NOTICE TO BID

For work to be constructed under the provisions of the Standard Specifications for Road and Bridge Construction by the Illinois Department of Transportation, current edition.

Sealed proposals for the improvement described herein will be received at the Office of the Village Clerk of the Village of Hoffman Estates, Cook County, Illinois, until **10:00 a.m., November 4, 2024**. Immediately following, the sealed bids will be opened and read publicly in the Frank Alexa Training Room, 1900 Hassell Road, Hoffman Estates, IL 60169.

The proposed work is officially known as **Huntington Boulevard Water Main Replacement Project.**

The proposed improvements include the installation of approximately 2,800 feet of 18" HDPE water main by directional drill, valves and hydrants, restoration and traffic control.

Plans and proposal forms are available for download from the Village of Hoffman Estates website at www.hoffmanestates.org/business/rfps-rfqs-bids beginning October 14, 2024.

All proposals must be accompanied by a proposal guaranty as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals contained in the "Supplemental Specifications and Recurring Special Provisions".

The Village of Hoffman Estates strongly encourages minority firms and women's business enterprises to apply. If subcontracts are to be let, the primary contractor shall take these same affirmative steps to solicit bids from minority and women's firms.

The Village of Hoffman Estates reserves the right to reject any or all proposals and waive any informality in bidding and to accept the proposal deemed most advantageous to it, all in BLRS Special Provision for Contract Proposals contained in the "Supplemental Specifications and Recurring Special Provisions".

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

_____

Patty Richter
Village Clerk

Date of Publication: 10/14/2024

Illinois Department of Transportation

Local Public Agency
Formal Contract Proposal

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: 22711

Route(s) (Street/Road Name): Huntington Blvd. | Type of Funds: 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: President of Board of Trustees

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	22711	Huntington Blvd.

NOTICE TO BIDDERS

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

1900 Hassell Road, Hoffman Estates, Illinois, 60169 until 10:00 AM on 11/04/24.
Address Time Date

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

1900 Hassell Road, Hoffman Estates, Illinois, 60169 at 10:00 AM on 11/04/24.
Address Time Date

DESCRIPTION OF WORK

Location	Project Length
Huntington Blvd.	2,900

Proposed Improvement

Construction of new 18" HDPE water main installed by horizontal directional drilling.

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

Plans and proposal forms are available for download from the Village of Hoffman Estates website at www.hoffmanestates.org/business/...

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:
   a. Local Public Agency Formal Contract Proposal (BLR 12200)
   b. Schedule of Prices (BLR 12201)
   c. Proposal Bid Bond (BLR 12230) (if applicable)
   d. Apprenticeship or Training Program Certification (BLR 12325) (do not use for project with Federal funds.)
   e. 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	22711	Huntington Blvd.

PROPOSAL

1. Proposal of _____
Contractor's Name

_____.
Contractor's Address

2. The plans for the proposed work are those prepared by the Village of Hoffman Estates 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 09/05/25 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	22711	Huntington Blvd.

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 of 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 or 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	22711	Huntington Blvd.

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

Secretary

Attest:

Secretary

Treasurer

Illinois Department of Transportation

Schedule of Prices

Contractor's Name

Contractor's Address | City | State | Zip Code

Local Public Agency: Village of Hoffman Estates | County: Cook | Section Number: 22711

Route(s) (Street/Road Name): Huntington Blvd.

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
1	PERIMETER EROSION	FOOT	305		
	BARRIER				
2	CONNECT TO EXISTING	EACH	1		
	WATER MAIN				
3	FURNISH AND PLACING	SQ YD	367		
	TOPSOIL, 6"				
4	EROSION CONTROL	SQ YD	367		
	BLANKET (EXCELSIOR)				
5	SEEDING, CLASS 1A	ACRE	0.065		
6	SEEDING, CLASS 4	ACRE	0.010		
7	HOT-MIX SHOULDERS, 8"	SQ YD	63		
8	SUBBASE GRANULAR	SQ YD	63		
	MATERIAL, TYPE C, 4"				
9	NITROGEN FERTILIZER	POUND	7		
	NUTRIENT				
10	POTASSIUM FERTILIZER	POUND	7		
	NUTRIENT				
11	FIRE HYDRANT REMOVAL	EACH	2		
	WITH RESTORATION				
12	FIRE HYDRANT WITH	EACH	4		
	AUXILIARY VALVE AND				
	VALVE BOX				
13	GATE VALVE 16" WITH	EACH	3		
	VAULT, 5' DIAMETER				

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Hoffman Estates	Cook	22711	Huntington Blvd.

Item Number	Items	Unit	Quantity	Unit Price	Total
14	PRESSURE CONNECTION	EACH	1		
	WITH TAPPING SLEEVE				
	16" VALVE				
15	TRAFFIC CONTROL	L SUM	1		
	AND PROTECTION				
16	VALVE VAULT	EACH	3		
	ABANDONMENT WITH				
	RESTORATION				
17	WATER MAIN, 16" DUCTILE	FOOT	114		
	IRON PIPE				
18	WATER MAIN, 18" HDPE	FOOT	2799		
	DIRECTIONAL DRILLED				
19	WATER MAIN TO BE	EACH	3		
	ABANDONED (WITH CUT &				
	CAP)				
				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.

Illinois Department of Transportation

Local Public Agency Proposal Bid Bond

Local Public Agency	County	Section Number
Village of Hoffman Estates	Cook	22711

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 _____ (Day) of _____ (Month and Year)

Principal

Company Name	Company Name
Signature & Date	Signature & Date
By:	By:
Title	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) day of _____ (Month and Year) .

Notary Public Signature & Date

(SEAL, if required by the LPA)

Date commission expires _____

Local Public Agency	County	Section Number
Village of Hoffman Estates	Cook	22711

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

Illinois Department of Transportation

Apprenticeship and Training Program Certification

Local Public Agency	County	Street Name/Road Name	Section Number
Village of Hoffman Estates	Cook	Huntington Blvd.	22711

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

Illinois Department of Transportation

Affidavit of Illinois Business Office

Local Public Agency	County	Street Name/Road Name	Section Number
Village of Hoffman Estates	Cook	Huntington Blvd.	22711

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 _____

Illinois Department of Transportation

Affidavit of Availability

For the Letting of

Bureau of Construction
2300 South Dirksen Parkway/Room 322
Springfield, IL 62764

Instructions: Complete this form by either typing or using black ink. "Authorization to Bid" will not be issued unless both sides of this form are completed in detail. Use additional forms as needed to list all work.

Part I. Work Under Contract

List below all work you have under contract as either a prime contractor or a subcontractor. It is required to include all pending low bids not yet awarded or rejected. In a joint venture, list only that portion of the work which is the responsibility of your company. The uncompleted dollar value is to be based upon the most recent engineer's or owners estimate, and must include work subcontracted to others. If no work is contracted, show NONE.

	1	2	3	4	Awards Pending	Accumulated Totals
Contract Number						
Contract With						
Estimated Completion Date						
Total Contract Price						
Uncompleted Dollar Value if Firm is the Prime Contractor						
Uncompleted Dollar Value if Firm is the Subcontractor						
					Total Value of All Work	

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

List below the uncompleted dollar value of work for each contract and awards pending to be completed with your own forces. All work subcontracted to others will be listed on the reverse of this form. In a joint venture, list only that portion of the work to be done by your company. If no work is contracted, show NONE.

Earthwork						
Portland Cement Concrete Paving						
HMA Plant Mix						
HMA Paving						
Clean & Seal Cracks/Joints						
Aggregate Bases, Surfaces						
Highway, R.R., Waterway Struc.						
Drainage						
Electrical						
Cover and Seal Coats						
Concrete Construction						
Landscaping						
Fencing						
Guardrail						
Painting						
Signing						
Cold Milling, Planning, Rotomilling						
Demolition						
Pavement Markings (Paint)						
Other Construction (List)						
Totals						

Disclosure of this information is REQUIRED to accomplish the statutory purpose as outlined in the “Illinois Procurement Code." Failure to comply will result in non-issuance of an "Authorization To Bid." This form has been approved by the State Forms Management Center.

Part III. Work Subcontracted to Others.

For each contract described in Part I, list all the work you have subcontracted to others.

	1	2	3	4	Awards Pending
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted					

Notary

I, being duly sworn, do hereby declare this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates.

Officer or Director

Title

Signature

Date

Company

Address

City

State

Zip Code

Subscribed and sworn to before me

this _____ day of _____ , _____

_____

(Signature of Notary Public)

My commission expires _____

(Notary Seal)

☐ Add pages for additional contracts

Illinois Department of Transportation

Affidavit of Availability

For the Letting of

Bureau of Construction
2300 South Dirksen Parkway/Room 322
Springfield, IL 62764

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Part I. Work Under Contract

List below all work you have under contract as either a prime contractor or a subcontractor. It is required to include all pending low bids not yet awarded or rejected. In a joint venture, list only that portion of the work which is the responsibility of your company. The uncompleted dollar value is to be based upon the most recent engineer's or owners estimate, and must include work subcontracted to others. If no work is contracted, show NONE.

	1	2	3	4	Awards Pending	Accumulated Totals
Contract Number						
Contract With						
Estimated Completion Date						
Total Contract Price						
Uncompleted Dollar Value if Firm is the Prime Contractor						
Uncompleted Dollar Value if Firm is the Subcontractor						
					Total Value of All Work	

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

List below the uncompleted dollar value of work for each contract and awards pending to be completed with your own forces. All work subcontracted to others will be listed on the reverse of this form. In a joint venture, list only that portion of the work to be done by your company. If no work is contracted, show NONE.

Earthwork						
Portland Cement Concrete Paving						
HMA Plant Mix						
HMA Paving						
Clean & Seal Cracks/Joints						
Aggregate Bases, Surfaces						
Highway, R.R., Waterway Struc.						
Drainage						
Electrical						
Cover and Seal Coats						
Concrete Construction						
Landscaping						
Fencing						
Guardrail						
Painting						
Signing						
Cold Milling, Planning, Rotomilling						
Demolition						
Pavement Markings (Paint)						
Other Construction (List)						
Totals						

Disclosure of this information is REQUIRED to accomplish the statutory purpose as outlined in the “Illinois Procurement Code." Failure to comply will result in non-issuance of an "Authorization To Bid." This form has been approved by the State Forms Management Center.

Part III. Work Subcontracted to Others.

For each contract described in Part I, list all the work you have subcontracted to others.

	2	3	4	Awards Pending	1
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted					

Notary

I, being duly sworn, do hereby declare this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates.

Officer or Director

Title

Signature

Date

Company

Address

City

State

Zip Code

Subscribed and sworn to before me

this _____ day of _____ , _____

_____

(Signature of Notary Public)

My commission expires _____

(Notary Seal)

☐ Add pages for additional contracts

Illinois Department of Transportation

Affidavit of Availability

For the Letting of

Bureau of Construction
2300 South Dirksen Parkway/Room 322
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Part I. Work Under Contract

List below all work you have under contract as either a prime contractor or a subcontractor. It is required to include all pending low bids not yet awarded or rejected. In a joint venture, list only that portion of the work which is the responsibility of your company. The uncompleted dollar value is to be based upon the most recent engineer's or owners estimate, and must include work subcontracted to others. If no work is contracted, show NONE.

	1	2	3	4	Awards Pending	Accumulated Totals
Contract Number						
Contract With						
Estimated Completion Date						
Total Contract Price						
Uncompleted Dollar Value if Firm is the Prime Contractor						
Uncompleted Dollar Value if Firm is the Subcontractor						
					Total Value of All Work	

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

List below the uncompleted dollar value of work for each contract and awards pending to be completed with your own forces. All work subcontracted to others will be listed on the reverse of this form. In a joint venture, list only that portion of the work to be done by your company. If no work is contracted, show NONE.

Earthwork						
Portland Cement Concrete Paving						
HMA Plant Mix						
HMA Paving						
Clean & Seal Cracks/Joints						
Aggregate Bases, Surfaces						
Highway, R.R., Waterway Struc.						
Drainage						
Electrical						
Cover and Seal Coats						
Concrete Construction						
Landscaping						
Fencing						
Guardrail						
Painting						
Signing						
Cold Milling, Planning, Rotomilling						
Demolition						
Pavement Markings (Paint)						
Other Construction (List)						
Totals						

Disclosure of this information is REQUIRED to accomplish the statutory purpose as outlined in the “Illinois Procurement Code." Failure to comply will result in non-issuance of an "Authorization To Bid." This form has been approved by the State Forms Management Center.

Part III. Work Subcontracted to Others.

For each contract described in Part I, list all the work you have subcontracted to others.

	1	2	3	4	Awards Pending
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
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Amount Uncompleted					
Total Uncompleted					

Notary

I, being duly sworn, do hereby declare this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates.

Officer or Director

Title

Signature

Date

Company

Address

City

State

Zip Code

Subscribed and sworn to before me

this _____ day of _____ , _____

_____

(Signature of Notary Public)

My commission expires _____

(Notary Seal)

☐ Add pages for additional contracts

Illinois Department of Transportation

Affidavit of Availability

For the Letting of

Bureau of Construction
2300 South Dirksen Parkway/Room 322
Springfield, IL 62764

Instructions: Complete this form by either typing or using black ink. "Authorization to Bid" will not be issued unless both sides of this form are completed in detail. Use additional forms as needed to list all work.

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Illinois Department of Transportation

Special Provisions

Local Public Agency	County	Section Number
Village of Hoffman Estates	Cook	22711

The following Special Provision supplement the "Standard Specifications for Road and Bridge Construction", adopted January 1, 2022, 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 Specification and Recurring Special Provisions indicated on the Check Sheet included here in which apply to and govern the construction of the above named section, and in case of conflict with any parts, or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

(See following special provisions)

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ATTACHMENTS

APPENDICES

A. CHECK SHEET FOR RECURRING SPECIAL PROVISIONS
B. BDE SPECIAL PROVISIONS
C. LOCAL ROADS AND STREETS SPECIAL PROVISIONS
D. VILLAGE OF HOFFMAN ESTATES SALES TAX EXEMPTION NUMBER AUTORIZATION FORM
E. VILLAGE OF HOFFMAN ESTATES MATERIALS AND ETIMATED QUANTITIES ATTACHMENT
F. DCEO BEP UTILIZATION PLAN
G. GEOTECHNICAL REPORT
H. LPC-663 AND ANALYTICAL REPORTS
I. WETLANDS REPORT
J. PERMITS
K. CERTIFICATION OF BIDDER'S EXPERIENCE
L. CONTRACT FORM & VILLAGE'S PAYMENT AND PERFORMANCE SURETY BOND FORM

VILLAGE OF HOFFMAN ESTATES
HUNTINGTON BLVD. WATER MAIN REPLACEMENT

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 in the appendix, "BDE Special Provisions" indicated on the check sheet included in the appendix, Bureau of Local Roads and Streets special provisions included in the appendix, which apply to and govern the construction, 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

In general, the nature of the improvements will consist of replacing the existing water main infrastructure with a new upgraded transmission main for enhancement of water quality and maintaining service area redundancy, overall site restoration and all incidental and collateral work necessary to complete the project as shown on the plans and described herein.

THE PLANS AND BID PACKAGE REFLECT DIRECTIONAL DRILLED METHODS FOR MAIN LINE WATER MAIN CONSTRUCTION.

The Village reserves the right to eliminate or postpone work on any portion of the project.

All steel and iron products shall be American made.

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 excavation, backfill operations, water main and water main appurtenances installation, construct all base and surface courses, and such additional, extra, and incidental construction as may be necessary to complete the work 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.

Shutdown of existing water mains and connections to proposed water main shall be coordinated with the Village. The Contractor shall provide minimum 5 business days' notice of anticipated shutdown.

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 three 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.

RESIDENT NOTIFICATION

The Contractor shall be responsible for providing written notification to all residents within the project limits. Notification must be given as follows:

Three (3) days prior to work commencing, and three (3) days prior to residents losing access to their homes.

The Village will provide the Contractor with sample notification letters. The Engineer must approve any deviations from this format.

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. Weekend work requires a request with a minimum of 3 days' advanced notice, subject to approval by the Public Works Director. No work must be performed prior to or beyond this period.

PROJECT SCHEDULE

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 for water main work in accordance with article 108.02 of the Standard Specifications. Once approved, the Contractor must 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. WATER MAIN

The Contractor must complete the work within nine weeks once they start the work. The Contractor shall give the Village thirty days written notice before starting the work. The Contractor can elect when to start the work following receiving notice to proceed as long all the work is completed by September 5, 2025.

Revised Article 108.05 of the Standard Specifications as follows:

"The Contractor shall complete all contract items by **September 5, 2025**."

If the project is not completed within the above time frame, the Contractor is susceptible to any and all liquidated damages provided for in this special provision.

B. The project schedule must incorporate the following restrictions:

1. None anticipated.

C. Emergency vehicle access must be maintained at all times. Failure to comply will result in liquidated damages in the amount of $2,300 per calendar day.

APPLICATION FOR PAYMENT

A written application for payment for the 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. 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.

MAINTENANCE LETTERS OF CREDIT

A Maintenance Letter of Credit in the amount of 5% the final project cost shall be posted by the Contractor with the Village 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.

An additional Maintenance Letter of Credit in the amount of $25,000 shall be posted by the Contractor with the Village upon the expiration of the 5% Maintenance Letter of Credit. The additional Letter of Credit shall be for a period of twelve (12) months after the expiration of the original Maintenance Letter of Credit of such improvements by the Village for the purpose of guaranteeing against and securing the correction of any settlement in the parkway along the curb.

The cost of the Maintenance Letters of Credit shall be included in the cost of the contract.

DCEO FUNDING REQUIREMENTS

Please see the appendices for DCEO BEP Utilization Plans and requirements for this project. All steel shall be sourced from the USA.

GENERAL CONTRACTOR OR SUBCONTRACTOR HOLD HARMLESS AGREEMENT

The Contractor shall indemnify and hold harmless the Municipality, its agents, and its employees from and against all claims for personal injury or property damage, including claims against the Village, 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, 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 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.

PRE-CONSTRUCTION CONFERENCE

A pre-construction conference shall be held with the Village prior to work starting. At this time the Contractor shall submit a Progress Schedule to the Village for review. The Contractor shall also provide a list of the intended source of materials and the intended list of subcontractors to be used with respect to the project.

The Contractor shall provide original proof of insurance, and all required financial guarantees at or prior to this meeting.

CONSTRUCTION SITE USB FLASH DRIVE RECORDING

The Contractor shall prepare pre-construction video documentation of all features in the area affected by construction. All preconstruction recording shall be conducted with digital format equipment. Pre-construction video documentation shall consist of a high-resolution, color, USB Flash Drive showing all areas to be affected by construction.

All pertinent exterior features within the project's zone of influence shall be shown in sufficient detail as to document its pre-construction condition. Features to be documented shall include, but not be limited to, public/private markers, storm sewers, pavements, curbs, driveways, sidewalks, retaining walls, buildings, signs, landscaping, trees, shrubbery, fences and light poles. View orientation shall be maintained by audio commentary on the Flash Drive to explain what is being viewed.

Two (2) copies of the completed flash drive shall be delivered to the Village's representative prior to the preconstruction meeting.

This work shall not be paid for separately but shall be considered incidental to the item of work being performed.

ACCIDENT REPORTING

All accidents occurring on the job which damage public or private property, or result in injuries to workers 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.

WATER MAIN SHUTDOWNS

When the work requires the shut-down of Village water mains, the Contractor shall notify the Engineer no less than 48 hours in advance of the proposed work to schedule the water main shutdown. Public Works staff will notify all affected water users of the scheduled shut-down. Only Public Works staff shall operate water system valves. Water main shutdown will only be permitted between the hours of 8:30 am to 4:30 pm. The existing water main shall be shut down once, for a period not exceeding six (6) hours, during which the Contractor shall complete both the cuts and caps at the southern connection point and the cuts, cap and connection to the existing water main at the northern connection point.

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.

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.

UTILTIES 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
		NONE INDENTIFIED		

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
Sta. 97+00		Fiber Optic		None
Sta. 100+98		Culvert		None
Sta. 101+95		Fiber Optic		None
Sta. 115+95		Culvert		None
Sta. 117+85		Culvert		None

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.

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. The 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 the respective pay item.

- Inlet protection shall be performed in accordance with Section 280 of the Standard Specifications and shall not be measured for payment but shall be considered included in the cost of the contract.

- 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.

- Should pavement repair become necessary, this work shall include all labor, materials and equipment necessary to remove and dispose of any existing pavement as shown in the plans, required by the Contractor's construction methods, or directed by the Engineer, in accordance with the requirements of the Village of Hoffman Estates Development Requirements and Standards Manual, Chapter V called Water Distribution System. The Contractor will be required to saw-cut a vertical joint in the existing pavement to provide a clean joint for this work. Should the remaining existing pavement become damaged at any point during the construction, the Contractor will make a new saw-cut. The proposed pavement shall be constructed as directed by the Village with a minimum N-70 bituminous surface thickness of 2 inches, N-70 bituminous binder thickness or 8" placed in two (2) lifts, and a minimum aggregate base course of 4 inches. Pavement repair shall not be measured for payment but shall be considered included in the cost of the contract.

- Should shoulder pavement repair become necessary, all shoulder rumble strips shall be replaced in kind. Rumble strips shall not be measured for payment but shall be included in the cost of Hot-Mix Shoulders.

- Should aggregate shoulder repair become necessary, this work shall be performed in accordance with Section 481 and Section 1031 of the Standard Specifications. Reclaimed Asphaltic Material (RAP) shall not be allowed. Aggregate shoulder repair shall not be measured for payment but shall be considered included in the cost of the contract

- Should pavement marking repair/replacement become necessary, this work shall be performed in accordance with Section 780 of the Standard Specification. Thermoplastic pavement markings, meeting all requirements of the specification section above, shall be required where the work required the removal of existing pavement markings. All removed markings shall be replaced in kind. Where a portion of the pavement markings have been disturbed the limits of replacement are at the discretion of the appointed Village representative. Pavement marking repair/replacement shall not be measured for payment but shall be considered included in the cost of the contract.

- 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 does not guarantee their accuracy. The contractor shall 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.

- Trench backfill shall be required in all locations where the water main trench, fire hydrant excavation, or directional drill pit is under or within two (2) feet of existing or proposed pavements including, but not limited to, streets, sidewalks, paths and driveways. The material shall conform to the requirements of Article 704.01 of the *Standard Specifications* and conform to gradation CA-6. No recycled concrete shall be allowed for use. The material shall be placed in lifts not exceeding eight (8) inches and shall be mechanically compacted to not less than ninety-five percent (95%) of the standard laboratory density. The Contractor shall provide written verification of density testing prior to final acceptance of the water main. Costs associated with providing, installing, grading and compacting trench backfill will be included in the costs for Water Main or Water Main HDPE directional Drilled.

- 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 is notified that permit coordination is required with the IEPA (for water main installation). Costs associated with bonding requirements or special conditions of these permits are considered included in the cost of the contract.

PROJECT SIGNS

This item shall consist of installing, maintaining and removing project signs supplied by the Village. Signs shall be placed on each street a minimum of three days prior to any construction and remain until notified to remove them by the Engineer. Signs shall be located at each end of a street. This item shall be considered incidental to this contract and shall include all costs for installing, maintaining, and removing the project signs. The signs shall be returned to the Village of Hoffman Estates during nonuse or after completion of the project.

TRAFFIC CONTROL PLAN

Specific traffic detour plan and signage details and have been prepared for this contract. This work shall include all labor, materials, transportation, handling and incidental work necessary to furnish, install, maintain and remove the detour route, all traffic control devices required as indicated in the plans and as approved by the Engineer.

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
- 701501-06
- 701901-09

DETAILS:

- none

SIGNS:

- No bracing shall be allowed on post-mounted signs.
- All regulatory signs shall be maintained at a 5-foot minimum bottom height for rural installations and 7-foot minimum bottom height for urban installations.

SPECIAL PROVISIONS:

- Maintenance of Roadways Traffic Control and Protection
- Public Convenience and Safety (District 1)
- Work Zone Traffic Control Surveillance (LRS 3)
- Flaggers in work Zones (LRS 4)

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 AND PROTECTION.

EXPLORATORY EXCAVATION WITH RESTORATION

At locations designated by the Engineer, the Contractor shall excavate a trench to determine the location, elevation, and pitch of known or suspected underground utility facilities. The Contractor is to use caution in the location of all underground utility facilities. The Contractor shall be responsible for the repair of any damaged facilities so long as those facilities are not at substantially different locations or elevations than are marked or otherwise located by the responsible utility company.

When locating the existing water main, the Contractor shall dig two exploratory trenches, approximately twenty feet apart, to determine the pitch of the existing water main in addition to the location and depth. The profile for the proposed water main shall be adjusted based on actual field conditions of the existing water main determined by these exploratory trenches.

This work shall not be paid for separately but shall be considered incidental to the item of work being performed.

REMOVE AND RE-INSTALL SIGNS

This work shall be performed according to Article 724 of the *Standard Specifications*.

All existing signs and posts within the disturbed area that interfere with the work shall be carefully removed and re-installed to its preconstruction condition or to the satisfaction of the Engineer. All regulatory signs and posts shall be re-installed immediately after the Contractor is clear of the sign location.

The Contractor shall replace at his expense, any sign or post that has been damaged by the Contractor's operations.

This work shall not be paid for separately but shall be included in the cost of the item of work being performed.

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.

All root-pruning cuts must be completed before trench excavation adjacent to the tree being pruned. Root-pruning cuts shall be made parallel to the water main trench 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 inches adjacent to the water main trench. All root-pruning cuts shall be completely backfilled immediately.

This work shall not be paid for and is included in the contract.

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.

Small trees (less than four inches in diameter) and shrubs not indicated for removal, which are removed or severely damaged during construction, shall be replaced in kind and size by the Contractor. 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.

Damages at the rate of sixty-five dollars ($65.00) per inch of trunk diameter shall be charged against the Contractor for unauthorized removal or destruction of any tree four inches in diameter or larger. No penalty will apply for removal of trees where removal is indicated on the plans or authorized by the Engineer.

SUBBASE GRANULAR MATERIAL

Add the following sentence to the end of Article 311.02:

"The aggregate used for subbase material shall meet the CA-6 gradation as specified in Article 1004.04."

Add the following sentence to the end of Article 311.05:

"The removal of trench backfill, granular trench backfill, or earth to accommodate the construction of the proposed pavements, bases, and subbases shall be included in the cost of subbase granular material."

CONNECT TO EXISTING WATER MAIN

This item shall consist of furnishing all materials, tools, labor, equipment, and incidentals necessary to connect new water main to existing water main at the locations shown on the plans, or as determined by the Engineer.

Remove existing water main, in the immediate area of the proposed connection to existing water main, as determined by the Engineer. Installation of Ductile Iron pipe of equivalent diameter will be used to make a connection to the existing water main with stainless steel repair clamp/sleeves around the watermain at each connection point. The Contractor will furnish and install a Hymax Clamp 550 (no tap), or approved equal, with a 12" minimum length. Water main shut down shall be coordinated with the Village.

This work shall include all excavations; coordinated shutdown of the existing water main; removal and installation of replacement pipe with all needed fittings and connections; controlled management of drained water from existing mains to avoid pit water backing up into existing mains; disinfection, filling, and flushing of mains; backfilling; disposal of excavated materials and removed pipes, labor, equipment and materials required for the complete work.

Basis of Payment. This work will be paid for at the contract unit price per each for CONNECT TO EXISTING WATER MAIN, which shall include the work described above.

DISTURBED AREA RESTORATION

This work shall include the restoration of all turf and hardscape areas disturbed by the work. Any condition deemed unsafe by the Village Inspector must be remedied immediately. At the end of each day, all disturbed areas must be, at minimum, leveled off with the backhoe bucket to the satisfaction of the Village Inspector.

Disturbed areas adjacent to forest preserve paths must be restored to final grade, compacted, topsoil must be placed, and must be seeded, fertilized and blanketed no later than fifteen (15) days following the completion of the section of water main.

The turf restoration shall be performed in accordance with Section 200 of the Standard Specifications for Furnish and Placing Topsoil, Seeding, and Erosion Control Blanket (Excelsior) and hardscape restoration shall be performed in accordance with Section 482 of the Standard Specifications for Hot-Mix Shoulders.

Hot-Mix Asphalt Surface Course, Mix "D", N70 (4% air voids at 70 Gyr.) will be used for the Hot-Mix Shoulders material. The surface course shall be placed in lifts not exceeding 4-inches compacted on a 6" thick aggregate subbase of CA-6 meeting the requirements of Subbase Granular Material, Type C, as outlined Article 311.05 of the Standard Specifications. Bituminous Materials (Prime Coat) shall be applied to the aggregate subbase at the rate specified in Article 406.05(b) of the Standard Specifications prior to placing the Hot-Mix Shoulders.

Basis of Payment. This work shall be paid for at the contract unit price per square yard for FURNISH AND PLACING TOPSOIL, of the thickness specified, and EROSION CONTROL BLANKET (EXCELSIOR), at the contract unit price per acre for SEEDING, CLASS 1A, and for SEEDING, CLASS 4, at the contract unit price per pound for NITROGEN FERTILIZER NUTRIENT and POTASSIUM FERTILIZER NUTRIENT.

The shoulder work shall be paid for at the contract unit price per square yard for HOT-MIX SHOULDERS of the hot-mix asphalt thickness specified, which cost includes the providing, grading and compacting the aggregate base for the Hot-Mix Shoulders and the bituminous materials (prime coat) specified herein.

FIRE HYDRANT REMOVAL WITH RESTORATION

This work shall include the removal of all fire hydrants, removal of all valve boxes, and abandonment (in the full closed position) of all auxiliary valves as designated on the plans. These materials are to be delivered to the Village of Hoffman Estates storage yard.

The excavated area is to be filled and compacted with excavated material approved by the Engineer. Surface restoration, using IDOT Class 4 seed mix, shall be completed in conformance with the Disturbed Area Restoration requirements and shall be incidental to fire hydrant removal.

Basis of Payment. This work will be paid for at the contract unit price per each for FIRE HYDRANT REMOVAL WITH RESTORATION. The contract unit price shall include all labor, material, and equipment necessary to perform the work

FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX

This item shall consist of furnishing fire hydrants with auxiliary valves and valve boxes and installing them at the locations shown on the plans and in accordance with the Standard Specifications, the "Standard Specifications for Water and Sewer Main Construction in Illinois", Chapter 5, Section C of the "Development Requirements and Standards Manual" and Section 18-3-14 of the Hoffman Estates Municipal Code, and the Special Provisions below.

Fire Hydrants:

a. Fire hydrants shall be dry barrel type with breakaway type flange and auxiliary gate valves and shall conform to AWWA C-502.
b. Hydrants shall have two (2), two and one-half inch (2½") hose nozzles and one (1), four and one-half (4½") National standard pumper nozzle. Hose threads shall be the standard NSHT.
c. Hydrants shall have a main valve opening of five and one-quarter inches (5¼") with a 6" auxiliary valve with mechanical joints. The auxiliary valve shall have a two-piece valve box and plastic valve box stabilizer, Adapter II or approved equal.
d. Hydrants shall be painted red.
e. Hydrants shall be Mueller A-423. Other hydrants may be allowed upon review and approval of the Engineering Director.
f. Hydrant lead - Pipe material and trench backfill requirements shall match those listed in the special provision for "WATER MAIN".
g. Hydrant flag, "spring type", 4' x 3/8", applicable to a top bonnet bolt, shall be supplied to the Village's Public Works Department.

Valves:

a. All valves shall be iron body, resilient seated, bronze mounted, non-rising stem gate valves conforming to AWWA C-500. Valves shall be Mueller A-2361 with stainless trim. Other valves may be allowed upon review and approval of the Engineering Director.

Each hydrant shall be set on a concrete thrust block not less than 8 inches by 8 inches by 16 inches in thickness. Within the disturbed area, CA-7 gravel shall be placed 3 foot above the weep hole with a geofabric placed on top of the gravel to prevent fines from the soil backfill from clogging the drain field.

All hydrants shall be set plumb and shall have their nozzles parallel with edge of pavement, the steamer connection shall be facing the edge of pavement. All hydrant leads between the tee and the hydrant shall be a positively restrained connection.

The bowl of each hydrant shall be well braced against undisturbed earth at the end of trench with 8

inches by 8 inches by 16 inches in thickness thrust block or concrete backing.

Fire hydrant barrel extensions (Mueller) may be required on one or more fire hydrants. No more than one (1) extension kit is permitted per hydrant. Fire hydrant extension kits shall not be measured for payment but are included in the cost of the fire hydrant.

Auxiliary valves shall be installed in the vertical position, supported on 8 inches by 8 inches by 16 inches in thickness concrete pedestal. It shall be the Contractor's responsibility to assure that the finished elevation of the box is flush with the adjacent proposed ground line. Valve box installation shall meet the requirements of Section 44 of the Standard Specifications for Water and Sewer Main Construction in Illinois.

All excavation around the fire hydrant and auxiliary valve shall be backfilled to the natural line or finished grade as rapidly as possible. The backfill material shall consist of CA-7 or trench backfill as herein specified. All backfill material shall be deposited in the excavation in a manner that will not cause damage to the fire hydrant or auxiliary valve. Any depressions which may develop within the area involved in a construction operation due to settlement of backfill material shall be filled in a manner consistent with standard practice.

Lead pipe from the water main tee to the fire hydrant, and fire hydrant barrel, shall be encased with polyethylene wrap meeting the polyethylene encasement wrap material specified in Water Main special provision. All new pipes shall be swabbed with a chlorine solution prior to installation. All bolts, nuts, washers, and restraint rods shall be 304 stainless steel. Food grade anti-seize shall be used on all threaded connections.

Basis of Payment. This work will be paid for at the contract unit price per each for FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX which payment will include and furnishing all materials, labor, equipment, tools, thrust block, fittings, barrel extension kits, lead piping from water main tee to fire hydrant regardless of length, joint restraints, polyethylene wrapping, all appurtenances, and backfilling necessary to complete the work as specified.

GATE VALVE WITH VAULT

This work shall consist of furnishing and installing a water valve in vault at the locations specified on the plans and in accordance with the "Valve Vault Detail". This work also includes furnishing and installing a valve vault at locations shown on the plans and as directed by the Engineer in accordance with Section 602 of the Standard Specifications, the "Standard Specifications for Water and Sewer Main Construction in Illinois", Chapter 5, Section C of the "Development Requirements and Standards Manual" and Section 18-3-14 of the Hoffman Estates Municipal Code, and the Special Provisions below.

Water Valves:

All valves shall be iron body, resilient seated, bronze mounted, non-rising stem gate valves conforming to AWWA C515 requirements and shall be installed per the requirements of Section 42 of the "Standard Specifications for Water and Sewer Main Construction in Illinois", Chapter 5, Section C of the "Development Requirements and Standards Manual" and Section 18-3-14 of the Hoffman Estates Municipal Code. Valves shall be Mueller A-2361 FLxFL with stainless trim and fusion body epoxy coating interior and exterior or approved equal.

Valve Vault:

Valve vaults shall consist of precast reinforced concrete sections meeting ASTM C-478 and ASTM C-443 standards and shall conform to the Village detail titled "Valve Vault Detail" included in the plans. Adjusting rings shall be precast concrete rings. The total number of adjusting rings shall not exceed two for a maximum height of 12 inches. Flexible boots, meeting ASTM C- 923, are required at all pipe openings. When placed within concrete pavement, the structure shall be boxed out with ¾" expansion material.

Hardware:

All bolts, nuts, washers, and restraint rods shall be 304 stainless steel. Food grade anti-seize shall be used on all threaded connections.

Trench backfill needed for the valve vault shall be included in the cost of this pay item.

Basis of Payment. This work shall be paid for at the contract unit price per each for GATE VALVE of the size specified WITH VAULT, of the diameter specified and shall include all work described above and shown in the "Valve Vault Detail".

PRESSURE CONNECTION WITH TAPPING SLEEVE

This work shall consist of furnishing and installing a tapping sleeve and water valve in vault along an existing water main at the locations specified on the plans and in accordance with the "Pressure Connection Detail". This work shall be done while the existing water main is active and under system pressure. Materials and work shall be in accordance with Section 602 of the Standard Specifications, the "Standard Specifications for Water and Sewer Main Construction in Illinois", Chapter 5, Section C of the "Development Requirements and Standards Manual" and Section 18-3-14 of the Hoffman Estates Municipal Code, and the Special Provisions below.

Water Valves:

All valves shall be iron body, resilient seated, bronze mounted, non-rising stem gate valves conforming to AWWA C515 requirements and shall be installed per the requirements of Section 42 of the "Standard Specifications for Water and Sewer Main Construction in Illinois", Chapter 5, Section C of the "Development Requirements and Standards Manual" and Section 18-3-14 of the Hoffman Estates Municipal Code. Valves shall be Mueller A-2361 FLxFL with stainless trim and fusion body epoxy coating interior and exterior or approved equal.

Valve Vault:

Valve vaults shall consist of precast reinforced concrete sections meeting ASTM C-478 and ASTM C-443 standards and shall conform to the Village detail titled "Valve Vault Detail" included in the plans and size as determined by the Contractor. Adjusting rings shall be precast concrete rings. The total number of adjusting rings shall not exceed two for a maximum height of 12 inches. Flexible boots, meeting ASTM C- 923, are required at all pipe openings. When placed within concrete pavement, the structure shall be boxed out with ¾" expansion material.

Tapping Sleeve:

All pressure taps to an existing Village main shall be made with stainless steel two-piece tapping sleeve with flange joint by Ford FTSS, Smith-Blair #665, Cascade CST-EX, or approved equal.

Construction. The Contractor shall expose the water main to be tapped at the field approved location and shall confirm the size and type of piping present. The Contractor shall obtain the necessary materials required to make a proper pressure connection. The Contractor shall not proceed until he has all the required materials on site.

Each valve shall have maker's name, pressure rating and year in which manufactured cast on the body. Prior to shipment from the factory, each valve shall be tested by hydrostatic pressure equal to twice the specified working pressure.

All bolts, nuts, washers, and restraint rods shall be 304 stainless steel. Food grade anti-seize shall be used on all threaded connections.

Valve Vaults shall be reinforced concrete in accordance with ASTM C478 and C443. Valve vaults shall be 60" in diameter. The casting shall be as specified in the Engineering Plans.

Trench backfill needed for the pressure connection shall be included in the cost of this pay item.

Basis of Payment. This work shall be paid for at the contract unit price each for PRESSURE CONNECTION WITH TAPPING SLEEVE of the valve size specified and shall include all work described above and shown in the "Pressure Connection Detail".

TRAFFIC CONTROL AND PROTECTION

Traffic Control and Protection shall be provided as called for in the plans, details, Special Provisions, Highway Standards, applicable sections of the Standard Specifications, or as directed by the Engineer. The work shall be performed in accordance with applicable portions of Section 701 of the Standard Specifications.

Basis of Payment. This work shall be paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION which price shall include all labor, materials, transportation, handling, and incidentals necessary to furnish, install, maintain, replace, relocate, and remove all traffic control devices indicated in the plans and specifications.

VALVE VAULT ABANDONMENT WITH RESTORATION

This work shall include all material and labor necessary to abandon existing valve vault structures as designated on the plans. Structure frame and cover shall be removed, and these materials are to be delivered to the Village of Hoffman Estates storage yard. The cone section shall be removed and disposed of. Bottom of structure shall be drilled or cracked in a manner to prevent remaining structure from holding water. Valve shall be left in the fully open position, and the structure filled with compacted trench backfill to topsoil subgrade elevation. Surface restoration, using IDOT Class 4 seed mix, shall be completed in conformance with the Disturbed Area Restoration requirements and shall be incidental to Valve Vault Abandonment.

Basis of Payment. This work will be paid for at the contract unit price per each for VALVE VAULT ABANDONMENT WITH RESTORATION. The contract unit price shall include all labor, material, and equipment necessary to perform the work.

WATER MAIN

The Contractor shall furnish and install the proposed water main of the diameter specified at the locations shown on the plans or as directed by the Engineer. The water main shall include excavation, granular bedding, installation of the water main and fittings, testing and chlorination of the water main, backfill and compaction of the trench and all incidental items required for a complete and operational water main.

Construction. Before construction can begin, an approved IEPA permit must be received by the Village of Hoffman Estates.

The water main pipe shall be ductile iron pipe conforming to ANSI A21.51 or AWWA C151 within a minimum thickness of Class 52. All pipes shall have a minimum laying length of 18 feet. Pipe joints shall be push-on joints or mechanical joints conforming to AWWA C-111 (ANSI 21.11). All ductile iron pipes shall be cement-mortar lined in accordance with AWWA C-104 (ANSI A21.4). The exterior of ductile iron pipe shall be coated with a layer of arc-sprayed zinc per ISO 8179. The mass of the zinc applied shall be 200 g/m2 of pipe surface area. A finishing layer topcoat shall be applied to the zinc. The coating system shall conform in every respect to ISO 8179-1 "Ductile iron pipes – External zinc-based coating – Part 1: Metallic zinc with finishing layer (ISO 2004)."

All pipe and fittings shall be made in the USA.

Water mains and appurtenances shall be installed in conformance with AWWA C-600, the material manufacturer's recommendations, the "Standard Specifications for Water and Sewer Main Construction in Illinois", Chapter 5, Section C of the "Development Requirements and Standards Manual" and Section 18-3-14 of the Hoffman Estates Municipal Code, and these requirements. In case of conflicts between the specifications, the more stringent specification shall apply.

Excavation and backfill for water mains shall conform to the "Standard Specifications for Water and Sewer Main Construction in Illinois" and details.

Unless otherwise shown on the plans or indicated in the special provisions, all pipes shall be laid to a minimum depth of six (6) feet and a maximum of eight (8) feet as measured from the proposed ground surface or established grade to the top of the barrel of the pipe.

Sheeting and bracing shall be placed in the ditch, as may be necessary, for the safety of the work and public, for protection of the workers, adjacent properties, or structures and for the proper installation of the work. Sheeting and/or bracing shall be progressively removed as the backfill is placed in such a manner as to prevent the caving in of the sides of the trench or excavation, and to prevent damage to the work.

The trench, unless otherwise specified, shall have a flat bottom conforming to the proposed grade to which the pipe is laid. The pipe shall be laid on four inches of CA-7 washed gravel placed on sound soil cut true and even so that the barrel of the pipe will have a bearing for its full length. Bell holes shall be excavated for joints. Any part of the trench excavated below grade shall be replaced with material

approved by the Engineer and thoroughly compacted. Where a firm foundation is not found to exist for the bottom of the trench at the required depth, due to soft, spongy or other unsuitable soil, such unsuitable soil shall be removed for the full width of the trench and replaced with well compacted unwashed gravel or an equal substitute thereof, or crushed stone if such compacted material proved unsatisfactory. The cost of this work shall not be paid for separately but shall be included in the pay item Water Main.

The pipe shall then be covered with 12" of CA-7 washed gravel. All bedding and granular backfill to 12" over the main shall be included in the cost of Water Main.
Trench backfill shall be required in all locations where the water main trench is under or within two feet (2') of existing or proposed pavements including, but not limited to curb and gutter streets, sidewalks, shoulders, and driveways. The trench backfill shall be CA-7 washed gravel and shall be mechanically compacted to not less than 95% of the standard laboratory density. This work shall be included in the pay item Water Main.

Where water is encountered in the trench, it shall be removed during pipe laying and jointing operations. Trench water shall not be allowed to enter the pipe at any time.

Long radius curves, either horizontal or vertical, may be laid with standard pipe by deflections at the joints. Maximum deflections at the pipe joints and laying radius for various pipe lengths are as found in the following standards:

- Ductile Cast Iron Pipe Mechanical Joints AWWA C600
- Ductile Iron Pipe Push-On Joints AWWA C600
- When rubber gasketed pipe is laid on a curve, the pipe shall be jointed in a straight alignment and then moved into position. Trenches shall be made wider on curves for this purpose.

Separation from sewers shall conform to Sections 41-2.01B through 41-2.01D of the "Standard Specifications for Water and Sewer Main Construction in Illinois".

All valves in vaults shall be attached to the water main with a flange connector to facilitate removal of the valve. A Romac Industries, Inc., Style RFCA restrained flange coupling adapter FJxMJ, or approved equal, shall be used to connect the valve to the water main. The restrained flange coupling adapter shall meet AWWA Standard C219 specifications, FM approved and have a minimum working pressure of 275 PSI. The minimum pipe insertion distance shall be 2.0 inches with a maximum pipe insertion distance of 7.0 inches.

Polyethylene Wrap Encasement:

A polyethylene wrapping will be required. Polyethylene encasement shall be wrapped and taped around all ductile iron pipe and fittings, retainer rings, valves in valve boxes, fire hydrants and auxiliary valves and boxes. The polyethylene material shall be Class C (blue in color) in conformance with the requirements of ANSI A21.5 and AWWA C-105-93, Sections 4.1, 4.2, and 4.3. The minimum nominal thickness shall be 8 mils (0.008 inches). The inside surface of the polyethylene wrap in contact with the pipe exterior shall be infused with a blend of anti-microbial biocide to mitigate microbial influenced corrosion and a volatile corrosion inhibitor to control galvanic corrosion. Encasement shall extend 24" past ductile iron products at transitions to plastic products. All materials shall be manufactured in the USA.

Tracer Wire:

Location wire shall be Copperhead copper-clad steel 10-AWG Extra High Strength, minimum 45 mil HDPE insulation, Manufactured by Copperhead Industries. Direct bury wire connectors shall include three-way lockable Copperhead SnakeBite Locking Connectors and Copperhead Mainline-to-Service Connectors. Non-locking, friction fit, or taped connectors are prohibited.

Location wire access points shall be installed as indicated on the Plans, Specifications, or directed by the Engineer.

1. Connection to Existing Water main: Mamba style sixty (60) inch round marker posts, with security sleeve cap style, built-in access point, and magnesium ground rod (12-AWG wire) shall be installed at connection to existing water main locations.
2. Mainline Water main: Cobra T-3 potable water access points, with hydrant flange package including 24-inch long, 1" dia, SCH 40 PVC conduit, shall be installed at all fire hydrant locations.

Tracer wire shall be installed with all water main. The tracer system components, including tracer wire, connectors, ground rods and access points, must be compatible. Tracer wire and all access point products shall be blue. The system shall be installed in conformance with the manufacturer's recommendations.

All tracer wire and tracer wire components shall be manufactured in the USA.

All new tracer wire installations shall be located using typical low frequency line tracing equipment, witnessed by the Contractor, Engineer, and Village, prior to acceptance of ownership. Continuity testing, in lieu of actual line tracing, shall not be accepted.

Location tracer wire and system components shall not be measured for pay and shall be included in the cost of the water main.

Fittings:

Water main work includes furnishing and installing all tees, wyes, crosses, bends, plugs and reducers necessary to complete the water main installation as shown on the plans. It shall be done in accordance with the applicable portions of Section 40 and 41 of the "Standard Specifications for Water and Sewer Main Construction in Illinois", Chapter 5, Section C of the "Development Requirements and Standards Manual" and Section 18-3-14 of the Hoffman Estates Municipal Code, the Village's Standard Details, and the following.

Fittings shall be ductile iron meeting requirements of AWWA specification C-153 (ANSI 21.53). Fittings shall be cement-lined in accordance with AWWA C-104 (ANSI A21.4). All mechanical joint type fitting shall include nuts, washers, bolts, and restraint rods made of 304 stainless steel.

Material Testing:

Pressure Test. The contractor shall pressure test the water main pipeline at all valved sections. The Engineer shall be notified of the time of the test a minimum of twenty-four (24) hours prior to the test. Pressure testing the pipeline using compressed air will not be allowed. The test shall be made by closing valves or by tied end caps and/or plugs and filling the pipe slowly with water.

The test shall consist of holding a minimum hydrostatic pressure on the pipe of 150 pounds per square inch for a period of two hours based at the lowest elevation of the test section. A two-pound test gauge with a minimum capacity of 160 pounds will be required. It is recommended that the initial pressure be 3 to 5 psi above the minimum required pressure due to possible air in the line. The test shall begin and end at the same pressure. The water necessary to bring to initial pressure shall be measured by a means satisfactory to the Engineer. The leakage shall be considered the amount of water entering the pipeline during the test period. The total allowable leakage shall meet the requirements of AWWA C600-82.

Any defective pipe, fittings, valves, or hydrants shall be replaced with new sections. All fire hydrant auxiliary valves shall be open throughout the test in the test section. At the conclusion of the test, a fire hydrant shall be opened to verify that both the pressure drops on the pressure gauge, and that the fire hydrant auxiliary valves are open. The contractor shall provide all of the equipment necessary for the testing.

All testing shall be done prior to the installation of service lines. Suitable means shall be provided for determining the quantity of water lost by leakage under the specified test pressure.

ALLOWABLE LEAKAGE PER 1000 FT OF PIPELINE TABLE* - gph

Avg. Test Pressure	Nominal Pipe Diameter – in.												
psi	6	8	10	12	14	16	18	20	24	30	36	42	48
250	0.71	0.95	1.19	1.42	1.66	1.90	2.14	2.37	2.85	3.56	4.27	4.99	5.70
225	0.68	0.90	1.13	1.35	1.58	1.80	2.03	2.25	2.70	3.38	4.05	4.73	5.41
200	0.64	0.85	1.06	1.28	1.48	1.70	1.91	2.12	2.55	3.19	3.82	4.46	5.09
175	0.59	0.80	0.99	1.19	1.39	1.59	1.79	1.98	2.38	2.98	3.58	4.17	4.77
150	0.55	0.74	0.92	1.10	1.29	1.47	1.66	1.84	2.21	2.76	3.31	3.86	4.41
125	0.50	0.67	0.84	1.01	1.18	1.34	1.51	1.68	2.01	2.52	3.02	3.53	4.03
100	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.80	2.25	2.70	3.15	3.60

* For pipe with 18-ft nominal lengths. To obtain the recommended allowable leakage for pipe with 20-ft nominal lengths, multiply the leakage calculated from the table by 0.9. If the pipeline under test contains sections of various lengths, the allowable leakage will be the sum of the computed leakage for each size.

Allowable leakage shall not be greater than that computed as follows:

Footage X Allowable Leakage X 2 hours = Gallon X128 oz/gal = Total Allowable Leakage in oz 1000 ft

Leakage is defined as the quantity of water required to be supplied to the newly laid pipe necessary to maintain the 150-pound test pressure.

All pressure tests shall be done in the presence of the Engineer.

When deemed impractical by the Engineer to test the new water main installations between existing valves, a static pressure test using system pressure shall be applied from existing valve to existing valve for 24 hours. Excavations will be kept open and barricaded to observe any leakage.

Preliminary Flushing:

Prior to chlorination, the water main shall be flushed as thoroughly as possible with the water pressure and outlets available. Flushing shall be done after the pressure test is made. It must be understood that such flushing removes only the lighter solids and cannot be relied upon to remove heavy material allowed to get into the main during pipe installation. If no hydrant is installed at the end of the main, a tap should be provided large enough to affect a velocity in the main of at least 2.5 feet per second.

Disinfection:

The point of application of the chlorinating agent shall be at the beginning of the pipeline extension or any valved section of it and through a corporation stop in the top of the newly laid pipe. The injector for delivering the chlorine-gas into the pipe should be supplied from a tap on the pressure side of the gate valve controlling the flow into the pipeline extension.

Water from the existing distribution system or other source of supply shall be controlled so as to flow slowly into the newly laid pipeline during the application of chlorine gas. The rate of chlorine mixture flow shall be in such proportion to the rate of water entering the pipe that the chlorine applied to the water entering the newly laid pipe shall be at least 50 ppm, or enough to meet the requirements during the retention period. This may require as much as 100 ppm of chlorine in the water left in the line after chlorination.

Valves shall be manipulated so that the strong chlorine solution in the line being treated will not flow back into the existing line supplying water.

Treated water shall be retained in the pipe long enough to destroy all spore-forming bacteria. This retention period shall be at least twenty-four (24) hours. After the chlorine-treated water has been retained for the required time, and after proper flushing, the chlorine residual at the pipe extremities and at other representative points should be at least 1.0 ppm.

In the process of chlorinating newly laid pipe, all valves or other appurtenances shall be operated while the pipeline is filled with a chlorinating agent. De-chlorination may be required before discharging highly chlorinated water into the storm sewer.

All water mains shall be disinfected and tested according to the requirements of the "Standards for Disinfecting Water Mains," AWWA C651-86, and shall be performed by an independent firm exhibiting experience in the methods and techniques of this operation and shall be done in the presence of the Engineer. The Engineer shall be notified of the time of disinfection a minimum of twenty-four (24) hours prior to the disinfection.

Final Flushing and Testing:

Chlorinated water will be flushed from all terminations prior to sampling. Bacteriological samples shall be taken at each connection to the existing water main. In accordance with Section 7.1 of the AWWA Standard "at least one sample shall be collected from the new main and one from each branch. In case of extremely long mains, it is desirable that samples be collected along the length of the line as well as at its end." The maximum distance allowed between samples in any situation shall be 1000 feet. All branch connections 3" in diameter or larger, greater than or equal to 20 feet in length including building services, are to be considered branches for application of this rule. Samples should never be taken from an unsterilized hose or from a fire hydrant, because such samples seldom meet current bacteriological standards.
Samples shall be taken by the firm performing the disinfection of the main and in the presence of the Engineer. Samples shall be transported iced from the construction site to the IEPA approved laboratory. The laboratory shall be instructed to notify the Engineer of all unsatisfactory results. Two successive satisfactory samples are required. Successive samples shall be taken at least 24 hours apart.

Method of Measurement. Water main (of the diameters specified) will be measured per foot in place. Water mains shall be measured along the center line of the water main from the center of the transition fitting to the center of the transition fitting or end of pipe.

Basis of Payment. Payment for water main shall be made at the contract unit price per foot for WATER MAIN, of the nominal diameter and material specified. Payment shall be full compensation for excavation, removal of existing water main in conflict with the proposed water main, fittings, polyethylene wrapping, tracer wire system, installation of water main, bedding, initial backfill, trench backfill, granular trench backfill, thrust blocking, flushing, pressure testing, chlorination, and all labor, materials, equipment and incidentals as shown on the plans and as specified herein to construct a complete and operational water main except as noted below. Fittings shall not be paid for separately but shall be included in the cost of WATER MAIN.

WATER MAIN, HDPE DIRECTIONAL DRILLED

This work shall consist of furnishing all labor, materials, and equipment necessary to install continuously fused HDPE water main of the size specified at the locations shown on the Drawings.

Experience Requirements. Horizontal Directional Drilling Contractor shall have actively engaged in the installation of pipe using HDD for a minimum of five (5) years, during which time the Contractor will have completed at least six (6) projects of the same pipe material proposed, 1,000’ continuous pull length (or longer), and 18” diameter (or larger) installed, using the same size of HDD equipment proposed. Field supervisory personnel employed by the HDD Contractor will have at least five (5) years’ experience in the performance of the work and tasks necessary to install water main of the size specified at the locations shown on the Drawings. Contractor shall submit the names and resumes of all supervisory field personnel upon the Village’s request.

Contractor shall complete and submit Certification of Bidder’s Experience, found in Appendix K, with the BLR Forms.

Equipment Requirements. Minimum Rotational Torque, 15,000 ft/lbs. Minimum pullback force, 120,000 lbs.

Construction. Provide water main pipe that is fusible high density polyethylene (HDPE), and connect with approved fittings to the proposed DIP water main, as shown on the Drawings; as specified in this section of the Special Provisions herein; in accordance with Chapter 5, Section C of the *Development Requirements and Standards Manual and Section 18-3-14 of the Hoffman Estates Municipal Code*, in accordance with Section 561 of the "Standard Specifications"; in accordance with the latest edition of the "Standard Specifications for Water and Sewer Main Construction in Illinois"; and as needed for a complete installation.

Provide labor, materials, tools, equipment, and chemicals necessary to perform all work and testing specified in this Section.

Provide all pipe, equipment, and materials for this type of installation. Use an adequate number of workmen who are thoroughly trained and experienced in the necessary crafts, and who are completely familiar with the specified requirements and methods needed for proper performance of the work of this Section.

Submittals:

Provide detailed plan of means and methods to maintain clean and safe conditions, including list of material and equipment that will be on-site during pipe insertion.

Product Data: For the following:

1. HDPE Pipe and Jointing
2. Transition Fittings
3. Thrust Collars
4. Tracer Wire System
5. Service Saddles (testing and chlorination taps)

Pipe:

HDPE Pipe: Provide PE4710 material (compound) high density polyethylene extruded pipe material complying with AWWA C906. PE4710 material shall meet the requirements of ASTM D3350 and shall meet or exceed a cell classification of 445574C per ASTM D3350. The wall thickness shall be determined by the pipe manufacturer and the HDD installation Contractor but shall have a minimum DR 11 for ductile iron (DIOD) pipe sizes.

HDPE Fittings:

PE4710 fittings shall comply with ASTM D3261 for molded butt fusion, flange adapters and MJ adapters, or shall comply with AWWA C906 for fabricated butt fusion fittings.

PE4710 compounds shall be tested and certified as suitable for use with potable water in accordance with requirements that are no less restrictive than the applicable requirements in NSF/ANSI 61.

Provide blue or blue striped, black colored pipe for water main applications, with ends square to the pipe and free of any bevel or chamfer. The joints of the plain end pipe shall be thermal butt-fused in the field using supplier's/manufacturer's written instructions. The joint strength shall be equal to or greater than the pipe strength. Provide equipment and procedures in strict accordance with manufacturer's recommendations, and record fusing information including surface temperature at heating plate, pressure of pipe to heating plate, soak time, fusion pressure, fusion cooling time, allowable bead height and width. Use only personnel certified by pipe manufacturer as fusing technicians.

Allow pipe cooling and relaxation time per pipe manufacturer's recommendations, with a minimum of 4 hours, prior to making connections to existing and/or proposed pipe and fittings.

Provide HDPE butt-fused thrust collars around circumference of HDPE pipe and provide concrete thrust block/anchors around thrust collars at all HDPE pipe termination points. Provide restrained joint mechanical gland adapters for connection to pipe at ends of HDPE piping.

HDPE Tapping Saddles:

Tapping HDPE is not indicated on the plans and shall require Contractor material submittal, Engineer review, and Village approval.

HDPE Transition Fittings:

Provide butt fused MJ adapter with kit and stainless steel stiffener (as required by manufacturer) to connect HDPE to DIP, Independent Pipe Products, Inc. or Engineer approved equal. Mega Lug type connections will not be permitted. All bolts, nuts, washers, and restraint rods shall be stainless steel. Food grade anti-seize shall be used on all threaded connections.

Installation and Receiving Pits:

Comply with OSHA requirements and install sheeting and fencing as required to protect the public. If pits are required, provide pits as required to install and receive pipes. Provide tight sheeting where required to provide protection to the public, permitting agency and public property, and adjacent utilities. Comply with OSHA requirements for type, installation, and removal of sheeting. Provide fencing around pits to secure the area and to provide protection to the public. Provide pits of length and width as necessary to install pipes and sized to fit area available for work.

Provide dewatering as required to allow excavation of pits and installation of pipes. Provide protection to environment from erosion or sedimentation resulting from all pumping operations. Backfill excavation with compacted granular backfill materials where required. Remove all construction debris, materials, excess excavated material, and sheeting from construction area upon completion of the work.

Tracer Wire:

Location wire shall be Copperhead copper-clad steel 10-AWG Extra High Strength, minimum 45 mil HDPE insulation, Manufactured by Copperhead Industries. Direct bury wire connectors shall include three-way lockable Copperhead SnakeBite Locking Connectors and Copperhead Mainline-to-Service Connectors. Non-locking, friction fit, or taped connectors are prohibited.

Location wire access points shall be installed as indicated on the Plans, Specifications, or directed by the Engineer.

3. Connection to Existing Water main: Mamba style sixty (60) inch round marker posts, with security sleeve cap style, built-in access point, and magnesium ground rod (12-AWG wire) shall be installed at connection to existing water main locations.
4. Mainline Water main: Cobra T-3 potable water access points, with hydrant flange package including 24-inch long, 1" dia, SCH 40 PVC conduit, shall be installed at all fire hydrant locations.

Tracer wire shall be installed with all water main. The tracer system components, including tracer wire, connectors, ground rods and access points, must be compatible. Tracer wire and all access point products shall be blue. The system shall be installed in conformance with the manufacturer's recommendations.

All tracer wire and tracer wire components shall be manufactured in the USA.

All new tracer wire installations shall be located using typical low frequency line tracing equipment, witnessed by the Contractor, Engineer, and Village, prior to acceptance of ownership. Continuity testing, in lieu of actual line tracing, shall not be accepted.

Location tracer wire and system components shall not be measured for pay and shall be included in the cost of the water main.

Surface Conditions:

Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the work. Do not proceed until unsatisfactory conditions are corrected. Protect existing utilities indicated or made known. Protect trees and shrubs by plank wrappers securely wired in place or by providing a fence around the tree or shrub of sufficient distance away and of sufficient height so trees and shrubs will not be damaged in any way as part of this work. Do not permit any equipment to operate within ten (10) feet of any trees or shrubs that are to remain or in a manner as to harm overhanging branches.

Protection of Persons and Property:

Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by operations under this Section.
Provide protection to environment, public and private property, and public or private utilities from drilling mud that is utilized as lubricant or hole support during drilling and pipe insertion. Provide vacuum trucks and apparatus of sufficient size and quantity to reclaim all drilling mud discharged during operations. Provide trucks, end loaders, and any other equipment and manpower necessary to maintain a clean and safe work site during operation.

Pipe Installation:

Install pipe by pulling the pipe into place. Provide winch systems designed to protect structures, provide directional stability, and pull pipe from insertion point to exit point without causing damage to the pipe. Insert plastic pipe in a continuous operation from point to point.

Provide a continuous un-spliced locator wire at each boring location for the total length of the HDD pipe.

Mark location of HDD installed pipe termination points on "Job Set" of plans, measured from adjacent permanent structures. Mark depth of HDD installed pipe, at minimum fifty (50) foot intervals, on “Job Set” of plans. Provide the Village with 24-hour notice prior to backfilling HDD transition points to allow for GPS location data collection by Village staff.

Testing:

After the pipe has been laid as specified herein, all newly laid pipes shall be subjected to pressure and leakage tests as specified elsewhere in these documents.

Method of Measurement. Water main (of the diameters specified) will be measured per foot in place. Water mains shall be measured along the center line of the water main from the center of the transition fitting to the center of the transition fittings or end of the pipe.

Basis of Payment. This work will be paid for at the unit contract price per foot for WATER MAIN, of the nominal diameter specified, HDPE DIRECTIONAL DRILLED, which all labor, equipment, excavation, tracer wire system, service saddles and valves, backfill and removal of excess spoils, trench backfill, granular trench backfill, joint materials and restraints, pipe and fittings, transition fittings, flushing, pressure testing, chlorination, and restoration of disturbed areas outside the restoration limits shown on the plans used for equipment shall be included in this pay item.

WATER MAIN TO BE ABANDONED

This work consists of abandoning existing water main in-place by cutting the existing water main and capping/plugging the cut end. The existing water main slated for abandonment shall not be filled and shall remain intact for possible future use as a casing pipe for other utilities.

Water main caps/plugs used on the live side of the abandonment shall be zinc coated. All bolts, nuts, washers, and restraint rods shall be 304 stainless steel. Food grade anti-seize shall be used on all threaded connections. Provide the Village with 24-hour notice prior to backfilling the cut & cap points to allow the Village Staff to GPS locate the capped ends of the existing water main slated to remain for inclusion in the Village’s GIS system. Mark ends of water main abandonment and elevation of top of pipe in the “job set” of plans for the Village’s future reference.

Basis of Payment. This work will be paid for at the unit contract price per each for WATER MAIN TO BE ABANDONED (by method specified) and shall include all work described above and shown in the Water Main Abandonment Detail “A” and Water Main Abandonment Detail “B”.

APPENDICES

APPENDIX A

CHECK SHEET FOR RECURRING SPECIAL PROVISIONS

Illinois Department of Transportation

Check Sheet for Recurring Special Provisions

Local Public Agency	County	Section Number
Village of Hoffman Estates	Cook	22711

☐ **Check this box for lettings prior to 01/01/2024.**

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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Local Public Agency	County	Section Number
Village of Hoffman Estates	Cook	22711

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

SPECIAL PROVISION FOR WORK ZONE TRAFFIC CONTROL SURVEILLANCE

Effective: January 1, 1999
Revised: January 1, 2018

Revise Article 701.10 of the Standard Specifications to read:

"The Contractor shall conduct inspections of the worksite at a frequency that will allow for the timely replacement of any traffic control device that has become displaced, worn, or damaged. A sufficient quantity of replacement devices, based on vulnerability to damage, shall be readily available to meet this requirement."

Delete Article 701.20(g) of the Standard Specifications.

CHECK SHEET #LRS4

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

SPECIAL PROVISION
FOR
FLAGGERS IN WORK ZONES

Effective: January 1, 1999
Revised: January 1, 2007

Revise the last paragraph of Article 701.13 of the Standard Specifications to read:

"Flaggers are required only when workers are present."

CHECK SHEET #LRS6

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

SPECIAL PROVISION
FOR
BIDDING REQUIREMENTS AND CONDITIONS FOR CONTRACT PROPOSALS

Effective: January 1, 2002
Revised: January 1, 2015

Replace Article 102.01 of the Standard Specifications with the following:

"Prequalification of Bidders. When prequalification is required and the Awarding Authority for contract construction work is the County Board of a County, the Council, the City Council, or the President and Board of Trustees of a city, village, or town, each prospective bidder, in evidence of competence, shall furnish the Awarding Authority as a prerequisite to the release of proposal forms by the Awarding Authority, a certified or photostatic copy of a "Certificate of Eligibility" issued by the Department of Transportation, according to the Department's "Prequalification Manual".

The two low bidders must file, within 24 hours after the letting, a sworn affidavit in triplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work, using the blank form made available for this affidavit. One copy shall be filed with the Awarding Authority and two copies with IDOT's District office.

Issuance of Proposal Forms. The Awarding Authority reserves the right to refuse to issue a proposal form for bidding purposes for any of the following reasons:

(a) Lack of competency and adequate machinery, plant, and other equipment, as revealed by the financial statement and experience questionnaires required in the prequalification procedures.

(b) Uncompleted work which, in the judgment of the Awarding Authority, might hinder or prevent the prompt completion of additional work awarded.

(c) False information provided on a bidder's "Affidavit of Availability".

(d) Failure to pay, or satisfactorily settle, all bills due for labor and material on former contracts in force at the time of issuance of proposal forms.

(e) Failure to comply with any prequalification regulations of the Department.

(f) Default under previous contracts.

(g) Unsatisfactory performance record as shown by past work for the Awarding Authority, judged from the standpoint of workmanship and progress.

(h) When the Contractor is suspended from eligibility to bid at a public letting where the contract is awarded by, or requires approval of, the Department.

(i) When any agent, servant, or employee of the prospective bidder currently serves as a member, employee, or agent of a governmental body that is financially involved in the proposal work.

(j) When any agent, servant, or employee of the perspective bidder has participated in the preparation of plans or specifications for the proposed work.

Interpretation of Quantities in the Bid Schedule. 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.

Examination of Plans, Specifications, Special Provisions, and Site of Work. The bidder shall, before submitting a bid, carefully examine the provisions of the contract. The bidder shall inspect in detail the site of the proposed work, investigate and become familiar with all the local conditions affecting the contract and fully acquaint themselves with the detailed requirements of construction. Submission of a bid shall be a conclusive assurance and warranty the bidder has made these examinations and the bidder understands all requirements for the performance of the work. If his/her bid is accepted, the bidder shall be responsible for all errors in the proposal resulting from his/her failure or neglect to comply with these instructions. The Awarding Authority will, in no case, be responsible for any costs, expenses, losses, or change in anticipated profits resulting from such failure or neglect of the bidder to make these examinations.

The bidder shall take no advantage of any error or omission in the proposal and advertised contract. Any prospective bidder who desires an explanation or interpretation of the plans, specification, or any of the contract documents, shall request such in writing from the Awarding Authority, in sufficient time to allow a written reply by the Awarding Authority that can reach all prospective bidders before the submission of their bids. Any reply given a prospective bidder concerning any of the contract documents, plans, and specifications will be furnished to all prospective bidders in the form determined by the Awarding Authority including, but not limited to, an addendum, if the information is deemed by the Awarding Authority to be necessary in submitting bids or if the Awarding Authority concludes the information would aid competition. Oral explanations, interpretations, or instructions given before the submission of bids unless at a prebid conference will not be binding on the Awarding Authority.

Preparation of the Proposal. Bidders shall submit their proposals on the form furnished by the Awarding Authority. The proposal shall be executed properly, and bids shall be made for all items indicated in the proposal form, except when alternate bids are asked, a bid on more than one alternate for each item is not required, unless otherwise provided. The bidder shall indicate in figures, a unit price for each of the separate items called for in the proposal form; the bidder shall show the products of the respective quantities and unit prices in the column provided for that purpose, and the gross sum shown in the place indicated in the proposal form shall be the

summation of said products. All writing shall be with ink or typewriter, except the signature of the bidder which shall be written in ink.

If the proposal is made by an individual, that individual's name and business address shall be shown. If made by a firm or partnership, the name and business address of each member of the firm or partnership shall be shown. If made by a corporation, the proposal shall show the names, titles, and business addresses of the president, corporate secretary and treasurer. The proposal shall be signed by president or someone with authority to execute contracts and attested by the corporate secretary or someone with authority to execute or attest to the execution of contracts.

When prequalification is required, the proposal form shall be submitted by an authorized bidder in the same name and style as shown on the "Contractor's Statement of Experience and Financial Condition" used for prequalification.

Rejection of Proposals. The Awarding Authority reserves the right to reject any proposal for any of the conditions in "Issuance of Proposal Forms" or for any of the following reasons:

(a) More than one proposal for the same work from an individual, firm, partnership, or corporation under the same name or different names.

(b) Evidence of collusion among bidders.

(c) Unbalanced proposals in which the bid prices for some items are, in the judgment of the Awarding Authority, out of proportion to the bid prices for other items.

(d) If the proposal does not contain a unit price for each pay item listed, except in the case of authorized alternate pay items or lump sum pay items.

(e) If the proposal form is other than that furnished by the Awarding Authority; or if the form is altered or any part thereof is detached.

(f) If there are omissions, erasures, alterations, unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.

(g) If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.

(h) If the proposal is not accompanied by the proper proposal guaranty.

(i) If the proposal is prepared with other than ink or typewriter, or otherwise fails to meet the requirements of the above "Preparation of Proposal" section.

Proposal Guaranty. Each proposal shall be accompanied by a bid bond on the Department form contained in the proposal, executed by a corporate surety company satisfactory to the Awarding Authority, by a bank cashier's check or a properly certified check for not less than five percent of the amount bid, or for the amount specified in the following schedule:

Amount Bid		Proposal Guaranty
Up to	$5,000	$150
>$5,000	$10,000	$300
>$10,000	$50,000	$1,000
>$50,000	$100,000	$3,000
>$100,000	$150,000	$5,000
>$150,000	$250,000	$7,500
>$250,000	$500,000	$12,500
>$500,000	$1,000,000	$25,000
>$1,000,000	$1,500,000	$50,000
>$1,500,000	$2,000,000	$75,000
>$2,000,000	$3,000,000	$100,000
>$3,000,000	$5,000,000	$150,000
>$5,000,000	$7,500,000	$250,000
>$7,500,000	$10,000,000	$400,000
>$10,000,000	$15,000,000	$500,000
>$15,000,000	$20,000,000	$600,000
>$20,000,000	$25,000,000	$700,000
>$25,000,000	$30,000,000	$800,000
>$30,000,000	$35,000,000	$900,000
Over	$35,000,000	$1,000,000

In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must equal to the sum of the proposal guaranties which would be required for each individual proposal.

Bank cashier's checks or properly certified checks accompanying proposals shall be made payable to the County Treasurer, when a County is the Awarding Authority; or the City, Village, or Town Treasurer, when a city, village, or town is the Awarding Authority.

The proposal guaranty checks of all, except the two lowest responsible, will be returned promptly after the proposals have been checked, tabulated, and the relation of the proposals established. Proposal guaranty checks of the two lowest bidders will be returned as soon as the contract and contract bond of the successful bidder have been properly executed and approved. Bid bonds will not be returned.

After a period of three working days has elapsed after the date of opening proposals, the Awarding Authority may permit the two lowest bidders to substitute for the bank cashier's checks or certified checks submitted with their proposals as proposal guaranties, bid bonds on the Department forms executed by corporate surety companies satisfactory to the Awarding Authority.

Delivery of Proposals. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Authority 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.

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

Public Opening of Proposals. Proposals will be opened and read publicly at the time and place specified in the Notice to Bidders. Bidders, their authorized agents, and other interested parties are invited to be present.

Consideration of Proposals. After the proposals are opened and read, they will be compared on the basis of the summation of the products of the quantities shown in the bid schedule by the unit bid prices. In awarding contracts, the Awarding Authority will, in addition to considering the amounts stated in the proposals, take into consideration the responsibility of the various bidders as determined from a study of the data required under "Prequalification of Bidders", and from other investigations which it may elect to make.

The right is reserved to reject any or all proposals, to waive technicalities, or to advertise for new proposals, if in the judgment of the Awarding Authority, the best interests of the Awarding Authority will be promoted thereby.

Award of Contract. The award of contract will be made within 45 calendar days after the opening of proposals to the lowest responsible and qualified bidder whose proposal complies with all the requirements prescribed. The successful bidder will be notified by letter of intent that his/her bid has been accepted, and subject to the following conditions, the bidder will be the Contractor.

An approved contract executed by the Awarding Authority is required before the Awarding Authority is bound. An award may be cancelled any time by the Awarding Authority prior to execution in order to protect the public interest and integrity of the bidding process or for any other reason if, in the judgment of the Awarding Authority, the best interests of the Awarding Authority will be promoted thereby.

If a contract is not awarded within 45 days after the opening of proposals, bidders may file a written request with the Awarding Authority for the withdrawal of their bid, and the Awarding Authority will permit such withdrawal.

Requirement of Contract Bond. If the Awarding Authority requires a Contract Bond, the Contractor or Supplier shall furnish the Awarding Authority a performance and payment bond with good and sufficient sureties in the full amount of the contract as the penal sum. The surety shall be acceptable to the Awarding Authority, shall waive notice of any changes and extensions of time, and shall submit its bond on the form furnished by the Awarding Authority.

Execution of Contract. The contract shall be executed by the successful bidder and returned, together with the Contract Bond, within 15 days after the contract has been mailed to the bidder.

If the bidder to whom the award is made is a corporation organized under the laws of a State other than Illinois, the bidder shall furnish the Awarding Authority a

copy of the corporation's Certificate of Authority to do business in the State of Illinois with the return of the executed contract and bond. Failure to furnish such evidence of a Certificate of Authority within the time required will be considered as just cause for the annulment of the award and the forfeiture of the proposal guaranty to the Awarding Authority, not as a penalty, but in payment of liquidated damages sustained as a result of such failure.

Failure to Execute Contract. If the contract is not executed by the Awarding Authority within 15 days following receipt from the bidder of the properly executed contracts and bonds, the bidder shall have the right to withdraw his/her bid without penalty.

Failure of the successful bidder to execute the contract and file acceptable bonds within 15 days after the contract has been mailed to the bidder shall be just cause for the cancellation of the award and the forfeiture of the proposal guaranty which shall become the property of the Awarding Authority, not as penalty, but in liquidation of damages sustained. Award may then be made to the next lowest responsible bidder, or the work may be readvertised and constructed under contract, or otherwise, as the Awarding Authority may decide."

CHECK SHEET #LRS11

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

SPECIAL PROVISION
FOR
EMPLOYMENT PRACTICES

Effective: January 1, 1999

In addition to all other labor requirements set forth in this proposal and in the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation, during the performance of this contract, the Contractor for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor") agrees as follows:

Selection of Labor. The Contractor shall comply with all Illinois statutes pertaining to the selection of labor.

Equal Employment Opportunity. During the performance of this contract, the Contractor agrees as follows:

(a) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, ancestry, age, marital status, physical or mental handicap or unfavorable discharge from military service, and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.

(b) That, if it hires additional employees in order to perform this contract or any portion hereof, it will determine the availability of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.

(c) That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, national origin, ancestry, age, marital status, physical or mental handicap or unfavorable discharge from military service.

That it will send to each labor organization or representative of workers with which it has or is bound by collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any such labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with so such Act and Rules and Regulations, the Contractor will promptly so notify the Illinois Department of Human Rights and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.

(e) That it will submit reports as required by the Department of Human Rights Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations.

(f) That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency Illinois Department of Human Rights for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.

(g) That it will include verbatim or by reference the provisions of this clause in every subcontract so that such provisions will be binding upon every such subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by all its subcontractors; and further it will promptly notify the contracting agency and the Illinois Department of Human Rights in the event any subcontractor fails or refuses to comply therewith. In addition, the Contractor will not utilize any subcontractor declared by the subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

CHECK SHEET #LRS12

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

SPECIAL PROVISION
FOR
WAGES OF EMPLOYEES ON PUBLIC WORKS

Effective: January 1, 1999
Revised: January 1, 2015

1. Prevailing Wages. All wages paid by the Contractor and each subcontractor shall be in compliance with The Prevailing Wage Act (820 ILCS 130), as amended, except where a prevailing wage violates a federal law, order, or ruling, the rate conforming to the federal law, order, or ruling shall govern. The Illinois Department of Labor publishes the prevailing wage rates on its website. If the Illinois Department of Labor revises the prevailing wage rates, the revised prevailing wage rates on the Illinois Department of Labor's website shall apply to this contract and the Contractor will not be allowed additional compensation on account of said revisions. The Contractor shall review the wage rates applicable to the work of the contract at regular intervals in order to ensure the timely payment of current wage rates. The Contractor agrees that no additional notice is required. The Contractor shall be responsible to notify each subcontractor of the wage rates set forth in this contract and any revisions thereto.

2. Payroll Records. The Contractor and each subcontractor shall make and keep, for a period of not less than five years from the date of the last payment on a contract or subcontract, records of all laborers, mechanics, and other workers employed by them on the project; the records shall include information required by 820 ILCS 130/5 for each worker. Upon seven business days' notice, the Contractor and each subcontractor shall make available for inspection and copying at a location within this State during reasonable hours, the payroll records to the public body in charge of the project, its officers and agents, the Director of Labor and his deputies and agents, and to federal, State, or local law enforcement agencies and prosecutors.

3. Submission of Payroll Records. The Contractor and each subcontractor shall, no later than the 15th day of each calendar month, file a certified payroll for the immediately preceding month with the public body in charge of the project, except that the full social security number and home address shall not be included on weekly transmittals. Instead the payrolls shall include an identification number for each employee (e.g., the last four digits of the employee's social security number). The certified payroll shall consist of a complete copy of the payroll records, except starting and ending times of work each day may be omitted.

   The certified payroll shall be accompanied by a statement signed by the Contractor or subcontractor or an officer, employee, or agent of the Contractor or subcontractor which avers that: (i) he or she has examined the certified payroll records required to be submitted by the Act and such records are true and accurate; (ii) the hourly rate paid to each worker is not less than the general

prevailing rate of hourly wages required; and (iii) the Contractor or subcontractor is aware that filing a certified payroll that he or she knows to be false is a Class A misdemeanor.

4. Employee Interviews. The Contractor and each subcontractor shall permit his/her employees to be interviewed on the job, during working hours, by compliance investigators of the Department or the Department of Labor.

Cook County Prevailing Wage Rates posted on 9/16/2024

						Overtime										
Trade Title	**Rg**	**Type**	**C**	**Base**	**Foreman**	**M-F**	**Sa**	**Su**	**Hol**	**H/W**	**Pension**	**Vac**	**Trng**	**Other Ins**	**Add OT 1.5x owed**	**Add OT 2.0x owed**
ASBESTOS ABT-GEN	All	ALL		50.15	51.15	1.5	1.5	2.0	2.0	17.71	16.92	0.00	0.91		0.00	0.00
ASBESTOS ABT-MEC	All	BLD		41.27	44.57	1.5	1.5	2.0	2.0	15.84	16.02	0.00	0.90		3.11	6.21
BOILERMAKER	All	BLD		55.76	60.77	2.0	2.0	2.0	2.0	6.97	26.44	0.00	3.34	1.95	0.00	38.26
BRICK MASON	All	BLD		52.06	57.27	1.5	1.5	2.0	2.0	12.70	24.54	0.00	1.24	0.00	3.99	7.98
CARPENTER	All	ALL		55.11	57.11	1.5	1.5	2.0	2.0	12.89	26.26	2.15	0.93	0.00	0.00	0.00
CEMENT MASON	All	ALL		52.00	54.00	2.0	1.5	2.0	2.0	17.81	23.00	0.00	1.15		2.00	4.00
CERAMIC TILE FINISHER	All	BLD		47.09	47.09	1.5	1.5	2.0	2.0	13.00	16.82	0.00	1.09	0.00	5.17	10.34
CERAMIC TILE LAYER	All	BLD		54.84	59.84	1.5	1.5	2.0	2.0	13.00	20.68	0.00	1.17	0.00	7.15	14.30
COMMUNICATION ELECTRICIAN	All	BLD		49.86	54.85	1.5	1.5	2.0	2.0	15.60	14.43	1.25	1.22	0.15	0.00	0.00
ELECTRIC PWR EQMT OP	All	ALL		62.10	68.14	1.5	1.5	2.0	2.0	13.08	20.88	0.00	3.32	0.00	18.64	37.28
ELECTRIC PWR GRNDMAN	All	ALL		48.44	68.14	1.5	1.5	2.0	2.0	10.20	16.29	0.00	2.60	0.00	14.55	29.09
ELECTRIC PWR LINEMAN	All	ALL		62.10	68.14	1.5	1.5	2.0	2.0	13.08	20.88	0.00	3.32	0.00	18.64	37.28
ELECTRICIAN	All	ALL		55.55	61.11	1.5	1.5	2.0	2.0	19.06	20.61	1.50	1.78	0.40	0.00	0.00
ELEVATOR CONSTRUCTOR	All	BLD		67.84	76.32	2.0	2.0	2.0	2.0	16.18	20.96	5.42	0.75		0.00	0.00
FENCE ERECTOR	All	ALL		51.00	53.00	1.5	1.5	2.0	2.0	13.74	18.32	0.00	0.75		0.00	0.00
GLAZIER	All	BLD		51.55	53.05	1.5	2.0	2.0	2.0	15.64	26.18	0.00	2.27	0.00	0.00	0.00
HEAT/FROST INSULATOR	All	BLD		55.02	58.32	1.5	1.5	2.0	2.0	15.84	19.01	0.00	0.90		4.60	9.20
IRON WORKER	All	ALL		59.26	62.76	2.0	2.0	2.0	2.0	18.30	26.31	0.00	0.49	0.00	0.00	0.00
LABORER	All	ALL		50.15	50.90	1.5	1.5	2.0	2.0	17.71	16.92	0.00	0.91		0.00	0.00
LATHER	All	ALL		55.11	57.11	1.5	1.5	2.0	2.0	12.89	26.26	2.15	0.93	0.00	0.00	0.00
MACHINIST	All	BLD		58.39	62.39	1.5	1.5	2.0	2.0	9.93	8.95	1.85	1.47		0.00	0.00
MARBLE FINISHER	All	ALL		39.50	53.55	1.5	1.5	2.0	2.0	12.70	22.32	0.00	0.73	0.00	2.88	5.76
MARBLE SETTER	All	BLD		51.00	56.10	1.5	1.5	2.0	2.0	12.70	24.01	0.00	0.92	0.00	3.73	7.45
MATERIAL TESTER I	All	ALL		40.15		1.5	1.5	2.0	2.0	17.71	16.92	0.00	0.91		0.00	0.00
MATERIALS TESTER II	All	ALL		45.15		1.5	1.5	2.0	2.0	17.71	16.92	0.00	0.91		0.00	0.00
MILLWRIGHT	All	ALL		55.11	57.11	1.5	1.5	2.0	2.0	12.89	26.26	2.15	0.93	0.00	0.00	0.00

Cook County Prevailing Wage Rates posted on 9/16/2024

OPERATING ENGINEER	All	BLD	1	60.80	64.80	2.0	2.0	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	2	59.50	64.80	2.0	2.0	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	3	56.95	64.80	2.0	2.0	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	4	55.20	64.80	2.0	2.0	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	5	64.55	64.80	2.0	2.0	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	6	61.80	64.80	2.0	2.0	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	7	63.80	64.80	2.0	2.0	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	1	69.35	69.35	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	2	67.85	69.35	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	3	63.35	69.35	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	4	58.85	69.35	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	5	70.85	69.35	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	6	58.85	69.35	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	1	59.00	63.00	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	2	58.45	63.00	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	3	56.40	63.00	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	4	55.00	63.00	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	5	53.80	63.00	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	6	62.00	63.00	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	7	60.00	63.00	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
ORNAMENTAL IRON WORKER	All	ALL		57.51	60.51	2.0	2.0	2.0	2.0	14.31	26.50	0.00	2.00	0.00	0.00	0.00
PAINTER	All	ALL		53.05	59.68	1.5	1.5	1.5	2.0	15.76	16.19	0.00	1.86	0.00	0.00	0.00
PAINTER - SIGNS	All	BLD		45.49	51.09	1.5	1.5	2.0	2.0	8.20	16.81	0.00	0.00	0.00	0.00	0.00
PILEDRIVER	All	ALL		55.11	57.11	1.5	1.5	2.0	2.0	12.89	26.26	2.15	0.93	0.00	0.00	0.00
PIPEFITTER	All	BLD		57.00	60.00	1.5	1.5	2.0	2.0	13.65	22.85	0.00	3.12	0.00	0.00	0.00
PLASTERER	All	BLD		50.00	53.00	1.5	1.5	2.0	2.0	17.81	21.22	0.00	1.15		0.00	0.00
PLUMBER	All	BLD		58.55	62.05	1.5	1.5	2.0	2.0	17.75	17.74	0.00	1.83		0.00	0.00
ROOFER	All	BLD		50.25	55.25	1.5	1.5	2.0	2.0	11.83	16.44	0.00	1.11	0.00	0.00	0.00
SHEETMETAL WORKER	All	BLD		53.05	57.29	1.5	1.5	2.0	2.0	14.88	28.65	0.00	1.15	0.00	0.00	0.00

Cook County Prevailing Wage Rates posted on 9/16/2024

SIGN HANGER	All	BLD		35.72	38.58	1.5	1.5	2.0	2.0	7.15	4.60	0.00	0.00	0.00	0.00	0.00
SPRINKLER FITTER	All	BLD		60.10	62.85	1.5	1.5	2.0	2.0	14.95	19.30	0.00	1.10	0.00	0.00	0.00
STEEL ERECTOR	All	ALL		59.26	62.76	2.0	2.0	2.0	2.0	18.30	26.31	0.00	0.49	0.00	0.00	0.00
STONE MASON	All	BLD		52.06	57.27	1.5	1.5	2.0	2.0	12.70	24.54	0.00	1.24	0.00	3.99	7.98
SURVEY WORKER	All	BLD		56.50	57.50	1.5	1.5	2.0	2.0	17.75	14.15	0.00	1.49		0.00	0.00
SURVEY WORKER	All	HWY		56.50	57.50	1.5	1.5	2.0	2.0	17.75	14.15	0.00	1.49		0.00	0.00
TERRAZZO FINISHER	All	BLD		48.94	48.94	1.5	1.5	2.0	2.0	13.00	18.42	0.00	1.11	0.00	4.22	8.44
TERRAZZO MECHANIC	All	BLD		52.85	56.35	1.5	1.5	2.0	2.0	13.00	19.81	0.00	1.15	0.00	4.47	8.94
TRAFFIC SAFETY WORKER I	All	HWY		42.10	43.70	1.5	1.5	2.0	2.0	11.11	9.81	0.00	1.05	0.00	0.00	0.00
TRAFFIC SAFETY WORKER II	ALL	HWY		43.10	44.70	1.5	1.5	2.0	2.0	11.11	9.81	0.00	1.05	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	1	43.45		1.5	1.5	2.0	2.0	13.15	16.09	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	2	43.70		1.5	1.5	2.0	2.0	13.15	16.09	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	3	43.90		1.5	1.5	2.0	2.0	13.15	16.09	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	4	44.10		1.5	1.5	2.0	2.0	13.15	16.09	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	1	43.43		1.5	1.5	2.0	2.0	11.70	16.11	0.00	0.25		0.00	0.00
TRUCK DRIVER	W	ALL	2	43.58		1.5	1.5	2.0	2.0	11.70	16.11	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	3	43.78		1.5	1.5	2.0	2.0	11.70	16.11	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	4	43.98		1.5	1.5	2.0	2.0	11.70	16.11	0.00	0.25	0.00	0.00	0.00
TUCKPOINTER	All	BLD		51.53	52.53	1.5	1.5	2.0	2.0	10.05	22.66	0.00	1.15	0.00	0.00	0.00

Legend

Rg Region
Type Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers
C Class
Base Base Wage Rate
OT M-F Unless otherwise noted, OT pay is required for any hour greater than 8 worked each day, Mon through Fri. The number listed is the multiple of the base wage.
OT Sa Overtime pay required for every hour worked on Saturdays
OT Su Overtime pay required for every hour worked on Sundays
OT Hol Overtime pay required for every hour worked on Holidays
H/W Health/Welfare benefit
Vac Vacation
Trng Training

Other Ins Employer hourly cost for any other type(s) of insurance provided for benefit of worker.

Explanations COOK COUNTY

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

TRUCK DRIVERS (WEST) - That part of the county West of Barrington Road.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date. ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER

The grouting, cleaning, and polishing of all classes of tile, whether for interior or exterior purposes, all burned, glazed or unglazed products; all composition materials, granite tiles, warning detectable tiles, cement tiles, epoxy composite materials, pavers, glass, mosaics, fiberglass, and all substitute materials, for tile made in tile-like units; all mixtures in tile like form of cement, metals, and other materials that are for and intended for use as a finished floor surface, stair treads, promenade roofs, walks, walls, ceilings, swimming pools, and all other places where tile is to form a finished interior or exterior. The mixing of all setting mortars including but not limited to thin-set mortars, epoxies, wall mud, and any other sand and cement mixtures or adhesives when used in the preparation, installation, repair, or maintenance of tile and/or similar materials. The handling and unloading of all sand, cement, lime, tile, fixtures, equipment, adhesives, or any other materials to be used in the preparation, installation, repair, or maintenance of tile and/or similar materials. Ceramic Tile Finishers shall fill all joints and voids regardless of method on all tile work, particularly and especially after installation of said tile work. Application of any and all protective coverings to all types of tile installations including, but not be limited to, all soap compounds, paper products, tapes, and all polyethylene coverings, plywood, masonite, cardboard, and any new type of products that may be used to protect tile installations, Blastrac equipment, and all floor scarifying equipment used in preparing floors to receive tile. The clean up and removal of all waste and materials. All demolition of existing tile floors and walls to be re-tiled.

COMMUNICATIONS ELECTRICIAN

Installation, operation, inspection, maintenance, repair and service of radio, television, recording, voice sound vision production and reproduction, telephone and telephone interconnect, facsimile, data apparatus, coaxial, fibre optic and wireless equipment, appliances and systems used for the transmission and reception of signals of any nature, business, domestic, commercial,

education, entertainment, and residential purposes, including but not limited to, communication and telephone, electronic and sound equipment, fibre optic and data communication systems, and the performance of any task directly related to such installation or service whether at new or existing sites, such tasks to include the placing of wire and cable and electrical power conduit or other raceway work within the equipment room and pulling wire and/or cable through conduit and the installation of any incidental conduit, such that the employees covered hereby can complete any job in full.

MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all material that may be needed for the installation of such materials, building of scaffolding, polishing if needed, patching, waxing of material if damaged, pointing up, caulking, grouting and cleaning of marble, holding water on diamond or Carborundum blade or saw for setters cutting, use of tub saw or any other saw needed for preparation of material, drilling of holes for wires that anchor material set by setters, mixing up of molding plaster for installation of material, mixing up thin set for the installation of material, mixing up of sand to cement for the installation of material and such other work as may be required in helping a Marble Setter in the handling of all material in the erection or installation of interior marble, slate, travertine, art marble, serpentine, alberene stone, blue stone, granite and other stones (meaning as to stone any foreign or domestic materials as are specified and used in building interiors and exteriors and customarily known as stone in the trade), carrara, sanionyx, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast tile, steps, risers treads, base, or any other materials that may be used as substitutes for any of the aforementioned materials and which are used on interior and exterior which are installed in a similar manner.

MATERIAL TESTER I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

MATERIAL TESTER II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATING ENGINEER - BUILDING

Class 1. Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson Attachment; Batch Plant; Benoto (requires Two Engineers); Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Throttle Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Conveyor (Truck Mounted); Concrete Paver Over 27E cu. ft; Concrete Paver 27E cu. ft. and Under: Concrete Placer; Concrete Placing Boom; Concrete Pump (Truck Mounted); Concrete Tower; Cranes, All; Cranes, Hammerhead; Cranes, (GCI and similar Type); Creter Crane; Spider Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Heavy Duty Self-Propelled Transporter or Prime Mover; Highlift Shovels or Front Endloader 2-1/4 yd. and over; Hoists, Elevators, outside type rack and pinion and similar machines; Hoists, One, Two and Three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment); Locomotives, All; Motor Patrol; Lubrication Technician; Manipulators; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes: Squeeze Cretes-Screw Type Pumps; Gypsum Bulker and Pump; Raised and Blind Hole Drill; Roto Mill Grinder; Scoops - Tractor Drawn; Slip-Form Paver; Straddle Buggies; Operation of Tie Back Machine; Tournapull; Tractor with Boom and Side Boom; Trenching Machines.

Class 2. Boilers; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks; Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Inside Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Screed; Rock Drill (Self-Propelled); Rock Drill (Truck Mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

Class 3. Air Compressor; Combination Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators (remodeling or renovation work); Hydraulic Power Units (Pile Driving, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Low Boys; Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 4. Bobcats and/or other Skid Steer Loaders; Oilers; and Brick Forklift.

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO or other similar type machines: ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower Cranes of all types: Creter Crane: Spider Crane; Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Dredges; Elevators, Outside type Rack & Pinion and Similar Machines; Formless Curb and Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Truck Mounted; Hoists, One, Two and Three Drum; Heavy Duty Self-Propelled Transporter or Prime Mover; Hydraulic Backhoes; Backhoes with shear attachments up to 40' of boom reach; Lubrication Technician; Manipulators; Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Snow Melters; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Operation of Tieback Machine; Tractor Drawn Belt Loader; Tractor Drawn Belt Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Traffic Barrier Transfer Machine; Trenching; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole Drills (Tunnel Shaft); Underground Boring and/or Mining Machines 5 ft. in diameter and over tunnel, etc; Underground Boring and/or Mining Machines under 5 ft. in diameter; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro

Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Diggers; Low Boys; Pipe Jacking Machines; Post-Hole Digger; Power Saw, Concrete Power Driven; Pug Mills; Rollers, other than Asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with "A" Frame; Work Boats; Tamper-Form-Motor Driven.

Class 4. Air Compressor; Combination - Small Equipment Operator; Directional Boring Machine; Generators; Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Vacuum Trucks (excluding hose work); Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. SkidSteer Loader (all); Brick Forklifts; Oilers.

Class 6. Field Mechanics and Field Welders

Class 7. Dowell Machine with Air Compressor; Gradall and machines of like nature.

OPERATING ENGINEER - FLOATING

Class 1. Craft Foreman; Master Mechanic; Diver/Wet Tender; Engineer; Engineer (Hydraulic Dredge).

Class 2. Crane/Backhoe Operator; Boat Operator with towing endorsement; Mechanic/Welder; Assistant Engineer (Hydraulic Dredge); Leverman (Hydraulic Dredge); Diver Tender.

Class 3. Deck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more); Tug/Launch Operator; Loader/Dozer and like equipment on Barge, Breakwater Wall, Slip/Dock, or Scow, Deck Machinery, etc.

Class 4. Deck Equipment Operator, Machineryman/Fireman (4 Equipment Units or More); Off Road Trucks; Deck Hand, Tug Engineer, Crane Maintenance (50 Ton Capacity and Under) or Backhoe Weighing (115,000 pounds or less); Assistant Tug Operator.

Class 5. Friction or Lattice Boom Cranes.

Class 6. ROV Pilot, ROV Tender

SURVEY WORKER

Cook County Prevailing Wage Rates posted on 9/16/2024

Operates survey equipment (such as levels, transits, data collectors, GPS and robotic total stations) for the purpose of performing construction layout and/or grade checking.

SURVEY FOREMAN

Operates survey equipment (such as levels, transits, data collectors, GPS and robotic total stations) for the purpose of performing construction layout and/or grade checking; oversees survey crew operations; and/or coordinates work of survey crews.

TERRAZZO FINISHER

The handling of sand, cement, marble chips, and all other materials that may be used by the Mosaic Terrazzo Mechanic, and the mixing, grinding, grouting, cleaning and sealing of all Marble, Mosaic, and Terrazzo work, floors, base, stairs, and wainscoting by hand or machine, and in addition, assisting and aiding Marble, Masonic, and Terrazzo Mechanics.

TRAFFIC SAFETY Worker I

Traffic Safety Worker I - work associated with the delivery, installation, pick-up and servicing of safety devices during periods of roadway construction, including such work as set-up and maintenance of barricades, barrier wall reflectors, drums, cones, delineators, signs, crash attenuators, glare screen and other such items, and the layout and application or removal of conflicting and/or temporary roadway markings utilized to control traffic in construction zones, as well as flagging for these operations.

TRAFFIC SAFETY WORKER II

Work associated with the installation and removal of permanent pavement markings and/or pavement markers including both installations performed by hand and installations performed by truck.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION - EAST & WEST

Class 1. Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamsters; Unskilled Dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

Class 2. Four axle trucks; Dump Crets and Adgetors under 7 yards; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers when pulling other than self-loading equipment or similar equipment under 16 cubic yards; Mixer Trucks under 7 yards; Ready-mix Plant Hopper Operator, and Winch Trucks, 2 Axles.

Class 3. Five axle trucks; Dump Crets and Adgetors 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnatrailers or turnapulls when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives and/or Fission Material Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch

trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

Class 4. Six axle trucks; Dual-purpose vehicles, such as mounted crane trucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

Notwithstanding the difference in the classification title, the classification entitled "Material Tester I" involves the same job duties as the classification entitled "Material Tester/Inspector I". Likewise, the classification entitled "Material Tester II" involves the same job duties as the classification entitled "Material Tester/Inspector II".

Cook County Prevailing Wage Rates posted on 9/16/2024

CHECK SHEET #LRS13

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

SPECIAL PROVISION
FOR
SELECTION OF LABOR

Effective: January 1, 1999
Revised: January 1, 2012

The Contractor shall comply with all Illinois statutes pertaining to the selection of labor.

Employment of Illinois Workers During Periods of Excessive Unemployment. Whenever there is a period of excessive unemployment in Illinois, which is defined herein as any month immediately following two consecutive calendar months during which the level of unemployment in the State of Illinois has exceeded five percent as measured by the United States Bureau of Labor Statistics in its monthly publication of employment and unemployment figures, the Contractor shall employ at least 90 percent Illinois laborers. "Illinois laborer" means any person who has resided in Illinois for at least 30 days and intends to become or remain an Illinois resident.

Other laborers may be used when Illinois laborers as defined herein are not available, or are incapable of performing the particular type of work involved, if so certified by the Contractor and approved by the Engineer. The Contractor may place no more than three of his regularly employed non-resident executive and technical experts, who do not qualify as Illinois laborers, to do work encompassed by this Contract during a period of excessive unemployment.

This provision applies to all labor, whether skilled, semi-skilled or unskilled, whether manual or non-manual.

CHECK SHEET #LRS17

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

SPECIAL PROVISION
FOR
SUBSTANCE ABUSE PREVENTION PROGRAM

Effective: January 1, 2008
Revised: January 1, 2014

In addition to all other labor requirements set forth in this proposal and in the Standard Specification for Road and Bridge Construction, adopted by the Department, during the performance of this contract, the Contractor for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor") agrees as follows:

Substance Abuse Prevention Program. Before the Contractor and any subcontractor commences work, the Contractor and any subcontractor shall have in place a written Substance Abuse Prevention Program for the prevention of substance abuse among its employees which meets or exceeds the requirements in 820 ILCS 265 or shall have a collective bargaining agreement in effect dealing with the subject matter of 820 ILCS 265.

The Contractor and any subcontractor shall file with the public body engaged in the construction of the public works: a copy of the Substance Abuse Prevention Program along with a cover letter certifying that their program meets the requirements of the Act, or a letter certifying that the Contractor or a subcontractor has a collective bargaining agreement in effect dealing with the subject matter of this Act.

APPENDIX B

BDE SPECIAL PROVISIONS

BDE SPECIAL PROVISIONS
For the November 8, 2024 Lettings

The following special provisions indicated by a “check mark” are applicable to this contract and will be included by the Project Coordination and Implementation Section of the Bureau of Design & Environment (BDE).

File Name	#		Special Provision Title	Effective	Revised
80099	1	☐	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2022
80274	2	☐	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2022
80192	3	☐	Automated Flagger Assistance Devices	Jan. 1, 2008	April 1, 2023
80173	4	☐	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
80426	5	☐	Bituminous Surface Treatment with Fog Seal	Jan. 1, 2020	Jan. 1, 2022
* 80241	6	☐	Bridge Demolition Debris	July 1, 2009	
* 5053I	7	☐	Building Removal	Sept. 1, 1990	Aug. 1, 2022
* 5026I	8	☐	Building Removal with Asbestos Abatement	Sept. 1, 1990	Aug. 1, 2022
80449	9	☐	Cement, Type IL	Aug. 1, 2023	
80384	10	☐	Compensable Delay Costs	June 2, 2017	April 1, 2019
* 80198	11	☐	Completion Date (via calendar days)	April 1, 2008	
* 80199	12	☐	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80453	13	☐	Concrete Sealer	Nov. 1, 2023	
80261	14	☐	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
80434	15	☐	Corrugated Plastic Pipe (Culvert and Storm Sewer)	Jan. 1, 2021	
* 80029	16	☐	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Mar. 2, 2019
80229	17	☐	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
80452	18	☐	Full Lane Sealant Waterproofing System	Nov. 1, 2023	
80447	19	☐	Grading and Shaping Ditches	Jan. 1, 2023	
80433	20	☐	Green Preformed Thermoplastic Pavement Markings	Jan. 1, 2021	Jan. 1, 2022
80443	21	☐	High Tension Cable Median Barrier Removal	April 1, 2022	
80456	22	☐	Hot-Mix Asphalt	Jan. 1, 2024	
80446	23	☐	Hot-Mix Asphalt - Longitudinal Joint Sealant	Nov. 1, 2022	Aug. 1, 2023
80438	24	☒	Illinois Works Apprenticeship Initiative – State Funded Contracts	June 2, 2021	April 2, 2024
80045	25	☐	Material Transfer Device	June 15, 1999	Jan. 1, 2022
80450	26	☐	Mechanically Stabilized Earth Retaining Walls	Aug. 1, 2023	
80441	27	☐	Performance Graded Asphalt Binder	Jan. 1, 2023	
80451	28	☐	Portland Cement Concrete	Aug. 1, 2023	
80459	29	☐	Preformed Plastic Pavement Marking	June 2, 2024	
* 3426I	30	☐	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2022
80455	31	☒	Removal and Disposal of Regulated Substances	Jan. 1, 2024	April 1, 2024
80445	32	☐	Seeding	Nov. 1, 2022	
80457	33	☐	Short Term and Temporary Pavement Markings	April 1, 2024	April 2, 2024
80448	34	☐	Source of Supply and Quality Requirements	Jan. 2, 2023	
80340	35	☐	Speed Display Trailer	April 2, 2014	Jan. 1, 2022
80127	36	☐	Steel Cost Adjustment	April 2, 2004	Jan. 1, 2022
80397	37	☐	Subcontractor and DBE Payment Reporting	April 2, 2018	
80391	38	☐	Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
80437	39	☐	Submission of Payroll Records	April 1, 2021	Nov. 2, 2023
80435	40	☐	Surface Testing of Pavements – IRI	Jan. 1, 2021	Jan. 1, 2023
80410	41	☐	Traffic Spotters	Jan. 1, 2019	
* 20338	42	☐	Training Special Provisions	Oct. 15, 1975	Sept. 2, 2021
80429	43	☐	Ultra-Thin Bonded Wearing Course	April 1, 2020	Jan. 1, 2022
80439	44	☒	Vehicle and Equipment Warning Lights	Nov. 1, 2021	Nov. 1, 2022
80458	45	☐	Waterproofing Membrane System	Aug. 1, 2024	
80302	46	☐	Weekly DBE Trucking Reports	June 2, 2012	Nov. 1, 2021
80454	47	☐	Wood Sign Support	Nov. 1, 2023	
80427	48	☒	Work Zone Traffic Control Devices	Mar. 2, 2020	
* 80071	49	☐	Working Days	Jan. 1, 2002	

Highlighted items indicate a new or revised special provision for the letting.

An * indicates the special provision requires additional information from the designer, which needs to be submitted separately. The Project Coordination and Implementation Section will then include the information in the applicable special provision.

The following special provisions are in the 2024 Supplemental Specifications and Recurring Special Provisions.

File Name	Special Provision Title	New Location(s)	Effective	Revised
80436	Blended Finely Divided Minerals	Articles 1010.01 & 1010.06	April 1, 2021	
80440	Waterproofing Membrane System	Article 1061.05	Nov. 1, 2021	

ILLINOIS WORKS APPRENTICESHIP INITIATIVE – STATE FUNDED CONTRACTS (BDE)

Effective: June 2, 2021
Revised: April 2, 2024

Illinois Works Jobs Program Act (30 ILCS 559/20-1 et seq.). For contracts having an awarded contract value of $500,000 or more, the Contractor shall comply with the Illinois Works Apprenticeship Initiative (30 ILCS 559/20-20 to 20-25) and all applicable administrative rules. The goal of the Illinois Apprenticeship Works Initiative is that apprentices will perform either 10% of the total labor hours actually worked in each prevailing wage classification or 10% of the estimated labor hours in each prevailing wage classification, whichever is less. Of this goal, at least 50% of the labor hours of each prevailing wage classification performed by apprentices shall be performed by graduates of the Illinois Works Pre-Apprenticeship Program, the Illinois Climate Works Pre-Apprenticeship Program, or the Highway Construction Careers Training Program.

The Contractor may seek from the Department of Commerce and Economic Opportunity (DCEO) a waiver or reduction of this goal in certain circumstances pursuant to 30 ILCS 559/20-20(b). The Contractor shall ensure compliance during the term of the contract and will be required to report on and certify its compliance. An apprentice use plan, apprentice hours, and a compliance certification shall be submitted to the Engineer on forms provided by the Department and/or DCEO.

80438

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES (BDE)

Effective: January 1, 2024
Revised: April 1, 2024

Revise the first paragraph of Article 669.04 of the Standard Specifications to read:

"**669.04 Regulated Substances Monitoring.** Regulated substances monitoring includes environmental observation and field screening during regulated substances management activities. The excavated soil and groundwater within the work areas shall be managed as either uncontaminated soil, hazardous waste, special waste, or non-special waste.

As part of the regulated substances monitoring, the monitoring personnel shall perform and document the applicable duties listed on form BDE 2732 "Regulated Substances Monitoring Daily Record (RSMDR)"."

Revise the first two sentences of the nineteenth paragraph of Article 669.05 of the Standard Specifications to read:

"The Contractor shall coordinate waste disposal approvals with the disposal facility and provide the specific analytical testing requirements of that facility. The Contractor shall make all arrangements for collection, transportation, and analysis of landfill acceptance testing."

Revise the last paragraph of Article 669.05 of the Standard Specifications to read:

"The Contractor shall select a permitted landfill facility or CCDD/USFO facility meeting the requirements of 35 Ill. Admin. Code Parts 810-814 or Part 1100, respectively. The Department will review and approve or reject the facility proposed by the Contractor based upon information provided in BDE 2730. The Contractor shall verify whether the selected facility is compliant with those applicable standards as mandated by their permit and whether the facility is presently, has previously been, or has never been, on the United States Environmental Protection Agency (U.S. EPA) National Priorities List or the Resource Conservation and Recovery Act (RCRA) List of Violating Facilities. The use of a Contractor selected facility shall in no manner delay the construction schedule or alter the Contractor's responsibilities as set forth."

Revise the first paragraph of Article 669.07 of the Standard Specifications to read:

"**669.07 Temporary Staging.** Soil classified according to Articles 669.05(a)(2), (b)(1), or (c) may be temporarily staged at the Contractor's option. All other soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) shall be managed and disposed of without temporary staging to the greatest extent practicable. If circumstances beyond the Contractor's control require temporary staging of these latter materials, the Contractor shall request approval from the Engineer in writing.

Topsoil for re-use as final cover which has been field screened and found not to exhibit PID readings over daily background readings as documented on the BDE 2732, visual staining or

odors, and is classified according to Articles 669.05(a)(2), (a)(3), (a)(4), (b)(1), or (c) may be temporarily staged at the Contractor's option."

Add the following paragraph after the sixth paragraph of Article 669.11 of the Standard Specifications.

"The sampling and testing of effluent water derived from dewatering discharges for priority pollutants volatile organic compounds (VOCs), priority pollutants semi-volatile organic compounds (SVOCs), or priority pollutants metals, will be paid for at the contract unit price per each for VOCS GROUNDWATER ANALYSIS using EPA Method 8260B, SVOCS GROUNDWATER ANALYSIS using EPA Method 8270C, or RCRA METALS GROUNDWATER ANALYSIS using EPA Methods 6010B and 7471A. This price shall include transporting the sample from the job site to the laboratory."

Revise the first sentence of the eight paragraph of Article 669.11 of the Standard Specifications to read:

"Payment for temporary staging of soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) to be managed and disposed of, if required and approved by the Engineer, will be paid according to Article 109.04."

80455

VEHICLE AND EQUIPMENT WARNING LIGHTS (BDE)

Effective: November 1, 2021
Revised: November 1, 2022

Add the following paragraph after the first paragraph of Article 701.08 of the Standard Specifications:

"The Contractor shall equip all vehicles and equipment with high-intensity oscillating, rotating, or flashing, amber or amber-and-white, warning lights which are visible from all directions. In accordance with 625 ILCS 5/12-215, the lights may only be in operation while the vehicle or equipment is engaged in construction operations."

80439

WORK ZONE TRAFFIC CONTROL DEVICES (BDE)

Effective: March 2, 2020

Add the following to Article 701.03 of the Standard Specifications:

"(q) Temporary Sign Supports .....1106.02"

Revise the third paragraph of Article 701.14 of the Standard Specifications to read:

"For temporary sign supports, the Contractor shall provide a FHWA eligibility letter for each device used on the contract. The letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device. The signs shall be supported within 20 degrees of vertical. Weights used to stabilize signs shall be attached to the sign support per the manufacturer's specifications."

Revise the first paragraph of Article 701.15 of the Standard Specifications to read:

"**701.15 Traffic Control Devices.** For devices that must meet crashworthiness standards, the Contractor shall provide a manufacturer's self-certification or a FHWA eligibility letter for each Category 1 device and a FHWA eligibility letter for each Category 2 and Category 3 device used on the contract. The self-certification or letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device."

Revise the first six paragraphs of Article 1106.02 of the Standard Specifications to read:

"**1106.02 Devices.** Work zone traffic control devices and combinations of devices shall meet crashworthiness standards for their respective categories. The categories are as follows.

Category 1 includes small, lightweight, channelizing and delineating devices that have been in common use for many years and are known to be crashworthy by crash testing of similar devices or years of demonstrable safe performance. These include cones, tubular markers, plastic drums, and delineators, with no attachments (e.g. lights). Category 1 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 1 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2024.

Category 2 includes devices that are not expected to produce significant vehicular velocity change but may otherwise be hazardous. These include vertical panels with lights, barricades, temporary sign supports, and Category 1 devices with attachments (e.g. drums with lights). Category 2 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 2 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2024.

Category 3 includes devices that are expected to cause significant velocity changes or other potentially harmful reactions to impacting vehicles. These include crash cushions (impact

attenuators), truck mounted attenuators, and other devices not meeting the definitions of Category 1 or 2. Category 3 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 3 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2029. Category 3 devices shall be crash tested for Test Level 3 or the test level specified.

Category 4 includes portable or trailer-mounted devices such as arrow boards, changeable message signs, temporary traffic signals, and area lighting supports. It is preferable for Category 4 devices manufactured after December 31, 2019 to be MASH-16 compliant; however, there are currently no crash tested devices in this category, so it remains exempt from the NCHRP 350 or MASH compliance requirement.

For each type of device, when no more than one MASH-16 compliant is available, an NCHRP 350 or MASH-2009 compliant device may be used, even if manufactured after December 31, 2019."

Revise Articles 1106.02(g), 1106.02(k), and 1106.02(l) to read:

"(g) Truck Mounted/Trailer Mounted Attenuators. The attenuator shall be approved for use at Test Level 3. Test Level 2 may be used for normal posted speeds less than or equal to 45 mph.

(k) Temporary Water Filled Barrier. The water filled barrier shall be a lightweight plastic shell designed to accept water ballast and be on the Department's qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings.

(l) Movable Traffic Barrier. The movable traffic barrier shall be on the Department's qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings. The barrier shall be capable of being moved on and off the roadway on a daily basis."

80427

APPENDIX C

LOCAL ROADS SPECIAL PROVISIONS

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

HR Green, Inc.

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

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

SPECIAL PROVISION FOR CONSTRUCTION AND MAINTENANCE SIGNS

Effective: January 1, 2004
Revised: June 1, 2007

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

701.14. Signs. Add the following paragraph to Article 701.14:

All warning signs shall have minimum dimensions of 1200 mm x 1200 mm (48" x 48") and have a black legend on a fluorescent orange reflectorized background, meeting, as a minimum, Type AP reflectivity requirements of Table 1091-2 in Article 1091.02.

APPENDIX D

VILLAGE OF HOFFMAN ESTATES
SALES TAX EXEMPTION NUMBER AUTORIZATION FORM

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.

APPENDIX E

VILLAGE OF HOFFMAN ESTATES
MATERIALS AND ETIMATED QUANTITIES ATTACHMENT

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)					

APPENDIX F

DCEO BEP UTILIZATION PLAN

DCEO Project # SD230097

DCEO BEP UTILIZATION PLAN

Minority, Female, Persons with Disability Status and Subcontracting

The Business Enterprise for Minorities, Women, and Persons with Disabilities Act (30 ILCS 575/0.01 *et seq.*)("BEP Act") establishes a goal for contracting with businesses that have been certified as minority-owned business enterprises ("MBE"), women-owned business enterprises ("WBE"), and persons with disabilities-owned business enterprises ("PBE") ("BEP vendors" collectively).

Goal to be achieved by the Grantee: This utilization plan includes a specific Business Enterprise Program ("BEP") utilization goal of 28 **%** based on the availability of certified vendors to perform the anticipated direct subcontracting opportunities of this plan. The goal is comprised of 18% MBE and 5% WBE and 5% PBE or a combined goal of 10%

Utilization Plan ("UP") must demonstrate that the Grantee has either met the UP goal or that it has made good faith efforts to do so.

Certified Vendor Locator Reference: https://cms.diversitycompliance.com

Grantee Assurance: The Grantee shall not discriminate on the basis of race, color, national origin, sexual orientation or sex in the performance of this plan. Failure by the Grantee to carry out these requirements is a material breach of this plan, which may result in the termination of the Grant Agreement or such other remedy, as the Agency/ Grantor deems appropriate. This assurance must be included in each contract that the Grantee signs with a contractor, subcontractor or supplier.

Calculating Certified Vendor Participation: The Utilization Plan should include the work anticipated to be performed by all certified vendors and paid for upon satisfactory completion. Only the value of payments made for the work actually performed by certified vendors is counted toward the plan goal. Counting guidelines are summarized below:

1) The value of the work actually performed by the certified vendor shall be counted towards the goal. The entire amount of that portion of the Grant Agreement that is performed by the certified vendors, including supplies purchased or equipment leased by the certified vendor shall be counted, except supplies purchased and equipment rented from the Grantee.

2) A joint venture shall count the portion of the total dollar value of the Grant Agreement equal to the distinct, clearly defined portion of the work of the Grant Agreement that the certified vendor performs with its forces toward the goal. A joint venture shall also count the dollar value of work subcontracted to other certified vendors. Work performed by the forces of a non-certified joint venture partner shall not be counted toward the goal.

3) When a certified vendor subcontracts part of the work to another firm, the value of the subcontracted work shall be counted toward the Grant Agreement goal only if the certified vendor 's subcontractor is a certified vendor. Work that a certified vendor subcontracts to a non-certified vendor will not count towards the goal.

4) A Grantee shall count towards the goal 100% of its expenditures for materials and supplies required under the Grant Agreement and obtained from a certified vendor manufacturer, regular dealer or supplier.

5) A Grantee shall count towards the goal the following expenditures to certified vendors that are not manufacturers, regular dealers or suppliers:

   a. The fees or commissions charged for providing a bona fide service, such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials or supplies required for performance of the Grant Agreement, provided that the fee or commission is determined by the Department of Commerce & Economic Opportunity ("DCEO") to be reasonable and not excessive as compared with fees customarily allowed for similar services.

   b. The fees charged for delivery of materials and supplies required by the Grant Agreement (but not the cost of the materials and supplies themselves) when the hauler, trucker, or delivery service is not also the manufacturer of or a regular dealer in the materials and supplies, provided that the fee is determined by DCEO to be reasonable and not excessive as compared with fees customarily allowed for similar services. The certified vendor trucking firm must be responsible for the management and supervision of the entire trucking operation for which it is responsible and must itself own and operate at least one fully licensed, insured and operational truck used on the project.

   c. The fees or commissions charged for providing any bonds or insurance specifically required for the performance on the project, provided that the fee or commission is determined by DCEO to be reasonable and not excessive as compared with fees customarily allowed for similar services.

6) A Grantee shall count towards the goal only expenditures to firms that perform a commercially useful function in the work of the Grant Agreement.

   a. A firm is considered to perform a commercially useful function when it is responsible for the execution of a distinct element of the work on the project and carries out its responsibilities by actually performing, managing, and supervising the work involved. The certified vendor must also be responsible, with respect to materials or supplies used on the project, for negotiating price, determining quality and quantity, ordering the materials or supplies, and installing the materials (where applicable) and paying for the materials or supplies. To determine whether a firm is performing a commercially useful function, DCEO shall evaluate the amount of work subcontracted, whether the amount the firm is to be paid under this plan is commensurate with the work it is actually performing and the credit claimed for its performance of the work, industry practices and other relevant factors.

   b. A certified vendor does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction through which funds are passed in order to obtain certified vendor participation. In determining whether a certified vendor is such an extra participant, DCEO shall examine similar transactions, particularly those in which the certified vendors do not participate, and industry practices.

7) A Grantee shall not count towards the goal expenditures that are not direct, necessary and proximately related to the work of this plan. Only the amount of services or goods that are directly attributable to the performance of the scope of work shall be counted. Ineligible expenditures include general office overhead or other Grantee support activities.

DCEO Project # SD230097

_____ (the Grantee) submits the following Utilization Plan as part of our proposal in accordance with the requirements of the BEP Act. We understand that compliance with the BEP Act is required as part of this plan.

_____ (the Grantee) makes the following assurances and agrees to include the assurance in each contract with a contractor, subcontractor or supplier utilized on this plan: we shall not discriminate on the basis of race, color, national origin, sexual orientation or sex in the performance of this plan. Failure to carry out these requirements is a material breach of this plan, which may result in the termination of this plan or such other remedy, as the Agency/ Grantor deems appropriate.

Grantee's person responsible for compliance

Name: _____

Title: _____

Telephone: _____

E-mail: _____

We submit one (1) of the following statements:

☐ We attach Section I to demonstrate that our Plan fully meets the BEP utilization goal of % through subcontracting.

☐ We attach Section 1 to detail that we do not fully meet the BEP utilization goal. We also attach Section II, Demonstration of Good Faith Efforts.

_____ _____

Grantee Authorized Signature Date

Grantee Authorized Name and Title

DCEO Project # SD230097

Section I
Utilization of Certified Vendors
(Please submit a separate form for ***each*** proposed certified vendor)

To achieve the BEP utilization goal through contracting, the following is proposed:

1) The proposed certified vendor's company name, address and phone number:
   _____
   _____
   _____

   At the time of submission, the above vendor is:
   ☐ Certified with the CMS BEP as: ☐ MBE ☐ WBE ☐ WMBE ☐ PBE
   ☐ Certified with a certifying entity: _____
   ☐ Meets the criteria and has submitted an application for certification with BEP. Application # _____

2) A detailed description of the commercially useful work to be done by this certified vendor is as follows:
   _____
   _____
   _____

3) The total estimated cost to the state for the Grant Agreement is $ 1,000,000.00 . The portion of the Grant Agreement which will be contracted/subcontracted to this certified vendor is **$**_____ or _____**%** of the total cost of the Grant Agreement.

4) A joint venture agreement is not required, as the arrangement between _____ and _____ is that of contractor/ sub-contractor and not a joint venture.

5) The Grantee has not prohibited or otherwise limited _____ (certified vendor) from providing contractor/ sub-contractor quotes to other potential bidders/ Grantees.

We understand that DCEO Office of Grants Management may require additional information to verify our compliance and we agree to cooperate immediately in submitting to interviews, allowing entry to any of our office locations, providing further documentation, or soliciting the cooperation of our proposed certified vendor. We will maintain appropriate records relating to our utilization of the certified vendor including: invoices, cancelled checks, books of account and time records.

_____ _____
Grantee Authorized Signature Date

DCEO Project # SD230097

Section I
Utilization of Certified Vendors
(Please submit a separate form for ***each*** proposed certified vendor)

To achieve the BEP utilization goal through contracting, the following is proposed:

1) The proposed certified vendor's company name, address and phone number:

_____

_____

_____

At the time of submission, the above certified vendor is (check one box):

☐ Certified with the CMS Business Enterprise Program (BEP) as ☐ MBE ☐ WBE ☐ MWBE ☐ BE

☐ Certified with a certifying entity: _____

☐ Meets the criteria and has submitted an application for certification with BEP. Application # _____

2) A detailed description of the commercially useful work to be done by this certified vendor is as follows:

_____

_____

_____

3) The total estimated cost to the state for the Grant Agreement is $ 1,000,000.00 . The portion of the Grant Agreement which will be contracted/subcontracted to this certified vendor is **$**_____ or _____**%** of the total cost of the Grant Agreement.

4) A joint venture agreement is not required, as the arrangement between _____ and _____ is that of contractor/ sub-contractor and not a joint venture.

5) The Grantee has not prohibited or otherwise limited _____ (certified vendor) from providing contractor/ sub-contractor quotes to other potential bidders/ Grantees.

We understand that DCEO Office of Grants Management may require additional information to verify our compliance and we agree to cooperate immediately in submitting to interviews, allowing entry to any of our office locations, providing further documentation, or soliciting the cooperation of our proposed certified vendor. We will maintain appropriate records relating to our utilization of the certified vendor including: invoices, cancelled checks, books of account and time records.

_____ _____

Grantee Authorized Signature Date

Section II
Demonstration of Good Faith Efforts to Achieve BEP Goal

If the BEP participation goal will not be achieved in whole or part, the Good Faith Efforts procedures outlined in this document will be used to evaluate submitted Utilization Plans. A Grantee providing Good Faith Effort documentation and a request for waiver must complete checklist (Section II A) and contacts log (Section II B). The Grantee will promptly provide evidence whether hard copy or via electronic format in support of its Good Faith Efforts to OGM upon request.

Section II A
Good Faith Efforts Checklist
Insert on each line below the initials of the authorized Grantee representative who is certifying on behalf of the Grantee that the Grantee/General Contractor has completed the activities described below. If any of the items below were not completed, attach a detailed written explanation of why each such item was not completed. If any other efforts were made to obtain BEP participation in addition to the items listed below, attach a detailed written explanation.

Evidence of Good Faith Efforts that *must* be included pursuant to the BEP Act (30 ILCS 575/7), if available:

_____ Utilize the website: https://cms.diversitycompliance.com to identify BEP certified vendors located in the geographic area of the project who could perform parts of the scope of work. At a minimum, email all listed vendors with project specification sufficient to build a quote, then solicit quotes from all vendors who express an interest with follow-up emails and telephone calls. Documentation of these efforts must be submitted as evidence, including copies of all emails or texts sent.

____ Demonstrated that the number of eligible businesses owned by minorities, women, and persons with disabilities identified by Grantee is insufficient to ensure adequate competition. Mark N/A if sufficient number of BEP Vendors was found.

_____ Identified the difference in cost between the bids or proposals being offered by BEP vendors and the Grantee's expectations of reasonable prices on proposals within that class.

_____ Provided a list of eligible BEP vendors that the Grantee has used in the current and prior fiscal year.

All other evidence of Good Faith Efforts made by the Grantee to secure eligible BEP vendors:

_____ Submit on Grantee letterhead, letter indicating request for full or partial waiver of BEP Goal, signed by Authorized Grantee representative.

____ Identified portions of the project work capable of performance by available BEP vendors, including, where appropriate, breaking out Grant Agreement work items into economically feasible units to facilitate participation even when the Grantee could perform those scopes with its own forces.

____ Solicited through reasonable and available means (e.g. written notices, advertisements) BEP vendors to perform the type of work that could be contracted/ sub-contracted on this project, within sufficient time to allow them to respond.

____ Provided timely and adequate information about the plans, specifications and requirements of the Grant Agreement. Followed up initial solicitations to answer questions and encourage BEP vendors to submit proposals or bids.

_____ Negotiated in good faith with interested BEP vendors who submitted proposals or bids and thoroughly investigated their capabilities.

_____ Made efforts to assist interested BEP vendors in obtaining bonding, lines of credit, or insurance as may be required for performance of the Grant Agreement (if applicable).

_____ Utilized resources available to identify available certified vendors, including, but not limited to, BEP assistance staff; local, state and federal minority or women business assistance offices; and other organizations that provide assistance in the recruitment and placement of diverse businesses.

Section II B
Good Faith Efforts Contacts Log for Soliciting BEP Contractor/ Sub-Contractor Participation

Use this form to document all contacts and responses (telephone, e-mail, fax, etc.) regarding the solicitation of BEP contractors/ sub-contractors and suppliers. Duplicate as needed. (It is not necessary to show contacts with certified vendors with which the Grantee reached an agreement to participate on this project, as shown on Section I of this Plan.)

Name of Certified Vendor Firm	Date and Method of Contact	Scope of Work Solicited	Reason Agreement was not Reached

_____ _____
Grantee Authorized Signature Date

APPENDIX G

GEOTECHNICAL REPORT

MSET

www.msetinc.com

MIDLAND STANDARD ENGINEERING & TESTING, INC.
410 Nolen Drive, South Elgin, Illinois 60177
(847) 844-1895 f(847) 844-3875

December 4, 2019

Mr. Sean G. Murphy, P.E.
HR Green, Inc.
420 N. Front Street, Suite 100
McHenry, Illinois 60050

Re: Soil Exploration and Analysis
Huntington Boulevard Watermain
Hoffman Estates, Illinois
MSET File No. 19652

Dear Mr. Murphy:

Midland Standard Engineering & Testing, Inc. has completed the field exploration and analysis for the above referenced project.

INTRODUCTION

Purpose and Scope

The purpose of this exploration and analysis was to determine the various components of the soil, the engineering characteristics of the subgrade materials, and to provide criteria for use by the design engineers.

The scope of this exploration included a geological reconnaissance of the site, a review of available soil information, subsurface exploration, soil testing, and an engineering analysis and evaluation of the materials encountered.

General

The exploration and analysis of the foundation and subsurface conditions reported herein are considered in sufficient detail and scope to a form a reasonable basis for design. This report has been prepared for the exclusive use and specific application to the proposed project.

The recommendations submitted are based on the available soil information, standard residential construction, and available site location information. Any revision in the plans for the proposed structures from those enumerated in this report should be brought to the attention of the Soils Engineer to determine if changes in the recommendations are required. Any deviations from the noted subsurface conditions that are encountered during construction should also be brought to the attention of the Soil Engineer.

The Soils Engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been promulgated after being prepared in accordance with generally accepted professional engineering practice in the fields of foundation engineering, soil mechanics, and engineering geology. No other warranties are implied or expressed.

PROJECT LOCATION AND DESCRIPTION

Project Location and Description

The project site is located on Huntington Boulevard between E. Mundhank Road and Lakewood Boulevard in Hoffman Estates, Illinois. Plans include replacing the existing watermain running along the east side of the alignment. Utility work is anticipated to include open cut at a depth of ±8 feet or directional drilling at a depth of 12 to 14 feet.

FIELD EXPLORATION

General

Our exploration program consisted of making six (6) soil borings, labeled B-1 through B-6 to a depth of twenty (20) feet below the ground surface. An MSET field crew staked the boring locations at the site. Ground surface elevations were provided by the site surveyors.

Drilling Equipment

The soil borings were drilled using a truck mounted Geoprobe® 3100GT drill rig equipped with a rotary head. Hollow stem augers were used to advance the boreholes.

Sampling and Standard Penetration Test Procedures – Soil Borings

Representative samples were obtained by the use of split-spoon sampling procedures in accordance with A.S.T.M. Procedure D-1586.

During the split-spoon sampling procedures, a standard penetration test was performed in accordance with current A.S.T.M. D-1586 Procedures. At sampling intervals, advancement of the boring was stopped and all loose material removed from the borehole. The sampler was then lowered into the hole and seated in undisturbed soil by pushing or tapping, taking suitable precautions that the rods were reasonably tight. The sampling spoon was then advanced by driving with an automatic drop hammer. During the sampling procedure, the standard penetration value (N) of the soil was determined. The standard penetration value (N) is defined as the number of blows of a one hundred-forty pound (140 lb) hammer required to advance the spoon sampler one foot (12") into the soil.

The results of the standard penetration tests indicate the relative density and comparative consistency of the soils and thereby provide a basis for estimating the relative strength and compressibility of the soil profile components. The results of standard penetration tests can be found on the boring logs, which are attached.

Strength Tests

A calibrated hand penetrometer was used to aid in determining the strength and consistency of cohesive soil samples (Qp) in the field. Split-spoon samples were subjected to unconfined compressive strength testing (Qu) by the RIMAC Method. Consideration must be given to the manner in which the values of the unconfined compressive strength were obtained. Split-spoon sampling techniques provide a representative, but somewhat disturbed soil sample.

Water Level Measurements

Water level observations were made during and after the boring operations and are noted on the boring logs presented herewith. In relatively pervious soils, such a sandy soils, the indicated elevations are considered reliable groundwater levels. In relatively impervious soils, the accurate determination of the groundwater elevation may not be possible, even after several days of observation. Seasonal variations, temperature and recent rainfall conditions may influence the levels of the groundwater table and volumes of water will depend on the permeability of the soils.

LABORATORY TESTING

Scope

A supplemental laboratory-testing program was conducted to ascertain additional pertinent engineering characteristics of the foundation materials necessary in analyzing the behavior of the proposed construction. The soils laboratory work was performed in accordance with applicable ASTM standards.

The laboratory-testing program included supplementary visual classification, unconfined compressive strength on cohesive samples and moisture contents on all samples. The results of laboratory testing are reported on the boring logs that are attached.

SUBSURFACE CONDITIONS

Soil Profile

The soil profile encountered at the boring locations encountered 2 to 10 inches of dark brown to black Clayey TOPSOIL. Below the upper topsoil layer, FILL materials comprised of brown SAND (SP) to dark brown Lean CLAY (CL) were noted to depths of 1 to 5-1/2 feet. Granular fills were slightly dense with standard penetration values (N) of 5 blows per foot and moisture contents of 7 percent. Clayey fills were stiff in consistency with unconfined compressive strengths (Qu) of 1.01 to 1.75 tons per square foot and moisture contents of 15 to 22 percent.

Below the upper fill soils, buried topsoil and transitional materials comprised of black to dark grey and brown Lean to Fat CLAY (CL-CH) were noted to depths of 3 to 8 feet. The transitional clays were firm to very stiff in consistency with unconfined compressive strengths (Qu) of 0.75 to 2.17 tons per square foot and moisture contents of 24 to 40 percent.

Below the transitional clay layers, natural brown over grey Lean CLAY (CL) was encountered for the remainder of the boring depth. The natural clay profile was very stiff to very hard in consistency with unconfined compressive strengths (Qu) of 2.29 to 8.15 tons per square foot and moisture contents of 14 to 23 percent. Details of the soils encountered at each boring location are presented on the attached Boring Logs.

Groundwater Conditions

Groundwater measurements were made during and immediately after the drilling operations. Groundwater was encountered at the following borings at the depths below:

Boring No.	Groundwater During Drilling	Groundwater After Drilling
B-1	2.5’	Dry
B-2	None	Dry
B-3	12.5’	Dry
B-4	19.8’	17.3’
B-5	None	Dry
B-6	None	Dry

Groundwater encountered during the drilling operations was generally noted in granular seams located within the clay profile and granular fills. At boring B-4, groundwater was noted during drilling in the granular layer at elevation 807.4. After drilling was complete water rose in the borehole to an elevation of 809.9. Details of the groundwater conditions encountered at each boring location are presented on the attached Boring Logs.

DISCUSSION AND RECOMMENDATIONS

Pipe Subgrade Conditions and Recommendations – Open Trench

The watermain pipe and services should be installed and backfilled in accordance with the current Standard Specifications for Water and Sewer Main Construction in Illinois. The watermain should be installed in accordance with the project details to provide proper support for the pipe. A minimum of six (6) inches of bedding stone should be placed under the pipe. Cobbles and boulders greater than three (3) inches in diameter should be removed from the pipe subgrade with their holes filled with bedding stone.

Project documents indicate an invert elevation of approximately 8 feet below existing grade for open trench excavations. Excavations at this depth are anticipated to encounter natural very stiff to very hard clays. Softer clays were encountered along the alignment at depths of 3 to 8 feet. Unsuitable materials encountered at or near the design invert elevation should be removed to the depth encountered and replaced with additional bedding stone.

Trenchless Excavation

Horizontal direction drilling (HDD) methods are an anticipated option for this project. HDD typically includes drilling a pilot hole to a specified point. The hole is then enlarged by pulling back a reaming tool along with the pipe back to the drill rig.

Project documents indicate an invert elevation of 12 to 14 feet below existing grade for HDD construction. Very stiff to very hard natural clay soils encountered at this depth are generally considered suitable for directional drilling methods. To prevent cave in, the borehole should be stabilized with a bentonite-based fluid or casing.

Pipe Corrosion Soil Conditions

Samples of the subgrade soil should be tested to determine the potential for corrosion to ductile iron pipe per the American Water Works Association (AWWA) specification C105-10. Corrosion analysis was not included in the scope of this exploration and analysis.

Based on the anticipated soil conditions at the anticipated pipe depth, the potential for corrosion should be considered. Ductile iron pipe should be protected using a polyethylene wrap, installed in accordance with ANSI/AWWA C105-10 specifications. Design of the watermain should include an investigation for potential stray currents in the area. Cathodic protection to adjacent pipes or utilities in the area can be a source for higher amounts of stray currents. If that is the case, additional protection of the planned ductile iron pipe should be considered.

Utility Trench Backfill

The trenches for all water main pipes should be backfilled in accordance with the requirements of the standard specification. First, the pipes should be bedded in the specified bedding material. Bedding stone should be placed to a minimum of 12 inches above the top of the pipe prior to final backfilling. All trenches within the pavement areas or supporting adjacent pavement or sidewalks should be backfilled and compacted to a minimum 95 % of the maximum dry density as defined by ASTM D-1557.

The use of granular trench backfill, meeting the IDOT gradation requirements of CA-06 should be used to backfill the trenches. Controlled backfilling should be accomplished by placing the backfill materials in lifts not exceeding 9" loose measure and compacting the material with the appropriate equipment. Where imported granular soils are used for backfill, these should be adjusted to the correct moisture content for compaction, then placed in a controlled manner. Jetting, inundation, or flooding is not considered an appropriate or effective method of compaction for granular trench backfill on this site. The specifications should prohibit the use of these methods.

Thrust Blocks

Thrust blocks should be installed to prevent movement at all bends, tees, caps, valves and hydrants. Thrust blocks should be Portland Cement Concrete (PCC) and shall be a minimum of 12 inches thick and in contact with non-disturbed soil.

Surface and Groundwater Control

Excavations along the alignment may encountered perched water in granular fills and granular seams noted within the clay profile. The contractor should be prepared with a system of sumps and pumps when necessary to control water that may enter the excavation during construction.

Excavation and Trench Support

Excavations into the clay profile will only stay vertical for a short period of time. Please note that OSHA and local codes require the use of shoring and bracing in the excavation during construction. The contractor should be well versed in these requirements.

CLEAN CONSTRUCTION DEMOLITION DEBRIS (CCDD)

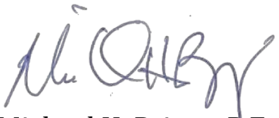
CCDD Certification

Samples taken within the upper ten (10) feet were scanned with a Photo-Ionization Detector (PID) to determine the presence of Volatile Organic Compounds (VOC). Based on these readings, samples were selected for analytical testing to determine the presence of contaminants. Results of this testing is included with the attached IEPA LPC-663 certification.

Closure

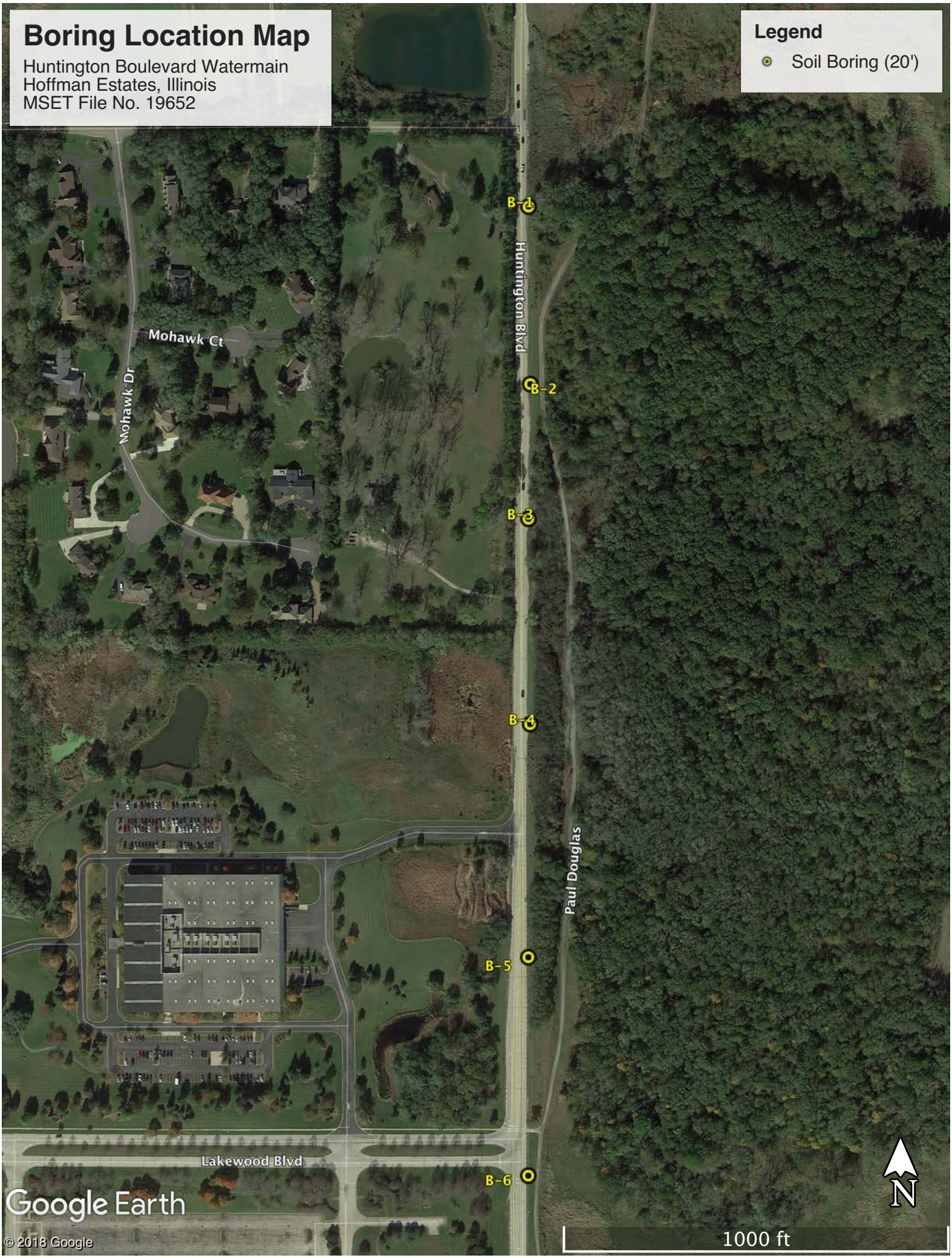
This report is based on the information available at this time. If you have any questions regarding this report, please feel free to call.

Sincerely,
MIDLAND STANDARD ENGINEERING & TESTING, INC.



Michael H. Prigge, P.E.
Project Engineer

Attachments: Boring Location Map
Boring Logs (B-1 through B-6)
Soil Profile Drawings
General Notes
IEPA LPC-663 Documentation


Boring Location Map
Huntington Boulevard Watermain
Hoffman Estates, Illinois
MSET File No. 19652
Legend
Soil Boring (20')
B-1
B-2
B-3
B-4
B-5
B-6
Huntington Blvd
Mohawk Ct
Mohawk Dr
Paul Douglas
Lakewood Blvd
N
1000 ft
Google Earth
© 2018 Google

MSET PROJECT NO.: **19652**	LOG OF BORING NO. B-1	Page 1 of 1
PROJECT: **Huntington Boulevard Watermain**	SITE LOCATION: **Hoffman Estates, Illinois**	
BORING LOCATION: **IL1201 - 1041723E, 1972190N**	CLIENT: **HR Green, Inc.**	

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/ INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
0		TOPSOIL - Black CLAY (10")	819.0							
		FILL - Brown SAND (f-m), SP, slightly dense	818.2	SS	1	5	7			
3		Black Fat CLAY, CH, firm	816.0	SS	2A	0	32		0.75 (Qp)	
		Dark Grey, little Brown Lean to Fat CLAY, CL-CH, very stiff	815.0	SS	2B	6	26		2.0 (Qp)	
6		Brown and Grey Lean CLAY with Sand, CL, very stiff to hard	813.5	SS	3	8	14	120	2.75	
9				SS	4	17	18	108	7.14	
12				SS	5	14	19	108	7.45	
		Grey Lean CLAY, CL, hard to very stiff	806.0	SS	6	18	17		4.5 + (Qp)	
15										
18				SS	7	10	16	113	3.49	
		End of Boring at 20'	799.0							

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: 2.5'
IMMEDIATELY AFTER DRILLING: Moist
DELAYED READING AFTER

MSET

BORING STARTED: 10/18/19
BORING COMPLETED: 10/18/19
LOGGED BY: GPF
BORING METHOD: HSA

MSET PROJECT NO.: **19652**	LOG OF BORING NO. B-2	Page 1 of 1

PROJECT: **Huntington Boulevard Watermain** SITE LOCATION: **Hoffman Estates, Illinois**

BORING LOCATION: **IL1201 - 1041729E, 1971735N** CLIENT: **HR Green, Inc.**

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/ INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
0		TOPSOIL - Black CLAY (4")	830.5							
		FILL - Brown Lean CLAY, CL	830.2							
		Black Fat CLAY, CH, very stiff	829.5	SS	1	7	31		2.0 (Qp)	
3		Brown and Grey Lean CLAY, CL, very stiff to hard	827.5	SS	2	11	18	104	3.69	
6				SS	3	13	19	110	8.15	
9				SS	4	19	18	107	6.71	
		Grey Lean CLAY, CL, hard to very stiff	820.0	SS	5	15	18	106	5.70	
12		cobbles, possible boulder at 13.5'		SS	6	23	19	107	3.45	
15										
18				SS	7	8	20	106	3.76	
		End of Boring at 20'	810.5							

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: None
IMMEDIATELY AFTER DRILLING: Dry
DELAYED READING AFTER

MSET

BORING STARTED: 10/18/19
BORING COMPLETED: 10/18/19
LOGGED BY: GPF
BORING METHOD: HSA

MSET PROJECT NO.: **19652**

LOG OF BORING NO. B-3

PROJECT: **Huntington Boulevard Watermain**

SITE LOCATION: **Hoffman Estates, Illinois**

BORING LOCATION: **IL1201 - 1041724E, 1971390N**

CLIENT: **HR Green, Inc.**

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/ INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
0		TOPSOIL - Dark Brown CLAY (3")	827.5							
		Black, trace Brown Lean to Fat CLAY, trace Organics, CL-CH, stiff	827.3	SS	1	6	27		1.25 (Qp)	
3				SS	2	5	35		1.0 (Qp)	
		Dark Grey, trace Brown Lean to Fat CLAY, CL-CH, moist	823.0							
6		Brown and Grey Lean CLAY, CL, hard	822.0	SS	3	6	20	104	4.54	
		Grey Lean CLAY, CL, hard	820.0							
9				SS	4	8	21	103	4.58	
		Brown and Grey Lean CLAY with Sand, CL, hard	817.0	SS	5	8	18	106	4.58	
12		intermittent sand seam at 12.5'								
		Grey Lean CLAY, CL, hard	814.5							
		possible cobbles at 13.5'		SS	6	14	20		4.5 + (Qp)	
15										
18				SS	7	10	20		4.0 (Qp)	
		End of Boring at 20'	807.5							

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: 12.5'
IMMEDIATELY AFTER DRILLING: Dry
DELAYED READING AFTER

MSET

BORING STARTED: 10/18/19
BORING COMPLETED: 10/18/19
LOGGED BY: GPF
BORING METHOD: HSA

MSET PROJECT NO.: **19652**	LOG OF BORING NO. B-4	Page 1 of 1

PROJECT: **Huntington Boulevard Watermain**

SITE LOCATION: **Hoffman Estates, Illinois**

BORING LOCATION: **IL1201 - 1041732E, 1970858N**

CLIENT: **HR Green, Inc.**

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/ INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
0		TOPSOIL - Dark Brown CLAY (2")	827.2							
		FILL - Dark Brown Lean CLAY, CL	827.0							
		Black Fat CLAY, CH, stiff	826.2	SS	1A	3	40	71	1.59	
				SS	1B	8	24		1.75 (Qp)	
		Dark Grey Lean to Fat CLAY with Sand, CL-CH, stiff	825.2							
3		Brown and Grey Lean CLAY, CL, hard to very stiff	824.2							
				SS	2	5	18	107	4.00	
6				SS	3	6	19	111	2.91	
		Grey Lean CLAY, CL, very stiff	819.2							
9		intermittent sand seam at 9.0'		SS	4	7	15	115	2.56	
				SS	5	5	17	112	2.29	
12										
				SS	6	4	19	104	2.33	
15										
18				SS	7	10	23	101	2.41	
		Grey SAND (f-m), SP, wet	807.4							
		End of Boring at 20'	807.2							

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: 19.8'
IMMEDIATELY AFTER DRILLING: 17.3'
DELAYED READING AFTER

MSET

BORING STARTED: 10/18/19
BORING COMPLETED: 10/18/19
LOGGED BY: GPF
BORING METHOD: HSA

MSET PROJECT NO.: **19652**	LOG OF BORING NO. B-5	Page 1 of 1

PROJECT: **Huntington Boulevard Watermain** SITE LOCATION: **Hoffman Estates, Illinois**

BORING LOCATION: **IL1201 - 1041729E, 1970260N** CLIENT: **HR Green, Inc.**

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/ INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
0		TOPSOIL - Black CLAY (4")	836.5							
		FILL - Brown Crushed GRAVEL, GW	836.2							
		Brown and Grey Lean CLAY, CL, hard	835.5	SS	1	10	20	102	5.43	
3				SS	2	11	20	103	5.39	
6				SS	3	12	21	103	6.21	
9		Grey Lean CLAY, CL, hard to very stiff	827.5	SS	4	14	16	108	5.78	
				SS	5	7	15	115	3.41	
12				SS	6	10	18	107	3.76	
15										
18				SS	7	6	19	106	2.75	
		End of Boring at 20'	816.5							

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: None
IMMEDIATELY AFTER DRILLING: Dry
DELAYED READING AFTER

MSET

BORING STARTED: 10/18/19
BORING COMPLETED: 10/18/19
LOGGED BY: GPF
BORING METHOD: HSA

MSET PROJECT NO.: **19652**	LOG OF BORING NO. B-6	Page 1 of 1
PROJECT: **Huntington Boulevard Watermain**	SITE LOCATION: **Hoffman Estates, Illinois**	
BORING LOCATION: **IL1201 - 1041728E, 1969695N**	CLIENT: **HR Green, Inc.**	

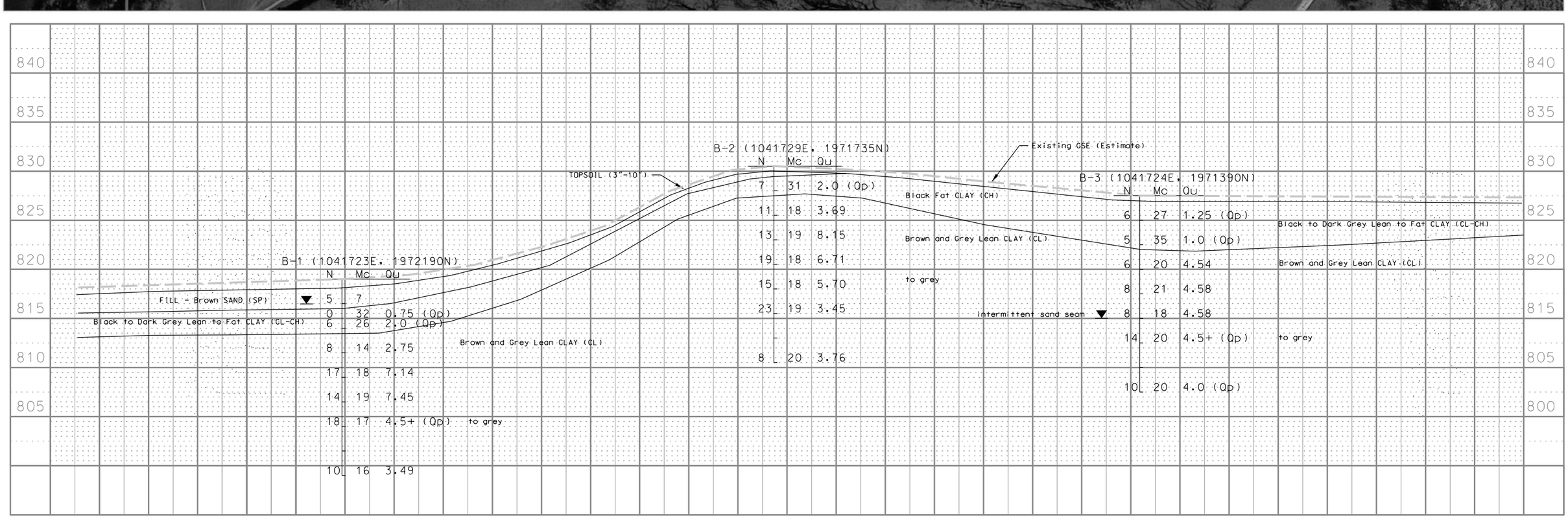
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/ INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
0		TOPSOIL - Black CLAY (4")	834.4							
		FILL - Brown Crushed GRAVEL, GW	834.1							
		FILL - Brown and Grey to Dark Grey Lean CLAY with Sand, CL, stiff	833.4	SS	1	7	22		1.75 (Qp)	
3		moist		SS	2	4	15	107	1.01	
		Black Fat CLAY, CH, firm	828.9							
6				SS	3A	2	27		0.75 (Qp)	
		Olive-Grey and Black Lean to Fat CLAY, CL-CH, very stiff	827.9	SS	3B	6	28	87	2.17	
		Brown and Grey Lean CLAY, CL, hard to very hard	826.4							
9				SS	4	10	19	106	5.74	
				SS	5	12	19	103	6.09	
12										
				SS	6	18	20	106	8.77	
15										
		Grey Lean CLAY, CL, very stiff	817.9							
18										
				SS	7	8	18	106	3.49	
		End of Boring at 20'	814.4							

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: None
IMMEDIATELY AFTER DRILLING: Dry
DELAYED READING AFTER

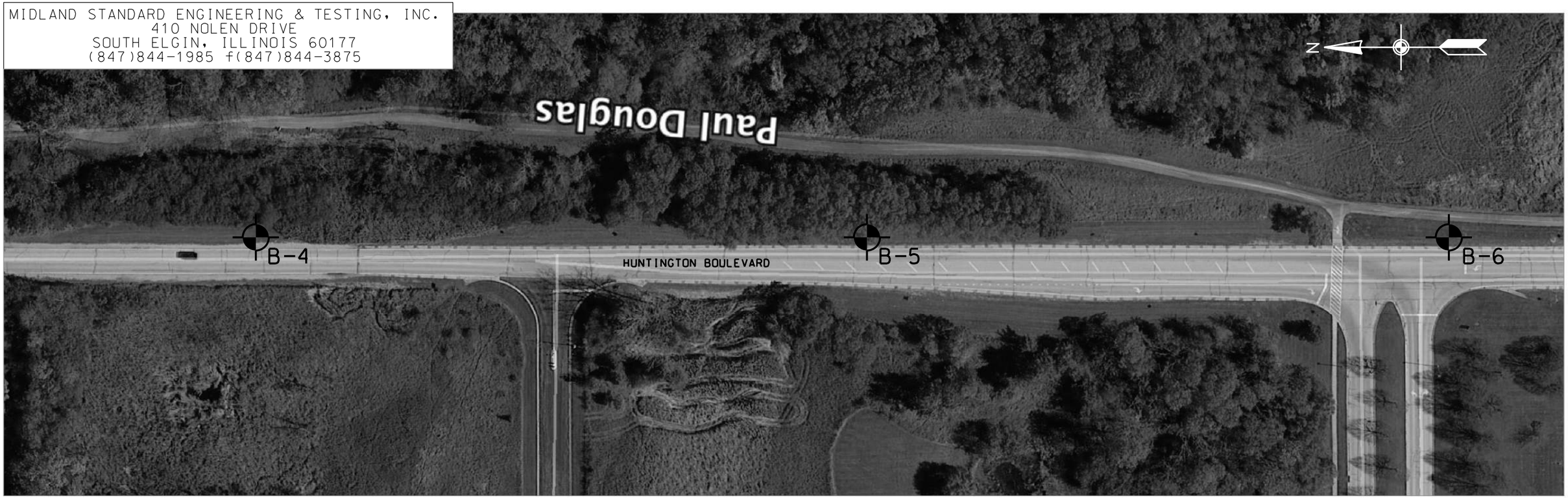
MSET

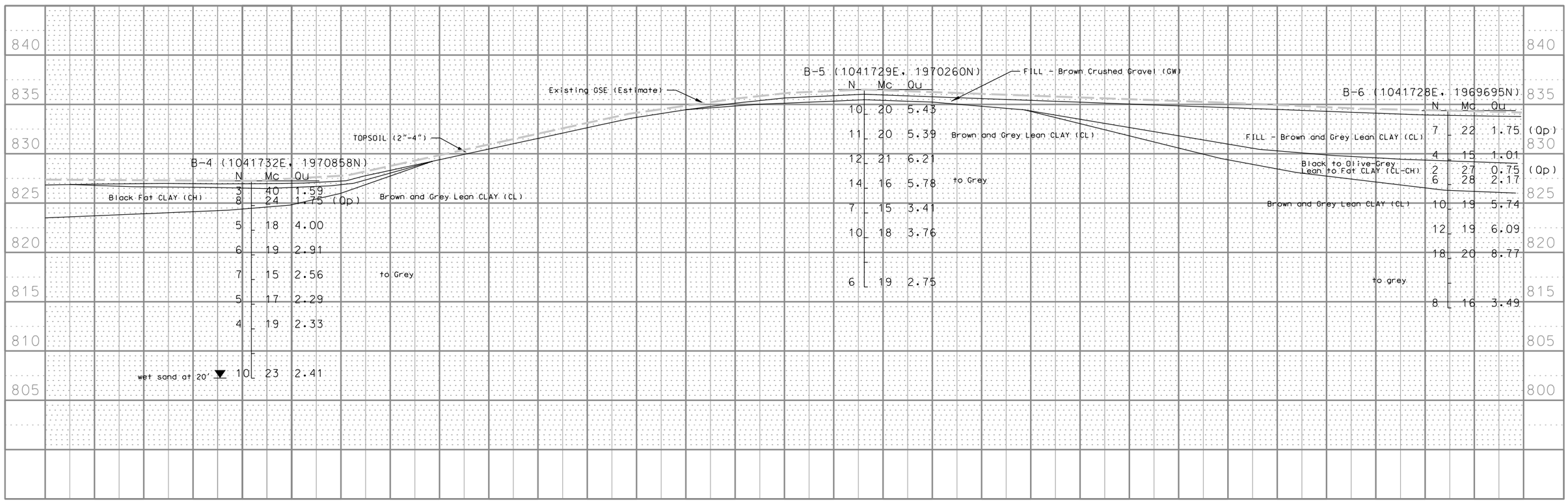
BORING STARTED: 10/18/19
BORING COMPLETED: 10/18/19
LOGGED BY: GPF
BORING METHOD: HSA

MIDLAND STANDARD ENGINEERING & TESTING, INC.
410 NOLEN DRIVE
SOUTH ELGIN, ILLINOIS 60177
(847)844-1985 f(847)844-3875



MIDLAND STANDARD ENGINEERING & TESTING, INC.
410 NOLEN DRIVE
SOUTH ELGIN, ILLINOIS 60177
(847)844-1985 f(847)844-3875





B-4 (1041732E, 1970858N)

N	Mc	Qu	
3	40	1.59	
8	24	1.75	(Qp)
5	18	4.00	
6	19	2.91	
7	15	2.56	
5	17	2.29	
4	19	2.33	
10	23	2.41	

B-5 (1041729E, 1970260N)

N	Mc	Qu	
10	20	5.43	
11	20	5.39	
12	21	6.21	
14	16	5.78	
7	15	3.41	
10	18	3.76	
6	19	2.75	

B-6 (1041728E, 1969695N)

N	Mc	Qu	
7	22	1.75	(Qp)
4	15	1.01	
2	27	0.75	(Qp)
6	28	2.17	
10	19	5.74	
12	19	6.09	
18	20	8.77	
8	16	3.49	

GENERAL NOTES

PARTICLE SIZE DESCRIPTION & TERMINOLOGY

Coarse Grained or Granular Soils have more than 50% of their dry weight retained on a #200 sieve; they are described as: boulders, cobbles, gravel or sand. Fine Grained soils have less than 50% of their dry weight retained on a #200 sieve; they are described as: clays or clayey silts if they are cohesive and silts if they are non-cohesive. In addition to gradation, granular soils are defined on the basis of their relative in-place density and the fine grained soils on the basis of their strength or consistency and their plasticity.

Major Component of Sample	Size Range
Boulders	
Cobbles	8 inches to 3 inches (200 mm to 75mm)
Gravel	3 inches to #4 sieve (75mm to 4.75mm)
Sand	#4 to #200 sieve (4.75mm to 0.075mm)
Silt	Passing #200 sieve (0.075mm to 0.002mm)
Clay	Smaller than 0.002mm

Descriptive Term of Components Also Present in Sample	Approximate Quantity (Percent)
Trace	1 - 9
Little	10 - 19
Some	20 - 34
And	35 - 50

RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION

GRANULAR SOILS

DENSITY CLASSIFICATION	APPROXIMATE RANGE OF N *
Very Loose	0 - 3
Slightly Dense	4 - 9
Medium Dense	10 - 29
Dense	30 - 49
Very Dense	50 - 80
Extremely Dense	80 +

COHESIVE SOILS

CONSISTENCY	UNCONFINED COMPRESSIVE STRENGTH, Qu - TSF	APPROXIMATE RANGE OF N *
Very Soft	0.25	0 - 2
Soft	0.25 - 0.49	3 - 4
Firm	0.50 - 0.99	5 - 8
Stiff	1.00 - 1.99	9 - 15
Very Stiff	2.00 - 3.99	16 - 30
Hard	4.00 - 8.00	31 - 50
Very Hard	8.00 +	Over 50

* STANDARD PENETRATION TEST (ASTM D1586) - A 2.0" outside-diameter, split barrel sampler is driven into undisturbed soil by means of a 140 pound weight falling freely through a vertical distance of 30 inches. The sampler is normally driven 3 successive 6 inch increments. The total number of blows required for the final 12 inches of penetration is the Standard Penetration Resistance (N).

APPENDIX H

LPC-663 AND ANALYTICAL REPORTS

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: Huntington Boulevard Watermain Improvements Office Phone Number, if available: N/A

Physical Site Location (address, incldluding number and street):

Huntington Boulevard between Lakewood Boulevard and Mundhank Road

City: Hoffman Estates State: IL Zip Code: 60192

County: Cook Township: Palatine

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.07459 (Decimal Degrees) Longitude: -88.11991 (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☒ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: BOW: BOA:

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Hoffman Estates Public Works	Name:	
Street Address:	2305 Pembroke Avenue	Street Address:	
PO Box:		PO Box:	
City:	Hoffman Estates State: IL	City:	State:
Zip Code:	60169 Phone: 847-490-6800	Zip Code:	Phone:
Contact:		Contact:	
Email, if available:		Email, if available:	

Project Name: Huntington Boulevard Watermain Improvements

Latitude: 42.07459 Longitude: -88.11991

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

Soil borings were made along the alignment in the area of planned excavation. Samples were screened in the field and discrete samples were selected for analytical testing.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

See First Environmental Laboratories Report dated 10/28/2019.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Michael H. Prigge (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Midland Standard Engineering & Testing, Inc.

Street Address: 410 Nolen Drive

City: South Elgin State: IL Zip Code: 60177

Phone: 847 844-1895

Michael H. Prigge
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/27/2019
Date:

MICHAEL H. PRIGGE
062-066611
LICENSED
PROFESSIONAL
ENGINEER
STATE OF ILLINOIS

P.E. or L.P.G. Seal:

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

October 28, 2019

Mr. Michael Prigge
MIDLAND STANDARD ENG. & TESTING, INC.
410 Nolen Drive
South Elgin, IL 60177

Project ID: 19652 - Huntington Blvd, Watermain
First Environmental File ID: 19-6429
Date Received: October 21, 2019

Dear Mr. Michael Prigge:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 1002922019-1: effective 08/22/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zaworski
Project Manager

First
Environmental
Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Case Narrative

MIDLAND STANDARD ENG. & TESTING, INC. Lab File ID: **19-6429**

Project ID: **19652 - Huntington Blvd, Watermain** Date Received: **October 21, 2019**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected	
19-6429-001	B-5, SS-3	10/18/19	13:00
19-6429-002	B-2, SS-1	10/18/19	11:00
19-6429-003	B-2, SS-2	10/18/19	9:30

Sample Batch Comments:

Sample acceptance criteria were met.

First
Environmental
Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Case Narrative

MIDLAND STANDARD ENG. & TESTING, INC. Lab File ID: **19-6429**

Project ID: **19652 - Huntington Blvd, Watermain** Date Received: **October 21, 2019**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: MIDLAND STANDARD ENG. & TESTING, INC.
Project ID: 19652 - Huntington Blvd, Watermain
Sample ID: B-5, SS-3
Sample No: 19-6429-001

Date Collected: 10/18/19
Time Collected: 13:00
Date Received: 10/21/19
Date Reported: 10/28/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540B**				
Analysis Date: 10/21/19				
Total Solids	83.27		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 10/23/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	

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Analytical Report

Client: MIDLAND STANDARD ENG. & TESTING, INC.
Project ID: 19652 - Huntington Blvd, Watermain
Sample ID: B-5, SS-3
Sample No: 19-6429-001

Date Collected: 10/18/19
Time Collected: 13:00
Date Received: 10/21/19
Date Reported: 10/28/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B** Analysis Date: 10/23/19				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C** **Preparation Method 3540C** Analysis Date: 10/23/19 Preparation Date: 10/22/19				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: MIDLAND STANDARD ENG. & TESTING, INC.
Project ID: 19652 - Huntington Blvd, Watermain
Sample ID: B-5, SS-3
Sample No: 19-6429-001

Date Collected: 10/18/19
Time Collected: 13:00
Date Received: 10/21/19
Date Reported: 10/28/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 10/23/19		**Preparation Method 3540C** Preparation Date: 10/22/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	

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Analytical Report

Client: MIDLAND STANDARD ENG. & TESTING, INC.
Project ID: 19652 - Huntington Blvd, Watermain
Sample ID: B-5, SS-3
Sample No: 19-6429-001

Date Collected: 10/18/19
Time Collected: 13:00
Date Received: 10/21/19
Date Reported: 10/28/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** **Preparation Method 3540C** Analysis Date: 10/23/19 Preparation Date: 10/22/19				
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Pesticides/PCBs **Method: 8081A/8082** **Preparation Method 3546** Analysis Date: 10/24/19 Preparation Date: 10/23/19				
Aldrin	< 8.0	8.0	ug/kg	
Aroclor 1016	< 80.0	80.0	ug/kg	
Aroclor 1221	< 80.0	80.0	ug/kg	
Aroclor 1232	< 80.0	80.0	ug/kg	
Aroclor 1242	< 80.0	80.0	ug/kg	
Aroclor 1248	< 80.0	80.0	ug/kg	
Aroclor 1254	< 160	160	ug/kg	
Aroclor 1260	< 160	160	ug/kg	
alpha-BHC	< 2.0	2.0	ug/kg	
beta-BHC	< 8.0	8.0	ug/kg	
delta-BHC	< 8.0	8.0	ug/kg	
gamma-BHC (Lindane)	< 8.0	8.0	ug/kg	
alpha-Chlordane	< 80.0	80.0	ug/kg	
gamma-Chlordane	< 80.0	80.0	ug/kg	
4,4'-DDD	< 16.0	16.0	ug/kg	
4,4'-DDE	< 16.0	16.0	ug/kg	
4,4'-DDT	< 16.0	16.0	ug/kg	
Dieldrin	< 16.0	16.0	ug/kg	
Endosulfan I	< 8.0	8.0	ug/kg	
Endosulfan II	< 16.0	16.0	ug/kg	
Endosulfan sulfate	< 16.0	16.0	ug/kg	
Endrin	< 16.0	16.0	ug/kg	
Endrin aldehyde	< 16.0	16.0	ug/kg	
Endrin ketone	< 16.0	16.0	ug/kg	
Heptachlor	< 8.0	8.0	ug/kg	
Heptachlor epoxide	< 8.0	8.0	ug/kg	
Methoxychlor	< 80.0	80.0	ug/kg	
Toxaphene	< 160	160	ug/kg	
Total Metals **Method: 6010C** **Preparation Method 3050B** Analysis Date: 10/22/19 Preparation Date: 10/22/19				
Arsenic	4.9	1.0	mg/kg	

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Analytical Report

Client: MIDLAND STANDARD ENG. & TESTING, INC.
Project ID: 19652 - Huntington Blvd, Watermain
Sample ID: B-5, SS-3
Sample No: 19-6429-001

Date Collected: 10/18/19
Time Collected: 13:00
Date Received: 10/21/19
Date Reported: 10/28/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 10/22/19		Preparation Date: 10/22/19		
Barium	33.1	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	18.4	0.5	mg/kg	
Lead	12.8	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 10/22/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 **Method: 9045D 2004**				
Analysis Date: 10/22/19 11:00				
pH @ 25°C, 1:2	8.18		Units	

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Analytical Report

Client: MIDLAND STANDARD ENG. & TESTING, INC.
Project ID: 19652 - Huntington Blvd, Watermain
Sample ID: B-2, SS-1
Sample No: 19-6429-002

Date Collected: 10/18/19
Time Collected: 11:00
Date Received: 10/21/19
Date Reported: 10/28/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540B**				
Analysis Date: 10/21/19				
Total Solids	84.79		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 10/23/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	

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Analytical Report

Client: MIDLAND STANDARD ENG. & TESTING, INC.
Project ID: 19652 - Huntington Blvd, Watermain
Sample ID: B-2, SS-1
Sample No: 19-6429-002

Date Collected: 10/18/19
Time Collected: 11:00
Date Received: 10/21/19
Date Reported: 10/28/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B** Analysis Date: 10/23/19				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C** **Preparation Method 3540C** Analysis Date: 10/23/19 Preparation Date: 10/22/19				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: MIDLAND STANDARD ENG. & TESTING, INC.
Project ID: 19652 - Huntington Blvd, Watermain
Sample ID: B-2, SS-1
Sample No: 19-6429-002

Date Collected: 10/18/19
Time Collected: 11:00
Date Received: 10/21/19
Date Reported: 10/28/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 10/23/19		**Preparation Method 3540C** Preparation Date: 10/22/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	

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Analytical Report

Client: MIDLAND STANDARD ENG. & TESTING, INC.
Project ID: 19652 - Huntington Blvd, Watermain
Sample ID: B-2, SS-1
Sample No: 19-6429-002

Date Collected: 10/18/19
Time Collected: 11:00
Date Received: 10/21/19
Date Reported: 10/28/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 10/23/19		Preparation Date: 10/22/19		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Pesticides/PCBs **Method: 8081A/8082**		**Preparation Method 3546**		
Analysis Date: 10/24/19		Preparation Date: 10/23/19		
Aldrin	< 8.0	8.0	ug/kg	
Aroclor 1016	< 80.0	80.0	ug/kg	
Aroclor 1221	< 80.0	80.0	ug/kg	
Aroclor 1232	< 80.0	80.0	ug/kg	
Aroclor 1242	< 80.0	80.0	ug/kg	
Aroclor 1248	< 80.0	80.0	ug/kg	
Aroclor 1254	< 160	160	ug/kg	
Aroclor 1260	< 160	160	ug/kg	
alpha-BHC	< 2.0	2.0	ug/kg	
beta-BHC	< 8.0	8.0	ug/kg	
delta-BHC	< 8.0	8.0	ug/kg	
gamma-BHC (Lindane)	< 8.0	8.0	ug/kg	
alpha-Chlordane	< 80.0	80.0	ug/kg	
gamma-Chlordane	< 80.0	80.0	ug/kg	
4,4'-DDD	< 16.0	16.0	ug/kg	
4,4'-DDE	< 16.0	16.0	ug/kg	
4,4'-DDT	< 16.0	16.0	ug/kg	
Dieldrin	< 16.0	16.0	ug/kg	
Endosulfan I	< 8.0	8.0	ug/kg	
Endosulfan II	< 16.0	16.0	ug/kg	
Endosulfan sulfate	< 16.0	16.0	ug/kg	
Endrin	< 16.0	16.0	ug/kg	
Endrin aldehyde	< 16.0	16.0	ug/kg	
Endrin ketone	< 16.0	16.0	ug/kg	
Heptachlor	< 8.0	8.0	ug/kg	
Heptachlor epoxide	< 8.0	8.0	ug/kg	
Methoxychlor	< 80.0	80.0	ug/kg	
Toxaphene	< 160	160	ug/kg	
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 10/22/19		Preparation Date: 10/22/19		
Arsenic	3.4	1.0	mg/kg	

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Analytical Report

Client: MIDLAND STANDARD ENG. & TESTING, INC.
Project ID: 19652 - Huntington Blvd, Watermain
Sample ID: B-2, SS-1
Sample No: 19-6429-002

Date Collected: 10/18/19
Time Collected: 11:00
Date Received: 10/21/19
Date Reported: 10/28/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 10/22/19		Preparation Date: 10/22/19		
Barium	62.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	20.1	0.5	mg/kg	
Lead	10.4	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 10/22/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 **Method: 9045D 2004**				
Analysis Date: 10/22/19 11:00				
pH @ 25°C, 1:2	8.35		Units	

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Analytical Report

Client: MIDLAND STANDARD ENG. & TESTING, INC.
Project ID: 19652 - Huntington Blvd, Watermain
Sample ID: B-2, SS-2
Sample No: 19-6429-003

Date Collected: 10/18/19
Time Collected: 9:30
Date Received: 10/21/19
Date Reported: 10/28/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540B**				
Analysis Date: 10/21/19				
Total Solids	77.87		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 10/23/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	

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Project ID: 19652 - Huntington Blvd, Watermain
Sample ID: B-2, SS-2
Sample No: 19-6429-003

Date Collected: 10/18/19
Time Collected: 9:30
Date Received: 10/21/19
Date Reported: 10/28/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B** Analysis Date: 10/23/19				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C** **Preparation Method 3540C** Analysis Date: 10/23/19 Preparation Date: 10/22/19				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	

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Analytical Report

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Project ID: 19652 - Huntington Blvd, Watermain
Sample ID: B-2, SS-2
Sample No: 19-6429-003

Date Collected: 10/18/19
Time Collected: 9:30
Date Received: 10/21/19
Date Reported: 10/28/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 10/23/19		**Preparation Method 3540C** Preparation Date: 10/22/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	

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Date Collected: 10/18/19
Time Collected: 9:30
Date Received: 10/21/19
Date Reported: 10/28/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 10/23/19		Preparation Date: 10/22/19		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Pesticides/PCBs **Method: 8081A/8082**		**Preparation Method 3546**		
Analysis Date: 10/24/19		Preparation Date: 10/23/19		
Aldrin	< 8.0	8.0	ug/kg	
Aroclor 1016	< 80.0	80.0	ug/kg	
Aroclor 1221	< 80.0	80.0	ug/kg	
Aroclor 1232	< 80.0	80.0	ug/kg	
Aroclor 1242	< 80.0	80.0	ug/kg	
Aroclor 1248	< 80.0	80.0	ug/kg	
Aroclor 1254	< 160	160	ug/kg	
Aroclor 1260	< 160	160	ug/kg	
alpha-BHC	< 2.0	2.0	ug/kg	
beta-BHC	< 8.0	8.0	ug/kg	
delta-BHC	< 8.0	8.0	ug/kg	
gamma-BHC (Lindane)	< 8.0	8.0	ug/kg	
alpha-Chlordane	< 80.0	80.0	ug/kg	
gamma-Chlordane	< 80.0	80.0	ug/kg	
4,4'-DDD	< 16.0	16.0	ug/kg	
4,4'-DDE	< 16.0	16.0	ug/kg	
4,4'-DDT	< 16.0	16.0	ug/kg	
Dieldrin	< 16.0	16.0	ug/kg	
Endosulfan I	< 8.0	8.0	ug/kg	
Endosulfan II	< 16.0	16.0	ug/kg	
Endosulfan sulfate	< 16.0	16.0	ug/kg	
Endrin	< 16.0	16.0	ug/kg	
Endrin aldehyde	< 16.0	16.0	ug/kg	
Endrin ketone	< 16.0	16.0	ug/kg	
Heptachlor	< 8.0	8.0	ug/kg	
Heptachlor epoxide	< 8.0	8.0	ug/kg	
Methoxychlor	< 80.0	80.0	ug/kg	
Toxaphene	< 160	160	ug/kg	
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 10/22/19		Preparation Date: 10/22/19		
Arsenic	6.1	1.0	mg/kg	

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Client: MIDLAND STANDARD ENG. & TESTING, INC.
Project ID: 19652 - Huntington Blvd, Watermain
Sample ID: B-2, SS-2
Sample No: 19-6429-003

Date Collected: 10/18/19
Time Collected: 9:30
Date Received: 10/21/19
Date Reported: 10/28/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 10/22/19		Preparation Date: 10/22/19		
Barium	75.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	19.2	0.5	mg/kg	
Lead	21.9	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 10/22/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 **Method: 9045D 2004**				
Analysis Date: 10/22/19 11:00				
pH @ 25°C, 1:2	7.53		Units	

Print Form

Page of Pgs

CHAIN OF CUSTODY RECORD

First Environmental Laboratories, Inc.

1600 Shore Road, Suite D
Naperville, IL 60563
Phone: (630)778-1200 * Fax (630)778-1233
E-Mail: info@firstenv.com
IEPA Accreditation #100292

Company Name: Midland Standard Engineering & Testing, Inc.			
Street Address: 410 Nolen Drive			
City: South Elgin	State: IL	Zip: 60117	
Phone: 847-844-1895	Fax: 847-844-3875	e-Mail: office@msetinc.com	
Send Report To: Michael Prigge	Via Fax: ☐	Via e-Mail: ☒	
Sampled By: Greg Ford.			

Project I.D.: Huntington Blvd. Watermain
P.O. #: 19652

Enter analyses required on the lines to the left. Place an "X" in the box below to indicate which samples require what analysis.

Date/Time Taken	Sample Description	Matrix	VOC	SVOC	Pesticides/PCBs	RCRA Metals	pH				Comments	Lab I.D.
10/18/19, 1:00PM	B-5, SS-3: Brown CLAY	SOIL	X	X	X	X	X				19.6429	001
10/18/19, 11:00AM	B-3, SS-1: Black CLAY	SOIL	X	X	X	X	X					002
10/18/19, 9:30A	B-2, SS-2: Br+Gry CLAY	SOIL	X	X	X	X	X					003

FOR LAB USE ONLY:
Cooler Temperature:0.1-6°C Yes X No 2.4 °C
Received within 6 hrs of collection: X
Ice Present: Yes X No
Sample Refrigerated: Yes___ No___
Refrigerator Temperature:_____°C
Containers Received Preserved: Yes___ No___
5035 Vials Frozen: Yes___ No___
Freezer Temperature:_____°C

Notes and Special Instructions:

Relinquished By:	Date/Time: 10-21-19	Received By:	Date/Time: 10/21/19 1030
Relinquished By:	Date/Time: 1030	Received By:	Date/Time:

Rev 1/07

APPENDIX I

WETLANDS REPORT

Wetland Delineation Report

Huntington Boulevard – Water Main Replacement

Hoffman Estates Village
Cook County, Illinois

June 2024

Prepared For:

Hoffman Estate Village

Prepared by:

HR Green, Inc.,

Aurora, Illinois

HR Green Project No: 190796

HRGreen

Table of Contents

Tables

Exhibits

1.0 Introduction

The study area is along Huntington Boulevard (previously named South Freeman Road) in Cook County Illinois. (T42N, R10E Section 31 and T42N, R9E, and Section 36) between Mundhank Road to the north and approximately 0.16 miles south of Lakewood Boulevard to the south. The study area has a central coordinate of 42.0767739, -88.121579, see Figure 1 for the project location map.

The 13.61-acre study area extends approximately 1.3 miles along Huntington Blvd. The width of the study area is approximately 50 and 125 feet east of the centerline of Huntington Blvd. The entire east side of the study area outside of right-of-way is within the Paul Douglas Forest Preserve. The project will replace aging 16" watermain infrastructure. See Figure 2 for the study area map.

The following sections describe the background data collected and reviewed, delineation methods, and results of the wetland delineation.

2.0 Regulatory Setting and Anticipated Permitting

2.1 Hoffman Estates Village and Cook County

The study area is mostly within Hoffman Estates Village and part of South Barrington Village in Cook County. The Metropolitan Water Reclamation District (MWRD) regulates wetlands, wetland buffer areas, and riparian areas in Cook County. The Watershed Management Ordinance (WMO) regulates isolated (not jurisdictional) wetlands and wetland buffers, and riparian areas regardless of jurisdiction. The MWRD WMO uses the *Corps of Engineers Wetland Delineation Manual* and associated supplemental guidance to define waters of the U.S.

2.2 Waters of the United States

The U.S. Army Corps of Engineers (USACE) Chicago District Regulatory Branch evaluates permits for projects impacting waters of the United States (WOUS) in Cook County. As of August 29, 2023, WOUS definitions are consistent with the Amended Revised Waters of the United States rule post Sackett U.S. Supreme Court Decision. This definition includes:

- All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce;
- All interstate waters but not interstate wetlands; and
- All other waters such as intrastate lakes, rivers, relatively permanent streams and adjacent wetlands with a continuous surface connection to these waters.

Additional guidance on the amended WOUS rule is anticipated from the US Environmental Protection Agency (USEPA) and USACE. Artificial lakes and ponds and ditches excavated in upland and draining upland and that do not carry relatively permanent water are excluded from WOUS.

2.3 Interagency Wetland Policy Act of 1989

The Interagency Wetland Policy Act of 1989 (IWPA) applies to isolated wetland areas in Illinois that are impacted by projects funded with State and State pass-through funded construction activities. The proposed water main project is locally funded with no State or State pass-through funding and therefore does not apply to this project.

2.4 Anticipated Jurisdiction and Permitting Needs

A jurisdictional determination (JD) coordinated with the USACE can be used to determine if on-site wetlands and waterways are under the jurisdiction of the USACE or the MWRD. However, an April 22, 2024 email from the Chicago District Regulatory Branch advises submission of permit applications even if projects are in early planning stages. Jurisdictional wetlands and waterways will be permitted through the USACE Section 404 joint application submittal. Isolated wetlands and waterways not under the USACE jurisdiction and all riparian areas are regulated by the MWRD Watershed Management Ordinance (WMO).

Based on the field delineation and initial observations, it is anticipated that jurisdictional wetlands and waterways are within the project corridor with continuous surface water connections to North Branch Chicago River. The proposed design will likely impact these features and require permitting through the USACE. Jurisdictional wetland impacts are expected to be less than 0.5 acres making a Nationwide Permit (NWP) potentially applicable. If impacts are greater than 0.1 acres, wetland mitigation will be required via wetland banking. Stream impacts greater than 0.03 acres will similarly require mitigation per NWP general conditions.

Additional features are present in the corridor including ditches developed in upland areas and stormwater features. Permitting through the MWRD WMO will be required for impacted areas defined as isolated wetlands, wetland buffers, or impacted riparian areas regardless of federal jurisdiction.

3.0 Background Data Collection and Review

A desktop review of the study area was reviewed using the following resources:

3.1 USGS Quadrangle Map

Huntington Boulevard (previously named South Freeman Road) is a north-south oriented road within Hoffman Estates Village with minor portions in South Barington in the northwest portions of the study

area. The U.S. Geologic Survey 7.5" Quadrangle topographic map was reviewed (See Figure 1). Generally, the study area is between 810 and 850 feet above mean sea level. The eastern portion of the study area is adjacent to a large warehouse business district while the west of the study area is within the Paul Douglas Forest Preserve. No wetlands are apparent in the study area in the quadrangle, but wetlands are apparent immediately north of the study area to the east of the study area. Additionally, a closed depression is apparent in the study area east of Huntington Blvd and south of Lakewood Blvd.

3.2 National Wetlands Inventory (NWI) and National Hydrography Dataset (NHD)

The U.S. Fish and Wildlife Service NWI GIS dataset for Illinois was reviewed (See Figure 2). There are four NWI polygons intersecting with the study area. Three wetlands are identified as PEM1C isolated wetlands that do not connect to any streams or other surface water features. The last is identified as PEM1Cd which is in the northeast corner of the study area. There are two NHD identified polygons located east of the Huntington Blvd identified as "swamp/marsh." The NHD polygons are fully separate and do no intersect the NWI polygons.

3.3 Cook County NRCS Soils

A United States Department of Agriculture (USDA) National Resources Conservation Service (NRCS) web soil survey was reviewed for the project study area. There are seven soil units identified in the study area, of which three are hydric. These hydric three soil units constitute 45.2% of the study area. See Table 1 and Figure 2 for additional soil information.

3.4 FEMA National Flood Hazard Layer

The Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) online map was reviewed. There are no identified 100-year, 500-year, or regulatory floodways within the study area. See Exhibit 1.

TABLE 1: NRCS SOILS IN STUDY AREA

Map Unit Symbol	Map Unit Name	Percent of Study Area	Hydric?
232A	Ashkum silty clay loam, 0-2% slopes	12.6	Yes
330A	Peotone silty clay loam, 0-2% slopes	13.7	Yes
530D2	Ozaukee silt loam, 6-12% slopes, eroded	0.6	No
530D3	Ozaukee silty clay loaom, 6-12% slopes, severely eroded	27.1	No
531B	Markham silt loam, 2-4% slopes	8.6	No
531C2	Markham silt loam, 4-6% slopes, eroded	15	No
903A	Muskego and Houghton mucks, 0-2% slopes	18.9	Yes

Source: USDA Web Soil Survey, NRCS SSURGO GIS Dataset Cook County, IL

Exhibit 1 – FEMA National Flood Hazard Layer

3.5 Hydrologic Atlas

The USGS Hydrolgic Atlas showing floods in the Palatine Quadrangle identifes flooded areas in 1954, 1957, and 1961. There are two areas which were flooded during those times of which are located in the forest preserve to the east of Huntington Blvd. See Exhibit 2.

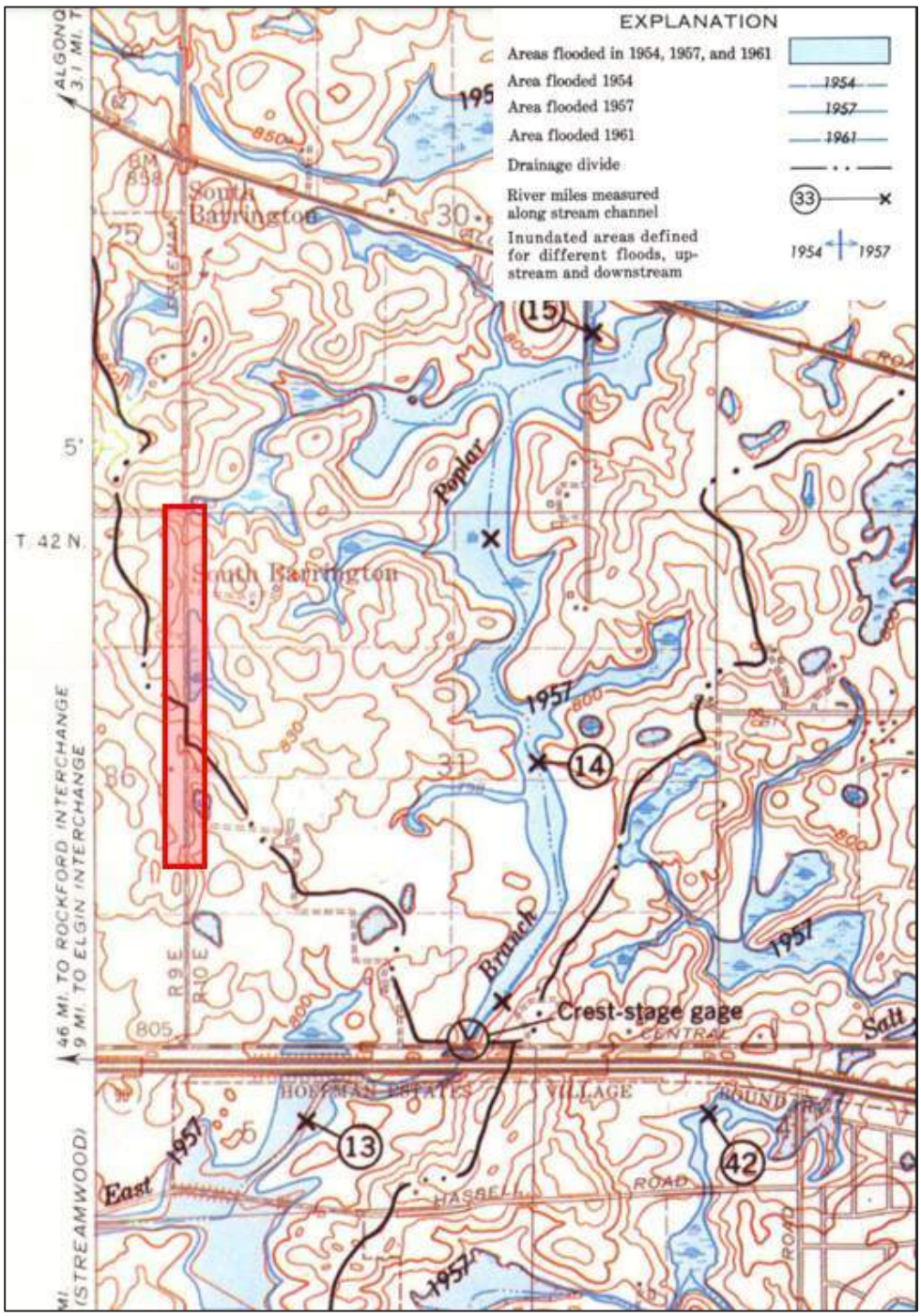
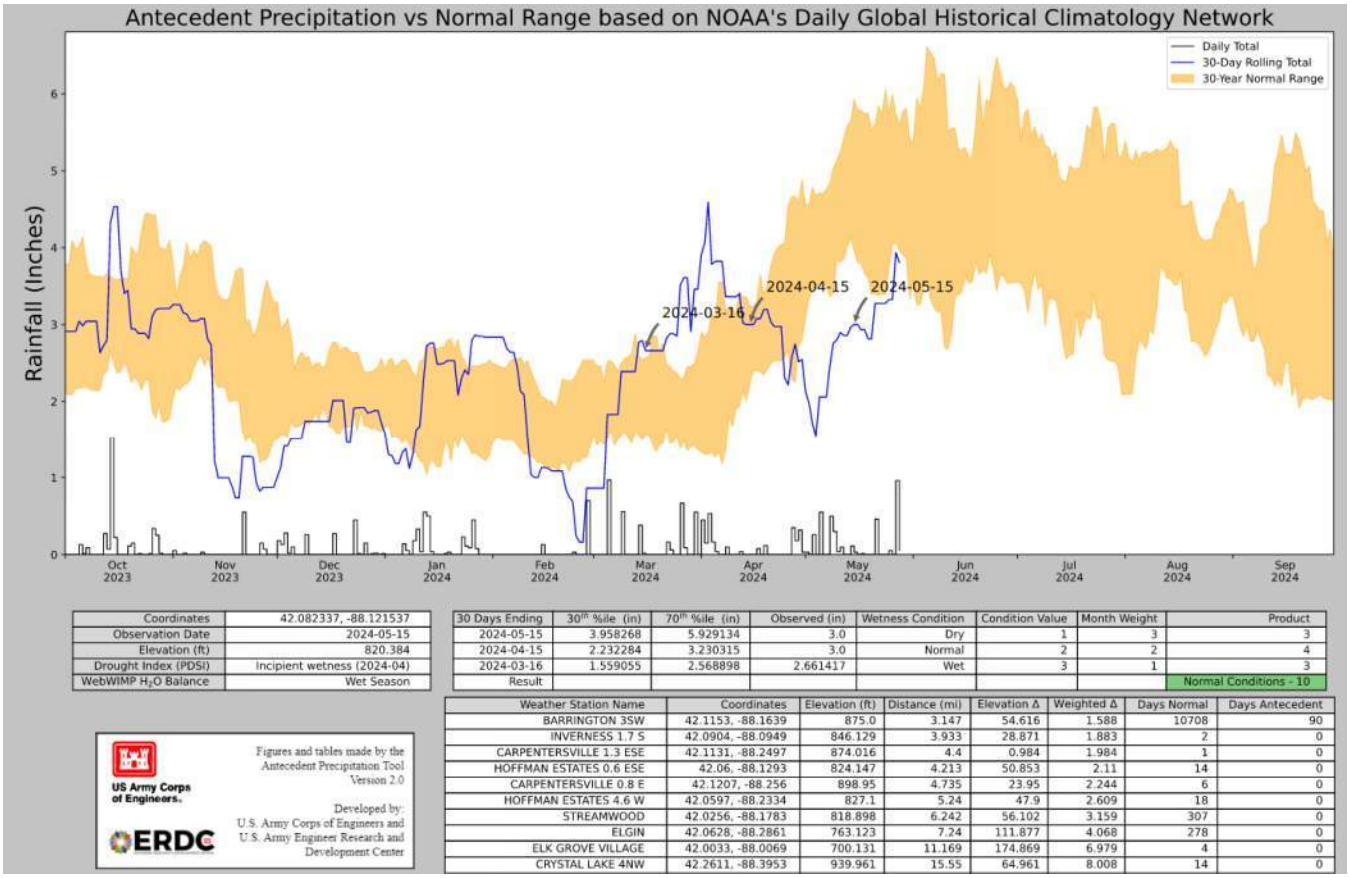


Exhibit 2- Hydrologic Atlas Palatine Quadrangle

3.6 Antecedent Precipitation

The U.S. Army Corps of Engineerss (USACE) Antecedent Preciptiation Tool was queried to determine precipitation prior to the May 15 field visit. The tool displays 30 day rolling precipitation totals and compares the dates with normal range precipitation totals using data for area weather stations. The 30

day rolling average on March 16th was dry, April 15th was normal, and May 15th was wet. Overall, "normal conditions" were indicated and the drought index was "incipient wetness" (See Exhibit 3).



Coordinates	42.082337, -88.121537
Observation Date	2024-05-15
Elevation (ft)	820.384
Drought Index (PDSI)	Incipient wetness (2024-04)
WebWIMP H_2O Balance	Wet Season

30 Days Ending	30th %ile (in)	70th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-05-15	3.958268	5.929134	3.0	Dry	1	3	3
2024-04-15	2.232284	3.230315	3.0	Normal	2	2	4
2024-03-16	1.559055	2.568898	2.661417	Wet	3	1	3
Result							Normal Conditions - 10

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
BARRINGTON 3SW	42.1153, -88.1639	875.0	3.147	54.616	1.588	10708	90
INVERNESS 1.7 S	42.0904, -88.0949	846.129	3.933	28.871	1.883	2	0
CARPENTERSVILLE 1.3 ESE	42.1131, -88.2497	874.016	4.4	0.984	1.984	1	0
HOFFMAN ESTATES 0.6 ESE	42.06, -88.1293	824.147	4.213	50.853	2.11	14	0
CARPENTERSVILLE 0.8 E	42.1207, -88.256	898.95	4.735	23.95	2.244	6	0
HOFFMAN ESTATES 4.6 W	42.0597, -88.2334	827.1	5.24	47.9	2.609	18	0
STREAMWOOD	42.0256, -88.1783	818.898	6.242	56.102	3.159	307	0
ELGIN	42.0628, -88.2861	763.123	7.24	111.877	4.068	278	0
ELK GROVE VILLAGE	42.0033, -88.0069	700.131	11.169	174.869	6.979	4	0
CRYSTAL LAKE 4NW	42.2611, -88.3953	939.961	15.55	64.961	8.008	14	0

US Army Corps of Engineers.
ERDC
Figures and tables made by the Antecedent Precipitation Tool Version 2.0
Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center

Exhibit 3 - USACE Antecedent Precipitation Tool Results

4.0 Methods

Wetland delineation activities were conducted by wetland scientist Ted McCaslin, PWS and Carlton Folz, WPIT. An on-site wetland delineation was conducted on May 15 and 16, 2024. The delineation used methods described in the 1987 Corps of Engineers Wetlands Delineation Manual and the 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0).

Additionally, paired wetland points (one wetland/one upland) were sampled with a soil auger or shovel to a minimum depth of 18 inches for each sample point unless a restrictive layer was encountered. Midwest Region data forms were completed for plant communities and for representative wetland and non-wetland sites within the study area. Wetland vegetation, soil indicators, hydrology indicators and other data were recorded on Midwest Region data forms at fifteen (15) sample points within the study area. Additional plots were sampled throughout the study area to refine the wetland boundaries before the boundaries were recorded. Data forms are included in Appendix A.

Wetland boundaries were identified in the field, drawn on high-resolution photographs, and recorded with GPS equipment with real-time sub-meter accuracy. Representative photographs taken during the field delineation are in Appendix B.

Drainage pathways were observed for potential stream indicators including ordinary high water marks (OHWM), running water, water flow direction, absence of vegetation within wetlands, active sediment sorting, bank erosion, and bank filling.

4.1 Vegetation

The hydrophytic vegetation criteria for wetland classification are met when greater than 50% of the dominant plant species are hydrophytes. The indicator status of plant species is expressed in terms of the estimated probabilities of that species occurring in wetland conditions within a given region. Hydrophytes include all plants with indicator status given as Facultative (FAC), Facultative Wet (FACW), or Obligate (OBL). Facultative Upland (FACU) and Upland (UPL) are not considered hydrophytes. The latest USACE National Wetland Plant List, Midwest indicators found in the 2020 Regional Wetland Plant List was used for species indicators.

4.2 Soils

A hydric soil is formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part. Hydric soils exhibit characteristic morphologies that result from repeated periods of saturation or inundation. Saturation or inundation, combined with soil microbial activity causes the depletion of oxygen. This promotes certain biogeochemical processes, such as the accumulation of organic matter and the reduction, translocation, or accumulation of iron and other reducible elements. These processes result in distinctive characteristics, or field indicators, that persist in the soil during both wet and dry periods. Regionally-specific hydric soil indicators are described in the USDA Field Indicators of Hydric Soils in the United States Version 8.2, 2018. Soils were evaluated for field indicators by directly by digging soil pits and using a soil probe in soils with heavy clay content. Soil colors are described using the Munsell color notation system in this report.

4.3 Hydrology

For an area to have wetland hydrology, it must exhibit one or more primary indicators and/or two or more secondary indicators for USACE jurisdictional and isolated wetlands. Primary indicators include either the direct presence of water as inundation or saturation within the upper 12 inches of the soil profile, or direct evidence of recent inundation including water marks, drift lines, sediment deposits, or drainage patterns. Secondary indicators are conditions reflecting anaerobic conditions produced because of saturation or inundation. Secondary indicators include such conditions as surface soil cracks, oxidized root channels in the upper 12 inches of the soil profile, crayfish burrows, and a positive “FAC-Neutral Test” (i.e., the dominant vegetation is, on average, hydrophytic).

4.4 Floristic Quality Assessment

Observed plant species are noted to obtain the Floristic Quality Index (FQI) and mean C-value (coefficient of conservatism). Areas of high natural quality include native plants with C-values ranging from approximately 4 to 10. C-values are assigned to native plants as listed in Flora of the Chicago Region (Wilhelm and Rericha, 2017). A low C-value indicates that a plant is generally not considered high quality or is a habitat generalist. A native species FQI for each site is obtained by multiplying the mean C-value of all native plants encountered by the square root of the number (N) of native species. Native species FQI values of 0 to 5.0 are considered severely degraded, 5.1 to 9.9 are degraded, 10 to 19.9 are moderate quality with some native character, and those with values greater than 20 have natural characteristics and are considered an environmental asset.

The Chicago Region Floristic Quality Assessment (FQA) Calculator (11/28/2022 update) was used to generate FQA values. See results for individual wetland in Table 2 and Appendix C.

5.0 Results

Seven (7) wetlands and one (1) drainage ditch were observed in the study area. The identified wetlands were all depressional features. No streams or rivers were identified during the field visit. See Figure 3 and Tables 2 and 3 for delineated features location and summary data. Features are named in the order they were encountered in the field.

5.1 Wetlands

There are seven (7) wetlands within the study area. All the wetlands extend beyond the study limits. See Table 2 and Figure 3 for wetland location and summary information.

Wetland 1 is a depressional wetland located west of Huntington Blvd. Data Point 1 was taken within the wetland and Data Point 2 is the corresponding upland data point. Dominant hydrophytic vegetation observed in the wetland includes American elm (*Ulmus* americana) in the tree stratum and reed canary grass *(Phalaris arundinacea*) in the herb stratum. The boundaries of the wetland are distinct at east side at the slight rise at Huntington Blvd and gradual elsewhere. A culvert flowing east from Wetland 1 into Wetland 6 to the east on the east side of Huntington Blvd was observed. Wetland boundaries are gradual on to the west, north and south. Wetland 1 has an observed Cowardin classification of PEMA/PEMC. Wetland flags from a previous delineation were observed in the area and appear to have been in place at least over the previous winter. It is unknown why the wetland occurred or if all flags remained from that wetland. The wetland boundary observed on May 15, 2024 is very similar to the previous boundary flag locations where flags were present.

Wetland 2 is a depressional wetland west of Huntington Blvd and south of Wetland 1. Data Point 3 was taken in the depressional wetland with Data Point 4 as a corresponding upland point located in the adjacent shrub land. The wetland is hybrid cattail (*Typha x* glauca) dominant wetland. The wetland has an observed Cowardin classification of PEMC and extends west of the study area with distinct boundaries at the road bank and more gradual into to the west, north and south.

Wetland 3a and Wetland 3b are both contiguous wetlands west of Huntington Blvd and south of a driveway. Wetland 3a is a forested wetland with dominant hydrophytic vegetation eastern cottonwood (*Populus deltoides*) in the tree stratum and reed canary grass in the herb stratum. Wetland 3b which is an emergent wetland with common reed (*Phragmites australis*) dominant. Data Points 5-F and 5 correspond to Wetlands 3a and 3b respectively and Data Point 6 is the corresponding upland point located south of the wetland complex. The wetlands have distinct boundaries and appear to be fully within an isolated depression. Wetland 3a has an observed Cowardin classification of PFOB and Wetland 3b is PEMC.

Wetland 4 is an isolated depression wetland located east of Huntington Blvd in Paul Douglas Forest Preserve with an inlet from a culvert east of the multi-use trail. Data Point 7 was taken within the wetland with Data Point 8 located in the adjacent upland. Dominant hydrophytic vegetation is reed canary grass and the dominant wetland which extends east beyond the study area but still within the isolated depression. Wetland flags from a previous delineation were observed in the area and appear to have been in place at least over the previous winter. It is unknown why the wetland occurred or if all flags remained from that wetland. The wetland boundary observed on May 16, 2024 is very similar to the previous boundary flag locations where flags were present.. Wetland 4 flags had different markings from the flags observed in Wetland 1 so may they are likely from a separate wetland investigation.

Wetland 5 is a depressional wetland located between Huntington Blvd and the multi-use trail in the Paul Douglas Forest Preserve. Drainage Feature 1 drains into the northern portions of this wetland. Data Point 9 was taken in the wetland and Data Point 10 was taken in the adjacent upland. Dominant hydrophytic vegetation observed in Wetland 5 includes common buckthorn dominant in the tree stratum (*Rhamnus cathartica*), common buckthorn and green ash (*Fraxinus pennsylvanica*) dominant in the shrub stratum, and common reed in the herb stratum. This wetland has an observed Cowardin classification of PEMB/PSSB. Wetland 5 has gradual transitions into upland buckthorn forested areas to the north and south and an abrupt boundary at the multipurpose trail to the east. Additional wetlands are apparent east of the multipurpose trail outside of the study area Wetland 5 and adjacent wetlands do not appear to have a surface water connection to larger wetland/stream complexes and are isolated features.

Wetland 6 is similarly situated to Wetland 5, between Huntington Blvd and the multi-use trail, as a depressional wetland. Data Point 11 was taken within the wetland and Data Point 12 was taken in the upland adjacent to the wetland and between Wetland 5 and 6. This wetland is a common buckthorn in the tree and shrub stratum and reed canary grass in the herb stratum. This wetland has an observed

Cowardin classification of PEMB/PSSB similar boundaries and geomorphic position to Wetland 5. It is separated from Wetland 5 by a narrow strip of upland buckthorn-dominant forest.

Wetland 7 is a depressional wetland east of Huntington Blvd located at the northern extent of the study area. Data Point 12 was taken within the wetland and Data Point 13 is located in the adjacent upland forest. Dominant hydrophytic vegetation is common reed. The wetland boundary is gradual into upland forested area to the south and distinct at the Huntington Blvd road bank to the west. The wetland has an observed Cowardin classification of PEMC and appears to be contiguous with wetlands out of the study area and East Branch Poplar Creek.

TABLE 2: WETLANDS IN STUDY AREA

Feature	Wetland Type	Acres (in study area)	Dominant Vegetation (All Strata)	Associated Wetland Data Point	Latitude (Dec. Deg.)	Longitude (Dec. Deg.)	Native FQAI/ Native Mean C Value
Wetland 1	PEMA/PEMC	0.07	American Elm, reed canary grass	DP1	42.078537	-88.12185	2.31 / 3.00
Wetland 2	PEMC	0.22	Hybrid cattail, Virginia creeper, riverbank grape	DP3	42.077351	-88.12184	4.62 / 2.67
Wetland 3a	PFOB	0.03	Eastern cottonwood, common reed, reed canary grass	DP5-F	42.076349	-88.121859	10.21 / 4.17
Wetland 3b	PEMC	0.04	Elderberry, reed canary grass	DP5	42.076153	-88.121859	4.02 / 1.80
Wetland 4	PEMA	0.04	Reed canary grass	DP7	42.073891	-88.121342	0 / 0
Wetland 5	PEMB/PSSB	0.47	Common buckthorn, green ash, common reed	DP9	42.077335	-88.121377	7.27 / 2.30
Wetland 6	PEMB/PSSB	0.47	Common buckthorn, common reed	DP11	42.078585	-88.121435	10.39 / 3.00
Wetland 7	PEMC	0.18	Common reed	DP13	42.081292	-88.121418	2.86 / 1.17

5.2 Other Delineated Features

One drainage feature was observed in the project study area. The drainage feature inlet is a culvert and outlets into the northern portion of Wetland 5. The feature did not show stream bed or bank features. See Figure 3 and Table 3 for location and summary information.

TABLE 3: OTHER DELINEATED FEATURES IN STUDY AREA

Feature	Cowardin Classification	Area in study area (acres)	Area in study area (sq. ft.)	Latitude (Dec. Deg.)	Longitude (Dec. Deg.)
Drainage Feature 1	PEMBx	0.001	62	42.078053	-88.121490

6.0 Summary

Seven wetlands and one drainage feature were observed in the study area. Four of the wetlands are located within the Paul Douglas Forest Preserve. All wetlands except Wetland 7 appear to be within isolated depressions.

7.0 References

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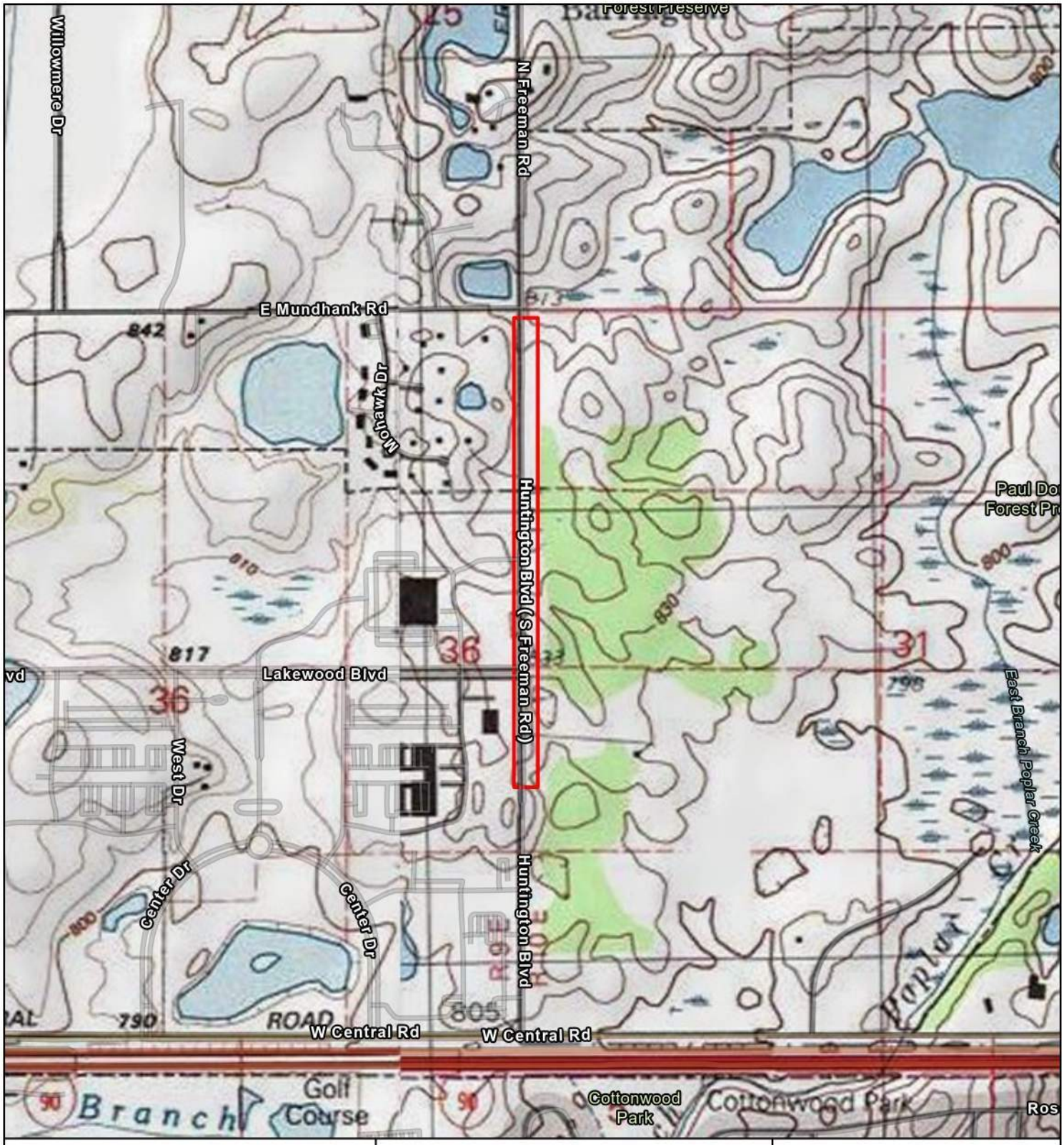
FIGURES



Legend

Study Area

Figure 1

Project Location

Huntington Blvd Water Main Replacement

Hoffman Estates, Cook County, IL

0 500 1,000

Feet

N

HRGreen

Date Printed:	Created By:
6/6/2024	CAF

1 inch equals 1,000 feet

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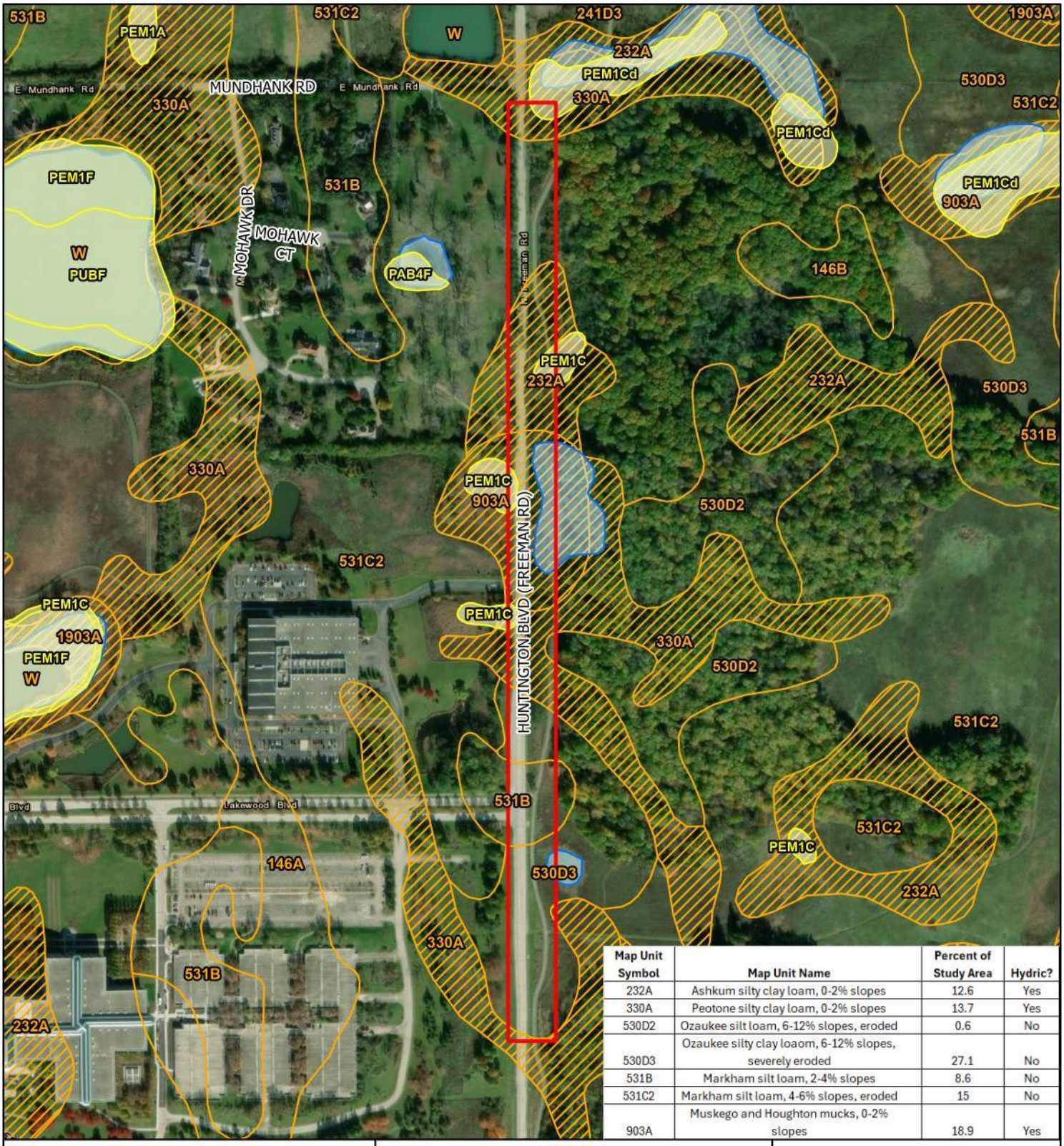

Map Unit Symbol	Map Unit Name	Percent of Study Area	Hydric?
232A	Ashkum silty clay loam, 0-2% slopes	12.6	Yes
330A	Peotone silty clay loam, 0-2% slopes	13.7	Yes
530D2	Ozaukee silt loam, 6-12% slopes, eroded	0.6	No
530D3	Ozaukee silty clay loaom, 6-12% slopes, severely eroded	27.1	No
531B	Markham silt loam, 2-4% slopes	8.6	No
531C2	Markham silt loam, 4-6% slopes, eroded	15	No
903A	Muskego and Houghton mucks, 0-2% slopes	18.9	Yes

Legend

- National Wetland Inventory
- NRCS Soils
- Hydric Soils
- NHD Lakes and Ponds
- NHD Streams and Rivers
- Study Area

Roads_Near_SA

Figure 2

Soils, NWI, NHD

Huntington Blvd Water Main Replacement

Hoffman Estates, Cook County, IL

0 250 500

Feet

N

HRGreen

Date Printed:	Created By:
6/6/2024	CAF

1 inch equals 500 feet

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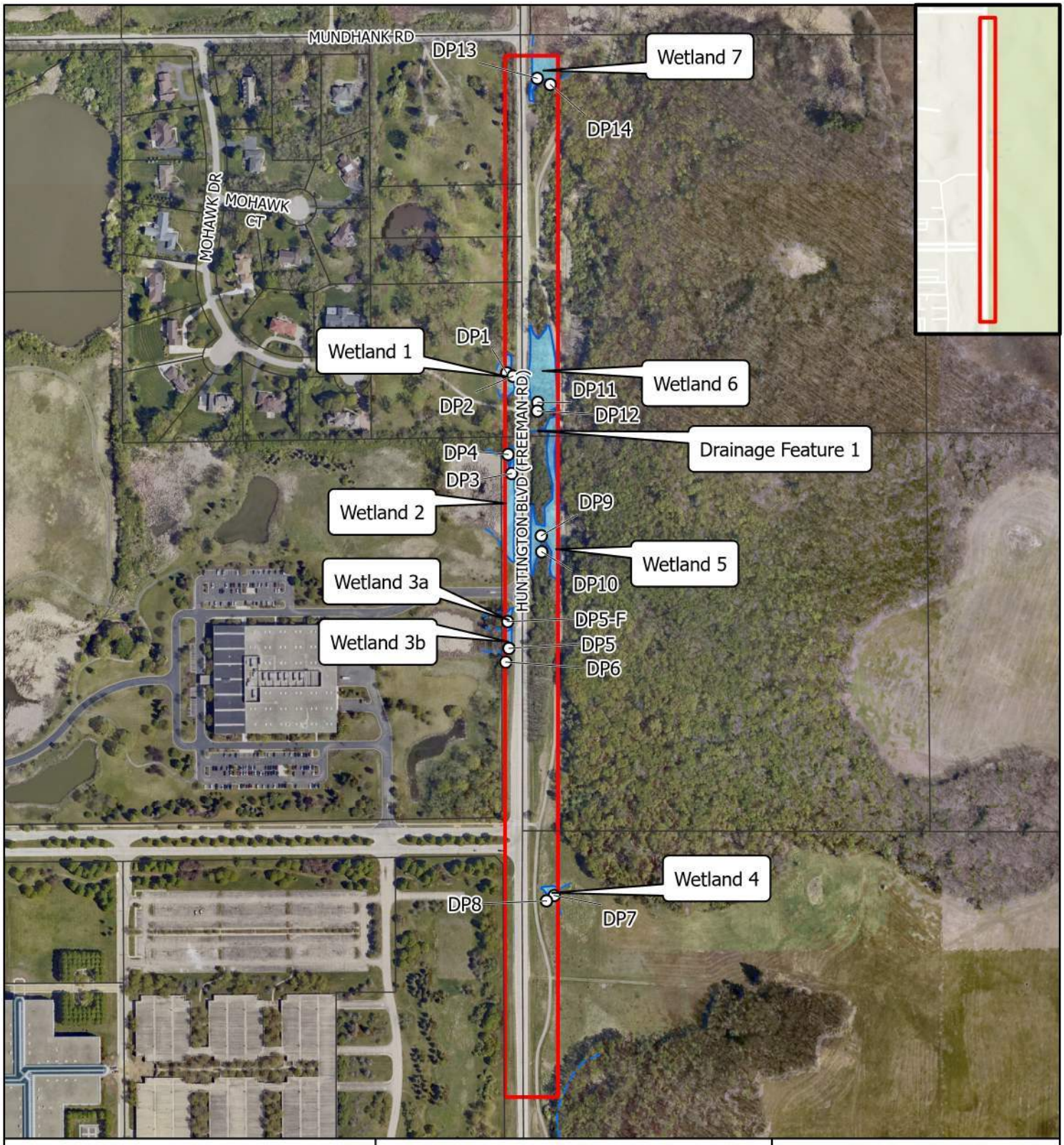

Legend

- Study Area
- Delineated Features
- Features Outside Study Area
- Data Points

Figure 3-1

Delineated Features

Huntington Blvd Water Main Replacement

Hoffman Estates, Cook County, IL

0 150 300 450

Feet

N

HRGreen

Date Printed:	Created By:
6/6/2024	CAF

1 inch equals 450 feet

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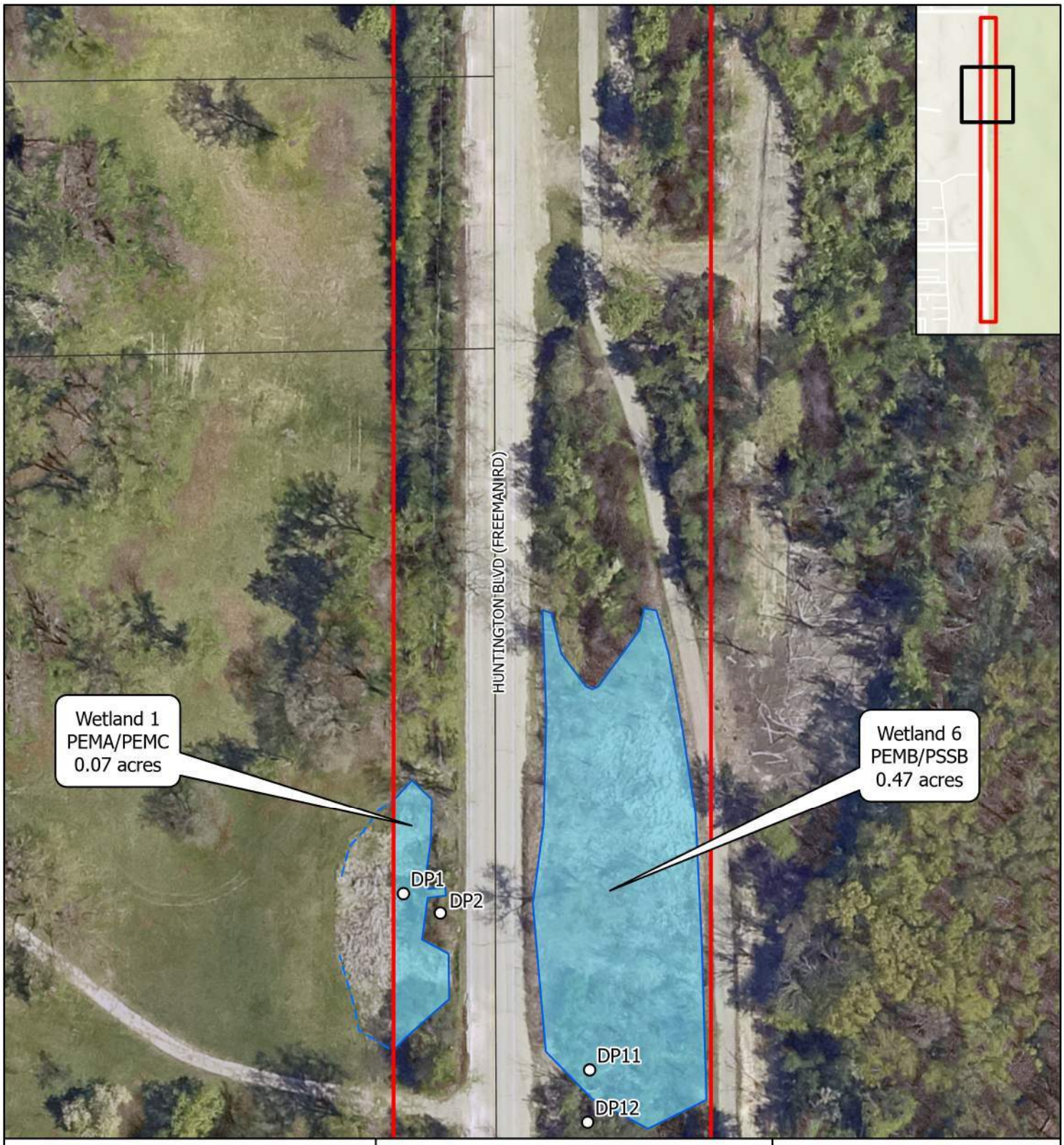

Legend

- Study Area
- Delineated Features
- Features Outside Study Area
- Data Points

Figure 3-2

Delineated Features

Huntington Blvd Water Main Replacement

Hoffman Estates, Cook County, IL

0 25 50 75

Feet

N

HRGreen

Date Printed:	Created By:
6/6/2024	CAF

1 inch equals 75 feet

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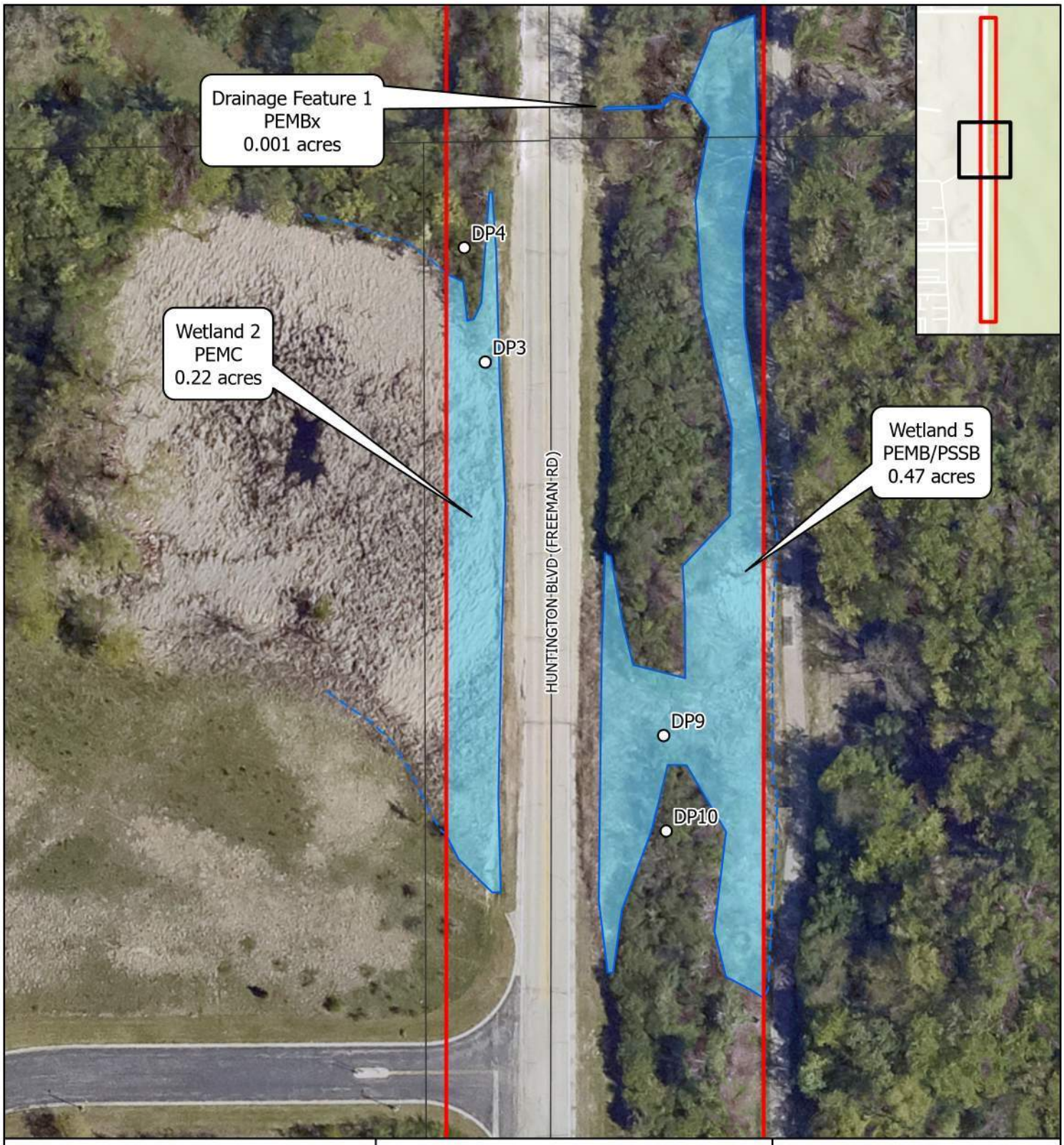

Legend

- Study Area
- Delineated Features
- Features Outside Study Area
- Data Points

Figure 3-3

Delineated Features

Huntington Blvd Water Main Replacement

Hoffman Estates, Cook County, IL

0 25 50 75

Feet

N

HRGreen

Date Printed:	Created By:
6/6/2024	CAF

1 inch equals 75 feet

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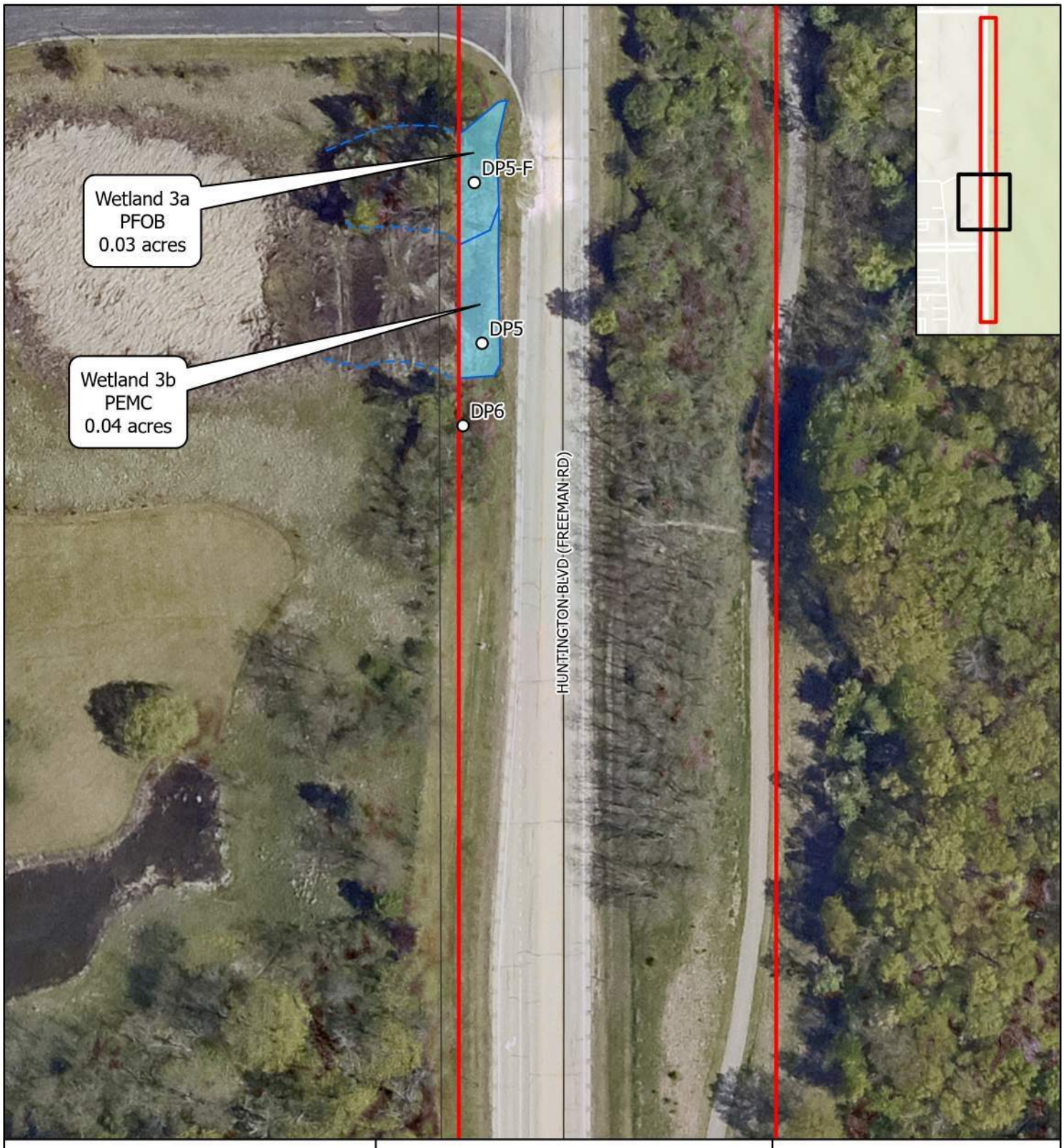


Legend

- Study Area
- Delineated Features
- Features Outside Study Area
- Data Points

Figure 3-4

Delineated Features

Huntington Blvd Water Main Replacement

Hoffman Estates, Cook County, IL

0 25 50 75

Feet

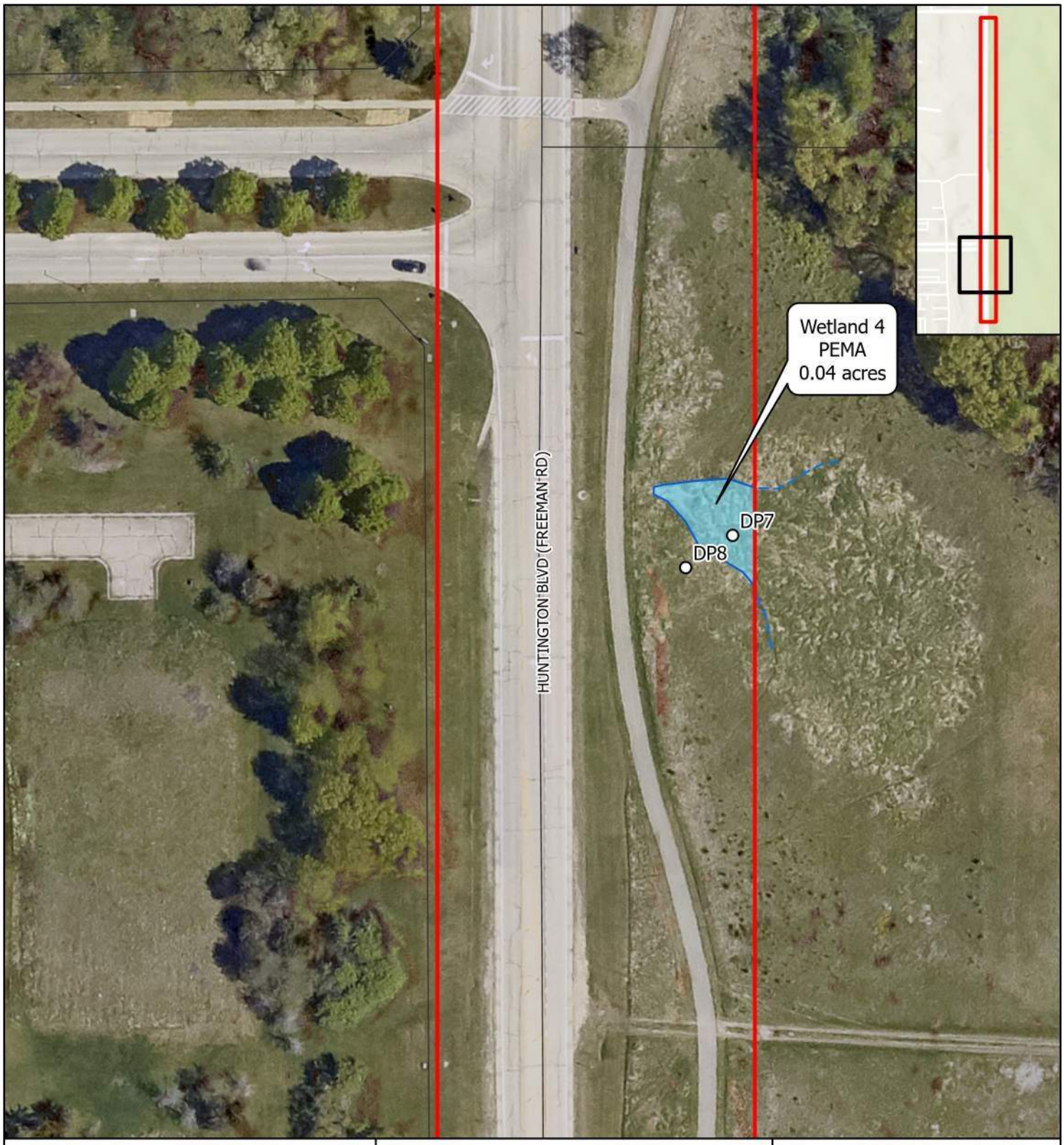
N

HRGreen

Date Printed:	Created By:
6/6/2024	CAF

1 inch equals 75 feet

Path: J:\2019\190796\CAD\GIS\ArcPro\HuntingtonBlvd_Wetlands\HuntingtonBlvd_Wetlands.aprx



Legend

- Study Area
- Delineated Features
- Features Outside Study Area
- Data Points

Figure 3-5

Delineated Features

Huntington Blvd Water Main Replacement

Hoffman Estates, Cook County, IL

0 25 50 75

Feet

N

HRGreen

Date Printed:	Created By:
6/6/2024	CAF

1 inch equals 75 feet

Path: J:\2019\190796\CAD\GIS\ArcPro\HuntingtonBlvd_Wetlands\HuntingtonBlvd_Wetlands.aprx

Legend

- Study Area
- Delineated Features
- Features Outside Study Area
- Data Points

Figure 3-6

Delineated Features

Huntington Blvd Water Main Replacement

Hoffman Estates, Cook County, IL

0 25 50 75

Feet

N

HRGreen

Date Printed:	Created By:
6/6/2024	CAF

1 inch equals 75 feet

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APPENDIX A: WETLAND DETERMINATION DATA FORMS

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Huntington Blvd - Hoffman Estates City/County: Hoffman Estates, Cook County Sampling Date: 2024-05-15

Applicant/Owner: Village of Hoffman Estates State: Illinois Sampling Point: DP1

Investigator(s): Ted McCaslin & Carl Folz Section, Township, Range: S36 T42N R9E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0 Lat: 42.07858072 Long: -88.12187812 Datum: WGS 84

Soil Map Unit Name: 232A - Ashkum silty clay loam, 0 to 2 percent slopes NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** Yes ✔ No _____
Hydric Soil Present?	Yes ✔	No _____	
Wetland Hydrology Present?	Yes ✔	No _____	

Remarks:

Wet basin west side of road. Abuts tree line near road. Data point in Wetland 1.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1. Ulmus americana	5	✔	FACW
2.			
3.			
4.			
5.			
	5 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5 ft r)			
1. Phalaris arundinacea	85	✔	FACW
2. Phragmites australis	10		FACW
3. Typha X glauca	3		OBL
4. Cirsium arvense	2		FACU
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft r)			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	3	x 1 =	3
FACW species	100	x 2 =	200
FAC species	0	x 3 =	0
FACU species	2	x 4 =	8
UPL species	0	x 5 =	0
Column Totals:	105 (A)		211 (B)

Prevalence Index = B/A = 2.00

Hydrophytic Vegetation Indicators:

✔ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

✔ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 4	10YR 2/1	95	10YR 3/3	5	C	M	Muck	
4 - 24	10YR 3/1	90	10YR 3/4	10	C	M	Clay Loam	
-								
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ✔ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ✔ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✔ No ____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ✔ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ✔ Geomorphic Position (D2)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No ✔ Depth (inches): _____

Water Table Present? Yes ✔ No ____ Depth (inches): 14

Saturation Present? (includes capillary fringe) Yes ✔ No ____ Depth (inches): 6

Wetland Hydrology Present? Yes ✔ No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Huntington Blvd - Hoffman Estates City/County: Hoffman Estates, Cook County Sampling Date: 2024-05-15

Applicant/Owner: Village of Hoffman Estates State: Illinois Sampling Point: DP2

Investigator(s): Ted McCaslin & Carl Folz Section, Township, Range: S36 T42N R9E

Landform (hillslope, terrace, etc.): Shoulder Local relief (concave, convex, none): Convex

Slope (%): 1 Lat: 42.07855155 Long: -88.1218039 Datum: WGS 84

Soil Map Unit Name: 232A - Ashkum silty clay loam, 0 to 2 percent slopes NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil ✔, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No ✔

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** Yes _____ No ✔
Hydric Soil Present?	Yes _____	No ✔	
Wetland Hydrology Present?	Yes _____	No ✔	

Remarks:

Data point on rise between DP1 and ditch adjacent to Huntington Blvd. Gravel fill in soil profile.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1. Rhamnus cathartica	85	✔	FAC
2.			
3.			
4.			
5.			
	85 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1. Rhamnus cathartica	15	✔	FAC
2. Cornus racemosa	5	✔	FAC
3. Fraxinus pennsylvanica	3		FACW
4.			
5.			
	23 = Total Cover		
Herb Stratum (Plot size: 5 ft r)			
1. Phalaris arundinacea	30	✔	FACW
2. Parthenocissus inserta	5		FACU
3. Solidago canadensis	5		FACU
4. Taraxacum officinale	5		FACU
5. Ranunculus abortivus	2		FACW
6. Rubus idaeus	2		FACU
7.			
8.			
9.			
10.			
	49 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft r)			
1. Smilax hispida	2		FAC
2.			
	2 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	35	x 2 =	70
FAC species	107	x 3 =	321
FACU species	17	x 4 =	68
UPL species	0	x 5 =	0
Column Totals:	159 (A)		459 (B)

Prevalence Index = B/A = 2.88

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 11	10YR 2/1	100					Silt Loam	
11 - 15	10YR 3/1	80	10YR 4/3	20			Clay Loam	some fill
-								
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Gravel

Depth (inches): 15

Hydric Soil Present? Yes _____ No ✔

Remarks:

Fill present at 15"

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Huntington Blvd - Hoffman Estates City/County: Hoffman Estates, Cook County Sampling Date: 2024-05-15

Applicant/Owner: Village of Hoffman Estates State: Illinois Sampling Point: DP3

Investigator(s): Ted McCaslin & Carl Folz Section, Township, Range: S36 T42N R9E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0 Lat: 42.07767585 Long: -88.12182269 Datum: WGS 84

Soil Map Unit Name: 903A - Muskego and Houghton mucks, 0 to 2 percent slopes NWI classification: PEM1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** Yes ✔ No _____
Hydric Soil Present?	Yes ✔	No _____	
Wetland Hydrology Present?	Yes ✔	No _____	

Remarks:

Large cattail wetland abutting west road bank. Sampling point in Wetland 2.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5 ft r)			
1. Typha X glauca	95	✔	OBL
2. Lythrum salicaria	3		OBL
3. Cirsium vulgare	2		FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft r)			
1. Parthenocissus quinquefolia	3	✔	FACU
2. Vitis riparia	2	✔	FACW
	5 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.66 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	98	x 1 =	98
FACW species	2	x 2 =	4
FAC species	0	x 3 =	0
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column Totals:	105 (A)		122 (B)

Prevalence Index = B/A = 1.16

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

✔ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0 - 4	10YR 2/1	100					Muck	
4 - 9	10YR 3/1	80	10YR 5/2	15	D	M	Clay Loam	
4 - 9			10YR 4/6	5	C	M	Clay Loam	
9 - 21	10YR 3/1	90	10YR 5/2	10	D	M	Clay	
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ✔ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ✔ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✔ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ✔ Surface Water (A1)
- ✔ High Water Table (A2)
- ✔ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ✔ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ✔ Geomorphic Position (D2)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ✔ No _____ Depth (inches): 1

Water Table Present? Yes ✔ No _____ Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes ✔ No _____ Depth (inches): 0

Wetland Hydrology Present? Yes ✔ No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Huntington Blvd - Hoffman Estates City/County: Hoffman Estates, Cook County Sampling Date: 2024-05-15

Applicant/Owner: Village of Hoffman Estates State: Illinois Sampling Point: DP4

Investigator(s): Ted McCaslin & Carl Folz Section, Township, Range: S36 T42N R9E

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex

Slope (%): 2 Lat: 42.0778611 Long: -88.1218484 Datum: WGS 84

Soil Map Unit Name: 903A - Muskego and Houghton mucks, 0 to 2 percent slopes NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** Yes _____ No ✔
Hydric Soil Present?	Yes ✔	No _____	
Wetland Hydrology Present?	Yes _____	No ✔	

Remarks:

Rise north and west of DP3/Wetland 2.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1. Rhamnus cathartica	60	✔	FAC
2.			
3.			
4.			
5.			
	60	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1. Rhamnus cathartica	35	✔	FAC
2. Cornus racemosa	7		FAC
3.			FACW
4.			
5.			
	42	= Total Cover	
Herb Stratum (Plot size: 5 ft r)			
1. Phalaris arundinacea	10	✔	FACW
2. Parthenocissus inserta	10	✔	FACU
3. Solidago canadensis	7		FACU
4. Taraxacum officinale	5		FACU
5. Rubus idaeus	5		FACU
6. Ranunculus abortivus	2		FACW
7.			
8.			
9.			
10.			
	39	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft r)			
1. Vitis riparia	2		FACW
2.			
	2	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	01022	x 2 =	2044
FAC species	102	x 3 =	306
FACU species	27	x 4 =	108
UPL species	0	x 5 =	0
Column Totals:	1151 (A)		2458 (B)

Prevalence Index = B/A = 2.13

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0 - 8	10YR 2/1	100					Silt Loam	
8 - 13	10YR 3/1	95	10YR 4/4	5	C	M	Clay Loam	
13 - 20	10YR 3/2	100					Clay Loam	
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ✔ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✔ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Huntington Blvd - Hoffman Estates City/County: Hoffman Estates, Cook County Sampling Date: 2024-05-15

Applicant/Owner: Village of Hoffman Estates State: Illinois Sampling Point: DP5

Investigator(s): Ted McCaslin & Carl Folz Section, Township, Range: S36 T42N R9E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 1 Lat: 42.07610364 Long: -88.12185948 Datum: WGS 84

Soil Map Unit Name: 330A - Peotone silty clay loam, 0 to 2 percent slopes NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** Yes ✔ No _____
Hydric Soil Present?	Yes ✔	No _____	
Wetland Hydrology Present?	Yes ✔	No _____	

Remarks:

Large phragmites wetland. Abuts forested wetland to north and road to east. Wetland 3b.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1. Sambucus nigra	5	✔	FAC
2.			
3.			
4.			
5.			
	5 = Total Cover		
Herb Stratum (Plot size: 5 ft r)			
1. Phragmites australis	85	✔	FACW
2. Phalaris arundinacea	15		FACW
3. Solidago altissima	5		FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	105 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft r)			
1. Vitis riparia	2		FACW
2.			
	2 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	102	x 2 =	204
FAC species	5	x 3 =	15
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column Totals:	112 (A)		239 (B)

Prevalence Index = B/A = 2.13

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

✔ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0 - 5	10YR 2/1	100					Muck	
5 - 10	10YR 2/1	100					Clay Loam	
10 - 17	10YR 2/1	80	10YR 4/3	20	C	M	Clay Loam	
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ✔ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✔ No ____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ✔ High Water Table (A2)
- ✔ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ✔ Geomorphic Position (D2)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No ✔ Depth (inches): _____

Water Table Present? Yes ✔ No ____ Depth (inches): 3

Saturation Present? (includes capillary fringe) Yes ✔ No ____ Depth (inches): 0

Wetland Hydrology Present? Yes ✔ No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Huntington Blvd - Hoffman Estates City/County: Hoffman Estates, Cook County Sampling Date: 2024-05-15

Applicant/Owner: Village of Hoffman Estates State: Illinois Sampling Point: DP5-F

Investigator(s): Ted McCaslin & Carl Folz Section, Township, Range: S36 T42N R9E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0 Lat: 42.07634439 Long: -88.12187434 Datum: WGS 84

Soil Map Unit Name: 330A - Peotone silty clay loam, 0 to 2 percent slopes NWI classification: PEM1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** Yes ✔ No _____
Hydric Soil Present?	Yes ✔	No _____	
Wetland Hydrology Present?	Yes ✔	No _____	

Remarks:

Forested point in Wetland 3b. Standing water among mature trees.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	90	✔	FAC
2.			
3.			
4.			
5.			
	90	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1. Salix petiolaris	4		OBL
2.			
3.			
4.			
5.			
	4	= Total Cover	
Herb Stratum (Plot size: 5 ft r)			
1. Phragmites australis	10	✔	FACW
2. Phalaris arundinacea	5	✔	FACW
3. Lycopus americanus	2		OBL
4. Rhamnus alnifolia	2		OBL
5.			
6.			
7.			
8.			
9.			
10.			
	19	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft r)			
1.			
2.			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	8	x 1 =	8
FACW species	15	x 2 =	30
FAC species	90	x 3 =	270
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	113 (A)		308 (B)

Prevalence Index = B/A = 2.72

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

✔ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP5-F

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 5	10YR 2/1	100					Muck	
5 - 12	10YR 3/1	90	10YR 4/3	10	C	M	Sandy Clay Loam	
-								
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ✔ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ✔ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✔ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ✔ Surface Water (A1)
- ✔ High Water Table (A2)
- ✔ Saturation (A3)
- ✔ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ✔ Geomorphic Position (D2)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ✔ No _____ Depth (inches): 3

Water Table Present? Yes ✔ No _____ Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes ✔ No _____ Depth (inches): 0

Wetland Hydrology Present? Yes ✔ No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Huntington Blvd - Hoffman Estates City/County: Hoffman Estates, Cook County Sampling Date: 2024-05-15

Applicant/Owner: Village of Hoffman Estates State: Illinois Sampling Point: DP6

Investigator(s): Ted McCaslin & Carl Folz Section, Township, Range: S36 T42N R9E

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex

Slope (%): 2 Lat: 42.07598028 Long: -88.12189811 Datum: WGS 84

Soil Map Unit Name: 330A - Peotone silty clay loam, 0 to 2 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** Yes _____ No ✔
Hydric Soil Present?	Yes _____	No ✔	
Wetland Hydrology Present?	Yes _____	No ✔	

Remarks:

Hillslope up from DP5, South of Wetlands 3a and 3b.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1. Robinia pseudoacacia	45	✔	FACU
2. Acer negundo	20	✔	FAC
3. Rhamnus cathartica	10		FAC
4.			
5.			
	75	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1. Rhamnus cathartica	90	✔	FAC
2.			
3.			
4.			
5.			
	90	= Total Cover	
Herb Stratum (Plot size: 5 ft r)			
1. Maianthemum racemosum	3		FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	3	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft r)			
1. Vitis riparia	2		FACW
2.			
	2	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.66 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	2	x 2 =	4
FAC species	120	x 3 =	360
FACU species	48	x 4 =	192
UPL species	0	x 5 =	0
Column Totals:	170 (A)		556 (B)

Prevalence Index = B/A = 3.27

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0 - 8	10YR 3/2	100					Silt Loam	
8 - 13	10YR 3/2	90	10YR 4/2	10	D	M		
13 - 20	10YR 2/1	100					Silt Loam	
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✔

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Huntington Blvd - Hoffman Estates City/County: Hoffman Estates, Cook County Sampling Date: 2024-05-16

Applicant/Owner: Village of Hoffman Estates State: Illinois Sampling Point: DP7

Investigator(s): Ted McCaslin & Carl Folz Section, Township, Range: S31 T42N R10E

Landform (hillslope, terrace, etc.): Closed Depression Local relief (concave, convex, none): Concave

Slope (%): 1 Lat: 42.07387291 Long: -88.12131912 Datum: WGS 84

Soil Map Unit Name: 530D3 - Ozaukee silty clay loam, 6 to 12 percent slopes, severely eroded NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔ No _____	**Is the Sampled Area within a Wetland?** Yes ✔ No _____
Hydric Soil Present?	Yes ✔ No _____	
Wetland Hydrology Present?	Yes ✔ No _____	

Remarks:

Closed depression east of Huntington Blvd extending east of study area limits. Culvert flows into wetland. Sampling point in Wetland 4.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5 ft r)			
1. Phalaris arundinacea	85	✔	FACW
2. Cirsium vulgare	5		FACU
3. Barbarea vulgaris	2		FAC
4. Galium aparine	2		FACU
5.			
6.			
7.			
8.			
9.			
10.			
	94 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft r)			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	85	x 2 =	170
FAC species	2	x 3 =	6
FACU species	7	x 4 =	28
UPL species	0	x 5 =	0
Column Totals:	94 (A)		204 (B)

Prevalence Index = B/A = 2.17

Hydrophytic Vegetation Indicators:

✔ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

✔ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 3	10YR 2/1	100					Clay Loam	
3 - 11	10YR 2/1	85	10YR 4/3	15	C	M	Clay Loam	
11 - 24	10YR 3/2	70	5Y 5/2	15	D	M	Clay Loam	
11 - 24			10YR 3/4	15	C	M	Clay Loam	
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ✔ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✔ No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ✔ High Water Table (A2)
- ✔ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ✔ Geomorphic Position (D2)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ✔ Depth (inches): _____

Water Table Present? Yes ✔ No ___ Depth (inches): 7

Saturation Present? (includes capillary fringe) Yes ✔ No ___ Depth (inches): 0

Wetland Hydrology Present? Yes ✔ No ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Huntington Blvd - Hoffman Estates City/County: Hoffman Estates, Cook County Sampling Date: 2024-05-16

Applicant/Owner: Village of Hoffman Estates State: Illinois Sampling Point: DP8

Investigator(s): Ted McCaslin & Carl Folz Section, Township, Range: S31 T42N R10E

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None

Slope (%): 2 Lat: 42.0738248 Long: -88.12141375 Datum: WGS 84

Soil Map Unit Name: 530D3 - Ozaukee silty clay loam, 6 to 12 percent slopes, severely eroded NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No ✔	
Hydric Soil Present?	Yes _____	No ✔	**Is the Sampled Area within a Wetland?** Yes _____ No ✔
Wetland Hydrology Present?	Yes _____	No ✔	

Remarks:

Hillslope up from DP7. Between Wetland 4 and roadway.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5 ft r)			
1. Solidago canadensis	90	✔	FACU
2. Barbarea vulgaris	5		FAC
3. Cirsium vulgare	2		FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	97 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft r)			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	5	x 3 =	15
FACU species	92	x 4 =	368
UPL species	0	x 5 =	0
Column Totals:	97 (A)		383 (B)

Prevalence Index = B/A = 3.94

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No ✔

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP8

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0 - 16	10R 3/1	100					Silty Clay Loam	
-								
-								
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✔

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Huntington Blvd - Hoffman Estates City/County: Hoffman Estates, Cook County Sampling Date: 2024-05-16

Applicant/Owner: Village of Hoffman Estates State: Illinois Sampling Point: DP9

Investigator(s): Ted McCaslin & Carl Folz Section, Township, Range: S31 T42N R10E

Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave

Slope (%): 0 Lat: 42.07711532 Long: -88.12146521 Datum: WGS 84

Soil Map Unit Name: 903A - Muskego and Houghton mucks, 0 to 2 percent slopes NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** Yes ✔ No _____
Hydric Soil Present?	Yes ✔	No _____	
Wetland Hydrology Present?	Yes ✔	No _____	

Remarks:

Toe slope of large phragmites stand adjacent to road in Wetland 5.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1. Rhamnus cathartica	15	✔	FAC
2.			
3.			
4.			
5.			
	15	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1. Rhamnus cathartica	5	✔	FAC
2. Fraxinus pennsylvanica	2	✔	FACW
3.			
4.			
5.			
	7	= Total Cover	
Herb Stratum (Plot size: 5 ft r)			
1. Phragmites australis	95	✔	FACW
2. Parthenocissus inserta	2		FACU
3. Solanum dulcamara	2		FAC
4. Ranunculus hispidus	1		FAC
5.			
6.			
7.			
8.			
9.			
10.			
	100	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft r)			
1. Vitis riparia	2		FACW
2.			
	2	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	99	x 2 =	198
FAC species	23	x 3 =	69
FACU species	2	x 4 =	8
UPL species	0	x 5 =	0
Column Totals:	124 (A)		275 (B)

Prevalence Index = B/A = 2.21

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

✔ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP9

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 5	10YR 2/1	100					Mucky Loam/Clay	
5 - 15	10YR 2/1	95	10YR 4/2	5	D	M	Silt Loam	
15 - 20	10YR 5/2	60	10YR 2/1	20	D	M	Silt Loam	
15 - 20			10YR 5/4	20	C	M	Silt Loam	
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ✔ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✔ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ✔ Geomorphic Position (D2)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes ✔ No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Huntington Blvd - Hoffman Estates City/County: Hoffman Estates, Cook County Sampling Date: 2024-05-16

Applicant/Owner: Village of Hoffman Estates State: Illinois Sampling Point: DP10

Investigator(s): Ted McCaslin & Carl Folz Section, Township, Range: S31 T42N R10E

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None

Slope (%): 2 Lat: 42.07697107 Long: -88.1214606 Datum: WGS 84

Soil Map Unit Name: 903A - Muskego and Houghton mucks, 0 to 2 percent slopes NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** Yes _____ No ✔
Hydric Soil Present?	Yes _____	No ✔	
Wetland Hydrology Present?	Yes _____	No ✔	

Remarks:

Dense and mature buckthorn thicket above DP9

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1. Rhamnus cathartica	100	✔	FAC
2.			
3.			
4.			
5.			
	100	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1. Rhamnus cathartica	25	✔	FAC
2.			
3.			
4.			
5.			
	25	= Total Cover	
Herb Stratum (Plot size: 5 ft r)			
1. Carex pensylvanica	7	✔	
2. Rhamnus cathartica	3	✔	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	10	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft r)			
1. Vitis riparia	2		FACW
2.			
	2	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	2	x 2 =	4
FAC species	128	x 3 =	384
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	130 (A)		388 (B)

Prevalence Index = B/A = 2.98

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 11	10YR 2/1	100					Silt Loam	
11 - 22	10YR 2/1	90	10YR 5/6	10	C	M	Silt	
-								
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✔

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Huntington Blvd - Hoffman Estates City/County: Hoffman Estates, Cook County Sampling Date: 2024-05-16

Applicant/Owner: Village of Hoffman Estates State: Illinois Sampling Point: DP11

Investigator(s): Ted McCaslin & Carl Folz Section, Township, Range: S31 T42N R10E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): None

Slope (%): 0 Lat: 42.07831569 Long: -88.12150402 Datum: WGS 84

Soil Map Unit Name: 232A - Ashkum silty clay loam, 0 to 2 percent slopes NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** Yes ✔ No _____
Hydric Soil Present?	Yes ✔	No _____	
Wetland Hydrology Present?	Yes ✔	No _____	

Remarks:

Depression between trail and Huntington Blvd. Sampling point in Wetland 6.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1. Rhamnus cathartica	15	✔	FAC
2.			
3.			
4.			
5.			
	15	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1. Rhamnus cathartica	35	✔	FAC
2.			
3.			
4.			
5.			
	35	= Total Cover	
Herb Stratum (Plot size: 5 ft r)			
1. Phalaris arundinacea	55	✔	FACW
2. Solanum dulcamara	10		FAC
3. Bidens frondosa	5		FACW
4. Typha X glauca	5		OBL
5.			
6.			
7.			
8.			
9.			
10.			
	75	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft r)			
1. Vitis riparia	2		FACW
2.			
	2	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	5	x 1 =	5
FACW species	62	x 2 =	124
FAC species	60	x 3 =	180
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	127 (A)		309 (B)

Prevalence Index = B/A = 2.43

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

✔ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP11

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 6	10YR 2/1	100					Mucky Loam/Clay	
6 - 15	10YR 2/1	85	10YR 4/3	15	C	M	Clay Loam	
15 - 20	10YR 5/3	60	10YR 4/4	30	C	M	Clay Loam	
15 - 20			10YR 3/1	10	D	M	Clay Loam	
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ✔ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ✔ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✔ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ✔ Geomorphic Position (D2)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes ✔ No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Huntington Blvd - Hoffman Estates City/County: Hoffman Estates, Cook County Sampling Date: 2024-05-16

Applicant/Owner: Village of Hoffman Estates State: Illinois Sampling Point: DP12

Investigator(s): Ted McCaslin & Carl Folz Section, Township, Range: S31 T42N R10E

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None

Slope (%): 2 Lat: 42.0782372 Long: -88.12150829 Datum: WGS 84

Soil Map Unit Name: 232A - Ashkum silty clay loam, 0 to 2 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** Yes _____ No ✔
Hydric Soil Present?	Yes _____	No ✔	
Wetland Hydrology Present?	Yes _____	No ✔	

Remarks:

Mature buckthorn thicket above DP11

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1. Rhamnus cathartica	70	✔	FAC
2.			
3.			
4.			
5.			
	70	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1. Rhamnus cathartica	25	✔	FAC
2.			
3.			
4.			
5.			
	25	= Total Cover	
Herb Stratum (Plot size: 5 ft r)			
1. Carex pensylvanica	7	✔	
2. Parthenocissus inserta	5	✔	FACU
3. Rhamnus cathartica	3		FAC
4. Geum canadense	2		FAC
5. Rosa multiflora	2		FACU
6.			
7.			
8.			
9.			
10.			
	19	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft r)			
1. Vitis riparia	2		FACW
2.			
	2	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.66 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	2	x 2 =	4
FAC species	100	x 3 =	300
FACU species	7	x 4 =	28
UPL species	0	x 5 =	0
Column Totals:	109 (A)		332 (B)

Prevalence Index = B/A = 3.04

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 10	10YR 2/1	100					Silt Loam	
10 - 22	10YR 2/1	90	10YR 5/6	10	C	M	Silt	
-								
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✔

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Huntington Blvd - Hoffman Estates City/County: Hoffman Estates, Cook County Sampling Date: 2024-05-16

Applicant/Owner: Village of Hoffman Estates State: Illinois Sampling Point: DP13

Investigator(s): Ted McCaslin & Carl Folz Section, Township, Range: S31 T42N R10E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0 Lat: 42.08122912 Long: -88.12150058 Datum: WGS 84

Soil Map Unit Name: 330A - Peotone silty clay loam, 0 to 2 percent slopes NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** Yes ✔ No _____
Hydric Soil Present?	Yes ✔	No _____	
Wetland Hydrology Present?	Yes ✔	No _____	

Remarks:

Large phragmites depression extending north and east of the study area. Data Point in Wetland 7.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5 ft r)			
1. Phragmites australis	100	✔	FACW
2. Phalaris arundinacea	5		FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	105 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft r)			
1. Vitis riparia	2		FACW
2.			
	2 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	107	x 2 =	214
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	107 (A)		214 (B)

Prevalence Index = B/A = 2.00

Hydrophytic Vegetation Indicators:

✔ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

✔ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP13

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 2	10YR 2/1	100					Muck	
2 - 11	10YR 2/1	90	10YR 4/2	10	D	M	Clay Loam	
11 - 16	10YR 3/1	90	10YR 3/4	10	C		Clay Loam	
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ✔ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✔ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ✔ High Water Table (A2)
- ✔ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ✔ Geomorphic Position (D2)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ✔ Depth (inches): _____

Water Table Present? Yes ✔ No ___ Depth (inches): 10

Saturation Present? (includes capillary fringe) Yes ✔ No ___ Depth (inches): 8

Wetland Hydrology Present? Yes ✔ No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Huntington Blvd - Hoffman Estates City/County: Hoffman Estates, Cook County Sampling Date: 2024-05-16

Applicant/Owner: Village of Hoffman Estates State: Illinois Sampling Point: DP14

Investigator(s): Ted McCaslin & Carl Folz Section, Township, Range: S31 T42N R10E

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None

Slope (%): 1 Lat: 42.08115234 Long: -88.12124167 Datum: WGS 84

Soil Map Unit Name: 330A - Peotone silty clay loam, 0 to 2 percent slopes NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** Yes _____ No ✔
Hydric Soil Present?	Yes ✔	No _____	
Wetland Hydrology Present?	Yes _____	No ✔	

Remarks:

Hillslope in forested area. Upgradient from DP13.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1. Acer saccharinum	90	✔	FACW
2. Rhamnus cathartica	10		FAC
3. Rosa multiflora	2		FACU
4.			
5.			
	102	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1. Rhamnus cathartica	25	✔	FAC
2.			
3.			
4.			
5.			
	25	= Total Cover	
Herb Stratum (Plot size: 5 ft r)			
1. Carex pensylvanica	5	✔	
2. Geum canadense	3	✔	FAC
3. Glechoma hederacea	3	✔	FACU
4. Parthenocissus inserta	2		FACU
5. Sanicula canadensis	2		FACU
6.			
7.			
8.			
9.			
10.			
	15	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft r)			
1. Parthenocissus quinquefolia	3		FACU
2.			
	3	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	90	x 2 =	180
FAC species	38	x 3 =	114
FACU species	12	x 4 =	48
UPL species	0	x 5 =	0
Column Totals:	140 (A)		342 (B)

Prevalence Index = B/A = 2.44

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP14

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 8	10YR 2/1	100					Silt Loam	
8 - 17	10YR 3/1	95	10YR 4/3	5	C	M	Silt Loam	
-								
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ✔ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✔ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

APPENDIX B: SITE PHOTOGRAPHS

Survey: Huntington Blvd - Hoffman Estates

Region: Midwest

DP1 in Wetland 1

East facing, DP1 in depression of Wetland 1 with forested upland and roadway in background.

Sampling Point: **DP1**

Soils of DP1

Soil profile associated with Data Point 1.

Sampling Point: **DP1**

Wetland 1

Wetland 1, depression with wetland in it with previous wetland delineation flags on boundary.

Sampling Point: **N/A**

Data Point 2

South facing, Data Point 2 in upland forested area between Wetland 1 and Huntington Blvd.

Sampling Point: **DP2**

Survey: Huntington Blvd - Hoffman Estates

Region: Midwest

DP3 in Wetland 2

West facing, photo from road shoulder of DP3 in Wetland 2.

Sampling Point: **DP3**

DP3

Soils Profile associated with DP3.

Sampling Point: **DP3**

Wetland 2

West facing, Wetland 2 extending away from Huntington Blvd.

Sampling Point: **N/A**

Wetland 2

North facing, Wetland 2 adjacent to roadway shoulder. Transition to upland forest to the north.

Sampling Point: **N/A**

Survey: Huntington Blvd - Hoffman Estates

Region: Midwest

DP5-F

Data Point 5-F in Wetland 3a. Large trees are eastern cottonwood.

Sampling Point: **DP5-F**

DP5-F Soils

Soils associated with DP5-F.

Sampling Point: **DP5-F**

DP5 in Wetland 3b.

Northeast facing, DP5 in Wetland 3b with Huntington Blvd in the background.

Sampling Point: **DP5**

DP5 Soils

Soil profile associated with DP5 in Wetland 3b.

Sampling Point: **DP5**

Survey: Huntington Blvd - Hoffman Estates

Region: Midwest

DP6

East facing, DP6 in upland forest. Located south and upgradient from Wetland 3a and 3b.

Sampling Point: **DP6**

DP7 in Wetland 4

Northwest facing, DP7 in depression with Huntington Blvd in the background.

Sampling Point: **DP7**

DP7 Soils

Soil profile associated with Data Point 7.

Sampling Point: **DP7**

DP8

Upland plot located upgradient from DP7.

Sampling Point: **DP8**

Survey: Huntington Blvd - Hoffman Estates

Region: Midwest

DP9 in Wetland 5

Data Point 9 located in Wetland 5.

Sampling Point: **DP9**

Sampling Point: **N/A**

DP10

South facing, DP10 in upland, common buckthorn dense area.

Sampling Point: **DP10**

Wetland 5

South facing, Wetland 5 adjacent to multi-use path near eastern extents of study area.

Sampling Point: **N/A**

Survey: Huntington Blvd - Hoffman Estates

Region: Midwest

Drainage Feature 1

West facing, drainage feature 1 with Huntington Blvd in the background.

Sampling Point: **N/A**

DP11 in Wetland 6

Southeast facing, DP11 within Wetland 6

Sampling Point: **DP11**

DP11 Soils

Soil profile associated with Data Point 11.

Sampling Point: **DP11**

Wetland 6

North facing, Wetland 6 adjacent to multi-use path.

Sampling Point: **N/A**

Survey: Huntington Blvd - Hoffman Estates

Region: Midwest

DP12

DP12 in upland common buckthorn area

Sampling Point: **DP12**

Sampling Point: **N/A**

Sampling Point: **N/A**

Sampling Point: **N/A**

Survey: Huntington Blvd - Hoffman Estates

Region: Midwest

Sampling Point: **N/A**

Sampling Point: **N/A**

APPENDIX C: FLORISTIC QUALITY ASSESSMENT SHEETS

SITE:	Wetland 1	
LOCALE:	Hungington Blvd	
BY:	Ted McCaslin & Carl Folz	
NOTES:		

CONSERVATISM-BASED METRICS				ADDITIONAL METRICS
MEAN C (NATIVE SPECIES)	1.33		SPECIES RICHNESS (ALL)	8
MEAN C (ALL SPECIES)	0.50		SPECIES RICHNESS (NATIVE)	3
MEAN C (NATIVE TREES)	3.00		% NON-NATIVE	0.63
MEAN C (NATIVE SHRUBS)	n/a		WET INDICATOR (ALL)	-0.38
MEAN C (NATIVE HERBACEOUS)	n/a		WET INDICATOR (NATIVE)	-0.33
FQAI (NATIVE SPECIES)	2.31		% HYDROPHYTE (MIDWEST)	0.75
FQAI (ALL SPECIES)	1.41		% NATIVE PERENNIAL	0.38
ADJUSTED FQAI	8.16		% NATIVE ANNUAL	0.00
% C VALUE 0	0.75		% ANNUAL	0.00
% C VALUE 1-3	0.25		% PERENNIAL	0.88
% C VALUE 4-6	0.00			
% C VALUE 7-10	0.00			

SPECIES ACRONYM	SPECIES NAME (NWPL/ MOHLENBROCK)	SPECIES (SYNONYM)	COMMON NAME	C VALUE	MIDWEST WET INDICATOR	NC-NE WET INDICATOR	WET INDICATOR (NUMERIC)	HABIT	DURATION	NATIVITY
BARVUL	Barbarea vulgaris	BARBAREA VULGARIS	Garden Yellow-Rocket	0	FAC	FAC	0	Forb	Biennial	Adventive
CIRARV	Cirsium arvense	CIRSIUM ARVENSE	Canadian Thistle	0	FACU	FACU	1	Forb	Perennial	Adventive
PARINS	Parthenocissus inserta	Parthenocissus inserta	Thicket-Creeper	0	FACU	FACU	1	Vine	Perennial	Native
PHAARU	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	FACW	-1	Grass	Perennial	Adventive
SOLDUL	Solanum dulcamara	SOLANUM DULCAMARA	Climbing Nightshade	0	FAC	FAC	0	Vine	Perennial	Adventive
TYPGLA	Typha X glauca	TYPHA X GLAUCA	Hybrid Cat-Tail	0	OBL	OBL	-2	Forb	Perennial	Adventive
ULMAME	Ulmus americana	Ulmus americana	American Elm	3	FACW	FACW	-1	Tree	Perennial	Native
VITRIP	Vitis riparia	Vitis riparia var. syrticola	River-Bank Grape	1	FACW	FAC	-1	Vine	Perennial	Native

SITE:	Wetland 2	
LOCALE:	Huntington Blvd	
BY:	Ted McCaslin & Carl Folz	

NOTES:

CONSERVATISM-BASED METRICS				ADDITIONAL METRICS
MEAN C (NATIVE SPECIES)	2.67		SPECIES RICHNESS (ALL)	9
MEAN C (ALL SPECIES)	0.89		SPECIES RICHNESS (NATIVE)	3
MEAN C (NATIVE TREES)	n/a		% NON-NATIVE	0.67
MEAN C (NATIVE SHRUBS)	0.00		WET INDICATOR (ALL)	-0.78
MEAN C (NATIVE HERBACEOUS)	2.67		WET INDICATOR (NATIVE)	-1.00
FQAI (NATIVE SPECIES)	4.62		% HYDROPHYTE (MIDWEST)	0.89
FQAI (ALL SPECIES)	2.67		% NATIVE PERENNIAL	0.33
ADJUSTED FQAI	15.40		% NATIVE ANNUAL	0.00
% C VALUE 0	0.67		% ANNUAL	0.00
% C VALUE 1-3	0.33		% PERENNIAL	0.78
% C VALUE 4-6	0.00			
% C VALUE 7-10	0.00			

SPECIES ACRONYM	SPECIES NAME (NWPL/ MOHLENBROCK)	SPECIES (SYNONYM)	COMMON NAME	C VALUE	MIDWEST WET INDICATOR	NC-NE WET INDICATOR	WET INDICATOR (NUMERIC)	HABIT	DURATION	NATIVITY
ALISUB	Alisma subcordatum	Alisma subcordatum	American Water-Plantain	3	OBL	OBL	-2	Forb	Perennial	Native
APOCAN	Apocynum cannabinum	Apocynum sibiricum	Indian-Hemp	2	FAC	FAC	0	Forb	Perennial	Native
BARVUL	Barbarea vulgaris	BARBAREA VULGARIS	Garden Yellow-Rocket	0	FAC	FAC	0	Forb	Biennial	Adventive
CIRVUL	Cirsium vulgare	CIRSIUM VULGARE	Bull Thistle	0	FACU	FACU	1	Forb	Biennial	Adventive
LYTSAL	Lythrum salicaria	LYTHRUM SALICARIA	Purple Loosestrife	0	OBL	OBL	-2	Forb	Perennial	Adventive
PHAARU	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	FACW	-1	Grass	Perennial	Adventive
PHRAUSM	Phragmites australis ssp. americanus	Phragmites americanus	Common Reed	3	FACW	FACW	-1	Grass	Perennial	Native
RHACAT	Rhamnus cathartica	RHAMNUS CATHARTICA	European Buckthorn	0	FAC	FAC	0	Shrub	Perennial	Adventive
TYPGLA	Typha X glauca	TYPHA X GLAUCA	Hybrid Cat-Tail	0	OBL	OBL	-2	Forb	Perennial	Adventive

SITE:	Wetland 3a	
LOCALE:	Huntington Blvd	
BY:	Ted McCaslin & Carl Folz	
NOTES:		

CONSERVATISM-BASED METRICS				ADDITIONAL METRICS
MEAN C (NATIVE SPECIES)	4.17		SPECIES RICHNESS (ALL)	8
MEAN C (ALL SPECIES)	3.13		SPECIES RICHNESS (NATIVE)	6
MEAN C (NATIVE TREES)	0.50		% NON-NATIVE	0.25
MEAN C (NATIVE SHRUBS)	8.50		WET INDICATOR (ALL)	-1.00
MEAN C (NATIVE HERBACEOUS)	3.50		WET INDICATOR (NATIVE)	-1.33
FQAI (NATIVE SPECIES)	10.21		% HYDROPHYTE (MIDWEST)	0.88
FQAI (ALL SPECIES)	8.84		% NATIVE PERENNIAL	0.75
ADJUSTED FQAI	36.08		% NATIVE ANNUAL	0.00
% C VALUE 0	0.38		% ANNUAL	0.00
% C VALUE 1-3	0.25		% PERENNIAL	1.00
% C VALUE 4-6	0.13			
% C VALUE 7-10	0.25			

SPECIES ACRONYM	SPECIES NAME (NWPL/ MOHLENBROCK)	SPECIES (SYNONYM)	COMMON NAME	C VALUE	MIDWEST WET INDICATOR	NC-NE WET INDICATOR	WET INDICATOR (NUMERIC)	HABIT	DURATION	NATIVITY
ACESAI	Acer saccharinum	Acer saccharinum	Silver Maple	1	FACW	FACW	-1	Tree	Perennial	Native
LYCAME	Lycopus americanus	Lycopus americanus	Cut-Leaf Water-Horehound	4	OBL	OBL	-2	Forb	Perennial	Native
PHAARU	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	FACW	-1	Grass	Perennial	Adventive
PHRAUSM	Phragmites australis ssp. americanus	Phragmites americanus	Common Reed	3	FACW	FACW	-1	Grass	Perennial	Native
POPDEL	Populus deltoides	Populus deltoides	Eastern Cottonwood	0	FAC	FAC	0	Tree	Perennial	Native
RHAALN	Rhamnus alnifolia	Rhamnus alnifolia	Alder-Leaf Buckthorn	10	OBL	OBL	-2	Shrub	Perennial	Native
SALPET	Salix petiolaris	Salix petiolaris	Meadow Willow	7	OBL	FACW	-2	Shrub	Perennial	Native
TAROFF	Taraxacum officinale	TARAXACUM OFFICINALE	Common Dandelion	0	FACU	FACU	1	Forb	Perennial	Adventive

SITE:	Wetland 3b	
LOCALE:	Huntington Blvd	
BY:	Ted McCaslin & Carl Folz	
NOTES:		

CONSERVATISM-BASED METRICS				ADDITIONAL METRICS
MEAN C (NATIVE SPECIES)	1.80		SPECIES RICHNESS (ALL)	9
MEAN C (ALL SPECIES)	1.00		SPECIES RICHNESS (NATIVE)	5
MEAN C (NATIVE TREES)	n/a		% NON-NATIVE	0.44
MEAN C (NATIVE SHRUBS)	0.00		WET INDICATOR (ALL)	-0.33
MEAN C (NATIVE HERBACEOUS)	2.67		WET INDICATOR (NATIVE)	-0.40
FQAI (NATIVE SPECIES)	4.02		% HYDROPHYTE (MIDWEST)	0.67
FQAI (ALL SPECIES)	3.00		% NATIVE PERENNIAL	0.56
ADJUSTED FQAI	13.42		% NATIVE ANNUAL	0.00
% C VALUE 0	0.56		% ANNUAL	0.00
% C VALUE 1-3	0.33		% PERENNIAL	0.78
% C VALUE 4-6	0.11			
% C VALUE 7-10	0.00			

SPECIES ACRONYM	SPECIES NAME (NWPL/ MOHLENBROCK)	SPECIES (SYNONYM)	COMMON NAME	C VALUE	MIDWEST WET INDICATOR	NC-NE WET INDICATOR	WET INDICATOR (NUMERIC)	HABIT	DURATION	NATIVITY
ALLPET	Alliaria petiolata	ALLIARIA PETIOLATA	Garlic-Mustard	0	FAC	FACU	0	Forb	Biennial	Adventive
CIRVUL	Cirsium vulgare	CIRSIUM VULGARE	Bull Thistle	0	FACU	FACU	1	Forb	Biennial	Adventive
PARINS	Parthenocissus inserta	Parthenocissus inserta	Thicket-Creeper	0	FACU	FACU	1	Vine	Perennial	Native
PHAARU	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	FACW	-1	Grass	Perennial	Adventive
PHRAUSM	Phragmites australis ssp. americanus	Phragmites americanus	Common Reed	3	FACW	FACW	-1	Grass	Perennial	Native
SAMNIG	Sambucus nigra ssp. nigra	SAMBUCUS NIGRA	Black Elder	0	FAC	FACW	-1	Shrub	Perennial	Adventive
SCHFLU	Schoenoplectus fluviatilis	Scirpus fluviatilis; Bolboschoenus fluviatilis	River Club-Rush	4	OBL	OBL	-2	Sedge	Perennial	Native
SOLALT	Solidago altissima	Solidago altissima	Tall Goldenrod	1	FACU	FACU	1	Forb	Perennial	Native
VITRIP	Vitis riparia	Vitis riparia var. syrticola	River-Bank Grape	1	FACW	FAC	-1	Vine	Perennial	Native

SITE:	Wetland 4	
LOCALE:	Huntington Blvd	
BY:	Ted McCaslin & Carl Folz	
NOTES:		

CONSERVATISM-BASED METRICS				ADDITIONAL METRICS
MEAN C (NATIVE SPECIES)	0.00		SPECIES RICHNESS (ALL)	4
MEAN C (ALL SPECIES)	0.00		SPECIES RICHNESS (NATIVE)	1
MEAN C (NATIVE TREES)	n/a		% NON-NATIVE	0.75
MEAN C (NATIVE SHRUBS)	n/a		WET INDICATOR (ALL)	0.25
MEAN C (NATIVE HERBACEOUS)	0.00		WET INDICATOR (NATIVE)	1.00
FQAI (NATIVE SPECIES)	0.00		% HYDROPHYTE (MIDWEST)	0.50
FQAI (ALL SPECIES)	0.00		% NATIVE PERENNIAL	0.00
ADJUSTED FQAI	0.00		% NATIVE ANNUAL	0.25
% C VALUE 0	1.00		% ANNUAL	0.25
% C VALUE 1-3	0.00		% PERENNIAL	0.25
% C VALUE 4-6	0.00			
% C VALUE 7-10	0.00			

SPECIES ACRONYM	SPECIES NAME (NWPL/ MOHLENBROCK)	SPECIES (SYNONYM)	COMMON NAME	C VALUE	MIDWEST WET INDICATOR	NC-NE WET INDICATOR	WET INDICATOR (NUMERIC)	HABIT	DURATION	NATIVITY
BARVUL	Barbarea vulgaris	BARBAREA VULGARIS	Garden Yellow-Rocket	0	FAC	FAC	0	Forb	Biennial	Adventive
CIRVUL	Cirsium vulgare	CIRSIUM VULGARE	Bull Thistle	0	FACU	FACU	1	Forb	Biennial	Adventive
GALAPA	Galium aparine	Galium spurium	Sticky-Willy	0	FACU	FACU	1	Forb	Annual	Native
PHAARU	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	FACW	-1	Grass	Perennial	Adventive

SITE:	Wetland 5	
LOCALE:	Huntington Blvd	
BY:	Ted McCaslin & Carl Folz	
NOTES:		

CONSERVATISM-BASED METRICS				ADDITIONAL METRICS
MEAN C (NATIVE SPECIES)	2.30		SPECIES RICHNESS (ALL)	14
MEAN C (ALL SPECIES)	1.64		SPECIES RICHNESS (NATIVE)	10
MEAN C (NATIVE TREES)	4.00		% NON-NATIVE	0.29
MEAN C (NATIVE SHRUBS)	0.00		WET INDICATOR (ALL)	-0.29
MEAN C (NATIVE HERBACEOUS)	2.57		WET INDICATOR (NATIVE)	-0.20
FQAI (NATIVE SPECIES)	7.27		% HYDROPHYTE (MIDWEST)	0.79
FQAI (ALL SPECIES)	6.15		% NATIVE PERENNIAL	0.57
ADJUSTED FQAI	19.44		% NATIVE ANNUAL	0.14
% C VALUE 0	0.36		% ANNUAL	0.21
% C VALUE 1-3	0.50		% PERENNIAL	0.79
% C VALUE 4-6	0.07			
% C VALUE 7-10	0.07			

SPECIES ACRONYM	SPECIES NAME (NWPL/ MOHLENBROCK)	SPECIES (SYNONYM)	COMMON NAME	C VALUE	MIDWEST WET INDICATOR	NC-NE WET INDICATOR	WET INDICATOR (NUMERIC)	HABIT	DURATION	NATIVITY
APOCAN	Apocynum cannabinum	Apocynum sibiricum	Indian-Hemp	2	FAC	FAC	0	Forb	Perennial	Native
BIDFRO	Bidens frondosa	Bidens frondosa	Devil's-Pitchfork	1	FACW	FACW	-1	Forb	Annual	Native
FRAPEN	Fraxinus pennsylvanica	Fraxinus pennsylvanica subintegerrima; Fraxinus lanceolata	Green Ash	4	FACW	FACW	-1	Tree	Perennial	Native
HACVIR	Hackelia virginiana	Hackelia virginiana	Beggar's-Lice	1	FACU	FACU	1	Forb	Perennial	Native
PARINS	Parthenocissus inserta	Parthenocissus inserta	Thicket-Creeper	0	FACU	FACU	1	Vine	Perennial	Native
POLPER	Persicaria maculosa	POLYGONUM PERSICARIA	Lady's-Thumb	0	FACW	FAC	-1	Forb	Annual	Adventive
PHAARU	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	FACW	-1	Grass	Perennial	Adventive
PHRAUSM	Phragmites australis ssp. americanus	Phragmites americanus	Common Reed	3	FACW	FACW	-1	Grass	Perennial	Native
PILPUM	Pilea pumila	Pilea pumila	Canadian Clearweed	2	FACW	FACW	-1	Forb	Annual	Native
RANHIS	Ranunculus hispidus	Ranunculus hispidus	Bristly Buttercup	8	FAC	FAC	0	Forb	Perennial	Native
RHACAT	Rhamnus cathartica	RHAMNUS CATHARTICA	European Buckthorn	0	FAC	FAC	0	Shrub	Perennial	Adventive
SOLDUL	Solanum dulcamara	SOLANUM DULCAMARA	Climbing Nightshade	0	FAC	FAC	0	Vine	Perennial	Adventive
SOLCAN	Solidago canadensis	Solidago canadensis	Canadian Goldenrod	1	FACU	FACU	1	Forb	Perennial	Native
VITRIP	Vitis riparia	Vitis riparia var. syrticola	River-Bank Grape	1	FACW	FAC	-1	Vine	Perennial	Native

SITE:	Wetland 6	
LOCALE:	Huntington Blvd	
BY:	Ted McCaslin & Carl Folz	
NOTES:		

CONSERVATISM-BASED METRICS				ADDITIONAL METRICS
MEAN C (NATIVE SPECIES)	3.00		SPECIES RICHNESS (ALL)	18
MEAN C (ALL SPECIES)	2.00		SPECIES RICHNESS (NATIVE)	12
MEAN C (NATIVE TREES)	1.67		% NON-NATIVE	0.33
MEAN C (NATIVE SHRUBS)	0.00		WET INDICATOR (ALL)	-0.67
MEAN C (NATIVE HERBACEOUS)	3.75		WET INDICATOR (NATIVE)	-0.75
FQAI (NATIVE SPECIES)	10.39		% HYDROPHYTE (MIDWEST)	0.94
FQAI (ALL SPECIES)	8.49		% NATIVE PERENNIAL	0.56
ADJUSTED FQAI	24.49		% NATIVE ANNUAL	0.11
% C VALUE 0	0.39		% ANNUAL	0.11
% C VALUE 1-3	0.33		% PERENNIAL	0.89
% C VALUE 4-6	0.17			
% C VALUE 7-10	0.11			

SPECIES ACRONYM	SPECIES NAME (NWPL/ MOHLENBROCK)	SPECIES (SYNONYM)	COMMON NAME	C VALUE	MIDWEST WET INDICATOR	NC-NE WET INDICATOR	WET INDICATOR (NUMERIC)	HABIT	DURATION	NATIVITY
ACENEG	Acer negundo	Acer negundo var. violaceum	Ash-Leaf Maple	0	FAC	FAC	0	Tree	Perennial	Native
ACESAI	Acer saccharinum	Acer saccharinum	Silver Maple	1	FACW	FACW	-1	Tree	Perennial	Native
BIDFRO	Bidens frondosa	Bidens frondosa	Devil's-Pitchfork	1	FACW	FACW	-1	Forb	Annual	Native
FRAPEN	Fraxinus pennsylvanica	Fraxinus pennsylvanica subintegerrima; Fraxinus lanceolata	Green Ash	4	FACW	FACW	-1	Tree	Perennial	Native
GEUCAN	Geum canadense	Geum canadense	White Avens	1	FAC	FAC	0	Forb	Perennial	Native
LYCVIR	Lycopus virginicus	Lycopus virginicus	Virginia Water-Horehound	7	OBL	OBL	-2	Forb	Perennial	Native
PERVIR	Persicaria virginiana	Polygonum virginianum	Jumpseed	4	FAC	FAC	0	Forb	Perennial	Native
PHAARU	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	FACW	-1	Grass	Perennial	Adventive
PHRAUSM	Phragmites australis ssp. americanus	Phragmites americanus	Common Reed	3	FACW	FACW	-1	Grass	Perennial	Native
PILPUM	Pilea pumila	Pilea pumila	Canadian Clearweed	2	FACW	FACW	-1	Forb	Annual	Native
RANHIS	Ranunculus hispidus	Ranunculus hispidus	Bristly Buttercup	8	FAC	FAC	0	Forb	Perennial	Native
RHACAT	Rhamnus cathartica	RHAMNUS CATHARTICA	European Buckthorn	0	FAC	FAC	0	Shrub	Perennial	Adventive
SAMNIG	Sambucus nigra ssp. nigra	SAMBUCUS NIGRA	Black Elder	0	FAC	FACW	-1	Shrub	Perennial	Adventive
SOLDUL	Solanum dulcamara	SOLANUM DULCAMARA	Climbing Nightshade	0	FAC	FAC	0	Vine	Perennial	Adventive
SOLGIG	Solidago gigantea	Solidago gigantea	Late Goldenrod	4	FACW	FACW	-1	Forb	Perennial	Native
TAROFF	Taraxacum officinale	TARAXACUM OFFICINALE	Common Dandelion	0	FACU	FACU	1	Forb	Perennial	Adventive
TYPGLA	Typha X glauca	TYPHA X GLAUCA	Hybrid Cat-Tail	0	OBL	OBL	-2	Forb	Perennial	Adventive
VITRIP	Vitis riparia	Vitis riparia var. syrticola	River-Bank Grape	1	FACW	FAC	-1	Vine	Perennial	Native

SITE:	Wetland 7	
LOCALE:	Huntington Blvd	
BY:	Ted McCaslin & Carl Folz	
NOTES:		

CONSERVATISM-BASED METRICS				ADDITIONAL METRICS
MEAN C (NATIVE SPECIES)	1.17		SPECIES RICHNESS (ALL)	11
MEAN C (ALL SPECIES)	0.64		SPECIES RICHNESS (NATIVE)	6
MEAN C (NATIVE TREES)	1.00		% NON-NATIVE	0.45
MEAN C (NATIVE SHRUBS)	0.00		WET INDICATOR (ALL)	-0.09
MEAN C (NATIVE HERBACEOUS)	1.25		WET INDICATOR (NATIVE)	-0.17
FQAI (NATIVE SPECIES)	2.86		% HYDROPHYTE (MIDWEST)	0.73
FQAI (ALL SPECIES)	2.11		% NATIVE PERENNIAL	0.45
ADJUSTED FQAI	8.62		% NATIVE ANNUAL	0.09
% C VALUE 0	0.55		% ANNUAL	0.09
% C VALUE 1-3	0.45		% PERENNIAL	0.73
% C VALUE 4-6	0.00			
% C VALUE 7-10	0.00			

SPECIES ACRONYM	SPECIES NAME (NWPL/ MOHLENBROCK)	SPECIES (SYNONYM)	COMMON NAME	C VALUE	MIDWEST WET INDICATOR	NC-NE WET INDICATOR	WET INDICATOR (NUMERIC)	HABIT	DURATION	NATIVITY
ACESAI	Acer saccharinum	Acer saccharinum	Silver Maple	1	FACW	FACW	-1	Tree	Perennial	Native
ALLPET	Alliaria petiolata	ALLIARIA PETIOLATA	Garlic-Mustard	0	FAC	FACU	0	Forb	Biennial	Adventive
BARVUL	Barbarea vulgaris	BARBAREA VULGARIS	Garden Yellow-Rocket	0	FAC	FAC	0	Forb	Biennial	Adventive
GALAPA	Galium aparine	Galium spurium	Sticky-Willy	0	FACU	FACU	1	Forb	Annual	Native
GEUCAN	Geum canadense	Geum canadense	White Avens	1	FAC	FAC	0	Forb	Perennial	Native
GLEHED	Glechoma hederacea	GLECHOMA HEDERACEA	Groundivy	0	FACU	FACU	1	Forb	Perennial	Adventive
PHAARU	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	FACW	-1	Grass	Perennial	Adventive
PHRAUSM	Phragmites australis ssp. americanus	Phragmites americanus	Common Reed	3	FACW	FACW	-1	Grass	Perennial	Native
RHACAT	Rhamnus cathartica	RHAMNUS CATHARTICA	European Buckthorn	0	FAC	FAC	0	Shrub	Perennial	Adventive
SOLCAN	Solidago canadensis	Solidago canadensis	Canadian Goldenrod	1	FACU	FACU	1	Forb	Perennial	Native
VITRIP	Vitis riparia	Vitis riparia var. syrticola	River-Bank Grape	1	FACW	FAC	-1	Vine	Perennial	Native

APPENDIX J

PERMITS

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
1021 North Grand Avenue, East; Post Office Box 19276; Springfield, IL 62794-9276
Division of Public Water Supplies Telephone 217/782-1724

PUBLIC WATER SUPPLY CONSTRUCTION PERMIT

SUBJECT: HOFFMAN ESTATES (IL0311290)

Permit Issued to:
Village of Hoffman Estates
2305 Pembroke Ave
Hoffman Estates, IL 60169

PERMIT NUMBER: 1277-FY2024

DATE ISSUED: June 28, 2024
PERMIT TYPE: Water Main Extension

The issuance of this permit is based on plans and specifications prepared by the engineers/architects indicated and are identified as follows. This permit is issued for the construction and/or installation of the public water supply improvements described in this document, in accordance with the provisions of the Environmental Protection Act, Title IV, Sections 14 through 17, and Title X, Sections 39 and 40, and is subject to the conditions printed on the last page of this permit and the ADDITIONAL CONDITIONS listed below.

FIRM: HR Green, Inc.
NUMBER OF PLAN SHEETS: 13
TITLE OF PLANS: "Village of Hoffman Estates Huntington Blvd Water Main Replacement
APPLICATION RECEIVED DATE: May 29, 2024

PROPOSED IMPROVEMENTS:

The installation of approximately 69 feet of 16-inch, 2,852 feet of 18-inch water main located along Huntington Blvd near the intersection with Lakewood Blvd.

ADDITIONAL CONDITIONS:

1. All water mains shall be satisfactorily disinfected prior to use pursuant to Ill. Adm. Code, Title 35, Subtitle F, Section 602.310. Two consecutive sets of samples collected at least 24 hours apart must show the absence of coliform bacteria. The samples must be collected from every 1,200 feet of new water main along each branch and from the end of the line. An operating permit must be obtained before the project is placed in service. The application for operating permit and supporting documents can either be mailed to this office or emailed to EPA.PWSPermits@illinois.gov. Use of the email address is preferred.

2. When the owner or operator of a community water supply replaces a water main, the community water supply shall identify all lead service lines connected to the water main and shall comply with the requirements of Section 17.12 of the Act, 415 ILCS 5/17.12 for lead service line replacement. Galvanized service line must also be replaced if the galvanized service line is or was connected downstream to the lead piping. A statement must be submitted with the Application for Operating Permit indicating either that no full or partial lead service lines were identified or that Section 17.12 of the Act was complied with for this project.

3. When replacing water mains with lead service lines or partial lead service lines connected to them, the owner or operator of the community water supply shall provide the owner or operator of each potentially affected building that is serviced by the affected lead service lines or partial lead service lines, as well as

the occupants of those buildings, with an individual written notice. The lead informational notice shall be provided at least 14 days prior to permitted water main work. The notification provided by the community water supply must satisfy the requirements of Section 17.12(jj) of the Act, 415 ILCS 5/17.12(jj). A copy of the notice used must be submitted to the Agency with the Application for Operating Permit.

4. The permit approval is for the Application, Schedule B and 13 plan sheets received on May 29, 2024.

DCC:CLB

cc: HR Green, Inc.
Elgin Regional Office
Cook County Public Health Department
IDPH/DEH – Plumbing and Water Quality Program

David C. Cook, P.E.
Manager, Permit Section
Division of Public Water Supplies

STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS
ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

The Illinois Environmental Protection Agency Act (415 ILCS 5/39) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

These standard conditions shall apply to all permits which the Agency issues for construction or development projects which require permits under the Division of Water Pollution Control, Air Pollution Control, Public Water Supplies and Land Pollution Control. Special conditions may also be imposed by the separate divisions in addition to these standard conditions.

1. Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire one year after this date of issuance unless construction or development on this project has started on or prior to that date. (See standard condition #8 below)

2. The construction or development of facilities covered by this permit shall be done in compliance with applicable provisions of Federal laws and regulations, the Illinois Environmental Protection Act, and Rules and Regulations adopted the Illinois Pollution Control Board.

3. There shall be no deviations from the approved plans and specifications unless a written request for modification of the project, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.

4. The permittee shall allow any agent duly authorized by the Agency upon the presentation of credentials:

   a. to enter at reasonable times the permittee's premises where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit.

   b. to have access to and copy at reasonable times any records required be kept under the terms and conditions of this permit.

   c. to inspect at reasonable times, including during any hours or operation of equipment constructed or operated under this permit, such equipment or monitoring methodology or equipment required to be kept, used, operated, calibrated and maintained under this permit.

   d. to obtain and remove at reasonable times samples of any discharge or emission of pollutants.

   e. to enter at reasonable times and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.

5. The issuance of this permit:

   a. shall not be considered as in any manner affecting the title of the permits upon which the permitted facilities are to be located;

   b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities;

   c. does not release the permittee from compliance with the other applicable statues and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations;

   d. does not take into consideration or attest to the structural stability of any units or parts of the project;

   e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability directly or indirectly for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.

6. These standard conditions shall prevail unless modified by special conditions.

7. The Agency may file a complaint with the Board for modification, suspension or revocation of a permit:

   a. upon discovery that the permit application misrepresentation or false statements or that all relevant facts were not disclosed; or

   b. upon finding that any standard or special conditions have been violated; or

   c. upon any violation of the Environmental Protection Act or any Rules or Regulation effective thereunder as a result of the construction or development authorized by this permit.

8. Division of Public Water Supply Construction Permits expire one year from date of issuance or renewal, unless construction has started. If construction commences within one year from date of issuance or renewal, the permit expires five years from the date of permit issuance or renewal. A request for extension shall be filed prior to the permit expiration date.

APPENDIX K

CERTIFICATION OF BIDDER'S EXPERIENCE

CERTIFICATION OF BIDDER'S EXPERIENCE

VILLAGE OF HOFFMAN ESTATES
HUNTINGTON BLVD. WATER MAIN REPLACEMENT

Experience Requirements: Horizontal Directional Drilling Contractor shall have actively engaged in the installation of pipe using HDD for a minimum of five (5) years, during which time the Contractor will have completed at least six (6) projects of the same pipe material proposed, 1,000' continuous pull length (or longer), and 18" diameter (or larger) installed, using the same size of HDD equipment proposed. Field supervisory personnel employed by the HDD Contractor will have at least five (5) years' experience in the performance of the work and tasks as stated in the Contract Documents.

Equipment Requirements:

Minimum Rotational Torque, 15,000 ft/lbs.
Minimum pullback force, 120,000 lbs.

Provide references for three (3) projects completed within the past five (5) years.

1. Project Name: _____
   Project Location: _____
   Contract Amount: _____
   Construction Dates: _____
   Engineer: _____
   Owner: _____
   Contact Person: _____
   Phone No.: _____
   Brief Description: _____
   _____
   _____

2. Project Name: _____
   Project Location: _____
   Contract Amount: _____
   Construction Dates: _____
   Engineer: _____
   Owner: _____
   Contact Person: _____
   Phone No.: _____
   Brief Description: _____
   _____
   _____

3. Project Name: _____
   Project Location: _____
   Contract Amount: _____
   Construction Dates: _____
   Engineer: _____
   Owner: _____
   Contact Person: _____
   Phone No.: _____
   Brief Description: _____
   _____
   _____

By: _____
(Firm Name)

APPENDIX L

CONTRACT FORM &
VILLAGE'S PAYMENT AND
PERFORMANCE SURETY BOND FORM

(FOR REFERENCE)

Illinois Department of Transportation

Local Public Agency Formal Contract

Contractor's Name

Contractor's Address | City | State | Zip Code

STATE OF ILLINOIS

Local Public Agency | County | Section Number

Street Name/Road Name | Type of Funds

☐ CONTRACT BOND (when required)

For a County and Road District Project

Submitted/Approved

Highway Commissioner Signature & Date

Submitted/Approved

County Engineer/Superintendent of HighwaysSignature & Date

For a Municipal Project

Submitted/Approved/Passed

Signature & Date

Official Title

Department of Transportation

☐ Concurrence in approval of award

Regional Engineer Signature & Date

Local Public Agency	Local Street/Road Name	County	Section Number

1. THIS AGREEMENT, made and concluded the _____ (Day) day of _____ (Month and Year) between the _____ (Local Public Agency Type) of _____ (Local Public Agency), known as the party of the first part, and _____ (Contractor), its successor, and assigns, known as the party of the second part.

2. For and in consideration of the payments and agreements mentioned in the Proposal hereto attached, to be made and performed by the party of the first part, and according to the terms expressed in the Bond referring this contract, the party of the second part agrees with said party of the first part, at its own proper cost and expense, to do all the work, furnish all materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this contract.

3. It is also understood and agreed that the LPA Formal Contract Proposal, Special Provisions, Affidavit of Illinois Business Office, Apprenticeship or Training Program Certification, and Contract Bond hereto attached, and the Plans for Section _____ (Section Number) in _____ (Local Public Agency), approved by the Illinois Department of Transportation on _____ (Date), are essential documents of this contract and are a part hereof.

4. IN WITNESS WHEREOF, the said parties have executed this contract on the date above mentioned.

Attest: The _____ (Local Public Agency Type) of _____ (Name of Local Public Agency)

Clerk Signature & Date

(SEAL, if required by the LPA)

Party of the First Part Signature & Date

By:

(If a Corporation)

Corporate Name

President, Party of the Second Part Signature & Date

By:

(SEAL, if required by the LPA)

(If a Limited Liability Corporation)

LLC Name

Manager or Authorized Member, Party of the Second Part

By:

(If a Partnership)

Partner Signature & Date

Attest:

Secretary Signature & Date

Partner Signature & Date

Partners doing Business under the firm name of

(SEAL, if required by the LPA)

Party of the Second Part

(If an individual)

Party of the Second Part Signature & Date

VILLAGE OF HOFFMAN ESTATES
PAYMENT AND PERFORMANCE
SURETY BOND

BOND NO.	**DATE BOND EXECUTED:**
PRINCIPAL:	**BOND AMOUNT:** **(written out & numerically)**
CO-PRINCIPAL(S):	**CONTRACT DOCUMENTS:**
SURETY(IES):	**PROJECT:**

KNOW ALL MEN BY THESE PRESENTS, that we, the Principal(s) and Surety(ies) hereto, recite and declare that:

1. The Principal(s) and Surety(ies) on this bond agree that all undertakings, covenants, terms, conditions and agreements of the Contract Documents listed above and incorporated herein by reference will be performed and fulfilled and to pay all persons, firms and corporations having contracts with the principal or with subcontractors, all just claims due to them under the provisions of such contracts for labor performed or materials furnished in the performance of the Contract on account of which this bond is given.

2. We are held and firmly bound to the obligee Village of Hoffman Estates, Illinois (hereinafter called "Village"), in the sum written above in lawful money of the United States of America, to be paid to the Village, its successors or assigns, for the payment whereof Principal(s), Co-Principals and Surety(ies) bind themselves, their heirs, executors, administrators, successors and5. assigns, jointly and severally, firmly by this Bond. a)

3. The condition of this Bond is that if the Principal shall in every respect perform all of its obligations under the Contract Documents identified above, which Contract Documents are incorporated herein by reference, then this Bond shall be void; otherwise, the Bond shall continuously remain in full force and effect until released by the Village. Contract Documents shall also include any agreements, bid documents, specifications, engineering, design, or construction requirements or other Village documents associated with the Project, including any laws, ordinances and/or governmental regulations related to the Project.

4. Surety waives all of its surety defenses including, but not limited to, the following:

a) It shall be the duty of the Principal to notify the Surety of any revision of the plans, profiles and specifications referred to in the Contract Documents. The Surety expressly waives any right to receive notice from the obligee or to review or approve any revisions to the plans, profiles and specifications referred to in the Contract Documents which are required to meet governmental standards. No such revisions of any kind in the work shall in any way affect the obligation of the Surety under this Bond;

b) Any extension or reduction of time beyond the period provided for in the Contract Documents for completion of its obligations under the Agreement shall in no way affect the obligation of the Surety under this Bond;

c) The failure or refusal of Village to take any action, proceeding, or steps to enforce any remedy or exercise any right under the Contract Documents, or that taking of any action, proceeding, or step by Village, acting in good faith upon the belief that same is permitted by the provisions of the Contract Documents, shall not in any way release Principal or Surety, or either of them, or their respective executors, administrators, successors, or assigns, from liability under this Bond. Surety hereby waives notice of any amendment, indulgence made, granted or permitted;

d) The Principal, Co-Principal and Surety intend that each provision of this Bond be valid and binding upon them and expressly agree to abide thereby;

e) In the event of a default of this Bond, the Village may terminate whatever rights Principal, Co-Principal and/or Surety may have to perform further work on the Project.

f) The requirement of any other entity to perform any obligations contained in the Contract Documents shall in no way affect the obligations of the Surety under this Bond.

4. Default:

A default shall be deemed to have occurred on the part of the Principal if Principal shall fail to complete its obligations under the Contract Documents within the time set forth therein or any extensions thereof; or, prior to the expiration of such period, if in the sole judgment of the Village, the Principal has:

A) abandoned the performance of its obligations under the Contract Documents; or
B) failed to pay all persons, firms and corporations having contracts with the principal or with subcontractors, all just claims due to them under the provisions of such contracts for labor performed or materials furnished in the performance of the Contract Documents; or
C) renounced or repudiated its obligations under the Contract Documents; or
D) clearly demonstrated through insolvency, or otherwise, that its obligations under the Contract Documents cannot be completed within the time allotted under the Contract Documents.

If the Principal defaults in the performance of all or any part of the obligations specified in the Contract Documents, the Village shall give written notice of the default to the Surety, with a copy to the Principal and Co-Principal, if any. In the event of such default and notice, Surety shall, within 45 days of receipt of the default notice, give written notice to the Village stating whether Surety will assume the Contract Document obligations and the obligations of the Principal, and should it elect to assume said obligations, Surety shall be required to complete the obligations specified in the Contract Documents according to its terms and provisions within 180

days of said notice, but not before expiration of the period provided for under the Contract Documents and approved extensions thereof. In the event that Surety elects to assume the obligations of Principal as provided herein and thereafter fails to faithfully perform all or any part of the work, or should it unnecessarily delay all or any part of the work, then the Village may proceed as provided in Paragraph No. 5 of this Bond.

6. Should Surety following notice of default notify the Village that Surety elects not to assume the obligations of Principal under the Contract Documents, or fails within 45 days of receipt of the default notice as provided in Paragraph No. 4) above to notify the Village whether Surety elects to assume the obligations of Principal under the Contract Documents, or having elected to assume the obligations of Principal, should it then fail to perform, then in any event the Village may elect any of the following procedures or any combination thereof:

a) Terminate whatever rights the Principal, Co-Principal and/or Surety may have to perform further work on the Project;

b) Take over or relet all or any part of the work under the Contract Documents which is not completed and complete the same for the account and at the expense of the Principal and Surety, who shall be jointly and severally liable to Village for the costs incurred in completion of the obligations under the Contract Documents and/or correction thereof. Such costs as identified in the Contract Documents shall include, but not be limited to, construction, engineering, surveying, maintenance, donations, impact fees, deterioration, administration, supervision, reasonable attorney's fees, and any costs associated or related to any litigation of the Bond agreement and shall be adjusted for inflation. The amount of Village's actual costs for completion and/or correction of the work required under the Contract Documents shall be conclusive of the extent of the liability of Principal and Surety and may exceed the Bond Amount;

c) Require the Surety to pay the Bond Amount to the Village as liquidated damages.

7. Should Surety, following notice of default notify the Village within 45 days of the receipt of the default notice choose to pay the Village for completion of the obligation under the Contract Documents, the Surety shall have the right to demand that the Village state a sum constituting the estimated costs at that time, of completion and/or correction of the work required under the Contract Documents, such as costs as defined in Paragraph No. 5b). Surety shall then immediately pay over to the Village the sum so stated and be released from any further obligations under this Bond. If funds are paid over under this section and the paid over funds are not sufficient to complete the work, the Village's sole remedy shall be to proceed against the Principal(s) and Co-Principals for any deficiency. If there are any paid over funds not necessary for completion of the work, the Village will return the excess to Surety after completion of the work.

8. If any action or proceeding is initiated in connection with this Bond and any and all obligations arising hereunder the venue thereof shall be in State Court in the County of Cook, State of Illinois, it is further understood and agreed that this contract shall be governed by the laws of the State of Illinois, both as to interpretation and performance.

9. All notices sent to the Principal(s), Co-Principals, and Surety(ies) shall be sent to the address set forth on the signature page unless said Principal(s), Co-Principal(s) and Surety(ies) notify the Village in writing of any change. If the addresses of any of the Principal(s), Co-Principal(s) and Surety(ies) change, the Principal(s), Co-Principal(s) or Surety(ies) shall immediately notify the Village in writing of such change. Failure to notify the Village of any change in address is deemed to be a waiver of any requirement for notice under this Bond to the Principal(s), Co-Principal(s) or Surety(ies). All written notices to the Village required under the Bond shall be sent certified mail to the Village Clerk.

10. If any one or more of the provisions of this Bond are determined to be illegal or unenforceable by a court of competent jurisdiction, all other provisions shall remain effective.

11. No party other than the Village shall have any rights under this Bond as against the Surety.

12. As part of the obligation secured hereby and in addition the Bond Amount specified herein, there shall be included costs, interest and reasonable expenses and fees (including, without limitation, attorneys' fees and costs), incurred by the Village in enforcing this agreement, to be awarded by the court.

13. Nonpayment of the premiums associated with this Bond will not invalidate this Bond nor shall Village be obligated for the payment thereof. Surety agrees to deliver written notice of non-payment under this Bond or other actions to the Village.

14. Surety waives its right to trial by jury.

IN WITNESS WHEREOF, the parties have caused this Agreement to be signed and sealed as of the day and year set forth above.

PRINCIPAL

Type of Organization:

_____

State of Incorporation:

_____

Legal Name of Organization:

_____
_____
_____
_____

Address:

_____
_____
_____

Authorized Signature(s):

By:_____ By:_____
Signature Signature

_____ _____
(Type name and title) (Type name and title)

ACKNOWLEDGMENT OF PRINCIPAL(S)

STATE OF _____:
COUNTY/CITY OF_____:

I, _____ Notary Public in and for the State and County/City aforesaid, do hereby certify that _____ _____ whose name is signed to the foregoing bond, this day personally appeared before me in my State and County/City aforesaid and acknowledged the same.

Given under my hand this _____ day of _____, _____.
My commission expires:_____ _____
NOTARY PUBLIC

Surety:_____
Bond No.:_____

CO-PRINCIPAL(S)

Type of Organization: _____

State of Incorporation: _____

Legal Name of Organization: _____

Address: _____

Authorized Signature(s):

By: _____ By: _____
Signature Signature

_____ _____
(Type name and title) (Type name and title)

ACKNOWLEDGMENT OF CO-PRINCIPAL(S)

STATE OF _____:
COUNTY/CITY OF _____:

I, _____ Notary Public in and for the State and County/City aforesaid, do hereby certify that _____ whose name is signed to the foregoing bond, this day personally appeared before me in my State and County/City aforesaid and acknowledged the same.

Given under my hand this _____ day of _____, _____.
My commission expires: _____ _____
NOTARY PUBLIC

Surety: _____
Bond No.: _____

CORPORATE SURETY

Type of Organization: _____

Liability Limit: _____

Legal Name and Address: _____

Address: _____

Authorized Signature(s):

By: _____ By: _____
Signature Signature

_____ _____
(Type name and title) (Type name and title)

ACKNOWLEDGMENT OF CORPORATE SURETY(S)

STATE OF _____:
COUNTY/CITY OF _____:

I, _____ Notary Public in and for the State and County/City aforesaid, do hereby certify that _____ _____ whose name is signed to the foregoing bond, this day personally appeared before me in my State and County/City aforesaid and acknowledged the same.

Given under my hand this _____ day of _____, _____.
My commission expires:_____ _____
NOTARY PUBLIC

Surety:_____
Bond No.:_____