MAY 4 2015

Illinois Department of Transportation

Division of Highways / Region 3 / District 4
401 Main Street / Peoria, Illinois / 61602-1111
Telephone 309/671-3333

April 30, 2015

Motor Fuel Tax (MFT) Funds
City of Peoria
Section: 12-00361-01-PV
University Street (FAU 6593) from Nebraska Avenue to Forrest Hill Drive

Mr. Scott Reeise
City of Peoria
3505 North Dries Lane
Peoria, Illinois 61604

Dear Mr. Reeise:

The enclosed contract (BLR 12320) is recorded and awarded to Illinois Civil Contractors, Inc. in the amount of $3,339,335.50 for the above-mentioned section in the City of Peoria, per the *Agreement of Understanding*.

Sincerely,

Kensil A Garnett

Kensil A. Garnett, P.E.
Deputy Director of Highways,
Region Three Engineer

SJA/lmh

s:\gen\blrs\staff\alwan\transmittal letters\concurrence of award\citypeoria_univ_contractaward_12-00361-01-pv.docx

Enclosures

cc: Mrs. Beth Ball, City Clerk
Illinois Civil Contractors, Inc.
District Four Complaince Review Officer (Letter only)
File

RETURN WITH BID

Illinois Department of Transportation

Local Public Agency
Formal Contract

Illinois Civil Contractors, Inc.
420 Pinecrest Drive
East Peoria IL 61611

STATE OF ILLINOIS

COUNTY OF Peoria
City of Peoria
(Name of City, Village, Town or Road District)

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE NO. University Street (FAU 6593)
SECTION NO. 12-00361-01-PV
TYPES OF FUNDS MFT

☒ SPECIFICATIONS (required) ☒ PLANS (required)

For Municipal Projects
Submitted/Approved/Passed

☐ Mayor ☐ President of Board of Trustees ☒ Municipal Official

Date 3/11/15

Department of Transportation
☐ Released for bid based on limited review

AGREEMENT
Regional Engineer
OF UNDERSTANDING

Date

For County and Road District Projects
Submitted/Approved

Highway Commissioner

Date

Submitted/Approved

County Engineer/Superintendent of Highways

Date

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

TABLE OF CONTENTS

Add #2

County Peoria
Local Public Agency City of Peoria
Section Number 12-00361-01-PV
Route 6593

1. THIS AGREEMENT, made and concluded the 14th day of APRIL, 2015 (Month and Year),
between the CITY OF PEORIA, an Illinois Municipal Corporation
acting by and through its City Manager known as the party of the first part, and
ILLINOIS CIVIL CONTRACTORS, INC. his/their executors, administrators, successors or assigns,
known as the party of the second part.

2. Witnesseth: That for and in consideration of the payments and agreements mentioned in the Proposal hereto attached, to be made and performed by the party of the first part, and according to the terms expressed in the Bond referring to these presents, the party of the second part agrees with said party of the first part at his/their own proper cost and expense to do all the work, furnish all materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this agreement and the requirements of the Engineer under it.

3. And it is also understood and agreed that the LPA Formal Contract Proposal, Special Provisions, Affidavit of Illinois Business Office, Apprenticeship or Training Program Certification, and Contract Bond hereto attached, and the Plans for Section 12-00361-01-PV, in Peoria, Illinois, approved by the Illinois Department of Transportation on March 11 2015 (Date), are essential documents of this contract and are a part hereof.

4. IN WITNESS WHEREOF, The said parties have executed these presents on the date above mentioned.

Attest: Barb Bael City Clerk

(Seal)

APPROVED: Donald P. Leist
Corporation Counsel

The City of Peoria, an Illinois Municipal Corporation

By Pat Ulrich
City Manager — Party of the First Part

(If a Corporation)

Corporate Name Illinois Civil Contractors

By _____
President — Party of the Second Part

(If a Co-Partnership)

Attest: _____
Secretary

_____
Partners doing Business under the firm name of

_____
Party of the Second Part

(If an individual)

_____
Party of the Second Part

Illinois Department of Transportation

Contract Bond
Bond Number 2281620

Route 6593
County Peoria
Local Agency City of peoria
Section 12-00361-01-PV

(IN RE: UNIVERSITY STREET ARTERIAL OVERLAY PROJECT (Nebraska Ave Through W Forrest Hill Ave)

We, ILLINOIS CIVIL CONTRACTORS INC

a/an) ☐ Individual ☐ Co-partnership ☒ Corporation organized under the laws of the State of Illinois,

as PRINCIPAL, and West Bend Mutual Insurance Company

as SURETY,

are held and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of
THREE MILLION THREE HUNDRED THIRTY NINE THOUSAND THREE HUNDRED THIRTY FIVE AND 50/100

Dollars ($3,339,335.50), lawful money of the United States, well and truly to be paid unto said LA, for the payment of which we bind ourselves, our heirs, executors, administrators, successors, jointly to 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 has entered into a written contract with the LA acting through its awarding authority for the construction of work on the above section, which contract is hereby referred to and made a part hereof, as if written herein at length, and whereby the said Principal has promised and agreed to perform said work in accordance with the terms of said contract, and has promised to pay all sums of money due for any labor, materials, apparatus, fixtures or machinery furnished to such Principal for the purpose of performing such work and has further agreed to pay all direct and indirect damages to any person, firm, company or corporation suffered or sustained on account of the performance of such work during the time thereof and until such work is completed and accepted; and has further agreed that this bond shall inure to the benefit of any person, firm, company or corporation to whom any money may be due from the Principal, subcontractor or otherwise for any such labor, materials, apparatus, fixtures or machinery so furnished and that suit may be maintained on such bond by any such person, firm, company or corporation for the recovery of any such money.

NOW THEREFORE, if the said Principal shall well and truly perform said work in accordance with the terms of said contract, and shall pay all sums of money due or to become due for any labor, materials, apparatus, fixtures or machinery furnished to him for the purpose of constructing such work, and shall commence and complete the work within the time prescribed in said contract, and shall pay and discharge all damages, direct and indirect, that may be suffered or sustained on account of such work during the time of the performance thereof and until the said work shall have been accepted, and shall hold the LA and its awarding authority harmless on account of any such damages and shall in all respects fully and faithfully comply with all the provisions, conditions and requirements of said contract, then this obligation to be void; otherwise to remain in full force and effect.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this 13th day of April A.D. 2015

PRINCIPAL

Illinois Civil Contractors Inc.
(Company Name)

By: President
(Signature & Title)

Attest:
(Signature & Title)

(Company Name)

By:
(Signature & Title)

Attest:
(Signature & Title)

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

STATE OF ILLINOIS,

COUNTY OF Macon

I, Glenda Hoffman, a Notary Public in and for said county, do hereby certify that Michael L Fehr

(Insert names of individuals signing on behalf or PRINCIPAL)

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

Given under my hand and notarial seal this 13th day of April A.D. 2015

My commission expires 7-16-17

Notary Public (SEAL)

"OFFICIAL SEAL"
GLENDA HOFFMAN
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES 07-16-2017

SURETY

West Bend Mutual Insurance Company
(Name of Surety)

By:
(Signature of Attorney-in-Fact)

Ronald A Koopman (SEAL)

STATE OF ILLINOIS.

COUNTY OF Macon

I, Glenda Hoffman, a Notary Public in and for said county, do hereby certify that Ronald A Koopman

(Insert names of individuals signing on behalf or SURETY)

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

Given under my hand and notarial seal this 13th day of April A.D. 2015

My commission expires 7-16-17

Notary Public (SEAL)

"OFFICIAL SEAL"
GLENDA HOFFMAN
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES 07-16-2017

Approved this day of Apr. , A.D. 2015

Attest:

City Clerk

City of Peoria
(Awarding Authority)

~~(Chairman/Mayor/President)~~ City Manager

Donald P. Tait
Peoria City Counsel

WEST BEND
A MUTUAL INSURANCE COMPANY*

2281620

Power of Attorney

Know all men by these Presents, That West Bend Mutual Insurance Company, a corporation having its principal office in the City of West Bend, Wisconsin does make, constitute and appoint:

RONALD A KOOPMAN

lawful Attorney(s)-in-fact, to make, execute, seal and deliver for and on its behalf as surety and as its act and deed any and all bonds, undertakings and contracts of suretyship, provided that no bond or undertaking or contract of suretyship executed under this authority shall exceed in amount the sum of: Seven Million Five Hundred Thousand Dollars ($7,500,000)

This Power of Attorney is granted and is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of West Bend Mutual Insurance Company at a meeting duly called and held on the 21st day of December, 1999.

Appointment of Attorney-In-Fact. The president or any vice president, or any other officer of West Bend Mutual Insurance Company may appoint by written certificate Attorneys-in-Fact to act on behalf of the company in the execution of and attesting of bonds and undertakings and other written obligatory instruments of like nature. The signature of any officer authorized hereby and the corporate seal may be affixed by facsimile to any such power of attorney or to any certificate relating therefore and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the company, and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the company in the future with respect to any bond or undertaking or other writing obligatory in nature to which it is attached. Any such appointment may be revoked, for cause, or without cause, by any said officer at any time.

In witness whereof, the West Bend Mutual Insurance Company has caused these presents to be signed by its president undersigned and its corporate seal to be hereto duly attested by its secretary this 1st day of March, 2009.

Attest James J. Pauly

James J. Pauly
Secretary

WEST BEND MUTUAL INSURANCE COMPANY CORPORATE SEAL WASHINGTON CO. WIS.

Kevin A. Steiner

Kevin A. Steiner
Chief Executive Officer / President

State of Wisconsin
County of Washington

On the 1st day of March, 2009 before me personally came Kevin A. Steiner, to me known being by duly sworn, did depose and say that he resides in the County of Washington, State of Wisconsin; that he is the President of West Bend Mutual Insurance Company, the corporation described in and which executed the above instrument; that he knows the seal of the said corporation; that the seal affixed to said instrument is such corporate seal; that is was so affixed by order of the board of directors of said corporation and that he signed his name thereto by like order.

JOHN F. DUWELL NOTARY PUBLIC STATE OF WISCONSIN

John F. Duwell

John F. Duwell
Executive Vice President - Chief Legal Officer
Notary Public, Washington Co. WI
My Commission is Permanent

The undersigned, duly elected to the office stated below, now the incumbent in West Bend Mutual Insurance Company, a Wisconsin corporation authorized to make this certificate, Do Hereby Certify that the foregoing attached Power of Attorney remains in full force effect and has not been revoked and that the Resolution of the Board of Directors, set forth in the Power of Attorney is now in force.

Signed and sealed at West Bend, Wisconsin this 13 day of April, 2015

WEST BEND MUTUAL INSURANCE COMPANY CORPORATE SEAL WASHINGTON CO. WIS.

Dale J. Kent

Dale J. Kent
Executive Vice President -
Chief Financial Officer

NOTICE: Any questions concerning this Power of Attorney may be directed to the Bond Manager at NSI, a division of West Bend Mutual Insurance Company

8401 Greenway Blvd. Suite 1100 | P.O. Box 620976 | Middleton, WI 53562 | ph (608) 410-3410 | www.thesilverlining.com

ILL2000 OP ID: RT

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 04/13/15

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER J.L.Hubbard Insurance & Bonds 1090 South Route 51, PO Box 14 Forsyth, IL 62535-0014 Kevin J. Breheny 217-877-3344 217-877-0795	CONTACT NAME: Randy Taylor PHONE (A/C, No, Ext): 217-877-3344 FAX (A/C, No): 217-877-0795 E-MAIL ADDRESS: rtaylor@jlhubbard.com
INSURED Illinois Civil Contractors Inc ICCI Equipment Company LLC 420 Pinecrest Drive East Peoria, IL 61611	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A : West Bend Mutual Insurance — 15350 INSURER B : INSURER C : INSURER D : INSURER E : INSURER F :

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY [X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC			CPB2029599	12/31/14	12/31/15	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 200,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
	AUTOMOBILE LIABILITY [X] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [X] HIRED AUTOS [X] NON-OWNED AUTOS			CPB2029599	12/31/14	12/31/15	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
A	[X] UMBRELLA LIAB [X] OCCUR [ ] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [X] RETENTION $ -0-			CUB2029601	12/31/14	12/31/15	EACH OCCURRENCE AGGREGATE	$ 8,000,000 $ 8,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N [N] (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		WCB2029600	12/31/14	12/31/15	[X] WC STATU-TORY LIMITS [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
A	Rented Equipment			CPB2029599	12/31/14	12/31/15	Limit	1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Re: University Street Project, Nebraska Avenue through West Forest Hill Avenue

CERTIFICATE HOLDER

ICC0279

City of Peoria
419 Fulton
Peoria, IL 61604

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Kevin J. Breheny

Illinois Department of Transportation

Contract Bond

Route 6593
County Peoria
Local Agency City of peoria
Section 12-00361-01-PV

(IN RE: UNIVERSITY STREET ARTERIAL OVERLAY PROJECT (Nebraska Ave Through W Forrest Hill Ave)

We, ILLINOIS CIVIL CONTRACTORS INC

a/an) ☐ Individual ☐ Co-partnership ☐ Corporation organized under the laws of the State of _____,

as PRINCIPAL, and _____

_____ as SURETY,

are held and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of
THREE MILLION THREE HUNDRED THIRTY NINE THOUSAND THREE HUNDRED THIRTY FIVE AND 50/100

_____ Dollars ($3,339,335.50), lawful money of the United States, well and truly to be paid unto said LA, for the payment of which we bind ourselves, our heirs, executors, administrators, successors, jointly to 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 has entered into a written contract with the LA acting through its awarding authority for the construction of work on the above section, which contract is hereby referred to and made a part hereof, as if written herein at length, and whereby the said Principal has promised and agreed to perform said work in accordance with the terms of said contract, and has promised to pay all sums of money due for any labor, materials, apparatus, fixtures or machinery furnished to such Principal for the purpose of performing such work and has further agreed to pay all direct and indirect damages to any person, firm, company or corporation suffered or sustained on account of the performance of such work during the time thereof and until such work is completed and accepted; and has further agreed that this bond shall inure to the benefit of any person, firm, company or corporation to whom any money may be due from the Principal, subcontractor or otherwise for any such labor, materials, apparatus, fixtures or machinery so furnished and that suit may be maintained on such bond by any such person, firm, company or corporation for the recovery of any such money.

NOW THEREFORE, if the said Principal shall well and truly perform said work in accordance with the terms of said contract, and shall pay all sums of money due or to become due for any labor, materials, apparatus, fixtures or machinery furnished to him for the purpose of constructing such work, and shall commence and complete the work within the time prescribed in said contract, and shall pay and discharge all damages, direct and indirect, that may be suffered or sustained on account of such work during the time of the performance thereof and until the said work shall have been accepted, and shall hold the LA and its awarding authority harmless on account of any such damages and shall in all respects fully and faithfully comply with all the provisions, conditions and requirements of said contract, then this obligation to be void; otherwise to remain in full force and effect.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this _____ day of _____ A.D. _____

PRINCIPAL

_____ (Company Name)

By: _____ (Signature & Title)

Attest: _____ (Signature & Title)

_____ (Company Name)

By: _____ (Signature & Title)

Attest: _____ (Signature & Title)

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

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 or PRINCIPAL)

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

Given under my hand and notarial seal this _____ day of _____ A.D. _____

My commission expires _____ _____ Notary Public **(SEAL)**

SURETY

_____ (Name of Surety)

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

STATE OF ILLINOIS. **(SEAL)**

COUNTY OF _____

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

_____

_____ (Insert names of individuals signing on behalf or SURETY)

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

Given under my hand and notarial seal this _____ day of _____ A.D. _____

My commission expires _____ _____ Notary Public **(SEAL)**

Approved this _____ day of _____, A.D. _____

Attest:

_____ _____ (Awarding Authority)

_____ Clerk _____ (Chairman/Mayor/President)

RETURN WITH BID

NOTICE TO BIDDERS

County Peoria
Local Public Agency City of Peoria
Section Number 12-00361-01-PV
Route 6593

Sealed proposals for the improvement described below will be received at the office of City of Peoria,
3505 N. Dries Lane, Peoria, IL 61604 (Address) until 11:00 AM (Time) on April 1, 2015 (Date)

Sealed proposals will be opened and read publicly at the office of City of Peoria
3505 N. Dries Lane, Peoria, IL 61604 (Address) at 11:00 AM (Time) on April 1, 2015 (Date)

DESCRIPTION OF WORK

Name University Street Length: 5797.00 feet (1.1 miles)
Location Nebraska Avenue to Forrest Hill Avenue
Proposed Improvement Street rehabilitation, new sidewalks, new curb & gutter, and storm drainage improvements.
HMA pavement milling and resurfacing will be completed under another contract.

1. Plans and proposal forms will be available in the office of City of Peoria Public Works
   3505 N. Dries Lane, Peoria, IL 61604 (Address)
2. ☒ Prequalification
   If checked, the 2 low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57), in duplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One original shall be filed with the Awarding Authority and one original with the IDOT District Office.
3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals.
4. The following BLR Forms shall be returned by the bidder to the Awarding Authority:
   a. BLR 12200: Local Public Agency Formal Contract Proposal
   b. BLR 12200a Schedule of Prices
   c. BLR 12230: Proposal Bid Bond (if applicable)
   d. BLR 12325: Apprenticeship or Training Program Certification (**do not use for federally funded projects**)
   e. BLR 12326: Affidavit of Illinois Business Office
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.

RETURN WITH BID

PROPOSAL

County Peoria
Local Public Agency City of Peoria
Section Number 12-000361-01-PV
Route 6593

1. Proposal of _____

for the improvement of the above section by the construction of _____

a total distance of 5797.00 feet, of which a distance of 5797 feet, (1.1 miles) are to be improved.

2. The plans for the proposed work are those prepared by Crawford, Murphy & Tilly, Inc.
and approved by the Department of Transportation on March 11, 2015
3. The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the "Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.
4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.
5. The undersigned agrees to complete the work within _____ working days or by October 31, 2015 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:

Patrick Nichting Treasurer of _____

The amount of the check is _____ (_____).

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 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 work shall be in accordance with the requirements of each individual proposal for the multiple bid specified in the Schedule for Multiple Bids below.

SCHEDULE OF PRICES

County Peoria
Local Public Agency City of Peoria
Section 12-00361-01-PV
Route FAU 6593

Addendum #2 - 3/25/2015 - Modified items are underlined

PAY ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
	Bidder's Proposal for making Entire Improvements				
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	115		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	68		
20101200	TREE ROOT PRUNING	EACH	17		
20200100	EARTH EXCAVATION	CU YD	2,521		
25200110	SODDING, SALT TOLERANT	SQYD	4,050		
28000500	INLET AND PIPE PROTECTION	EACH	72		
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	8,542		
35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SQ YD	344		
35301400	PORTLAND CEMENT CONCRETE BASE COURSE (VARIABLE DEPTH)	SQ YD	827		
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	881		
~~40600115~~	~~POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)~~	~~GALLON~~	~~8,036~~		
~~40600827~~	~~POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL 4.75, N50~~	~~TON~~	~~580~~		
~~40603214~~	~~POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-12.5, N70~~	~~TON~~	~~6,428~~		
~~40603565~~	~~POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70~~	~~TON~~	~~3,237~~		
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	74		
42000900	HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 8"	SQ YD	190		
~~42001000~~	~~HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 9"~~	~~SQ YD~~	~~27~~		
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	803		
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	1,196		
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	70,223		
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	121		
42400800	DETECTABLE WARNINGS	SQ FT	771		
44000100	PAVEMENT REMOVAL	SQ YD	5,613		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	2,205		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	14,012		
44000600	SIDEWALK REMOVAL	SQ FT	49,802		
44003100	MEDIAN REMOVAL	SQ FT	1,682		
44200168	PAVEMENT PATCHING, TYPE II, 14 INCH	SQ YD	64		
44200172	PAVEMENT PATCHING, TYPE III, 14 INCH	SQ YD	280		
~~44201761~~	~~CLASS D PATCHES, TYPE I, 10 INCH~~	~~SQ YD~~	~~250~~		
~~44201765~~	~~CLASS D PATCHES, TYPE II, 10 INCH~~	~~SQ YD~~	~~800~~		
~~44201769~~	~~CLASS D PATCHES, TYPE III, 10 INCH~~	~~SQ YD~~	~~400~~		
50900805	PEDESTRIAN RAILING	FOOT	34		
550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	420		
550B0340	STORM SEWERS, CLASS B, TYPE 2 12"	FOOT	624		
55100200	STORM SEWER REMOVAL 6"	FOOT	10		
55100300	STORM SEWER REMOVAL 8"	FOOT	12		
55100400	STORM SEWER REMOVAL 10"	FOOT	47		

SCHEDULE OF PRICES

County Peoria
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Addendum #2 - 3/25/2015 - Modified items are underlined

PAY ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
55100500	STORM SEWER REMOVAL 12"	FOOT	579		
60100080	FRENCH DRAINS	TON	2,689		
60100085	GEOTECHNICAL FABRIC FOR FRENCH DRAINS	SQ YD	718		
~~60107600~~	~~PIPE UNDERDRAINS 4"~~	~~FOOT~~	~~0~~		
60107700	PIPE UNDERDRAINS 6"	FOOT	2,967		
60107800	PIPE UNDERDRAINS 8"	FOOT	446		
60108000	PIPE UNDERDRAINS 12"	FOOT	2,596		
60208230	CATCH BASINS, TYPE C, TYPE 23 FRAME AND GRATE	EACH	28		
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1		
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		
60219300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	2		
60219530	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	7		
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	2		
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	5		
60237460	INLETS, TYPE A, TYPE 23 FRAME AND GRATE	EACH	5		
60240210	INLETS, TYPE B, TYPE 1 FRAME, OPEN LID	EACH	1		
60240310	INLETS, TYPE B, TYPE 11 FRAME AND GRATE	EACH	4		
60240327	INLETS, TYPE B, TYPE 23 FRAME AND GRATE	EACH	13		
60255500	MANHOLES TO BE ADJUSTED	EACH	7		
60260100	INLETS TO BE ADJUSTED	EACH	1		
60260400	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	6		
60500040	REMOVING MANHOLES	EACH	4		
60500060	REMOVING INLETS	EACH	38		
60600605	CONCRETE CURB, TYPE B	FOOT	1,185		
60604100	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)	FOOT	3,811		
60604700	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 (MODIFIED)	FOOT	9,865		
63200310	GUARDRAIL REMOVAL	FOOT	27		
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	929		
~~66900205~~	~~SPECIAL WASTE DISPOSAL~~	~~CU YD~~	~~0~~		
~~66900210~~	~~HAZARDOUS WASTE DISPOSAL~~	~~CU YD~~	~~0~~		
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1		
66900530	SOIL DISPOSAL ANALYSIS	EACH	10		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6		
~~70300100~~	~~SHORT TERM PAVEMENT MARKING~~	~~FOOT~~	~~32,625~~		
72000100	SIGN PANEL - TYPE 1	SQ FT	30		
~~78006100~~	~~PREFORMED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS~~	~~SQ FT~~	~~832~~		
~~78006110~~	~~PREFORMED THERMOPLASTIC PAVEMENT MARKING - LINE 4"~~	~~FOOT~~	~~23,040~~		
~~78006130~~	~~PREFORMED THERMOPLASTIC PAVEMENT MARKING - LINE 6"~~	~~FOOT~~	~~3,709~~		
~~78006180~~	~~PREFORMED THERMOPLASTIC PAVEMENT MARKING - LINE 24"~~	~~FOOT~~	~~792~~		
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1		

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PAY ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	4,906		
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	3,318		
81028360	UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	111		
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	29		
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	462		
81028400	UNDERGROUND CONDUIT, PVC, 5" DIA.	FOOT	72		
81400100	HANDHOLE	EACH	40		
81400300	DOUBLE HANDHOLE	EACH	1		
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,102		
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	1,575		
82103400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	4		
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	21		
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1		
86200200	UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	3		
86400100	TRANSCEIVER - FIBER OPTIC	EACH	3		
87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	5,645		
~~87100120~~	~~FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 8F~~	~~FOOT~~	0		
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2,599		
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,782		
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,608		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,290		
87301515	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	5,167		
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	40		
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	924		
87502490	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	4		
87601100	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	1		
87601200	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE II	EACH	2		
87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	2		
87702985	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1		
87703010	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1		
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	18		
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	45		
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21		
87900200	DRILL EXISTING HANDHOLE	EACH	10		
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9		
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1		
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2		
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2		
88030230	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	2		
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN	EACH	8		

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PAY ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN	EACH	8		
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	11		
88500100	INDUCTIVE LOOP DETECTOR	EACH	27		
88600100	DETECTOR LOOP, TYPE I	FOOT	3,783		
88800100	PEDESTRIAN PUSH-BUTTON	EACH	15		
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	1		
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2		
89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	1		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8,600		
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3		
89502376	REBUILD EXISTING HANDHOLE	EACH	1		
89502380	REMOVE EXISTING HANDHOLE	EACH	3		
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5		
A2001216	TREE, ACER RUBRUM RED SUNSET (RED SUNSET RED MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	4		
A2002879	TREE, CELTIS OCCIDENTALIS CHICAGOLAND, (CHICAGOLAND COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	3		
A2004617	TREE, GLEDITSIA TRIACANTHOS VAR. INERMIS DRAVES (STREET KEEPER HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3		
A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	3		
A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	2		
B2006316	TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 2"	EACH	2		
B200XXXX	TREE, MALUS X "PINK SPARKLES" (PINK SPARKLES CRABAPPLE), 2" CALIPER, TREE FORM.	EACH	6		
D2002148	EVERGREEN, PICEA PUNGENS (COLORADO SPRUCE), 4' HEIGHT, BALLED AND BURLAPPED	EACH	1		
D2012202	EVERGREEN, PINUS STROBUS (EASTERN WHITE PINE), 2" CALIPER, BALLED AND	EACH	1		
X0326812	CAT 5 ETHERNET CABLE	FOOT	229		
X0326905	CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	1		
X0327008	REMOVE AND RELOCATE SIGN (SPECIAL)	EACH	1		
X0540000	BRICK PAVERS	SQ FT	1,012		
~~X4401198~~	~~HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH~~	~~SQ YD~~	~~41,189~~		
~~X4402020~~	~~CONCRETE MEDIAN SURFACE REMOVAL~~	~~SQ FT~~	~~452~~		
~~X4406010~~	~~PARTIAL DEPTH REMOVAL, TYPE I, VARIABLE DEPTH~~	~~SQ YD~~	~~250~~		
~~X4406210~~	~~PARTIAL DEPTH REMOVAL, TYPE II, VARIABLE DEPTH~~	~~SQ YD~~	~~800~~		
~~X4406410~~	~~PARTIAL DEPTH REMOVAL, TYPE III, VARIABLE DEPTH~~	~~SQ YD~~	~~400~~		
~~X4421000~~	~~PARTIAL DEPTH PATCHING~~	~~TON~~	~~336~~		
X6060505	CONCRETE CURB (SPECIAL)	FOOT	549		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		
X8710050	FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	2		
X8760001	IN GROUND PEDESTRIAN LIGHTING SYSTEM COMPLETE, SPECIAL	EACH	1		
Z0013302	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	43		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		

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Addendum #2 - 3/25/2015 - Modified items are underlined

PAY ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
~~Z0038121~~	~~PORTLAND CEMENT CONCRETE SURFACE REMOVAL 2"~~	~~SQ YD~~	~~934~~		
Z0075500	TIMBER RETAINING WALL	SQ FT	164		
X0000001	METER PEDESTAL AND LIGHTING CONTROLLER COMBINATION UNIT	EACH	1		
X0000002	LED STREET LIGHT POLE AND LUMINAIRE (COMPLETE)	EACH	3		
X0000003	SOIL CELLS	EACH	48		
X0000004	CONCRETE WALL, SPECIAL	SQ FT	627		
X0000005	LANDSCAPE WALL RELOCATION	SQFT	293		

CONTRACTOR CERTIFICATIONS

County Peoria
Local Public Agency City of Peoria
Section Number 12-00361-01-PV
Route 6593

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.

Bid Proposal

Illinois Civil Contractors, Inc.

420 Pinecrest Drive
East Peoria, IL 61611
Contact: Michael Fehr (mfehr@ilcivil.com)
Phone: (o) 309-694-4224 (m) 309-208-7281
Fax: 309-694-5676

Quote To: City of Peoria

Job Name: University-Nebraska Ave- Forrest Hill
Bid Date: 4/1/2015
Addendum(s): 1,2

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	115.00	UNIT	44.00	5,060.00
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	68.00	UNIT	55.00	3,740.00
20101200	TREE ROOT PRUNING	17.00	EACH	110.00	1,870.00
20200100	EARTH EXCAVATION	2,521.00	CU Y	28.70	72,352.70
25200110	SODDING, SALT TOLERANT	4,050.00	SQYD	8.50	34,425.00
28000500	INLET AND PIPE PROTECTION	72.00	EACH	190.00	13,680.00
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	8,542.00	TON	31.10	265,656.20
35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	344.00	SQ Y	43.40	14,929.60
35301400	PCC BASE COURSE (VARIABLE DEPTH)	827.00	SQ Y	47.00	38,869.00
40201000	AGGREGATE FOR TEMPORARY ACCESS	881.00	TON	49.00	43,169.00
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	74.00	TON	220.00	16,280.00
42000900	HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEM	190.00	SQ Y	86.10	16,359.00
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INC	803.00	SQ Y	60.80	48,822.40
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INC	1,196.00	SQ Y	69.60	83,241.60
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	70,223.00	SQ F	5.50	386,226.50
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	121.00	SQ F	8.50	1,028.50
42400800	DETECTABLE WARNINGS	771.00	SQ F	21.20	16,345.20
44000100	PAVEMENT REMOVAL	5,613.00	SQ Y	11.00	61,743.00
44000200	DRIVEWAY PAVEMENT REMOVAL	2,205.00	SQ Y	12.00	26,460.00
44000500	COMBINATION CURB AND GUTTER REMOVAL	14,012.00	FOOT	9.00	126,108.00
44000600	SIDEWALK REMOVAL	49,802.00	SQ F	1.65	82,173.30
44003100	MEDIAN REMOVAL	1,682.00	SQ F	3.00	5,046.00
44200168	PAVEMENT PATCHING, TYPE II, 14 INCH	64.00	SQ Y	100.00	6,400.00
44200172	PAVEMENT PATCHING, TYPE III, 14 INCH	280.00	SQ Y	100.00	28,000.00
50900805	PEDESTRIAN RAILING	34.00	FOOT	86.30	2,934.20
550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	420.00	FOOT	70.20	29,484.00

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
550B0340	STORM SEWERS, CLASS B, TYPE 2 12"	624.00	FOOT	79.60	49,670.40
55100200	STORM SEWER REMOVAL 6"	10.00	FOOT	18.00	180.0
55100300	STORM SEWER REMOVAL 8"	12.00	FOOT	18.00	216.00
55100400	STORM SEWER REMOVAL 10"	47.00	FOOT	18.00	846.00
55100500	STORM SEWER REMOVAL 12"	579.00	FOOT	20.00	11,580.00
60100080	FRENCH DRAINS	2,689.00	TON	51.40	138,214.60
60100085	GEOTECHNICAL FABRIC FOR FRENCH DRAINS	718.00	SQ Y	4.00	2,872.00
60107700	PIPE UNDERDRAINS 6"	2,967.00	FOOT	20.00	59,340.00
60107800	PIPE UNDERDRAINS 8"	446.00	FOOT	24.00	10,704.00
60108000	PIPE UNDERDRAINS 12"	2,596.00	FOOT	31.00	80,476.00
60208230	CATCH BASINS, TYPE C, TYPE 23 FRAME AND GRATE	28.00	EACH	1,900.00	53,200.00
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN	1.00	EACH	2,500.00	2,500.00
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSE	1.00	EACH	2,600.00	2,600.00
60219300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND G	2.00	EACH	3,100.00	6,200.00
60219530	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND G	7.00	EACH	3,000.00	21,000.00
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	2.00	EACH	1,200.00	2,400.00
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	5.00	EACH	1,900.00	9,500.00
60237460	INLETS, TYPE A, TYPE 23 FRAME AND GRATE	5.00	EACH	1,400.00	7,000.0
60240210	INLETS, TYPE B, TYPE 1 FRAME, OPEN LID	1.00	EACH	1,300.00	1,300.00
60240310	INLETS, TYPE B, TYPE 11 FRAME AND GRATE	4.00	EACH	1,900.00	7,600.00
60240327	INLETS, TYPE B, TYPE 23 FRAME AND GRATE	13.00	EACH	1,900.00	24,700.00
60255500	MANHOLES TO BE ADJUSTED	7.00	EACH	1,400.00	9,800.00
60260100	INLETS TO BE ADJUSTED	1.00	EACH	680.00	680.00
60260400	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSE	6.00	EACH	960.00	5,760.00
60500040	REMOVING MANHOLES	4.00	EACH	520.00	2,080.00
60500060	REMOVING INLETS	38.00	EACH	370.00	14,060.00
60600605	CONCRETE CURB, TYPE B	1,185.00	FOOT	35.00	41,475.00
60604100	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	3,811.00	FOOT	30.00	114,330.00
60604700	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	9,865.00	FOOT	27.00	266,355.00
63200310	GUARDRAIL REMOVAL	27.00	FOOT	11.00	297.00
66900200	NON-SPECIAL WASTE DISPOSAL	929.00	CU Y	85.00	78,965.00
66900450	SPECIAL WASTE PLANS AND REPORTS	1.00	L SU	6,600.00	6,600.00
66900530	SOIL DISPOSAL ANALYSIS	10.00	EACH	1,300.00	13,000.00
67000400	ENGINEER'S FIELD OFFICE, TYPE A	6.00	CAL	2,000.00	12,000.00
72000100	SIGN PANAL TYPE 1	30.00	SF	41.60	1,248.00
80400100	ELECTRIC SERVICE INSTALLATION	1.00	EACH	1,400.00	1,400.00
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	4,906.00	FOOT	10.40	51,022.4
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	3,318.00	FOOT	15.40	51,097.20
81028360	UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	111.00	FOOT	7.05	782.55

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	29.00	FOOT	13.30	385.70
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	462.00	FOOT	51.40	23,746.80
81028400	UNDERGROUND CONDUIT, PVC, 5" DIA.	72.00	FOOT	18.50	1,332.00
81400100	HANDHOLE	40.00	EACH	1,500.00	60,000.00
81400300	DOUBLE HANDHOLE	1.00	EACH	2,700.00	2,700.00
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C	1,102.00	FOOT	0.90	991.80
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C	1,575.00	FOOT	1.10	1,732.50
82103400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-C	4.00	EACH	970.00	3,880.00
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	21.00	FOOT	150.00	3,150.00
84400105	RELOCATE EXISTING LIGHTING UNIT	1.00	EACH	370.00	370.00
86200200	UNINTERRUPTABLE POWER SUPPLY, STANDARD	3.00	EACH	6,600.00	19,800.00
86400100	TRANSCEIVER - FIBER OPTIC	3.00	EACH	2,300.00	6,900.00
87100120	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F	5,645.00	FOOT	12.10	68,304.50
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	2,599.00	FOOT	1.00	2,599.00
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	1,782.00	FOOT	1.05	1,871.10
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	2,608.00	FOOT	1.30	3,390.40
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	2,290.00	FOOT	1.50	3,435.00
87301515	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	5,167.00	FOOT	2.70	13,950.90
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	40.00	FOOT	3.10	124.00
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CON	924.00	FOOT	2.15	1,986.60
87502490	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	4.00	EACH	980.00	3,920.00
87601100	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYP	1.00	EACH	1,100.00	1,100.00
87601200	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYP	2.00	EACH	1,100.00	2,200.00
87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT	2.00	EACH	13,000.00	26,000.00
87702985	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT	1.00	EACH	15,000.00	15,000.00
87703010	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT	1.00	EACH	18,000.00	18,000.00
87800100	CONCRETE FOUNDATION, TYPE A	18.00	FOOT	170.00	3,060.00
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	45.00	FOOT	240.00	10,800.00
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	21.00	FOOT	370.00	7,770.00
87900200	DRILL EXISTING HANDHOLE	10.00	EACH	210.00	2,100.00

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUN	9.00	EACH	690.00	6,210.00
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNT	1.00	EACH	670.00	670.00
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNT	2.00	EACH	930.00	1,860.00
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUN	2.00	EACH	970.00	1,940.00
88030230	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION	2.00	EACH	1,500.00	3,000.00
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNT	8.00	EACH	750.00	6,000.00
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNT	8.00	EACH	1,500.00	12,000.00
88200100	TRAFFIC SIGNAL BACKPLATE	11.00	EACH	150.00	1,650.00
88500100	INDUCTIVE LOOP DETECTOR	27.00	EACH	220.00	5,940.00
88600100	DETECTOR LOOP, TYPE I	3,783.00	FOOT	12.40	46,909.20
88800100	PEDESTRIAN PUSH-BUTTON	15.00	EACH	340.00	5,100.00
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	1.00	EACH	27,000.00	27,000.00
89500100	RELOCATE EXISTING SIGNAL HEAD	1.00	EACH	370.00	370.00
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	2.00	EACH	370.00	740.00
89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	1.00	EACH	200.00	200.00
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	8,600.00	FOOT	0.75	6,450.00
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	3.00	EACH	5,100.00	15,300.00
89502376	REBUILD EXISTING HANDHOLE	1.00	EACH	1,500.00	1,500.00
89502380	REMOVE EXISTING HANDHOLE	3.00	EACH	610.00	1,830.00
89502382	REMOVE EXISTING DOUBLE HANDHOLE	1.00	EACH	1,400.00	1,400.00
89502385	REMOVE EXISTING CONCRETE FOUNDATION	5.00	EACH	1,100.00	5,500.00
A2001216	TREE, ACER RUBRUM RED SUNSET (RED SUNSET RED MAPLE	4.00	EACH	420.00	1,680.00
A2002879	TREE, CELTIS OCCIDENTALIS CHICAGOLAND, (CHICAGOLAN	3.00	EACH	480.00	1,440.00
A2004617	TREE, GLEDITSIA TRIACANTHOS VAR. INERMIS DRAVES (S	3.00	EACH	420.00	1,260.00
A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPE	3.00	EACH	440.00	1,320.00
A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED	2.00	EACH	420.00	840.00
B2006316	TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JA	2.00	EACH	410.00	820.00
B200XXXX	TREE, MALUS X "PINK SPARKLES" (PINK SPARKLES CRABA	6.00	EACH	400.00	2,400.00
D2002148	EVERGREEN, PICEA PUNGENS (COLORADO SPRUCE), 4' HEI	1.00	EACH	310.00	310.00
D2012202	EVERGREEN, PINUS STROBUS (EASTERN WHITE PINE), 2"	1.00	EACH	380.00	380.00

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
X0326812	CAT 5 ETHERNET CABLE	229.00	FOOT	3.35	767.15
X0326905	CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	1.00	EACH	4,000.00	4,000.00
X0327008	REMOVE AND RELOCATE SIGN (SPECIAL)	1.00	EACH	310.00	310.00
X0540000	BRICK PAVERS	1,012.00	SQ F	21.70	21,960.40
X6060505	CONCRETE CURB (SPECIAL)	549.00	FOOT	50.10	27,504.90
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	1.00	L SU	~~63,000.00~~ 53,000.00	~~63,000.00~~ 53,000.00
X8710050	FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	2.00	EACH	480.00	960.00
X8760001	IN GROUND PEDESTRIAN LIGHTING SYSTEM COMPLETE, SPE	1.00	EACH	13,000.00	13,000.00
Z0013302	SEGMENTAL CONCRETE BLOCK WALL	43.00	SQ F	42.30	1,818.90
Z0013798	CONSTRUCTION LAYOUT	1.00	L SU	52,000.00	52,000.00
Z0075500	TIMBER RETAINING WALL	164.00	SQ F	28.00	4,592.00
X0000001	METER PEDESTAL AND LIGHTING CONTROLLER COMBINATION	1.00	EACH	7,600.00	7,600.00
X0000002	LED STREET LIGHT POLE AND LUMINAIRE (COMPLETE)	3.00	EACH	4,600.00	13,800.00
X0000003	SOIL CELLS	48.00	EACH	430.00	20,640.00
X0000004	CONCRETE WALL, SPECIAL	627.00	SQ F	63.70	39,939.90
X0000005	LANDSCAPE WALL RELOCATION	293.00	SQ F	38.80	11,368.40
GRAND TOTAL					~~$3,349,335.50~~ 3339,335.50

JP

RETURN WITH BID

County Peoria
Local Public Agency City of Peoria
Section Number 12-00361-01-PV
Route 6593

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 Illinois Civil Contractors, Inc.

Signed By _____
President

Business Address 420 Pinecrest Drive
East Peoria, IL 61611

Insert Names of Officers
President Michael L. Fehr
Secretary Jeff Fuerst
Treasurer _____

Attest: _____
Secretary

Illinois Department of Transportation

Local Agency Proposal Bid Bond

Route 6593
County Peoria
Local Agency City of Peoria
Section 12-00361-01-PV

RETURN WITH BID

PAPER BID BOND

WE Illinois Civil Contractors Inc. as PRINCIPAL,

and West Bend Mutual Insurance Company 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 1st day of April, 2015

Principal

Illinois Civil Contractors Inc.
(Company Name)

By: [signature] President
(Signature and Title)

(Company Name)

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

West Bend Mutual Insurance Company
(Name of Surety)

By: [signature]
(Signature of Attorney-in-Fact)

STATE OF ILLINOIS,
COUNTY OF Macon
I, Amanda Rhoades, a Notary Public in and for said county,
do hereby certify that Ronald A. Koopman
(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 1st day of April, 2015

My commission expires July 21, 2018

[signature]
(Notary Public)

"OFFICIAL SEAL"
AMANDA RHOADES
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES 07-21-2018

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

BLR 12230 (Rev. 7/05

WEST BEND
A MUTUAL INSURANCE COMPANY

2281620

Power of Attorney

Know all men by these Presents, That West Bend Mutual Insurance Company, a corporation having its principal office in the City of West Bend, Wisconsin does make, constitute and appoint:

RONALD A KOOPMAN

lawful Attorney(s)-in-fact, to make, execute, seal and deliver for and on its behalf as surety and as its act and deed any and all bonds, undertakings and contracts of suretyship, provided that no bond or undertaking or contract of suretyship executed under this authority shall exceed in amount the sum of: Seven Million Five Hundred Thousand Dollars ($7,500,000)

This Power of Attorney is granted and is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of West Bend Mutual Insurance Company at a meeting duly called and held on the 21st day of December, 1999.

Appointment of Attorney-In-Fact. The president or any vice president, or any other officer of West Bend Mutual Insurance Company may appoint by written certificate Attorneys-in-Fact to act on behalf of the company in the execution of and attesting of bonds and undertakings and other written obligatory instruments of like nature. The signature of any officer authorized hereby and the corporate seal may be affixed by facsimile to any such power of attorney or to any certificate relating therefore and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the company, and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the company in the future with respect to any bond or undertaking or other writing obligatory in nature to which it is attached. Any such appointment may be revoked, for cause, or without cause, by any said officer at any time.

In witness whereof, the West Bend Mutual Insurance Company has caused these presents to be signed by its president undersigned and its corporate seal to be hereto duly attested by its secretary this 1st day of March, 2009.

Attest James J. Pauly

James J. Pauly
Secretary

WEST BEND MUTUAL INSURANCE COMPANY CORPORATE SEAL WASHINGTON CO. WIS.

Kevin A. Steiner

Kevin A. Steiner
Chief Executive Officer / President

State of Wisconsin
County of Washington

On the 1st day of March, 2009 before me personally came Kevin A. Steiner, to me known being by duly sworn, did depose and say that he resides in the County of Washington, State of Wisconsin; that he is the President of West Bend Mutual Insurance Company, the corporation described in and which executed the above instrument; that he knows the seal of the said corporation; that the seal affixed to said instrument is such corporate seal; that is was so affixed by order of the board of directors of said corporation and that he signed his name thereto by like order.

JOHN F. DUWELL NOTARY PUBLIC STATE OF WISCONSIN

John F. Duwell

John F. Duwell
Executive Vice President - Chief Legal Officer
Notary Public, Washington Co. WI
My Commission is Permanent

The undersigned, duly elected to the office stated below, now the incumbent in West Bend Mutual Insurance Company, a Wisconsin corporation authorized to make this certificate, Do Hereby Certify that the foregoing attached Power of Attorney remains in full force effect and has not been revoked and that the Resolution of the Board of Directors, set forth in the Power of Attorney is now in force.

Signed and sealed at West Bend, Wisconsin this 1 day of April, 2015

WEST BEND MUTUAL INSURANCE COMPANY CORPORATE SEAL WASHINGTON CO. WIS.

Dale J. Kent

Dale J. Kent
Executive Vice President -
Chief Financial Officer

NOTICE: Any questions concerning this Power of Attorney may be directed to the Bond Manager at NSI, a division of West Bend Mutual Insurance Company

8401 Greenway Blvd. Suite 1100 | P.O. Box 620976 | Middleton, WI 53562 | ph (608) 410-3410 | www.thesilverlining.com

Illinois Department of Transportation

Apprenticeship or Training Program Certification

Return with Bid

Route	6593
County	Peoria
Local Agency	City of Peoria
Section	12-00361-01-PV

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.

Dept. of Labor Approved:
LABORERS
Finishers
Operators
CARPENTERS

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: Illinois Civil Contractors, Inc.

Address: 420 Pinecrest Drive
East Peoria, IL 61611

By: _____ (Signature)

Title: President

RETURN WITH BID

Illinois Department of Transportation

Affidavit of Illinois Business Office

County Peoria
Local Public Agency City of Peoria
Section Number 12-00361-01-PV
Route 6593

State of Illinois)
) ss.
County of Tazewell)

I, Michael L. Fehr (Name of Affiant) of East Peoria (City of Affiant), Illinois (State of Affiant),

being first duly sworn upon oath, states as follows:

1. That I am the President (officer or position) of Illinois Civil Contractors, Inc. (bidder).
2. That I have personal knowledge of the facts herein stated.
3. That, if selected under this proposal, Illinois Civil Contractors, Inc. (bidder), will maintain a business office in the State of Illinois which will be located in Tazewell 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)

Michael L. Fehr
(Print Name of Affiant)

This instrument was acknowledged before me on 1st day of April, 2015.

(SEAL)

(Signature of Notary Public)

OFFICIAL SEAL
JAMES B. AUSTIN III
NOTARY PUBLIC STATE OF ILLINOIS
MY COMMISSION EXPIRES 4-29-2018

STATE OF ILLINOIS
CITY OF PEORIA

PEORIA PROPOSAL CONDITIONS

1. The undersigned certifies that it is not delinquent in the payment of any indebtedness, tax, fee or fine owed to the City of Peoria, or in the payment of any tax administered by the Illinois Department of Revenue, and is in compliance with the terms and conditions of Sec. 10-109 of the Peoria City Code and 65 ILCS 5/11-42.1-1.

2. The undersigned firm certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the City of Peoria, 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. The undersigned firm further certifies that it has not been barred from bidding by the Federal, State or local governments and has not been suspended or debarred from receiving federal funding.

3. EMPLOYEE/EMPLOYMENT RESTRICTIONS – **THE CONTRACTOR**, (hereinafter referred to as "SERVICE PROVIDER") agrees, as a condition of accepting this contract with the City of Peoria, that, for a period of one (1) year following completion of this contract, it shall be prohibited from hiring, directly or indirectly, any City employee or official who was involved, directly or indirectly in: (1) the selection and/or recommendation to select the SERVICE PROVIDER for performance of this contract; (2) coordinating the efforts of the SERVICE PROVIDER in the consummation or completion of this contract; or (3) monitoring or determining the performance of the SERVICE PROVIDER. The SERVICE PROVIDER further acknowledges and agrees that, upon the City's determination that a violation of this provision has occurred, the penalty imposed, at the sole discretion of the City, may include one or more of the following: (1) cancellation of any other contract(s) between the City of Peoria and the SERVICE PROVIDER; (2) disqualification of the SERVICE PROVIDER from bidding or being awarded future contracts with the City of Peoria for a period of two [2] years; and/or (3) payment of liquidated damages to the City of Peoria in the amount of TWENTY FIVE THOUSAND DOLLARS ($25,000.00). ***This provision does not apply to any City employee involved in the 2011-12 reduction in force; nor does it apply to parties taking the Early Retirement Incentive offered by the city from November 1, 2011 through November 1, 2012.***

4. Each Bidder must be prequalified with the Illinois Department of Transportation to perform the type of construction work necessary for the project. Bidders shall include a copy of their Illinois Department of Transportation "Certificate of Eligibility" with their bid.

6. EEO CERTIFICATION* (Check one):

_____We are presently applying for the EEO Certification. Employer Report Form (Form CC-1) is completed and enclosed.

__X__Presently, we have the Employer Report Form (Form CC-1) on file with the City of Peoria, Office of Equal Opportunity and have a current Certificate of Compliance Number.

Certificate of Compliance Number: 02533-150331

**Please note there is a $50.00 processing fee for new and renewal certification requests.*

7. Accompanying this proposal is a bid bond, certified check, or cashier's check complying with the requirements of the Specifications, made payable to the City Treasurer of the City of Peoria, Illinois. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the check shall be forfeited to the awarding authority.

The amount of the check or draft is $_____.

If Bid Bond is not used, attach Cashier's Check or Certified Check Here

CITY OF
PEORIA

CITY OF PEORIA
SUBCONTRACTOR UTILIZATION STATEMENT

Section I *(select all that apply)*
__V__ MBE/WBE Subcontractor(s) will be utilized on this project
__V__ Non MBE/WBE Subcontractor(s) will be utilized on this project

Section II
PRIME CONTRACTOR

Name: FCCI

Address: _____

Phone: _____

Contact Person: Mike Fehr

Email: _____

PROJECT

Name: University ST

Total Contract Value: 3,359,336.

Section III

Subcontractor Name	MBE, WBE or Non M/WBE	Amount	% of Total Contract	Scope of Work
Oberlander	Non	536,112.	16%	Electrical
ERM	DBE	62,578	2%	Electric Supply
CJL	WBE	97,434	3%	
Milennia	DBE	200,000	6%	Project Testing / Sewer
Leo Brown	DBE	75,000	2%	Trucking
TOTALS				

**If more than five firms are utilized, please copy the form and attach the additional information.*

Section IV
The City of Peoria is committed to promoting equal opportunity and has established the following subcontractor utilization goals for city funded construction projects: 10% MBE and 5% WBE. Prime Contractors have an obligation to make a good faith effort to advance the city's commitment to increase diversity among the firms working on city construction projects.

This form must be completed and submitted with bid proposals. ALL subcontractors intended for use on this project shall be listed in the columns above; along with the total amount to be paid to the subcontractors; percentage of total contract; and scope of work. If for whatever reason the prime contractor has to utilize a subcontractor not listed above, they must submit a Notification of Change in Participation.

The undersigned certifies that the information included herein is true and correct; the subcontractors listed above have agreed to perform the scope of work described. The undersigned further certifies that it has no controlling, dominating or conflict of interest in any of the listed subcontractors.

Signature of Prime Contractor

4/11/15
Date

For Office Use Only
Reviewed by: _____

Illinois Department of Transportation

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

Affidavit of Availability
For the Letting of _____

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)						
						$ 0.00
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 _____

_____

Section V: Subcontractors Contacted (M/WBE Only)

Subcontractor Name	Method of Contact	Contact Outcome

**If more than seven firms were contacted, please copy the form and attach the additional information.*

Section VI

The City of Peoria is committed to promoting equal opportunity and has established the following subcontractor utilization goals for city funded construction projects: 10% MBE and 5% WBE. Prime Contractors have an obligation to make a good faith effort to advance the city's commitment to increase diversity among the firms working on city construction projects.

This form must be completed and submitted with bid proposals. ALL subcontractors intended for use on this project shall be listed in Section III above; along with the total amount to be paid to the subcontractors; percentage of total contract; and scope of work. If for whatever reason the prime contractor has to utilize a subcontractor not listed above, they must submit a Notification of Change in Participation.

The undersigned certifies that the information included herein is true and correct; the subcontractors listed above have agreed to perform the scope of work described. The undersigned further certifies that it has no controlling, dominating or conflict of interest in any of the listed subcontractors.

_____ _____

Signature of Prime Contractor Date

Org.: May 2008
Revised: Feb. 2011

For Office Use Only
Reviewed by:_____

CITY OF PEORIA

CITY OF PEORIA
M/WBE PARTICIPATION WAIVER REQUEST

PRIME CONTRACTOR

Name: _____

Address: _____

_____

Phone: _____

Contact Person: _____

PROJECT

Name: _____

We hereby request to waive all of the MBE and WBE participation goals on the above named project and self-perform all work for the following reason(s). The firm further affirms that the stated reasons and documents provided are true and correct and not misleading: **(CHECK ALL THAT APPLY. SPECIFIC SUPPORTING DOCUMENTATION MUST BE SUBMITTED WHERE INDICATED.)**

1. No MBEs/WBEs responded to our invitation to bid. _____
2. No subcontracting opportunities exist. (Attach explanation) _____
3. The award of subcontract(s) is impracticable. (Attach explanation) _____

SIGNED: _____ DATE: _____
(Company Official)

FOR OFFICE USE ONLY

☐ **APPROVED** ☐ **DISAPPROVED**

REVIEWED BY _____ **DATE** _____

Illinois Department of Transportation

Local Public Agency
Formal Contract

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

STATE OF ILLINOIS

COUNTY OF Peoria

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

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE NO. FAU 6593

SECTION NO. 12-00361-01-PV

TYPES OF FUNDS MFT

☒ SPECIFICATIONS (required) ☒ PLANS (required) ☒ CONTRACT BOND (when required)

For Municipal Projects
Submitted/Approved/Passed

☐ Mayor ☐ President of Board of Trustees ☐ Municipal Official

Date

Department of Transportation
☐ Concurrence in approval of award

Regional Engineer

Date

For County and Road District Projects
Submitted/Approved

Highway Commissioner

Date

Submitted/Approved

County Engineer/Superintendent of Highways

Date

SECTION II - GENERAL CONDITIONS

PROJECT DESCRIPTION

The proposed improvements will extend the service life of the existing pavement and return its features to a condition of structural and functional adequacy. This will be accomplished by constructing new curb and gutter along each edge of the street and constructing new hot-mix asphalt pavement over the existing pavement. The existing asphalt pavement surface will be removed by "cold-milling" machine methods and four inches of new hot-mix asphalt pavement will be applied on the remaining pavement structure. The existing pavement shall be evaluated for structural integrity after milling and before new HMA is placed. The existing pavement shall be patched as necessary before placement of the HMA binder and surface materials.

New sidewalks and driveways will also be constructed within the street right of way to provide safe routes for pedestrians and access to and from private property. Traffic and pedestrian signal improvements will be required at existing signalized intersections. A new pedestrian signal system is also to be constructed at the intersection with Gift Avenue.

New inlets, manholes, frames, lids, grates and storm sewer are also part of the roadway improvements. A unique aspect of this project's drainage system is the construction of an aggregate French Drain with underdrain pipe to be constructed under identified segments of the proposed curb and gutter. The French Drain will provide multiple benefits including: reduced total runoff volume because of infiltration into soils, reduced runoff rates resulting from detention and restricted release rates, and cleaner runoff resulting from filtration through the aggregate.

GUARANTEE PERIOD

The Contractor warrants all work performed under this contract is free from defects and was performed in accordance with the Contract Documents. Contractor guarantees the materials and workmanship to not fail prematurely or show signs of unusual distress for a period of one (1) year from the date of agreement of final quantities, as agreed in writing, by the City Engineer after all parties have signed the document. In case of acceptance of a part of the work for use prior to the agreement to final quantities, the guarantee for the part so accepted shall be for a period of one (1) year from the date of such partial acceptance, in writing, by the City Engineer.

PUBLIC INFORMATION MEETING

A public information meeting will be held for this project prior to the start of construction. The Contractor shall schedule the meeting and advertise its date, time, and location in all

local newspapers and media outlets in the City of Peoria. The Contractor and the City of Peoria representatives shall conduct the meeting jointly. The Contractor shall have a representative at the meeting to answer questions concerning scheduling, the nature of work to be performed, and any other issues that may arise. The Contractor shall secure the meeting facility and pay for any facility rental fees and provide appropriate liability insurance. In addition to conducting the public information meeting, the Contractor shall also notify all residents and property owners adjacent to the project limits of the meeting. A meeting notice and mailing list will be provided to the Contractor by the City of Peoria. The cost for conducting this meeting and contacting residents and property owners shall not be paid for separately, but shall be considered included with the various traffic control items contained herein.

CITY ENGINEER, RESIDENT ENGINEER, AND DESIGN ENGINEER

As defined in Article 101.16 of the Standard Specifications, the City Engineer of the City of Peoria is the Engineer referenced in the contract documents. The Resident Engineer/Resident Technician shall be identified by the Engineer at the initial project meeting. The City of Peoria may also retain a consulting engineer to provide services on behalf of the Engineer during construction of the improvements. These persons and their responsibilities will be identified at the initial project meeting. The City of Peoria hired a consulting engineer to evaluate the existing street conditions and design the proposed improvements. The plan drawings and specifications were prepared under the direction of the Professional Engineer whose seal is on the plan cover sheet. That person is the Design Engineer. Questions about the designer's intent shall be directed to the Design Engineer. The Design Engineer shall also be consulted regarding modifications to these plans that alter the designer's intent.

PROPERTY OWNER CONSIDERATIONS

Before construction begins, the Contractor shall contact all persons occupying homes to be affected by the project to determine if any special access considerations are required due to the occupant's health or disability. The Contractor shall notify owners in writing no less than 3 calendar days before removing any part of existing alleys or driveways. The contractor shall also allow for weekly pick-up of garbage from properties. Construction of curb and gutter and driveways shall be completed as soon as possible once driveway pavement is removed. Aggregate for Temporary Access shall be used as necessary to provide access to properties once driveway pavement has been removed in order to minimize the occupant's inconvenience.

Whenever excavation is made within a temporary or permanent construction easement, on private property for driveways, sidewalks, steps, retaining walls, utility connections, tree plantings or other construction, the topsoil disturbed by the excavation operations shall be restored as nearly as possible to its original position and the whole area involved

in the construction operation shall be left in a neat and presentable condition. The excavated topsoil shall not be contaminated with construction debris and aggregates. The stockpiled topsoil shall be spread on the disturbed areas before grass sod is placed.

The Contractor shall use reasonable care to avoid disturbing portions of private property not necessary to the construction operations. If, in the judgment of the Engineer, areas are disturbed unnecessarily, the Contractor shall restore these areas at his own expense. The Contractor shall not pile excavated material outside the limits of the R.O.W. upon adjacent private property without the written consent of the property owner and the Engineer.

STATUS OF UTILITIES

Utility companies were notified of the project improvements during the process of preparing construction drawings. The utility companies were requested to provide drawings and information about the size and location of their respective facilities for inclusion on the construction plan drawings. Utility companies have also been provided the set of construction drawings distributed for bidding purposes and informed that they must determine if their respective facilities will be in conflict with the proposed improvements and if so, take steps to relocate the conflicting facilities.

The City of Peoria assumes no responsibility for the presence, specific size or location of underground distribution systems of the several public utility corporations. No responsibility for the protection of said underground systems will be assumed by the City of Peoria unless such protection is incidental to the protection of the municipally-owned property of the City of Peoria. If such protection is found to be necessary to water mains, gas mains, steam mains, underground electrical distribution systems, underground telephone circuit systems or any other underground systems of non-municipal ownership, the cost of same, in whole or in part, is disclaimed by the City of Peoria.

The construction plans include a list of facilities known to the Engineer to be in conflict with the proposed improvements. The list was developed based on the limited information available to the Design Engineer when plans were prepared. The Contractor shall take all steps necessary to identify the presence and location of existing utilities, protect those utilities from damage, and coordinate the relocation and adjustment of utilities as required to construct the proposed improvements.

SIGNS WITHIN THE RIGHT OF WAY

The contractor shall relocate or remove and reinstall all street, traffic, parking, directional, regulatory and warning signs within the limits of the improvement. All signs which interfere with construction operations shall be removed, stored in a place

away from work, and replaced by the contractor after the improvement has been completed if they are not required for traffic control. Signs which are required for traffic control shall be reinstalled at a temporary location acceptable to the Engineer, in a workmanlike manner, visible to traffic, and maintained straight and neat for the duration of the temporary setting. Signs shall not be moved until progress of the work demands the relocation. The cost of this item shall be included in the contract unit price bid for the item of work which necessitated the removal.

RESPONSIBILITY FOR DAMAGE CLAIMS

The Contractor shall indemnify and save harmless the CITY OF PEORIA, its officers, employees and consultants against all loss, damage or expense that it or they may sustain as a result of any suits, actions, or claims of any character brought on account of injury to or death of any person or persons, including all persons performing any work under this contract, which may arise in any way (except for a negligent act of the City of Peoria, its officers, employees or consultants) in connection with the work to be performed under this contract, including but not limited to, suits, actions or claims arising under "An Act providing for the protection and safety of persons in and about the construction, repairing, alteration or removal of building, bridges, viaducts, and other structures, and to provide for the enforcement thereof," approved June 3, 1907, (740 ILCS 150/1), as amended: the Contractor shall also indemnify and save harmless the CITY OF PEORIA, its officers, employees and consultants from all suits, actions, or claims of any character brought because of any injuries or damages received or sustained by any person, persons, or property, on account of, or in consequence of, any neglect by Contractor or a Subcontractor in safeguarding the work; or through use of unacceptable materials in constructing the work; or because of any act or omission, neglect, or misconduct of said Contractor; or because of any claims or amounts recovered for any infringements of patent, trademark, or copyright, or from any claims or amounts arising or recovered under the "Workers Compensation Act," or any other law, ordinance, order, or decree, and so much of the money due the said Contractor under and by virtue of his contract as shall be considered necessary by the Department for such purposes, may be retained for the use of the ENGINEERING DIVISION; or, in case no money is due, his surety shall be held until such suits, actions, or claims have been settled and suitable evidence to that effect furnished to the Department.

PHASING OF PROJECT

The Contractor is completely responsible for scheduling and coordinating all work within the project limits. All utility relocations and adjustments must be coordinated by the Contractor in order to not cause undue delays in completing the work.
Removal and replacement of driveways shall be completed in an expeditious manner in order to minimize inconvenience to property owners. The plans include temporary

traffic signal facilities to be installed in conjunction with the reconstruction of the intersection with Forrest Hill Avenue.

CONTRACTOR'S INSURANCE

The Contractor shall not commence work under this project until he has obtained all insurance required under this paragraph and such insurance has been approved by the City of Peoria, nor shall the Contractor allow any Subcontractor to commence work on his subcontract until all similar insurance required of the Subcontractor has been so obtained and approved by the City of Peoria.

The Contractor shall require Subcontractors, if any, not protected under the Contractor's insurance policies as an additional insured to take out and maintain insurance of such nature in amounts not less than that required of the principal Contractor, excluding Umbrella Coverage and Owner's Protective Liability and Property Damage Insurance, and any and all insurance obtained by any Subcontractor or Subcontractors shall be approved by the City of Peoria.

All policies shall contain provisions to the effect that in the event of payment of any loss or damage the insurers will have no rights of recovery against any of the insureds or additional insured thereunder.

Worker's Compensation Insurance

The Contractor shall take out and maintain during the life of this project Worker's Compensation Insurance for all of his employees employed at the site of the project and, in case any work is sublet, the Contractor shall require the Subcontractor similarly to provide Worker's Compensation Insurance for all of the latter's employees unless such employees are covered by the protection afforded by the Contractor, and any such insurance obtained by any subcontractor or subcontractors shall be approved by the City of Peoria. In case any class of employees engaged in hazardous work at the site of the project is not protected under the Worker's Compensation statute, the Contractor shall provide, and shall cause each Subcontractor to provide adequate insurance coverage for the protection of his employees not otherwise protected, such as accident insurance, and any such insurance shall be approved by the City of Peoria.

Public Liability and Property Damage Insurance

The Contractor shall take out and maintain during the life of the project such General Liability, Public Liability and Property Damage Insurance as shall protect him and any Subcontractor performing work covered by this project, from claims for damages for personal injury, including accidental death, as well as from claims for property damages, which may arise from operations under this project, whether such operations be by

himself or by any Subcontractors or by anyone directly or indirectly employed by either of them and the amounts of such insurance shall be as follows:

Commercial General Liability Insurance that provides Property Damage and/or Bodily Injury in an amount not less than $1,000,000 per occurrence and $2,000,000 aggregate.

Owner's Protective Liability and Property Damage Insurance

The Contractor shall obtain Owner's Protective Liability and Property Damage Insurance in an amount not less than $1,000,000 per occurrence and $2,000,000 aggregate. If endorsements to the above public liability and property damage insurance policies cannot be made, then separate policies providing such protection must be furnished by the Contractor.

Automobile Insurance

The Contractor shall take out and maintain during the life of the project such automobile insurance covering all owned and non-owned vehicles as shall project him an any Subcontractor performing work covered by this project, from claims for damages in an amount not less than $1,000,000 Combined Bodily Injury and Property Damage.

Umbrella Coverage

The Contractor shall take out and maintain during the life of the project such Umbrella or Excess Liability coverage as shall protect him and any Subcontractor performing work covered by this project, from claims for damages in an amount not less than $2,000,000 per occurrence and $5,000,000 annual aggregate.

Additional Insured Endorsement

All Liability insurance policies shall name Illinois American Water Company and the City of Peoria its officers, directors, employees, agents, representatives, subsidiaries, successors, and assigns, as additional insured, shall be primary to any other insurance carried by the Additional Insured and shall provide coverage consistent with ISO CG 20 26, and shall maintain the required coverage, naming Illinois American and the City of Peoria as an additional insured, for a period of not less than three years from the date the City of Peoria and Contractor execute an Agreement to Final Quantities.

PROOF OF CARRIAGE OF INSURANCE

The Contractor and all Subcontractors shall furnish the City of Peoria with satisfactory proof of insurance coverage before the project begins. If coverage is cancelled or the carrier's rating falls below A.M. Best "A" rated, the City of Peoria shall be notified in writing.

Certificates of insurance are required. The Certificate must state the following "The City of Peoria, its officers, directors, employees, agents, and representatives, are named

as Additional Insured on a primary basis for liability arising out of the contractor's operations."

The Contractor must provide copies of the policies and endorsements. Failure to provide the required certificates of insurance shall not operate to invalidate the insurance requirements under this Contract.

SUBSTANCE ABUSE PREVENTION PROGRAM

Before the contractor and any Subcontractor commences work, the Contractor and any Subcontractor shall have in place a written Substance Abuse Prevention Program for the prevention of substance abuse among its employees which meets or exceeds the requirements in P.A. 95-0635 or shall have a collective bargaining agreement in effect dealing with the subject matter of P.A. 95-0635.

The Contractor and any Subcontractor shall file with a public body: a copy of the substance abuse prevention program along with a cover letter certifying that their program meets the requirements of the Act, or a letter certifying that the Contractor or a Subcontractor has a collective bargaining agreement in effect dealing with the subject matter of this Act.

CERTIFIED PAYROLL REQUIREMENTS

Contractors and subcontractors on public works projects must submit certified payroll records on a monthly basis to the public body in charge of the construction project, along with a statement affirming that such records are true and accurate, that the wages paid to each worker are not less than the required prevailing rate, and that the contractor is aware that filing records he or she knows to be false is a Class B Misdemeanor. The Certified Payroll Records must include, for every worker employed on the public works project, the name, address, telephone number, social security number, job classification, hourly wages paid in each pay period, number of hours worked each day, and starting and ending time of work each day.

PREVAILING WAGE PROVISION

This contract is for the performance of "public works" as that term is defined by 820 ILCS 130/2. Not less than the prevailing rate of wages as found by the Illinois Department of Labor or determined by a Court on review shall be paid to all laborers, workers and mechanics performing work under this contract. These prevailing rates of wages are included in this contract.

If the Department of Labor revises the prevailing rate of hourly wages to be paid by the public body, the revised rate as provided by the public body shall apply to this contract.

Peoria County Prevailing Wage for March 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		BLD		26.470	27.970	1.5	1.5	2.0	7.700	15.07	0.000	0.800
ASBESTOS ABT-GEN		HWY		29.580	31.080	1.5	1.5	2.0	7.700	16.19	0.000	0.800
ASBESTOS ABT-MEC		BLD		32.140	34.640	1.5	1.5	2.0	11.17	10.76	0.000	0.720
BOILERMAKER		BLD		36.750	39.750	2.0	2.0	2.0	7.070	15.84	0.000	0.350
BRICK MASON		BLD		32.360	33.860	1.5	1.5	2.0	8.600	9.870	0.000	0.590
CARPENTER		BLD		30.360	32.630	1.5	1.5	2.0	8.000	14.71	0.000	0.620
CARPENTER		HWY		31.650	33.900	1.5	1.5	2.0	8.000	15.46	0.000	0.620
CEMENT MASON		BLD		28.050	29.800	1.5	1.5	2.0	7.500	15.65	0.000	0.500
CEMENT MASON		HWY		29.250	30.750	1.5	1.5	2.0	7.500	16.02	0.000	0.500
CERAMIC TILE FNSHER		BLD		29.890	0.000	1.5	1.5	2.0	8.600	10.05	0.000	0.580
ELECTRIC PWR EQMT OP		ALL		39.300	45.290	1.5	1.5	2.0	6.150	10.73	0.000	0.350
ELECTRIC PWR GRNDMAN		ALL		36.280	45.290	1.5	1.5	2.0	5.790	7.360	0.000	0.260
ELECTRIC PWR LINEMAN		ALL		42.540	45.290	1.5	1.5	2.0	6.280	11.92	0.000	0.430
ELECTRIC PWR TRK DRV		ALL		27.560	48.290	1.5	1.5	2.0	5.630	7.720	0.000	0.280
ELECTRICIAN		ALL		34.820	37.320	1.5	1.5	2.0	6.500	11.68	0.000	0.800
ELECTRICIAN		BLD		34.820	37.320	1.5	1.5	2.0	6.100	11.43	0.000	0.400
ELECTRONIC SYS TECH		BLD		28.250	30.250	1.5	1.5	2.0	6.100	10.54	0.000	0.400
ELEVATOR CONSTRUCTOR		BLD		41.690	46.900	2.0	2.0	2.0	13.57	14.21	3.340	0.600
GLAZIER		BLD		31.670	33.870	1.5	1.5	1.5	10.25	7.700	0.000	1.250
HT/FROST INSULATOR		BLD		43.350	45.850	1.5	1.5	2.0	11.47	12.36	0.000	0.720
IRON WORKER		BLD		31.810	33.710	1.5	1.5	2.0	9.390	12.91	0.000	0.540
IRON WORKER		HWY		35.240	37.340	1.5	1.5	2.0	9.390	12.91	0.000	0.540
LABORER		BLD		25.470	26.970	1.5	1.5	2.0	7.700	15.07	0.000	0.800
LABORER		HWY		28.580	30.230	1.5	1.5	2.0	7.700	16.19	0.000	0.800
LABORER, SKILLED		BLD		25.670	27.370	1.5	1.5	2.0	7.700	15.07	0.000	0.800
LABORER, SKILLED		HWY		29.130	30.630	1.5	1.5	2.0	7.700	16.19	0.000	0.800
LATHER		BLD		30.360	32.630	1.5	1.5	2.0	8.000	14.71	0.000	0.620
MACHINERY MOVER		HWY		35.240	37.340	1.5	1.5	2.0	9.390	12.91	0.000	0.540
MACHINIST		BLD		44.350	46.850	1.5	1.5	2.0	6.760	8.950	1.850	0.000
MARBLE FINISHERS		BLD		29.890	0.000	1.5	1.5	2.0	8.600	10.05	0.000	0.580
MARBLE MASON		BLD		31.650	32.900	1.5	1.5	2.0	8.600	10.05	0.000	0.580
MILLWRIGHT		BLD		30.800	32.050	1.5	1.5	2.0	8.000	14.62	0.000	0.620
MILLWRIGHT		HWY		32.220	34.470	1.5	1.5	2.0	8.000	15.35	0.000	0.620
OPERATING ENGINEER		BLD	1	37.050	40.050	1.5	1.5	2.0	7.000	17.48	0.000	3.000
OPERATING ENGINEER		BLD	2	34.450	40.050	1.5	1.5	2.0	7.000	17.48	0.000	3.000
OPERATING ENGINEER		BLD	3	30.160	40.050	1.5	1.5	2.0	7.000	17.48	0.000	3.000
OPERATING ENGINEER		HWY	1	37.000	40.000	1.5	1.5	2.0	7.000	17.48	0.000	3.000
OPERATING ENGINEER		HWY	2	34.400	40.000	1.5	1.5	2.0	7.000	17.48	0.000	3.000
OPERATING ENGINEER		HWY	3	30.110	40.000	1.5	1.5	2.0	7.000	17.48	0.000	3.000
PAINTER		ALL		33.650	35.650	1.5	1.5	1.5	10.30	8.200	0.000	1.350
PAINTER SIGNS		BLD		32.920	33.090	1.5	1.5	1.5	2.600	2.710	0.000	0.000
PILEDRIVER		BLD		31.350	33.630	1.5	1.5	2.0	8.000	14.71	0.000	0.620
PILEDRIVER		HWY		32.650	34.900	1.5	1.5	2.0	8.000	15.46	0.000	0.620
PIPEFITTER		BLD		37.400	41.510	1.5	1.5	2.0	7.000	11.62	0.000	1.060
PLASTERER		BLD		28.140	29.770	1.5	1.5	2.0	7.500	15.00	0.000	0.870
PLUMBER		BLD		34.620	37.630	1.5	1.5	2.0	7.000	13.31	0.000	0.900
ROOFER		BLD		30.560	32.110	1.5	1.5	2.0	8.450	7.220	0.000	0.250
SHEETMETAL WORKER		BLD		32.150	33.760	1.5	1.5	2.0	9.620	14.18	0.000	0.780
SIGN HANGER		HWY		35.240	37.340	1.5	1.5	2.0	9.390	12.91	0.000	0.540
SPRINKLER FITTER		BLD		37.120	38.870	1.5	1.5	2.0	8.420	8.500	0.000	0.350
STEEL ERECTOR		HWY		35.240	37.340	1.5	1.5	2.0	9.390	12.91	0.000	0.540
STONE MASON		BLD		32.360	33.860	1.5	1.5	2.0	8.600	9.870	0.000	0.590
~~SURVEY WORKER~~	~~NOT IN EFFECT~~				ALL		28.900	30.400	1.5	1.5	2.0	7.700	14.86	0.000	0.800
TERRAZZO FINISHER		BLD		29.890	0.000	1.5	1.5	2.0	8.600	10.05	0.000	0.580
TERRAZZO MASON		BLD		31.650	32.900	1.5	1.5	2.0	8.600	10.05	0.000	0.580
TILE MASON		BLD		31.650	32.900	1.5	1.5	2.0	8.600	10.05	0.000	0.580
TRUCK DRIVER		ALL	1	33.000	36.550	1.5	1.5	2.0	11.13	5.230	0.000	0.250
TRUCK DRIVER		ALL	2	33.480	36.550	1.5	1.5	2.0	11.13	5.230	0.000	0.250
TRUCK DRIVER		ALL	3	33.700	36.550	1.5	1.5	2.0	11.13	5.230	0.000	0.250
TRUCK DRIVER		ALL	4	34.010	36.550	1.5	1.5	2.0	11.13	5.230	0.000	0.250
TRUCK DRIVER		ALL	5	34.900	36.550	1.5	1.5	2.0	11.13	5.230	0.000	0.250
TRUCK DRIVER		C&C	1	26.430	29.240	1.5	1.5	2.0	11.13	5.230	0.000	0.250

TRUCK DRIVER	O&C	2	26.780	29.240	1.5	1.5	2.0	11.10	5.230	0.000	0.250
TRUCK DRIVER	O&C	3	26.960	29.240	1.5	1.5	2.0	11.10	5.230	0.000	0.250
TRUCK DRIVER	O&C	4	27.210	29.240	1.5	1.5	2.0	11.10	5.230	0.000	0.250
TRUCK DRIVER	O&C	5	27.920	29.240	1.5	1.5	2.0	11.10	5.230	0.000	0.250
TUCKPOINTER	BLD		32.360	33.880	1.5	1.5	2.0	8.600	5.870	0.000	0.590

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

Explanations

PEORIA 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.

Oil and chip resealing (O&C) means the application of road oils and liquid asphalt to coat an existing road surface, followed by application of aggregate chips or gravel to coated surface, and subsequent rolling of material to seal the surface.

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, MARBLE FINISHER, TERRAZZO FINISHER

Assisting, helping or supporting the tile, marble and terrazzo mechanic by performing their historic and traditional work assignments required to complete the proper installation of the work covered by said crafts. The term "Ceramic" is used for naming the classification only and is in no way a limitation of the product handled. Ceramic takes into consideration most hard tiles.

ELECTRONIC SYSTEMS TECHNICIAN

Installation, service and maintenance of low-voltage systems which utilizes the transmission and/or transference of voice, sound, vision, or digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, background/foreground music, intercom and telephone interconnect, field programming, inventory control systems, microwave transmission, multi-media, multiplex, radio page, school, intercom and sound burglar alarms and low voltage master clock systems.

Excluded from this classification are energy management systems, life safety systems, supervisory controls and data acquisition systems not intrinsic with the above listed systems, fire alarm systems, nurse call systems and raceways exceeding fifteen feet in length.

LABORER, SKILLED - BUILDING

The skilled laborer building (BLD) classification shall encompass the following types of work, irrespective of the site of the work: cutting & acetylene torch, gunnite nozzlemen, gunnite pump men & pots,

kettlemen & carriers of men handling hot stuff, sandblaster nozzle men, sandblasting pump men & pots, setting up and using concrete burning bars, wood block setters, underpinning & shoring of existing buildings, and the unloading and handling of all material coated with creosote.

LABORER, SKILLED - HIGHWAY

The skilled laborer heavy & highway (HWY) classification shall encompass the following types of work,irrespective of the site of the work: jackhammer & drill operator, gunite pump & pot man, puddlers, vibrator men, wire fabric placer, sandblast pump & pot man, strike off concrete, unloading, handling & carrying of all creosoted piles, ties or timber, concrete burning bars, power wheelbarrows or buggies, asphalt rakers, brickset-ters, cutting torchman (electric & acetylene), men setting lines to level forms, form setters, gunite nozzle man & sandblasting nozzle man, power man, and rip-rapping by hand.

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

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION
Class 1. Drivers on 2 axle trucks hauling less than 9 ton. Air compressor and welding machines and brooms, including those pulled by separate units, truck driver helpers, warehouse employees, mechanic helpers, greasers and tiremen, pickup trucks when hauling materials, tools, or workers to and from and on-the-job site, and fork lifts up to 6,000 lb. capacity.

Class 2. Two or three axle trucks hauling more than 9 ton but hauling less than 16 ton. A-frame winch trucks, hydrolift trucks, water trucks or similar equipment when used for transportation purposes. Fork lifts over 6,000 lb. capacity, winch trucks, four axle combination units, and ticket writers.

Class 3. Two, three or four axle trucks hauling 16 ton or more. Drivers on water pulls, articulated dump trucks, mechanics and working foreperson, and dispatchers. Five axle or more combination units.

Class 4. Low Boy and Oil Distributors.

Class 5. Drivers who require special protective clothing while employed on hazardous waste work.

TRUCK DRIVER - OIL AND CHIP SPREADING ONLY.

This shall encompass laborers, workers and mechanics who drive contractor or subcontractor owned, leased, or hired pickup, dump, service, or oil distributor trucks. The work includes transporting materials and equipment (including but not limited to, oils, aggregate supplies, parts, machinery and tools) to or from the job site; distributing oil or liquid asphalt and aggregate; stock piling material when in connection with the actual oil and chip contract. The Truck Driver (Oil & Chip Spreading) wage classification does not include supplier delivered materials.

OPERATING ENGINEERS - BUILDING

Class 1. Cranes; Overhead Cranes; Gradall; All Cherry Pickers; Mechanics; Central Concrete Mixing Plant Operator; Road Pavers (27# - Dual Drum - Tri Batchers); Blacktop Plant Operators and Plant Engineers; 3 Drum Hoist; Derricks; Hydro Cranes; Shovels; Skimmer Scoops; Combing Scooper; Drag Lines; Backhoe; Derrick Boats; Pile Drivers and Skid Rigs; Clamshells; Locomotive Cranes; Dredge (all types) Motor Patrol; Power Blades - Dumors - Elevating and similar types; Tower Cranes (Crawler-Mobile) and Stationary; Crane-type Backfiller; Drott Tumbo and similar types considered as Cranes; Caisson Rigs; Dozer; Tournadozer; Work Boats; Mono Carrier; Helicopter; Tournapulls - all and similar types; Scoops (all sizes); Pushcats; Endloaders (all types); Asphalt Surfacing Machine; Slip Form Paver; Rock Crusher; Heavy Equipment Greaser; CMI, CMI Belt Placer, Auto Grade & 3 Track and similar types; Side Booms; Multiple Unit Earth Movers; Cretex Crane; Trench Machine; Pump-crete-Belt Crete-Squeeze Cretex-Screw-type Pumps and Gypsum; Bulker & Pump - Operator will clean; Foreless Finishing Machine; Flaherty Spreader or similar types; Screed Man on Laydown Machine; Wheel Tractors (industrial or Farm-type w/Dozer-Mow-Endloader or other attachments); F.M.H. & Similar Types; Vermeer Concrete Saw.

Class 2. Dinkeys; Power Launches; PH One-pass Soil Cement Machine (and similar types); Pugmill with Pump; Backfillers; Forklift Loader; Forklifts; Jumps w/Ditching Machine or other attachments; Tuneloger; Automatic Cement and Gravel Batching Plants; Mobile Drills (Soil Testing) and similar types; Curries and Similar Types; (1) and (2)

Drum Hoists (Rock Hoist and Similar Types); Chicago Boom; Boring Machine & Pipe Jacking Machine; Hydro Boom; Dewatering System; Straw Blower; Hydro Seeder; Assistant Heavy Equipment Greaser on Spread; Tractors (Track type) without Power Unit pulling Rollers; Rollers on Asphalt -- Brick Macadam; Concrete Breakers; Concrete Spreaders; Mule Pulling Rollers; Center Stripper; Cement Finishing Machines & CMI Texture & Reel Curing Machines; Cement Finishing Machine; Barber Green or similar loaders; Vibro Tamper (All similar types) Self-propelled; Winch or Boom Truck; Mechanical Bull Floats; Mixers over 3 Bag to 27S; Tractor pulling Power Blade or Elevating Grader; Porter Max Rail; Clary Screed; Truck Type Neptune Oilers; Firemen; Spray Machine on Paving; Curb Machines; Track Crane Oilers; Oil Distributor; Truck-Mounted Saws.

Class 3. Air Compressor; Power Subgrader; Straight Tractor; Trac Air without attachments; Herman Nelson Heater, Bravo, Warner, Silent Glo, and similar types; Roller: Five (5) Ton and under on Earth or Gravel; Farm Grader; Crawler Crane & Skid Rig Oilers; Freight Elevators - permanently installed; Pump; Light Plant; Generator; Conveyor (1) or (2) - Operator will clean; Welding Machine; Mixer (3) Bag and Under (Standard Capacity with skip); Bulk Cement Plant; Oiler on Central Concrete Mixing Plant.

OPERATING ENGINEERS - HEAVY AND HIGHWAY CONSTRUCTION

CLASS 1. Cranes; Hydro Cranes; Shovels; Crane Type Backfiller; Tower, Mobile, Crawler, & Stationary Cranes; Derricks; Hoists (3 Drum); Draglines; Scott Tumbo & Similar Types considered as Cranes; 360 Degree Swing Excavator (Shears, Grapples, Movers, etc.); Back Hoe; Derrick Boats; Pile Driver and Skid Rig; Clam Shell; Locomotive - Cranes; Road Pavers - Single Drum - Dual Drum - Tool Hatcher; Motor Patrols & Power Blades - Dozers - Elevating & Similar Types; Mechanics; Central Concrete Mixing Plant Operator; Asphalt Batch Plant Operators and Plant Engineers; Gradall; Caisson Rigs; Skimmer Scoop - Rowing Scooper; Dredges (all types); Neptune; All Cherry Pickers; Work Boat; Rema Carrier; Helicopter; Dozer; Tournadozer; Tournapulls - all and similar types; Operation of Concrete and all Recycle Machines; Multiple Unit Earth Movers; Scoops (all sizes); Pushcats; Endloaders (all types); Asphalt Surfacing Machine; Slip Form Paver; Rock Crusher; Operation of Material Crusher, Screening Plants, and Tunnel Boring Machine; Heavy Equipment Greaser (top greaser on spread); CMI, Auto Grade, CMI Belt Placer & 3 Track and Similar Types; Side Booms; Asphalt Heater & Planer Combination (used to plane streets); Wheel Tractors (with Dozer, Mow or Endloader Attachments); CAT Earthwork Compactors and Similar Types; Blaw Knox Spreader and Similar Types; Trench Machines; Pump Crete - Salt Crete - Squeeze Crete - Screw Type Pumps and Gypsum (operator will clean); Crater Crane; Operation of Concrete Pump Truck; Formless Finishing Machines; Flaherty Spreader or Similar Types; Screed Man on Laydown Machine; Vermeer Concrete Saw; Operation of Laser Screed; Span Saw; Dredge Leverman; Dredge Engineer; Lull or Similar Type; Hydro-Boom Truck; Operation of Guard Rail Machine, and Starting Engineer on Pipeline or Construction (11 or more pieces) including: Air Compressor (Trailer Mounted), All Forced Air Heaters (regardless of Size), Water Pumps (Greater than 4-1/2" or Total Discharge Over 4-1/2"), Light Plants, Generators (Trailer Mounted - Excluding Decontamination Trailer), Welding Machines (Any Size or Mode of Power), Conveyor, Mixer (any size), Stud Welder, Power Pac, etc, and Ground Heater (Trailer Mounted).

CLASS 2. Bullex & Pump; Power Launcher; Boring Machine & Pipe Jacking Machine; Dinkeys; Operation of Carts, Powered Haul Unit for a Boring Machine; P & H Cmx Pass Soil Cement Machines and Similar Types; Wheel Tractors (Industry or Farm Type - Other); Back Fillers; Euclid Loader; Fork Lifts; Jeep w/Ditching Machine or Other Attachments; Tunnelmen; Automatic Cement & Gravel Batching Plants; Mobile Drills - Soil Testing and Similar Types; Pugmill with Pump; All (1) and (2) Drum Hoists; Dewatering System; Straw Blower; Hydro-Seeder; Pump Grinders (self-propelled); Assistant Heavy Equipment Greaser; Apsco Spreader; Tractors (Track-Type) without Power Unit Pulling Rollers; Rollers on Asphalt - Brick or Macadam; Concrete Breakers; Concrete Spreaders; Cement Strippers; Cement Finishing Machines & CMI Texture & Reel Curing Machines; Vibro-Tampers (All Similar Types Self-Propelled); Mechanical Bull Floats; Self-Propelled Concrete Saws; Truck Mounted Power Saws; Operation of Curb Cutters; Mixers - Over Three (3) Bags; Winch and Boom Trucks; Tractor Pulling Power Blade or Elevating Grader; Porter Max Rail; Clary Screed; Mule Pulling Rollers; Pugmill without Pump; Barber Greene or Similar Loaders; Track Type Tractor w/Power Unit attached (minimum); Firemen; Spray Machine on Paving; Curb Machines; Paved Ditch Machine; Power Brush; Self-Propelled Sweepers; Self-Propelled Conveyors; Power Subgrader; Oil Distributor; Straight Tractor; Truck Crane Oiler; Truck Type Oilers; Directional Boring Machine: Horizontal Directional Drill; Articulating End Dump Vehicles; Starting Engineer on Pipeline or Construction (6 -10 pieces) including: Air Compressor (Trailer Mounted), All Forced Air

Heaters (regardless of Size), Water Pumps (Greater than 4-1/2" or Total Discharge Over 4-1/2"), Light Plants, Generators (Trailer Mounted - Excluding Decontamination Trailer), Welding Machines (Any Size or Mode of Power), Conveyor, Mixer (any size), Stud Welder, Power Pac, etc., and Ground Heater (Trailer Mounted).

CLASS 3. Straight Framed Truck Mounted Van Unit (separately powered); Trac Air Machine (Without attachments); Rollers - Five Ton and Under on Earth and Gravel; Form Graders; Bulk Cement Plant; Oilers; and Starting Engineer on Pipeline or Construction (1 - 5 pieces) including: Air Compressor (Trailer Mounted), All Formed Air Heaters (regardless of Size), Water Pumps (Greater than 4-1/2" or Total Discharge Over 4-1/2"), Light Plants, Generators (Trailer Mounted - Excluding Decontamination Trailer), Welding Machines (Any Size or Mode of Power), Conveyor, Mixer (any size), Stud Welder, Power Pac, etc., and Ground Heater (Trailer Mounted).

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.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

This project shall be completed in compliance with the "National Pollutant Discharge Elimination System Permit" (NPDES) requirements. The project is covered by the implementing agency's MS4 permit number ILR40 0424. The Contractor will be required to comply with all terms of the permit. As a part of the requirements the Contractor will be required to complete the "Contractor Certification Statement", on the attached BDE 2342 form and submit it to the Engineer at the pre-construction conference.

Illinois Department of Transportation

Storm Water Pollution Prevention Plan

Route	FAU 6593	Marked Rte.	
Section	12-00361-01-PV	Project No.	
County	Peoria	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.

Eric J. Hansen
Print Name

Sr. Project Manager
Title

Crawford, Murphy & Tilly, Inc.
Agency

Signature

February 26, 2015
Date

I. Site Description:

A. Provide a description of the project location (include latitude and longitude):

University Street from Nebraska Avenue (Lat. 40.71055, Long. -89.61312) to Forrest Hill Avenue (lat. 40.72582, Long. -89.61277)

B. Provide a description of the construction activity which is the subject of this plan:

Resurfacing of the existing pavement, new curb and gutter, new sidewalk, traffic signal upgrades, and storm drainage system improvements that incude infiltration systems.

C. Provide the estimated duration of this project:

8 months

D. The total area of the construction site is estimated to be 11 acres.

The total area of the site estimated to be disturbed by excavation, grading or other activities is 5 acres.

E. The following is a weighted average of the runoff coefficient for this project after construction activities are completed:

0.90

F. List all soils found within project boundaries. Include map unit name, slope information, and erosivity:

Rozetta silt loam, 2% to 5%, T=5 t/ac-yr

G. Provide an aerial extent of wetland acreage at the site:

Wetlands are not present

H. Provide a description of potentially erosive areas associated with this project:

The site is relatively level and completely developed as residential properties with some commercial sites. The site does not include streams or erosive banks.

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):

The construction site is an existing street right of way. Slopes are not more than 2%. Bare soils are subject to wind and water erosion forces.

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:

City of Peoria owns the storm sewer system which outlets into Dry Run Creek.

L. The following is a list of General NPDES ILR40 permittees within whose reporting jurisdiction this project is located.

City of Peoria

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:

Dry Run Creek

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.

No sensitive areas exist within the construction site.

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:

   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:

c. Provide a description of the location(s) of direct discharge from the project site to the 303(d) water body:

d. Provide a description of the location(s) of any dewatering discharges to the MS4 and/or water body:

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:

Construction limits will be limited to only that area necessary to build the sidewalk and driveways. Trees and vegetation are to be protected and sod will be placed at the appropriate time to minimize the amount of time bare soil is exposed to erosion.

Describe how the stabilization practices listed above will be utilized after construction activities have been completed:

All disturbed areas will be stabilized with sod.

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) French Drain with underdrain
- ☐ Other (specify)
- ☐ Other (specify)
- ☐ Other (specify)
- ☐ Other (specify)

Describe how the structural practices listed above will be utilized during construction:

Runoff from the project site is only by inlets and storm sewers. Practices will be used that prevent eroded soils from entering storm sewers.

Describe how the structural practices listed above will be utilized after construction activities have been completed:

The catch basins, french drain and underdrain system will transfer runoff from the street into the aggregate trench. The aggregate trench will remove pollutants from the runoff and allow runoff to infiltrate into sub-soils.

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:

   The catch basins, french drain and underdrain system will transfer runoff from the street into the aggregate trench. The aggregate trench will remove pollutants from the runoff and allow runoff to infiltrate into sub-soils. The total volume of runoff and runoff rate will be reduced and the runoff will be cleaner after the construction is completed.

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:

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 (chemical, 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

Additional Inspections Required:

The proposed French Drain aggregate materials shall be protected from soil contamination. The aggregate shall not be left in an open trench exposed to eroded soils. The Engineer and Contractor shall take extra precautions to protect the French Drain aggregate from contamination. The Engineer's on-site representative shall observe the construction of the French Drain and maintain field reports of this work. Any French Drain aggregates contaminated with soils shall be removed and replaced with clean aggregate.

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	FAU 6593	Marked Rte.	
Section	12-00361-01-PV	Project No.	
County	Peoria	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:

SECTION III

EEO CONTRACT COMPLIANCE CLAUSE

It is hereby declared to be the public policy of the City of Peoria, that it will not execute a contract for goods and/or services with any individual, business enterprise, supplier/vendor; maintain a financial relationship with any financial institution; or use the services of any labor organization or member thereof found to be in violation of the provisions of the Municipal Code for the City of Peoria, Chapter 17, Article III, Division 4, Section 17-118.

This clause covers contractors, vendors, suppliers, borrowers and/or recipients of city resources, purchasers and/or developers of city owned property, and any other individuals or entities providing goods and/or services to the City of Peoria; and are hereinafter referred to as "Contractor."

If any Contractor conducting business with the City of Peoria fails to comply with the fair employment and affirmative action provisions of Chapter 17, Article III, Division 4 of the municipal code (hereinafter Chapter 17), the city, at its option, may do any or all of the following:

(1) Cancel, terminate, or suspend the contract in whole or in part;

(2) Declare the contractor ineligible for further contracts for one calendar year;

(3) The Fair Employment and Housing Commission (hereinafter FEHC), in accordance with its rules and regulations, shall have the power to impose a penalty upon any Contractor failing to comply with Chapter 17 in an amount not less than $50.00; nor more than as provided in Chapter 1, Section 1-5 of the municipal code, for each day that the Contractor fails to comply, upon a specific finding of such violation. The FEHC may order a Contractor found guilty of failure to comply with the provisions of Chapter 17 to pay all or a portion of the legal costs incurred by the city as a result of prosecution of such violations. Penalties assessed under the this clause may be recovered from the Contractor by setoff against unpaid portion of the contract price; and

(4) Such other sanctions as may be imposed by the FEHC pursuant to the provisions of Chapter 17 and other applicable ordinance provisions of the municipal code.

During the performance of this contract, the Contractor agrees:

(A) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual harassment, ancestry, national origin, place of birth, age, or a physical and/or mental disability which would not interfere with the efficient performance of the job in question. The contractor/vendor will take affirmative action to comply with the provisions of Peoria City Code, Chapter 17 and will require any subcontractor to submit to the City of Peoria a written commitment to comply with this division. The Contractor will distribute copies of this commitment to all persons who participate in recruitment, screening, referral, and selection of job applicants, prospective job applicants, members, or prospective contractors.

The Contractor agrees that the provisions of Chapter 17, of the Municipal Code of the City of Peoria is hereby incorporated by reference, as if set out verbatim

(B) That it will examine each one of its workforce job classifications to determine if minorities and/or females are underutilized; and it will take appropriate affirmative action steps to rectify such identified underutilization.

(C) That if it hires additional employees in order to perform this contract or any portion thereof, it will determine the availability of minority and females in the area(s) from which it may reasonably recruit; and every good faith effort will be made in its selection process to minimize or eliminate identified areas of minority and/or female underutilization for each job classification for which there are employment opportunities.

(D) That during the performance of this contract, the Contractor will maintain its eligibility status to conduct business with the City of Peoria under the provisions of the EEO certification registration program.

(E) 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, sex, religion, national origin, age, or physical and/or mental disability.

(F) That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under Chapter 17. If any such labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with Chapter 17, the Contractor will promptly so notify the Equal Opportunity Office (hereinafter EOO) and/or the FEHC for the City of Peoria.

(G) That it will submit reports as required and furnish all relevant information as may from time to time be requested the EOO and/or the FEHC.

(H) That it will permit access to all relevant books, records, accounts and work sites by EOO staff members for purposes of investigation to ascertain compliance with Chapter 17.

(I) That it will include verbatim or by reference the provisions of Section 17-120 of Chapter 17 so that such provisions will be binding 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 EOO and/or FEHC in the event any subcontractor fails or refuses to comply therewith. In addition, no Contractor will utilize any subcontractor declared by the EOO and/or FEHC to be non-responsive and therefore, ineligible for contracts or subcontracts with the City of Peoria.

(J) That during the performance of this contract, the Contractor agrees: that it will have written sexual harassment policies that shall include, at a minimum, the following information: (i) the illegality of sexual harassment; (ii) the definition of sexual harassment under state law; (iii) a description of sexual harassment utilizing examples;
(iv) the contractor's internal complaint process including penalties; (v) the legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Human Rights Commission; (vi) directions on how to contact the Department of Human Rights and the Commission; and (vii) protection against retaliation as provided by Section 6-101 of this Act (Public Act 87-1257). A copy of the policies shall be provided to the Illinois Department of Human

Rights or the City of Peoria upon request.

(K) That during the performance of this contract, the Contractor agrees that they do not and will not maintain or provide for their employees, any segregated facilities at any of their establishments, or permit employees to perform their services at any location under their control where segregated facilities are maintained.

As used in this document, the term segregated facilities means any waiting rooms, work areas, rest rooms and wash rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, religion, color, national origin, because of habit, local custom, or otherwise.

(Revised 01/04)

CITY OF
PEORIA

MINORITY AND WOMEN'S BUSINESS ENTERPRISE (M/WBE) PARTICIPATION REQUIREMENTS FOR GOOD-FAITH EFFORTS

(Projects exceeding $50,000)

Description of Program

A. It is the policy of the City of Peoria to encourage participation of M/WBE's on all city-funded construction projects In complying with this clause bidders are required, when subcontracting opportunities are available, to make a good- faith effort to meet the goals established for M/WBE participation. The participation goals are cited in Section VI on the Subcontractor Utilization Statement.

B. Failure to submit the documentation requested in Sections II and III of this document may cause (1) the bid to be rejected and determined non-responsive; (2) subject the bidders to the sanctions described in Section VIII.

Pre-Bid Efforts when Awarding Subcontracts

A. Bidders are required to contact and solicit, in writing, bids from M/WBEs for available subcontracting. In seeking solicitations, bidders are to identify the portion(s) of work to be subcontracted and offer to break down any portion(s) of work into economically feasible units in order to facilitate M/WBE participation. Bidders also are to provide the name of a specific contact person in their notice to the M/WBEs. Contact shall be made prior to bid opening. The name of each company contacted, the date and method must be submitted with bid documents.

The low bidder shall provide to the City of Peoria, upon request, copies of faxes, letters, and e-mails sent to M/WBEs

B. Bidders who are a MBE or WBE are not exempt from soliciting bids for available subcontracting. The bidder is required to contact, in writing, firms that will help the bidder meet the participation goal for the targeted group opposite to which the bidder belongs. If the bidder is identified as both a MBE and WBE, the participation goals shall be deemed to have been met.

In seeking solicitations, bidders are to identify the portion(s) of work to be subcontracted and offer to break down any portion(s) of work into economically feasible units in order to facilitate M/WBE participation. Bidders also are to provide the name of a specific contact person in their notice to the M/WBEs. Contact shall be made prior to bid opening. A list containing the name of each company contacted, the date and method must be submitted with bid documents.

The low bidder shall provide to the City of Peoria, upon request, copies of faxes, letters, and e-mails sent to M/WBEs.

III. Good-Faith Efforts Documentation when Utilizing Subcontractors

A. All Bidders must provide proof of its compliance with the pre-bid requirements and good-faith efforts to the City. Both the pre-bid documentation and the support documentation requested below must be submitted with bid documents.

1. All Bidders must submit a properly completed **"Subcontractor Utilization Statement."** All Bidders must provide the scope of work to be performed, the dollar amount to be paid, and the percentage amount of the contract for each company listed.
2. All Bidders must submit a list of qualified M/WBE's who submitted proposals but will not be utilized. This list must include a justification for not accepting the proposed bid.

B. Disputes arising from the enforcement of these requirements will be resolved by the Equal Opportunity Office.

IV. Waiver Requirements When Self-Performing All Work

A. All bidders will make every effort to make subcontract opportunities available to M/WBEs. However, if such an opportunity cannot be made available, the Bidder must seek a waiver by submitting **"M/WBE Participation Waiver Request."** The waiver request must be submitted to the City of Peoria with bid documents.

B. For the M/WBE waiver request to receive consideration, the following supportive documentation that applies must accompany the form:

1. A narrative describing the Bidder's good faith efforts to secure M/WBE participation prior to bid opening.

2. A notarized affidavit attesting the Bidder did not receive inquiries or proposals from qualified M/WBEs in response to the required notification prior to bid opening.

3. A written explanation for why the Bidder believes no subcontracting opportunities exist. ***If the City of Peoria determines that the explanation is insufficient it reserves the right to halt the bid award process to request additional information from the Bidder. The Bidder will receive the request for information in writing.***

4. A written explanation for why the Bidder believes it is impracticable to award any subcontract(s) on the project in question. ***If the Equal Opportunity Office determines that the explanation is insufficient it reserves the right to halt the bid award process to request additional information from the Bidder. The Bidder will receive the request for information in writing.***

V. Change In Use of Subcontractors or Self-Performance Status

Before the General Contractor can deviate from utilizing any of the subcontractors listed on the Subcontractor Utilization Statement or its declared intent to self-perform, it must submit a completed **Notification of Change in Participation** form to the City of Peoria. Upon notification construction on the project may be delayed or halted until a review is conducted by the Equal Opportunity Office.

Regarding a self-performance change, if a subcontracting opportunity has been made available, the General Contractor must identify all good faith efforts made to meet the M/WBE participation goals, unless the change was due to an emergency.

VI. Procedures for Counting M/WBE Participation toward Goals (based upon Department of Transportation regulations)

i. When an M/WBE participates in a contract, count only the value of the work actually performed by the M/WBE toward M/WBE participation goals.

1. Count the entire amount of that portion of a construction contract (or other contract not covered by paragraph (i)(2) of this section) that is performed by the M/WBE's own forces. Include the cost of supplies and materials obtained by the M/WBE for the work of the contract including supplies purchased or equipment leased by the M/WBE (except supplies and equipment the M/WBE subcontractor purchases or leases from the prime contractor or its affiliate).

2. Count the entire amount of fees or commissions performed by an M/WBE firm towards M/WBE goals if that firm provides the Apparent Low Bidder a bona fide professional, technical, consultant, or managerial service or provides bonds or insurance specifically required in a City of Peoria contract.

3. If an M/WBE subcontracts a portion of its work to an M/WBE, 100% of the value of the subcontracted work may be counted toward the M/WBE goal, but any portion of the work the M/WBE subcontracts to a non-M/WBE does not count toward the M/WBE goal.

ii. When an M/WBE participates in a joint venture on a City contract, only count the dollar value of the portion of the work that the M/WBE performs with its own forces toward M/WBE goals.

iii. Count expenditures to an M/WBE contractor toward M/WBE goals if, and only if, the M/WBE is performing a commercially useful function on that contract.

1. An M/WBE performs a commercially useful function when it is responsible for performing, managing, and supervising its contracted work; moreover, with respect to materials and supplies used on the contract, it must also be responsible for negotiating its price, and purchasing and managing those supplies.

2. An M/WBE does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction, contract, or project through which funds are passed in order to obtain the appearance of M/WBE participation. It should be noted that an effort contrived to give the appearance of M/WBE participation is not considered a good faith effort and is considered an ethical violation that is subject to sanctions outlined in section V.

3. If an M/WBE does not perform or exercise responsibility for at least 30% of the total cost of its contract with its own work force, you must presume that it is not performing a commercially useful function and the dollar amount of that work will not count toward the M/WBE goals.

4. When an M/WBE is presumed the City of Peoria not to be performing a commercially useful function as provided in paragraph (iii)(3) of this section, the M/WBE may present evidence to rebut this presumption. Your rebuttal is subject to review by the City of Peoria.

iv. Use the following factors in determining if an M/WBE trucking company is performing a commercially useful function:

1. The M/WBE trucking company must manage and supervise the trucking work it is being paid to perform. A contrived arrangement for the purpose of giving the appearance of meeting M/WBE goals is not considered a good faith effort.

2. The M/WBE trucking company must own and operate at least one fully licensed, insured, and operational truck used on the contract.

3. The M/WBE trucking company receives credit for the total dollar value of the transportation services it provides on the contract using trucks it owns, insures, and operates.

4. The M/WBE trucking company may lease trucks from another M/WBE trucking firm, including an owner-operator who is certified as an M/WBE. The M/WBE who leases trucks from another M/WBE receives total credit for the dollar value of the transportation services the M/WBE trucking lessee provides on the contract.

5. The M/WBE trucking company may also lease trucks from a non-M/WBE trucking firm, including an owner-operator. The M/WBE who leases trucks from a non-M/WBE is only entitled to credit for the fee or commission it receives as a result of the lease arrangement. The M/WBE does not receive credit for the total dollar value of the transportation services provided by the lessee since these services are not provided by an M/WBE.

6. A lease agreement with an M/WBE trucking firm must indicate that the M/WBE has exclusive use of and control over the truck. This does not preclude the leased truck from working for others during the term of the lease with the consent of the M/WBE, so long as the lease gives the M/WBE absolute priority for use of the leased truck. Leased trucks must display the name and identification number of the M/WBE.

v. Count expenditures with M/WBEs for materials and supplies toward M/WBE goals in the following manner:

1. If the materials or supplies are obtained from an M/WBE manufacturer, count 100% of the cost of the materials or supplies toward M/WBE goals.

Note: For purposes of this paragraph (v)(1), a manufacturer is a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the

contract and of the general character described by the specifications.

2. If the materials or supplies are purchased from an M/WBE regular dealer, count 60% of the cost of the materials or supplies toward M/WBE goals.

   Note: For purposes of this section, a regular dealer is a firm that owns, operates or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under the contract are brought, kept in stock, and regularly sold or leased to the public in the usual course of business.

   (A) To be a regular dealer, the firm must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question.

   (B) A person may be a regular dealer in such bulk items as petroleum products, steel, cement, gravel, stone, or asphalt without owning, operating, or maintaining a place of business as provided in this paragraph (v)(2), if the person both owns and operates distribution equipment for the products. Any supplementing of regular dealers' own distribution equipment shall be by a long-term lease agreement and not on an ad hoc or contract-by-contract basis.

   (C) Packagers, brokers, manufacturers' representatives, or other persons who arrange or expedite transactions are not regular dealers within the meaning of the paragraph (v)(2).

3. If materials or supplies are purchased from an M/WBE which is neither a manufacturer nor a regular dealer, count only 5% of the contract amount toward the M/WBE goals.

VII. Record Keeping and Reporting

A. The General Contractor and subcontractors agree to maintain records demonstrative of its good faith efforts to comply with the participation goals attached to the project. This would include, but not limited to, names of M/WBEs and non-minority firms awarded subcontracts, including dollar amount of the contract, payments to subcontractors, and weekly certified payroll reports. These records shall be made available to the City of Peoria.

B. All information will be provided through ePrismSoft, an electronic web based compliance tracking software. Access to ePrismSoft has been furnished by the City of Peoria. To activate access, the General Contractor and subcontractors must contact Human Capital Development at webnfo@eprismsoft.com or 309/692-6400.

VIII. Sanctions

A. The Equal Opportunity Office may recommend the rejection of the apparent low bid where the information submitted by the Apparent Low Bidder fails to objectively demonstrate compliance with the M/WBE Good-Faith Efforts requirements. The Apparent Low Bidder will be notified of this decision and the reasons in writing. The Apparent Low Bidder may request a hearing within five (5) business days of this notice. The request must be submitted to the Equal Opportunity Office. The hearing will be held no later than seven (7) business days after receipt of request. The City Manager or designee will conduct all hearings.

B. Upon a finding that any party has not complied with the provisions of this clause, any one or a combination of the following actions may be taken:

1. Declare the Apparent Low Bidder non-responsive and therefore ineligible for contract award.

2. Declare the Apparent Low Bidder ineligible for further contracts for a calendar year.

3. File a formal complaint against Apparent Low Bidder, and/or subcontractor with the Fair Employment and Housing Commission.

org. 05/08/08 rev.
04/17/12

HUMAN RIGHTS ACT

The contract will be subject to and governed by the rules and regulations of the Illinois Human Rights Act, including Public Act 87-1257 (effective July 1, 1993) which requires that every bidder shall have a written sexual harassment policy that includes, at a minimum, the following information:

a. The illegality of sexual harassment;

b. The definition of sexual harassment under State law;

c. A description of sexual harassment, utilizing examples;

d. The bidder's internal complaint process including penalties;

e. The legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Illinois Human Rights Commission;

f. Directions on how to contact the Department and the Commission;

g. Protection against retaliation as provided in the Act.

Bidders are hereby placed on notice, a copy of its policy shall be provided to the Department upon request.

SAXI-93
effective 7-1-93
per Legal Dept

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2015

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

ERRATA Standard Specifications for Road and Bridge Construction
(Adopted 1-1-12) (Revised 1-1-15)

SUPPLEMENTAL SPECIFICATIONS

CHECK SHEET
FOR
RECURRING SPECIAL PROVISIONS

Adopted January 1, 2015

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

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CHECK SHEET
FOR
LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

Adopted January 1, 2015

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

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", Adopted January 1, 2012, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", and the "Manual of Test Procedures of Materials" in effect on the date of invitation of bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included here in which apply to and govern the construction of University Street (Sec 12-00361-01-PV), and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

SEQUENCE OF CONSTRUCTION

The Contractor shall submit a progress schedule to the Resident Engineer before any work begins. The schedule shall identify the proposed sequence of work, the controlling item of work for each stage, and a calendar day schedule based on typical working day conditions. The progress schedule shall be updated by the Contractor as the work proceeds. Payment under this contract may be withheld if the Contractor has not submitted a satisfactory progress schedule.

Proposed improvements shall be constructed in an orderly and continuous manner. The Contractor shall make daily progress and not interrupt construction activity unless weather or unexpected utility conflicts prevent progress. The Contractor shall be solely responsible for coordinating utility relocations and providing sufficient materials, labor and equipment to complete the project within the contract time. Once the Contractor begins to remove driveways or street pavement, the Contractor is expected to work expeditiously in completing the project. The Contractor shall inform the Resident Engineer on a weekly basis what work will be performed the next week. The Contractor shall also inform the Resident Engineer of any changes to the weekly work plan at the earliest opportunity.

The City of Peoria expects the project work to begin with construction of the storm drainage system. This work shall be started at the earliest opportunity and shall be accomplished without overnight lane closures. Existing traffic signal equipment at the Forrest Hill intersection shall only be removed when necessary for construction of the proposed curb and gutter. Temporary traffic signals shall be installed and operational at such time existing equipment is disabled.

All HMA paving, surface removal, and pavement marking work is to be provided under a separate contract to be awarded by the City of Peoria. Upon completion of curb and gutter work, the City of Peoria shall coordinate the work of the two contracts.

COMPLETION DATE

The Contractor shall schedule his operations so as to complete all work and open all the roadway to traffic on or before October 31, 2015. All concrete curb and gutter work along the public streets shall be completed by September 14, 2015.

TRAFFIC CONTROL & PROTECTION

This work shall consist of all the furnishing of labor, materials, and equipment necessary to control and direct traffic traveling within the project limits for the purposes of protecting persons and property within the work zone from damage and injury. The Contractor's efforts shall be

guided by the standard detail drawings produced by the Illinois Department of Transportation and accepted standard practice. Section 701 of the Standard Specifications provides material and equipment requirements and operational practices to be employed by the Contractor. Section 701 is modified by this special provision to remove responsibility from the Engineer and City of Peoria for the administration, approval, and consent of the traffic control.

In general, protection of the public shall be in accordance with Chapter 26, Article V of the Code of the City of Peoria, Illinois entitled "Excavation Generally," except that Sections 26-139, 26-140, 26-141 and 26-142 shall not apply.

The construction drawings do not include project specific traffic control plans to be followed by the Contractor. The Contractor shall develop traffic control plans for the various elements of work in accordance with the standard details included by reference. The traffic control measures shall be tailored to the Sequence of Work that is employed by the Contractor. The Contractor is solely responsible for traffic control and protection within the project limits from the inception of the work until the final completion. The Resident Engineer is available to the Contractor for consultation about the minimum requirements of the Standard Details and Standard Specifications.

The Contractor is expected to maintain a minimum of one lane per direction open to traffic at all times for traffic. It is absolutely necessary that one lane of roadway can be used by fire, police, and other emergency vehicles at all times under all weather conditions. The contractor shall, at all times, maintain a means for sidewalk traffic to detour the work zone. The Contractor will be responsible for scheduling his operations to provide access to all businesses located along the improvement that have current access to the street.

Traffic control and protection measures shall also be placed along intersecting streets to notify drivers of the construction activity of the construction activity ahead.

The Contractor shall sweep and remove any soil tracked onto the street by the end of the workday or before four (4) hours has elapsed, whichever is sooner.

All labor, materials, and equipment required to plan and implement a traffic control plan throughout the contract duration will be paid for at the contract unit price per Lump Sum for Traffic Control and Protection, (Special).

CUTTING EXISTING PAVEMENTS, SIDEWALKS, AND CURB & GUTTER

At locations where new construction will abut existing asphalt or concrete pavements, driveways, sidewalk, or curb and gutter; a uniformly straight cut shall be obtained by the use of a diamond concrete saw. The use of pneumatic tools to make these cuts will not be allowed. This work shall be considered as included in the contract unit prices for the various pay items of the proposed construction involved and no additional compensation will be allowed.

PROTECTION OF EXISTING TREES

All necessary precautions shall be taken to prevent damage to existing trees. Roots of two inch (2") diameter or more shall not be severed. Precautions shall be taken to prevent damage to the

bark of existing trees by machinery or other means. Any damage shall be corrected as directed by the Engineer at the expense of the Contractor.

ABANDONED EXISTING STORM SEWER PIPES

Where existing storm sewers are to be abandoned in place, the remaining pipe opening shall be sealed using concrete or brick masonry units and grout to prevent the infiltration of ground water into the abandoned pipe. This work will not be paid for separately but will be considered as included in the contract unit prices for the various storm sewer pay items and no additional compensation will be allowed.

SALVAGEABLE MATERIALS

All materials deemed salvageable by the Engineer shall remain the property of the City of Peoria and shall be delivered to the location designated by the Engineer. The Contractor shall dispose of any materials off site that the Engineer determines should not be salvaged. This work will not be paid for separately and is considered to be included in the cost of the various removal items.

FRENCH DRAIN

This work and materials shall be in accordance with plan details and the Standard Specifications. The French Drain is to be constructed at specified locations under the curb and gutter. The various materials and work required to construct the French Drain are described as follows.

Earth Excavation – Excavation for the trench shall be paid per cubic yard of excavated materials. The plan quantity has been calculated from cross sections using the measured average end-area. The trench excavation limits shall be kept to a minimum. The contractor will not be paid for excavation wider or deeper than the specified dimensions of the trench.

Geotechnical Fabric for French Drain – Nonwoven fabric as specified in Article 1080.05 of the Standard Specifications shall be used. Fabric shall be placed along the length of the trench using pins to hold the fabric against the trench walls. After aggregate has been placed in the trench, the fabric shall be wrapped over the top of the trench and overlapped not less than 6 inches. When a second roll of fabric must be used to continue the trench, the fabric shall be overlapped not less than 2 two feet and secured with pins. The upstream fabric shall lay on top of the downstream fabric. Securing pins shall be included in the unit price for the fabric.

Pipe Underdrains – Pipe underdrains of the specified diameter shall be placed within the aggregate French Drain at the specified elevation. Perforated PVC pipe per Article 1040.03 shall be installed. Other pipe materials will not be allowed. The underdrain pipe shall be installed without the fabric envelope. The pipe underdrain shall be measured and paid at the contract unit price per foot.

Aggregate for French Drains – Aggregate materials shall be of gradation CA-11 or CM-11 per Section 1004. The aggregate shall be gravel and not crushed. Because the aggregate must allow water to flow freely through the French Drain, the aggregate shall be kept in a clean condition and not contaminated with native soil material, vegetation, sand, or other debris. The aggregate shall not be stockpiled on the project site. The material shall be transferred directly from the delivery truck and into the trench. Contaminated aggregates shall be removed from the project at

the Contractor's expense. Material will only be approved for payment that is within the fabric lined trench and complies with the plan details and these specifications.

CATCH BASIN, TYPE C AND INLET, TYPE B

This work and materials shall be in accordance with plan details and the Standard Specifications. The contractor shall submit shop drawings of each structure for review by the Engineer before their manufacture. These drainage structures will capture runoff from the street and transfer the runoff into the French Drain. The drainage structures shall be constructed without the PCC Base slab as shown in the plan details. A 12 inch base layer of CA-07 shall be placed below the inlet structure. The inlet wall shall rest on a concrete footing to support the structure. Geogrid shall be placed over the CA-07 aggregate base before installing the precast concrete structure. Aggregate materials and geogrid materials shall be provided as shown in the plan details and included in the contract unit price per each structure.

STORM SEWER, CLASS B

This work shall comply with Section 550 of the Standard Specifications with the exception that Trench Backfill will not be measured or paid for separately. Trench Backfill will be required for all storm sewer installations and the cost of furnishing and installing the aggregate material shall be included in the unit price for Storm Sewers, Type B.

BRICK PAVERS

This work shall consist of placing permeable concrete unit pavers at two separate locations. The location identified as Detail Plan H shows the pavers being placed as a sidewalk surface between a concrete wall and curb. The other location identified as Detail Plan J shows the pavers being used as a parking lane. The paver and aggregate materials are the same in both locations. A 12" thick drainage base layer using material CM-11, CA-11 or CA-18 shall be installed as shown in the plan detail. A 1.5" bedding layer shall be installed as described in LRS 14 contained herein. The permeable concrete unit pavers shall be Unilock's "Priora" or equivalent. CA-22 aggregate shall be swept into the joints after brick installation. The 12" aggregate base layer, bedding aggregate, brick pavers, CA-22 and all labor shall be provided as required to install the detail as shown and paid for at the contract unit price per Square Foot.

COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (MODIFIED)
COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18 (MODIFIED)

This work shall consist of constructing curb and gutter in accordance with Highway Standard 606001 and as modified by the detail provided in the construction plans. Section 606 of the Standard Specifications shall govern the work and materials of curb and gutter. The PCC sidewalk support PCC base course widening shall be constructed in conjunction with the curb and gutter construction and payment for all material work shall be included in the unit price for curb and gutter. The PCC Base Course Widening work and materials shall comply with Section 354. This material is used to fill the space between the new curb and gutter and the existing street pavement. The thickness shall be equal to existing pavement thickness less the proposed HMA thickness.

CONCRETE CURB (SPECIAL)

Concrete Curb (Special) shall be installed at locations specified and as shown in the plan detail. This item is required where the curb height above grade is to be taller than 6 inches.

Reinforcement bars shall be provided and installed as shown. Section 606 of the Standard Specifications shall govern the materials and construction of this item.

Work will be paid for at the Contract Unit Price per Linear Foot of Concrete Curb (Special), which price shall be considered payment in full for all labor, equipment, backfill, and all material necessary to complete the work.

CONCRETE WALL, SPECIAL

This work shall consist of installing the cast-in-place concrete wall with its form liner textured surface in accordance with Section 503 of the Standard Specifications, the plans, and as directed by the Engineer.

The wall shall be no higher than 36 inches above any finished, adjacent surface, without a Structural Engineer approval. The plans specify general depth of structure to be 3'-6" below grade. #5 Rebar is to be installed with ties and spacing as shown in the plan details. Concrete shall be 4,000 PSI air entrained. Class SI concrete used for cast-in-place structures shall contain a high range water-reducing admixture according to Article 1021.03(c) of the Standard Specifications to obtain a 5"-7" slump. Reinforcing steel shall comply with ASTM A615 and have a yield strength of 60,000 psi. Control Joints shall be placed not more than 20 feet on center.

A PCC footing shall be constructed on native, undisturbed soil. If soil under the footing consists of soft clay then 6" of compacted CA-6 shall be placed, meeting Article 1004 of the Standard Specifications.

A smooth rubbed finish shall be provided on all exposed surfaces of the wall. Contractor shall remove fins and repair tie holes and defective areas. Contractor shall moisten concrete surfaces and rub with carborundum brick or another abrasive until producing a uniform color and texture.

The pattern of the form liner shall appear natural and non-repeating. Seam lines or match lines caused from two or more molds coming together shall not be apparent when viewing final wall. The molds shall not compress more than ¼ inch when concrete is poured at a rate of 10 vertical feet per hour. The molds shall be removable without causing deterioration of surface or underlying concrete. The forms shall be properly braced or tied together to maintain position and shape. The forms shall be made sufficiently tight to prevent leakage of the mortar. The formwork shall have the strength and stability to ensure finished concrete dimensions within the tolerances specified herein.

The City of Peoria has pre-approved the following form liner suppliers and patterns for the textured surface:

1. American Form Liners, IL – Pattern #1295 Sierra Drystack. www.americanformliners.com
2. Scott System, CO – Pattern #189, Teton Dry Stack. www.scottsystem.com
3. Custom Rock, MN – Pattern #12005, Bearpath Coursed Stone. www.customrock.com

Any other similar form liner and its specifications must be submitted to the City for approval. Carving/sculpting a similar pattern without form-liners must be approved by the City of Peoria.

Contractor carving/sculpting must be pre-approved by the Engineer by submitting previous local similar work portfolio to the City of Peoria.

Form ties shall be made of either metal or fiberglass. Metal ties, which result in a portion of the tie permanently embedded in the concrete, shall be designed to separate at least one inch back from the finished surface, leaving only a neat hole that can be plugged with patching material. Contractor shall submit the type of form ties to the Engineer for approval prior to use in this work.

Basis of Payment
Work will be paid for at the Contract Unit Price per SQUARE FOOT of CONCRETE WALL, SPECIAL, as determined by the wall length multiplied by its height of the wall specified in the plans, which price shall be considered payment in full for all labor, equipment, excavation, backfill, and all material necessary to complete the work as specified. Materials included as incidental to the wall are rebar, ties, and form-liner and aggregates. The cost will also include rubbing the face of the exposed surfaces to create a clean finish. The footing material and work shall be included in the contract unit price of CONCRETE WALL, SPECIAL.

TIMBER RETAINING WALL
Description
This work shall consist of reconstructing existing timber retaining walls to allow for new sidewalk construction. New timber materials shall comply with the requirements of Section 1007 of the Standard Specifications. Construction methods shall be compatible with the existing wall and result in a stable vertical wall that will not yield over time.

Basis of Payment
Work will be paid for at the Contract Unit Price per SQUARE FOOT of TIMBER RETAINING WALL as determined by the length multiplied by its height, which price shall be considered payment in full for all labor, equipment, excavation, backfill, and all material necessary to complete the work.

REMOVE AND RELOCATE SIGN (SPECIAL)
The business sign located at the southeast corner of Loucks and Forrest Hill shall be removed from the current location and reinstalled at a location acceptable to the business owner and Engineer. The sign is identified on the Removal Plan provided in the plan drawings. All cost of labor and materials necessary to remove and relocate the sign shall be paid at the contract unit price per Each location.

SOIL CELLS
Description
This work shall consist of furnishing and installing Soil Cell system, including: geotextile, geogrids, aggregates, sub base material, backfill, drainage system, root barrier, compost, and the installation of planting soil. The location and general details of this installation are provided in the construction plan set.

1.1 SUBMITTALS

A. Upon forty-five (45) days prior to start of installation of items in this section, the Contractor shall provide submittals to the Engineer for review.

B. Product Data: For each type of product, submit manufacturer's product literature with technical data sufficient to demonstrate that the product meets these specifications.

1. For bulk materials, including soils and aggregates, include analysis of the materials by a recognized laboratory made that demonstrates that the material meets the specification requirements.

2. Soil Cell manufacturer's letter of review and approval of the project, plans, details and specifications for compliance with product installation requirements.

C. Installation Plan and Details: Provide detailed drawings of the proposed installation and materials.

1.2 SOIL CELLS

A. The term Soil Cell shall be used to refer to a single Soil Cell or a stack of Soil Cells.

B. Soil Cells shall be modular, structural systems.

C. Each Soil Cell shall be structurally-independent from all adjacent Soil Cells.

D. Soil Cells shall be specifically designed and tested for the purpose of growing healthy trees and providing stormwater management.

E. Soil Cells shall be capable of supporting loads up to and including AASHTO H-20, when used in conjunction with approved pavement profiles.

F. Soil Cells shall be open on all vertical faces and horizontal planes (that connect stacked Soil Cells) and shall have no interior walls or diaphragms. Soil Cells shall be capable of providing a large, contiguous, continuous volume of planting soil that does not inhibit or prevent the following:

1. Movement and growth of roots within the provided soil volume
2. Movement of water within the provided soil volume, including lateral capillary movement
3. Placement of planting soil
4. Compaction testing of planting soil, once in place
5. Installation and maintenance of utilities within, adjacent to, or below the Soil Cell

G. Soil Cells shall be able capable of being filled with a variety of soil types as is appropriate for the application, location of the installation, and tree species.

H. Soil Cells shall be manufactured by: DeepRoot Green Infrastructure, LLC (DeepRoot); 101 Montgomery Street, Suite 2850; San Francisco, CA 94104; USA; Phone - 415.781.9700 (800.458.766); Fax - 415.781.0191; www.deeproot.com – Or approved equivalent that adheres to all of the above requirements.

l. Soil material to be placed in Soil Cells shall comply with Section 211 of the Standard Specifications.

Basis of Payment
This work will be paid for at the contract unit price per Each cell. A cell shall have dimensions 24" wide by 48" long by 16" tall. The contract unit price shall include all materials and labor to install a complete system. Topsoil material shall be included in the unit price per Each. Trees to be planted shall be paid for separately.

PORTLAND CEMENT CONCRETE BASE COURSE (VARIABLE DEPTH)
This work shall comply with all requirements of Section 353 of the Standard Specifications. The material shall be placed at the locations indicated in the typical sections for the purpose of widening the existing pavement. The thickness of the proposed material shall be placed to the bottom elevation of the existing pavement and 4" below the proposed pavement surface. Existing pavement thickness information is provided at specified locations where cores where extracted. That information is provided in table format in the Removal Plan sheets. This work will be paid for at the contract unit price per square yard for PORTLAND CEMENT CONCRETE BASE COURSE (VARIABLE DEPTH).

LANDSCAPE WALL RELOCATION
This work shall consist of the removal and reconstruction of landscape type retaining walls constructed along the property lines at the back of existing sidewalks. The Contractor shall exercise care to prevent any disturbance to any such existing walls. Locations where such removal and reconstruction will be required in order to build the proposed sidewalk are identified in the plans. These specified locations and any other locations found to be in conflict by the Contractor must be verified with the Engineer's Representative before any removal takes place. The Engineer's Representative shall confirm the removal limits with the Contractor before removal. Any removals performed without prior notification and agreement of the Engineer's Representative shall be done and reconstructed without payment by the City. The Contractor shall reconstruct the wall with the salvaged material or new material of equal type and quality at the agreed location. This work will be paid for at the contract unit price per square foot of wall face for LANDSCAPE WALL RELOCATION.

RESETTING OF SECTION CORNERS
The Contractor will be responsible for locating and making recovery ties for all of the section corners before and after construction. If section monuments have been disturbed, the Contractor's Land Surveyor will be responsible for replacing the section corner with the appropriate information and recording the new Monument Records with the appropriate County Recorder as required by law. This work will not be paid for separately. The Contractor is expected to preserve and protect monuments such that replacement is not necessary.

LED STREET LIGHT POLE AND LUMINAIRE (COMPLETE)
Description
This work shall consist of furnishing and installing a luminaire and associated light pole in accordance with Section 821 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

Materials
The full cut-off luminaire shall have a structured LED 2 engine array driven at 700mA to provide a minimum of 13,000 initial lumens at 4000K. Distribution shall be IES Distribution Type 3. Provide a multi-tap type driver yet voltage will be 240VAC nominal. The luminaire enclosure shall be IP65 rated and be Black in color.

The luminaire shall be the D-Series manufactured by Lithonia, catalog number DSX1 KED 60C 700 40K T3M MVOLT RPA DBLXD; or equivalent.

The pole shall be 25 foot round straight aluminum with all thickness of 0.188. Include a vibration dampener inside of the pole. Pole shall be black in color. Lithonia, catalog number RSA 25 6G.

Basis of Payment
This work will be paid for at the contract unit price each for LED STREET LIGHT POLE AND LUMINAIRE (COMPLETE) which price shall include all labor, equipment, and material necessary to complete the work as specified.

IN GROUND PEDESTRIAN LIGHTING SYSTEM COMPLETE, SPECIAL
Description
This work shall consist of installing the In Ground Pedestrian Lighting system and all electrical cable connections to the controller in accordance with Sections 801, 876, and 888 of the Standard Specifications, the plans, and as directed by the Engineer. The City of Peoria will provide materials including cabinet, controller, post-mountable LED signs, brackets, pedestrian push buttons, push button signs, nodes, 2-cable wires, light pucks, adhesive, and epoxy.

Contractor to route wiring from push buttons to controller to in-pavement lighting system in PCC crosswalk. Wiring will connect in-pavement lights in the single loop on outer perimeter of PCC crosswalk.

Contractor to sawcut the area prior to installation for drop-in of circuit with City-provided epoxy to be placed on top of wire in loop. The main circuit is to be split at each node, and pucks are to be placed with adhesive bonding them to pavement.

Pedestrian Push buttons are to be drilled into posts as shown in the plans. LED functional pedestrian signs are to be mounted to posts as shown in the plans. Contractor to provide Electric Service Installation, paid for separately from the Lump Sum payment for In Ground Pedestrian Lighting System Complete, Special.

Basis of Payment
Work will be paid for at the Contract Unit Price per EACH of ELECTRIC SERVICE INSTALLATION to the controller, which price shall be considered payment in full for all labor, materials and equipment to complete the work as specified.

Work will be paid for at the Contract Unit Price per LUMP SUM of IN GROUND PEDESTRIAN LIGHTING SYSTEM COMPLETE, SPECIAL for the installation of the lighting system specified in the plans, which price shall be considered payment in full for all labor, supplemental materials and equipment to complete the work as specified.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

This work shall consist of removal of existing traffic signal equipment listed at the three (3) intersection locations designated on the plans. This work shall be completed as specified in Article 895 of the Standard Specifications. All removed equipment shall be salvaged and taken to the City of Peoria's Public works Operations Building, 3505 N. Dries Lane, Peoria, IL 61604. The Contractor shall notify Sie Maroon at 309-645-5139 forty-eight (48) hours in advance of equipment delivery.

This work will be paid for at the contract unit price per each for Remove Existing Traffic Signal Equipment.

REMOVE EXISTING HANDHOLE AND REMOVE EXISTING DOUBLE HANDHOLE

This work shall consist of removing existing handholes at locations identified on the plans. This work shall be completed as specified in Article 895 of the Standard Specifications. This work will be paid for at the contract unit price per each for Remove Existing Handhole and Remove Existing Double Handhole.

REBUILD EXISTING HANDHOLE

Description: This work shall consist of adjusting an existing handhole to bring the frame to the proposed grade at the locations shown on the plans or as directed by the Engineer.

General: The work shall be performed according to Section 603 and Section 814 of the "Standard Specifications", and the following:

1. Excavate the area adjacent to each side of the handhole to allow forming.

2. Remove the handhole frame and cover. Remove the existing walls of the handhole to a depth of 8" below the proposed finished grade.

3. Drill eight, ¾" diameter holes, 6" in deep into the remaining concrete. Drill 2 holes on each of the four handhole walls.

4. Install a 12" long section of #5 reinforcement bar, epoxy coated, in each drilled hole. The bars shall be installed with an approved masonry epoxy from the Approved List of Chemicals Adhesives (IDOT Bureau of Materials and Physical Research).

5. Form and place the new portions of the handhole walls. Replace the steel hooks as required.

6. Reinstall the handhole frame and cover.

All concrete debris shall be disposed of outside the right-of-way according to the requirements of Article 202.03 of the "Standard Specifications".

Basis of Payment: This work will be paid for at the contract unit price per each for REBUILD EXISTING HANDHOLE. The unit price shall include all labor materials and equipment required to perform the work. No additional compensation will be allowed for multiple adjustments to the same structure.

REMOVE EXISTING CONCRETE FOUNDATION

This work shall consist of removing existing concrete foundations at locations identified on the plans. This work shall be completed as specified in Article 895 of the Standard Specifications. This work will be paid for at the contract unit price per each for Remove Existing Concrete Foundation, which price shall be payment in full for all labor, equipment and materials necessary to complete this work as specified herein and as directed by the Engineer.

SIGNAL HEAD, LED

This work shall be in accordance with Sections 880 and 1078 of the Standard Specifications except as modified herein.

The traffic signal heads shall consist of 12" polycarbonate sections and shall be equipped with LED assemblies for all red bulb, yellow bulb, green bulb, red arrow, yellow arrow, and green arrow indications.

The traffic signal heads for intersections located in the city of Peoria shall have a black finish with black doors and tunnel visors. All other locations shall have a yellow finish with black doors and tunnel visors.

The LED signal faces shall be equipped with spade connectors and connected to the traffic signal head terminal block.

The LED modules shall conform to the specifications listed under the section TRAFFIC SIGNAL LED MODULE SPECIFICATIONS.

The Contractor shall install the proposed signal head in a location approved by the Engineer to provide proper visibility for the movement.

In the event that the existing traffic signal heads need to be relocated to properly position the proposed traffic signal heads, the Contractor shall relocate the head and provide all materials (brackets, hardware, banding, etc.) that are required to relocate the head as a part of this pay item.

The Contractor shall remove the existing heads, brackets, and any "Left Turn Yield on Green Ball" signs on and deliver them to the city of Peoria Traffic Operations Facility. This work will not be paid for separately, but shall be included in the bid price for this pay item. The Contractor shall reflect the salvage value of this equipment in the bid price for this pay item.

Basis of Payment: This work will be paid for at the contract unit prices each for SIGNAL HEAD, LED of the type specified and shall be payment in full for all labor, materials, and equipment required to provide and install the traffic signal heads described above, complete.

TRAFFIC SIGNAL LED MODULE SPECIFICATIONS

The material requirement shall be in accordance with Sections 880 and 1078 of the Standard Specifications except as modified herein.

The LED assemblies for the red, yellow, and green solid and arrow indications shall meet or exceed the following minimum specifications:

Solid Indication LED Module Specifications

Compliance:	Fully compliant with ITE VTCSH LED Circular Signal Supplement specifications dated and adopted June 27, 2005
Compliance Verification:	Intertek ETL verified compliance – Product must be listed on the "Directory of LED Modules Certified Products" list located on the ETL website at http://www.intertek.com/lighting/performance-testing/traffic-signals/
Diameter:	12" (300mm)
Lens:	UV stabilized scratch resistant polycarbonate, tinted red or yellow, clear for green, uniform non-pixelated illumination, Incandescent Appearance
LEDS:	Hi-Flux
Operating Temperature Range:	-40 to +74C (-40 to +165F)
Operating Voltage Range:	80 to 135 V (60Hz AC)
Power Factor (PF):	> 90%
Total Harmonic Distortion (THD):	< 20%
Minimum Voltage Turn-Off:	35V
Turn-On/Turn-Off Time:	<75 ms

Nominal Power:	10.0 W (Red), 18.0W (Yellow), 12.5 W (Green)
Nominal Wavelength:	625-626 nm (Red), 589-590 nm (Yellow), 500-502 nm (Green)
Minimum Maintained Intensity:	365 Cd (Red), 910 Cd (Yellow), 475 Cd (Green)
Standard Conformance:	FCC compliant for electrical noise, MIL-STD-810F for moisture resistance, MIL-STD-883 for mechanical vibration, NEMA TS2 Transient Voltage Protection
Warranty:	5 year replacement (materials, workmanship, and intensity)

Arrow Indication LED Module Specifications (Red, Yellow, Green)

Compliance:	Fully compliant with ITE VTCSH LED Vehicle Arrow Supplement specifications adopted July 1, 2007
Compliance Verification:	Intertek ETL verified compliance – Product must be listed on the "Directory of LED Modules Certified Products" list located on the ETL website at http://www.intertek.com/lighting/performance-testing/traffic-signals/
Diameter:	12" (300mm)
Lens:	Clear Frosted, UV stabilized scratch resistant polycarbonate, tinted red or yellow, clear for green, uniform non-pixelated illumination, incandescent appearance, omni-directional
LEDS:	Hi-flux LEDs
Operating Temperature Range:	-40 to +74C (-40 to +165F)
Operating Voltage Range:	80 to 135 V (60Hz AC)
Power Factor (PF):	> 90%
Total Harmonic Distortion (THD):	< 20%
Minimum Voltage Turn-Off:	35V
Turn-On/Turn-Off Time:	<75 ms

Nominal Power:	5.0-7.0 W (Red), 6.0-12.5W (Yellow), 5.0-7.0 W (Green)
Nominal Wavelength:	625-628 nm (Red), 590 nm (Yellow), 500nm (Green)
Minimum Maintained Intensity:	56.8-58.4 Cd (Red), 141.6-146.0 Cd (Yellow), 73.9-76.0 Cd (Green)
Standard Conformance:	FCC compliant for electrical noise, MIL-STD-810F for moisture resistance, MIL-STD-883 for mechanical vibration, NEMA TS2 Transient Voltage Protection
Warranty:	5 year replacement (materials, workmanship, and intensity)

Arrow Indication LED Module Specifications (Yellow/Green Dual Mode)

Diameter:	12" (300mm)
LEDS:	Interconnected to minimize the effect of single LED failures
Lens:	Clear UV stabilized scratch resistant polycarbonate, uniform non-pixelated illumination, incandescent appearance
Operating Temperature Range:	-40 to +74C (-40 to +165F)
Operating Voltage Range:	80 to 135 V (60Hz AC)
Power Factor (PF):	> 90%
Total Harmonic Distortion (THD):	< 20%
Minimum Voltage Turn-Off:	35V
Turn-On/Turn-Off Time:	<75 ms
Nominal Power:	8.0-10.0 W (Yellow), 8.0-10.0 W (Green)
Nominal Wavelength:	590-592 nm (Yellow), 505-508 nm (Green)
Minimum Maintained Intensity:	141.6-146.0 Cd (Yellow), 73.9-76.0 Cd (Green)

Standard Conformance:	FCC compliant for electrical noise, MIL-STD-810F for moisture resistance, MIL-STD-883 for mechanical vibration, NEMA TS2 Transient Voltage Protection
Warranty:	5 year replacement (materials, workmanship, and intensity)

12" Pedestrian LED Module Specifications (Man/Hand, Countdown Timer)

Compliance:	Fully compliant with ITE PTCSI Part-2 LED Pedestrian Traffic Signal Modules specification adopted August 4, 2010
Compliance Verification:	Intertek ETL verified compliance – Product must be listed on the "Directory of LED Modules Certified Products" list located on the ETL website at http://www.intertek.com/lighting/performance-testing/traffic-signals/
Size:	12" x 12"
Configuration:	Full Man/Full Hand Overlay Module, Countdown Timer Module
Lens:	Clear Frosted, UV stabilized scratch resistant polycarbonate, uniform non-pixelated illumination, incandescent appearance
Operating Temperature Range:	-40 to +74C (-40 to +165F)
Operating Voltage Range:	80 to 135 V (60Hz AC)
Power Factor (PF):	> 90%
Total Harmonic Distortion (THD):	< 20%
Minimum Voltage Turn-Off:	35V
Turn-On/Turn-Off Time:	<75 ms
Nominal Power:	5.0-9.0 W (Man), 5.0-11.0W (Hand), 5.0-8.0 W (Timer)
Minimum Maintained Intensity:	1,400 Cd (Hand), 1,400 Cd (Timer), 2,200 Cd (Man)

Standard Conformance:	FCC compliant for electrical noise, MIL-STD-810F for moisture resistance, MIL-STD-883 for mechanical vibration, NEMA TS2 Transient Voltage Protection
Warranty:	5 year replacement (materials, workmanship, and intensity)

16" Pedestrian LED Module Specifications (Man/Hand with Countdown Timer)

Compliance:	Fully compliant with ITE PTCSI Part-2 LED Pedestrian Traffic Signal Modules specification adopted August 4, 2010
Compliance Verification:	Intertek ETL verified compliance – Product must be listed on the "Directory of LED Modules Certified Products" list located on the ETL website at http://www.intertek.com/lighting/performance-testing/traffic-signals/
Size:	16" x 18"
Configuration:	Man/Hand Overlay with Countdown Timer
Lens:	UV stabilized scratch resistant polycarbonate, uniform non-pixelated illumination, incandescent appearance
Operating Temperature Range:	-40 to +74C (-40 to +165F)
Operating Voltage Range:	80 to 135 V (60Hz AC)
Power Factor (PF):	> 90%
Total Harmonic Distortion (THD):	< 20%
Minimum Voltage Turn-Off:	35V
Turn-On/Turn-Off Time:	<75 ms
Nominal Power:	6.0-9.0 W (Man), 7.0-9.0W (Hand), 5.0-8.0 W (Timer)
Minimum Maintained Intensity:	1,400 Cd (Hand), 1,400 Cd (Timer), 2,200 Cd (Man)
Standard Conformance:	FCC compliant for electrical noise, MIL-STD-810F for moisture resistance, MIL-STD-883 for mechanical vibration, NEMA TS2 Transient Voltage Protection

Warranty: 5 year replacement (materials, workmanship, and intensity)

SYSTEM IMPLEMENTATION, EQUIPMENT INTEGRATION AND SUPPORT

The Contractor shall install the CCTV cameras at the locations indicated on the plans.

All furnished components shall be subject to a 30 day burn-in period. During the "burn-in" period, all components shall perform continuously, without any interruption of operation, for a period of thirty days. In the event that there are operational problems during the burn-in period, the burn-in period shall reset back to day one.

After the successful completion of the burn-in period, the system will have completed final acceptance.

Integration of the proposed cameras into the existing ITS system will be by others.

The Contractor shall be responsible for installing the proposed CCTV cameras in accordance with the plans, specifications, and manufacturers recommended practices.

This work will not be paid for separately, but shall be included in the contract bid price.

GUARANTEE FOR ELECTRICAL EQUIPEMENT

The Contractor shall guarantee all electrical equipment, apparatus, materials, and workmanship provided under the contract for a period of twelve (12) months after the date of final inspection according to Article 801.14. This requirement establishes a minimum period and does not change the warranty period of specific items specified elsewhere in the contract.

All instruction sheets required to be furnished by the manufacturer for materials and supplies and for operations shall be delivered to the Engineer prior to the acceptance of the project, with the following warranties and guarantees:

1. The manufacturer's standard written warranty for each piece of electrical equipment or apparatus furnished under the contract.

2. The Contractor's written guarantee that, for a period of twelve (12) months after the date of final inspection of the project, all necessary repairs to or replacement of said warranted equipment, or apparatus shall be made by the Contractor at no cost to the City.

3. The Contractor's written guarantee for satisfactory operation of all electrical systems furnished and constructed under the contract for a period of 6 months after final inspection of the project.

CLOSED-CIRCUIT TELEVISION DOME CAMERA, IP BASED

Description. This work shall consist of furnishing and installing an integrated Closed-Circuit Television (CCTV) Dome Camera Assembly, camera brackets, and all other items required for installation and operation. This assembly shall contain all components identified in the Materials Section and shall be configured as indicated on the plan sheets.

Materials.

The CCTV camera shall be an Axis Model Q6042-E Dome Camera Assembly for integration into the existing District 3 ITS system.

The Contractor shall provide all materials required to install the proposed camera on the proposed sign structure camera mast as shown on the plan sheets.

The Contractor shall submit catalog cut sheets to the Department for all items (mounting brackets, hardware, etc.) that will be utilized for review prior to commencing work.

The Department will program the cameras.

The camera shall meet or exceed the following specifications:

CAMERA

VIDEO:	60 Hz (NTSC), 50 Hz (PAL)
IMAGE SENSOR:	¼" ExView HAD Progressive Scan CCD
LENS:	3.3 – 119 mm, F1.4 – 4.2, autofocus, automatic day/night, horizontal angle of view: 1.7° - 57.2°
MINIMUM ILLUMINATION:	Color: 0.5 lux at 30 IRE F1.4, B/W: 0.008 lux at 30 IRE F1.4
SHUTTER TIME: NTSC:	1/30,000 s to 0.5 s (60 Hz), PAL: 1/30,000 s – 1.5 s (50 Hz)
PAN/TILT/ZOOM:	E-flip, 256 preset positions
	Pan: 360° endless, 0.05 – 450°/s
	Tilt: 220°, 0.05 – 450°/s
	Zoom: 36x optical zoom and 12x digital zoom, total 432x zoom
	Guard tour
	Control queue
	On-screen directional indicator
	Tour Recording

VIDEO

VIDEO COMPRESSION:	H.264 (MPEG-4 Part 10/AVC), Motion JPEG
RESOLUTIONS:	NTSC: 752x480 to 176x120 (60 Hz), PAL: 736x576 to 176x144 (50 Hz)
FRAME RATE (H.264):	Up to 30/25 (NTSC/PAL) fps in all resolutions
FRAME RATE (M-JPEG):	Up to 30/25 (NTSC/PAL) fps in all resolutions

VIDEO STREAMING:	Multi-stream H.264 and Motion JPEG: 3 simultaneous, individually configured streams in max. resolution at 30/25 (NTSC/PAL) fps; more streams if identical or limited in frame rate/resolution; Controllable frame rate and bandwidth; VBR/CBR H.264
IMAGE SETTING:	Wide Dynamic Range (WDR), Electronic Image Stabilization (EIS), manual shutter time, compression, color, brightness, contrast, sharpness, rotation, white balance, exposure control, exposure zones, backlight compensation, fine tuning of behavior at low light, aspect ratio correction, Text and image overlay, privacy mask, image freeze on PTZ
NETWORK	
SECURITY:	Password protection, IP address filtering, HTTPS* encryption, IEEE 802.1X* network access control, digest authentication, user access log
PROTOCOLS:	IPv4/v6, HTTP, HTTPS*, SSL/TLS, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, NTCIP
SYSTEM INTEGRATION	
APPLICATION PROG:	Open API for software integration, including VAPIX® from Axis
INTERFACE:	Communications available at www.axis.com
INTELLIGENT VIDEO:	Video motion detection, auto-tracking, active gate-keeper, Axis platform enabling installation of additional applications
EVENT TRIGGERS:	Video motion detection, Shock detection, Fan, Heater, Temperature, Manual trigger, Autotracking, Moving, PTZ preset, Edge storage events, AXIS Camera Application Platform
EVENT ACTIONS:	File upload: FTP, HTTP, network share and email, Notification: email, HTTP and TCP, PTZ preset, Guard tour, Autotracking, Day/night mode, Video recording to edge storage, Pre- and post-alarm video buffering
BUILT IN INSTALLATION AIDS	Pixel Counter
GENERAL	
CASING:	IP66-, NEMA 4X- and IK10-rated metal casing (aluminum), polycarbonate (PC) clear dome, sunshield (PC/ASA)
MEMORY:	512 MB RAM, 128 MB Flash
POWER CAMERA:	High Power over Ethernet (High PoE), max. 60 W AXIS T8124 High PoE 60 W Midspan 1-port: 100–240 V AC, max. 74 W

CONNECTORS:	RJ-45 for 10BASE-T/100BASE-TX, IP66-rated RJ-45 connector kit included
EDGE STORAGE:	SD/SDHC/SDXC slot supporting memory card up to 64 GB (card not included); support for recording to network share (network-attached storage or file server)
OPERATING CONDITIONS:	Camera unit: -50 °C to 50 °C (-58 °F to 122 °F), Arctic Temperature Control enables camera start-up at temperatures as low as -50 °C (-58 °F), Humidity 10–100% RH (condensing)
APPROVALS:	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, EN 55024, EN 50121-4, IEC 62236-4, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, C-tick AS/NZS CISPR 22 Class A, KCC KN22 Class A, KN24, IEC/EN/UL 60950-1, IEC/EN/UL 60950-22, IEC/EN 60529 IP66, NEMA 250 Type 4X, NEMA TS-2-2003 v 02.06, subsection 2.2.7, 2.2.8, 2.2.9; IEC 62262 IK10, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-78, IEC 60068-2-14, IEC 60068-2-30, IEC 60068-2-6, IEC 60068-2-27, IEC 60068-2-60, ISO 4892-2 Midspan: EN 60950-1, GS, UL, cUL, CE, FCC, VCCI, CB, KCC, UL-AR
WEIGHT:	3.7 kg (8.2 lb.)
INCLUDED	AXIS T8124 High PoE Midspan 1-port, IP66-rated RJ-45
ACCESSORIES:	connector kit, clear dome cover, sunshield, Installation Guide, CD with User's Manual, recording software, installation and management tools, Windows decoder 1-user license
VIDEO SOFTWARE:	AXIS Camera Companion (included)
WARRANTY:	Axis 3-year warranty and AXIS Extended Warranty option

Environmental Enclosure/Housing

The environmental enclosure shall be designed to physically protect the integrated camera from the outdoor environment and moisture via a sealed enclosure. If the option exists in the standard product line of the manufacturer, the assembly shall be supplied with an integral sun shield. The enclosure shall be fully water and weather resistant with a NEMA 4 rating or better.

The camera dome shall be constructed of distortion free acrylic or equivalent material that must not degrade from environmental conditions. The environmental housing shall include a camera-mounting bracket. In addition, the environmental housing shall include a heater, blower, and power surge protector. An integral fitting compatible with a standard 1-1/2 in (38.1 mm) NPT pipe, suitable for outdoor pendant mounting shall also be provided.

The enclosure shall be equipped with a heater controlled by a thermostat. The heater shall turn on when the temperature within the enclosure falls below 40° F (4.4°C). The heater shall turn off when the

temperature exceeds 60°F (15.6°C). The heater will minimize internal fogging of the dome faceplate when the assembly is operated in cold weather.

In addition, a fan shall be provided as part of the enclosure. The fan will provide airflow to ensure effective heating and to minimize condensation.

The enclosure shall be equipped with a hermetically sealed, weatherproof connector, located near the top for external interface with power, video, and control feeds.

CCTV Dome Camera Mounting Supports

The Contractor shall furnish and install an Axis Pole Mount Bracket T91A67 (Part Number 5017-671) for camera installation on traffic signal mast arms and CCTV camera poles and stainless steel banding as required.

Mounting supports shall be configured as shown on the camera support detail plans and as approved by the Engineer. Mount shall be of aluminum construction with enamel or polyester powder coat finish. Braces, supports, and hardware shall be stainless steel. Wind load rating shall be designed for sustained gusts up to 90 mph (145 km/hr), with a 30% gust factor. Load rating shall be designed to support up to 75 lb (334 N). For roof or structural post/light pole mounting, mount shall have the ability to swivel inward for servicing. The mounting flange shall use standard 1-1/2 inch (38.1 mm) NPT pipe thread.

Connecting Cables

The Contractor shall furnish and install outdoor rated, shielded CAT 5E cable. The cable shall be terminated using the IP66 rated RJ-45 connector on the camera end and a shielded RJ-45 connector in the cabinet. The Contractor shall test the cable prior after termination.

Cable will be paid for separately under the pay item CAT 5 ETHERNET CABLE.

Construction Requirements.

General

The Contractor shall prepare a shop drawing detailing the complete CCTV Dome Camera Assembly and installation of all components to be supplied for approval of the Engineer. Particular emphasis shall be given to the cabling and the interconnection of all of the components.

The Contractor shall install the CCTV dome camera assembly at the locations indicated in the Plans. The CCTV Dome Camera Assembly shall be mounted on a pole, wall, or other structure.

Testing

The Contractor shall test each installed CCTV Dome Camera Assembly. The test shall be conducted from the field cabinet using the standard communication protocol and a laptop computer. The Contractor shall verify that the camera can be fully exercised and moved through the entire limits of Pan, Tilt, Zoom, Focus and Iris adjustments, using both the manual control and presets. The Contractor shall maintain a log of all testing and the results. A representative of the Contractor and a representative of the Engineer shall sign the log as witnessing the results. Records of all tests shall be submitted to the Engineer prior to accepting the installation.

Method of Measurement. The closed circuit television dome camera bid item will be measured for payment by the actual number of CCTV dome camera assemblies furnished, installed, tested, and accepted.

Basis of Payment. Payment will be made at the contract unit price for each CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED including all equipment, material, testing, documentation, and labor detailed in the contract documents for this bid item.

CAT 5 ETHERNET CABLE

This work shall consist of furnishing and installing an outdoor rated CAT5E cable in conduits, handholes, and poles. This work shall be in accordance with Sections 873, 1076, and 1088 of the Standard Specifications except as modified herein.

The cable shall be rated for outdoor use and conform to the following specifications:

- Outdoor CMX Rated Jacket (climate/oil resistant jacket)
- UV Resistant Outer Jacket Material (PVC-UV, UV Stabilized)
- Outer Jacket Ripcord
- Designed For Outdoor Above- Ground or Conduit Duct applications
- Cat5E rated to 350MHz (great for 10/100 or even 1000mbps Gigabit Ethernet)
- Meets TIA/EIA 568b.2 Standard
- Unshielded Twist Pair
- 4 Pairs, 8 Conductors
- 24AWG, Solid Core Copper
- UL 444 ANSI TIA/EIA-568.2 ISO/IEC 11801
- RoHS Compliant
- Flooded (Water Blocking Gel)

Basis of Payment: This work will be paid for at the contract unit price per foot for CAT 5 ETHERNET CABLE, which shall be payment in full for all labor, equipment, and materials required to provide and install the cable described above, complete.

FIBER OPTIC DROP AND REPEAT SWITCH

The Contractor shall furnish a fiber optic drop and repeat switch complete with the accessories specified below and deliver it to the Department.

The fiber optic drop and repeat switch shall meet or exceed the following minimum specifications:

Approved Models: Antaira Technologies Model LNX-602-M-T (6-Port (4-port 10/100TX + 2-port 100FX) Slim Industrial Ethernet Switch, Multi-Mode Fiber 2 Km, Wide Operating Temperature) or approved equal.

Features:

- RJ-45 Port Supports Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- Back-Plane (Switching Fabric): 1Gbps

- Wide-Range Redundant Power Design
- Power Polarity Reserve Protect
- Overload Current Resettable Fuse Present
- Provides Broadcast Storm Protection
- Provides EFT Protection 3000 VDC for Power Line
- Supports 4000 VDC Ethernet ESD Protection
- IP30 Rugged Aluminum Case Design
- DIN-Rail and Wall Mount Design

Standard:
- IEEE 802.3 10BaseT Ethernet
- IEEE 802.3u 100BaseTX Fast Ethernet
- IEEE 802.3x Flow Control and Back-Pressure

Protocol:
- CSMA/CD

Switch Architecture:
- Store and Forward

Transfer Rate:
- 14,880pps for Ethernet Port
- 148,800pps for Fast Ethernet Port

MAC Address:
- 1K MAC Address Table

Memory Buffer:
- 512 Kbits

LED:
- Unit: Power 1, Power 2, Fault
- Port: Link/Activity, Full-Duplex/Collision

Connector:
- LNX-602A: 4 x 10/100TX RJ-45 with Auto MDI/MDI-X Function
- 2 x 100M Fiber ST Type Connector

Network Cable:
- 10BaseT: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m)
- 100BaseTX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)

Optical Cable:
- (Multi-Mode): 50/125μm ~ 62.5/125μm
- Available Distance: 2KM (Multi-Mode),
- Wavelength: 1310nm (Multi-Mode)

Back-Plane:	• LNX-602A: 1.2 Gbps
Packet Throughput Ability:	• LNX-602A: 1.488Mpps @ 64bytes
Power Supply:	• DC 12 ~ 48V, Redundant Power with Polarity Reverse Protect Function and Removable Terminal Block
Power Consumption:	• LNX-602A: 6.41 Watts
Reverse Polarity Protection:	• Present
Overload Current Protection:	• Present
Mechanical:	• Casing: IP30 Metal Case • Dimension (W x H x D): 30 x 140 x 95 mm (1.18 x 5.51 x 3.74 in.) • Installation: DIN-Rail/Wall Mountable
Weight:	• Unit Weight: 1 lbs. • Shipping Weight: 1.41 lbs.
Operation Temperature:	• Wide Operating Temperature: -40° C to 80° C (-40° F to 176° F)
Operation Humidity:	• 5% to 95% (Non-condensing)
Storage Temperature:	• -40° C to 85° C
EMI:	• FCC Class A • CE EN6100-4-2/EN6100-4-3/EN6100-4-4/EN6100-4-5/EN6100-4-6 • /EN6100-4-8/EN6100-4-11/EN6100-4-12/EN6100-6-2/EN6100-6-4

Safety:	• UL, cUL, CE EN60950-1
Stability Testing:	• Shock: IEC60068-2-27 • Free Fall: IEC60068-2-32 • Vibration: IEC60068-2-6
Warranty:	• 5-Year Warranty
Included Accessories:	• Mounting Brackets • Barrel Connector Cable • CD Manual/Software

The following items shall also be included with each switch:

- Power Supply – Qty. 1 (Antaira Model DR-45, 45 Watt, 12 Volt DC, Industrial Din-Rail Power Supply or Approved Equal)
- Fiber Optic Patch Cables – Qty. 2 (multimode fiber, 1 meter length, duplex, ST to SC connectors)
- Fiber Optic Patch Cables – Qty. 1 (multimode fiber, 1 meter length, duplex, ST to ST connectors)

Basis of Payment: This work will be paid for at the contract unit price per each for FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH which price shall be payment in full for all labor, materials, and equipment required to provide the fiber optic Ethernet drop and repeat switch and associated equipment and deliver it to the Department.

Meter Pedestal and Lighting Controller Combination Unit, Special

This work shall consist of furnishing, transporting, and installing the Lighting Controller Combination Unit and all electrical cable connections in the unit in accordance with Section 825 of the Standard Specifications, the plans, and as directed by the Engineer.

The Controller Combination Unit shall be manufactured and assembled by Milbank (Catalog #CP3B51C10P22BK25L1, 120/240 VAC, 1-phase, 3 wire; output 60 Amp, Rainproof – Type3R, Steel Enclosure, painted Ebony 334 Black) or approved equivalent. Ameren approval of meter components must be satisfied.

Unit exterior will be free of defects and have no sharp edges.

Basis of Payment

Work will be paid for at the Contract Unit Price for EACH for SERVICE INSTALALTION of the type specified, which prices shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

Work will be paid for at the Contract Unit Price per EACH for CONCRETE HANDHOLE of the type specified, which prices shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

Work will be paid for at the Contract Unit Price per LINEAR FOOT for CONDUIT (3") and wire of the type specified, which prices shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

Work will be paid for at the Contract Unit Price per LINEAR FOOT for CONDUIT (2") and wire of the type specified, which prices shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

Work will be paid for at the Contract Unit Price per EACH of CONTROLLER FOUNDATION, for the lighting controller foundation specified in the plans, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

Work will be paid for at the Contract Unit Price per EACH of METER PEDESTAL AND LIGHTING CONTROLLER COMBINATION UNIT, SPECIAL for the combination unit specified in the plans, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

BDE SPECIAL PROVISIONS
For the January 16 and March 6, 2015 Lettings

The following special provisions indicated by an "x" are applicable to this contract and will be included by the Project Development and Implementation Section of the BD&E. An * indicates a new or revised special provision for the letting.

File Name	#		Special Provision Title	Effective	Revised
80240	1		Above Grade Inlet Protection	July 1, 2009	Jan. 1, 2012
80099	2		Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2014
80274	3		Aggregate Subgrade Improvement	April 1, 2012	Jan. 1, 2013
80192	4	✓	Automated Flagger Assistance Device	Jan. 1, 2008	
80173	5	✓	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2013
80241	6		Bridge Demolition Debris	July 1, 2009	
5026I	7		Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
5048I	8		Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
5049I	9		Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
5053I	10		Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
* 80310	11		Coated Galvanized Steel Conduit	Jan. 1, 2013	Jan. 1, 2015
* 80341	12		Coilable Nonmetallic Conduit	Aug. 1, 2014	Jan. 1, 2015
80198	13		Completion Date (via calendar days)	April 1, 2008	
80199	14		Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80293	15		Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	April 1, 2014
80294	16		Concrete Box Culverts with Skews ≤ 30 Degrees Regardless of Design Fill and Skews > 30 Degrees with Design Fills > 5 Feet	April 1, 2012	April 1, 2014
80311	17		Concrete End Sections for Pipe Culverts	Jan. 1, 2013	
80334	18	✓	Concrete Gutter, Curb, Median, and Paved Ditch	April 1, 2014	Aug. 1, 2014
80277	19	✓	Concrete Mix Design – Department Provided	Jan. 1, 2012	Jan. 1, 2014
80261	20		Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
80335	21		Contract Claims	April 1, 2014	
80029	22		Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Aug. 2, 2011
80265	23	✓	Friction Aggregate	Jan. 1, 2011	Nov. 1, 2014
80229	24	✓	Fuel Cost Adjustment	April 1, 2009	July 1, 2009
80329	25		Glare Screen	Jan. 1, 2014	
80304	26		Grooving for Recessed Pavement Markings	Nov. 1, 2012	Aug. 1, 2014
80246	27	✓	Hot-Mix Asphalt – Density Testing of Longitudinal Joints	Jan. 1, 2010	April 1, 2012
80322	28	✓	Hot-Mix Asphalt – Mixture Design Composition and Volumetric Requirements	Nov. 1, 2013	Nov. 1, 2014
80323	29	✓	Hot-Mix Asphalt – Mixture Design Verification and Production	Nov. 1, 2013	Nov. 1, 2014
80347	30		Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Nov. 1, 2014	
80348	31	✓	Hot-Mix Asphalt – Prime Coat	Nov. 1, 2014	
80315	32		Insertion Lining of Culverts	Jan. 1, 2013	Nov. 1, 2013
* 80351	33		Light Tower	Jan. 1, 2015	
80336	34		Longitudinal Joint and Crack Patching	April 1, 2014	
80324	35		LRFD Pipe Culvert Burial Tables	Nov. 1, 2013	Nov. 1, 2014
80325	36	✓	LRFD Storm Sewer Burial Tables	Nov. 1, 2013	Nov. 1, 2014
80045	37		Material Transfer Device	June 15, 1999	Aug. 1, 2014
* 80342	38		Mechanical Side Tie Bar Inserter	Aug. 1, 2014	Jan. 1, 2015
80165	39		Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
80337	40		Paved Shoulder Removal	April 1, 2014	
80349	41		Pavement Marking Blackout Tape	Nov. 1, 2014	
80298	42		Pavement Marking Tape Type IV	April 1, 2012	
80254	43	✓	Pavement Patching	Jan. 1, 2010	

File Name	#		Special Provision Title	Effective	Revised
* 80352	44	✓	Pavement Striping - Symbols	Jan. 1, 2015	
* 80353	45		Portland Cement Concrete Inlay or Overlay	Jan. 1, 2015	
80338	46	✓	Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	April 1, 2014	
80343	47	✓	Precast Concrete Handhole	Aug. 1, 2014	
80300	48		Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	
80328	49		Progress Payments	Nov. 2, 2013	
3426I	50		Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157	51		Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
80306	52	✓	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	April 1, 2014
80350	53		Retroreflective Sheeting for Highway Signs	Nov. 1, 2014	
80327	54		Reinforcement Bars	Nov. 1, 2013	
80344	55		Rigid Metal Conduit	Aug. 1, 2014	
* 80354	56	✓	Sidewalk, Corner, or Crosswalk Closure	Jan. 1, 2015	
80340	57		Speed Display Trailer	April 2, 2014	
80127	58		Steel Cost Adjustment	April 2, 2004	April 1, 2009
80317	59		Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	
* 80355	60		Temporary Concrete Barrier	Jan. 1, 2015	
80301	61		Tracking the Use of Pesticides	Aug. 1, 2012	
* 80356	62		Traffic Barrier Terminals Type 6 or 6B	Jan. 1, 2015	
20338	63		Training Special Provisions	Oct. 15, 1975	
80318	64		Traversable Pipe Grate	Jan. 1, 2013	April 1, 2014
80345	65		Underpass Luminaire	Aug. 1, 2014	
* 80357	66		Urban Half Road Closure with Mountable Median	Jan. 1, 2015	
80346	67		Waterway Obstruction Warning Luminaire	Aug. 1, 2014	
80288	68	✓	Warm Mix Asphalt	Jan. 1, 2012	Nov. 1, 2014
80302	69		Weekly DBE Trucking Reports	June 2, 2012	
80289	70		Wet Reflective Thermoplastic Pavement Marking	Jan. 1, 2012	
80071	71		Working Days	Jan. 1, 2002	

The following special provisions are in the 2015 Supplemental Specifications and Recurring Special Provisions:

File Name	Special Provision Title	New Location	Effective	Revised
80292	Coarse Aggregate in Bridge Approach Slabs/Footings	Articles 1004.01(b) and 1004.02(f)	April 1, 2012	April 1, 2013
80303	Granular Materials	Articles 1003.04, 1003.04(c), and 1004.05(c)	Nov. 1, 2012	
80330	Pavement Marking for Bike Symbol	Article 780.14	Jan. 1, 2014	
80331	Payrolls and Payroll Records	Recurring CS #1 and #5	Jan. 1, 2014	
80332	Portland Cement Concrete – Curing of Abutments and Piers	Article 1020.13	Jan. 1, 2014	
80326	Portland Cement Concrete Equipment	Article 1103.03(a)(5)	Nov. 1, 2013	
80281	Quality Control/Quality Assurance of Concrete Mixtures	Recurring CS #31	Jan. 1, 2012	Jan. 1, 2014
80283	Removal and Disposal of Regulated Substances	Articles 669.01, 669.08, 669.09, 669.14, and 669.16	Jan. 1, 2012	Nov. 2, 2012
80319	Removal and Disposal of Surplus Materials	Article 202.03	Nov. 2, 2012	
80307	Seeding	Article 250.07	Nov. 1, 2012	
80339	Stabilized Subbase	Article 312.06	April 1, 2014	
80333	Traffic Control Setup and Removal Freeway/Expressway	Articles 701.18(l) and 701.19(a)	Jan. 1, 2014	

AUTOMATED FLAGGER ASSISTANCE DEVICES (BDE)

Effective: January 1, 2008

Description. This work shall consist of furnishing and operating automated flagger assistance devices (AFADs) as part of the work zone traffic control and protection for two-lane highways where two-way traffic is maintained over one lane of pavement. Use of these devices shall be at the option of the Contractor.

Equipment. AFADs shall be according to the FHWA memorandum, "MUTCD - Revised Interim Approval for the use of Automated Flagger Assistance Devices in Temporary Traffic Control Zones (IA-4R)", dated January 28, 2005. The devices shall be mounted on a trailer or a moveable cart and shall meet the requirements of NCHRP 350, Category 4.

The AFAD shall be the Stop/Slow type. This device uses remotely controlled "STOP" and "SLOW" signs to alternately control right-of-way.

Signs for the AFAD shall be according to Article 701.03 of the Standard Specifications and the MUTCD. The signs shall be 24 x 24 in. (600 x 600 mm) having an octagon shaped "STOP" sign on one side and a diamond shaped "SLOW" sign on the opposite side. The letters on the signs shall be 8 in. (200 mm) high. If the "STOP" sign has louvers, the full sign face shall be visible at a distance of 50 ft (15 m) and greater.

The signs shall be supplemented with one of the following types of lights.

(a) Flashing Lights. When flashing lights are used, white or red flashing lights shall be mounted within the "STOP" sign face and white or yellow flashing lights within the "SLOW" sign face.

(b) Stop and Warning Beacons. When beacons are used, a stop beacon shall be mounted 24 in. (600 mm) or less above the "STOP" sign face and a warning beacon mounted 24 in. (600 mm) or less above, below, or to the side of the "SLOW" sign face. As an option, a Type B warning light may be used in lieu of the warning beacon.

A "WAIT ON STOP" sign shall be placed on the right hand side of the roadway at a point where drivers are expected to stop. The sign shall be 24 x 30 in. (600 x 750 mm) with a black legend and border on a white background. The letters shall be at least 6 in. (150 mm) high.

This device may include a gate arm or mast arm that descends to a horizontal position when the "STOP" sign is displayed and rises to a vertical position when the "SLOW" sign is displayed. When included, the end of the arm shall reach at least to the center of the lane being controlled. The arm shall have alternating red and white retroreflective stripes, on both sides, sloping downward at 45 degrees toward the side on which traffic will pass. The stripes shall be 6 in. (150 mm) in width and at least 2 in. (50 mm) in height.

Flagging Requirements. Flaggers and flagging requirements shall be according to Article 701.13 of the Standard Specifications and the following.

AFADs shall be placed at each end of the traffic control, where a flagger is shown on the plans. The flaggers shall be able to view the face of the AFAD and approaching traffic during operation.

To stop traffic, the "STOP" sign shall be displayed, the corresponding lights/beacon shall flash, and when included, the gate arm shall descend to a horizontal position. To permit traffic to move, the "SLOW" sign shall be displayed, the corresponding lights/beacon shall flash, and when included, the gate arm shall rise to a vertical position.

If used at night, the AFAD location shall be illuminated according to Section 701 of the Standard Specifications.

When not in use, AFADs will be considered nonoperating equipment and shall be stored according to Article 701.11 of the Standard Specifications.

Basis of Payment. This work will not be paid for separately but shall be considered as included in the cost of the various traffic control items included in the contract.

80192

BITUMINOUS MATERIALS COST ADJUSTMENTS (BDE) (RETURN FORM WITH BID)

Effective: November 2, 2006
Revised: August 1, 2013

Description. Bituminous material cost adjustments will be made to provide additional compensation to the Contractor, or credit to the Department, for fluctuations in the cost of bituminous materials when optioned by the Contractor. The adjustments shall apply to permanent and temporary hot-mix asphalt (HMA) mixtures, bituminous surface treatments (cover and seal coats), and preventative maintenance type surface treatments. The adjustments shall not apply to bituminous prime coats, tack coats, crack filling/sealing, or joint filling/sealing.

The bidder shall indicate on the attached form whether or not this special provision will be part of the contract and submit the completed form with his/her bid. Failure to submit the form, or failure to fill out the form completely, shall make this contract exempt of bituminous materials cost adjustments.

Method of Adjustment. Bituminous materials cost adjustments will be computed as follows.

$CA = (BPI_P - BPI_L) \times (\%AC_V / 100) \times Q$

Where: CA = Cost Adjustment, $.
BPI_P = Bituminous Price Index, as published by the Department for the month the work is performed, $/ton ($/metric ton).
BPI_L = Bituminous Price Index, as published by the Department for the month prior to the letting, $/ton ($/metric ton).
$\%AC_V$ = Percent of virgin Asphalt Cement in the Quantity being adjusted. For HMA mixtures, the % AC_V will be determined from the adjusted job mix formula. For bituminous materials applied, a performance graded or cutback asphalt will be considered to be 100% AC_V and undiluted emulsified asphalt will be considered to be 65% AC_V.
Q = Authorized construction Quantity, tons (metric tons) (see below).

For HMA mixtures measured in square yards: Q, tons = A x D x (G_{mb} x 46.8) / 2000. For HMA mixtures measured in square meters: Q, metric tons = A x D x (G_{mb} x 1) / 1000. When computing adjustments for full-depth HMA pavement, separate calculations will be made for the binder and surface courses to account for their different G_{mb} and % AC_V.

For bituminous materials measured in gallons: Q, tons = V x 8.33 lb/gal x SG / 2000
For bituminous materials measured in liters: Q, metric tons = V x 1.0 kg/L x SG / 1000

Where: A = Area of the HMA mixture, sq yd (sq m).
D = Depth of the HMA mixture, in. (mm).
G_{mb} = Average bulk specific gravity of the mixture, from the approved mix design.
V = Volume of the bituminous material, gal (L).

SG = Specific Gravity of bituminous material as shown on the bill of lading.

Basis of Payment. Bituminous materials cost adjustments may be positive or negative but will only be made when there is a difference between the BPI_L and BPI_P in excess of five percent, as calculated by:

Percent Difference = $\{(BPI_L - BPI_P) \div BPI_L\} \times 100$

Bituminous materials cost adjustments will be calculated for each calendar month in which applicable bituminous material is placed; and will be paid or deducted when all other contract requirements for the work placed during the month are satisfied. The adjustments shall not apply during contract time subject to liquidated damages for completion of the entire contract.

Return With Bid

ILLINOIS DEPARTMENT OF TRANSPORTATION

OPTION FOR BITUMINOUS MATERIALS COST ADJUSTMENTS

The bidder shall submit this completed form with his/her bid. Failure to submit the form, or failure to fill out the form completely, shall make this contract exempt of bituminous materials cost adjustments. After award, this form, when submitted, shall become part of the contract.

Contract No.: _____

Company Name: _____

Contractor's Option:

Is your company opting to include this special provision as part of the contract?

Yes ☐ No ☐

Signature: _____ **Date:** _____

80173

CONCRETE GUTTER, CURB, MEDIAN, AND PAVED DITCH (BDE)

Effective: April 1, 2014
Revised: August 1, 2014

Add the following to Article 606.02 of the Standard Specifications:

"(i) Polyurethane Joint Sealant ..... 1050.04"

Revise the fifth paragraph of Article 606.07 of the Standard Specifications to read:

"Transverse contraction and longitudinal construction joints shall be sealed according to Article 420.12, except transverse joints in concrete curb and gutter shall be sealed with polysulfide or polyurethane joint sealant."

Add the following to Section 1050 of the Standard Specifications:

"**1050.04 Polyurethane Joint Sealant.** The joint sealant shall be a polyurethane sealant, Type S, Grade NS, Class 25 or better, Use T (T_1 or T_2), according to ASTM C 920."

80334

CONCRETE MIX DESIGN – DEPARTMENT PROVIDED (BDE)

Effective: January 1, 2012
Revised: January 1, 2014

For the concrete mix design requirements in Article 1020.05(a) of the Supplemental Specifications and Recurring Special Provisions, the Contractor has the option to request the Engineer determine mix design material proportions for Class PV, PP, RR, BS, DS, SC, and SI concrete. A single mix design for each class of concrete will be provided. Acceptance by the Contractor to use the mix design developed by the Engineer shall not relieve the Contractor from meeting specification requirements.

80277

FRICTION AGGREGATE (BDE)

Effective: January 1, 2011
Revised: November 1, 2014

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

Use	Mixture	Aggregates Allowed
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/]
HMA High ESAL	D Surface and Leveling Binder IL-9.5 SMA Ndesign 50 Surface	Allowed Alone or in Combination [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/]
		Other Combinations Allowed: *Up to...* — *With...* 25% Limestone — Dolomite

Use	Mixture	Aggregates Allowed	
		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/]: Crushed Gravel Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete[3/] 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
		75% Crushed Gravel 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>:	

Use	Mixture	Aggregates Allowed	
		Up to...	*With...*
		50% Crushed Gravel, 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 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."

80265

FUEL COST ADJUSTMENT (BDE) (RETURN FORM WITH BID)

Effective: April 1, 2009
Revised: July 1, 2009

Description. Fuel cost adjustments will be made to provide additional compensation to the Contractor, or a credit to the Department, for fluctuations in fuel prices when optioned by the Contractor. The bidder shall indicate on the attached form whether or not this special provision will be part of the contract and submit the completed form with his/her bid. Failure to submit the form or failure to indicate contract number, company name and sign and date the form shall make this contract exempt of fuel cost adjustments for all categories of work. Failure to indicate "Yes" for any category of work will make that category of work exempt from fuel cost adjustment.

General. The fuel cost adjustment shall apply to contract pay items as grouped by category. The adjustment shall only apply to those categories of work checked "Yes", and only when the cumulative plan quantities for a category exceed the required threshold. Adjustments to work items in a category, either up or down, and work added by adjusted unit price will be subject to fuel cost adjustment only when the category representing the added work was subject to the fuel cost adjustment. Added work paid for by time and materials will not be subject to fuel cost adjustment. Category descriptions and thresholds for application and the fuel usage factors which are applicable to each are as follows:

(a) Categories of Work.

(1) Category A: Earthwork. Contract pay items performed under Sections 202, 204, and 206 including any modified standard or nonstandard items where the character of the work to be performed is considered earthwork. The cumulative total of all applicable item plan quantities shall exceed 25,000 cu yd (20,000 cu m). Included in the fuel usage factor is a weighted average 0.10 gal/cu yd (0.50 liters/cu m) factor for trucking.

(2) Category B: Subbases and Aggregate Base Courses. Contract pay items constructed under Sections 311, 312 and 351 including any modified standard or nonstandard items where the character of the work to be performed is considered construction of a subbase or aggregate, stabilized or modified base course. The cumulative total of all applicable item plan quantities shall exceed 5000 tons (4500 metric tons). Included in the fuel usage factor is a 0.60 gal/ton (2.50 liters/metric ton) factor for trucking.

(3) Category C: Hot-Mix Asphalt (HMA) Bases, Pavements and Shoulders. Contract pay items constructed under Sections 355, 406, 407 and 482 including any modified standard or nonstandard items where the character of the work to be performed is considered HMA bases, pavements and shoulders. The cumulative total of all applicable item plan quantities shall exceed 5000 tons (4500 metric tons). Included in the fuel usage factor is 0.60 gal/ton (2.50 liters/metric ton) factor for trucking.

(4) Category D: Portland Cement Concrete (PCC) Bases, Pavements and Shoulders. Contract pay items constructed under Sections 353, 420, 421 and 483 including any modified standard or nonstandard items where the character of the work to be performed is considered PCC base, pavement or shoulder. The cumulative total of all applicable item plan quantities shall exceed 7500 sq yd (6000 sq m). Included in the fuel usage factor is 1.20 gal/cu yd (5.94 liters/cu m) factor for trucking.

(5) Category E: Structures. Structure items having a cumulative bid price that exceeds $250,000 for pay items constructed under Sections 502, 503, 504, 505, 512, 516 and 540 including any modified standard or nonstandard items where the character of the work to be performed is considered structure work when similar to that performed under these sections and not included in categories A through D.

(b) Fuel Usage Factors.

English Units

Category	Factor	Units
A - Earthwork	0.34	gal / cu yd
B – Subbase and Aggregate Base courses	0.62	gal / ton
C – HMA Bases, Pavements and Shoulders	1.05	gal / ton
D – PCC Bases, Pavements and Shoulders	2.53	gal / cu yd
E – Structures	8.00	gal / $1000

Metric Units

Category	Factor	Units
A - Earthwork	1.68	liters / cu m
B – Subbase and Aggregate Base courses	2.58	liters / metric ton
C – HMA Bases, Pavements and Shoulders	4.37	liters / metric ton
D – PCC Bases, Pavements and Shoulders	12.52	liters / cu m
E – Structures	30.28	liters / $1000

(c) Quantity Conversion Factors.

Category	Conversion	Factor
B	sq yd to ton	0.057 ton / sq yd / in depth
	sq m to metric ton	0.00243 metric ton / sq m / mm depth
C	sq yd to ton	0.056 ton / sq yd / in depth
	sq m to metric ton	0.00239 m ton / sq m / mm depth
D	sq yd to cu yd	0.028 cu yd / sq yd / in depth
	sq m to cu m	0.001 cu m / sq m / mm depth

Method of Adjustment. Fuel cost adjustments will be computed as follows.

$CA = (FPI_P - FPI_L) \times FUF \times Q$

Where: CA = Cost Adjustment, $
FPI_P = Fuel Price Index, as published by the Department for the month the work is performed, $/gal ($/liter)
FPI_L = Fuel Price Index, as published by the Department for the month prior to the letting, $/gal ($/liter)
FUF = Fuel Usage Factor in the pay item(s) being adjusted
Q = Authorized construction Quantity, tons (metric tons) or cu yd (cu m)

The entire FUF indicated in paragraph (b) will be used regardless of use of trucking to perform the work.

Progress Payments. Fuel cost adjustments will be calculated for each calendar month in which applicable work is performed; and will be paid or deducted when all other contract requirements for the items of work are satisfied. The adjustments shall not apply during contract time subject to liquidated damages for completion of the entire contract.

Final Quantities. Upon completion of the work and determination of final pay quantities, an adjustment will be prepared to reconcile any differences between estimated quantities previously paid and the final quantities. The value for the balancing adjustment will be based on a weighted average of FPI_P and Q only for those months requiring the cost adjustment. The cost adjustment will be applicable to the final measured quantities of all applicable pay items.

Basis of Payment. Fuel cost adjustments may be positive or negative but will only be made when there is a difference between the FPI_L and FPI_P in excess of five percent, as calculated by:

$$\text{Percent Difference} = \{(FPI_L - FPI_P) \div FPI_L\} \times 100$$

Return With Bid

ILLINOIS DEPARTMENT OF TRANSPORTATION

OPTION FOR FUEL COST ADJUSTMENT

The bidder shall submit this completed form with his/her bid. Failure to submit the form or properly complete contract number, company name, and sign and date the form shall make this contract exempt of fuel cost adjustments in all categories. Failure to indicate "Yes" for any category of work at the time of bid will make that category of work exempt from fuel cost adjustment. After award, this form, when submitted shall become part of the contract.

Contract No.: _____

Company Name: _____

Contractor's Option:

Is your company opting to include this special provision as part of the contract plans for the following categories of work?

Category A Earthwork.	Yes	☐
Category B Subbases and Aggregate Base Courses	Yes	☐
Category C HMA Bases, Pavements and Shoulders	Yes	☐
Category D PCC Bases, Pavements and Shoulders	Yes	☐
Category E Structures	Yes	☐

Signature: _____ **Date:** _____

80229

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

Effective: January 1, 2010
Revised: April 1, 2012

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 ten feet 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%	91.0%
IL-9.5, IL-12.5	Ndesign ≥ 90	92.0 – 96.0%	90.0%
IL-9.5,IL-9.5L, IL-12.5	Ndesign < 90	92.5 – 97.4%	90.0%
IL-19.0, IL-25.0	Ndesign ≥ 90	93.0 – 96.0%	90.0%
IL-19.0, IL-19.0L, IL-25.0	Ndesign < 90	93.0 – 97.4%	90.0%

SMA	Ndesign = 50 & 80	93.5 – 97.4%	91.0%
All Other	Ndesign = 30	93.0 - 97.4%	90.0%"

80246

HOT-MIX ASPHALT – MIXTURE DESIGN COMPOSITION AND VOLUMETRIC REQUIREMENTS (BDE)

Effective: November 1, 2013
Revised: November 1, 2014

Revise the last sentence of the first paragraph of Article 312.05 of the Standard Specifications to read:

"The minimum compacted thickness of each lift shall be according to Article 406.06(d)."

Delete the minimum compacted lift thickness table in Article 312.05 of the Standard Specifications.

Revise the second paragraph of Article 355.02 of the Standard Specifications to read:

"The mixture composition used shall be IL-19.0."

Revise Article 355.05(a) of the Standard Specifications to read:

"(a) The top lift thickness shall be 2 1/4 in. (60 mm) for mixture composition IL-19.0."

Revise the Leveling Binder table and second paragraph of Article 406.05(c) of the Standard Specifications to read:

"Leveling Binder	
Nominal, Compacted, Leveling Binder Thickness, in. (mm)	Mixture Composition
≤ 1 1/4 (32)	IL-4.75, IL-9.5, or IL-9.5L
> 1 1/4 to 2 (32 to 50)	IL-9.5 or IL-9.5L

The density requirements of Article 406.07(c) shall apply for leveling binder, machine method, when the nominal compacted thickness is: 3/4 in. (19 mm) or greater for IL-4.75 mixtures; and 1 1/4 in. (32 mm) or greater for IL-9.5 and IL-9.5L mixtures."

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)
IL-9.5, IL-9.5L	1 1/4 (32)
SMA-12.5	2 (51)
IL-19.0, IL-19.0L	2 1/4 (57)"

Revise the ninth paragraph of Article 406.14 of the Standard Specifications to read:

"Test strip mixture will be evaluated at the contract unit price according to the following."

Revise Article 406.14(a) of the Standard Specifications to read:

"(a) If the HMA placed during the initial test strip is determined to be acceptable the mixture will be paid for at the contract unit price."

Revise Article 406.14(b) of the Standard Specifications to read:

"(b) If the HMA placed during the initial test strip (1) is determined to be unacceptable to remain in place by the Engineer, and (2) was not produced within 2.0 to 6.0 percent air voids or within the individual control limits of the JMF according to the Department's test results, the mixture will not be paid for and shall be removed at the Contractor's expense. An additional test strip shall be constructed and the mixture will be paid for in full, if produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF."

Revise Article 406.14(c) of the Standard Specifications to read:

"(c) If the HMA placed during the initial test strip (1) is determined to be unacceptable to remain in place by the Engineer, and (2) was produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF according to the Department's test results, the mixture shall be removed. Removal will be paid according to Article 109.04. This initial mixture will be paid for at the contract unit price. An additional test strip shall be constructed and the mixture will be paid for in full, if produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF."

Delete Article 406.14(d) of the Standard Specifications.

Delete Article 406.14(e) of the Standard Specifications.

Delete the last sentence of Article 407.06(c) of the Standard Specifications.

Revise Note 2. of Article 442.02 of the Standard Specifications to read:

"Note 2. The mixture composition of the HMA used shall be IL-19.0 binder, designed with the same Ndesign as that specified for the mainline pavement."

Delete the second paragraph of Article 482.02 of the Standard Specifications.

Revise the first sentence of the sixth paragraph of Article 482.05 of the Standard Specifications to read:

"When the mainline HMA binder and surface course mixture option is used on resurfacing projects, shoulder resurfacing widths of 6 ft (1.8 m) or less may be placed simultaneously with the adjacent traffic lane for both the binder and surface courses."

Revise the second sentence of the fourth paragraph of Article 601.04 of the Standard Specifications to read:

"The top 5 in. (125 mm) of the trench shall be backfilled with an IL-19.0L Low ESAL mixture meeting the requirements of Section 1030 and compacted to a density of not less than 90 percent of the theoretical density."

Revise the second sentence of the fifth paragraph of Article 601.04 of the Standard Specifications to read:

"The top 8 in. (200 mm) of the trench shall be backfilled with an IL-19.0L Low ESAL mixture meeting the requirements of Section 1030 and compacted to a density of not less than 90 percent of the theoretical density."

Revise Article 1003.03(c) of the Standard Specifications to read:

"(c) Gradation. The fine aggregate gradation for all HMA shall be FA 1, FA 2, FA 20, FA 21, or FA 22. The fine aggregate gradation for SMA shall be FA/FM 20.

For mixture IL-4.75 and surface mixtures with an Ndesign = 90, at least 50 percent of the required fine aggregate fraction shall consist of either stone sand, slag sand, or steel slag meeting the FA 20 gradation.

For mixture IL-19.0, Ndesign = 90 the fine aggregate fraction shall consist of at least 67 percent manufactured sand meeting FA 20 or FA 22 gradation. For mixture IL-19.0, Ndesign = 50 or 70 the fine aggregate fraction shall consist of at least 50 percent manufactured sand meeting FA 20 or FA 22 gradation. The manufactured sand shall be stone sand, slag sand, steel slag sand, or combinations thereof.

Gradation FA 1, FA 2, or FA 3 shall be used when required for prime coat aggregate application for HMA."

Remove footnote 3/ from the tables and at the end of the tables in Article 1004.01(c) of the Standard Specifications.

Delete the last sentence of the first paragraph of Article 1004.03(b) of the Standard Specifications.

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 and/or CA 13 CA 16
HMA Low ESAL	IL-19.0L IL-9.5L Stabilized Subbase or Shoulders	CA 11 1/ CA 16

1/ CA 16 or CA 13 may be blended with the gradations listed."

Revise the nomenclature table in Article 1030.01 of the Standard Specifications to read:

"High ESAL	IL-19.0 binder; IL-9.5 surface
Low ESAL	IL-19.0L binder; IL-9.5L surface; Stabilized Subbase (HMA)1/; HMA Shoulders2/

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.

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.

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 12.5 4/		IL-9.5 mm		IL-4.75 mm	
	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	90	99		100		100
3/8 in. (9.5 mm)			50	85	90	100		100
#4 (4.75 mm)	40	60	20	40	32	69	90	100
#8 (2.36 mm)	26	42	16	24 5/	32	52 2/	70	90
#16 (1.18 mm)	15	30			10	32	50	65
#50 (300 µm)	6	15			4	15	15	30
#100 (150 µm)	4	9			3	10	10	18
#200 (75 µm)	3	6	8.0	11.0 3/	4	6	7	9
Ratio Dust/Asphalt Binder		1.0				1.0		1.0 3/

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 24 percent."

Delete Article 1030.04(a)(3) of the Standard Specifications.

Delete Article 1030.04(a)(4) of the Standard Specifications.

Revise the table in Article 1030.04(b)(1) of the Standard Specifications to read:

"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 76-83 percent"

Revise the table in Article 1030.04(b)(2) of the Standard Specifications to read:

"VOLUMETRIC REQUIREMENTS Low ESAL				
Mixture Composition	Design Compactive Effort	Design Air Voids Target %	VMA (Voids in the Mineral Aggregate), % min.	VFA (Voids Filled with Asphalt Binder), %
IL-9.5L	N_{DES} =30	4.0	15.0	65-78
IL-19.0L	N_{DES} =30	4.0	13.5	N/A"

Replace Article 1030.04(b)(3) of the Standard Specifications with the following:

"(3) SMA Mixtures.

ESALs (million)	Ndesign	Design Air Voids Target %	Voids in the Mineral Aggregate (VMA), % min.	Voids Filled with Asphalt (VFA), %
≤ 10	50	4.0	16.0	75 – 80
> 10	80	4.0	17.0	75 – 80"

Delete Article 1030.04(b)(4) of the Standard Specifications.

Delete Article 1030.04(b)(5) from the Supplemental Specifications.

Revise the table in Article 1030.05(d)(2)a. of the Standard Specifications to read:

"Parameter	Frequency of Tests High ESAL Mixture Low ESAL Mixture	Test Method See Manual of Test Procedures for Materials
Aggregate Gradation % passing sieves: 1/2 in. (12.5 mm), No. 4 (4.75 mm), No. 8 (2.36 mm), No. 30 (600 µm) No. 200 (75 µm)	1 washed ignition oven test on the mix per half day of production Note 3.	Illinois Procedure
Asphalt Binder Content by Ignition Oven Note 1.	1 per half day of production	Illinois-Modified AASHTO T 308
VMA Note 2.	Day's production ≥ 1200 tons: 1 per half day of production	Illinois-Modified AASHTO R 35
	Day's production < 1200 tons: 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)	

"Parameter	Frequency of Tests High ESAL Mixture Low ESAL Mixture	Test Method See Manual of Test Procedures for Materials
Air Voids Bulk Specific Gravity of Gyratory Sample Note 4.	Day's production ≥ 1200 tons: 1 per half day of production	Illinois-Modified AASHTO T 312
	Day's production < 1200 tons: 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)	
Maximum Specific Gravity of Mixture	Day's production ≥ 1200 tons: 1 per half day of production	Illinois-Modified AASHTO T 209
	Day's production < 1200 tons: 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)	

Note 1. The Engineer may waive the ignition oven requirement for asphalt binder content if the aggregates to be used are known to have ignition asphalt binder content calibration factors which exceed 1.5 percent. If the ignition oven requirement is waived, other Department approved methods shall be used to determine the asphalt binder content.

Note 2. The G_{sb} used in the voids in the mineral aggregate (VMA) calculation shall be the same average G_{sb} value listed in the mix design.

Note 3. The Engineer reserves the right to require additional hot bin gradations for batch plants if control problems are evident.

Note 4. The WMA compaction temperature for mixture volumetric testing shall be 270 ± 5 °F (132 ± 3 °C) for quality control testing. The WMA compaction temperature for quality assurance testing will be 270 ± 5 °F (132 ± 3 °C) if the mixture is not allowed to cool to room temperature. If the mixture is allowed to cool to room temperature, it shall be reheated to standard HMA compaction temperatures."

Revise the table in Article 1030.05(d)(2)b. of the Standard Specifications to read:

"Parameter	High ESAL Mixture Low ESAL Mixture
Ratio Dust/Asphalt Binder	0.6 to 1.2
Moisture	0.3 %"

Revise the Article 1030.05(d)(4) of the Supplemental Specifications to read:

"(4) Control Limits. Target values shall be determined by applying adjustment factors to the AJMF where applicable. The target values shall be plotted on the control charts within the following control limits.

CONTROL LIMITS						
Parameter	High ESAL Low ESAL		SMA		IL-4.75	
	Individual Test	Moving Avg. of 4	Individual Test	Moving Avg. of 4	Individual Test	Moving Avg. of 4
% Passing: 1/						
1/2 in. (12.5 mm)	± 6 %	± 4 %	± 6 %	± 4 %		
3/8 in. (9.5mm)			± 4 %	± 3 %		
No. 4 (4.75 mm)	± 5 %	± 4 %	± 5 %	± 4 %		
No. 8 (2.36 mm)	± 5 %	± 3 %	± 4 %	± 2 %		
No. 16 (1.18 mm)			± 4 %	± 2 %	± 4 %	± 3 %
No. 30 (600 µm)	± 4 %	± 2.5 %	± 4 %	± 2.5 %		
Total Dust Content No. 200 (75 µm)	± 1.5 %	± 1.0 %			± 1.5 %	± 1.0 %
Asphalt Binder Content	± 0.3 %	± 0.2 %	± 0.2 %	± 0.1 %	± 0.3 %	± 0.2 %
Voids	± 1.2 %	± 1.0 %	± 1.2 %	± 1.0 %	± 1.2 %	± 1.0 %
VMA	-0.7 % 2/	-0.5 % 2/	-0.7 % 2/	-0.5 % 2/	-0.7 % 2/	-0.5 % 2/

1/ Based on washed ignition oven

2/ Allowable limit below minimum design VMA requirement

DENSITY CONTROL LIMITS		
Mixture Composition	Parameter	Individual Test
IL-4.75	Ndesign = 50	93.0 - 97.4 % 1/
IL-9.5	Ndesign = 90	92.0 - 96.0 %
IL-9.5,IL-9.5L	Ndesign < 90	92.5 - 97.4 %
IL-19.0	Ndesign = 90	93.0 - 96.0 %
IL-19.0, IL-19.0L	Ndesign < 90	93.0 2/ - 97.4 %
SMA	Ndesign = 50 & 80	93.5 - 97.4 %

1/ Density shall be determined by cores or by correlated, approved thin lift nuclear gauge.

2/ 92.0 % when placed as first lift on an unimproved subgrade."

Revise the table in Article 1030.05(d)(5) of the Supplemental Specifications to read:

"CONTROL CHART REQUIREMENTS	High ESAL, Low ESAL, SMA & IL-4.75
Gradation 1/ 3/	% Passing Sieves: 1/2 in. (12.5 mm) 2/ No. 4 (4.75 mm) No. 8 (2.36 mm) No. 30 (600 µm)
Total Dust Content 1/	No. 200 (75 µm)
	Asphalt Binder Content
	Bulk Specific Gravity
	Maximum Specific Gravity of Mixture
	Voids
	Density
	VMA

1/ Based on washed ignition oven.

2/ Does not apply to IL-4.75.

3/ SMA also requires the 3/8 in. (9.5 mm) sieve."

Delete Article 1030.05(d)(6)a.1.(b.) of the Standard Specifications.

Delete Article 1030.06(b) of the Standard Specifications.

Delete Article 1102.01(e) of the Standard Specifications.

HOT-MIX ASPHALT – MIXTURE DESIGN VERIFICATION AND PRODUCTION (BDE)

Effective: November 1, 2013
Revised: November 1, 2014

Description. This special provision provides the requirements for Hamburg Wheel and tensile strength testing for High ESAL, IL-4.75, and Stone Matrix Asphalt (SMA) hot-mix asphalt (HMA) mixes during mix design verification and production. This special provision also provides the plant requirements for hydrated lime addition systems used in the production of High ESAL, IL-4.75, and SMA mixes.

Mix Design Testing. Add the following below the referenced AASHTO standards in Article 1030.04 of the Standard Specifications:

AASHTO T 324 Hamburg Wheel Test

AASHTO T 283 Tensile Strength Test

Add the following to Article 1030.04 of the Standard Specifications:

"(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 (Illinois Modified AASHTO T 324) and the Tensile Strength Test (Illinois Modified 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 necessary changes to the mix and provide passing Hamburg Wheel and tensile strength test results from a private lab. The Department will verify the passing results.

All new and renewal mix designs shall meet the following requirements for verification testing.

(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/]

PG Grade	Number of Passes
PG 58-xx (or lower)	5,000
PG 64-xx	7,500
PG 70-xx	15,000
PG 76-xx (or higher)	20,000

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.

(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 550 kPa (80 psi) for polymer modified PG asphalt binder. The maximum allowable unconditioned tensile strength shall be 200 psi (1380 kPa)."

Production Testing. Revise 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 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".

Before start-up, target values shall be determined by applying gradation correction factors to the JMF when applicable. These correction factors shall be determined from previous experience. The target values, when approved by the Engineer, shall be used to control HMA production. Plant settings and control charts shall be set according to target values.

Before constructing the test strip, target values shall be determined by applying gradation correction factors to the JMF when applicable. After any JMF adjustment, the JMF shall become the Adjusted Job Mix Formula (AJMF). Upon completion of the first acceptable test strip, the JMF shall become the AJMF regardless of whether or not the JMF has been adjusted. If an adjustment/plant change is made, the Engineer may require a new test strip to be constructed. If the HMA placed during the initial test strip is determined to be unacceptable to remain in place by the Engineer, it shall be removed and replaced.

The limitations between the JMF and AJMF are as follows.

Parameter	Adjustment
1/2 in. (12.5 mm)	± 5.0 %
No. 4 (4.75 mm)	± 4.0 %
No. 8 (2.36 mm)	± 3.0 %
No. 30 (600 µm)	*
No. 200 (75 µm)	*
Asphalt Binder Content	± 0.3 %

* In no case shall the target for the amount passing be greater than the JMF.

Any adjustments outside the above limitations will require a new mix design.

Mixture sampled to represent the test strip shall include additional material sufficient for the Department to conduct Hamburg Wheel testing according to Illinois Modified AASHTO T324 (approximately 60 lb (27 kg) total).

The Contractor shall immediately cease production upon notification by the Engineer of failing Hamburg Wheel test. All prior produced material may be paved out provided all other mixture criteria is being met. No additional mixture shall be produced until the Engineer receives passing Hamburg Wheel tests.

The Department may conduct additional Hamburg Wheel tests on production material as determined by the Engineer."

Revise the title of Article 1030.06(b) of the Standard Specifications to read:

"(b) Low ESAL Mixtures."

System for Hydrated Lime Addition. Revise the fourth sentence of the third paragraph of Article 1030.04(c) of the Standard Specifications to read:

"The method of application shall be according to Article 1102.01(a)(10)."

Replace the first three sentences of the second paragraph of Article 1102.01(a)(10) of the Standard Specifications to read:

"When hydrated lime is used as the anti-strip additive, a separate bin or tank and feeder system shall be provided to store and accurately proportion the lime onto the aggregate either as a slurry, as dry lime applied to damp aggregates, or as dry lime injected onto the hot aggregates prior to adding the liquid asphalt cement. If the hydrated lime is added either as a slurry or as dry lime on damp aggregates, the lime and aggregates shall be mixed by a power driven pugmill to provide a uniform coating of the lime prior to entering the dryer. If dry hydrated lime is added to the hot dry aggregates in a dryer-drum plant, the lime shall be added in such a manner that the lime will not become entrained into the air stream of the dryer-drum and that thorough dry mixing shall occur prior to the injection point of the liquid asphalt. When a batch plant is used, the hydrated lime shall be added to the mixture in the weigh hopper or as approved by the Engineer."

Basis of Payment. Replace the seventh paragraph of Article 406.14 of the Standard Specifications with the following:

"For mixes designed and verified under the Hamburg Wheel criteria, the cost of furnishing and introducing anti-stripping additives in the HMA will not be paid for separately, but shall be considered as included in the contract unit price of the HMA item involved.

If an anti-stripping additive is required for any other HMA mix, the cost of the additive will be paid for according to Article 109.04. The cost incurred in introducing the additive into the

HMA will not be paid for separately, but shall be considered as included in the contract unit price of the HMA item involved.

No additional compensation will be awarded to the Contractor because of reduced production rates associated with the addition of the anti-stripping additive."

80323

HOT MIX ASPHALT – PRIME COAT (BDE)

Effective: November 1, 2014

Revise Note 1 of Article 406.02 of the Standard Specifications to read:

"Note 1. The bituminous material used for prime coat shall be one of the types listed in the following table.

When emulsified asphalts are used, any dilution with water shall be performed by the emulsion producer. The emulsified asphalt shall be thoroughly agitated within 24 hours of application and show no separation of water and emulsion.

Application	Bituminous Material Types
Prime Coat on Brick, Concrete, or HMA Bases	SS-1, SS-1h, SS-1hP, SS-1vh, RS-1, RS-2, CSS-1, CSS-1h, CSS-1hp, CRS-1, CRS-2, HFE-90, RC-70
Prime Coat on Aggregate Bases	MC-30, PEP"

Add the following to Article 406.03 of the Standard Specifications.

"(i) Vacuum Sweeper 1101.19
(j) Spray Paver ..... 1102.06"

Revise Article 406.05(b) of the Standard Specifications to read:

"(b) Prime Coat. The bituminous material shall be prepared according to Article 403.05 and applied according to Article 403.10. The use of RC-70 shall be limited to air temperatures less than 60 °F (15 °C).

(1) Brick, Concrete or HMA Bases. The base shall be cleaned of all dust, debris and any substance that will prevent the prime coat from adhering to the base. Cleaning shall be accomplished by sweeping to remove all large particles and air blasting to remove dust. As an alternative to air blasting, a vacuum sweeper may be used to accomplish the dust removal. The base shall be free of standing water at the time of application. The prime coat shall be applied uniformly and at a rate that will provide a residual asphalt rate on the prepared surface as specified in the following table.

Type of Surface to be Primed	Residual Asphalt Rate lb/sq ft (kg/sq m)
Milled HMA, Aged Non-Milled HMA, Milled Concrete, Non-Milled Concrete & Tined Concrete	0.05 (0.244)
Fog Coat between HMA Lifts, IL-4.75 & Brick	0.025 (0.122)

The bituminous material for the prime coat shall be placed one lane at a time. If a spray paver is not used, the primed lane shall remain closed until the prime coat is

fully cured and does not pickup under traffic. When placing prime coat through an intersection where it is not possible to keep the lane closed, the prime coat may be covered immediately following its application with fine aggregate mechanically spread at a uniform rate of 2 to 4 lb/sq yd (1 to 2 kg/sq m).

(2) Aggregate Bases. The prime coat shall be applied uniformly and at a rate that will provide a residual asphalt rate on the prepared surface of 0.25 lb/sq ft ± 0.01 (1.21 kg/sq m ±0.05).

The prime coat shall be permitted to cure until the penetration has been approved by the Engineer, but at no time shall the curing period be less than 24 hours for MC-30 or four hours for PEP. Pools of prime occurring in the depressions shall be broomed or squeegeed over the surrounding surface the same day the prime coat is applied.

The base shall be primed 1/2 width at a time. The prime coat on the second half/width shall not be applied until the prime coat on the first half/width has cured so that it will not pickup under traffic.

The residual asphalt rate will be verified a minimum of once per type of surface to be primed as specified herein for which at least 2000 tons (1800 metric tons) of HMA will be placed. The test will be according to the "Determination of Residual Asphalt in Prime and Tack Coat Materials" test procedure.

Prime coat shall be fully cured prior to placement of HMA to prevent pickup by haul trucks or paving equipment. If pickup occurs, paving shall cease in order to provide additional cure time, and all areas where the pickup occurred shall be repaired.

If after five days, loss of prime coat is evident prior to covering with HMA, additional prime coat shall be placed as determined by the Engineer at no additional cost to the Department."

Revise the last sentence of the first paragraph of Article 406.13(b) of the Standard Specifications to read:

"Water added to emulsified asphalt, as allowed in Article 406.02, will not be included in the quantities measured for payment."

Revise the second paragraph of Article 406.13(b) of the Standard Specifications to read:

"Aggregate for covering prime coat will not be measured for payment."

Revise the first paragraph of Article 406.14 of the Standard Specifications to read:

"**406.14 Basis of Payment.** Prime Coat will be paid for at the contract unit price per pound (kilogram) of residual asphalt applied for BITUMINOUS MATERIALS (PRIME COAT), or POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)."

Revise Article 407.02 of the Standard Specifications to read:

"**407.02 Materials.** Materials shall be according to Article 406.02, except as follows.

Item	Article/Section
(a) Packaged Rapid Hardening Mortar or Concrete	1018"

Revise Article 407.06(b) of the Standard Specifications to read:

"(b) A bituminous prime coat shall be applied between each lift of HMA according to Article 406.05(b)."

Delete the second paragraph of Article 407.12 of the Standard Specifications.

Revise the first paragraph of Article 408.04 of the Standard Specifications to read:

"**408.04 Method of Measurement.** Bituminous priming material will be measured for payment according to Article 406.13."

Revise the first paragraph of Article 408.05 of the Standard Specifications to read:

"**408.05 Basis of Payment.** This work will be paid for at the contract unit price per pound (kilogram) of residual asphalt applied for BITUMINOUS MATERIALS (PRIME COAT) or POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) and at the contract unit price per ton (metric ton) for INCIDENTAL HOT-MIX ASPHALT SURFACING."

Revise Article 1032.02 of the Standard Specifications to read:

"**1032.02 Measurement.** Asphalt binders, emulsified asphalts, rapid curing liquid asphalt, medium curing liquid asphalts, slow curing liquid asphalts, asphalt fillers, and road oils will be measured by weight.

A weight ticket for each truck load shall be furnished to the inspector. The truck shall be weighed at a location approved by the Engineer. The ticket shall show the weight of the empty truck (the truck being weighed each time before it is loaded), the weight of the loaded truck, and the net weight of the bituminous material.

When an emulsion or cutback is used for prime coat, the percentage of asphalt residue of the actual certified product shall be shown on the producer's bill of lading or attached certificate of analysis. If the producer adds extra water to an emulsion at the request of the purchaser, the amount of water shall also be shown on the bill of lading.

Payment will not be made for bituminous materials in excess of 105 percent of the amount specified by the Engineer."

Add the following to the table in Article 1032.04 of the Standard Specifications.

"SS-1vh	160-180	70-80
RS-1, CRS-1	75-130	25-55"

Add the following to Article 1032.06 of the Standard Specifications.

"(g) Non Tracking Emulsified Asphalt SS-1vh shall be according to the following.

Requirements for SS-1vh			
Test		SPEC	AASHTO Test Method
Saybolt Viscosity @ 25C,	SFS	20-200	T 72
Storage Stability, 24hr.,	%	1 max.	T 59
Residue by Evaporation,	%	50 min.	T 59
Sieve Test,	%	0.3 max.	T 59
Tests on Residue from Evaporation			
Penetration @25°C, 100g., 5 sec., dmm		20 max.	T 49
Softening Point,	°C	65 min.	T 53
Solubility,	%	97.5 min.	T 44
Orig. DSR @ 82°C,	kPa	1.00 min.	T 315"

Revise the last table in Article 1032.06(f)(2)d. of the Standard Specifications to read:

"Grade	Use
SS-1, SS-1h, RS-1, RS-2, CSS-1, CRS-1, CRS-2, CSS-1h, HFE-90, SS-1hP, CSS-1hP, SS-1vh	Prime or fog seal
PEP	Bituminous surface treatment prime
RS-2, HFE-90, HFE-150, HFE- 300, CRSP, HFP, CRS-2, HFRS-2	Bituminous surface treatment
CSS-1h Latex Modified	Microsurfacing"

Add the following to Article 1101 of the Standard Specifications.

"**1101.19 Vacuum Sweeper.** The vacuum sweeper shall have a minimum sweeping path of 52 in. (1.3 m) and a minimum blower rating of 20,000 cu ft per minute (566 cu m per minute)."

Add the following to Article 1102 of the Standard Specifications:

"**1102.06 Spray Paver.** The spreading and finishing machine shall be capable of spraying a rapid setting emulsion tack coat, paving a layer of HMA, and providing a smooth HMA mat in one pass. The HMA shall be spread over the tack coat in less than five seconds after the

application of the tack coat during normal paving speeds. No wheel or other part of the paving machine shall come into contact with the tack coat before the HMA is applied. In addition to meeting the requirements of Article 1102.03, the spray paver shall also meet the requirements of Article 1102.05 for the tank, heating system, pump, thermometer, tachometer or synchronizer, and calibration. The spray bar shall be equipped with properly sized and spaced nozzles to apply a uniform application of tack coat at the specified rate for the full width of the mat being placed."

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LRFD STORM SEWER BURIAL TABLES (BDE)

Effective: November 1, 2013
Revised: November 1, 2014

Revise Article 550.02 of the Standard Specifications to read as follows:

"Item	Article Section
(a) Clay Sewer Pipe	1040.02
(b) Extra Strength Clay Pipe	1040.02
(c) Concrete Sewer, Storm Drain, and Culvert Pipe	1042
(d) Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe	1042
(e) Reinforced Concrete Elliptical Culvert, Storm Drain,and Sewer Pipe (Note 1)	1042
(f) Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe (Note 1)	1042
(g) Polyvinyl Chloride (PVC) Pipe	1040.03
(h) Corrugated Polyvinyl Chloride (PVC) Pipe with a Smooth Interior	1040.03
(i) Corrugated Polypropylene (CPP) Pipe with Smooth Interior	1040.07
(j) Rubber Gaskets and Preformed Flexible Joint Sealants for Concrete Pipe	1056
(k) Mastic Joint Sealer for Pipe	1055
(l) External Sealing Band	1057
(m) Fine Aggregate (Note 2)	1003.04
(n) Coarse Aggregate (Note 3)	1004.05
(o) Reinforcement Bars and Welded Wire Fabric	1006.10
(p) Handling Hole Plugs	1042.16
(q) Polyethylene (PE) Pipe with a Smooth Interior	1040.04
(r) Corrugated Polyethylene (PE) Pipe with a Smooth Interior	1040.04

Note 1. The class of elliptical and arch pipe used for various storm sewer sizes and heights of fill shall conform to the requirements for circular pipe.

Note 2. The fine aggregate shall be moist.

Note 3. The coarse aggregate shall be wet."

Revise the table for permitted materials in Article 550.03 of the Standard Specifications as follows:

"Class	**Materials**
A	Rigid Pipes: Clay Sewer Pipe Extra Strength Clay Pipe Concrete Sewer, Storm Drain, and Culvert Pipe Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe
B	Rigid Pipes: Clay Sewer Pipe Extra Strength Clay Pipe Concrete Sewer, Storm Drain, and Culvert Pipe Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe Flexible Pipes: Polyvinyl Chloride (PVC) Pipe Corrugated Polyvinyl Chloride Pipe (PVC) with a Smooth Interior Polyethylene (PE) Pipe with a Smooth Interior Corrugated Polyethylene (PE) Pipe with a Smooth Interior Corrugated Polypropylene (CPP) Pipe with a Smooth Interior"

Replace the storm sewers tables in Article 550.03 of the Standard Specifications with the following:

STORM SEWERS
KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED
FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE

Nominal Diameter in.	Type 1 Fill Height: 3' and less With 1' minimum cover								Type 2 Fill Height: Greater than 3' not exceeding 10'							
	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP
10	NA	3	X	X	X	X	X	NA	NA	1	*X	X	X	X	X	NA
12	IV	NA	X	X	X	X	X	X	II	1	*X	X	X	X	X	X
15	IV	NA	NA	X	X	NA	X	X	II	1	*X	X	X	NA	X	X
18	IV	NA	NA	X	X	X	X	X	II	2	X	X	X	X	X	X
21	III	NA	NA	X	X	NA	NA	NA	II	2	X	X	X	NA	NA	NA
24	III	NA	NA	X	X	X	X	X	II	2	X	X	X	X	X	X
27	III	NA	NA	NA	NA	NA	NA	NA	II	3	X	NA	NA	NA	NA	NA
30	IV	NA	NA	X	X	X	X	X	II	3	X	X	X	X	X	X
33	III	NA	NA	NA	NA	NA	NA	NA	II	NA	X	NA	NA	NA	NA	NA
36	III	NA	NA	X	X	X	X	X	II	NA	X	X	X	X	X	X
42	II	NA	X	X	NA	X	X	NA	II	NA	X	X	NA	X	NA	NA
48	II	NA	X	X	NA	X	X	X	II	NA	X	X	NA	X	NA	NA
54	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
60	II	NA	NA	NA	NA	NA	NA	X	II	NA	NA	NA	NA	NA	NA	X
66	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
72	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
78	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
84	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
90	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
96	II	NA	NA	NA	NA	NA	NA	NA	III	NA	NA	NA	NA	NA	NA	NA
102	II	NA	NA	NA	NA	NA	NA	NA	III	NA	NA	NA	NA	NA	NA	NA
108	II	NA	NA	NA	NA	NA	NA	NA	III	NA	NA	NA	NA	NA	NA	NA

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
CSP Concrete Sewer, Storm drain, and Culvert Pipe
PVC Polyvinyl Chloride Pipe
CPVC Corrugated Polyvinyl Chloride Pipe
ESCP Extra Strength Clay Pipe
PE Polyethylene Pipe with a Smooth Interior
CPE Corrugated Polyethylene Pipe with a Smooth Interior
CPP Corrugated Polypropylene pipe with a Smooth Interior

X This material may be used for the given pipe diameter and fill height.
NA This material is Not Acceptable for the given pipe diameter and fill height.
* May also use Standard Strength Clay Pipe

STORM SEWERS (Metric)
KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED
FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE

Nominal Diameter in.	Type 1 — Fill Height: 1 m and less With 300 mm minimum cover								Type 2 — Fill Height: Greater than 1 m not exceeding 3 m							
	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP
250	NA	3	X	X	X	X	X	NA	NA	1	*X	X	X	X	X	NA
300	IV	NA	X	X	X	X	X	X	II	1	*X	X	X	X	X	X
375	IV	NA	NA	X	X	NA	X	X	II	1	*X	X	X	NA	X	X
450	IV	NA	NA	X	X	X	X	X	II	2	X	X	X	X	X	X
525	III	NA	NA	X	X	NA	NA	NA	II	2	X	X	X	NA	NA	NA
600	III	NA	NA	X	X	X	X	X	II	2	X	X	X	X	X	X
675	III	NA	NA	NA	NA	NA	NA	NA	II	3	X	NA	NA	NA	NA	NA
750	IV	NA	NA	X	X	X	X	X	II	3	X	X	X	X	X	X
825	III	NA	NA	NA	NA	NA	NA	NA	II	NA	X	NA	NA	NA	NA	NA
900	III	NA	NA	X	X	X	X	X	II	NA	X	X	X	X	X	X
1050	II	NA	X	X	NA	X	X	NA	II	NA	X	X	NA	X	NA	NA
1200	II	NA	X	X	NA	X	X	X	II	NA	X	X	NA	X	NA	NA
1350	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
1500	II	NA	NA	NA	NA	NA	NA	X	II	NA	NA	NA	NA	NA	NA	X
1650	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
1800	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
1950	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
2100	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
2250	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
2400	II	NA	NA	NA	NA	NA	NA	NA	III	NA	NA	NA	NA	NA	NA	NA
2550	II	NA	NA	NA	NA	NA	NA	NA	III	NA	NA	NA	NA	NA	NA	NA
2700	II	NA	NA	NA	NA	NA	NA	NA	III	NA	NA	NA	NA	NA	NA	NA

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
CSP Concrete Sewer, Storm drain, and Culvert Pipe
PVC Polyvinyl Chloride Pipe
CPVC Corrugated Polyvinyl Chloride Pipe
ESCP Extra Strength Clay Pipe
PE Polyethylene Pipe with a Smooth Interior
CPE Corrugated Polyethylene Pipe with a Smooth Interior
CPP Corrugated Polypropylene pipe with a Smooth Interior
X This material may be used for the given pipe diameter and fill height.
NA This material is Not Acceptable for the given pipe diameter and fill height.
* May also use Standard Strength Clay Pipe

STORM SEWERS
KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED
FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE

Nominal Diameter in.	Type 3								Type 4						
	Fill Height: Greater than 10' not exceeding 15'								Fill Height: Greater than 15' not exceeding 20'						
	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP	RCCP	CSP	ESCP	PVC	CPVC	PE	CPP
10	NA	2	X	X	X	X	X	NA	NA	3	X	X	X	X	NA
12	III	2	X	X	X	X	NA	X	IV	NA	NA	X	X	X	NA
15	III	3	X	X	X	NA	NA	X	IV	NA	NA	X	X	NA	X
18	III	NA	X	X	X	X	NA	X	IV	NA	NA	X	X	X	NA
21	III	NA	NA	X	X	NA	NA	NA	IV	NA	NA	X	X	NA	NA
24	III	NA	NA	X	X	X	NA	NA	IV	NA	NA	X	X	X	NA
27	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
30	III	NA	NA	X	X	X	NA	X	IV	NA	NA	X	X	X	NA
33	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
36	III	NA	NA	X	X	X	NA	NA	IV	NA	NA	X	X	X	NA
42	III	NA	NA	X	NA	X	NA	NA	IV	NA	NA	X	NA	X	NA
48	III	NA	NA	X	NA	X	NA	NA	IV	NA	NA	X	NA	X	NA
54	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
60	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
66	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
72	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
78	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
84	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
90	III	NA	NA	NA	NA	NA	NA	NA	1680	NA	NA	NA	NA	NA	NA
96	III	NA	NA	NA	NA	NA	NA	NA	1690	NA	NA	NA	NA	NA	NA
102	III	NA	NA	NA	NA	NA	NA	NA	1700	NA	NA	NA	NA	NA	NA
108	1360	NA	NA	NA	NA	NA	NA	NA	1710	NA	NA	NA	NA	NA	NA

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
CSP Concrete Sewer, Storm drain, and Culvert Pipe
PVC Polyvinyl Chloride Pipe
CPVC Corrugated Polyvinyl Chloride Pipe
ESCP Extra Strength Clay Pipe
PE Polyethylene Pipe with a Smooth Interior
CPE Corrugated Polyethylene Pipe with a Smooth Interior
CPP Corrugated Polypropylene pipe with a Smooth linterior
X This material may be used for the given pipe diameter and fill height.
NA This material is Not Acceptable for the given pipe diameter and fill height.
* May also use Standard Strength Clay Pipe
Note RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the D-load to produce a 0.01 in crack.

STORM SEWERS (metric)
KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED
FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE

Nominal Diameter in.	Type 3								Type 4						
	Fill Height: Greater than 3 m not exceeding 4.5 m								Fill Height: Greater than 4.5 m not exceeding 6 m						
	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP	RCCP	CSP	ESCP	PVC	CPVC	PE	CPP
250	NA	2	X	X	X	X	X	NA	NA	3	X	X	X	X	NA
300	III	2	X	X	X	X	NA	X	IV	NA	NA	X	X	X	NA
375	III	3	X	X	X	NA	NA	X	IV	NA	NA	X	X	NA	X
450	III	NA	X	X	X	X	NA	X	IV	NA	NA	X	X	X	NA
525	III	NA	NA	X	X	NA	NA	NA	IV	NA	NA	X	X	NA	NA
600	III	NA	NA	X	X	X	NA	NA	IV	NA	NA	X	X	X	NA
675	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
750	III	NA	NA	X	X	X	NA	X	IV	NA	NA	X	X	X	NA
825	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
900	III	NA	NA	X	X	X	NA	NA	IV	NA	NA	X	X	X	NA
1050	III	NA	NA	X	NA	X	NA	NA	IV	NA	NA	X	NA	X	NA
1200	III	NA	NA	X	NA	X	NA	NA	IV	NA	NA	X	NA	X	NA
1350	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
1500	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
1650	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
1800	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
1950	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
2100	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
2250	III	NA	NA	NA	NA	NA	NA	NA	80	NA	NA	NA	NA	NA	NA
2400	III	NA	NA	NA	NA	NA	NA	NA	80	NA	NA	NA	NA	NA	NA
2550	III	NA	NA	NA	NA	NA	NA	NA	80	NA	NA	NA	NA	NA	NA
2700	70	NA	NA	NA	NA	NA	NA	NA	80	NA	NA	NA	NA	NA	NA

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
CSP Concrete Sewer, Storm drain, and Culvert Pipe
PVC Polyvinyl Chloride Pipe
CPVC Corrugated Polyvinyl Chloride Pipe
ESCP Extra Strength Clay Pipe
PE Polyethylene Pipe with a Smooth Interior
CPE Corrugated Polyethylene Pipe with a Smooth Interior
CPP Corrugated Polypropylene pipe with a Smooth Interior
X This material may be used for the given pipe diameter and fill height.
NA This material is Not Acceptable for the given pipe diameter and fill height.
* May also use Standard Strength Clay Pipe
Note RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the metric D-load to produce a 25.4 micro-meter crack.

STORM SEWERS KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE								
Nominal Diameter in.	Type 5			Type 6			Type 7	
	Fill Height: Greater than 20' not exceeding 25'			Fill Height: Greater than 25' not exceeding 30'			Fill Height: Greater than 30' not exceeding 35'	
	RCCP	PVC	CPVC	RCCP	PVC	CPVC	RCCP	CPVC
10	NA	X	X	NA	X	X	NA	X
12	IV	X	X	V	X	X	V	X
15	IV	X	X	V	X	X	V	X
18	IV	X	X	V	X	X	V	X
21	IV	X	X	V	X	X	V	X
24	IV	X	X	V	X	X	V	X
27	IV	NA	NA	V	NA	NA	V	NA
30	IV	X	X	V	X	X	V	X
33	IV	NA	NA	V	NA	NA	V	NA
36	IV	X	X	V	X	X	V	X
42	IV	X	NA	V	X	NA	V	NA
48	IV	X	NA	V	X	NA	V	NA
54	IV	NA	NA	V	NA	NA	V	NA
60	IV	NA	NA	V	NA	NA	V	NA
66	IV	NA	NA	V	NA	NA	V	NA
72	V	NA	NA	V	NA	NA	V	NA
78	2020	NA	NA	2370	NA	NA	2730	NA
84	2020	NA	NA	2380	NA	NA	2740	NA
90	2030	NA	NA	2390	NA	NA	2750	NA
96	2040	NA	NA	2400	NA	NA	2750	NA
102	2050	NA	NA	2410	NA	NA	2760	NA
108	2060	NA	NA	2410	NA	NA	2770	NA

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
PVC Polyvinyl Chloride Pipe
CPVC Corrugated Polyvinyl Chloride Pipe
ESCP Extra Strength Clay Pipe
X This material may be used for the given pipe diameter and fill height.
NA This material is Not Acceptable for the given pipe diameter and fill height.
Note RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the D-load to produce a 0.01 in crack.

STORM SEWERS (metric) KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE								
Nominal Diameter in.	Type 5			Type 6			Type 7	
	Fill Height: Greater than 20' not exceeding 25'			Fill Height: Greater than 25' not exceeding 30'			Fill Height: Greater than 30' not exceeding 35'	
	RCCP	PVC	CPVC	RCCP	PVC	CPVC	RCCP	CPVC
250	NA	X	X	NA	X	X	NA	X
300	IV	X	X	V	X	X	V	X
375	IV	X	X	V	X	X	V	X
450	IV	X	X	V	X	X	V	X
525	IV	X	X	V	X	X	V	X
600	IV	X	X	V	X	X	V	X
675	IV	NA	NA	V	NA	NA	V	NA
750	IV	X	X	V	X	X	V	X
825	IV	NA	NA	V	NA	NA	V	NA
900	IV	X	X	V	X	X	V	X
1050	IV	X	NA	V	X	NA	V	NA
1200	IV	X	NA	V	X	NA	V	NA
1350	IV	NA	NA	V	NA	NA	V	NA
1500	IV	NA	NA	V	NA	NA	V	NA
1650	IV	NA	NA	V	NA	NA	V	NA
1800	V	NA	NA	V	NA	NA	V	NA
1950	100	NA	NA	110	NA	NA	130	NA
2100	100	NA	NA	110	NA	NA	130	NA
2250	100	NA	NA	110	NA	NA	130	NA
2400	100	NA	NA	120	NA	NA	130	NA
2550	100	NA	NA	120	NA	NA	130	NA
2700	100	NA	NA	120	NA	NA	130	NA

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
PVC Polyvinyl Chloride Pipe
CPVC Corrugated Polyvinyl Chloride Pipe
ESCP Extra Strength Clay Pipe
X This material may be used for the given pipe diameter and fill height.
NA This material is Not Acceptable for the given pipe diameter and fill height.
Note RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the metric D-load to produce a 25.4 micro-meter crack.

Revise the sixth paragraph of Article 550.06 of the Standard Specifications to read:

"PVC, PE and CPP pipes shall be joined according to the manufacturer's specifications."

Revise the first and second paragraphs of Article 550.08 of the Standard Specifications to read:

"**550.08 Deflection Testing for Storm Sewers.** All PVC, PE, and CPP storm sewers shall be tested for deflection not less than 30 days after the pipe is installed and the backfill compacted. The testing shall be performed in the presence of the Engineer.

For PVC, PE, and CPP storm sewers with diameters 24 in. (600 mm) or smaller, a mandrel drag shall be used for deflection testing. For PVC, PE, and CPP storm sewers with diameters over 24 in. (600 mm), deflection measurements other than by a mandrel shall be used."

Revise the fifth paragraph of Article 550.08 to read as follows.

"The outside diameter of the mandrel shall be 95 percent of the base inside diameter. For all PVC pipe the base inside diameter shall be defined using ASTM D 3034 methodology. For all PE and CPP pipe, the base inside diameter shall be defined as the average inside diameter based on the minimum and maximum tolerances specified in the corresponding ASTM or AASHTO material specifications."

Revise the first paragraph of Article 1040.03 of the Standard Specifications to read:

"**1040.03 Polyvinyl Chloride (PVC) Pipe.** Acceptance testing of PVC pipe and fittings shall be accomplished during the same construction season in which they are installed. The section properties shall be according to the manufacturer pre-submitted geometric properties on file with the Department. The manufacturer shall submit written certification that the material meets those properties. The pipe shall meet the following additional requirements."

Delete Articles 1040.03(e) and (f) of the Standard Specifications.

Revise Articles 1040.04(c) and (d) of the Standard Specifications to read:

"(c) PE Profile Wall Pipe for Insertion Lining. The pipe shall be according to ASTM F 894. When used for insertion lining of pipe culverts, the pipe liner shall have a minimum pipe stiffness of 46 psi (317 kPa) at five percent deflection for nominal inside diameters of 42 in. (1050 mm) or less. For nominal inside diameters of greater than 42 in. (1050 mm), the pipe liner shall have a minimum pipe stiffness of 32.5 psi (225 kPa) at five percent deflection. All sizes shall have wall construction that presents essentially smooth internal and external surfaces.

(d) PE Pipe with a Smooth Interior. The pipe shall be according to ASTM F 714 (DR 32.5) with a minimum cell classification of PE 335434 as defined in ASTM D 3350. The section properties shall be according to the manufacturer pre-submitted geometric properties on file with the Department. The manufacturer shall submit written

certification that the material meets those properties and the resin used to manufacture the pipe meets or exceeds the minimum cell classification requirements."

Add the following to Section 1040 of the Standard Specifications:

"**1040.08 Polypropylene (PP) Pipe.** Storage and handling shall be according to the manufacturer's recommendations, except in no case shall the pipe be exposed to direct sunlight for more than six months. Acceptance testing of the pipe shall be accomplished during the same construction season in which it is installed. The section properties shall be according to the manufacturer pre-submitted geometric properties on file with the Department. The manufacturer shall submit written certification that the material meets those properties. The pipe shall meet the following additional requirements.

(a) Corrugated PP Pipe with a Smooth Interior. The pipe shall be according to AAHSTO M 330 (nominal size – 12 to 60 in. (300 to 1500 mm)). The pipe shall be Type S or D.

(b) Perforated Corrugated PP Pipe with A Smooth Interior. The pipe shall be according to AASHTO M 330 (nominal size – 12 to 60 in. (300 to 1500 mm)). The pipe shall be Type SP. In addition, the top centerline of the pipe shall be marked so that it is readily visible from the top of the trench before backfilling, and the upper ends of the slot perforations shall be a minimum of ten degrees below the horizontal."

80325

PAVEMENT PATCHING (BDE)

Effective: January 1, 2010

Revise the first sentence of the second paragraph of Article 701.17(e)(1) of the Standard Specifications to read:

"In addition to the traffic control and protection shown elsewhere in the contract for pavement, two devices shall be placed immediately in front of each open patch, open hole, and broken pavement where temporary concrete barriers are not used to separate traffic from the work area."

80254

PAVEMENT STRIPING - SYMBOLS (BDE)

Effective: January 1, 2015

Revise the Symbol Table of Article 780.14 of the Supplemental Specifications to read:

"SYMBOLS

Symbol	Large Size sq ft (sq m)	Small Size sq ft (sq m)
Through Arrow	11.5 (1.07)	6.5 (0.60)
Left or Right Arrow	15.6 (1.47)	8.8 (0.82)
2 Arrow Combination Left (or Right) and Through	26.0 (2.42)	14.7 (1.37)
3 Arrow Combination Left, Right, and Through	38.4 (3.56)	20.9 (1.94)
Lane Drop Arrow	41.5 (3.86)	--
Wrong Way Arrow	24.3 (2.26)	--
Railroad "R" 6 ft (1.8 m)	3.6 (0.33)	--
Railroad "X" 20 ft (6.1 m)	54.0 (5.02)	--
International Symbol of Accessibility	3.1 (0.29)	--
Bike Symbol	4.7 (0.44)	--
Shared Lane Symbol	8.0 (0.74)	--"

80352

PORTLAND CEMENT CONCRETE PARTIAL DEPTH HOT-MIX ASPHALT PATCHING (BDE)

Effective: April 1, 2014

Description. This work shall consist of partial depth removal of the existing portland cement concrete pavement structure and replacement with hot-mix asphalt (HMA).

The partial depth removal on a lane width or less shall be classified by type/size as follows.

Type I	Less than 8 sq yd (9 sq m)
Type II	8 sq yd (9 sq m) or more, but less than 50 sq yd (42 sq m)
Type III	50 sq yd (42 sq m) or more, but less than 100 sq yd (84 sq m)
Type IV	100 sq yd (84 sq m) or more

Materials. Materials shall be according to the following Articles/Sections of the Standard Specifications.

Item	Article/Section
(a) Bituminous Material for Prime Coat	406.02
(b) Hot-Mix Asphalt (Note 1)	1030

Note1. If the patch is going to be resurfaced, the HMA for partial depth patches shall be a surface mixture of the same type as the proposed resurfacing or as approved by the Engineer. If the patch is not going to be resurfaced, the mix shall be as shown on the plans.

Equipment. Equipment shall be according to the following Articles/Sections of the Standard Specifications.

Item	Article/Section
(a) Self-Propelled Milling Machine	1101.16
(b) Concrete Saw	442.03(f)
(c) Wheel Saw	442.03(g)
(d) Rollers	442.03
(e) Mechanical Sweeper	1101.03
(f) Air Equipment (Note 1)	

Note 1. The air equipment shall be capable of supplying compressed air at a minimum pressure of 100 psi (690 kPa) and shall have sufficient flow rate to remove all disturbed pavement debris. The equipment shall also be according to ASTM D 4285.

CONSTRUCTION REQUIREMENTS

General. The minimum patch dimension shall be 24 x 24 in. (600 x 600 mm).

Partial Depth Removal. Partial depth removal of the pavement shall be accomplished by the use of a milling machine and/or the wheel saw. The patch area shall be cleaned by air equipment or mechanical sweeper and all disturbed pavement debris and any loose or unsound concrete shall be removed. Materials resulting from the removal shall be disposed of according to Article 202.03 of the Standard Specifications.

Exposed reinforcement shall be removed back to the point where the steel is in contact with sound concrete. Where high steel is encountered, the depth of the patch may be reduced as directed by the Engineer.

Replacement with HMA. When the Engineer determines the exposed pavement will be suitable for a partial depth patch, a bituminous prime coat shall be applied according to Article 406.05(b) of the Standard Specifications.

The prepared patch shall be filled with HMA with a maximum lift thickness of 3 in. (75 mm). Where more than one lift is needed, the top lift shall be a minimum of 2 in. (50 mm) thick. At the option of the Contractor, the 2 in. (50 mm) top layer may be constructed using HMA surface course. The HMA shall be compacted to the satisfaction of the Engineer.

Patch Maintenance. Patches opened to traffic which are high or become rough by rutting, shoving, or heaving shall be corrected by trimming off high areas and/or filling depressions. Filled areas shall be rolled again.

Areas Unsuitable for a Partial Depth Patch. When the Engineer determines the exposed pavement will not be suitable for a partial depth patch, or removal is one half or more of the pavement thickness, the remaining portion of the pavement shall be removed and a full depth patch shall be constructed according to Section 442 of the Standard Specifications for the Class of full depth patches included in the contract. The exposed area may be filled with HMA and the full depth patch constructed at a later date. HMA shall be placed as specified for the partial depth repair.

Method of Measurement. Partial depth removal of the portland cement concrete pavement will be measured for payment in place and the area computed in square yards (square meters).

HMA for partial depth patching of the portland cement concrete pavement and for the backfilling of partial depth removal when it is determined the area is not suitable for a partial depth patch will be measured for payment in tons (metric tons) according to Article 406.13 of the Standard Specifications.

Basis of Payment. Partial depth removal of the portland cement concrete pavement will be paid for at the contract unit price per square yard (square meter) for PARTIAL DEPTH REMOVAL, of the type and thickness specified.

HMA for partial depth patching and for backfilling areas unsuitable for a partial depth patch will be paid for at the contract unit price per ton (metric ton) for PARTIAL DEPTH PATCHING.

When the Engineer determines to convert any partial depth patch to a full depth patch after the partial depth removal of the portland cement concrete pavement has begun, the partial depth removal will still be paid for at the contract unit price for PARTIAL DEPTH REMOVAL. The remaining removal for the full depth patch will be considered as included in the appropriate full depth patching pay item.

80338

PRECAST CONCRETE HANDHOLE (BDE)

Effective: August 1, 2014

Revise the third paragraph of Article 814.03 of the Standard Specifications to read:

"Handholes shall be constructed as shown on the plans and shall be cast-in-place, composite concrete, or precast units. Heavy duty handholes shall be either cast-in-place or precast units."

Add the following to Article 814.03 of the Standard Specifications:

"(c) Precast Concrete. Precast concrete handholes shall be fabricated according to Article 1042.17. Where a handhole is contiguous to a sidewalk, preformed joint filler of 1/2 inch (13 mm) thickness shall be placed between the handhole and the sidewalk."

Add the following to Section1042 of the Standard Specifications:

"**1042.17 Precast Concrete Handholes.** Precast concrete handholes shall be according to Articles 1042.03(a)(c)(d)(e)."

80343

RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (BDE)

Effective: November 1, 2012
Revise: April 1, 2014

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 produced by cold milling or crushing an existing hot-mix asphalt (HMA) pavement. 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 93 percent passing the #4 (4.75 mm) sieve based on a dry shake gradation. RAS shall be uniform in gradation and asphalt binder content and 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. No additional RAP shall be added to the pile after the pile has been sealed. Stockpiles shall be sufficiently separated to prevent intermingling at the base. Stockpiles shall be identified by signs indicating the type as listed below (i.e. "Homogeneous Surface").

Prior to milling, the Contractor shall request the District provide documentation on the quality of the RAP to clarify the appropriate stockpile.

(1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, HMA (High and Low ESAL) 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 fractionated prior to testing by screening into a minimum of two size 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 shall pass the sieve size specified below for the mix into which the FRAP will be incorporated.

Mixture FRAP will be used in:	Sieve Size that 100% of FRAP Shall Pass
IL-25.0	2 in. (50 mm)
IL-19.0	1 1/2 in. (40 mm)
IL-12.5	1 in. (25 mm)
IL-9.5	3/4 in. (20 mm)
IL-4.75	1/2 in. (13 mm)

(2) Homogeneous. Homogeneous RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) mixtures and represent: 1) the same aggregate quality, but shall be at least C quality; 2) the same type of crushed aggregate (either crushed natural aggregate, ACBF slag, or steel slag); 3) similar gradation; and 4) similar asphalt binder content. If approved by the Engineer, combined single pass surface/binder millings may be considered "homogenous" with a quality rating dictated by the lowest coarse aggregate quality present in the mixture.

(3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) 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 prior to testing by crushing to where all RAP shall pass the 5/8 in. (16 mm) or smaller screen. Conglomerate RAP stockpiles shall not contain steel slag.

(4) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from Class I, HMA (High or Low ESAL), or "All Other" (as defined by Article 1030.04(a)(3)) mixtures. 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.

(5) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

RAP/FRAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, joint sealants, 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 not be intermingled. Each stockpile shall be signed indicating what type of RAS is present.

Unless otherwise specified by the Engineer, mechanically blending manufactured sand (FM 20 or FM 22) up to an equal weight of RAS with the processed RAS will be permitted to improve workability. The sand shall be "B Quality" or better from an approved Aggregate Gradation Control System source. The sand shall be 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. RAP/FRAP and RAS testing shall be according to the following.

(a) RAP/FRAP Testing. When used in HMA, the RAP/FRAP shall be sampled and tested either during or after stockpiling.

(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) 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.

Each sample shall be split to obtain two equal 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 or RAS blended with manufactured sand shall be sampled and tested during stockpiling according to Illinois Department of Transportation Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Source".

Samples shall be collected during stockpiling 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 250 tons (225 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 or RAS blended with manufactured sand shall be stockpiled 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.

Before testing, each sample shall be split to obtain two test samples. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall perform a washed extraction and test for unacceptable materials on 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.

If the sampling and testing was performed at the shingle processing facility in accordance with the QC Plan, the Contractor shall obtain and make available all of the test results from start of the initial stockpile.

1031.04 Evaluation of Tests. Evaluation of tests results shall be according to the following.

(a) Evaluation of RAP/FRAP Test Results. All of the extraction results shall be compiled and averaged for asphalt binder content and gradation and, when applicable G_{mm}. Individual extraction test results, when compared to the averages, will be accepted if within the tolerances listed below.

Parameter	FRAP/Homogeneous /Conglomerate	Conglomerate "D" Quality
1 in. (25 mm)		± 5 %
1/2 in. (12.5 mm)	± 8 %	± 15 %
No. 4 (4.75 mm)	± 6 %	± 13 %
No. 8 (2.36 mm)	± 5 %	
No. 16 (1.18 mm)		± 15 %
No. 30 (600 µm)	± 5 %	
No. 200 (75 µm)	± 2.0 %	± 4.0 %
Asphalt Binder	± 0.4 % 1/	± 0.5 %
G_{mm}	± 0.03	

1/ The tolerance for FRAP shall be ± 0.3 %.

If more than 20 percent of the individual sieves and/or asphalt binder content tests are out of the above tolerances, the RAP/FRAP shall not be used in HMA unless the

RAP/FRAP representing the failing tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

With the approval of the Engineer, the ignition oven may be substituted for extractions according to the Illinois Test Procedure, "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)".

(b) Evaluation of RAS and RAS Blended with Manufactured Sand 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. Individual test results, when compared to the averages, 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)	± 2.0 %
Asphalt Binder Content	± 1.5 %

If more than 20 percent of the individual sieves and/or asphalt binder content tests are out of the above tolerances, or if the percent unacceptable material exceeds 0.5 percent by weight of material retained on the # 4 (4.75 mm) sieve, the RAS or RAS blend shall not be used in Department projects. All test data and acceptance ranges shall be sent to the District for evaluation.

1031.05 Quality Designation of Aggregate in RAP/FRAP.

(a) RAP. The aggregate quality of the RAP for homogenous, 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. Coarse and fine FRAP 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 prequalified by the Department for the specified testing. The consultant 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 BMPR Aggregate Lab for MicroDeval Testing, according to Illinois Modified AASHTO T 327. A maximum loss of 15.0 percent will be applied for all HMA applications.

1031.06 Use of RAP/FRAP and/or RAS in HMA. The use of RAP/FRAP and/or RAS shall be a Contractor's option when constructing HMA in all contracts.

(a) RAP/FRAP. The use of RAP/FRAP in HMA shall be as follows.

(1) Coarse Aggregate Size. The coarse aggregate in all RAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.

(2) Steel Slag Stockpiles. Homogeneous RAP stockpiles containing steel slag will be approved for use in all HMA (High ESAL and Low ESAL) Surface and Binder Mixture applications.

(3) Use in HMA Surface Mixtures (High and Low ESAL). RAP/FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall be FRAP or homogeneous in which the coarse aggregate is Class B quality or better. RAP/FRAP from Conglomerate stockpiles shall be considered equivalent to limestone for frictional considerations. Known frictional contributions from plus #4 (4.75 mm) homogeneous RAP and FRAP stockpiles will be accounted for in meeting frictional requirements in the specified mixture.

(4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. RAP/FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP, homogeneous, or conglomerate, in which the coarse aggregate is Class C quality or better.

(5) Use in Shoulders and Subbase. RAP/FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, homogeneous, conglomerate, or conglomerate DQ.

(6) When the Contractor chooses the RAP option, the percentage of RAP shall not exceed the amounts indicated in Article 1031.06(c)(1) below for a given N Design.

(b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.

(c) RAP/FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with RAP or FRAP in HMA mixtures up to a maximum of 5.0% by weight of the total mix.

(1) RAP/RAS. When RAP is used alone or RAP is used in conjunction with RAS, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the Max RAP/RAS ABR table listed below for the given Ndesign.

RAP/RAS Maximum Asphalt Binder Replacement (ABR) Percentage

HMA Mixtures 1/, 2/	RAP/RAS Maximum ABR %		
Ndesign	Binder/Leveling Binder	Surface	Polymer Modified
30	30	30	10
50	25	15	10
70	15	10	10
90	10	10	10
105	10	10	10

1/ For HMA "All Other" (shoulder and stabilized subbase) N-30, the RAP/RAS ABR shall not exceed 50 percent of the mixture.

2/ When RAP/RAS ABR exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28). If warm mix asphalt (WMA) technology is utilized, and production temperatures do not exceed 275 °F (135 °C) the high and low virgin asphalt binder grades shall each be reduced by one grade when RAP/RAS ABR exceeds 25 percent (i.e. 26 percent RAP/RAS ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

(2) FRAP/RAS. When FRAP is used alone or FRAP is used in conjunction with RAS, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the FRAP/RAS table listed below for the given N design.

FRAP/RAS Maximum Asphalt Binder Replacement (ABR) Percentage

HMA Mixtures 1/, 2/	FRAP/RAS Maximum ABR %		
Ndesign	Binder/Leveling Binder	Surface	Polymer Modified 3/, 4/
30	50	40	10

50	40	35	10
70	40	30	10
90	40	30	10
105	40	30	10

1/ For HMA "All Other" (shoulder and stabilized subbase) N30, the FRAP/RAS ABR shall not exceed 50 percent of the mixture.

2/ When FRAP/RAS ABR exceeds 20 percent for all mixes the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28). If warm mix asphalt (WMA) technology is utilized, and production temperatures do not exceed 275 °F (135 °C) the high and low virgin asphalt binder grades shall each be reduced by one grade when FRAP/RAS ABR exceeds 25 percent (i.e. 26 percent ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

3/ For SMA the FRAP/RAS ABR shall not exceed 20 percent.

4/ For IL-4.75 mix the FRAP/RAS ABR shall not exceed 30 percent.

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) RAP/FRAP and/or RAS. RAP/FRAP and/or RAS mix designs shall be submitted for verification. If additional RAP/FRAP stockpiles are tested and found that no more than 20 percent of the results, as defined under "Testing" herein, are outside of the control tolerances set for the original RAP/FRAP stockpile and HMA mix design, and meets all of the requirements herein, the additional RAP/FRAP stockpiles may be used in the original mix 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 2.500 shall be used for mix design purposes.

1031.08 HMA Production. HMA production utilizing RAP/FRAP and/or RAS shall be as follows.

(a) RAP/FRAP. The coarse aggregate in all RAP/FRAP used shall be equal to or less than the nominal maximum size requirement for the HMA mixture being produced.

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 RAP 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 the RAP/FRAP control tolerances or QC/QA test results require corrective action, the Contractor shall cease production of the mixture containing RAP/FRAP and either switch to the virgin aggregate design or submit a new RAP/FRAP design.

(b) 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.

(c) RAP/FRAP and/or RAS. HMA plants utilizing RAP/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 RAP/FRAP/RAS 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 RAP/FRAP material as a percent of the total mix to the nearest 0.1 percent.

h. Aggregate and RAP/FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAP/FRAP are printed in wet condition.)

(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).

e. RAP/FRAP/RAS weight to the nearest pound (kilogram).

f. Virgin asphalt binder weight to the nearest pound (kilogram).

g. Residual asphalt binder in the RAP/FRAP/RAS 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 Shoulders. The use of RAP in aggregate surface course (temporary access entrances only) and aggregate wedge shoulders Type B 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 to construct aggregate surface course and aggregate shoulders shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications".

(b) Gradation. One hundred percent of the RAP material shall pass the 1 1/2 in. (37.5 mm) sieve. The RAP material shall be reasonably well graded from coarse to fine. RAP material that is gap-graded or single sized will not be accepted."

80306

SIDEWALK, CORNER, OR CROSSWALK CLOSURE (BDE)

Effective: January 1, 2015

Revise the first sentence of Article 1106.02(m) of the Supplemental Specifications to read:

"The top and bottom panels shall have alternating white and orange stripes sloping 45 degrees on both sides."

80354

WARM MIX ASPHALT (BDE)

Effective: January 1, 2012
Revised: November 1, 2014

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.

"(13) 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

SEGMENTAL CONCRETE BLOCK WALL
Effective: January 7, 1999
Revised: October 30, 2012

Description. This work shall consist of furnishing the design computations, shop plans, materials, equipment and labor to construct a Segmental Concrete Block Retaining Wall to the limits shown on the plans.

General. The wall shall consist of a leveling pad, precast concrete blocks (either dry-cast or wet cast), select fill and, if required by the design, soil reinforcement. The wall shall be designed and constructed according to the lines, grades, and dimensions shown on the contract plans and approved shop plans.

Submittals. The wall supplier shall submit design computations and shop plans to the Engineer according to Article 1042.03(b) of the Standard Specifications. No work or ordering of materials for the structure shall be done by the Contractor until the submittal has been approved in writing by the Engineer. The shop plans shall be sealed by an Illinois Licensed Structural Engineer and shall include all details, dimensions, quantities, and cross sections necessary to construct the wall and shall include, but not be limited to, the following items:

(a) Plan, elevation, and cross section sheet(s) for each wall showing the following:

(1) A plan view of the wall indicating the offsets from the construction centerline to the first course of blocks at all changes in horizontal alignment. These shall be calculated using the offsets to the front face of the block shown on the contract plans and the suppliers proposed wall batter. The plan view shall indicate bottom (and top course of block when battered), the excavation and select fill limits as well as any soil reinforcing required by the design. The centerline of any drainage structure or pipe behind or passing through/under the wall shall also be shown.

(2) An elevation view of the wall, indicating the elevation and all steps in the top course of blocks along the length of the wall. The top of these blocks shall be at or above the theoretical top of block line shown on the contract plans. This view shall also show the steps and proposed top of leveling pad elevations as well as the finished grade line at the wall face specified on the contract plans. These leveling pad elevations shall be located at or below the theoretical top of leveling line shown on the contract plans. The location, size, and length of any soil reinforcing connected to the blocks shall be indicated.

(3) Typical cross section(s) showing the limits of the select fill, soil reinforcement if used in the design. The right-of-way limits shall be indicated as well as the proposed excavation, cut slopes, and the elevation relationship between existing ground conditions and proposed grades.

(4) All general notes required for constructing the wall.

(b) All details for the leveling pads, including the steps, shall be shown. The theoretical top of the leveling pad shall either be below the anticipated frost depth or 1.5 ft. (450 mm) below the finished grade line at the wall face, whichever is greater; unless otherwise shown on the plans. The minimum leveling pad thickness shall be 6 in. (152 mm)

(c) Cap blocks shall be used to cover the top of the standard block units. The top course of blocks and cap blocks shall be stepped to satisfy the top of block line shown on the contract plans.

(d) All details of the block and/or soil reinforcement placement around all appurtenances located behind, on top of, or passing through the wall shall be clearly indicated. Any modifications to the design of these appurtenances to accommodate a particular design arrangement shall also be submitted.

(e) All details of the blocks, including color and texture shall be shown. The exterior face shall preferably be straight, textured with a "split rock face" pattern, and dark gray in color unless otherwise stated on the plans.

(f) All block types (standard, cap, corner, and radius turning blocks) shall be detailed showing all dimensions.

(g) All blocks shall have alignment/connection devices such as shear keys, leading/trailing lips, or pins. The details for the connection devices between adjacent blocks and the block to soil reinforcement shall be shown. The block set back or face batter shall be limited to 20 degrees from vertical, unless otherwise shown by the plans.

Materials. The materials shall meet the following requirements:

(a) Dry-Cast Concrete Block: Dry-cast concrete block proposed for use shall be pre-cast and produced according Article 1042.02 and the requirements of ASTM C1372 except as follows:

1. Fly ash shall be according to Articles 1010.01 and 1010.02(b).

2. Ground granulated blast-furnace slag shall be according to Articles 1010.01 and 1010.05.

3. Aggregate shall be according to Articles 1003.02 and 1004.02, with the exception of gradation.

4. Water shall be according to Section 1002.

5. Testing for freeze-thaw durability will not be required. However, unsatisfactory field performance as determined by the Department will be cause to prohibit the use of the block on Department projects.

(b) Wet-cast Concrete Block: Wet-cast concrete block proposed for use shall be pre-cast and produced according to Section 1020 and Article 1042.02. The concrete shall be Class PC with a minimum compressive strength of at least 3000 psi (31 MPa) at 28 days.

(c) Select fill: The select fill, defined as the material placed in the reinforced volume behind the wall, shall be according to Sections 1003 and 1004 of the Standard Specifications and the following:

(1) Select Fill Gradation. Either a coarse aggregate or a fine aggregate may be used. For coarse aggregate, gradations CA 6 thru CA 16 may be used. For fine aggregate, gradations FA 1, FA 2, or FA 20 may be used.

(2) Select Fill Quality. The coarse or fine aggregate shall have a maximum sodium sulfate (Na_2SO_4) loss of 15 percent according to Illinois Modified AASHTO T 104.

(3) Select Fill Internal Friction Angle. The effective internal friction angle for the coarse or fine aggregate shall be a minimum 34 degrees according to AASHTO T 236 on samples compacted to 95 percent density according to Illinois Modified AASHTO T 99. The AASHTO T 296 test with pore pressure measurement may be used in lieu of AASHTO T 236. If the vendor's design uses a friction angle higher than 34 degrees, as indicated on the approved shop drawings, this higher value shall be taken as the minimum required.

(4) Select Fill and Geosynthetic Reinforcing. When geosynthetic reinforcing is used, the select fill pH shall be 4.5 to 9.0 according to Illinois Modified AASHTO T 289.

(5) Test Frequency. Prior to start of construction, the Contractor shall provide internal friction angle and pH test results to show the select fill material meets the specification requirements. However, the pH will be required only when geosynthetic reinforcing is used. All test results shall not be older than 12 months. In addition, a sample of select fill material will be obtained for testing and approval by the Department. Thereafter, the minimum frequency of sampling and testing at the jobsite will be one per 40,000 tons (36,300 metric tons) of select fill material. Testing to verify the internal friction angle will only be required when the wall design utilizes a minimum effective internal friction angle greater than 34 degrees, or when crushed coarse aggregate is not used.

When a fine aggregate is selected, the rear of all block joints shall be covered by a non-woven needle punch geotextile filter material according to Article 1080.05 of the Standard Specifications and shall have a minimum permeability according to ASTM D4491 of 0.008 cm/sec. All fabric overlaps shall be 6 in. (150 mm) and non-sewn. As an alternative to the geotextile, a coarse aggregate shall be placed against the back face of the blocks to create a minimum 12 in. (300 mm) wide continuous gradation filter to prevent the select fill material from passing through the block joints.

(d) Leveling pad: The material shall be either Class SI concrete according to Article 1020.04 or compacted coarse aggregate according to Articles 1004.04, (a) and (b). The compacted coarse aggregate gradation shall be CA 6 or CA 10.

(e) Soil Reinforcement: If soil reinforcement is required by the approved design, the Contractor shall submit a manufacturer's certification for the soil reinforcement properties which equals or exceeds those required in the design computations. The soil reinforcement shall be manufactured from high density polyethylene (HDPE) uniaxial or polypropylene biaxial resins or high tenacity polyester fibers with a PVC coating, stored between -20 and 140° F (-29 and 60° C). The following standards shall be used in determining and demonstrating the soil reinforcement capacities:

ASTM D638 Test Method for Tensile Properties of Plastic
ASTM D1248 Specification for Polyethylene Plastics Molding and Extrusion Materials
ASTM D4218 Test Method for Carbon Black Content in Polyethylene Compounds
ASTM D5262 Test Method for Evaluating the Unconfined Tension Creep Behavior of Geosynthetics
GG1-Standard Test Method for Geogrid Rib Tensile Strength
GG2-Standard Test Method for Geogrid Junction Strength
GG4-Standard Practice for Determination of the Long Term Design Strength of Geogrid
GG5-Standard Practice for Evaluating Geogrid Pullout Behavior

Design Criteria. The design shall be according to AASHTO Specifications and commentaries for Earth Retaining Walls or FHWA Publication No. HI-95-038, SA-96-071 and SA-96-072. The wall supplier shall be responsible for all internal stability aspects of the wall design.

Internal stability design shall insure that adequate factors of safety against overturning and sliding are present at each level of block. If required by design, soil reinforcement shall be utilized and the loading at the block/soil reinforcement connection as well as the failure surface must be indicated. The calculations to determine the allowable load of the soil reinforcement and the factor of safety against pullout shall also be included. The analysis of settlement, bearing capacity, and overall slope stability are the responsibility of the Department.

External loads such as those applied through structure foundations, from traffic or railroads, slope surcharge etc., shall be accounted for in the internal stability design. The presence of all appurtenances behind, in front of, mounted upon, or passing through the wall volume such as drainage structures, utilities, structure foundation elements, or other items shall be accounted for in the internal stability design of the wall.

Construction Requirements. The Contractor shall obtain technical assistance from the supplier during wall erection to demonstrate proper construction procedures and shall include all costs related to this technical assistance in the unit price bid for this item.

The foundation material for the leveling pad and select fill volume shall be graded to the design elevation and compacted according to Article 205.05, except the minimum required compaction shall be 95 percent of the standard laboratory density. The Engineer will perform one density test per 1500 ft (450 m) of the entire length of foundation material through both cut and fill areas. Any foundation soils found to be unsuitable shall be removed and replaced as directed by the Engineer and shall be paid for according to Article 109.04.

The select fill lift placement shall closely follow the erection of each course of blocks. All aggregate shall be swept from the top of the block prior to placing the next block lift. If soil reinforcement is used, the select fill material shall be leveled and compacted before placing and attaching the soil reinforcement to the blocks. The soil reinforcement shall be pulled taut, staked in place, and select fill placed from the rear face of the blocks outward. The lift thickness shall be the lesser of 10 in. (255 mm) loose measurement or the proposed block height.

The select fill shall be compacted according to Article 205.05, except the minimum required compaction shall be 95 percent of the standard laboratory density. Compaction shall be achieved using a minimum of 3 passes of a lightweight mechanical tamper, roller, or vibratory system. The Engineer will perform one density test per 5000 cu yd (3800 cu m) and not less than one test per 2 ft (0.6m) of lift. The top 12 in. (300 mm) of backfill shall be a cohesive, impervious material capable of supporting vegetation, unless other details are specified on the plans.

The blocks shall be maintained in position as successive lifts are compacted along the rear face of the block. Vertical, horizontal, and rotational alignment tolerances shall not exceed 0.5 in. (12 mm) when measured along a 10 ft. (3 m) straight edge.

Method of Measurement. Segmental Concrete Block Wall will be measured by the square foot (square meter) of wall face from the top of block line to the theoretical top of the leveling pad for the length of the wall in a vertical plane, as shown on the contract plans.

Basis of Payment. This work will be paid for at the contract unit price per square foot (square meter) for SEGMENTAL CONCRETE BLOCK WALL.

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

SPECIAL PROVISION FOR BIDDING REQUIREMENTS AND CONDITIONS FOR CONTRACT PROPOSALS

Effective: January 1, 2001
Revised: January 1, 2014

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.

Replace Article 102.01 of the Standard Specifications with the following:

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

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

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

(a) Lack of competency and adequate machinery, plant, and other equipment, as revealed by the financial statement and experience questionnaires required in the prequalification procedures.
(b) Uncompleted work which, in the judgment of the Awarding Authority, might hinder or prevent the prompt completion of additional work awarded.
(c) False information provided on a bidder's "Affidavit of Availability".
(d) Failure to pay, or satisfactorily settle, all bills due for labor and material on former contracts in force at the time of issuance of proposal forms.
(e) Failure to comply with any prequalification regulations of the Department.
(f) Default under previous contracts.
(g) Unsatisfactory performance record as shown by past work for the Awarding Authority, judged from the standpoint of workmanship and progress.
(h) When the Contractor is suspended from eligibility to bid at a public letting where the contract is awarded by, or requires approval of, the Department.
(i) When any agent, servant, or employee of the prospective bidder currently serves as a member, employee, or agent of a governmental body that is financially involved in the proposal work.

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

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

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

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

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

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

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

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

(a) More than one proposal for the same work from an individual, firm, partnership, or corporation under the same name or different names.
(b) Evidence of collusion among bidders.
(c) Unbalanced proposals in which the bid prices for some items are, in the judgment of the Awarding Authority, out of proportion to the bid prices for other items.
(d) If the proposal does not contain a unit price for each pay item listed, except in the case of authorized alternate pay items or lump sum pay items.
(e) If the proposal form is other than that furnished by the Awarding Authority; or if the form is altered or any part thereof is detached.
(f) If there are omissions, erasures, alterations, unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.
(g) If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
(h) If the proposal is not accompanied by the proper proposal guaranty.
(i) If the proposal is prepared with other than ink or typewriter, or otherwise fails to meet the requirements of the above "Preparation of Proposal" section.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

State of Illinois
DEPARTMENT OF TRANSPORTATION
Bureau of Local Roads & Streets

SPECIAL PROVISION FOR WAGES OF EMPLOYEES ON PUBLIC WORKS

Effective: January 1, 1999
Revised: January 1, 2014

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

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

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

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

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

10507b 105.07
UTILITIES – LOCATIONS/INFORMATION ON PLANS

Effective: November 8, 2013

The locations of existing water mains, gas mains, sewers, electric power lines, telephone lines, and other utilities as shown on the plans are based on field investigation and locations provided by the utility companies, but they are not guaranteed. Unless elevations are shown, all utility locations shown on the cross sections are based on the approximate depth supplied by the utility company. It shall be the Contractor's responsibility to ascertain their exact location from the utility companies and by field inspection.

10731 107.31
LOCATION OF UNDERGROUND STATE MAINTAINED FACILITIES

Effective: August 3, 2007 Revised: July 31, 2009

The Contractor shall be responsible for locating existing and proposed IDOT electrical facilities (traffic signal, overhead lighting, Intelligent Transportation System, etc.) prior to performing any work at his/her own expense if required. The Contractor shall also be liable for any damage to IDOT facilities resulting from inaccurate locating.

The Contractor may obtain, on request, plans for existing electrical facilities from the Department.

The Contractor shall also be responsible for locating and providing protection for IDOT facilities during all phases of construction. If at any time the facilities are damaged, the Contractor shall immediately notify the Department and make all necessary arrangements for repair to the satisfaction of the Engineer. This work will not be paid for separately, but shall be included in the contract bid price.

31101 311.01
SUBBASE GRANULAR MATERIAL

Effective: November 5, 2004

This work shall be in accordance with Section 311 of the Standard Specifications and as specified herein.

All Subbase Granular Material shall have a minimum IBR of 40.

40601 406.01
ANTI-STRIP ADDITIVE FOR HOT-MIX ASPHALT

Effective July 30, 2010

If an anti-stripping additive is required for any hot-mix asphalt in accordance with Article 1030.04(c), the cost of the additive will not be paid for separately, but shall be considered as included in the contract unit price bid for the hot-mix asphalt item(s) involved.

44003 440.03
PROTECTION OF FRAMES AND LIDS OF UTILITY STRUCTURES

Effective March 6, 1991 Revised January 1, 2007

This work shall consist of protecting frames and lids of utility structures in the pavement after the adjacent hot-mix asphalt surface has been removed to the required depth by cold milling or by hand methods.

After the area has been swept clean and before the lane is opened to traffic, a hot bituminous mixture shall be placed around the casting, flush with its surface and decreasing to a featheredge in a distance of 4 feet (1.2 m) around the entire surface of the casting. Cold mix or milled material will not be permitted. This mixture shall remain in place until the day surfacing operations are undertaken within the immediate area of the structure. Prior to placing the surface course, the temporary hot-mix asphalt mixture shall be removed and disposed of by the Contractor as specified in Article 202.03 of the Standard Specifications.

The temporary tapers and their removal shall be considered included in the contract unit price per Square Meter (Square Yard) for HOT-MIX ASPHALT SURFACE REMOVAL of the depth specified, and no additional compensation will be allowed.

44003b 440.03b
SURFACE REMOVAL, VARIABLE DEPTH

Description: This work shall consist of removing a portion of the existing hot-mix asphalt concrete surface course in accordance with the applicable portions of Section 440 and 1101 of the Standard Specifications, this special provision, details in the plans and as directed by the Engineer. The cold milled salvaged aggregate resulting from this operation shall become the property of the Contractor.

When the teeth become worn so that they do not produce a uniform surface texture, they shall all be changed at the same time (as a unit). Occasionally, individual teeth may be changed if they lock up or break, but this method shall not be used to avoid changing the set of teeth as a unit.

The moldboard is critical in obtaining the desired surface texture. It shall be straight, true, and free of excessive nicks or wear, and it shall be replaced as necessary to uniformly produce the required surface texture. Gouging of the pavement by more than 1/4 inch (6 mm) shall be sufficient cause to require replacement of all teeth. Occasional gouges, due to deteriorated pavement condition, or separation of lifts will not be cause to replace all teeth. The Engineer

will be the sole judge of the cause of the pavement gouging and the corrective work required. Corrective work due to negligence or poor workmanship will be at the Contractor's expense.

Construction Requirements

General: Weather conditions, when milling work is performed, must be such that short term or temporary pavement markings can be placed the day the surface is milled in accordance with Section 703 "Work Zone Pavement Markings."

An automatic grade control device shall be used when milling mainline pavement and shall be capable of controlling the elevation of the drum relative to either a preset grade control stringline or a grade reference device traveling on the adjacent pavement surface. The automatic grade control device may be utilized on only one side of the machine with an automatic slope control device controlling the opposite side. The traveling grade reference device shall not be less than 30 feet (9 m) in length for rural areas. For urban areas, a device not less than 20 feet (6 m) in length will be required. When milling cross roads, turn lanes, intersections, crossovers, or other miscellaneous areas, the Engineer may permit the use of a matching shoe.

The Contractor shall use the new constructed gutter for longitudinal grade control and set the cross slope as indicated on the typical section drawings.

Surface tests will be performed according to Article 407.09(a) of the Standard Specifications. The profile will be taken 3 ft. (0.9 m) from and parallel to each edge of pavement and 3 ft. (0.9 m) from and parallel to the centerline on each side. If a shadow area is found at the 3 ft. (0.9 m) points, the pavement smoothness tester will be moved sufficient distance either side to measure the Contractor's milling efforts. If any (milled) surface variations found to be over 1/4" in 10' (6 mm in 3 m), then the roadway shall be re-profiled at no additional cost. In addition, the Contractor shall be responsible for refilling, with approved hot-mix asphalt mixtures, any area that lowered the pavement profile as a result of his faulty milling operations if directed by the Engineer. The Contractor shall be responsible for providing the pavement smoothness tester described elsewhere to retest the pavement profile obtained.

If the milling depth is intended to expose the original concrete pavement, then additional hand or machine work may be necessary to remove any remaining veneer of bituminous pavement which may be left in place behind the milling machine. Such work will be at the direction of the Engineer and at no extra cost to the State.

The Contractor shall provide a 10' (3 m) straightedge equipped with a carpenter's level or a 7' (2.1 m) electronic straightedge to check the cross slope of the roadway at regular intervals as directed by the Engineer.

Surface Texture: Each tooth on the cutting drum shall produce a series of discontinuous longitudinal striations. There shall be 16 to 20 striations (tooth marks) for each tooth for each 6' (1.8 m) in the longitudinal direction, and each striation shall be 1.7 inches ± 0.2 inch (43 ± 5 mm) in length after the area is planned by the moldboard. Thus, the planed length between each pair of striations shall be 2.3 inches ± 0.2 inch (58 ± 5 mm). There shall be 80 to 96 rows of discontinuous longitudinal striations for each 5' (1.5 m) in the transverse dimension. The areas between the striations in both the longitudinal and transverse directions shall be flat topped and coplaner. The moldboard shall be used to cut this plane; and any time the operation fails to produce this flat plane interspersed with a uniform pattern of discontinuous longitudinal striations, the operation shall be stopped and the cause determined and corrected

before recommencing. Other similar patterns of uniform discontinuous longitudinal striations interspersed on a flat plane may be approved by the Engineer.

The startup milling speed shall be limited to a maximum of 50' (15 m) per minute. The Contractor shall limit his operations to this speed to demonstrate his ability to obtain the striations and rideability as described above. If the Contractor is able to demonstrate that he can consistently obtain the desired striations and rideability at a greater speed he will be permitted to run at the increased speed.

Cleanup: After cold milling a traffic lane and before opening the lane to traffic, the pavement shall be swept by a self-propelled street sweeper with power vacuum capability to prevent compaction of the cuttings onto the pavement. All loose material shall be removed from the roadway. Before the prime coat is placed, the pavement shall be cleaned of all foreign material to the satisfaction of the Engineer.

This cleanup work shall be considered included in the contract unit price per Square Yard (Square Meter) for SURFACE REMOVAL, VARIABLE DEPTH and no additional compensation will be allowed.

Method of Measurement:

Contract Quantities. The requirements for the use of Contract Quantities shall be Article 202.07(a) of the Standard Specifications.

Basis of Payment: The cold milling and planing will be paid for at the contract unit price per Square Yard (Square Meter) for SURFACE REMOVAL, VARIABLE DEPTH. Payment as specified will include variations in depth of cuts due to rutting, superelevations, and pavement crown and no additional compensation will be allowed.

88600a 886.00a

DETECTOR LOOPS, TYPE 1

Effective March 1, 1996 Revised August 3, 2007

This work shall be in accordance with Sections 886 and 1079 of the Standard Specifications except as modified herein.

All detector loops shall utilize a separate pair of lead-ins and a Type II splice shall be used for all detector lead-ins.

All proposed detector loops shall be cut in the proposed binder course or milled surface prior to the final overlay. The riser area shall be chipped out and filled with epoxy.

All loop risers that are affected by construction shall be modified as needed and reflected through the new pavement. The cost of performing this work shall be considered incidental to this pay item and shall be taken into consideration in the bid price. There will be no additional compensation.

All detector loops shall be re-installed in the original locations. The Engineer of Traffic shall be notified prior to detector loop installation. Please contact Randy Laninga at (309) 671-4477

forty-eight (48 hrs.) hours prior to milling. Operations will alter the signal timing when the loops are removed.

The above work will be paid for at the contract unit price per Foot (Meter) for DETECTOR LOOP, TYPE I and shall be payment in full for all labor, materials, and equipment required to perform the work and install the detector loops described above.

110300 1103.00
PCC QC/QA ELECTRONIC REPORT SUBMITTAL

Effective April 26, 2013

The Contractor's QC personnel shall be responsible for electronically submitting PRO and IND MI 654 Air, Slump, Quantity and PRO MI 655 PCC Strength Reports to the Department. The format for the electronic submittals will be the PCC QC/QA reporting program, which will be provided by the Department. Microsoft Office 2007 or newer is required for this program which must be provided by the Contractor.

110303 1103.03
PCC AUTOMATIC BATCHING EQUIPMENT

Effective April 23, 2010 Revised November 8, 2013

Portland cement concrete provided shall be produced from batch plants that conform to the requirements of Article 1103.03 (a) and (b) of the Standard Specifications for Road and Bridge Construction. Semi-automatic batching will not be allowed.

In addition, the batching plant shall be a computerized plant interfaced with a printer and shall print actual batch weights, added water, tempering water, mixing time, and amount of each additive per batch. At the discretion of the Engineer, archived electronic versions of batch proportions will be acceptable. Truck delivery tickets will still be required as per Article 1020.11 (a)(7) of the Standard Specifications.

CITY OF PEORIA
SUBCONTRACTOR PAYMENT FORM

PRIME CONTRACTOR

Name: _____

Address: _____

Phone: _____

Contact Person: _____

PROJECT

Name: _____

Pay Estimate No: _____

Percent Complete: _____%

Work Period: _____ to _____

INSTRUCTIONS: Complete the table below. If additional space is needed attach extra pages as needed and included all information listed in the table below; along with project name and prime contractor.

Subcontractor *(Name)*	**Payment Amount**	**Payment Type** *(F-full/ P-partial)*
	$	
	$	
	$	
	$	
	$	
	$	
Total Payment Amount for Work Completed	$	

This form is to verify the work completed and the amount paid to a subcontractor utilized on the above listed project. Under penalty of law for perjury or falsification, the undersigned certifies that the payment reported herein was made to the subcontractors listed.

_____ _____

Signature of Prime Contractor Date

CITY OF PEORIA
MONTHLY WORKFORCE ANALYSIS

Check appropriate status
_____**Contractor**
_____ **Subcontractor**

Month Ending_____

Name: _____

Address: _____

Contact Person: _____ Phone:_____

Project: _____

Date Work Started: _____ Percent Complete: _____%

Job Categories	Number of Employees				Hours of Employment									
	Total # of Employees		Total Minorities		African American		Asian/Pacific Islander		American Indian/Alaskan Native		Hispanic		White	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Foremen														
Electricians														
Glaziers														
Iron Workers														
Laborers														
Teamsters														
Millwrights														
Pipe Fitters														
Plumbers														
Plasterers														
Painters														
Roofers														
Operating Engs														
Tile Layers														
Sheet Metal Wkrs														
TOTALS														

Instructions: The total number of hours worked on the project (Hours of Employment), and the total number of individuals working on the project during the reporting period (Number of Employees) should be submitted on this form to the Project Resident Engineer <u>every month</u>. Each contractor and subcontractor should submit with this form certified payroll records for the period covered. The prime contractor is responsible for securing and submitting with his/her report, reports from all subcontractors.

CITY OF PEORIA
NOTIFICATION OF CHANGE IN PARTICIPATION

Type of Change
_____ Subcontractor. Complete Part 1
_____ Self-Performance. Complete Part 2

Date:_____

PRIME CONTRACTOR

Name: _____
Address: _____
_____
Phone: _____

PROJECT

Name:_____

PART 1

If changing from previously identified subcontractor to another, complete both From and To.

From Name _____
_____
Address _____
_____
_____
_____
Phone _____
_____
Status _____ MBE _____ WBE _____ Non-M/WBE

To Name
Address
Phone
Status _____ MBE _____ WBE _____ Non-M/WBE
Contract Amount _____

Will scope of work change? _____ Yes _____ No
Describe change _____
_____
_____
Reason for Contractor Change _____
_____
_____

PART 2

Complete if deviating from intent to self-perform.

Prime Contractor will have to hire another contractor to perform work. _____ Yes _____ No

Change was due to _____ Emergency _____ Non-Emergency
Explain Situation _____
_____
_____

Describe good faith efforts to utilize M/WBE _____
_____
_____

Name of added Contractor _____
Address _____
_____
Phone _____
Status _____ MBE _____ WBE _____ Non-M/WBE Contract Amount _____
Scope of Work _____
_____

Signed: _____ _____
Contractor Title

APPENDIX B

Excerpts of Draft PSI issued with Addendum 2
Final PSI will be available to the Contractor before work begins.

****DRAFT****

Preliminary Site Investigation Report
Twelve Potential Waste Sites
Along FAU 6593 (University Street)
Nebraska Avenue to Forrest Hill Avenue
Peoria, Peoria County, Illinois

March 9, 2015

Prepared for:

Crawford, Murphy & Tilly, Inc.
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Peoria, IL 61602

Prepared by:

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1. INTRODUCTION

This Preliminary Site Investigation (PSI) report was prepared for Crawford, Murphy & Tilly, Inc. (CMT). This PSI report evaluates twelve potential waste sites identified by Andrews Engineering, Inc. (AEI) that are located along the existing right-of-way (ROW) where excavations associated with the planned improvements along University Street in Peoria, Peoria County. This evaluation characterizes the nature and extent of contaminants in soils, if any, within the sampled areas and estimates the volume and cost to handle or dispose of such soils.

1.1. Investigation Objectives

The objectives of the investigation as defined in the work plan approved by CMT on February 10, 2015 are:

- Determine the nature and extent of soil contamination within the ROW.
- Based on the results of the soil chemical analysis, prepare a site investigation report with findings, conclusions, and recommendations which include the remediation scope of work. The remediation scope of work will include an estimate of contaminated soil excavation quantities and an estimated cost for remediation.
- Evaluate the potential for contaminant migration to surrounding properties within the project area and present recommendations for reducing or eliminating such migration, if necessary.

1.2. Background

A Preliminary Environmental Site Assessment (PESA) was conducted by AEI for the various properties along University Street in Peoria, Peoria County, Illinois. The PESA included a reconnaissance of the properties, a review of readily available records, a search of pertinent environmental databases, an evaluation of historical aerial photographs and maps, and a description of the local and regional geology and hydrogeology. The PESA report, dated December 19, 2014, provides a comprehensive review of history and environmental conditions of the project area based on available information. The PESA identified recognized environmental conditions (RECs) at sites adjacent to the areas of proposed construction excavation. CMT responded to the PESA by indicating a PSI of potential waste sites along University Street alignment was warranted. Excerpts of the PESA are presented in Appendix A.

On February 9, 2015, AEI submitted a work plan to conduct a PSI of twelve potential waste sites along University Street in Peoria, Peoria County, Illinois. As requested by CMT, AEI's investigation was limited to the proposed project area and did not extend to potential sources beyond the prescribed project area limits.

1.3. CMT Project Description & Sampling Rationale

CMT file information provided to AEI indicates proposed improvements along University Street include road resurfacing, sidewalk construction, driveway reconstruction, curb/gutter, storm sewer, storm inlets, and traffic signal mast arm foundations. The proposed improvements require earth excavation.

Excavation areas located adjacent to potential waste sites are required to be investigated because these sites cannot be avoided during construction. According to CMT, the proposed construction excavations associated with improving University Street extend to a maximum depth of 14 feet below ground surface (bgs).

1.4. CMT Right-of-Way Acquisition

According to CMT's proposed plans, temporary easement is proposed at ten of the subject potential waste sites and ROW acquisition/permanent easement is proposed at two of the subject potential waste sites under this contract.

2. INVESTIGATION PROCEDURES

The field investigation was completed in accordance with both the CMT-approved work plan for University Street, Nebraska Avenue to Forrest Hill Avenue and State-approved standard operating procedures (SOPs) for field investigations.

2.1. Sample Identification Rationale

Individual sampling locations are identified with a unique alphanumeric identification code, described below.

- The first part of the identification designation is a number representing the project site. For example, all borings performed at the Prairie Farms site will start with a "1".
- Following these designations is a number for each boring with the first letter signifying media type. For example, the first soil boring to be conducted at the Prairie Farms site is designated "1-B01". The "B" indicates this is a soil boring.

2.2. Sampling Procedures

2.2.1 Soil Sampling Procedures

On February 11, 2015, AEI conducted a site reconnaissance to mark proposed boring locations for the utility locate conducted prior to the subsurface investigation. Boring locations were marked with regard to proposed excavation areas activities, apparent utility lines, and permanent structures within the project area.

On February 16 and 17, 2015, AEI and Fusion Construction Services, LLC advanced 33 soil borings using a Geoprobe® direct-push drilling unit. Soil samples were collected from the soil borings to define the general nature and extent of potential contamination related to the project site. After each boring was completed, the sampler was decontaminated with an Alconox® and distilled water solution. Each borehole was backfilled with bentonite chips.

All soil samples were field screened by visual and olfactory methods for the presence of contamination and then field screened with a photoionization detector (PID) for the presence of volatile organic compounds (VOCs). Soil cores were screened in two-foot intervals using a calibrated MiniRAE 2000 portable PID. AEI logged each soil boring by recording the depth interval, percent recovery, soil description, and headspace screening results. Boring logs are presented in Appendix B.

AEI collected 40 soil samples, including four duplicate samples, from the project area for laboratory analyses. Soil samples were collected from each soil boring in accordance with SW-846. Soil samples designated for analyses were placed into laboratory grade containers and delivered to the Teklab Environmental Testing Laboratory in Collinsville, Illinois. Sample identification, documentation, and chain-of-custody were conducted in accordance with IDOT approved Standard Operating Procedures. Each soil sample was analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, Toxicity Characteristic Leaching Procedure (TCLP) and Synthetic Precipitation Leaching Procedure (SPLP) metals, pH and percent solids. A waste characterization soil sample was not collected.

2.3. Screening Levels

Soil analytical results for each parameter are compared to the Illinois EPA's table titled *Summary of Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations (35 Ill. Adm. Code 1100.Subpart F)*. Where applicable, the soil analytical results for relevant parameters are compared to the most stringent Tier 1 soil remediation objective for residential properties, as presented in Appendix B, Table A of TACO (35 Ill. Adm. Code 742). TCLP, SPLP, and groundwater analytical results are compared to 35 Ill. Adm. Code Part 742: Tiered Approach for Corrective Action Objectives (TACO) Class I groundwater remediation objectives. The magnitude of the analytical results relative to the screening levels determines how and where excavated soils are to be managed. Report qualifiers and acronyms for analytical tables are shown in Table 1. Table 2 provides the parameters and laboratory reporting limits which exceed the Maximum Allowable Concentrations and/or Class I groundwater remediation objectives. Based on the land use information provided in the PESA, these constituents are not expected to be present in site soils. The remediation objectives for soil are shown in Tables 3 and 4.

Soil sample pH levels are compared to the acceptable range for disposal into a clean construction and demolition debris (CCDD) facility or an uncontaminated soil fill operation (USFO). The 35 Ill. Adm. Code 1100 requires the pH measurement of soil to be from 6.25 to 9.0 to qualify for proper disposal. If the soil pH measurement falls outside of this range, the soil cannot be managed within a CCDD/USFO. Soils with a pH measurement outside of the acceptable range but otherwise not impacted by contaminants of concern (COCs) may be managed on-site and reused as backfill or off-site as uncontaminated soil so long as the soil does not go to a CCDD/USFO.

PID headspace screening results are compared to PID background readings. The PID instrument is accurate to 1 ppm between 0 and 10 ppm; therefore, any value equal to 1 or greater than the measured background level is considered "above background". Soil exhibiting PID readings above background cannot be accepted by a CCDD/USFO.

2.4. Evaluation of Sampling Results

AEI's field investigation uses pre-designated sampling and/or boring locations to provide an initial characterization of site conditions. The investigation was limited in terms of the number of samples collected. Consequently, the findings and conclusions of this investigation should be considered preliminary and subject to revision if additional site data becomes available.

When contaminated soil is found, the estimated volume of contaminated soil is based on the investigation findings and following assumptions:

- The horizontal length of contamination is determined by a rectangle encompassing the affected boring(s) extending laterally one-half the distance between the affected boring and the adjacent boring that does not contain a compound above a remedial objective or the adjacent property boundary. The horizontal width of contamination can be measured from the centerline of the roadway to half the distance between the boring that does not have any exceedence or the construction limit.

- For VOCs, the vertical extent of contamination is conservatively interpreted by assuming the soil sample interval is impacted if the analytical results exceed the remedial objective or if PID headspace readings are observed above the respective background readings.
- The vertical extents of SVOC and inorganic compound contamination are generally assumed to extend from the surface to the depth interval where the exceedence of the remedial objective was observed.

3. FIELD INVESTIGATION RESULTS

This section summarizes AEI's field investigation activities including field observations, headspace screening results, a discussion of analytical results compared to soil remediation objectives, and an assessment of the nature and extent of contamination relative to proposed excavation and construction. The field investigation summaries are reported on a site-by-site basis.

3.1. Applicable Project Area Geology

3.1.1 Shallow Soils

In general, the soils observed within the proposed construction extents and depths are primarily silty clay with occasional intervals of silty sand overlain with concrete. Within the project area the Natural Resources Conservation Services (NRCS) has classified the soils as silty loams and urban land. Soils observed during the investigation are synonymous with the soils described by the NRCS. Groundwater was not encountered in any of the soil borings.

A detailed description of project geology and hydrogeology is presented in the AEI PESA in Appendix A. Soil boring logs are presented in Appendix B.

3.2. Site 1 – Prairie Farms

3.2.1 Field Investigation Summary

Four soil samples were collected from borings 1-B01 through 1-B04 between 0 and 4 feet bgs. The boring locations are shown on Figures 2 and 3. AEI field personnel did not observe odors or staining indicative of contamination in soil samples collected from the borings and PID headspace screening readings were not detected above background (0 ppm).

3.2.2 Analytical Results

3.2.2.1 Soil

The analytical results for the soil samples are presented in Table 3a. Six VOCs and 16 metals were detected among the samples collected from site 1 between 0 and 4 feet bgs. Twelve metals were detected by SPLP analysis. Based on the results of SPLP analysis, TCLP iron, lead, and manganese analyses were performed among the samples.

The pH measurements of the samples from borings 1-B01 through -B04 were within the acceptable range.

3.2.3 Nature and Extent of Contaminants of Concern

3.2.3.1 Soil

As shown in Table 4, the COCs in site soils are arsenic and manganese.

- **Arsenic** exceeded the most stringent MAC but did not exceed the MSA MAC or the most stringent TACO Tier 1 Soil Remediation Objective for Residential Properties in sample 1-B02 (0-2 ft).

- **TCLP/SPLP Manganese** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in sample 1-B03 (0-2 ft).

Table 5 lists the COCs detected above applicable MACs and the estimated volume of impacted soil at each boring. Volumes of impacted soil are estimated without regard for property boundaries or planned excavation activities.

3.2.4 Construction Activities within Impacted Soil Areas

Proposed construction excavations for road resurfacing, sidewalk construction, driveway reconstruction, curb/gutter, storm sewer, and storm inlets are anticipated within site areas impacted by COCs. As indicated by CMT, the maximum excavation depth is 4 feet bgs.

Table 6 summarizes the areas where construction excavation is anticipated to encounter soil assumed to contain COCs above applicable MACs. The table includes soil excavation volumes that are proposed within the impacted soil area that require proper handling and disposal if removed from the site. The assumed areas of impacted construction excavation are depicted on Figures 2 and 3.

3.3. Site 10 – Parking Lot

3.3.1 Site Field Observations and Sampling Rationale

Three soil samples were collected from borings 10-B01 through 10-B03 between 0 and 4 feet bgs. The boring locations are shown on Figure 4. AEI field personnel detected a slight petroleum odor from sample 10-B02 (0-4 ft). The PID headspace screening reading in boring 10-B02 was 2.6 ppm at one foot bgs.

3.3.2 Analytical Results

3.3.2.1 Soil

The analytical results for the soil samples are presented in Table 3b. Seven VOCs and 16 metals were detected among the samples collected from site 10 between 0 and 4 feet bgs. Eleven metals were detected by SPLP analysis. Based on the results of SPLP analysis, TCLP iron and lead analyses were performed on two samples.

The pH measurements of the samples from borings 10-B01 through -B03 were within the acceptable range.

3.3.3 Nature and Extent of Contaminants of Concern

3.3.3.1 Soil

As shown in Table 4, the COCs in site soils are iron and lead.

- **Iron** exceeded the MSA MAC in samples 10-B01 (0-4 ft) and 10-B02 (0-4 ft).
- **TCLP/SPLP Iron** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in samples 10-B01 (0-4 ft) and 10-B02 (0-4 ft).

- **TCLP/SPLP Lead** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in samples 10-B01 (0-4 ft) and 10-B02 (0-4 ft).

- **Total Volatile Organic Compounds** were exceeded based upon an elevated PID reading in sample 10-B02 (0-4 ft).

Table 5 lists the COCs detected above applicable MACs and the estimated volume of impacted soil at each boring. Volumes of impacted soil are estimated without regard for property boundaries or planned excavation activities.

3.3.4 Construction Activities within Impacted Soil Areas

Proposed construction excavations for road resurfacing, sidewalk construction, driveway reconstruction, curb/gutter, storm sewer, and storm inlets are anticipated within site areas impacted by COCs. As indicated by CMT, the maximum excavation depth is 4 feet bgs.

Table 6 summarizes the areas where construction excavation is anticipated to encounter soil assumed to contain COCs above applicable MACs. The table includes soil excavation volumes that are proposed within the impacted soil area that require proper handling and disposal if removed from the site. The assumed areas of impacted construction excavation are depicted on Figure 4.

3.4. Site 13 – Midas Auto Service

3.4.1 Site Field Observations and Sampling Rationale

Four soil samples, including one duplicate sample, were collected from borings 13-B01 through 13-B03 between 0 and 4 feet bgs. The boring locations are shown on Figure 4. AEI field personnel detected a strong petroleum odor from sample 13-B03 (0-4 ft). PID headspace screening readings in boring 13-B03 were 46.7 ppm and 138 ppm at two feet and four feet bgs, respectively.

3.4.2 Analytical Results

3.4.2.1 Soil

The analytical results for the soil samples are presented in Table 3c. Seven VOCs, one SVOC, and 16 metals were detected among the samples collected from site 13 between 0 and 4 feet bgs. Eleven metals were detected by SPLP analysis. Based on the results of SPLP analysis, TCLP iron, lead, and manganese analyses were performed among the samples.

The pH measurements of the samples from borings 13-B01 and 13-B03 DUP were outside the acceptable range (9.18 and 9.06 respectively). The pH measurements of the remaining samples from site 13 were within the acceptable range.

3.4.3 Nature and Extent of Contaminants of Concern

3.4.3.1 Soil

As shown in Table 4, the COCs in site soils are benzene, arsenic, iron, lead, and manganese.

- **Benzene** exceeded the most stringent MAC as well as the most stringent TACO Tier I Soil Remediation Objective for Residential Properties in samples 13-B03 (0-4 ft) and 13-B03 DUP (0-4 ft).
- **Arsenic** exceeded the MSA MAC as well as the most stringent TACO Tier 1 Soil Remediation Objective for Residential Properties in sample 13-B01 (0-2 ft).
- **Arsenic** exceeded the most stringent MAC but was below the MSA MAC and the most stringent TACO Tier I Soil Remediation Objective for Residential Properties in sample 13-B02 (0-4 ft).
- **Iron** exceeded the MSA MAC in samples 13-B03 (0-4 ft) and 13-B03 DUP (0-4 ft).
- **Manganese** exceeded the MSA MAC but was below the most stringent TACO Tier 1 Soil Remediation Objective for Residential Properties in sample 13-B03 (0-4 ft).
- **TCLP/SPLP Iron** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in samples 13-B03 (0-4 ft) and 13-B03 DUP (0-4 ft).
- **TCLP/SPLP Lead** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in samples 13-B03 (0-4 ft) and 13-B03 DUP (0-4 ft).
- **TCLP/SPLP Manganese** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in sample 13-B03 (0-4 ft).
- **Total Volatile Organic Compounds** were exceeded based upon an elevated PID reading in sample 13-B03 (0-4 ft).

Table 5 lists the COCs detected above applicable MACs and the estimated volume of impacted soil at each boring. Volumes of impacted soil are estimated without regard for property boundaries or planned excavation activities.

3.4.4 Construction Activities within Impacted Soil Areas

Proposed construction excavations for road resurfacing, sidewalk construction, driveway reconstruction, curb/gutter, storm sewer, and storm inlets are anticipated within site areas impacted by COCs. As indicated by CMT, the maximum excavation depth is 4 feet bgs.

Table 6 summarizes the areas where construction excavation is anticipated to encounter soil assumed to contain COCs above applicable MACs. The table soil excavation volumes that are proposed within the impacted soil area that require proper handling and disposal if removed from the site. The assumed areas of impacted construction excavation are depicted on Figure 4.

3.5. Site 14 – John's Automotive Repair Shop

3.5.1 Site Field Observations and Sampling Rationale

Three soil samples were collected from borings 14-B01 through 14-B03 between 0 and 4 feet bgs. The boring locations are shown on Figure 4. AEI field personnel detected a petroleum odor from sample 14-B01 (0-2 ft). PID headspace screening readings in boring 14-B01 were 1.0 ppm and 4.9 ppm at one foot and two feet bgs, respectively.

3.5.2 Analytical Results

3.5.2.1 Soil

The analytical results for the soil samples are presented in Table 3d. Seven VOCs, one SVOC, and 16 metals were detected among the samples collected from site 14 between 0 and 4 feet bgs. Eleven metals were detected by SPLP analysis. Based on the results of SPLP analysis, TCLP iron, lead, and manganese analyses were performed among the samples.

The pH measurement of the sample from boring 14-B01 was outside the acceptable range (9.12). The pH measurements of the remaining samples from site 14 were within the acceptable range.

3.5.3 Nature and Extent of Contaminants of Concern

3.5.3.1 Soil

As shown in Table 4, the COCs in site soils are benzene, arsenic, iron, lead, and manganese.

- **Benzene** exceeded the most stringent MAC as well as the most stringent TACO Tier I Soil Remediation Objective for Residential Properties in sample 14-B01 (0-2 ft).
- **Arsenic** exceeded the most stringent MAC but was below the MSA MAC and the most stringent TACO Tier I Soil Remediation Objective for Residential Properties in samples 14-B01 (0-2 ft) and 14-B02 (0-4 ft).
- **Iron** exceeded the MSA MAC in sample 14-B01 (0-2 ft).
- **TCLP/SPLP Iron** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in sample 14-B01 (0-2 ft).
- **TCLP/SPLP Lead** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in sample 14-B01 (0-2 ft).
- **TCLP/SPLP Manganese** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in sample 14-B01 (0-2 ft).
- **Total Volatile Organic Compounds** were exceeded based upon an elevated PID reading in sample 14-B01 (0-2 ft).

Table 5 lists the COCs detected above applicable MACs and the estimated volume of impacted soil at each boring. Volumes of impacted soil are estimated without regard for property boundaries or planned excavation activities.

3.5.4 Construction Activities within Impacted Soil Areas

Proposed construction excavations for road resurfacing, sidewalk construction, driveway reconstruction, curb/gutter, storm sewer, and storm inlets are anticipated within site areas impacted by COCs. As indicated by CMT, the maximum excavation depth is 4 feet bgs.

Table 6 summarizes the areas where construction excavation is anticipated to encounter soil assumed to contain COCs above applicable MACs. The table includes soil excavation volumes that are proposed within the impacted soil area that require proper handling and disposal if

removed from the site. The assumed areas of impacted construction excavation are depicted on Figure 4.

3.6. Site 20 – Merlin Auto Service

3.6.1 Site Field Observations and Sampling Rationale

Three soil samples were collected from borings 20-B01 through 20-B03 between 0 and 4 feet bgs. The boring locations are shown on Figure 6. AEI field personnel did not observe odors or staining indicative of contamination in the soil samples collected from the borings, and PID headspace screening readings were not detected above background (0 ppm).

3.6.2 Analytical Results

3.6.2.1 Soil

The analytical results for the soil samples are presented in Table 3e. Five VOCs, four SVOCs and 16 metals were detected among the samples collected from site 20 between 0 and 4 feet bgs. Twelve metals were detected by SPLP analysis. Based on the results of SPLP analysis, TCLP iron, lead, and manganese analyses were performed among the samples.

The pH measurements of the samples from borings 20-B01 through -B03 were within the acceptable range.

3.6.3 Nature and Extent of Contaminants of Concern

3.6.3.1 Soil

As shown in Table 4, no COCs were found in site soils.

3.7. Site 23 – BP Gas Station

3.7.1 Site Field Observations and Sampling Rationale

Four soil samples, including one duplicate sample, were collected from borings 23-B01 through 23-B03 between 0 and 4 feet bgs. The boring locations are shown on Figure 6. AEI field personnel detected a petroleum odor from sample 23-B01 (0-4 ft). PID headspace screening readings from boring 23-B01 were 12.5 ppm and 14.7 ppm at three feet and four feet bgs, respectively.

3.7.2 Analytical Results

3.7.2.1 Soil

The analytical results for the soil samples are presented in Table 3f. Five VOCs and 16 metals were detected among the samples collected from site 23 between 0 and 4 feet bgs. Eleven metals were detected by SPLP analysis. Based on the results of SPLP analysis, TCLP iron, lead, and manganese analyses were performed among the samples.

The pH measurements of the samples from borings 23-B01 through -B03 were within the acceptable range.

3.7.3 Nature and Extent of Contaminants of Concern

3.7.3.1 Soil

As shown in Table 4, the COCs in site soils are benzene, arsenic, iron, manganese, and lead.

- **Benzene** exceeded the most stringent MAC as well as the most stringent TACO Tier I Soil Remediation Objective for Residential Properties in sample 23-B01 (0-4 ft).
- **Arsenic** exceeded the MSA MAC as well as the most stringent TACO Tier 1 Soil Remediation Objective for Residential Properties in sample 23-B03 (0-2 ft).
- **Arsenic** exceeded the most stringent MAC but was below the MSA MAC and the most stringent TACO Tier I Soil Remediation Objective for Residential Properties in sample 23-B01 (0-4 ft).
- **Iron** exceeded the MSA MAC in sample 23-B01 (0-4 ft).
- **Manganese** exceeded the MSA MAC but was below the most stringent TACO Tier 1 Soil Remediation Objective for Residential Properties in samples:
  - 23-B01 (0-4 ft)
  - 23-B03 (0-2 ft)
  - 23-B03 DUP (0-2 ft)
- **TCLP/SPLP Iron** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in sample 23-B01 (0-4 ft).
- **TCLP/SPLP Lead** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in sample 23-B01 (0-4 ft).
- **TCLP/SPLP Manganese** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in samples:
  - 23-B01 (0-4 ft)
  - 23-B03 (0-2 ft)
  - 23-B03 DUP (0-2 ft)
- **Total Volatile Organic Compounds** were exceeded based upon an elevated PID reading in sample 23-B01 (0-4 ft).

Table 5 lists the COCs detected above applicable MACs and the estimated volume of impacted soil at each boring. Volumes of impacted soil are estimated without regard for property boundaries or planned excavation activities.

3.7.4 Construction Activities within Impacted Soil Areas

Proposed construction excavations for road resurfacing, sidewalk construction, driveway reconstruction, curb/gutter, traffic signal conduit, storm sewer, and storm inlets are anticipated within site areas impacted by COCs. As indicated by CMT, the maximum excavation depth is 4 feet bgs.

Table 6 summarizes the areas where construction excavation is anticipated to encounter soil assumed to contain COCs above applicable MACs. The table includes soil excavation volumes that are proposed within the impacted soil area that require proper handling and disposal if

removed from the site. The assumed areas of impacted construction excavation are depicted on Figure 6.

3.8. Site 30 – UC Food Mart

3.8.1 Site Field Observations and Sampling Rationale

Three soil samples were collected from borings 30-B01 through 30-B03 between 0 and 4 feet bgs. The boring locations are shown on Figure 7. AEI field personnel did not observe odors or staining indicative of contamination in the soil samples collected from the borings, and PID headspace screening readings were not detected above background (0 ppm).

3.8.2 Analytical Results

3.8.2.1 Soil

The analytical results for the soil samples are presented in Table 3g. Five VOCs, one SVOC, and 16 metals were detected among the samples collected from site 30 between 0 and 4 feet bgs. Ten metals were detected by SPLP analysis. Based on the results of SPLP analysis, TCLP iron analysis was performed on two samples.

The pH measurements of the samples from borings 30-B01 through -B03 were within the acceptable range.

3.8.3 Nature and Extent of Contaminants of Concern

3.8.3.1 Soil

As shown in Table 4, the COC in site soils is arsenic.

- **Arsenic** exceeded the MSA MAC as well as the most stringent TACO Tier 1 Soil Remediation Objective for Residential Properties in samples 30-B02 (0-4 ft) and 30-B03 (0-2 ft)..
- **Arsenic** exceeded the most stringent MAC but was below the MSA MAC and the most stringent TACO Tier I Soil Remediation Objective for Residential Properties in sample 30-B01 (0-4 ft).

Table 5 lists the COCs detected above applicable MACs and the estimated volume of impacted soil at each boring. Volumes of impacted soil are estimated without regard for property boundaries or planned excavation activities.

3.8.4 Construction Activities within Impacted Soil Areas

Proposed construction excavations for road resurfacing, sidewalk construction, driveway reconstruction, curb/gutter, storm sewer, and storm inlets are anticipated within site areas impacted by COCs. As indicated by CMT, the maximum excavation depth is 4 feet bgs.

Table 6 summarizes the areas where construction excavation is anticipated to encounter soil assumed to contain COCs above applicable MACs. The table includes soil excavation volumes that are proposed within the impacted soil area that require proper handling and disposal if

removed from the site. The assumed areas of impacted construction excavation are depicted on Figure 7.

3.9. Site 31 – Commercial Businesses

3.9.1 Site Field Observations and Sampling Rationale

Three soil samples, including one duplicate sample, were collected from borings 31-B01 and 31-B02 between 0 and 4 feet bgs. The boring locations are shown on Figures 7 and 8. AEI field personnel did not observe odors or staining indicative of contamination in the soil samples collected from the borings, and PID headspace screening readings were not detected above background (0 ppm).

3.9.2 Analytical Results

3.9.2.1 Soil

The analytical results for the soil samples are presented in Table 3h. Three VOCs and 16 metals were detected among the samples collected from site 31 between 0 and 4 feet bgs. Twelve metals were detected by SPLP analysis. Based on the results of SPLP analysis, TCLP iron, lead, and manganese analyses were performed among the samples.

The pH measurement of the sample from boring 31-B02 DUP was outside the acceptable range (9.41). The pH measurements of the remaining samples from site 31 were within the acceptable range.

3.9.3 Nature and Extent of Contaminants of Concern

3.9.3.1 Soil

As shown in Table 4, the COCs in site soils are arsenic and manganese.

- **Arsenic** exceeded the MSA MAC as well as the most stringent TACO Tier 1 Soil Remediation Objective for Residential Properties in sample 31-B02 (0-4 ft).
- **TCLP/SPLP Manganese** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in sample 31-B02 DUP (0-4 ft).

Table 5 lists the COCs detected above applicable MACs and the estimated volume of impacted soil at each boring. Volumes of impacted soil are estimated without regard for property boundaries or planned excavation activities.

3.9.3.2 *Land Acquisition Soil*

As shown in Table 4 and on Figure 8, the COC in site soils (with adjacent proposed ROW acquisition) that exceed the most stringent TACO Tier 1 soil remediation objective is arsenic.

- **Arsenic** exceeded the most stringent TACO Tier 1 soil remediation objective (13 mg/kg – ingestion route) in sample 31-B02 (0-4 ft).

3.9.4 Construction Activities within Impacted Soil Areas

Proposed construction excavations for road resurfacing, sidewalk construction, curb/gutter, storm sewer, and storm inlets are anticipated within site areas impacted by COCs. As indicated by CMT, the maximum excavation depth is 4 feet bgs.

Table 6 summarizes the areas where construction excavation is anticipated to encounter soil assumed to contain COCs above applicable MACs. The table includes soil excavation volumes that are proposed within the impacted soil area that require proper handling and disposal if removed from the site. The assumed area of impacted construction excavation is depicted on Figures 7 and 8.

3.9.5 Potential City of Peoria Property Acquisition

According to CMT's proposed plans, additional ROW will be acquired at site 31. Based on assumptions for estimating impacted soil volumes, the impacted area within the limits of property acquisition includes one area. The area (associated with boring -B02) totals approximately 3,675 square feet. Contaminated soils exceeding TACO Tier 1 soil remediation objectives are present between 0 and 4 feet bgs. As shown on Table 8, the estimated acquisition volume based on the volume of impacted soil within the proposed ROW at this site is approximately 54 cubic yards. The volume of impacted soil is estimated without regard for property boundaries or planned excavation activities.

3.10. Site 43 – Empty Lot

3.10.1 Site Field Observations and Sampling Rationale

Four soil samples were collected from borings 43-B01 through 43-B03 between 0 and 14 feet bgs. The boring locations are shown on Figure 11. AEI field personnel detected a petroleum odor in boring –B02 between 2.5 and 14 feet bgs. PID headspace screening readings in boring -B02 ranged from 16.2 to 425 ppm between 4 and 14 feet bgs. The highest PID headspace screening reading was observed at 10 feet bgs.

3.10.2 Analytical Results

3.10.2.1 Soil

The analytical results for the soil samples are presented in Table 3i. Eight VOCs, two SVOCs, and 16 metals were detected among the samples collected from site 43 between 0 and 14 feet bgs. Ten metals were detected by SPLP analysis. Based on the results of SPLP analysis, TCLP iron and lead analyses were performed on two samples.

The pH measurements of the samples from borings 43-B01 through -B03 were within the acceptable range.

3.10.3 Nature and Extent of Contaminants of Concern

3.10.3.1 Soil

As shown in Table 4, the COCs in site soils are benzene, arsenic, and lead.

- **Benzene** exceeded the most stringent MAC as well as the most stringent TACO Tier I Soil Remediation Objective for Residential Properties in sample 43-B02-2 (7-14 ft).
- **Arsenic** exceeded the MSA MAC as well as the most stringent TACO Tier 1 Soil Remediation Objective for Residential Properties in sample 43-B02-1 (0-7 ft).
- **TCLP/SPLP Lead** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in sample 43-B02-1 (0-7 ft).
- **Total Volatile Organic Compounds** were exceeded based upon an elevated PID reading in samples 43-B02-1 (0-7 ft) and 43-B02-2 (7-14 ft).

Table 5 lists the COCs detected above applicable MACs and the estimated volume of impacted soil at each boring. Volumes of impacted soil are estimated without regard for property boundaries or planned excavation activities.

3.10.4 Construction Activities within Impacted Soil Areas

Proposed construction excavations for road resurfacing, sidewalk construction, curb/gutter, storm inlets, and traffic signal mast arm foundations are anticipated within site areas impacted by COCs. As indicated by CMT, the maximum excavation depth is 14 feet bgs.

Table 6 summarizes the areas where construction excavation is anticipated to encounter soil assumed to contain COCs above applicable MACs. The table includes soil excavation volumes that are proposed within the impacted soil area that require proper handling and disposal if removed from the site. The assumed areas of impacted construction excavation are depicted on Figure 11.

3.11. Site 44 – Fred's Shoe Repair

3.11.1 Site Field Observations and Sampling Rationale

Four soil samples were collected from borings 44-B01 through 44-B03 between 0 and 14 feet bgs. The boring locations are shown on Figure 11. AEI field personnel detected a petroleum odor in borings 44-B02 (between 1 and 4 feet bgs) and 44-B03 (between 10 and 14 feet bgs). PID headspace screening readings in boring 44-B02 were 131 ppm and 126 ppm at two and four feet, respectively. PID headspace screening readings observed in boring 44-B03 between 11 and 14 feet bgs ranged from 7.6 to 91.3 ppm. The highest PID headspace screening reading was observed at 13 feet bgs.

3.11.2 Analytical Results

3.11.2.1 Soil

The analytical results for the soil samples are presented in Table 3j. Six VOCs, nine SVOCs, and 16 metals were detected among the samples collected from site 44 between 0 and 14 feet bgs. Twelve metals were detected by SPLP analysis. Based on the results of SPLP analysis, TCLP iron, lead, and manganese analyses were performed among the samples.

The pH measurement of the sample from boring 44-B03-1 was outside the acceptable range (9.13). The pH measurements of the remaining samples from site 44 were within the acceptable range.

3.11.3 Nature and Extent of Contaminants of Concern

3.11.3.1 Soil

As shown in Table 4, the COCs in site soils are ethylbenzene, xylenes, arsenic, iron, manganese, and lead.

- **Ethylbenzene** exceeded the most stringent MAC as well as the most stringent TACO Tier 1 Soil Remediation Objective for Residential Properties in sample 44-B02 (0-4 ft).
- **Xylenes** exceeded the most stringent MAC but was below the most stringent TACO Tier 1 Soil Remediation Objective for Residential Properties in sample 44-B02 (0-4 ft).
- **Arsenic** exceeded the MSA MAC as well as the most stringent TACO Tier 1 Soil Remediation Objective for Residential Properties in samples 44-B01 (0-2 ft) and 44-B03-1 (0-7 ft).
- **Arsenic** exceeded the most stringent MAC but was below the MSA MAC and the most stringent TACO Tier I Soil Remediation Objective for Residential Properties in sample 44-B02 (0-4 ft).
- **Iron** exceeded the MSA MAC in samples 44-B01 (0-2 ft) and 44-B02 (0-4 ft).
- **Manganese** exceeded the MSA MAC but was below the most stringent TACO Tier 1 Soil Remediation Objective for Residential Properties in samples 44-B02 (0-4 ft) and 44-B03-1 (0-7 ft).
- **TCLP/SPLP Iron** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in samples 44-B01 (0-2 ft) and 44-B02 (0-4 ft).
- **TCLP/SPLP Lead** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in sample 44-B01 (0-2 ft) and 44-B02 (0-4 ft).
- **TCLP/SPLP Manganese** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in samples:
  - 44-B01 (0-2 ft)
  - 44-B02 (0-4 ft)
  - 44-B03-1 (0-7 ft)
- **Total Volatile Organic Compounds** were exceeded based upon an elevated PID reading in samples 44-B02 (0-4 ft) and 44-B03-2 (7-14 ft).

Table 5 lists the COCs detected above applicable MACs and the estimated volume of impacted soil at each boring. Volumes of impacted soil are estimated without regard for property boundaries or planned excavation activities.

3.11.4 Construction Activities within Impacted Soil Areas

Proposed construction excavations for road resurfacing, sidewalk construction, driveway reconstruction, curb/gutter, storm sewer, storm inlets, and traffic signal mast arm foundations are anticipated within site areas impacted by COCs. As indicated by CMT, the maximum excavation depth is 14 feet bgs.

Table 6 summarizes the areas where construction excavation is anticipated to encounter soil assumed to contain COCs above applicable MACs. The table includes soil excavation volumes that are proposed within the impacted soil area that require proper handling and disposal if removed from the site. The assumed areas of impacted construction excavation are depicted on Figure 11.

3.12. Site 46 – Commercial Stores

3.12.1 Site Field Observations and Sampling Rationale

Five soil samples, including one duplicate sample, were collected from borings 46-B01 through 46-B03 between 0 and 14 feet bgs. The boring locations are shown on Figure 11. AEI field personnel did not observe odors or staining indicative of contamination in the soil samples collected from the borings, and PID headspace screening readings were not detected above background (0 ppm).

3.12.2 Analytical Results

3.12.2.1 Soil

The analytical results for the soil samples are presented in Table 3k. Seven VOCs, ten SVOCs and 17 metals were detected among the samples collected from site 44 between 0 and 14 feet bgs. Twelve metals were detected by SPLP analysis. Based on the results of SPLP analysis, TCLP iron, lead, and manganese analyses were performed among the samples.

The pH measurements of the samples from borings 46-B02, 46-B02 DUP, and 46-B03 were outside the acceptable range (9.39, 9.24, and 9.52 respectively). The pH measurements of the remaining samples from site 46 were within the acceptable range.

3.12.3 Nature and Extent of Contaminants of Concern

3.12.3.1 Soil

As shown in Table 4, the COCs in site soils are benzo(a)pyrene, iron, lead, and manganese.

- **Benzo(a)pyrene** exceeded the most stringent MAC but was below the MAC within a populated area in a non-MSA county in samples 46-B02 DUP (0-2 ft) and 46-B03 (0-4 ft).
- **Iron** exceeded the MSA MAC in sample 46-B01-2 (7-14 ft).
- **TCLP/SPLP Iron** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in sample 46-B01-2 (7-14 ft).
- **TCLP/SPLP Lead** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in sample 46-B01-2 (7-14 ft).
- **TCLP/SPLP Manganese** exceeded the Tier I concentration for the soil component of the groundwater ingestion exposure route in sample 46-B01-1 (0-7 ft).

Table 5 lists the COCs detected above applicable MACs and the estimated volume of impacted soil at each boring. Volumes of impacted soil are estimated without regard for property boundaries or planned excavation activities.

3.12.4 Construction Activities within Impacted Soil Areas

Proposed construction excavations for road resurfacing, sidewalk construction, driveway reconstruction, curb/gutter, storm inlets, and traffic signal mast arm foundation are anticipated within site areas impacted by COCs. As indicated by CMT, the maximum excavation depth is 14 feet bgs.

Table 6 summarizes the areas where construction excavation is anticipated to encounter soil assumed to contain COCs above applicable MACs. The table includes soil excavation volumes that are proposed within the impacted soil area that require proper handling and disposal if removed from the site. The assumed areas of impacted construction excavation are depicted on Figure 11.

4. CONCLUSIONS AND RECOMMENDATIONS

AEI investigation identified the presence of COCs in project area soils. The contaminant concentrations, pH, and PID headspace screening results were evaluated for each site to determine proper management requirements for soil removed from the sites during construction. The analytical results of soil sampling indicate impacts to soils above all applicable MAC objectives in twelve areas within the proposed areas of construction. Soils that exceed all applicable MACs must be handled and disposed of as non-special waste if removed from the construction site for disposal.

In three areas, the analytical results exhibited impacts to soils above all applicable MAC objectives, but below the most stringent TACO Tier 1 Soil Remediation Objective for Residential Properties. Soils from this area can be utilized within the construction limits as fill, but cannot go to a CCDD/USFO.

The analytical results of soil sampling indicate impacts to soils above either the most stringent MACs and/or the Tier 1 concentration for the soil component of the groundwater ingestion exposure route (Class I) in five areas among multiple sites within the proposed areas of construction. The aforementioned soils can be utilized within the construction limits as fill or managed off-site as "uncontaminated soil" to a CCDD/USFO within a MSA County.

Soils that do not exceed the most stringent MACs can be managed on-site as fill or off-site as uncontaminated soil.

4.2. Soil Management Areas and Applicable Regulations

This section presents recommendations for proper management of soils based upon the results of AEI's investigation described herein.

4.2.1 Site 1 – Prairie Farms

- Station 35+80 to Station 37+80, 0 to 45 feet RT along University Street (Prairie Farms, Site 1, 2000-2010 N University Street): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Arsenic and manganese.

4.2.2 Site 10 – Parking Lot

- Station 42+85 to Station 43+36, 0 to 60 feet RT along University Street (Parking Lot, Site 10, 2139 N Gale Avenue): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Iron and Lead.

- Station 43+36 to Station 44+15, 0 to 45 feet RT along University Street (Parking Lot, Site 10, 2139 N Gale Avenue): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Iron, lead, and VOCs.

4.2.3 Site 13 – Midas Auto Service

- Station 45+47 to Station 45+89, 0 to 58 feet RT along University Street (Midas Auto Service, Site 13, 2200 N University Street): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Arsenic.

- Station 5+58 to Station 5+95, 0 to 50 feet LT along Brons Avenue (Midas Auto Service, Site 13, 2200 N University Street): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Arsenic.

- Station 45+89 to Station 46+69, 0 to 45 feet RT along University Street (Midas Auto Service, Site 13, 2200 N University Street): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Benzene, iron, lead, manganese, and VOCs.

4.2.4 Site 14 – John's Automotive Repair Shop

- Station 45+28 to Station 46+48, 0 to 70 feet LT along University Street (John's Automotive Repair Shop, Site 14, 2205 N University Street): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Arsenic.

- Station 3+26 to Station 4+08, 0 to 50 feet LT along Gale Avenue (John's Automotive Repair Shop, Site 14, 2205 N University Street): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Benzene, arsenic, iron, lead, manganese, and VOCs.

4.2.5 Site 23 – BP Gas Station

- Station 56+99 to Station 57+87, 0 to 45 feet RT along University Street (BP Gas Station, Site 23, 2416 N University Street): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Benzene, arsenic, iron, lead, manganese, and VOCs.

- Station 5+50 to Station 5+90, 0 to 35 feet RT along McClure Avenue (BP Gas Station, Site 23, 2416 N University Street): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Arsenic and manganese.

4.2.6 Site 30 – UC Food Mart

- Station 63+75 to Station 64+56, 0 to 45 feet RT along University Street (UC Food Mart, Site 30, 2604 N University Street): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Arsenic.

- Station 64+56 to Station 65+36, 0 to 95 feet RT along University Street (UC Food Mart, Site 30, 2604 N University Street): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Arsenic.

4.2.7 Site 31 – Commercial Businesses

- Station 66+10 to Station 67+02, 0 to 45 feet LT along University Street (Commercial Businesses, Site 31, 2615 N University Street): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Arsenic and manganese.

4.2.8 Site 43 – Empty Lot

- Station 84+42 to Station 85+32, 0 to 60 feet RT along University Street (Empty Lot, Site 43, 1228 W Loucks Avenue): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Benzene, arsenic, lead, and VOCs.

4.2.9 Site 44 – Fred's Shoe Repair Inc.

- Station 83+72 to Station 85+32, 0 to 100 feet LT along University Street (Fred's Shoe Repair Inc., Site 44, 3033 N University Street): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Arsenic, iron, lead, manganese, ethylbenzene, xylenes, and VOCs.

4.2.10 Site 46 – Commercial Stores

- Station 85+32 to Station 86+38, 0 to 95 feet RT along University Street (Commercial Stores, Site 46, 3108-3118 N University Street): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Iron, lead, and manganese.

- Station 86+38 to Station 88+21, 0 to 55 feet RT along University Street (Commercial Stores, Site 46, 3108-3118 N University Street): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. COCs sampling parameters: Benzo(a)pyrene.

4.3. Recommendations

4.3.1 Additional Investigations

Additional soil samples are not proposed at the project area. All environmental media collected have been analyzed and compared with maximum allowable remediation objectives and evaluated relative to proposed construction activities.

4.3.2 Construction Worker Health and Safety

This report presents analytical results of site soils. Construction worker health and safety are the sole responsibility of the construction contractor. OSHA regulations should be adhered to during all construction activities. Where the City of Peoria will be excavating and disposing of non-special waste, it is recommended a Health and Safety Plan be developed in accordance with 29 CFR 1910.120, and implemented during soil excavation activities.

5. REFERENCES

Andrews Engineering, Inc., February 2015. *Work Plan for the Preliminary Site Investigation of Twelve Potential Waste Sites Along FAU 6593 (University Street) Nebraska Avenue to Forrest Hill Avenue, Peoria, Peoria County, Illinois.*

Andrews Engineering, Inc. (AEI), December 19, 2014. Preliminary Environmental Site Assessment, North University Street, Peoria, Peoria County.

6. TABLES

March 25, 2015, Table 6 has been updated to provide a better estimate of the soil quantity to be removed.

Table 1
Report Qualifiers and Acronyms for Analytical Tables
University Street: Nebraska Avenue to Forrest Hill Avenue
Peoria, Peoria County, Illinois

Report Qualifiers and Acronyms:

J = Result is less than the reporting limit, but greater than or equal to the method detection limit. The concentration is an approximate value.

mg/kg = Milligrams per kilogram

mg/L = Milligrams per liter

ft = Feet

SPLP = Synthetic Precipitation Leaching Procedure

TCLP = Toxicity Characteristic Leaching Procedure

ND = Not Detected at or above the laboratory reporting limit.

NT = Not Tested

NA = No applicable comparison value is listed for this compound.

MAC = Maximum Allowable Concentrations of Chemical Constituents In Uncontaminated Soil Used as Fill Material At Regulated Fill Operations (35 Ill. Adm. Code 1100.Subpart F).

MSA = Metropolitan Statistical Area

m = As an alternative to the subject maximum allowable concentration value, compliance verification may be determined by comparing TCLP and/or SPLP results to the TACO Class I Soil Component of the Groundwater Ingestion Exposure Route objective (35 Ill. Admin. Code 742 Appendix A, Table A).

1 = Exceeds the most stringent MAC value.

2 = Exceeds the Outside a Populated Area MAC value.

3 = Exceeds the Populated Area in a Non-MSA County MAC value.

4 = Exceeds the Chicago Corporate Limits MAC value.

5 = Exceeds the Populated Area in a MSA, excluding Chicago value (least stringent).

6 = Exceeds Tier I concentration for the Soil Component of the Groundwater Ingestion Exposure Route, Class I (TACO Appendix B, Tables A and B). Where applicable, the Class I Standard has been substituted with the Achievable Detection Limit (ADL).

7 = Exceeds the most stringent TACO Tier 1 Soil Remediation Objective for Residential Properties. Where applicable, the Residential Standard has been substituted with the Achievable Detection Limit (ADL) or the applicable background value.

* = Exceeds the most stringent MAC value, but is below the most stringent TACO Tier 1 Soil Remediation Objectives for Residential Properties.

CCDD Eligible

not CCDD Eligible (greater than MSA MAC), but not non-special waste (below most stringent TACO Tier 1 Residential RO)

non-special waste (greater than MSA MAC, greater than most stringent TACO Tier 1 Residential RO)

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Table 4

Summary of Impacts and Contaminants of Concern

Peoria, Peoria County, Illinois

NOTES:		CCDD Eligible
		not CCDD Eligible (greater than MSA MAC), but not non-special waste (below most stringent TACO Tier 1 Residential RO)
		non-special waste (greater than MSA MAC, greater than most stringent TACO Tier 1 Residential RO)

Site 1

Prairie Farms

Sample ID	1-B01		1-B02		1-B03		1-B04		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4		0-2		0-2		0-2								
Sample Date	2/16/2015		2/16/2015		2/16/2015		2/16/2015								
PID	0		0		0		0								
Sample pH	8.04		7.89		8.58		7.99								
Matrix	Soil		Soil		Soil		Soil								
Inorganic Compounds, Total (mg/kg)															
Arsenic	**8.98**		**12.1**	1,3,*	**9.69**		**10.7**		11.3	NA	11.3	NA	13	NA	13
SPLP Metals (mg/L)															
Manganese	**0.0122**		**0.0958**		**0.175**	6	**0.0957**		m	NA	NA	NA	NA	0.15	NA
TCLP Metals (mg/L)															
Manganese	NT		NT		**1.42**	6	NT		m	NA	NA	NA	NA	0.15	NA

Site 10

Parking Lot

Sample ID	10-B01		10-B02		10-B03		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4		0-4		0-4								
Sample Date	2/16/2015		2/16/2015		2/16/2015								
PID	0		**2.6**		0								
Sample pH	7.95		8.58		8.17								
Matrix	Soil		Soil		Soil								
Inorganic Compounds, Total (mg/kg)													
Iron	**33100**	1,3,5	**29700**	1,3,5	**29300**		15,000	NA	15,000	NA	15,900	NA	NA
SPLP Metals (mg/L)													
Iron	**20.3**	6	**18.7**	6	**2.56**		m	NA	NA	NA	NA	5	NA
Lead	**0.0132**	6	**0.011**	6	**0.007**		m	NA	NA	NA	NA	0.0075	NA
TCLP Metals (mg/L)													
Iron	**12.3**	6	**11.9**	6	NT		m	NA	NA	NA	NA	5	NA
Lead	**0.0113**	6	**0.0129**	6	NT		m	NA	NA	NA	NA	0.0075	NA

Site 13

Midas Auto Service

Sample ID	13-B01		13-B02		13-B03		13-B03 DUP		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-2		0-4		0-4		0-4								
Sample Date	2/16/2015		2/16/2015		2/16/2015		2/16/2015								
PID	0		0		138		138								
Sample pH	9.18		8.18		8.81		9.06								
Matrix	Soil		Soil		Soil		Soil								
Volatile Organic Compounds (mg/kg)															
Benzene	ND		0.006		0.183	1,7	0.231	1,7	0.03	NA	NA	NA	NA	NA	0.03
Inorganic Compounds, Total (mg/kg)															
Arsenic	**13.8**	1,3,5,7	**12.7**	1,3,*	**6.05**		**10.4**		11.3	NA	11.3	NA	13	NA	13
Iron	**32400**		**21400**		**21700**	1,3,5	**30500**	1,3,5	15,000	NA	15,000	NA	15,900	NA	NA
Manganese	**942**		**724**		**1040**	1,3,5,*	**258**		630	NA	630	NA	636	NA	1,600
SPLP Metals (mg/L)															
Iron	**11.6**		**2.65**		**23.3**	6	**29.2**	6	m	NA	NA	NA	NA	5	NA
Lead	ND		ND		**0.027**	6	**0.0161**	6	m	NA	NA	NA	NA	0.0075	NA
Manganese	**0.0565**		**0.0398**		**0.221**	6	**0.126**		m	NA	NA	NA	NA	0.15	NA
TCLP Metals (mg/L)															
Iron	**0.234**		NT		**31.5**	6	**24.2**	6	m	NA	NA	NA	NA	5	NA
Lead	NT		NT		**0.0104**	6	**0.0111**	6	m	NA	NA	NA	NA	0.0075	NA
Manganese	NT		NT		**10.1**	6	NT		m	NA	NA	NA	NA	0.15	NA

Table 4

Summary of Impacts and Contaminants of Concern

Peoria, Peoria County, Illinois

NOTES:

	CCDD Eligible
	not CCDD Eligible (greater than MSA MAC), but not non-special waste (below most stringent TACO Tier 1 Residential RO)
	non-special waste (greater than MSA MAC, greater than most stringent TACO Tier 1 Residential RO)

Site 14

John's Automotive Repair Shop

Sample ID	14-B01		14-B02		14-B03		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-2		0-4		0-2								
Sample Date	2/16/2015		2/16/2015		2/16/2015								
PID	4.9		0		0								
Sample pH	9.12		7.78		8.39								
Matrix	Soil		Soil		Soil								
Volatile Organic Compounds (mg/kg)													
Benzene	**0.075**	**1,7**	ND		**0.001**		0.03	NA	NA	NA	NA	NA	0.03
Inorganic Compounds, Total (mg/kg)													
Arsenic	**13**	**1,3,***	**12.5**	**1,3,***	**9.4**		11.3	NA	11.3	NA	13	NA	13
Iron	**26700**	**1,3,5**	**30500**		**24900**		15,000	NA	15,000	NA	15,900	NA	NA
SPLP Metals (mg/L)													
Iron	**23.9**	**6**	**9.28**		**15.4**		m	NA	NA	NA	NA	5	NA
Lead	**0.0155**	**6**	ND		**0.008**		m	NA	NA	NA	NA	0.0075	NA
Manganese	**0.27**	**6**	**0.0392**		**0.0706**		m	NA	NA	NA	NA	0.15	NA
TCLP Metals (mg/L)													
Iron	**21**	**6**	ND		ND		m	NA	NA	NA	NA	5	NA
Lead	**0.009**	**6**	NT		ND		m	NA	NA	NA	NA	0.0075	NA
Manganese	**6.47**	**6**	NT		NT		m	NA	NA	NA	NA	0.15	NA

Site 20

Merlin Auto Service

Sample ID	20-B01	20-B02	20-B03	[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-2	0-4	0-4							
Sample Date	2/16/2015	2/16/2015	2/16/2015							
PID	0	0	0							
Sample pH	7.89	8.21	8.59							
Matrix	Soil	Soil	Soil							
No Contaminants of Concern Noted.										

Site 23

BP Gas Station

Sample ID	23-B01		23-B02		23-B03		23-B03 DUP		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4		0-4		0-2		0-2								
Sample Date	2/16/2015		2/16/2015		2/16/2015		2/16/2015								
PID	14.7		0		0		0								
Sample pH	7.06		7.53		8.28		7.95								
Matrix	Soil		Soil		Soil		Soil								
Volatile Organic Compounds (mg/kg)															
Benzene	**0.056**	**1,7**	ND		ND		ND		0.03	NA	NA	NA	NA	NA	0.03
Inorganic Compounds, Total (mg/kg)															
Arsenic	**12.6**	**1,3,***	**8.92**		**16.3**	**1,3,5,7**	**4.92**		11.3	NA	11.3	NA	13	NA	13
Iron	**30700**	**1,3,5**	**15400**		**34500**		**13600**		15,000	NA	15,000	NA	15,900	NA	NA
Manganese	**1550**	**1,3,5,***	**1870**		**747**	**1,3,5,***	**810**	**1,3,5,***	630	NA	630	NA	636	NA	1,600
SPLP Metals (mg/L)															
Iron	**23.6**	**6**	**4.15**		**34.8**		**15.4**		m	NA	NA	NA	NA	5	NA
Lead	**0.0177**	**6**	ND		**0.0187**		**0.0122**		m	NA	NA	NA	NA	0.0075	NA
Manganese	**0.262**	**6**	**0.043**		**0.586**	**6**	**0.156**	**6**	m	NA	NA	NA	NA	0.15	NA
TCLP Metals (mg/L)															
Iron	**15**	**6**	NT		**0.145**		**J 0.0159**		m	NA	NA	NA	NA	5	NA
Lead	**0.0261**	**6**	NT		ND		ND		m	NA	NA	NA	NA	0.0075	NA
Manganese	**5.9**	**6**	NT		**10.8**	**6**	**0.288**	**6**	m	NA	NA	NA	NA	0.15	NA

Table 4
Summary of Impacts and Contaminants of Concern
Peoria, Peoria County, Illinois

NOTES:

	CCDD Eligible
	not CCDD Eligible (greater than MSA MAC), but not non-special waste (below most stringent TACO Tier 1 Residential RO)
	non-special waste (greater than MSA MAC, greater than most stringent TACO Tier 1 Residential RO)

Site 30
UC Food Mart

Sample ID	30-B01		30-B02		30-B03		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4		0-4		0-2								
Sample Date	2/17/2015		2/17/2015		2/17/2015								
PID	0		0		0								
Sample pH	8.24		6.79		7.55								
Matrix	Soil		Soil		Soil								
Inorganic Compounds, Total (mg/kg)													
Arsenic	**12.1**	1,3,*	**14.7**	1,3,5,7	**16.5**	1,3,5,7	11.3	NA	11.3	NA	13	NA	13

Site 31
Commericial Businesses

Sample ID	31-B01		31-B02		31-B02 DUP		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4		0-4		0-4								
Sample Date	2/17/2015		2/17/2015		2/17/2015								
PID	0		0		0								
Sample pH	7.71		8.74		**9.41**								
Matrix	Soil		Soil		Soil								
Inorganic Compounds, Total (mg/kg)													
Arsenic	**8.21**		**13.3**	1,3,5,7	**8.42**		11.3	NA	11.3	NA	13	NA	13
SPLP Metals (mg/L)													
Manganese	**0.049**		**0.18**		**0.23**	6	m	NA	NA	NA	NA	0.15	NA
TCLP Metals (mg/L)													
Manganese	NT		**0.0259**		**2.68**	6	m	NA	NA	NA	NA	0.15	NA

Site 43
Empty Lot

Sample ID	43-B01		43-B02-1		43-B02-2		43-B03		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4		0-7		7-14		0-2								
Sample Date	2/17/2015		2/17/2015		2/17/2015		2/17/2015								
PID	0		**20.4**		**425**		0								
Sample pH	8.76		7.73		8.16		7.95								
Matrix	Soil		Soil		Soil		Soil								
Volatile Organic Compounds (mg/kg)															
Benzene	**0.004**		**0.015**		**0.319**	1,7	ND		0.03	NA	NA	NA	NA	NA	0.03
Inorganic Compounds, Total (mg/kg)															
Arsenic	J 2.25		**13.3**	1,3,5,7	**5.18**		**10.5**		11.3	NA	11.3	NA	13	NA	13
SPLP Metals (mg/L)															
Lead	ND		**0.0086**	6	ND		ND		m	NA	NA	NA	NA	0.0075	NA
TCLP Metals (mg/L)															
Lead	NT		**0.0124**	6	NT		NT		m	NA	NA	NA	NA	0.0075	NA

Table 4

Summary of Impacts and Contaminants of Concern

Peoria, Peoria County, Illinois

NOTES:

	CCDD Eligible
	not CCDD Eligible (greater than MSA MAC), but not non-special waste (below most stringent TACO Tier 1 Residential RO)
	non-special waste (greater than MSA MAC, greater than most stringent TACO Tier 1 Residential RO)

Site 44

Fred's Shoe Repair Inc.

Sample ID	44-B01		44-B02		44-B03-1		44-B03-2		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-2		0-4		0-7		7-14								
Sample Date	2/17/2015		2/17/2015		2/17/2015		2/17/2015								
PID	0		131		0		91.3								
Sample pH	7.92		7.32		9.13		8.26								
Matrix	Soil		Soil		Soil		Soil								
Volatile Organic Compounds (mg/kg)															
Ethylbenzene	ND		15.8	1,7	J 0.006		ND		13	NA	NA	NA	NA	NA	13
Xylenes, total	ND		107	1,*	0.013		ND		5.6	NA	NA	NA	NA	NA	150
Inorganic Compounds, Total (mg/kg)															
Arsenic	14.3	1,3,5,7	12.3	1,3,*	14.2	1,3,5,7	5.44		11.3	NA	11.3	NA	13	NA	13
Iron	33800	1,3,5	34200	1,3,5	29700		17100		15,000	NA	15,000	NA	15,900	NA	NA
Manganese	421		660	1,3,5,*	1200	1,3,5,*	400		630	NA	630	NA	636	NA	1,600
SPLP Metals (mg/L)															
Iron	20.3	6	15.6	6	47.6		2.39		m	NA	NA	NA	NA	5	NA
Lead	0.0167	6	0.0103	6	0.0115		ND		m	NA	NA	NA	NA	0.0075	NA
Manganese	0.184	6	0.193	6	0.156	6	0.0249		m	NA	NA	NA	NA	0.15	NA
TCLP Metals (mg/L)															
Iron	26.3	6	12.9	6	0.0275		NT		m	NA	NA	NA	NA	5	NA
Lead	0.0127	6	0.0106	6	ND		NT		m	NA	NA	NA	NA	0.0075	NA
Manganese	5.32	6	6.04	6	0.351	6	NT		m	NA	NA	NA	NA	0.15	NA

Site 46

Commercial Stores

Sample ID	46-B01-1		46-B01-2		46-B02		46-B02 DUP		46-B03		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-7		7-14		0-2		0-2		0-4								
Sample Date	2/17/2015		2/17/2015		2/17/2015		2/17/2015		2/17/2015								
PID	0		0		0		0		0								
Sample pH	8.39		8.71		9.39		9.24		9.52								
Matrix	Soil		Soil		Soil		Soil		Soil								
Semivolatile Organic Compounds (mg/kg)																	
Benzo(a)pyrene	ND		ND		ND		0.448	1,2,*	0.251	1,2,*	0.09	0.09	0.98	1.3	2.1	NA	2.1
Inorganic Compounds, Total (mg/kg)																	
Iron	26800		17500	1,3,5	10300		7380		21500		15,000	NA	15,000	NA	15,900	NA	NA
SPLP Metals (mg/L)																	
Iron	49.7		10.6	6	7.12		3.38		9.06		m	NA	NA	NA	NA	5	NA
Lead	0.0165		0.0086	6	0.0097		J 0.0065		0.0437		m	NA	NA	NA	NA	0.0075	NA
Manganese	0.223	6	0.0714		0.103		0.0362		0.0887		m	NA	NA	NA	NA	0.15	NA
TCLP Metals (mg/L)																	
Iron	J 0.0079		67	6	ND		NT		ND		m	NA	NA	NA	NA	5	NA
Lead	ND		0.0168	6	ND		NT		ND		m	NA	NA	NA	NA	0.0075	NA
Manganese	5.25	6	NT		NT		NT		NT		m	NA	NA	NA	NA	0.15	NA

Table 6

Estimated Volumes of Impacted Construction Excavation Soil
University Street: Nebraska Avenue to Forrest Hill Avenue
Peoria, Peoria County, Illinois

Impacted Soil Boring	Contaminants of Concern	Applicable Screening Criteria Exceeded	Impacted Stationing	Construction Excavation within Area of Impacted Soil	Estimated Vertical Extent of Impacted Construction Excavation Soil for Driveways, Sidewalk, and Curb/Gutter (feet)	Estimated Vertical Extent of Impacted Construction Excavation Soil for Storm Sewer and Inlets (feet)	AutoCAD Calculated Area of Impacted Construction Excavation Soil for Driveways, Sidewalk, and Curb/Gutter (square feet)	AutoCAD Calculated Area of Impacted Construction Excavation Soil for Storm Sewer and Inlets (square feet)	Estimated Volume of Impacted Construction Excavation Soil (cubic yards)	Off-site Management	
										Non-Special Waste	CCDD Eligible
Site 1, Prairie Farms											
1-B02	Arsenic	1,3,*	35+80 to 36+70, 0 to 45 feet RT	road resurfacing, sidewalk, curb/gutter	1	4	589	188	50		x
1-B03	Manganese	6	36+70 to 37+80, 0 to 45 feet RT	road resurfacing, sidewalk, driveway, curb/gutter	1	4	852	229	65		x
Site 10, Parking Lot											
10-B01	Iron, Lead	1,3,5,6	42+85 to 43+36, 0 to 60 feet RT	road resurfacing, sidewalk, curb/gutter, storm sewer	1	0	590	0	22	x	
10-B02	Iron, Lead, TVOCs (Elevated PID)	1,3,5,6	43+36 to 44+15, 0 to 45 feet RT	road resurfacing, sidewalk, driveway, curb/gutter, storm sewer, inlet	1	0	690	0	26	x	
Site 13, Midas Auto Service											
13-B01	Arsenic	1,3,5,7	5+58 to 5+95, 0 to 50 feet LT	road resurfacing, sidewalk, curb/gutter	1	0	494	0	18	x	
13-B02	Arsenic	1,3,*	45+47 to 45+89, 0 to 58 feet RT	road resurfacing, sidewalk, curb/gutter, storm sewer, inlet	1	4	622	46.6	30		x
13-B03	Benzene, Iron, Lead, Manganese, TVOCs (Elevated PID)	1,3,5,6,7	45+89 to 46+69, 0 to 45 feet RT	road resurfacing, sidewalk, curb/gutter, driveway, storm sewer, inlet	1	4	670	144.0	46	x	
13-B03 DUP	Benzene, Iron, Lead, TVOCs (Elevated PID)	1,3,5,6,7									
Site 14, John's Automotive Repair Shop											
14-B01	Benzene, Arsenic, Iron, Lead, Manganese, TVOCs (Elevated PID)	1,3,5,6,7	45+28 to 46+48, 0 to 70 feet LT	road resurfacing, sidewalk, curb/gutter, driveway	1	0	897	0	33	x	
14-B02	Arsenic	1,3,*	3+26 to 4+08, 0 to 50 feet LT	road resurfacing, sidewalk, curb/gutter, inlet	1	4	1135	10	42		x
Site 23, BP Gas Station											
23-B01	Benzene, Arsenic, Iron, Lead, Manganese, TVOCs (Elevated PID)	1,3,5,6,7	56+99 to 57+87, 0 to 45 feet RT	road resurfacing, sidewalk, curb/gutter, driveway, storm sewer	1	4	854	183	59	x	
23-B03	Arsenic, Manganese	1,3,5,7	5+50 to 5 +90, 0 to 35 feet RT	road resurfacing, sidewalk, curb/gutter	1	0	402	0	15	x	
23-B03 DUP	Manganese	1,3,5,6,*									
Site 30, UC Food Mart											
30-B01	Arsenic	1,3,*	63+75 to 64+56, 0 to 45 feet RT	road resurfacing, sidewalk, curb/gutter, driveway, storm sewer	1	4	727	169	52		x
30-B02	Arsenic	1,3,5,7	64+56 to 65+36, 0 to 45 feet RT	road resurfacing, sidewalk, curb/gutter, storm sewer, inlet	1	4	497	140	39	x	
30-B03	Arsenic	1,3,5,7	64+96 to 65+36, 45 to 95 feet RT	road resurfacing, sidewalk, curb/gutter, driveway	1	0	364	0	14	x	
Site 31, Commericial Businesses											
31-B02	Arsenic	1,3,5,7	66+10 to 67+02, 0 to 45 feet RT	road resurfacing, sidewalk, curb/gutter, storm sewer	1	4	1900	192	99	x	
31-B02 DUP	Manganese	6									

Table 6

Estimated Volumes of Impacted Construction Excavation Soil
University Street: Nebraska Avenue to Forrest Hill Avenue
Peoria, Peoria County, Illinois

Impacted Soil Boring	Contaminants of Concern	Applicable Screening Criteria Exceeded	Impacted Stationing	Construction Excavation within Area of Impacted Soil	Estimated Vertical Extent of Impacted Construction Excavation Soil for Driveways, Sidewalk, and Curb/Gutter (feet)	Estimated Vertical Extent of Impacted Construction Excavation Soil for Storm Sewer and Inlets (feet)	AutoCAD Calculated Area of Impacted Construction Excavation Soil for Driveways, Sidewalk, and Curb/Gutter (square feet)	AutoCAD Calculated Area of Impacted Construction Excavation Soil for Storm Sewer and Inlets (square feet)	Estimated Volume of Impacted Construction Excavation Soil (cubic yards)	Off-site Management	
										Non-Special Waste	CCDD Eligible
Site 43, Empty Lot											
43-B02-1	Arsenic, Lead, TVOCs (Elevated PID)	1,3,5,6,7	84+42 to 85+32, 0 to 60 feet RT	road resurfacing, sidewalk, curb/gutter, inlet, traffic signal installation	1	4	1509	101	76**	x	
43-B02-2	Benzene, TVOCs (Elevated PID)	1,7									
Site 44, Fred's Shoe Repair Inc.											
44-B01	Arsenic, Iron, Lead, Manganese	1,3,5,6,7	83+72 to 84+10, 0 to 60 feet LT	road resurfacing, sidewalk, curb/gutter, driveway	1	0	638	0	24	x	
44-B02	Benzene, Ethylbenzene, Xylenes, Arsenic, Iron, Lead, Manganese, TVOCs (Elevated PID)	1,3,5,6,7	84+10 to 84+61, 0 to 100 feet LT	road resurfacing, sidewalk, curb/gutter	1	0	962	0	36	x	
44-B03-1	Arsenic, Manganese	1,3,5,6,7	84+61 to 85+32, 0 to 100 feet LT	road resurfacing, sidewalk, curb/gutter, traffic signal installation	1	0	1923	0	76**	x	
44-B03-2	TVOCs (Elevated PID)	PID									
Site 46, Commercial Stores											
46-B01-1	Manganese	6	85+32 to 86+38, 0 to 95 feet RT	road resurfacing, sidewalk, curb/gutter, traffic signal installation	1	4	1150	10	49**	x	
46-B01-2	Iron, Lead	1,3,5,6									
46-B02 DUP	Benzo(a)pyrene	1,2,*	86+38 to 87+20, 0 to 55 feet RT	road resurfacing, sidewalk, curb/gutter, inlet, storm sewer	1	4	945	60	44	x	
46-B03	Benzo(a)pyrene	1,2,*	87+20 to 88+21, 0 to 45 feet RT	road resurfacing, sidewalk, curb/gutter, inlet	1	4	424	20	19	x	

Applicable Screening Criteria

1 = Exceeds the most stringent MAC value.

2 = Exceeds the Outside a Populated Area MAC value.

3 = Exceeds the Populated Area in a Non-MSA County MAC value.

4 = Exceeds the Chicago Corporate Limits MAC value.

5 = Exceeds the Populated Area in a MSA, excluding Chicago value (least stringent).

6 = Exceeds Tier I concentration for the Soil Component of the Groundwater Ingestion Exposure Route, Class I (TACO Appendix B, Tables A and B). Where applicable, the Class I Standard has been substituted with the Achievable Detection Limit (ADL).

7 = Exceeds the most stringent TACO Tier 1 Soil Remediation Objectives for Residential Properties.

* = Exceeds the most stringent MAC value, but is below the TACO Tier 1 Soil Remediation Objectives for Residential Properties.

Estimated Volume Notes

** = A volume of five (5) cubic yards for mast arm construction excavation was included as part of the estimated volume of impacted soil, not shown in the table.

7. FIGURES

Figure 1: **Project Location Map**
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

Figure 2: **Boring Location Map**
Site 1
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

Figure 3: **Boring Location Map and Contaminants of Concern**
Site 1
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

Figure 4: **Boring Location Map**
Sites 10, 13 & 14
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

Figure 4A: **Contaminants of Concern**
Site 10
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

Figure 4B: **Contaminants of Concern**
Sites 13 & 14
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

Figure 5: **Boring Location Map**
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

Figure 6: **Boring Location Map**
Sites 20 & 23
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

Figure 6A: **Contaminants of Concern**
Site 23
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

Figure 7: **Boring Location Map and Contaminants of Concern**
Sites 30 & 31
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

Figure 8: **Boring Location Map and Contaminants of Concern**
Site 31
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

Figure 9: **Boring Location Map**
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

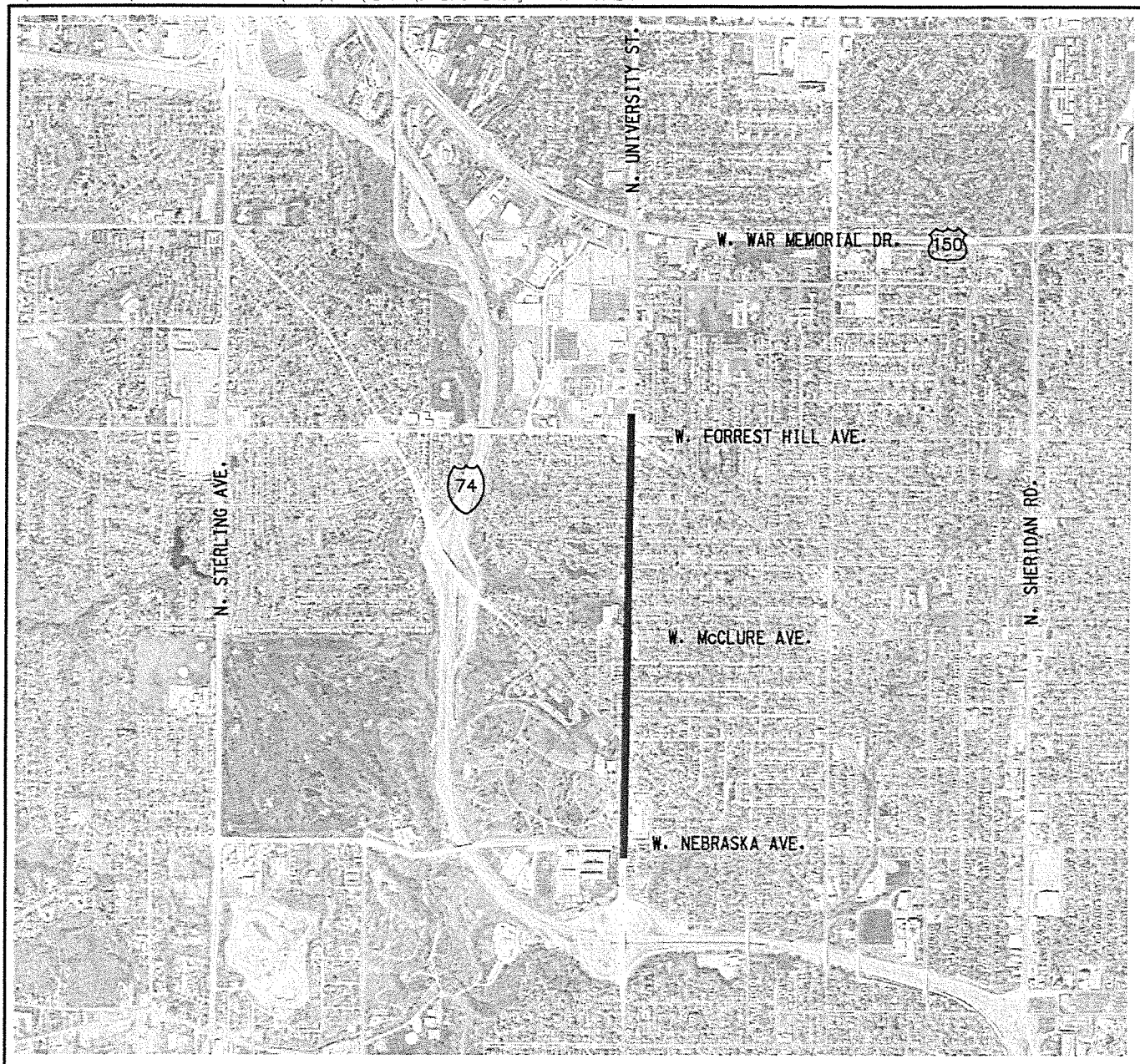
Figure 10: **Boring Location Map**
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

Figure 11: **Boring Location Map**
Sites 42, 43, 44 & 46
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

Figure 11A: **Contaminants of Concern**
Site 43
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

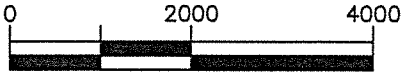
Figure 11B: **Contaminants of Concern**
Sites 44 & 46
FAU 6593 (University Street)
Peoria, Peoria County, Illinois

T:\CMT2015 Peoria\Nebraska to Forrest Hill (South)\DWG\REPORT\CMT2015 PLM.dwg Tab: FIGURE 1



PROJECT AND SITE LOCATION MAP
FAU 6593 (UNIVERSITY STREET)

NOTE:
2005 ILLINOIS NATIONAL AERIAL PHOTOGRAPHY PROGRAM (NAPP) DIGITAL ORTHOPHOTOGRAPHY QUARTER (DOQ) OF THE PEORIA EAST & WEST QUADRANGLES FROM ILLINOIS NATURAL RESOURCES GEOSPATIAL DATA CLEARINGHOUSE.



SCALE: IN FEET

PROJECT LOCATION

ANDREWS ENGINEERING, INC.
3300 Ginger Creek Drive, Springfield, IL 62711-7233
Tel (217) 787-2334 Fax (217) 787-9495
Pontiac, IL • Naperville, IL • Indianapolis, IN • Warrenton, MO
Professional Design Engineering and Land Surveying Firm #184-001541

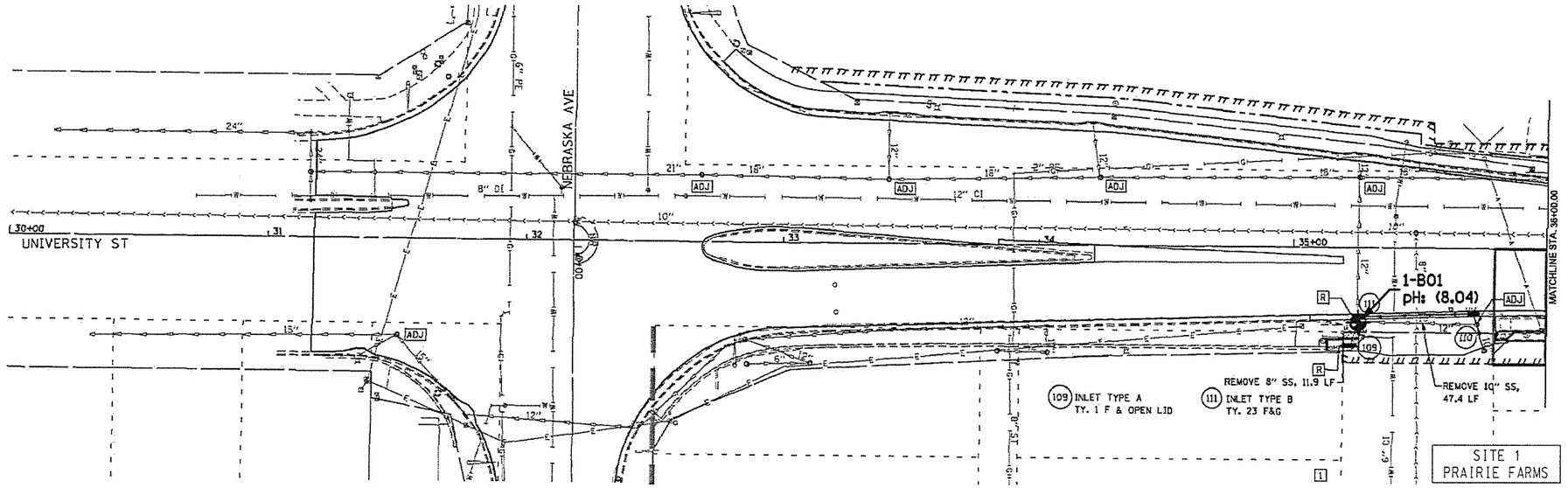
APPROVED BY: CEF	DESIGNED BY: CMT	DRAWN BY: MPN

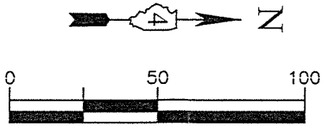
PROJECT AND SITE LOCATION MAP

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
FAU 6593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

DATE: MARCH 2015
PROJECT ID: 150166
SHEET NUMBER:

FIG. 1





LEGEND

- SITE LIMIT
- SOIL BORING LOCATION
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE CONTAMINANTS OF CONCERN IN SOIL EXCEED THE MOST STRINGENT MACS BUT ARE BELOW LOCATION SPECIFIC MACS FOR A METROPOLITAN STATISTICAL AREA OR WHERE SOIL EXCEEDS THE TIER 1 CONCENTRATION FOR THE SOIL COMPONENT OF THE GROUNDWATER INGESTION EXPOSURE ROUTE

NOTES

1. FIGURES SHOWN ARE SCANNED IMAGES TAKEN FROM DRAWINGS PROVIDED BY OTHERS WHICH MAY EFFECT SCALING.
2. ALL UTILITIES SHOWN ARE APPROXIMATE IN LOCATION. BORING LOCATIONS MUST BE VERIFIED AND THE UTILITIES FIELD STAKED BY UTILITY SEARCH IN ACCORDANCE WITH THE WORK PLAN.

REVISIONS

NO.	DATE	DESCRIPTION	BY

ANDREWS ENGINEERING, INC.
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Tel (217) 787-2334 Fax (217) 787-9495
Pontiac, IL • Naperville, IL • Indianapolis, IN • Warrenton, MO
Professional Design Engineering and Land Surveying Firm #184-001541

APPROVED BY: CEF | DESIGNED BY: CMT | DRAWN BY: MPN

BORING LOCATION MAP

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
SITE 1
FAU 6593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

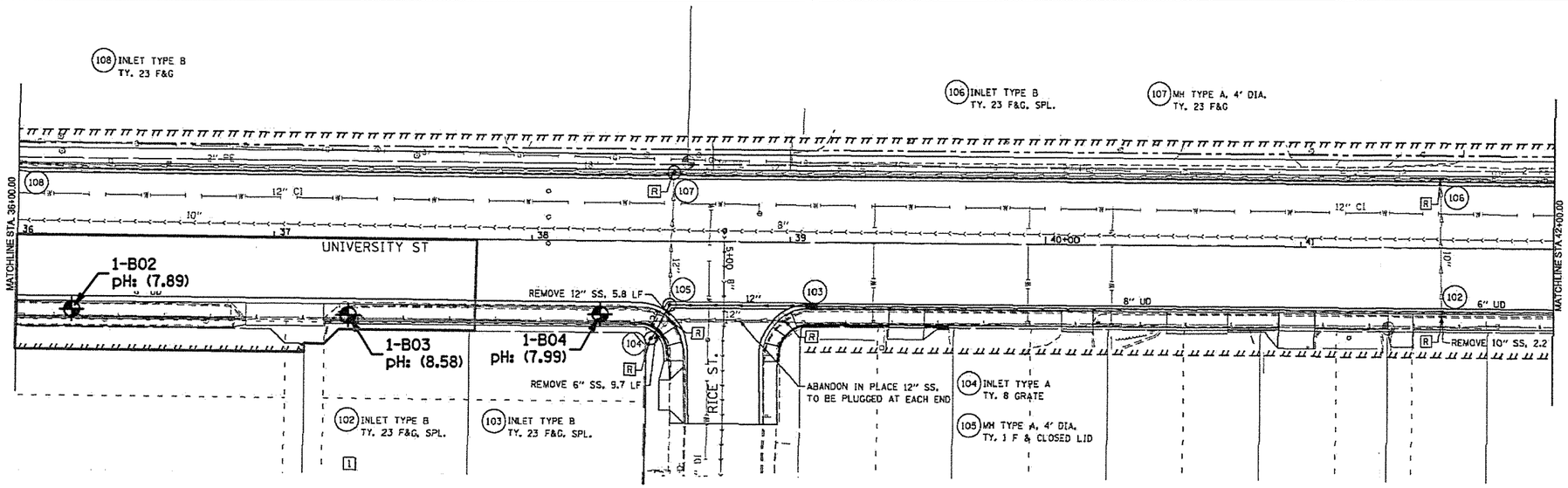
DATE: MARCH 2015

PROJECT ID: 150166

SHEET NUMBER:

FIG. 2

I:\CM12015 Peoria\Nebraska to Forrest Hill (South)\DWG\REPORT\CM12015 PSI.dwg Tab: FIGURE 2 Last Saved: March 5, 2015 by Mike Nguyen Plotted: Thursday, March 05, 2015 4:14:31 PM



SITE 1
PRAIRIE FARMS

Site 1
Prairie Farms

Sample ID	1-B02		1-B03		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-2		0-2								
Sample Date	2/16/2015		2/16/2015								
PID	0		0								
Sample pH	7.89		8.58								
Matrix	Soil		Soil								
Inorganic Compounds, Total (mg/kg)											
Arsenic	**12.1**	1,3,*	**9.69**		11.3	NA	11.3	NA	13	NA	13
SPLP Metals (mg/L)											
Manganese	**0.0958**		**0.175**	6	m	NA	NA	NA	NA	0.15	NA
TCLP Metals (mg/L)											
Manganese	NT		**1.42**	6	m	NA	NA	NA	NA	0.15	NA

NT = Not Tested
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
TCLP = Toxicity Characteristic Leaching Procedure
SPLP = Synthetic Precipitation Leaching Procedure
MAC = Maximum Allowable Concentrations of Chemical Constituents In Uncontaminated Soil Used as Fill Material At Regulated Fill Operations (35 Ill. Adm. Code 1100.Subpart F).
MSA = Metropolitan Statistical Area
1 = Exceeds the most stringent MAC value.
2 = Exceeds the Outside a Populated Area MAC value.
3 = Exceeds the Populated Area in a Non-MSA County MAC value.
4 = Exceeds the Chicago Corporate Limits MAC value.
5 = Exceeds the Populated Area in a MSA, excluding Chicago value (least stringent).
6 = Exceeds Tier I concentration for the Soil Component of the Groundwater Ingestion Exposure Route, Class I (TACO Appendix B, Tables A and B).
7 = Exceeds the most stringent TACO Tier 1 Soil Remediation Objectives for Residential Properties.
***** = Exceeds the most stringent MAC value, but is below the TACO Tier 1 Soil Remediation Objectives for Residential Properties.

CCDD Eligible
not CCDD Eligible (greater than MSA MAC), but not non-special waste (below most stringent TACO Tier 1 Residential RO)
non-special waste (greater than MSA MAC, greater than most stringent TACO Tier 1 Residential RO)

N

0 50 100

SCALE: IN FEET

LEGEND

SITE LIMIT

SOIL BORING LOCATION

PROPOSED CONSTRUCTION EXCAVATION AREA WHERE CONTAMINANTS OF CONCERN IN SOIL EXCEED THE MOST STRINGENT MACS BUT ARE BELOW LOCATION SPECIFIC MACS FOR A METROPOLITAN STATISTICAL AREA OR WHERE SOIL EXCEEDS THE TIER 1 CONCENTRATION FOR THE SOIL COMPONENT OF THE GROUNDWATER INGESTION EXPOSURE ROUTE

NOTES

1. FIGURES SHOWN ARE SCANNED IMAGES TAKEN FROM DRAWINGS PROVIDED BY OTHERS WHICH MAY EFFECT SCALING.
2. ALL UTILITIES SHOWN ARE APPROXIMATE IN LOCATION. BORING LOCATIONS MUST BE VERIFIED AND THE UTILITIES FIELD STAKED BY UTILITY SEARCH IN ACCORDANCE WITH THE WORK PLAN.

REVISIONS

NO.	DATE	DESCRIPTION	BY

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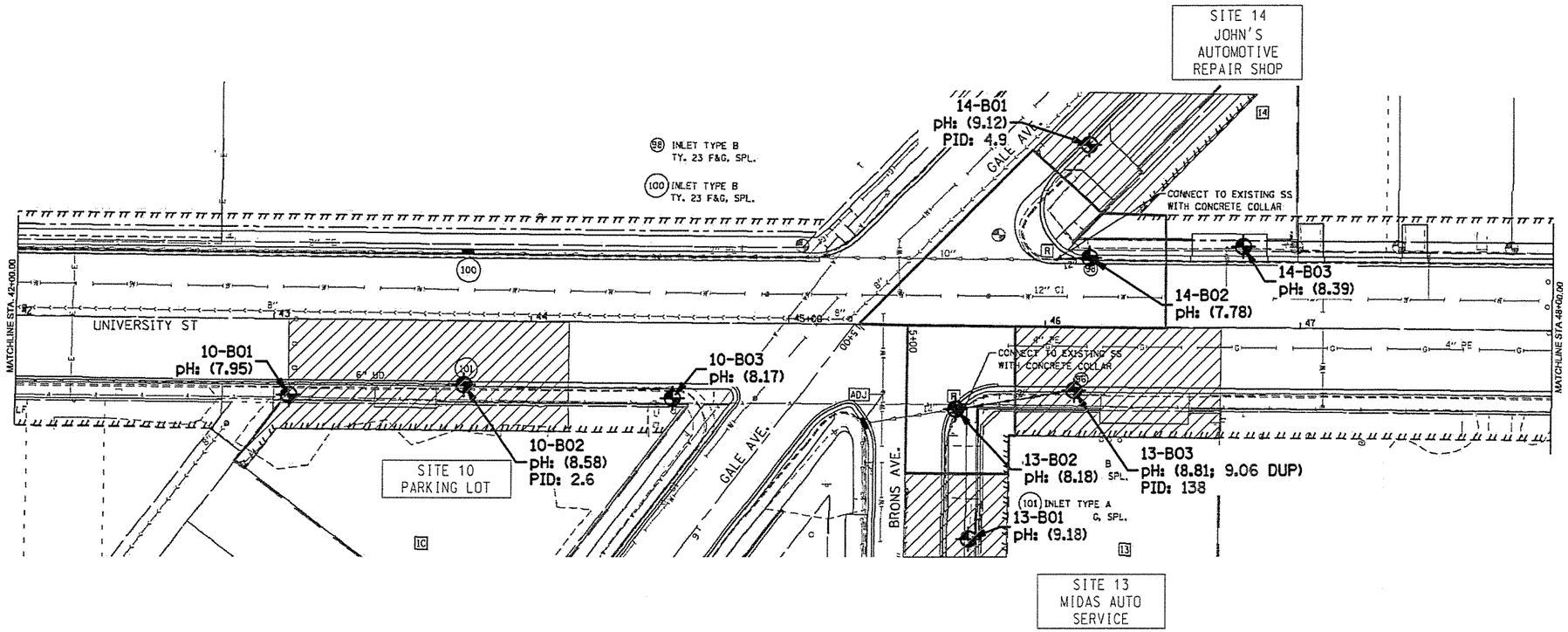
Pontiac, IL • Naperville, IL • Indianapolis, IN • Warrenton, MO
Professional Design Engineering and Land Surveying Firm #184-001541

APPROVED BY: CEF | DESIGNED BY: CMT | DRAWN BY: MPN

BORING LOCATION MAP AND CONTAMINANTS OF CONCERN

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
SITE 1
FAU 6593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

DATE: MARCH 2015
PROJECT ID: 150166
SHEET NUMBER: FIG. 3



LEGEND

- SITE LIMIT
- SOIL BORING LOCATION
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE CONTAMINANTS OF CONCERN IN SOIL EXCEED APPLICABLE MACs
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE CONTAMINANTS OF CONCERN IN SOIL EXCEED THE MOST STRINGENT MACS BUT ARE BELOW LOCATION SPECIFIC MACS FOR A METROPOLITAN STATISTICAL AREA OR WHERE SOIL EXCEEDS THE TIER 1 CONCENTRATION FOR THE SOIL COMPONENT OF THE GROUNDWATER INGESTION EXPOSURE ROUTE

NOTES

1. FIGURES SHOWN ARE SCANNED IMAGES TAKEN FROM DRAWINGS PROVIDED BY OTHERS WHICH MAY EFFECT SCALING.
2. ALL UTILITIES SHOWN ARE APPROXIMATE IN LOCATION. BORING LOCATIONS MUST BE VERIFIED AND THE UTILITIES FIELD STAKED BY UTILITY SEARCH IN ACCORDANCE WITH THE WORK PLAN.
3. CONTAMINANTS OF CONERN TABLES SHOWN ON FIGURE 4A AND FIGURE 4B.

REVISIONS

NO.	DATE	DESCRIPTION	BY

ANDREWS ENGINEERING, INC.
3300 Ginger Creek Drive, Springfield, IL 62711-7233
Tel (217) 787-2334 Fax (217) 787-9495
Pontiac, IL • Naperville, IL • Indianapolis, IN • Warrenton, MO
Professional Design Engineering and Land Surveying Firm #184-001541

APPROVED BY: CEF | DESIGNED BY: CMT | DRAWN BY: MPN

BORING LOCATION MAP

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
SITES 10, 13, & 14
FAU 6593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

DATE: MARCH 2015

PROJECT ID: 150166

SHEET NUMBER:

FIG. 4

T:\CMT2015 Peoria\Nebraska to Forrest Hill (South)\DWG\REPORT\CMT2015 PSI.dwg Tab: FIGURE 4 Last Saved: March 5, 2015, by Mike Nguyen Plotted: Thursday, March 05, 2015 8:21:22 AM

Site 10
Parking Lot

Sample ID	10-B01		10-B02		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4		0-4								
Sample Date	2/16/2015		2/16/2015								
PID	0		**2.6**								
Sample pH	7.95		8.58								
Matrix	Soil		Soil								
Inorganic Compounds, Total (mg/kg)											
Iron	**33100**	**1,3,5**	**29700**	**1,3,5**	15,000	NA	15,000	NA	15,900	NA	NA
SPLP Metals (mg/L)											
Iron	**20.3**	**6**	**18.7**	**6**	m	NA	NA	NA	NA	5	NA
Lead	**0.0132**	**6**	**0.011**	**6**	m	NA	NA	NA	NA	0.0075	NA
TCLP Metals (mg/L)											
Iron	**12.3**	**6**	**11.9**	**6**	m	NA	NA	NA	NA	5	NA
Lead	**0.0113**	**6**	**0.0129**	**6**	m	NA	NA	NA	NA	0.0075	NA

ND = Not Detected at or above the laboratory reporting limit.
NT = Not Tested
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
TCLP = Toxicity Characteristic Leaching Procedure
SPLP = Synthetic Precipitation Leaching Procedure
MAC = Maximum Allowable Concentrations of Chemical Constituents In Uncontaminated Soil Used as Fill Material At Regulated Fill Operations (35 Ill. Adm. Code 1100.Subpart F).
MSA = Metropolitan Statistical Area
1 = Exceeds the most stringent MAC value.
2 = Exceeds the Outside a Populated Area MAC value.
3 = Exceeds the Populated Area in a Non-MSA County MAC value.
4 = Exceeds the Chicago Corporate Limits MAC value.
5 = Exceeds the Populated Area in a MSA, excluding Chicago value (least stringent).
6 = Exceeds Tier I concentration for the Soil Component of the Groundwater Ingestion Exposure Route, Class I (TACO Appendix B, Tables A and B).
7 = Exceeds the most stringent TACO Tier 1 Soil Remediation Objectives for Residential Properties.
***** = Exceeds the most stringent MAC value, but is below the TACO Tier 1 Soil Remediation Objectives for Residential Properties.

CCDD Eligible
not CCDD Eligible (greater than MSA MAC), but not non-special w aste (below most stringent TACO Tier 1 Residential RO)
non-special w aste (greater than MSA MAC, greater than most stringent TACO Tier 1 Residential RO)

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Professional Design Engineering and Land Surveying Firm #184-001541

APPROVED BY: CEF | DESIGNED BY: CMT | DRAWN BY: MPN

CONTAMINANTS OF CONCERN

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
SITE 10
FAU 6593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

DATE: MARCH 2015
PROJECT ID: 150166
SHEET NUMBER:
FIG. 4A

Site 13
Midas Auto Service

Sample ID	13-B01		13-B02		13-B03		13-B03 DUP		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-2		0-4		0-4		0-4								
Sample Date	2/16/2015		2/16/2015		2/16/2015		2/16/2015								
PID	0		0		138		138								
Sample pH	9.18		8.18		8.81		9.06								
Matrix	Soil		Soil		Soil		Soil								
Volatile Organic Compounds (mg/kg)															
Benzene	ND		0.006		0.183	1,7	0.231	1,7	0.03	NA	NA	NA	NA	NA	0.03
Inorganic Compounds, Total (mg/kg)															
Arsenic	13.8	1,3,5,7	12.7	1,3,*	6.05		10.4		11.3	NA	11.3	NA	13	NA	13
Iron	32400		21400		21700	1,3,5	30500	1,3,5	15,000	NA	15,000	NA	15,900	NA	NA
Manganese	942		724		1040	1,3,5,*	258		630	NA	630	NA	636	NA	1,600
SPLP Metals (mg/L)															
Iron	11.6		2.65		23.3	6	29.2	6	m	NA	NA	NA	NA	5	NA
Lead	ND		ND		0.027	6	0.0161	6	m	NA	NA	NA	NA	0.0075	NA
Manganese	0.0565		0.0398		0.221	6	0.126		m	NA	NA	NA	NA	0.15	NA
TCLP Metals (mg/L)															
Iron	0.234		NT		31.5	6	24.2	6	m	NA	NA	NA	NA	5	NA
Lead	NT		NT		0.0104	6	0.0111	6	m	NA	NA	NA	NA	0.0075	NA
Manganese	NT		NT		10.1	6	NT		m	NA	NA	NA	NA	0.15	NA

Site 14
John's Automotive Repair Shop

Sample ID	14-B01		14-B02		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-2		0-4								
Sample Date	2/16/2015		2/16/2015								
PID	4.9		0								
Sample pH	9.12		7.78								
Matrix	Soil		Soil								
Volatile Organic Compounds (mg/kg)											
Benzene	0.075	1,7	ND		0.03	NA	NA	NA	NA	NA	0.03
Inorganic Compounds, Total (mg/kg)											
Arsenic	13	1,3,*	12.5	1,3,*	11.3	NA	11.3	NA	13	NA	13
Iron	26700	1,3,5	30500		15,000	NA	15,000	NA	15,900	NA	NA
SPLP Metals (mg/L)											
Iron	23.9	6	9.28		m	NA	NA	NA	NA	5	NA
Lead	0.0155	6	ND		m	NA	NA	NA	NA	0.0075	NA
Manganese	0.27	6	0.0392		m	NA	NA	NA	NA	0.15	NA
TCLP Metals (mg/L)											
Iron	21	6	ND		m	NA	NA	NA	NA	5	NA
Lead	0.009	6	NT		m	NA	NA	NA	NA	0.0075	NA
Manganese	6.47	6	NT		m	NA	NA	NA	NA	0.15	NA

REVISIONS | NO. | DATE | DESCRIPTION | BY

ANDREWS ENGINEERING, INC.
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Professional Design Engineering and Land Surveying Firm #184-001541

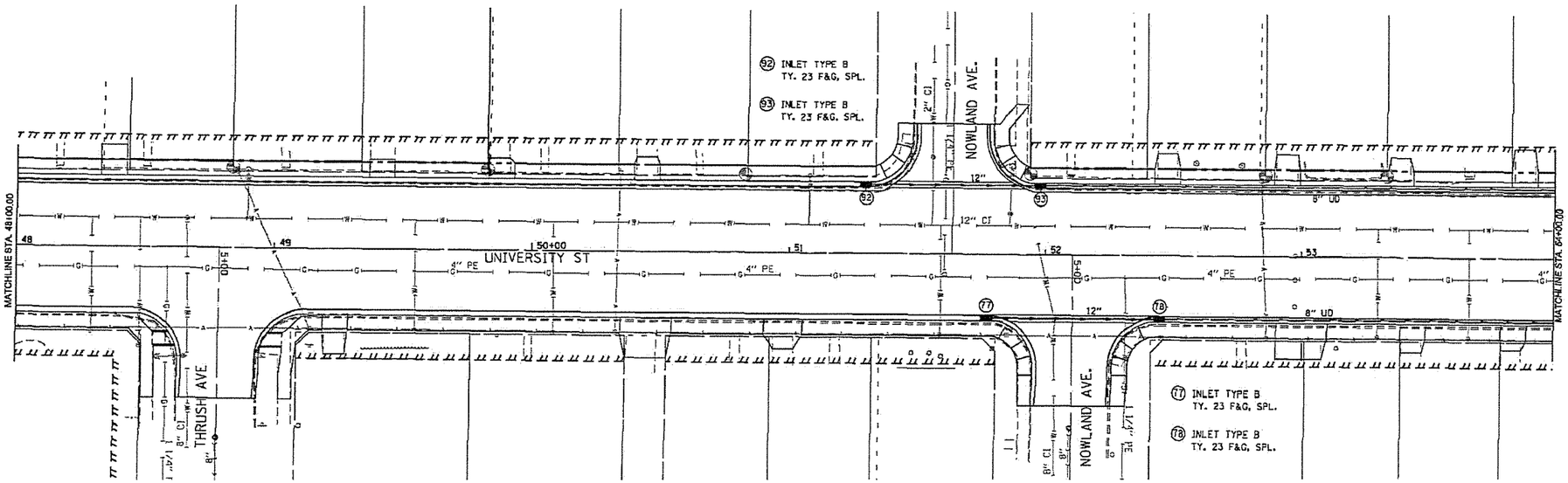
APPROVED BY: CEF | DESIGNED BY: CMT | DRAWN BY: MPN

CONTAMINANTS OF CONCERN

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
SITES 13 & 14
FAU 6593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

DATE: MARCH 2015
PROJECT ID: 150166
SHEET NUMBER:

FIG. 4B



NO BORINGS ON THIS FIGURE.
THE FIGURE IS INCLUDED FOR
CONTINUITY AND CLARITY

N

0 50 100

SCALE: IN FEET

NOTES

1. FIGURES SHOWN ARE SCANNED IMAGES TAKEN FROM DRAWINGS PROVIDED BY OTHERS WHICH MAY EFFECT SCALING.
2. ALL UTILITIES SHOWN ARE APPROXIMATE IN LOCATION. BORING LOCATIONS MUST BE VERIFIED AND THE UTILITIES FIELD STAKED BY UTILITY SEARCH IN ACCORDANCE WITH THE WORK PLAN.

NO.	DATE	REVISIONS DESCRIPTION	BY

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Tel (217) 787-2334 Fax (217) 787-9495
Pontiac, IL • Naperville, IL • Indianapolis, IN • Warrenton, MO
Professional Design Engineering and Land Surveying Firm #184-001541

APPROVED BY: CEF | DESIGNED BY: CMT | DRAWN BY: MPN

BORING LOCATION MAP

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
FAU 6593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

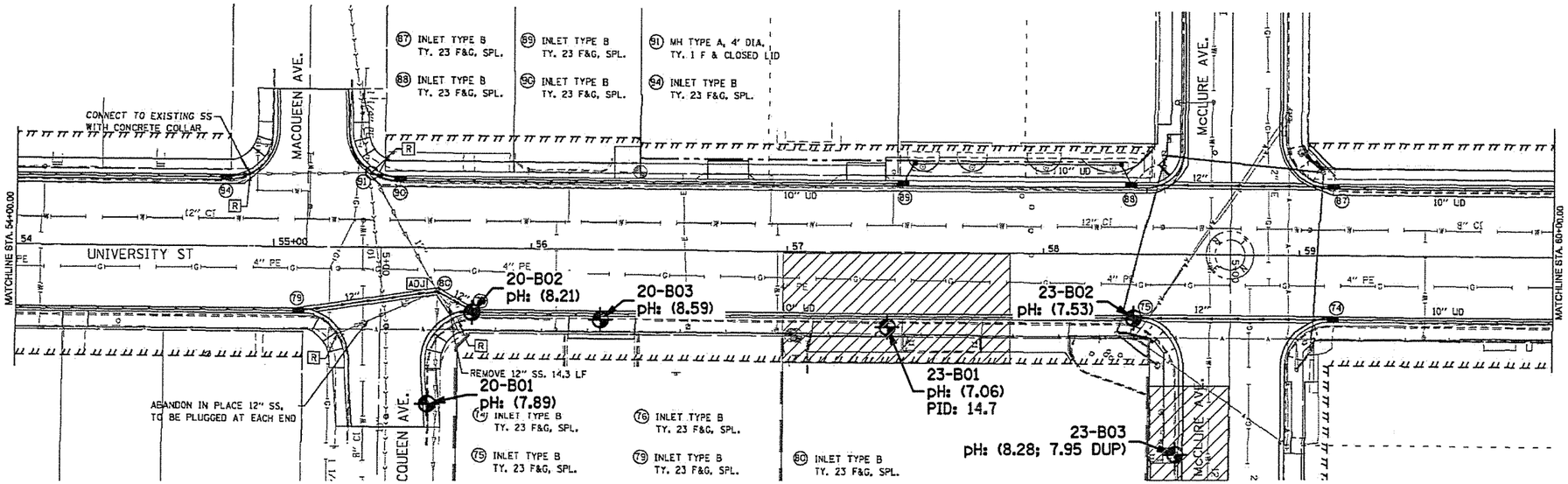
DATE: MARCH 2015

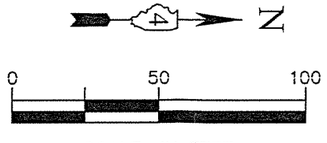
PROJECT ID: 150166

SHEET NUMBER:

FIG. 5

T:\CMT2015 Peoria\Nebraska to Forrest Hill (South)\DWG\REPORT\CMT2015 PSI.dwg Tab: FIGURE 5 Last Saved: March 3, 2015, by Mike Nguyen Plotted: Tuesday, March 03, 2015 2:24:23 PM





LEGEND

- SITE LIMIT
- SOIL BORING LOCATION
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE CONTAMINANTS OF CONCERN IN SOIL EXCEED APPLICABLE MACs

NOTES

1. FIGURES SHOWN ARE SCANNED IMAGES TAKEN FROM DRAWINGS PROVIDED BY OTHERS WHICH MAY EFFECT SCALING.
2. ALL UTILITIES SHOWN ARE APPROXIMATE IN LOCATION. BORING LOCATIONS MUST BE VERIFIED AND THE UTILITIES FIELD STAKED BY UTILITY SEARCH IN ACCORDANCE WITH THE WORK PLAN.
3. CONTAMINANTS OF CONCERN TABLES SHOWN ON FIGURE 6A.
4. NO CONTAMINANTS OF CONCERN NOTED FOR SITE 20.

REVISIONS

NO.	DATE	DESCRIPTION	BY

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Professional Design Engineering and Land Surveying Firm #184-001541

DESIGNED BY: CMT | DRAWN BY: MPN
APPROVED BY: CEF

BORING LOCATION MAP

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
SITES 20 & 23
FAU 6593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

DATE: MARCH 2015
PROJECT ID: 150166
SHEET NUMBER:

FIG. 6

Site 23
BP Gas Station

Sample ID	23-B01		23-B03		23-B03 DUP		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4		0-2		0-2								
Sample Date	2/16/2015		2/16/2015		2/16/2015								
PID	**14.7**		0		0								
Sample pH	7.06		8.28		7.95								
Matrix	Soil		Soil		Soil								
Volatile Organic Compounds (mg/kg)													
Benzene	**0.056**	**1,7**	ND		ND		0.03	NA	NA	NA	NA	NA	0.03
Inorganic Compounds, Total (mg/kg)													
Arsenic	**12.6**	**1,3,***	**16.3**	**1,3,5,7**	**4.92**		11.3	NA	11.3	NA	13	NA	13
Iron	**30700**	**1,3,5**	**34500**		**13600**		15,000	NA	15,000	NA	15,900	NA	NA
Manganese	**1550**	**1,3,5,***	**747**	**1,3,5,***	**810**	**1,3,5,***	630	NA	630	NA	636	NA	1,600
SPLP Metals (mg/L)													
Iron	**23.6**	**6**	**34.8**		**15.4**		m	NA	NA	NA	NA	5	NA
Lead	**0.0177**	**6**	**0.0187**		**0.0122**		m	NA	NA	NA	NA	0.0075	NA
Manganese	**0.262**	**6**	**0.586**	**6**	**0.156**	**6**	m	NA	NA	NA	NA	0.15	NA
TCLP Metals (mg/L)													
Iron	**15**	**6**	**0.145**		**J 0.0159**		m	NA	NA	NA	NA	5	NA
Lead	**0.0261**	**6**	ND		ND		m	NA	NA	NA	NA	0.0075	NA
Manganese	**5.9**	**6**	**10.8**	**6**	**0.288**	**6**	m	NA	NA	NA	NA	0.15	NA

J = Result is less than the reporting limit, but greater than or equal to the method detection limit. The concentration is an approximate value.
ND = Not Detected at or above the laboratory reporting limit.
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
TCLP = Toxicity Characteristic Leaching Procedure
SPLP = Synthetic Precipitation Leaching Procedure
MAC = Maximum Allowable Concentrations of Chemical Constituents In Uncontaminated Soil Used as Fill Material At Regulated Fill Operations (35 Ill. Adm. Code 1100.Subpart F).
MSA = Metropolitan Statistical Area
1 = Exceeds the most stringent MAC value.
2 = Exceeds the Outside a Populated Area MAC value.
3 = Exceeds the Populated Area in a Non-MSA County MAC value.
4 = Exceeds the Chicago Corporate Limits MAC value.
5 = Exceeds the Populated Area in a MSA, excluding Chicago value (least stringent).
6 = Exceeds Tier I concentration for the Soil Component of the Groundwater Ingestion Exposure Route, Class I (TACO Appendix B, Tables A and B).
7 = Exceeds the most stringent TACO Tier 1 Soil Remediation Objectives for Residential Properties.
***** = Exceeds the most stringent MAC value, but is below the TACO Tier 1 Soil Remediation Objectives for Residential Properties.

CCDD Eligible
not CCDD Eligible (greater than MSA MAC), but not non-special w aste (below most stringent TACO Tier 1 Residential RO)
non-special w aste (greater than MSA MAC, greater than most stringent TACO Tier 1 Residential RO)

REVISIONS
NO. | DATE | DESCRIPTION | BY

ANDREWS ENGINEERING, INC.
3300 Ginger Creek Drive, Springfield, IL 62711-7233
Tel (217) 787-2334 Fax (217) 787-9495
Pontiac, IL • Naperville, IL • Indianapolis, IN • Warrenton, MO
Professional Design Engineering and Land Surveying Firm #184-001541

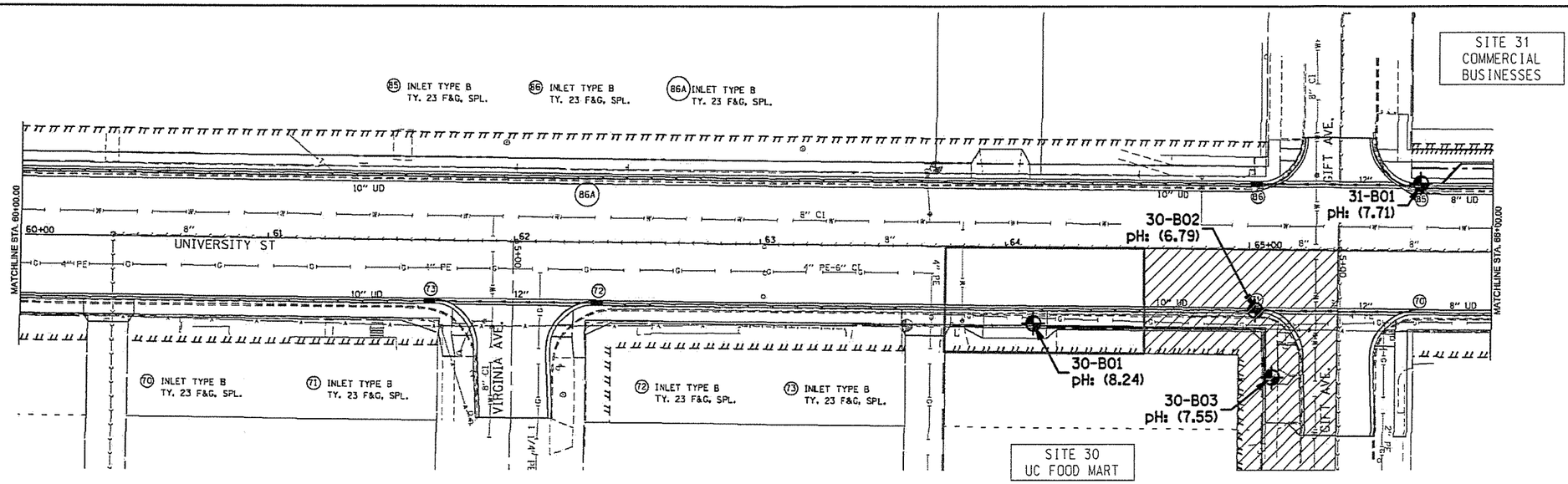
APPROVED BY: CEF | DESIGNED BY: CMT | DRAWN BY: MPN

CONTAMINANTS OF CONCERN

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
SITE 23
FAU 8593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

DATE: MARCH 2015
PROJECT ID: 150166
SHEET NUMBER:
FIG. 6A

T:\CMT2015 Peoria\Nebraska to Forrest Hill (South)\DWG\REPORT\CMT2015 PSI.dwg Tab: FIGURE 6A Last Saved: March 3, 2015, by Mike Nguyen Plotted: Tuesday, March 03, 2015 1:56:12 PM



Site 30
UC Food Mart

Sample ID	30-B01		30-B02		30-B03		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4		0-4		0-2								
Sample Date	2/17/2015		2/17/2015		2/17/2015								
PID	0		0		0								
Sample pH	8.24		6.79		7.55								
Matrix	Soil		Soil		Soil								
Inorganic Compounds, Total (mg/kg)													
Arsenic	**12.1**	**1,3,***	**14.7**	**1,3,5,7**	**16.5**	**1,3,5,7**	11.3	NA	11.3	NA	13	NA	13

mg/kg = Milligrams per kilogram
MAC = Maximum Allowable Concentrations of Chemical Constituents In Uncontaminated Soil Used as Fill Material At Regulated Fill Operations (35 Ill. Adm. Code 1100.Subpart F).
MSA = Metropolitan Statistical Area
1 = Exceeds the most stringent MAC value.
2 = Exceeds the Outside a Populated Area MAC value.
3 = Exceeds the Populated Area in a Non-MSA County MAC value.
4 = Exceeds the Chicago Corporate Limits MAC value.
5 = Exceeds the Populated Area in a MSA, excluding Chicago value (least stringent).
6 = Exceeds Tier I concentration for the Soil Component of the Groundwater Ingestion Exposure Route, Class I (TACO Appendix B, Tables A and B).
7 = Exceeds the most stringent TACO Tier 1 Soil Remediation Objectives for Residential Properties.
***** = Exceeds the most stringent MAC value, but is below the TACO Tier 1 Soil Remediation Objectives for Residential Properties.

CCDD Eligible
not CCDD Eligible (greater than MSA MAC), but not non-special w aste (below most stringent TACO Tier 1 Residential RO)
non-special w aste (greater than MSA MAC, greater than most stringent TACO Tier 1 Residential RO)

N

0 50 100

SCALE: IN FEET

LEGEND

- SITE LIMIT
- SOIL BORING LOCATION
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE CONTAMINANTS OF CONCERN IN SOIL EXCEED APPLICABLE MACs
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE CONTAMINANTS OF CONCERN IN SOIL EXCEED THE MOST STRINGENT MACS BUT ARE BELOW LOCATION SPECIFIC MACS FOR A METROPOLITAN STATISTICAL AREA OR WHERE SOIL EXCEEDS THE TIER 1 CONCENTRATION FOR THE SOIL COMPONENT OF THE GROUNDWATER INGESTION EXPOSURE ROUTE

NOTES

1. FIGURES SHOWN ARE SCANNED IMAGES TAKEN FROM DRAWINGS PROVIDED BY OTHERS WHICH MAY EFFECT SCALING.
2. ALL UTILITIES SHOWN ARE APPROXIMATE IN LOCATION. BORING LOCATIONS MUST BE VERIFIED AND THE UTILITIES FIELD STAKED BY UTILITY SEARCH IN ACCORDANCE WITH THE WORK PLAN.

REVISIONS

NO.	DATE	DESCRIPTION	BY

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Professional Design Engineering and Land Surveying Firm#184-001541

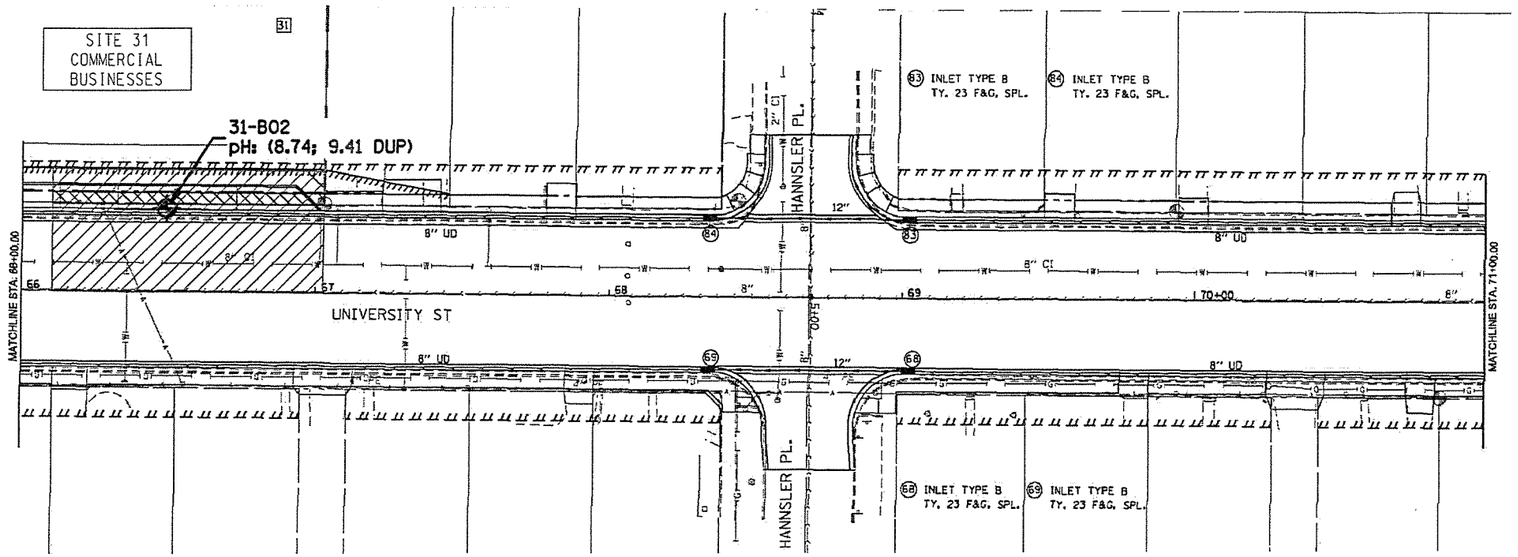
APPROVED BY: CEF | DESIGNED BY: CMT | DRAWN BY: MPN | CHECKED BY: CMT

BORING LOCATION MAP AND CONTAMINANTS OF CONCERN

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
SITES 30 & 31
FAU 6593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

DATE: MARCH 2015
PROJECT ID: 150166
SHEET NUMBER:

FIG. 7



Site 31

Commericial Businesses

Sample ID	31-B02		31-B02 DUP		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4		0-4								
Sample Date	2/17/2015		2/17/2015								
PID	0		0								
Sample pH	8.74		**9.41**								
Matrix	Soil		Soil								
Inorganic Compounds, Total (mg/kg)											
Arsenic	**13.3**	1,3,5,7	**8.42**		11.3	NA	11.3	NA	13	NA	13
SPLP Metals (mg/L)											
Manganese	**0.18**		**0.23**	6	m	NA	NA	NA	NA	0.15	NA
TCLP Metals (mg/L)											
Manganese	**0.0259**		**2.68**	6	m	NA	NA	NA	NA	0.15	NA

mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
TCLP = Toxicity Characteristic Leaching Procedure
SPLP = Synthetic Precipitation Leaching Procedure
MAC = Maximum Allowable Concentrations of Chemical Constituents In Uncontaminated Soil Used as Fill Material At Regulated Fill Operations (35 Ill. Adm. Code 1100.Subpart F).
MSA = Metropolitan Statistical Area
1 = Exceeds the most stringent MAC value.
2 = Exceeds the Outside a Populated Area MAC value.
3 = Exceeds the Populated Area in a Non-MSA County MAC value.
4 = Exceeds the Chicago Corporate Limits MAC value.
5 = Exceeds the Populated Area in a MSA, excluding Chicago value (least stringent).
6 = Exceeds Tier I concentration for the Soil Component of the Groundwater Ingestion Exposure Route, Class I (TACO Appendix B, Tables A and B).
7 = Exceeds the most stringent TACO Tier 1 Soil Remediation Objectives for Residential Properties.
***** = Exceeds the most stringent MAC value, but is below the TACO Tier 1 Soil Remediation Objectives for Residential Properties.

CCDD Eligible
not CCDD Eligible (greater than MSA MAC), but not non-special w aste (below most stringent TACO Tier 1 Residential RO)
non-special w aste (greater than MSA MAC, greater than most stringent TACO Tier 1 Residential RO)

N

0 50 100

SCALE: IN FEET

LEGEND

- SITE LIMIT
- SOIL BORING LOCATION
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE CONTAMINANTS OF CONCERN IN SOIL EXCEED APPLICABLE MACs
- PROPOSED ROW ACQUISITION AREA WHERE CONTAMINANTS OF CONCERN IN SOIL EXCEED AN EXPOSURE PATHWAY IN TACO

NOTES

1. FIGURES SHOWN ARE SCANNED IMAGES TAKEN FROM DRAWINGS PROVIDED BY OTHERS WHICH MAY EFFECT SCALING.
2. ALL UTILITIES SHOWN ARE APPROXIMATE IN LOCATION. BORING LOCATIONS MUST BE VERIFIED AND THE UTILITIES FIELD STAKED BY UTILITY SEARCH IN ACCORDANCE WITH THE WORK PLAN.

REVISIONS

NO.	DATE	DESCRIPTION	BY

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Pontiac, IL • Naperville, IL • Indianapolis, IN • Warrenton, MO
Professional Design Engineering and Land Surveying Firm #184-001541

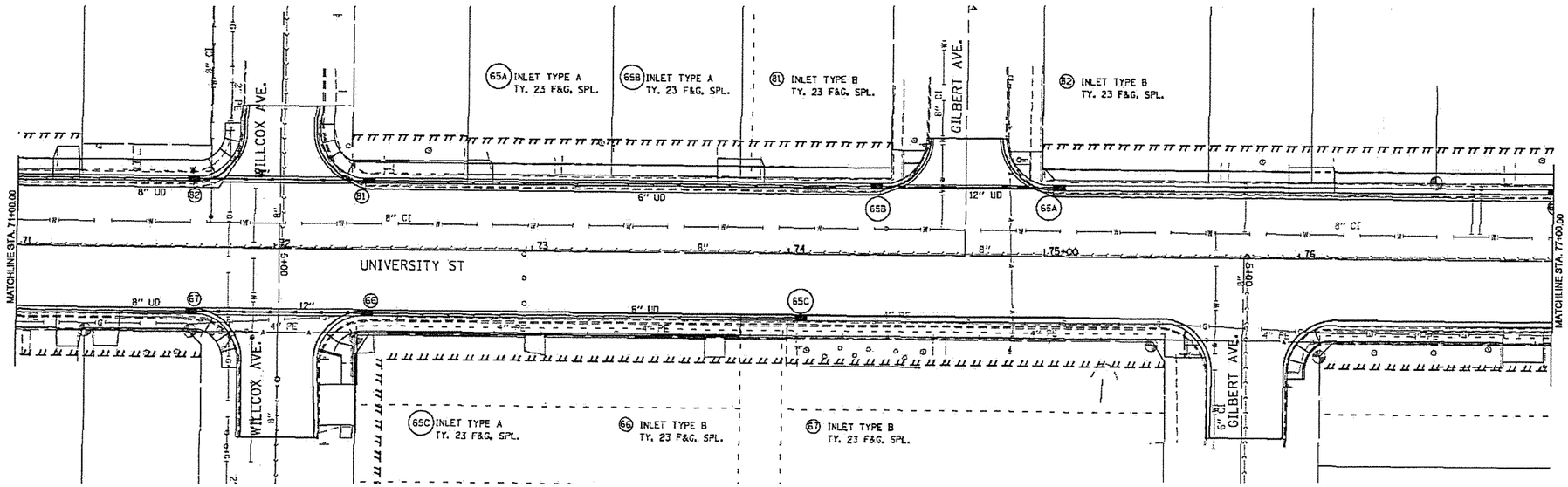
DESIGNED BY: CMT | DRAWN BY: MPH | APPROVED BY: CEF

BORING LOCATION MAP AND CONTAMINANTS OF CONCERN

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
SITE 31
FAU 6593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

DATE: MARCH 2015
PROJECT ID: 150166
SHEET NUMBER: FIG. 8

T:\CM12015 Peoria\Nebraska to Forrest Hill (South)\DWG\REPORT\CM12015 PSI.dwg Tab: FIGURE 8 Last Saved: March 4, 2015, by Mike Nguyen Plotted: Wednesday, March 04, 2015 1:30:38 PM



NO BORINGS ON THIS FIGURE.
THE FIGURE IS INCLUDED FOR
CONTINUITY AND CLARITY

N

0 50 100

SCALE: IN FEET

NOTES

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2. ALL UTILITIES SHOWN ARE APPROXIMATE IN LOCATION. BORING LOCATIONS MUST BE VERIFIED AND THE UTILITIES FIELD STAKED BY UTILITY SEARCH IN ACCORDANCE WITH THE WORK PLAN.

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Pontiac, IL • Naperville, IL • Indianapolis, IN • Warrenton, MO
Professional Design Engineering and Land Surveying Firm #184-001541

DESIGNED BY: CMT | DRAWN BY: MPN | APPROVED BY: CEF

BORING LOCATION MAP

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
FAU 6593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

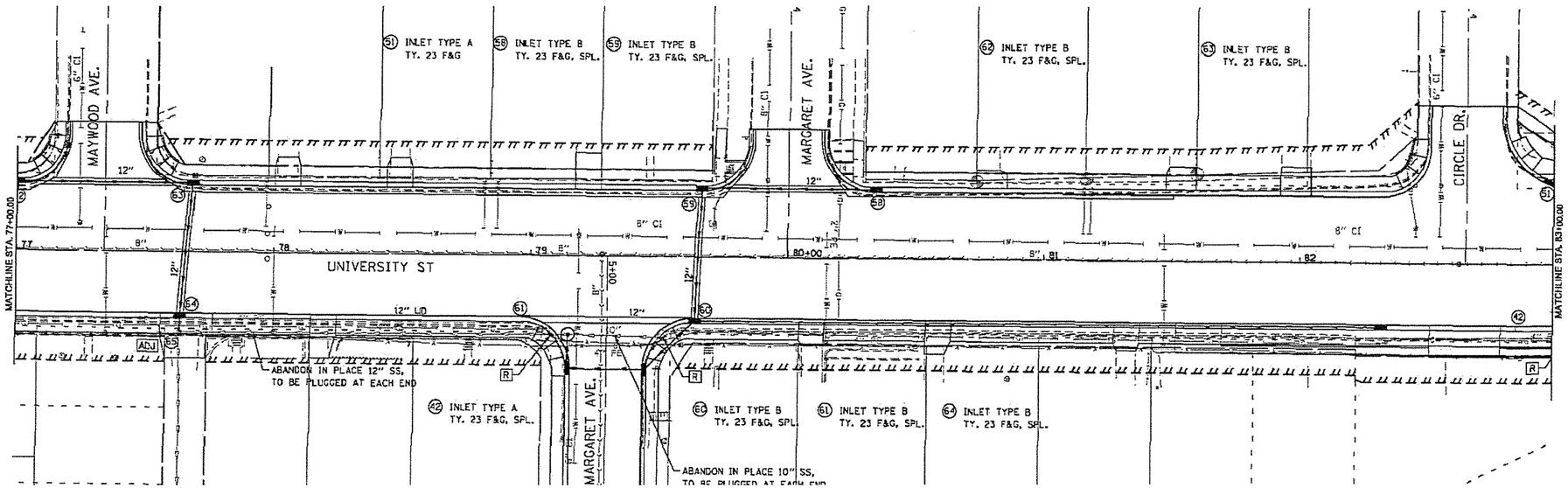
DATE: MARCH 2015

PROJECT ID: 150166

SHEET NUMBER:

FIG. 9

T:\CMT2015 Peoria\Nebraska to Forrest Hill (South)\DWG\REPORT\CMT2015 PSI.dwg Tab: FIGURE 9 Last Saved: March 3, 2015, by Mike Nguyen Plotted: Tuesday, March 03, 2015 2:24:49 PM



NO BORINGS ON THIS FIGURE.
THE FIGURE IS INCLUDED FOR
CONTINUITY AND CLARITY

N

0 50 100

SCALE: IN FEET

NOTES

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2. ALL UTILITIES SHOWN ARE APPROXIMATE IN LOCATION. BORING LOCATIONS MUST BE VERIFIED AND THE UTILITIES FIELD STAKED BY UTILITY SEARCH IN ACCORDANCE WITH THE WORK PLAN.

REVISIONS

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Professional Design Engineering and Land Surveying Firm #184-001541

APPROVED BY: CEF DESIGNED BY: CMT DRAWN BY: MPN

BORING LOCATION MAP

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
FAU 6593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

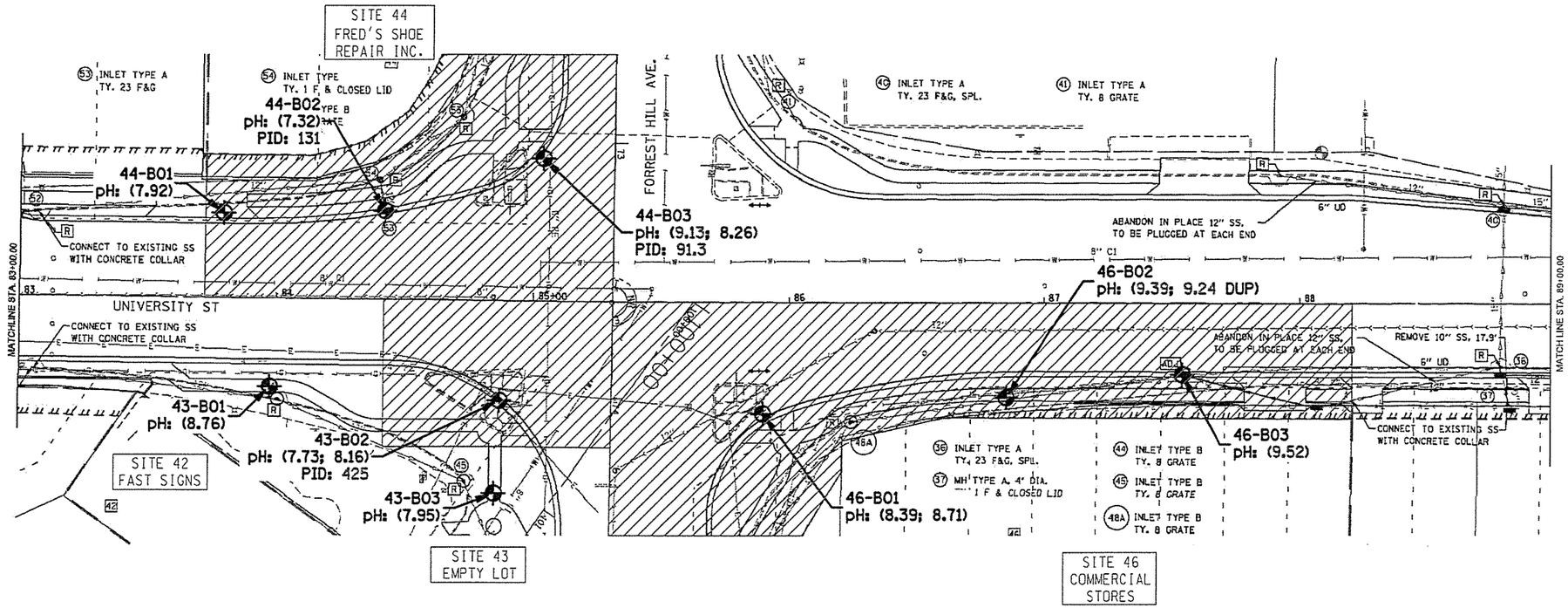
DATE: MARCH 2015

PROJECT ID: 150166

SHEET NUMBER:

FIG. 10

I:\CMT2015 Peoria\Nebraska to Forrest Hill (South)\DWG\REPORT\CMT2015 PSI.dwg Tab: FIGURE 10 Last Saved: March 3, 2015 2:25:17 PM Plotted: Tuesday, March 03, 2015 2:25:17 PM by Mike Nguyen



LEGEND

- SITE LIMIT
- SOIL BORING LOCATION
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE CONTAMINANTS OF CONCERN IN SOIL EXCEED APPLICABLE MACs

NOTES

1. FIGURES SHOWN ARE SCANNED IMAGES TAKEN FROM DRAWINGS PROVIDED BY OTHERS WHICH MAY EFFECT SCALING.
2. ALL UTILITIES SHOWN ARE APPROXIMATE IN LOCATION. BORING LOCATIONS MUST BE VERIFIED AND THE UTILITIES FIELD STAKED BY UTILITY SEARCH IN ACCORDANCE WITH THE WORK PLAN.

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Pontiac, IL • Naperville, IL • Indianapolis, IN • Warrenton, MO
Professional Design Engineering and Land Surveying Firm #184-001541

DESIGNED BY: CMT | DRAWN BY: MPN | APPROVED BY: CEF

BORING LOCATION MAP

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
SITES 42, 43, 44 & 46
FAU 6593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

DATE: MARCH 2015

PROJECT ID: 150166

SHEET NUMBER:

FIG. 11

T:\CMT2015 Peoria\Nebraska to Forrest Hill (South)\DWG\REPORT\CMT2015 PSI.dwg Tab: FIGURE 11 Last Saved: March 3, 2015, by Mike Nguyen Plotted: Tuesday, March 03, 2015 4:54:58 PM

Site 43
Empty Lot

Sample ID	43-B02-1		43-B02-2		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-7		7-14								
Sample Date	2/17/2015		2/17/2015								
PID	**20.4**		**425**								
Sample pH	7.73		8.16								
Matrix	Soil		Soil								
Volatile Organic Compounds (mg/kg)											
Benzene	**0.015**		**0.319**	**1,7**	0.03	NA	NA	NA	NA	NA	0.03
Inorganic Compounds, Total (mg/kg)											
Arsenic	**13.3**	**1,3,5,7**	**5.18**		11.3	NA	11.3	NA	13	NA	13
SPLP Metals (mg/L)											
Lead	**0.0086**	**6**	ND		m	NA	NA	NA	NA	0.0075	NA
TCLP Metals (mg/L)											
Lead	**0.0124**	**6**	NT		m	NA	NA	NA	NA	0.0075	NA

J = Result is less than the reporting limit, but greater than or equal to the method detection limit. The concentration is an approximate value.
ND = Not Detected at or above the laboratory reporting limit.
NT = Not Tested
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
TCLP = Toxicity Characteristic Leaching Procedure
SPLP = Synthetic Precipitation Leaching Procedure
MAC = Maximum Allowable Concentrations of Chemical Constituents In Uncontaminated Soil Used as Fill Material At Regulated Fill Operations (35 Ill. Adm. Code 1100.Subpart F).
MSA = Metropolitan Statistical Area
1 = Exceeds the most stringent MAC value.
2 = Exceeds the Outside a Populated Area MAC value.
3 = Exceeds the Populated Area in a Non-MSA County MAC value.
4 = Exceeds the Chicago Corporate Limits MAC value.
5 = Exceeds the Populated Area in a MSA, excluding Chicago value (least stringent).
6 = Exceeds Tier I concentration for the Soil Component of the Groundwater Ingestion Exposure Route, Class I (TACO Appendix B, Tables A and B).
7 = Exceeds the most stringent TACO Tier 1 Soil Remediation Objectives for Residential Properties.
***** = Exceeds the most stringent MAC value, but is below the TACO Tier 1 Soil Remediation Objectives for Residential Properties.

CCDD Eligible
not CCDD Eligible (greater than MSA MAC), but not non-special w aste (below most stringent TACO Tier 1 Residential RO)
non-special w aste (greater than MSA MAC, greater than most stringent TACO Tier 1 Residential RO)

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Pontiac, IL • Napperville, IL • Indianapolis, IN • Warrenton, MO
Professional Design Engineering and Land Surveying Firm #184-001541

APPROVED BY: CEF | DESIGNED BY: CMT | DRAWN BY: MPN

CONTAMINANTS OF CONCERN

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
SITE 43
FAU 6593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

DATE: MARCH 2015
PROJECT ID: 150166
SHEET NUMBER:

FIG. 11A

T:\CM12015 Peoria\Nebraska to Forrest Hill (South)\DWG\REPORT\CM12015 PSI.dwg Tab: FIGURE 11A Last Saved: March 6, 2015, by Mike Nguyen Plotted: Friday, March 06, 2015 9:51:50 AM

Site 44
Fred's Shoe Repair Inc.

Sample ID	44-B01		44-B02		44-B03-1		44-B03-2		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-2		0-4		0-7		7-14								
Sample Date	2/17/2015		2/17/2015		2/17/2015		2/17/2015								
PID	0		**131**		0		**91.3**								
Sample pH	7.92		7.32		**9.13**		8.26								
Matrix	Soil		Soil		Soil		Soil								
Volatile Organic Compounds (mg/kg)															
Ethylbenzene	ND		**15.8**	**1,7**	**J 0.006**		ND		13	NA	NA	NA	NA	NA	13
Xylenes, total	ND		**107**	**1,***	**0.013**		ND		5.6	NA	NA	NA	NA	NA	150
Inorganic Compounds, Total (mg/kg)															
Arsenic	**14.3**	**1,3,5,7**	**12.3**	**1,3,***	**14.2**	**1,3,5,7**	**5.44**		11.3	NA	11.3	NA	13	NA	13
Iron	**33800**	**1,3,5**	**34200**	**1,3,5**	**29700**		**17100**		15,000	NA	15,000	NA	15,900	NA	NA
Manganese	**421**		**660**	**1,3,5,***	**1200**	**1,3,5,***	**400**		630	NA	630	NA	636	NA	1,600
SPLP Metals (mg/L)															
Iron	**20.3**	**6**	**15.6**	**6**	**47.6**		**2.39**		m	NA	NA	NA	NA	5	NA
Lead	**0.0167**	**6**	**0.0103**	**6**	**0.0115**		ND		m	NA	NA	NA	NA	0.0075	NA
Manganese	**0.184**	**6**	**0.193**	**6**	**0.156**	**6**	**0.0249**		m	NA	NA	NA	NA	0.15	NA
TCLP Metals (mg/L)															
Iron	**26.3**	**6**	**12.9**	**6**	0.0275		NT		m	NA	NA	NA	NA	5	NA
Lead	**0.0127**	**6**	**0.0106**	**6**	ND		NT		m	NA	NA	NA	NA	0.0075	NA
Manganese	**5.32**	**6**	**6.04**	**6**	**0.351**	**6**	NT		m	NA	NA	NA	NA	0.15	NA

Site 46
Commercial Stores

Sample ID	46-B01-1		46-B01-2		46-B02		46-B02 DUP		46-B03		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only	[7] Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-7		7-14		0-2		0-2		0-4								
Sample Date	2/17/2015		2/17/2015		2/17/2015		2/17/2015		2/17/2015								
PID	0		0		0		0		0								
Sample pH	8.39		8.71		**9.39**		**9.24**		**9.52**								
Matrix	Soil		Soil		Soil		Soil		Soil								
Semivolatile Organic Compounds (mg/kg)																	
Benzo(a)pyrene	ND		ND		ND		**0.448**	**1,2,***	**0.251**	**1,2,***	0.09	0.09	0.98	1.3	2.1	NA	2.1
Inorganic Compounds, Total (mg/kg)																	
Iron	**26800**		**17500**	**1,3,5**	**10300**		**7380**		**21500**		15,000	NA	15,000	NA	15,900	NA	NA
SPLP Metals (mg/L)																	
Iron	**49.7**		**10.6**	**6**	**7.12**		**3.38**		**9.06**		m	NA	NA	NA	NA	5	NA
Lead	**0.0165**		**0.0086**	**6**	**0.0097**		**J 0.0065**		**0.0437**		m	NA	NA	NA	NA	0.0075	NA
Manganese	**0.223**	**6**	**0.0714**		**0.103**		**0.0362**		**0.0887**		m	NA	NA	NA	NA	0.15	NA
TCLP Metals (mg/L)																	
Iron	**J 0.0079**		**67**	**6**	ND		NT		ND		m	NA	NA	NA	NA	5	NA
Lead	ND		**0.0168**	**6**	ND		NT		ND		m	NA	NA	NA	NA	0.0075	NA
Manganese	**5.25**	**6**	NT		NT		NT		NT		m	NA	NA	NA	NA	0.15	NA

REVISIONS

NO.	DATE	DESCRIPTION	BY

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CONTAMINANTS OF CONCERN

PLANS PREPARED FOR
CRAWFORD, MURPHY & TILLY, INC.
SITES 44 & 46
FAU 6593 (UNIVERSITY STREET)
FROM NEBRASKA AVE. TO FORREST HILL AVE.
PEORIA, PEORIA COUNTY, ILLINOIS

DATE: MARCH 2015

PROJECT ID: 150166

SHEET NUMBER:

FIG. 11B

T:\CMT2015 Peoria\Nebraska to Forrest Hill (South)\DWG\REPORT\CMT2015 PSI.dwg Tab: FIGURE 11B Last Saved: March 5, 2015, by Mike Nguyen Plotted: Thursday, March 05, 2015 4:16:13 PM