

ADDENDUM NO. 1

August 1, 2023

New Castle County Vocational Technical School District
Hodgson Vo-Tech High School
Bid Package B - Sitework and Utilities
Page 1

**Bids are due on Tuesday, August 15, 2023 @ 3:00 PM.
The last day for questions is Monday, August 7, 2023.**

NOTICE: Attach this addendum to the project manual for this project. It modifies and becomes a part of the contract documents. Work or materials not specifically mentioned herein are to be described in the main body of the specifications and as shown in the drawings. Bidders shall acknowledge receipt of this addendum on the space provided on the Bid Form. Failure to do so may subject the bidder to disqualification.

Whenever this Addendum modifies a portion of the Project Manual added information is shown as **Bold** and deleted information is shown as ~~strikethrough~~.

The contract documents for the above referenced project, dated May 25, 2023, are amended as follows:

GENERAL CLARIFICATIONS:

1. Bid Documents may be viewed and downloaded at EDiS' FTP site. To obtain access to the FTP site, please submit your request via email to Jackie McKee at jmckee@ediscompany.com.
2. Physical copies of bids will be received at the office of New Castle County Vo-Tech School District, 1417 Newport Road, Wilmington, DE 19804 until **3:00 PM local time on Tuesday, August 15, 2023**. The outer envelope should clearly indicate: "NEW CASTLE COUNTY VOCATIONAL TECHNICAL SCHOOL DISTRICT - HODGSON VO-TECH TURF PRACTICE FIELD – BID PACK B - _____ SEALED BID – DO NOT OPEN." Bids may be hand delivered or mailed/shipped. Electronic bids will not be accepted. Bidder assumes full responsibility for timely delivery at location designated for receipt of bids. Any bids received after the stated time will be returned unopened.
3. Bid Package A Pre-bid sign in sheet dated July 27, 2023, is attached for your information.
4. Bid Package A Pre-bid agenda dated July 27, 2023, is attached for your information.
5. CAD Document Release Form is attached to request use of CAD files.
6. Trinity utility marked out field sketches, Sheets 1 – 13, are attached for your use.

MODIFICATIONS TO SPECIFICATIONS:

1. SECTION 000110 TABLE OF CONTENTS – DELETE this section in its entirety and INSERT revised section, annotated Addendum No 1 and dated August 1, 2023.





2. SECTION 000115 LIST OF DRAWINGS – DELETE this section in its entirety and INSERT revised section, annotated Addendum No 1 and dated August 1, 2023.
3. SECTION 004100 – BID FORM AND ATTACHMENTS - B-01 Demolition Above Grade/Removal - DELETE this bid form in its entirety and INSERT revised bid form, annotated Addendum No. 1 and dated August 1, 2023.
4. SECTION 004100 – BID FORM AND ATTACHMENTS - B-02 Sitework Utilities- DELETE this bid form in its entirety and INSERT revised bid form, annotated Addendum No. 1 and dated August 1, 2023.
5. SECTION 004100 – BID FORM AND ATTACHMENTS - B-03 FLAGGER Entrance Protection - DELETE this bid form in its entirety and INSERT revised bid form, annotated Addendum No. 1 and dated August 1, 2023.
6. SECTION 011100 SUMMARY OF WORK – DELETE this section in its entirety and INSERT revised section, annotated Addendum No 1 and dated August 1, 2023.
7. SECTION 312000 EARTH MOVING – ADD this section.

MODIFICATIONS TO DRAWINGS:

1. Drawing C104 – Attachment ‘A’ Existing Conditions and Demolition Plan - DELETE and INSERT the revised drawing annotated Addendum No. 1 and dated August 1, 2023:
2. DELETE and INSERT the following revised drawings annotated Addendum No. 1 and dated July 31, 2023:

C001 - Index Plan

C110 - Site Layout and Utility Plan

C111 - Site Layout and Utility Plan

C112 - Site Layout and Utility Plan

C113 - Site Layout and Utility Plan

C114 - Site Layout and Utility Plan

C115 - Site Layout and Utility Plan

C116 - Site Layout and Utility Plan

C117 - Site Layout and Utility Plan

C121 - Grading Plan

C122 - Grading Plan

C214 - Construction Site Stormwater Management Plan

C215 - Construction Site Stormwater Management Plan

C220 - Construction Site Stormwater Management Plan

C230 - Post-Construction Stormwater Management Plan Facility #1

C231 - Post-Construction Stormwater Management Plan Facility #1

C232 - Post-Construction Stormwater Management Plan Facility #2

C233 - Post-Construction Stormwater Management Plan Facility #2

C300 - Landscape Plan



**LIST OF ATTACHMENTS:**

Pre-bid Sign in Sheet
Pre-bid Meeting Minutes
Trinity Utility Field Sketches
CAD Document Release Form
Attachment 'A' Drawing C104 – Existing Conditions and Demolition Plan
Section 000110 Table of Contents
Section 000115 List of Drawings
Section 004100 – Bid Form and Attachments - B-01 Demolition Above Grade/Removal
Section 004100 – Bid Form and Attachments - B-02 Sitework Utilities
Section 004100 – Bid Form and Attachments - B-03 Flagger Entrance Protection
Section 011100 Summary of Work
Section 312000 Earth Moving
Drawing C001 - Index Plan
Drawings C110 – C117 Site Layout and Utility Plan
Drawings C121 – C122 Grading Plan
Drawings C214 – C215 Construction Site Stormwater Management Plan
Drawing C220 - Construction Site Stormwater Management Plan
Drawings C230 – C231 Post-Construction Stormwater Management Plan Facility #1
Drawings C232 – C233 Post-Construction Stormwater Management Plan Facility #2
Drawing C300 - Landscape Plan

End of Addendum No. 1

Document Transmission Agreement

By receiving, downloading, installing and/or using the drawings, Computer Aided Design (CAD) data, specifications, plans and/or other documents herein or hereby transmitted (collectively "Documents"), whether the Documents are delivered via CD-ROM, DVD-R, electronic mail, facsimile or other electronic medium or form or downloaded from a website, the recipient or user of the Documents ("User") forms an agreement with Landmark Engineering, Inc. ("LEI") dba Landmark Science & Engineering, and agrees to be bound by the terms and conditions set forth herein. LEI retains ownership of the Documents and permission to use the Documents is given by LEI only subject to the terms and conditions of this Agreement. If the Documents are related to or provided in connection with a certain Project, that Project is as follows:

Project Name: Hodgson HS Bid Pac B
Project LEI Commission No: c3030-1

1. Proprietary Rights: The Contract Documents were prepared by and are the property of LEI. LEI has and retains all common law, statutory and other reserved rights in and to the Documents, in addition to all copyrights thereto.
2. Limitation in Copying: Neither User nor any third party User gives the Documents to or copies the Documents for shall own or claim a copyright in the Documents. User is authorized to use and reproduce applicable portions of the Documents only as necessary. All copies of the Documents shall be returned or suitably accounted for to LEI upon demand. All copies made under this authorization shall bear the statutory copyright notice, if any, shown on the Documents as originally delivered. Submission or distribution to meet official regulatory requirements or for any other legitimate purpose is not to be construed as publication in derogation of LEI's copyrights or other reserved rights.
3. Limitation on Use: The Documents are for use solely with respect to the matter for which User received the Documents from LEI or the Project, as applicable. User agrees that User shall not use the Documents, in whole or in part, in connection with any other matter or project without the prior written consent of LEI. Further, User shall use its best efforts to prevent any third party from misusing the documents. Use of the Documents by User for any purpose other than that for which they were intended, without LEI's written consent or LEI's verification or adaptation for the specific purpose intended, will be at User's sole risk and full legal responsibility. Compensation for verification or adaptation by LEI will be required. LEI shall not be responsible in any manner for layout errors, computation errors or data omissions resulting from the use of the Documents or for errors resulting from the modification or misuse thereof.
4. Inherent Unreliability of Electronic Documents: The Documents are provided for the convenience of User only. The Documents were prepared as LEI's internal working documents. As such, the Documents may be incomplete, contain deliberate or unintentional inaccuracies or be in part obsolete. Further, while the Documents may appear to be accurate, the apparent accuracy is an artifact of the techniques used to generate them and is in no way intended to imply actual accuracy. User takes full responsibility for the accuracy and correctness of and for properly checking and coordinating all relevant dimensions and measurements, areas, inventories, details, member sizes, gage, quantities of materials or other data extracted from the Documents, either manually or with the use of a computer. Reduction of the Documents to electronic media from, as well as the processes of transmitting and downloading, can affect the integrity of the Documents. LEI's delivery of the Documents in electronic form shall not impose on LEI an obligation to transmit any of all subsequent changes in or to the documents. LEI makes no representation or warranty, expressed or implied, regarding the accuracy, currency, completeness or permanence of the Documents. Information contained in other documents (bulletins, change orders, field orders, clarifications, etc.) may not have been incorporated into the Documents. In the event of a conflict between LEI's Construction Issue Plans and specifications and the Documents, the Construction Issue Plans and Specifications shall govern, and it is User's sole responsibility to determine if any such conflict exists. User agrees to and shall indemnify and hold LEI harmless from and against and defend LEI in the event of any action generated through or arising out of the use of the Documents including the payment or reimbursement of attorneys' fees and expenses.
5. Remedies for Breach: In the event User uses or publishes the Documents in a manner contrary to this Agreement, LEI shall be entitled to all remedies available at law or in equity including without limitation injunctive relief and barring such usage and wrongful publication, without the necessity of prior notice, opportunity to cure or proof of actual damages, and User shall be entitled to recover its reasonable attorney's fees and costs incurred in securing any such relief.
6. Terms of Contract between LEI and User Apply: If User is party to a contract or agreement of any kind with LEI, this Agreement incorporates by reference any restriction on use of the Documents contained in such contract or agreement between LEI and User.

Name of User: _____

Name & Title of Person Authorized to Execute Agreement: _____

Signature of Authorized Person: _____ Date: _____



New Castle County
Hodgson Vo Tech High School
BPB Pre-Bid Meeting
27-Jul-23

Please Print!

COMPANY NAME	CONTACT NAME	EMAIL ADDRESS	PHONE NUMBER
EDIS	Kevin Lucas	Vassard@company.com	302-478-1083
EDIS	Josh Padick	jpadick@ediscorp.com	
LANDMARK	TED WILLIAMS	ted@landmark-se.com	
Kent Construction	Peter Bayer	Peter@kentconstruction.com	302-841-1974
A-DEL Construction	Harold Joffe	ESTIMATES@A-DEL.COM	302 453 8286
EDIS	Shawn David	sdavid@ediscorp.com	302-553-1227
Reynold Construction	Steve Newman	snewman@reynold.com	609-202-4112
Eastern States	Math Arpison	marnig@eastern-states.net	302-690-7039
ExxonMobil	Paul Rogers	Exxon@ExxonMobil.COM	302-317-2275
Hyden Bladen	Rever Bladen	Hyden@leep-de.com	702 230-1988
Brian Smith	Brian Smith	BSS CONTRACTORS LLC	610-345-1316
Great Contractors	Dwayne Thomas	bsmith@bsscontractors.com	
Great Contractors	Dwayne Thomas	GreatContractors302@gmail.com	(302) 503 2348
Great Contracting	Brian Chandler	Chandler@Gmail.com	302.922-2605
NCCVT	Dr. Seaton	A.Seaton@NCCVT.DEL.US	302-299-9106
CIFC	Halana Hoyt	hoyt@generaprightcontractors.com	302-579-2816
CORRADO	Rick Barnhart	RICKBARNHART@CORRADO.COM	302-469 6036

**AGENDA**

**New Castle County Vocational Technical School District
Hodgson Vo-Tech High School
Bid Package B Sitework and Utilities
Pre-Bid Meeting
27 July 2023**

1. Introduction

Owner – NCCVT - New Castle County Vocational Technical School District
Design Team Members – ABHA | BSA+A, Landmark, MacIntosh, Gipe
EDiS Role – Construction Manager. NCCVT is holding the contracts with the contractors.

2. Project

Contract B-01: Demolition Above Grade/Removal
Contract B-02: Sitework & Utilities
Contract B-03: Flagger Entrance Protection

3. Bid Information

- Bids will be received at the office of New Castle County Vo-Tech School District, 1417 Newport Road, Wilmington, DE 19804 until **3:00 PM local time on Tuesday 15 August 2023**
- Bid opening is public.
- Three (3) copies of the bids should be in a sealed envelope clearly marked **"NEW CASTLE COUNTY VOCATIONAL TECHNICAL SCHOOL DISTRICT - HODGSON VO-TECH SITEWORK AND UTILITIES – BID PACK B-___ SEALED BID – DO NOT OPEN"** The bidder's name and address should also be marked on the envelope. Electronic bids will not be accepted.
- Addenda are the only method to change the documents.
- No addenda will be issued later than four (4) days prior to the bid opening, except when cancelling the bid, extending the bid opening date or changing the bid opening location.
- Bid bonds are required.
- Performance and Payment Bonds are required
- Drug Testing Program is required. An affidavit of Employee Drug Testing Program is included in Section 004100
- Craft Training Program is required. An affidavit is included in Section 004100 and must be included with the bid submission.
- The bid form is in Section 004100 of the project manual. No modifications, clarifications or qualifications are allowed.

4. DBE Pilot Program over view**5. Section 003132 Geo-Tech Reports****6. Section 004100 Bid Form**



7. Review Subcontractors List for each contract. DO NOT ADD ANY SUBCONTRACTOR CATEGORIES TO THE LISTS.
8. Contract, AIA A132/CMA 2019 Edition, is in Section 005200 of the project manual
9. General Conditions of the Contract, AIA A232-2019 are in Section 007200.
10. Supplementary General Conditions are in Section 007300.
11. Scopes of Work are in Section 011100
Note: BP-B contractors are responsible for reviewing the documents of previously issued bid packages for reference and incorporation in preparing your proposal.
12. Review Site Logistic Requirements - Loading & unloading, onsite storage, site access, parking.
13. Allowances are in Section 012100 of the project manual, listed in the scopes of work, and on the bid forms.
14. Unit Costs are in Section 012200 of the project manual, listed in the scopes of work, and on the bid forms.
15. Alternates are in Section 012300 of the project manual. There is *one alternate* listed for this Bid Pac
16. Contractors are required to use the web-based project management system – Building Blok. See Section 013125
17. A pre-bid construction schedule can be found in Section 013216 of the project manual. **This will be issued by addendum.**
18. Insurance requirements are listed in Section 006216 of the project manual.
19. Safety program requirements are in Section 013523 of the project manual.
20. Prevailing wage rates must be followed. A copy of the current wage rates can be found in Section 007343 of the project manual.
21. Submit questions in writing and e-mail to Kevin Lucas klucas@ediscompany.com, (302) 421-2893.
22. No questions after seven (7) days prior to bid. August 10th.
23. Site visit is not mandatory but is encouraged. By submitting a proposal, the contractor bidding the project attests that they have familiarized themselves with the site and all of the existing conditions affecting the work.
24. Documents may be viewed and downloaded at EDiS' FTP site after approval for circulation by NCCVT. Bidders requesting the log on information may obtain username and password permission by contacting Jackie McKee with EDiS Company at jmckee@ediscompany.com.





EDiS COMPANY

TEL. (800) 995-EDiS • ediscompany.com

25. CAD Document Release Form for file request. Sign and Return to get access to CAD files.
26. It is the responsibility of each Bidder to review and coordinate all Project Documents. This includes plans, specifications and addendums. All bidders must provide all requested contact information on Pre-Bid Meeting sign in sheet or email the information to Jackie McKee to receive notice of addendums.
27. EDiS POC: Kevin Lucas at klucas@ediscompany.com, (302) 421-2893.

110 South Poplar Street • Suite 400 • Wilmington, DE 19801

Malvern, PA • Wilmington, DE • Rehoboth Beach, DE



000110 - TABLE OF CONTENTS

This Bid Package includes the following previous Bid Package documentation for reference:

BPA Turf Field Specifications dated February 20, 2023

BPA Turf Field Drawings dated February 16, 2023

BPA Addendum #1 dated March 30, 2023

BPA Addendum #2 dated April 3, 2023

Division 00 - Procurement and Contract Requirements

000110	Table of Contents
000115	List of Drawings
001116	Invitation to Bid
002113	Instructions to Bidders
003132	Geotechnical Data
004100	Bid Forms
004313	Bid Bond
005200	Agreement Forms: • AIA Document A132-2019 Standard Form of Agreement Between Owner and Contractor • Supplement to Agreement Between Owner and Contractor A132-2019 • AIA Document A132-2019 Exhibit A - Insurance and Bonds • Supplement to A132-2019 – Exhibit A - Insurance and Bonds
006113	Performance and Payment Bond Forms
006216	Certificate of Insurance
007200	General Conditions AIA Document A232 - 2019
007300	Supplementary General Conditions A232-2019
007343	Wage Rate Requirements
008113	General Requirements
008114	Drug Testing Program and Forms
008115	Affidavit of Craft Training

Division 01 - General Requirements

011100	Summary of Work - Work Covered by Contract Documents
012100	Allowances
012200	Unit Prices
012300	Alternates
012600	Change Order Procedures
012613	Contractor Compensation
012900	Payment Procedures
013113	Project Coordination Meetings
013119	Preinstallation Meetings
013125	Web-Based Project Management System
013216	Construction Progress Schedule
013219	Submittals Register

013226	Contractor Daily Reports
013300	Submittal Procedures
013523	Safety Program
014500	Quality Control
015113	Temporary Electricity
015200	Construction Facilities & Temporary Controls
016200	Material and Equipment
017123	Field Engineering
017329	Cutting and Patching
017419	Construction Waste Management and Disposal
017700	Contract Closeout

Division 10 – Specialties

10 75 00	Flagpoles
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Division 22 – Plumbing

22 11 13	Facility Water Distribution Piping
22 13 13	Facility Sanitary Sewers

Division 31 – Earthwork

31 20 00	Earth Moving
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Division 32 – Exterior Improvements

32 12 16	Asphalt Paving
32 13 13	Concrete Paving
32 31 13	Chain Link Fences and Gates

Division 33 – Utilities

33 41 00	Storm Utility Drainage Piping
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END OF SECTION

SECTION 000115 - LIST OF DRAWINGS

This Bid Package includes, by reference, the following previous Bid Package documentation:

BPA Turf Field Specifications dated February 20, 2023

BPA Turf Field Drawings dated February 16, 2023

BPA Addendum #1 dated March 30, 2023

BPA Addendum #2 dated April 3, 2023

DRWG NO.	DRAWING NAME	BID PACKS	ISSUE DATE	LATEST REV. DATE
C001	Index Plan	B	7/18/23	7/31/23
C100	Existing Conditions and Demolition Plan	B	7/18/23	
C101	Existing Conditions and Demolition Plan	B	7/18/23	
C102	Existing Conditions and Demolition Plan	B	7/18/23	
C103	Existing Conditions and Demolition Plan	B	7/18/23	
C104	Existing Conditions and Demolition Plan	B	7/18/23	
C105	Existing Conditions and Demolition Plan	B	7/18/23	
C106	Existing Conditions and Demolition Plan	B	7/18/23	
C107	Existing Conditions and Demolition Plan	B	7/18/23	
C110	Site Layout and Utility Plan	B	7/18/23	7/31/23
C111	Site Layout and Utility Plan	B	7/18/23	7/31/23
C112	Site Layout and Utility Plan	B	7/18/23	7/31/23
C113	Site Layout and Utility Plan	B	7/18/23	7/31/23
C114	Site Layout and Utility Plan	B	7/18/23	7/31/23
C115	Site Layout and Utility Plan	B	7/18/23	7/31/23
C116	Site Layout and Utility Plan	B	7/18/23	7/31/23
C117	Site Layout and Utility Plan	B	7/18/23	7/31/23
C120	Grading Plan	B	7/18/23	
C121	Grading Plan	B	7/18/23	7/31/23
C122	Grading Plan	B	7/18/23	7/31/23
C123	Grading Plan	B	7/18/23	
C124	Grading Plan	B	7/18/23	
C125	Grading Plan	B	7/18/23	
C126	Grading Plan	B	7/18/23	
C127	Grading Plan	B	7/18/23	
C130	Storm Drainage Profiles	B	7/18/23	
C131	Storm Drainage Profiles	B	7/18/23	
C132	Storm Drainage Profiles	B	7/18/23	
C133	Storm Drainage Profiles	B	7/18/23	
C134	Storm Drainage Profiles	B	7/18/23	
C135	Storm Drainage Profiles	B	7/18/23	
C136	Storm Drainage Profiles	B	7/18/23	
C137	Storm Drainage Profiles	B	7/18/23	

DRWG NO.	DRAWING NAME	BID PACKS	ISSUE DATE	LATEST REV. DATE
C201	Cover Sheet & General Notes	B	7/18/23	
C202	Overall Construction Site Phasing Plan	B	7/18/23	
C203	Overall Pre-Construction Site Stormwater Management Plan	B	7/18/23	
C204	Pre-Construction Site Stormwater Management Plan	B	7/18/23	
C205	Pre-Construction Site Stormwater Management Plan	B	7/18/23	
C206	Pre-Construction Site Stormwater Management Plan	B	7/18/23	
C207	Pre-Construction Site Stormwater Management Plan	B	7/18/23	
C208	Pre-Construction Site Stormwater Management Plan	B	7/18/23	
C209	Pre-Construction Site Stormwater Management Plan	B	7/18/23	
C210	Pre-Construction Site Stormwater Management Plan	B	7/18/23	
C211	Pre-Construction Site Stormwater Management Plan	B	7/18/23	
C212	Overall Pre-Construction Site Stormwater Management Plan	B	7/18/23	
C213	Construction Site Stormwater Management Plan	B	7/18/23	
C214	Construction Site Stormwater Management Plan	B	7/18/23	7/31/23
C215	Construction Site Stormwater Management Plan	B	7/18/23	7/31/23
C216	Construction Site Stormwater Management Plan	B	7/18/23	
C217	Construction Site Stormwater Management Plan	B	7/18/23	
C218	Construction Site Stormwater Management Plan	B	7/18/23	
C219	Construction Site Stormwater Management Plan	B	7/18/23	
C220	Construction Site Stormwater Management Plan	B	7/18/23	7/31/23
C221	Construction Site Stormwater Management Details	B	7/18/23	
C222	Construction Site Stormwater Management Details	B	7/18/23	
C230	Post-Construction Stormwater Management Plan Facility #1	B	7/18/23	7/31/23
C231	Post-Construction Stormwater Management Plan Facility #1	B	7/18/23	7/31/23
C232	Post-Construction Stormwater Management Plan Facility #2	B	7/18/23	7/31/23
C233	Post-Construction Stormwater Management Plan Facility #2	B	7/18/23	7/31/23
C234	Post-Construction Stormwater Management Plan Facility #3	B	7/18/23	
C235	Post-Construction Stormwater Management Plan Facility #3	B	7/18/23	
C300	Landscape Plan	B	7/18/23	7/31/23
C350	Sanitary Sewer Index Plan	B	7/18/23	
C351	Sanitary Sewer Plan and Profiles	B	7/18/23	
C352	Sanitary Sewer Plan and Profiles	B	7/18/23	
C353	Sanitary Sewer Plan and Profiles	B	7/18/23	
C354	Sanitary Sewer Plan and Profiles	B	7/18/23	
C355	Sanitary Sewer Details	B	7/18/23	
C400	Fire Marshal Record Type Plan	B	7/18/23	
C401	Fire Marshal Record Type Plan	B	7/18/23	
C402	Fire Marshal Record Type Plan	B	7/18/23	
C403	Fire Marshal Record Type Plan	B	7/18/23	
C404	Fire Marshal Record Type Plan	B	7/18/23	
C450	Commercial Entrance Plans	B	7/18/23	

DRWG NO.	DRAWING NAME	BID PACKS	ISSUE DATE	
C451	Commercial Entrance Plans	B	7/18/23	
C452	Commercial Entrance Plans	B	7/18/23	
C453	Commercial Entrance Plans	B	7/18/23	
C454	Commercial Entrance Plans	B	7/18/23	
C455	Commercial Entrance Plans	B	7/18/23	
C456	Commercial Entrance Plans	B	7/18/23	
C457	Commercial Entrance Plans	B	7/18/23	
C458	Commercial Entrance Plans	B	7/18/23	
C459	Commercial Entrance Plans	B	7/18/23	
C500	Site Construction Details	B	7/18/23	
C501	Site Construction Details	B	7/18/23	
C502	Site Construction Details	B	7/18/23	

END OF SECTION

CONTRACT NO: B-01 DEMOLITION ABOVE GRADE/REMOVAL

BID FORM

For Bids Due: August 15, 2023

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$50,000.00 have been included in the Base Bid price listed above. This allowance is to be used at the Owner's discretion. All remaining allowance shall be returned to the Owner at completion.

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within _____ calendar days of the Notice to Proceed.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)
(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder's listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor's full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert "not applicable", "N/A", "self" or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Demolition/Removal</u>			
2. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date _____.

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds.

We hereby certify that we have in place or will implement during the entire term of the contract a Mandatory Drug Testing Program for our employees on the jobsite, including subcontractors, that complies with this regulation:

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT OSD Registration Number or	DBE Percentage of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: B-02 SITEWORK & UTILITIES

BID FORM

For Bids Due: August 15, 2023

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$160,000 have been included in the Base Bid price listed above. This allowance is to be used at the Owner's discretion. All remaining allowance shall be returned to the Owner at completion.

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 1: Add 110 Additional Parking Stalls

Add/Deduct _____ (\$ _____)

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within _____ calendar days of the Notice to Proceed.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
Bid Security
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder's listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor's full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert "not applicable", "N/A", "self" or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Sitework</u>			
2. <u>Asphalt Paving</u>			
3. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date _____.

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds.

We hereby certify that we have in place or will implement during the entire term of the contract a Mandatory Drug Testing Program for our employees on the jobsite, including subcontractors, that complies with this regulation:

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT OSD Registration Number	or DBE Percentage of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: B-03 FLAGGER Entrance Protection

BID FORM

For Bids Due: August 15, 2023

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$20,000 have been included in the Base Bid price listed above. This allowance is to be used at the Owner's discretion. All remaining allowance shall be returned to the Owner at completion.

UNIT PRICES

Unit prices conform to applicable project specification section. Refer to the specifications for a complete description of the following Unit Prices:

	<u>Add</u>	<u>Deduct</u>	<u>Add</u>	<u>Deduct</u>
1. Addition or deletion of manhours from base contract.	_____	_____	_____	_____

NOTE: The difference in price between Add and Deduct in the above Unit Prices should not exceed fifteen percent (10%).

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within _____ calendar days of the Notice to Proceed.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
Bid Security
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder's listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor's full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert "not applicable", "N/A", "self" or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Flagger</u>			
2. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date _____.

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds.

We hereby certify that we have in place or will implement during the entire term of the contract a Mandatory Drug Testing Program for our employees on the jobsite, including subcontractors, that complies with this regulation:

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT OSD Registration Number or	DBE Percentage of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

SECTION 011100 - SUMMARY OF WORK

1. RELATED DOCUMENTS

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

2. CONTRACTS

- A. The work will be performed under separate prime contracts managed by the Construction Manager.

3. ALTERATIONS & COORDINATION

- A. Contractor shall be responsible to coordinate their work with the work of others, including, but not limited to, the preparation of general coordination drawings, diagrams and schedules, and control of site utilization, from the beginning of activity, through project close-out and warranty periods.

4. KNOWLEDGE OF CONTRACT REQUIREMENTS

- A. The Contractor and his Subcontractors, Sub-subcontractors and material men shall consult in detail the Contract Documents for instructions and requirements pertaining to the Work, and at his and their cost, shall provide all labor, materials, equipment and services necessary to furnish, install and complete the work in strict conformance with all provisions thereof.
- B. The Contractor will be held to have examined the site of the Work prior to submitting his proposal and informed himself, his Subcontractors, Sub-subcontractors and material men of all existing conditions affecting the execution of the Work.
- C. The Contractor will be held to have examined the Contract Documents and modifications thereto, as they may affect subdivisions of the Work and informed himself, his Subcontractors, Sub-subcontractors and material men of all conditions thereof affecting the execution of the Work.
- D. The Scope of Work for the Contract is not necessarily limited to the description of each section of the Specifications and the illustrations shown on the Drawings. Include all minor items not expressly indicated in the Contract Documents, or as might be found necessary as a result of field conditions, in order to complete the Work as it is intended, without any gaps between the various subdivisions of work.
- E. The Contractor will be held to be thoroughly familiar with all conditions affecting labor in the area of the Project including, but not limited to, Unions, incentive pay, procurements, living, parking and commuting conditions and to have informed his Subcontractors and Sub-subcontractors thereof.

5. CONTRACT DOCUMENTS INFORMATION

- A. The Contract Documents are prepared in accordance with available information as to existing conditions and locations. If, during construction, conditions are revealed at variance with the Contract Documents, notify the Construction Manager immediately, but no more than three (3) days from the day the variance is first known. Failure to give timely notice shall operate to waive any claim Contractor might otherwise have for an adjustment to Contract Time or Sum as a consequence of such variance.
- B. The Specifications determine the kinds and methods of installation of the various materials, the Drawings establish the quantities, dimensions and details of materials, the schedules on the Drawings give the location, type and extent of the materials.
- C. Dimensions given on the Drawings govern scale measurements and large scale drawings govern small scale drawings, except as to anything omitted unless such omission is expressly noted on the large scale drawings.
- D. The techniques or methods of specifying to record requirements varies throughout text, and may include "prescriptive", "open generic/descriptive", "compliance with standards", "performance", "proprietary", or a combination of these. The methods used for specifying one unit of work has no bearing on requirements for another unit of work.
- E. Whenever a material, article or piece of equipment is referred to in the singular number in the Contract Documents, it shall be the same as referring to it in the plural. As many such materials, articles or pieces of equipment shall be provided as are required to complete the Work.
- F. Whenever a material, article or piece of equipment is specified by reference to a governmental, trade association of similar standard, it shall comply with the requirements of the latest publication thereof and amendments thereto in effect on the bid date.
- G. In addition to the requirements of the Contract Documents, Contractor's work shall also comply with applicable standards of the construction industry and those industry standards are made a part of Contract Documents by reference, as if copied directly into Contract Documents, or as if published copies were bound herein.
- H. Where compliance with two (2) or more industry standards, contract requirements, or sets of requirements is specified, and overlapping of those different standards or requirements establishes different or conflicting minimums or levels of quality, then the most stringent requirements, which are generally recognized to be also the most costly, is intended and will be enforced, unless specifically detailed language written into the Contract Documents clearly indicates that a less stringent requirement is to be fulfilled. Refer apparently equal but different requirements, and uncertainties as to which level of quality is more stringent, to Architect for decision before proceeding.
- I. Reference standards referenced directly in Contract Documents or by governing regulations have precedence over non-reference standards which are recognized in

industry for applicability of work.

- J. Contractor's bid is based on the complete set of Contract Documents including documents not specifically issued as part of the bid pack but referenced in same.

6. SCOPE OF WORK/GENERAL INFORMATION

- A. A Scope of Work for each contract to be awarded on the project follows in this section. When a Contract has been awarded to a Contractor, the successful Contractor will be listed after the title of the Contract. When no Contract has yet been awarded, no Contractor's name will be listed. Previous Scopes of Work include addendum changes.
- B. Contractor is responsible for performing the work listed in the Summary of Work for his contract. Contractor is also responsible for knowing the work that has been assigned to preceding contracts. No additional compensation or extension of time will be allowed a Contractor due to his ignorance of the work assigned to his Contract or to other contracts which may affect his work. The Contractor is responsible, however, for all items which are covered in the Specifications and Drawings relating to their Contract if not specifically mentioned in the Summary of Work.
- C. The Construction Manager will provide on-site a source for temporary electric, temporary water and portable sanitation facilities only. It is each Contractor's responsibility to make the necessary connections, including all material for temporary electric and water. Please note that utility charges for office trailers will be the responsibility of the individual Contractors.
- D. A dumpster will be provided on site for free use by Contractors to dispose of non-hazardous, common, work-related refuse. Clean-up is the responsibility of each Contractor. Clean up shall be performed on a daily basis. Contractors not complying will be advised in writing and back charged for all costs associated with the cleanup of their work.
- E. Contractors are reminded that there are limited storage areas available on site. Off-site storage will be the responsibility of each individual Contractor.
- F. Office trailer permits off site will be the responsibility of each individual Contractor. On site Contractor's field offices, one (1) per Contractor, if required, will be located as directed by the Construction Manager.
- G. Contractor will be prepared to discuss and submit a detailed project schedule seven (7) days after receipt of Notice to Proceed and to begin its submittal process. The Project Schedule is an integral part of this contract. Certain construction sequences and priorities must take place in order to meet the target dates. Concentrated work periods will occur and each Contractor is responsible to staff the project as required by the current Construction Schedule or as directed by the Construction Manager. Contractor will cooperate with the Construction Manager in planning and meeting the required sequences of work and Project Schedule as periodically updated by the Construction

Manager.

- H. All bids must include insurance limits in accordance with Article 11 of the Section 007300 SUPPLEMENTARY CONDITIONS.
- I. Hoisting, scaffolding and material handling is the responsibility of each Contractor, unless otherwise noted.
- J. Contractor will be responsible for layout of its own work. The Construction Manager will provide benchmark and layout of the building line.
- K. Contractor will be responsible to keep clean public roadways soiled by construction traffic on a daily basis. If cleaning is not done, the Construction Manager may perform the cleaning on an overtime basis and backcharge the Contractor responsible.
- L. Contractor Scopes of Work and Schedule are interrelated. Familiarity with each is required.
- M. The Construction Manager will provide testing services for soil, concrete and steel. Other testing as required by the Contract Documents will be in accordance with the technical specifications and/or the individual scope of work. Refer to Specification Section 004500 - QUALITY CONTROL.
- N. Safety is the responsibility of each individual Contractor. The project will be governed under the guidelines of OSHA.
- O. Inter-Contractor shop drawing distribution will be performed by the Construction Manager. Contractor is individually responsible for either coordinating his work with these distributed drawings or notifying the Construction Manager, in writing, of any discrepancies.
- P. Coordination with other trades will be required. The Contractor will be required to attend periodic coordination meetings with other trades where requirements, conflicts and coordination issues will be discussed and resolved. Attendance when requested will be mandatory. If inter-Contractor coordination is not satisfactorily performed, the conflicting Contractors shall mutually share the cost to relocate and/or reinstall their work.
- Q. Contractor shall submit a schedule of values to the Construction Manager prior to the submission of their first invoice for approval through Building Blok.
- R. Contractor is expected to review and coordinate its Work with the complete set of Contract Documents, including all items noted as by his trade whether or not shown on that particular set of drawings. Documents are available at the site for review.
- S. Contractor is responsible for obtaining all necessary permits required for his work, including street permits. Unless otherwise noted, building permit shall be secured by the

- Construction Manager. Any subcontractor who will be restricting access to street, right of way or adjacent property must notify the Construction Manager 48 hours in advance.
- T. Contractor's License: Submit a copy of all business licenses required by local and state agencies.
- U. Contractor shall absorb, without additional compensation, any and all costs of working beyond normal hours to maintain job progress in accordance with the current construction schedule.
- V. No asbestos or PCB's in or on any material or equipment will be accepted or allowed on this project. All hazardous materials will be treated in accordance with all State and Federal regulations.
- W. Daily cleanup of the work is the responsibility of each individual Contractor which includes broom cleaning of their debris as required. Contractor will be individually back charged by the Construction Manager for clean up not satisfactorily performed by the Contractor.
- X. In the event asbestos is uncovered, the Contractor shall notify the Construction Manager of the areas requiring removal of asbestos. The Construction Manager shall then coordinate the removal with the Owner.
- Y. This project is to be constructed adjacent to existing buildings. Contractor shall exercise all due precautions to minimize noise, air pollution and any other construction hazards which in any way would cause discomfort or danger to the occupants of the existing building in the area.
- Z. The Safety Cable System shall not be altered or removed without a written request submitted to the Project Manager with a copy to the Field Manager. It shall be the responsibility of each and every Contractor that is removing or altering the Safety Cable System to maintain the fall protection safety provided by the safety cable and not leave the area unprotected. Each and every Contractor shall be responsible to re-install the Safety Cable System immediately after work is completed. Each and every Contractor shall be responsible to re-install the Safety Cable System in accordance to OSHA standards.
- AA. Normal work hours for this project are from 7:00 a.m. to 3:30 p.m. Any work to be performed outside of these hours must receive prior approval from the Construction Manager. Requests to work beyond normal work hours shall be submitted at least 48 hours prior.
- AB. Contractor is responsible for having a competent project superintendent/foreman on-site during all work performed under its contract.
- AC. In the event the Contractor has non-English speaking employees or subcontractors on the project, they shall have a superintendent or foreman on site, at all times, who speaks

English and can communicate with Contractor's employees. Should the Contractor fail to meet this requirement, at any time, Construction Manager may direct all Work to stop until the proper supervision is on site. The Contractor will be responsible for maintaining the project work schedule and make up at its own expense, any delay to the Schedule resulting from the work stoppage.

- AD. **Punch List Procedures:** Contractor shall be given a copy of the punch list with his appropriate work identified. Contractor shall have nine (9) calendar work days to complete its punch list work. On the 10th day or as determined by the Construction Manager, the Construction Manager shall employ other contractors, as required, to complete any incomplete punch list work and retain from the appropriate Contractors retainage all costs incurred.
- AE. Contractor shall provide the necessary safety barricades and railings required to complete their work and comply with all OSHA, local code and contract specifications.
- AF. **Prohibition of Using Photographs on EDiS Projects:** The Contractor and all associated subcontractors agrees to not issue any news release or advertising pertaining to the Work or the Project, including references to the Project on the Contractor's/subcontractor website or other social media outlets, without obtaining EDiS' prior written approval, in each instance. The Contractor, for itself, its employees, vendors and subcontractors, agrees to not use the name of the Owner, the Project, EDiS or any photographs, videos, or other images of the Project in connection with any of Contractor's business promotion activities, advertising, website, social media outlets, or operations, without EDiS' prior written approval in each instance.

CONTRACT NO. B-01 Demolition Above Grade/Removal

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 0	Procurement and Contract Requirements
Division 1	General Requirements
Division 31	Earthwork

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide all labor, material, trucking, equipment, **dumpsters/disposal**, hoisting, power, temporary facilities, permit fees, supervision, layout, maintenance of traffic/traffic control, clean up, etc. for the complete performance of all demolition work as indicated for contract B-01 and included within the scope and specifications. This contractor is responsible for all the demolition notes detailed on drawings the contract documents. Coordination of onsite utilities and disconnecting/capping of water, irrigation, electric and other identified utilities is the responsibility of this contractor.
2. **This contractor shall supply all power and water required to perform the scope of their contract work.**
3. The contractor shall fully acquaint and familiarize himself with the conditions as they exist and the character of the operations to be carried out under the proposed Contract, and make such investigation as he may see fit so that he shall fully understand the facilities, physical conditions and restrictions affecting the work under the Contract. Claims for additional compensation and/or extensions of time because of Contractor's failure to familiarize himself with all conditions which might affect the work shall not be allowed.
4. Provide demolition work as defined in the contract documents and identified to be provided by this Contract B-01. Reference **Attachment "A"** drawings provided in bid documents.
5. Work related to Phase 1 and Phase 1A are to be included in this contract scope.
6. Demolish all structures and buildings and their appertains construction to the current grade elevation. This contract include only above grade demolition. Below grade piping, conduits, footings, slabs, track etc. to remain.
7. This contract includes removal of all fencing, backstops, wire cages etc. including the concrete supports for the post. Complete removal and disposal. **All holes in the ground from the post/concrete removal shall be filled with soil and hand tamped for compaction and safety requirements. If off site soils are required they will be provided by this contractor.**
8. **This Contractor to remove the existing scoreboard down to grade, and remove all materials from site. Contract B-02 will remove the UG foundations and utilities.**

9. Before ANY excavation work is to commence, the Contractor/Excavator shall contact the utility companies or utility owners and advise them of the proposed work and ask them to mark the location of the underground utility installations. This notification shall be done within established or customary local response times. If the work is on private property and the utility company will not mark out the utilities, the Contractor/Excavator will hire a private locating service to mark the utilities. Once the utilities are located and marked, the Contractor/Excavator will excavate by hand or use a vacuum truck to expose the utilities and record the exact location and elevation of the utilities. The Contractor/Excavator must submit the Excavation Permit to EDiS Company verifying their assurance of communication with the utility companies or utility owners. The Contractor/Excavator must follow State, Local, and Federal Guidelines prior to proceeding with excavations. The Contractor/Excavator will have these marks restored as long as there is work to perform.
10. Salvage and store on-site all materials indicated to be saved by contract documents. . Materials can be removed from site for cleaning and returned to site at the contractor's expense. All salvaged materials are to be properly palletized and protected prior to being stored at the location directed by the construction manager.
11. Remove from site all combustible material including, but not limited to wood, steel, iron, structural steel, and dispose of it in a legal manner. No on site burning of material will be allowed at any time.
12. Remove from site all debris, concrete, masonry in a legal manner.
13. Items of demolition shall include, but not necessarily be limited to, complete structures, masonry walls, all equipment within defined demolition areas. Remove all existing utility (MEP) piping, conduits, cable, etc. within the building **to grade elevation.** ~~to 5' outside of building footprint.~~ Utilities outside of this 5' perimeter will be part of Contract BP-2 Sitework
14. This Contractor shall notify the Construction Manager immediately if hazardous materials (i.e. asbestos, lead, PCB's, etc.) are uncovered. At that time, all work in the affected area will be stopped until proper removal can be completed by others (i.e. hazardous material abatement contractor).
15. This contractor is to remove all fluids and refrigerants from existing mechanical, plumbing, fire protection piping, and electrical equipment prior to demolition of said equipment in accordance with all Local, State and Federal regulations. **Include testing for PCB's and the final regulated removal of fixtures, bulbs equipment etc.**
16. Temporary maintenance standby labor such as for temporary water, temporary power, temporary light and the like where required due to this Contractor's work is to be included within the Contract Price.
17. If your work impacts the local streets or roadways with debris, soil, dirt etc. you will clean immediately with proper paving cleaning equipment. (Sweeper truck)
18. This Contractor shall include in the Contract Price and unit prices, the cost of all police traffic

details required for the execution of the Work.

19. All light, power, water and any other utilities, including special provisions for hookups to same for this Contractor's operations will be provided by this Contractor within the Contract Price.
20. This Contractor shall comply with all Federal, State and local laws requiring noise control and hours which work is to be conducted. Mufflers, "whisperized" compressors, etc., shall be used as required for compliance with laws and ordinances throughout the course of the Work.
21. It is understood that all Work under this Contract shall be in strict accordance with the Building Code with the City, State and any other agency having jurisdiction. In the event of any conflict in any provisions of any regulatory agency and Contract Documents, the more stringent requirements shall apply.
22. This Contractor shall provide any and all "fire watch" personnel required due to the Contractor's cutting, burning, welding or other open flame activity.
23. This Contractor shall submit proposed methods and operations of building demolition to the Owner and CM for review prior to the start of work, including a schedule of coordinating the shut off, capping and/or continuation of utility services as required. Pre-Install meeting with EDiS required before demolition may occur.
24. Before proceeding with the demolition work, this Contractor shall obtain a permit from the City, County, or Authority Having Jurisdiction, protect all public sidewalks, streets or thoroughfares and all property adjacent to the site as required by such codes, ordinances, rules and regulations, including, but not limited to, scaffolding, sidewalk bridges, fences, barricades, aprons, warning signs and lights.
25. This Contractor shall maintain all required means of egress into and out of the project site, no roadways shall be blocked or deemed inaccessible.
26. Before demolition work is started, existing sewer, water, gas and other service lines to the existing buildings shall be located, identified and shut off, disconnected and capped or plugged in accordance with the requirements of the utility companies or other authorities having jurisdiction. **If required to disconnect and cap at the "source" is required by the governing utility company, this contractor will be responsible for the work/cost.** This Contractor shall notify all such authorities in advance and obtain their approval and cooperation in shutting off utilities. All costs associated with disconnecting utilities shall be borne by this Contractor.
27. This Contractor shall take special precautions to shore, brace, support or relocate any utility lines as may be required to satisfy all agencies having jurisdiction.
28. This Contractor shall, in cooperation with utility companies, remove or cause to be removed all light and power poles if required to be removed, at such time as the services utilizing said poles are no longer required.
29. Street openings made for the shutting off or tapping of utility lines or for any other purpose shall

- be backfilled, tamped and the surfaces restored in accordance with the requirement of applicable local codes or to match existing; whichever is greater.
30. Existing services to remain will be defined by the Owner prior to or immediately after the start of demolition work. Owner to work with this contractor to relocate identified equipment/ items per drawing notes.
 31. This Contractor shall make a careful examination of the structures to be demolished and the adjoining property and utilities which are to remain; take whatever precautions are necessary and carry on operations to prevent personal injury and any settlement, collapse, damage from falling debris or other causes to adjacent building.
 32. Any damage to public property, private property, or to utilities due to demolition operations, or the Contractor's neglect, shall be corrected by this Contractor, in a manner approved by the Owner and the parties whose property has been damaged, all at no additional cost to the Owner.
 33. Miscellaneous equipment and furnishings belonging to the Owner, if to be retained by the Owner, will be removed before the commencement of the demolition work. All other equipment or furnishings attached, remaining, in the buildings at the start of the demolition work shall become the property of this Contractor and shall be removed and disposed of by this Contractor.
 34. All equipment, materials and debris shall be regularly removed by this Contractor from the Site as work progresses in such manner as not to create a nuisance and shall be disposed of by this Contractor at his own expense, at locations to be determined by this Contractor. Permits required in connection with the disposal of the materials shall be obtained by this Contractor. Disposal shall be in accordance with all Federal, State and local laws, rules, codes, orders and regulations.
 35. Contractor shall remove debris promptly and will not burn anything on the site. Contractor shall keep required fire extinguishing equipment in serviceable condition, properly distributed so that it will be available for immediate use, particularly during any acetylene cutting operations.
 36. This Contractor shall, prior to the start of Work, provide the name and location of proposed dump site to receive the demolition debris. Dump site must be licensed and acceptable to all local government agencies having jurisdiction.
 37. This Contractor shall provide signed and stamped dump site debris tickets identifying the location, date, time, and quantity of debris deposited at the dump site.
 38. This is not a secure site. All contractors are responsible for concealing, locking and/or removing any materials daily. EDiS will not be responsible for any lost tools, materials, or equipment.
 39. Provide a \$50,000 allowance, included in base bid, to be used at the discretion of the Construction Manager.
 40. **Note: The existing school and all associated activities will be ongoing as your work is performed, caution shall be utilized by your crews at all times.**

CONTRACT B-03: SITEWORK & UTILITIES

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Section 221113	Facility Water Distribution Piping
Section 221313	Facility sanitary Sewers
Section 312000	Earth Moving
Section 321216	Asphalt Paving
Section 321313	Concrete Paving
Section 323113	Chain Link Fences and Gates
Section 334100	Storm Utility Drainage Piping
Section 107500	Flagpoles

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide sitework, storm, sanitary and water utilities, concrete and asphalt paving, striping, curbs, walks, signage, exterior concrete steps and ramps, sod and topsoil/seeding. Exterior slabs and pads shown on the structural plans will be provided by Concrete Contractor. This Contractor shall include in the Base Bid the cost of remobilization, cleaning and tack coating the asphalt base course in order to install the asphalt top coat.
2. Provide demolition work as defined on the contract documents and identified to be provided by this Contract B-02. Reference **Attachment "A"** drawings provided in bid documents. Work related to Phase 1 and Phase 1A are to be included in this contract scope.
3. **Provide identification and removal of all site utilities, electric, water, sanitary, storm and gas as required by the contract documents and in order to perform your contract scope of work.**
4. **Provide dumpsters as required for the scope of work of your contract. The CM and Owner will not provide any dumpsters for this contract.**
5. This contractor to supply their own source of power for the scope of work included in this contract. No power will be provided by the Owner or CM.
6. This Contractor shall visit the site of the proposed work, fully acquaint and familiarize themselves with the conditions as they exist and the character of the operations to be carried out under the proposed contract and make such investigation as they may see fit so that they shall fully understand the facilities, physical conditions and restrictions affecting the work under the Contract. Claims for additional compensation and/or extensions of time because of Contractor's failure to familiarize themselves with all conditions which might affect the work shall not be allowed.

7. This contract is to provide work associated with Phase 1 and Phase 1A as detailed on the contract documents.
8. Provide all site survey and layout of this contract work from a licensed surveyor. This work includes, but not limited to, accomplishing cuts and fills, locating utilities, layout of roads and walkways, and establishing site boundaries. Benchmarks and control points will be established by the CM.
9. Furnish and install all site signage. This includes all traffic, pedestrian and School related signage not mounted on buildings, including fire lane curbing paint and/or stripping and signage **as required by contract documents and applicable codes.**
10. Before ANY excavation work is to commence, the Contractor/Excavator shall contact the utility companies or utility owners and advise them of the proposed work and ask them to mark the location of the underground utility installations. This notification shall be done within established or customary local response times. If the work is on private property and the utility company will not mark out the utilities, the Contractor/Excavator will hire a private locating service to mark the utilities. The report generated from the sub-surface private locating firm shall be provided to EDiS as a project submission. Once the utilities are located and marked, the Contractor/Excavator will excavate by hand or use a vacuum truck to expose the utilities and record the exact location and elevation of the utilities. The Contractor/Excavator must submit the Excavation Permit to EDiS Company verifying their assurance of communication with the utility companies or utility owners. The Contractor/Excavator must follow State, Local, and Federal Guidelines prior to proceeding with excavations. The Contractor/Excavator will have these marks restored as long as there is work to perform. Once the Contractor has installed new utilities, they will provide to EDiS Company an as-built drawing, within 7 days, showing the exact location and elevation of the utilities. The installing Contractor will be responsible for locating and marking these utilities for other contractors that may have work in the same area.
11. Provide all required water service piping to include service provider approved pit, valves, meter, back flow preventer, etc. Also include wet tap tie in at existing service main.
12. Provide all sanitary and storm sewer work, including relocation of existing lines, man holes and structures as necessary. Include all required inspections as required by local code authorities. Include all permits necessary for your work. This contractor to include a full camera/video for all sanitary and storm lines/structures for submission and review by the CM, design team and governing authorities.
13. This contract shall provide all water line connections, water meter pits "complete", water meters and all water line installation.
14. Provide fire supply piping including fire hydrants and loop. Color code fire hydrants as required by the local jurisdiction based upon water pressure. Provide fire lane striping including painting of adjacent curbs as required by local jurisdiction having authority.
15. Provide site amenities and steel pipe bollards and decorative bollards, bike racks, ~~exterior~~

- ~~basketball hoops (including associated striping)~~, flagpoles, manual and automatic gates (including associated gate hardware, **coordinate with security and access controls**). Include excavation and concrete to support these amenities as shown in the project documents and required by manufacturer's instructions.
16. Provide all flag poles, flag poles foundations, anchor bolts, excavation and grading associated with their installation.
 17. Provide all permanent fencing (chain link and ornamental) including gates and gate hardware. Provide manual swing arm gates and automatic gates and sliders as indicated in documents.
 18. Provide new chain link fence mesh at locations along Glasgow Avenue as indicated on the contract documents. This mesh to be #9 mesh with black PVC coating. Removal and disposal of old mesh shall be included as part of this contract. Include an Allowance of \$10,000 for work related to post and rail replacement as necessary. This work to be directed by the Owner and CM.
 19. Furnish and install and maintain concrete wash out areas for other subcontractors and their suppliers for project duration. Remove this item at conclusion of project and complete as indicated on finished drawings. Provide signage to identify concrete wash out areas.
 20. Furnish, install, maintain and remove sediment control system including sediment control plan. Maintain sediment control until substantial completion established by DNREC.
 21. This Contractor shall, in cooperation with utility companies, remove or cause to be removed all light and power poles if required to be removed, at such time as the services utilizing said poles are no longer required. Remove existing utilities and structures (water, storm, sewer, gas, electric etc.) from their source to 5' outside of existing building footprint. Coordinate shut-off with utility companies, cut and cap as required by governing agency. **Patch existing manholes where existing utilities are removed, in accordance with DelDOT and NCCo regulations.** Remove existing site amenities (light poles, utility poles, fencing, post and cable barriers, structures etc.) as indicated to be remove by this Contract B-02 in Attachment #1 including in the bidding documents.
 22. If required, this Contractor shall relocate power or light poles, fire hydrants, traffic signs or signals and similar utility and public service items in use and shall cooperate with all governmental agencies having jurisdiction over such items so as not to interfere with the services of such governmental agencies.
 23. Street openings made for the shutting off or tapping of utility lines or for any other purpose shall be backfilled, tamped and the surfaces restored in accordance with the requirement of applicable local codes or to match existing; whichever is greater.
 24. Utility equipment belonging to the utility companies, if to be retained by these companies, will be removed from the site by the company owning the equipment upon notification by this Contractor.
 25. Any damage to public property, private property, or to utilities due to demolition operations, or the Contractor's neglect, shall be corrected by this Contractor, in a manner approved by the Owner and the parties whose property has been damaged, all at no additional cost to the Owner.

26. All clearing, grubbing and removal of vegetation, trees, roots and stumps whether indicated on documents or not. A site visit to review existing areas within Phase 1a and Phase 1 prior to bidding is highly recommended.
27. Topsoil stripping and stockpiling on site. Respread topsoil from the established topsoil stockpiles and fertilize as specified in the civil drawings. The topsoil must be triple screened to remove all inorganic materials in excess of ¾ inches or import material certified as triple screened. Prior to seeding, this contractor is responsible to have the topsoil tested and to supply and install amenities (fertilizer, lime, etc.) as required by the test report. Provide temporary and permanent stabilization grass seeding at all areas following the completion of construction activities. This contractor is responsible for all weeding, watering, fertilization, and grass cutting to ensure 100% grass growth in the entirety of these areas until permanent certificate of occupancy is approved, **including meeting all DNREC approvals** and the areas are accepted by the Owner.
28. Contractors should carefully review the soil borings as they relate to the extent of rubble to be removed and other man made obstructions. Saw cutting and removal of sidewalks, curbs, etc. in the performance of work is this Contractor's responsibility.
29. Provide, maintain, and remove stabilized construction entrances (SCE). Furnish and install wash station, labor to wash tires, clean and drain the area as required before vehicles leave the site daily. Clean tires and tracks of all vehicles before leaving the construction site. Wash station will be utilized by other contractors and will be removed only when directed by EDiS. Furnish and install Non-freeze Hose Bib, water line, valve box & drainpipe to daylight or plug for the contractor tire wash areas, and for building construction. Provide a 1 ½" water line from existing source identified adjacent to the existing dugouts for use at tire washing station. **Provide (2) 50 heavy duty hoses and one brass nozzle for CM's use.**
30. Protect all existing trees to remain within the limits of construction.
31. All tree removal, stump removal and grubbing removal as identified on contract documents is the responsibility of this contractor, complete.
32. Provide a temporary water means for other trades to utilize. Include all costs associated with metering from local utilities as well as valves and hoses for contractors to utilize. The Construction Manager will not provide this service.
33. This contractor shall provide, maintain and ~~remove~~ **Refurbish** a temporary construction road that follows the new roadway layout on the contract documents, circling the entire building. The road shall consist of fabric, 10" of #3 stone for the length of the road and the means to compact it. This road shall be a minimum of 24' feet wide and 2800 feet long and shall be fully maintained until the permanent roadways/drives and lots are installed Contractor can utilize the temporary #3 stone as the base of the permanent road. Temporary base is to be tested, compacted, and infilled with GABC to meet DelDOT standards.
34. Provide the cost in the base bid, to provide, maintain and remove upon construction manager direction, 750 linear feet of stoned roadway from Stabilized Construction Entrances, 25'-0" wide.

- Road shall consist of fabric, 10" of #3 stone for the length of the road and the means to compact it. The location will be determined by construction manager. Include removal of temporary stone road from site upon request from construction manager. (trailer access) This work is in addition to the construction entrance identified on the contract documents.
35. Provide in base bid, the cost to provide, maintain and remove upon construction manager direction, a total of 8 temporary crane pad's: each a ~~30'x30'~~ **35'x35'** stoned area. Pads shall consist of fabric, 10" of #3 stone for the area of the pad, and the means to compact it. Include removal of temporary stone pads from site upon request from construction manager.
36. Provide in base bid, the cost to provide, maintain and remove upon construction manager direction, a temporary stone parking area that is 100' X 50'. Area shall consist of fabric, 10" of ~~#57 stone~~ **Crushed concrete or crush and run stone** for the area of the pad, and the means to compact it. Include removal of temporary stone pads from site upon request from construction manager.
37. Rough grading for area defined on site drawings for building, lawn areas, bituminous roads, parking and walkways. Preparation of subgrade for building slabs, walks and pavements.
38. Sitework contractor is to provide rough grading for area defined on site drawings for building, lawn areas, bituminous roads, parking and walkways. Preparation of subgrade for slabs, walks, and pavements. The Sitework Contractor to extend the bulk excavation 10' outside building plan in order to facilitate foundation construction and maintain safety requirements. Written acceptance of the building pad condition will be provided by the concrete contractor before foundation work proceeds. The Concrete Contractor will be responsible for laying out all concrete work as shown on the structural and architectural drawings. Once the Concrete Contractor has accepted this work it will be the responsibility of the Concrete Contractor to maintain and dewater the building pad and all excavations until the concrete work is complete and backfilled. The Concrete Contractor and Sitework Contractor are to coordinate this procedure so that there are no additional costs to the Owner for additional excavation or concrete. Spoils left after backfilling of foundations is complete are to be left outside the building perimeter by the concrete contractor and gathered by the sitework contractor and spread on site, **this includes the overage of the building pad which shall be spread on site as well.**
39. The use of this on site material shall conform with the compaction requirements as specified and identified in the Geo-Tech reports, civil drawings and specifications. The intent is to utilize the onsite materials to establish grades and construct the building pad. This contractor shall include in their proposal the import of stone dust fill equal to 10% of the overall volumes of soils available on site. This imported material shall be utilized and "mixed" with the existing soils as directed by the Geo-Technical engineer. This shall include but not be limited to, discing, machine raking etc. to allow materials to be mixed and dried sufficiently for use as stabilized subbase. If sufficient amounts of suitable fill material are not found within the limits of disturbance (LOD) the contractor shall be responsible to purchase, deliver and install off site fill materials to allow the building pad, parking areas, driveway and site grades to be achieved. It is the site work contractor's responsibility to restore all areas disturbed by harvesting operations. As Structural fill is provided for this contract it shall be utilized on the building pad area first, "only" after the building pad has been established and accepted by the CM and concrete contractor shall imported fill be used in other areas.

40. All structural soils that are to be stock pile on site shall be covered as the stockpile is being created and then kept covered as needed to insure the integrity of the materials (keep it dry)
41. Provide all concrete curbs, sidewalks, pads and ramps, including bituminous joint filler. All backfilling at concrete curbs, sidewalks, pads and ramps shall be flush with top of concrete. Include all stone bedding as detailed on the contract documents.
42. Provide curb cuts, depressions and filter strips as designated.
43. Provide all pavers and synthetic turf area as directed by the contract documents. **(include all required soil stabilization at subbase)**
44. Provide all concrete bumper blocks at parking areas.
45. Provide all bituminous paving to include but not limited to drive lanes, parking lots, bus parking, paved islands, pathways etc.
46. This contractor to include in the base bid the cost associated with installing the base course on the drive lanes and parking areas prior to the scheduled installation of the top coat. Include remobilization, cleaning, tacking etc. as necessary to prepare utilized base course for final paving top coat.
47. Provide all concrete paving as indicated on the contract documents.
48. Millings may not be used as a substitute for stone base.
49. This Contractor will provide all pavements markings, fire lane signs, and traffic signs.
50. The certified construction reviewer (CCR) will be provided by the Owner. Review controls on a weekly basis and complete repairs to stay compliant with DNREC & CCR requirements.
51. **Provide all DelDOT permits related to work for this project.**
52. Furnish, install and remove approximately 2500 linear feet of temporary construction fence required. The fence shall consist of new 6' high #9 gauge galvanized chain link fence with top rail and bottom tension wire. Provide (2) 12' wide gates. The posts shall be installed in the ground. This fence is required to be in-place for the duration of the project. Maintain this work until Substantial Completion of this project. At the end of the project remove the fence, patch and repair the finished surfaces to a like-new condition.
53. Proof rolling of limit of excavation prior to fill operations, coordinate all work with the CM and the Geo-Tech engineer assigned.
54. All utilities shall be brought to within +/- 5 feet of the building line by this Contractor. The connection and all utilities from +/- 5 feet and into the building shall be by others.

55. Backfilling as detailed below is the responsibility of this Contractor. Soil types shall be in accordance with Del Dot standard specifications.
56. Temporary maintenance standby labor such as for temporary water, temporary power, temporary light and the like where required due to this Contractor's work is to be included within the Contract Price.
57. Provide perimeter protection of all excavated areas until suitably backfilled. (rope and flags) required, "Caution" tape is not acceptable protection.
58. ASPHALT CEMENT COST ADJUSTMENT
- Payments to the Contractor shall be adjusted to reflect increase or decreases in the Delaware Posted Asphalt Cement Price when compared to the Project Asphalt Cement Base Price, as defined in these Special Provisions.
 - The Delaware Posted Asphalt Cement Price will be issued monthly by the Department and will be the industry price for Asphalt Cement, F.O.B. Philadelphia, Pennsylvania.
 - All deviations of the Delaware Posted Asphalt Cement Price from the Project Asphalt Cement Base Price are eligible for cost adjustment. No minimum increases or decreases or corresponding percentages are required to qualify for cost adjustment.
 - Actual quantity of asphalt cement qualifying for any Asphalt Cement Cost Adjustment will be computed on the basis of weight tickets and asphalt percentage from the approved job mix formula.
 - For Recycled Hot-Mix the asphalt percentage eligible for cost adjustment shall be only the new asphalt cement added to the mix.
 - The Asphalt cement cost adjustment will be calculated on grade PG 64-22 asphalt regardless of the actual grade of asphalt used. The Project Asphalt Cement Base Price for the project will be based on the August 1st price posted on DelDOT's website.
 - If the Contractor exceeds the authorized allotted completion time, the price of asphalt cement on the last authorized allotted work day, shall be the prices used for cost adjustment. However, if the industry posted price for asphalt cement goes down, the asphalt cement cost shall be adjusted downward accordingly.
59. Provide street cleaning of mud, etc. on a daily basis, regardless of whether or not crew is active onsite for duration of project.
60. Include all costs for temporary barricades, arrows, pedestrian protection, flagmen, etc. required to complete the work. (Construction entrance flagging will be provided Contract B-03 "Flagger Protection")
61. Base bid shall include all standard dewatering measures, utilizing trenches, crocks, stone and portable pumping measures. This contractor to provide these measures as required to perform their work. Well pointing if necessary, will be handled as a negotiated cost by the Owner.
62. Furnish and install (10) dewatering crocks within the building pad as directed by construction manager. Dewatering crocks shall consist of 2' diameter, 3' long perforated pipe with a #3 stone base. This contractor shall remove and fill the dewatering crocks when directed by construction manager.

63. This Contractor shall provide and maintain all temporary access roads as detailed in Contract Documents, until completion of project.
64. Provide all plant material and all associated work including, but not limited to, staking, watering, weeding, fertilizing, etc.
65. Planting soil mix in beds and topsoil to be provided by the Sitework Contractor. Provide all additional soil mix required to set plant materials and final grading.
66. Provide filter fabric, weed, check and mulch at all planting areas.
67. Provide sod at all grass areas surrounding the building and adjacent driveway islands. Include maintenance, care, watering and replacement as necessary up to the owners occupancy and ~~ten~~ **then** an additional 6 months of this service shall be provided.
68. Provide specified warranties, general 2 year and all extended warranties.
69. Provide all dewatering of excavations until final acceptance.
70. Provide temporary shoring to support and maintain adjacencies and excavations per OSHA standards.
71. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
72. Provide As-Built Drawings both in electronic format and a hard copy
73. Provide pricing for all alternates as described in Section 012300-Alternates if identified.
Alternate for 110 parking space parking lots area, including all striping, signs etc. will be bid as an Add Alternate.
74. Provide a \$150,000 allowance to be used at the discretion of the Owner/Construction Manager.
75. Maintain and remove temporary site fencing, temporary roads and walks as shown on the site plan and described below. Include in this contract the installation and removal of 4 double 20' gate assemblies throughout the project. This is in addition to the double gate at the entrance of the site.
76. Furnish and install wash station, labor to wash tires, clean and drain the area as required before vehicles leave the site daily. Clean tires and tracks of all vehicles before leaving the construction site. Wash station will be utilized by other contractors and will be removed only when directed by EDiS. Furnish and install Non-freeze Hose Bib, water line, valve box & drainpipe to daylight

- or plug for the contractor tire wash areas, and for building construction. (for 1 1/2 hose connection for tire wash). **Supply (2) 50' heavy duty hoses and one brass nozzle to CM.**
77. Provide perimeter stormwater drains at all buildings (including within 5' of the building perimeter). This contractor to provide the final connections. Provide downspout adaptors and coordinate with roofer for the correct downspout size. Provide splash block where required.
78. This contract shall provide and include all work required, including utilities, grading, sidewalks, topsoil 4" and seeding of the area identified on sheet C111as "Future Expansion" (Alt. #1)
79. Provide work associate with providing and installing the Athletic Turf Finish as shown on sheet C124 and details provided on sheet C-500.(Turf Detail)
80. This contractor shall provide all Bio-Retention areas as indicated on the contract documents complete. Including all planting's, **Bio-Media materials, etc.** and maintenance of planting as identified. **This contractor shall provide the required As-Built for submission to DNREC within 1 week of completion of this work.**
81. This contract shall provide all grease interceptors and oil interceptors, including piping, connections and installation to provide a complete and operational system.
82. This contract shall provide the concrete "mow" strip adjacent to the building perimeter. This shall be included at all exterior wall areas. Detail provided on sheet C-500
83. This contract shall provide all dumpster pads "complete" Detail shown o sheet C-501

CONTRACT NO. B-03 FLAGGER ENTRANCE PROTECTION

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 0 Procurement and Contract Requirements

Division 1 General Requirements

This contract also includes, but is not necessarily limited to, all labor, materials, and equipment for the following

1. This contractor to provide a traffic Maintenance/Flagger individual **or individuals as required** to manage the entrance and exit traffic at the New Hodgson HS project as directed by the Construction Manager.
2. This contractor shall supply the flagger with all necessary flagger materials, pedestrian and vehicular signage/placards and required PPE as required to perform the task of maintaining vehicular and pedestrian access to the project sight or any area withing the site directed by the CM.
3. The contract shall include a total of 3,000-man hours of flagger coverage, to be scheduled by the Construction Manager. The work will start 1Oct2023 and the duration of the coverage could extend out to 31July25. This work may be scheduled anytime within the scheduled date range without penalty or additional costs to NCCVT or the CM.
4. A unit cost will be provided by this contractor that will pertain to any hours that may be deducted or added to this contract. (see Unit Cost section)
5. This individual must be trained and certified to perform the duties of a traffic maintenance flagger. This individual must also be OSHA 40 Certified.
6. All flaggers that will be utilized for this contract shall be trained and certified by one of the following recognized flagger certification programs.
 - American Traffic Safety Services Association (ATSSA) Flagger Certification Program – In classroom Training.
 - American Traffic Safety Services Association (ATSSA) Flagger Certification Program – Online Flagger Training Program.
 - OnlineFlagger.com – Online ATSSA Flagger Training Program.
 - Laborer’s International Union of North America (LIUNA) Work Zone Safety Program, provided by the Construction Craft Laborers Training and Apprenticeship Fund of New Jersey and Delaware – includes flagger certification and Traffic Control Supervisor certification.
 - Delaware Safety Council Flagger Certification program.
7. Provide in the base bid \$20,000 allowance for work as directed by the Construction Manager.

END OF SECTION

SECTION 31 20 00

EARTH MOVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

1. Preparing subgrades for all aspects of construction shown on the plans.
2. Excavating and backfilling for buildings and structures.
3. Drainage course for concrete slabs-on-grade.
4. Subbase course for concrete walks pavements.
5. Subbase course and base course for asphalt paving.
6. Subsurface drainage backfill for walls and trenches.
7. Excavating and backfilling trenches for utilities and pits for buried utility structures.
8. Excavating well hole to accommodate elevator-cylinder assembly.

B. Related Sections:

1. Division 01 Section "Construction Progress Documentation" for recording pre-excavation and earth moving progress.
2. Division 01 Section "Temporary Facilities and Controls" for temporary controls, utilities, and support facilities; also for temporary site fencing if not in another Section.
3. Division 03 Section "Cast-in-Place Concrete" for granular course if placed over vapor retarder and beneath the slab-on-grade.
4. Division 14 Section "Hydraulic Elevators" and "Hydraulic Freight Elevators" for excavating well hole to accommodate elevator-cylinder assembly.
5. Divisions 21, 22, 23, 26, 27, 28, and 33 Sections for installing underground mechanical and electrical utilities and buried mechanical and electrical structures.
6. Division 31 Section "Site Clearing" for site stripping, grubbing, stripping and stockpiling topsoil, and removal of above- and below-grade improvements and utilities.
7. Division 31 Section "Dewatering" for lowering and disposing of ground water during construction.

8. Division 31 Section "Excavation Support and Protection" for shoring, bracing, and sheet piling of excavations.
 9. Division 31 Section "Drilled Concrete Piers and Shafts" for excavation of shafts and disposal of surplus excavated material.
 10. Division 32 Section "Turf and Grasses" for finish grading in turf and grass areas, including preparing and placing planting soil for turf areas.
 11. Division 32 Section "Plants" for finish grading in planting areas and tree and shrub pit excavation and planting.
 12. Division 33 Section "Sub-drainage".
- C. Delaware Department of Transportation (DelDOT) Standard Specifications.
- D. Delaware Department of Natural Resources and Environmental Control (DNREC) Sediment and Erosion Control Handbook.

1.3 DEFINITIONS

- A. Backfill: Soil material or controlled low-strength material used to fill an excavation.
1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
 2. Final Backfill: Backfill placed over initial backfill to fill a trench.
- B. Base Course: Aggregate layer placed between the subbase course and hot-mix asphalt paving.
- C. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe.
- D. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.
- E. Drainage Course: Aggregate layer supporting the slab-on-grade that also minimizes upward capillary flow of pore water.
- F. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.
- G. Fill: Soil materials used to raise existing grades.

1.4 SUBMITTALS

- A. Product Data: For each type of the following manufactured products required:
1. Geotextiles.
 2. Select Borrow.
 3. Base Course aggregate
 4. Drainage Course aggregate.

1.5 QUALITY ASSURANCE

- A. Geotechnical Testing Agency Qualifications: Qualified according to ASTM E 329 and ASTM D 3740 for testing indicated.
- B. Pre-excavation Conference: Conduct conference at Project site.

1.6 PROJECT CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during earth moving operations.
 - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
 - 2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.
- B. Utility Locator Service: Notify Miss Utility (1-800-282-8555) for area where Project is located before beginning earth moving operations.
- C. Do not commence earth moving operations until temporary erosion- and sedimentation-control measures, specified in Division 31 Section "Site Clearing are in place.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

- 1. All on-site borrow, subbase material, base course and drainage course shall be as shown on the plans and in accordance with the DelDOT Standard Specifications. Select borrow for structural fill shall meet USCS designation CL, ML, SM, SC, GP-GM, GM or GW-GM as stated in the Geotechnical Report and approved by Geotechnical Engineer prior to use.

2.2 GEOTEXTILES

- A. Subsurface Drainage Geotextile: Nonwoven needle-punched geotextile, manufactured for subsurface drainage applications, made from polyolefins or polyesters meeting Mirafi 140N or approved equal.
- B. Separation Geotextile: Woven geotextile fabric, manufactured for separation applications, made from polyolefins or polyesters meeting Mirafi 600X or approved equal.

2.3 ACCESSORIES

- A. Warning Tape: Acid- and alkali-resistant, polyethylene film warning tape manufactured for marking and identifying underground utilities, 6 inches wide and 4 mils thick, continuously inscribed with a description of the utility; colored as follows:
1. Red: Electric.
 2. Yellow: Gas, oil, steam, and dangerous materials.
 3. Orange: Telephone and other communications.
 4. Blue: Water systems.
 5. Green: Sewer systems.
 6. Green: Sewer systems.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth moving operations.
- B. Protect and maintain erosion and sedimentation controls during earth moving operations.
- C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.

3.2 DEWATERING

- A. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.
- B. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.
1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. Do not use excavated trenches as temporary drainage ditches.

3.3 EXPLOSIVES

- A. Explosives: Do not use explosives.

3.4 EXCAVATION, GENERAL

- A. All excavation shall be as shown on the plans and in accordance with the DelDOT Standard Specifications and the DNREC Sediment and Erosion Control Handbook.

3.5 EXCAVATION FOR STRUCTURES

- A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 1 inch. If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.
 - 1. Excavations for Footings and Foundations: Do not disturb bottom of excavation. Excavate by hand to final grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.
- B. Excavations at Edges of Tree- and Plant-Protection Zones:
 - 1. Excavate by hand to indicated lines, cross sections, elevations, and subgrades. Use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
 - 2. Cut and protect roots according to requirements in Division 01 Section "Temporary Tree and Plant Protection."

3.6 EXCAVATION FOR WALKS AND PAVEMENTS

- A. Excavate surfaces under walks and pavements to indicated lines, cross sections, elevations, and subgrades.

3.7 EXCAVATION FOR UTILITY TRENCHES

- A. Excavate trenches to indicated gradients, lines, depths, and elevations.
 - 1. Beyond building perimeter, excavate trenches to allow installation of top of pipe below frost line.
- B. Excavate trenches to uniform widths to provide the following clearance on each side of pipe or conduit. Excavate trench walls vertically from trench bottom to 12 inches higher than top of pipe or conduit unless otherwise indicated.
 - 1. Clearance: 12 inches each side of pipe or conduit.
- C. Trench Bottoms: Excavate and shape trench bottoms to provide uniform bearing and support of pipes and conduit. Shape subgrade to provide continuous support for bells,

joints, and barrels of pipes and for joints, fittings, and bodies of conduits. Remove projecting stones and sharp objects along trench subgrade.

3.8 SUBGRADE INSPECTION

- A. Notify Architect/Engineer/Construction Manager when excavations have reached required subgrade.
- B. If Architect/Engineer/Construction Manager determines that unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed.
- C. Proof-roll subgrade below the building slabs and pavements with a pneumatic-tired and loaded 10-wheel, tandem-axle dump truck weighing not less than 15 tons to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
 - 1. Completely proof-roll subgrade in one direction. Limit vehicle speed to 3 mph.
 - 2. Excavate soft spots, unsatisfactory soils, and areas of excessive pumping or rutting, as determined by Architect, and replace with compacted backfill or fill as directed.
- D. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Architect, without additional compensation.

3.9 UNAUTHORIZED EXCAVATION

- A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill, with 28-day compressive strength of 2500 psi may be used when approved by Architect.
 - 1. Fill unauthorized excavations under other construction, pipe, or conduit as directed by Architect.

3.10 STORAGE OF SOIL MATERIALS

- A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
 - 1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

3.11 BACKFILL

- A. Place and compact backfill in excavations promptly as shown on the plans and as follows:
 - 1. Fill below foundations, floor slabs and within wall backfill or slopes greater than 5H:1V to be compacted to 95% ASTM 698 with moisture at $3\pm$ of optimum.
 - 2. Top 1-foot of pavement subgrade to be compacted to 95% ASTM 698 with moisture at $3\pm$ of optimum.
 - 3. Fill below 1-foot of pavement subgrade to be compacted to 95% ASTM 698 with moisture at $3\pm$ of optimum.

3.12 UTILITY TRENCH BACKFILL

- A. Place backfill on subgrades free of mud, frost, snow, or ice.
- B. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits.
- C. Trenches under Footings: Backfill trenches excavated under footings and within 18 inches of bottom of footings with satisfactory soil; fill with concrete to elevation of bottom of footings. Concrete is specified in Division 03 Section Cast-in-Place Concrete.
- D. Backfill voids with satisfactory soil while removing shoring and bracing.
- E. Place and compact final backfill of satisfactory soil to final subgrade elevation.

3.13 SOIL FILL

- A. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.
- B. Place and compact fill material in layers to required elevations as follows:
 - 1. Under grass and planted areas, use satisfactory existing soil material.
 - 2. Under walks and pavements, use satisfactory existing soil material.
 - 3. Under steps and ramps, use select borrow or satisfactory material approved by Geotechnical Engineer.
 - 4. Under building slabs, use select borrow or satisfactory existing soil material approved by Geotechnical Engineer.
 - 5. Under footings and foundations, use select borrow or satisfactory existing soil material approved by Geotechnical Engineer.
- C. Place soil fill on subgrades free of mud, frost, snow, or ice.

3.14 SOIL MOISTURE CONTROL

- A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 3 percent of optimum moisture content.
 - 1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
 - 2. Remove and replace, or scarify and air dry, otherwise satisfactory soil material that exceeds optimum moisture content by 3 percent and is too wet to compact to specified dry unit weight.

3.15 COMPACTION OF SOIL BACKFILLS AND FILLS

- A. Place and compact fill as shown on the plans and in accordance with the DelDOT Standard Specifications.

3.16 GRADING

- A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
 - 1. Provide a smooth transition between adjacent existing grades and new grades.
 - 2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.

3.17 SUBSURFACE DRAINAGE

- A. Sub-drainage Pipe: Specified in Division 33 Section "Sub-drainage."
- B. Drainage Backfill: Place and compact filter material over subsurface drain, in width indicated, to within 12 inches of final subgrade.

3.18 SUBBASE AND BASE COURSES UNDER PAVEMENTS AND WALKS

- A. Place as shown on the plans and in accordance with the DelDOT Standard Specifications.

3.19 DRAINAGE COURSE UNDER CONCRETE SLABS-ON-GRADE

- A. Place drainage course on subgrades free of mud, frost, snow, or ice.

3.20 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified geotechnical engineering testing agency to perform tests and inspections.
- B. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.
- C. Footing Subgrade: At footing subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing subgrades may be based on a visual comparison of subgrade with tested subgrade when approved by Architect.
- D. Testing agency will test compaction of soils in place according to ASTM D 1556, ASTM D 2167, ASTM D 2922, and ASTM D 2937, as applicable. Tests will be performed at the following locations and frequencies:
 - 1. Paved and Building Slab Areas: At subgrade and at each compacted fill and backfill layer, at least one test for every 2000 sq. ft or less of paved area or building slab, but in no case fewer than three tests.
 - 2. Trench Backfill: At each compacted initial and final backfill layer, at least one test for every 150 feet or less of trench length, but no fewer than two tests.
- E. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; re-compact and retest until specified compaction is obtained.

3.21 PROTECTION

- A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.
- B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.
 - 1. Scarify or remove and replace soil material to depth as directed by Architect; reshape and re-compact.
- C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.
 - 1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.22 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.
- B. Transport surplus satisfactory soil to designated storage areas on Owner's property. Stockpile or spread soil as directed by Architect.
 - 1. Remove waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

END OF SECTION 31 20 00