

**ADDENDUM NUMBER 1**  
**PROJECT CODE: A0122-21-492426 and A0135-22-511452**  
**IFB# 154542103**

**November 11, 2021**

PROJECT: Virginia Tech  
New Baseball Pitching Lab  
Blacksburg, Virginia

**TO ALL BIDDERS:**

**GENERAL:** Addenda are part of the Contract Documents and are issued to amend or interpret the Drawings and Specifications. **The Addenda shall be acknowledged in the Bid Form** in the space provided for addenda acknowledgement.

Addenda list items by Drawings and Specifications. However, only specification items are referenced to Sections. Drawing changes, as well as Specification changes, described in Addenda shall include all Work required by the various trades involved to effect the changes described.

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**CHANGES AND CLARIFICATIONS – GENERAL**

1. Demolition of the existing track building shall be provided per the DEMO OF TRACK STORAGE SHED drawings. Pricing for the demo work shall be broken out, under Part A of the Bid Form, from the new work.

**CHANGES AND CLARIFICATIONS – PROJECT MANUAL**

**00 01 10 TABLE OF CONTENTS:**

**ADD** section 07 22 20 POLYISOCYANURATE ROOF INSULATION.

**07 22 20 POLYISOCYANURATE ROOF INSULATION:**

**ADD** entire section, see attachment.

**07 41 00 PREFORMED METAL STANDING SEAM ROOF, page 4, paragraph 2.2 ACCEPTABLE MANUFACTURERS, subparagraph A:**

**ADD** the following manufacturer's to the acceptable manufacturers list (products shall be required to meet or exceed the specifications):

- E. Dimensional Metals, Inc.
- F. Construction Metal Products, Inc.
- G. Sentrigard Metal Roofing Systems

**CHANGES AND CLARIFICATIONS - DRAWINGS**

The following changes shall be clouded and marked with **REVISION NUMBER 1:**

**C2.1, SITE LAYOUT AND DIMENSION PLAN:**

**REVISE** note #3 to read:

Yard Drains – The 12" Yard Drains shown around the building (numbered 25.1 through 25.10) shall be Nyloplast 12" Drain Basins or Nyloplast 12" Inline Drains (per attached detail Nyloplast Turf Traffic Installation), supported by a concrete collar, using a Pedestrian Grate, with the sump filled with Nyloplast Plug or concrete to the invert out.

**A1.3, ROOF PLAN:**

**ADD** note to roof plan that reads:

The vapor barrier shall be aluminum faced, self-adhering approved equal to VapAir Seal MD by Carlisle. The vapor barrier shall be suitable for direct application over metal deck and for use of mechanically fastened insulation and roofing.

**ATTACHMENTS**

- 1. Attendance Roster for Non-Mandatory Pre-Bid Conference**
- 2. Pre-Bid Meeting Agenda**
- 3. Nyloplast Turf Traffic Installation**
- 4. 07 22 20 POLYISOCYANURATE ROOF INSULATION**
- 5. Prebid Questions**

**THE BID DUE DATE AND TIME REMAIN NOVEMBER 18, 2021 AT 2 P.M. ALL OTHER TERMS, CONDITIONS, AND DESCRIPTIONS REMAIN THE SAME.**

**END OF ADDENDUM NUMBER 1**

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY  
ATTENDANCE ROSTER  
NON-MANDATORY PRE-BID CONFERENCE

Bid Number 154542103

Date: November 3, 2021 Time: 10:00 a.m.

PLEASE PRINT

REPRESENTATIVE	COMPANY NAME	MAILING ADDRESS	PHONE/FAX/EMAIL
John Sance	VT	300 Turner St. NW Ste 2100 Blacksburg VA 24061	PHONE: 540-231-3333 FAX: _____ EMAIL: jsenc@vt.edu
Jennifer Butler	WM Schlosser	<del>2400</del> 2400 51st Place Hyattsville VA 20781	PHONE: 301-773-1300 FAX: _____ EMAIL: bds@wmschlosser.com
Ricky Price	TLI. Cons. Serv.	4190 West main st. Salem VA 24153	PHONE: 540-389-6770 FAX: _____ EMAIL: rprice@tlicons.com
R. Stokes	Athletics VTR		PHONE: _____ FAX: _____ EMAIL: _____
Self Loveless	TCI Construction Services	Salem, VA	PHONE: (540) 537-1333 FAX: _____ EMAIL: jloveless@tlicons.com

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY  
ATTENDANCE ROSTER  
NON-MANDATORY PRE-BID CONFERENCE

Bid Number 154542103

Date: November 3, 2021 Time: 10:00 a.m.

PLEASE PRINT

REPRESENTATIVE	COMPANY NAME	MAILING ADDRESS	PHONE/FAX/EMAIL
Jeremy Whit	SRC, Inc	5711 Greendale Rd Richmond, VA 23228	PHONE: 804 355 6454 FAX: EMAIL: bids@src-inc.net
Nick Duncan	COLLEY ARCHITECTS	200 N MAIN ST SUITE 200 BLACKSBURG, VA 24060	PHONE: 540.953.2724 FAX: EMAIL: n.duncan@colleyarch.com
STACOD SIMMONS	SIMMONS COMPANY, LLC	P.O. Box 1830 MOUNT AIRY, NC 27030	PHONE: (336) 789-4909 FAX: EMAIL: BIDS@simmonscompany.com
Chris Smith	Clark Brothers Company	136 South Main St Staunton, VA 24411	PHONE: Chris Smith@clarkbrotherscompany.com FAX: EMAIL: 276-694-7153
JARED NELSON	CHARLES PERRY PARTNERS INC	110 DUNCAN DRIVE, UNIT B WYCKBURG, VA 24502	PHONE: 434-534-1954 FAX: EMAIL: <del>DAVID@CPPI.COM</del> CPPI.COM

David. shreng@cpfi.com

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY  
ATTENDANCE ROSTER  
NON-MANDATORY PRE-BID CONFERENCE

Bid Number 154542103

Date: November 3, 2021 Time: 10:00 a.m.

PLEASE PRINT

REPRESENTATIVE	COMPANY NAME	MAILING ADDRESS	PHONE/FAX/EMAIL
Brittney Gilbert	G&H Contracting	1326 Southside Dr. Salem, VA 24153	PHONE: 540-387-5059 FAX: EMAIL: Bgilbert@ghecontracting.com
DUSTIN BEECE	COPELAND EXCAVATION	2115 CRYSTAL SPRINGS AVE SW SUITE B ROANOKE, VA 24014	PHONE: 912-433-9331 FAX: DUSTIN@COPELANDEXCAVATION.COM EMAIL:
			PHONE: FAX: EMAIL:
			PHONE: FAX: EMAIL:
			PHONE: FAX: EMAIL:

Project Name:	Outfield Pitching Lab at English Field	Work Order #:	A0122-21-492426
Meeting Location:	On Site Outfield	VT Building #:	New
VTR Project Manager:	Rich Stokes	Meeting Date:	11/3/2021
Architect:	Colley	Meeting Time:	10:00

## 1. PROJECT OVERVIEW

### Scope of Work.

The scope of this project is to build a new Pitching Lab building adjacent to English Field on the main campus within athletics. The purpose of the building and construction will include:

1. Two lane pitching area for the VT baseball team. With associated components that consist of an exercise /weight area, restrooms and small utility closet.
  2. The interior will include partition of steel stud and gypsum board construction.
  3. The exterior of the building will be made up of Hokie Stone and precast and match the architectural view of the athletics and university standard in relation to surrounding structures.
  4. The roof will be a standing seam roof on steel framing
  5. A/V, power, and network infrastructure will be provided and coordinated for the owners required equipment.
- 
1. **Documents.** The Contractor will receive permitted drawings and UBO issued permits electronically at the Preconstruction meeting. A set of permitted drawings, permits and project revisions/RFIs are to be kept on-site at all times.
  2. **Work Hours.** All work is to be performed between the hours of 8am-5pm. Off Hours/Weekend work is allowed, but must be coordinated in advance with the VTR Project Manager.
  3. **Parking.** Parking passes are the responsibility of the contractors. Parking on the Blacksburg campus is extremely limited. Contractor personnel are to park in designated areas only. Park on paved or gravel areas only, do not park in the grass. Blocking accessible routes/sidewalks/ramps is not acceptable at any time; violators will be towed without warning.
  4. **Utilities Shutdowns.** Coordinate with VTR Project Manager for utility shutdowns. Please allow 1 week notice for local shutdown and 1 month notice if a full building shutdown is required. Failure to give proper notification to Virginia Tech can result in delay of your shutdown and will be the responsibility of the contractor to make up any time lost due to the postponement.
  5. **Dumpster(s)/Connex(s).** Identify dumpster locations and verify that all necessary coordination has taken place prior to dumpster(s') arrival. If parking spaces are used for placement of dumpster/connex, parking services will charge \$6 per day/per space or \$30 per month/per space, which will be the contractor's responsibility to pay for.
  6. **Road/Sidewalk Closures.** Contractor to provide at least 2 weeks' notice for single lane closures and 1 month for full road closure, or coordinated with the Athletics PM within provide Construction schedule.
  7. **N&IS.** NI&S provides demo and wiring of data. Coordination between contractor and NI&S for this scope of work.

8. **Key Shop.** The Key Shop operating hours are 7:00 am to 3:30 pm. Please limit the number of keys checked out for each job. The GC should check out the keys for its subcontractors to share. All contractors must provide a name for the person(s) that will be checking out keys. All Keys must be returned at the end of each shift. Key pick up for off hours/weekend work must be coordinated thru the VTR project manager.
9. **Laydown Area.** Laydown area for this project will be coordinated with the Athletics PM and Operation AD prior to starting project.

## 2. SAFETY

### 1. Personal Protective Equipment (PPE).

- a. Job site safety is the contractor's responsibility.
- b. Proper hand protection, hard-soled shoes, hard hats and safety glasses will be required for all workers on the project. Signage shall be posted at the jobsite notifying all personnel of PPE requirements (per VT EHS standards).

### 2. Virginia Tech Environmental Health & Safety (EHS)

- a. Any work that can create a spark, welding or an open flame requires a Hot Work Permit program and shared with the VT Project Manager. Hot work program should be kept onsite at all times.
- b. Safety Data Sheets (SDSs) for any hazardous chemicals will need to be submitted to Robin McCall-Miller and copied to the VTR Project Manager. In addition, the SDS sheets must be available on-site at all times throughout the duration of the project.
- c. Visit the link below for EHS standards for construction on the Virginia Tech campus  
[http://www.ehss.vt.edu/programs/contractor\\_safety.php](http://www.ehss.vt.edu/programs/contractor_safety.php)
- d. All contractor personnel are to wear an item that identifies the worker as an employee of the Contractor.
- e. Daily Reports. Each General Contractor is to submit a Daily Report for every project. The Daily Report is to include the name of EVERY individual working that day and where they were working. "Where they are working" includes the floor of the building.
- f. *Any Other Project Specific Hazards – Roof, confined space, etc.*

### 3. COVID-19

- a. Contractors to wear masks inside buildings at all times.
- b. Social distancing. Please maintain social distancing (6'-0" minimum distance) between persons.
- c. Healthy Hygiene. Wash hands frequently for a minimum of 20 seconds with liberal use of hand soap. Use hand sanitizer. Disinfect surfaces with commercially available products.
- d. Adhere to state/local and CDC guidelines at all times.
- e. Positive Test. Notify VT PM immediately.

## 3. ADMINISTRATION

1. **VTR Athletics Project Manager.** Below is the contact information for the VTR Project Manager.

Name	Desk Phone	Mobile Phone	E-mail Address
Rich Stokes		540-235-2367	rstokes1@vt.edu

## 2. Submittals

- a. Submittals are to be as specified in the Project Manual, or as specified in notes on the Drawings.
- b. All submittals are to be sent to the VTR Project Manager, who will review and forward them on to the project's Architect/Engineer; reviewed submittals will be returned by the Architect/Engineer to the VTR Project Manager, who will review and forward them to the Contractor.

## 3. Requests for Information (RFIs)

- a. Any questions/clarifications that arise during construction should be submitted in writing as an official RFI to the VTR Project Manager, who will coordinate with the client and Project Architect/Engineer, as required. E-mails will not suffice, although an RFI form can be e-mailed. Answered RFIs will be transmitted to the Contractor through the VTR Project Manager.
- b. Issues may be verbally discussed with the VTR Project Manager prior to submission, but doing so will not negate the requirement of a written submission.
- c. Answered RFI's are to be kept on-site for reference during UBO inspections.

## 4. Change Orders

- a. No additional work is to be performed without receipt of a fully executed VT (Change Order) Purchase Order.
- b. Any proposed changes should be submitted to the VTR Project Manager.
- c. All change orders must be submitted using a GCI, SCI, SSI Form or DGS-30-092 CO-11 form (for IFB projects only).

## 5. Invoices

- a. Invoices should be submitted electronically to the VTR Project Manager.
- b. Retainage will be released at the end of the project after all as-builts and close-out documents have been submitted and approved.
- c. The VTR PM will review, approve or reject the invoice in 48 hours from receipt. The invoice will be processed and release payment within 30 days.
- d. Include an updated schedule with each submitted invoice.

# PRE-BID MEETING



6. **Conflicts.** The Contractor shall contact the VTR Project Manager should any conflicts arise during the project. The VTR Project Manager will engage the necessary resources to resolve such conflicts.

## 4. SCHEDULE

Proposed NTP	Construction Start Date	Substantial Completion Date	Final Completion Date
Per Bid Doc.		218 days from NTP	246 from NTP

- All no work days do to weather or University closing and events must be formally documented.

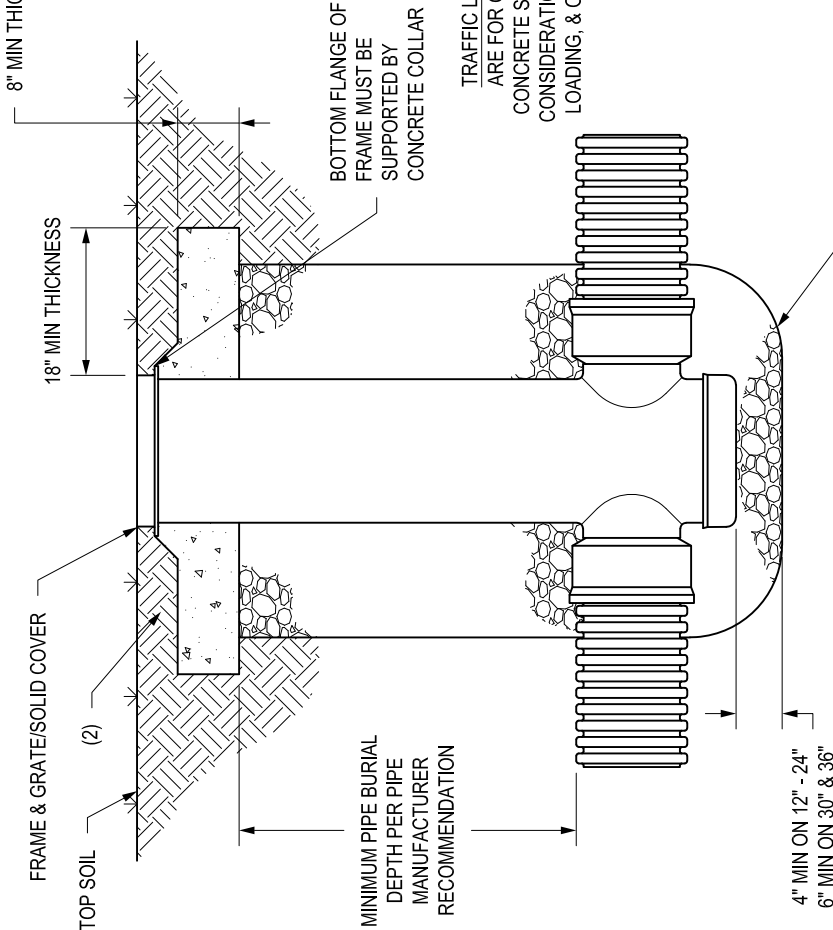
## 5. INSPECTION(S)

1. The Contractor will be responsible for notifying the VTR Project Manager when an inspection needs to be scheduled. Please allow 48-72 hours to schedule inspections. The VTR Project Manager will coordinate with the UBO office to arrange for the required inspections.

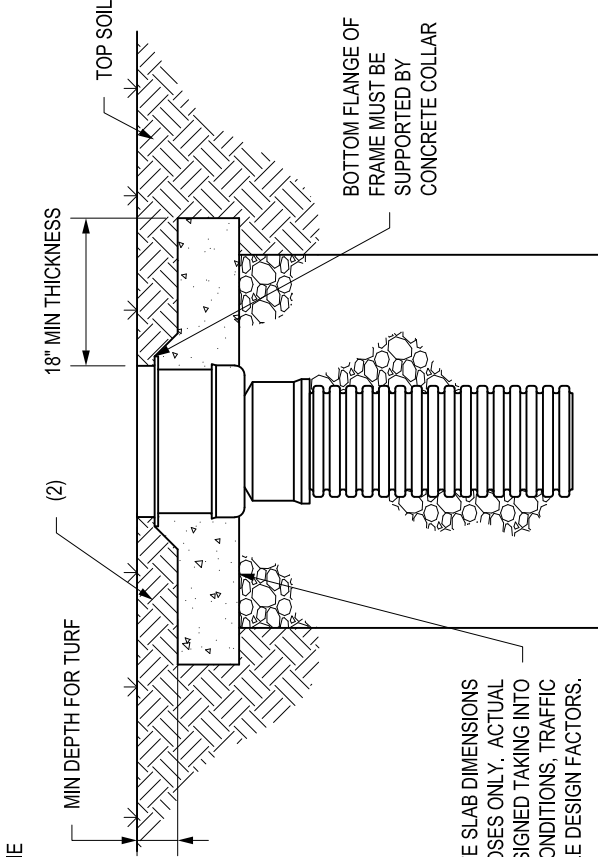
## 6. ROUNDTABLE

# NYLOPLAST TURF TRAFFIC INSTALLATION

## 12" - 36" DRAIN BASIN



## 12" - 30" INLINE DRAIN



TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS.

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

1. GRATES/SOLID COVERS SHALL MEET H-20 LOAD RATING FOR 30" PEDESTRIAN & 12" - 30" STANDARD & SOLID
2. DESIGN SHOULD ACCOUNT FOR ROOT DEPTH TO ALLOW TURF TO GROW AND PREVENT EROSION AROUND GRATE SO THAT HAZARDS DO NOT FORM.

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. ©2013 NYLOPLAST		DRAWN BY EBC	MATERIAL	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE 01-05-09	PROJECT NO./NAME	TITLE DRAIN BASIN & INLINE DRAIN TURF TRAFFIC INSTALLATION		REV G
REVISED BY NMH	DATE 06-12-18	DWG NO. 7001-110-340	DWG SIZE A	SCALE 1:25
1 OF 1	SHEET	1 OF 1	DWG NO.	REV G

**SECTION 07 22 20**

**POLYISOCYANURATE ROOF INSULATION**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Polyisocyanurate Foam-Plastic Roof Insulation:
  - 1. Inorganic polymer-coated glass fiber mat-faced (CGF) including tapered insulation.

**1.2 RELATED SECTIONS**

- A. Section 05 31 00 – Steel Decking.
- B. Section 06 10 00 - Rough Carpentry.
- C. Section 07 22 00 – Rigid Insulation.
- D. Section 07 41 00 - Preformed Metal Standing Seam Roofing.

**1.3 REFERENCES**

- A. American Association of Textile Chemists and Colorists (AATCC):
  - 1. AATCC Test Method 127 - Water Resistance: Hydrostatic Pressure Test.
- B. Air Barrier Association of America (ABAA).
- C. American National Standards Institute (ANSI):
  - 1. ANSI/SBCA FS 100-2012 - Standard Requirements for Wind Pressure Resistance of Foam Plastic Insulating Sheathing Used in Exterior Wall Covering Assemblies.
- D. ASTM International (ASTM):
  - 1. ASTM B117 - Standard Practice for Operating Salt Spray (Fog) Apparatus.
  - 2. ASTM C209 - Standard Test Methods for Cellulosic Fiber Insulating Board.
  - 3. ASTM C518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
  - 4. ASTM C920 - Standard Specification for Elastomeric Joint Sealants.
  - 5. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
  - 6. ASTM D1621 - Standard Test Method for Compressive Properties of Rigid Cellular Plastics.
  - 7. ASTM D1622 - Standard Test Method for Apparent Density of Rigid Cellular Plastics.
  - 8. ASTM D2126 - Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging.
  - 9. ASTM E72 - Standard Test Methods of Conducting Strength Tests of Panels for Building Construction.
  - 10. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
  - 11. ASTM E96 - Standard Test Methods for Water Vapor Transmission of Materials.
  - 12. ASTM E330 - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
  - 13. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
  - 14. ASTM E564 - Standard Practice for Static Load Test for Shear Resistance of Framed

- Walls for Buildings.
15. ASTM E2126 - Standard Test Methods for Cyclic (Reversed) Load Test for Shear Resistance of Vertical Elements of the Lateral Force Resisting Systems for Buildings.
  16. ASTM E2178 - Standard Test Method for Air Permeance of Building Materials.
  17. ASTM E2357 - Standard Test Method for Determining Air Leakage of Air Barrier Assemblies.
- E. International Code Council (ICC):
1. ICC-ES AC71 - Acceptance Criteria for Foam Plastic Sheathing Panels Used as Weather-resistive Barriers.
- F. National Fire Protection Association (NFPA):
1. NFPA 285 - Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components.
  2. NFPA 286 - Standard Methods Of Fire Tests For Evaluating Contribution Of Wall And Ceiling Interior Finish To Room Fire Growth.
- G. Standards Council of Canada (CAN):
1. CAN/ULC-S742 (A1) - Standard for Air Barrier Assemblies-Specification.
- H. Structural Building Components Association (SBCA).
- I. Structural Building Components Research Institute (SBCRI):
1. SBCRI Single Element Lateral Load Testing.
- J. Underwriters Laboratories (UL): USA.
1. UL 723 - Standard for Test for surface Burning Characteristics of Building Materials.
  2. UL 790 - Standard Test Methods for Fire Test of Roof Coverings.
  3. UL 1256 - Fire Test of Roof Deck Construction.
  4. UL 1715 - Fire Test of Interior Finish Material.
- K. Underwriters Laboratories (ULC): Canada.

#### **1.4 SUBMITTALS**

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
  2. Storage and handling requirements and recommendations.
  3. Installation methods.
- C. Shop Drawings: Show fabrication and installation layouts of metal wall panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
1. Accessories: Include details of all integral panel components and their interface with adjacent materials.
  2. For installed products indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
- D. Verification Samples: For each finish product specified, two samples, minimum size 4 by 6 inches (102 x 150 mm).
- E. Manufacturer Qualifications: All primary products specified in this section will be supplied by a single manufacturer with a minimum ten years experience.

- F. Installer Qualifications: All products listed in this section are to be installed by a single installer with a minimum of five (5) years demonstrated experience in installing products of the same type and scope as specified.
- G. Pre-installation Meeting: Conduct pre-installation meeting to verify project requirements, foundation/structural system/substrate conditions, and insulation manufacturer's installation instructions.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle products per manufacturer's instructions until ready for installation.

#### 1.6 SEQUENCING

- A. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.
- B. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

#### 1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

#### 1.8 WARRANTY

- A. Insulation Warranty: At project closeout, provide to Owner an executed copy of the manufacturer's standard limited warranty against manufacturing defect, outlining its terms, conditions, and exclusions from coverage.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. Acceptable Manufacturers:
  - 1. Rmax - A Business Unit of the Sika Corporation, which is located at 13524 Welch Rd.; Dallas, TX 75244-5227; Toll Free Tel: 800-527-0890; Tel: 972-387-4500; Fax: 972-387-4673; Technical Tel: 972-850-3604; Email: [technical@rmax.com](mailto:technical@rmax.com); Web: [www.rmax.com](http://www.rmax.com).
  - 2. Hunter Panels, 15 Franklin Street, Portland, Maine 04101. ASD. Phone: (207) 761-5678 or (888) 746-1114. Fax: (877) 775-1769. E-mail: [info@hpanels.com](mailto:info@hpanels.com).
  - 3. Other manufacturers are acceptable provided they completely meet or exceed the specifications listed herein.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

#### 2.2 POLYISOCYANURATE FOAM-PLASTIC ROOF INSULATION

- A. Inorganic Polymer Coated Glass Fiber Mat-Faced (CGF), Polyisocyanurate-Foam Roof Insulation: ASTM C1289, Type II, Class 2, rigid, cellular, polyisocyanurate thermal insulation.
  - 1. Basis of Design: Ultra-Max and Rmax; Tapered Ultra-Max from Rmax.
  - 2. Flame Spread Index and Smoke Contribution per ASTM E84:
    - a. Flame: 25 to 60.
    - b. Smoke: 75 to 160.

3. Above Deck Roof Assembly Fire Classification: Underwriters laboratories classification, Class A for External Flame (UL Standard 790), and Class A for Internal Flame (UL Standard 1256).
4. Above-Deck Thermal Insulation Compliance: Class 1 roofing insulation per FM Standard 4450/4470 at 1.5 inches (38 mm) minimum thickness.
5. Water Vapor Permeability per ASTM E96 desiccant method: 1.5 perm or less.
6. Air Permeability per ASTM E2178: 0.004 cfm per sq ft (1.2192 L per min per sq m) or less.
7. Compressive Strength per ASTM D1621:
  - a. 20 psi (138 kPa) nominal.
8. LTTR-Value per ASTM C518: R-8.6 minimum at thickness of 1.5 inches (38 mm) and R-17.4 minimum at thickness of 3 inches (76 mm).
9. Tapered Insulation LTTR-Value per ASTM C518: As determined by average thickness of panel.
10. Required Insulation Thickness and R-value: As indicated on the Drawings.
11. Tapered Insulation: Utilize tapered insulation as indicated on drawings to create required roof slopes.
  - a. Tapered Insulation Slope: 1/2 inch per foot (42 mm per m).

### **PART 3 EXECUTION**

#### **3.1 EXAMINATION**

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

#### **3.2 PREPARATION**

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

#### **3.3 INSTALLATION, GENERAL**

- A. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction.

#### **3.4 PROTECTION**

- A. Protect installed products until completion of project.
- B. Touch-up, repair, or replace damaged products before Substantial Completion.

**END OF SECTION**

**PREBID QUESTION FORM**

(Use separate Form for each question submitted.)

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

**Project Title:** VIRGINIA TECH ATHLETICS, NEW BASEBALL PITCHING LAB

**Project Code No.:** A0122-21-492426 and A0135-22-511452

The following question concerns Drawing Sheet (number) \_\_\_\_\_:

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The following question concerns Specifications Section (number) \_\_\_\_\_, page \_\_\_\_\_, paragraph \_\_\_\_\_:

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**All responses to questions will be made by Addendum.**

**Question submitted by:** \_\_\_\_\_

Name

Organization

**Bidders shall submit form to:** John Spence

Name

Virginia Tech

Organization

Email address:

[jspenc@vt.edu](mailto:jspenc@vt.edu)

**PREBID QUESTION FORM**

(Use separate Form for each question submitted.)

Date: 11/8/21**Project Title: VIRGINIA TECH ATHLETICS, NEW BASEBALL PITCHING LAB****Project Code No.:** A0122-21-492426 and A0135-22-511452

The following question concerns Drawing Sheet (number) \_\_\_\_\_:

A1.3 Roof Plan  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_The following question concerns Specifications Section (number) 074100, page 4, paragraph 2.2:The basis of design roof product is an exact match to CMP's S-2500 roof panel.The S-2500 panel features a 2.0" seam height, 16" width and a smooth pan, as per  
specifications. Factory installed sealant is standard in CMP roof panels. The offering  
is of 22 Ga. Galvalume (Aluminum-zinc alloy-coated steel sheet), complying with  
ASTM A 792/A 792M. I respectfully request that Virginia Tech confirm the CMP  
S-2500 Roof Panel for this project.  
\_\_\_\_\_  
\_\_\_\_\_**All responses to questions will be made by Addendum.****Question submitted by:** Bradley Goulds Construction Metal Products

Name

Organization

John SpenceVirginia Tech**Bidders shall submit form to:** Name

Organization

Email address:

[jspenc@vt.edu](mailto:jspenc@vt.edu)

**PREBID QUESTION FORM**

(Use separate Form for each question submitted.)

**Date:** November 5th, 2021

**Project Title:** VIRGINIA TECH ATHLETICS, NEW BASEBALL PITCHING LAB

**Project Code No.:** A0122-21-492426 and A0135-22-511452

The following question concerns Drawing Sheet (number) \_\_\_\_\_:

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The following question concerns Specifications Section (number) 074100, page 4, paragraph 2.2:

Request Virginia Tech to approve DMI's DL20 Metal Roof Panel for this project. DMI's DL20 is an exact match to the

Basis of Design Product, Petersen's Tite-Loc Plus Metal Roof Panel.

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**All responses to questions will be made by Addendum.**

<b>Question submitted by:</b>	<u>Conor DiBerto</u>	<u>Dimensional Metals Inc</u>
	Name	Organization

<b>Bidders shall submit form to:</b>	<u>John Spence</u>	<u>Virginia Tech</u>
	Name	Organization

Email address: [jspenc@vt.edu](mailto:jspenc@vt.edu)

**PREBID QUESTION FORM**

(Use separate Form for each question submitted.)

Date: 11/8/2021

Project Title: **VIRGINIA TECH ATHLETICS, NEW BASEBALL PITCHING LAB**

Project Code No.: A0122-21-492426 and A0135-22-511452

The following question concerns Drawing Sheet (number) C1.1:

Do you require pricing for demolition of the existing equipment shed? It states in the

Plans that demo is to be done by others, but the bid form asks for demo pricing.

The following question concerns Specifications Section (number)\_\_\_\_, page \_\_\_\_\_, paragraph \_\_\_\_\_:

**All responses to questions will be made by Addendum.**

Question submitted by: Thomas Adams Snyder and Associates  
Name Organization

Bidders shall submit form to: John Spence Virginia Tech  
Name Organization

Email address: [jspenc@vt.edu](mailto:jspenc@vt.edu)