Division of Transportation

Paula J. Trigg, P.E.
Director of Transportation/County Engineer

600 West Winchester Road
Libertyville, Illinois 60048-1381
Phone 847 377 7400
Fax 847 984 5888

April 5, 2016

ADDENDUM #1
21st Street & Kenosha Road Resurfacing, Wadsworth Road Landscaping
SECTION 15-00999-18-RS
Lake County Division of Transportation
Opening Time and Date:
Tuesday, April 12, 2016; 10:00 a.m.

To all bidders:

Please remove the following pages of the Bid Package documents and replace them with the attached revised pages:

- Contract Specifications, All Sheets
  - The entire document has been updated to correct missing page numbers.
- Contract Plans, Sheets 11, 31, 46, & 47
  - The proposed storm sewer manhole located at the SW corner of 21st Street and Kenosha Road (21st Street Widening) has been relocated to accommodate the new duct bank being installed by AT&T.

Note that these revisions do not result in any pay item or quantity changes.

Very truly yours,

Michael G. Zemaitis, P.E.
Engineer of Design

RETURN WITH BID

Illinois Department of Transportation

Local Public Agency Formal Contract Proposal

PROPOSAL SUBMITTED BY		
Contractor's Name		
Street		P.O. Box
City	State	Zip Code

STATE OF ILLINOIS

COUNTY OF LAKE

(Name of City, Village, Town or Road District)

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE NO. 21st Street, Kenosha Road & Wadsworth Road

SECTION NO. 15-00999-18-RS

TYPES OF FUNDS **MFT, MT**

☒ SPECIFICATIONS (required) ☒ PLANS (required)

For Municipal Projects

Submitted/Approved/Passed

Not Applicable

☐ Mayor ☐ President of Board of Trustees ☐ Municipal Official

Date

Department of Transportation

☒ Released for bid based on limited review

P.J. Nagy / AG

Regional Engineer

County Engineer on behalf of IDOT pursuant to Agreement of Understanding dated January 18, 2013

3/16/16

Date

For County and Road District Projects

Submitted/Approved

Not Applicable

Highway Commissioner

Date

Submitted/Approved

P.J. Nagy / AG

County Engineer/~~Superintendent of Highways~~

3/16/16

Date

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

NOTICE TO BIDDERS

County LAKE
Local Public Agency LCDOT
Section Number 15-00999-18-RS
Route CH 67, 53 &17

Sealed proposals for the improvement described below will be received at the office of The County Engineer of Lake County, 600 West Winchester Road, Libertyville, IL 60048 (Address) until 10:00 A.M. (Time) on April 12, 2016 (Date)

Sealed proposals will be opened and read publicly at the office of The County Engineer of Lake County 600 West Winchester Road, Libertyville, IL 60048 (Address) at 10:00 A.M. (Time) on April 12, 2016 (Date)

DESCRIPTION OF WORK

Name 21st St, Kenosha Rd Resurfacing & Wadsworth at Sheridan Length: 7217.00 feet (1.37 miles)

Location 21st Street - Green Bay Road to Kenosha Rd; Kensoha Road - Cypress Dr. to 21st Street; Wadsworth at Sheridan

Proposed Improvement HMA surface removal, class D pavement patching, HMA leveling binder, binder and surface course, earth excavation, full depth HMA pavement, drainage items, landscape, thermoplastic pavement markings and related items.

1. Plans and proposal forms will be available online at http://www.lakecountyil.gov/Transportation/Business/Bids-Roadwork.htm or at the office of the Lake County Division of Transportation, 600 West Winchester Road, Libertyville, IL 60048 (Address)
2. ☒ Prequalification
   If checked, each bidder shall include a completed "Affidavit of Availability" (Form BC 57), in their proposal, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work.
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 Forms shall be returned by the bidder to the Awarding Authority (not required if crossed out):
   a. BLR 12200: Local Public Agency Formal Contract Proposal (includes BLR 12200a Schedule of Prices)
   b. BC 57: Affidavit of Availability
   c. BC 261: Substance Abuse Prevention Program Certification
   d. BLR 12230: Proposal Bid Bond
   e. BLR 12325: Apprenticeship or Training Program Certification
   f. BLR 12326: Affidavit of Illinois Business Office
   g. LCDOT – CBID Printout
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.

PROPOSAL

County LAKE
Local Public Agency LCDOT
Section Number 15-00999-18-RS
Route CH 67, 53 & 17

1. Proposal of _____

for the improvement of the above section by the construction of HMA surface removal, class D pavement patching, HMA leveling binder, binder and surface course,earth excavation, full depth HMA pavement, drainage items, landscape, thermoplastic pavement markings and related items.

a total distance of 7217 feet, of which a distance of 7217 feet, (1.37 miles) are to be improved.

2. The plans for the proposed work are those prepared by LCDOT and approved by the Department of Transportation* on March 16, 2016

   **** County Engineer on behalf of IDOT pursuant to Agreement of Understanding dated January 18, 2013.***

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 52 working days or by XXXXXXXXXXXXXXXXX unless additional time is granted in accordance with the specifications.
6. 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:

   _____ Treasurer of LAKE COUNTY

   The amount of the check is the same as the amount of the BID BOND (_____).

7. In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must be equal to the sum of the proposal guaranties, which would be required for each individual proposal. If the proposal guaranty check is placed in another proposal, it will be found in the proposal for: Section Number_____.
8. 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 or check shall be forfeited to the Awarding Authority.
9. 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 product 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.
10. A bid will be declared unacceptable if neither a unit price nor a total price is shown.
11. The undersigned submits herewith the schedule of prices on ~~BLR 12200a~~ the LCDOT CBID printout covering the work to be performed under this contract.
12. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on ~~BLR 12200a~~ the LCDOT CBID printout, 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.

Illinois Department of Transportation

SCHEDULE OF PRICES

County LAKE
Local Public Agency LCDOT
Section 15-00999-18-RS
Route CH 67, 53 & 17

Schedule for Multiple Bids

Combination Letter	Sections Included in Combinations	Total

Schedule for Single Bid

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

Bidder's Proposal for making Entire Improvements	

Item No.	Items	Unit	Quantity	Unit Price	Total

County	LAKE
Local Public Agency	LCDOT
Section Number	15-00999-18-RS
Route	CH 67, 53 & 17

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 Deliquency.** 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 procedures established by the appropriate revenue Act, its liability for the tax or the amount of 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 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 in behalf of the corporation.

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

3. **Bribery.** The bidder or contractor or subcontractor, respectively, certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois or any unit of local government, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.

4. **Interim Suspension or Suspension.** The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart I of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative Code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be cancelled.

County LAKE
Local Public Agency LCDOT
Section Number 15-00999-18-RS
Route CH 67, 53 & 17

SIGNATURES

(If an individual)

Signature of Bidder _____

Business Address _____

(If a partnership)

Firm Name _____

Signed By _____

Business Address _____

Inset Names and Addressed of All Partners _____

(If a corporation)

Corporate Name _____

Signed By _____
President

Business Address _____

Insert Names of Officers
President _____
Secretary _____
Treasurer _____

Attest: _____
Secretary

Illinois Department of Transportation

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

Affidavit of Availability

For the Letting of April 12, 2016

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	
Contract Number						
Contract With						
Estimated Completion Date						
Total Contract Price						Accumulated Totals
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.

						Accumulated Totals
Earthwork						
Portland Cement Concrete Paving						
HMA Plant Mix						
HMA Paving						
Clean & Seal Cracks/Joints						
Aggregate Bases & Surfaces						
Highway, R.R. and Waterway Structures						
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					

I, being duly sworn, do hereby declare that 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.

Subscribed and sworn to before me

this _____ day of _____ , _____ Type or Print Name _____

Officer or Director Title

_____ Signed _____

Notary Public

My commission expires _____

Company _____

(Notary Seal)

Address _____

_____

Illinois Department of Transportation

Substance Abuse Prevention Program Certification

Letting Date: April 12, 2016 Item No.: _____

Contract No.: _____

Route: CH 67, 53 & 17

Section: 15-00999-18-RS

Job No.: _____

County: LAKE

The Substance Abuse Prevention on Public Works Act, Public Act 95-0635, prohibits the use of drugs and alcohol, as defined in the Act, by employees of the Contractor and by employees of all approved Subcontractors while performing work on a public works project. The Contractor/Subcontractor herewith certifies that it has a superseding collective bargaining agreement or makes the public filing of its written substance abuse prevention program for the prevention of substance abuse among its employees who are not covered by a collective bargaining agreement dealing with the subject as mandated by the Act.

A. The undersigned representative of the Contractor/Subcontractor certifies that the contracting entity has signed collective bargaining agreements that are in effect for all of its employees, and that deal with the subject matter of Public Act 95-0635.

_____
Contractor/Subcontractor

_____
Name of Authorized Representative (type or print)

_____
Title of Authorized Representative (type or print)

_____ _____
Signature of Authorized Representative Date

B. The undersigned representative of the Contractor/Subcontractor certifies that the contracting entity has in place for all of its employees not covered by a collective bargaining agreement that deals with the subject of the Act, the attached substance abuse prevention program that meets or exceeds the requirements of Public Act 95-0635.

_____
Contractor/Subcontractor

_____
Name of Authorized Representative (type or print)

_____
Title of Authorized Representative (type or print)

_____ _____
Signature of Authorized Representative Date

Illinois Department of Transportation

Local Agency Proposal Bid Bond

Route CH 67, 53 & 17
County LAKE
Local Agency LCDOT
Section 15-00999-18-RS

RETURN WITH BID

PAPER BID BOND

WE _____ as PRINCIPAL,

and _____ as SURETY,

are held jointly, severally and firmly bound unto the above Local Agency (hereafter referred to as "LA") 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 LA 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 LA 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 LA 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 LA determines the PRINCIPAL has failed to enter into a formal contract in compliance with any requirements set forth in the preceding paragraph, then the LA 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 _____

Principal

_____ (Company Name) _____ (Company Name)

By: _____ (Signature and Title) By: _____ (Signature and Title)

(If PRINCIPLE 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) By: _____ (Signature of Attorney-in-Fact)

STATE OF ILLINOIS,

COUNTY OF _____

I. _____, a Notary Public in and for said county,

do hereby certify that _____

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

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

Given under my hand and notarial seal this _____ day of _____

My commission expires _____ _____ (Notary Public)

ELECTRONIC BID BOND

☐ **Electronic bid bond is allowed (box must be checked by LA 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 LA 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 and Title) _____ Date

Illinois Department of Transportation

Apprenticeship or Training Program Certification

Return with Bid

Route	CH 67, 53 & 17
County	LAKE
Local Agency	LCDOT
Section	15-00999-18-RS

All contractors are required to complete the following certification:

☒ For this contract proposal or for all groups in this deliver and install proposal.

☐ For the following deliver and install 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 bidders' 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:

I. Except as provided in paragraph IV 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.

II. The undersigned bidder further certifies for work to be performed by subcontract that each of its subcontractors submitted for approval 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.

III. 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.

_____

_____

_____

_____

_____

IV. Except for any work identified above, any bidder or subcontractor that 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 workforce 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 after award 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: _____ By: _____
(Signature)

Address: _____ Title: _____

RETURN WITH BID

Illinois Department of Transportation

Affidavit of Illinois Business Office

County LAKE
Local Public Agency LCDOT
Section Number 15-00999-18-RS
Route CH 67, 53 & 17

State of _____)
) ss.
County of _____)

I, _____ of _____ , _____ ,
(Name of Affiant) (City of Affiant) (State of Affiant

being first duly sworn upon oath, states 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 this proposal, _____ , will maintain a
(bidder)

business office in the State of Illinois which will be located in _____ County, Illinois.

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)

_____
(Print Name of Affiant)

This instrument was acknowledged before me on the day of _____ , _____ .

(SEAL)

_____
(Signature of Notary Public)

CONTRACTOR

PLEASE REPLACE WITH YOUR COMPLETED LCDOT CBID PRINTOUT

SPECIAL PROVISION

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SPECIAL PROVISIONS

The following Special Provisions supplement the specifications listed in the table below, which apply to and govern the proposed improvement designated as Lake County Section **15-00999-18-RS**, and in case of conflict with any part or parts of said specifications, the said Special Provisions shall take precedence and govern.

SPECIFICATION	ADOPTED/DATED
Standard Specifications for Road and Bridge Construction	January 1, 2016
Manual on Uniform Traffic Control Devices for Streets and Highways Illinois Supplement	2009 Edition June 2014 Revision
Supplemental Specifications and Recurring Special Provisions (indicated on the Check Sheet included herein)	January 1, 2016
Standard Specifications for Water and Sewer Construction in Illinois	7th Edition, 2014

This Project Does Include a Separate Set of Plans.

LOCATION OF IMPROVEMENT

This project is located on 21st Street from Green Bay Road east to east of Kenosha Road, on Kenosha Road from Cypress Drive to 21st Street, and on Wadsworth Road at Sheridan Road.

DESCRIPTION OF IMPROVEMENT

This work consist of the hot-mix asphalt resurfacing of 21st Street and Kenosha Road. The work including HMA surface removal, class D pavement patching, the placement of HMA leveling binder, HMA binder and HMA surface courses, thermoplastic pavement markings, and other related items. Shepherds Point access improvement on 21st Street includes tree removal, earth excavation, perimeter erosion barrier installation and removal, full depth HMA pavement, curb and gutter removal and replacement, storm sewer pipe and structure installation, culvert pipe removal and replacement, seeding and other related items. Additionally work at Wadsworth Road at Sheridan Road includes median landscaping.

DIVISION 100. GENERAL REQUIREMENTS AND COVENANTS

SECTION 102 ADVERTISEMENT, BIDDING, AWARD AND CONTRACT EXECUTION (LCDOT)

Effective: January 1, 2007
Revised: March 20, 2015

Award and execution of contract shall be in accordance with Section 102 of the "Standard Specifications" and the following:

Insurance certificates *shall be received within* ***five (5) days*** *after the contract has been mailed to the bidder. Contract performance and payment* ***bond*** *shall be received within* ***ten (10) days*** *after the contract has been mailed to the bidder. The contract shall be executed by the successful bidder and returned within fifteen (15) days after the contract has been mailed to the bidder.*

CONTRACTORS and SUBCONTRACTORS holding a ***5 – HMA Paving IDOT prequalification*** *shall be limited to paving on contracts with 1200 total tons or less. The 1200 ton limit does not include HMA sidewalk, driveways, medians, paved shoulder behind curb, and/or patching.*

In order to limit bid proposal math errors, all bids for this project **shall** be submitted using the CBID spreadsheet. The Contractor shall include in their bid proposal a hardcopy CBID printout. Proposals submitted without a hardcopy CBID printout will be rejected as nonresponsive and returned to the Contractor unread. Proposals submitted with a handwritten schedule of items will be rejected as nonresponsive and returned to the Contractor unread. A maximum of five pay items may have legible pen and ink entries/revisions to the unit and extended prices on the CBID printout to accommodate last minute supplier and subcontractor quotes. A legible pen and ink entry/revision to the project total bid will also be allowed.

To decrease LCDOT bid processing time, for projects with 25 or more pay items the Contractor shall include in their sealed bid envelope a CD with a copy of the completed CBID. The hardcopy CBID printout will serve as the bid submission, while the CD is only provided to aid in tabulating the bids. In the event that there is a difference between the hardcopy CBID printout and the electronic copy provided on the CD, the hardcopy CBID printout shall take precedence and be used to complete the bid tabulation.

If the Contractor is bidding on more than one project for which the CD copy of the CBID is required, the Contractor may include all the CBIDs on a single CD. The CD shall be clearly labeled with the Contractor's name and the project CBIDs included. The single CD shall be submitted in the sealed bid envelope of one of the projects the Contractor is bidding on.

ARTICLE 105.03(c) ENVIRONMENTAL PERMITTING AGENCIES

Effective: December 22, 2014

Add the following paragraph to Article 105.03 of the "Standard Specifications"

(c) Permitting Agency Deduction: Any monetary payment required from a permitting agency related to improper erosion and sediment control may be passed along to the Contractor as a deduction from future pay estimates. Monetary payments will include fees and violations attributable to the Contractor's actions or inaction resulting in improper erosion and sediment control. The deduction will be applied to monies due or that might become due to the Contractor. Permitting agencies include the Lake County Stormwater Management Commission, the Illinois Environmental Protection Agency, the Army Corps of Engineers, and other regulatory agencies.

ARTICLE 105.09 SURVEY CONTROL POINTS (LCDOT)

Effective: January 1, 2007
Revised: June 6, 2014

The Contractor shall furnish the Engineer with the materials required to establish survey control points according to Article 105.09 of the "Standard Specifications" and the following:

Paint: *The Contractor shall furnish, at their expense, white, pink or purple pavement marking paint in aerosol cans, for use by the Engineer. The quality of the marking paint shall be as manufactured by Aervoe-Pacific Co. (distributed by Municipal Marking Distributors, Inc., Dundee, IL) or approved equal.*

Paint: *The Contractor shall furnish, at their expense, white, pink or purple pavement marking paint in aerosol cans, for use by the Engineer. The paint shall last up to 6 months; be non-freezing, be functional to 14°F; and be fully operational in an inverted position.*

The Contractor and subcontractors shall only use white, pink or purple colors for their own markings. At no time will the Contractor use any of the J.U.L.I.E. utility colors listed in Article 107.31 of the "Standard Specifications".

Hubs: *The Contractor shall furnish, at their expense, hubs for use by the Engineer according to the following:*

1. *Shall be 1 ⅜" x ⅞" x 18" (actual dimension).*
2. *Shall be furnished in securely banded (on each end) bundles of 25 pieces.*

3. *The material shall be kiln dried Douglas fir, oak or maple and surfaced on the 2 larger sides and without splits, pitch pockets, wane, knots or decayed wood.*
4. *The tapered end on each hub shall be pencil point tapered.*

Lath: *The Contractor shall furnish, at their expense, lath for use by the Engineer according to the following:*

1. *Shall be 1 ⅛" x ½" x 48" (actual dimension).*
2. *Shall be furnished in securely banded (on each end) bundles of 50 pieces.*
3. *The material shall be kiln dried Douglas fir, oak or maple and surfaced on the 2 larger sides and without splits, pitch pockets, wane, knots or decayed wood.*
4. *The tapered end may be saw-cut tapered or pencil tapered.*

ARTICLE 106.03 SAMPLES, TESTS, AND CITED SPECIFICATIONS (LCDOT)

Effective: October 1, 2012
Revised: May 19, 2014

Hot-Mix Asphalt and Concrete Placements:

The Contractor shall notify the Engineer of proposed Hot-Mix Asphalt (HMA) and/or concrete placements according to the following:

1. By 2 p.m., the Contractor shall notify the Engineer, in person or by phone, of HMA and/or concrete placements proposed for the next working day. Upon receiving the Engineer's approval, the Contractor may schedule the HMA and/or concrete for placement. Requests for HMA and/or concrete placements called in after 2 p.m., cannot be placed for payment and should not be scheduled by the Contractor.

2. The Contractor's notification shall provide the following:
   a. A firm start time.
   b. The plant source of material.
   c. The pay items included.
   d. The project name and location - be specific on large projects.
   e. The estimated quantity of HMA and/or concrete to be used.
   f. The duration of the work.

3. In the event that the Engineer cannot be reached, the Contractor can meet the notification requirement by calling the LCDOT Materials Lab at (847) 377-7493 and leaving the notification message prior to 2 p.m. LCDOT will call the Contractor back and give approval for the next day's work. The Contractor must receive approval prior to scheduling the work for payment.

4. Cancellations due to weather or other good, unforeseen reasons need to be relayed to the Engineer and the LCDOT Materials Lab at (847) 377-7493, ASAP! Repeated cancellations without sufficient notice and/or for no good reason, in the opinion of the Engineer, will lead to a deduction for any incurred County Material Consultant costs from future pay estimates.

Concrete Test Cylinders:

The Contractor shall not transport concrete cylinders until a minimum of 8 hours have elapsed after the final set. Concrete cylinders shall be transported prior to 48 hours for standard curing. The cylinders will be transported within the above time frame, regardless of what day of the week the cylinders were cast.

A sufficient quantity of cylinders shall be cast to provide for an additional break beyond the specified break requirements. Until QC & QA (LCDOT) have confirmed that proper strength has been obtained for the specified break, QC will retain at least two additional 6" x 12" cylinders or three 4" x 8" cylinders for average strength. In the event the cylinder breaks fail to reach the required strength, according to Article 1020 of the "Standard Specifications", the two additional 6" x 12" cylinders or three 4" x 8" cylinders will be broken at a later date determined by LCDOT.

PROTECTION OF EXISTING DRAINAGE FACILITIES DURING CONSTRUCTION (LCDOT)

Effective: May 19, 2014

All existing drainage structures shall be kept free of debris resulting from construction operations. All work and material necessary to prevent accumulation of debris in the drainage structures will be considered as included in the unit bid prices of the inlet protection, inlet filters and other temporary erosion control measures. Any debris in the drainage structures resulting from construction operations shall be removed at the Contractor's own expense, and no extra compensation will be allowed.

Should reconstruction or adjustment of a drainage structure be required by the Engineer in the field, the necessary work and payment shall be done according to Section 602 and Article 104.02 respectively of the "Standard Specifications".
During construction, if the Contractor's forces encounter or otherwise becomes aware of any sewers, underdrains or field drains within the right-of-way other than those shown on the plans, they shall inform the Engineer. The Engineer shall direct the work necessary to maintain or replace the facilities in service, and to protect them from damage during construction if maintained. Existing facilities to be maintained that are damaged because of non-compliance with this provision shall be replaced at the Contractor's own expense. Should the Engineer direct the replacement of a facility, the necessary work and payment shall be done in accordance with Section 550, Section 601 and Article 104.02 respectively of the "Standard Specifications".

ARTICLE 107.09 PUBLIC CONVENIENCE AND SAFETY (LCDOT)

Effective: January 1, 2007
Revised: March 20, 2015

The Contractor shall limit public inconveniences and safety conflicts according to Article 107.09 of the "Standard Specifications" and the following:

Keeping Roads Open to Traffic:

For this project the Contractor shall maintain traffic according to the Maintenance of Traffic Plan shown on the plans. The Contractor shall limit flagging operations affecting the open lanes i.e. flagging for vehicles entering or leaving the construction site etc…, to the following times:

Monday - Friday	*9:00 am*	*to*	*3:00 pm*

At all other times, including periods of no construction activity, the Contractor shall maintain the available traffic lanes.

If local and/or area conditions warrant the above times may be adjusted (i.e. lengthened or shortened) by the Engineer. To request a change the Contractor shall submit to the Engineer a plan including the revised start and end time a minimum of 48 hours prior to the proposed revision. The Engineer will notify the Contractor 24 hours in advance with an approval or disapproval.

If the Contractor fails to provide a plan and/or the Contractor disregards the decision by of the Engineer the Traffic Control Deficiency Charge will be applied as stated in the Special Provisions for Traffic Control and Protection.

Safety and Convenience: *The Contractor shall maintain entrances along the proposed improvement. Interference with traffic movements and inconvenience to owners of abutting property and the public shall be kept to a minimum. Any delays or inconveniences caused by the Contractor, by complying with these requirements shall be considered as included in the unit bid prices of the contract and no additional compensation will be allowed.*

Contractors shall plan their work so that there will be no open holes in the pavement and that all barricades will be removed from the roadway during non-working hours, except where required for public safety.

Steel road plates may be used as temporary cover over excavations. Anytime steel road plates are in the roadway these requirements apply:

- *The steel road plate shall sit flat on the pavement and be free of defects and warping*
- *It shall be shimmed with a non-asphaltic material to prevent vertical movement*
- *If the steel road plate is not under constant surveillance, it shall be pinned to prevent horizontal movement by a minimum of 6 pins; 4 pins predrilled into the corners of the plates and 1 pin predrilled into each side parallel to the trench. Pins shall be drilled 3 inches into the pavement and not protrude above the pavement surface*
- *The steel road plate shall be at least 1 inch thick and large enough to allow a minimum of 1 foot of bearing on each side of the trench*
- *A one foot wide HMA surface course ramp shall be placed around the perimeter of the plate*
- *Multiple steel road plates shall be tack welded together to prevent separation if they are not under constant surveillance*
- *Appropriate advanced warning signs (W8-24 "STEEL PLATE AHEAD" and W8-1 "BUMP") are required*

Steel road plates may be left in place overnight, in emergency situations and with the concurrence of the Engineer. Steel road plates left in place overnight shall be attached to the roadway by a minimum of 6 pins; 4 pins predrilled into the corners of the plates and 1 pin predrilled into each side parallel to the trench. Pins shall be drilled 3 inches into the pavement and not protrude above the pavement surface.

Steel road plates left in-place for more than 72 hours, shall also be:

- *Recessed into the street surface the thickness of the steel road plate with no difference in elevation with the existing surface*
- *Secured in-place to prevent horizontal movement with HMA surface course between the existing pavement vertical edge and the steel road plate*

Road plates shall not be used from November 15th to April 15th without approval from the Engineer.

ARTICLE 107.20 PROTECTION AND RESTORATION OF PROPERTY (LCDOT)

Effective: January 1, 2007
Revised: May 19, 2014

The Contractor shall protect and restore property according to Article 107.20 of the "Standard Specifications" and the following:

Trees and Shrubs: *Extra care shall be exercised when operating equipment around trees or shrubs. Injured branches or roots shall be pruned in a manner satisfactory to the Engineer and shall be painted where the cut was made. Roots exposed during excavating operations shall be neatly pruned and covered with topsoil. This work shall be done as soon as possible and shall be considered as included in the unit bid price(s) of the various excavation (e.g. Earth Excavation, Excavating and Grading Existing Shoulder, Structure Excavation, Furnished Excavation etc...) and excavation related (e.g. Storm Sewers, Grading and Shaping Ditches, Concrete Foundations, etc...) work items shown in the Summary of Quantities. No additional compensation will be allowed this work.*

ARTICLE 107.23 PROTECTION OF STREAMS, LAKES, RESERVOIRS, NATURAL AREAS, WETLANDS, PRAIRIE AREAS, SAVANNAHS, AND ENDANGERED AND THREATENED SPECIES (LCDOT)

Effective: April 1, 2008
Revised: May 19, 2014

CONCRETE WASHOUT FACILITY

Description: The Contractor shall take sufficient precautions to prevent pollution of streams, lakes, reservoirs, and wetlands with fuels, oils, bitumens, calcium chloride, or other harmful materials according to Article 107.23 of the "Standard Specifications".

General: *To prevent pollution by residual concrete and/or the by product of washing out the concrete trucks, concrete washout facilities shall be constructed and maintained on any project which includes cast-in-place concrete items. The concrete washout shall be constructed, maintained, and removed according to this special provision and LCDOT standard LC4202 included in these plans. Concrete washout facilities shall be required on all projects regardless of the need for NPDES permitting. On projects requiring NPDES permitting, concrete washout facilities shall also be addressed in the Storm Water Pollution Prevention Plan.*

The concrete washout facility shall be constructed on the job site according to LC4202. The Contractor may elect to use a pre-fabricated portable concrete washout structure. The Contractor shall submit a plan for the concrete washout facility, to the Engineer for approval, a minimum of 10 calendar days before the first concrete pour. The working concrete washout facility shall be in place before any delivery of concrete to the site. The Contractor shall ensure that all concrete washout activities are limited to the designated area.

The concrete washout facility shall be located no closer than 50 feet from any environmentally sensitive areas, such as water bodies, wetlands, and/or other areas indicated on the plans. Adequate signage shall be placed at the washout facility and elsewhere as necessary to clearly indicate the location of the concrete washout facility to the operators of concrete trucks.

The concrete washout facility shall be adequately sized to fully contain the concrete washout needs of the project. The contents of the concrete washout facility shall not exceed 75% of the facility capacity. Once the 75% capacity is reached, concrete placement shall be discontinued until the facility is cleaned out. Hardened concrete shall be removed and properly disposed of outside the right-of-way. Slurry shall be allowed to evaporate, or shall be removed and properly disposed of outside the right-of-way. The Contractor shall immediately replace damaged basin liners or other washout facility components to prevent leakage of concrete waste from the washout facility. Concrete washout facilities shall be inspected by the Contractor after each use. Any and all spills shall be reported to the Engineer and cleaned up immediately. The Contractor shall remove the concrete washout facility when it is no longer needed.

Basis of Payment: This work will not be paid for separately, but shall be included in unit bid prices of the various concrete work items(e.g. portland cement concrete pavement; portland cement concrete sidewalk, and combination concrete curb and gutter etc…), shown in the Summary of Quantities.

ARTICLE 107.25 PROTECTION AND RESTORATION OF TRAFFIC SIGNS (LCDOT)

Effective: January 1, 2007
Revised: May 19, 2014

The Contractor shall protect and restore traffic signs within the limits of the project according to Article 107.25 of the "Standard Specifications" and the following:

1. *All signs removed shall be reinstalled 16 feet to 18 feet off the edge of pavement where possible. In curb sections this will vary and will be determined by the Lake County Division of Transportation.*

2. *All single sign installations shall be installed with the bottom of the sign 5 feet above edge of pavement in rural districts, and 7 feet above the edge of pavement in business, commercial or residential districts. On installations having two or more signs, the bottom of the lowest sign shall be 4 feet above edge of pavement.*

3. *All signs replaced will be erected using new "Telespar" system metal bases cut 42" long from 2¼" square material. They are to be driven into solid ground using a pneumatic driver. This work will not be paid for separately but shall be included in the lump sum cost of TRAFFIC CONTROL AND PROTECTION (SPECIAL).*

ARTICLE 107.27 INSURANCE (LCDOT)

Effective: January 1, 2007
Revised: May 19, 2014

The Contractor shall obtain and thereafter keep in force insurance according to Article 107.27 of the "Standard Specifications" and the following:

The minimum Employers Liability limits listed in paragraph 107.27(a)(2) shall be increased to the following limits:

(2) Employers Liability
   a. Each Accident $1,000,000
   b. Disease-policy limit $1,000,000
   c. Disease-each employee $1,000,000

The minimum Commercial General Liability limits listed in paragraph 107.27(b) shall be increased to the following limits along with the addition of a Personal and Advertising Injury Limit:

(1) General Aggregate Limit $4,000,000
(2) Products-Completed Operations Aggregate Limit $4,000,000
(3) Personal and Advertising Injury Limit $1,000,000
(4) Each Occurrence Limit $2,000,000

The minimum Commercial Automobile Liability limit listed in paragraph 107.27(c) shall remain at:

Bodily Injury & Property Damage
Liability Limit Each Occurrence $1,000,000

In addition to the Department, its officers, and employees, coverage shall be provided for Lake County, its agents, officers and employees, named as additional insured under ISO (Insurance Services Office) additional insured endorsement CG 20 26, edition date 07/04 or its equivalent. Coverage shall be provided for Lake County, its officers, agents and employees, all members of Boards, Commissions, Committees, Trustees and Organizations of the County, all volunteers and members of volunteer organizations and other non-paid personnel, including college and high school interns, while acting on behalf of the County. The Contractor's insurance shall be primary and non-contributory.

The contractual liability insurance coverage shall be broad enough to respond to the liability assumed by the Contractor in the following Hold Harmless Clause:

> Hold Harmless Clause
> *The Provider agrees to indemnify, save harmless and defend the County of Lake, its agents, servants, and employees and each of them against and hold it and them harmless from any and all lawsuits, claims, demands, liabilities, losses and expenses, including court costs and attorney's fees, for or on account of any injury to any person, or any death at any time resulting from such injury, or any damage to property, which may arise or which may be alleged to have arisen out of or in connection with the work covered by this contract. The foregoing indemnity shall apply except if such injury, death or damage is caused directly by the willful and wanton conduct of the County of Lake, its agents, servants, or employees or any other person indemnified hereunder.*

In the event the Contractor fails to obtain or maintain any insurance coverage required under this agreement, Lake County may purchase such insurance coverage and charge the expense thereof to the Contractor.

ARTICLE 107.29 OPENING OF SECTION OF HIGHWAY TO TRAFFIC (LCDOT)

Effective: January 1, 2007
Revised: May 19, 2014

Work under construction shall be opened to traffic according to Article 107.29 of the "Standard Specifications" and the following:

The Contractor shall work expeditiously to open traffic lanes closed due to roadwork. The Engineer shall be the sole judge of when a lane is ready to be opened to traffic. The opening of a lane to traffic shall be in accordance to Section 107.29 of the "Standard Specifications".

Roadwork requiring a closure of a lane, which has been opened previously to traffic, will be allowed at the discretion of the Engineer and under the following conditions:

1. *The lane closure shall only be in effect while workers are present in or near the closed lane.*
2. *The closed lane will be reopened to traffic at the end of the workday.*
3. *All traffic control devices pertaining to the lane closure shall be removed from the roadway at the end of the workday.*

SECTION 108 PROSECUTION AND PROGRESS (LCDOT)

Effective January 1, 2007
Revised: May 19, 2014

It is the intent of the County that this project be constructed in an orderly and timely manner. Toward this end, the Contractor shall take special note of the provisions of Article 105.06, Article 108.01 paragraph 2, and Article 108.02 of the "Standard Specifications" which shall be adhered to.

The Contractor shall coordinate all work between their forces and subcontractors to enable completion within the allotted working days.

ARTICLE 108.06 LABOR, METHODS, AND EQUIPMENT

Effective: May 29, 2015

The Contractor and each subcontractor shall meet the requirements of LRS12, Special Provision for Wages of Employees on Public Works except as follows:

The certified payroll(s) submitted by the Contractor and each subcontractor shall be submitted electronically in a PDF format. The accompanying statement signed by the Contractor or subcontractor may be scanned or contain an electronic signature. The documents shall be submitted via e-mailed to the Engineer.

DIVISION 200. EARTHWORK, LANDSCAPING, AND EROSION CONTROL

DIVISION 200 PHOSPHORUS FERTILIZER NUTRIENT BAN (LCDOT)

Effective: January 1, 2009
Revised: May 19, 2014

Phosphorus Fertilizer Nutrient shall not be used on Lake County Highways.

20100XXX TREE REMOVAL (XX) (LCDOT)

Effective: January 1, 2007
Revised: May 19, 2014

Description: This work shall consist of cutting, grubbing, removing and disposing of trees and stumps.

General: The work shall be performed according to Article 201.04 of the "Standard Specifications" and the following:

Cut trees and limbs shall be disposed of within five working days. The cut trees and limbs shall be disposed of according to Article 202.03 of the "Standard Specifications".

Method of Measurement: Tree Removal will be measured for payment according to Article 201.10(b) of the "Standard Specifications".

Basis of Payment: This work will be paid for at the contract unit price per unit diameter for TREE REMOVAL of the size range specified. *The unit price shall include all equipment, materials and labor required to remove and dispose of designated trees and stumps.*

20101200 TREE ROOT PRUNING (LCDOT)

Effective: January 1, 2007
Revised: May 13, 2015

Description: This work shall consist of pruning existing tree roots prior to trenching or excavation operations.

General: The work shall be performed according to Article 201.06 of the "Standard Specifications" and the following:

Before any trenching or excavation in the area of a tree, tree roots shall be cut with appropriate root pruning equipment to a minimum of 24" deep. The cuts shall be made 6" to 12" closer to the tree than the construction limit. This allows for root regeneration (within the 6" to 12"

area) during the construction period. Pruning shall not be done at the construction limit, since the cut surfaces of the roots will remain exposed resulting in root dieback.

The application of Fertilizer Nutrients and Supplemental Watering shall be performed according to Article 201.06 of the "Standard Specifications". The Fertilizer Nutrients and Supplemental Watering shall not be paid for separately, but shall be included in the contract unit price for TREE ROOT PRUNING.

Removed material shall be disposed outside the right of way according to Article 202.03 of the "Standard Specifications".

Method of Measurement: Tree Root Pruning will be measured for payment as each per tree according to Article 201.10(d) of the "Standard Specifications".

Basis of Payment: This work will be paid for at the contract unit price per each for TREE ROOT PRUNING. *The unit price shall include all equipment, materials, and labor required to prune the existing tree roots and to transport & dispose of the removed material. The unit price shall also include all equipment materials and labor required to accomplish the application of the fertilizer nutrients and supplemental watering.*

ARTICLE 202.03 REMOVAL AND DISPOSAL OF SURPLUS, UNSTABLE, AND UNSUITABLE MATERIALS AND ORGANIC WASTE

Effective: February 18, 2013
Revised: May 13, 2015

Description: This work shall consist of the off-site disposal at pre-approved Clean Construction or Demolition Debris (CCDD) facilities of excess uncontaminated soil generated by Lake County Division of Transportation (LCDOT) contract construction projects.

Definitions:

Clean construction or demolition debris (CCDD): CCDD is uncontaminated broken concrete without protruding metal bars, bricks, rock, stone, or reclaimed asphalt pavement generated from construction or demolition activities. CCDD material may include small incidental quantities of soil that are comingled as part of the removal process. When uncontaminated soil is mixed with any of these materials, the uncontaminated soil is also considered CCDD. Uncontaminated soil that is not mixed with other CCDD materials is not CCDD.

Uncontaminated Soil: What constitutes "uncontaminated soil" for purposes of CCDD and uncontaminated soil fill operations is defined in 35 Ill. Adm. Code 1100. Uncontaminated soil means soil that does not contain contaminants in concentrations that pose a threat to human health and safety and the environment.

General: CCDD that does not contain any uncontaminated soil may be disposed of at CCDD facilities without additional paperwork. CCDD containing uncontaminated soil from LCDOT construction sites may be disposed of at the facilities listed below.

LCDOT's Responsibility: LCDOT will collect and analyze soil samples for pH from the areas with no Potential Impacted Properties (PIPs), and complete the associated IEPA 662 form. The Contractor is relieved of the requirement to have the pH testing performed according to Article 202.03 as revised by the SUPPLEMENTAL SPECIFICATION FOR SECTION 202. EARTH AND ROCK EXCAVATION (2015). For areas with PIPs, LCDOT will perform the applicable soil testing based on LCDOT's due diligence procedures, and complete the associated IEPA 663 forms. Signed IEPA forms 662 and/or 663 are included in the bid package.

Contractor's Responsibility:
The Contractor is expected to use one or more of the County's pre-approved uncontaminated soil disposal facilities listed below. Should a Contractor elect to use an alternate facility for uncontaminated soil disposal, the Contractor shall be responsible for all costs associated with testing, trucking, and tipping fees for proper disposal of all accepted loads, and all costs associated with proper disposal of all rejected loads.

The Contractor shall stage and transport material to the pre-approved receiving facility and shall be responsible for coordination with such facilities on operating hours.

The Contractor shall submit a Material Disposal Plan a minimum of 14 days prior to beginning earthwork activities. The Material Disposal Plan shall detail the methods of removal and disposal of all un-contaminated soil and CCDD leaving the site, for review and approval by the Engineer.

In the event that a pre-approved disposal facility rejects the material, the Contractor shall return the material to the project site for stockpile at a location and manner designated by the Engineer according to the special provision for REJECTED LOAD TRANSPORTATION.

No soil testing shall be conducted by the Contractor with the exception of onsite photo ionization detectors (PID) screening (at the Contractor's option).

Method of Measurement: This work will not be measured for payment.

Basis for Payment: The off-site disposal of uncontaminated soil and/or CCDD, including transportation, facility disposal fees and all other work necessary, will not be paid for but shall be included in the contract unit price per cubic yard of EARTH EXCAVATION. Rejected Loads will be paid for according to the special provision for REJECTED LOAD TRANSPORTATION.

Pre-Approved Facilities for Receiving Uncontaminated Soil and/or CCDD from LCDOT Projects

Midwest Aggregates 28435 W. Route 173 Antioch, IL 60002 (847) 395-2595 Mr. Jim Mertes	Reliable Sand and Gravel Co., Inc. 2121 S River Road McHenry, IL 60051 (815) 385-5020 Mr. Don Roberts	47 Acres/Southwind Business Park 2250 Southwind Boulevard Bartlett, IL 60103 (630) 497-8700 Mr. William Haworth
Lake in the Hills CCDD Pingree Rd/Virginia Rd Lake in the Hills, IL 60156 (630) 497-8700 Mr. Michael Vondra	Reliable Lyons CCDD 4226 S Lawndale Avenue Lyons, IL 60534 (630) 497-8700 Mr. William Haworth	Blue Heron Business Park – Bartlett 23108 W Bartlett Road Bartlett, IL 60103 Mr. William Haworth
Petersen Sand & Gravel CCDD 914 W Route 120 Lakemoor, IL 60050 (847) 395-3313 Mr. Steve Thelen	Raymond Street – CCDD 1400 Route 25 South Elgin, IL 60177 (630) 497-8700 Mr. William Haworth	Gifford East – CCDD 1395 Gifford Road Elgin, IL 60120 Mr. William Haworth
Thelen Sand & Gravel 28955 E IL Route 173 Antioch, IL 60002 (847) 395-3313 Mr. Steve Thelen	Middle St – CCDD 1155 W Middle St South Elgin, IL 60177 (630) 497-8700 Mr. William Haworth	

20200100 EARTH EXCAVATION (LCDOT)

Effective: January 1, 2007
Revised: January 28, 2015

Description: This work shall consist of the excavation and transportation of suitable excavated material to embankment locations throughout the limits of the project. This work shall also consist of the excavation, transportation and off-site disposal of excess and unsuitable materials.

For this Project the Earth Excavation shall consist of:

1. ☒ *Excavation to the subgrade elevation.*
2. ☒ *Excavation for topsoil placement.*
3. ☒ *The removal of existing hot-mix asphalt pavement and aggregate base course not included in any other pay item.*
4. ☒ *Undercutting, as determined by the Engineer to include:*
   - a. ☒ *Removal of existing topsoil under proposed embankment.*
   - b. ☒ *Removal of unsuitable material in wet areas.*
5. ☐ *Undercutting, based on the recommendations of the soil survey and report.*
   - a. *An estimated quantity of excavation for undercutting has been included in the quantity of Earth Excavation and is shown on the plans.*
   - b. *Undercutting may be employed only at the discretion of the Engineer after it has been determined that the provisions of Section 301 of the "Standard Specifications" will not yield sufficient results to allow the timely progress of the project.*

General: This work shall conform to the requirements of Section 202 of the "Standard Specifications" and the following:

Removal and disposal of unstable, unsuitable and/or excess material will not be paid for separately, but is included in the contract unit price for Earth Excavation. All unstable, unsuitable and/or excess material shall be disposed of outside the right-of-way according to Article 202.03 of the "Standard Specifications".

All suitable excess material from sewer trenches, side roads, entrances or other necessary excavations may be used in the construction of the roadway. Placement and compaction of this material shall be considered included in the unit price for Earth Excavation.

Excavation required to: clean side road ditches, construct driveways, and/or construct side road approaches, will not be paid for separately, but shall be considered included in the unit cost of Earth Excavation.

Earth moved more than once due to construction staging and/or procedures selected by the Contractor, will not be paid for separately, but shall be considered included in the unit cost of Earth Excavation.

When embankments are to be widened, if directed by the Engineer, steps shall be cut into the existing slopes according to Article 205.03 of the "Standard Specifications" and the IDOT D1 standard BD-51Benching Detail for Embankment Widening, at no additional cost to the contract.

Incidental Dewatering: In the event that excavations require dewatering, the Contractor shall furnish all labor, equipment and material necessary for dewatering. All dewatering operations shall be approved by the Engineer before implementation. For projects covered by an NPDES Permit the Contractor shall develop a dewatering plan in compliance with NPDES regulations. The plan shall be submitted to the Engineer and Lake County Stormwater Management Commission (LCSMC) for approval. The cost of all equipment, materials and labor necessary to comply with the above provisions will not be paid for separately, but shall be considered included in the unit price for Earth Excavation, and no additional compensation will be allowed.

A Soil Survey and Report:

☒ *Was performed – A copy is available online with the project plans and contract specifications and it is available for inspection and review at LCDOT.*

☐ *Was not performed.*

Method of Measurement: Earth Excavation will be measured in its original position and the volume in cubic yards computed by the method of average end areas.

Basis of Payment: This work will be paid for at the contract unit price per cubic yard for EARTH EXCAVATION. *The unit price shall include all equipment and labor required to excavate, transport and distribute earth.*

20200600 EXCAVATING AND GRADING EXISTING SHOULDER (LCDOT)

Effective: November 30, 2010
Revised: February 12, 2016

Description: This work shall consist of excavating the existing shoulder material to construct a hot-mix asphalt shoulder, and grading the existing shoulder material back to match the finished hot-mix asphalt shoulder surface.

General: The work shall be performed according to Section 202 of the "Standard Specifications", and the following:

The work shall include excavating the existing shoulder material to facilitate the construction of a 6" thick hot-mix asphalt shoulder. After the hot-mix asphalt shoulder has been constructed the existing shoulder material shall be graded back to match the pavement edge.

The removal of hot-mix asphalt shoulder material within the limits of the proposed hot-mix shoulder shall be included in the unit price per unit for EXCAVATING AND GRADING EXISTING SHOULDER. Should the Contractor elect to mill the existing hot-mix asphalt shoulder with the rest of the pavement prior to excavation, the area of the shoulder will not be included in the area calculated for HOT-MIX ASPHALT SURFACE REMOVAL of the depth included in the plans.

After the hot-mix asphalt shoulder has been constructed the existing aggregate shoulder material shall be graded back to match the pavement edge. An adequate amount of aggregate shoulder material shall be reserved from the excavation to permit the flush grading of the shoulder upon completion of the hot-mix asphalt shoulder construction.

Any excess shoulder material shall be disposed of outside the right-of-way according to Article 202.03 of the "Standard Specifications".

Method of Measurement: This work will be measured in place, in units (one unit equals 100 linear feet) according to Article 202.07 (b) of the "Standard Secifications", of the actual shoulders excavated and graded.

Basis of Payment: This work will be paid for at the contract unit price per unit for EXCAVATING AND GRADING EXISTING SHOULDER. *The unit price shall include the excavation required to construct the full width of the proposed hot-mix asphalt shoulder, the grading required to match the existing shoulder material to the finished pavement, and the disposal of any excess material. The Contractor shall not be paid more than once for moving the existing shoulder material multiple times. The unit price shall also include all equipment, labor and materials required to complete the work.*

21101600 TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH (LCDOT)

Effective: April 19, 2010
Revised: March 3, 2016

Description: This work shall consist of furnishing and placing topsoil in a variable width and depth wedge adjacent to a proposed aggregate shoulder.

Materials: Topsoil (furnished from outside the right-of-way) shall meet the requirements of Article 1081.05(a) of the "Standard Specifications".

General: The work shall be performed according to Section 211 of the "Standard Specifications" and the following:

This work shall also comply with the "Illinois State Agency Historic Resources Preservation Act" (Public Act 86-707, effective January 1, 1990). Under this Act:

1. *The Contractor shall complete an Environmental Survey Request Form for Borrow/Waste/Use Areas (BDE form 2289 7/28/15 included herein), along with all required attachments, and submit them to the Engineer at the earliest possible date.*

2. *The Engineer shall submit the Environmental Survey Request to the Illinois Department of Transportation for review and approval. Any costs incurred associated with said review and approval will be borne by the Contractor.*

3. *The Contractor shall not begin work on any Borrow/Use areas until the Environmental Survey Request has been approved.*

A variable width and depth wedge of topsoil shall be placed at the edge of the proposed aggregate shoulder, as shown on the plans. The Contractor shall place the topsoil in such a manner as to prevent it from spilling into the ditches and/or wetland areas.

Method of Measurement: The length and width of the work will be measured in place and the area calculated in square yards.

Basis of Payment: This work will be paid for at the contract unit price per square yard for TOPSOIL FURNISH AND PLACE VARIABLE DEPTH. *The unit price shall include all equipment, materials and labor required to furnish and place the topsoil wedge.*

28000305 TEMPORARY DITCH CHECKS (LCDOT)

Effective: April 22, 2010
Revised: August 20, 2014

Description: This work shall consist of furnishing, constructing, and removing temporary ditch checks.

General: The work shall be performed according to Section 280 of the "Standard Specifications", LCDOT Standard Drawing LC2050 and the following:

The temporary ditch check shall be triangular shaped, urethane foam covered with a geotextile fabric. The temporary ditch check shall be installed on a geotextile fabric apron. The temporary ditch check shall have a triangle base 16" – 20" wide and a minimum triangle height of 8" – 10". The temporary ditch checks shall be installed at the locations specified on the Erosion Control Plan, and/or as directed by the Engineer. The temporary ditch check installation shall be according to the detail shown on the plans and the manufacturer's recommendations.

The geotextile fabric shall conform to Article 1080.05 of the "Standard Specifications", for Geotechnical Fabric for French Drains.

The temporary ditch checks shall remain in place until just before placing the final landscaping in the ditch area. The Contractor shall not remove the temporary ditch checks if it is raining and/or rain is in the immediate forecast.

The ditch checks shall become the property of the Contractor upon their removal.

Method of Measurement: *Temporary Ditch Checks will be measured in place and the length calculated in feet for each ditch check section actually installed.*

Basis of Payment: This work will be paid for at the contract unit price per foot for TEMPORARY DITCH CHECKS. *The unit price shall include all labor, equipment and materials necessary for their installation and removal. The maintenance of this item shall be included with and paid for as part of the contract total price for* MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS.

28000400 PERIMETER EROSION BARRIER (LCDOT)

Effective: January 1, 2007
Revised: August 20, 2014

Description: This work shall consist of constructing, removing and disposing of perimeter erosion barrier as part of the project's temporary erosion control system.

General: The work shall be performed according to Section 280 of the "Standard Specifications" and the following:

The perimeter erosion barrier shall be limited to temporary silt filter fence meeting the requirements of AASHTO Standard M 288-00. This specification is applicable to the use of a geotextile as a vertical, permeable interceptor designed to remove suspended soil from overland water flow. The function of a temporary silt fence is to filter and allow settlement of soil particles from sediment-laden water. The purpose is to prevent the eroded soil from being transported off the construction site by water runoff.

All removed materials shall be disposed of outside the right-of-way according to Article 202.03 of the "Standard Specifications".

Materials:

Geotextile Requirements: The geotextile used for the temporary silt fence shall be classified as supported (with a wire or polymeric mesh backing) or unsupported (no backing). The temporary silt fence geotextile shall meet the requirements of Table 6 included below. All numeric values except Apparent Opening Size (AOS) represent Minimum Average Roll Values (MARV as defined in ASTM D4439). The values for AOS are the Maximum Average Roll Values.

Table 6 – Temporary Silt Fence Requirements

Requirements	**Test Methods**	**Wire Backed Supported Silt Fence [a]**	**Unsupported Silt Fence**	
			Geotextile Elongation >=50% [b]	**Geotextile Elongation <50% [b]**
Maximum Post Spacing		4 feet	4 feet	6 feet
Grab Strength	ASTM D 4632			
Machine direction		90 lbs	124 lbs	124 lbs
X-Machine direction		90 lbs	100 lbs	100lbs
Permittivity [c]	ASTM D 4491	0.05 sec^{-1}	0.05 sec^{-1}	0.05 sec^{-1}
Apparent Opening Size	ASTM D 4751	0.024in maximum average roll value		
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours of exposure		

Notes:

a) Silt fence support shall consist of 14-guage steel wire with a mesh backing of 6" x 6" or prefabricated polymeric mesh of equivalent strength.
b) As measured according to ASTM D 4632.
c) These default filtration property values are based on empirical evidence with a variety of sediments. For environmentally sensitive areas, a review of previous experience and/or site or regionally specific geotextile tests should be performed by the agency to confirm suitability of these requirements.

Support Posts: The support posts may be composed of wood, steel or a synthetic material. The posts shall be a minimum length of 3 feet plus the buried depth. They shall have sufficient strength to resist damage during installation and to the support the applied loads due to material build up behind the silt fence.

1) Hardwood posts shall be a minimum of 1.2” x 1.2”
2) No. 2 southern pine posts shall be a minimum of 2.6” x 2.6”
3) Steel posts may be U, T, L, or C shape, weighing 1.3 lbs per foot.

Fence Support: The wire or polymer support fence shall be at least 30” high and strong enough to support the applied loads. Polymer support fences shall meet the same ultraviolet degradation requirements as the geotextile material (see table 6).

The wire support fence shall:

- Be a minimum of 14-gauge.
- Have a minimum of six horizontal wires.
- The maximum vertical wire spacing shall be 6”.

Construction:

The silt fence shall be installed with a minimum height above ground of 30”. The geotextile at the bottom of the fence shall be buried, in a “J” configuration to a minimum depth of 6”, in a trench so that no flow can pass under the silt fence. The trench shall be backfilled and the soil compacted over the geotextile.

The geotextile shall be spliced together with a sewn seam or two sections of fence may be overlapped instead. The sewn seam shall be positioned only at a support post.

The Contractor must demonstrate to the satisfaction of the Engineer that the geotextile can withstand the anticipated sediment loading.

The posts shall be placed at the spacing shown on the project plans. The posts shall be driven or placed a minimum of 20” into the ground. The depth shall be increased to 24” if the fence is placed on a slope of 3:1 or greater. If the 20” depth is impossible to obtain, the posts shall be adequately secured to prevent overturning of the fence due to sediment loading.

The support fence shall be securely fastened to the upslope side of the fence post. The support fence shall extend from the ground surface to the top of the geotextile.

When un-supported fence is used, the geotextile shall be securely fastened to the fence posts.

Field monitoring shall be performed to verify that the placement of an armor system does not damage the geotextile.

Silt fences should be continuous and transverse to the flow. The silt fence should follow the contours of the site as closely as possible. The fence shall also be placed such that run off cannot flow around the end(s) of the fence.

The silt fence should be located so that the drainage area is limited to an area equivalent to 1000 square feet for each 10 feet of fence length. Caution should be used where the site slope is greater than 1:1, and/or water flow rates exceed 0.1 cubic feet per second for each 10 feet of fence length.

Maintenance:

The Contractor shall inspect all temporary silt fences immediately after each rainfall and at least daily during prolonged rainfall. The Contractor shall immediately correct any deficiencies.

The Contractor shall also make a daily review of the location of silt fences in areas where construction activities have altered the natural contour and drainage runoff to ensure that the silt fences area properly located for effectiveness. Where deficiencies exist as determined by the Engineer, additional silt fence shall be installed as directed by the Engineer.

Damaged or otherwise ineffective silt fences shall be repaired or replaced promptly.

Sediment deposits shall either be removed when the deposit reaches half the height of the fence or a second silt fence shall be installed as directed by the Engineer.

The silt fence shall remain in place until the Engineer directs it to be removed. After the fence removal, the Contractor shall remove and dispose of any excess sediment accumulations, dress the area to give it a pleasing appearance, and cover with vegetation all bare areas according to the contract requirements.

The removed silt fence may be used at other locations provided the geotextile and other material requirements continue to be met to the satisfaction of the Engineer.

Method of Measurement: This work will be measured for payment in place in feet.

Basis of Payment: This work will be paid for at the contract unit price per foot for PERIMETER EROSION BARRIER. *The unit price shall include all work and materials necessary to properly install the barrier and to remove and dispose of the used materials at the completion of the project. Maintenance requirements shall be included and paid for under the special provision for MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS.*

A200XXXX, C200XXXX PLANTING WOODY PLANTS

Description: This work shall consist of furnishing, transporting and planting woody plants such as trees and shrubs. The work shall also include all bracing, wrapping, watering, weeding, replacement of plants when required, and all work described.

Materials: The material shall be according to Article 253.02 of the "Standard Specifications".

General: The work shall be performed according to Section 253 of the "Standard Specifications" except that:

The planting time shall be between August 15 and September 15.

The period of establishment will begin as soon as the plants are planted and end the following April 28th.

At the end of the period of establishment and just prior to the Department assuming responsibility for the plant material, the entire are shall be left in a like new condition. The Contractor shall weed and thoroughly clean up the entire area to the satisfaction of the Engineer.

Method of Measurement: This work shall be measured in accordance with Article 253.16 of the "Standard Specifications".

Basis of Payment: This work shall be paid for according to Article 253.17 of the "Standard Specifications". *The unit price shall include the cost of all materials, equipment, labor, plant care and incidentals required to furnish, install and establish the trees and shrubs.*

K0012990 PLANTING PERENNIAL PLANTS

Description: This work shall consist of furnishing, transporting and planting perennial plants.

Materials: The material shall be according to Article 254.02 of the "Standard Specifications".

General: The work shall be performed according to Section 254 of the "Standard Specifications" except that:

The period of establishment will begin as soon as the plants are planted and end the following April 28th. Watering can be halted during the winter when plants are dormant.

If a performance bond is desired so as not to delay acceptance of the entire project and final payment due to the Contractor, a performance bond shall be provided in accordance with Article 253.14.

At the end of the period of establishment and just prior to the Department assuming responsibility for the plant material, the entire area shall be left in a like new condition. The Contractor shall weed and thoroughly clean up the entire area, in accordance with Article 253.14, to the satisfaction of the Engineer.

Method of Measurement: This work shall be measured for final payment in units of 100 perennial plants of the type and size specified after planting is complete.

Basis of Payment: This work shall be paid for at the contract unit price per unit for PERENNIAL PLANTS, of the type and size specified. *The unit price shall include all materials, equipment, labor, plant care and incidentals required to furnish, install, and establish the perennial plants.*

Payment will be made according to the following schedule:

a. Initial Payment. Upon completion of planting and mulch covering, 90 percent of the pay item(s) will be paid.

Final Payment. Upon establishment, inspection and acceptance of the plant material, or upon execution of a third party bond, the remaining ten percent of the pay item(s) will be paid.

K0036118 MULCH PLACEMENT 3”

Description: This work shall consist of furnishing and placing shredded hardwood bark mulch in planting beds as shown on the plans.

Materials: The mulch shall be shredded hardwood bark mulch and be free of harmful chemicals, diseases, and insects. The mulch shall have a minimum of 1/8 inch dimension and a maximum length of 2-1/2 inches. It shall be procured from the bark of hardwood trees exclusively. The material shall not contain plastics, masonry, rock, ground-up yard debris, or construction debris. It shall be dark brown in color when delivered to the project site.

General: The mulch shall be installed in accordance with applicable articles of Sections 253 and 254 and the following:

The mulch shall be placed around the new plant material to a finished depth of 3 inches.

Method of Measurement: This work shall be measured for final payment in square yards.

Basis of Payment: This work shall be paid for at the contract unit price per square yard for MULCH PLACEMENT 3”. *The unit price shall include all materials, equipment, and labor required to furnish and place the mulch.*

DIVISION 300. SUBGRADES, SUBBASES, AND BASE COURSES

SECTION 301 SUBGRADE PREPARATION (LCDOT)

Effective: January 1, 2007
Revised: May 21, 2014

Description: This work shall consist of removing, transporting and disposing of unsuitable material; and backfilling the excavated area with a porous granular embankment material when preparing the subgrade beneath the 12" Aggregate Subgrade shown on the plans.

General: The work shall meet the requirements of Section 301 of the "Standard Specifications" and the following:

Soft unstable soils of varying depths may exist at locations within the widening or reconstruction sections. These soils may need to be removed and replaced with porous granular embankment, special, prior to placing the bituminous base course or aggregate material.

The actual extent of removal and replacement shall be determined by the Engineer in the field at the time of construction. Undercuts deeper that 12" below the 12" subgrade layer shown on the typical sections (excavation resulting in more than a total of 20" porous granular embankment and 4" aggregate base course beneath the hot-mix asphalt materials) should be justified based upon cone penetrometer testing.

In all cases, the undercut shall extend 12" outside the bottom edges of the proposed 12" subgrade layer, and come up at 1:1 slopes to the existing ground surface as shown on LCDOT Standard LC2000.

The removal and disposal of the unsuitable materials will be paid for as EARTH EXCAVATION *according to the special provision included herein. A contingency quantity of* 896.00 *cubic yards has been added to the quantities as shown on the plans.*

The replacement material will be paid for as POROUS GRANULAR EMBANKMENT, SPECIAL *according to the special provision included herein. A contingency quantity of* 896.00 *cubic yards of has been added to the quantities as shown on the plans.*

In all other cut sections, once final elevations are obtained, a proof rolling procedure acceptable to the Engineer shall be followed in order to verify the stability of the subgrade prior to placement the 12" subgrade layer. Verification of subgrade stability shall be done through the use of a cone penetrometer in conjunction with the Illinois Department of Transportation's Subgrade Stability Manual.

30300112 AGGREGATE SUBGRADE IMPROVEMENT 12" (LCDOT)

Effective: January 1, 2007
Revised: May 19, 2014

Description: This work shall consist of furnishing and constructing a 12" thick aggregate subgrade on a prepared subbase. The subgrade shall be placed in 2 lifts.

Materials: The aggregate in the first lift shall be a porous granular embankment meeting the requirements of Article 1004.05 of the "Standard Specifications" except as follows:

1. *Crushed Stone, Crushed Blast Furnace Slag, or Crushed Concrete meeting the requirements of the following table will be permitted.*

Sieve Size	Percent Passing
8"	*100*
6"	*97 +/- 3*
4"	*90+/- 10*
2"	*45 +/- 25*
#4	*20+/-20*
#200	*5 +/- 5*

2. *Crushed Gravel meeting the requirements of the following table will be permitted.*

Sieve Size	Percent Passing
8"	*100*
6"	*97 +/- 3*
4"	*90+/- 10*
2"	*55 +/- 25*
#4	*30 +/- 20*
#200	*5 +/- 5*

3. *Crushed RAP, from either full depth or single lift removal, may be mechanically blended with the above aggregate materials but shall not exceed 40 percent of the total product. The RAP shall have a top size of 4" and be well graded.*

Steel slag and other expansive materials will not be permitted.

Crushed Gravel shall be defined as meeting a target of 97% with +/-3% variance for one-face or more crushed according to Crushed Particle Content: ASTM D 5821 (Illinois Modified).

The aggregate in the second lift shall be a capping aggregate. The material shall be limited to the following:

1. *Crushed Stone, Crushed Blast Furnace Slag, Crushed Concrete, and Crushed Gravel having a gradation CA 6 in accordance with the requirements of Article 1004.01 of the "Standard Specifications". Steel slag and other expansive materials will not be permitted.*

2. *Reclaimed asphalt pavement (RAP) meeting the requirements of Section 1031 of the "Standard Specifications" and the following:*

   - *100% passing the 3 inch sieve.*
   - *Well graded down through fines.*
   - *The RAP shall <u>not</u> contain steel slag or other expansive material. RAP proposed for use as a capping aggregate shall be tested by the Department to determine if it is expansive or not. Non-expansive RAP will be allowed for use in the capping aggregate.*

Equipment: A vibratory roller meeting the requirements of Article 1101.01(g) of the "Standard Specifications" shall be used to roll each lift of material.

Construction Requirements: The first lift shall be 8" thick. The material shall be a porous granular embankment. The work shall be done according to the applicable portions of Section 207 of the "Standard Specifications". The second lift shall be a 4" (nominal) thick capping aggregate. The work shall be done according to the applicable portions of Section 351 of the "Standard Specifications".

A vibratory roller shall be used to roll each lift of material to obtain the desired keying or interlock and necessary compaction. The Engineer will verify that adequate keying has been obtained.

All aggregate shall be compacted to the satisfaction of the Engineer. If the moisture content of the material is such that compaction cannot be obtained, sufficient water shall be added so that satisfactory compaction can be obtained.

Finishing and Maintenance of Aggregate Subgrade Improvement: The aggregate subgrade improvement shall be finished to the lines, grades, and cross sections shown on the plans, or as directed by the Engineer. The aggregate subgrade improvement shall be maintained in a smooth and compacted condition.

Method of Measurement: Aggregate Subgrade Improvement 12" will be measured for payment in square yards according to Article 311.08(b) of the "Standard Specifications".

Basis of Payment: This work will be paid for at the contract unit price per square yard for AGGREGATE SUBGRADE IMPROVEMENT 12". *The unit price shall include all equipment, materials and labor required to furnish and place both lifts.*

35101400 AGGREGATE BASE COURSE, TYPE B (LCDOT)

Effective: December 14, 2012
Revised: May 19, 2014

Description: This work shall consist of furnishing and placing aggregate base course material on a prepared subgrade or subbase.

Materials: The aggregate shall meet the requirements of Article 1004.04 of the "Standard Specifications" except that:

The aggregate material shall be limited to crushed gravel, crushed stone or crushed concrete.

The plasticity index requirements will be waived.

General: The work shall be performed according to Section 351 of the "Standard Specifications".

Method of Measurement: Aggregate Base Course, Type B will be measured for payment in tons according to Article 311.08(b) of the "Standard Specifications". The following excess moisture content correction will apply to Aggregate Base Course, Type B:

> When the unit of measurement for the aggregate is tons, the aggregate may be weighed in trucks or freight cars. The Contractor shall furnish or arrange for the use of scales of a type approved by the Engineer. If, at the time the Type B aggregate is weighed, it contains more than six percent of absorbed and free moisture by weight, a deduction for the amount of moisture in excess of this amount will be made in determining the pay quantity. Any aggregate that has been stockpiled will be weighed at the time it is incorporated into the work.

Basis of Payment: This work will be paid for at the contract unit price per ton for AGGREGATE BASE COURSE, TYPE B. *The unit price shall include all equipment, materials and labor required to furnish, weigh and place the base course.*

DIVISION 400. SURFACE COURSES, PAVEMENTS, REHABILITATION, AND SHOULDERS

ARTICLE 406.11 SURFACE TESTS (LCDOT)

Effective: April 1, 2008
Revised: May 19, 2014

The completed surface course will be tested for smoothness in the wheel paths with a 16 ft straightedge according to Article 406.11 of the "Standard Specifications" and the following:

The Contractor shall furnish the appropriate personnel and equipment required to perform the surface course testing according to Article 406.11 of the "Standard Specifications". The testing shall be performed to the satisfaction of the Engineer. The testing shall be performed at a time and date chosen by the Engineer, which may or may not be the day of paving. Traffic control and protection for the testing shall be included. The testing, including all required personnel and equipment, will be considered included in the unit bid prices for Hot-Mix Asphalt Surface Course of the Mix and, N value specified and provided at no additional cost to the Department. No additional compensation will be allowed for testing not performed on the day of paving.

At the Engineer's discretion the surface testing may include sections of the highway repaired with partial depth or full depth pavement patching and/or areas of pavement replacement.

406005XX LEVELING BINDER (HAND METHOD), NXX (LCDOT)

Effective: February 1, 2014
Revised: May 19, 2014

Description: This work shall consist of patching potholes and small damaged areas that occur in the milled pavement surface or the existing pavement surface with leveling binder (hand method) of the gyrations N value (gyrations) specified.

This work does not include patching pavement that has been damaged by the milling machine. See the special provision for HOT-MIX ASPHALT SURFACE REMOVAL.

Materials: The hot-mix asphalt materials shall meet the requirements of Section 1030 of the "Standard Specifications".

The Leveling Binder (Hand Method) will be designed and constructed according to Section 406 of the "Standard Specifications".

General: The work shall be performed according to Section 406 of the "Standard Specifications" and the following:

At the direction of the Engineer, holes and depressions in the pavement surface which exceed ¾" in depth shall be repaired by removal of loose and damaged material, and replaced with Leveling Binder (Hand Method). The leveling binder shall be compacted with a roller to the satisfaction of the Engineer. The material shall be compacted to produce a tight surface conforming to the adjacent area. Hand tamping may be permitted if approved by the Engineer.

Method of Measurement: Leveling Binder (Hand Method) will be measured for payment according to Article 406.13 of the "Standard Specifications".

Basis of Payment: This work will be paid for at the contract unit price per ton for LEVELING BINDER (HAND METHOD) of the N value (gyrations) specified. *The unit price shall include all equipment, materials and labor required to perform the pothole patching.*

42001300 PROTECTIVE COAT (LCDOT)

Effective: January 1, 2007
Revised: May 19, 2014

Description: This work shall consist of applying a protective coat to exposed concrete surfaces.

Materials: The protective coat shall meet the requirements of Article 1023.01 of the "Standard Specifications".

General: The work shall be performed according to Article 420.18 of the "Standard Specifications" except that:

The protective coat shall be applied to the exposed surfaces of all concrete pavements and appurtenances regardless of the calendar date limitations contained in the first paragraph of Article 420.18 of the "Standard Specifications".

Method of Measurement: The exposed surfaces of all concrete pavements and appurtenances will be measured in place and the area computed in square yards.

Basis of Payment: This work will be paid for at the contract unit price per square yard for PROTECTIVE COAT. *The unit price shall include all materials, equipment and labor required for two applications of protective coat to exposed surfaces of concrete pavements and appurtenances. The unit price shall include both applications with no additional compensation for the second coat.*

440001XX HOT-MIX ASPHALT SURFACE REMOVAL
X4401198 HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH (LCDOT)

Effective: January 1, 2007
Revised: May 19, 2014

Description: This work shall consist of removing the existing hot-mix asphalt (HMA) surface to a depth specified on the plans with a self propelled milling machine.

General: The work shall be performed according to Section 440 of the "Standard Specifications" and the following:

If the milling machine cuts too deep or tears out areas of the existing pavement which were not designated for removal, the holes shall be filled with leveling binder at the Contractor's expense.

Temporary ramps at butt joints shall be provided according to Article 406.08 of the "Standard Specifications". Temporary ramps will not be paid for separately but shall be included in the contract unit bid price for the hot-mix asphalt surface removal, of the depth specified.

Penalty – Failure by the Contractor to provide the temporary bituminous ramp shall be grounds for assessment of a penalty of **$100.00** *per lane, per day, per ramp location, for each calendar day thereafter that such facility remains incomplete, after written notification from the Engineer. Such penalty shall be deducted from monies due or to become due to the Contractor under the Contract.*

Method of Measurement: Hot-Mix Asphalt Surface Removal will be measured for payment in place and the area computed in square yards for each specified increment thickness of material removed.

Basis of Payment: This work will be paid for at the contract unit price per square yard for HOT-MIX ASPHALT SURFACE REMOVAL of the depth specified. *The unit price shall include all equipment, materials, and labor required to remove the HMA surface.*

44201XXX CLASS D PATCHES (LCDOT)

Effective: January 1, 2007
Revised: May 5, 2015

Description: This work shall consist of removing the existing pavement, excavating the subgrade if necessary, and placing new pavement - class D patches of the type specified, at locations designated by the Engineer.

Materials: The materials shall meet the requirements of Article 442.02 of the "Standard Specifications".

The Hot-Mix Asphalt Base Course will be designed and constructed according to Section 355 of the "Standard Specifications".

General: The work shall be performed according to Section 442 of the "Standard Specifications" and the following:

The pavement patching shall be limited to10" of Hot-Mix Asphalt Base Course.

The quantities shown on the plans are estimated. The actual size and location of patches will be determined in the field by the Engineer after the milling is complete. The total patching for the project is estimated at 5% of the total existing surface area (ESA). The total patching area is apportioned as follows:

Patch Type (% of Total Patching)	Patch Size Limits	Estimate Calculation
Type I (10%)	*<5 yd^2*	*0.10 x 0.05 x ESA*
TYPE II (15%)	*5 yd^2 to < 15 yd^2*	*0.15 x 0.05 x ESA*
TYPE III (45%)	*15 yd^2 to < 25 yd^2*	*0.45 x 0.05 x ESA*
TYPE IV (30%)	*>25 yd^2*	*0.30 x 0.05 x ESA*

The quantities shown on the plans are estimated. The actual size and location of patches will be determined in the field by the Engineer after the milling is complete.

Method of Measurement: Class D Patches will be measured for payment in place, and the area computed in square yards.

Basis of Payment: CLASS D PATCHES will be paid for at the contract unit price per square yard for the depth and type specified. *The unit price shall include all equipment, materials and labor required to install the patches.*

44300100 AREA REFLECTIVE CRACK CONTROL TREATMENT (LCDOT)

Effective: January 1, 2007
Revised: May 19, 2014

Description: This work shall consist of constructing area reflective crack control treatments.

General: The work shall be performed according to Section 443 of the "Standard Specifications" except that:

The crack control fabric shall be overlaid with the binder course, as soon as practical, but no more than 10 calendar days after the fabric installation.

Method of Measurement: Area Reflective Crack Control Treatment will be measured for payment in place and the area computed in square yards.

Basis of Payment: This work will be paid for at the contract unit price per square yard for AREA REFLECTIVE CRACK CONTROL TREATMENT.

48101200 AGGREGATE SHOULDERS, TYPE B (LCDOT)

Effective: December 14, 2012
Revised: May 19, 2014

Description: This work shall consist of furnishing, placing, shaping, and compacting aggregate on a prepared subgrade adjacent to the edges of the completed pavement structure or stabilized shoulder.

Materials: The aggregate shall meet the requirements of Article 1004.04 of the "Standard Specifications" except that:

The aggregate material shall be limited to crushed gravel or crushed stone.

The plasticity index requirements will be waived.

General: The work shall be performed according to Section 481 of the "Standard Specifications".

Method of Measurement: Aggregate Shoulders, Type B will be measured for payment in tons according to Article 311.08(b) of the "Standard Specifications" except that payment will not be made for aggregate outside the plan width. The following excess moisture content correction will apply to Aggregate Shoulders, Type B:

When the unit of measurement for the aggregate is tons, the aggregate may be weighed in trucks or freight cars. The Contractor shall furnish or arrange for the use of scales of a type approved by the Engineer. If, at the time the Type B aggregate is weighed, it contains more than six percent of absorbed and free moisture by weight, a deduction for the amount of moisture in excess of this amount will be made in determining the pay quantity. Any aggregate that has been stockpiled will be weighed at the time it is incorporated into the work.

Basis of Payment: This work will be paid for at the contract unit price per ton for AGGREGATE SHOULDERS, TYPE B. *The unit price shall include all equipment, materials and labor required to furnish, weigh and place the aggregate shoulder.*

DIVISION 500. STRUCTURES

550AXXXX STORM SEWERS, RUBBER GASKET, CLASS A, TYPE X XX" (LCDOT)

Effective: May 14, 2015

Description: This work shall consist of furnishing and constructing storm sewers which cross over or under water main or water service lines diagonally or perpendicularly.

Materials: *The storm sewer materials shall be limited to reinforced concrete pipe with rubber gasket joints.*

Reinforced concrete pipe shall be according to Article 1042.06 of the "Standard Specifications".

Rubber gaskets shall be according to Article 1056.01 of the "Standard Specifications".

General: The work shall be performed according to Section 550 of the "Standard Specifications", "The Standard Specifications for Water and Sewer Construction in Illinois", 7th edition, 2014 and 35 Illinois Administrative Code 653.119.

Method of Measurement: Storm Sewers, Rubber Gasket, Class A, of the type and diameter specified, will be measured for payment in place in feet. The measurement will be made according to Article 550.09 of the "Standard Specifications".

Basis of Payment: This work will be paid for at the contract unit price per foot for STORM SEWERS, RUBBER GASKET, CLASS A, of the type and diameter specified, *The unit price shall include all equipment, materials, and labor necessary to furnish and install the storm sewer.*

56105702 INSERTING VALVES 12”

Description: This work shall consist of the installation of an insertion valve and valve box at the location shown on the plans and/or as directed by the Engineer.

Materials: *The insertion valve system shall be an Insta-Valve Plus manufactured by Hydra-Stop or an approved equal. The valve box shall be a Mueller cast iron valve box or an approved equal with the word “WATER” embossed in the lid.*

General: The work shall be performed according to the “Standard Specifications for Water and Sewer Construction in Illinois”, 7th Edition, and the manufacturer’s installation specifications.

Method of Measurement: This work will be measured in place for each insertion valve and valve box installed.

Basis of Payment: This work shall be paid for at the contract unit price per each for INSERTING VALVES 12”. *The unit price shall include all equipment, labor, and materials required to complete the installation and testing of the insertion valve.*

56109210 WATER VALVES TO BE ADJUSTED (LCDOT)

Effective: June 6, 2011
Revised: May 19, 2014

Description: This work shall consist of adjusting existing water valves in pavement to be milled and resurfaced.

General: The work shall be performed according to Section 603 of the “Standard Specifications”, except that:

The frames shall not protrude more than 1½” above the pavement surface at any time during the milling/resurfacing process. This shall require more than one adjustment in areas where the milling exceeds 1½”.

Method of Measurement: This work will be measured per each water valve to be adjusted regardless of how many times the frame needs to be adjusted during the project.

Basis of Payment: This work will be paid for at the contract unit price per each for WATER VALVES TO BE ADJUSTED. *The unit price shall include all equipment, labor and materials required to adjust the existing water valve. No additional compensation will be allowed for multiple adjustments to the same valve.*

56400800 FIRE HYDRANT AND VALVE TO BE MOVED

Description: This work shall consist of moving a fire hydrant, auxiliary valve, and valve box; the removal and disposal of the existing hydrant lead pipe; and installation of a new lead pipe.

Materials: *The new fire hydrant lead and fittings shall be class 52 cement lined ductile iron conforming to AWWA Standards C104 and C151. Mechanical or push-on joints shall conform to AWWA Standard C-111. At a minimum, type 3 laying conditions shall be provided conforming to AWWA C-600. Elastomeric seals for push-on joints shall comply with ASTM F477 and shall be pressure rated according to ASTM D3139.*

All blocking shall be poured with class SI (3000 psi min.) concrete a minimum of 12" thick placed against an undisturbed earth surface and fitting. Thrust blocking shall be provided as shown in the Plans and shall be included in the unit price for FIRE HYDRANT AND VALVE TO BE MOVED.

The new lead shall be connected to an existing lead stub with a Hymax Coupling by Krauz or approved equal and shall be included in the unit price for FIRE HYDRANT AND VALVE TO BE MOVED.

General: The work shall be performed according to Section 564 of the "Standard Specifications", the "Standard Specifications for Water and Sewer Construction in Illinois", 7th Edition, and the following:

The work shall be done to the location, lines and grades shown on the plans and/or as directed by the Engineer.

The City of Zion will be providing a new fire hydrant and auxiliary valve to be installed by the Contractor. The old fire hydrant and auxiliary valve shall be salvaged to the City of Zion.

This work shall not begin until after the installation of the inserting valve to allow the water main to be shut down without disruption of service to any residents. The shutdown will be performed by the City of Zion. The Contractor shall contact the City of Zion Water Division at (847)746-4060 a minimum of two days prior to the desired shutdown.

This work shall be inspected by the City of Zion under pressure prior to any backfill. Disinfection shall be completed according to Section 41-2.15 of the "Standard Specifications for Water and Sewer Construction in Illinois, 7th Edition" and to the satisfaction of the City of Zion.

Removed materials shall be disposed of outside the right-of-way according to Article 2002.03 of the "Standard Specifications".

DIVISION 600. INCIDENTAL CONSTRUCTION

SECTION 604 FRAMES, GRATES, AND MEDIAN INLETS (LCDOT)

Effective: January 1, 2007
Revised: May 19, 2014

Description: This work shall be according to Section 604 of the "Standard Specifications" and the following:

This work shall consist of providing an environmental notice prominently cast into the above grade portion of the frame or grate/lid for all new or proposed drainage structures.

General: *The environmental notice shall be* "DUMP NO WASTE, DRAINS TO WATERWAYS" *or similar wording. The frames, lids and grates shall be according to Section 604 of the "Standard Specifications". The notice shall be cast into the Type 1 lids (open only), Type 8 grates, Type 11 grates, and Type 24 grates.*

Basis of Payment: This work will not be paid for separately, but shall be included in the unit cost of the drainage structure with frame and grate/lid specified.

60100XXX PIPE DRAINS (LCDOT)

Effective: January 1, 2007
Revised: March 3, 2016

Description: This work shall consist of constructing pipe drains of the required inside diameter.

Materials: The pipe drain materials shall meet the requirements of Article 601.02(a) of the "Standard Specifications" except that:

The pipes shall be limited to:

- *(5) Polyvinyl Chloride (PVC) pipe [1040.03(a)]*
- *(6) Corrugated Polyvinyl Chloride (PVC) pipe with a smooth interior [1040.03(d)]*
- *(8) Corrugated Polyethylene (PE) Pipe with a Smooth Interior [1040.04(a)]*

General: The work shall be performed according to Section 601 of the "Standard Specifications" and the following:

The work shall include constructing pipe drains to replace and/or relocate existing drainage lines (field tiles, sump pump outlets, etc…) encountered during construction.

The work shall also include providing a drainage outlet for traffic signal and/or interconnect handholes when in the opinion of the Engineer the additional drainage is required. The

handhole drainage pipe shall extend from the handhole and outlet in a drainage ditch or drainage structure.

Pipe drains emptying into a drainage ditch shall be fitted with a concrete collar as shown on Lake County Division of Transportation standard LC6020 (section A-A). The rodent shields shown on LC6020 shall also be included.

Pipe drain connections to handholes and/or drainage structures shall be made as on Lake County Division of Transportation standard LC6020 (Detail C).

Method of Measurement: Contingency quantities of 4" and 6" pipe drain have been included in this contract so that if drainage lines are encountered, and/or handhole drainage is required by the Engineer, a unit price will have been established for this work. Pipe drains shall be measured in place, in feet, of actual pipe installed.

Basis of Payment: This work will be paid for at the contract unit price per foot for PIPE DRAINS of the size specified. *Payment will be based on the actual length of pipe installed without a change in unit price because of adjustment in plan quantities, and no extra compensation will be allowed for any delays, inconveniences or damage sustained by the Contractor in performing the work. The unit price shall include all materials, equipment and labor required to install the pipe drains, including concrete collars and rodent shields for ditch/side slope outlets; and drilling and grouting for connections to culverts, drainage structures and/or handholes.*

60600605 CONCRETE CURB, TYPE B

Description: This work shall consist of constructing type B concrete curb.

Materials: The materials shall meet the requirements of Article 606.02 of the "Standard Specifications".

General: The work shall be performed according to Section 606 of the "Standard Specifications", IDOT Standard Drawing 606001 and the following:

One inch expansion joints shall be constructed at maximum intervals of 150 feet.
The end treatments as shown on the plans shall conform to the applicable special details. Where no end treatment is specified, curb and gutter endings shall be transitioned to a flat section over the final six feet.

Method of Measurement: Concrete Curb, Type B will be measured for payment in feet. The measurement will be made along the face of curb according to Article 606.14 of the "Standard Specifications". Transitions from one type of curb/curb and gutter to another will be included in the measured quantities for the type having the largest cross sectional area of concrete. *The transition length will be 10 feet unless otherwise shown on the plans.*

Basis of Payment: This work will be paid for at the contract unit price per foot for CONCRETE CURB, TYPE B. *The unit price shall include all equipment, materials and labor required to construct the curb.*

6060XXXX COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.XX (LCDOT)

Effective: January 1, 2007
Revised: June 12, 2014

Description: This work shall consist of constructing type B-6.XX concrete curb and gutter.

Materials: The materials shall meet the requirements of Article 606.02 of the "Standard Specifications".

General: The work shall be performed according to Section 606 of the "Standard Specifications", IDOT Standard Drawing 606001 and the following:

One inch expansion joints shall be constructed at maximum intervals of 150 feet.

The end treatments as shown on the plans shall conform to the applicable special details. Where no end treatment is specified, curb and gutter endings shall be transitioned to a flat section over the final six feet.

Method of Measurement: Combination Concrete Curb and Gutter, Type B-6.XX will be measured for payment in feet. The measurement will be made along the face of curb according to Article 606.14 of the "Standard Specifications". Transitions from one type of curb and gutter to another will be included in the measured quantities for the type having the largest cross sectional area of concrete. *The transition length will be 10 feet unless otherwise shown on the plans.*

Basis of Payment: This work will be paid for at the contract unit price per foot for COMBINATION CONCRETE CURB AND GUTTER, of the type specified. *The unit price shall include all equipment, materials and labor required to construct the curb and gutter.*

6060XXXX COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.XX (ABUTTING EXISTING PAVEMENT) (LCDOT)

Effective: January 1, 2011
Revised: May 19, 2014

Description: This work shall consist of constructing type B-6.XX concrete curb and gutter abutting existing pavement.

Materials: The materials shall meet the requirements of Article 606.02 of the "Standard Specifications".

General: The work shall be performed according to Section 606 of the "Standard Specifications", IDOT Standard Drawing 606001 and the following:

One inch expansion joints shall be constructed at maximum intervals of 150 feet.

The end treatments as shown on the plans shall conform to the applicable special details. Where no end treatment is specified, curb and gutter endings shall be transitioned to a flat section over the final six feet

Prior to placing the curb and gutter the existing pavement shall be saw cut full depth to provide a clean edge to form the curb and gutter.

Method of Measurement: Combination Concrete Curb and Gutter, Type B-6.XX (Abutting Existing Pavement) will be measured for payment in feet. The measurement will be made along the face of curb according to Article 606.14 of the "Standard Specifications". Transitions from one type of curb and gutter to another will be included in the measured quantities for the type having the largest cross sectional area of concrete.

Basis of Payment: This work will be paid for at the contract unit price per foot for COMBINATION CONCRETE CURB AND GUTTER, (ABUTTING EXISTING PAVEMENT) of the type specified. *The unit price shall include all equipment, labor and materials required to complete the construction of the curb and gutter. Any and all excavation, saw cutting, and material removal required to construct the curb and gutter shall be included in the unit price for the COMBINATION CONCRETE CURB AND GUTTER, (ABUTTING EXISTING PAVEMENT) of the type specified.*

DIVISION 700. WORK ZONE TRAFFIC CONTROL AND PROTECTION, SIGNING, AND PAVEMENT MARKING

SECTION 780 PAVEMENT STRIPING (LCDOT)

Effective: July 1, 2007
Revised: May 19, 2014

Description: This work shall consist of furnishing and applying thermoplastic pavement markings.

Materials: The materials shall be according to Article 780.02 of the "Standard Specifications" and the following:

Article 1095.01 for Thermoplastic Pavement Markings, paragraph (a) Ingredient Materials, subparagraph (4) Glass Beads, shall be modified by adding the following sentence:

> *The percentage of Glass Beads, Type A, shall be raised to 45% by decreasing the percentage of filler material specified in subparagraph (3) by 15% .*

General: This work shall be performed according to Section 780 of the "Standard Specifications" and the following:

The equipment used to apply thermoplastic pavement markings, under this contract, shall be limited to hand-operated equipment only. Truck-mounted equipment shall not be used.

Method of Measurement:

Lines will be measured for payment in place in feet. Double yellow lines will be measured as two separate lines.

Words and symbols shall conform to the sizes and dimensions specified in the Illinois Manual on Uniform Traffic Control Devices and IDOT standard 780001. They will be measured based on the total areas indicated in Table 1 of Section 780 of the "Standard Specifications", or as indicated on the plans.

Basis of Payment: This work will be paid for at the contract price per foot of applied THERMOPLASTIC PAVEMENT MARKING – LINE of the width specified; and/or per square foot for THERMOPLASTIC PAVEMENT MARKING – LETTERS AND SYMBOLS.

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL (LCDOT)

Effective: January 1, 2007
Revised: May 21, 2014

Description: This work shall consist of removing existing raised reflective pavement markers.

General: The work shall be performed according to Section 783 of the "Standard Specifications" and the following:

The work shall include the removal of the raised reflective pavement marker and patching the resulting hole with hot-mix asphalt leveling binder. The leveling binder shall be compacted and leveled to the same elevation as the surrounding existing pavement surface.

Basis of Payment: This work will be paid for at the contract unit price per each for RAISED REFLECTIVE PAVEMENT MARKER REMOVAL. *The unit price shall include all equipment, materials and labor required to remove the existing raised reflective pavement marker and place the leveling binder.*

LAKE COUNTY PAY ITEMS

LC200051 REJECTED LOAD TRANSPORTATION (LCDOT)

Effective: February 18, 2013
Revised: May 13, 2015

Description: This work shall consist of transporting loads that have been rejected by CCDD facilities back to the project site, and stockpiling the material on the project site at a location specified by the Engineer.

General: The work shall be performed according to the applicable portions of the ARTICLE 202.03 REMOVAL AND DISPOSAL OF SURPLUS, UNSTABLE, AND UNSUITABLE MATERIALS AND ORGANIC WASTE special provision and the following:

This pay item is being provided to establish a unit price for transportation costs in the event that material is rejected at a CCDD facility and must be returned to the project site. Work shall include transporting the rejected material back to the project site, furnishing and installing plastic sheeting for the material to be placed on to prevent contact with the existing ground, placing the material in a pile or separated piles as directed by the Engineer, and covering the material to protect it from the weather. An excavator or loader may be required push the material into a tighter pile or spread the material on the plastic.

After further analysis by the Engineer of the rejected material, additional work effort will be necessary and will be paid separately according to Art. 109.04.

Method of Measurement: Payment shall be made per 20 cu yd load of material that is either en route to a CCDD facility, or at a CCDD facility and must be returned to the project site.

Basis of Payment: REJECTED LOAD TRANSPORTATION will be paid for at the contract unit price per load. A load shall consist of 20 cubic yards of rejected material. If the truck capacity is greater or less than 20 cubic yards, the load shall be adjusted proportionally. (A truck with a 12 cu yd capacity would counts as 12/20 or 0.60 loads).

Payment will be made for all trucks traveling from the CCDD site back to the project site, and for all trucks that were en route to the CCDD site and were turned back to the project site.

The unit price shall include all equipment, materials and labor required to transport and stockpile the rejected loads.

LC200501 MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS (LCDOT)

Effective: July 21, 2008
Revised: May 20, 2014

Description: This work shall consist of maintaining the temporary erosion control systems installed by the Contractor on the project. The maintenance shall be performed as directed by the Engineer, to control siltation at all times during the duration of the project.

General: The work shall be performed according to Section 280 of the "Standard Specifications" and the following:

The Maintenance of Temporary Erosion Control Systems shall include:

- Any repairs to the various temporary erosion control systems.
- The removal of entrapped sediment.
- Cleaning of any silt filter fabric.

When a temporary erosion control system is in need of maintenance, the Engineer will give the Contractor written notice. If the Contractor fails to maintain the temporary erosion control systems within 48 hours of receiving the written notice, the Engineer may proceed to maintain the systems as deemed necessary. The cost of this maintenance will be deducted from any compensation due, or which may become due the Contractor under this contract.

The sediment basin(s) shall be cleaned out (accumulated silt removed) any time the basin(s) become 75% filled. Any additional materials and work required by the Engineer will be measured and paid for as specified.

Removed sediment and other materials shall be disposed of according to Article 202.03 of the "Standard Specifications".

Method of Measurement: Work performed under this pay item shall be submitted by the Contractor to the Engineer on a force account basis according to Article 109.04(b) of the "Standard Specifications". The Engineer may use any, all or none of this pay item.

Basis of Payment: The quantity for this item is established by the Lake County Division of Transportation, based on the Engineer's Estimate and the following formula.

Contract Pay Item	**Percent of Engineer's Estimate for Pay Item**
Temporary Ditch Checks	*20%*
Perimeter Erosion Barrier	*100%*
Inlet Protection (Special)	*60%*
Inlet Filters	*60%*
Seeding *Sodding,* *Seeding (complete)* *Sodding (complete) **	*20%*

** if more than one of these items is included in the pay items then the sum is used. Temporary erosion control seeding is not included in the maintenance calculation.*

The quantity for MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS *for this contract is* **11,444 units**.

The unit price for MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS will be $1.00. Therefore one unit will equal $1.00 of force account work performed according to Article 109.04 (b) of the "Standard Specifications".

LC400100 BUTT JOINT FOR ENTRANCE RESURFACING (LCDOT)

Effective: January 1, 2007
Revised: May 19, 2014

Description: This work shall consist of constructing butt joints to accommodate the bituminous resurfacing of private and commercial entrances as shown on the plans.

General: To provide a neat resurfacing joint, the Contractor shall sawcut the existing entrance pavement at the resurfacing limit, a minimum of 1 inch deep. The Contractor shall then mill a four foot wide wedge in the existing entrance pavement according to Section 440 of the "Standard Specifications". The wedge will transition from 0" deep four feet from the sawcut, to 1" deep at the sawcut.

Method of Measurement: Butt Joint for Entrance Resurfacing will be measured for payment in feet. The measurement will be made along the sawcut.

Basis of Payment: This work will be paid for at the contract unit price per foot for BUTT JOINT FOR ENTRANCE RESURFACING. *The unit price shall include all equipment, materials and labor, required to sawcut the existing pavement and mill the butt joint.*

LC50022X GRATED CULVERT END SECTIONS (LCDOT)

Effective: January 1, 2014
Revised: May 20, 2014

Description: This work shall consist of furnishing and installing a precast concrete end section with attached grate of the diameter specified at locations shown on plans.

Materials: The materials shall meet the requirements of Article 542.02 [end section] and 604.02 [grates] of the "Standard Specifications".

General: The work shall be performed according to Section 542 of the "Standard Specifications" and IDOT Standard Drawing 542301-03.

Basis of Payment: This work will be paid for at the contract unit price per each for GRATED CULVERT END SECTIONS, of the diameter specified. *The unit price shall include all equipment, materials and labor required to install the end section and grate.*

LC600200 INSTALL SURVEY MONUMENTS (LCDOT)

Effective: January 1, 2007
Revised: September 4, 2014

Description: This work shall consist of installing survey monument(s) at the location(s) shown on the plans.

Materials: The Lake County Division of Transportation will supply the survey monument(s). The Contractor shall supply all the materials necessary to install the monument(s).

General: After the final surface course has been placed the Engineer will install four Mag™ nails for each point to be monumented. The Contractor shall use the following procedure to install the survey monuments.

1. At each monument location, the Engineer shall install four Mag™ nails in the surface. Each nail shall be one foot from the center and in a direct line with the opposite nail to be used for setting the new monument.

2. The Contractor shall use a hammer drill mounted with a 1¼" diameter masonry bit, to drill a hole 4½" deep, centered within the four Mag™ nails.

3. The Contractor shall use a drilling machine mounted with a four inch diamond core bit, to cut a hole, ¾" deep, centered on the initial hole. The Contractor shall chisel out the hole to a level depth of ¾".

4. The Contractor shall remove debris from the hole and insure that it is dry before applying the epoxy adhesive.

5. The Contractor shall fill the hole with an epoxy adhesive. The adhesive shall be Mark-29.9, a two-component epoxy adhesive, manufactured by Poly-Carb, Inc., or approved equal. Equivalent adhesives shall meet the requirements of ASTM Specification C881, Type IV, Grade 3 for temperatures at or above 50°F or AASHTO Specification M237-90, Table 2 Type III for the two component, epoxy adhesive if the temperature is between 31°F and 50°F. Equivalent adhesives shall be approved by the Engineer before installation.

6. The Contractor shall place the new monument in the center of the hole. Set the monument so that the center of the legend top is ⅜" below the pavement surface. Aggregate can be used to adjust the monument elevation to obtain the correct depth.

7. The Contractor shall use the four Mag™ nails and a string line or ⅛" chalk line to center the monument in the hole to the nearest 0.005 foot. This can be accomplished by drawing the string across two diagonally opposite Mag™ nails.

8. Each monument shall be protected from traffic for a minimum of 90 minutes.

9. The Contractor shall notify the Engineer prior to installing the survey monuments. The Engineer shall be present during the installation process.

Basis of Payment: This work will be paid for at the contract unit price per each for INSTALL SURVEY MONUMENTS. *The unit price shall include all labor, equipment and materials required to complete the monument installation.*

LC78002X GROOVED THERMOPLASTIC PAVEMENT MARKINGS (LCDOT)

Effective: March 1, 2015

Description: This work shall consist of furnishing, grooving and applying inlaid thermoplastic pavement markings.

Materials: The materials shall be according to Article 780.02 of the "Standard Specifications" and the following:

Article 1095.01 for Thermoplastic Pavement Markings, paragraph (a) Ingredient Materials, subparagraph (4) Glass Beads, shall be modified by adding the following sentence:

The percentage of Glass Beads, Type A, shall be raised to 45% by decreasing the percentage of filler material specified in subparagraph (3) by 15% .

General: The Contractor shall supply the Engineer with a copy of the pavement marking material manufacturer's recommendations for constructing a groove.

Construction Requirements: The work shall be according to Section 780 of the "Standard Specifications" and the following:

Grooving for Thermoplastic Pavement Markings:

Equipment: Plane the grooved lines according to details in the plan and per manufacturer's recommendations. The grooving equipment shall be equipped with either a free-floating saw blade cutting head or a free-floating grinder cutting head configuration with diamond or carbide tipped cutters and shall produce an irregular textured surface.

Pavement Grooving Methods: The grooves for recessed pavement markings shall be constructed using the following methods:

(a) Wet Cutting Head Operation. When water is required or used to cool the cutting head, the groove shall be flushed with high pressure water immediately following the cut to avoid build up and hardening of slurry in the groove. The pavement surface shall be allowed to dry for a minimum of 24 hours prior to the final cleaning of the groove and application of the pavement marking material.

(b) Dry Cutting Head Operation. When used on HMA pavements, the groove shall be vacuumed or cleaned by blasting with a high-pressure air blower with at least 185 ft^3/min air flow and 120 psi air pressure to remove loose aggregate, debris, and dust generated during the cutting operation. When used on PCC pavements, the groove shall be flushed with high pressure water or shot blasted to remove any PCC particles that may have become destabilized during the grooving process. If high pressure water is used, the pavement surface shall be allowed to dry for a minimum of 24 hours prior to the final cleaning of the groove and application of the pavement marking material.

Pavement Grooving: Grooving shall not cause ravels, aggregate fractures, spalling or disturbance of the joints to the underlying surface of the pavement. Grooves shall be cut into the pavement prior to the application of the pavement marking material. Grooves shall be cut such that the width is 1 inch greater than the width of the pavement marking line as specified on the plans. Grooves for letters and symbols shall be cut in a square or rectangular shape so that the entire marking will fit within the limits of the grooved area.

The position of the edge of the grooves shall be a minimum of 2 inches from the edge of all longitudinal joints. The Contractor shall achieve straight alignment with the grooving equipment.

The depth of the groove shall not be less than the manufacturer's recommendations for the pavement marking material specified, but shall be installed to a minimum depth of 120 mils ± 10mils from the pavement surface or, if tined, from the high point of the tined surface. To measure the depth, the contractor may use a depth plate placed in the groove and a straightedge placed across the plate and groove, or the contractor may use a straightedge placed perpendicular to the groove. The Engineer may periodically check groove depths. The cutting head shall be operated at the appropriate speed in order to prevent undulation of the cutting head and grooving at an inconsistent depth.

At the start of grooving operations, a 50 ft test section shall be installed and depth measurements shall be made at 10 ft intervals within the test section. The individual depth measurements shall be within the allowable ranges according to this Special Provision. If it is determined the test section has not been grooved at the appropriate depth or texture, adjustments shall be made to the cutting head and another 50 ft test section shall be installed and checked. This process shall continue until the test section meets the requirements of this Special Provision.

For new HMA pavements, grooves shall not be installed within 14 days of the placement of the final course of pavement.

Final Cleaning:

Concrete – If water is used in the grooving process, allow the groove to dry a minimum of 24 hours after groove cleaning, and prior to pavement marking application. The groove surface shall be clean and dry before applying the adhesive, and pavement marking tape. Immediately prior to the application of the pavement marking material or primer sealer, the groove shall be cleaned with a high-pressure air blower with at least 185 ft^3/min air flow and 120 psi air pressure. Use of the air blower does not decrease the amount of time required for the groove to dry.

New HMA - Use a high-pressure air blower with at least 185 ft^3/min air flow and 120 psi air pressure to clean the groove.

Thermoplastic Pavement Marking Application: Apply the thermoplastic pavement markings according to Section 780 of the "Standard Specifications" and the following:

The equipment used to apply thermoplastic pavement markings, under this contract, shall be limited to hand-operated equipment only. Truck-mounted equipment shall not be used.

Method of Measurement: Lines will be measured for payment in place in feet. Double yellow lines will be measured as two separate lines.

Words and symbols shall conform to the sizes and dimensions specified in the Illinois Manual on Uniform Traffic Control Devices and IDOT standard 780001. They will be measured based on the total areas indicated in Table 1 of Section 780 of the "Standard Specifications", or as indicated on the plans.

Basis of Payment: This work will be paid for at the contract price per foot of applied GROOVED THERMOPLASTIC PAVEMENT MARKING – LINE of the width specified; and/or per square foot for GROOVED THERMOPLASTIC PAVEMENT MARKING – LETTERS AND SYMBOLS. *The unit price shall include all equipment, materials and labor required to furnish, groove and install the thermoplastic pavement markings.*

IDOT DESIGN TEMPORARY PAY ITEMS

X2070304 POROUS GRANULAR EMBANKMENT, SPECIAL (LCDOT)

Effective: January 1, 2007
Revised: January 22, 2015

Description: This work shall consist of furnishing and placing porous granular embankment.

Materials: The aggregate shall meet the requirements of Article 1004.05 of the "Standard Specifications" except as follows:

1. *Crushed Stone, Crushed Blast Furnace Slag, or Crushed Concrete meeting the requirements of the following table will be permitted.*

Sieve Size	Percent Passing
8"	*100*
6"	*97 +/- 3*
4"	*90+/- 10*
2"	*45 +/- 25*
#4	*20+/-20*
#200	*5 +/- 5*

2. *Crushed Gravel meeting the requirements of the following table will be permitted.*

Sieve Size	Percent Passing
8"	*100*
6"	*97 +/- 3*
4"	*90+/- 10*
2"	*55 +/- 25*
#4	*30 +/- 20*
#200	*5 +/- 5*

3. *Crushed RAP, from either full depth or single lift removal, may be mechanically blended with the above aggregate materials but shall not exceed 40 percent of the total product. The RAP shall have a top size of 4" and be well graded.*

Steel slag and other expansive materials will not be permitted.

Crushed Gravel shall be defined as meeting a target of 97% with +/-3% variance for one-face or more crushed according to Crushed Particle Content: ASTM D 5821 (Illinois Modified).

Equipment: A vibratory roller meeting the requirements of Article 1101.01(g) of the "Standard Specifications" shall be used to roll each lift of material.

General: The work shall be performed according to Section 207 of the "Standard Specifications" and the following:

A vibratory roller shall be used to roll each lift of material to obtain the desired keying or interlock and necessary compaction. The Engineer will verify that adequate keying has been obtained.

Porous Granular Embankment, Special shall be used in all widening and pavement reconstruction areas as shown on the plans. Undercut and PGE placement in addition to the plan thickness will be done as field conditions warrant. No adjustment in unit price will be allowed for an increase or decrease in quantities from the estimated quantities shown in the plans.

Method of Measurement: Porous Granular Embankment, Special will be measured for payment in cubic yards according to Article 311.08(b) of the "Standard Specifications".

Basis of Payment: This work will be paid for at the contract unit price per cubic yard for POROUS GRANULAR EMBANKMENT, SPECIAL. *The unit price shall include all equipment and labor required to furnish and place the porous granular embankment.*

X2110100 TOPSOIL FURNISH AND PLACE, SPECIAL (LCDOT)

Description: This work shall consist of furnishing and placing topsoil.

General: The work shall be performed according to Section 211 of the "Standard Specifications" except that:

The furnished material shall be a blend of 75% topsoil and 25% compost.

Method of Measurement: Topsoil Furnish and Place, Special will be measured in accordance with Article 211.07 of the "Standard Specifications".

Basis of Payment: This work will be paid for at the contract unit price per cubic yard for TOPSOIL FURNISH AND PLACE, SPECIAL. *The unit price shall include all equipment, materials and labor required to furnish and place topsoil.*

X2800500 INLET PROTECTION, SPECIAL (LCDOT)

Effective: January 1, 2007
Revised: June 6, 2014

Description: This work shall consist of furnishing, constructing, removing, and disposing of inlet protection as part of the project's temporary erosion control system.

General: The work shall be performed according to Section 280 of the "Standard Specifications", and the following:

The inlet protection shall consist of silt filter fence placed around the perimeter of the inlet. The silt filter fence shall be supported by 1" x 2" wooden stakes with a minimum length of three feet. The stakes shall be spaced no more than three feet apart, and shall be driven into the ground a minimum of 8".

The filter fabric shall be installed in a backfilled trench 6" deep and securely attached to the posts by a method approved by the Engineer. The rim elevation of the casting shall be temporarily set a minimum of 6" above the adjacent grade. This elevation may vary to avoid flooding conditions as determined by the Engineer.

Method of Measurement: This work will be measured for payment as individual items and the unit of measurement will be each regardless of the size or type of inlet being protected.

Basis of Payment: This work will be paid for at the contract unit price per each for INLET PROTECTION, SPECIAL. *The unit price shall include all work and materials necessary to properly install the inlet protection and to remove and dispose of the used materials at the completion of the project. Maintenance requirements shall be included and paid for under the special provision for MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS.*

X6013600 PIPE UNDERDRAINS 4" (MODIFIED) (LCDOT)

Effective: January 1, 2007
Revised: May 21, 2014

Description: This work shall consist of constructing pipe underdrains.

Materials: The pipe underdrain materials shall meet the requirements of Article 601.02 of the "Standard Specifications" except that:

The pipe shall be limited to:

- *(m) Perforated Polyvinyl Chloride (PVC) Pipe [1040.03(b)]*
- *(n) Perforated Corrugated Polyvinyl Chloride (PVC) Pipe with a Smooth Interior [1040.03(c)]*
- *(r) Perforated Corrugated Polyethylene (PE) Pipe with a Smooth Interior [1040.04(a)]*

General: The work shall be performed according to Section 601 of the "Standard Specifications" and the following:

Rodent shields and square concrete collars (where required) as shown on LCDOT standard drawing LC6020, shall be included in PIPE UNDERDRAINS 4" (MODIFIED).

Method of Measurement: Pipe underdrains shall be measured in place, in feet, of actual pipe installed.

Basis of Payment: This work will be paid for at the contract unit price per foot for PIPE UNDERDRAINS 4" (MODIFIED). *The unit price shall include furnishing and placing all pipe, fittings, connecting pipes, rodent shields, bedding and concrete collars. The unit price shall also include all equipment, materials and labor required to furnish and construct the pipe underdrains.*

X6030205 FRAMES AND GRATES TO BE ADJUSTED (SPECIAL) (LCDOT)

Effective: January 1, 2007
Revised: May 20, 2014

Description: This work shall consist of adjusting the frame, with grates or lids, of existing drainage and/or utility structures.

General: The work shall be performed according to Section 603 of the "Standard Specifications", except that:

The frame shall not protrude more than 1½" above the pavement surface at any time during the milling/resurfacing process. This will require more than one adjustment in areas where the milling exceeds 1½".

As an option, the Contractor may remove the frame and grate/lid and place a plate over the structure until the binder course is placed. The plate shall then be removed and the frame and grate/lid installed at the final grade prior to the placement of the surface course.

As an alternative to the temporary hot-mix asphalt ramp placement required by Article 603.07 of the "Standard Specifications", the Contractor may use a manhole safety ramp. The ramp shall be a compression-molded composite of 100% recycled rubber. The ramp shall have a minimum height of 2".

Characteristics	Specification	Standard
Density	0.6 oz/cu in	ASTM C 642
Durometer Hardness	65A	ASTM D 2240
Tension Strength	300 PSI	ASTM D 412
Elongation	90%	ASTM D 412
Brittleness	-40° F	ASTM D 746
Coefficient of Thermal Expansion	8×10^{-5}	ASTM C 531

The manhole safety ramp shall fit securely around the structure frame, and shall remain properly installed during use.

Method of Measurement: This work will be measured per each structure with a frame and grate/lid to be adjusted regardless of how many times the frame and grate/lid needs to be adjusted during the project.

Basis of Payment: This work will be paid for at the contract unit price per each for FRAMES AND GRATES TO BE ADJUSTED (SPECIAL). *The unit price shall include all equipment, labor and materials required to adjust the designated frame and grate/lid. No additional compensation will be allowed for multiple adjustments to the same structure.*

X6062206 STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE 6 INCH

Description: This work shall consist of constructing integrally colored portland cement concrete median pavement with an imprinted pattern, surface hardener, and cure/sealer. The concrete median shall be six inches thick.

Submittals: Manufacturer's data sheets shall be submitted on each product to be used, including preparation instructions, storage and handling requirements, and installation methods.

Quality Assurance: The installer shall provide a qualified foreman or supervisor who has a minimum of three years' experience with imprinted and textured concrete, and who has successfully completed at least five imprinted concrete installations of high quality and similar in scope to that required. The concrete shall be cast-in-place on the job site by trained and experienced workers. Materials shall be obtained from the same source for all the colored and imprinted work.

Mock-Up: Prior to beginning work the Contractor shall provide field samples of integrally colored portland cement concrete with an imprinted pattern, surface hardener, and cure/sealer. The samples shall be 48 inches by 48 inches in size with the surface colors and patterns specified. The Contractor shall not proceed with the median work until the workmanship, pattern, color, and sheen are approved by Engineer. The Contractor shall refinish the mock-ups or provide additional samples as required to obtain Engineer's approval.

Materials: The contractor shall furnish all materials according to Section 606 of the "Standard Specifications" and the following:

The Contractor shall furnish the materials and construct the median surface using the Textured Pattern, Integral Color and Color Hardener from the manufacturers listed below. The final pattern and color selections will be approved by Engineer.

Manufacturer	Textured Pattern	Integral Color	Color Hardener
Bomanite Corporation P.O. Box 599 Madera, CA 93639-0599 Phone: (559) 673-2411 Fax: (559) 673-8246	Canyon Stone	Sienna (IC)	Caramel (CH)
Scofield Systems L.M. Scofield Company 1652 E. Main Street Suite 200 St. Charles, IL 60174 Phone: (630) 377-5959 Fax: (630) 377-5952	Canyon Stone	Barcelona Brown (1017)	Pecan Tan (A-55)
Brickform Solomon Colors, Inc. 11061 Jersey Boulevard Rancho Cucamonga, CA 91730 Phone: (800) 483-9628 Fax: (217) 744-2605	Brickform Random Stone	Mesa Buff (LC-2310)	Sun Buff (1090)

The Integral Coloring admixture shall be a non-fading synthetic oxide pigment meeting ASTM C979 at a 6% minimum percent loading and a maximum 8% loading by weight of the cementitious materials in the mix. The Contractor shall add the integral color according to manufacturer's instructions.

The Color Hardener shall be applied to the surface of the concrete according to the manufacturer's instructions and recommended application techniques.

The form release agent shall be provided in clear liquid form and shall be applied to the surface of the concrete according to the manufacturer's instructions and recommended application techniques.

The curing agent shall be a liquid membrane-forming clear curing compound conforming to AASHTO M148, Type 1. The Contractor shall apply the curing compound for integrally colored concrete according to the manufacturer's instructions and recommended application techniques. The curing compound shall be applied at a uniform interval after each pour to maintain consistency in finished coloration.

The Contractor shall use admixtures designed for use and compatibility with colored concrete pigments. Do not use calcium chloride or admixtures containing chlorides. The Contractor shall use the same admixtures for colored concrete pavement throughout the project.

Joint fillers shall be selected to match the integral colors selected for the project.

Equipment: Imprinting tools shall be used for texturing freshly placed concrete in a pattern/texture as approved by Engineer. The tools shall be used according to the manufacturer's instructions.

General: This work shall be performed according to Section 606 of the "Standard Specifications" and the following:

The colored concrete mixes for the entire project are to be consistent. If the Contractor chooses to provide mixes with High Early Strength, then all colored concrete will be provided with the same mix.

If additional water is added to the colored concrete once a truck is on site, this concrete will be rejected.

If the Engineer allows, minimal amounts of water may be applied to the surface of the colored concrete to complete the final surface finishing operations. If too much water is added to the surface of the colored concrete during final surface finishing operations such that the colored concrete no longer conforms to the approved color, the colored concrete may be rejected and replaced at the direction of the Engineer.

The Contractor shall cover and protect adjacent construction and concrete from discoloration and spillage during placement and curing of the colored concrete. The Contractor shall remove and replace discolored concrete as the Engineer directs.

The Contractor shall uniformly apply the liquid release agent onto the colored, still plastic state concrete, to provide a clean release of imprinting tools from the concrete surface without lifting imprint or rearing concrete.

The Contractor shall monitor the setting up of the concrete. Once the concrete is ready for imprinting, the Contractor shall accurately align and place the imprinting stamps uniformly pressing or pounding the imprint tools to produce the required pattern and depth of imprint on the concrete surface. The Contractor shall:

- Remove the platform tools immediately.
- Hand texture and stamp edges and surfaces unable to be imprinted with the stamping mats.
- Touch up imperfections such as broken corners, double imprints, and surface cracks.

Do not cure colored concrete using plastic sheeting unless necessary due to weather conditions. Plastic sheeting shall not be laid directly on top of the concrete, as discoloration will occur. Plastic shall be suspended above the concrete.

All completed areas of colored concrete shall be of consistent color and appearance and shall meet the approval of the Engineer. Any finished areas that are rejected by the Engineer shall be removed and replaced by the Contractor at no additional cost to the County.

Method of Measurement: Stamped Colored Portland Cement Concrete and Stamped Colored Portland Cement Concrete Median Surface 6 Inch will be measured for payment in place and the area computed in square feet.

Basis of Payment: This work will be paid for at the contract unit price per square foot for STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE 6 INCH. *The unit price shall include all labor, equipment and materials necessary to construct the stamped concrete.*

X6700405 ENGINEER'S FIELD OFFICE, TYPE A (MODIFIED) (LCDOT)

Effective: January 1, 2007
Revised: May 19, 2014

Description: This work shall consist of furnishing and maintaining in good condition, for the exclusive use of the Engineer, a weatherproof building at a location approved by the Engineer.

General: The field office shall meet the requirements of Article 670.02 of the "Standard Specifications", and the following:

- *The field office and the required equipment, supplies and services shall meet the approval of the Engineer.*
- *An electric pencil sharpener shall be included in the field office equipment.*
- *A hand sanitizer shall be included in the restroom facilities.*

Penalty: Failure by the Contractor to meet the specified occupancy date for any field office shall be grounds for assessment of a penalty of **$100** per day for each calendar day thereafter that such facility remains incomplete in any respect. Failure by the Contractor to equip, heat, cool, power, supply or clean the field office shall be grounds for assessment of a penalty of **$100** per day for each calendar day that the field office remains incomplete after receipt of written notification from the Engineer. Such penalty shall be deducted from monies due or to become due the Contractor under the Contract.

Basis of Payment: This item will be paid for at the contract unit price per calendar month for ENGINEER'S FIELD OFFICE, TYPE A (MODIFIED). *The unit price shall include all supplies, equipment, materials and labor required to furnish and maintain the field office.*

IDOT LOCAL ROADS TEMPORARY PAY ITEMS

XX000856 MAILBOX REMOVAL AND RELOCATION (LCDOT)

Effective: September 1, 2011
Revised: May 19, 2014

Description: This work shall consist of removing and relocating an existing mail box.

General: This work shall consist of removing and relocating an existing mail box to the proposed location shown on the plans. The new location of the mail box shall be approved by the Engineer.

The relocated mailbox shall be installed on a new 4" x 4" square or 4½" diameter round treated wood post. The new post shall be embedded no more than 24" into the ground. The resulting hole shall be backfilled with a suitable excavated material, approved by the Engineer.

The existing post shall be removed and disposed of according to the requirements of Article 202.03 of the "Standard Specifications". The hole for the existing post shall be backfilled and the area restored.

Method of Measurement: This work will be measured for payment as each mailbox to be relocated.

Basis of Payment: This work will be paid for at the contract unit price per each for MAILBOX REMOVAL AND RELOCATION. *The unit price shall include all equipment, materials and labor required to relocate the mailbox and to restore the existing location. No additional compensation will be allowed for any temporary relocation or for the removal and disposal of the existing post.*

XX008865 PERMEABLE PLASTIC BERM (LCDOT)

Effective: November 1, 2009
Revised: May 20, 2014

Description: This work shall consist of furnishing, installing, and removing a permeable plastic berm. The plastic berm may be used in conjunction with erosion control mat, sediment bags and other components of a water treatment train and/or as a temporary ditch check while establishing final landscaping.

For this project the Permeable Plastic Berms shall be used for:

☐ *A component of a water treatment train*

☒ *A temporary ditch check while establishing final landscaping*

Materials: The permeable plastic berm shall be constructed of High Density Polyethylene (HDPE) with a UV inhibitor. The permeable plastic berm shall have 35-40% porosity. The berm shall be a minimum of 8¾" tall.

General: The work shall be performed according to Section 280 of the "Standard Specifications", and the manufacturer's recommendations.

Water Treatment Train:
The permeable plastic berm shall be used in conjunction with the erosion control mat, flocculation powder and other components to form a water treatment train as directed by the Engineer. The permeable plastic berm shall become the property of the Contractor upon the dismantling and removal of the water treatment train.

Temporary Ditch Check:
The permeable plastic berm shall be used as a temporary ditch check in ditch lines where the erosion control blanket has been placed and the seeding operations performed. The permeable plastic berms shall be placed in the locations of the Temporary Ditch Checks and/or as directed by the Engineer. Their installation shall be according to the detail shown on the plans and the manufacturer's recommendations. After the final landscaping has been established to the satisfaction of the Engineer the permeable plastic berm shall be removed by the Contractor. The permeable plastic berm shall become the property of the Contractor upon removal.

Method of Measurement:

Water Treatment Train: *The permeable plastic berm will be measured for payment in feet for the actual length used in a water treatment train.*

Temporary Ditch Check: *The Permeable Plastic Berm will be measured in place and the length calculated in feet for each permeable plastic berm actually installed.*

Basis of Payment: This work will be paid for at the contract unit price per foot for PERMEABLE PLASTIC BERM. *The unit price shall include all labor, equipment and materials necessary for the installation and removal of the plastic berm regardless of use. When used in a water treatment train the maintenance of this item shall be included as part of the unit price for* EROSION CONTROL MAT. *When used as a temporary ditch check the maintenance of this item shall be included with and paid for as part of the contract lump sum price for* MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS.

XX206400 MAILBOX POST (LCDOT)

Effective: January 1, 2007
Revised: May 19, 2014

Description: This work shall consist of removing and replacing existing broken and/or rotted mailbox post(s) at locations shown on the plans and/or as directed by the Engineer.

General: The Engineer will determine which mailbox posts need to be replaced. This work shall consist of:

- Removing the existing mailbox from the broken and/or rotted post.
- Removing the existing post.
- Installing a new 4" x 4" square or 4½" diameter round treated wood post
- Mounting the existing mailbox on the new post.

The new post shall be embedded no more than 24" into the ground. The resulting hole shall be backfilled with suitable excavated material approved by the Engineer.

The old post shall be disposed of according to the requirements of Article 202.03 of the "Standard Specifications".

Method of Measurement: This work will be measured for payment as one each for each new mailbox post installed.

Basis of Payment: This work will be paid for at the contract unit price per each for MAILBOX POST. *The unit price shall include the removal and disposal of the existing post, backfilling the post hole(s) and all equipment, materials and labor required to install the new mailbox post. No additional compensation will be allowed for any temporary relocation of the mailbox.*

<u>Traffic Control Plan</u> (L.C.-T- Section 700)
Effective 06/01/2012

Traffic Control shall be performed according to the applicable sections of the “Standard Specifications”, the “Supplemental Specifications”, the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways”, the “Quality Standard for Work Zone Traffic Control Devices”, any special details and Highway Standards as shown on the plans and the special provisions contained herein.

Special attention is called to Articles 105.03(b), 105.05, and 107.09, and to Sections 701, 704, and 782 of the “Standard Specifications”, and to the following Highway Standards, Details, Recurring Special Provisions and Special Provisions contained herein, relating to traffic control.

The Contractor shall contact the Engineer at least 72 hours in advance of beginning work.

STANDARDS

701001-02	701006-05	701201-04	701301-04
701306-03	701311-03	701326-04	701501-06
701502-06	701801-06	701901-05	

DETAILS

LC7000	LC7003	LC7004	LC7005
LC7200	LC7201		

RECURRING SPECIAL PROVISIONS

LRS3 Special Provision for Work Zone Traffic Control Surveillance

DETOURS

Detours and road closures on county maintained roads within Lake County, Illinois shall be according to the applicable Articles and Sections of the “Standard Specifications”, the “Supplemental Specifications”, the “Illinois Manual on Uniform Traffic Control Devices for Streets and Highways”, the Lake County Division of Transportation’s Detour Procedures and Guidelines, any special details and Highway Standards as shown on the Detour Plan and the Special Provisions contained herein. The LCDOT Detour Procedures and Guidelines are available from the LCDOT, Traffic Engineering Section upon request.

<u>Traffic Control and Protection (Special)</u> (L.C.-T- Section 700)
Effective 06/01/2012

The Traffic Control and Protection (Special) shall meet the requirements of Division 700. Work Zone Traffic Control and Protection, Signing, and Pavement Marking of the "Standard Specifications" except as follows:

Article 701.01 Description shall be replaced with the following:

> **701.01 Description**. This item of work shall consist of furnishing, installing, maintaining, replacing, relocating and removing all traffic control devices used for the purpose of regulating, warning or directing traffic during the construction or maintenance of this improvement.

Article 701.02 Materials shall be modified by adding the following paragraph:

> Traffic control devices include signs and their supports, signals, pavement markings, barricades and their approved weights, channeling devices, warning lights, arrow boards, flaggers, or any other device used for the purpose of regulating, detouring, warning or guiding traffic through or around the construction zone.

Article 701.04 General shall be modified by adding the following as the first paragraph:

> Traffic Control and Protection (Special) shall be provided as shown on the plans and applicable Highway Standards; as required in these special provisions and the applicable sections of the "Standard Specifications"; and/or as directed by the Engineer.

Article 701.04 General shall be modified by adding the following to the fourth paragraph:

> The Contractor shall dispatch men, materials, and equipment to correct any such deficiencies. The Contractor shall respond to any call from LCDOT concerning any request for improving or correcting traffic control devices and begin making the requested repairs within two hours from the time of notification.

Article 701.10 Surveillance shall be replaced with the following:

The Contractor is required to conduct routine inspections of the work site at a frequency that will allow for the timely replacement of any traffic control device that has become displaced, worn or damaged to the extent that it no longer conforms to the shape, dimensions, color and operational requirements of the MUTCD, the Traffic Control Standards, the IDOT Quality Standard For Work Zone Traffic Control Devices, or will no longer present a neat appearance to motorists. A sufficient quantity of replacement devices, based on vulnerability to damage, shall be readily available to meet this requirement.

The Contractor shall ensure that all the traffic control devices he/she installs are operational, functional and effective 24 hours a day, seven days a week, including holidays.

Article 701.13 Flaggers (a) shall be modified by revising the second paragraph of subparagraph (a) by adding the following:

The Engineer will determine when a side road or entrance shall be closed to traffic. The flagger shall be positioned as shown on the plans or as directed by the Engineer.

Article 701.14 Signs (a) Road Construction Ahead Signs shall be modified by changing the following in the paragraph:

"ROAD WORK AHEAD" signs shall be required in lieu of "ROAD CONSTRUCTION AHEAD" SIGNS

Article 701.14 Signs (b) Work Zone Speed Limit Signs shall be revised to read:

(b) Work Zone Speed Limit Signs. The Lake County Division of Transportation will specify whether a project meets the criteria for a Work Zone Speed Limit. When specified, the work zone speed limit signs shall be installed as shown on the LCDOT Work Zone Speed Limit Signing Diagram, LC7203, at a maximum of 20 feet lateral distance of the locations shown on the plans. Failure to install and maintain the required amount of signs at the proper sign spacing shall result in an immediate traffic control deficiency.

All permanent "SPEED LIMIT" signs located within the work zone shall be removed or covered. If the speed limit sign is to be covered, it shall be done in a manner that no part of the legend shall be visible in any lighting condition. This work shall be completed by the Contractor after the method of covering the speed limit signs has been approved by the Engineer.

The work zone speed limit signs and the end work zone speed limit signs in advance of and at the end of the lane closure(s) shall be used for the duration of the closure(s).

The work zone speed limit signs will be removed when roadway conditions return to normal or when the construction project is suspended for more than 30 days.

Article 701.14 Signs shall be modified by adding the following section (c),

(c) Temporary Construction Information Signs. When indicated in the traffic control plan or as directed by the Engineer the Contractor shall furnish, install, maintain, relocate, and remove for various stages of construction Temporary Construction Information Signs.

Temporary Construction Information Signs may include:

Driveway	White Legend on Green Background
Caution – New Lanes Open	Black Legend on Orange Background

The signs, as shown on Lake County Detail LC7201, shall be installed according to the traffic control plan and/or as directed by the Engineer.

Article 701.15 Traffic Control Devices (b) Type I, II and III Barricades shall be deleted and replaced with the following:

Type II barricades shall be used at all locations that call for Type I, or Type II barricades.

Type II barricades are used to channelize traffic; to delineate unattended obstacles, patches, excavations, drop-offs, and other hazards; and as check barricades

Any drop off greater than three inches, but less than six inches, located within eight feet of the pavement edge shall be protected by Type II barricades equipped with mono-directional steady burn lights. The barricades shall be placed at a spacing of 100 feet center to center. For any drop off within eight feet of the pavement edge that exceeds six inches, the Type II barricades equipped with mono-directional steady burn lights shall be placed at a spacing of 50 feet center to center. Barricades that must be placed in excavated areas shall have leg extensions installed so that the top of the barricade is in compliance with the height requirements of IDOT Standard 701901.

Check barricades shall be placed in work areas perpendicular to traffic every 1,000 feet, at one per lane and one per shoulder, to prevent motorists from using work areas as a traveled way. Two additional check barricades shall be placed in advance of each patch excavation or any other hazard in the work area. The first will be placed at the edge of the open traffic lane and the second centered on the closed lane. Check barricades shall be Type II and equipped with flashing amber light.

Type III barricades are used to close traffic lanes and to close roads.

Article 701.15 Traffic Control Devices (e) Direction Indicator Barricades shall be modified by adding the following paragraph.

The direction indicator barricades shall meet the requirements for Type II barricades as stated in this special provision. The top panel, which faces traffic, shall be as shown in IDOT Highway Standard 701901. The top panel, facing away from traffic shall have a 12 inch x 24 inch orange and white diagonal panel. The bottom panels shall be eight inches x 24 inches with orange and white diagonal sheeting, as shown in LCDOT's Special Detail LC7200.

Article 701.15 Traffic Control Devices (j) Portable Changeable Message Signs shall be modified by adding the following paragraphs:

The PCMS shall be compatible and fully functional with the LCDOT's Transportation Management Center PASSAGE PCMS Control Software. A list of approved PCMS's manufacturers and traffic control vendors is available upon request from the LCDOT. The PCMS shall be tested and approved by the LCDOT and can be sufficiently controlled by the LCDOT NTCIP compliant software. If the PCMS has not been tested or approved by either the Illinois State Toll Highway Authority or the LCDOT then the PCMS will need to be tested and certified by the Delcan Corporation at the Contractor's expense.

Lake County Division of Transportation (PASSAGE)
Software Developer:
Delcan
650 East Algonquin Road, Suite 101
Schaumburg, IL 60173

In case of a Traffic Incident Management (TIM) event or other County/State declared Emergency Management event, the use of the PCMS may be pre-empted from the Contractor's use by the Lake County Transportation Management Center for the duration of the incident. If the PCMS must be moved from the limits of the work site to an offsite location to better facilitate

the use of the PCMS during the incident, the Contractor will be compensated for the labor and equipment to move the PCMS to the designated location and back, according to Article 109.04 (b) of the “Standard Specifications”. In order to facilitate the movement of the PCMS in a timely manner, the LCDOT may use County Forces to move the PCMS to the designated location and/or back, at no additional cost to the Contractor.

When the sign(s) are displaying messages, they shall be considered a traffic control device. At all other times when no message is displayed, they shall be considered equipment.

Basis of Payment. Changeable message signs will be paid for at the contract unit price per calendar month for each sign as CHANGEABLE MESSAGE SIGN, as stated in Article 701.20 of this special provision.

Article 701.17 Specific Construction Operations (c) Surface Courses and Pavement (1) Prime Coat shall be replaced by the following:

(1) Prime Coat. "FRESH OIL" signs (W21-2) shall be used when the prime coat is applied to pavement that is open to traffic. The signs shall remain in place until tracking of the prime ceases. These signs shall be erected a minimum of 500 feet preceding the start of the prime and on all side roads within the posted area. The signs on the side roads shall be posted a minimum of 200 feet from the mainline pavement. These signs are excluded from the time requirements of Article 701.04 of the “Standard Specifications” as modified by this special provision (above). Non-compliance with the provisions of this section, by the Contractor, shall result in an immediate traffic control deficiency deduction. All signs shall have an amber flashing light attached.

Article 701.17 Specific Procedures (c) Surface Courses and Pavement (2) Cold Milling shall be replaced by the following:

(2) Cold Milling. "ROUGH GROOVED SURFACE" signs (W8-I107) shall be used when the road has been cold milled and is open to traffic. The signs shall remain in place until the milled surface condition no longer exists. These signs shall be erected a minimum of 500 feet preceding the start of the milled pavement and on all side roads within the posted area. The signs on the side roads shall be posted a minimum of 200 feet from the mainline pavement. Non-compliance with the provisions of this section, by the Contractor, shall result in an immediate traffic control deficiency deduction. All signs shall have an amber flashing light attached.

Article 701.17 Specific Procedures (c) Surface Course and Pavement shall be modified by adding the following paragraph:

(6) Area Reflective Crack Control Treatment Fabric. "SLIPPERY WHEN WET" signs (W8-5) shall be used when crack control fabric is applied to pavement that is open to traffic. These signs shall remain in place until the binder course is laid. The signs shall be erected a minimum of 500 feet preceding the start of the crack control treatment and on all side roads within the posted area. The signs on the side roads shall be posted a minimum of 200 feet from the mainline pavement. These signs are excluded from the time requirements of Article 701.04 of the "Standard Specifications" as modified by this special provision (above). Non-compliance with the provisions of this section, by the Contractor, shall result in an immediate traffic control deficiency deduction. All signs shall have an amber flashing light attached.

Article 701.18 Highway Standards Application (b) Standard 701316 and 701321 (2) g. Detector Loops, shall be replaced with the following:

g. Detection. Microwave Vehicle Sensors shall be installed as directed by the Engineer. The LCDOT shall approve the proposed microwave vehicle sensor before the Contractor may furnish or install it. The Contractor shall install, wire and adjust the alignment of the sensor according to the manufacturer's recommendations and requirements. The Engineer shall approve the installation. An alternate method of detection may be used if it has been demonstrated and approved by the Department.

The microwave vehicle sensor shall meet the following requirements:

- Detection Range: Adjustable to 60 feet
- Detection Angle: Adjustable, horizontal and vertical
- Detection Pattern: 16 degree beam width minimum [at 50 feet the pattern shall be approximately 15.5 feet wide]
- Mounting: Heavy-duty bracket, predrilled and slotted for pole mounting
- LED Indicator Light: For detection verification

Article 701.18 Highway Standards Application (j) Urban Traffic Control, Standards 701501, 701502, 701601, 701602, 701606, 701701, and 701801 (1) General, shall be modified by adding the following paragraphs:

Whenever a lane is closed to traffic using IDOT standard 701601, 701606, or 701701, the pavement width transition sign (W4-2R or W4-2L) shall be used in lieu of the "WORKERS" sign (W21-1 or W21-1a)

Whenever any vehicle, equipment, workers or their activities infringe on the shoulder or within 15 feet of the traveled way, and the traveled way remains unobstructed, then the applicable Traffic Control Standard shall be 701006, 701011, 701101, or 701701. The "SHOULDER WORK AHEAD" sign (W21-5(0)-48) shall be used in lieu of the "WORKERS" sign (W21-1 or W-21-1a).

Article 701.18 Highway Standards Application shall be modified by adding the following section (l):

(l) IDOT standard 701331. When IDOT standard 701331 is specified on two-lane, two-way roadways, a “LANE SHIFT AHEAD” sign shall be added 500 feet in advance of W1-3 or W1-4 sign. The Road Work sign (W20-1) shall be extended to a total of 1500’ from the start of the lane shift.

Article 701.19 Method of Measurement shall be replaced completely with the following:

701.19 Method of Measurement.

These items of work will be measured on a lump sum basis for furnishing installing, maintaining, replacing, relocating and removing the traffic control devices required in the plans and these special provisions.

Article 701.20 Basis of Payment shall be replaced completely with the following:

701.20 Basis of Payment

This work will be paid for at the contract unit price per lump sum for TRAFFIC CONTROL AND PROTECTION (SPECIAL). The payment will be in full for all labor, materials, transportation, and incidentals necessary to furnish, install, maintain, replace, relocate and remove all traffic control devices indicated in the plans and specifications, except for the following items, which will be paid for separately.

1) Temporary Bridge Traffic Signals
2) Temporary Rumble Strips [where each is defined as 25 feet]

3) Temporary Raised Pavement Markers
4) Sand module impact attenuators
5) Portable Changeable Message Signs
6) Temporary Concrete Barrier
7) Temporary Pavement Marking-Letters and Symbols
8) Temporary Pavement Marking-Line at width specified

The salvage value of the materials removed shall be reflected in the bid price for this item.

Any delays or inconveniences incurred by the Contractor while complying with these requirements shall be considered as part of TRAFFIC CONTROL AND PROTECTION (SPECIAL) and no additional compensation will be allowed.

Any traffic control devices required by the Engineer to implement the Traffic Control Plan as shown in the plans and specifications of the contract shall be considered included in the pay item TRAFFIC CONTROL AND PROTECTION (SPECIAL).

If the Engineer requires additional work involving a substantial change of location and/or work which differs in design and/or work requiring a change in the type of construction, as stated in Article 104.02(d) of the “Standard Specifications”, the standards and/or the designs, other than those required in the plans, will be made available to the Contractor at least one week in advance of the change in traffic control. Payment for any additional traffic control required for the reasons listed above will be in accordance with Article 109.04 of the “Standard Specifications”.

Revisions in the phasing of construction or maintenance operations, requested by the Contractor, may require traffic control to be installed according to standards and/or designs other than those included in the plans. The Contractor shall submit revisions or modifications to the traffic control plan shown in the contract to the Engineer for approval. No additional payment will be made for a Contractor requested modification.

In the event the sum total of all work items for which traffic control and protection is required is increased or decreased by more than ten percent, the contract bid price for TRAFFIC CONTROL AND PROTECTION will be adjusted as follows:

$$\text{Adjusted Contract Price} = 0.25P + 0.75P\ [1 \pm (X - 0.1]$$

P = the contract price for TRAFFIC CONTROL AND PROTECTION (SPECIAL)

$$X = \frac{\text{Difference between original and final value of work for which traffic control and protection is required.}}{\text{Original value of work for which traffic control and protection is required.}}$$

The value of the work items used in calculating the increase and decrease will include only items that have been added to or deducted from the contract under Article 104.02 of the “Standard Specifications” and only items that require the use of TRAFFIC CONTROL AND PROTECTION (SPECIAL).

In the event LCDOT cancels or alters any portion of the contract that result in the elimination or incompletion of any portion of the work, payment for partially completed work will be made according to Article 104.02 of the “Standard Specifications”.

Division of Transportation

Paula J. Trigg, P.E.
Director of Transportation/County Engineer

600 West Winchester Road
Libertyville, Illinois 60048-1381
Phone 847 377 7400
Fax 847 984 5888

The following Special Provisions and Supplemental Specifications approved by the State of Illinois Department of Transportation are applicable for this work and are on file in the office of the Lake County Engineer. Copies are available to prospective bidders upon request.

- Fair Employment Practices, Form LRS11, amended to conform to the latest "Equal Employment Opportunity Clause" required by the Illinois Fair Employment Practices Commission as a material form of all public contracts.

- Prevailing Wage Rates for the County of Lake

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, martial 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.

Lake County Prevailing Wage for July 2015

(See explanation of column headings at bottom of wages)

Trade Name	RG	TYP	C	Base	FRMAN	M-F>8	OSA	OSH	H/W	Pensn	Vac	Trng
ASBESTOS ABT-GEN		ALL		39.400	39.950	1.5	1.5	2.0	13.98	10.72	0.000	0.500
ASBESTOS ABT-MEC		BLD		36.340	38.840	1.5	1.5	2.0	11.47	10.96	0.000	0.720
BOILERMAKER		BLD		47.070	51.300	2.0	2.0	2.0	6.970	18.13	0.000	0.400
BRICK MASON		BLD		43.780	48.160	1.5	1.5	2.0	10.05	14.43	0.000	1.030
CARPENTER		ALL		44.350	46.350	1.5	1.5	2.0	11.79	16.39	0.000	0.630
CEMENT MASON		ALL		42.050	44.050	2.0	1.5	2.0	10.00	19.24	0.000	0.500
CERAMIC TILE FNSHER		BLD		36.810	0.000	1.5	1.5	2.0	10.55	9.230	0.000	0.770
COMMUNICATION TECH		BLD		35.130	37.230	1.5	1.5	2.0	11.07	11.77	0.000	0.530
ELECTRIC PWR EQMT OP		ALL		0.000	0.000	0.0	0.0	0.0	0.000	0.000	0.000	0.000
ELECTRIC PWR EQMT OP		HWY		39.220	53.290	1.5	1.5	2.0	5.000	12.17	0.000	0.390
ELECTRIC PWR GRNDMAN		ALL		30.330	53.290	1.5	1.5	2.0	5.000	9.400	0.000	0.300
ELECTRIC PWR GRNDMAN		HWY		30.330	53.290	1.5	1.5	2.0	5.000	9.400	0.000	0.300
ELECTRIC PWR LINEMAN		ALL		45.360	51.480	1.5	1.5	2.0	5.000	14.06	0.000	0.450
ELECTRIC PWR LINEMAN		HWY		46.950	53.290	1.5	1.5	2.0	5.000	14.56	0.000	0.470
ELECTRIC PWR TRK DRV		ALL		30.340	51.480	1.5	1.5	2.0	5.000	9.400	0.000	0.300
ELECTRIC PWR TRK DRV		HWY		31.400	53.290	1.5	1.5	2.0	5.000	9.730	0.000	0.310
ELECTRICIAN		BLD		39.400	43.340	1.5	1.5	2.0	13.59	15.71	0.000	0.640
ELEVATOR CONSTRUCTOR		BLD		50.800	57.150	2.0	2.0	2.0	13.57	14.21	4.060	0.600
FENCE ERECTOR		ALL		37.340	39.340	1.5	1.5	2.0	13.05	12.06	0.000	0.300
GLAZIER		BLD		40.500	42.000	1.5	2.0	2.0	13.14	16.99	0.000	0.940
HT/FROST INSULATOR		BLD		48.450	50.950	1.5	1.5	2.0	11.47	12.16	0.000	0.720
IRON WORKER		ALL		44.200	46.200	2.0	2.0	2.0	13.65	21.14	0.000	0.350
LABORER		ALL		39.200	39.950	1.5	1.5	2.0	13.98	10.72	0.000	0.500
LATHER		ALL		44.350	46.350	1.5	1.5	2.0	11.79	16.39	0.000	0.630
MACHINIST		BLD		45.350	47.850	1.5	1.5	2.0	7.260	8.950	1.850	0.000
MARBLE FINISHERS		ALL		32.400	34.320	1.5	1.5	2.0	10.05	13.75	0.000	0.620
MARBLE MASON		BLD		43.030	47.330	1.5	1.5	2.0	10.05	14.10	0.000	0.780
MATERIAL TESTER I		ALL		29.200	0.000	1.5	1.5	2.0	13.98	10.72	0.000	0.500
MATERIALS TESTER II		ALL		34.200	0.000	1.5	1.5	2.0	13.98	10.72	0.000	0.500
MILLWRIGHT		ALL		44.350	46.350	1.5	1.5	2.0	11.79	16.39	0.000	0.630
OPERATING ENGINEER		BLD	1	48.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD	2	46.800	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD	3	44.250	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD	4	42.500	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD	5	51.850	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD	6	49.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD	7	51.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		FLT	1	53.600	53.600	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		FLT	2	52.100	53.600	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		FLT	3	46.400	53.600	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		FLT	4	38.550	53.600	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		FLT	5	55.100	53.600	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		FLT	6	35.000	35.000	1.5	1.5	2.0	16.60	11.05	1.900	1.250
OPERATING ENGINEER		HWY	1	46.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY	2	45.750	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY	3	43.700	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY	4	42.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY	5	41.100	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY	6	49.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY	7	47.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
ORNAMNTL IRON WORKER		ALL		45.000	47.500	2.0	2.0	2.0	13.55	17.94	0.000	0.650
PAINTER		ALL		41.750	46.500	1.5	1.5	1.5	11.50	11.10	0.000	0.770
PAINTER SIGNS		BLD		33.920	38.090	1.5	1.5	1.5	2.600	2.710	0.000	0.000
PILEDRIVER		ALL		44.350	46.350	1.5	1.5	2.0	11.79	16.39	0.000	0.630
PIPEFITTER		BLD		46.000	49.000	1.5	1.5	2.0	9.000	15.85	0.000	1.780
PLASTERER		BLD		43.430	46.040	1.5	1.5	2.0	13.05	14.43	0.000	1.020
PLUMBER		BLD		46.650	48.650	1.5	1.5	2.0	13.18	11.46	0.000	0.880
ROOFER		BLD		41.000	44.000	1.5	1.5	2.0	8.280	10.54	0.000	0.530
SHEETMETAL WORKER		BLD		42.230	45.610	1.5	1.5	2.0	10.53	20.68	0.000	0.720
SIGN HANGER		BLD		31.310	33.810	1.5	1.5	2.0	4.850	3.280	0.000	0.000
SPRINKLER FITTER		BLD		49.200	51.200	1.5	1.5	2.0	11.75	9.650	0.000	0.550
STEEL ERECTOR		ALL		42.070	44.070	2.0	2.0	2.0	13.45	19.59	0.000	0.350
STONE MASON		BLD		43.780	48.160	1.5	1.5	2.0	10.05	14.43	0.000	1.030
~~SURVEY WORKER~~		->NOT IN EFFECT			ALL		37.000	37.750	1.5	1.5	2.0	12.97	9.930	0.000	0.500

TERRAZZO FINISHER	BLD		38.040	0.000	1.5	1.5	2.0	10.55	11.22	0.000	0.720
TERRAZZO MASON	BLD		41.880	44.880	1.5	1.5	2.0	10.55	12.51	0.000	0.940
TILE MASON	BLD		43.840	47.840	1.5	1.5	2.0	10.55	11.40	0.000	0.990
TRAFFIC SAFETY WRKR	HWY		32.750	34.350	1.5	1.5	2.0	6.550	6.450	0.000	0.500
TRUCK DRIVER	ALL	1	36.560	36.760	1.5	1.5	2.0	9.070	7.050	0.000	0.000
TRUCK DRIVER	ALL	2	36.000	36.400	1.5	1.5	2.0	7.200	6.000	0.000	0.150
TRUCK DRIVER	ALL	3	36.200	36.400	1.5	1.5	2.0	7.200	6.000	0.000	0.150
TRUCK DRIVER	ALL	4	36.400	36.400	1.5	1.5	2.0	7.200	6.000	0.000	0.150
TUCKPOINTER	BLD		43.800	44.800	1.5	1.5	2.0	8.280	13.49	0.000	0.670

Legend: RG (Region)
TYP (Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers)
C (Class)
Base (Base Wage Rate)
FRMAN (Foreman Rate)
M-F>8 (OT required for any hour greater than 8 worked each day, Mon through Fri.
OSA (Overtime (OT) is required for every hour worked on Saturday)
OSH (Overtime is required for every hour worked on Sunday and Holidays)
H/W (Health & Welfare Insurance)
Pensn (Pension)
Vac (Vacation)
Trng (Training)

Explanations

LAKE 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.

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.

COMMUNICATION TECHNICIAN

Low voltage construction, installation, maintenance and removal of

telecommunication facilities (voice, sound, data and video) including outside plant, telephone, security systems and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area network), LAN (local area networks), and ISDN (integrated system digital network), pulling of wire in raceways, but not the installation of raceways.

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 - Operated survey equipment including data collectors, G.P.S. and robotic instruments, as well as conventional levels and transits.

TRAFFIC SAFETY - work associated with barricades, horses and drums used to reduce lane usage on highway work, the installation and removal of temporary lane markings, and the installation and removal of temporary road signs.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

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.

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.

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".

CHECK SHEET
FOR
RECURRING SPECIAL PROVISIONS

Adopted April 1, 2016

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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FOR
LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

Adopted April 1, 2016

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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WORKING DAYS (BDE)

Effective: January 1, 2002

The Contractor shall complete the projects work (excluding pavement patching) within 52 working days.

80071

The patching quantities shown on the Schedule of Prices are estimated according to the special provision for Class D Patches included herein. These quantities are provided for bidding purposes only.

Following the hot-mix asphalt surface removal the Contractor and Engineer will determine the actual quantity and type of patches to be included in the contract. Once the total patching quantity (square yards) has been agreed to the Contractor will be granted additional working days according to the following:

Total Patching Quantity (sq yd)	/	275 sq yd per working day	=	Additional Working Days[(1)]

[(1)] Partial Working days less than or equal to 0.25 days will be rounded down. Partial working days greater than 0.25 days will be rounded up.

EXAMPLES:

Example A: Following the Hot-Mix Asphalt Surface Removal the Engineer and Contractor agree that the total patching area is 1050 square yards.

1050 (sq yd)	/	275 sq yd per working day	=	3.81 Additional Working Days

The 3.81 additional working days calculated would be rounded up to 4 additional working days granted.

Example B: Following the Hot-Mix Asphalt Surface Removal the Engineer and Contractor agree that the total patching area is 875 square yards.

875 (sq yd)	/	275 sq yd per working day	=	3.18 Additional Working Days

The 3.18 additional working days calculated would be rounded down to 3 additional working days granted.

HOT-MIX ASPHALT - DENSITY TESTING OF LONGITUDINAL JOINTS (BDE)

Effective: January 1, 2010
Revised: April 1, 2106

Description. This work shall consist of testing the density of longitudinal joints as part of the quality control/quality assurance (QC/QA) of hot-mix asphalt (HMA). Work shall be according to Section 1030 of the Standard Specifications except as follows.

Quality Control/Quality Assurance (QC/QA). Delete the second and third sentence of the third paragraph of Article 1030.05(d)(3) of the Standard Specifications.

Add the following paragraphs to the end of Article 1030.05(d)(3) of the Standard Specifications:

"Longitudinal joint density testing shall be performed at each random density test location. Longitudinal joint testing shall be located at a distance equal to the lift thickness or a minimum of 4 in. (100 mm), from each pavement edge. (i.e. for a 5 in. (125 mm) lift the near edge of the density gauge or core barrel shall be within 5 in. (125 mm) from the edge of pavement.) Longitudinal joint density testing shall be performed using either a correlated nuclear gauge or cores.

a. Confined Edge. Each confined edge density shall be represented by a one-minute nuclear density reading or a core density and shall be included in the average of density readings or core densities taken across the mat which represents the Individual Test.

b. Unconfined Edge. Each unconfined edge joint density shall be represented by an average of three one-minute density readings or a single core density at the given density test location and shall meet the density requirements specified herein. The three one-minute readings shall be spaced 10 ft (3 m) apart longitudinally along the unconfined pavement edge and centered at the random density test location."

Revise the Density Control Limits table in Article 1030.05(d)(4) of the Standard Specifications to read:

"Mixture Composition	Parameter	Individual Test (includes confined edges)	Unconfined Edge Joint Density Minimum
IL-4.75	Ndesign = 50	93.0 – 97.4% [1/]	91.0%
IL-9.5	Ndesign = 90	92.0 – 96.0%	90.0%
IL-9.5,IL-9.5L	Ndesign < 90	92.5 – 97.4%	90.0%
IL-19.0	Ndesign = 90	93.0 – 96.0%	90.0%
IL-19.0, IL-19.0L	Ndesign < 90	93.0 [2/]– 97.4%	90.0%
SMA	Ndesign = 50 & 80	93.5 – 97.4%	91.0%"

80246

WARM MIX ASPHALT (BDE)

Effective: January 1, 2012
Revised: April 1, 2016

Description. This work shall consist of designing, producing and constructing Warm Mix Asphalt (WMA) in lieu of Hot Mix Asphalt (HMA) at the Contractor's option. Work shall be according to Sections 406, 407, 408, 1030, and 1102 of the Standard Specifications, except as modified herein. In addition, any references to HMA in the Standard Specifications, or the special provisions shall be construed to include WMA.

WMA is an asphalt mixture which can be produced at temperatures lower than allowed for HMA utilizing approved WMA technologies. WMA technologies are defined as the use of additives or processes which allow a reduction in the temperatures at which HMA mixes are produced and placed. WMA is produced by the use of additives, a water foaming process, or combination of both. Additives include minerals, chemicals or organics incorporated into the asphalt binder stream in a dedicated delivery system. The process of foaming injects water into the asphalt binder stream, just prior to incorporation of the asphalt binder with the aggregate.

Approved WMA technologies may also be used in HMA provided all the requirements specified herein, with the exception of temperature, are met. However, asphalt mixtures produced at temperatures in excess of 275 °F (135 °C) will not be considered WMA when determining the grade reduction of the virgin asphalt binder grade.

Equipment.

Revise the first paragraph of Article 1102.01 of the Standard Specifications to read:

"**1102.01 Hot-Mix Asphalt Plant.** The hot-mix asphalt (HMA) plant shall be the batch-type, continuous-type, or dryer drum plant. The plants shall be evaluated for prequalification rating and approval to produce HMA according to the current Bureau of Materials and Physical Research Policy Memorandum, "Approval of Hot-Mix Asphalt Plants and Equipment". Once approved, the Contractor shall notify the Bureau of Materials and Physical Research to obtain approval of all plant modifications. The plants shall not be used to produce mixtures concurrently for more than one project or for private work unless permission is granted in writing by the Engineer. The plant units shall be so designed, coordinated and operated that they will function properly and produce HMA having uniform temperatures and compositions within the tolerances specified. The plant units shall meet the following requirements."

Add the following to Article 1102.01(a) of the Standard Specifications.

"(11) Equipment for Warm Mix Technologies.

a. Foaming. Metering equipment for foamed asphalt shall have an accuracy of ± 2 percent of the actual water metered. The foaming control system shall be electronically interfaced with the asphalt binder meter.

b. Additives. Additives shall be introduced into the plant according to the supplier's recommendations and shall be approved by the Engineer. The system for introducing the WMA additive shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes."

Mix Design Verification.

Add the following to Article 1030.04 of the Standard Specifications.

"(e) Warm Mix Technologies.

(1) Foaming. WMA mix design verification will not be required when foaming technology is used alone (without WMA additives). However, the foaming technology shall only be used on HMA designs previously approved by the Department.

(2) Additives. WMA mix designs utilizing additives shall be submitted to the Engineer for mix design verification."

Construction Requirements.

Revise the second paragraph of Article 406.06(b)(1) of the Standard Specifications to read:

"The HMA shall be delivered at a temperature of 250 to 350 °F (120 to 175 °C). WMA shall be delivered at a minimum temperature of 215 °F (102 °C)."

Basis of Payment.

This work will be paid at the contract unit price bid for the HMA pay items involved. Anti-strip will not be paid for separately, but shall be considered as included in the cost of the work.

80288

COARSE AGGREGATE QUALITY (BDE)

Effective: July 1, 2015

Revise Article 1004.01(b) of the Standard Specifications to read:

"(b) Quality. The coarse aggregate shall be according to the quality standards listed in the following table.

COARSE AGGREGATE QUALITY				
QUALITY TEST	CLASS			
	A	B	C	D
Na_2SO_4 Soundness 5 Cycle, ITP 104 [1/], % Loss max.	15	15	20	25 [2/]
Los Angeles Abrasion, ITP 96 [11/], % Loss max.	40 [3/]	40 [4/]	40 [5/]	45
Minus No. 200 (75 µm) Sieve Material, ITP 11	1.0 [6/]	---	2.5 [7/]	---
Deleterious Materials [10/]				
Shale, % max.	1.0	2.0	4.0 [8/]	---
Clay Lumps, % max.	0.25	0.5	0.5 [8/]	---
Coal & Lignite, % max.	0.25	---	---	---
Soft & Unsound Fragments, % max.	4.0	6.0	8.0 [8/]	---
Other Deleterious, % max.	4.0 [9/]	2.0	2.0 [8/]	---
Total Deleterious, % max.	5.0	6.0	10.0 [8/]	---
Oil-Stained Aggregate [10/], % max	5.0	---	---	

1/ Does not apply to crushed concrete.

2/ For aggregate surface course and aggregate shoulders, the maximum percent loss shall be 30.

3/ For portland cement concrete, the maximum percent loss shall be 45.

4/ Does not apply to crushed slag or crushed steel slag.

5/ For hot-mix asphalt (HMA) binder mixtures, except when used as surface course, the maximum percent loss shall be 45.

6/ For crushed aggregate, if the material finer than the No. 200 (75 µm) sieve consists of the dust from fracture, essentially free from clay or silt, this percentage may be increased to 2.5.

7/ Does not apply to aggregates for HMA binder mixtures.

8/ Does not apply to Class A seal and cover coats.

9/ Includes deleterious chert. In gravel and crushed gravel aggregate, deleterious chert shall be the lightweight fraction separated in a 2.35 heavy media separation. In crushed stone aggregate, deleterious chert shall be the lightweight fraction separated in a 2.55 heavy media separation. Tests shall be run according to ITP 113.

10/ Test shall be run according to ITP 203.

11/ Does not apply to crushed slag.

All varieties of chert contained in gravel coarse aggregate for portland cement concrete, whether crushed or uncrushed, pure or impure, and irrespective of color, will be classed as chert and shall not be present in the total aggregate in excess of 25 percent by weight (mass).

Aggregates used in Class BS concrete (except when poured on subgrade), Class PS concrete, and Class PC concrete (bridge superstructure products only, excluding the approach slab) shall contain no more than two percent by weight (mass) of deleterious materials. Deleterious materials shall include substances whose disintegration is accompanied by an increase in volume which may cause spalling of the concrete."

80360

ERRATA FOR THE 2016 STANDARD SPECIFICATIONS (BDE)

Effective: April 1, 2016

Page 84 Article 204.02. In the seventh line of the first paragraph change “AASHTO T 99 (Method C)” to “Illinois Modified AASHTO T 99 (Method C)”.

Page 90 Article 205.06. In the first sentence of the third paragraph change “AASHTO T 99 (Method C)” to “Illinois Modified AASHTO T 99 (Method C)”.

Page 91 Article 205.06. In the first sentence of the fourth paragraph change “AASHTO T 99 (Method C)” to “Illinois Modified AASHTO T 99 (Method C)”, and in the second sentence change “AASHTO T 224” to “Illinois Modified AASHTO T 99 (Annex A1)”.

Page 91 Article 205.06. In the second line of the fifth paragraph change “AASHTO T 191” to “Illinois Modified AASHTO T 191”.

Page 91 Article 205.06. In the sixth line of the eighth paragraph change “AASHTO T 99 (Method C)” to “Illinois Modified AASHTO T 99 (Method C)”.

Page 148 Article 302.09. In the second sentence of the fifth paragraph change “AASHTO T 191” to “Illinois Modified AASHTO T 191”, and in the third sentence change “AASHTO T 99” to “Illinois Modified AASHTO T 99”.

Page 152 Article 310.09. In the second sentence of the second paragraph change “AASHTO T 191” to “Illinois Modified AASHTO T 191”, and in the third sentence change “AASHTO T 99” to “Illinois Modified AASHTO T 99”.

Page 155 Article 311.05(a). In the first sentence of the fifth paragraph change “AASHTO T 99 (Method C)” to “Illinois Modified AASHTO T 99 (Method C)”, and in the second sentence change “AASHTO T 224” to “Illinois Modified AASHTO T 99 (Annex A1)”.

Page 155 Article 311.05(a). In the second line of the sixth paragraph change “AASHTO T 191” to “Illinois Modified AASHTO T 191”.

Page 163 Article 351.05(a). In the second sentence of the fifth paragraph change “AASHTO T 99 (Method C)” to “Illinois Modified AASHTO T 99 (Method C)”, and in the third sentence change “AASHTO T 224” to “Illinois Modified AASHTO T 99 (Annex A1)”.

Page 163 Article 351.05(a). In the second line of the sixth paragraph change “AASHTO T 191” to “Illinois Modified AASHTO T 191”.

Page 169 Article 352.11. In the second sentence of the fourth paragraph change “AASHTO T 191” to “Illinois Modified AASHTO T 191”, and in the third sentence change “AASHTO T 134 (Method B)” to “Illinois Modified AASHTO T 134 (Method B)”.

Page 169 Article 352.12. In the first sentence of the first paragraph change “AASHTO T 22” to “Illinois Modified AASHTO T 22”, and in the second sentence change “AASHTO T 134 (Method B)” to “Illinois Modified AASHTO T 134 (Method B)”.

Page 196 Article 406.07(a). After the footnotes in Table 1 - Minimum Roller Requirements for HMA add the following:

“<u>EQUIPMENT DEFINITION</u>

V_S - Vibratory roller, static mode, minimum 125 lb/in. (2.2 kg/mm) of roller width. Maximum speed = 3 mph (5 km/h) or 264 ft/min (80 m/min). If the vibratory roller does not eliminate roller marks, its use shall be discontinued and a tandem roller, adequately ballasted to remove roller marks, shall be used.

V_D - Vibratory roller, dynamic mode, operated at a speed to produce not less than 10 impacts/ft (30 impacts/m).

P - Pneumatic-tired roller, max. speed 3 1/2 mph (5.5 km/h) or 308 ft/min (92 m/min). The pneumatic-tired roller shall have a minimum tire pressure of 80 psi (550 kPa) and shall be equipped with heat retention shields. The self-propelled pneumatic-tired roller shall develop a compression of not less than 300 lb (53 N) nor more than 500 lb (88 N) per in. (mm) of width of the tire tread in contact with the HMA surface.

T_B - Tandem roller for breakdown rolling, 8 to 12 tons (7 to 11 metric tons), 250 to 400 lb/in. (44 to 70 N/mm) of roller width, max. speed = 3 1/2 mph (5.5 km/h) or 308 ft/min (92 m/min).

T_F - Tandem roller for final rolling, 200 to 400 lb/in. (35 to 70 N/mm) of roller width with minimum roller width of 50 in. (1.25 m). Ballast shall be increased if roller marks are not eliminated. Ballast shall be decreased if the mat shoves or distorts.

3W - Three wheel roller, max. speed = 3 mph (5 km/h) or 264 ft/min (80 m/min), 300 to 400 lb/in. (53 to 70 N/mm) of roller width. The three-wheel roller shall weigh 10 to 12 tons (9 to 11 metric tons).”

Page 331 Article 505.04(p). Under Range of Clearance in the first table change “in. x 10^{-6}” to “in. x 10^{-3}”.

Page 444 Article 542.03. In the Notes in Table IIIB add “CPP Corrugated Polypropylene (CPP) pipe with smooth interior”.

Page 445 Article 542.03. In the fourth column in Table IIIB (metric) change the heading for Type 5 pipe from “CPE” to “CPP”.

Page 445 Article 542.03. In the Notes in Table IIIB (metric) change “PE Polyethylene (PE) pipe with a smooth interior” to “CPP Corrugated Polypropylene (CPP) pipe with smooth interior”.

Page 449 Article 542.04(f)(2). In the third line of the second paragraph change “AASHTO T 99 (Method C)” to “Illinois Modified AASHTO T 99 (Method C)”.

Page 544 Article 639.03. In the first sentence of the first paragraph change “AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, Traffic Signals,” to “AASHTO “LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals,””.

Page 546 Article 640.03. In the first sentence of the first paragraph change “AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals” to “AASHTO “LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals””.

Page 548 Article 641.03. In the first sentence of the first paragraph change “AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaire and Traffic Signals,” to “AASHTO “LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals,””.

Page 621 Article 727.03. In the first sentence of the third paragraph change “AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals” to “AASHTO “LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals””.

Page 629 Article 734.03(a). In the fourth line of the second paragraph change “AASHTO T 99 (Method C)” to “Illinois Modified AASHTO T 99 (Method C)”.

Page 649 Article 801.02. In the first sentence of the first paragraph change “AASHTO’s Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals” to “AASHTO “LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals””.

Page 742 Article 1003.04(c). Under Gradation in the table change “(see Article 1003.02(c))” to “(see Article 1003.01(c))”.

Page 755 Article 1004.03(b). Revise the third sentence of the first paragraph to read “For Class A (seal or cover coat), and other binder courses, the coarse aggregate shall be Class C quality or better.”.

Page 809 Article 1020.04(e). In the third line of the first paragraph change “ITP SCC-3” to “ITP SCC-4”.

Page 945 Article 1069.05. In the first sentence of the tenth paragraph change ““Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals”” to “AASHTO “LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals””.

Page 961 Article 1070.04(b)(1). In the third sentence of the first paragraph change ““Standard Specifications of Structural Supports for Highway Signs, Luminaires and Traffic Signals” published by AASHTO” to “AASHTO “LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals””.

Page 989 Article 1077.01. In the second sentence of the first paragraph change “Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, as published by AASHTO” to “AASHTO “LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals””.

Page 1121 Article 1103.13(a). In the first line of the first paragraph change “Bridge Deck Approach Slabs.” to “Bridge Deck and Approach Slabs.”.

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FRICTION AGGREGATE (D-1)

Effective: January 1, 2011
Revised: July 24, 2015

Revise Article 1004.01(a)(4) of the Standard Specifications to read:

"(4) Crushed Stone. Crushed stone shall be the angular fragments resulting from crushing undisturbed, consolidated deposits of rock by mechanical means. Crushed stone shall be divided into the following, when specified.

a. Carbonate Crushed Stone. Carbonate crushed stone shall be either dolomite or limestone. Dolomite shall contain 11.0 percent or more magnesium oxide (MgO). Limestone shall contain less than 11.0 percent magnesium oxide (MgO).

b. Crystalline Crushed Stone. Crystalline crushed stone shall be either metamorphic or igneous stone, including but is not limited to, quartzite, granite, rhyolite and diabase."

Revise Article 1004.03(a) of the Standard Specifications to read:

"**1004.03 Coarse Aggregate for Hot-Mix Asphalt (HMA).** The aggregate shall be according to Article 1004.01 and the following.

(a) Description. The coarse aggregate for HMA shall be according to the following table.

Use	Mixture	Aggregates Allowed
Class A	Seal or Cover	Allowed Alone or in Combination [5/]: Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete
HMA Low ESAL	Stabilized Subbase or Shoulders	Allowed Alone or in Combination [5/]: Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag[1/] Crushed Concrete
HMA High ESAL Low ESAL	Binder IL-19.0 or IL-19.0L SMA Binder	Allowed Alone or in Combination [5/]: Crushed Gravel Carbonate Crushed Stone[2/] Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Concrete[3/]
HMA High ESAL Low ESAL	C Surface and Leveling Binder IL-9.5 or IL-9.5L SMA Ndesign 50 Surface	Allowed Alone or in Combination [5/]: Crushed Gravel Carbonate Crushed Stone[2/] Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag[4/] Crushed Concrete[3/]

Use	Mixture	Aggregates Allowed	
HMA High ESAL	D Surface and Leveling Binder IL-9.5 SMA Ndesign 50 Surface	<u>Allowed Alone or in Combination</u> [5/]: Crushed Gravel Carbonate Crushed Stone (other than Limestone)[2/] Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag[4/] Crushed Concrete[3/]	
		<u>Other Combinations Allowed:</u>	
		Up to...	*With...*
		25% Limestone	Dolomite
		50% Limestone	Any Mixture D aggregate other than Dolomite
		75% Limestone	Crushed Slag (ACBF) or Crushed Sandstone
HMA High ESAL	E Surface IL-9.5 SMA Ndesign 80 Surface	<u>Allowed Alone or in Combination</u> [5/]: Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag No Limestone.	
		<u>Other Combinations Allowed:</u>	
		Up to...	*With...*
		50% Dolomite[2/]	Any Mixture E aggregate
		75% Dolomite[2/]	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone

Use	Mixture	Aggregates Allowed	
		75% Crushed Gravel[2/] or Crushed Concrete[3/]	Crushed Sandstone, Crystalline Crushed Stone, Crushed Slag (ACBF), or Crushed Steel Slag
HMA High ESAL	F Surface IL-9.5 SMA Ndesign 80 Surface	<u>Allowed Alone or in Combination</u> [5/]: Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag No Limestone.	
		<u>Other Combinations Allowed</u>:	
		Up to...	*With...*
		50% Crushed Gravel[2/], Crushed Concrete[3/], or Dolomite[2/]	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone

1/ Crushed steel slag allowed in shoulder surface only.
2/ Carbonate crushed stone and/or crushed gravel shall not be used in SMA Ndesign 80. In SMA Ndesign 50, carbonate crushed stone shall not be blended with any of the other aggregates allowed alone in Ndesign 50 SMA binder or Ndesign 50 SMA surface.
3/ Crushed concrete will not be permitted in SMA mixes.
4/ Crushed steel slag shall not be used as leveling binder.
5/ When combinations of aggregates are used, the blend percent measurements shall be by volume."

HMA MIXTURE DESIGN REQUIREMENTS (D-1)

Effective: January 1, 2013
Revised: April 1, 2016

1) Design Composition and Volumetric Requirements

Revise the table in Article 406.06(d) of the Standard Specifications to read:

"MINIMUM COMPACTED LIFT THICKNESS	
Mixture Composition	Thickness, in. (mm)
IL-4.75	3/4 (19)
SMA-9.5, IL-9.5, IL-9.5L	1 1/2 (38)
SMA-12.5	2 (50)
IL-19.0, IL-19.0L	2 1/4 (57)"

Revise the table in Article 1004.03(c) of the Standard Specifications to read:

"Use	Size/Application	Gradation No.
Class A-1, 2, & 3	3/8 in. (10 mm) Seal	CA 16
Class A-1	1/2 in. (13 mm) Seal	CA 15
Class A-2 & 3	Cover	CA 14
HMA High ESAL	IL-19.0 IL-9.5	CA 11 1/ CA 16, CA 13 3/
HMA Low ESAL	IL-19.0L IL-9.5L Stabilized Subbase or Shoulders	CA 11 1/ CA 16
SMA 2/	1/2 in. (12.5mm) Binder & Surface IL 9.5 Surface	CA13 3/, CA14 or CA16 CA16, CA 13 3/

1/ CA 16 or CA 13 may be blended with the gradations listed.
2/ The coarse aggregates used shall be capable of being combined with stone sand, slag sand, or steel slag sand meeting the FA/FM 20 gradation and mineral filler to meet the approved mix design and the mix requirements noted herein.
3/ CA 13 shall be 100 percent passing the 1/2 in. (12.5mm) sieve.

Revise Article 1004.03(e) of the Supplemental Specifications to read:

"(e) Absorption. For SMA the coarse aggregate shall also have water absorption ≤ 2.0 percent."

Revise the last paragraph of Article 1102.01 (a) (5) of the Standard Specifications to read:

> "IL-4.75 and Stone Matrix Asphalt (SMA) mixtures which contain aggregate having absorptions greater than or equal to 2.0 percent, or which contain steal slag sand, shall have minimum surge bin storage plus haul time of 1.5 hours."

Revise the nomenclature table in Article 1030.01 of the Standard Specifications to read:

"High ESAL	IL-19.0 binder; IL-9.5 surface; IL-4.75; SMA-12.5, SMA-9.5
Low ESAL	IL-19.0L binder; IL-9.5L surface; Stabilized Subbase (HMA)[1/]; HMA Shoulders[2/]

1/ Uses 19.0L binder mix.

2/ Uses 19.0L for lower lifts and 9.5L for surface lift."

Revise Article 1030.02 of the Standard Specifications and Supplemental Specifications to read:

"**1030.02 Materials.** Materials shall be according to the following.

Item	Article/Section
(a) Coarse Aggregate	1004.03
(b) Fine Aggregate	1003.03
(c) RAP Material	1031
(d) Mineral Filler	1011
(e) Hydrated Lime	1012.01
(f) Slaked Quicklime (Note 1)	
(g) Performance Graded Asphalt Binder (Note 2)	1032
(h) Fibers (Note 3)	
(i) Warm Mix Asphalt (WMA) Technologies (Note 4)	

Note 1. Slaked quicklime shall be according to ASTM C 5.

Note 2. The asphalt binder shall be an SBS PG 76-28 when the SMA is used on a full-depth asphalt pavement and SBS PG 76-22 when used as an overlay, except where modified herein. The asphalt binder shall be an Elvaloy or SBS PG 76-22 for IL-4.75, except where modified herein. The elastic recovery shall be a minimum of 80.

Note 3. A stabilizing additive such as cellulose or mineral fiber shall be added to the SMA mixture according to Illinois Modified AASHTO M 325. The stabilizing additive shall meet the Fiber Quality Requirements listed in Illinois Modified AASHTO M 325. Prior to approval and use of fibers, the Contractor shall submit a notarized certification by the producer of these materials stating they meet these requirements. Reclaimed Asphalt Shingles (RAS) may be used in Stone Matrix Asphalt (SMA) mixtures designed with an SBA polymer modifier as a fiber additive if the mix design with RAS included meets AASHTO T305 requirements. The RAS shall be from a certified source that

produces either Type I or Type 2. Material shall meet requirements noted herein and the actual dosage rate will be determined by the Engineer.

Note 4. Warm mix additives or foaming processes shall be selected from the current Bureau of Materials and Physical Research Approved List, "Warm Mix Asphalt Technologies"."

Revise Article 1030.04(a)(1) of the Standard Specifications and the Supplemental Specifications to read:

"(1) High ESAL Mixtures. The Job Mix Formula (JMF) shall fall within the following limits.

High ESAL, MIXTURE COMPOSITION (% PASSING) 1/										
Sieve Size	IL-19.0 mm		SMA 4/ IL-12.5 mm		SMA 4/ IL-9.5 mm		IL-9.5 mm		IL-4.75 mm	
	min	max	min	max	min	max	min	max	min	max
1 1/2 in (37.5 mm)										
1 in. (25 mm)		100								
3/4 in. (19 mm)	90	100		100						
1/2 in. (12.5 mm)	75	89	80	100		100		100		100
3/8 in. (9.5 mm)				65	90	100	90	100		100
#4 (4.75 mm)	40	60	20	30	36	50	34	69	90	100
#8 (2.36 mm)	20	42	16	24 5/	16	32 5/	34 6/	52 2/	70	90
#16 (1.18 mm)	15	30					10	32	50	65
#30 (600 μm)			12	16	12	18				
#50 (300 μm)	6	15					4	15	15	30
#100 (150 μm)	4	9					3	10	10	18
#200 (75 μm)	3	6	7.0	9.0 3/	7.5	9.5 3/	4	6	7	9 3/
Ratio Dust/Asphalt Binder		1.0		1.5		1.5		1.0		1.0

1/ Based on percent of total aggregate weight.

2/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign = 90.

3/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.

4/ The maximum percent passing the #635 (20 µm) sieve shall be ≤ 3 percent.

5/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above the percentage stated on the table.

6/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted below 34 percent.

Revise Article 1030.04(b)(1) of the Standard Specifications to read:

"(1) High ESAL Mixtures. The target value for the air voids of the HMA shall be 4.0 percent and for IL-4.75 it shall be 3.5 percent at the design number of gyrations. The VMA and VFA of the HMA design shall be based on the nominal maximum size of the aggregate in the mix, and shall conform to the following requirements.

VOLUMETRIC REQUIREMENTS High ESAL				
	Voids in the Mineral Aggregate (VMA), % minimum			Voids Filled with Asphalt Binder (VFA), %
Ndesign	IL-19.0	IL-9.5	IL-4.75[1/]	
50	13.5	15.0	18.5	65 – 78 [2/]
70				65 - 75
90				

1/ Maximum Draindown for IL-4.75 shall be 0.3 percent

2/ VFA for IL-4.75 shall be 72-85 percent"

Replace Article 1030.04(b)(3) of the Standard Specifications with the following:

"(3) SMA Mixtures.

Volumetric Requirements SMA [1/]			
Ndesign	Design Air Voids Target %	Voids in the Mineral Aggregate (VMA), % min.	Voids Filled with Asphalt (VFA), %
80 [4/]	3.5	17.0 [2/]	75 - 83
		16.0 [3/]	

1/ Maximum draindown shall be 0.3 percent. The draindown shall be determined at the JMF asphalt binder content at the mixing temperature plus 30 °F.

2/ Applies when specific gravity of coarse aggregate is ≥ 2.760.

3/ Applies when specific gravity of coarse aggregate is < 2.760.

4/ Blending of different types of aggregate will not be permitted.
For surface course, the coarse aggregate can be crushed steel slag, crystalline crushed stone or crushed sandstone. For binder course, coarse aggregate shall be crushed stone (dolomite), crushed gravel, crystalline crushed stone, or crushed sandstone.

Add to the end of Article 1030.05 (d) (2) a. of the Standard Specifications:

"During production, the Contractor shall test SMA mixtures for draindown according to AASHTO T305 at a frequency of 1 per day of production."

Delete last sentence of the second paragraph of Article 1102.01(a) (4) b. 2.

Add to the end of Article 1102.01 (a) (4) b. 2.:

"As an option, collected dust (baghouse) may be used in lieu of manufactured mineral filler according to the following:

(a.) Sufficient collected dust (baghouse) is available for production of the SMA mix for the entire project.

(b.) A mix design was prepared based on collected dust (baghouse).

2) Design Verification and Production

Revise Article 1030.04 (d) of the Standard Specifications to read:

"(d) Verification Testing. High ESAL, IL-4.75, and SMA mix designs submitted for verification will be tested to ensure that the resulting mix designs will pass the required criteria for the Hamburg Wheel Test (IL mod AASHTO T-324) and the Tensile Strength Test (IL mod AASHTO T-283). The Department will perform a verification test on gyratory specimens compacted by the Contractor. If the mix fails the Department's verification test, the Contractor shall make the necessary changes to the mix and resubmit compacted specimens to the Department for verification. If the mix fails again, the mix design will be rejected.

All new and renewal mix designs will be required to be tested, prior to submittal for Department verification and shall meet the following requirements:

(1)Hamburg Wheel Test criteria. The maximum allowable rut depth shall be 0.5 in. (12.5 mm). The minimum number of wheel passes at the 0.5 in. (12.5 mm) rut depth criteria shall be based on the high temperature binder grade of the mix as specified in the mix requirements table of the plans.

Illinois Modified AASHTO T 324 Requirements [1/]

Asphalt Binder Grade	# Repetitions	Max Rut Depth (mm)
PG 70 -XX (or higher)	20,000	12.5
PG 64 -XX (or lower)	10,000	12.5

1/ When produced at temperatures of 275 ± 5 °F (135 ± 3 °C) or less, loose Warm Mix Asphalt shall be oven aged at 270 ± 5 °F (132 ± 3 °C) for two hours prior to gyratory compaction of Hamburg Wheel specimens.

Note: For SMA Designs (N-80) the maximum rut depth is 6.0 mm at 20,000 repetitions.
For IL 4.75mm Designs (N-50) the maximum rut depth is 9.0mm at 15,000 repetitions.

(2) Tensile Strength Criteria. The minimum allowable conditioned tensile strength shall be 60 psi (415 kPa) for non-polymer modified performance graded (PG) asphalt binder and 80 psi (550 kPa) for polymer modified PG asphalt binder. The maximum allowable unconditioned tensile strength shall be 200 psi (1380 kPa)."

Production Testing. Revise first paragraph of Article 1030.06(a) of the Standard Specifications to read:

"(a) High ESAL, IL-4.75, WMA, and SMA Mixtures. For each contract, a 300 ton (275 metric tons) test strip, except for SMA mixtures it will be 400 ton (363 metric ton), will be required at the beginning of HMA production for each mixture with a quantity of 3000 tons (2750 metric tons) or more according to the Manual of Test Procedures for Materials "Hot Mix Asphalt Test Strip Procedures".

Add the following after the sixth paragraph in Article 1030.06 (a) of the Standard Specifications:

"The Hamburg Wheel test shall also be conducted on all HMA mixtures from a sample taken within the first 500 tons (450 metric tons) on the first day of production or during start up with a split reserved for the Department. The mix sample shall be tested according to the Illinois Modified AASHTO T 324 and shall meet the requirements specified herein. Mix production shall not exceed 1500 tons (1350 metric tons) or one day's production, whichever comes first, until the testing is completed and the mixture is found to be in conformance. The requirement to cease mix production may be waived if the plant produced mixture demonstrates conformance prior to start of mix production for a contract.
If the mixture fails to meet the Hamburg Wheel criteria, no further mixture will be accepted until the Contractor takes such action as is necessary to furnish a mixture meeting the criteria"

Method of Measurement:

Add the following after the fourth paragraph of Article 406.13 (b):

“The plan quantities of SMA mixtures shall be adjusted using the actual approved binder and surface Mix Design’s G_{mb}.”

Basis of Payment.

Replace the fourth paragraph of Article 406.14 of the Standard Specifications with the following:

> “Stone matrix asphalt will be paid for at the contract unit price per ton (metric ton) for POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, of the mixture composition and Ndesign specified; and POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, of the mixture composition and Ndesign specified.”

RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (D-1)

Effective: November 1, 2012
Revise: April 2, 2016

Revise Section 1031 of the Standard Specifications to read:

"**SECTION 1031. RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES**

1031.01 Description. Reclaimed asphalt pavement and reclaimed asphalt shingles shall be according to the following.

(a) Reclaimed Asphalt Pavement (RAP). RAP is the material resulting from cold milling or crushing an existing hot-mix asphalt (HMA) pavement. RAP will be considered processed FRAP after completion of both crushing and screening to size. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.

(b) Reclaimed Asphalt Shingles (RAS). Reclaimed asphalt shingles (RAS). RAS is from the processing and grinding of preconsumer or post-consumer shingles. RAS shall be a clean and uniform material with a maximum of 0.5 percent unacceptable material, as defined in Bureau of Materials and Physical Research Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Sources", by weight of RAS. All RAS used shall come from a Bureau of Materials and Physical Research approved processing facility where it shall be ground and processed to 100 percent passing the 3/8 in. (9.5 mm) sieve and 90 percent passing the #4 (4.75 mm) sieve. RAS shall meet the testing requirements specified herein. In addition, RAS shall meet the following Type 1 or Type 2 requirements.

(1) Type 1. Type 1 RAS shall be processed, preconsumer asphalt shingles salvaged from the manufacture of residential asphalt roofing shingles.

(2) Type 2. Type 2 RAS shall be processed post-consumer shingles only, salvaged from residential, or four unit or less dwellings not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP).

1031.02 Stockpiles. RAP and RAS stockpiles shall be according to the following.

(a) RAP Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. Additional processed RAP (FRAP) shall be stockpiled in a separate working pile, as designated in the QC Plan, and only added to the sealed stockpile when test results for the working pile are complete and are found to meet tolerances specified herein for the original sealed FRAP stockpile. Stockpiles shall be sufficiently separated to prevent intermingling at the base. All stockpiles (including

unprocessed RAP and FRAP) shall be identified by signs indicating the type as listed below (i.e. “Non- Quality, FRAP -#4 or Type 2 RAS”, etc…).

(1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, Superpave HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in FRAP shall be crushed aggregate and may represent more than one aggregate type and/or quality, but shall be at least C quality. All FRAP shall be processed prior to testing and sized into fractions with the separation occurring on or between the #4 (4.75 mm) and 1/2 in. (12.5 mm) sieves. Agglomerations shall be minimized such that 100 percent of the RAP in the coarse fraction shall pass the maximum sieve size specified for the mix the FRAP will be used in.

(2) Restricted FRAP (B quality) stockpiles shall consist of RAP from Class I, Superpave (High ESAL), or HMA (High ESAL). If approved by the Engineer, the aggregate from a maximum 3.0 in. (75 mm) single combined pass of surface/binder milling will be classified as B quality. All millings from this application will be processed into FRAP as described previously.

(3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, Superpave HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality, but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate RAP shall be processed (FRAP) prior to testing. Conglomerate RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.

(4) Conglomerate “D” Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from HMA shoulders, bituminous stabilized subbases or Superpave (Low ESAL)/HMA (Low ESAL) IL-19.0L binder mixture. The coarse aggregate in this RAP may be crushed or round but shall be at least D quality. This RAP may have an inconsistent gradation and/or asphalt binder content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.

(5) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as “Non-Quality”.

RAP or FRAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, joint sealants, plant cleanout etc., will be unacceptable unless the contaminants are removed to the satisfaction of the Engineer. Sheet asphalt shall be stockpiled separately.

(b) RAS Stockpiles. Type 1 and Type 2 RAS shall be stockpiled separately and shall be sufficiently separated to prevent intermingling at the base. Each stockpile shall be signed indicating what type of RAS is present.

However, a RAS source may submit a written request to the Department for approval to blend mechanically a specified ratio of Type 1 RAS with Type 2 RAS. The source will not be permitted to change the ratio of the blend without the Department prior written approval. The Engineer's written approval will be required, to mechanically blend RAS with any fine aggregate produced under the AGCS, up to an equal weight of RAS, to improve workability. The fine aggregate shall be "B Quality" or better from an approved Aggregate Gradation Control System source. The fine aggregate shall be one that is approved for use in the HMA mixture and accounted for in the mix design and during HMA production.

Records identifying the shingle processing facility supplying the RAS, RAS type, and lot number shall be maintained by project contract number and kept for a minimum of three years.

1031.03 Testing. FRAP and RAS testing shall be according to the following.

(a) FRAP Testing. When used in HMA, the FRAP shall be sampled and tested either during processing or after stockpiling. It shall also be sampled during HMA production.

(1) During Stockpiling. For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).

(2) Incoming Material. For testing as incoming material, washed extraction samples shall be run at a minimum frequency of one sample per 2000 tons (1800 metric tons) or once per week, whichever comes first.

(3) After Stockpiling. For testing after stockpiling, the Contractor shall submit a plan for approval to the District proposing a satisfactory method of sampling and testing the RAP/FRAP pile either in-situ or by restockpiling. The sampling plan shall meet the minimum frequency required above and detail the procedure used to obtain representative samples throughout the pile for testing.

Before extraction, each field sample of FRAP, shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedure. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

(b) RAS Testing. RAS shall be sampled and tested during stockpiling according to Bureau of Materials and Physical Research Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Sources". The Contractor shall also sample as incoming material at the HMA plant.

(1) During Stockpiling. Washed extraction and testing for unacceptable materials shall be run at the minimum frequency of one sample per 200 tons (180 metric tons) for the first 1000 tons (900 metric tons) and one sample per 1000 tons (900 metric tons) thereafter. A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). Once a ≤ 1000 ton (900 metric ton), five-sample/test stockpile has been established it shall be sealed. Additional incoming RAS shall be in a separate working pile as designated in the Quality Control plan and only added to the sealed stockpile when the test results of the working pile are complete and are found to meet the tolerances specified herein for the original sealed RAS stockpile.

(2) Incoming Material. For testing as incoming material at the HMA plant, washed extraction shall be run at the minimum frequency of one sample per 250 tons (227 metric tons). A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). The incoming material test results shall meet the tolerances specified herein.

The Contractor shall obtain and make available all test results from start of the initial stockpile sampled and tested at the shingle processing facility in accordance with the facility's QC Plan.

Before extraction, each field sample shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedures. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

1031.04 Evaluation of Tests. Evaluation of test results shall be according to the following.

(a) Evaluation of FRAP Test Results. All test results shall be compiled to include asphalt binder content, gradation and, when applicable (for slag), G_{mm}. A five test average of results from the original pile will be used in the mix designs. Individual extraction test results run thereafter, shall be compared to the average used for the mix design, and will be accepted if within the tolerances listed below.

Parameter	FRAP
No. 4 (4.75 mm)	± 6 %
No. 8 (2.36 mm)	± 5 %
No. 30 (600 μm)	± 5 %
No. 200 (75 μm)	± 2.0 %
Asphalt Binder	± 0.3 %
G_{mm}	± 0.03 [1/]

1/ For stockpile with slag or steel slag present as determined in the current Manual of Test Procedures Appendix B 21, “Determination of Reclaimed Asphalt Pavement Aggregate Bulk Specific Gravity”.

If any individual sieve and/or asphalt binder content tests are out of the above tolerances when compared to the average used for the mix design, the FRAP stockpile shall not be used in Hot-Mix Asphalt unless the FRAP representing those tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

The Contractor shall maintain a representative moving average of five tests to be used for Hot-Mix Asphalt production.

With the approval of the Engineer, the ignition oven may be substituted for extractions according to the ITP, “Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)” or Illinois Modified AASHTO T-164-11, Test Method A.

(b) Evaluation of RAS Test Results. All of the test results, with the exception of percent unacceptable materials, shall be compiled and averaged for asphalt binder content and gradation. A five test average of results from the original pile will be used in the mix designs. Individual test results run thereafter, when compared to the average used for the mix design, will be accepted if within the tolerances listed below.

Parameter	RAS
No. 8 (2.36 mm)	± 5 %
No. 16 (1.18 mm)	± 5 %
No. 30 (600 µm)	± 4 %
No. 200 (75 µm)	± 2.5 %
Asphalt Binder Content	± 2.0 %

If any individual sieve and/or asphalt binder content tests are out of the above tolerances when compared to the average used for the mix design, the RAS shall not be used in Hot-Mix Asphalt unless the RAS representing those tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

(c) Quality Assurance by the Engineer. The Engineer may witness the sampling and splitting conduct assurance tests on split samples taken by the Contractor for quality control testing a minimum of once a month.

The overall testing frequency will be performed over the entire range of Contractor samples for asphalt binder content and gradation. The Engineer may select any or all split samples for assurance testing. The test results will be made available to the Contractor as soon as they become available.

The Engineer will notify the Contractor of observed deficiencies.

Differences between the Contractor's and the Engineer's split sample test results will be considered acceptable if within the following limits.

Test Parameter	Acceptable Limits of Precision	
% Passing:[1/]	FRAP	RAS
1/2 in.	5.0%	
No. 4	5.0%	
No. 8	3.0%	4.0%
No. 30	2.0%	3.0%
No. 200	2.2%	2.5%
Asphalt Binder Content	0.3%	1.0%
G_{mm}	0.030	

1/ Based on washed extraction.

In the event comparisons are outside the above acceptable limits of precision, the Engineer will immediately investigate.

(d) Acceptance by the Engineer. Acceptable of the material will be based on the validation of the Contractor's quality control by the assurance process.

1031.05 Quality Designation of Aggregate in RAP and FRAP.

(a) RAP. The aggregate quality of the RAP for homogeneous, conglomerate, and conglomerate "D" quality stockpiles shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.

(1) RAP from Class I, Superpave/HMA (High ESAL), or (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.

(2) RAP from Superpave/HMA (Low ESAL) IL-19.0L binder mixture is designated as Class D quality coarse aggregate.

(3) RAP from Class I, Superpave/HMA (High ESAL) binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate.

(4) RAP from bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate.

(b) FRAP. If the Engineer has documentation of the quality of the FRAP aggregate, the Contractor shall use the assigned quality provided by the Engineer.

If the quality is not known, the quality shall be determined as follows. Fractionated RAP stockpiles containing plus #4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5,000 tons (4,500 metric tons). The Contractor shall obtain a representative sample witnessed by the Engineer. The sample shall be a minimum of 50 lb (25 kg). The sample shall be extracted according to Illinois Modified AASHTO T 164 by a consultant laboratory prequalified by the Department for the specified testing. The consultant laboratory shall submit the test results along with the recovered aggregate to the District Office. The cost for this testing shall be paid by the Contractor. The District will forward the sample to the Bureau of Materials and Physical Research Aggregate Lab for MicroDeval Testing, according to ITP 327. A maximum loss of 15.0 percent will be applied for all HMA applications. The fine aggregate portion of the fractionated RAP shall not be used in any HMA mixtures that require a minimum of "B" quality aggregate or better, until the coarse aggregate fraction has been determined to be acceptable thru a MicroDeval Testing.

1031.06 Use of FRAP and/or RAS in HMA. The use of FRAP and/or RAS shall be the Contractor's option when constructing HMA in all contracts.

(a) FRAP. The use of FRAP in HMA shall be as follows.

(1) Coarse Aggregate Size (after extraction). The coarse aggregate in all FRAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.

(2) Steel Slag Stockpiles. FRAP stockpiles containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in HMA (High ESAL and Low ESAL) mixtures regardless of lift or mix type.

(3) Use in HMA Surface Mixtures (High and Low ESAL). FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall have coarse aggregate that is Class B quality or better. FRAP shall be considered equivalent to limestone for frictional considerations unless produced/screened to minus 3/8 inch.

(4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP in which the coarse aggregate is Class C quality or better.

(5) Use in Shoulders and Subbase. FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, Restricted FRAP, conglomerate, or conglomerate DQ.

(b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.

(c) FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with FRAP in HMA mixtures up to a maximum of 5.0 percent by weight of the total mix.

When FRAP is used alone or FRAP is used in conjunction with RAS, the percent of virgin asphalt binder replacement (ABR) shall not exceed the amounts indicated in the table below for a given N Design.

Max Asphalt Binder Replacement for FRAP with RAS Combination

HMA Mixtures 1/ 2/ 4/	Maximum % ABR		
Ndesign	Binder/Leveling Binder	Surface	Polymer Modified 3/
30L	50	40	30
50	40	35	30
70	40	30	30
90	40	30	30
4.75 mm N-50			40
SMA N-80			30

1/ For Low ESAL HMA shoulder and stabilized subbase, the percent asphalt binder replacement shall not exceed 50 % of the total asphalt binder in the mixture.

2/ When the binder replacement exceeds 15 % for all mixes, except for SMA and IL-4.75, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 % binder replacement using a virgin asphalt binder grade of PG64-22 will be reduced to a PG58-28). When constructing full depth HMA and the ABR is less than 15 %, the required virgin asphalt binder grade shall be PG64-28.

3/ When the ABR for SMA or IL-4.75 is 15 % or less, the required virgin asphalt binder shall be SBS PG76-22 and the elastic recovery shall be a minimum of 80. When the ABR for SMA or IL-4.75 exceeds 15%, the virgin asphalt binder grade shall be SBS PG70-28 and the elastic recovery shall be a minimum of 80.

4/ When FRAP or RAS is used alone, the maximum percent asphalt binder replacement designated on the table shall be reduced by 10 %.

1031.07 HMA Mix Designs. At the Contractor's option, HMA mixtures may be constructed utilizing RAP/FRAP and/or RAS material meeting the detailed requirements specified herein.

(a) FRAP and/or RAS. FRAP and /or RAS mix designs shall be submitted for verification. If additional FRAP or RAS stockpiles are tested and found to be within tolerance, as defined under "Evaluation of Tests" herein, and meet all requirements herein, the

additional FRAP or RAS stockpiles may be used in the original design at the percent previously verified.

(b) RAS. Type 1 and Type 2 RAS are not interchangeable in a mix design. A RAS stone bulk specific gravity (Gsb) of 2.300 shall be used for mix design purposes.

1031.08 HMA Production. HMA production utilizing FRAP and/or RAS shall be as follows.

To remove or reduce agglomerated material, a scalping screen, gator, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAS and FRAP feed system to remove or reduce oversized material. If material passing the sizing device adversely affects the mix production or quality of the mix, the sizing device shall be set at a size specified by the Engineer.

If during mix production, corrective actions fail to maintain FRAP, RAS or QC/QA test results within control tolerances or the requirements listed herein the Contractor shall cease production of the mixture containing FRAP or RAS and conduct an investigation that may require a new mix design.

(a) RAS. RAS shall be incorporated into the HMA mixture either by a separate weight depletion system or by using the RAP weigh belt. Either feed system shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes. The portion of RAS shall be controlled accurately to within ± 0.5 percent of the amount of RAS utilized. When using the weight depletion system, flow indicators or sensing devices shall be provided and interlocked with the plant controls such that the mixture production is halted when RAS flow is interrupted.

(b) HMA Plant Requirements. HMA plants utilizing FRAP and/or RAS shall be capable of automatically recording and printing the following information.

(1) Dryer Drum Plants.

a. Date, month, year, and time to the nearest minute for each print.

b. HMA mix number assigned by the Department.

c. Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).

d. Accumulated dry weight of RAS and FRAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).

e. Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.

f. Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.

g. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.

h. Aggregate RAS and FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAS and FRAP are printed in wet condition.)

i. When producing mixtures with FRAP and/or RAS, a positive dust control system shall be utilized.

j. Accumulated mixture tonnage.

k. Dust Removed (accumulated to the nearest 0.1 ton (0.1 metric ton))

(2) Batch Plants.

a. Date, month, year, and time to the nearest minute for each print.

b. HMA mix number assigned by the Department.

c. Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).

d. Mineral filler weight to the nearest pound (kilogram).

f. RAS and FRAP weight to the nearest pound (kilogram).

g. Virgin asphalt binder weight to the nearest pound (kilogram).

h. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.

The printouts shall be maintained in a file at the plant for a minimum of one year or as directed by the Engineer and shall be made available upon request. The printing system will be inspected by the Engineer prior to production and verified at the beginning of each construction season thereafter.

1031.09 RAP in Aggregate Surface Course and Aggregate Wedge Shoulders, Type B. The use of RAP or FRAP in aggregate surface course and aggregate shoulders shall be as follows.

(a) Stockpiles and Testing. RAP stockpiles may be any of those listed in Article 1031.02, except “Non-Quality” and “FRAP”. The testing requirements of Article 1031.03 shall not apply. RAP used shall be according to the current Bureau of Materials and Physical

Research Policy Memorandum, “Reclaimed Asphalt Pavement (RAP) for Aggregate Applications”.

(b) Gradation. The RAP material shall meet the gradation requirements for CA 6 according to Article 1004.01(c), except the requirements for the minus No. 200 (75 µm) sieve shall not apply. The sample for the RAP material shall be air dried to constant weight prior to being tested for gradation.”

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:

LAKE COUNTY DIVISION OF TRANSPORTATION

CITY OF ZION

VILLAGE OF BEACH PARK

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

Illinois Department of Transportation

Cultural and Natural Resources Review of Borrow Areas

Borrow ☐

Topsoil ☒

A. Submittal Date: _____ Requesting Agency: ☐ DOH ☐ DOA ☐ Local ☐ Other: _____
Previous survey request(s) submitted for this ☐ Yes ☐ No Addendum # _____
Date(s) of prior submittal(s): _____

B. Route: CH 67,53, 17 Marked: _____ County(ies): Lake District: 1
Section: 15-00999-18-RS Project No.: _____
Job No.: P- _____ C- _____ Contract No.: _____

C. Borrow Location:

Legal Description – indicate section, sub-section, township, range, and street address, if available:

_____

Limits staked in field: ☐ Yes ☐ No

GPS/UTM Coordinates:
NAD Zone _____ Easting _____ Northing _____

Specify if ☐ Staked Corners ☐ Approximate Center

D. yds^3 (0.00 m^3) borrow from this area. Borrow Area Size: acres (0.00 ha)
Current Land Use (Check each which applies.): ☐ Timber ☐ Row Crops ☐ Pasture ☐ Other (Describe):

_____

E. Name of Contractor: _____
Contact Person: _____ Phone: _____
Address: _____
Name of District/Local Resident Engineer: _____ Phone: _____
E-mail: _____

F. Has the site been cleared by IDOT for cultural resources within the past 5 years?
☐ Yes ☐ No ☐ Unknown

G. This request is number _____ of _____ requests for this project.

ATTACHMENTS REQUIRED:

1. **Ground Level Color Photos**
2. **U.S.G.S. 7.5' Topo. Quad. Map**
3. **Aerial Photo**
4. **Landowner Agreement (See page 2)**
5. **Sketched Map with Landmarks**

(LEAVE THIS SPACE BLANK)

Illinois Department of Transportation

Landowner Agreement
For BDE 2289

Borrow ☐

Topsoil ☒

To whom it may concern:

I (we), said property owner(s), _____
(Name and Address of Property Owner)

_____

do hereby grant to the Illinois State Archeological Survey (ISAS), or their agents acting on behalf of Illinois Department of Transportation, permission to survey and/or test excavate said property, located:

_____
_____
_____
_____
(Indicate location of property by county, section, sub-section, township, range)

_____
(Signature of Property Owner)

_____
(Name of Property Owner)

_____
(Address of Property Owner)

_____

I (we), _____ owner(s) of said property, do hereby grant
(Name)
permission for ISAS, or their agents, acting on behalf of the Illinois Department of Transportation, to remove artifacts and scientific samples from said property and agree that all artifacts and samples shall remain in public ownership, in the custody of ISAS at the University of Illinois, Urbana-Champaign.

_____
(Signature of Property Owner)

_____
(Name of Property Owner)

_____
(Address of Property Owner)

_____

_____
(Phone number of Owner)

BORROW/WASTE/USE AREAS

Instructions

NOTE: PLEASE FILL OUT THE ENTIRE FORM. INCOMPLETE FORMS OR ATTACHMENTS WILL BE RETURNED FOR ADDITIONAL INFORMATION. If additional space is needed, incorporate necessary information in the transmittal memorandum. A TRANSMITTAL MEMORANDUM MUST BE SUBMITTED WITH EACH REQUEST FORM.

- Submit survey request at earliest possible date to ensure that construction schedules will be met.
- Complete and submit individual forms and attachments for each borrow area, haul road, plant site, staging/storage area, waste area, etc. to be surveyed.
- In order to avoid repeated trips to the same project site, indicate the number of requests being submitted for this project as the last entry on this form.

A. Requesting Agency:	DOH – Division of Highways project DOA – Division of Aeronautic project DOWR – Division of Water Resources project Local – County or Municipality project
B. Route: **Marked:**	FAP, FAI, FAU, CH, TR, etc. Illinois State route designations, U.S. route designations, etc.
C. Borrow/Use Area Location:	Describe the location of borrow area(s), haul roads, plant sites, staging/storage area, waste area, etc. Include location map* and plan sketch.

Submittals/Attachments:

- Transmittal Memorandum
- 1 original and 2 copies of this form, each with a location map*, plan sketch and signed "Landowner Release Form"
- 3 set of plan view layouts with approximate ROW/easement limits
- 1 copy of **ground level photos is required**.

* Copies from recent plat books are also very useful.

SUBMIT TO APPROPRIATE DISTRICT OFFICE FOR FORWARDING TO:

Bureau of Design & Environment
Illinois Department of Transportation
2300 South Dirksen Parkway, Room 330
Springfield, IL 62764

Attn: Peter J. Frantz

For additional information, call 217/782-4770.

Illinois Department of Transportation

Waste/Use Area Review

A. Submittal Date: _____ Requesting Agency: ☐ DOH ☐ DOA ☐ Local ☐ Other: _____
Previous survey request(s) submitted for this project? ☐ Yes ☐ No Addendum # _____
Date(s) of prior submittal(s): _____

B. Route: CH 67 & 17 Marked: _____ County(ies): Lake District: 1
Section: 15-00999-18-RS Project No.: _____
Job No.: P- _____ C- _____ Contract No.: _____

C. Will the use area require excavation greater than 6 inches in depth? ☐ Yes ☐ No ☐ N/A

If yes, a written approval from the BDE Cultural Resources Unit is required.

D. ☐ Waste/ ☐ Use Area Location (Legal Description and GPS Coordinates):

_____

GPS/UTM Coordinates:
Zone _____ Easting _____ Northing _____

E. Waste/Use Area Size: acres (0.00 ha)
Current Land Use (Check each which applies.): ☐ Timber ☐ Row Crops ☐ Pasture ☐ Other (Describe):

_____

F. Name of Contractor: _____
Contact Person: _____ Phone: _____
Address: _____
Name of District/Local Resident Engineer: Phone:

G. Has the area been cleared by IDOT within the past 5 years? ☐ Yes ☐ No ☐ Unknown

H. This request is number _____ of _____ requests for this project.

ATTACHMENTS REQUIRED:

1. **Ground Level Color Photos**
2. **U.S.G.S. 7.5" Topo. Quad. Map**
3. **Aerial Photo**
4. **Landowner Agreement (page 2)**
5. **Sketched Map with Landmarks & Dimensioning**

(LEAVE THIS SPACE BLANK)

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Illinois Department of Transportation

Agreement

Landowner

For BDE 2290

To Whom it May Concern:

I (We), said property owner(s), _____

_____

(Name and Address of Property Owner)

do hereby grant to the contractor(s) _____

_____

(Name and Address of Contractor)

Permission to deposit said materials from the construction project (Contract #) on my property as shown on the attached sketch and documentation.

_____

_____

_____

_____

(Indicate location of property by county, section, sub-section, township, range)

_____

(Signature of Property Owner)

_____

(Name of Property Owner)

_____

_____

(Address of Property Owner)

SPECIAL PROVISION
FOR
CONSTRUCTION DEBRIS

Effective October 18, 1999

Add the following to the third paragraph of Article 202.03 of the Standard Specifications:

"The Contractor shall not conduct any generation, transportation, or recycling of construction or demolition debris, clean or general or uncontaminated soil generated during construction, remodeling, repair, and demolition of utilities, structures, and roads that is not commingled with any waste, without the maintenance of documentation identifying the hauler, generator, place of origin of the debris or soil, the weight or volume of the debris or soil, and the location, owner, and operator of the facility where the debris or soil was transferred , disposed, recycled or treated. This documentation must be maintained by the Contractor for 3 years."

CONSTRUCTION DEBRIS MANIFEST

Ticket No. _____

Contract No._____

Generator _____

Hauler _____ Truck No. _____

Description of Material

_____

_____

_____

_____

_____

_____

_____

Approximate Weight of Material _____

Approximate Volume of Material _____

Disposition of Material: Location: _____

Date: _____

Time: _____

Owner: _____

Operator: _____

Illinois Department of Transportation

Storm Water Pollution Prevention Plan

Route	CH 67	Marked Rte.	21st Street
Section	15-00999-18-RS	Project No.	
County	Lake County	Contract No.	

This plan has been prepared to comply with the provisions of the National Pollutant Discharge Elimination System (NPDES) Permit No. ILR10 (Permit ILR10), issued by the Illinois Environmental Protection Agency (IEPA) for storm water discharges from construction site activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Paula J. Trigg	P. J. Trigg /AT
Print Name	Signature
County Engineer	3/16/16
Title	Date
Lake County Division of Transportation	
Agency	

I. Site Description:

A. Provide a description of the project location (include latitude and longitude):

The 21st Street Widening improvements are located between Sunnyside Drive and Kenosha Road in the City of Zion, Lake County, Illinois. Construction activities will occur on both sides of 21st Street.

Latitude:42°27'26" Longitude: 87°52'20"

B. Provide a description of the construction activity which is the subject of this plan:

The project consists of the widening and resurfacing 21st Street between Sunnyside Drive and Kenosha Road. The improvements include earth excavation, hot-mix asphalt, storm sewer, landscaping, and other items.

C. Provide the estimated duration of this project:

The project is anticipated to last 52 working days (3 to 4 months).

D. The total area of the construction site is estimated to be 2.8 acres.

The total area of the site estimated to be disturbed by excavation, grading or other activities is 2.1 acres.

E. The following is a weighted average of the runoff coefficient for this project after construction activities are completed:

0.73

F. List all soils found within project boundaries. Include map unit name, slope information, and erosivity:

232A – Ashkum silty clay loam, 0-2% slopes, low erosivity (k=0.20)
530B – Ozaukee silt loam, 2-4% slopes, high erosivity (k=0.49)
530C2 – Ozaukee silt loam, 4-6% slopes, eroded, moderate erosivity (k=0.43)
805B – Orthents, clayey, undulating, moderate erosivity (k=0.32)
979B – Grays and Markham silt loams, 2-4% slopes, moderate erosivity (k=0.37)

G. Provide an aerial extent of wetland acreage at the site:

Per the wetland delineation report, there are two wetlands within the project limits, totaling 0.015 acres. Both are on the south side of 21st Street in the vicinity of the project stations below, and will be impacted by construction of the proposed improvements.

- *Sta. 16+40 – 0.007 acres*
- *Sta. 20+85 – 0.008 acres*

H. Provide a description of potentially erosive areas associated with this project:

Exposed subgrade and trenches throughout the entire limits of the project.

I. The following is a description of soil disturbing activities by stages, their locations, and their erosive factors (e.g. steepness of slopes, length of slopes, etc):

See the erosion control plan sheet for additional details. Vegetation will be stripped, storm sewer installed (as applicable), site graded, and widening/pavement constructed. Per IDOT Standard Specifications, excavation and construction operations will be limited to one side of the road at a time. Slopes range from 4% to 2.2H:1V.

J. See the erosion control plans and/or drainage plans for this contract for information regarding drainage patterns, approximate slopes anticipated before and after major grading activities, locations where vehicles enter or exit the site and controls to prevent offsite sediment tracking (to be added after contractor identifies locations), areas of soil disturbance, the location of major structural and non-structural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands) and locations where storm water is discharged to surface water including wetlands.

K. Identify who owns the drainage system (municipality or agency) this project will drain into:

Lake County Division of Transportation will own the storm sewer to be constructed within 21st Street ROW. The existing storm sewer to which the 36" culvert will connect (Sta. 20+85) is owned by the City of Zion.

L. The following is a list of General NPDES ILR40 permittees within whose reporting jurisdiction this project is located.

Lake County Division of Transportation
City of Zion

M. The following is a list of receiving water(s) and the ultimate receiving water(s) for this site. The location of the receiving waters can be found on the erosion and sediment control plans:

Lake Michigan Watershed
Kellogg Creek Subwatershed

N. Describe areas of the site that are to be protected or remain undisturbed. These areas may include steep slopes, highly erodible soils, streams, stream buffers, specimen trees, natural vegetation, nature preserves, etc.

All areas within the project limits will be disturbed.

O. The following sensitive environmental resources are associated with this project, and may have the potential to be impacted by the proposed development:

☐ Floodplain
☒ Wetland Riparian
☐ Threatened and Endangered Species
☐ Historic Preservation
☒ 303(d) Listed receiving waters for suspended solids, turbidity, or siltation
☐ Receiving waters with Total Maximum Daily Load (TMDL) for sediment, total suspended solids, turbidity or siltation
☐ Applicable Federal, Tribal, State or Local Programs
☐ Other

1. 303(d) Listed receiving waters (fill out this section if checked above):

a. The name(s) of the listed water body, and identification of all pollutants causing impairment:

Lake Michigan – TSS, turbidity, and siltation

b. Provide a description of how erosion and sediment control practices will prevent a discharge of sediment resulting from a storm event equal to or greater than a twenty-five (25) year, twenty-four (24) hour rainfall event:

Use of BMP's (perimeter erosion barrier, ditch checks, etc.) and seeding with erosion control blanket as soon as possible.

c. Provide a description of the location(s) of direct discharge from the project site to the 303(d) water body:

None

d. Provide a description of the location(s) of any dewatering discharges to the MS4 and/or water body:

None

2. TMDL (fill out this section if checked above)

a. The name(s) of the listed water body:

b. Provide a description of the erosion and sediment control strategy that will be incorporated into the site design that is consistent with the assumptions and requirements of the TMDL:

c. If a specific numeric waste load allocation has been established that would apply to the project's discharges, provide a description of the necessary steps to meet that allocation:

P. The following pollutants of concern will be associated with this construction project:

☒	Soil Sediment	☒	Petroleum (gas, diesel, oil, kerosene, hydraulic oil / fluids)
☒	Concrete	☒	Antifreeze / Coolants
☒	Concrete Truck Waste	☒	Waste water from cleaning construction equipment
☒	Concrete Curing Compounds	☐	Other (specify)
☒	Solid Waste Debris	☐	Other (specify)
☒	Paints	☐	Other (specify)
☐	Solvents	☐	Other (specify)
☒	Fertilizers / Pesticides	☐	Other (specify)

II. Controls:

This section of the plan addresses the controls that will be implemented for each of the major construction activities described in I.C. above and for all use areas, borrow sites, and waste sites. For each measure discussed, the Contractor will be responsible for its implementation as indicated. The Contractor shall provide to the Resident Engineer a plan for the implementation of the measures indicated. The Contractor, and subcontractors, will notify the Resident Engineer of any proposed changes, maintenance, or modifications to keep construction activities compliant with the Permit ILR10. Each such Contractor has signed the required certification on forms which are attached to, and are a part of, this plan:

A. **Erosion and Sediment Controls:** At a minimum, controls must be coordinated, installed and maintained to:

1. Minimize the amount of soil exposed during construction activity;
2. Minimize the disturbance of steep slopes;
3. Maintain natural buffers around surface waters, direct storm water to vegetated areas to increase sediment removal and maximize storm water infiltration, unless infeasible;
4. Minimize soil compaction and, unless infeasible, preserve topsoil.

B. **Stabilization Practices:** Provided below is a description of interim and permanent stabilization practices, including site- specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices may include but are not limited to: temporary seeding, permanent seeding, mulching, geotextiles, sodding, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Except as provided below in II(B)(1) and II(B)(2), stabilization measures shall be initiated **immediately** where construction activities have temporarily or permanently ceased, but in no case more than **one (1) day** after the construction activity in that portion of the site has temporarily or permanently ceases on all disturbed portions of the site where construction will not occur for a period of fourteen (14) or more calendar days.

1. Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.

2. On areas where construction activity has temporarily ceased and will resume after fourteen (14) days, a temporary stabilization method can be used.

The following stabilization practices will be used for this project:

- ☒ Preservation of Mature Vegetation
- ☐ Vegetated Buffer Strips
- ☐ Protection of Trees
- ☐ Temporary Erosion Control Seeding
- ☐ Temporary Turf (Seeding, Class 7)
- ☐ Temporary Mulching
- ☒ Permanent Seeding
- ☒ Erosion Control Blanket / Mulching
- ☐ Sodding
- ☒ Geotextiles
- ☐ Other (specify)
- ☐ Other (specify)
- ☐ Other (specify)
- ☐ Other (specify)

Describe how the stabilization practices listed above will be utilized during construction:

Vegetation disturbance will be limited to the area necessary to complete the proposed work. Temporary and permanent BMP's will be installed at the frequency described above. The site will be inspected on a regular basis and the BMP's will be maintained as necessary.

Describe how the stabilization practices listed above will be utilized after construction activities have been completed:

Once construction activity in an area has permanently ceased, that area should be permanently stabilized.

C. **Structural Practices:** Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include but are not limited to: perimeter erosion barrier, earth dikes, drainage swales, sediment traps, ditch checks, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. The installation of these devices may be subject to Section 404 of the Clean Water Act.

The following structural practices will be used for this project:

- ☒ Perimeter Erosion Barrier
- ☒ Temporary Ditch Check
- ☒ Storm Drain Inlet Protection
- ☐ Sediment Trap
- ☐ Temporary Pipe Slope Drain
- ☐ Temporary Sediment Basin
- ☐ Temporary Stream Crossing
- ☐ Stabilized Construction Exits
- ☐ Turf Reinforcement Mats
- ☐ Permanent Check Dams
- ☐ Permanent Sediment Basin
- ☐ Aggregate Ditch
- ☐ Paved Ditch
- ☐ Rock Outlet Protection
- ☒ Riprap
- ☐ Gabions
- ☐ Slope Mattress
- ☐ Retaining Walls
- ☐ Slope Walls
- ☐ Concrete Revetment Mats
- ☐ Level Spreaders
- ☐ Other (specify)
- ☐ Other (specify)
- ☐ Other (specify)
- ☐ Other (specify)
- ☐ Other (specify)

Describe how the structural practices listed above will be utilized during construction:

Perimeter erosion barrier, temporary ditch checks, and inlet filters will be installed as soon as practicable as a sediment control during construction. They will be inspected regularly and maintained as necessary during construction.

Describe how the structural practices listed above will be utilized after construction activities have been completed:

Riprap will be installed as shown in the plans as a permanent erosion control measure. Once construction activity in an area has permanently ceased, that area should be final stabilized and the temporary measures removed.

D. **Treatment Chemicals**

Will polymer flocculants or treatment chemicals be utilized on this project: ☐ Yes ☒ No

If yes above, identify where and how polymer flocculants or treatment chemicals will be utilized on this project.

E. **Permanent Storm Water Management Controls:** Provided below is a description of measures that will be installed during the construction process to control volume and pollutants in storm water discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

1. Such practices may include but are not limited to: storm water detention structures (including wet ponds), storm water retention structures, flow attenuation by use of open vegetated swales and natural depressions, infiltration of runoff on site, and sequential systems (which combine several practices).

   The practices selected for implementation were determined on the basis of the technical guidance in Chapter 41 (Construction Site Storm Water Pollution Control) of the IDOT Bureau of Design and Environment Manual. If practices other than those discussed in Chapter 41 are selected for implementation or if practices are applied to situations different from those covered in Chapter 41, the technical basis for such decisions will be explained below.

2. Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g. maintenance of hydrologic conditions such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

   Description of permanent storm water management controls:

   A portion of this project is tributary to a detention facility within the Shepherds Point subdivision. Runoff from the western portion of this project (see plans) will be directed through this facility.

F. **Approved State or Local Laws:** The management practices, controls and provisions contained in this plan will be in accordance with IDOT specifications, which are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Illinois Urban Manual. Procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials shall be described or incorporated by reference in the space provided below. Requirements specified in sediment and erosion site plans, site permits, storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI, to be authorized to discharge under the Permit ILR10 incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

Description of procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials:

See erosion control plan.

G. **Contractor Required Submittals:** Prior to conducting any professional services at the site covered by this plan, the Contractor and each subcontractor responsible for compliance with the permit shall submit to the Resident Engineer a Contractor Certification Statement, BDE 2342a.

1. The Contractor shall provide a construction schedule containing an adequate level of detail to show major activities with implementation of pollution prevention BMPs, including the following items:

   - Approximate duration of the project, including each stage of the project
   - Rainy season, dry season, and winter shutdown dates
   - Temporary stabilization measures to be employed by contract phases
   - Mobilization timeframe
   - Mass clearing and grubbing/roadside clearing dates
   - Deployment of Erosion Control Practices
   - Deployment of Sediment Control Practices (including stabilized construction entrances/exits)
   - Deployment of Construction Site Management Practices (including concrete washout facilities, chemical storage, refueling locations, etc.)
   - Paving, saw-cutting, and any other pavement related operations
   - Major planned stockpiling operations
   - Timeframe for other significant long-term operations or activities that may plan non-storm water discharges such as dewatering, grinding, etc.
   - Permanent stabilization activities for each area of the project

2. The Contractor and each subcontractor shall provide, as an attachment to their signed Contractor Certification Statement, a discussion of how they will comply with the requirements of the permit in regard to the following items and provide a graphical representation showing location and type of BMPs to be used when applicable:

   - Vehicle Entrances and Exits – Identify type and location of stabilized construction entrances and exits to be used and how they will be maintained.
   - Material Delivery, Storage and Use – Discuss where and how materials including chemicals, concrete curing compounds, petroleum products, etc. will be stored for this project.
   - Stockpile Management – Identify the location of both on-site and off-site stockpiles. Discuss what BMPs will be used to prevent pollution of storm water from stockpiles.
   - Waste Disposal – Discuss methods of waste disposal that will be used for this project.
   - Spill Prevention and Control – Discuss steps that will be taken in the event of a material spill (chemicals, concrete curing compounds, petroleum, etc.)
   - Concrete Residuals and Washout Wastes – Discuss the location and type of concrete washout facilities to be used on this project and how they will be signed and maintained.
   - Litter Management – Discuss how litter will be maintained for this project (education of employees, number of dumpsters, frequency of dumpster pick-up, etc.).
   - Vehicle and Equipment Fueling – Identify equipment fueling locations for this project and what BMPs will be used to ensure containment and spill prevention.
   - Vehicle and Equipment Cleaning and Maintenance – Identify where equipment cleaning and maintenance locations for this project and what BMPs will be used to ensure containment and spill prevention.
   - Dewatering Activities – Identify the controls which will be used during dewatering operations to ensure sediments will not leave the construction site.
   - Polymer Flocculants and Treatment Chemicals – Identify the use and dosage of treatment chemicals and provide the Resident Engineer with Material Safety Data Sheets. Describe procedures on how the chemicals will be used and identify who will be responsible for the use and application of these chemicals. The selected individual must be trained on the established procedures.
   - Additional measures indicated in the plan.

III. Maintenance:

When requested by the Contractor, the Resident Engineer will provide general maintenance guides to the Contractor for the practices associated with this project. The following additional procedures will be used to maintain, in good and effective operating conditions, the vegetation, erosion and sediment control measures and other protective measures identified in this plan. It will be the Contractor's responsibility to attain maintenance guidelines for any manufactured BMPs which are to be installed and maintained per manufacture's specifications.

IV. Inspections:

Qualified personnel shall inspect disturbed areas of the construction site which have not yet been finally stabilized, structural control measures, and locations where vehicles and equipment enter and exit the site using IDOT Storm Water Pollution Prevention Plan Erosion Control Inspection Report (BC 2259). Such inspections shall be conducted at least once every seven (7) calendar days and within twenty-four (24) hours of the end of a storm or by the end of the following business or work day that is 0.5 inch or greater or equivalent snowfall.

Inspections may be reduced to once per month when construction activities have ceased due to frozen conditions. Weekly inspections will recommence when construction activities are conducted, or if there is 0.5" or greater rain event, or a discharge due to snowmelt occurs.

If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer shall notify the appropriate IEPA Field Operations Section office by email at: epa.swnoncomp@illinois.gov, telephone or fax within twenty-four (24) hours of the incident. The Resident Engineer shall then complete and submit an "Incidence of Non-Compliance" (ION) report for the identified violation within five (5) days of the incident. The Resident Engineer shall use forms provided by IEPA and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of non-compliance shall be signed by a responsible authority in accordance with Part VI. G of the Permit ILR10.

The Incidence of Non-Compliance shall be mailed to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Compliance Assurance Section
1021 North Grand East
Post Office Box 19276
Springfield, Illinois 62794-9276

V. Failure to Comply:

Failure to comply with any provisions of this Storm Water Pollution Prevention Plan will result in the implementation of a National Pollutant Discharge Elimination System/Erosion and Sediment Control Deficiency Deduction against the Contractor and/or penalties under the Permit ILR10 which could be passed on to the Contractor.

Illinois Department of Transportation

Contractor Certification Statement

Prior to conducting any professional services at the site covered by this contract, the Contractor and every subcontractor must complete and return to the Resident Engineer the following certification. A separate certification must be submitted by each firm. Attach to this certification all items required by Section II.G of the Storm Water Pollution Prevention Plan (SWPPP) which will be handled by the Contractor/subcontractor completing this form.

Route	CH 67	Marked Rte.	21st Street
Section	15-00999-18-RS	Project No.	
County	Lake County	Contract No.	

This certification statement is a part of SWPPP for the project described above, in accordance with the General NPDES Permit No. ILR10 issued by the Illinois Environmental Protection Agency.

I certify under penalty of law that I understand the terms of the Permit No. ILR 10 that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

In addition, I have read and understand all of the information and requirements stated in SWPPP for the above mentioned project; I have received copies of all appropriate maintenance procedures; and, I have provided all documentation required to be in compliance with the Permit ILR10 and SWPPP and will provide timely updates to these documents as necessary.

☐ Contractor

☐ Sub-Contractor

Print Name	Signature
Title	Date
Name of Firm	Telephone
Street Address	City/State/ZIP

Items which this Contractor/subcontractor will be responsible for as required in Section II.G. of SWPPP:

INTENTIONALLY

BLANK

Illinois Department of Transportation

Storm Water Pollution Prevention Plan
Erosion Control Inspection Report

Date of Inspection: _____ County: Lake

Name of Inspector: _____ Section: 15-00999-18-RS

Type of Inspection: Weekly ☐ Route: 67 & 53

>0.5" Precip. ☐ Precip. Amt: _____ " District: District 1

Contractor: _____ Contract No: _____

Subs: _____ Job No. _____

_____ Project: _____

NPDES/ESC Deficiency Deduction: $ _____ NPDES Permit No: ILR40 (0517)

Total Disturbed Area: _____ acre Ready for Final Cover: _____ acre

Final Cover Established: _____ acre

Erosion and Sediment Control Practices

Item # / BMP		YES	NO	N/A
1. Slopes:	Do all slopes and exposed areas where soil disturbing activities have temporarily or permanently ceased, and not permanently stabilized, have adequate temporary seed or other stabilization in accordance with the NPDES permitted 7 and 14 day rule?	☐	☐	☐
2. Ditches	Are all ditches (existing and temporary) clear of sediment and/or debris?	☐	☐	☐
	Do all ditches have adequate stabilization and structural practices in place?	☐	☐	☐
3. Perimeter Erosion Barrier:	Are all perimeter erosion barriers in good working order?	☐	☐	☐
	Has perimeter barrier no longer needed been removed and the area stabilized?	☐	☐	☐
4. Temporary Ditch Checks:	Are all temporary ditch checks in good working order?	☐	☐	☐
	Are the current ditch checks adequate to control erosion?	☐	☐	☐
5. Temp Diversions/ Slope Drains:	Are all Temporary Diversions and Slope Drains functioning properly?	☐	☐	☐
6. Inlet Protection:	Are ALL inlet protection devices in good working order?	☐	☐	☐
	Are ALL inlet filters less than 25% full and fabric unobstructed?	☐	☐	☐
7. Sediment Basins/Traps:	Are ALL sediment basins/traps in good working order?	☐	☐	☐
	Does sufficient capacity exist for the design stormwater event?	☐	☐	☐
8. Areas of Interest – Wetland/Prairie/Tree Preservation:				
	Has the contractor remained clear of all designated "no entry" areas?	☐	☐	☐
	Are all "no intrusion" areas adequately marked to prevent accidental entry?	☐	☐	☐
9. Stock Piles:	Are all stockpiles properly situated and maintained to prevent runoff and protected to minimize discharge of materials or residue in case of erosion?	☐	☐	☐
10. Borrow/Waste Sites:	Are all borrow and waste locations, including those located offsite, in compliance with NPDES requirements?	☐	☐	☐
11. Other Installations:	Are all other BMP installations shown in the plans properly functioning? (note in comments)	☐	☐	☐

General Site Maintenance Required of the Permit

12. Vehicle Tracking:	Is the site free from mud, sediment and debris from the vehicles entering/leaving off road areas throughout the site?	☐	☐	☐
	Are Stabilized Construction field entrances properly located?	☐	☐	☐
	Are Stabilized Construction field entrances in good working condition?	☐	☐	☐

Item # / BMP			YES	NO	N/A
13.	**Concrete Washout Areas:**	Are concrete washout areas adequately signed and maintained?	☐	☐	☐
		Has all washout occurred only at designated washout locations?	☐	☐	☐
14.	**Staging/Storage Areas:**	Are all staging/storage facilities free of litter, leaking containers, leaking equipment, spills, etc?	☐	☐	☐
15.	**Fuel/Chemical Storage:**	Are all fuels and chemicals stored only in designated locations?	☐	☐	☐
		Are all designated locations free of evidence of leaks and or spills?	☐	☐	☐
16.	**Previous Inspection Follow Up:**	Have all corrections from the last report been properly completed?	☐	☐	☐
		If not, has a NPDES/ESC Deficiency Deduction been assessed?	☐	☐	☐
17.	**Update SWPPP:**	Have all changes to the projects SWPPP been noted on the graphic site plan, signed and dated?	☐	☐	☐
18.	**Off-site Dischare of Sediment:**	Has sediment or other pollutants of concern been released from the project site?	☐	☐	☐
		If Yes, has the Illinois Environmental Protection Agency been notified within 24 hours of your observation of the discharge and an Incidence of Non-Compliance (ION) mailed within 5 days?	☐	☐	☐

Specific Instructions Related to "No" Answers From Above:

Item #	Station or Station to Station	Practice	Comments/Actions Required	Time for Repair

Other Comments:

_____

_____

_____

_____

_____

_____

_____

Additional Pages (Attached As Needed)

☐ Outfalls / Receiving Waters
☐ Drainage Structure/Ditch Check Locations
☐ Additional Instructions to Contractor

Other: _____

If the answer to any of Items 1-16 above is "No", the contractor is hereby ordered to correct the deficiency. Repairs and stabilization are to be completed within 24 hours of this report (or as indicated above) or the DAILY NPDES/ESC Deficiency Deduction will be assessed for each noted deficiency until the required action is completed.

Inspector's Signature _____ Date/Time: _____

Contractor's Signature _____ Date/Time: _____

Original: Project File
cc: Contractor

Illinois Environmental Protection Agency

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

Division of Water Pollution Control
Notice of Intent (NOI) for General Permit
to Discharge Storm Water Associated with Construction Site Activities

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at the above address.

For Office Use Only

Permit No. ILR10 _____

OWNER INFORMATION

Company/Owner Name: _____

Mailing Address: _____ Phone: _____

City: _____ State: ____ Zip: _____ Fax: _____

Contact Person: _____ E-mail: _____

Owner Type (select one) _____

CONTRACTOR INFORMATION

MS4 Community: ☐ Yes ☐ No

Contractor Name: _____

Mailing Address: _____ Phone: _____

City: _____ State: ____ Zip: _____ Fax: _____

CONSTRUCTION SITE INFORMATION

Select One: ☐ New ☐ Change of information for: ILR10 _____

Project Name: _____ County: _____

Street Address: _____ City: _____ IL Zip: _____

Latitude: _____ _____ _____ Longitude: _____ _____ _____ _____ _____ _____

(Deg) (Min) (Sec) (Deg) (Min) (Sec) Section Township Range

Approximate Construction Start Date _____ Approximate Construction End Date _____

Total size of construction site in acres: _____

If less than 1 acre, is the site part of a larger common plan of development?

☐ Yes ☐ No

Fee Schedule for Construction Sites:
Less than 5 acres - $250
5 or more acres - $750

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Has the SWPPP been submitted to the Agency? ☐ Yes ☐ No

(Submit SWPPP electronically to: epa.constilr10swppp@illinois.gov)

Location of SWPPP for viewing: Address: _____ City: _____

SWPPP contact information: Inspector qualifications:

Contact Name: _____ _____

Phone: _____ Fax: _____ E-mail: _____

Project inspector, if different from above Inspector qualifications:

Inspector's Name: _____ _____

Phone: _____ Fax: _____ E-mail: _____

IL 532 2104 WPC 623
Rev 5/10

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

TYPE OF CONSTRUCTION (select one)

Construction Type _____

SIC Code: _____

Type a detailed description of the project:

_____

_____

_____

_____

_____

_____

HISTORIC PRESERVATION AND ENDANGERED SPECIES COMPLIANCE

Has the project been submitted to the following state agencies to satisfy applicable requirements for compliance with Illinois law on:

Historic Preservation Agency ☐ Yes ☐ No

Endangered Species ☐ Yes ☐ No

RECEIVING WATER INFORMATION

Does your storm water discharge directly to: ☐ Waters of the State or ☐ Storm Sewer

Owner of storm sewer system: _____

Name of closest receiving water body to which you discharge: _____

Mail completed form to: Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Permit Section
Post Office Box 19276
Springfield, Illinois 62794-9276
or call (217) 782-0610
FAX: (217) 782-9891

Or submit electronically to: epa.constilr10swppp@illinois.gov

I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. In addition, I certify that the provisions of the permit, including the development and implementation of a storm water pollution prevention plan and a monitoring program plan, will be complied with.

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))

_____ _____
Owner Signature: Date:

_____ _____
Printed Name: Title:

INSTRUCTIONS FOR COMPLETION OF CONSTRUCTION ACTIVITY NOTICE OF INTENT (NOI) FORM

Submit original, electronic or facsimile copies. Facsimile and/or electronic copies should be followed-up with submission of an original signature copy as soon as possible. Please write "copy" under the "For Office Use Only" box in the upper right hand corner of the first page.

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Permit Section
Post Office Box 19276
Springfield, Illinois 62794-9276
or call (217) 782-0610
FAX: (217) 782-9891

Or submit electronically to: epa.constilr10swppp@illinois.gov

Reports must be typed or printed legibly and signed.

Any facility that is not presently covered by the General NPDES Permit for Storm Water Discharges From Construction Site Activities is considered a new facility.

If this is a change in your facility information, renewal, etc., please fill in your permit number on the appropriate line, changes of information or permit renewal notifications do not require a fee.

NOTE: FACILITY LOCATION IS NOT NECESSARILY THE FACILITY MAILING ADDRESS, BUT SHOULD DESCRIBE WHERE THE FACILITY IS LOCATED.

Use the formats given in the following examples for correct form completion.

	Example	Format
Section	12	1 or 2 numerical digits
Township	12N	1 or 2 numerical digits followed by "N" or "S"
Range	12W	1 or 2 numerical digits followed by "E" or "W"

For the Name of Closest Receiving Waters, do not use terms such as ditch or channel. For unnamed tributaries, use terms which include at least a named main tributary such as "Unnamed Tributary to Sugar Creek to Sangamon River."

Submission of initial fee and an electronic submission of Storm Water Pollution Prevention Plan (SWPPP) for Initial Permit prior to the Notice of Intent being considered complete for coverage by the ILR10 General Permits. Please make checks payable to: Illinois EPA at the above address.

Construction sites with less than 5 acres of land disturbance - fee is $250.

Construction sites with 5 or more acres of land disturbance - fee is $750.

SWPPP should be submitted electronically to: epa.constilr10swppp@illinois.gov When submitting electronically, use Project Name and City as indicated on NOI form.

Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control
Construction Site Storm Water Discharge Incidence of Non-Compliance (ION)

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. You may email this completed form to: *epa.swnoncomp@illinois.gov*

For Office Use Only

Permit No. ILR10_____

Permittee Information:

Name: _____

Street Address: _____ P.O. Box: _____

City: _____ State: IL Zip Code: _____ County: _____

Phone: _____ Email: _____

Construction Site Information:

Site Name: _____

Street Address: _____

City: _____ State: IL Zip Code: _____

Latitude: _____ _____ _____ Longitude: _____ _____ _____ _____ _____ _____

(Deg) (Min) (Sec) (Deg) (Min) (Sec) Section Township Range

Cause of Non-Compliance

_____

_____

_____

_____

Actions Taken to Prevent Any Further Non-Compliance

_____

_____

_____

_____

Environmental Impact Resulting From the Non-Compliance

_____

_____

_____

_____

Actions Taken to Reduce the Environmental Impact Resulting From the Non-Compliance

_____

_____

_____

_____

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))

_____ _____

Owner Signature: Date:

_____ _____

Printed Name: Title:

IL 532 2105 WPC
624 Rev. 10/2011

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

DIVISION OF WATER POLLUTION CONTROL
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
FIELD OPERATIONS SECTION

GUIDELINES FOR COMPLETION OF INCIDENCE OF NON-COMPLIANCE (ION) FORM

Complete and submit this form for any violation of the Storm Water Pollution Prevention Plan observed during any inspection conducted, including those not required by the SWPPP. Please adhere to the following guidelines:

Initial submission within 24 hours by email, telephone or fax (see region fax numbers) of any incidence of non-compliance for any violation. Submit email copy to: epa.swnoncomp@illinois.gov. After 24 hours notification, submit signed original ION within 5 days to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance #19
Post Office Box 19276
Springfield, Illinois 62794-9276

FIELD OPERATIONS HEADQUARTERS
Bruce Yurdin, Manager
Phone: 217/782-3362 Fax: 217/785-1225
EMAIL: epa.swnoncomp@illinois.gov

Region 1 - ROCKFORD
Chuck Corley, Manager
Phone: 815/987-7760 Fax: 815/987-7005

Region 2 - DESPLAINES
Jay Patel, Manager
Phone: 847/294-4000 Fax: 847/294-4058

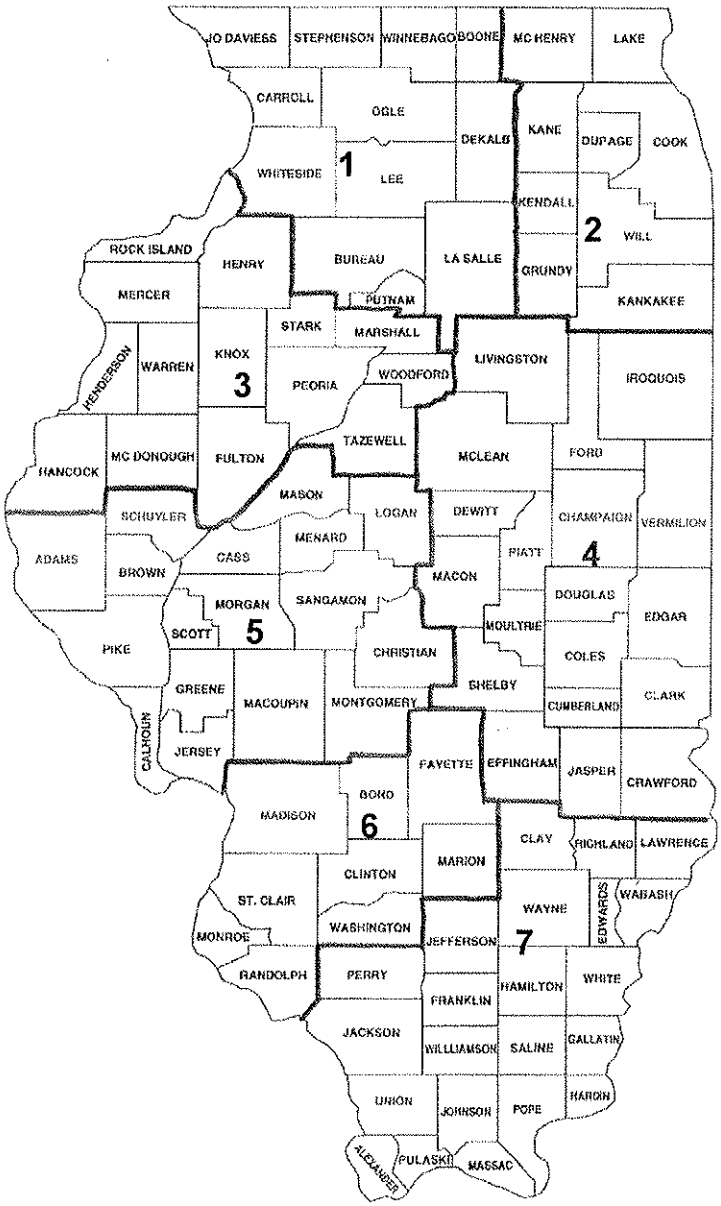
Region 3 - PEORIA
Jim Kammueller, Manager
Phone: 309/693-5463 Fax: 309/693-5467

Region 4 - CHAMPAIGN
Joe Koronkowski, Manager
Phone: 217/278-5800 Fax: 217/278-5808

Region 5 - SPRINGFIELD
Bruce Yurdin, FOS Manager
Phone: 217/782-3362 Fax: 217/785-1225

Region 6 - COLLINSVILLE
Bruce Yurdin, FOS Manager
Phone: 217/782-3362 Fax: 217/785-1225

Region 7- MARION
Byron Marks, Manager
Phone: 618/993-7200 Fax: 618/997-5467



Illinois Environmental Protection Agency

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

Division of Water Pollution Control
NOTICE OF TERMINATION (NOT)
of Coverage under the General Permit for Storm Water Discharges Associated with Construction Site Activities

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at the above address.

Permit No. ILR10 _____

OWNER INFORMATION

Owner Name: _____

Owner Type (select one) _____

Mailing Address: _____ Phone: _____

City: _____ State: ____ Zip: _____ Fax: _____

Contact Person: _____ E-mail: _____

CONTRACTOR INFORMATION

Contractor Name: _____

Mailing Address: _____ Phone: _____

City: _____ State: ____ Zip: _____ Fax: _____

CONSTRUCTION SITE INFORMATION

Facility Name: _____

Street Address: _____

City: _____ IL Zip: _____ County: _____

NPDES Storm Water General Permit Number: ILR10 _____

Latitude: _____ _____ _____ Longitude: _____ _____ _____ _____ _____ _____

(Deg) (Min) (Sec) (Deg) (Min) (Sec) Section Township Range

DATE PROJECT HAS BEEN COMPLETED AND STABILIZED: _____

NOTE: Coverage under this permit cannot be terminated without the completion date.

I certify under penalty of law that disturbed soils at the identified facility have been finally stabilized or that all storm water discharges associated with industrial activity from the identified facility that are authorized by an NPDES general permit have otherwise been eliminated. I understand that by submitting this notice of termination, that I am no longer authorized to discharge storm water associated with industrial activity by the general permit, and that discharging pollutants in storm water associated with industrial activity to Waters of the State is unlawful under the Environmental Protection Act and the Clean Water Act where the discharge is not authorized by an NPDES Permit.

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))

_____ _____

Owner Signature: Date:

Mail completed form to: Illinois Environmental Protection Agency
Division of Water Pollution Control, Attn: Permit Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

(Do not submit additional documentation unless requested)

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

IL 532 2102
WPC 621 Rev 12/11

GUIDELINES FOR COMPLETION OF NOTICE OF TERMINATION (NOT) FORM

Please adhere to the following guidelines:

Submit original, electronic or facsimile copies. Facsimile and/or electronic copies should be followed-up with submission of an original signature copy as soon as possible.

Submit completed forms to:

Illinois Environmental Protection Agency
Division of Water Pollution Control, Attn: Permit Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276
or call (217) 782-0610
FAX: (217) 782-9891

Or submit electronically to: epa.constilr10swppp@illinois.gov

Reports must be typed or printed legibly and signed.

NOTE: FACILITY LOCATION IS NOT NECESSARILY THE FACILITY MAILING ADDRESS, BUT SHOULD DESCRIBE WHERE THE FACILITY IS LOCATED.

Use the formats given in the following examples for correct form completion.

	Example	Format
Section	12	1 or 2 numerical digits
Township	12N	1 or 2 numerical digits followed by "N" or "S"
Range	12W	1 or 2 numerical digits followed by "E" or "W"

Final stabilization has occurred when:

(a) all soil disturbing activities at the site have been completed;

(b) a uniform perennial vegetative cover with a density of 70% of the native background vegetative cover for the area has been established on all unpaved areas not covered by permanent structures; or

(c) equivalent permanent stabilization measures have been employed.

DEPARTMENT OF THE ARMY
CHICAGO DISTRICT, CORPS OF ENGINEERS
231 SOUTH LA SALLE STREET
CHICAGO, ILLINOIS 60604-1437

REPLY TO
ATTENTION OF:

February 5, 2016

Technical Services Division
Regulatory Branch
LRC-2015-00140

SUBJECT: Request Authorization to Impact 0.008 acres of Wetland for Grading Within ROW and Replacement of One Culvert on 21st Street Improvements Green Bay Road to Kenosha Road in Zion, Lake County, Illinois

Satrughan Shrestha
Lake County Division of Transportation
600 W. Winchester Road
Libertyville, IL 60048

Dear Mr. Shrestha:

This office has verified that your proposed activity complies with the terms and conditions of Regional Permit 3 and Category I of the Regional Permit Program (RPP).

This verification expires three (3) years from the date of this letter and covers only your activity as described in your notification and as shown on the plans entitled "Shepherds Point Access, 21st Street, Plan & Profile STA. 18+50 to STA. 24+00, Route CH 53, CH 67 Section 999, Section Number 15-00999-18-RS, Sheets 5 & 6" dated June 24, 2015, prepared by Lake County Department of Transportation. Caution must be taken to prevent construction materials and activities from impacting waters of the United States beyond the scope of this authorization. If you anticipate changing the design or location of the activity, you should contact this office to determine the need for further authorization.

The activity may be completed without further authorization from this office provided the activity is conducted in compliance with the terms and conditions of the RPP, including conditions of water quality certification issued under Section 401 of the Clean Water Act by the Illinois Environmental Protection Agency (IEPA). If the design, location, or purpose of the project is changed, you should contact this office to determine the need for further authorization.

1. This authorization is contingent upon implementing and maintaining soil erosion and sediment controls in a serviceable condition throughout the duration of the project. You shall comply with the Lake County Stormwater Management Commission (LCSMC)'s written and verbal recommendations regarding the soil erosion and sediment control (SESC) plan and the installation and maintenance requirements of the SESC practices on-site.

a. You shall schedule a preconstruction meeting with LCSMC to discuss the SESC plan and the installation and maintenance requirements of the SESC practices on the site. You shall contact the LCSMC at least 10 calendar days prior to the preconstruction meeting so that a representative may attend.
b. You shall notify the LCSMC or the LCSMC's designated agent of any changes or modifications to the approved plan set. Field conditions during project construction may require the implementation of additional SESC measures. If you fail to implement corrective measures, this office may require more frequent site inspections to ensure the installed SESC measures are acceptable.
c. Prior to commencement of any in-stream work, you shall submit constructions plans and a detailed narrative disclosing the contractor's preferred method of cofferdam and dewatering method to the LCSMC or the LCSMC's designated agent. Work in the waterway shall NOT commence until the LCSMC notifies you, in writing, that the plans have been approved.

2. Under no circumstances shall the Contractor prolong final grading and shaping so that the entire project can be permanently seeded at one time. Permanent stabilization within the wetland and stream buffers identified in the plans shall be initiated immediately following the completion of work. Final stabilization of these areas should not be delayed due to utility work to be performed by others.

3. Work in the waterway should be timed to take place during low or no-flow conditions. Low flow conditions are flow at or below the normal water elevation.

4. The plan will be designed to allow for the conveyance of the 2-year peak flow past the work area without overtopping the cofferdam. The Corps has the discretion to reduce this requirement if documented by the applicant to be infeasible or unnecessary.

5. Water shall be isolated from the in-stream work area using a cofferdam constructed of non-erodible materials (steel sheets, aqua barriers, rip rap and geotextile liner, etc.). Earthen cofferdams are not permissible.

6. The cofferdam must be constructed from the upland area and no equipment may enter flowing water at any time. If the installation of the cofferdam cannot be completed from shore and access is needed to reach the area to be coffered, other measures, such as the construction of a causeway, will be necessary to ensure that equipment does not enter the water. Once the cofferdam is in place and the isolated area is dewatered, equipment may enter the coffered area to perform the required work.

7. If bypass pumping is necessary, the intake hose shall be placed on a stable surface or floated to prevent sediment from entering the hose. The bypass discharge shall be placed on a non-erodible, energy dissipating surface prior to rejoining the stream flow and shall not cause erosion. Filtering of bypass water is not necessary unless the bypass water has become sediment-laden as a result of the current construction activities.

8. During dewatering of the coffered work area, all sediment-laden water must be filtered to remove sediment. Possible options for sediment removal include baffle systems, anionic polymers systems, dewatering bags, or other appropriate methods. Water shall have sediment removed prior to being re-introduced to the downstream waterway. A stabilized conveyance from the dewatering device to the waterway must be identified in the plan. Discharge water is considered clean if it does not result in a visually identifiable degradation of water clarity.

9. The portion of the side slope that is above the observed water elevation shall be stabilized as specified in the plans prior to accepting flows. The substrate and toe of slope that has been disturbed due to construction activities shall be restored to proposed or pre-construction conditions and fully stabilized prior to accepting flows.

The authorization is without force and effect until all other permits or authorizations from local, state, or other Federal agencies are secured. Please note that IEPA has issued Section 401 Water Quality Certification for this RP. These conditions are included in the enclosed fact sheet. If you have any questions regarding Section 401 certification, please contact Mr. Dan Heacock at IEPA's Division of Water Pollution Control, Permit Section #15, by telephone at (217) 782-3362.

Once you have completed the authorized activity, please sign and return the enclosed compliance certification. If you have any questions, please contact Melyssa R. Navis of my staff by telephone at 312-846-5533, or email at melyssa.r.navis@usace.army.mil.

Sincerely,

Kathleen G. Chernich
Chief, East Section
Regulatory Branch

Enclosures

Copy Furnished:

Lake County Stormwater Management Commission (Kurt Woolford)
Lake County Stormwater Management Commission (Glenn Westman)
Lake County Planning, Building and Development Department (Steve Crivello)

PERMIT COMPLIANCE

CERTIFICATION

Permit Number: LRC-2015-00140

Permittee: Lake County Department of Transportation

Date: February 5, 2016

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

_____ _____

PERMITTEE DATE

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

U.S. Army Corps of Engineers
Chicago District, Regulatory Branch
231 South LaSalle Street, Suite 1500
Chicago, Illinois 60604-1437

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

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

STORMWATER MANAGEMENT COMMISSION

September 23, 2015

Satrughan Shrestha
LCDOT
SShrestha@lakecountyil.gov

Subject: SMC Watershed Development Permit Application #C96-83-206A
21st Street Improvements between Green Bay and Kenosha Roads
City of Zion (42.45735, -87.87216)
USACOE Reference #LRC-2015-140

Dear Mr. Shrestha:

The Lake County Stormwater Management Commission approves the proposed soil erosion and sediment control (SE/SC) measures for the subject project. This approval is conditional upon the following:

- Prior notification of the pre-construction meeting to Tim Cook of the SMC, to enable SMC attendance,
- Obtaining the USACE permit prior to work in Corps jurisdictional areas
- The review fee due to the SMC for the proposed activity is $1040 (12/1/11 fee schedule #11012, SE/SC review only with floodplain and/or wetlands).

This approval is based on the plans entitled:

Sheperds Point Access, 21st Street, prepared by the Lake County Division of Transportation, received by the SMC 9/3/15

This project is being conducted under Lake County Countywide Permit #1.

We would like to be of assistance. If you have any questions, or would like to set up a meeting, please call our office at (847) 377-7705 or e-mail me at rgardiner@lakecountyil.gov . If you have any additional concerns that have not been addressed by the regulatory, you may contact Chief Engineer Kurt Woolford kwoolford@lakecountyil.gov or Executive Director Michael Warner mwarner@lakecountyil.gov at (847) 377-7700.

If you would like to provide feedback regarding the SMC permit/inspection process please go to: (password – *survey*)

http://www.lakecountyil.gov/Stormwater/Pages/PermitProcessSurvey.aspx

http://www.lakecountyil.gov/Stormwater/Pages/InspectionProcessSurvey-.aspx

Sincerely,

LAKE COUNTY STORMWATER MANAGEMENT COMMISSION

Robert D. Gardiner, P.E., CFM
Permit Engineer

Kurt Woolford, P.E., CFM
Chief Engineer

C: Melyssa Navis – USACE
Tim Cook -- SMC

Illinois Environmental Protection Agency

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

Source Site Certification by Owner or Operator for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-662 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 source site owners and operators to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(A), that soil (i) was removed from a site that is not potentially impacted property and is presumed to be uncontaminated soil and (ii) is within a pH range of 6.25 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 fill operations or uncontaminated soil fill operations.

I. Source Location Information

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

Project Name: 21st Street Access Improvements Office Phone Number, if available: _____

Physical Site Location (Street, Road): 700 feet west of Kenosha Road and 21st Street

City: Zion State: IL Zip Code: 60099

County: Lake Township: Zion

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

Latitude: 42.457538 (Decimal Degrees) Longitude: -87.872490 (-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:	Lake County Division of Transportation	Name:	Lake County Division of Transportation
Street Address:	600 W. Winchester Rd	Street Address:	600 W Winchester RD
PO Box:		PO Box:	
City:	Libertyville State: IL	City:	Libertyville State: IL
Zip Code:	60048 Phone:	Zip Code:	60048 Phone:
Contact:	Kevin Carrier	Contact:	Kevin Carrier
Email, if available:	KCarrier@lakecountyil.gov	Email, if available:	KCarrier@lakecountyil.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: 21st Street Access Improvements

Latitude: 42.457538 Longitude: -87.872490

(Decimal Degrees) (-Decimal Degrees)

Source Site Certification

III. Descriptions of Current and Past Uses of Source Site

Describe the current and past uses of the site and nearby properties.* Attach additional information as needed. The description must take into account, at a minimum, the following for the source site and for nearby property: (1) use of the properties for commercial or industrial purposes; (2) the use, storage or disposal of chemical or petroleum products in individual containers greater than 5 gallons or collectively more than 50 gallons; (3) the current or past presence of any storage tanks (above ground or underground); (4) any waste storage, treatment or disposal at the properties; (5) any reported releases or any environmental cleanup or removal of contaminants; (6) any environmental liens or governmental notification of environmental violations; (7) any contamination in a well that exceeds the Board's groundwater quality standards; (8) the use, storage, or disposal of transformers or capacitors manufactured before 1979; and (9) any fill dirt brought to the properties from an unknown source or site.

Number of pages attached: _____

See attached narrative.

*The description must be sufficient to demonstrate that the source site is not potentially impacted property, thereby allowing the source site owner or operator to provide this certification.

IV. Soil pH Testing Results

Describe the results of soil pH testing showing that the soil pH is within the range of 6.25 to 9.0 and attach any supporting documentation.

Number of pages attached: _____

pH laboratory results attached.

V. Source Site Owner, Operator or Authorized Representative's Certification Statement and Signature

In accordance with the Illinois Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I Steven F. Grant (owner, operator or authorized representataive of source site) certify that this site is not a potentially impacted property and the soil is presumed to be uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. I further certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. Additionally, I certify that I am either the site owner or operator or a duly authorized representative of the site owner or site operator and am authorized to sign this form. Furthermore, I certify that all 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.

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))

- ○ Owner
- ○ Operator
- ◉ Owner's Duly Authorized Representative
- ○ Operator's Duly Authorized Representative

Steven F. Grant, PE

Printed Name

Signature

5/5/2015

Date

Illinois Environmental Protection Agency

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

Source Site Certification by Owner or Operator for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-662 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 source site owners and operators to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(A), that soil (i) was removed from a site that is not potentially impacted property and is presumed to be uncontaminated soil and (ii) is within a pH range of 6.25 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 fill operations or uncontaminated soil fill operations.

I. Source Location Information

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

Project Name: Wadsworth Median (15-00999-18-RS) Office Phone Number, if available: _____

Physical Site Location (Street, Road): West median at the intersection of Wadsworth Rd and Sheridan Rd.

City: Beach Park State: IL Zip Code: 60099

County: Lake Township: Benton

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

Latitude: 42.429921 (Decimal Degrees) Longitude: -87.826903 (-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:	Lake County Division of Transportation	Name:	Lake County Division of Transportation
Street Address:	600 W Winchester Rd	Street Address:	600 W Winchester Rd
PO Box:		PO Box:	
City:	Libertyville State: IL	City:	Libertyville State: IL
Zip Code:	60048 Phone: 847-377-7400	Zip Code:	60048 Phone: 847-377-7400
Contact:	Kevin Carrier	Contact:	Kevin Carrier
Email, if available:	KCarrier@LakeCounty.gov	Email, if available:	KCarrier@LakeCounty.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: Wadsworth Median (15-00999-18-RS)

Latitude: 42.429921 Longitude: -87.826903

(Decimal Degrees) (-Decimal Degrees)

Source Site Certification

III. Descriptions of Current and Past Uses of Source Site

Describe the current and past uses of the site and nearby properties.* Attach additional information as needed. The description must take into account, at a minimum, the following for the source site and for nearby property: (1) use of the properties for commercial or industrial purposes; (2) the use, storage or disposal of chemical or petroleum products in individual containers greater than 5 gallons or collectively more than 50 gallons; (3) the current or past presence of any storage tanks (above ground or underground); (4) any waste storage, treatment or disposal at the properties; (5) any reported releases or any environmental cleanup or removal of contaminants; (6) any environmental liens or governmental notification of environmental violations; (7) any contamination in a well that exceeds the Board's groundwater quality standards; (8) the use, storage, or disposal of transformers or capacitors manufactured before 1979; and (9) any fill dirt brought to the properties from an unknown source or site.

Number of pages attached: 2

See Attached Narrative

*The description must be sufficient to demonstrate that the source site is not potentially impacted property, thereby allowing the source site owner or operator to provide this certification.

IV. Soil pH Testing Results

Describe the results of soil pH testing showing that the soil pH is within the range of 6.25 to 9.0 and attach any supporting documentation.

Number of pages attached: 12

pH Laboratory results attached.

V. Source Site Owner, Operator or Authorized Representative's Certification Statement and Signature

In accordance with the Illinois Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I Steven F. Grant (owner, operator or authorized representataive of source site) certify that this site is not a potentially impacted property and the soil is presumed to be uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. I further certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. Additionally, I certify that I am either the site owner or operator or a duly authorized representative of the site owner or site operator and am authorized to sign this form. Furthermore, I certify that all 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.

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))

- ○ Owner
- ○ Operator
- ◉ Owner's Duly Authorized Representative
- ○ Operator's Duly Authorized Representative

Steven G Grant, P.E.
Printed Name

Signature

2/29/2016
Date

INTENTIONALLY

BLANK

26 SCHEDULE OF DRAINAGE RELATED ITEMS

FROM STATION	TO STATION	LEFT OR RIGHT	OFFSET (FT)	TRENCH BACKFILL 20800150 (CU YD)	STONE RIPRAP, CLASS A3 28100105 (SQ YD)	PIPE CULVERT REMOVAL 50105220 (FT)	PRECAST REINFORCED CONCRETE FLARED END SECTION 12" 54213657 (EACH)	PRECAST REINFORCED CONCRETE FLARED END SECTION 15" 54213660 (EACH)	GRATED CULVERT END SECTIONS, 24" DIAMETER LC500228 (EACH)	STORM SEWER, CLASS A, TYPE 1 12" 550A0050 (FT)	STORM SEWER, CLASS A, TYPE 1 15" 550A0070 (FT)	STORM SEWER, CLASS A, TYPE 1 24" 550A0120 (FT)	STORM SEWER, CLASS A, TYPE 2 36" 550A0450 (FT)	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12" 550A2320 (FT)	STORM SEWER REMOVAL 15" 55100700 (FOOT)	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID 60218400 (EACH)	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE 60219000 (EACH)	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE 60224005 (EACH)	REMOVING MANHOLES 60500040 (EACH)	PIPE UNDERDRAINS 4" (MODIFIED) X6013600 (FT)
21st Street																				
14+60.00	16+50.00	LT	23.0 - 32.2																	202
16+50.00	18+50.00	LT	23.0 - 44.0																	205
17+31.60	17+53.80	LT	25.1			23														
17+50.00	---	LT	44.0				1													
17+50.00	18+50.00	LT	44.0											100						
18+50.00	---	LT	44.0														1			
18+50.00	20+83.90	LT	44.0	10.6						234										
19+74.90	20+83.90	LT	35.0 - 37.0																	115
20+03.20	20+80.30	LT	46.7 - 48.5												78					
20+83.90	22+15.40	LT	24.5 - 37.0																	137
20+83.30	---	LT	48.6																1	
20+83.90	---	LT	44.0															1		
20+83.90	---	LT	29.8 - 44.0	7.7									14							
20+83.90	---	LT	44.0 - 48.6										5							
20+84.00	---	LT	37.8																	
22+84.20	25+00.00	LT	20.2 - 29.4																	227
25+00.00	26+95.00	LT	17.0 - 36.4																	215
27+00.00	---	LT	39.0					1												
27+00.00	27+66.60	LT	39.0 - 41.9								67									
27+66.60	---	LT	41.9													1				
14+60.00	16+50.00	RT	23.0 - 37.4																	207
16+50.00	18+50.00	RT	23.0 - 32.2																	205
14+88.80	15+27.80	RT	28.5			40														
18+50.00	20+00.00	RT	23.0 - 32.2																	158
20+00.00	20+81.90	RT	23.0 - 25.1																	85
20+71.30	20+91.30	RT	34.5 - 46.5		27															
20+81.40	---	RT	40.5																	
20+81.40	---	RT	26.9 - 40.5										14							
20+81.90	22+00.00	RT	23.0 - 25.1																	119
22+00.00	23+50.00	RT	23.0 - 32.2																	161
23+50.00	25+00.00	RT	20.2 - 29.4																	158
25+00.00	26+45.00	RT	17.0 - 37.8																	168
26+50.00	---	RT	38.8					1												
26+50.00	27+43.30	RT	38.8	1.7							94									
27+43.30	---	RT	36.8													1				
Kenosha Road																				
53+33.10	53+54.60	LT	32.9 - 33.0			23														
53+38.20	53+58.60	LT	32.9 - 36.4									26								
53+58.60	---	LT	37.8						1											
53+63.20	---	LT	38.5		22															
54+41.40	54+63.90	LT	33.4			22														
			TOTAL	20	49	108	1	2	1	234	161	26	33	100	78	2	1	1	1	2362

33 FRAMES AND GRATES TO BE ADJUSTED (SPECIAL)

STATION	OFFSET	LT/RT	DESCRIPTION	EACH
6+38.30	19.1	LT	FRAMES & GRATES TO BE ADJUSTED - STORM	1
28+01.40	29.5	RT	FRAMES & GRATES TO BE ADJUSTED	1
28+10.20	27.9	RT	FRAMES & GRATES TO BE ADJUSTED	1
28+21.70	21.7	RT	FRAMES & GRATES TO BE ADJUSTED	1
			PAY CODE X6030205 TOTAL	4

34 INSTALL SURVEY MONUMENTS

STATION	LEFT OR RIGHT	QUANTITY (EACH)
21st STREET		
16+41.30	RT	1.0
PAY CODE LC600200		1.0
		1.0

32 SCHEDULE OF WATERMAIN RELATED ITEMS

STATION	OFFSET	LEFT OR RIGHT	INSERTING VALVES 12" 56105702 (EACH)	WATER VALVES TO BE ADJUSTED 56109210 (EACH)	FIRE HYDRANT AND VALVE TO BE MOVED 56400800 (EACH)
21st STREET					
14+27.50	34.3	RT	1		
16+41.30	40.0	RT			1
17+81.40	22.7	RT		1	
19+43.10	38.75	RT			1
22+16.10	23.2	RT		1	
22+52.00	48.75	RT			1
25+52.60	48.75	RT			1
TOTAL			1	2	4

35 TREE REPLACEMENT

CODE	PAY ITEM	Sym.	Sta. 16+00 to Sta. 17+00	Sta. 17+35 to Sta. 18+40
A2002920	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2-1/2" CALIPER, BALLED AND BURLAPPED	Ce oc	4	
A2007120	TREE, QUERCUS RUBRA (RED OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	Qu ru		4

REVISIONS / REMARKS

NO.	DESCRIPTION	DATE	BY
1	REVISED MH 27+43.3 RT	04/05/16	BR
		/ /	

SURVEYOR: /
DSGNR/LIAISON:
PLOTTED BY: khdl8691 4/5/2016

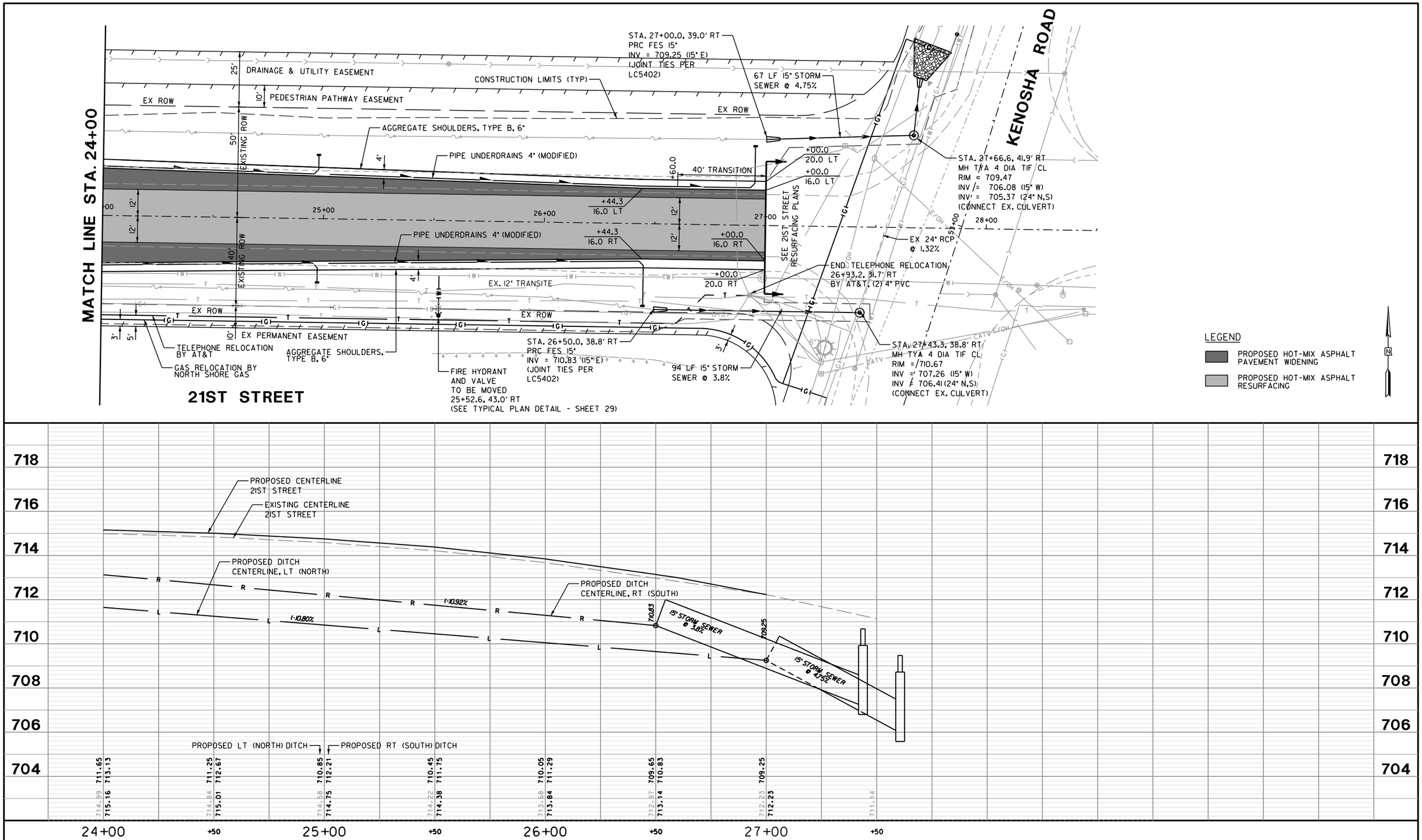
21st STREET RESURFACING

LakeCounty Division of Transportation

QUANTITY SHEET
21ST STREET RESURFACING

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH67	146	15-00999-18-RS	11	128

FILE NAME: U:\Design\Shrestha\15-00999-18-RS 21st Street Resurfacing (131 to Kenosha Rd)\B-00999$Sheet_0011_Quantity5.dgn



REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	___/___
1	REVISED MH 27+43.3 RT	04/05/16	BR	DSGNR/LIAISON:	
		___/___/___		PLOTTED BY: xhdl8691 4/5/2016	

SCALES: VERT. 2 0; HORIZ. 0 20 40

21st STREET WIDENING

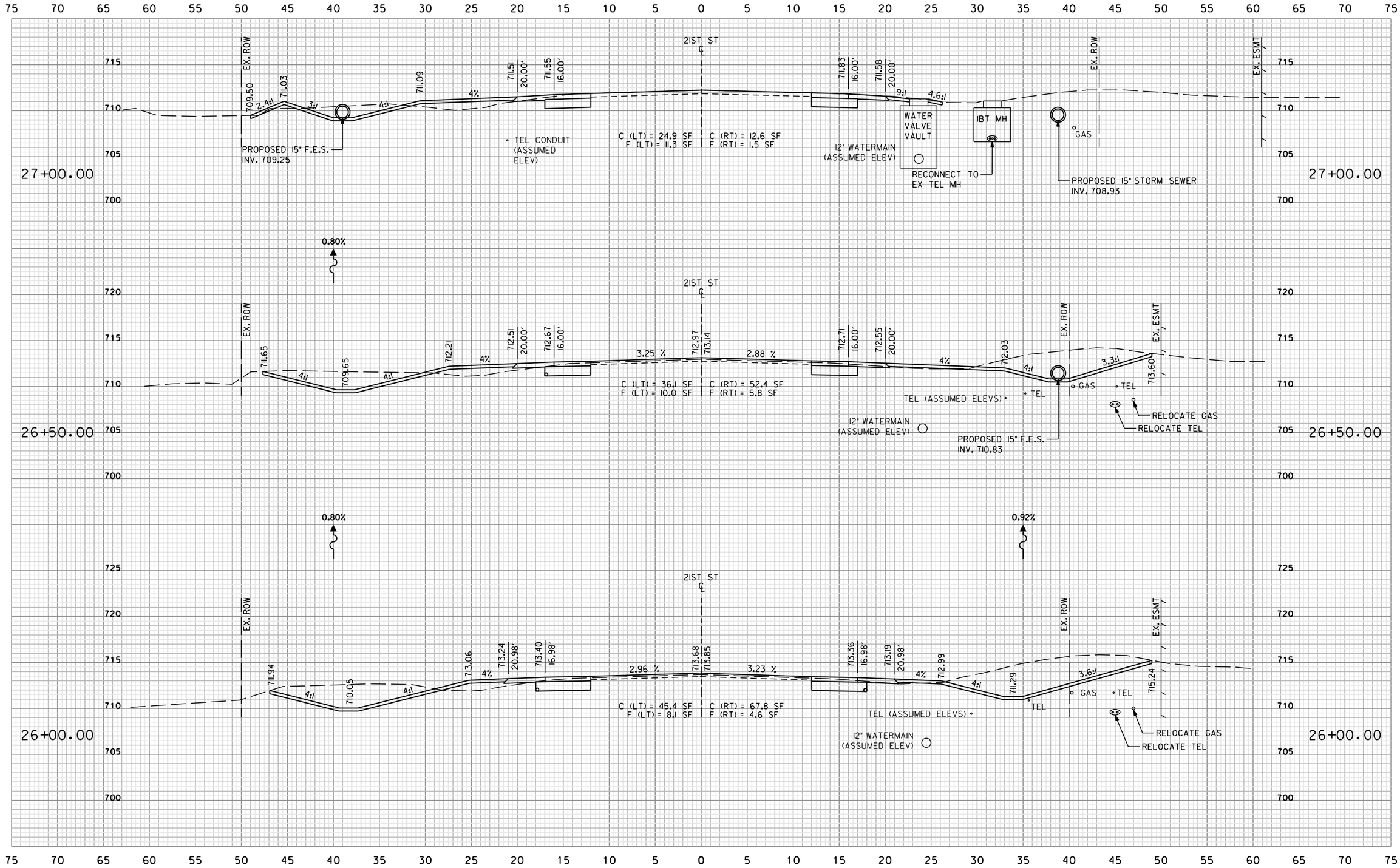
LakeCounty Division of Transportation

21ST STREET

PLAN & PROFILE STA. 24+00 TO STA. 27+00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH67	146	15-00999-18-RS	31	128

FILE NAME: U:\Design\Russo\15-00999-18-RS 21st Street Resurfacing (Access Improvements)\CAD\15-00999-18-RS.dgn



REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	___/___
1	REVISED MANHOLE 27+43.3 RT	04/05/16	BR	DSGNR/LIAISON:	___
		___/___/___	___	PLOTTED BY:	khd18691 4/5/2016

21st STREET WIDENING

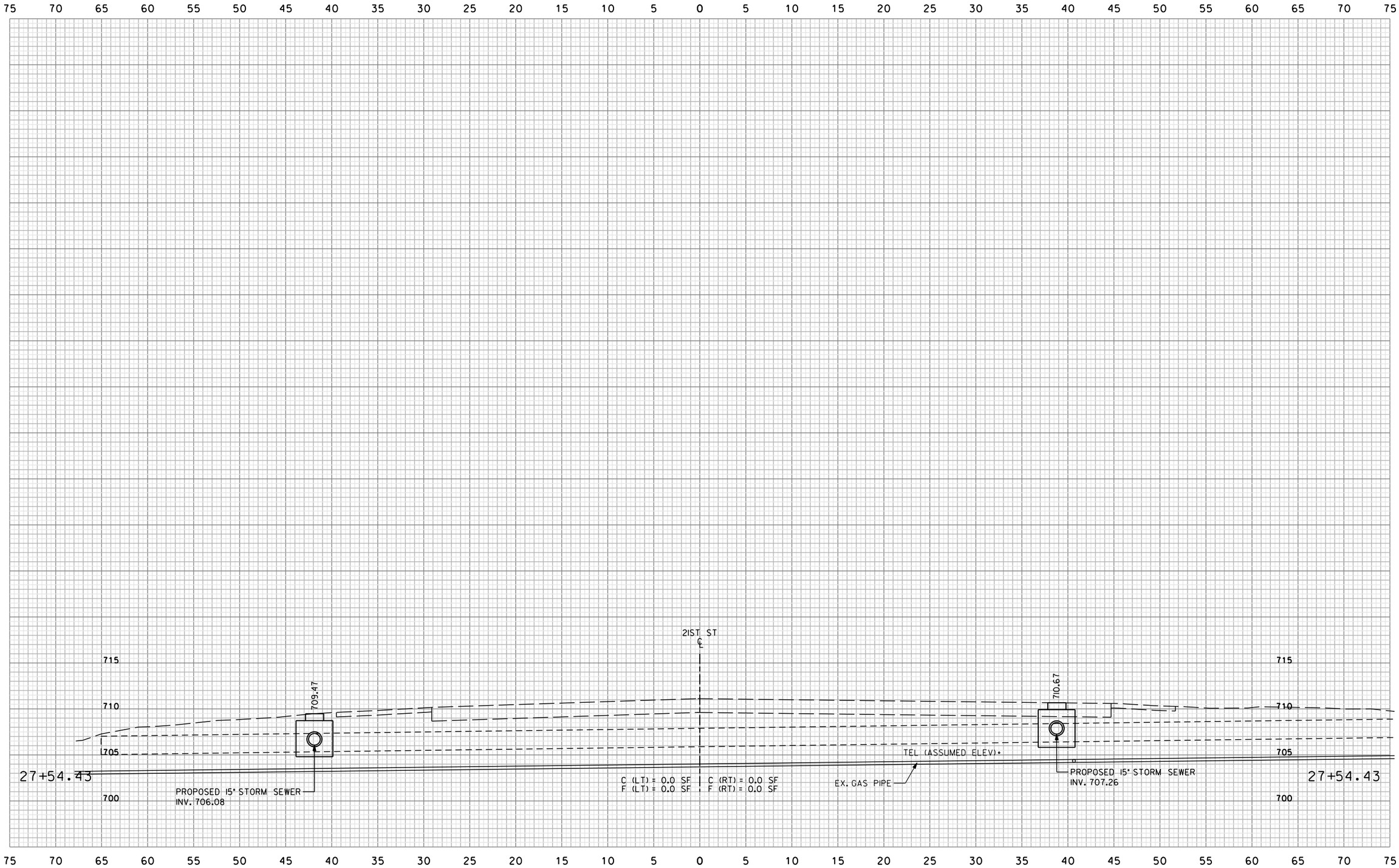
LakeCounty
Division of Transportation

21ST STREET

CROSS SECTION STA. 26+00.00 TO STA. 27+00.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH67	146	15-00999-18-RS	46	128

FILE NAME: U:\Design\Russo\15-00999-18-RS 21st Street Resurfacing (Access Improvements)\CAD\15-00999-18-RS.dgn



REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	___/___
1	REVISED MANHOLE 27+43.3 RT	04/05/16	BR	DSGNR/LIAISON:	___
		___/___/___	___	PLOTTED BY:	khdl8691 4/5/2016

21st STREET WIDENING

LakeCounty
Division of Transportation

21ST STREET

CROSS SECTION STA. 27+54.43

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH67	146	15-00999-18-RS	47	128

FILE NAME: U:\Design\Russo\15-00999-18-RS 21st Street Resurfacing (Access Improvements)\CAD\15-00999-18-RS.dgn