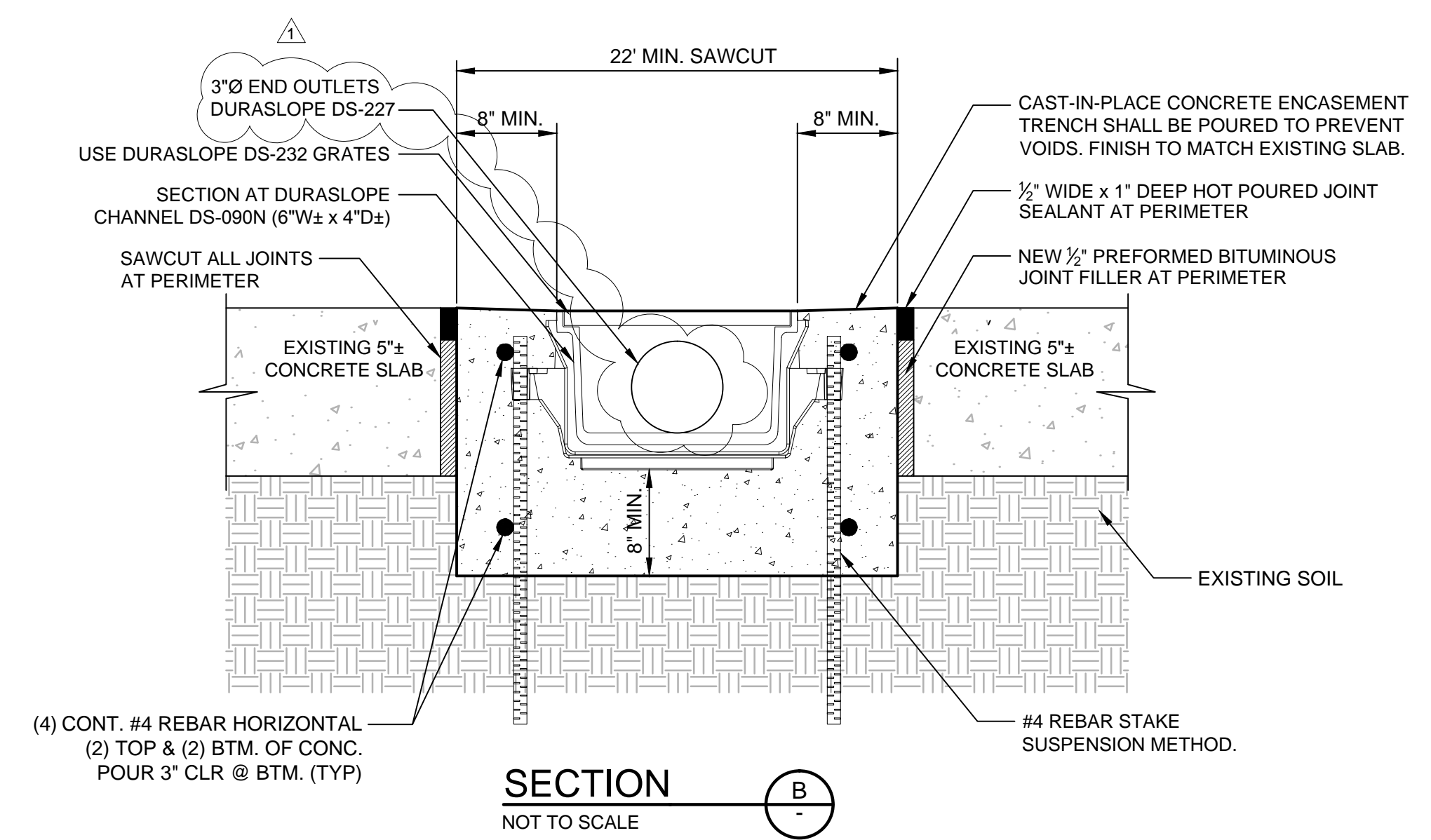
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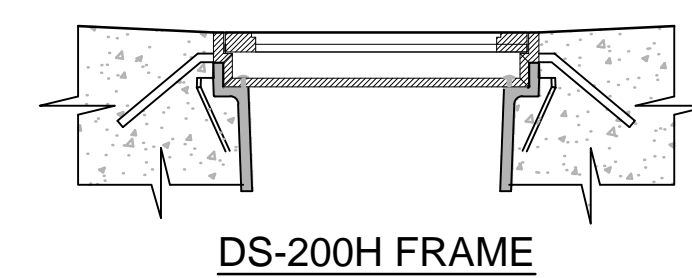
**EXISTING CONDITIONS & GRADING PLAN**  
SCALE: 1" = 10'



**SECTION A**  
SCALE: 1"=1'-0"

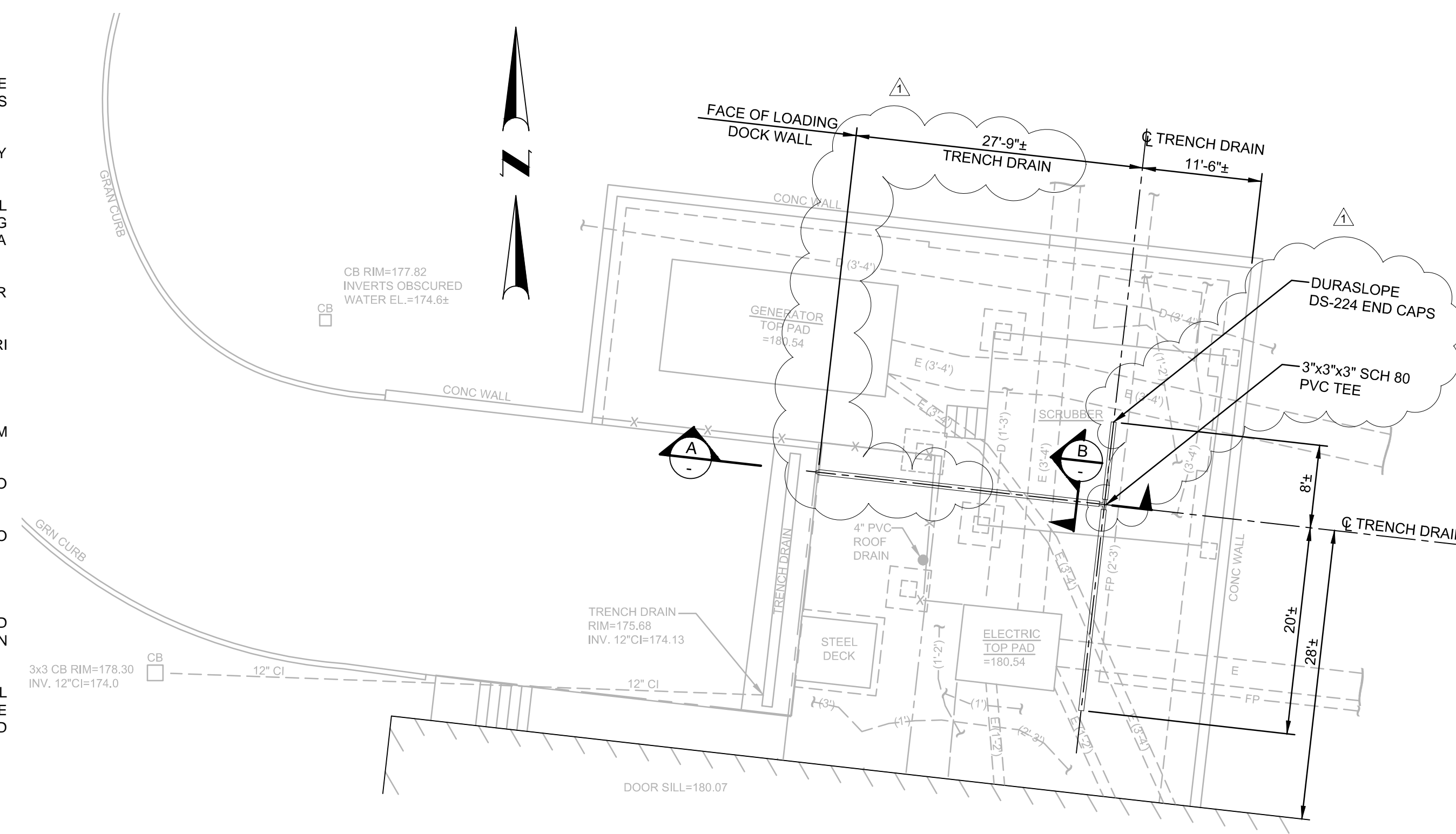


**SECTION B**  
NOT TO SCALE



- NOTES:**
- CHANNELS TO BE INSTALLED WITH BLANK GRATE. GRATE TO BE PROTECTED FROM CONCRETE POUR (COVER HOLES WITH TAPE).
  - INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
  - DO NOT SCALE DRAWING.
  - THIS DRAWING IS INTENDED FOR PLANNING PURPOSES ONLY.
  - ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

**TRENCH DRAIN DETAILS**  
NOT TO SCALE



**SITE PLAN**  
SCALE: 1" = 10'

- NOTES:**
- ALL WORK SHALL CONFORM TO LATEST EDITION OF THE RHODE ISLAND STATE BUILDING CODE REQUIREMENTS AND ITS APPLICABLE REFERENCED STANDARDS.
  - THE TRENCH DRAIN SHALL BE HDPE AS MANUFACTURED BY NDS, INC. OR APPROVED EQUAL. www.ndspro.com 1-800-726-1994
  - THE TRENCH DRAIN SYSTEM SHALL CONSIST OF NEUTRAL SLOPE SECTIONS OF TRENCH DRAIN. THE SYSTEM INCLUDING THE CHANNEL, THE FRAME AND THE GRATE SHALL HAVE A CLASS D RATING.
  - ALL PIPE PENETRATIONS SHALL BE CORED AND SEALED WATER TIGHT WITH HYDRAULIC CEMENT.
  - ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH URI HOT WORK POLICY.
  - CONTRACTOR SHALL SAW CUT THE EXISTING SLAB.
  - CONCRETE SHALL BE CLASS HP WHICH HAS A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.
  - HOT POURED JOINT SEALANT SHALL CONFORM TO AASHTO M173 (ASTM D1190).
  - PREFORMED BITUMINOUS JOINT FILLER SHALL CONFORM TO AASHTO M33 (ASTM D994).
  - REINFORCING SHALL BE GRADE 60 GALVANIZED REBAR.
  - ALL ITEMS INCLUDING PIPING, JOINT COMPONENTS AND COUPLINGS SHALL BE CAPABLE OF BEING ENCASED IN CONCRETE WITHOUT DETERIORATION.
  - PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL DRILL OR CORE THE SLAB IN SEVERAL LOCATIONS TO CONFIRM THE THICKNESS AND DEPTH. SAW CUT DEPTH SHALL BE ADJUSTED TO PREVENT IMPACT TO UNDERLYING UTILITIES.

**PROJECT**

**CBL'S HVAC DRAINAGE REPAIR**

**KINGSTON, RHODE ISLAND**

**TODD A. RAVELLE**  
No. 5928  
REGISTERED PROFESSIONAL ENGINEER

**CLIENT**

**UNIVERSITY OF RHODE ISLAND**

**Gordon R. Archibald, Inc.**  
Civil and Environmental Engineers  
Pawtucket, Rhode Island

**DRAWING TITLE**

**SITE PLAN AND DETAILS**

NO.	DATE	REVISIONS	BY
1	06/04/17	ADDENDUM NO. 1	

**PROJECT NO.:** 1700

**DATE:** MARCH 2017

**SCALE:** AS NOTED

**DRAWN BY:** TAP

**CHECKED BY:** TAR

**DRAWING NUMBER**

**3**

**SHEET 3 OF 3**

C:\FILES\CAD\700\Project\Drawings\1700\_000\_SITE PLAN.dwg, 07/20/17 2:26:36 PM, USERS

*June 9, 2017*

# APPENDIX A

**SECTION 00 9111**

**SUMMARY**

This Addendum covers the installation of a new Fall Protection system at the Level Four Green Roof. The scope of work includes removal of existing roofing, creating openings through existing roof deck at roof anchor locations, installation of new Fall Protection System, enclosing roof deck and reinstalling new roofing at roof openings.

**PARTICULARS**

- 1.01 DATE: **June 9, 2017**
- 1.02 PROJECT: **CBLS Cooling Tower Improvements**
- 1.03 PROJECT NUMBER: **KC.G.CBLS.2016.002**
- 1.04 OWNER: **University of Rhode Island**
- 1.05 ARCHITECT: **Brewster Thornton Group Architects, LLP**
- 1.06 BID NUMBER: **7553498**

**TO: PROSPECTIVE BIDDERS**

- 2.01 This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated May 31, 2017, with amendments and additions noted below.
- 2.02 Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder.
- 2.03 This Addendum consists of 1 page and the following document(s):
  - A. Section 11010: Fall Protection System dated 5/31/2017
  - B. Drawings: SKA-1 Roof Plan, SKA-2 Roof Section, SKA-3 Existing Photos dated 6/2/2017

**CHANGES TO ADDENDA**

- 3.01 N/A

**CHANGES TO PROJECT MANUAL**

- 4.01 REPLACE the following Sections:
  - A. N/A
- 4.02 ADD the following Sections:
  - A. Section 11010: Fall Protection System
- 4.03 REVISE the following Sections:
  - A. N/A

**CHANGES TO DRAWINGS**

- 5.01 REPLACE the following Drawings:
  - A. N/A
- 5.02 ADD the following Drawings:
  - A. SKA-1 Roof Plan dated 6/2/17
  - B. SKA-2 Roof Section dated 6/2/17
  - C. SKA-3 Existing Photos dated 6/2/17
- 5.03 REVISE the following Drawings:
  - A. N/A

**QUESTIONS & ANSWERS**

- 6.01 **Questions & Answers**
  - A. N/A

**ADDITIONAL INFORMATION**

- 7.01 The following additional information should be noted:
  - A. N/A

END OF SECTION

**SECTION 11010  
FALL PROTECTION SYSTEM**

**PART 1 - GENERAL**

**1.01 GENERAL REQUIREMENTS**

- A. Comply with the conditions of the Contract and Division 1 - General Requirements

**1.02 SECTION INCLUDES**

- A. Work of this section includes the design, supply and installation of fall protection maintenance equipment

**1.04 REFERENCES**

- A. AISC S342L-1993, with Supplement No.1 "Load and Resistance Factor Design Specification for Structural Steel Buildings".
- B. AISI SG-971-1996, with 2000 Supplement "Specification for Design of Cold-Formed Steel Structural Members".
- C. Aluminum Association AA ADM-1-Aluminum Design Manual, 2000" and AWS D1.2-1997 Structural Welding Code - Aluminum.
- D. AWS D1.1-2000 Structural Welding Code - Steel.

**1.05 DESIGN REQUIREMENTS**

- A. Design restraint system to suit building and in accordance with plans, specifications, standards, and regulations/codes contained in sections 1.04 and 1.08.
- B. Locate anchorages to suit equipment that will be used on the building with respect to items such as reach, spacing, roof edge condition, and similar items.
- C. Design all anchor components to provide adequate attachment to the building and suited to maintenance practices. Ensure compatibility with industry standard equipment.
- D. Ensure all anchor components conform to proper engineering principles and have been designed by a Professional Engineer qualified in the design of restraint maintenance equipment, its application and safety requirements.
- E. Design system fall arrest safety anchors and equipment supports to comply with the following structural requirements:
  - 1. Fall Arrest Safety Anchors: designed to a maximum fall arresting force of typically 1800 lbs. (8.0 kN) when wearing a body harness with a safety factor of 2 without any permanent deformation and to 5000 lbs. (22.24 kN) against fracture or detachment.

**1.06 SHOP DRAWINGS AND ENGINEERING CERTIFICATION**

- A. Submit shop drawings showing complete layout and configuration of complete restraint maintenance system, including all components and accessories. Clearly indicate design and fabrication details, hardware, and installation details.
- B. Shop drawings to include installation and rigging instructions and all necessary Restrictive and Non-Restrictive Working Usage Notes and General Safety Notes.
- C. Shop drawings to be reviewed by a professional engineer, and upon request, complete with calculations and/or test reports.

**1.07 QUALIFICATIONS**

- A. Manufacturer: Work of this Section to be executed by manufacturer specializing in the design, fabrication and installation of restraint maintenance systems having a minimum of 5 years documented experience.
- B. Loading and safety assurance: Work of this Section to meet the requirements of governing codes and jurisdiction and to comply with properly engineered loading and safety criteria for the intended use.
- C. Insurance: Manufacturer to carry specific liability insurance (products and completed operations) in the amount of \$5,000,000.00 to protect against product/system failure.
- D. Welding to be executed by certified welders in accordance with AWS requirements.



**1.08 REGULATORY REQUIREMENTS**

- A. Comply with the following OSHA regulations:
  - 1. 1910, Subpart D (Walking and Working Surfaces).
  - 2. Appendix C to 1910 Subpart F (Personal Fall Arrest Systems).

**1.09 MAINTENANCE DATA**

- A. Submit 1 copy of system Equipment Manual & Inspection Log Book, with "Initial Inspection - Certification for Use" and "Inspection Sign-Off" forms completed.
- B. Submit 2 copies of a reduced plastic laminated as-built shop drawing showing equipment locations and details. This drawing is to be posted near exits onto the roof.

**PART 2 - PRODUCTS**

**2.01 MANUFACTURER**

- A. This specification is based on systems currently being manufactured by PRO-BEL ENTERPRISES LTD. Toll free: 1-800-461-0575. Telephone: 905-427-0616, Fax: 905-427-2545, info@pro-bel.ca.
- B. Other manufactured products meeting this specification may be substituted provided that manufacturers show proof of product insurance. Equipment details to be approved by the architect and/or consultant. Companies, such as miscellaneous metal fabricators, who are not normally engaged in the design and manufacture of window cleaning/suspended maintenance equipment are not permitted to bid.

**2.02 EQUIPMENT**

- A. [ PBE-73R-00A4 ]
- B. [ FA-HLL-DL#-PB ]
- C. [ ]

**2.09 HORIZONTAL CABLE LIFELINE SYSTEM SUPPORTS**

- A. Hollow steel (HSS) pier supports: galvanized mild steel as above with yield strength of 50 Ksi (300 MPa). Wall thickness to suit application.
- B. Base plate and all other sections: galvanized mild steel as above with yield strength of 44 Ksi (300 MPa). Thickness and securement to suit application.
- C. Securement bolts: mild steel, Type 300W with yield strength of 44 Ksi (300 MPa), hot-dip galvanized to ASTM A123/A123M-2002.
- D. Safety U-bars: Type 304 stainless steel with yield strength of 35 Ksi (240 MPa). U-bar to be not less than 3/4" (19 mm) diameter material with 1-1/2" (38 mm) eye opening.
- E. Seamless spun aluminum flashing (for steel pier supports): Type 6061-T6 alloy to ASTM B221-2000 with deck flange flashed in to NRCA recommendations. Seal top of aluminum flashing with conformable mastic tape and torch applied heat-shrink rubber collar flashing.
- F. Miscellaneous bolts, nuts and washers: mild steel, Type 300W with yield strength of 44 Ksi (300 MPa), hot-dip galvanized to ASTM A123/A123M-2002 or Type 304 stainless steel with yield strength of 35 Ksi (240 MPa).

**Double Lanyard (DL) Horizontal Lifeline System**

- G. Cable: 5/16" (8 mm) dia. Stainless steel with minimum breaking strength of 19,125 lbs. (85 kN), complete with, the use of d-clips.
- F. Data plate: cable system entry points to be equipped with prominently displayed non-corrosive data plate clearly stating Maximum Service Capacity and Number of Users.
- G. Tensioner: steel turnbuckle, same material as cable with shock absorber at other end, as required.
- H. Harness: manufacturer's standard full body harness with double lanyard and shock absorbers.

**PART 3- EXECUTION**

**3.01 EXAMINATION**

- A. Examine surfaces and areas upon which the work of this section depends. Report to the Contractor in writing, defects of work prepared by other trades and other unsatisfactory site conditions, which would cause defective installation of products, or cause latent defects in workmanship and function.
- B. Verify site dimensions.
- C. Commencement of work will imply acceptance of prepared work.

**3.02 INSTALLATION**

- A. Install equipment in accordance with approved shop drawings and manufacturer's recommendations.
- B. Co-ordinate installation with work of related trades.
- C. Install all work true, level, tightly fitted and flush with adjacent surfaces as required.
- D. Deform threads of tail end of anchor studs after nuts have been tightened to prevent accidental removal or vandalism.
- E. Manufacturer to assist and/or supervise installation maintenance equipment installed by others.
- F. Structural steel to receive safety anchors to have adequate bearing surface as indicated on shop drawings and/or to ensure 100% weld.

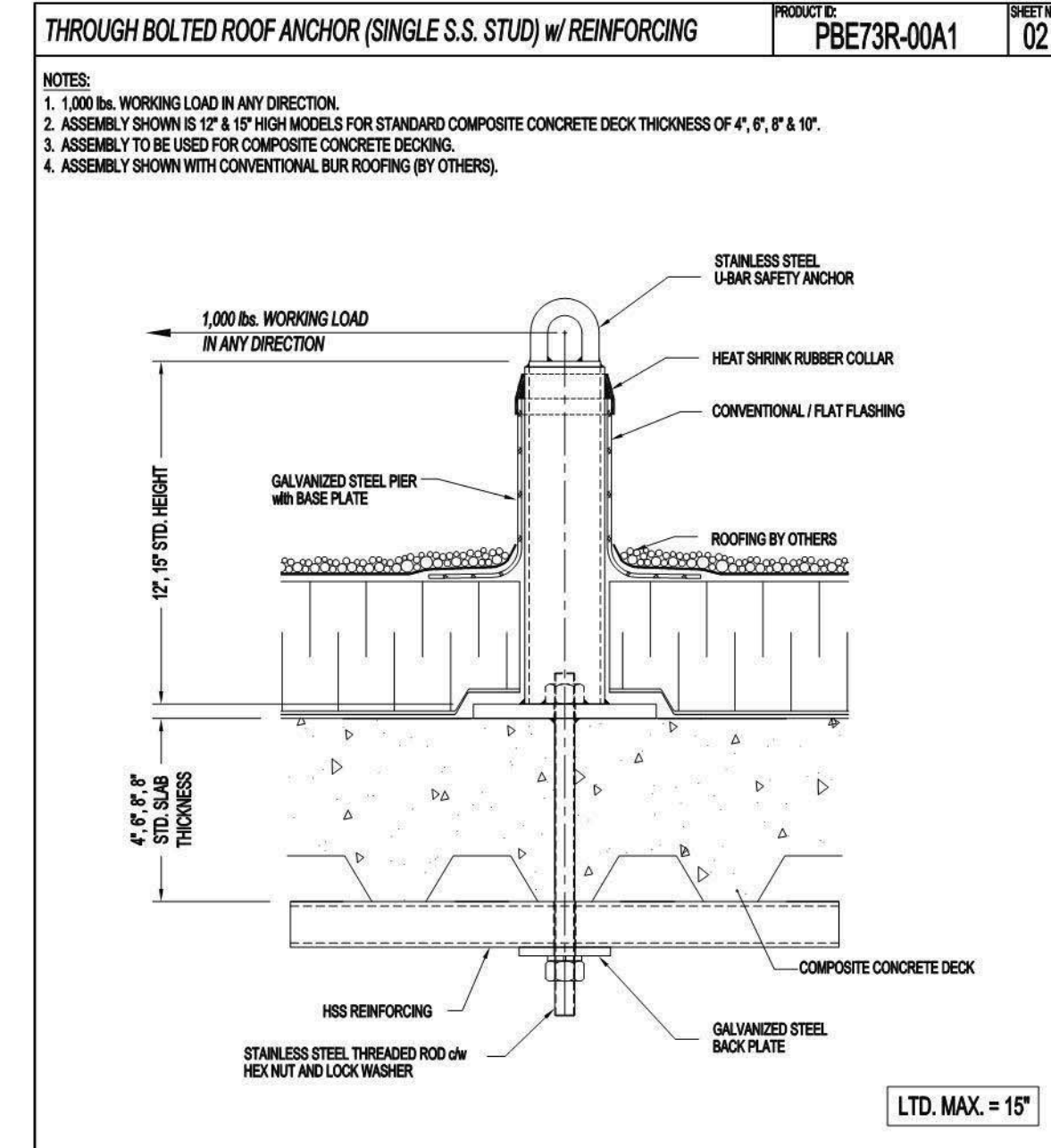
**3.03 FINAL ADJUSTING AND INSPECTION**

- A. Adjust and leave equipment in proper working order.
- B. Complete "Initial Inspection – Certification for Use" form included in Equipment Manual & Inspection Log Book.

**3.04 TESTING**

- A. All anchors relying upon chemical adhesive fasteners to be 100% tested on site using load cell test apparatus in accordance with manufacturer's recommendations.

END OF SECTION

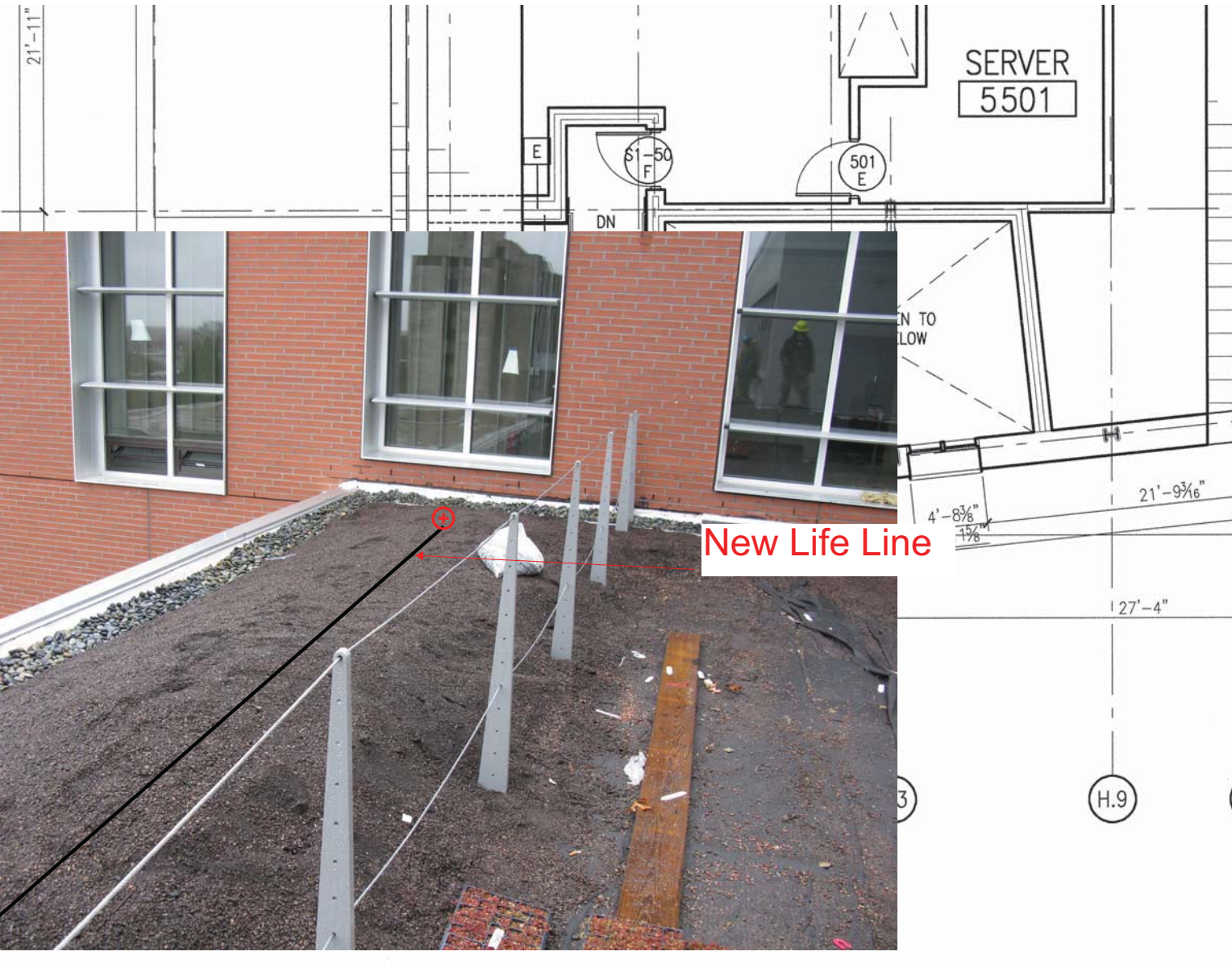
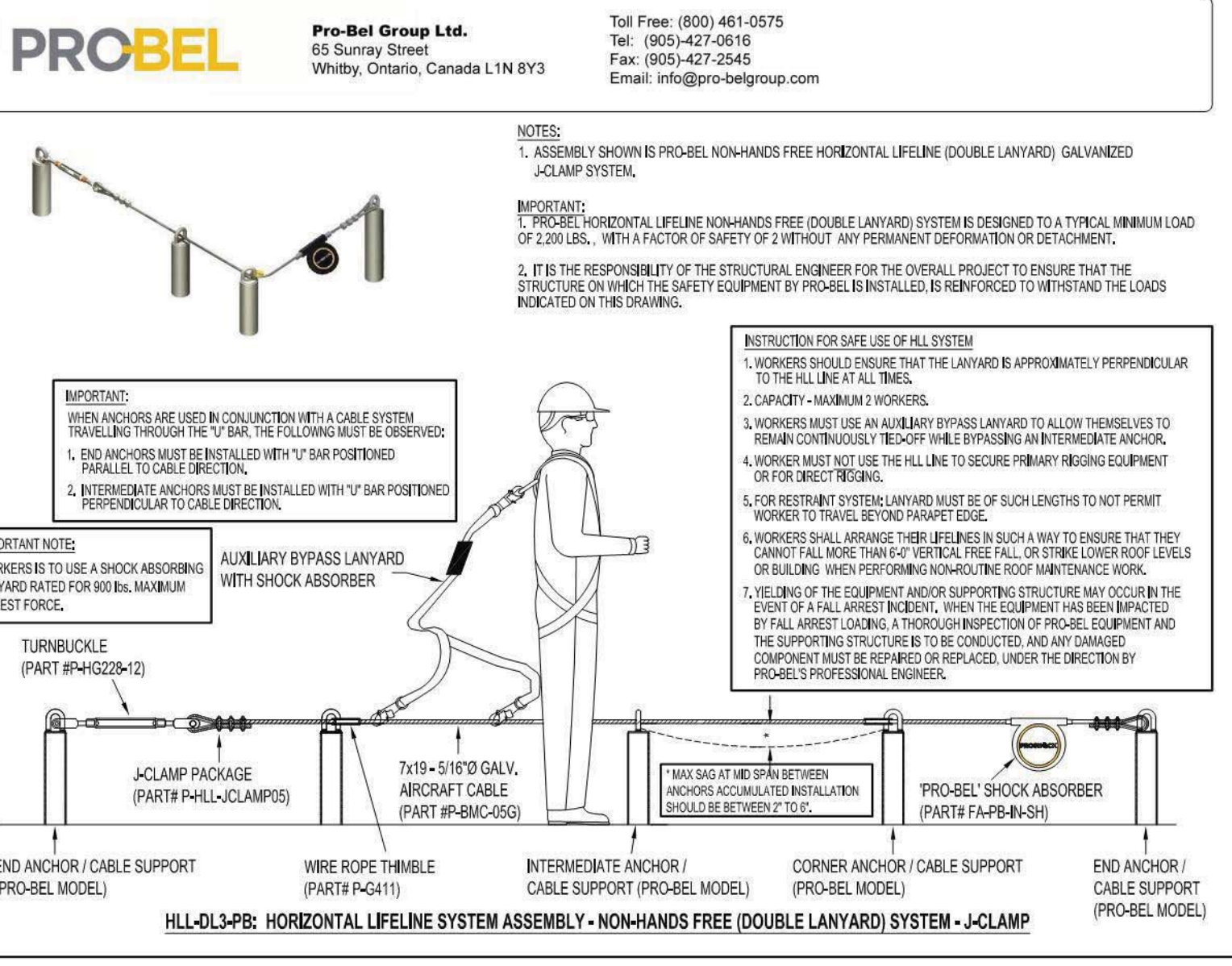


**NOTES:**  
 1. 1,000 lb. WORKING LOAD IN ANY DIRECTION.  
 2. ASSEMBLY SHOWN IS 1/2" x 1/2" HIGH MODELS FOR STANDARD COMPOSITE CONCRETE DECK THICKNESS OF 4", 6", 8" & 10".  
 3. ASSEMBLY TO BE USED FOR COMPOSITE CONCRETE DECKING.  
 4. ASSEMBLY SHOWN WITH CONVENTIONAL ROOFING (BY OTHERS).

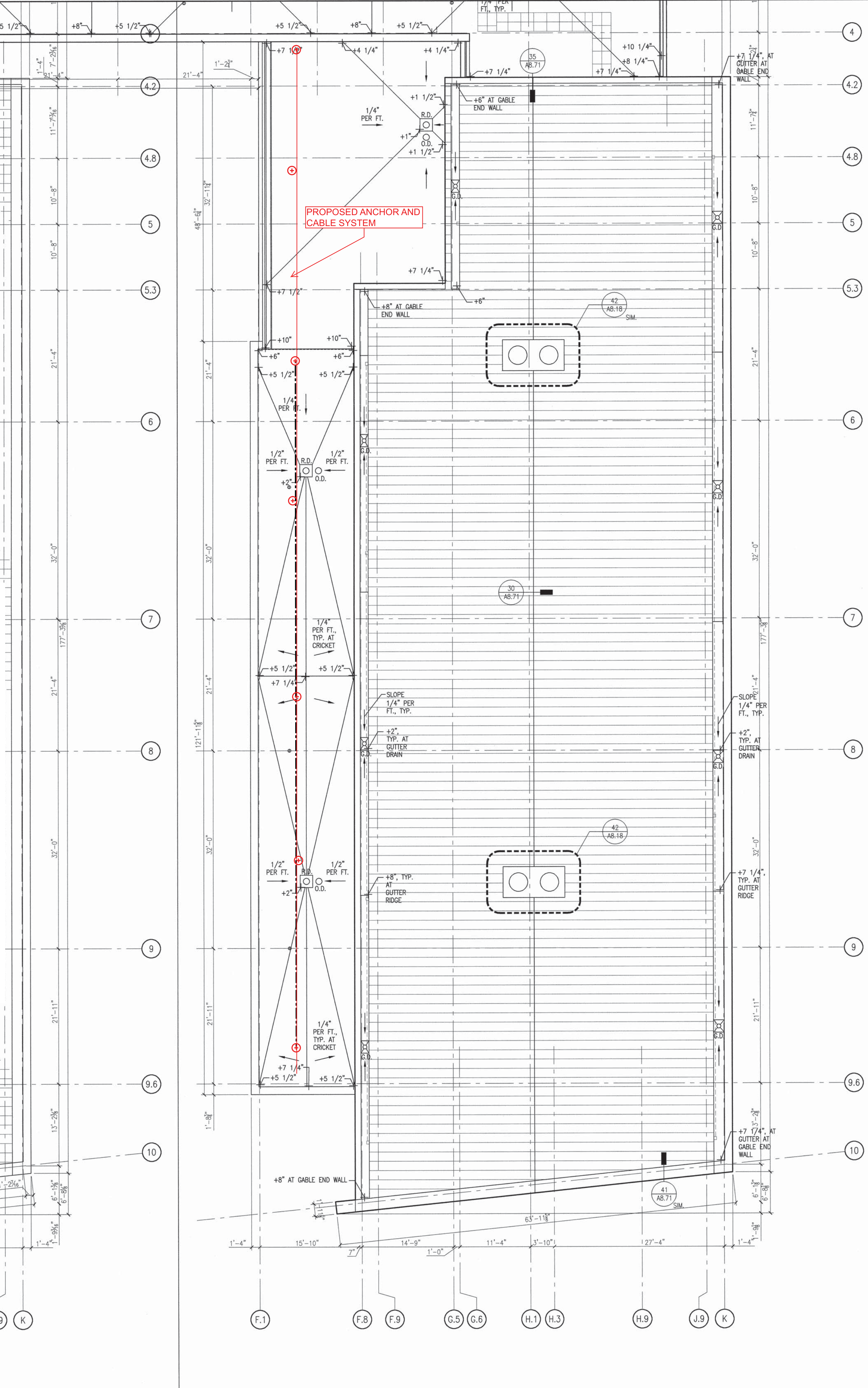
**IMPORTANT:**  
 ALL FALL ARREST SAFETY ANCHORS ARE DESIGNED TO A TYPICAL MAXIMUM FALL ARRESTING FORCE OF 1,000 LB. (8.9 kN) WHEN WEARING A BODY HARNESS, WITH A FACTOR OF SAFETY OF 2 WITHOUT ANY PERMANENT DEFORMATION, AND TO 500 LB. (2.2 kN) AGAINST FRACTURE OR DETACHMENT.  
 IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER FOR THE OVERALL PROJECT TO ENSURE THAT THE STRUCTURE ON WHICH THE SAFETY EQUIPMENT IS INSTALLED IS REINFORCED TO WITHSTAND THE LOADS INDICATED ON THIS DRAWING.

**PRO-BEL ENTERPRISES LTD.**  
 785 WESTNEY ROAD S. AJAX, ONTARIO L1S 6W1  
 TEL: (905) 427-9516 FAX: (905) 427-2545  
 1000 461-0575  
 VISIT OUR WEBSITE @ WWW.PRO-BEL.CA

**PRO-BEL DESIGN, MANUFACTURE AND INSTALLS PRE-ENGINEERED WINDOW CLEANING/SERVICE MAINTENANCE EQUIPMENT & FALL PROTECTION SYSTEMS**  
 • ROOF & WALL ANCHORS • SAFETY DEVICES  
 • OUTDOOR BEAMS • HORIZONTAL LIFELINE SYSTEMS • LADDERS & GUARDRAILS  
 • HANGING PLATFORMS • MONORAIL SYSTEMS • MATERIAL HANDLING SYSTEMS  
 • ROOF CHAIRS • STAIRWAY SYSTEMS



1 ENLARGED FLOOR PLAN  
 PENTHOUSE - TEACHING WING  
 SCALE: 1/8" = 1'-0"



2 ENLARGED ROOF PLAN  
 TEACHING WING  
 SCALE: 1/8" = 1'-0"

- GENERAL NOTES**
- SEE SHEET A9.01 FOR PARTITION TYPES
  - SEE SHEET A9.11 FOR DOOR AND FRAME TYPES
  - SEAL ALL PENETRATIONS AT FIRE RATED FLOORS, WALLS AND PARTITIONS. DUCTWORK SHALL HAVE FIRE AND/OR SMOKE DAMPERS WITH APPROPRIATE IUL RATINGS.
  - SEAL BETWEEN ALL DISSIMILAR MATERIALS WITHIN THE BSL-3 ENVIRONMENT
  - VERIFY THE SIZE AND LOCATION OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT PANS
  - ALL DIMENSIONS AT EXTERIOR MASONRY OPENINGS ARE M.O. (MASONRY OPENINGS)
  - WHERE WOOD OR ACOUSTIC WALL PANELS EXIST, DIMENSIONS ARE TO FACE OF FINISH PANELS.
- KEY NOTES**
- 5A ADA COMPLIANT SEATING SPACE
  - 5E SST. EXHAUST CAPTURE CANOPY
  - 5G SST CABLE GUARDRAIL
  - 6C FIXED PLYWOOD WOOD SHELVING
  - 6D MOVABLE WOOD LECTERN
  - 6E SOLID SURFACE COUNTERTOP
  - 6G SHELVING & CLOTHES RODS
  - 6H WOOD PRESENTATION TABLE
  - 7A GRAB BAR T-5
  - 7B TOILET TISSUE DISPENSER T-1
  - 7C COMBINATION TOWEL DISPENSER/WASTE RECEPTACLE T-3
  - 7D LIQUID SOAP DISPENSER T-4
  - 7E VENDOR T-6
  - 7F COMBINATION TOILET TISSUE DISPENSER T-2
  - 7G SANITARY NAPKIN DISPOSAL UNIT T-7
  - 7H CURTAIN ROD T-8
  - 7I FOLDING SHOWER SEAT T-9
  - 7J SOAP DISH T-9
  - 7K TOWEL BAR T-11
  - 7L UNDERLABORATORY GUARD T-14
  - 9C CONTROL JOINTS
  - 9D TACKABLE ACOUSTIC WALL PANEL
  - 9E TACKABLE CORK DISPLAY PANEL
  - 9I FABRIC WRAPPED PANELS
  - 9J ACOUSTICAL WALL PANEL
  - 9M FLOOR MATERIAL TRANSITION
  - 10A GLASS DISPLAY CABINET
  - 10C DIRECTORIES
  - 10F FIXED METAL STORAGE SHELVING - FLOOR TO CEILING
  - 10L "SMART" WHITEBOARD (F.B.O.)
  - 10M BUILT-IN RECYCLING CENTER
  - 11S EQUIPMENT ZONE (F.B.O.)
  - 11T EMERGENCY EYEWASH & SHOWER
  - 11V ADA COMPLIANT SHOWER STALL
  - 11W GENERAL PURPOSE REFRIGERATOR (F.B.O.)
  - 11X INCUBATOR (F.B.O.)
  - 11Z VENDING MACHINE (F.B.O.)
  - 11AA FIRE EXTINGUISHER CABINET
  - 11BB FIRE EXTINGUISHER-SURFACE MOUNT
  - 11CC ELECTRICAL PANEL LOCATION RE. ELEC.
  - 11DD FOVA PANEL RE: FIRE PROTECTION
  - 11FF COPY MACHINE (F.B.O.)
  - 11GG GROWTH CHAMBER (F.B.O.)
  - 12A SST COUNTER & SINKS
  - 12D PHENOLIC COMPOSITE COUNTERTOP
  - 12F RECESSED FOOT GRILLE
  - 12G SST DRINKING FOUNTAIN, RE: PLUMBING
  - 12I FLOOR MOUNTED SINK/MOP RACK T-13
  - 12J FLOOR MOUNTED CYLINDER RACK
  - 12M 5' LONG MOVABLE TABLE
  - 12N 6' LONG MOVABLE TABLE
  - 12W MOVABLE BSL-3 TABLE
  - 12X LOCATIONS FOR BIOHAZARD BOXES
  - 12Z WALL MOUNTED CYLINDER BLOCK W/ STRAP
  - 12BB SOLID SURFACE COUNTERTOP W/ S.S.TL. SINK
  - 12CC ADJ. WIRE SHELVING UNITS
  - 13C DISPLAY AQUARIUM (F.B.O.)
  - 13D ELEVATED AQUARIUM TANK (F.B.O.)
  - 13E KNOCK OUT PANEL FOR FUTURE TUNNEL RE. STRUC.
  - 13I CABINET UNIT HEATER

**FINISH NOTES**

FLOOR	BASE
A CARPET	1 STRAIGHT RESILIENT BASE
B LINOLEUM	1 COVERED RESILIENT BASE
C SEALED CONCRETE	3 RUBBER BASE
D CERAMIC TILE	4 CERAMIC TILE (CT)
E EPOXY RESIN	5 INTEGRAL EPOXY RESIN
F RUBBER TREADS AND DISERS	6 WOOD-SCRIBED TO FLOOR
G CERAMIC TILE W/ALUM. ACCENT	7 STONE
H RUBBER FLOORING	8 NO BASE
K WOOD FLOORING	9 AS PER SPECIFICATIONS
L SEE PLAN KEY NOTES	

WALL	CEILING
A PAINT	1 SEE CEILING PLAN
B PAINT & CT FULL HT. ONE WALL	2 ACOUSTICAL TILE
C EPOXY PAINT	3 GYPSUM WALL BOARD
D SEE INTERIOR ELEVATIONS/PLAN NOTES	4 EXPOSED
F AS PER SPECIFICATIONS	5 AS PER SPECIFICATIONS
G TAPED GWB ONLY	6 LINEAR WOOD
	7 WOOD GRID

**Notes:**  
 For installation of New Fall Protection System:  
 - Remove existing roofing at locations identified to receive new roof anchors;  
 - Create openings in existing roof deck;  
 - Install roof fall protection anchor system per manufacturer's requirements;  
 - Repair roof deck - provide drawings for review and approval by structural engineer;  
 - Repair roof membrane, protection board, membrane flashing and green roof assembly at all roof openings to match original conditions.

**PAYETTE**

**Design Architect**  
 Payette Associates Inc.  
 285 Summer Street  
 Boston, MA 02210-1522  
 Tel: 617-895-1000  
 Fax: 617-895-1002

**Associate Architect**  
 Lerner, Ladd & Bartels  
 236 Hope Street  
 Providence, RI 02906  
 Tel: 401-421-7715  
 Fax: 401-421-7718

**MEP Engineer**  
 Vanderweil Engineers  
 274 Summer Street  
 Boston, MA 02110-1123  
 Tel: 617-423-7423  
 Fax: 617-423-7401

**Landscape Architect**  
 Carol R. Johnson Assoc.  
 115 Broad Street  
 Boston, MA 02110  
 Tel: 617-896-2500  
 Fax: 617-896-2340

**Civil/Geotech. Engineer**  
 PARE Engineering  
 8 Blackstone Valley Place  
 Lincoln, RI 02865  
 Tel: 401-334-4100  
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**Structural Engineer**  
 Simpson, Gumpertz & Heger  
 41 Seyon Street  
 Building 1, Suite 500  
 Waltham, MA 02453  
 Tel: 781-907-9000  
 Fax: 781-907-9009

**Audio/Visual/Acoustic/Vibration**  
 Acmetech Incorporated  
 33 Moulton Street  
 Cambridge, MA 02138  
 Tel: 617-499-8052  
 Fax: 617-499-8074

Number	Date	Description
03.05.07		ISSUED FOR CONSTRUCTION
12.21.06		ADDENDUM #1
11.21.06		ISSUED FOR CONSTRUCTION
05.01.06		DESIGN DEVELOPMENT
11.11.05		SCHEMATIC DESIGN

**KEYPLAN**

**CBL S**  
 Center for Biotechnology & Life Sciences  
 UNIVERSITY OF Rhode Island

**FLOOR PLAN MECHANICAL & ROOF TEACHING WING**

**Drawing Scale**  
 1/8" = 1'-0"

**Project Number**  
 17955.00

**Date Issued**  
 June 02, 2017

**SKA-1**

©2005 Payette Associates Inc.

**Design Architect**  
 Payette Associates Inc.  
 285 Summer Street  
 Boston, MA 02210-1522  
 Tel: 617-895-1000  
 Fax: 617-895-1002

**Associate Architect**  
 Lerner, Ladds + Bartels  
 236 Hope Street  
 Providence, RI 02906  
 Tel: 401-421-7715  
 Fax: 401-421-7718

**Civil/Geotech. Engineer**  
 PARE Engineering  
 8 Blackstone Valley Place  
 Lincoln, RI 02205  
 Tel: 401-334-4100  
 Fax: 401-334-4108

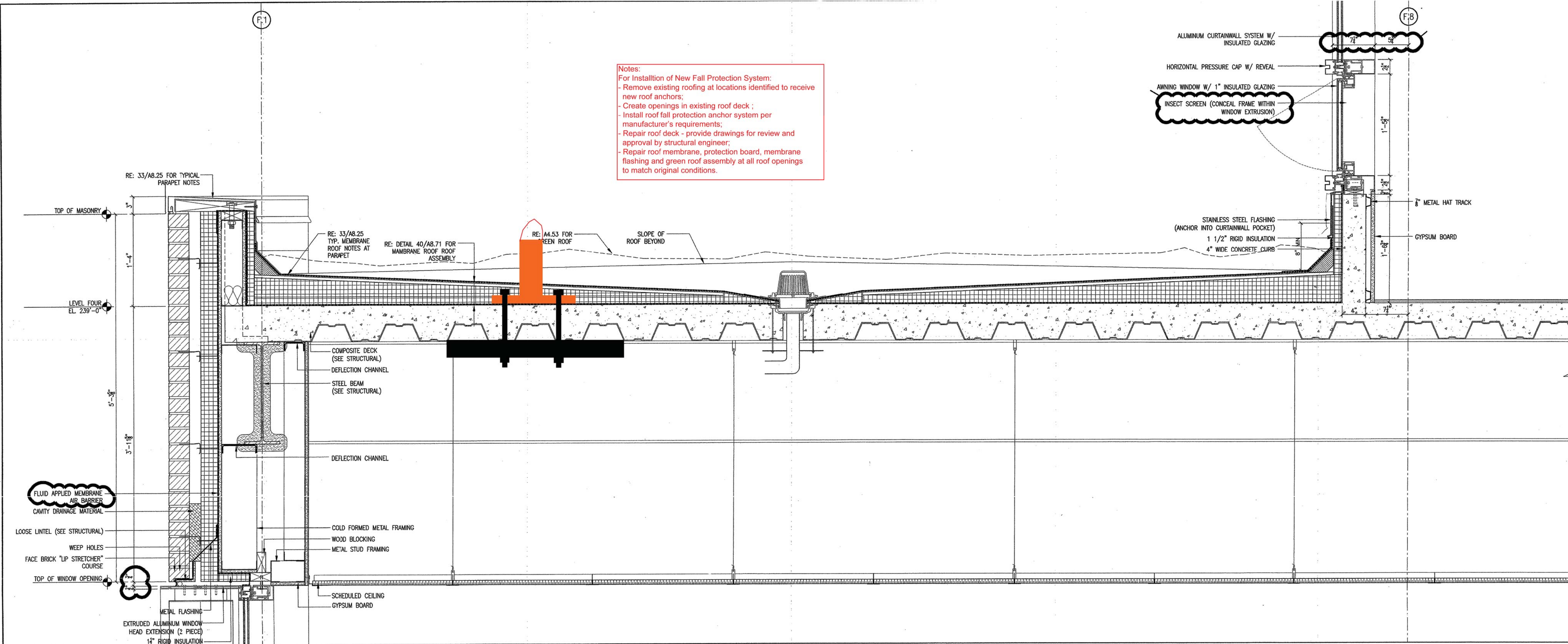
**MEP Engineer**  
 Vanderweil Engineers  
 274 Summer Street  
 Boston, MA 02110-1123  
 Tel: 617-423-7423  
 Fax: 617-423-7401

**Structural Engineer**  
 Simpson, Gumpertz & Heger  
 41 Sayon Street  
 Building 1, Suite 500  
 Waltham, MA 02453  
 Tel: 781-907-9000  
 Fax: 781-907-9009

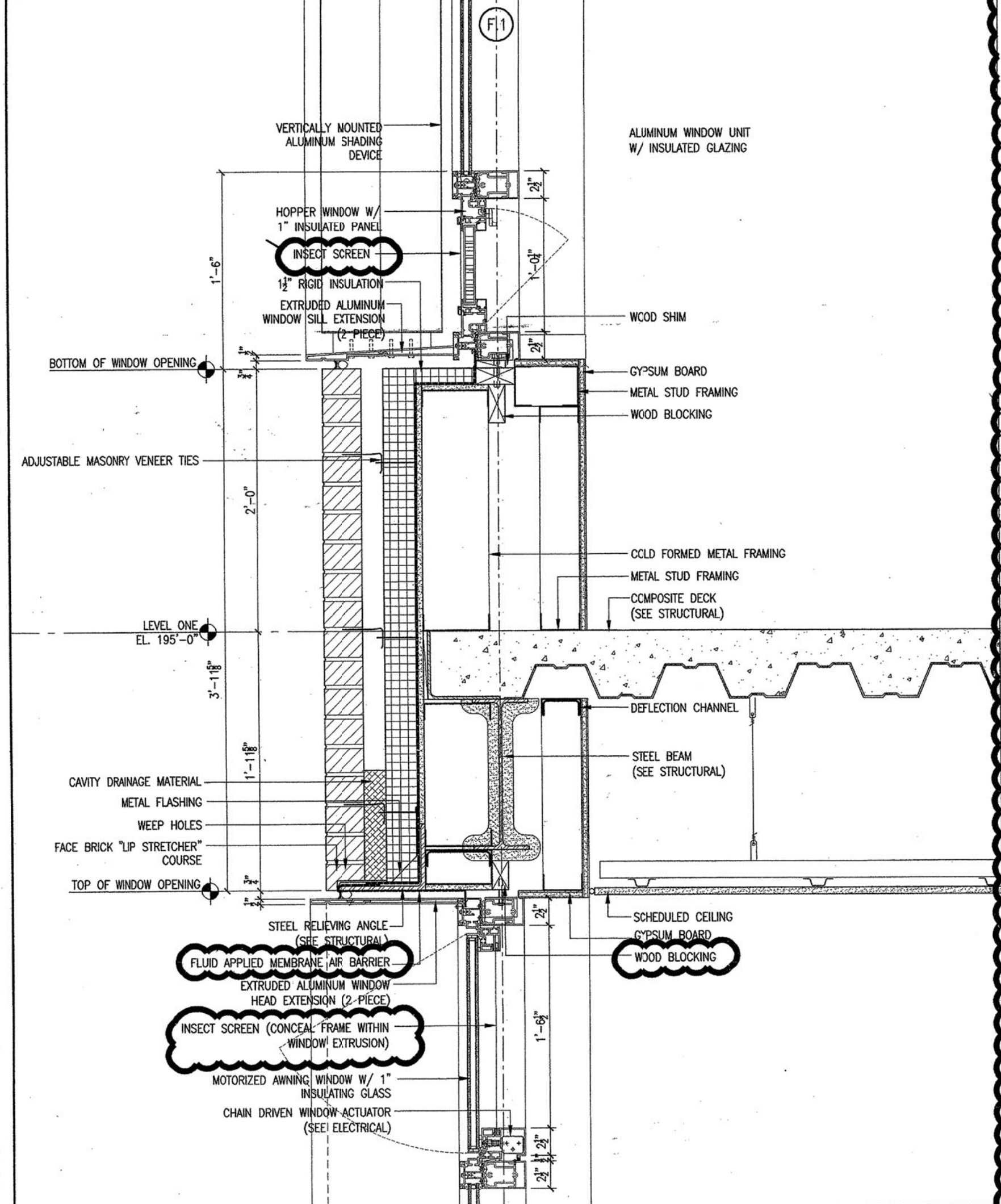
**Landscape Architect**  
 Carol R. Johnson Assoc.  
 115 Broad Street  
 Boston, MA 02110  
 Tel: 617-896-2500  
 Fax: 617-896-2340

**Audio/Visual/Acoustic/  
 Vibration**  
 Asentech Incorporated  
 33 Moulton Street  
 Cambridge, MA 02138  
 Tel: 617-499-8052  
 Fax: 617-499-8074

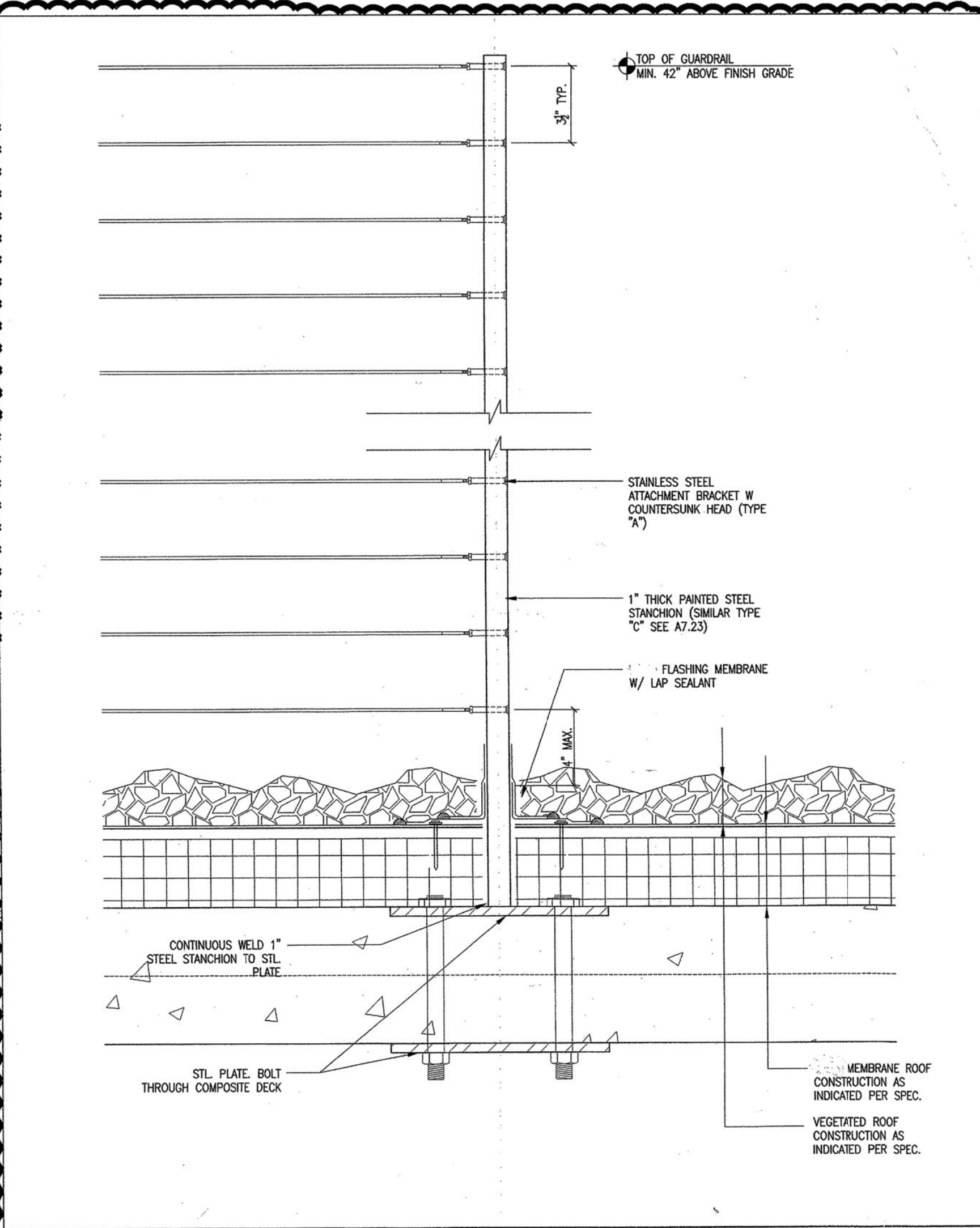
**Notes:**  
 For Installation of New Fall Protection System:  
 - Remove existing roofing at locations identified to receive new roof anchors;  
 - Create openings in existing roof deck;  
 - Install roof fall protection anchor system per manufacturer's requirements;  
 - Repair roof deck - provide drawings for review and approval by structural engineer;  
 - Repair roof membrane, protection board, membrane flashing and green roof assembly at all roof openings to match original conditions.



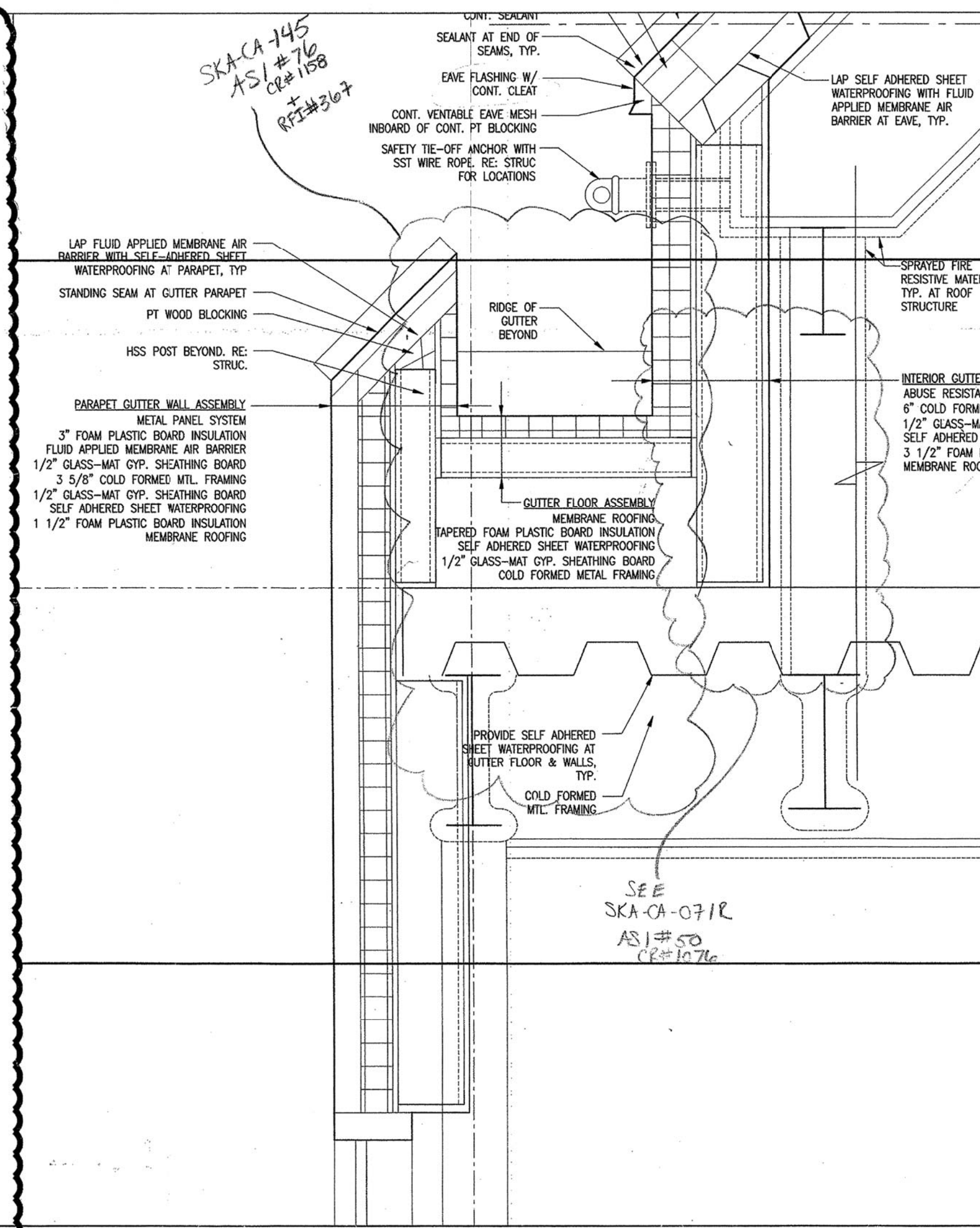
35 WALL SECTION DETAIL  
 @ WEST MASONRY WALL / GREEN ROOF  
 SCALE: 1-1/2" = 1'-0"



15 WALL SECTION DETAIL  
 @ WEST MASONRY WALL  
 SCALE: 1-1/2" = 1'-0"



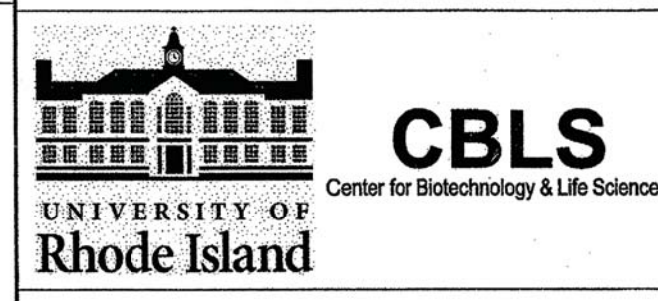
13 SECTION DETAIL  
 @ GREEN ROOF GUARDRAIL  
 SCALE: 3" = 1'-0"



11 WALL SECTION DETAIL  
 @ WEST CURTAINWALL / GREEN ROOF  
 SCALE: 1-1/2" = 1'-0"

RECORD DRAWING

Number	Date	Description
03.05.07		ISSUED FOR CONSTRUCTION
11.21.06		ISSUED FOR CONSTRUCTION
05.01.06		DESIGN DEVELOPMENT
11.11.05		SCHEMATIC DESIGN



WALL SECTION DETAILS

Drawing Scale	VARIABLES
Project Number	17955.00
Date issued	June 02, 2017

SKA-2

P:\University\_of\_RI\179550000\_Drawings\Sheet\WAB\_24.dwg, 3/15/2007, 1:00AM



**Existing Roof Photos**

**BREWSTER  
THORNTON  
GROUP  
ARCHITECTS**  
LLP

150 Chestnut Street  
Providence, R.I.  
02903  
Tel: 401.861.1600  
Fax: 401.861.5588

DATE:06/02/17

SCALE:

**CBLS GREEN ROOF - FALL PROTECTION SYSTEM**

**SKA-3**