

VILLAGE OF HOFFMAN ESTATES
NOTICE TO BID

The Village of Hoffman Estates is soliciting bids, as described in these documents, for:

Community Park Pond Restoration Project

Sealed bids will be received at the Office of the Village Clerk of the Village of Hoffman Estates (1900 Hassell Road) Cook County, Illinois, until **October 14th, 2026 at 9:00 AM**. All bids will be publicly opened immediately thereafter.

It is the responsibility of the bidder to meet the specified opening time; and any bid not so received will be returned unopened. Bids must be identified as such on the outside of the sealed envelope. This can be done by marking the envelope "SEALED BID" and with the following information:

Company's Name
Company Address
Name of Bid ("Community Park Pond Restoration Project")
Date and Time of Bid Opening

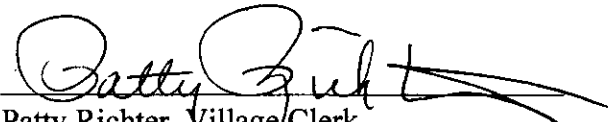
Plans and proposal forms are available for download from the Village of Hoffman Estates website at www.hoffmanestates.org/business/bids.php beginning September 21st, 2026. Further information regarding this bid may be obtained by contacting the Engineering Department at construction@vohe.org or 847.252.5800.

Mandatory pre-bid conference to be held at 925 Grand Canyon Street on October 6th, 2026 at 10:30 AM.

The Village reserves the right to reject and/or award any and all bids, or parts thereof, and to waive formalities and technicalities according to the best interest of the Village.

By the Order of the President and Board of Trustees of the Village of Hoffman Estates.

September 16, 2026
Date


Patty Richter, Village Clerk

TO BE PUBLISHED ON September 21, 2026 PADDOCK PUBLICATIONS
(Date)



COVER SHEET

Proposal Submitted By:

Contractor's Name

Contractor's Address

City

State

Zip Code

STATE OF ILLINOIS

Local Public Agency

Village of Hoffman Estates

County

Cook

Section Number

23706

Route(s) (Street/Road Name)

925 Grand Canyon Parkway

Type of Funds

IEPA/Local

☐ Proposal Only ☐ Proposal and Plans ☒ Proposal only, plans are separate

Submitted/Approved

For Local Public Agency:

For a County and Road District Project

Submitted/Approved

Highway Commissioner Signature & Date

Submitted/Approved

County Engineer/Superintendent of Highways Signature & Date

For a Municipal Project

Submitted/Approved/Passed

Signature & Date

Official Title

Department of Transportation

Released for bid based on limited review

Regional Engineer Signature & Date

Note: All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Hoffman Estates	Cook	23706	925 Grand Canyon Parkway

NOTICE TO BIDDERS

Sealed proposals for the project described below will be received at the office of the Village Clerk

<u>1900 Hassell Road, Hoffman Estates, IL 60169</u>	until <u>9:00 AM</u>	on <u>10/14/26</u>
Address	Time	Date

Sealed proposals will be opened and read publicly at the office of the Frank Alexa Training Room

<u>1900 Hassell Road, Hoffman Estates, IL 60169</u>	at <u>9:00 AM</u>	on <u>10/14/26</u>
Address	Time	Date

DESCRIPTION OF WORK

Location	Project Length
925 Grand Canyon Parkway	

Proposed Improvement

Pond shoreline stabilization, grading of shoreline slopes, wetland restoration, native plantings, and incidentals.

1. Plans and proposal forms will be available in the office of

Plans and proposals are available to download from the Village of Hoffman Estates website at www.hoffmanestates.org/business/bids.php beginning on September 21st, 2026. Mandatory pre-bid conference to be held at 925 Grand Canyon Parkway on October 6th, 2026 at 10:30 AM.

2. ☐ Prequalification

If checked, the 2 apparent as read low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57) in triplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One original shall be filed with the Awarding Authority and two originals with the IDOT District Office.

3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals.

4. The following BLR Forms shall be returned by the bidder to the Awarding Authority:

- Local Public Agency Formal Contract Proposal (BLR 12200)
- Schedule of Prices (BLR 12201)
- Proposal Bid Bond (BLR 12230) (if applicable)
- Apprenticeship or Training Program Certification (BLR 12325) (do not use for project with Federal funds.)
- Affidavit of Illinois Business Office (BLR 12326) (do not use for project with Federal funds)

5. The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as hereinafter provided.

6. Submission of a bid shall be conclusive assurance and warranty the bidder has examined the plans and understands all requirements for the performance of work. The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in depth examination. The Awarding Authority will, in no case, be responsible for any costs, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.

7. The bidder shall take no advantage of any error or omission in the proposal and advertised contract.

8. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Agency and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the Notice to Bidders. Proposals received after the time specified will be returned to the bidder unopened.

9. Permission will be given to a bidder to withdraw a proposal if the bidder makes the request in writing or in person before the time for opening proposals.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Hoffman Estates	Cook	23706	925 Grand Canyon Parkway

PROPOSAL

1. Proposal of _____

Contractor's Name

Contractor's Address
2. The plans for the proposed work are those prepared by Living Waters Consultants
and approved by the Department of Transportation on _____.
3. The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the "Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.
4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.
5. The undersigned agrees to complete the work within _____ working days or by 08/16/27 unless additional time is granted in accordance with the specifications.
6. The successful bidder at the time of execution of the contract Will be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond of check shall be forfeited to the Awarding Authority.
7. Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the products of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price. A bid may be declared unacceptable if neither a unit price nor a total price is shown.
8. The undersigned submits herewith the schedule of prices on BLR 12201 covering the work to be performed under this contract.
9. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12201, the work shall be in accordance with the requirements of each individual proposal for the multiple bid specified in the Schedule for Multiple Bids below.
10. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. Bid Bonds Will be allowed as a proposal guaranty. Accompanying this proposal is either a bid bond, if allowed, on Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to: Village of Hoffman Estates Treasurer of _____.
The amount of the check is _____ (_____).

Attach Cashier's Check or Certified Check Here

In the event that one proposal guaranty check is intended to cover two or more bid proposals, the amount must be equal to the sum of the proposal guaranties which would be required for each individual bid proposal. If the proposal guaranty check is placed in another bid proposal, state below where it may be found.

The proposal guaranty check will be found in the bid proposal for: Section Number _____.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Hoffman Estates	Cook	23706	925 Grand Canyon Parkway

CONTRACTOR CERTIFICATIONS

The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder.

1. **Debt Delinquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedure established by the appropriate Revenue Act, its liability for the tax or the amount of the tax. Making a false statement voids the contract and allows the Department to recover all amounts paid to the individual or entity under the contract in a civil action.
2. **Bid-Rigging or Bid Rotating.** The bidder or contractor or subcontractor, respectively, certifies that it is not barred from contracting with the Department by reason of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

A violation of section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense, or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent on behalf of the corporation.

A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State or Local government. No corporation shall be barred from contracting with any unit of State or Local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent on behalf of the corporation.

3. **Bribery.** The bidder or contractor or subcontractor, respectively, certifies that, it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois or any unit of local government, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.
4. **Interim Suspension or Suspension.** The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart I of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be canceled.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Hoffman Estates	Cook	23706	925 Grand Canyon Parkway

SIGNATURES

(If an individual)

Bidder Signature & Date

--

Business Address

--

City

State

Zip Code

--

--

--

(If a partnership)

Firm Name

--

Signature & Date

--

Title

--

Business Address

--

City

State

Zip Code

--

--

--

Insert the Names and Addresses of all Partners

--

(If a corporation)

Corporate Name

--

Signature & Date

--

Title

--

Business Address

--

City

State

Zip Code

--

--

--

Insert Names of Officers

President

--



Contractor's Name

Contractor's Address

City

State

Zip Code

Local Public Agency

County

Section Number

Route(s) (Street/Road Name)

Schedule for Multiple Bids

Combination Letter	Section Included in Combinations	Total

Schedule for Single Bid

(For complete information covering these items, see plans and specifications.)

Item Number	Items	Unit	Quantity	Unit Price	Total
	ROCK TOE	LF	65		
	RE-SHAPE SLOPE - LOW BAN	LF	885		
	CONVERT TO VEG RIPRAP	LF	30		
	SEDIMENT FOREBAY	CY	500		
	ROCK RIFFLE (2 STRUCTURE	TON	54		
	STREAMBED EXCAVATE	LF	175		
	SHORELINE NATIVE SEED	ACRE	0.17		
	MIDDLE/UPPER SEED	ACRE	0.72		
	WETLAND SEED	ACRE	1.36		
	SHORELINE PLUGS	EACH	756		
	MIDDLE/UPPER PLUGS	EACH	3492		
	WETLAND PLUGS	EACH	2376		
	TREES 2.5-IN. DIAM.	EACH	25		
	RE-SHAPE SLOPE - TALL BA	LF	661		
	PRE-CONSTRUCTION VIDEO	LS	1		
	PROJECT SIGN	EACH	2		
	RIPRAP - GULLY STABILIZATI	TON	6		
28100109	STONE RIPRAP, A4, OUTLET	TON	1		
28100111	STONE RIPRAP, A6, OUTLET	TON	1		
2810109	STONE RIPRAP, A5, OUTLET	TON	3		

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Hoffman Estates	Cook	23706	925 Grand Canyon Pkwy

Item Number	Items	Unit	Quantity	Unit Price	Total
28100107	STONE RIPRAP, A4 AT INLET	TON	2		
28100111	STONE RIPRAP, A6 AT INLET	TON	3		
28100109	STONE RIPRAP, A5 AT INLET	TON	3		
	OUTLET MODIFICATION PER	LS	1		
67100100	MOBILIZATION	LS	1		
	CABLED LOG HABITAT	EACH	5		
	CLEAR / GRUB/ HERBICIDE	LS	1		
	TREE-SHRUB REMOVAL	LS	1		
	NATIVE SHRUBS 5-GALLON	EACH	50		
Z0013796	STABIL CONSTR ENTRANCE	LS	1		
	REM & DISP FENCE	LF	700		
Z0055905	TEMP CONSTRUCTION FENC	LF	1000		
	PERIMETER EROSION BARRI	LF	400		
	SWCD PERMIT SIGNOFF	LS	1		
	EROSION CONTROL	LS	1		
	NATIVE PLANT MAINT	YEAR	3		
	SITE RESTORATION	LS	1		
	TRAFFIC CONTROL	LS	1		
	SWPPP REPORTING	LS	1		
	ANNUAL USACE MONITORIN	YEAR	3		
20201200	REM & DISP UNSUIT MAT'L	CY	40		
20101350	TREE PRUNING (OVER 10 IN)	EACH	15		
20101300	TREE PRUNING (4 TO 10 IN)	EACH	12		
20101200	TREE ROOT PRUNING	EACH	20		
HE442060	CLASS D PATCH, SPL, 6"	SY	60		
42400200	PCC PAV'T, 8" (JOINTED)	SF	225		
32000301	PCC SIDEWALK, 5"	SY	60		
44000198	HMA SURF RMVL VAR DEP	SY	60		
	AS-BUILT DRAWINGS	LS	1		
Bidder's Total Proposal					

1. Each pay item should have a unit price and a total price.
2. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern.
3. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
4. A bid may be declared unacceptable if neither a unit price or total price is shown.

Attest:

Secretary

Secretary

Treasurer



Local Public Agency	County	Section Number
Village of Hoffman Estates	Cook	23706

WE, _____ as PRINCIPAL, and
_____ as SURETY, are held jointly,

severally and firmly bound unto the above Local Public Agency (hereafter referred to as "LPA") in the penal sum of 5% of the total bid price, or for the amount specified in the proposal documents in effect on the date of invitation for bids, whichever is the lesser sum. We bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly pay to the LPA this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said PRINCIPAL is submitting a written proposal to the LPA acting through its awarding authority for the construction of the work designated as the above section.

THEREFORE if the proposal is accepted and a contract awarded to the PRINCIPAL by the LPA for the above designated section and the PRINCIPAL shall within fifteen (15) days after award enter into a formal contract, furnish surety guaranteeing the faithful performance of the work, and furnish evidence of the required insurance coverage, all as provided in the "Standard Specifications for Road and Bridge Construction" and applicable Supplemental Specifications, then this obligation shall become void; otherwise it shall remain in full force and effect.

IN THE EVENT the LPA determines the PRINCIPAL has failed to enter into a formal contract in compliance with any requirements set forth in the preceding paragraph, then the LPA acting through its awarding authority shall immediately be entitled to recover the full penal sum set out above, together with all court costs, all attorney fees, and any other expense of recovery.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this _____ of _____
Day Month and Year

Principal

Company Name

Signature & Date

By:

Title

Company Name

Signature & Date

By:

Title

(If Principal is a joint venture of two or more contractors, the company names, and authorized signatures of each contractor must be affixed.)

Surety

Name of Surety

Signature of Attorney-in-Fact Signature & Date

By:

STATE OF IL

COUNTY OF

I _____, a Notary Public in and for said county do hereby certify that

(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instruments as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____
Day Month and Year

(SEAL, if required by the LPA)

Notary Public Signature & Date

Date commission expires _____

Local Public Agency

County

Section Number

Village of Hoffman Estates

Cook

23706

ELECTRONIC BID BOND

☐ **Electronic bid bond is allowed (box must be checked by LPA if electronic bid bond is allowed)**

The Principal may submit an electronic bid bond, in lieu of completing the above section of the Proposal Bid Bond Form. By providing an electronic bid bond ID code and signing below, the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the LPA under the conditions of the bid bond as shown above. (If PRINCIPAL is a joint venture of two or more contractors, an electronic bid bond ID code, company/Bidder name title and date must be affixed for each contractor in the venture.)

Electronic Bid Bond ID Code

--	--	--	--	--	--	--	--	--	--	--	--	--

Company/Bidder Name

--

Signature & Date

--

Title

--



Local Public Agency	County	Street Name/Road Name	Section Number
Village of Hoffman Estates	Cook	925 Grand Canyon Pkwy	23706

All contractors are required to complete the following certification

- ☒ For this contract proposal or for all bidding groups in this deliver and install proposal.
- ☐ For the following deliver and install bidding groups in this material proposal.

--

Illinois Department of Transportation policy, adopted in accordance with the provisions of the Illinois Highway Code, requires this contract to be awarded to the lowest responsive and responsible bidder. The award decision is subject to approval by the Department. In addition to all other responsibility factors, this contract or deliver and install proposal requires all bidders and all bidder's subcontractors to disclose participation in apprenticeship or training programs that are (1) approved by and registered with the United States Department of Labor's Bureau of Apprenticeship and Training, and (2) applicable to the work of the above indicated proposals or groups. Therefore, all bidders are required to complete the following certification:

1. Except as provided in paragraph 4 below, the undersigned bidder certifies that it is a participant, either as an individual or as part of a group program, in an approved apprenticeship or training program applicable to each type of work or craft that the bidder will perform with its own employees.
2. The undersigned bidder further certifies, for work to be performed by subcontract, that each of its subcontractors either (A) is, at the time of such bid, participating in an approved, applicable apprenticeship or training program; or (B) will, prior to commencement of performance of work pursuant to this contract, establish participation in an approved apprenticeship or training program applicable to the work of the subcontract.
3. The undersigned bidder, by inclusion in the list in the space below, certifies the official name of each program sponsor holding the Certificate of Registration for all of the types of work or crafts in which the bidder is a participant and that will be performed with the bidder's employees. Types of work or craft that will be subcontracted shall be included and listed as subcontract work. The list shall also indicate any type of work or craft job category for which there is no applicable apprenticeship or training program available.

--

4. Except for any work identified above, if any bidder or subcontractor shall perform all or part of the work of the contract or deliver and install proposal solely by individual owners, partners or members and not by employees to whom the payment of prevailing rates of wages would be required, check the following box, and identify the owner/operator workforces and positions of ownership. ☐

--

The requirements of this certification and disclosure are a material part of the contract, and the contractor shall require this certification provision to be included in all approved subcontracts. The bidder is responsible for making a complete report and shall make certain that each type of work or craft job category that will be utilized on the project is accounted for and listed. The Department at any time before or afterward may require the production of a copy of each applicable Certificate of Registration issued by the United States Department of Labor evidencing such participation by the contractor and any or all of its subcontractors. In order to fulfill the participation requirement, it shall not be necessary that any applicable program sponsor be currently taking or that it will take applications for apprenticeship, training or employment during the performance of the work of this contract or deliver and install proposal.

Bidder	Signature & Date		
Title			
Address	City	State	Zip Code



Affidavit of Illinois Business Office

Local Public Agency	County	Street Name/Road Name	Section Number
Village of Hoffman Estates	Cook	925 Grand Canyon Pkwy	23706

I, _____ of _____, _____,
Name of Affiant City of Affiant State of Affiant
being first duly sworn upon oath, state as follows:

1. That I am the _____ of _____.
Officer or Position Bidder
2. That I have personal knowledge of the facts herein stated.
3. That, if selected under the proposal described above, _____, will maintain a business office in the
Bidder
State of Illinois, which will be located in _____ County, Illinois.
County
4. That this business office will serve as the primary place of employment for any persons employed in the construction contemplated by this proposal.
5. That this Affidavit is given as a requirement of state law as provided in Section 30-22(8) of the Illinois Procurement Code.

Signature & Date

--

Print Name of Affiant

--

Notary Public

State of IL

County _____

Signed (or subscribed or attested) before me on _____ by
(date)

_____, authorized agent(s) of
(name/s of person/s)

Bidder

Notary Public Signature & Date

--

(SEAL)

My commission expires _____



Check Sheet for Recurring Special Provisions

Local Public Agency

County

Section Number

Village of Hoffman Estates

Cook

23706

☐ Check this box for lettings prior to 01/01/2026

The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Recurring Special Provisions

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The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Local Roads And Streets Recurring Special Provisions

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INDEX FOR SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2026

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction
(Adopted 1-1-22) (Revised 1-1-26)

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RECURRING SPECIAL PROVISIONS

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VILLAGE OF HOFFMAN ESTATES
COMMUNITY PARK POND RESTORATION PROJECT

SPECIAL PROVISIONS

The following Special Provisions supplement the “Standard Specifications for Road and Bridge Construction”, adopted January 1, 2022 (hereinafter referred to as the “Standard Specifications”), the latest edition of the “Manual on Uniform Traffic Control Devices for Streets and Highways”, and the “Manual of Test Procedures of Materials” in effect on the date of invitation of bids, and the “Supplemental Specifications and Recurring Special Provisions” indicated on the Check Sheet included herein, which apply to and govern the construction Section No. 23706, in Hoffman Estates, Cook County, and in case of conflict with any part, or parts, of said specifications, the said Special Provisions shall take precedence and shall govern.

DEFINITION

When referring to the "Department" or "State" in all IDOT Specifications and Special Provisions, the Contractor should be aware that this also means the Village of Hoffman Estates, its agents and/or representatives.

PROJECT DESCRIPTION

The improvements included in this Contract consist of furnishing all of the materials, labor and equipment required for pond shoreline stabilization, grading of shoreline slopes, wetland restoration, rock riffle construction, sediment forebay excavation, concrete outlet structure modification for purpose of converting degraded detention basin into restored stream channel with wetland habitat, native plant seeding, stump removal, furnishing and installing live plant materials, and together with all other incidental work necessary to complete this improvement according to the Plans, Standard Specifications and Special Provisions.

SCOPE OF WORK

The intent of the contract is to provide a complete outline of the work that the Contractor undertakes in full compliance with the plans and specifications. The Contractor shall perform all earthwork, outlet modification, bank re-shaping, rock riffle construction, sediment forebay, and such additional, extra, and incidental construction as may be necessary to complete the work to the finished lines, grades and cross sections in an acceptable manner. Due to budgetary constraints, the Village may increase or decrease contract quantities or remove locations of work. No compensation shall be provided to the contractor for any mobilization costs, specifically for changes to quantities.

GENERAL

The Contractor is herein notified that the Village of Hoffman Estates will require that any questions or clarifications on the contract documents must be made in writing at least five (5) working days prior to the bid opening. No questions or clarifications received after that time will be responded to by the Village. All Contractors who submitted authorization to bid will receive written responses to all inquiries made by all contractors during the bid process no later than two working days prior to the bid opening.

PROJECT SUPERVISOR

The Contractor shall designate an employee as Project Supervisor. The Project Supervisor shall be required to assume the responsibility for general supervision of the Contractor and subcontractors' operations. The Project Supervisor and the Engineer shall work together to properly control and complete the work for the proposed improvements.

The Project Supervisor is responsible for distribution of the plans to the appropriate construction personnel. Failure of the appropriate construction personnel, doing the actual construction, to have a set of plans with them will be considered cause for stoppage of the construction work from proceeding.

PERMITTED HOURS OF WORK

The Hoffman Estates Municipal Code restricts all construction activity within 500 yards of a residence to the period from 7:00 a.m. to 7:00 p.m. on weekdays and 8:00 a.m. to 6:00 p.m. on weekends and all construction activity greater than 500 yards of a residence to the period from 7:00 a.m. to 10:00 p.m. on weekdays and 8:00 a.m. to 10:00 p.m. on weekends.

PROJECT SCHEDULE

March 15, 2027 = Last Day to Start Construction

June 30, 2027 = Last Day for Substantial Completion of Construction

Aug. 16, 2027 = Last Day for Final Completion of Construction

At least 5 working days prior to commencing construction operations, the Contractor shall meet with the Engineer for the purposes of a preconstruction meeting and present, in writing, his proposed construction schedule. Contractor shall also be responsible to notify relevant permit agencies, including but not limited to North-Cook SWCD, and Village of Hoffman Estates Engineering Department to attend said Pre-Construction Meeting. Once approved, the Contractor must strive to adhere to the schedule so that resident notification and field markings of all items of work may proceed in advance of actual construction.

In preparing the construction schedule, the Contractor must follow the requirements given below:

A. Emergency vehicle access must be maintained at all times.

ITEMS INCLUDED IN THE COST OF OTHER ITEMS

The Contractor's attention is called to several specific work items as noted on the Contract Plans and Special Provisions and in addition to the lists in the Standard Specifications. Listed below is a listing of these items for general information only. The list is not intended to be all-inclusive and, therefore, the Contractor is responsible to perform all work according to the Plans, Special Provisions and the Standard Specifications.

- The contractor shall maintain all drainage facilities during construction and shall repair any drainage facilities damaged during construction. This includes any bracing and protection of existing storm sewer networks. Cost of this work shall be included in the cost of applicable pay items.
- Whenever, during construction operations, any loose material is deposited in the flow line of drainage structures, ditches, gutters, etc. such that the natural flow of water is obstructed, the loose material will be removed at the close of each working day. At the conclusion of construction operations, all drainage structures and flow lines shall be free from dirt and debris. This work shall be considered included in the cost of EROSION CONTROL.
- Saw cutting shall be performed at locations designated on the plans including the outlet structure, or as directed by the Engineer, and shall be considered included in the cost of applicable pay items. After saw cutting, the Contractor shall immediately remove all concrete or asphalt slurry from the work area, specifically from the outlet structure which is to remain in place. In the event the concrete or asphalt slurry is not removed immediately and the concrete or asphalt slurry cures and adheres to the adjacent surface, the Contractor shall remove and replace the portion with concrete or asphalt slurry to the satisfaction of the Engineer. No additional compensation will be allowed for removal of the slurry or removal and replacement of the adjacent area due to slurry which was not immediately removed from the adjacent area.
- Concrete curing materials shall be applied to all new concrete gutter flags, faces and tops of curbs, sidewalks, and driveway pavements in accordance with the requirements of Section 1022 of the Standard Specifications. The protective coat shall be a clear curing compound of similar specifications to W.R. Meadows Seal Tight 1100 clear, Chemmasters Safe-Cure Clear, or Dayton Superior Day-Chem Rez Cure (J-11-W). The contractor shall abide by the Manufacturer's specifications in the preparation and application of the membrane curing compound. This work will not be paid for separately but shall be included in the cost of the applicable pay items.
- Concrete washout shall be provided for all work locations where concrete hauling is required at a location approved by the Engineer. The concrete washout shall follow plan details or approved equivalent. This work will not be paid for separately but shall be included in the cost of the applicable pay items.

- Saw cutting shall be performed at locations designated on the plans, or as directed by the Engineer, and shall be considered included in the cost of applicable pay items. After saw cutting, the Contractor shall immediately remove all concrete or asphalt slurry from the work area, specifically from the pavement, driveway, sidewalk and curb and gutter which is to remain in place. In the event the concrete or asphalt slurry is not removed immediately and the concrete or asphalt slurry cures and adheres to the adjacent surface, the Contractor shall remove and replace the portion with concrete or asphalt slurry to the satisfaction of the Engineer. No additional compensation will be allowed for removal of the slurry or removal and replacement of the adjacent area due to slurry which was not immediately removed from the adjacent area.
- Pavement shall be saw cut 6" from the edge of the curb at all locations with Curb and Gutter Removal & Replacement, Special. This area shall be front-filled with Class SI Concrete. Cost of this work shall not be paid for separately but shall be included in the cost of applicable pay items.
- The contractor shall be required to move, secure, and store any signs, decorative materials, sprinkler heads, or landscape items that interfere with construction. Upon completion of the construction, the contractor shall move these items back to their original location and in their original condition. Damaged items must be replaced in-kind. Sprinkler irrigation lines may be repaired with sleeves. Additional restoration may be required to ensure positive drainage for impacted brick paver driveways, aprons, or walkways adjacent to work. This work will be considered included in the cost of the associated pay item that interfered with these features.
- It is the responsibility of the contractor to protect all pavement openings, open holes, equipment, and rubble. Open holes shall not be allowed during non-working hours. All open holes shall be backfilled or covered with steel plates at the end of each working day. The contractor shall maintain high visibility of all temporary hazards to pedestrians and motorists. This work will be considered included in the cost of the associated removal pay items.
- The contractor shall use all necessary precautions and protection measures required to maintain existing utilities, sewers, and appurtenances that must be kept in operation. In particular, the contractor will take adequate measures to prevent the undermining of utilities and sewers which are still in service. It shall be the contractor's responsibility to protect excavation trenches during the installation of sanitary sewer, storm sewer and watermain to include any shoring or dewatering equipment necessary. This work shall be considered included in the cost of the associated pay items.
- The locations of public or private utilities shown on the plans are approximate and the Village and/or Engineer does not guarantee their accuracy. The contractor shall be required to have the respective utility company field locate all their facilities prior to beginning construction. The contractor shall cooperate with all utility owners in accordance with Standard Specifications, if utility relocation, adjustment, or protection is necessary. The Village of Hoffman Estates cannot be held responsible and charged by the contractor for any time delays. The contractor shall also verify the depths of the existing utilities if necessary to verify that grade conflicts will not occur with any proposed construction. Any relocation or lowering of utilities shall be coordinated by the contractor. The cost of this exploration shall be included in the cost of associated pay items.

- Selected pay items with limited quantities for potential utility repair (HOT MIX ASPHALT SURFACE REPAIR, PORTLAND CONCRETE SIDEWALK REPAIR, CLASS D PATCH) are included in the Schedule of Prices. However, as per the Contract Plan Notes:

CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, PROTECT, AND AVOID EXIST. INFRASTRUCTURE AND UTILITIES IN ALL AREAS. ANY DAMAGED UTILITIES OR INFRASTRUCTURE SHALL BE REPAIRED IMMEDIATELY PER SPECIFICATIONS TO SATISFACTION OF OWNER (VILLAGE OF HOFFMAN ESTATES) AND ENGINEER AT NO ADDITIONAL EXPENSE TO OWNER OR ENGINEER.

Costs related to location, protection and/or repair and restoration of damaged utilities that are not included in individual Schedule of Prices Items shall be incidental to SITE RESTORATION costs.

- Goose grid materials, if necessary to maintain native Wetland, Shoreline, or Middle/Upper Bank plant plug survival and/or to meet the Vegetative Performance Standards in the Contract Plans, shall be incidental to the cost of NATIVE PLANT PLUGS throughout the duration of the Contractor contract. Goose grid shall include 2"x2" wooden stakes, and twine (such as monofilament line). See also Contract Plans Sheet 5: Detail # 14 for Goose Grid information. Goose grid shall be removed and disposed offsite by the Contractor at no additional charge to Village or Engineer upon compliance with Vegetative Performance Standards in the contract plans and/or before the completion of the Contractor contract.
- The contractor shall provide portable toilets at all active project locations. Cost of this work will not be paid for separately but shall be included in the cost of the contract.
- The contractor shall remove all construction materials, equipment, debris, etc. from the jobsite within 10 calendar days of substantial completion of construction.
- The contractor is notified that permit coordination is required with the NORTH-COOK SWCD (for SESC permit approval and for Pre-Construction Meeting), ENGINEER, and VILLAGE. See SWCD PERMIT SIGNOFF in Special Provisions below.
- Costs associated with bonding requirements or special conditions of these permits are considered included in the cost of the contract.

APPLICATION FOR PAYMENT

A written application for payment for work completed shall be submitted to the Village by the Contractor not more than once monthly on a date specified by the Village. The Contractor must submit Partial Waivers of Lien from all subcontractors and suppliers for all materials and labor involved, in the amount of the sum total of the application for payment. When the request for final payment is made, Final Waivers of Lien shall be supplied by the Contractor, subcontractors and all firms which supplied materials or services under this Contract, agreeing that said Contract has

been performed, constructed, finished and delivered to the Village free from all claims, liens or charges in the nature of mechanics' liens either in favor of the Contractor or any party, firm or corporation entitled to such lien. The Contractor shall furnish an affidavit stating that all Waivers submitted are the total amount of Waivers required to be submitted. No applications for payment shall be submitted by the Engineer to the Village unless the required Waivers are supplied. Waivers must be furnished by the Contractor to the Engineer at least five days prior to the application for payment submittal date. All contractors and subcontractors shall comply with all applicable state and federal laws including, but not limited to, the Illinois Prevailing Wage Act. Certified Payroll is required from the Contractor and from all subcontractors before payment is released. Failure of the Contractor to submit correct Waivers of Lien at the required time may cause a delay in payment. The issuance of payments for work performed shall in no way lessen the responsibilities of the Contractor.

RETAINAGE

Retainage will be held in the amount of ten percent (10%) of the completed work for the first 50 percent of the contract. After 50 percent or more of the work is completed, retainage will be held in the amount of 5 percent (5%). After 75 percent or more of the work is completed, retainage will be held at 5 percent or lower, at the discretion of the Engineer. Retainage will be withheld until all work and punch list deficiencies are completed to the satisfaction of the Engineer. Per the discretion of the Engineer, the Village has the ability to withhold retention upon completion of all improvements provided under this Contract and shall be for a period of twelve (12) months after the final acceptance of such improvements by the Village for the purpose of:

- A. Guaranteeing against and securing the correction of any defect in material or workmanship furnished under this Contract, latent in character and not discernible at the time of final inspection or acceptance by the Village.
- B. Guaranteeing against and securing the correction of any damage to the improvements provided under this Contract by reason of settling of the ground base or foundation thereof.

ACCIDENT REPORTING

All accidents occurring on the job which damage public or private property, or result in injuries to worker or other persons, shall be promptly reported to the Senior Project Manager and Police Department. Accidents involving utilities shall also be reported to the appropriate utility. This applies to all accidents, including, but not limited to, traffic accidents, broken pipelines, power and telephone facilities, and damage to adjacent properties.

GENERAL CONTRACTOR OR SUBCONTRACTOR HOLD HARMLESS AGREEMENT

The Contractor shall indemnify and hold harmless the Municipality, Living Waters Consultants, Inc. (Engineer), its agents, and its employees from and against all claims for personal injury or property damage, including claims against the Village, Engineer, its agents, or servants, arising out of the Illinois Structural Work Act, and all losses and expenses, including attorney's fees that may be incurred by the Village or Engineer, defending such claims, arising out of or resulting from the performance of the work and caused in whole or in part by any negligent act or omission of the Contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by the party indemnified hereunder. In any and all claims against the Village or Engineer or any of its agents, or servants by an employee of a Contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under this paragraph shall not be limited in any way by any limitation on the amount or type of damages, compensation of benefits payable by or for the Contractor or subcontractor under Workers' Compensation Acts, Disability Acts, or their Employee Benefit Acts.

MATERIAL INSPECTION

Materials used on this project shall be tested and inspected for compliance with the requirements of the IDOT Standard Specifications and the Project Procedure Guide.

The Contractor shall contact the Engineer and Village's consultant 48-hours in advance of construction for inspection of all stone, erosion blanket, seed, live plants, and/or other materials used on this project.

STATUS OF UTILITIES (D-1)

Effective: June 1, 2016

Utility companies and/or municipal owners located within the construction limits of this project have provided the following information regarding their facilities and the proposed improvements. The tables below contain a description of specific conflicts to be resolved and/or facilities which will require some action on the part of the Department's contractor to proceed with work. Each table entry includes an identification of the action necessary and, if applicable, the estimated duration required for the resolution.

UTILITIES TO BE ADJUSTED: Conflicts noted below have been identified by following the suggested staging plan included in the contract. The company has been notified of all conflicts and will be required to obtain the necessary permits to complete their work; in some instances, resolution will be a function of the construction staging. The responsible agency must relocate, or complete new installations as noted in the action column; this work has been deemed necessary to be complete for the Department's contractor to then work in the stage under which the item has been listed.

STAGE/ LOCATION	TYPE	DESCRIPTION	OWNER	ACTION
N/A	N/A	N/A	N/A	N/A

UTILITIES TO BE WATCHED AND PROTECTED: The areas of concern noted below have been identified by following the suggested staging plan included for the contract. The information provided is not a comprehensive list of all remaining utilities, but those which during coordination were identified as ones which might require the Department's contractor to take into consideration when making the determination of the means and methods that would be required to construct the proposed improvement. In some instances, the contractor will be responsible for notifying the owner in advance of the work to take place so necessary staffing on the owners part can be secured.

STAGE/ LOCATION	TYPE	DESCRIPTION	OWNER	ACTION

The above represents the best information available to the Department and is included for the convenience of the bidder. The applicable portions of Articles 105.07 and 107.31 of the Standard Specifications shall apply.

In accordance with 605 ILCS 5/9-113 of the Illinois Compiled Statues, utility companies have 90 days to complete the relocation of their facilities after receipt of written notice from the Department. The 90-day written notice will be sent to the utility companies after the following occurs:

- 1) Proposed right of way is clear for contract award.
- 2) Final plans have been sent to and received by the utility company.
- 3) Utility permit is received by the Department and the Department is ready to issue said permit.
- 4) If a permit has not been submitted, a 15 day letter is sent to the utility company notifying them they have 15 days to provide their permit application. After allowing 15 days for submission of the permit the 90 day notice is sent to the utility company.
- 5) Any time within the 90 day relocation period the utility company may request a waiver for additional time to complete their relocation. The Department has 10 days to review and respond to a waiver request.

MAINTENANCE OF ROADWAYS

Effective: September 30, 1985

Revised: November 1, 1996

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer, but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.

TRAFFIC CONTROL

The Contractors shall provide when required by the Owner or Engineer, state or county regulations, all signs, equipment and personnel necessary to provide for safe and efficient traffic flow in all areas where the work will interrupt, interfere or cause to change in any form, the conditions of traffic flow that existed prior to the commencement of any portions of the work. The Owner or Engineer may, at his discretion, require the contractor to furnish traffic control under these or other circumstances where in his opinion it is necessary for the protection of life and property. The need for traffic control shall be anticipated by the contractor and all cost of said traffic control (unless specifically itemized in the contract documents) shall be merged into the unit cost of work where traffic control might be required.

This work shall include all labor, materials, transportation, handling and incidental work necessary to furnish, install, and remove all traffic control devices as required. The work shall be performed in accordance applicable portions of Section 701 of the Standard Specifications.

Traffic Control shall be in accordance with the applicable sections of the Standard Specifications, the Supplemental Specifications, the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", any IDOT Highway Standards contained in the plans, the Traffic Specifications and the Special Provisions contained herein.

Special attention is called to Article 107.09 of the Standard Specifications and the following IDOT Highway Standards, Details, and Special Provisions contained herein, relating to traffic control.

STANDARDS: 701006-05, 701301-04, 701311-03, 701501-06, 701801-06, 701901-08, 780001-05

SPECIAL PROVISIONS:

- Maintenance of Roadways
- Traffic Control and Protection
- Public Convenience and Safety (District 1)

The contractor shall notify the Engineer at least 72 hours in advance of any change in traffic staging.

BASIS OF PAYMENT: All traffic control and protection will be paid for at the contract lump sum price for TRAFFIC CONTROL. price shall include all labor, materials, transportation, handling, and incidentals necessary to furnish, install, maintain, replace, relocate, and remove all traffic control devices either as required or as indicated in the plans and specifications.

ROCK TOE

1. Description:

Rock toe installation shall consist of excavation of rock materials at proposed shoreline toe of slope to receive rock, placement of filter fabric below rock, and installation per dimensions indicated in Contract Plans Sheet 5: Detail # 1.

2. Materials:

Materials for shall include the following:

A. Filter fabric (Incidental to Rock Toe): filter fabric shall be placed in a trench at the base of the eroded slope below, behind and above rounded rock per details. Filter fabric shall be non-woven polypropylene, with the following marv values: grab tensile strength of 165 lbs., tear strength of 65 lbs., and water flow rate of 80 gpm/ft², or equal.

B. Rock: rock shall be IDOT crushed limestone materials. Rock shall be rounded to sub-rounded in shape, dense, sound, and free from cracks, seams and other defects conducive to accelerated weathering.

3. Installation:

See details. Place filter fabric below, behind, and on top of rock as depicted on details. The filter fabric shall remain intact above the rock to prevent overlying soil washout.

4. Re-shaped slope and plantings:

Rock toe shall be installed with re-shaped slope (latter as a separate Cost Schedule Item) in locations indicated on plans. See plans, plan specifications and details for planting installation.

See also Contract Plans Sheet 5: Detail # 1 for Rock Size Mix and Other Information.

RE-SHAPE SLOPE – TALL BANK & RE-SHAPE SLOPE – LOW BANK

1. General description:

Re-shaping shoreline slopes at Tall Banks shall occur in moderately to severely eroded bank areas and re-shaping shoreline slopes in Low Banks shall occur in low to moderately eroded areas. Re-shaping shall occur by regrading eroded banks according to plan details and sections, and covering exposed soils with erosion control blanket. Native plant seed shall be broadcast per plan specifications between backfill and blanket. (Finished re-shaped slopes may be planted with 2-inch potted plugs, or shrub live stakes where indicated on plans or on Schedule of Prices.)

2. Materials:

Materials for re-shaping slopes includes the following:

- A. Erosion control blanket shall be North American Green SC150 BN, or approved equal.
- B. Subsoil and topsoil: the upper six (6) inches shall be topsoil. Clayey materials may be placed below the topsoil and/or below normal water level. Obtain or reuse existing regraded topsoil with removal of invasive plant species roots and vegetation, or use approved imported pulverized, local in origin, loamy soil from "a-horizon", free of sticks, roots, weeds, brush or stones larger than 1" in dia., or other litter and waste. At least 90% shall pass no. 10 sieve and the pH shall be between 5.5 and 8.0. Sample to be taken and recommendations submitted to Engineer prior to addition of any soil amendments. Contractor shall notify owner as to the source location of any imported topsoil at least 48 hours prior to its delivery.
- C. Install native plant seed mix in accordance with plan specifications.
- D. Install native plant plugs, shrubs and trees where indicated on plans.

3. Construction:

Re-shaped slopes should be constructed in the following sequence:

- A. Prepare slope to provide smooth continuous grades, free of obstructions and materials that would prevent contact between the soil and the blanket.
- B. Provide minimum topsoil depth of 6" using either on-site or any imported material. Engineer shall determine if on-site soil is adequate for seed bed. Compact to 80% proctor density.
- C. Install native plant seed mix as indicated on plans, according to plan specifications.
- D. Prepare typ. 6-in. Deep trench to receive front end of blanket, as indicated on details. Place front end of blanket in trench, staple, and backfill trench to key in blanket.
- E. Typ. Installation of erosion blanket shall be vertical up the slope, perpendicular to the shoreline, per manufacturer's recommendations.
- F. Install blanket in accordance with manufacturer's recommendations for anchoring other edges into 6-in. Deep trenches, overlaps, and stapling patterns. The 6" staples should be utilized for loose soil conditions. Install minimum 4 staples per sq. Yd.
- G. Install prairie plugs, shrub live stakes, or other materials according to plan specifications.

4. Plantings:

Planting densities vary and shall be installed per plans. Plant lists are indicated in plan specifications.

See also Contract Plans Sheet 5: Detail # 1 and # 2 for Additional Information.

CONVERT TO VEG. RIPRAP (CONVERT EXISTING RIPRAP INTO VEGETATED RIPRAP)

1. General description:

The goal of converting existing riprap into vegetated riprap, is to protect / retain exist. riprap revetment shoreline areas, but also to establish native vegetation in the middle and upper areas of existing riprap (starting approximately 2.5 feet above water level).

2. Materials:

Materials for re-shaping slopes includes the following:

- A. Erosion control blanket shall be North American Green SC150 BN, or approved equal.

B. Subsoil and topsoil: the upper six (6) inches shall be topsoil. Clayey materials may be placed below the topsoil and/or below normal water level. Obtain or reuse existing regraded topsoil with removal of invasive plant species roots and vegetation, or use approved imported pulverized, local in origin, loamy soil from "a-horizon", free of sticks, roots, weeds, brush or stones larger than 1" in dia., or other litter and waste. At least 90% shall pass no. 10 sieve and the pH shall be between 5.5 and 8.0. Sample to be taken and recommendations submitted to Engineer prior to addition of any soil amendments. Contractor shall notify owner as to the source location of any imported topsoil at least 48 hours prior to its delivery.

3. Construction:

A. Protect / Retain Exist. Riprap Bank. But Starting at 2.5-Ft Elev. Above Exist. Riprap Toe of Slope, Install and Machine Compact to 80% proctor density 1.0-Ft Thick Layer of Topsoil from Other Onsite Excavation.

B. Clayey soils may be used as base / lower 6 inches of the 12-inch thick topsoil placement to hold in place above the existing riprap.

B. Install Native Plant Seed, and then NAG SC150 BN Erosion Blanket Over Compacted Soil.

SEDIMENT FOREBAY

1. General description:

The goal of this practice is to construct a deepened part of the pond that is capable of storing future sediment, improving onsite and downstream water quality.

2. Construction:

A. Long-reach or other excavation equipment may help to facilitate excavation of the proposed Sediment Forebay locations depicted on the Contract Plans.

B. Excavate deep pools at 2 locations per plans (0.082 ac to be deepened to an average depth of 2.1-ft, and westerly location of 0.063 ac to be deepened to an average depth of 2.2 ft. Total sediment excavation approx. 500 CY.

C. It is anticipated that an onsite earthwork balance will occur.

D. Commence forebay excavation no closer than 20-ft from edge of prop. Creek channel.

E. Relocate excavated sediment onsite in the proposed wetland areas and a min. 15-ft from the proposed creek baseflow edge of water.

F. Blend excavated sediment into adjacent flat-sloped, offshore areas away from potential scour areas. Review sediment placement locations w/ Engineer..

See also Contract Plans Sheet 3: Proposed Plan; Sheet 4: Cross Section # 3 for Additional Information.

ROCK RIFFLE

1. Description:

The work shall consist of furnishing, transporting, and placing rock and other materials at locations shown on plan. The rock riffles shall consist of rock placed above and trenched in below the channel bottom. Riffle crest elevations shall be installed according to the elevations specified on the plans. Riffles will provide grade control, improve fish habitat, improve water quality, and dissipate stream flow energy. Material sizes shall range from coarse aggregate to boulder.

2. Materials:

Materials for rock riffle shall be as follows:

A. Rock boulder and cobble mix: the boulder and cobble shall be rock materials indicated on the details. Reuse of onsite cobble and boulders along work area within rock size distribution below is allowed. Rock shall be rounded to sub-rounded in shape, dense, sound, and free from cracks, seams and other defects conducive to accelerated weathering. Reuse of onsite coarse aggregate at work area within aggregate size distribution below or import materials. Rock not in conformance with this description shall be returned and replaced by the contractor.

See Contract Plans Sheet 5: Detail # 3 for rock size distribution and other information.

B. Filter fabric: filter fabric shall be placed below the rock. Filter fabric shall not extend more than 6 in. Beyond edge of rock in rock riffle (fabric at perimeter of rock shall be cut after installation). (the interior of the filter fabric will be anchored by rip-rap.) Filter fabric shall be non-woven polypropylene, with the following marv values: grab tensile strength of 165 lbs., tear strength of 65 lbs., and water flow rate of 80 gpm/ft².

3. Configuration of trench:

A. A trench shall be constructed for the crest of the riffle. See detail for riffle elevation and plan view applicable for all riffle structures.

B. The trench shape in all areas shall be perpendicular to the banks, and shall extend per details beyond the top of each bank per details. Riffle trench shall be located below riffle crest and shall extend across width of the stream.

C. Riffle bottom between trench and downstream tail shall be excavated per details. The downstream end shall be constructed below existing grade per details.

D. Place filter fabric across the bottom of the trench and in all other areas of the rock riffle. Install as described above.

4. Placement of rock boulder and cobble:

A. Crest elevation: the largest boulders shall be placed at the riffle crest. The riffle crest shall be built across the stream to a height above the graded bottom of the stream channel as indicated on the plans. The top of the boulders in the center of the riffle shall have an average elevation above grade consistent with that indicated on the plans. The rocks should be placed lower in the center to direct flow in the center of the channel.

See Contract Plans Sheet 5: Detail # 3 for rock size distribution and other information.

B. Boulder spacing at crest: the boulders spacing at the riffle crest shall be approximately 1-ft to 3-ft apart to allow sediment transport and fish passage.

C. Slopes: the upstream face of the riffle shall be constructed per details. Downstream slope of riffle shall be constructed per details.

D. Boulder spacing on downstream face: other larger boulders shall be scattered along the downstream face of the riffle. The larger rocks should have a random spacing of 3 ft to 5 ft apart. The surface of the rock riffle should be rough and natural in appearance - do not grade smooth.

STREAMBED EXCAVATE (EXCAVATE NEWLY FORMING STREAMED)

1. Description:

After OUTLET MODIFICATION, the project site is anticipated to form a new baseflow stream channel in the existing pond sediment deposits. While the newly restored stream channel is formed, it may be necessary, based on bottom sediment hardness, to excavate the downstream (north) part of the proposed stream channel to allow for a free-flowing condition into the existing concrete outlet structure. This Pay Item requires coordination with Owner and Engineer for approval prior to implementation. No erosion control blanket is required to be placed at the newly formed stream channel. (See also WETLAND SEEDING pay item.)

2. Materials:

A. No materials are necessary for this installation. It is limited to earthwork, excavation, and relocation of existing soils onsite.

3. Construction:

A. Pending formation and development of proposed stream channel, Approval shall be required from the Owner and the Engineer to verify that this Schedule Item is required for construction.

B. If required, Contractor shall excavate proposed downstream stream channel as required (possibly between stream stations 0+00 to 1+75). Proposed channel excavation shall be typ. 0.8-Ft deep x 10-ft wide per each LF.

C. Dispose of excess sediment in other onsite flat-sloped areas, typ. min. 20 feet away from stream channel, such as along prop. wetland areas w/ 10:1 h:v slope or flatter.

D. Install WETLAND SEEDING as separate pay item, as site conditions allow.

F. No erosion blanket is required to be installed at the proposed wetland area, nor at the proposed STREAMBED EXCAVATION area.

NATIVE PLANT SEED – SHORELINE, MIDDLE/UPPER BANK, AND WETLAND

1. Description:

Native plant seed (SHORELINE, MIDDLE/UPPER BANK AND/OR WETLAND) shall be the primary method of establishing quickly-growing ground cover vegetation. Native plant seed shall be installed at streambanks, riparian areas, restoration areas, or other areas described on plans and specifications.

2. Materials:

A. Seed materials shall be healthy (species specified below). With an origin as close as possible to project site. Plant materials from beyond a 150-mile radius of the project site shall be approved in writing by owner prior to use.

B. Substitutions shall not be made without written approval of owner.

3. Quality control:

- A. Delivery: accept delivery of seed after preparations for plantings have been completed.
- B. Temporary storage: if planting is delayed more than 4 hours after delivery, make provisions for protecting plants from weather, and watering as needed.
- C. All seed material must show appearance of normal health and vigor and shall comply with the state and federal laws with respect to inspection for plant diseases and insect infestations.
- D. All precautions that are customary in good trade practices shall be taken to insure the arrival of seed in good condition.

4. Installations

- A. Drill seeding may be used to install seed in graded riparian, wetland, or restoration areas. Either drill seeding or raking shall be used to install seed in non-graded riparian, wetland or restoration areas. In shorelines, streambanks or areas where erosion control blanket is installed, broadcast seeding may occur. All seed installation shall occur after the seedbed is properly prepared but prior to the installation of plugs, if any. Roots and small sticks (<2" diam.) Shall be removed prior to seeding. Large branches (>2" diam.) May be kept onsite if they do not interfere with seed installation. Subsoil and topsoil shall not be compacted to more than 80% proctor density. Disking shall occur as described below.
- B. Subsoil and topsoil: the upper six (6) inches shall be topsoil. Reuse existing regraded topsoil with removal of live roots and weeds. Reused topsoil shall be loam soil from "a-horizon", free of sticks, roots, weeds, or brush larger than 1" in dia., or other litter and waste. At least 90% shall pass no. 10 sieve and the pH shall be between 5.5 and 8.0. Under no circumstances shall soil be imported without written permission from owner. Clayey materials (greater than 30% clay) may be placed below the topsoil in proposed basins below normal water level.
- C. If the coverage of native plant species in proposed non-graded shoreline, riparian or streambank areas is less than 40% then those areas shall first be herbicided to remove undesirable coverage of invasive plant species. Sufficient time shall elapse between herbiciding and native plant materials installation to allow herbicide effect to substantially dissipate. Herbicided weeds shall be removed prior to disking or tilling. Proper herbicide application rates shall be achieved using roundup in upland areas and rodeo (glyphosphate) near water according to manufacturer's recommendations.
- D. Following mass grading and prior to topsoil placement, subgrade shall be prepared with a disk or chisel to a minimum 6-inch tillage depth. Subsoil disking shall not occur during wet soil conditions. Following placement of topsoil, seedbed shall be prepared with a disk or chisel in all graded areas to a minimum 6-inch tillage depth. Maximum dirt clod size shall be approximately 3 inches. A rake shall be applied to remove large clods and to create a smooth and level seedbed. Seedbed preparation shall not occur during wet soil conditions. Seedbed shall have minimum compaction, be smooth and free of debris to promote seed-soil contact.
- E. Planting dates for native plant seed: no installation under frozen or saturated ground surface conditions. Native plant seed and wetland seed installation shall occur between April 1 and September 15 unless approved otherwise by owner. Fall dormant seeding shall occur between November 10 and December 15.
- F. Contractor shall notify owner's representative at least 48 hours prior to planting.

G. SHORELINE plant seed shall be installed along banks from -0.25 to +0.75 ft vertical distance from proposed normal water level. Install below erosion control blanket in re-graded slopes, shoreline areas, restored access areas, or other areas.

H. MIDDLE / UPPER BANK native plant seed shall be installed along banks above the shoreline seed from 0.75 ft above nwl extending beyond the top of bank. Install below erosion control blanket in re-graded slopes, shoreline areas, restored access areas, or other areas.

J. WETLAND - shallow emergent native plant seed shall be installed in prop. Wetland areas indicated on plans. Install from -0.75 below to +0.75 ft below proposed normal water level. Install below erosion control blanket in re-graded slopes and shoreline areas.

1. SHORELINE SEED MIX:

Typical installation from -0.25 to +0.75 ft vertical distance from normal water level.

SHORELINE SEED MIX	COMMON NAME	(LB/ACRE)
ASCLEPIAS INCARNATA	SWAMP MILKWEED	0.40
ASTER PUNICEUS	SWAMP ASTER	0.25
ASTER SIMPLEX	MARSH ASTER	0.25
CAREX COMOSA	BRISTLY SEDGE	0.50
CAREX FRANKII	FRANK'S SEDGE	0.50
CAREX GRANULARIS	MEADOW SEDGE	0.50
CAREX HYSTERICINA	PORCUPINE SEDGE	0.75
CAREX STIPATA	COMMON FOX SEDGE	1.25
CAREX VULPINOIDEA	FOX GRASS	1.25
ELIOCHARIS PALUSTRIS	GREAT SPIKE RUSH	0.50
ELYMUS RIPARIUS	RIVERBANK WILD RYE	1.00
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	1.25
IMPATIENS CAPENSIS	ORANGE JEWELWEED	0.30
IRIS VIRGINICA	BLUE FLAG IRIS	0.50
JUNCUS EFFUSUS	SOFT RUSH	0.50
JUNCUS TORREYI	TORREY'S RUSH	1.00
RUDBECKIA LACINIATA	WILD GOLDEN GLOW	0.25
SCIRPUS PUNGENS	CHAIRMAKER'S RUSH	<u>0.25</u>

TOTAL 11.20 LB/ACRE

COVER CROP (20 LB/ACRE)

AVENA SATIVA	SEED OATS	<u>15.00</u>
TOTAL		15 LB/AC

2. MIDDLE / UPPER BANK NATIVE PLANT SEED MIX: shall installed along shoreline slopes above the shoreline seed from 0.75 ft above nwl extending beyond the top of bank, including upland riparian areas.

<u>MIDDLE / UPPER BANK MIX</u>	<u>COMMON NAME</u>	<u>(LB/ACRE)</u>
AQUILEGIA CANADENSIS	COLUMBINE	0.2
BOUTELOUA CURTIPENDULA	SIDE OATS GRAMA	2.0
CAREX FRANKII	FRANK'S SEDGE	0.5
CAREX GRANULARIS	MEADOW SEDGE	0.3
CAREX MOLESTA	FIELD OVAL SEDGE	0.3
CAREX NORMALIS	NORMAL SEDGE	0.4
CAREX VULPINODEA	FOX SEDGE	1.8
ELYMUS CANADENSIS	PRAIRIE WILD RYE	1.0
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	1.0
EUPATORIUM SEROTINUM	LATE BONESET	0.2
HYSTRIX PATULA	BOTTLEBRUSH GRASS	0.5
JUNCUS TORREYI	TORREY'S RUSH	0.3
MONARDA FISTULOSA	BERGAMONT	0.4
POLYGONUM SPP.	SMARTWEED	0.4
RUDBECKIA HIRTA	BLACK-EYED SUSAN	0.3
RATIBIDA PINNATA	YELLOW CONEFLOWER	0.3
RUDBECKIA FULG. SPECIOSA	SHOWY BLACK-EYED SUSAN	0.3
RUDBECKIA SUBTOMENTOSA	SWEET BLACK-EYED SUSAN	0.3
SCHIZACHYRIUM SCOPARIUS	LITTLE BLUESTEM	1.0
SOLIDAGO FLEXICAULIS	ZIGZAG GOLDENROD	0.3
SOLIDAGO RIGIDA	STIFF GOLDENROD	0.3
SOLIDAGO SPECIOSA	SHOWY GOLDENROD	0.2
SYMPHYO. NOVAE-ANGL.	NEW ENGLAND ASTER	0.3
SYMPHYO. OOLENTANG.	SKY BLUE ASTER	0.3
ZIZEA AUREA	GOLDEN ALEXANDER	<u>0.3</u>
TOTAL		13.20 LB/AC

COVER CROP (15 LB/ACRE)

AVENA SATIVA	SEED OATS	15.0
COSMOS SPP.	COSMOS	<u>0.5</u>
TOTAL		15.50 LB/AC

3. WETLAND SEEDING - shallow emergent seed list to be installed in prop. Wetlands from - 0.75' below prop. Nwl to +0.75' above prop. Nwl).

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>LBS/AC</u>
ACORUS CALAMUS	SWEET FLAG	0.5
ASCLEPIAS INCARNATA	SWAMP MILKWEED	0.5
CAREX COMOSA	BRISTLY SEDGE	0.5
CAREX HYSTERICINA	PORCUPINE SEDGE	1.5
CAREX VULPINOIDEA	BROWN FOX SEDGE	1.5
CAREX STRICTA	TUSsock SEDGE	0.5
LEERSIA ORYZOIDES	RICE CUTGRASS	0.5
LYCOPUS AMERICANUS	COMMON WATER HOREHOUND	0.25
SCIRPUS ATROVIRENS	DARK GREEN RUSH	0.75

SCIRPUS FLUVIATILIS	RIVER BULRUSH	0.75
SCIRPUS PUNGENS	CHAIRMAKER'S RUSH	0.5
<i>SCIRPUS VALIDUS CREBER</i>	GREAT BULRUSH	0.5
SPARTINA PECTINATA	PRAIRIE CORD GRASS	0.5
SYMPHYOTRICHUM SIMPLEX	MARSH ASTER	<u>0.25</u>
TOTAL		9.00 LB/AC

COVER CROP (15 LB/ACRE)

AVENA SATIVA	SEED OATS	<u>10.0</u>
		10.0 LB/AC

NATIVE PLANT PLUGS - SHORELINE, MIDDLE/UPPER BANK, AND WETLAND

1. Description:

Native plant plugs shall be used to establish ground cover vegetation in the restoration areas. Native plant plugs shall consist of 2-inch potted plants, unless stated otherwise. Aquatic plant tubers shall be installed in open water areas where indicated on plans.

2. Materials:

A. Container materials shall be healthy (species specified below). With an origin as close as possible to project site. Plant materials from beyond a 150-mile radius of the project site shall be approved in writing prior to use by the owner.

B. Substitutions shall not be made without written approval of Owner and Engineer.

3. Quality control:

A. Watering shall occur if necessary to maintain vigor during on-site storage. Materials shall be stored in a shaded area if ambient temperatures exceed 80 degrees F.

B. Delivery: accept delivery of trees and shrubs after preparations for plantings have been completed and plant immediately.

C. Temporary storage: if planting is delayed more than 4 hours after delivery, make provisions for protecting plants from weather, and watering as needed.

D. All plant material, including collected stock, must show appearance of normal health and vigor and shall comply with the state and federal laws with respect to inspection for plant diseases and insect infestations.

E. Each species shall be handled and packed in the manner approved for that plant, having regard for the soil and climate conditions at the time and place of digging or cutting and delivery, and to the time that will be consumed while in transit or delivery. All precautions that are customary in good trade practices shall be taken to insure the arrival of plants in good condition. Inspection shall occur for plant diseases and insect infestations.

F. Goose grid materials, if necessary to maintain plug survival and to meet the Vegetative Performance Standards in the Contract Plans, shall be incidental to the cost of native plant plugs. Goose grid shall include 2"x2" wooden stakes, and twine (such as monofilament line). See also Contract Plans Sheet 5: Detail # 14 for Goose Grid information.

4. Installations

A. SHORELINE PLUGS shall be installed along shorelines or streambanks from -0.25 to +0.75 ft vertical distance from proposed normal water level.

C. MIDDLE / UPPER BANK native plant plugs shall be installed along streambanks above the shoreline plugs from 0.75 ft above nwl extending beyond the top of bank.

D. WETLAND PLUGS: to be installed in proposed wetlands from -0.75' below nwl to +0.75' above proposed NWL).

E. Planting dates for native plant plugs: May 1 through July 15, unless approved otherwise by owner.

F. Re-graded slopes: install native plant plugs in locations specified by owner and per details through erosion blanket by inserting planting bar (2 in. Dia.) Into slopes. The holes will be of sufficient size to permit placing the plant without bending the shoots. Place the plants in the hole flush with the ground surface. Holes shall be filled with soil and pressed firm up to the ground surface. All spaces within one foot radius of the planting will be filled with soil and compacted.

5. SHORELINE PLUGS:

Typical installation of shoreline native plant plugs shall occur shall be installed along shorelines or streambanks from -0.25 to +0.75 ft vertical distance from normal water level. The typical density shall include min. One (1) native plant plug per 1 linear foot of shoreline. See plans for densities.

SHORELINE NATIVE PLANT PLUG SPECIES LIST (%)

<i>SCIENTIFIC NAME</i>	<i>COMMON NAME</i>	<i>PERCENT OF TOTAL</i>
ACORUS CALAMUS	SWEET FLAG	4%
ASCLEPIAS INCARNATA	SWAMP MILKWEED	10%
CAREX COMOSA	BRISTLY SEDGE	3%
CAREX EMORYII	RIVERBANK TUSsock SEDGE	4%
CAREX GRANULARIS	MEADOW SEDGE	3%
CAREX HYSTERICINA	PORCUPINE SEDGE	10%
CAREX SPARGANOIDES	BURRED SEDGE	1%
CAREX STIPATA	COMMON FOX SEDGE	6%
CAREX TRIBULOIDES	POINTED OVAL SEDGE	1%
CAREX VULPINODEA	FOX SEDGE	23%
IRIS VIRGINICA SHREVEI	BLUE FLAG IRIS	26%
JUNCUS TORREYI	TORREY'S RUSH	4%
SCIRPUS PUNGENS	WOOL GRASS	5%
		<u>100%</u>

6. MIDDLE / UPPER BANK NATIVE PLANT PLUGS: shall installed along streambanks above the shoreline seed from 0.75 ft above nwl extending beyond the top of bank. See plans for densities.

MIDDLE / UPPER BANK PLANT PLUG SPECIES LIST (%)

<i>SCIENTIFIC NAME</i>	<i>COMMON NAME</i>	<i>PERCENT OF TOTAL</i>
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AQUILEGIA CANADENSIS	COLUMBINE	6%
BOUTELOUA CURTIPENDULA	SIDE OATS GRAMA	4%
CAREX FRANKII	FRANK'S SEDGE	5%
CAREX MOLESTA	FIELD OVAL SEDGE	5%
CAREX NORMALIS	NORMAL SEDGE	6%
CAREX VULPINODEA	FOX SEDGE	14%
ECHINACEA PURPUREA	PURPLE CONEFLOWER	6%
EUPATORIUM PERFOLIATUM	COMMON BONESET	2%
LOBELIA CARDINALIS	CARDINAL FLOWER	5%
LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	3%
PENSTEMON DIGITALIS	FOXGLOVE BEARDSTONGUE	7%
RATIBIDA PINNATA	YELLOW CONEFLOWER	6%
RUDBECKIA SUBTOMENTOSA	SWEET BLACK-EYED SUSAN	3%
SCHIZACHYRIUM SCOPARIUS	LITTLE BLUESTEM	8%
SOLIDAGO FLEXICAULIS	ZIGZAG GOLDENROD	3%
SYMPHYO.. NOVAE-ANGL.	NEW ENGLAND ASTER	5%
TRADESCANTIA OHIOENSIS	SPIDERWORT	4%
ZIZEA AUREA	GOLDEN ALEXANDER	8%
		<u>100%</u>

7. WETLAND - SHALLOW EMERGENT PLANT PLUGS: to be installed in prop. Wetlands from -0.75' below nwl to +0.75' above prop. Nwl).

EMERGENT WETLAND PLUGS (%)

<i>SCIENTIFIC NAME</i>	<i>COMMON NAME</i>	<i>PERCENT OF TOTAL</i>
ACORUS CALAMUS	SWEET FLAG	3%
ASCLEPIAS INCARNATA	SWAMP MILKWEED	7%
CAREX CRISTATELLA	CRESTED OVAL SEDGE	1%
CAREX EMORYII	RIVERBANK SEDGE	3%
CAREX HYSTERICINA	PORCUPINE SEDGE	6%
CAREX STRICTA	TUSsock SEDGE	3%
HIBISCUS PALUSTRIS	SWAMP ROSE MALLOW	3%
IRIS VIRGINICA SHREVEI	BLUE FLAG IRIS	19%
JUNCUS EFFUSUS	SOFT RUSH	5%
PONTEDARIA CORDATA	PICKERELWEED	13%
PHYSOSTEGIA VIRGINIANA	OBEDIENT PLANT	3%
SAGITTARIA LATIFOLIA	ARROWHEAD	1%
SCIRPUS ACUTUS	HARD-STEM BULRUSH	4%
SCIRPUS AMERICANUS	COMMON THREE SQUARE	5%
SCIRPUS ATROVIRENS	DARK GREEN RUSH	7%
SCIRPUS VALIDUS CREBER	SOFTSTEM BULRUSH	7%
SPARGANIUM EURYCARPUM	BUR REED	<u>10%</u>
		100%

TREES AND SHRUBS

Every effort shall be made by the Contractor when working near trees and shrubs to preserve same from harm. No trees or shrubs shall be removed unless so indicated on the Plans or as authorized in the field by the Engineer. The Contractor shall be responsible for damage to or loss of any tree or shrub not specifically designated to be removed.

Wherever trees, which are not permitted to be removed, interfere with normal excavation procedures, the following shall govern. No machine excavation shall be made within a distance of three trunk diameters or 12 inches (whichever is greater) of any tree, and no roots over two inches in diameter shall be cut unless, in the opinion of the Engineer, it is impossible to complete the work without cutting. Excavation closer than three trunk diameters or 12 inches (whichever is greater) from any tree shall be performed by hand.

Damage to tree limbs shall be held to a minimum. Shrubs and tree limbs shall be tied back wherever necessary to prevent their loss or damage. Wherever damage by construction equipment to limbs and branches is unavoidable, they shall be pruned before starting work and sealed in accordance with best forestry practice.

Wherever necessary, the Contractor shall provide lath or plank wrappers wired in place to protect tree trunks from being damaged by trench machinery, tractors or trucks. Protective wrappers shall be removed as soon as practical after the work in the vicinity has been completed. In removing soil banks from around trees, handwork will be required as necessary to prevent trunk damage by construction machinery.

Trees larger than one inch in diameter shall be furnished balled and burlapped. The Contractor shall have the option of removing and replanting existing small trees and shrubs in the construction zone in lieu of replacement with new stock. All planting shall be done in accordance with Section 253 of the Standard Specifications.

1. DESCRIPTION:

Trees and shrubs shall be installed where indicated by owner. Locations of trees and shrubs within 25 feet of shoreline areas shall be reviewed by Owner's Representative prior to installation.

2. MATERIALS:

- A. Trees and shrubs shall be in the size range specified on the bid list.
- B. Container materials shall be healthy (species specified below). With an origin as close as possible to project site. Materials from beyond a 150-mile radius of the project site shall be approved in writing prior to use by owner's representative.
- C. Substitutions shall not be made without written approval of owner's representative.
- D. Trees shall be 2.5-in. caliper ball and burlap. Shrubs shall be 5-gallon container size.

3. QUALITY CONTROL:

- A. Provide tree and shrub containers to the project site. Watering should occur if necessary to maintain vigor.

- B. Delivery: accept delivery of trees and shrubs after preparations for plantings have been completed and plant immediately.
- C. Temporary storage: if planting is delayed more than 4 hours after delivery, make provisions for protecting plants from weather, and watering as needed.
- D. Label at least one plant of each variety in each planting area with securely attached waterproof tags bearing legible designation of botanical and common name.
- E. All plant material, including collected stock, must show appearance of normal health and vigor and shall comply with the state and federal laws with respect to inspection for plant diseases and insect infestations.
- F. Each species shall be handled and packed in the manner approved for that plant, having regard for the soil and climate conditions at the time and place of digging or cutting and delivery, and to the time that will be consumed while in transit or delivery. All precautions that are customary in good trade practices shall be taken to insure the arrival of plants in good condition.

4. INSTALLATIONS

- A. Trees and shrubs shall be installed where indicated by owner. Trees and shrubs shall be placed within ecological site constraints relevant to each species. Planted materials shall be thoroughly watered following installation.
- B. Planting dates for trees & shrubs: April 1 through May 31, unless approved otherwise by owner's representative.
- C. Install trees & shrubs into holes of sufficient size to permit placing the plant without bending the shoots. Place the plants in the hole per details. Holes shall be filled with soil and pressed firm up to the ground surface. All spaces within one-foot radius of the planting will be filled with soil and compacted.

5. TREE & SHRUB SPECIES LIST

<i>SCIENTIFIC NAME</i>	<i>COMMON NAME</i>	<i>PERCENT</i>
TREES		
BETULA NIGRA	RIVER BIRCH	10%
OPINUS STROBUS	EASTERN WHITE PINE	10%
PLATANUS OCCIDENTALIS	SYCAMORE	20%
QUERCUS ALBA	WHITE OAK	15%
QUERCUS MACROCARPA	BURR OAK	15%
TAXODIUM DISTICHUM	BALD CYPRESS	10%
TILIA AMERICANA	BASSWOOD	20%
		100%

SHRUBS

AMELANCHIER HUMULIS	SERVICEBERRY	15%
CEPHALANTHUS OCCIDENTALIS	BUTTON BUSH	15%
CERCIS CANADENSIS	EASTERN REDBUD	10%
CORNUS RACEMOSA	GRAY DOGWOOD	10%
CORNUS SERICEA	RED-OSIER DOGWOOD	15%
CORYLUS AMERICANA	AMERICAN HAZELNUT	10%
SAMBUCUS CANADENSIS	AMERICAN BLACK ELDERBERRY	15%
VIBURNUM PRUNIFOLIUM	BLACKHAW VIBURNUM	10%
		100%

TREE / SHRUB REMOVAL

The following is also per construction notes on the Contract Plans.

Save trees and shrubs marked in field (review w/ engineer) or indicated in Contract Plan textbox notes. Tree and shrub removal within work limits, w/ stump grinding (and herbiciding if appropriate), w/ offsite disposal of cut materials shall occur as follows:

- remove and herbicide cut stumps for unmarked invasive tree species below 12-in. Diam. (including but not limited to mulberry, silver maple, cottonwood, box elder).
- remove and herbicide cut stumps invasive shrubs (typ. Buckthorn, honeysuckle)
- if needed, contractor may remove trees marked to be saved (if needed for contractor stabilization or access) but only after contractor review and approval w/ Engineer before tree removal.
- remove trees and shrubs with offsite disposal.
- grind tree stumps to 1-ft below prop. Ground surface for all removal trees.
- trees removed that are located in critical slopes that are not proposed to be re-graded shall be cut flush w/ ground (stump left intact) and the stump shall be herbicided.
- invasive shrubs (including buckthorn and honeysuckle) shall be cut w/ stumps ground to 6-in. depth below the prop. Ground surface..
- contractor shall field review and confirm all trees proposed for protection or removal on the south (residential) shoreline w/ Owner and Engineer, prior to tree removal.

Cut trees within required size and type limits, may be used for prop. Log habitat structures. Otherwise, cut materials shall be disposed offsite.

Not all exist. Trees, shrubs, or stumps may be indicated on plans. The cost for this pay item shall be Lump Sum and it includes all equipment, labor, access, materials, coordination, and related execution.

CLEARING / GRUBBING / HERBICIDE INVASIVE SPECIES

The Contractor shall herbicide existing turf grass or other invasive vegetation, as required, in order to establish proposed native plantings along the shoreline and/or other locations. See Clearing and Grubbing above regarding herbicide applications.

1. Notes indicated on contract plans and/or bid list descriptions shall supersede any specifications below or herein.
2. Quantities indicate clearing and grubbing as required within stabilization areas. (selected trees within acceptable size ranges shall be used for log habitat structures if specified on details.) Excess or damaged trees, as well as cleared brush, plants and invasive species shall be removed from the project site and disposed in a licensed off-site facility. Cost for clearing, grubbing, removal, and/or mulching shall be incidental to project costs.
3. Enhancement areas, if any, identified on plans shall include removal of invasive woody vegetation. Cleared brush, plants and invasive species shall be removed from the project site and disposed in a licensed off-site facility. Cost for clearing, grubbing, removal, and/or mulching shall be incidental to project costs. Cut stumps, sprouts, suckers, and re-sprouts of woody vegetation shall be treated with herbicide to minimize suckering or re-sprouting. Cut stumps of buckthorn shall be treated with garlon (tricyclopyr) diluted no more than 50% with water. Honeysuckle (*Lonicera mackii*; *Lonicera x bella*) cut stumps shall be treated with roundup (glyphosphate) diluted no more than 50% with water. Mix all stump herbicide with a dark green dye to identify treat stump herbicide areas.
4. Quality control
 - A. No on-site burns shall be allowed unless approved in writing by owner. All excess trees, brush, other plant materials, debris shall be removed from the project site and disposed of in an approved facility.
 - B. Pesticide license: herbicides shall be applied by a licensed pesticide applicator with general, right-of-way, aquatic and/or other applicable pesticide licensure.
 - C. At least one person with at least 3 years of native plant identification experience shall be present at all times during selective removal of invasive species.
 - D. Disturbance during tree and shrub cutting and removal shall not occur to flagged trees or shrubs which have been designated by owner to be protected.

TREE ROOT PRUNING

This work shall consist of root pruning of trees as designated on the plans or as directed in the field by the Engineer. This work shall be done in accordance with Section 201 of the Standard Specifications and as modified herein, and shall be performed prior to any pavement removal on a street.

Root-pruning cuts shall be made parallel to the curb along the street and/or sidewalk and four (4) feet beyond the tree's drip line on each end. All root-pruning cuts shall be made to a depth of eighteen (18) to twenty-four (24) inches. Root pruning shall be placed between twenty-four (24) and thirty (30) inches behind the back of curb or adjacent to the sidewalk.

All root-pruning cuts must be completed before the removal of any concrete adjacent to the tree being pruned. If any root-pruning is not completed before the removal of concrete, the root pruning will not be measured for payment.

All root-pruning cuts shall be completely backfilled immediately as part of this pay item. If any root pruning cuts are not completely backfilled immediately, the root pruning cuts in question will not be measured for payment.

CABLED LOG HABITAT

1. DESCRIPTION:

This work shall consist of installation of cabled logs within the proposed wetland area to serve as aquatic habitat and protection of the shoreline from wave erosion. The work shall be performed consistent with Contract Plan Sheet 6: Detail # 8.

2. MATERIALS:

- A. Cut logs may be from onsite cut trees, or imported logs. Other than willow or other self-sprouting species. Log habitat structures shall be constructed from on-site cut trees or imported logs free of advanced decay. (note exist. Fallen logs onsite shall be protected.) Install log habitat structures in near-shore locations, and away from potential scour that are approved by owner and engineer. Log habitat structures shall have min. 10 in. Diameter trunks and min. 18 ft length.
- B. Earth anchors shall be Duckbill Type, or approved equal, minimum 3-ft into competent subgrade. Earth anchors shall be spaced 2 per log, approximately 15 ft on center.

3. QUALITY CONTROL:

- A. Logs shall be sound and free of advanced decay. Keep trunk length as long as practicable for natural appearance. Fallen logs shall be relocated on-site using equipment with low-pressure tires, or other means to minimize soil disturbance and/or rutting in constructed wetlands or other areas. Contractor shall restore all disturbed or rutted areas per specifications for restoration of disturbed areas.

4. INSTALLATIONS

- A. Log contact with ground shall occur to the extent practicable (see notes on trimming branches along ground side of trunk).
- B. Review proposed log location w/ owner and engineer. Locate near shoreline and away from scour-prone areas, such as wetland or pond locations away from scour-prone areas. Log shall have min. 10 in. Diameter trunks and min. 18 ft length. Logs shall be sound and free of advanced decay. Keep trunk length as long as practicable for natural appearance.
- C.. Place 1/4 in. Galvanized cable fastened to two duckbill anchors (or equal) spaced approx. 12 ft. On center to fasten tree trunks in locations shown on plans. Each tree trunk shall have a min. 2 fastener cables each anchored 3 ft. Into the subgrade.

OUTLET MODIFICATION

1. DESCRIPTION:

This work shall consist of installation of modifying the existing concrete outlet structure to lower the proposed normal water level (nwl). The work shall be performed consistent with Contract Plan Sheet 5: Detail # 4.

2. MATERIALS:

A. Equipment and materials shall be provided as necessary to provide the orifice coring required for the installation described below.

3. QUALITY CONTROL:

A. See installation below.

4. INSTALLATIONS

A. Proposed 15.4-in. diam. orifice shall be installed per Contract Plan Sheet 5: Detail # 4. With invert elevation 772.60 ft. Proposed orifice shall either be cored in concrete wall to exact dimensions or cored with larger diam. coring saw and covered with a machine cut exact diam. 15.4-in. Hole within a min. 3-ft h x 3-ft wide x 0.25-in. thick steel plate. The steel plate shall be bolted to the outside face of concrete and sealed with epoxy to prevent seepage between the prop. Plate and the exist. Concrete face.

B. Any existing rebar exposed by coring the existing wall shall be epoxy coated and sealed.

C. Proposed steel plate shall overlap edges of existing concrete wall by a min. of 6 inches. If needed after coring, repair existing adjacent concrete filet to slope evenly toward the downstream (north) inlet.

RIPRAP LINING – GULLY STABILIZATION

1. DESCRIPTION:

Riprap lining (1.5-ft thick) shall be installed to stabilize an existing eroding gully at the east pond shoreline (east of stream station 3+05).

2. MATERIALS:

A. IDOT Class riprap shall be sound and free from defects.

B. IDOT crushed riprap mix shall include 35% IDOT R4 stone, 50% IDOT R5 stone, and 15% IDOT R3 stone..

3. QUALITY CONTROL:

A. See materials above.

4. INSTALLATIONS

A. Riprap shall be installed in lifts to provide an approximate 1.5-foot thickness from the top of the gully headcut, to the bottom of the gully at the existing pond shoreline.

B. The dimensions of stone placement are estimated on average as 5-foot wide x 15-ft long x 1.5-ft thick.

C. The stone shall conform to an approximate V-shape to force flows toward the center of the riprap lining. The center of the riprap lining shall be at least 1-foot lower in elevation (in cross section view) than the sides of the riprap located up to the top of the existing bank.

D. The upstream side of the riprap lining shall be depressed to force overland runoff into the center of the structure (and not diverted around the sides of the structure).

PROJECT SIGN

1. DESCRIPTION:

The Project Sign (2) shall conform to the requirements depicted on Contract Plan Sheet 6-B, Detail # 16 Project Sign. The Project Sign is intended to be temporary, with a duration of at least 3 years.

2. MATERIALS / QUALITY CONTROL:

A. Prior to fabrication, contractor shall contact Engineer to obtain image files.

B. Project sign dimensions 2-ft x 4-ft.

C. Material = aluminum backing.

D. Installation = posts installed in ground.

E. Location = coordinate with Engineer.

F. Colors:

pms 109 yellow

pms 347 green

pms 361 green

pms 297 blue

pms 300 blue

reflex blue

black

3. INSTALLATIONS

A. Coordinate with Engineer for locations for two (2) Project Signs in high-visibility locations.

B. Sign shall be mounted on two (2) metal posts that are epoxy coated to prevent rust.

EROSION CONTROL

The following is per Contract Plan Sheet 8: Specifications for Erosion Control.

The erosion control measures indicated on the plans, details and specifications are the minimum requirements. Additional measures may be required as directed by the Village Engineer or other agencies.

- a copy of the approved erosion and sediment control plan shall be maintained by the contractor on the site at all times.

- the purpose of this project is to prevent the ongoing erosion problems through the stream reach. The grading, planting and stabilize measures proposed will control erosion on the banks in the project reach upon completion of the project.

- unless otherwise noted, all vegetative and structural erosion and sediment control practices will be constructed to standards and specifications in the Village / MWRD watershed management ordinance, Illinois urban manual - current edition, whichever is more restrictive.
- soil erosion and sediment control maintenance must occur every week and/or after every 0.25 in. Or greater rainfall event.
- contractor shall notify the Village one week prior to the pre-construction conference, one week prior to the commencement of land disturbing activities, and one week prior to the final inspection.
- there shall be no land-disturbing activities on-site other than in areas indicated on the plans.
- the contractor is responsible for installation of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the village.
- soil erosion and sediment control features shall be constructed prior to the commencement of hydrologic disturbance of upland areas.
- excavated subgrade materials and/or excess cut shall be removed and disposed offsite in an approved facility.
- construction activities will, to the extent practicable, be scheduled to avoid periods of runoff.
- the sequence of daily construction of the shoreline shall include the following. Grading activities along the shoreline shall be limited so that the area of the stream that is exposed to regrading can be covered with stapled erosion control blanket and seed mix (if complete) by the end of the work day. Under no circumstances shall re-graded shoreline be uncovered by erosion blanket during a precipitation event. Disturbed soils will be exposed as briefly as practicable.
- restored shoreline areas will be rapidly stabilized with erosion control blanket, permanent native plant seeding, and temporary quick-growing cover crop.
- excavated soils will permanently stockpiled in the approved areas indicated on the plans. Soil within approved temporary soil stockpile locations shall be removed within or before 7 days.
- soil stockpiles shall not be located in a flood prone area or a designated buffer protecting waters of the united states or isolated waters of cook county.
- a stabilized construction entrance (see details) shall be located at any point where traffic will be entering or leaving a construction site to or from a public right-of-way, street, alley or parking area.
- the soil stockpile area shall be protected with silt fence as indicated in the plan details. During and upon completion of construction activities, sediment accumulated along the silt fence from construction activities shall be cleaned out from the stream and removed directly from the site, or temporarily stockpiled in the area indicated.
- if dewatering services are used, adjoining properties and discharge locations shall be protected from erosion. Discharges shall be routed through an effective sediment control measure (e.g. Sediment trap, sediment basin, or other appropriate measure.
- grade control structures (rock riffles, rock vanes, rock checks, etc.) Shall be constructed by temporarily placing a fiber roll staked across the stream channel immediately downstream of the area of disturbance. Upon completion of grade control construction activities, sediment accumulated along the fiber roll from construction activities shall be cleaned out from the stream and removed directly from the site, or temporarily stockpiled in the area indicated on the plans. The fiber roll barrier and stakes placed across the stream channel shall be removed.
- all temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization is achieved or after the temporary measures are no longer needed.

- upon completion of construction, equipment access areas shall be restored and soil stabilization provided through removal of ruts and seed installation along disturbed areas. See "site cleanup" measures in these specifications.
- pumping sediment laden water into any stormwater facility that is not designated to be a sediment trap, drainageway, or offsite tributary area either directly or indirectly without filtration is prohibited.
- water removed from traps, basins and other water holding depressions or excavations must first pass through a sediment control or filtration device. When dewatering devices are used, discharge locations shall be protected from erosion.
- temporary or permanent storage in the floodplain of the following are prohibited unless elevated or floodproofed to one foot above the base flood elevation:
 - a. Items susceptible to flood damage; or
 - b. Unsecured buoyant materials or materials that may cause off-site damage including bulky materials, flammable liquids, chemicals, explosives, pollutants, or other hazardous materials; or
 - c. Landscape wastes.
 - d. On-site waste disposal systems shall be located to avoid impairment to them or contamination from them during flooding.

SWCD PERMIT SIGNOFF BY CONTRACTOR

A Conditional Permit for erosion control from the North-Cook Soil and Water Conservation District has been received by Owner on July 30, 2026.

B. However, the Contractor Shall be responsible to obtain final North-Cook SWCD permit signoff by submitting the following.

C. Contractor shall submit details and/or plans as needed in order to obtain permit approval from SWCD (and/or other agencies if required) for in-stream work plan and construction site dewatering plan. Plans as submitted by Contractor shall also be subject to review and/or approval from Owner.

PERIMETER EROSION BARRIER (SILT FENCE)

1. DESCRIPTION:

PERIMETER EROSION BARRIER (SILT FENCE) shall conform to the requirements depicted on Contract Plan Sheet 6, Details # 11 Silt Fence Fastening and # 12 Silt Fence.

2. MATERIALS:

A. SILT FENCE shall meet the AASHTO M288 Standards and IL Urban Manual IL-620A, whichever is more restrictive.

B. Minimum average role values (marv) shall be either 90 lb. Force before the fabric tears for wire-backed silt fence, or 124-lb force with machine direction, or 101-lb. Force perpendicular to the machine direction. Marv permittivity shall meet ASTM d4491 0.05 / sec. Apparent opening size shall meet ASTM d4751 marv 0.024 inches. Uv stability shall meet ASTM d4355 70% retained strength after 500 hours of exposure.

- C. Post spacing shall be max. 4-ft with wire-backed silt fence or with unsupported elongation $\geq 50\%$. Post spacing may be max. 6-ft with unsupported elongation $< 50\%$.
- D. Fence posts shall be either hardwood min. 1.2-in. X 1.2-in. Square or steel with min. 20-in. Depth below grade and 3-ft above grade.

3. INSTALLATIONS

- A. Place the end post of the second fence inside the end post of the first fence.
- B. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
- C. Drive both posts a minimum of 18 inches into the ground and bury the flap.

REMOVE AND DISPOSE OF (SELECTED PART OF EXISTING) CHAIN LINK FENCE

1. DESCRIPTION:

A limited part of the existing approximately 4-foot tall chain link fence on the west side of the proposed project, as designated by location on the Contract Plans, shall be removed and disposed offsite.

2. INSTALLATION

- A. Review field locations for existing fence and gate area to be removed with Owner and Engineer at least 5 days prior to removal of part of the existing chain link fence.
- B. Care shall be taken to avoid disruption of adjacent playground activities during fence removal.
- C. It is possible that the proposed TEMPORARY CONSTRUCTION FENCE may be located in the vicinity of the Chain Link fence scheduled for removal.
- D. While it is not a requirement, at the Contractor's discretion in coordination with the Owner and Engineer, it may be helpful to schedule the removal of the Chain Link fence during the latter part of the project, but before TREE-SHRUB REMOVAL is completed.

USACE ANNUAL MONITORING REPORT

1. DESCRIPTION:

- A. The Owner's permit approval with U.S. Army Corps of Engineers (USACE) includes a 3-year post-construction annual vegetative monitoring report to be reviewed by the Owner and Engineer before it is submitted to USACE.
- B. Contractor shall be responsible to provide staff or a subcontractor with at least 3 years of past experience in the completion and submittal of USACE Annual Monitoring Reports to complete the annual reports at the subject property.
- C. Typically, the report field work is completed in the latter part within the first growing season approximately one year after completion of construction.
- D. The annual report shall be submitted to the Owner and Engineer for review prior to submittal to USACE. Upon approval of the Owner, the report shall be submitted to USACE, typically by January 15 following the completion of the field work.

SWPPP REPORTING

1. DESCRIPTION:

- A. The Owner's permit approval with Illinois EPA includes Stormwater Pollution Prevention Plan (SWPPP) monitoring to be completed by the Contractor.
- B. The Contractor shall comply with all SWPPP monitoring, reporting, and related soil erosion and sediment control maintenance requirements as described in the SWPPP and/or as required by Illinois EPA and the Owner.
- C. Upon request, the Owner will provide the Contractor with the approved IEPA SWPPP permitting paperwork and reporting requirements.

SITE RESTORATION

1. DESCRIPTION:

- A. SITE RESTORATION refers to daily cleanup within and adjacent to the construction site, repair of disturbed areas, and related finished work of construction so as to render the site fully built and passing final walk-through inspection by the Owner and Engineer.

2. MATERIALS

- A. For all disturbed areas that are 5:1 H:V slope or flatter, North American Green (NAG) S75 BN erosion control blanket shall be installed as described in Contract Plan Details and Plans. Erosion blanket shall be installed according to manufacturer's recommendations.

3. INSTALLATION / QUALITY CONTROL

- A. Debris shall be removed from the work area on a daily basis.
- B. All areas disturbed by construction activities including access routes, ingress, egress, and other disturbed areas as well as the existing on-site roads shall be restored as described below. Pre-construction, existing and constructed access routes, compacted areas, ruts or other disturbed areas shall be disked or tilled to a min. 6 inch depth prior to restoration. Suitable on-site topsoil material shall be prepared or spread to a min. 6 inch depth over the restored area. Topsoil placement, if any, shall be finished by disking and raking.
- C. Existing turf grass areas beyond the pond naturalization area shall be restored to turf grass using either seed or sod. If seed is used, turf grass seed mix shall consist of 80 lb/acre broadcast application of kentucky bluegrass, *poa pratensis*, mixed with 80 lb/acre of perennial ryegrass, *lolium perenne*, placed below erosion blanket.
 - Within ten (10) days after seeding and planting are completed, the soil in restored turf grass areas shall be stabilized by turf grass seed and erosion blanket, or sod.
 - Within at least three (3) months of seeding and planting (within the growing season of April through October), at least 90% of the seeded area soil surface will be vegetated and no seeded area will have more than two (2) square feet devoid of vegetative cover.
- D. For all disturbed areas that are 5:1 H:V slope or flatter, North American Green (NAG) S75 BN erosion control blanket shall be installed as described in Contract Plan Details and Plans. Erosion blanket shall be installed according to manufacturer's recommendations.
- E. Watering for all areas shall occur if necessary to maintain growth and vigor of live plant materials (installed potted trees, shrubs, turf, 2-inch potted plugs, or other live container plant materials). Contractor shall provide and maintain all water as well as temporary piping, hoses, and watering equipment.

F. No soil shall be imported to the site without written permission of owner.

G. Tolerances for Ruts and Dirt Clods

- Elevations below the existing shoreline nwl shall be constructed to be free from ruts that are 0.4 ft or larger, and shall contain less than 25% dirt clods that are 3-inch or larger.
- Elevations above the existing shoreline nwl shall be constructed to be free from ruts that are 0.15 ft or larger, and shall contain less than 10% dirt clods that are 3-inch or larger.

H. It shall be the responsibility of the Contractor to guarantee uniform growth of the seeded areas. Any areas not deemed to have acceptable growth by the Engineer shall be reseeded, at no additional cost, regardless of the original planting time.

NATIVE PLANT MAINTENANCE / 3-YEAR VEGETATIVE PERFORMANCE STDS.

1. DESCRIPTION.

Native plant maintenance shall be reimbursed on a lump sum basis, per bid costs, pro-rated according to compliance with vegetative performance standards. The lump sum rate shall include all native plant seed, plugs, trees, shrubs, or other materials, equipment, methods, and practices deemed necessary by the contractor to accomplish the vegetative performance standards.

2. NATIVE VEGETATIVE PERFORMANCE STANDARDS.

1. Shoreline / Streambank / Wetland vegetation performance standards

A. Within ten (10) days after seeding and planting are completed, the soil shall be stabilized by a temporary cover crop and /or erosion blanket.

B. Within at least three (3) months of seeding and planting (within the growing season of April through October), at least 90% of the seeded area soil surface will be vegetated and no seeded area will have more than two (2) square feet devoid of vegetative cover.

C. Within the following specified time periods after seeding and planting (within the growing season of April through October), the stabilization areas shall have the following min. Percent native species coverage by area:

BY 12 MONTHS = 25% COVERAGE BY NATIVE SPECIES

BY 24 MONTHS= 50% COVERAGE BY NATIVE SPECIES

BY 24 MONTHS= NONE OF 3 MOST DOMINANT SPECIES ARE
NON-NATIVE OR INVASIVE (INCLUDING BUT
NOT LIMITED TO TYPHA SPP., PHALARIS
ARUNDINACEA, SALIX SPP., LYTHRUM
SALICARIA, POA PRATENSIS)

BY 36 MONTHS= 75% COVERAGE BY NATIVE SPECIES

BY 36 MONTHS = FLORISTIC QUALITY INDEX (FQI) = 15

BY 36 MONTHS = COEFF. OF CONSERVATISM = 3.0

D. Invasive plant species in all areas within work limits (shoreline, streambanks, wetland, riparian) shall not exceed 15% of the vegetative coverage at any time [species include but not limited to teasel (*dipascus* spp.), cattail (*typha* spp.), garlic mustard (*alliararia officinalis*), reed canarygrass (*phalaris arundinacea*), purple loosestrife (*lythrum salicaria*), canada thistle (*cirsium arvense*),

giant ragweed (*ambrosia trifida*), common ragweed (*ambrosia artemisiifolia*), honeysuckle (*lonicera mackii*; *lonicera x bella*), common buckthorn (*rhamnus cathartica*), yellow clover, white clover, (*melilotus* spp.). Woody invasive species beyond proposed grading area such as buckthorn, honeysuckle, or other invasive species that are not completely removed shall be cut at ground level. Cut stumps shall be treated using garlon applied at manufacturer's recommendations. Contractor shall be responsible for any re-sprouting of cut shrubs or other species.

E. The coverage of phragmites shall be 0%. Existing phragmites shall be removed as required.

3. NATIVE PLANT PLUGS PERFORMANCE STANDARDS:

A. Native plant plug survivorship shall remain at 75% or higher throughout the project site through the end of the vegetative performance time period. Contractor and Engineer shall review plant survivorship between May 15 and September 15. Contractor shall install additional plants to ensure a minimum 80% survivorship at no additional cost to owner. Any irrigation or other maintenance activities performed to meet survivorship shall be performed at a cost incidental to the installation of native plant plugs.

4. NATIVE SHRUB LIVE STAKES VEGETATION PERFORMANCE STANDARDS:

A. Within at least three (3) months of installation of un-rooted shrub live stakes (within the growing season of April through October), the streambank stabilization areas shall have native shrub live stakes covering 40% or more of the density per unit area or bank length as specified on the plans for installation of shrub live stakes.

5. POTTED TREES AND SHRUBS VEGETATIVE PERFORMANCE STANDARDS:

A. Within at least three (3) months of installation of shrubs and trees (within the growing season of April through October), the project area shall have 100% survival of potted trees and shrubs.
B. After 3 months of installation, the survival of potted trees and shrubs shall remain at 100% throughout the vegetative performance period.

6. GUARANTEE

A. Seed and planting procedures not in conformance with these standards and the planting specifications as approved by permitting agencies shall be removed and replaced at no additional cost to the owner.
B. The contractor shall be responsible for and guarantee attainment of final acceptance requirements as outlined in these standards. Where inspected work does not comply with requirements, remedial measures as outlined in these standards will apply.
C. The contractor shall replace rejected work and perform appropriate management until reinspected by the owner and found to be acceptable. Rejected plants and materials shall be removed promptly from the project site at no additional cost to the owner. The contractor shall reseed and/or replant deficient areas at no additional cost to the owner. If measures are not achieved following one (1) remedial seeding effort, the contractor shall install plug materials as part of remedial actions instead of, or in addition to, seed.

7. NATIVE SPECIES MAINTENANCE

A. Native plant maintenance shall be reimbursed on a lump sum basis, per bid costs, pro-rated according to compliance with vegetative performance standards. The lump sum rate shall include

all native plant seed, plugs, trees, shrubs, or other materials, equipment, methods, and practices deemed necessary by the contractor to accomplish the vegetative performance standards (these items shall be incidental to the cost of the lump sum rate). Contractor retain qualified native plant identification & maintenance personnel with state of Illinois Department Of Agriculture pesticide applicator or operator licensure to perform native plant maintenance for duration described in contract following installation of all native plant materials. Areas to be maintained include all work limit areas containing native plants or invasive species at the project site.

B. The contractor shall maintain native plant material to conform to vegetative performance criteria. A minimum four (4) annual weed control applications shall occur per the following general schedule:

- I. APPLICATION # 1 (MAY 20 TO JUNE 10).
- II. APPLICATION # 2 (JUNE 25 TO JULY 5).
- III. APPLICATION # 3 (JULY 20 TO JULY 30)
- IV. APPLICATION # 4 (AUGUST 20 TO SEPT. 5)

One (1) annual early spring cut or mow of plantings with removal of cut material to offsite disposal in approved facility. Additional maintenance may be needed to meet the minimum performance. Additional maintenance may be needed to meet the minimum performance.

C. Contractor shall conduct site inspections with Owner And Owner's Representative to review weed control locations. Site inspections shall occur both before and after weed control applications for satisfactory performance.

8. NATIVE SPECIES MANAGEMENT TECHNIQUES:

A. Example maintenance practices may include watering, spot-herbicide, hand removal, burning (except for vegetated geogrid, coir log if applicable, or areas with permanent erosion blanket), mowing, or other native plant management techniques. Contractor shall maintain native plant material as necessary to meet the minimum performance requirements.

B. Watering shall occur if necessary to maintain growth and vigor of live plant materials (installed potted trees, shrubs, 2-inch potted plugs, or other live container plant materials).

C. The cost of native plant maintenance shall be itemized for 3-year native plant maintenance.

PRE-CONSTRUCTION VIDEO

The Contractor shall be required to prepare and submit a pre-construction Video recording of construction areas, including but not limited to existing roadways, curbs, driveways, sidewalks, parkways, asphalt, sidewalk, or street access areas, within 2 weeks prior to construction. Video shall record the current date, project name, location and time. The camera shall travel at a speed not exceeding 5 mph, with good visibility. Panning rates shall provide clarity of the viewed objects during playback. The Village has the authority to designate what areas may be omitted or added for audio-video coverage. Video shall be recorded during regular business hours. The Village has the authority to reject video tape not conforming to these specifications. Video recordings found not acceptable shall be done over at no cost to the Owner. The video shall become property of the Village of Hoffman Estates.

CLASS D PATCH, SPECIAL, 6"

This work consists of removal and replacement of the existing pavement in accordance with the applicable portions of Section 442 of the Standard Specifications and as modified herein.

The Village in the field will determine actual limits of removal and replacement.

The Contractor shall saw cut a clean joint between the portion of pavement to be removed and that to be left in place. This is to prevent damage to the remaining surface when the pavement is broken out and the saw cutting shall be considered incidental to this pay item. The patching shall consist of removal and disposal of all pavement materials including, but not limited to, hot-mix asphalt, sub-base, and stone, to the specified depth. The area to be patched shall then be leveled and compacted. The patch shall be completed using the appropriate mix type as referenced on the Hot-Mix Asphalt Mixture Requirement chart.

This work shall include all labor, equipment, materials and incidentals required to complete the work described above.

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

Hot-mix asphalt driveways shall be constructed in accordance with the applicable portions of Section 406 of the Standard Specifications and the details shown in the plans.

The saw cutting on the existing bituminous apron shall not be paid for separately, but shall be considered incidental to this pay item.

HMA driveway pavement construction shall consist of 3-inch HMA Surface placed on approved subgrade.

This work will include all labor, equipment, materials, clean up, disposal of material, and incidentals required to complete the work described.

PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)

This work shall be done in accordance with Section 423 of the Standard Specifications and as modified herein at locations shown on the Plans or designated by the Engineer in the field.

Any necessary excavation required to bring the sub grade to proper elevation shall be considered incidental to this pay item.

Pavement construction shall consist of Portland Cement Concrete (OF THICKNESS SPECIFIED), with synthetic fibers along with 4 inches of compacted CA-6, crushed stone base placed on approved sub grade. The stone shall meet IDOT subgrade requirements. The saw cutting on the existing concrete aprons shall not be paid for separately, but shall be considered incidental to the contract.

Furnishing, placing, and compacting the stone base shall be considered incidental to this pay item. Any additional aggregate needed to bring the base to the proper depth shall be considered incidental to this pay item.

All formwork must be approved by the Engineer prior to completing work. All concrete forms shall be sized properly to cover the entirety of the slab thickness.

The Contractor shall be available to complete private concrete work in the right-of-way. This would consist of driveway aprons or sidewalk at the cost and request of private property owners, if applicable.

This work shall include all labor, equipment, materials and incidentals to complete the work described above.

PORTLAND CEMENT CONCRETE SIDEWALK, 5"

This work shall consist of constructing a Portland Cement Concrete Sidewalk on a prepared sub grade in accordance with Section 424 of the Standard Specifications at locations shown on the plans or designated by the Engineer in the field.

Any necessary excavation required to bring the sub grade to proper elevation shall NOT be paid for separately and shall be considered included in the cost of this pay item.

Sidewalk construction shall consist of 5 inch thick Portland Cement Concrete with 4 inches of compacted CA-6, crushed stone placed on approved sub grade. Concrete sidewalks marked for replacement within driveway areas shall be installed 6 inches thick. The saw cutting on the existing concrete sidewalks shall not be paid for separately, but shall be considered included in the cost of this pay item.

All formwork must be approved by the Engineer prior to completing work. All concrete forms shall be sized properly to cover the entirety of the slab thickness. Also, the formwork must be installed in a manner to allow for the Engineer to properly determine sidewalk cross slope.

At all sidewalk ramps for the handicapped, work shall be completed in accordance with Project Details and Standards 424001, 424016, 424021, and 424026.

This work shall be paid for at the Contract Unit Price per square foot for PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH which price shall include all labor, equipment, materials and incidentals necessary to complete this item described above.

AS-BUILT DRAWINGS

Contractor shall, not later than the time it gives the notice of completion and request for approval provide to the Village three sets of “as-built” or “record” drawings for all of the Improvements, including one set in digital format (see below.). The Village must receive, review and approve "as-built" plans for the project, certified by an Illinois Licensed Professional Engineer, which shall indicate, all geometric changes to ravine, bluff, limits of stabilization treatments, new or adjusted utilities, outlet structures, special structures, overflow structures, verification of right-of-way markers/property corners, changes in benchmarks or control points, all sewer locations, culverts, pipes, tanks, field tile (abandoned or not), manholes, catch basins, inlets, stubs, berms, channels, swales, and related features relevant to the proposed project.

Village will review the “as-built” drawings and compare them with the approved final engineering drawings including plan view, cross sections, and other information as relevant. In addition, the Village will conduct any field inspections necessary to ensure the validity of the “as-built” plans. If in the opinion of the Village Surveyor & Engineer there are unacceptable differences in these two drawings, the contractor will correct these differences. The approval of the “as-built” plans shall occur prior to release of the Letter of Credit, or other securities.

Any revisions to previous submitted engineering plans, either before or after Village approval, shall be duly noted on the plans with revision dates, revision numbers and highlighting the change. All revisions must also be itemized in a letter to accompany the revised engineering plans.

Upon acceptance of hard copy of the As- Built drawings, these drawings should be submitted in digital format and submitted to the Village Engineer as .pdf as well as in .dwg file format. The As-Built drawings shall be submitted with final improvements shown, noting changes from the original construction plans.

DRAINAGE AND INLET PROTECTION UNDER TRAFFIC (~~BDED~~D1)

Effective: April 1, 2011

Revised: April 2, 2011

Add the following to Article 603.02 of the Standard Specifications:

- “(i) Temporary Hot-Mix Asphalt (HMA) Ramp (Note 1) 1030
- “(j) Temporary Rubber Ramps (Note 2)

Note 1. The HMA shall have maximum aggregate size of 3/8 in. (95 mm).

Note 2. The rubber material shall be according to the following.

Property	Test Method	Requirement
Durometer Hardness, Shore A	ASTM D 2240	75 ±15
Tensile Strength, psi (kPa)	ASTM D 412	300 (2000) min
Elongation, percent	ASTM D 412	90 min
Specific Gravity	ASTM D 792	1.0 - 1.3
Brittleness, °F (°C)	ASTM D 746	-40 (-40)”

Revise Article 603.07 of the Standard Specifications to read:

“603.07 Protection Under Traffic. After the casting has been adjusted and the Class PP concrete has been placed, the work shall be protected by a barricade and two lights according to Article 701.17(e)(3)b.~~After the casting has been adjusted and Class SI concrete has been placed, the work shall be protected by a barricade and two lights for at least 72 hours.~~

When castings are under traffic before the final surfacing operation has been started, properly sized temporary ramps shall be placed around the drainage and/or utility castings according to the following methods.

- (a) Temporary Asphalt Ramps. Temporary hot-mix asphalt ramps shall be placed around the casting, flush with its surface and decreasing to a featheredge in a distance of 2 ft (600 mm) around the entire surface of the casting.
- (b) Temporary Rubber Ramps. Temporary rubber ramps shall only be used on roadways with permanent posted speeds of 40 mph or less and when the height of the casting to be protected meets the proper sizing requirements for the rubber ramps as shown below.

Dimension	Requirement
Inside Opening	Outside dimensions of casting + 1 in. (25 mm)
Thickness at inside edge	Height of casting $\pm$ 1/4 in. (6 mm)
Thickness at outside edge	1/4 in. (6 mm) max.
Width, measured from inside opening to outside edge	8 1/2 in. (215 mm) min

Placement shall be according to the manufacturer's specifications.

Temporary ramps for castings shall remain in place until surfacing operations are undertaken within the immediate area of the structure. Prior to placing the surface course, the temporary ramp shall be removed. Excess material shall be disposed of according to Article 202.03."

PUBLIC CONVENIENCE AND SAFETY (D1)

Effective: May 1, 2012

Revised: July 15, 2012

Add the following to the end of the fourth paragraph of Article 107.09:

"If the holiday is on a Saturday or Sunday, and is legally observed on a Friday or Monday, the length of Holiday Period for Monday or Friday shall apply."

Add the following sentence after the Holiday Period table in the fourth paragraph of Article 107.09:

"The Length of Holiday Period for Thanksgiving shall be from 5:00 AM the Wednesday prior to 11:59 PM the Sunday After"

Delete the fifth paragraph of Article 107.09 of the Standard Specifications:

"On weekends, excluding holidays, roadways with Average Daily Traffic of 25,000 or greater, all lanes shall be open to traffic from 3:00 P.M. Friday to midnight Sunday except where structure construction or major rehabilitation makes it impractical."

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION
FOR
INSURANCE

Effective: February 1, 2007
Revised: August 1, 2007

All references to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

The Contractor shall name the following entities as additional insured under the Contractor's general liability insurance policy in accordance with Article 107.27:

Village of Hoffman Estates, Hoffman Estates Park District, and Living Waters Consultants

The entities listed above and their officers, employees, and agents shall be indemnified and held harmless in accordance with Article 107.26.



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, CHICAGO DISTRICT
231 SOUTH LA SALLE STREET, SUITE 1500
CHICAGO IL 60604-1437

July 27, 2026

Regulatory Division (LRC-2026-00227)

SUBJECT: Nationwide Permit 27 Authorization for the Community Park Pond Restoration Project, Located at 925 Grand Canyon Parkway, Hoffman Estates, Cook County, Illinois (Latitude 42.044144°N, Longitude -88.086705°W)

Eric Palm
Village of Hoffman Estates
1900 Hassell Road
Hoffman Estates, Illinois 60169

Dear Mr. Palm:

The U.S. Army Corps of Engineers, Chicago District, has completed its review of your pre-construction notification for the above referenced project, for authorization under the Nationwide Permit (NWP) Number 27 (NWP 27 Aquatic Ecosystem Restoration, Enhancement, and Establishment Activities), submitted on your behalf by Living Waters Consultants, Inc.

This determination covers only your project as described above and in the enclosed approved project plans titled, "Community Park Pond Restoration Project, 925 Grand Canyon Parkway, Village of Hoffman Estates, Illinois", dated January 1, 2026, prepared by Living Waters Consultants, Inc. Caution must be taken to prevent construction materials and activities from impacting waters of the United States beyond the scope of this authorization. If the design, location, or purpose of the project is changed, it is recommended that you contact this office to determine the need for further authorization.

The subject activity may be performed without further authorization from this office provided that the activity complies with the NWP terms and general conditions, the regional conditions for Illinois, the special conditions listed below, and the Section 401 Water Quality Certification ("WQC") conditions added by the Illinois Environmental Protection Agency ("IEPA"). The NWP Program terms, general conditions, and regional conditions are listed in the enclosed NWP Summary. The WQC conditions are listed in the enclosed Fact Sheet.

Specifically, we wish to draw your attention to General Condition 21, which requires permittees to notify our office immediately in the event of discovery of previously unknown human remains, Native American cultural items, or archaeological artifacts; and a term of the NWP program, which states that NWPs do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law.

In addition to the general, regional, and water quality conditions of this permit verification, the following special conditions also apply to this verification:

1. You must provide written notification to this office at least ten (10) days prior to commencement of work indicating the start date and estimated end date of construction. If possible, this notification should be provided by email to kimberly.j.kubiak@usace.army.mil.
2. A copy of this authorization must be present at the project site during all phases of construction.
3. Prior to the commencement of any work, you must receive a determination by the North Cook County SWCD, that the Soil Erosion and Sediment Control (SESC) plans meet technical standards.
4. This authorization is contingent upon implementing and maintaining soil erosion and sediment controls in a serviceable condition throughout the duration of the project. You must comply with the North Cook County Soil and Water Conservation District (NCCSWCD) verbal recommendations and written approval of the project's soil erosion and sediment control (SESC) plans. In addition, you must comply with the manufacturer's installation recommendations for each measure implemented during construction of the project and remain compliant through daily maintenance of installed SESC practices.
 - a. You must schedule a preconstruction meeting with this office and the SWCD to discuss the project's SESC plans and provide a schedule for the installation and daily maintenance of all approved SESC measures. You must contact this office and the SWCD at least 10 calendar days prior to the preconstruction meeting so that a representative may attend.
 - b. You must notify this office and the SWCD of any changes or modifications to the approved plan set. Field conditions during project construction may require the implementation of additional SESC measures. If you fail to implement corrective measures, this office will require more frequent site inspections to confirm compliance with the permit conditions.
 - c. Prior to commencement of any in-stream work, you must submit an in-stream work plan and narrative of the contractor's proposed method of cofferdam and dewatering to this office and the SWCD. Work in the waterway must NOT commence until the SWCD notifies you, in writing, that the plans have been approved.
5. Work in the waterway should be timed to take place during low or no-flow conditions.

6. The plan must be designed to allow for the conveyance of the 2-year peak flow past the work area without overtopping the cofferdam. The Corps has the discretion to reduce this requirement if documented by the applicant to be infeasible or unnecessary.
7. Water must be isolated from the in-stream work area using a cofferdam constructed of non-erodible materials (steel sheets, aqua barriers, rip rap and geotextile liner, etc.). Earthen cofferdams are not permissible.
8. The cofferdam must be constructed from the upland area and no equipment may enter flowing water at any time. If the installation of the cofferdam cannot be completed from shore and access is needed to reach the area to be coffered, other measures, such as the construction of a causeway, will be necessary to ensure that equipment does not enter the water. Once the cofferdam is in place and the isolated area is dewatered, equipment may enter the coffered area to perform the required work.
9. If bypass pumping is necessary, the intake hose must be placed on a stable surface or floated to prevent sediment from entering the hose. The bypass discharge must be placed on a non-erodible, energy dissipating surface prior to rejoining the stream flow and must not cause erosion. Filtering of bypass water is not necessary unless the bypass water has become sediment laden as a result of the current construction activities.
10. During dewatering of the coffered work area, all sediment-laden water must be filtered to remove sediment. Possible options for sediment removal include baffle systems, anionic polymers systems, dewatering bags, or other appropriate methods. Water must have sediment removed prior to being re-introduced to the downstream waterway. A stabilized conveyance from the dewatering device to the waterway must be identified in the plan. Discharge water is considered clean if it does not result in a visually identifiable degradation of water clarity.
11. The portion of the side slope that is above the observed water elevation must be stabilized as specified in the plans prior to accepting flows. The substrate and toe of slope that has been disturbed due to construction activities must be restored to proposed or pre-construction conditions and fully stabilized prior to accepting flows.
12. You must fully implement the practices identified in the Restoration Plan titled, "Community Park Pond Restoration Project, Village of Hoffman Estates, Management and Monitoring (M&M) Guidelines, LRC-2026-227", dated May 18, 2026, prepared by Living Waters Consultants, Inc. within the first year of project construction. All BMP's must meet performance criteria in accordance with the approved document. Your responsibility to complete the plan will not be considered fulfilled until you demonstrate BMP success and have received written sign-off from this office.

Please note that IEPA has issued Section 401 Water Quality Certification for this NWP. The conditions of this WQC are automatically conditions of this NWP verification and are included in the enclosed Fact Sheet. If you have any questions regarding Section 401 certification, please contact IEPA's Division of Water Pollution Control, Permit Section #15, by telephone at (217) 785-6939.

This verification is valid until March 15, 2031, when NWP 27 is scheduled to be modified, reissued, or revoked. Furthermore, if you commence or are under contract to commence this activity before the date the NWP is modified, reissued, or revoked, you will have 12 months from the date of the modification, reissuance or revocation to complete the activity under the present terms and conditions. Failure to comply with the general and regional conditions of this NWP, or any project-specific special conditions of this authorization, may result in the suspension or revocation of your authorization.

Once you have completed the authorized activity, please sign and return the enclosed compliance certification as required by General Condition 30. If you have any questions, please contact Ms. Kimberly Kubiak of this office by telephone at (312) 846-5541, or email at Kimberly.J.Kubiak@usace.army.mil.

Sincerely,

Kimberly J. Kubiak
Project Manager
Regulatory Branch

Enclosures

cc:

Metropolitan Water Reclamation District of Greater Chicago (Patrick Jensen)
North Cook County SWCD (Rick McAndless)
Living Waters Consultants, Inc. (Ted Gray)



**PERMIT COMPLIANCE
CERTIFICATION**

Permit Number: LRC-2026-00227
Permittee: Eric Palm
Village of Hoffman Estates
Date: July 27, 2026

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of said permit and if applicable, compensatory wetland mitigation was completed in accordance with the approved mitigation plan.¹

PERMITTEE

DATE

Within 30 days after completion of the activity authorized by this permit and any mitigation required by the permit, this certification must be signed and returned to the following address:

Email to: ChicagoRequests@usace.army.mil
Subject: Compliance Certification, LRC-2026-00227

Please note that your permitted activity is subject to compliance inspections by Corps of Engineers representatives. If you fail to comply with this permit, you may be subject to permit suspension, modification, or revocation.

¹ If compensatory mitigation was required as part of your authorization, you are certifying that the mitigation area has been graded and planted in accordance with the approved plan. You are acknowledging that the maintenance and monitoring period will begin after a site inspection by a Corps of Engineers representative or after thirty days of the Corps' receipt of this certification. You agree to comply with all permit terms and conditions, including additional reporting requirements, for the duration of the maintenance and monitoring period.



**VILLAGE OF HOFFMAN ESTATES
SALES TAX EXEMPTION NUMBER AUTHORIZATION FORM**

The undersigned contractor hereby agrees to use the Village of Hoffman Estates sales tax exemption number only for purchases directly related to work being done on behalf of the Village. The undersigned also agrees to be responsible for any tax due for purchases determined to be non-exempt and for purchases not made on the Village's behalf.

It is understood that the exemption from tax in the case of the sales of articles is limited to the sales of articles purchased for the exclusive use of the Village and it is agreed that if articles purchased tax free are used otherwise or are sold to others, such fact will be reported to the State of Illinois Department of Revenue. It is also understood that the fraudulent use of the exemption number to secure exemptions will subject the undersigned and all guilty parties to a fine of not more than \$10,000 or to imprisonment for not more than five years or both, together with costs of prosecutions.

NAME OF PROJECT AND/OR CONTRACT NUMBER

COMPANY NAME

ADDRESS

CITY

ZIP CODE

PURCHASER NAME & TITLE (PLEASE PRINT)

SIGNATURE

DATE

Before a Tax Exemption Letter is issued to the contractor, this form and the materials and estimated quantities form must be returned to the appropriate Village personnel. After the completed forms have been received by the Village, a Tax Exempt Letter will be mailed to the contractor.

VILLAGE OF HOFFMAN ESTATES
MATERIALS AND ESTIMATED QUANTITIES ATTACHMENT

DESCRIPTION OF MATERIALS TO BE PURCHASED	ESTIMATED QUANTITY	NAME OF VENDOR SELLING MATERIALS	VENDOR PHONE NUMBER	VENDOR'S STREET ADDRESS	VENDOR'S CITY, STATE, AND ZIP CODE
1)					
2)					
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					