### **BID ADDENDUM NO. 1**

May 19, 2025 Town of Bath Lake Salubria Sewer Dist. No. 8 0392-030

The following Addendum items shall be considered as part of the contract documents prepared by HUNT ENGINEERS, ARCHITECTS, LAND SURVEYORS & LANDSCAPE ARCHITECT, DPC. Bid Document date of October 2024, Issued for Bid May 2025.

### **<u>Clarifications issued by this Addendum:</u>**

- 1. All manhole surfaces, including pump station wet wells, air relief valve/cleanout manholes, shall have two coats of bitumastic coating as specified on C4.0 Detail 9
- 2. Pay Item clarification:
  - PI 5b is the suitable fill required for rock removal and unsuitable soil removal.
  - PI 16b is the suitable fill needed to replace excavated material that is unsuitable to be used for general construction, e.g. manhole and pipe placement backfill.

### Project Manual Sections issued by this Addendum:

- 00 41 13 Bid Form
- 00 52 00 Agreement between Owner and Contractor
- 01 22 00a Combined Pay Items
- 26 28 16\_13 Enclosed Circuit Breakers
- 32 11 23 Aggregate Base Courses

### Drawings issued by this Addendum:

AD1-C4.0 – Site Detail AD1-C4.1 – Site Detail AD1-C7.1 – E&S Details

AD1-C 7.2 – E&S Details

### **Revisions to Project Manual issued by this Addendum:**

### ITEM AD1-1 Refer to 00 41 13 - BID FORM

DELETE Specification Section 00 41 13 Bid Form - in its entirety.ADD Specification Section 00 41 13 Bid Form - issued by this addendum.

### ITEM AD1-2 Refer to 00 52 00 - AGREEMENT

**DELETE**Specification Section 00 52 00 Agreement – in its entirety.**ADD**Specification Section 00 52 00 Agreement – issued by this addendum

251 NEW KARNER ROAD ALBANY, NY 12205 TELE: 607-798-8081

### ITEM AD1-3 Refer to 01 22 00a - COMBINED PAY ITEMS

DELETE Specification Section 01 22 00a Combined Pay Items – in its entirety.ADD Specification Section 01 22 00a Combined Pay Items – issued by this addendum.

### ITEM AD1-4 Refer to 26 28 16\_13 - ENCLOSED CIRCUIT BREAKERS

**ADD** Specification Section 26 28 16\_13 - Enclosed Circuit Breakers issued by this addendum.

### ITEM AD1-5 Refer to Section 32 11 23 - AGGREGATE BASE COURSES

ADD Specification Section 32 11 23 – Aggregate Base Courses issued by this addendum.

### **Revisions to Drawings issued by this Addendum:**

ITEM AD1-6 Refer to C4.0 – SITE DETAILS

**DELETE** C4.0 – Site Details - in its entirety.

**ADD** C4.0 – Site Details - issued by this addendum.

### ITEM AD1-7 Refer to C4.1 – SITE DETAILS

**DELETE** C4.1 – Site Details - in its entirety.

- **ADD** C4.1 Site Details issued by this addendum.
- ITEM AD1-8 Refer to C7.1 E&S DETAILS

DELETE C7.1 – E&S Details - in its entirety.ADD C7.1 – E&S Details - issued by this addendum.

### ITEM AD1-9 Refer to C7.2 – E&S DETAILS

**DELETE** C7.2 – E&S Details - in its entirety.

**ADD** C7.2 – E&S Details - issued by this addendum.

End of Addendum #1

### **BID FORM FOR CONSTRUCTION CONTRACT**

The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

### ARTICLE 1—OWNER AND BIDDER

1.01 This Bid is submitted to:

Town of Bath 110 Liberty Street Suite 107 Bath, NY 14810

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

### **ARTICLE 2—ATTACHMENTS TO THIS BID**

- 2.01 The following documents are submitted with and made a condition of this Bid:
  - A. Required Bid security;
  - B. Copy of NYSDOL Certificate of Registration
  - C. If Bid amount exceeds \$100,000, signed RD Instruction 1940-Q Exhibit A-1, Certification for Contracts, Grants, and Loans."
  - D. All other Certifications and Exhibits contained and required per the Division 00 Specifications of the Contract Documents.

### ARTICLE 3—BASIS OF BID—UNIT PRICES

### 3.01 Unit Price Bids

A. Bidder will perform the following Work at the indicated unit prices:

Item No.	Description	Estimated Quantity	Unit	Bid Unit Price	Bid Amount
1	Mobilization	1	LS		\$
2	Maintenance & Protection of Traffic	1	LS		\$
3	Erosion & Sediment Control	1	LS		\$
4a	Clearing & Grubbing trees	1	LS		\$
4b	Temporary relocation of existing sheds, or other structures	1	LS		\$
5a	Rock Removal	50	CY		\$
5b	Unsuitable Backfill Material	300	CY		\$
6a	4ft Dia Precast Concrete Manhole (w Frame and Cover)	30	EA		\$
6b	5ft Dia Precast Concrete Manhole (w Frame and Cover)	4	EA		\$
6с	5ft Dia Precast Concrete Manhole (w Combination Air relief, Cleanouts-2, Frame and Cover)	3	EA		\$
6d	5ft Dia Precast Concrete Manhole (w Combination Air relief, Cleanouts-1, Frame and Cover)	2	EA		\$
бе	No Manhole 4-inch SCH PVC Cleanouts (w Screw Caps and Cast-Iron cover)	73	EA		\$
7a	4-inch Dia SDR 35 PVC Sewer Piping	1,300	LF		\$
7b	6-inch Dia SDR 35 PVC Sewer	350	LF		\$
7c	8-inch Dia SDR 35 PVC Sewer Piping	7,200	LF		\$
8a	1.25-inch Dia PE4710 HDPE Forcemain	4,500	LF		\$
8b	2-inch Dia PE4710 HDPE Forcemain	1,200	LF		\$
8c	3-inch Dia PE4710 HDPE Forcemain	1,400	LF		\$
8d	4-inch Dia PE4710 HDPE Forcemain	9,100	LF		\$
8e	1.25 Directional Drill HDPE	550	LF		\$
8f	4-inch Directional Drill HDPE	720	LF		\$
8g	6-inch Directional Drill HDPE	250	LF		\$
9	Railroad Crossing (18" Jack & Bore)	1	LS		\$

EJCDC<sup>®</sup> C-410, Bid Form for Construction Contract.

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10a	Simplex Grinder Pump Station	48	EA		\$
10b	Duplex Grinder Pump Station	2	EA		\$
Item No.	Description	Estimated Quantity	Unit	Bid Unit Price	Bid Amount
10c	Complete Simplex Pump Stations for Inventory	5	EA		\$
10d	Duplex Pump Station for Inventory.	1	EA		\$
10e	Pump for Inventory	3	EA		
11	NYS Route Crossing (12" Jack & Bore)	2	LS		\$
12a	P1-E. Willaim Street Ext.	1	LS		\$
12b	P2- NYS Route 415	1	LS		\$
12c	P3- NYS Route 415	1	LS		\$
12d	P4-E. Washington Street Ext.	1	LS		\$
13	Electrical Equipment Service Wire & Conduit	1	LS		\$
14	Sensitive Area Pneumatic Excavation	3	EA		\$
15a	Asphalt Restoration (Local Roadway/Trench Repair)	3,100	SY		\$
15b	Asphalt Restoration (Driveway)	1,400	SY		\$
16a	Gravel Drive Restoration	270	CY		\$
16b	Suitable Backfill Material	500	CY		\$
16c	Concrete Drives/Sidewalks	140	SY		
17	Lawn Restoration	28,000	SY		\$
18	Landscaping Restoration	1	LS		\$
19	Pump & Demolition of Existing Septic Tanks	50	EA		\$
20	Flowable Fill	50	CY		\$
21	Dewatering	1	LS	_	\$
22	Connecting to Existing	10	EA		\$
Total of All Unit Price Bid Items				Total:	Ś

- B. Bidder acknowledges that:
  - 1. each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and
  - 2. estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Work will be based on actual quantities, determined as provided in the Contract Documents.

### ARTICLE 4—TIME OF COMPLETION

- 4.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 4.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

# ARTICLE 5—BIDDER'S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

- 5.01 Bid Acceptance Period
  - A. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.
- 5.02 Instructions to Bidders
  - A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

### 5.03 Receipt of Addenda

A. Bidder hereby acknowledges receipt of the following Addenda:

Addendum Number	Addendum Date

### ARTICLE 6—BIDDER'S REPRESENTATIONS AND CERTIFICATIONS

- 6.01 *Bidder's Representations* 
  - A. In submitting this Bid, Bidder represents the following:
    - 1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
    - 2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
    - 3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work. including all Domestic Preference requirements.
    - 4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.
    - 5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.
    - 6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder's (Contractor's) safety precautions and programs.

- 7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
- 8. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- 9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
- 10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
- 11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

### 6.02 *Bidder's Certifications*

- A. The Bidder certifies the following:
  - 1. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.
  - 2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.
  - 3. Bidder has not solicited or induced any individual or entity to refrain from bidding.
  - 4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 8.02.A:
    - a. Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.
    - b. Fraudulent practice means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition.
    - c. Collusive practice means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels.
    - d. Coercive practice means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

BIDDER hereby submits this Bid as set forth above:

Bidder:

	(typed or printed name of organization)
By:	
	(individual's signature)
Name:	(typed or printed)
Title:	
	(typed or printed)
Date:	
If Piddor is	(typed or printed)
ij Bluuer is	a corporation, a partnership, or a joint venture, attach evidence of authority to sign.
Attest:	
Namo	(individual's signature)
Name.	(typed or printed)
Title:	
	(typed or printed)
Date:	(tupod or printed)
Address f	or giving notices:
Bidder's C	iontact:
Name:	
<b></b>	(typed or printed)
litle:	(typed or printed)
Phone:	
Email:	
Address:	
<b>D</b> .   1 / -	
Bidder's C	iontractor License No.: (if applicable)
NEW YOF	K STATE DEPARTMENT OF LABOR REGISTRATION #

## AGREEMENT BETWEEN OWNER AND CONTRACTOR FOR CONSTRUCTION CONTRACT (STIPULATED PRICE)

This Agreement is by and between Town of Bath ("Owner") and **[name of contracting entity]** ("Contractor").

Terms used in this Agreement have the meanings stated in the General Conditions and the Supplementary Conditions.

Owner and Contractor hereby agree as follows:

### ARTICLE 1—WORK

1.01 Contractor shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described in Article 2, below.

### ARTICLE 2—THE PROJECT

# 2.01 THE PROJECT, OF WHICH THE WORK UNDER THE CONTRACT DOCUMENTS IS A PART, IS GENERALLY DESCRIBED AS FOLLOWS:

The project involves the construction of a new sewer system around Lake Salubria in Bath, NY along the following roadways: along East William Street Extension, Lake Salubria Drive, Dickson Drive, and State Route 415 (NYS 415). The system includes areas with a gravity collection system and areas with a low-pressure system requiring the installation of grinder stations and above ground pump stations and manhole wet wells. The proposed sanitary sewer collection system will service 145 properties in total consisting of 8" SDR35 gravity sewer and 4" HDPE force main sewer.

#### ARTICLE 3—ENGINEER

- 3.01 The Owner has retained Hunt Engineers, Architects, Land Surveyors & Landscape Architect, DPC. ("Engineer") to act as Owner's representative, assume all duties and responsibilities of Engineer, and have the rights and authority assigned to Engineer in the Contract.
- 3.02 The part of the Project that pertains to the Work has been designed by Hunt Engineers, Architects, Land Surveyors & Landscape Architect, DPC.

### ARTICLE 4—CONTRACT TIMES

- 4.01 *Time is of the Essence* 
  - A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.
- 4.02 *Contract Times: Dates* 
  - A. The Work will be substantially complete on or before December 31, 2026, and completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before June 30, 2027.

### 4.05 *Liquidated Damages*

- A. Contractor and Owner recognize that time is of the essence as stated in Paragraph 4.01 above and that Owner will suffer financial and other losses if the Work is not completed and Milestones not achieved within the Contract Times, as duly modified. The parties also recognize the delays, expense, and difficulties involved in proving, in a legal or arbitration proceeding, the actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty):
  - 1. *Substantial Completion:* Contractor shall pay Owner \$1,000 for each day that expires after the time (as duly adjusted pursuant to the Contract) specified above for Substantial Completion, until the Work is substantially complete.
  - 2. Completion of Remaining Work: After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Times (as duly adjusted pursuant to the Contract) for completion and readiness for final payment, Contractor shall pay Owner \$1,000 for each day that expires after such time until the Work is completed and ready for final payment.
  - 3. *Milestones:* Contractor shall pay Owner \$1,000 for each day that expires after the time (as duly adjusted pursuant to the Contract) specified above for achievement of Milestone 1, until Milestone 1 is achieved, or until the time specified for Substantial Completion is reached, at which time the rate indicated in Paragraph 4.05.A.1 will apply, rather than the Milestone rate.
  - 4. Liquidated damages for failing to timely attain Milestones, Substantial Completion, and final completion are not additive, and will not be imposed concurrently.
- B. If Owner recovers liquidated damages for a delay in completion by Contractor, then such liquidated damages are Owner's sole and exclusive remedy for such delay, and Owner is precluded from recovering any other damages, whether actual, direct, excess, or consequential, for such delay, except for special damages (if any) specified in this Agreement.
- C. Deleted

### 4.06 Special Damages

- A. Contractor shall reimburse Owner (1) for any fines or penalties imposed on Owner as a direct result of the Contractor's failure to attain Substantial Completion according to the Contract Times, and (2) for the actual costs reasonably incurred by Owner for engineering, construction observation, inspection, and administrative services needed after the time specified in Paragraph 4.02 for Substantial Completion (as duly adjusted pursuant to the Contract), until the Work is substantially complete.
- B. After Contractor achieves Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Times, Contractor shall reimburse Owner for the actual costs reasonably incurred by Owner for engineering, construction observation, inspection, and administrative services needed after the time specified in Paragraph 4.02 for Work to be completed and ready for final payment (as duly adjusted pursuant to the Contract), until the Work is completed and ready for final payment.
- C. The special damages imposed in this paragraph are supplemental to any liquidated damages for delayed completion established in this Agreement.

### **ARTICLE 5—CONTRACT PRICE**

- 5.01 Owner shall pay Contractor for completion of the Work in accordance with the Contract Documents, the amounts that follow, subject to adjustment under the Contract:
  - A. For all Unit Price Work, an amount equal to the sum of the extended prices (established for each separately identified item of Unit Price Work by multiplying the unit price times the actual quantity of that item).

Item No.	Description	Estimated Quantity	Unit	Bid Unit Price	Bid Amount
1	Mobilization	1	LS		\$
2	Maintenance & Protection of Traffic	1	LS		\$
3	Erosion & Sediment Control	1	LS		\$
4a	Clearing & Grubbing trees	1	LS		\$
4b	Temporary relocation of existing sheds, or other structures	1	LS		\$
5a	Rock Removal	50	CY		\$
5b	Unsuitable Backfill Material	300	CY		\$
6a	4ft Dia Precast Concrete Manhole (w Frame and Cover)	30	EA		\$
6b	5ft Dia Precast Concrete Manhole (w Frame and Cover)	4	EA		\$
6c	5ft Dia Precast Concrete Manhole (w Combination Air relief, Cleanouts-2, Frame and Cover)	3	EA		\$
6d	5ft Dia Precast Concrete Manhole (w Combination Air relief, Cleanouts-1, Frame and Cover)	2	EA		\$
6e	No Manhole 4-inch SCH PVC Cleanouts (w Screw Caps and Cast-Iron cover)	73	EA		\$
7a	4-inch Dia SDR 35 PVC Sewer Piping	1,300	LF		\$
7b	6-inch Dia SDR 35 PVC Sewer	350	LF		\$
7c	8-inch Dia SDR 35 PVC Sewer Piping	7,200	LF		\$
8a	1.25-inch Dia PE4710 HDPE Forcemain	4,500	LF		\$
8b	2-inch Dia PE4710 HDPE Forcemain	1,200	LF		\$
8c	3-inch Dia PE4710 HDPE Forcemain	1,400	LF		\$
8d	4-inch Dia PE4710 HDPE Forcemain	9,100	LF		\$
8e	1.25 Directional Drill HDPE	550	LF		\$
8f	4-inch Directional Drill HDPE	720	LF		\$
8g	6-inch Directional Drill HDPE	250	LF		\$
9	Railroad Crossing (18" Jack & Bore)	1	LS		\$

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Item	Description	Estimated	Unit	Bid Unit	Bid Amount
No.		Quantity		Price	
10a	Simplex Grinder Pump Station	48	EA		\$
10b	Duplex Grinder Pump Station	2	EA		\$
10c	Complete Simplex Pump Stations	5	EA		\$
	for Inventory				
10d	Duplex Pump Station for	1	EA		\$
	Inventory.				
10e	Pump for Inventory	3	EA		
11	NYS Route Crossing (12" Jack &	2	LS		\$
	Bore)				
12a	P1-E. Willaim Street Ext.	1	LS		\$
12b	P2- NYS Route 415	1	LS		\$
12c	P3- NYS Route 415	1	LS		\$
12d	P4-E. Washington Street Ext.	1	LS		\$
13	Electrical Equipment Service Wire	1	LS		\$
	& Conduit				
14	Sensitive Area Pneumatic	3	EA		\$
	Excavation				
15a	Asphalt Restoration (Local	3,100	SY		\$
	Roadway/Trench Repair)				
15b	Asphalt Restoration (Driveway)	1,400	SY		\$
16a	Gravel Drive Restoration	270	CY		\$
16b	Suitable Backfill Material	500	CY		\$
16c	Concrete Drives/Sidewalk	140	SY		\$
17	Lawn Restoration	28,000	SY		\$
18	Landscaping Restoration	1	LS		\$
19	Pump & Demolition of Existing	50	EA		\$
	Septic Tanks				
20	Flowable Fill	50	CY		\$
21	Dewatering	1	LS		\$
22	Connecting to Existing	10	EA		\$
Total o	f All Unit Price Bid Items			Total:	\$

The extended prices for Unit Price Work set forth as of the Effective Date of the Contract are based on estimated quantities. As provided in Paragraph 13.03 of the General Conditions, estimated quantities are not guaranteed, and determinations of actual quantities and classifications are to be made by Engineer.

### **ARTICLE 6—PAYMENT PROCEDURES**

#### 6.01 *Submittal and Processing of Payments*

A. Contractor shall submit Applications for Payment in accordance with Article 15 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.

### 6.02 *Progress Payments; Retainage*

- A. Owner shall make progress payments on the basis of Contractor's Applications for Payment on or about the **5th** day of each month during performance of the Work as provided in Paragraph 6.02.A.1 below, provided that such Applications for Payment have been submitted in a timely manner and otherwise meet the requirements of the Contract. All such payments will be measured by the Schedule of Values established as provided in the General Conditions (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no Schedule of Values, as provided elsewhere in the Contract.
  - 1. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts as Owner may withhold, including but not limited to liquidated damages, in accordance with the Contract.
    - a. 95 percent of the value of the Work completed (with the balance being retainage).
      - 1). Deleted
    - b. 95 percent of cost of materials and equipment not incorporated in the Work (with the balance being retainage).
- 6.03 Final Payment
  - A. Upon final completion and acceptance of the Work, Owner shall pay the remainder of the Contract Price in accordance with Paragraph 15.06 of the General Conditions.
- 6.04 *Consent of Surety* 
  - A. Owner will not make final payment or return or release retainage at Substantial Completion or any other time, unless Contractor submits written consent of the surety to such payment, return, or release.
- 6.05 Interest
  - A. All amounts not paid when due will bear interest at the rate of **8** percent per annum.

### ARTICLE 7—CONTRACT DOCUMENTS

- 7.01 *Contents* 
  - A. The Contract Documents consist of all of the following:
    - 1. This Agreement.
    - 2. Bonds:
      - a. Performance bond (together with power of attorney).
      - b. Payment bond (together with power of attorney).
    - 3. General Conditions.
    - 4. Supplementary Conditions.
    - 5. NYS Prevailing Wage Determination Schedule: PRC# 2024000840
    - 6. Federal (Davis Bacon) Wage Rate Schedule(s): NY20250018. NY20250048, NY20250117, and NY20250001

- 7. Specifications as listed in the table of contents of the project manual (copy of list attached).
- 8. Drawings listed on the attached sheet index.
- 9. Addenda (numbers **[number]** to **[number]**, inclusive).
- 10. Exhibits to this Agreement (enumerated as follows):
  - a. Contractor's Bid (pages **[number]** to **[number]**, inclusive).
- 11. The following which may be delivered or issued on or after the Effective Date of the Contract and are not attached hereto:
  - a. Notice to Proceed.
  - b. Work Change Directives.
  - c. Change Orders.
  - d. Field Orders.
  - e. Warranty Bond, if any.
- B. The Contract Documents listed in Paragraph 7.01.A are attached to this Agreement (except as expressly noted otherwise above).
- C. There are no Contract Documents other than those listed above in this Article 7.
- D. The Contract Documents may only be amended, modified, or supplemented as provided in the Contract.

### ARTICLE 8—REPRESENTATIONS, CERTIFICATIONS, AND STIPULATIONS

- 8.01 *Contractor's Representations* 
  - A. In order to induce Owner to enter into this Contract, Contractor makes the following representations:
    - 1. Contractor has examined and carefully studied the Contract Documents, including Addenda.
    - 2. Contractor has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
    - 3. Contractor is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
    - 4. Contractor has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.
    - 5. Contractor has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in

the Supplementary Conditions, with respect to Technical Data in such reports and drawings.

- 6. Contractor has considered the information known to Contractor itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Contract Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor; and (c) Contractor's safety precautions and programs.
- 7. Based on the information and observations referred to in the preceding paragraph, Contractor agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
- 8. Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.
- 9. Contractor has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
- 10. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
- 11. Contractor's entry into this Contract constitutes an incontrovertible representation by Contractor that without exception all prices in the Agreement are premised upon performing and furnishing the Work required by the Contract Documents.

### 8.02 *Contractor's Certifications*

- A. Contractor certifies that it has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the Contract. For the purposes of this Paragraph 8.02:
  - "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process or in the Contract execution;
  - "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process or the execution of the Contract to the detriment of Owner, (b) to establish Bid or Contract prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
  - 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish Bid prices at artificial, non-competitive levels; and

- 4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.
- 8.03 Standard General Conditions
  - A. Owner stipulates that if the General Conditions that are made a part of this Contract are EJCDC<sup>®</sup> C-700, Standard General Conditions for the Construction Contract (2018), published by the Engineers Joint Contract Documents Committee, and if Owner is the party that has furnished said General Conditions, then Owner has plainly shown all modifications to the standard wording of such published document to the Contractor, through a process such as highlighting or "track changes" (redline/strikeout), or in the Supplementary Conditions.

IN WITNESS WHEREOF, Owner and Contractor have signed this Agreement.

This Agreement will be effective on **[indicate date on which Contract becomes effective]** (which is the Effective Date of the Contract).

Owner:	Contractor:		
(typed or printed name of organization)	(typed or printed name of organization)		
By:	By:		
(individual's signature)	(individual's signature)		
Date:	Date:		
(date signed)	(date signed)		
Name:	Name:		
(typed or printed)	(typed or printed)		
Title:	Title:		
(typed or printed)	(typed or printed)		
	(If <b>[Type of Entity]</b> is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.)		
Attest:	Attest:		
(individual's signature)	(individual's signature)		
Title:	Title:		
(typed or printed)	(typed or printed)		
Address for giving notices:	Address for giving notices:		
Designated Representative:	Designated Representative:		
Name	Name:		
(typed or printed)	(typed or printed)		
Title	Title		
(typed or printed)	(typed or printed)		
Address:	Address:		
Phone:	Phone:		
Email:	Email:		
	License No.:		
	(where applicable)		
	Ctata.		

### PAYMENT ITEMS

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- 2) Maintenance & Protection of Traffic
- 3) Erosion & Sediment Control
- 4) Clearing and Grubbing
- 5) Rock Removal & Unsuitable Backfill Material
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- 20) Flowable Fill
- 21) Dewatering
- 22) Connection to Existing

### MOBILIZATION

#### I. SCOPE OF WORK

A. Description

This item includes all labor, equipment, tools, material, supervision, and services necessary to obtain bonds, insurance, attend the preconstruction conference and monthly meetings, shop drawings, order equipment, mobilize/demobilize to the job site, furnish Contractor's field offices, locate existing utilities, perform required surveying, and any other administrative requirements.

B. Technical Specifications Referenced

Division 1 - General Requirements

(Except 01 50 70 - Maintenance and Protection of Traffic)

#### II. MEASUREMENT AND PAYMENT

A. Measurement

Measurement for mobilization shall be pro-rated based on the percentage of the job completion, as estimated by the Engineer on periodic payment estimates.

B. Payment

Payments are subject to the requirements of the General Conditions and General Requirements. Fifty percent (50%) of the lump sum bid price shall be due to the Contractor on the first partial payment estimate. The remainder shall be prorated over the duration of the project, based on the Engineer's estimate of percent job completion.

### MAINTENANCE AND PROTECTION OF TRAFFIC

#### I. SCOPE OF WORK

A. Description

Work under this item shall include furnishing all labor, supervision, equipment, tools, materials, and supplies necessary to properly protect and maintain vehicular and pedestrian traffic throughout the duration of the project.

B. Technical Specifications Referenced

01 50 00 – Temporary Facilities and Controls 01 50 70 - Maintenance & Protection of Traffic NYSDOT Standard Specifications, Latest Edition

C. Special Requirements

Contractor shall conform to all applicable requirements set out in the New York State Manual of Uniform Traffic Control Devices.

The Contractor shall prepare and submit a traffic control plan for approval.

### II. MEASUREMENT AND PAYMENT

A. Measurement

Measurement of maintenance and protection of traffic shall be pro-rated based on percentage of job completion, as estimated by the Engineer on periodic payment estimates.

B. Payment

Payments subject to the requirements of the General Conditions and General Requirements shall be made at the lump sum bid price, pro-rated at percentage of job completion.

### **EROSION & SEDIMENT CONTROL**

#### I. SCOPE OF WORK

A. Description

Work under this item includes furnishing all labor, tools, equipment, materials, and services necessary to install and maintain silt fence, stone check dams, straw bales, drainage inlet protection measures and other erosion control measures as shown on the contract drawings and as ordered by the project engineer.

B. Technical Specifications Referenced

01 60 00 Product Requirements

#### II. MEASUREMENT AND PAYMENT

A. Measurement

The quantity paid shall be the lump sum for all items place in accordance with the contract drawings, these specifications, and per the project engineer. The bid price shall be inclusive for installation of materials and all other related items and requirements.

B. Payment

Payments are subject to the requirements of the general conditions and general requirements. Payment for work shall be made at the unit price bid and shall be prorated based upon percentage of job completion.

### **CLEARING & GRUBBING**

#### I. SCOPE OF WORK

A. Description

This item includes all labor, equipment, tools, material, and services necessary to perform clearing and grubbing trees along designated easements, as shown on the contract drawings, herein specified or reasonably implied to carry out the intent of the work. Clearing shall be suitable enough for access of equipment and installation of piping. Clearing limits equal twenty feet in width.

This item shall also include all labor, equipment, tools, material, and services necessary to temporarily relocate any existing sheds or other structures (i.e. fences, clothes lines, etc.), as shown on the contract drawings, herein specified or reasonably implied to carry out the intent of the work.

- B. Itemized Schedule
  - 4a. Clearing and Grubbing trees
  - 4b. Temporary relocation of existing sheds, or other structures
- C. Technical Specifications Referenced

31 10 00 Site Clearing

D. Work specifically excluded

Erosion & Sediment Control

### II. MEASUREMENT AND PAYMENT

A. Measurement

Measurement of clearing & grubbing shall be pro-rated based on percentage of job completion, as estimated by the Engineer on periodic payment estimates.

B. Payment

Payments subject to the requirements of the General Conditions and General Requirements, shall be made at the lump sum bid price, pro-rated at percentage of job completion.

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### ROCK REMOVAL / UNSUITABLE BACKFILL MATERIAL

### I. SCOPE OF WORK

A. Description

Work under this item shall include all labor, equipment, tools, materials, and supplies necessary for the removal and disposal of rock or unsuitable backfill material as shown on the contract drawings, herein specified or reasonably implied to carry out the intent of the work. This work also includes import and placement of Engineer approved backfill material. Unsuitable backfill material shall be determined by the Engineer. Excess suitable onsite material may be acceptable for backfill in unsuitable material locations, at the approval of the engineer.

- B. Itemized Schedule
  - 5a. Rock Removal5b. Unsuitable Backfill Material
- C. Technical Specifications Referenced

31 23 16 - Excavation 31 23 16.13 - Trenching 31 23 23 - Fill 31 26 16.26 - Rock Removal

D. Work Specifically Excluded

Material which can be removed by normal earth excavation methods (CAT 360 min) will not be paid for as Rock Removal. Rock Removal shall not include excavation or removal of catch basin, manholes, drop inlets, pavement/bases, and pipes of whatever dimension or type.

Imported granular fill cost due to unsuitable backfill material shall be paid for under payment 18.

#### II. MEASUREMENT AND PAYMENT

#### A. Measurement

Measurement to determine volume of rock removal or unsuitable backfill material shall be taken after excavation. Payment limits shall be based on required trench dimensions as shown on the contract drawings. Allowance for upheaval shall be made by the Engineer based on visual inspection. Payment shall be based on volume of rock (cubic yards) or unsuitable backfill material (cubic yards) removed and disposed of.

PAYMENT ITEM 5 Section 01 22 00 Page 1

### B. Acceptance

Acceptance of rock removal or unsuitable backfill material shall be preceded by:

- notification and approval of appropriate authorities
- initial sections
- final sections
- repair of any damaged utilities or restitution in connection with any such damages
- C. Payment

Payment shall be made at the unit price bid, per cubic yard of rock removal or unsuitable backfill material.

### PRECAST CONCRETE MANHOLES (w/ Frame & Cover) AND CLEANOUTS

### I. SCOPE OF WORK

A. Description

Work under this item shall include furnishing all labor, equipment, tools, material, and services necessary to install and test sanitary sewer manholes of the sizes (diameters) and depths shown on the contract drawings, contained herein or as directed by the Engineer. This work will include all excavation and spoil removal, dewatering, bedding, manholes, coatings, frames and covers (sealed watertight lids), backfill, cleaning, testing and incidental appurtenances.

- B. Itemized Schedule
  - 6a. 4-ft Dia. Precast Concrete Manhole (w/ Frame & Cover)
  - 6b 5-ft Dia. Precast Concrete Manhole (w/ Frame & Cover)
  - 6c. 5-ft Dia. Precast Concrete Manhole (w/ combination air Relief and 2-Cleanout)
  - 6d. 5-ft Dia. Precast Concrete Manhole (w/ combination air Relief and 1-Cleanout)
  - 6e. No Manhole 4-inch PVC Cleanouts with Screw Caps and Cast-Iron Cover
- C. Technical Specifications Referenced

01 50 00 - Temporary Facilities and Controls
Division 31 - Earthwork
32 11 23 - Aggregate Base Courses
33 05 13 - Manholes and Structures
33 31 11 - Sanitary Utility Sewerage Piping (Gravity)

D. Work Specifically Excluded

Sanitary Utility Sewerage Piping

#### II. MEASUREMENT AND PAYMENT

A. Measurement

Measurement shall be based on the number of manholes installed.

B. Payment

Payment shall be made at the unit price bid and is subject to the provisions of the General Conditions and General Requirements. Payment shall be made as follows:

Completed Stage	Total Payment Including This Completed Stage
Complete Installation and Backfill	75%
Complete Testing	100%
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### SDR 35 PVC SEWER PIPING/FITTINGS

#### I. SCOPE OF WORK

#### A. Description

Work under this item shall include furnishing all labor, equipment, tools, material, and services necessary to:

- 1. Perform all dewatering.
- 2. Excavate trenches to the required lines and grades.
- 3. Removal of the existing wastewater collection system (if required).
- 4. Install sewers with bedding and safety cover to the required lines and grades.
- 5. Backfill trenches with the material and in the manner specified.
- 6. Hydroflush all sewers.
- 7. Perform the specified testing.
- 8. All service line lateral crossings of NYS DOT roads shall be directionally drilled.
- 9. Perform all work as shown on drawings, specified herein, or directed by the Engineer.

If, in the opinion of the Engineer, excavated material is of suitable quality, it shall be retained and used as native backfill material. If it is determined to be unsuitable material, imported granular fill shall be used for backfill material.

This payment item shall also include the cost (inspection costs, specialized excavation or backfill, etc.) to construct near or across any existing utilities.

B. Itemized Schedule

7a. 4-inch Dia. SDR 35 PVC Sewer Piping 7b. 6-inch Dia. SDR 35 PVC Sewer 7c. 8-inch Dia. SDR 35 PVC Sewer Piping

C. Technical Specifications Referenced

01 50 00 - Temporary Facilities and Controls Division 31 - Earthwork 32 11 23 - Aggregate Base Courses 33 05 13 - Manholes and Structures 33 05 25 - Utility Boring and Jacking 33 31 11 - Sanitary Utility Sewerage Piping (Gravity)

D. Work Specifically Excluded

Imported granular fill costs due to unsuitable backfill material shall be paid for under payment item 5.

#### II. MEASUREMENT AND PAYMENT

A. Measurement

Measurement shall be made along the centerline of the in-place pipe to the nearest lineal foot.

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#### B. Payment

Payment for work completed under this item shall be at the contract unit price bid per foot of gravity sewer installed at the depths given. Payment will be subject to the provisions and retainage as specified in the General Conditions and General Requirements. Payment shall be made as follows:

Completed Stage	Total Payment Including This Completed Stage		
Complete Excavation and Backfill	75%		
Complete Testing	90%		
Complete Restoration	100%		

### HDPE FORCEMAIN AND DIRECTIONAL DRILL

#### I. SCOPE OF WORK

A. Description

Work under this item shall include all labor, equipment, tools, materials, and supplies necessary to:

- 1. Preform all dewatering.
- 2. Excavate trenches to the required lines and grades.
- 3. Install HDPE forcemain with bedding and safety cover to the required lines and grades.
- 4. Backfill trenches with the material and in the manner specified.
- 5. Perform the specified testing.
- 6. All service line lateral crossings of NYS DOT roads shall be directionally drilled.
- 7. Perform all work as shown on drawings, specified herein, or directed by the Engineer.

If, in the opinion of the Engineer, excavated material is of suitable quality, it shall be retained and used as native backfill material. If it is determined to be unsuitable material, imported granular fill shall be used for backfill material.

This payment item shall also include the cost (inspection costs, specialized excavation or backfill, etc.) to construct near or across any existing utilities.

#### B. Itemized Schedule

- 8a. 1.25-inch Dia. PE4710 HDPE Forcemain
- 8b. 2-inch Dia PE4710 HDPE Forcemain
- 8c. 3-inch Dia PE4710 HDPE Forcemain
- 8d. 4-inch Dia. PE4710 HDPE Forcemain
- 8e. 1.25 Directional Drill HDPE
- 8f. 4-inch Directional Drill HDPE
- 8g. 6-inch Directional Drill HDPE
- C. Technical Specifications Referenced

01 50 00 - Temporary Facilities and Controls Division 31 - Earthwork 32 11 23 - Aggregate Base Courses 33 05 13 - Manholes and Structures 33 05 25 - Utility Boring and Jacking 33 31 13 - Site Sanitary Utility Sewerage Piping (force)

D. Work Specifically Excluded

HDPE Forcemain (Directional Drill)

#### II. MEASUREMENT AND PAYMENT

A. Measurement

Measurement shall be made of the linear feet of pipe and fittings installed, along the centerline of the pipe in place, to the nearest half foot. Payment shall be made based upon a horizontal measurement without consideration for vertical change. Extension of directional drill or casing installation beyond the limits shown on the

> PAYMENT ITEM 8 Section 01 22 00 Page 1

contract documents, without just cause, shall be done at the contractor's expense.

### Payment

Payments shall be made at the unit price bid, and are subject to the provisions of the General Conditions and General Requirements. Partial payments shall be made in the amounts shown below:

Completed Stage	Total Payment Including <u>This Completed Stage</u>
Complete Excavation and Backfill	75%
Complete Testing	90%
Complete Restoration	100%

### **RAILROAD JACK & BORE**

#### I. SCOPE OF WORK

#### A. Description

Work under this item shall include all labor, equipment, tools, materials, and supplies necessary to prepare for and install appropriately sized gravity sewer and/or forcemain, and steel casing via boring & jacking beneath B&H Railroad tracks, as shown on the contract drawings, herein specified or reasonably implied to carry out the intent of the work. All costs associated with permitting and maintenance & protection of traffic for all work within Railroad right-of-way should be included in this payment item.

This payment item shall also include the cost (inspection costs, specialized excavation or backfill, etc.) to construct near or across any existing utilities.

- B. Itemized Schedule
  - 9. Railroad Crossing (18" Jack & Bore)
- C. Technical Specifications Referenced

01 50 00 - Temporary Facilities and Controls 33 05 25 - Utility Boring & Jacking

- 33 31 11 Sanitary Utility Sewerage Piping (Gravity)
- 33 31 13 Sanitary Utility Sewerage Piping (Force)

#### II. MEASUREMENT AND PAYMENT

A. Measurement

Measurement shall consist of the number of lineal feet of boring and jacking installed with sewer piping and fittings within the payment limits as shown on the contract documents. Measurement shall be to the nearest foot. Extension of the boring and jacking beyond the limits shown on the contract drawings, without just cause, will be at the contractor's expense.

B. Payment

Payments shall be made at the unit price bid, and are subject to the provisions of the General Conditions and General Requirements. Partial payments shall be made in the amounts shown below:

Completed Stage	Total Payment Including <u>This Completed Stage</u>
Complete Installation and Backfill	75%
Complete Testing	100%

### **GRINDER PUMP STATIONS**

#### I. SCOPE OF WORK

#### A. Description

Work under this item includes furnishing all labor, tools, equipment, materials, and services necessary to complete the installation of the simplex and duplex Grinder Pump Stations, as shown on the engineering drawings. This payment shall also include all connections to discharge piping, new control panel, and its associated controls. Installation will include excavation, dewatering, connections using any necessary fittings, backfill, and completing all testing requirements.

Spare Inventory Parts for maintenance: These items shall not be installed items. and will be for inventory only for the district incidental future repairs.

- B. Itemized Schedule
  - 10a. Simplex Grinder Pump Station
  - 10b. Duplex Grinder Pump Station
  - 10c. Spare Simplex Grinder Pump Station
  - 10d. Spare Duplex Grinder Pump Station
  - 10c. Spare pumps for the Duplex and Simplex Pump Stations
- C. Technical Specifications Referenced

33 32 13 – Packaged Wastewater Pumping Stations

D. Work Specifically Excluded

All necessary costs due to installation of electrical conduit and wiring shall be paid for under payment item 14.

#### II. MEASUREMENT AND PAYMENT

A. Measurement

Measurement shall be based on the number of pump systems installed, as shown on the engineer drawings.

B. Acceptance

Acceptance shall be preceded by complete and satisfactory installation and testing of all items as detailed on the contract drawings, or as specified herein.

C. Payment

Payments shall be made at the unit price bid, and are subject to the provisions of the General Conditions and General Requirements. Partial payments shall be made in the amounts shown below:

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Completed Stage	Total Payment Including This Completed Stage
Complete Installation and Backfill	75%
Complete Testing	100%

### NYS ROUTE JACK & BORE

#### I. SCOPE OF WORK

#### A. Description

Work under this item shall include all labor, equipment, tools, materials, and supplies necessary to prepare for and install appropriately sized gravity sewer and/or forcemain, and steel casing via boring & jacking beneath NYS Routes, as shown on the contract drawings, herein specified or reasonably implied to carry out the intent of the work. All costs associated with maintenance & protection of traffic for all work within NYSDOT right-of-way should be included in this payment item.

This payment item shall also include the cost (inspection costs, specialized excavation or backfill, etc.) to construct near or across any existing utilities.

- B. Itemized Schedule
  - 11. NYS Route Crossing (12" Jack & Bore)
- C. Technical Specifications Referenced

01 50 00 - Temporary Facilities and Controls 33 05 25 - Utility Boring & Jacking 33 31 11 - Sanitary Utility Sewerage Piping (Gravity)

- 22.24.42 Serviter ( Utility Sewerage Fiping (Gravity)
- 33 31 13 Sanitary Utility Sewerage Piping (Force)

#### II. MEASUREMENT AND PAYMENT

#### A. Measurement

Measurement shall consist of the number of lineal feet of boring and jacking installed with sewer piping and fittings within the payment limits as shown on the contract documents. Measurement shall be to the nearest foot. Extension of the boring and jacking beyond the limits shown on the contract drawings, without just cause, will be at the contractor's expense.

B. Payment

Payments shall be made at the unit price bid, and are subject to the provisions of the General Conditions and General Requirements. Partial payments shall be made in the amounts shown below:

Completed Stage	Total Payment Including <u>This Completed Stage</u>		
Complete Installation and Backfill	75%		
Complete Testing	100%		

### PUMP STATIONS

#### I. SCOPE OF WORK

A. Description

Work under this item includes furnishing all labor, tools, equipment, materials, and services necessary to complete the installation of new pumping stations and wet wells including piping within wet well and pumps, electrical conduit and wiring from service location to the pump station as shown on the engineering drawings. This payment shall also include but not limited to all connections to the force main and gravity line, Installation will include excavation, dewatering, concrete work, connections using any necessary fittings, backfill, and completing all testing requirements.

- B. Itemized Schedule
  - 12a. P1- E. William Street Ext
  - 12b. P2- NYS Route 415
  - 12c. P3- NYS Route 415
  - 12d. P4- E. Washington Street Ext.
- C. Technical Specifications Referenced

All applicable technical sections.

D. Work Specifically Excluded

Lift Stations. Simplex Grinder, Duplex Grinder – in Pay Item 10

#### **II. MEASUREMENT AND PAYMENT**

A. Measurement

Measurement shall be the unit bid price for all items placed in accordance with the contract drawings, these specifications, and per the engineer. The bid price shall be inclusive for installation of materials and all other related items and requirements.

B. Acceptance

Acceptance shall be preceded by complete and satisfactory installation, and testing of all items as detailed on the contract drawings, or as specified herein.

C. Payment

Payments shall be made at the unit price bid, and are subject to the provisions of the General Conditions and General Requirements. Partial payments shall be made in the amounts shown below:

Completed Stage	Total Payment Including This Completed Stage		
Complete Installation and Backfill	75%		
Complete Testing	90%		
Complete Restoration	100%		

### ELECTRICAL EQUIPMENT SERVICE WIRE & CONDUIT

#### I. SCOPE OF WORK

A. Description

Work under this item shall include furnishing all labor, equipment, tools, material, and services necessary to:

- 1. Perform all dewatering.
- 2. Excavate trenches to the required lines and grades.
- 3. Install electrical conduit with wiring, bedding and safety cover to the required lines and grades.
- 4. Backfill trenches with the material and in the manner specified.
- 5. Perform the specified testing
- 6. Perform all work as shown on drawings, specified herein, or directed by the Engineer.
- 7. This payment item shall also include the cost of connecting to BEGW services.

If, in the opinion of the Engineer, excavated material is of suitable quality, it shall be retained and used as native backfill material. If it is determined to be unsuitable material, imported granular fill shall be used for backfill material.

This payment item shall also include the cost (inspection costs, specialized excavation or backfill, etc.) to construct near or across any existing utilities.

01 50 00 - Temporary Facilities and Controls Division 26 - Electrical Division 31 - Earthwork

B. Work Specifically Excluded

**Electrical Panel** 

Imported granular fill costs due to unsuitable backfill material shall be paid for under payment item 5b.

#### II. MEASUREMENT AND PAYMENT

A. Measurement

Measurement shall be made by percentage of electric services installed.

B. Payment

Payment for work completed under this item shall be at the contract unit price. Payment will be subject to the provisions and retainage as specified in the General Conditions and General Requirements. Payment shall be made as follows:

Completed Stage	Total Payment Including This Completed Stage		
Complete Excavation and Backfill	75%		
Complete Testing and Inspection	90%		
Complete Restoration	100%		

### SENSITIVE AREA PNEUMATIC EXCAVATION

#### I. SCOPE OF WORK

A. Description

Work under this item shall include furnishing all labor, equipment, tools, material, and services necessary to excavate pneumatically around sensitive areas as indicated on drawings. This item shall include all costs to install utilities, as shown and described in the Contract Documents, herein specified, or reasonably implied to carry out the intent of the work. Perform this work of this section under a Certified Arborist

B. Technical Specifications Referenced

31 23 16 - Excavation 33 23 16a - 614.08XX0009 Pneumatic Excavation

#### II. MEASUREMENT AND PAYMENT

A. Measurement

Measurement shall be made of unit bid prices for all items placed in accordance with the contract drawings, these specifications and per the Arborist and Engineer. The bid price shall be inclusive for the installation of materials and all other related items and requirements.

B. Payment

Payments are subject to the requirements of the general conditions and general requirements. Payment shall be made at the unit price bid after complete and satisfactory excavation, as shown on the contract drawings.

### ASPHALT RESTORATION

#### I. SCOPE OF WORK

A. Description

Work under this item shall include all labor, equipment, tools, materials, and supplies necessary to repair and replace all County and Town asphalt highway pavement disturbed or removed throughout sanitary sewer system construction, with hot mix asphalt and granular subbase, per the itemized schedule below, and as shown and described in the Contract Documents, herein specified, or reasonably implied to carry out the intent of the work. Included in this payment item is the cost of installing asphalt pavement and granular subbase at the required thicknesses, saw cutting, cleaning, tack coat, and crack sealing.

- B. Itemized Schedule
  - 15a. Asphalt Restoration (Local Roadway/Trench Repair)
  - 15b. Asphalt Restoration (Driveway)
- C. Technical Specifications Referenced

01 50 00 - Temporary Facilities and Controls
Division 31 - Earthwork
32 11 23 - Aggregate Base Courses
32 12 16 - Asphalt Paving
Section 400 Bituminous Pavements, NYSDOT
Standard Specifications May 1, 2008

D. Special Requirements

This payment item shall cover restoration of all damaged paved areas within the payment limits as shown on the contract drawings. All disturbed paved areas outside the payment limits shall be restored at the Contractor's expense.

### II. MEASUREMENT AND PAYMENT

A. Measurement

Measurement shall be made of the number of square yards of pavement and subbase installed along the centerline of the pipe to the nearest yard. Thickness of bituminous pavement shall be as shown on the Contract drawings. Maximum pay limit width along pipeline shall be 7-ft wide.

B. Payment

Payments are subject to the requirements of the general conditions and general requirements. Payment for work completed shall be made at the contract unit price bid per square foot upon complete and satisfactory installation.

### GRAVEL DRIVE RESTORATION & SUITABLE BACKFILL MATERIAL

#### I. SCOPE OF WORK

A. Description

Work under this item shall include furnishing all labor, equipment, tools, materials and supplies necessary to repair and replace gravel driveways as shown on the contract drawings, herein specified, or reasonably implied to carry out the intent of the work. All disturbed areas outside of the contract limit lines shall be restored to as-good or better conditions by the Contractor, at no cost to the Owner.

Work under this item shall also include the installation of fill material when no on-site material is available due to rock removal or unsuitable backfill material, at the approval of the engineer.

B. Itemized Schedule

16a. Gravel Drive Restoration16b. Suitable Backfill Material16c. Concrete drives and sidewalks

C. Technical Specifications Referenced

01 50 00 - Temporary Facilities and Controls
31 23 16 - Excavation
31 23 16.13 - Trenching
31 23 23 - Fill
32 11 23 - Aggregate Base Courses

#### II. MEASUREMENT AND PAYMENT

A. Measurement.

Measurement shall be made of the cubic yards installed within the contract payment limit lines. Measurement shall be made to the nearest half of cubic yard. Maximum pay limit width for 18a. shall be 7-feet wide. Maximum pay limit width for suitable backfill along pipeline shall be 4-feet wide.

B. Acceptance

Acceptance shall be based on complete and satisfactory replacement of damaged gravel drive areas both within and outside of the payment limits shown on the contract drawings.

C. Payment

Payment shall be made according to the unit price bid and the measured quantity, as approved by the Engineer, and subject to the provisions of the General Conditions and General Requirements.

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### LAWN RESTORATION

#### I. SCOPE OF WORK

#### A. Description

Work under this item shall include furnishing all labor, equipment, tools, materials and supplies necessary to place topsoil on all disturbed lawns, lime, fertilize, seed, and mulch, within the contract limits, herein specified, or reasonably implied to carry out the intent of the work. All disturbed areas outside of the contract limit lines shall be restored to as-good or better conditions by the Contractor, at no cost to the Owner.

B. Technical Specification Referenced

01 50 00 Temporary Facilities and Controls 31 05 13 Soils for earthwork 32 92 19 Seeding

#### II. MEASUREMENT AND PAYMENT

A. Measurement.

Measurement shall be made of the square yards of restoration performed, within the contract payment limit lines. Measurement shall be made to the nearest whole square yard. Maximum pay limit width along pipeline shall be 20-feet wide.

B. Acceptance

Acceptance shall be based on complete and satisfactory replacement of damaged lawn areas both within and outside of the payment limits shown on the contract drawings.

C. Payment

Payment shall be made according to the unit price bid and the measured quantity, as approved by the Engineer, and subject to the provisions of the General Conditions and General Requirements.

Total Payment Including <u>Completed Stage</u>	This Completed Stage		
Complete Installation	90%		
Complete Germination and Sustained Grass	100%		

### LANDSCAPING RESTORATION

#### I. SCOPE OF WORK

A. Description

Work under this item shall include furnishing all labor, equipment, tools, materials and supplies necessary to replace/reinstall all mailboxes, trees, planters, fences (including invisible fencing), etc. within the contract limits as shown and described in the Contract Documents, herein specified, or reasonably implied to carry out the intent of the work. All disturbed areas outside of the contract limit lines shall be restored to as-good or better conditions by the Contractor, at no cost to the Owner.

B. Technical Specifications

Referenced All applicable

Sections

#### II. MEASUREMENT AND PAYMENT

A. Measurement

Measurement for landscaping restoration shall be pro-rated based on the percentage of the job completed as estimated by the Engineer on periodic payment estimates.

B. Acceptance

Acceptance shall be based on complete and satisfactory reinstallment/replacement of mailboxes, trees, planters, etc. both within and outside of the payment limits shown on the contract drawings.

C. Payment

Payment shall be made according to the unit price bid and shall be pro-rated based upon percentage of job complete as approved by the Engineer, and subject to the provisions of the General Conditions and General Requirements.

**Total Payment Including** 

Completed Stage	This Completed Stage	
Complete Excavation and Backfill	90%	
Complete Restoration	100%	

### PUMP & DEMOLITION OF EXISTING SEPTIC TANKS

### I. SCOPE OF WORK

A. Description

Work under this item shall include furnishing all labor, equipment, tools, material, and services necessary to locate, pump out, and abandon existing septic tanks and cess pools, contained herein or as directed by the Engineer. This work will include all excavation, septage pumping, septage disposal, demolition, gravel fill, abandonment, and restoration.

B. Technical Specifications Referenced

All Applicable Sections

#### II. MEASUREMENT AND PAYMENT

A. Measurement

Measurement shall be based on the number of complete septic tanks pumped, demolished, and backfilled.

B. Payment

Payments are subject to the requirements of the general conditions and general requirements. Payment for work shall be made at the unit price bid and shall be pro-rated based upon percentage of job complete.

### FLOWABLE FILL

#### I. SCOPE OF WORK

A. Description

Work under this item shall include furnishing all labor, equipment, tools, material, and services necessary to backfill excavations and trenches with Controlled Low-Strength (Flowable Fill) for the installation of the sanitary sewer system. This item shall include all costs to install non-point loaded support systems for piping and appurtenances, any required form work, finishing, and curing as shown and described in the Contract Documents, herein specified or reasonably implied to carry out the intent of the work. This payment item shall include credit for the normal aggregate bedding specified for the base of the sanitary sewer system installation and installation and protection of adjacent structures as directed by the Engineer.

- B. Itemized Schedule
  - 20. Flowable Fill Per Cubic Yard Measured in Place
- C. Technical Specifications Referenced

Division 3 - Concrete

31 23 16.13	- Trenching
31 23 19	- Dewatering
32 11 23	- Aggregate Base Courses
33 31 11	- Sanitary Sewerage Piping (Gravity)

#### II. MEASUREMENT AND PAYMENT

#### A. Measurement

The pay limits will be the neat lines or actual measurements of the excavation area when Flowable Fill is used in lieu of aggregate materials.

B. Payment

Payments are subject to the requirements of the general conditions and general requirements. Payment shall be made at the unit price bid after complete and satisfactory installation of the flowable fill, as shown on contract drawings.

### DEWATERING

#### I. SCOPE OF WORK

#### A. Description

Work under this item shall include furnishing all labor, equipment, tools, material, and services necessary to:

- 1. Perform excessive dewatering.
- Permitting required by NYSDEC.
- 3. Perform all work as shown on drawings, specified herein, or directed by the Engineer.

The contractor should prepare a dewatering plan in general for the project for review by the Engineer. If the Contractor intends to use a system that is considered a Standard of the Industry, it does not have to be prepared by a Professional Engineer. However, if he is proposing a new type system of dewatering, it shall be prepared by a Professional Engineer. The system should be submitted as a shop drawing before construction progresses, so it is not a hold up to construction when needed.

If, in the opinion of the Engineer, and the performance of the contractor to provide adequate dewatering due to field conditions, this pay item will be used to provide trench excavation, installation of pipe and appurtenances, and, backfill operations in a safe and proper manor.

This payment item shall also include the cost to construct and maintain special discharge basins, equipment for dewatering, maintenance and operation of the equipment, permit preparation and compliance, permit close out, and other required actions created by this operation.

Excessive Dewatering will be determined when the excavation is 8 feet deep or more, the specified width of trench is more than 50% filled, over a minimum of 50 linear feet of trench length, with ground, storm or surface water, and the Contractor seeks approval to continue working to stay within the contract schedule and it is mutually agreed to pay for the additional dewatering expense by the Engineer and Owner.

B. Itemized Schedule

21. Dewatering

Per Day of Operation

C. Technical Specifications Referenced

01 50 00 - Temporary Facilities and Controls Division 31 – Earthwork 31 23 16 – Excavation 31 23 16.13 - Trenching 32 11 23 - Aggregate Base Courses 33 05 13 - Manholes and Structures 33 05 25 - Utility Boring and Jacking 33 31 11 - Sanitary Utility Sewerage Piping (Gravity) D. Work Specifically Excluded

The anticipated dewatering includes and paid for under payment item 7.

#### II. MEASUREMENT AND PAYMENT

A. Measurement

The quantity paid shall be the lump sum for all items places in accordance with contract drawings. .

B. Payment

Payment for work completed under this item shall be at the contract unit price bid. Payment will be subject to the provisions and retainage as specified in the General Conditions and General Requirements.

**Total Payment Including** 

Completed Stage	This Completed Stage
Complete Excavation and Back	fill 75%
Complete Testing	90%
Complete Restoration	100%

### CONNECTION TO EXISTING

#### SCOPE OF WORK

A. Description

Work under this item includes furnishing all labor, tools, equipment, materials and services necessary to complete all connections from cleanouts to existing sewer laterals at the residents/businesses, on properties where demolition of existing septic tanks has been completed, as shown on the engineering drawings. All excavation, backfill, and testing requirements, is included in this work.

#### B. Technical Specifications Referenced

01 50 00 - Temporary Facilities and Controls
Division 31 - Earthwork
32 11 23 - Aggregate Base Courses
33 31 11 -Sanitary Utility Sewerage Piping (Gravity)

#### I. MEASUREMENT AND PAYMENT

#### A. Measurement

Measurement shall be based on the number of connections made to existing sanitary sewer laterals, as shown on the engineer drawings.

#### B. Payment

Payments are subject to the requirements of the general conditions and general requirements. Payment for work shall be made at the unit price bid and shall be pro-rated based upon percentage of job completion.

### SECTION 26 28 16.13 ENCLOSED CIRCUIT BREAKERS

### PART 1 GENERAL

- 1.1 SECTION INCLUDES
  - A. Enclosed circuit breakers.

#### 1.2 RELATED REQUIREMENTS

A. Section 26 05 26 - Grounding and Bonding for Electrical Systems.

### 1.3 REFERENCE STANDARDS

- A. FS W-C-375 Circuit Breakers, Molded Case; Branch Circuit and Service; 2013e, with Amendment (2017).
- B. NECA 1 Standard for Good Workmanship in Electrical Construction; 2015.
- C. NEMA 250 Enclosures for Electrical Equipment (1000 Volts Maximum); 2020.
- D. NFPA 70 National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- E. UL 50E Enclosures for Electrical Equipment, Environmental Considerations; Current Edition, Including All Revisions.
- F. UL 489 Molded-Case Circuit Breakers, Molded-Case Switches and Circuit Breaker Enclosures; Current Edition, Including All Revisions.
- G. UL 869A Reference Standard for Service Equipment; Current Edition, Including All Revisions.

#### 1.4 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's standard catalog pages and data sheets for circuit breakers, enclosures, and other installed components and accessories.

#### PART 2 PRODUCTS

#### 2.1 ENCLOSED CIRCUIT BREAKERS

- A. Description: Units consisting of molded case circuit breakers individually mounted in enclosures.
- B. Provide products listed, classified, and labeled as suitable for the purpose intended.
- C. Unless otherwise indicated, provide products suitable for continuous operation under the following service conditions:
  - 1. Altitude: Less than 6,600 feet.
  - 2. Ambient Temperature: Between 23 degrees F and 104 degrees F.
- D. Short Circuit Current Rating:

- 1. Provide enclosed circuit breakers with listed short circuit current rating not less than the available fault current at the installed location indicated on the drawings.
- E. Enclosed Circuit Breakers Used for Service Entrance: Listed and labeled as suitable for use as service equipment according to UL 869A.
- F. Conductor Terminations: Suitable for use with the conductors to be installed.
- G. Provide thermal magnetic circuit breakers unless otherwise indicated.
- H. Provide insulated, groundable fully rated solid neutral assembly where a neutral connection is required, with a suitable lug for terminating each neutral conductor.
- I. Provide solidly bonded equipment ground bus in each enclosed circuit breaker, with a suitable lug for terminating each equipment grounding conductor.
- J. Enclosures: Comply with NEMA 250, and list and label as complying with UL 50 and UL 50E.
  - 1. Environment Type per NEMA 250: Unless otherwise indicated, as specified for the following installation locations:
    - a. Outdoor Locations: Type 4X, stainless steel.
- K. Provide externally operable handle with means for locking in the OFF position.

### 2.2 MOLDED CASE CIRCUIT BREAKERS

- A. Description: Quick-make, quick-break, over center toggle, trip-free, trip-indicating circuit breakers listed and labeled as complying with UL 489, and complying with FS W-C-375 where applicable; ratings, configurations, and features as indicated on the drawings.
- B. Interrupting Capacity:
  - 1. Provide circuit breakers with interrupting capacity as required to provide the short circuit current rating indicated, but not less than:
- C. Conductor Terminations:
  - 1. Lug Material: Aluminum, suitable for terminating aluminum or copper conductors.
- D. Thermal Magnetic Circuit Breakers: For each pole, furnish thermal inverse time tripping element for overload protection and magnetic instantaneous tripping element for short circuit protection.
- E. Multi-Pole Circuit Breakers: Furnish with common trip for all poles.

### PART 3 EXECUTION

#### 3.1 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
- B. Perform work in accordance with NECA 1 (general workmanship).
- C. Arrange equipment to provide minimum clearances in accordance with manufacturer's instructions and NFPA 70.
- D. Install enclosed circuit breakers plumb.
- E. Except where indicated to be mounted adjacent to the equipment they supply, mount enclosed circuit breakers such that the highest position of the operating handle does not exceed 79 inches above the floor or working platform.
- F. Provide grounding and bonding in accordance with Section 26 05 26.

### 3.2 CLEANING

- A. Clean dirt and debris from circuit breaker enclosures and components according to manufacturer's instructions.
- B. Repair scratched or marred exterior surfaces to match original factory finish.

END OF SECTION

### SECTION 32 11 23 AGGREGATE BASE COURSES

### PART 1 GENERAL

- 1.1 SECTION INCLUDES
  - A. Aggregate base course.
  - B. Paving aggregates.

### 1.2 RELATED REQUIREMENTS

- A. Section 31 05 19 Geosynthetics for Earthwork.
- B. Section 31 22 00 Grading: Preparation of site for base course.
- C. Section 31 23 16.13 Trenching: Compacted fill over utility trenches under base course.
- D. Section 31 23 23 Fill: Topsoil fill at areas adjacent to aggregate base course.
- E. Section 31 23 23 Fill: Compacted fill under base course.
- F. Section 32 12 16 Asphalt Paving: Finish and binder asphalt courses.
- G. Section 32 13 13 Concrete Paving: Finish concrete surface course.
- H. Section 33 05 61 Concrete Manholes: Manholes including frames.

#### 1.3 PRICE AND PAYMENT PROCEDURES

A. See Section 01 22 00 - Unit Prices for general requirements applicable to unit prices for earthwork.

#### 1.4 REFERENCE STANDARDS

- A. AASHTO T 180 Standard Method of Test for Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18 in.) Drop; 2021, with Errata (2022).
- B. ASTM D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft3 (600 kN-m/m3)); 2012 (Reapproved 2021).
- C. ASTM D1556/D1556M Standard Test Method for Density and Unit Weight of Soil in Place by Sand-Cone Method; 2015, with Editorial Revision (2016).
- D. ASTM D1557 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3 (2,700 kN-m/m3)); 2012 (Reapproved 2021).
- E. ASTM D2167 Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method; 2015.
- F. ASTM D2487 Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System); 2017, with Editorial Revision (2020).
- G. ASTM D6938 Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth); 2017a, with Editorial Revision (2021).

#### 1.5 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

- B. Materials Sources: Submit name of imported materials source.
- C. Aggregate Composition Test Reports: Results of laboratory tests on proposed and actual materials used.
- D. Compaction Density Test Reports.

### PART 2 PRODUCTS

### 2.1 MATERIALS

- A. Coarse Aggregate: As specified in Section 31 23 23.
- B. Coarse Aggregate: Coarse aggregate, conforming to Department of Transportation Standards in the state of New York.
- C. Fine Aggregate : Sand; conforming to Department of Transportation Standards in the state of New York.
- D. Fine Aggregate: As specified in Section 31 23 23.
- E. Geotextile: Nonbiodegradable, woven.

### 2.2 SOURCE QUALITY CONTROL

- A. See Section 01 40 00 Quality Requirements for general requirements for testing and analysis of aggregate materials.
- B. Where aggregate materials are specified using ASTM D2487 classification, test and analyze samples for compliance before delivery to site.
- C. If tests indicate materials do not meet specified requirements, change material and retest.
- D. Provide materials of each type from same source throughout the Work.

### PART 3 EXECUTION

#### 3.1 EXAMINATION

- A. Verify that survey bench marks and intended elevations for the work are as indicated.
- B. Verify substrate has been inspected, gradients and elevations are correct, and is dry.

#### 3.2 PREPARATION

- A. Correct irregularities in substrate gradient and elevation by scarifying, reshaping, and re-compacting.
- B. Do not place aggregate on soft, muddy, or frozen surfaces.

#### 3.3 INSTALLATION

- A. Spread aggregate over prepared substrate to a total compacted thickness as indicated on Drawings.
- B. Place aggregate in maximum 4 inch layers and roller compact to specified density.

- C. Level and contour surfaces to elevations and gradients indicated.
- D. Add small quantities of fine aggregate to coarse aggregate as appropriate to assist compaction.
- E. Add water to assist compaction. If excess water is apparent, remove aggregate and aerate to reduce moisture content.
- F. Use mechanical tamping equipment in areas inaccessible to compaction equipment.

#### 3.4 TOLERANCES

- A. Flatness: Maximum variation of 1/4 inch measured with 10 foot straight edge.
- B. Scheduled Compacted Thickness: Within 1/4 inch.
- C. Variation From Design Elevation: Within 1/2 inch.

#### 3.5 FIELD QUALITY CONTROL

- A. See Section 01 40 00 Quality Requirements for general requirements for field inspection and testing.
- B. Compaction density testing will be performed on compacted aggregate base course in accordance with ASTM D1556/D1556M, ASTM D2167, or ASTM D6938.
- C. Results will be evaluated in relation to compaction curve determined by testing uncompacted material in accordance with AASHTO T 180, ASTM D698 ("standard Proctor"), or ASTM D1557 ("modified Proctor").
- D. If tests indicate work does not meet specified requirements, remove work, replace and retest.
- E. Frequency of Tests: 1 per 2500 sq. ft. or as required by the Engineer.
- F. Proof roll compacted aggregate at surfaces that will be under slabs-on-grade.

#### 3.6 CLEANING

- A. Leave unused materials in a neat, compact stockpile.
- B. Leave borrow areas in a clean and neat condition. Grade to prevent standing surface water.

### END OF SECTION





- GENERAL REQUIREMENTS:
- FOR BIDDING PURPOSES, PROSPECTIVE BIDDERS SHALL MAKE THEMSELVES FAMILIAR WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) THAT IS ON FILE AT THE OWNER'S OFFICE OR IT WILL OTHERWISE BE MADE AVAILABLE UPON REQUEST.
- THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REPORT DOCUMENT DEFINES AND MEETS THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) PHASE II STORMWATER REGULATIONS.
- ALL CONTRACTORS AND SUB-CONTRACTORS SHALL CERTIFY WITH THE SWPPP REPORT THAT THEY WILL IMPLEMENT AND MAINTAIN STORMWATER MANAGEMENT PRACTICES AND EROSION AND SEDIMENT CONTROL MEASURES AS SPECIFIED IN THE DOCUMENTS MENTIONED ABOVE.
- EROSION CONTROL MEASURES INSTALLED AND MAINTAINED BY THE SITE WORK CONTRACTOR ARE SUBJECT TO THE REVIEW AND APPROVAL BY THE NYSDEC. DESIGN ENGINEER AND OWNER'S REPRESENTATIVE. IMMEDIATE ACTION BY THE CONTRACTOR SHALL BE TAKEN IF ADDITIONAL OR CORRECTIVE MEASURES ARE REQUIRED BY ANY ONE OF THESE CITED REVIEWERS. EROSION CONTROL MEASURES NOT SPECIFICALLY SHOWN ON CONTRACT DRAWINGS, SHALL BE INSTALLED AS WARRANTED BY FIELD CONDITIONS AND AS DIRECTED BY THE AFOREMENTIONED REVIEWERS.
- AS DESIGN ENGINEER, OUR OFFICE HAS NOTIFIED THE OWNER OF THE INSPECTION REQUIREMENTS UNDER THE GENERAL PERMIT. DISTURBANCES OF ONE ACRE OR GREATER REQUIRE THAT THE OWNER FILE A NOTICE OF INTENT AND A SWPPP WITH THE NYSDEC UNDER STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES). THE REGULATIONS REQUIRE THAT A "CERTIFIED INSPECTOR" OR " LICENSED PROFESSIONAL" COMPLETE A WEEKLY INSPECTION THROUGHOUT THE PERIOD OF LAND DISTURBANCE OR TWO (2) INSPECTIONS EVERY WEEK IF GREATER THAN 5 ACRES IS DISTURBED AT ANY ONE TIME.
- II. EROSION & SEDIMENT POLLUTION CONTROL (E & SPC) GUIDELINES:
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION AND SEDIMENT CONTROL TO PROTECT DOWNSTREAM WATER BODIES.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION CONTROL AND MAINTENANCE OF SOIL EROSION AND SEDIMENT CONTROL FACILITIES TO ENSURE PROPER FUNCTIONING OF SAID FACILITIES (DURING CONSTRUCTION).
- AFTER THE PROJECT HAS BEEN COMPLETED, THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR ENSURING THAT ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED OR REPLACED BY PERMANENT CONTROLS.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR MORE THAN FIVE (5) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL, AT A RATE OF 2.5 - 3.0 TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- 5. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN FIVE (5) DAYS AFTER FINAL GRADING. MULCH AS NECESSARY FOR SEED PROTECTION AND ESTABLISHMENT. LIME AND FERTILIZE SEED BED PRIOR TO PERMANENT SEEDING.
- EROSION AND SEDIMENT POLLUTION CONTROL FACILITIES AND PRACTICES, UTILIZED IN THE CONSTRUCTION OF THE PROJECT, SHALL BE CONSISTENT WITH THE LATEST VERSIONS OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL AND THE NEW YORK STATE SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES.
- 7. NATURAL VEGETATION SHALL BE RETAINED, PROTECTED, AND SUPPLEMENTED, AS FEASIBLE PRIOR TO AND DURING CONSTRUCTION.
- 8. CUT AND FILL SLOPES SHALL BE BROUGHT TO FINAL PROPOSED GRADES AS SOON AS POSSIBLE IN THE CONSTRUCTION SEQUENCES, AND SEEDED AND MULCHED IMMEDIATELY.
- 9. EROSION AND SEDIMENT POLLUTION CONTROL FACILITIES (SILT SOCK, INLET PROTECTION. STABILIZED CONSTRUCTION ENTRANCES AND ALL OTHER ACCEPTABLE FACILITIES) SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL COMPLETE SITE STABILIZATION.
- 10. HEAVY CONSTRUCTION EQUIPMENT SHALL BE KEPT AS CLOSE TO THE WORK AREA AS PRACTICAL TO MINIMIZE DISTURBANCE OF SOIL ALREADY STABILIZED OR UNDISTURBED.
- 11. TOPSOIL AND OTHER SOIL REMOVED DURING CONSTRUCTION SHALL BE STOCKPILED IN A SUITABLE LOCATION CLEAR FROM ANY STORMWATER DRAINAGE COURSES. STOCKPILES WHICH ARE INACTIVE FOR MORE THAN 5 DAYS SHALL BE SEEDED.
- 12. VEGETATIVE STABILIZATION SHALL BE PERIODICALLY INSPECTED FOR SUFFICIENT GROWTH AND PROGRESS. AREAS NOT RESPONDING SHALL BE PROMPTLY RESERVED AND REMULCHED AS SOON AS POSSIBLE. AREAS SHOWING SIGNS OF EROSION PRIOR TO STABILIZATION SHALL BE GRADED, RESEEDED, AND REMULCHED AS SOON AS POSSIBLE. SOD OR EROSION CONTROL FABRIC SHALL BE UTILIZED WHERE ADEQUATE STABILIZATION IS NOT OCCURRING
- 13. ALL PERIMETER SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BEFORE BEGINNING EARTH MOVING ACTIVITIES, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- 14. A STABILIZED CONSTRUCTION ENTRANCE PAD OF 1.5" TO 2" CLEAN STONE WILL BE PLACED AT ALL CONSTRUCTION DRIVEWAYS BEFORE INITIAL SITE DISTURBANCE.
- 15. THE APPLICATION OF TOPSOIL, LIMING, FERTILIZING, SEEDING, AND MULCHING FOR DISTURBED AREAS SHALL BE CONSISTENT WITH THE STANDARD GENERAL PRACTICES FOR CONSTRUCTION.
- 16. IMMEDIATELY FOLLOWING INITIAL DISTURBANCES OF ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E., STEEP SLOPES AND ROADWAY EMBANKMENTS, ETC.) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 2.5 - 3.0 TONS PER ACRE.
- 17. AT THE TIME WHEN SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS TO BE ESTABLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER.
- 18. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- 19. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES UNTIL ALL CONTRIBUTING AREAS HAVE BEEN PERMANENTLY STABILIZED.

- III. MAINTENANCE AND REPAIR OF EROSION AND SEDIMENT FACILITIES
- 1. PROPER MAINTENANCE AND REPAIR OF EROSION AND SEDIMENT CONTROL FACILITIES ARE NECESSARY TO THE EFFECTIVENESS OF THE EROSION AND SEDIMENT POLLUTION CONTROL FACILITIES.
- 2. DISTURBED GROUND SURFACES SHALL BE SPRINKLED WITH WATER AND/OR CARBON CHLORIDE, AS NEEDED, TO LIMIT THE FORMATION AND MIGRATION OF AIRBORNE DUST.
- 3. OPERATIONAL MEASURES SHALL BE EMPLOYED DURING CONSTRUCTION TO PREVENT THE SPILLS OF FUELS AND LUBRICANTS. IF A SPILL OCCURS, IT SHALL BE CONTROLLED IMMEDIATELY TO PREVENT ITS ENTRY INTO OFF-SITE AREAS INCLUDING ADJACENT STORM SEWER.
- 4. ANY TEMPORARY EROSION CONTROL FACILITY SHALL REMAIN FUNCTIONAL UNTIL VEGETATIVE COVER IS SUFFICIENTLY ESTABLISHED WITHIN THE RESPECTIVE TRIBUTARY DRAINAGE AREA.
- 5. ANY DEBRIS ACCUMULATED IN EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE REMOVED AND PROPERLY DISPOSED OF. THESE FACILITIES SHALL BE CHECKED DAILY AND AFTER RAINFALL EVENTS, AND REALIGNED AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES THE FOLLOWING DEPTHS:

SILT SOCK -1/2 HEIGHT

NOTE: DISTURBED AREAS SHALL BE CONSIDERED AS PERMANENTLY STABILIZED WHEN A MINIMUM COVER OF 80% HAS BEEN ESTABLISHED.

6. ANY EROSION AND SEDIMENT CONTROL DEVICES THAT ARE NOTED AS DEFICIENT BY AN INSPECTOR OR NYSDEC STAFF SHALL BE REPAIRED OR REPLACED WITHIN 24 HOURS OF RECEIVING NOTICE.

### IV. SOIL RESTORATION REQUIREMENTS

- AERATION AND THE APPLICATION OF 6 INCHES OF TOPSOIL IS REQUIRED IN ANY PROPOSED LAWN AREA WHERE TOPSOIL HAS BEEN DISTURBED.
- 2. FULL SOIL RESTORATION IS REQUIRED IN HEAVY TRAFFIC AREAS ON SITE, ESPECIALLY BETWEEN 5 AND 25 FEET AROUND THE PROPOSED BUILDING, BUT NOT WITHIN A 5 FOOT PERIMETER AROUND FOUNDATION WALLS. RESTORATION IS ALSO REQUIRED ON REDEVELOPMENT PROJECTS IN AREAS WHERE EXISTING IMPERVIOUS AREA WILL BE CONVERTED TO PERVIOUS AREA.

3. FULL SOIL RESTORATION REQUIREMENTS ARE AS FOLLOWS:

- SOIL RESTORATION IS TO TAKE PLACE DURING PERIODS OF RELATIVELY LOW TO MODERATE SUBSOIL MOISTURE, FOLLOWING ROUGH GRADING OF THE DISTURBED SUBSOILS
- APPLY 3 INCHES OF COMPOST OVER SUBSOIL
- TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR-MOUNTED DISC, OR TILLER, MIXING, AND
- CIRCULATING AIR AND COMPOST INTO SUBSOILS - ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND
- LARGER SIZE ARE CLEANED OFF THE SITE - APPLY TOPSOIL TO A DEPTH OF 6 INCHES
- VEGETATE AS SPECIFIED ON PLANS
- 4. AT THE END OF THE PROJECT AN INSPECTOR SHOULD BE ABLE TO PUSH A 3/8 INCH METAL BAR 12 INCHES INTO THE SOIL JUST WITH BODY WEIGHT.
- 5. TILLING SHOULD NOT BE PERFORMED WITHIN THE DRIP LINE OF ANY EXISTING TREES OR OVER UTILITY INSTALLATIONS THAT ARE WITHIN 24 INCHES OF THE SURFACE.
- 6. ADDITIONAL INFORMATION AND GUIDANCE MAY BE FOUND IN "DEEP-RIPPING AND DECOMPACTION" PUBLISHED BY NYSDEC DIVISION OF WATER 2008.

V. MULCHING AND SEEDING REQUIREMENTS

1. SEEDBED PREPARATION:

- a. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT (50%) CALCIUM PLUS MAGNESIUM OXIDES) AT A RATE OF 90 POUNDS PER 1,000 SQUARE FEET. APPLY FERTILIZER AT A RATE OF 600 POUNDS PER ACRE OR 14 POUNDS PER 1,000 SQUARE FEET USING 10-20-10 OR EQUIVALENT.
- b. WORK LIME AND FERTILIZER INTO SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC. SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED IS PREPARED.
- c. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACT, THE AREA MUST BE RETILLED AS ABOVE

TEMPORARY REQUIREMENTS

### 2. SEEDING:

- a. APPLY LAWN MIX AT A RATE (SEE SPECIFICATIONS)
- b. APPLY SEED WITH MECHANICAL SEEDER. OPTIMUM SEEDING DEPTH IS ONE INCH (EXCEPT SANDY SOILS, 2 INCHES).
- c. WHERE FEASIBLE, EXCEPT WHERE EITHER A CULTIPAKER TYPE SEEDER OR HYDROSEEDER IS USED. THE SEEDBED SHALL BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG. SEEDING OPERATIONS SHOULD BE ON THE CONTOUR.

### 3. MULCHING

- a. MULCH MATERIALS SHALL BE UNROTTED SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 2-1/2 TO 3 TONS PER ACRE, OR 70 TO 90 POUNDS PER 1,000 SQUARE FEET. MULCH SHOULD NOT BE GROUND OR CHOPPED INTO SHORT PIECES.
- b. SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75 PERCENT TO 95 PERCENT OF THE SOIL SURFACE WILL BE COVERED.
- c. MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. 1. MULCHING NETTINGS - STAPLE, JUTE OR COTTON NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
- 4. PERMANENT SEEDING TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

## VI. SEQUENCE OF CONSTRUCTION

- - 3. FREE OF ROOTS, ROCKS LARGER THAN 1/2 INCH, SUBSOIL, DEBRIS, LARGE WEEDS AND FOREIGN MATTER.

B. IMPORTED TOPSOIL

- 1. IMPORTED BORROW. 2. FRIABLE LOAM.
- 3. REASONABLY FREE OF ROOTS. ROCKS LARGER THAN 1/2 INCH. SUBSOIL, DEBRIS. LARGE WEEDS, AND FOREIGN MATTER.
- a. SCREENING: DOUBLE SCREENED.
- 4. ACIDITY RANGE (PH) OF 5.5 TO 7.5 5. CONTAINING MINIMUM OF 4 PERCENT AND MAXIMUM OF 25 PERCENT INORGANIC
- MATTER. 6. CONFORMING TO ASTM D2487.
- 7. LIMIT DECAYING MATTER TO 5 PERCENT OF TOTAL CONTENT BY VOLUME.

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE OF CONSTRUCTION ACTIVITIES. EACH STAGE SHALL BE COMPLETED BEFORE A SUBSEQUENT STAGE IS INITIATED. UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY, OR AND STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING. ALSO, AT LEAST THREE (3) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL CONTACT "DIG SAFELY NEW YORK" AT (800) 962-7962 TO LOCATE BURIED UTILITIES AND NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION OF THE INTENT TO BEGIN WORK.

CONSTRUCTION SEQUENCE:

EACH STAGE OF THE CONSTRUCTION SEQUENCE MUST BE COMPLETED PRIOR TO INITIATION OF A SUBSEQUENT STAGE.

- ALL CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE PROJECT SITE THROUGH A ROCK CONSTRUCTION ENTRANCE.
- > REFER TO TRENCH EXCAVATION NOTES FOR ALL TRENCHING OPERATIONS.
- > A PUMPED WATER FILTER BAG SHALL BE UTILIZED TO DEWATER EXCAVATIONS AS NEEDED. MAINTAIN PUMPED WATER FILTER BAG ON-SITE TO DEWATER TRENCHES AS NECESSARY. FILTER BAGS MUST DISCHARGE TO AN INLET, OR TO A WELL VEGETATED AREA AT A GRADE OF LESS THAN 5%.

THE FOLLOWING ARE STEPS REGARDING THE CONSTRUCTION AND INSTALLATION OF VARIOUS PROJECT COMPONENTS THAT WILL ASSIST IN THE CONTROL OF EROSION AND SEDIMENT CONTROL. AT NO POINT THROUGHOUT CONSTRUCTION SHALL GREATER THAN FIVE (5) ACRES OF THE SITE BE DISTURBED AT THE SAME TIME:

- 1. CONTRACTOR SHALL REVIEW AND SIGN/CERTIFY THE SWPPP DOCUMENTATION. A COPY OF THE CERTIFIED SWPPP SHALL BE RETAINED AT THE PROJECT SITE THROUGHOUT THE DURATION OF THE PROJECT
- 2. A FIELD MEETING SHALL BE CONDUCTED WITH THE SWPPP INSPECTOR AND THE CONTRACTOR IN CHARGE OF EROSION AND SEDIMENT CONTROL MEASURES.
- INSTALL PROTECTION MEASURES WHERE NEEDED (SILT SOCK, STORM INLET PROTECTION, ETC.).
- 4. COMPLETE ANY NECESSARY ROUGH GRADING WITH E&SC CONTROL MEASURES AS SHOWN ON PLANS. TEMPORARILY STABILIZE ALL DISTURBED AREAS.
- 6. INSTALL UTILITY STRUCTURES AND PIPES. INLET PROTECTION SHOULD ALREADY BE IN PLACE.
- 7. INSTALL ANY PAVEMENT RESTORATION AND ALL OTHER PROPOSED SITE IMPROVEMENTS.
- 8. PROVIDE PERMANENT VEGETATION ON ALL DISTURBED AREAS.
- 9. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS ONCE 80% STABILIZATION HAS BEEN ACHIEVED.
- 10. CONTRACTOR SHALL NOTIFY PROJECT DESIGN ENGINEER/ARCHITECT THAT SITE STABILIZATION IS COMPLETED, AND THE SWPPP REPORT IS THEN TO BE REMOVED FROM THE SITE AND NOTICE OF TERMINATION SHOULD BE CONSIDERED.

NOTE: AT NO POINT DURING CONSTRUCTION SHALL GREATER THAN 5 ACRES OF THE PROJECT SITE BE DISTURBED AT ANY ONE TIME WITHOUT PRIOR APPROVAL OF A 5-ACRE WAIVER FORM THE NYSDEC.

### TRENCH EXCAVATION NOTES:

- 1. EXCAVATED MATERIAL SHOULD BE INCORPORATED AS FILL OR REMOVED FROM THE SITE TO AN APPROVED DISPOSAL LOCATION.
- 2. BACKFILL AND STABILIZE TRENCHES AT THE END OF EACH WORK DAY. STABILIZE WITH SUB-BASE MATERIAL IN PAVEMENT AREAS AND WITH SEED AND MULCH IN VEGETATED AREAS.
- MAINTAIN PUMPED WATER FILTER BAGS ON-SITE TO DEWATER TRENCHES AS NECESSARY. FILTER BAGS MUST DISCHARGE TO AN INLET OR TO A WELL VEGETATED AREA AT A GRADE OF LESS THAN 5%.

VII. TOPSOIL REQUIREMENTS

- A. ON-SITE TOPSOIL:
- 1. EXCAVATED AND REUSED MATERIAL
- 2. GRADED.
- a. SCREENING: SINGLE SCREENED.
- CONFORMING TO ASTM D2487

DRAWN B CHECKEE DATE: PHASE:	IY: DBY: ISS	04/30/2 UE FOR	025 BID	Copyright: 2025
# DATE: DESCRIPTION OF REVISION:			"IT IS A VIOLATION OF THE LAW FOR ANY PERSON TO MAKE UNAUTHORIZED ALTERATIONS OR ADDITIONS TO PLANS BEARING A LICENSED ENGINEER'S,	ARCHITECT'S OR SURVEYOR'S SEAL."
	HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7950 HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7950 TOWANDA, PA 570 - 265 - 4868 BINGHAMTON, NY 607 - 798 - 8081 ALBANY, NY 607 - 798 - 8081 WWW.HUNT-EAS.COM NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131464-1			
<b>EROSION &amp; SEDIMENT CONTROL DETAILS</b>	SEWER DISTRICT No. 8 IMPROVEMENTS	TOWN OF BATH	110 LIBERTY STREET, SUITE 107 BATH, NY 14810	
C7.1 PROJECT NO: 0392-030				

### NOTES:

INSTALLATION: ON CENTER.

WATTLES ON SLOPES, DRIVE THE STAKES PERPENDICULAR TO THE SLOPE.

ORDER TO HELP ABUT THEM TIGHTLY TOGETHER.

### INSTALLATION NOTES:

- 3. OR COMPOST
- NOT FOR USE IN CONCENTRATED FLOW AREAS.
- TO PREVENT PONDING AT THE MID SECTION.
- 9. ENOUGH TO PROTRUDE SEVERAL INCHES ABOVE THE WATTLE.

### AINTENANCE

ACCUMULATED TO ONE-HALF THE DIAMETER OF THE WATTLE.

COMPOST OR SILT SOCK INSTALLATION DETAIL SCALE: N.T.S



1. ALL TOOLS AND EQUIPMENT UTILIZED DURING ANY CONCRETE CONSTRUCTION, INCLUDING HAND TOOLS, WHEELBARROWS, TRUCKS, CHUTES SHALL UTILIZE THE CONCRETE WASHOUT AREA.

2. WASHOUT AREA TO BE MAINTAINED AND CLEANED OUT PERIODICALLY TO PREVENT WASHWATER AND/OR SOLIDS FROM EXITING THE WASHOUT TRAP.

CONCRETE WASH OUT DETAIL



SCALE: N.T.S.







PROJECT NO: 0392-030