



PROPOSAL SUBMITTED BY		
Chicagoland Paving Contractors Inc		
Contractor's Name		
225 Telsor Rd		
Street		P.O. Box
Lake Zurich	IL	60047
City	State	Zip Code

STATE OF ILLINOIS

COUNTY Cook and DuPage

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

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE Celebrity Circle Reconstruction/Resurfacing

SECTION NO. 15-00065-00-PV

TYPES OF FUNDS MFT

SPECIFICATIONS (required)

PLANS (required)

CONTRACT BOND (when required)

**For Municipal Projects**  
Submitted/Approved/Passed

*[Signature]*

Mayor  President of Board of Trustees  Municipal Official

Date 3/10/2016

**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 \_\_\_\_\_

County Cook and DuPage  
Local Public Agency Village of Hanover Park  
Section Number 15-00065-00-PV  
Route Various Village Streets

1. THIS AGREEMENT, made and concluded the 3<sup>rd</sup> day of March, 2016,  
Month and Year  
between the Village of Hanover Park  
acting by and through its President and Board of Trustees known as the party of the first part, and  
Chicagoland Paving 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 15-00065-00-PV, in The Village of Hanover Park, approved by the Illinois Department of Transportation on N/A,  
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:

*Gina J. Corral Septhveder* Clerk  
(Seal)

The Village of Hanover Park  
By *[Signature]*  
Party of the First Part  
(If a Corporation)

Corporate Name Chicagoland Paving Contractors  
By *[Signature]* U.P.  
President Party of the Second Part  
(If a Co-Partnership)

Attest:

*John C. Huch* Secretary

Partners doing Business under the firm name of

Party of the Second Part

(If an individual)

Party of the Second Part

CHICAGOLAND PAVING CONTRACTORS, INC.  
225 TELSER ROAD  
LAKE ZURICH, IL 60047  
Tel: 847-550-9681 Fax: 847-550-9684  
Chicagoland1@sbcglobal.net

*Certificate of Resolution*

I, Kevin Meartz, President of CHICAGOLAND PAVING CONTRACTORS, Inc.; an Illinois corporation (the Corporation) hereby certifies that the following resolutions were unanimously adopted by the Shareholders and Directors of the Corporation by consent of the Shareholders and Directors dated May 26, 1988:

*RESOLVED, that CHICAGOLAND PAVING CONTRACTORS, INC., an Illinois Corporation (the Corporation) authorizes William R. Bowes, to have the authority to sign and enter into a contract on behalf of CHICAGOLAND PAVING CONTRACTORS, Inc.*

*FURTHER RESOLVED, that any one or more of the President and any Secretary or Assistant Secretary of the Corporation are authorized, empowered and directed to execute and deliver on behalf of the Corporation, such documents and agreements as they or any of them determine to be necessary or advisable to effectuate the foregoing resolutions.*

*Executed in Lake Zurich, IL on May 26, 1988.*

By: *Kevin Meartz*  
*Kevin Meartz, President*

**Illinois Department  
of Transportation**

**Contract Bond**

Route Celebrity Circle  
County Cook and DuPage  
Local Agency Village of Hanover Park  
Section 15-00065-00-PV

by Chicagoland Paving Contractors, Inc.

225 Telser Rd., Lake Zurich, IL 60047

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

as PRINCIPAL, and West Bend Mutual Insurance Company

8401 Greenway Blvd., Suite 1100, Middleton, WI 53562

as SURETY,

are held and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of

Eight Hundred Seventy-Nine Thousand  
Nine Hundred Sixty-Seven & 93/100

Dollars ( \$879,967.93 )

), 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 8th day of March A.D. 2016

**PRINCIPAL**

Chicagoland Paving Contractors, Inc.  
(Company Name)  
By: [Signature] U.P.  
(Signature & Title)  
Attest: [Signature] writers  
(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 Cook

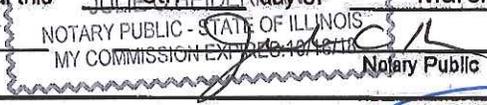
I, Julie C. Heiderman, a Notary Public in and for said county, do hereby certify that

William R. Bowes + Brian Calloro  
(Insert names of individuals signing on behalf of 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 JULIE 8th day of March A.D. 2016

My commission expires 10/18/18



(SEAL)

**SURETY**

West Bend Mutual Insurance Company  
(Name of Surety)

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

STATE OF ILLINOIS,  
COUNTY OF Cook

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

Paul F. Praxmarer

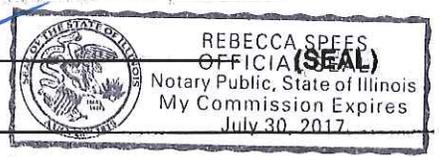
(Insert names of individuals signing on behalf of SURETY)

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 8 day of March A.D. 2016

My commission expires July 30, 2017

[Signature]  
Notary Public



Approved this \_\_\_\_\_ day of \_\_\_\_\_, A.D. \_\_\_\_\_

Attest:

\_\_\_\_\_  
Clerk

\_\_\_\_\_  
(Awarding Authority)  
\_\_\_\_\_  
(Chairman/Mayor/President)



2317426

### 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:

PAUL PRAXMARER

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 thereto 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



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 it 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  
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 8 day of March, 2016



Dale J. Kent  
Dale J. Kent  
Executive Vice President -  
Chief Financial Officer



# CERTIFICATE OF LIABILITY INSURANCE

CHICL-1

OP ID: DR

DATE (MM/DD/YYYY)

03/02/2016

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 Corkill Insurance Agency, Inc. 25 Northwest Pt Blvd Ste 625 Elk Grove Village, IL 60007 Paul F. Praxmarer	CONTACT NAME: Certificate Department PHONE (A/C, No, Ext): 847-758-1000 E-MAIL ADDRESS: Certs@Corkillinsurance.com	FAX (A/C, No): 847-758-1200
	INSURER(S) AFFORDING COVERAGE	
INSURED Chicagoland Paving Contractors, Inc. 225 Telser Rd Lake Zurich, IL 60047	INSURER A : Pekin Insurance Company	24228
	INSURER B : AGCS Marine Insurance Co	22837
	INSURER C : St. Paul Fire & Marine Ins Co	24767
	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.

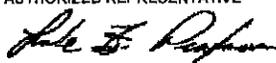
INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			CL0183498	02/24/2016	02/24/2017	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 3,000,000 PRODUCTS - COMP/OP AGG \$ 3,000,000
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			00P691695	02/24/2016	02/24/2017	COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ 1,000,000 BODILY INJURY (Per accident) \$ 1,000,000 PROPERTY DAMAGE (Per accident) \$ 1,000,000 UM/UIM \$ 1,000,000
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			CU30217/ZUP-21N3985516NF	02/24/2016	02/24/2017	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000 B = XS \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	WC0004988	02/24/2016	02/24/2017	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
B	Leased Equipment			SML93063066	02/24/2016	02/24/2017	Per Item 500,000 Per Occur 500,000

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

Job: Celebrity Circle Reconstruction/Resurfacing, MFT Section 15-00065-00-PV  
 - Village of Hanover Park, its officials, agents, employees and volunteers are Additional Insured for General Liability on a primary and non-contributory basis if required by written contract. A waiver of subrogation applies in favor of the Additional Insured for Workers Compensation

## CERTIFICATE HOLDER

## CANCELLATION

HANOVER  Village of Hanover Park Public Works Facility 2041 Lake Street Hanover Park, IL 60133	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 
---	---

© 1988-2014 ACORD CORPORATION. All rights reserved.

**NOTEPAD:**

HOLDER CODE HANOVER  
INSURED'S NAME Chicagoland Paving

CHICL-1  
OP ID: DR

PAGE 2  
Date 03/02/2016

if required by written contract.

Severability of Interests applies.

CG2010 1001  
CG2037 1001

**AMENDMENT OF POLICY**

This endorsement, effective 2/24/16  
Forms a part of the policy No. CL0183498  
Issued to Chicagoland Paving Contractors Inc  
By Pekin Insurance Company

It is agreed that as of effective date of this endorsement this policy is amended in the following particulars:

**CG20371001 - BLANKET**

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

**ADDITIONAL INSURED - OWNERS, LESSEES, OR CONTRACTORS – COMPLETED OPERATIONS**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY PART

SCHEDULE

<b>Name of Person or Organization:</b> ANY AND ALL PERSONS OR ENTITIES WHERE REQUIRED BY WRITTEN CONTRACT
<b>Location And Description of Completed Operations:</b> ANY AND ALL JOB LOCATIONS AND/OR PROJECTS WHERE REQUIRED BY WRITTEN CONTRACT

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

**Section II – Who Is An Insured** is amended to include as an insured the prson or organization shown in the Schedule, but only with respect to liability arising out of "your work" at the location designated and described in the schedule of this endorsement performed for that insured and included in the "products-completed operations hazard".

---

Authorized Representative

**AMENDMENT OF POLICY**

This endorsement, effective 2/24/16  
Forms a part of the policy No. CL0183498  
Issued to Chicagoland Paving Contractors Inc  
By Pekin Insurance Company

It is agreed that as of effective date of this endorsement this policy is amended in the following particulars:

**CG20101001 - BLANKET**

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

**ADDITIONAL INSURED - OWNERS, LESSEES, OR CONTRACTORS – SCHEDULED PERSON OR ORGANIZATION**

This endorsement modifies insurance provided under the following:

**COMMERCIAL GENERAL LIABILITY PART**

**SCHEDULE**

<b>Name of Person or Organization:</b> <b>ANY AND ALL PERSONS OR ENTITIES WHERE REQUIRED BY WRITTEN CONTRACT</b>
<b>Location And Description of Completed Operations:</b> <b>ANY AND ALL JOB LOCATIONS AND/OR PROJECTS WHERE REQUIRED BY WRITTEN CONTRACT</b>

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

- A. Section II – Who Is An Insured** is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of your ongoing operations performed for that insured.
- B. With respect to the insurance afforded to these additional insureds, the following exclusion is added:**  
**2. Exclusions**  
 This insurance does not apply to "bodily injury" or "property damage" occurring after:

- (1) All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the site of the covered operations has been completed; or
- (2) That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

RETURN WITH BID

NOTICE TO BIDDERS

County DuPage/Cook
Local Public Agency Hanover Park
Section Number 15-00065-00-PV
Route Celebrity Circle

Sealed proposals for the improvement described below will be received at the office of The Village Clerk,
Village of Hanover Park, 2121 West Lake St. Hanover Park, IL 60133 until 11:00 AM on January 28, 2016
Address Time Date

Sealed proposals will be opened and read publicly at the office of The Village Clerk
Village of Hanover Park, 2121 West Lake St. Hanover Park, IL 60133 at 11:00 AM on January 28, 2016
Address Time Date

DESCRIPTION OF WORK

Name Celebrity Circle Reconstruction / Resurfacing Length: 3528.00 feet ( 0.66 miles)

Location Celebrity Circle

Proposed Improvement roadway reconstruction and resurfacing including earth excavation, storm sewer,
comb. curb & gutter, aggregate subgrade improvement, surface course, binder course, patching on 27 streets within Village

1. Plans and proposal forms will be available in the office of The Director of Public Works, Village of Hanover Park
2121 West Lake Street, Hanover Park, Illinois 60133 (630.372.4271) @ the cost of \$30.00 non-refundable
Address

2. [X] 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 DuPage/Cook

Local Public Agency Hanover Park

Section Number 15-00065-00-PV

Route Celebrity Circle

1. Proposal of Chicagoland Paving Contractors Inc

for the improvement of the above section by the construction of \_\_\_\_\_  
roadway reconstruction and resurfacing including earth excavation, storm sewer,  
comb. curb & gutter, aggregate subgrade improvement, surface course, and binder course, patching on 27 streets within Village

a total distance of 3528.00 feet, of which a distance of 3528.00 feet, ( 0.668 miles) are to be improved.

2. The plans for the proposed work are those prepared by Bollinger, Lach & Associates, Inc  
and approved by the Department of Transportation on \_\_\_\_\_

3. The specifications referred to herein are those prepared by the Department of Transportation and designated as  
"Standard Specifications for Road and Bridge Construction" and the "Supplemental Specifications and Recurring Special  
Provisions" thereto, adopted and in effect on the date of Invitation for bids.

4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check  
Sheet for Recurring Special Provisions" contained in this proposal.

5. The undersigned agrees to complete the work within 60 working days or by \_\_\_\_\_  
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:

Village Clerk of Hanover Park Treasurer of \_\_\_\_\_

The amount of the check is bid bond attached ( \_\_\_\_\_ ).

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 15-00065-00-PV \_\_\_\_\_.

8. The successful bidder at the time of execution of the contract \_\_\_\_\_ 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.



**Illinois Department of Transportation**

**SCHEDULE OF PRICES**

County DuPage/Cook  
 Local Public Agency Hanover Park  
 Section 15-00066-00-PV  
 Route Celebrity Circle

**Schedule for Multiple Bids**

Combination Letter	Sections Included In Combinations	Total

**Schedule for Single Bid**

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

**Bidder's Proposal for making Entire Improvements**

Item No.	Items	Unit	Quantity	Unit Price	Total
20200100	EARTH EXCAVATION	CU YD	2347	23-	53,981-
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1470	23-	33,810-
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1068	30-	32,040-
20800150	TRENCH BACKFILL	CU YD	16	32-	512-
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	3205	1-	3,205-
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	2561	615	384.15
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	32	2.15	68.80
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	32	2.15	68.80
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	32	2.15	68.80
25100630	EROSION CONTROL BLANKET	SQ YD	2561	0.15	384.15
25200110	SODDING, SALT TOLERANT	SQ YD	2561	16.25	41,616.25
25200200	SUPPLEMENTAL WATERING	UNIT	5	100.00	500.00
28000510	INLET FILTERS	EACH	15	130-	1,950-
30300110	AGGREGATE SUBGRADE IMPROVEMENT 10"	SQ YD	7847	10.75	84,355.25
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	1003	5-	5,015-
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	612	27-	16,524-
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	12663	.01	126.63
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	2.9	750-	2,175-
40603100	HOT-MIX ASPHALT BINDER COURSE, IL-19.0L, N30	TON	1308	75-	98,175-
40603305	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N30	TON	919	85-	78,115-
42001300	PROTECTIVE COAT	SQ YD	1367	1.60	2,187.20
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	61	36.50	2,226.50
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2869	4.10	12,172.90
42400800	DETECTABLE WARNINGS	SQ FT	180	22-	3,960-
44000100	PAVEMENT REMOVAL	SQ YD	6661	4.50	30,064.50
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	3437	1.75	6,014.75
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	673	7.50	5,047.50
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	4642	4-	18,568-
44000600	SIDEWALK REMOVAL	SQ FT	2737	1-	2,737-
44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	295	75.00	22,125.00
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	1180	60.00	70,800.00
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	1180	57.00	67,260.00
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	295	60.00	17,700.00
650A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	218	40-	8,720-
60107600	PIPE UNDERDRAINS 4"	FOOT	251	41.75	10,479.25
60200405	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 4 FRAME AND GRATE	EACH	2	3,850-	7,700-
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	3	3,125-	9,375-
60207205	CATCH BASINS, TYPE C, TYPE 4 FRAME AND GRATE	EACH	4	2,000-	8,000-
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	2	1,675-	3,350-
60221300	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 4 FRAME AND GRATE	EACH	4	5,200-	20,800-
60500080	REMOVING INLETS	EACH	4	52-	208-
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	4842	13.75	63,827.50
67100100	MOBILIZATION	LSUM	1	10,000.00	10,000.00
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	49	50-	2,450-
X0327611	REMOVE AND REINSTALL BRICK PAVER	SQ FT	109	25-	2,725-
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	10,300.00	10,300.00
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	3,500.00	3,500.00
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	25-	1,285-
Z0056604	STORM SEWER (WATER MAIN REQUIREMENTS) 8 INCH	FOOT	10	110-	1,100-
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	17	130-	2,210-
					879,967.93

879,967.93

RETURN WITH BID

CONTRACTOR CERTIFICATIONS

County	<u>DuPage/Cook</u>
Local Public Agency	<u>Hanover Park</u>
Section Number	<u>15-00065-00-PV</u>
Route	<u>Celebrity Circle</u>

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.

- Debt Delinquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the 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.
- 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.

- 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.
- 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.

RETURN WITH BID

SIGNATURES

County DuPage/Cook  
Local Public Agency Hanover Park  
Section Number 15-00065-00-PV  
Route Celebrity Circle

(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 Chicago Land Paving Contractors INC  
Signed By Mr. Bauer UP.  
President  
Business Address 225 Telser Rd  
Lake Zurich IL 60077

Inset Names of Officers

} President Kevin Meertz  
Secretary William R. Bowes  
Treasurer Kevin Meertz

Attest: Julia C. H.  
Secretary

CHICAGOLAND PAVING CONTRACTORS, INC.  
225 TELSER ROAD  
LAKE ZURICH, IL 60047  
Tel: 847-550-9681 Fax: 847-550-9684  
Chicagoland1@sbcglobal.net

*Certificate of Resolution*

*I, Kevin Meartz, President of CHICAGOLAND PAVING CONTRACTORS, Inc., an Illinois corporation (the Corporation) hereby certifies that the following resolutions were unanimously adopted by the Shareholders and Directors of the Corporation by consent of the Shareholders and Directors dated May 26, 1988:*

*RESOLVED, that CHICAGOLAND PAVING CONTRACTORS, INC., an Illinois Corporation (the Corporation) authorizes William R. Bowes, to have the authority to sign and enter into a contract on behalf of CHICAGOLAND PAVING CONTRACTORS, Inc.*

*FURTHER RESOLVED, that any one or more of the President and any Secretary or Assistant Secretary of the Corporation are authorized, empowered and directed to execute and deliver on behalf of the Corporation, such documents and agreements as they or any of them determine to be necessary or advisable to effectuate the foregoing resolutions.*

*Executed in Lake Zurich, IL on May 26, 1988.*

By: *Kevin Meartz*  
*Kevin Meartz, President*



**Return with Bid**

Route	<u>Celebrity Circle</u>
County	<u>DuPage/Cook</u>
Local Agency	<u>Hanover Park</u>
Section	<u>15-00065-00-PV</u>

**All contractors are required to complete the following certification:**

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

---



---



---

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

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

---



---



---



---

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

---

---

---

---

---

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

Bidder: **BID DATE**  
**BID TIME**  
Address: **WITH PRINTS LG SM NO**  
**COMPLETE DATE/DAYS:**

By: William R. Bowes  
(Signature)  
Title: William R. Bowes, V.P.

# *Chicagoland Paving Contractors, Inc.*

225 Telsler Road  
Lake Zurich, IL 60047

Phone: 847-550-9681  
Fax: 847-550-9684

---

## APPRENTICESHIP TRAINING CERTIFICATION

International Brotherhood of Teamsters – Truck Drivers  
Registration No. IL01050004

Operating Engineers Local #150 – Operating Engineers  
Registration No. IL008780173

Heavy Equipment Technician Operating Engineers Local #150 – Heavy  
Repairs  
Registration No. IL01202003

Chicagoland Laborers' – JATC – Construction Craft Laborer  
Registration No. IL01790001



# Illinois Teamsters Joint Council No. 25 and Employers Apprenticeship & Training Fund

---

990 NE Frontage Road Suite 4 Joliet, IL 60431  
Office: (815) 773-0700 Fax: (815) 773-1122  
Info@illinoisteamsterstraining.org

*May 13, 2014*

*To Whom It May Concern:*

*This letter will certify that Chicagoland Paving, is currently contributing and is current with its contributions, as of April 2014 to the Illinois Teamsters/Employers Apprenticeship and Training Fund Affiliated with Joint Council 25.*

*Any questions, please feel free to contact me at (815) 773-0700.*

*Very Truly Yours,*

*Rose Wyler*

**The United States Department of Labor**

**Office of Apprenticeship Training, Employer and Labor Services  
Bureau of Apprenticeship and Training**

**Certificate of Registration  
Illinois Teamsters/Employers Apprenticeship &  
Training Fund Affiliated with Joint Councils 25 & 65**

**Joliet, Illinois  
For The Trade of Construction Driver  
Registered as part of the National Apprenticeship Program  
in accordance with the basic standards of apprenticeship  
established by the Secretary of Labor**

**June 28, 2005**  
Date Revised: January 25, 2008  
**IL015050004**  
Registration No.



**R. J. Chao**  
Secretary of Labor

**Anthony Suvage**  
Administrator, Apprenticeship Training, Employer and Labor Services



# UNITED STATES DEPARTMENT OF LABOR

Office of Apprenticeship Training, Employer and Labor Services

Bureau of Apprenticeship and Training

Certificate of Registration

Operating Engineers Local #150

Plainfield, Illinois

For the Trade of Operating Engineer

Registered as part of the National Apprenticeship Program

in accordance with the basic standards of apprenticeship

established by the Secretary of Labor

November 5, 2002

Date

92 008780173

Registration No.



*R. J. Chao*  
Secretary of Labor

*[Signature]*  
Administrator, Apprenticeship Training, Employer and Labor Services

①

# United States Department of Labor

Office of Apprenticeship Training, Employer and Labor Services

Bureau of Apprenticeship and Training

Certificate of Registration

Heavy Equipment Technician Operating Engineers Local #150  
Plainfield, Illinois

For the Trade of Repairer (Heavy)

Registered as part of the National Apprenticeship Program  
in accordance with the basic standards of apprenticeship  
established by the Secretary of Labor



*Sh. J. Chao*  
Secretary of Labor

*Anthony Scurro*  
Administrator

May 5, 2002

Date

IL012020003

Registration No.

# Chicagoland LABORERS' District Council Training & Apprenticeship Fund

42-L

Learn more about us by visiting us at [www.chicagolaborers.org](http://www.chicagolaborers.org) or call us at 773.413.3315

8 May 2014

**Executive Director**  
Thomas Nordeen

**Labor Trustees**  
James P. Connolly  
Martin Flanagan  
Charles V. LoVerde III  
Liberato Naimoli

Mr. Dan Kelly  
Chicagoland Paving Contractors, Inc.  
225 Telser Road  
Lake Zurich, Illinois 60047

Dear Mr. Kelly:

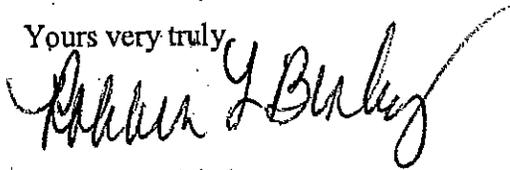
**Management Trustees**  
Seth Gudeman  
Lawrence Keefe  
Joseph Koppers  
Robert G. Krug  
David Lorig  
William Vignocchi

Enclosed you will please find a copy of the Department of Labor certification that you requested recently.

You may also use this letter as verification that Chicagoland Paving Contractors, Inc. is indeed signatory to the Chicago Laborers District Council and contributes to the Laborers Apprenticeship Fund.

Should you require anything further, please do not hesitate to contact me.

Yours very truly,



Robbin L. Blakely  
Office Manager

RLB  
ENC

**Carol Stream Location**  
1200 Old Gary Avenue  
Carol Stream IL 60188  
630.583.0000



**Chicago Location**  
5700 West Homer Street  
Chicago IL 60639  
773.413.3315

**U.S. DEPARTMENT OF LABOR**  
**Office of Apprenticeship Training, Employer and Labor Services**

**Bureau of Apprenticeship and Training**

**Certificate of Registration**

*Chicago and Laborers' J.A.T.C.*

*Carol Stream, Illinois*

*For the Trade - Construction Craft Laborer*

*Registered as part of the National Apprenticeship Program*

*in accordance with the basic standards of apprenticeship*

*established by the Secretary of Labor*

*April 12, 1999*

REVISED August 13, 2004

11017990001

Registration No.



*Scott Chao*  
Secretary of Labor

*Anthony Dungey*  
Administrator, Apprenticeship Training, Employer and Labor Services



# 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	15-73	14-65				
Contract With	Gurnee Park Dist.	METRA				
Estimated Completion Date	6/1/2016	9/30/2016				
Total Contract Price	64,800.00	2,000,000.00				Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor	64800.00	1,000,000.00				\$1,064,800.00
Uncompleted Dollar Value if Firm is the Subcontractor						
<b>Total Value of All Work</b>						<b>\$1,064,800.00</b>

### 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	28,450.00				\$28,450.00
Portland Cement Concrete Paving					
HMA Plant Mix		250,000.00			\$250,000.00
HMA Paving		750,000.00			\$750,000.00
Clean & Seal Cracks/Joints					
Aggregate Bases & Surfaces	25,000.00				\$25,000.00
Highway, R.R. and Waterway Structures					
Drainage					
Electrical					
Cover and Seal Coats					
Concrete Construction					
Landscaping	10,000.00				\$10,000.00
Fencing					
Guardrail					
Painting					
Signng					
Cold Milling, Planning & Rotomilling					
Demolition					
Pavement Markings (Paint)					
Other Construction (List)					
					\$ 0.00
<b>Totals</b>	<b>\$63,450.00</b>	<b>\$1,000,000.00</b>			<b>\$1,063,450.00</b>

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.**

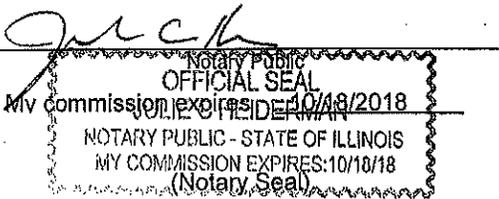
For each contract described in Part I, list all the work you have subcontracted to others.

	1	2	3	4	Awards Pending
Subcontractor	Garelli Pavement				
Type of Work	striping				
Subcontract Price	1,350.00				
Amount Uncompleted	1,350.00				
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	\$1,350.00				

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 16 day of January, 2016 Type or Print Name William R. Bowes, Vice President Title Officer or Director



Signed [Signature]

Company Chicagoland Paving Contractors, Inc.

Address 225 Telser Road  
Lake Zurich, IL 60047



Route Celebrity Circle
County DuPage/Cook
Local Agency Hanover Park
Section 15-00065-00-PV

RETURN WITH BID

PAPER BID BOND

WE Chicagoland Paving Contractors, Inc., 225 Telser Road, Lake Zurich, IL 60047 as PRINCIPAL, and West Bend Mutual Insurance Company, 8401 Greenway Blvd., Suite 1100, Middleton, WI 53562 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 28th day of January, 2016

Principal

Chicagoland Paving Contractors, Inc. (Company Name)
By: [Signature] (Signature and Title)

Surety

West Bend Mutual Insurance Company (Name of Surety)
By: [Signature] (Signature of Attorney at Law)

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

STATE OF ILLINOIS, COUNTY OF Cook

I, Rebecca Spees, a Notary Public in and for said county, do hereby certify that William F. Bones and Luke F. Praxmarer (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 28th day of January 2016

My commission expires July 30, 2017

Notary seal for Rebecca Spees, Notary Public, State of Illinois, My Commission Expires July 30, 2017

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



2314061

### 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:

LUKE F PRAXMARER

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



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 it 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  
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 28 day of January, 2016



Dale J. Kent  
Dale J. Kent  
Executive Vice President -  
Chief Financial Officer



# Illinois Department of Transportation

# Certificate of Eligibility

Chicagoland Paving Contractors, Inc.  
225 Teiser Road Lake Zurich, IL 60047

Contractor No 1001

WHO HAS FILED WITH THE DEPARTMENT AN APPLICATION FOR PREQUALIFICATION STATEMENT OF EXPERIENCE, EQUIPMENT AND FINANCIAL CONDITION IS HEREBY QUALIFIED TO BID AT ANY OF DEPARTMENT OF TRANSPORTATION LETTINGS IN THE CLASSES OF WORK AND WITHIN THE AMOUNT AND OTHER LIMITATIONS OF EACH CLASSIFICATION, AS LISTED BELOW, FOR SUCH PERIOD AS THE UNCOMPLETED WORK FROM ALL SOURCES DOES NOT EXCEED

\$25,837,000.00

001	EARTHWORK	\$2,375,000
005	HMA PAVING	\$9,950,000 B
032	COLD MILL, PLAN. & ROTOMILL	\$950,000
08A	AGGREGATE BASES & SURF. (A)	\$4,675,000

THIS CERTIFICATE OF ELIGIBILITY IS VALID FROM 8/31/2015 TO 7/31/2016 INCLUSIVE, AND SUPERSEDES ANY CERTIFICATE PREVIOUSLY ISSUED, BUT IS SUBJECT TO REVISION OR REVOCATION, IF AND WHEN CHANGES IN THE FINANCIAL CONDITION OF THE CONTRACTING FIRM OR OTHER FACTS JUSTIFY SUCH REVISIONS OR REVOCATION. ISSUED AT SPRINGFIELD, ILLINOIS ON 8/31/2015.

B Restricted to 1200 tons in any 1 contract (Class I and/or BAM) or as specified by local agency

*Tim Kell*

Interim Engineer of Construction

RETURN WITH BID

NOTICE TO BIDDERS

County DuPage/Cook
Local Public Agency Hanover Park
Section Number 15-00065-00-PV
Route Celebrity Circle

Sealed proposals for the improvement described below will be received at the office of The Village Clerk,
Village of Hanover Park, 2121 West Lake St. Hanover Park, IL 60133 until 11:00 AM on January 28, 2016

Sealed proposals will be opened and read publicly at the office of The Village Clerk
Village of Hanover Park, 2121 West Lake St. Hanover Park, IL 60133 at 11:00 AM on January 28, 2016

DESCRIPTION OF WORK

Name Celebrity Circle Reconstruction / Resurfacing Length: 3528.00 feet ( 0.66 miles)
Location Celebrity Circle
Proposed Improvement roadway reconstruction and resurfacing including earth excavation, storm sewer,
comb. curb & gutter, aggregate subgrade improvement, surface course, binder course, patching on 27 streets within Village

1. Plans and proposal forms will be available in the office of The Director of Public Works, Village of Hanover Park
2121 West Lake Street, Hanover Park, Illinois 60133 (630.372.4271) @ the cost of \$30.00 non-refundable

- 2. [X] 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 DuPage/Cook
Local Public Agency Hanover Park
Section Number 15-00065-00-PV
Route Celebrity Circle

1. Proposal of \_\_\_\_\_

for the improvement of the above section by the construction of \_\_\_\_\_
roadway reconstruction and resurfacing including earth excavation, storm sewer,
comb. curb & gutter, aggregate subgrade improvement, surface course, and binder course, patching on 27 streets within Village

a total distance of 3528.00 feet, of which a distance of 3528.00 feet, ( 0.668 miles) are to be improved.

- 2. The plans for the proposed work are those prepared by Bollinger, Lach & Associates, Inc and approved by the Department of Transportation on \_\_\_\_\_
3. The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the "Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.
4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.
5. The undersigned agrees to complete the work within 60 working days or by \_\_\_\_\_ 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:

Village Clerk of Hanover Park 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 15-00065-00-PV \_\_\_\_\_.
8. The successful bidder at the time of execution of the contract \_\_\_\_\_ 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.

RETURN WITH BID



**Illinois Department of Transportation**

**SCHEDULE OF PRICES**

County DuPage/Cook  
 Local Public Agency Hanover Park  
 Section 15-00065-00-PV  
 Route Celebrity Circle

**Schedule for Multiple Bids**

Combination Letter	Sections included in Combinations	Total

**Schedule for Single Bid**

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

**Bidder's Proposal for making Entire Improvements**

Item No.	Items	Unit	Quantity	Unit Price	Total
20200100	EARTH EXCAVATION	CU YD	2347		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1470		
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1088		
20800150	TRENCH BACKFILL	CU YD	16		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	3205		
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	2561		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	32		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	32		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	32		
25100630	EROSION CONTROL BLANKET	SQ YD	2561		
25200110	SODDING, SALT TOLERANT	SQ YD	2561		
25200200	SUPPLEMENTAL WATERING	UNIT	5		
28000510	INLET FILTERS	EACH	15		
30300110	AGGREGATE SUBGRADE IMPROVEMENT 10"	SQ YD	7847		
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	1003		
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	612		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	12663		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	2.9		
40603100	HOT-MIX ASPHALT BINDER COURSE, IL-19.0L, N30	TON	1309		
40603305	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N30	TON	919		
42001300	PROTECTIVE COAT	SQ YD	1367		
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	61		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2969		
42400800	DETECTABLE WARNINGS	SQ FT	180		
44000100	PAVEMENT REMOVAL	SQ YD	6681		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	3437		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	673		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	4642		
44000600	SIDEWALK REMOVAL	SQ FT	2737		
44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	295		
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	1180		
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	1180		
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	295		
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	218		
60107600	PIPE UNDERDRAINS 4"	FOOT	251		
60200405	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 4 FRAME AND GRATE	EACH	2		
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	3		
60207205	CATCH BASINS, TYPE C, TYPE 4 FRAME AND GRATE	EACH	4		
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	2		
60221300	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 4 FRAME AND GRATE	EACH	4		
60500060	REMOVING INLETS	EACH	4		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	4642		
67100100	MOBILIZATION	LSUM	1		
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	49		
X0327611	REMOVE AND REINSTALL BRICK PAVER	SQ FT	109		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1		
Z0013798	CONSTRUCTION LAYOUT	LSUM	1		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4		
Z0056604	STORM SEWER (WATER MAIN REQUIREMENTS) 8 INCH	FOOT	10		
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	17		

RETURN WITH BID

CONTRACTOR CERTIFICATIONS

County	<u>DuPage/Cook</u>
Local Public Agency	<u>Hanover Park</u>
Section Number	<u>15-00065-00-PV</u>
Route	<u>Celebrity Circle</u>

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

1. **Debt Delinquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the 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.

**RETURN WITH BID**

**SIGNATURES**

County DuPage/Cook  
Local Public Agency Hanover Park  
Section Number 15-00065-00-PV  
Route Celebrity Circle

(If an individual)

Signature of Bidder \_\_\_\_\_

Business Address \_\_\_\_\_  
\_\_\_\_\_

(If a partnership)

Firm Name \_\_\_\_\_

Signed By \_\_\_\_\_

Business Address \_\_\_\_\_  
\_\_\_\_\_

Inset Names and Addressed of All Partners



\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(If a corporation)

Corporate Name \_\_\_\_\_

Signed By \_\_\_\_\_

President

Business Address \_\_\_\_\_  
\_\_\_\_\_

Inset Names of Officers



President \_\_\_\_\_

Secretary \_\_\_\_\_

Treasurer \_\_\_\_\_

Attest: \_\_\_\_\_  
Secretary

## **INFORMATION FOR BIDDERS/GENERAL CONDITIONS**

### **1. Proposal**

All proposals must be on the forms provided in the copy of the specifications and contract stipulations hereto attached. All proposals must be legibly written in ink with all prices given in figures. Each proposal must be enclosed in a sealed envelope addressed to the Village Clerk, Village of Hanover Park, Illinois, and endorsed on the outside of the envelope, "Bid for Celebrity Circle Reconstruction / Resurfacing (MFT Section 15-00065-00-PV)" and filed in the Village Clerk's office at Hanover Park, Illinois, prior to 11 :00 a.m. on January 28, 2016,

### **2. Special Notice**

Bidders shall inform themselves of the condition of the site and applicable Village and State laws, obstacles to be encountered, and all other relevant matters concerning the work to be performed, and the Village shall not be obliged in any way by reason of any matter of thing concerning which such bidder might have so informed himself prior to the bidding.

### **3. Bid Award**

Security deposited by unsuccessful bidders will be returned as soon as possible after the award is made and successful bidder has executed his contract and furnished contract bond.

### **4. Time of Completion**

The successful bidder will be required to complete the work within the time stipulated in his proposal. It will be necessary for the bidder to satisfy the Village of his ability or as to his arrangements to execute the work within the time stipulated.

### **5. Bonds**

Within ten (10) calendar days after acceptance of bid by the Village, the successful bidder shall furnish contract performance bond, acceptable to the Village in full amount of his contract.

### **6. Specifications**

The ordinances and regulations of the Village of Hanover Park, the "Standard Specifications for Road and Bridge Construction", prepared by The Department of Transportation of the State of Illinois and adopted by said Department January 1, 2012, hereinafter known as "Standard Specifications", and the specifications and special provisions provided herein shall govern the construction of the proposed improvement designated as "Celebrity Circle Reconstruction / Resurfacing (MFT Section 15-00065-00-PV)"

### **7. Definition**

Anywhere in the specifications where the word Department is stated, Department shall be construed to mean the Village of Hanover Park.

### **8. Responsibility**

The Contractor will be held responsible for any accidents due to his negligence. The

Contractor shall provide barricades with flashers to mark any hazards created by construction, such as exposed manholes, pavement removal, areas of excavation, etc. The Engineer shall be the sole judge as to the acceptability of barricade placement.

**9. Prevailing Wages**

Not less than the prevailing rate of wages as found by the Village of Hanover Park or the Department of Labor as determined by the court on review shall be paid to all laborers, workmen and mechanics performing under this contract.

**10. Bid Bond**

A five (5%) percent bid bond, cashier's check, bank draft or certified check shall accompany all proposals.

**11. Prequalification**

Prequalification of all bidders in conformance with Section 102.01 of the Standard Specifications and special provision LRS6 is required and proposal forms will only be issued to contractors who furnish a certified or photostatic copy of a "Certificate of Eligibility" issued by the Illinois Department of Transportation.

**12. Receiving Bids**

Bids received prior to the time of opening will be securely kept, unopened. The Village Clerk, whose duty it is to open them will decide when the specified time has arrived, and no bid received thereafter will be considered. No responsibility will be attached to the Village Clerk or the Village for the premature or non-opening of a bid not properly addressed and identified, except as otherwise provided by law.

**13. Permits and Licenses**

The successful bidder shall obtain, at their own expense, all permits and licenses which may be required to complete the contract. Fees for all Village permits and licenses shall be waived.

**14. Waiver of Liens**

The Contractor shall procure, from each subcontractor and supplier of material or labor, a waiver of any claim which they may have under the mechanics lien laws of the State in which the work is located, to insure the Village immunity from mechanics liens on account of anything which is done by the Contractor or his subcontractors in carrying out the contract and any work orders for additions thereto, all as a condition of any payment by the Village on account of the contract. Any payments made by the Village without requiring compliance with this paragraph shall not be construed as a waiver of the Village of the right to require compliance with this paragraph as a condition of later payments.

The Contractor shall furnish with his request for final payment a complete release of all liens arising out of this contract, or receipts in full in lieu thereof and an affidavit that the releases and receipts include all labor and materials for which a lien could be filed.

**15. Forms**

All bids must be submitted on the forms provided, complete with all blank spaces filled in and properly signed in ink in the proper spaces and submitted in a sealed envelope. All bid forms may be obtained from the Office of the Village Clerk, 2121 West Lake Street,

Hanover Park, IL 60133 and when completed delivered to the Office of the Village Clerk prior to the bid opening date and time. Bids must be identified as such on the outside of the sealed envelope by marking the envelope "SEALED BID" and with the following information: Company's name, address, item bid, date and time of opening. Bidders may attach separate sheets for the purpose of explanation, exception, or alternative proposal and to cover required unit prices.

16. **Examination of Bid Forms, Specifications, and Site**

The bidder shall carefully examine the bid forms which may include the invitation to bid, instruction to bidders, general conditions, special conditions, plans, specifications, bond, contract, and any addenda to them, and sites of the proposed work (when known) before submitting the bid. The submission of the bid shall be considered conclusive evidence that the bidder has investigated and is satisfied as to all conditions to be encountered in performing the work, and is fully informed as to character, quality, quantities, and costs of work to be performed and materials to be furnished, and as to the requirements of the bid forms. If the bid is accepted, the bidder will be responsible for all errors in his proposal resulting from his failure or neglect to comply with these instructions, and the Village shall not be responsible for any charge for extra work or change in anticipated profits resulting from such failure or neglect.

17. **Interpretation of Bid Documents**

Questions regarding bid documents, discrepancies, omissions, or intent of the specifications or plans shall be submitted in writing to the Village Clerk at least ten (10) working days prior to opening of bids to provide time for issuing and forwarding an addendum. Any interpretations of the Contract Documents will be made only by addendum duly issued or delivered by the Village to each person receiving a set of bid documents. The Village will not be responsible for any other explanations for interpretations of the Contract Documents.

Letters, requested interpretations, clarifications, and/or explanations shall be so noted on the outside of the envelope and on the first page of the letter with the words, **INTERPRETATION REQUEST**. Letters not properly marked will not be considered as a formal request. Any letter received within ten working days of the bid date will be returned unopened.

18. **Bid Guarantee**

Unless specifically waived, each bid shall be accompanied by a bid deposit in an amount of five percent (5%) of the full amount of the bid in the form of a certified or bank cashier's check or bid bond. In a reasonable time after the bid opening, bid deposits of all except the three lowest responsible bidders will be released. The remaining deposits will be released after the successful bidder has entered into the contract and furnished the required insurance and bonds. The bid deposit shall become the property of the Village if the successful bidder within fourteen (14) days from awarding the contract refuses or is unable to comply with the contract requirements.

19. **Receiving Bids**

Bids received prior to the time of opening will be securely kept, unopened. The Village Clerk, whose duty it is to open them will decide when the specified time has arrived, and

no bid received thereafter will be considered. No responsibility will be attached to the Village Clerk or the Village for the premature or non-opening of a bid not properly addressed and identified, except as otherwise provided by law.

**20. Late and Fax Bids**

Bids arriving after the specified time, whether sent by mail, courier, or in person, will not be accepted and will be refused and returned unopened. It is the bidder's responsibility for timely delivery regardless of the methods used. Mailed bids which are delivered after the specified hour will not be accepted regardless of postmarked time on the envelope. Facsimile machine transmitted bids will not be accepted, nor will the Village transmit bid documents to prospective bidders by way of a facsimile machine.

**21. Completeness**

All information required by the Invitation to Bid must be supplied to constitute a responsive bid.

**22. Error in Bids**

When an error is made in extending total prices, the unit bid price and/or written words shall govern. Otherwise, the bidder is not relieved from errors in bid preparation. Erasures in bids must be explained over signature of bidder.

**23. Withdrawal of Bids**

A written request for the withdrawal of a bid or any part thereof may be granted if the request is received by the Village Clerk prior to the specified time of opening. After the opening, the bidder cannot withdraw or cancel his bid for a period of forty-five (45) calendar days, or such longer time as stated in the bid documents.

**24. Bidder Interested in More than One Bid**

Unless otherwise specified, if more than one bid is offered by anyone party, by or in the name of his or their agent, partner, or other persons, all such bids may be rejected. A party who has quoted prices on work, materials, or supplies to other bidders is not thereby disqualified from quoting prices to other bidders or from submitting a bid directly for the work, materials, or supplies.

**25. Samples**

Samples or drawings requested shall be delivered and removed at no cost to the Village. The Village shall not be responsible for damage to samples. Samples shall be removed by the bidder within thirty (30) days after notification. Samples must be submitted prior to the time set for the opening of bids.

**26. Equipment or Materials**

Each bidder shall submit catalogs, descriptive literature, and detailed drawings necessary to fully describe those features or the material or work not covered in the specifications. The parts and materials bids must be of current date (latest model) and meet specifications. This provision excludes surplus, remanufactured, and used products except as an alternate bid. The brand name and/or manufacturer of each item proposed must be clearly stated. Guarantee and/or warranty information must be included with this bid.

**27. Estimated Bid Quantities**

On "Estimated Quantities", the Village may purchase more or less than the estimates. The Contractor shall not be required to deliver more than ten (10) percent in excess of the estimated quantity of each item, unless otherwise agreed upon.

**28. Trade Names -Alternative Bid**

When an item is identified in the specifications by a manufacturer's or trade name or catalog number, the bidder shall bid upon the item so identified.

If the specifications state "or equal" bids on other items will be considered, provided the bidder clearly identifies in his proposal the item to be furnished, together with any descriptive matter which will indicate the character of the item.

Bidders desiring to bid on items which deviate from these specifications, but which they believe are equivalent, are requested to submit alternate bids. However, ALTERNATE BIDS MUST BE CLEARLY INDICATED AS SUCH AND DEVIATIONS FROM THE APPLICABLE SPECIFICATIONS PLAINLY NOTED. The bid must be accompanied by complete specifications for the items offered. Bidders wishing to submit a secondary bid must submit it as an alternate bid.

The Village shall be the sole and final judge unequivocally as to whether any substitute from the specifications is of equivalent or better quality.

**29. Price**

Unit prices shall be shown for each unit on which there is a bid as well as the aggregate price and shall include all packing, crating, freight and shipping charges, and cost of unloading at the destination unless otherwise stated in the bid.

Unit prices shall not include any local, state, or federal taxes. The Village is exempt, by law, from paying State and Village Retailer's Occupation Tax, State Service Occupation and Use Tax and Federal Excise Tax. The Village will supply the successful bidder with its tax exemption number. Cash discounts will not be considered in determining overall price, but may be used in an overall evaluation.

**30. Consideration of Bid**

No bid will be accepted from or contract awarded to any person, firm or corporation that is in arrears or is in default to the Village upon any debt or contract, or that is a defaulter, as surety or otherwise, upon any obligation to the Village or had failed to perform faithfully any previous contract with the Village. The bidder, if requested, shall present within 48 hours evidence satisfactory to the Village of performance ability and possession of necessary facilities, pecuniary recourses and adequate insurance to comply with the terms of these specifications and contract documents.

**31. Award or Rejection**

The Village reserves the right to reject and/or award any and all bids or parts thereof and to waive formalities and technicalities according to the best interests of the Village. Any bid submitted will be binding for forty-five (45) days subsequent to the date of the bid opening. A contract will be awarded to the lowest responsible bidder complying with the conditions of the contract documents only when it is in the best interest of the Village to

accept the bid. The Village shall be the sole judge of compliance with the specifications and reserves the right to accept or reject any and/or all bids or parts thereof.

**32. Execution of Contract**

The successful bidder shall, within fourteen (14) days after notification of the award: (a) enter into a contract in writing with the Village covering all matters and things as are set forth in the specifications and his bid and (b) carry insurance acceptable to the Village, covering public liability, property damage, and workmen's compensation. After the acceptance and award of the bid and upon receipt of a written purchase order executed by the proper officials of the Village, this Instruction to Bidders, including the specifications, will constitute part of the legal contract between the Village of Hanover Park and the successful bidder.

**33. Payment**

Final payment will be made within thirty (30) days after acceptance of the job by the Village after the completion of the work as covered within the contract documents. Periodic progress payments will also be paid with a 10% retainage held until final acceptance.

**34. Compliance with All Laws**

All work under the contract must be executed in accordance with all applicable federal, state, and local laws, ordinances, rules, and regulations which may in any manner affect the preparation of the bid or performance of the contract. This includes paying the prevailing rate of wages as established by the Village which requires that the Contractor and each subcontractor pay its laborers, workers, and mechanics constructing public works under this contract not less than the prevailing wages as determined by the Illinois Department of Labor pursuant to the Prevailing Wage Act (820 ILCS 13010.01 et seq.). It shall be the responsibility of the Contractor to monitor the prevailing wage rates for any increase in rates during the contract and adjust wage rates accordingly. The current prevailing wage rates are available on the Illinois Department of Labor web site at [www.state.il.us/agency/ildol](http://www.state.il.us/agency/ildol) or by calling the Village of Hanover Park at 630-372-4220.

The Contractor and its subcontractors shall comply with Section 5 of the Act that requires the Contractor and its subcontractors to submit to the Village monthly certified payroll records 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 or subcontractor is aware that filing records it knows to be false is a Class B misdemeanor. Each month's certified payroll(s) must be filed with the Village before the end of the next month or prior to payment by the Village for work that includes that payroll.

**35. Contract Alterations**

No amendment of a contract shall be valid unless made in writing and signed by the Village Manager or his authorized agent.

**36. Notices**

All notices required by the contract shall be given in writing.

**37. Nonassignability**

The Contractor shall not assign the contract, or any part thereof, to any other person,

firm, or corporation without the previous written consent of the Village Manager. Such assignment shall not relieve the Contractor from his obligations, or change the terms of the contract.

**38. Indemnity**

To the fullest extent permitted by law, the Contractor hereby agrees to defend, indemnify, and hold harmless the Village, its officials, agents, and employees, against all injuries, deaths, loss, damages, claims, patent claims, suits, liabilities, judgments, cost, and expenses, which may in anywise accrue against the Village, its officials, agents, and employees, arising in whole or in part or in consequence of the performance of this work by the Contractor, its employees, or subcontractors, or which may anywise result therefore, except that arising out of the sole legal cause of the Village, its agents, or employees, the Contractor shall, at its own expense, appear, defend, and pay all charges of attorneys and all costs and other expenses arising therefore or incurred in connections therewith, and, if any judgment shall be rendered against the Village, its officials, agents, and employees, in any such action, the Contractor shall, at its own expense, satisfy and discharge the same. Contractor expressly understands and agrees that any performance bond or insurance policies required by this contract, or otherwise provided by the Contractor, shall in no way limit the responsibility to indemnify, keep, and save harmless and defend the Village, its officials, agents, and employees as herein provided.

**39. Equal Employment Opportunity**

During the performance of the contract and/or supplying of materials, equipment, and suppliers, bidder must be in full compliance with all provisions of the Acts of the General Assembly of the State of Illinois relating to employment, including equal opportunity requirements.

**40. Default**

The Village may terminate a contract by written notice of default to the Contractor if:

- a. The Contractor fails to make delivery of the materials or perform the services within the time specified in the proposal, or
- b. fails to make progress so as to endanger performance of the contract, or
- c. fails to provide or maintain in full force and effect, the liability and indemnification coverages or performance bond as required.

If the Village terminates the contract, the Village may procure supplies or services similar to those so terminated, and the Contractor shall be liable to the Village for any excess costs for similar supplies and services, unless the Contractor provides acceptable evidence that failure to perform the contract was due to causes beyond the control and without the fault or negligence of the Contractor.

**41. Inspection**

The Village shall have a right to inspect, by its authorized representative, any material,

components, or workmanship as herein specified. Materials, components, or workmanship that have been rejected by the authorized representative as not in accordance with the terms of the specifications shall be replaced by the Contractor at no cost to the Village.

**42. Supplementary Conditions**

Wherever special conditions are written into the specifications or supplementary conditions which are in conflict with conditions stated in these Instructions to Bidder, the conditions stated in the specifications or supplementary conditions shall take precedence.

**43. Insurance**

Contractor shall procure and maintain, for the duration of the contract, insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees, or subcontractors.

In submission of a bid, the bidder is certifying that he has all insurance coverages required by law or would normally be expected for bidder's type of business. In addition, the bidder is certifying that he has or will obtain at least the insurance coverages on the attached Liability Insurance Contract Specifications.

**Minimum Scope of Insurance**

Coverage shall be at least as broad as:

- A. Insurance Services Office Commercial General Liability Occurrence Form CG 0001 with the Village named as additional insured, including ISO Additional Insured Endorsement CG 2010 Pre-2004 version, CG 2026 Pre-2004 version.

**CG2037 -Completed Operations -Required if box is checked**

- B. Owners and Contractors Protective Liability (OCP) policy with the Village as insured

**Required if box is checked**

- C. Insurance Service Office Business Auto Liability Coverage Form Number CA 0001, Symbol 01 "Any Auto."

- D. Workers' Compensation as required by the Workers' Compensation Act of the State of Illinois and Employers' Liability insurance.

**Coverage required for employee exposure to lead, if box is checked**

- E. Builder Risk Property Coverage with Village as loss payee.

**Required if box is checked**

- F. Environmental Impairment/Pollution Liability Coverage for pollution incidents as a result of a claim for bodily injury, property damage, or remediation costs from an

incident at, on, or mitigating beyond the contracted work site. Coverage shall be extended to non-owned disposal sites resulting from a pollution incident at, on, or mitigating beyond the site; and also provide coverage for incidents occurring during transportation of pollutants.

Required if box is checked

### **Minimum Limits of Insurance**

Contractor shall maintain limits no less than the following, **if required under above scope:**

- A. Commercial General Liability: \$1,000,000 combined single limit per occurrence for bodily injury and property damage and \$1,000,000 per occurrence for personal injury. The general aggregate shall be twice the required occurrence limit. Minimum General Aggregate shall be no less than \$2,000,000 or a project/contract specific aggregate of \$1, 000,000.
- B. Owners and Contractors Protective Liability (OCP): \$1,000,000 combined single limit per occurrence for bodily injury and property damage.
- C. Business Automobile Liability: \$1,000,000 combined single limit per accident for bodily injury and property damage.
- D. Workers' Compensation and Employers' Liability: Workers' Compensation coverage with statutory limits and Employers' Liability limits of \$500,000 per accident.
- E. Builder's Risk: Shall insure against "All Risk" of physical damage, including water damage (flood and hydrostatic pressure not excluded) on a completed replacement cost basis.
- F. Environmental Impairment/Pollution Liability: \$1,000,000 combined single limit per occurrence for bodily injury, property damage, and remediation costs.

### **Deductibles and Self-Insured Retentions**

Any deductibles or self-insured retentions must be declared to and approved by the Village. At the option of the Village, either the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the Village, its officials, agents, employees, and volunteers, or the Contractor shall procure a bond guaranteeing payment of losses and related investigation, claim administration, and defense expenses.

### **Other Insurance Provisions**

The policies are to contain, or be endorsed to contain, the following provisions:

- A. **General Liability and Automobile Liability Coverages**
  - 1. The Village, its officials, agents, employees, and volunteers are to be covered

as additional insureds as respects: liability arising out of the Contractor's work, including activities performed by or on behalf of the Contractor; products and completed operations of the Contractor; premises owned, leased, or used by the Contractor; or automobiles owned, leased, hired, or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the Village, its officials, agents, employees, and volunteers.

2. The Contractor's insurance coverage shall be primary as respects the Village, its officials, agents, employees, and volunteers. Any insurance or self-insurance maintained by the Village, its officials, agents, employees, and volunteers shall be excess of Contractor's insurance and shall not contribute with it.

3. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Village, its officials, agents, employees, and volunteers.

4. The Contractor's insurance shall contain a Severability of Interests/Cross Liability clause or language stating that Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

5. If any commercial general liability insurance is being provided under an excess or umbrella liability policy that does not "follow form," then the Contractor shall be required to name the Village, its officials, agents, employees, and volunteers as additional insureds.

6. All general liability coverages shall be provided on an occurrence policy form. Claims-made general liability policies will not be accepted.

**B. Workers' Compensation and Employers' Liability Coverage**

The insurer shall agree to waive all rights of subrogation against the Village, its officials, agents, employees, and volunteers for losses arising from work performed by Contractor for the Village.

1. NCCI Alternate Employer Endorsement (WC 000301) in place to insure that workers' compensation coverage applies under Contractor's coverage rather than Village's if the Village is borrowing, leasing, or in day-to-day control of Contractor's employee.

**Required if box is checked**

**C. Professional Liability (Required if box is checked  )**

Professional liability insurance with limits not less than as required in the attached exhibit.

**D. All Coverages**

Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, cancelled, reduced in coverage, or in limits except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the Village.

### **Acceptability of Insurers**

Insurance is to be placed with insurers with a Best's rating of no less than A-, VII and licensed to do business in the State of Illinois.

### **Verification of Coverage**

Contractor shall furnish the Village with certificates of insurance naming the Village, its officials, agents, employees, and volunteers as additional insureds, and with original endorsements affecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements may be on forms provided by the Village and are to be received and approved by the Village before any work commences. Other additional insured endorsements may be utilized, if they provide a scope of coverage at least as broad as the coverage such as ISO Additional Insured Endorsements CG 2010 or CG 2026. The Village reserves the right to request full certified copies of the insurance policies and endorsements.

### **Subcontractors**

Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

### **Assumption of Liability**

The Contractor assumes liability for all injury to or death of any person or persons including employees of the Contractor, any subcontractor, any supplier, or any other person and assumes liability for all damage to property sustained by any person or persons occasioned by or in any way arising out of any work performed pursuant to this agreement.

## SPECIAL PROVISIONS INDEX

LOCATION OF PROJECT .....	1
DESCRIPTION OF PROJECT .....	1
PAVEMENT SUBGRADE PREPARATION .....	1
MAINTENANCE OF ROADWAYS (D1) .....	1
STATUS OF UTILITIES TO BE ADJUSTED .....	2
STORM SEWER ADJACENT TO OR CROSSING WATER MAIN (D-1) .....	2
RESTRICTION ON WORKING DAYS AFTER A COMPLETION DATE .....	3
COMPLETION DATE PLUS WORKING DAYS .....	3
TRAFFIC CONTROL AND PROTECTION (ARTERIALS) .....	4
TRAFFIC CONTROL PLAN (D1) .....	4
AGGREGATE SUBGRADE IMPROVEMENT (D-1) .....	5
COARSE AGGREGATE FOR BACKFILL, TRENCH BACKFILL AND BEDDING (D-1) .....	7
DRAINAGE AND INLET PROTECTION UNDER TRAFFIC (D1) .....	7
FRICTION AGGREGATE (D1) .....	8
GROUND TIRE RUBBER (GTR) MODIFIED ASPHALT BINDER (D1) .....	11
HMA MIXTURE DESIGN REQUIREMENTS (D1) .....	12
PUBLIC CONVENIENCE AND SAFETY (D1) .....	25
RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (D1) .....	25
TEMPORARY INFORMATION SIGNING (D1) .....	34
REMOVE AND REINSTALL BRICK PAVERS .....	35
BDE SPECIAL PROVISIONS	
STORM WATER POLLUTION PREVENTION PLAN	
NOTICE OF INTENT	

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:

<u>CHECK SHEET #</u>	<u>RECURRING SPECIAL PROVISIONS</u>	<u>PAGE NO.</u>
1	<input type="checkbox"/> Additional State Requirements for Federal-Aid Construction Contracts	163
2	<input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts)	166
3	<input type="checkbox"/> EEO	167
4	<input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts	177
5	<input type="checkbox"/> Required Provisions - State Contracts	182
6	<input type="checkbox"/> Asbestos Bearing Pad Removal	188
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos Hot-Mix Asphalt Surface Removal	189
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	190
9	<input type="checkbox"/> Construction Layout Stakes Except for Bridges	191
10	<input checked="" type="checkbox"/> Construction Layout Stakes	194
11	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	197
12	<input type="checkbox"/> Subsealing of Concrete Pavements	199
13	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	203
14	<input type="checkbox"/> Pavement and Shoulder Resurfacing	205
15	Reserved	206
16	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	207
17	<input type="checkbox"/> Polymer Concrete	208
18	<input type="checkbox"/> PVC Pipeliner	210
19	<input checked="" type="checkbox"/> Pipe Underdrains	211
20	<input type="checkbox"/> Guardrail and Barrier Wall Delineation	212
21	<input type="checkbox"/> Bicycle Racks	216
22	Reserved	218
23	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals	219
24	<input type="checkbox"/> Work Zone Public Information Signs	221
25	<input type="checkbox"/> Nighttime Inspection of Roadway Lighting	222
26	<input type="checkbox"/> English Substitution of Metric Bolts	223
27	<input type="checkbox"/> English Substitution of Metric Reinforcement Bars	224
28	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	225
29	Reserved	226
30	<input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant	227
31	<input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	235
32	<input type="checkbox"/> Digital Terrain Modeling for Earthwork Calculations	251
33	<input type="checkbox"/> Pavement Marking Removal	253
34	<input type="checkbox"/> Preventive Maintenance – Bituminous Surface Treatment	254
35	<input type="checkbox"/> Preventive Maintenance – Cape Seal	260
36	<input type="checkbox"/> Preventive Maintenance – Micro-Surfacing	275
37	<input type="checkbox"/> Preventive Maintenance – Slurry Seal	286
38	<input type="checkbox"/> Temporary Raised Pavement Markers	296
39	<input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam	297

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

<u>CHECK SHEET #</u>	<u>PAGE NO.</u>
LRS 1	301
LRS 2	302
LRS 3	303
LRS 4	304
LRS 5	305
LRS 6	306
LRS 7	312
LRS 8	318
LRS 9	319
LRS 10	320
LRS 11	321
LRS 12	323
LRS 13	325
LRS 14	326
LRS 15	329
LRS 16	330
LRS 17	331
LRS 18	332

**STATE OF ILLINOIS**

**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 herein which apply to and govern the Celebrity Circle Reconstruction / Resurfacing Project in the Village of Hanover Park in DuPage/Cook County, and in case of conflict with any part or parts of said specifications; the said Special Provisions shall take precedence and shall govern.

**LOCATION OF PROJECT**

The proposed reconstruction and resurfacing of Celebrity Circle is located in the Village of Hanover Park, Illinois, DuPage/Cook County. The project is a residential road that services a neighborhood. The project is located south of Greenbrook Blvd and Celebrity Circle is accessed via Hardy Drive and/or Star Drive. A location map is shown on the cover of the plans.

Section 7, Township 40N, Range 10E, 3<sup>rd</sup> PM (41.58'21.78"N / 88.08'32.87"W)

**DESCRIPTION OF PROJECT**

The work consists of the reconstruction and resurfacing of Celebrity Circle. The project consists of pavement removal, surface removal / mill, earth excavation, curb removal, potential undercut areas, inlet and storm sewer removal. The project also consists of the installation of proposed storm sewer and inlets, aggregate subgrade improvement, HMA binder and HMA surface course, curb and gutter construction, erosion control blanket, sodding, and all other incidental and collateral work necessary to complete the improvements as shown in the plans and described herein.

**PAVEMENT SUBGRADE PREPARATION**

Prior to paving the prepared subgrade shall be proof rolled using a loaded tandem, axle dump truck or similar type pneumatic tired equipment with a minimum gross weight of 9 tons per single axle and as directed by the Engineer. If the prepared subgrade test (Static Cone Penetrometer or Dynamic Cone Penetrometer) results appear satisfactory to the Engineer, the Porous Granular Embankment subgrade and Geotechnical Fabric may not be needed at that location as determined by the Engineer. The soil report is attached to this document.

**MAINTENANCE OF ROADWAYS (D-1)**

Effective: September 30, 1985

Revised: November 1, 1996

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

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

**STATUS OF UTILITIES TO BE ADJUSTED**

Effective: January 30, 1987  
 Revised: January 24, 2013

Utility companies involved in this project have provided the following estimated durations:

Name of Utility	Type	Location	Conflict	Estimated Duration of Relocation or Adjustments
N/A	N/A	N/A	N/A	N/A

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

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

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

**STORM SEWER ADJACENT TO OR CROSSING WATER MAIN (D-1)**

Effective: February 1, 1996  
 Revised: January 1, 2007

This work consists of constructing storm sewer adjacent to or crossing a water main, at the locations shown on the plans. The material and installation requirements shall be according to the latest edition of the "Standard Specifications for Water and Sewer Main Construction in Illinois", and the applicable portions of Section 550 of the Standard Specifications; which may include concrete collars and encasing pipe with seals if required.

Pipe materials shall meet the requirements of Sections 40 and 41-2.01 of the "Standard Specifications for Water and Sewer Main Construction in Illinois", except PVC pipe will not be allowed. Ductile-Iron pipe shall meet the minimum requirements for Thickness Class 50.

Encasing of standard type storm sewer, according to the details for "Water and Sewer Separation Requirements (Vertical Separation)" in the "STANDARD DRAWINGS" Division of

the "Standard Specifications for Water and Sewer Main Construction in Illinois", may be used for storm sewers crossing water mains.

Basis of Payment: This work will be paid according to Article 550.10 of the Standard Specifications, except the pay item shall be STORM SEWER (WATER MAIN REQUIREMENTS), of the diameter specified.

**RESTRICTION ON WORKING DAYS AFTER A COMPLETION DATE**

Effective: January 21, 2003

Revised: January 1, 2007

All temporary lane closures during the period governed by working days after a completion date will not be permitted during the hours of 6:00 a.m. to 9:00 a.m. and 3:00 p.m. to 6:00 p.m. Monday through Friday.

All lane closure signs shall not be erected any earlier than one-half (1/2) hour before the starting hours listed above. Also, these signs should be taken down within one-half (1/2) hour after the closure is removed.

Failure to Open Traffic Lanes to Traffic: Should the Contractor fail to completely open and keep open all the traffic lanes to traffic in accordance with the limitations specified above, the Contractor shall be liable and shall pay to the Department the amount of \$250 per lane blocked, not as a penalty but as liquidated and ascertained damages, for each and every 15 minute interval or a portion thereof that a lane is blocked outside the allowable time limitations. The Department may deduct such damages from any monies due the Contractor. These damages shall apply during the period governed by working days after a completion date and any extensions of that contract time.

**COMPLETION DATE PLUS WORKING DAYS**

Effective: September 30, 1985

Revised: January 1, 2007

Revise Article 108.05 (b) of the Standard Specifications as follows:

"When a completion date plus working days is specified, the Contractor shall complete all contract items and safely open all roadways to traffic by 11:59 PM on, July 1, 2016 except as specified herein.

The Contractor will be allowed to complete all clean-up work and punch list items within 10 working days after the completion date for opening the roadway to traffic. Under extenuating circumstances the Engineer may direct that certain items of work, not affecting the safe opening of the roadway to traffic, may be completed within the working days allowed for clean up work and punch list items. Temporary lane closures for this work may be allowed at the discretion of the Engineer.

Article 108.09 or the Special Provision for "Failure to Complete the Work on Time", if included in this contract, shall apply to both the completion date and the number of working days.

**TRAFFIC CONTROL AND PROTECTION (ARTERIALS)**

Effective: February 1, 1996

Revised: March 1, 2011

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

When traffic is to be directed over a detour route, the Contractor shall furnish, erect, maintain and remove all applicable traffic control devices along the detour route according to the details shown in the plans.

Method of Measurement: All traffic control (except Traffic Control and Protection (Expressways)) and temporary pavement markings) indicated on the traffic control plan details and specified in the Special Provisions will be measured for payment on a lump sum basis.

Basis of Payment: All traffic control and protection will be paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION (SPECIAL).

Temporary pavement markings will be paid for separately unless shown on a Standard.

**TRAFFIC CONTROL PLAN (D-1)**

Effective: September 30, 1985

Revised: January 1, 2007

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

Special attention is called to Article 107.09 of the Standard Specifications and the following Highway Standards, Details, Quality Standard for Work Zone Traffic Control Devices, Recurring Special Provisions and Special Provisions contained herein, relating to traffic control.

The Contractor shall contact the District One Bureau of Traffic at least 72 hours in advance of beginning work.

STANDARDS:

- 701301 Lane Closure, 2L, 2W, Short Time Operations
- 701501 Urban Lane Closure, 2L, 2W, Undivided
- 701801 Sidewalk, Corner or Crosswalk Closure
- 701901 Traffic Control Devices

DETAILS:

- TC-10 Traffic Control and Protection For Side Roads, Intersections, and Driveways
- TC-22 Arterial Road Information Sign

SPECIAL PROVISIONS:

Maintenance of Roadways – District 1  
Public Convenience and Safety – District 1  
Temporary Information Signing – District 1

**AGGREGATE SUBGRADE IMPROVEMENT (D-1)**

Effective: February 22, 2012  
Revised: March 3, 2015

Add the following Section to the Standard Specifications:

**“SECTION 303. AGGREGATE SUBGRADE IMPROVEMENT**

**303.01 Description.** This work shall consist of constructing an aggregate subgrade improvement.

**303.02 Materials.** Materials shall be according to the following.

Item	Article/Section
(a) Coarse Aggregate .....	1004
(b) Reclaimed Asphalt Pavement (RAP) (Notes 1, 2 and 3) .....	1031

Note 1. Crushed RAP, from either full depth or single lift removal, may be mechanically blended with aggregate gradation CS 01 but shall not exceed 40 percent by weight of the total product. The top size of the Coarse RAP shall be less than 4 in. (100 mm) and well graded.

Note 2. RAP having 100 percent passing the 1 1/2 in (37.5 mm) sieve and being well graded, may be used as capping aggregate in the top 3 in. (75 mm) when aggregate gradation CS 01 is used in lower lifts. When RAP is blended with any of the coarse aggregates, the blending shall be done with mechanically calibrated feeders. The final product shall not contain more than 40 percent by weight of RAP.

Note 3. The RAP used for aggregate subgrade improvement shall be according to the current Bureau of Materials and Physical Research Policy Memorandum, “Reclaimed Asphalt Pavement (RAP) for Aggregate Applications”.

**303.03 Equipment.** The vibratory machine shall be according to Article 1101.01, or as approved by the Engineer. The calibration for the mechanical feeders shall have an accuracy of ± 2.0 percent of the actual quantity of material delivered.

**303.04 Soil Preparation.** The stability of the soil shall be according to the Department's Subgrade Stability Manual for the aggregate thickness specified.

**303.05 Placing Aggregate.** The maximum nominal lift thickness of aggregate gradation CS 01 shall be 24 in. (600 mm).

**303.06 Capping Aggregate.** The top surface of the aggregate subgrade shall consist of a minimum 3 in. (75 mm) of aggregate gradations CA 06 or CA 10. When Reclaimed Asphalt Pavement (RAP) is used, it shall be crushed and screened where 100 percent is passing the

1 1/2 in. (37.5 mm) sieve and being well graded. RAP that has been fractionated to size will not be permitted for use in capping. Capping aggregate will not be required when the aggregate subgrade improvement is used as a cubic yard pay item for undercut applications. When RAP is blended with any of the coarse aggregates, the blending shall be done with mechanically calibrated feeders.

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

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

**303.09 Method of Measurement.** This work will be measured for payment according to Article 311.08.

**303.10 Basis of Payment.** This work will be paid for at the contract unit price per cubic yard (cubic meter) for AGGREGATE SUBGRADE IMPROVEMENT or at the contract unit price per square yard (square meter) for AGGREGATE SUBGRADE IMPROVEMENT, of the thickness specified.

Add the following to Section 1004 of the Standard Specifications:

**1004.06 Coarse Aggregate for Aggregate Subgrade Improvement.** The aggregate shall be according to Article 1004.01 and the following.

- (a) Description. The coarse aggregate shall be crushed gravel, crushed stone, or crushed concrete. The top 12 inches of the aggregate subgrade improvement shall be 3 inches of capping material and 9 inches of crushed gravel, crushed stone or crushed concrete. In applications where greater than 36 inches of subgrade material is required, rounded gravel, meeting the CS01 gradation, may be used beginning at a depth of 12 inches below the bottom of pavement.
- (b) Quality. The coarse aggregate shall consist of sound durable particles reasonably free of deleterious materials. Non-mechanically blended RAP may be allowed up to a maximum of 5.0 percent.
- (c) Gradation.
  - (1) The coarse aggregate gradation for total subgrade thicknesses of 12 in. (300 mm) or greater shall be CS 01.

Grad No.	COARSE AGGREGATE SUBGRADE GRADATIONS				
	Sieve Size and Percent Passing				
	8"	6"	4"	2"	#4
CS 01	100	97 ± 3	90 ± 10	45 ± 25	20 ± 20

COARSE AGGREGATE SUBGRADE GRADATIONS (Metric)					
Grad No.	Sieve Size and Percent Passing				
	200 mm	150 mm	100 mm	50 mm	4.75 mm
CS 01	100	97 ± 3	90 ± 10	45 ± 25	20 ± 20

(2) The 3 in. (75 mm) capping aggregate shall be gradation CA 6 or CA 10.

**COARSE AGGREGATE FOR BACKFILL, TRENCH BACKFILL AND BEDDING (D-1)**

Effective: November 1, 2011

Revised: November 1, 2013

This work shall be according to Section 1004.05 of the Standard Specifications except for the following:

Reclaimed Asphalt Pavement (RAP) maybe blended with gravel, crushed gravel, crushed stone crushed concrete, crushed slag, chats, crushed sand stone or wet bottom boiler slag. The RAP used shall be according to the current Bureau of Materials and Physical Research Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications". The RAP shall be uniformly graded and shall pass the 1.0 in. (25 mm) screen. When RAP is blended with any of the coarse aggregate listed above, the blending shall be done mechanically with calibrated feeders. The feeders shall have an accuracy of ± 2.0 percent of the actual quantity of material delivered. The final blended product shall not contain more than 40 percent by weight RAP.

The coarse aggregate listed above shall meet CA 6 and CA 10 gradations prior to being blended with the processed and uniformly graded RAP. Gradation deleterious count shall not exceed 10% of total RAP and 5% of other by total weight.

**DRAINAGE AND INLET PROTECTION UNDER TRAFFIC (D-1)**

Effective: April 1, 2011

Revised: April 2, 2011

Add the following to Article 603.02 of the Standard Specifications:

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

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

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

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

Revise Article 603.07 of the Standard Specifications to read:

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

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

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

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

Placement shall be according to the manufacturer’s specifications.

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

**FRICION AGGREGATE (D-1)**

Effective: January 1, 2011

Revised: July 24, 2015

Revise Article 1004.01(a)(4) of the Standard Specifications to read:

“(4) Crushed Stone. Crushed stone shall be the angular fragments resulting from crushing undisturbed, consolidated deposits of rock by mechanical means. Crushed stone shall be divided into the following, when specified.

- a. Carbonate Crushed Stone. Carbonate crushed stone shall be either dolomite or limestone. Dolomite shall contain 11.0 percent or more magnesium oxide (MgO). Limestone shall contain less than 11.0 percent magnesium oxide (MgO).

- b. Crystalline Crushed Stone. Crystalline crushed stone shall be either metamorphic or igneous stone, including but is not limited to, quartzite, granite, rhyolite and diabase.”

Revise Article 1004.03(a) of the Standard Specifications to read:

**“1004.03 Coarse Aggregate for Hot-Mix Asphalt (HMA).** The aggregate shall be according to Article 1004.01 and the following.

(a) Description. The coarse aggregate for HMA shall be according to the following table.

Use	Mixture	Aggregates Allowed
Class A	Seal or Cover	<u>Allowed Alone or in Combination</u> <sup>5/</sup> : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete
HMA Low ESAL	Stabilized Subbase or Shoulders	<u>Allowed Alone or in Combination</u> <sup>5/</sup> : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag <sup>1/</sup> Crushed Concrete
HMA High ESAL Low ESAL	Binder IL-19.0 or IL-19.0L  SMA Binder	<u>Allowed Alone or in Combination</u> <sup>5/</sup> : Crushed Gravel Carbonate Crushed Stone <sup>2/</sup> Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Concrete <sup>3/</sup>
HMA High ESAL Low ESAL	C Surface and Leveling Binder IL-9.5 or IL-9.5L  SMA Ndesign 50 Surface	<u>Allowed Alone or in Combination</u> <sup>5/</sup> : Crushed Gravel Carbonate Crushed Stone <sup>2/</sup> Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag <sup>4/</sup> Crushed Concrete <sup>3/</sup>

Use	Mixture	Aggregates Allowed	
HMA High ESAL	D Surface and Leveling Binder IL-9.5  SMA Ndesign 50 Surface	<u>Allowed Alone or in Combination</u> <sup>5/</sup> :	
		Crushed Gravel Carbonate Crushed Stone (other than Limestone) <sup>2/</sup> Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag <sup>4/</sup> Crushed Concrete <sup>3/</sup>	
		<u>Other Combinations Allowed:</u>	
		<i>Up to...</i>	<i>With...</i>
		25% Limestone	Dolomite
50% Limestone	Any Mixture D aggregate other than Dolomite		
75% Limestone	Crushed Slag (ACBF) or Crushed Sandstone		
HMA High ESAL	E Surface IL-9.5  SMA Ndesign 80 Surface	<u>Allowed Alone or in Combination</u> <sup>5/</sup> :	
		Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag  No Limestone.	
		<u>Other Combinations Allowed:</u>	
		<i>Up to...</i>	<i>With...</i>
		50% Dolomite <sup>2/</sup>	Any Mixture E aggregate
75% Dolomite <sup>2/</sup>	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone		
75% Crushed Gravel <sup>2/</sup> or Crushed Concrete <sup>3/</sup>	Crushed Sandstone, Crystalline Crushed Stone, Crushed Slag (ACBF), or Crushed Steel Slag		

Use	Mixture	Aggregates Allowed	
HMA High ESAL	F Surface IL-9.5  SMA Ndesign 80 Surface	<u>Allowed Alone or in Combination</u> <sup>5/</sup> :	
		Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag No Limestone.	
		<u>Other Combinations Allowed:</u>	
		<i>Up to...</i>	<i>With...</i>
		50% Crushed Gravel <sup>2/</sup> , Crushed Concrete <sup>3/</sup> , or Dolomite <sup>2/</sup>	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone

- 1/ Crushed steel slag allowed in shoulder surface only.
- 2/ Carbonate crushed stone and/or crushed gravel shall not be used in SMA Ndesign 80. In SMA Ndesign 50, carbonate crushed stone shall not be blended with any of the other aggregates allowed alone in Ndesign 50 SMA binder or Ndesign 50 SMA surface.
- 3/ Crushed concrete will not be permitted in SMA mixes.
- 4/ Crushed steel slag shall not be used as leveling binder.
- 5/ When combinations of aggregates are used, the blend percent measurements shall be by volume."

**GROUND TIRE RUBBER (GTR) MODIFIED ASPHALT BINDER (D-1)**

Effective: June 26, 2006

Revised: January 1, 2013

Add the following to the end of article 1032.05 of the Standard Specifications:

"(c) Ground Tire Rubber (GTR) Modified Asphalt Binder. A quantity of 10.0 to 14.0 percent GTR (Note 1) shall be blended by dry unit weight with a PG 64-28 to make a GTR 70-28 or a PG 58-28 to make a GTR 64-28. The base PG 64-28 and PG 58-28 asphalt binders shall meet the requirements of Article 1032.05(a). Compatible polymers may be added during production. The GTR modified asphalt binder shall meet the requirements of the following table.

Test	Asphalt Grade GTR 70-28	Asphalt Grade GTR 64-28
Flash Point (C.O.C.), AASHTO T 48, °F (°C), min.	450 (232)	450 (232)
Rotational Viscosity, AASHTO T 316 @ 275 °F (135 °C), Poises, Pa-s, max.	30 (3)	30 (3)
Softening Point, AASHTO T 53, °F (°C), min.	135 (57)	130 (54)

Elastic Recovery, ASTM D 6084, Procedure A (sieve waived) @ 77 °F, (25 °C), aged, ss, 100 mm elongation, 5 cm/min., cut immediately, %, min.	65	65
--	----	----

Note 1. GTR shall be produced from processing automobile and/or light truck tires by the ambient grinding method. GTR shall not exceed 1/16 in. (2 mm) in any dimension and shall contain no free metal particles or other materials. A mineral powder (such as talc) meeting the requirements of AASHTO M 17 may be added, up to a maximum of four percent by weight of GTR to reduce sticking and caking of the GTR particles. When tested in accordance with Illinois modified AASHTO T 27, a 50 g sample of the GTR shall conform to the following gradation requirements:

Sieve Size	Percent Passing
No. 16 (1.18 mm)	100
No. 30 (600 µm)	95 ± 5
No. 50 (300 µm)	> 20

Add the following to the end of Note 1. of article 1030.03 of the Standard Specifications:

“A dedicated storage tank for the Ground Tire Rubber (GTR) modified asphalt binder shall be provided. This tank must be capable of providing continuous mechanical mixing throughout by continuous agitation and recirculation of the asphalt binder to provide a uniform mixture. The tank shall be heated and capable of maintaining the temperature of the asphalt binder at 300 °F to 350 °F (149 °C to 177 °C). The asphalt binder metering systems of dryer drum plants shall be calibrated with the actual GTR modified asphalt binder material with an accuracy of ± 0.40 percent.”

Revise 1030.02(c) of the Standard Specifications to read:

“(c) RAP Materials (Note 3) .....1031”

Add the following note to 1030.02 of the Standard Specifications:

Note 3. When using reclaimed asphalt pavement and/or reclaimed asphalt shingles, the maximum asphalt binder replacement percentage shall be according to the most recent special provision for recycled materials.

**HMA MIXTURE DESIGN REQUIREMENTS (D-1)**

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

**1) Design Composition and Volumetric Requirements**

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)
SMA-9.5, IL-9.5, IL-9.5L	1 1/2 (38)
SMA-12.5	2 (50)
IL-19.0, IL-19.0L	2 1/4 (57)”

Revise the 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.”

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 <sup>1/</sup> CA 16, CA 13 <sup>3/</sup>
HMA Low ESAL	IL-19.0L IL-9.5L Stabilized Subbase or Shoulders	CA 11 <sup>1/</sup> CA 16
SMA <sup>2/</sup>	1/2 in. (12.5mm) Binder & Surface IL 9.5 Surface	CA13 <sup>3/</sup> , CA14 or CA16 CA16, CA 13 <sup>3/</sup>

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

2/ The coarse aggregates used shall be capable of being combined with stone sand, slag sand, or steel slag sand meeting the FA/FM 20 gradation and mineral filler to meet the approved mix design and the mix requirements noted herein.

3/ CA 13 shall be 100 percent passing the 1/2 in. (12.5mm) sieve.

Revise Article 1004.03(e) of the Supplemental Specifications to read:

“(e) Absorption. For SMA the coarse aggregate shall also have water absorption ≤ 2.0 percent.”

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

“High ESAL	IL-19.0 binder; IL-9.5 surface; IL-4.75; SMA-12.5, SMA-9.5
Low ESAL	IL-19.0L binder; IL-9.5L surface; Stabilized Subbase (HMA) <sup>1/</sup> ;

	HMA Shoulders <sup>2/</sup>
--	-----------------------------

1/ Uses 19.0L binder mix.

2/ Uses 19.0L for lower lifts and 9.5L for surface lift.”

Revise Article 1030.02 of the Standard Specifications and Supplemental Specifications to read:

“**1030.02 Materials.** Materials shall be according to the following.

Item .....	Article/Section
(a) Coarse Aggregate .....	1004.03
(b) Fine Aggregate .....	1003.03
(c) RAP Material .....	1031
(d) Mineral Filler .....	1011
(e) Hydrated Lime .....	1012.01
(f) Slaked Quicklime (Note 1)	
(g) Performance Graded Asphalt Binder (Note 2) .....	1032
(h) Fibers (Note 3)	
(i) Warm Mix Asphalt (WMA) Technologies (Note 4)	

Note 1. Slaked quicklime shall be according to ASTM C 5.

Note 2. The asphalt binder shall be an SBS PG 76-28 when the SMA is used on a full-depth asphalt pavement and SBS PG 76-22 when used as an overlay, except where modified herein. The asphalt binder shall be an Elvaloy or SBS PG 76-22 for IL-4.75, except where modified herein. The elastic recovery shall be a minimum of 80.

Note 3. A stabilizing additive such as cellulose or mineral fiber shall be added to the SMA mixture according to Illinois Modified AASHTO M 325. The stabilizing additive shall meet the Fiber Quality Requirements listed in Illinois Modified AASHTO M 325. Prior to approval and use of fibers, the Contractor shall submit a notarized certification by the producer of these materials stating they meet these requirements. Reclaimed Asphalt Shingles (RAS) may be used in Stone Matrix Asphalt (SMA) mixtures designed with an SBA polymer modifier as a fiber additive if the mix design with RAS included meets AASHTO T305 requirements. The RAS shall be from a certified source that produces either Type I or Type 2. Material shall meet requirements noted herein and the actual dosage rate will be determined by the Engineer.

Note 4. Warm mix additives or foaming processes shall be selected from the current Bureau of Materials and Physical Research Approved List, “Warm Mix Asphalt Technologies”.

Revise Article 1030.04(a)(1) of the Standard Specifications and the Supplemental Specifications to read:

“(1) High ESAL Mixtures. The Job Mix Formula (JMF) shall fall within the following limits.

High ESAL, MIXTURE COMPOSITION (% PASSING) <sup>1/</sup>
--

Sieve Size	IL-19.0 mm		SMA <sup>4/</sup> IL-12.5 mm		SMA <sup>4/</sup> IL-9.5 mm		IL-9.5 mm		IL-4.75 mm	
	min	max	min	max	min	max	min	max	min	max
1 1/2 in (37.5 mm)										
1 in. (25 mm)		100								
3/4 in. (19 mm)	90	100		100						
1/2 in. (12.5 mm)	75	89	80	100		100		100		100
3/8 in. (9.5 mm)				65	90	100	90	100		100
#4 (4.75 mm)	40	60	20	30	36	50	34	69	90	100
#8 (2.36 mm)	20	42	16	24 <sup>5/</sup>	16	32 <sup>5/</sup>	34 <sup>6/</sup>	52 <sup>2/</sup>	70	90
#16 (1.18 mm)	15	30					10	32	50	65
#30 (600 μm)			12	16	12	18				
#50 (300 μm)	6	15					4	15	15	30
#100 (150 μm)	4	9					3	10	10	18
#200 (75 μm)	3	6	7.0	9.0 <sup>3/</sup>	7.5	9.5 <sup>3/</sup>	4	6	7	9 <sup>3/</sup>
Ratio Dust/Asphalt Binder		1.0		1.5		1.5		1.0		1.0

- 1/ Based on percent of total aggregate weight.
- 2/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign = 90.
- 3/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.
- 4/ The maximum percent passing the #635 (20 μm) sieve shall be ≤ 3 percent.
- 5/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above the percentage stated on the table.
- 6/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted below 34 percent.

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

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

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

- “(1) High ESAL Mixtures. The target value for the air voids of the HMA shall be 4.0 percent and for IL-4.75 it shall be 3.5 percent at the design number of gyrations. The VMA and VFA of the HMA design shall be based on the nominal maximum size of the aggregate in the mix, and shall conform to the following requirements.

VOLUMETRIC REQUIREMENTS High ESAL				
	Voids in the Mineral Aggregate (VMA), % minimum			Voids Filled with Asphalt Binder (VFA), %
N <sub>design</sub>	IL-19.0	IL-9.5	IL-4.75 <sup>1/</sup>	
50	13.5	15.0	18.5	65 – 78 <sup>2/</sup>
70			65 - 75	
90				

1/ Maximum Draindown for IL-4.75 shall be 0.3 percent

2/ VFA for IL-4.75 shall be 72-85 percent”

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 <sub>DES</sub> =30	4.0	15.0	65-78
IL-19.0L	N <sub>DES</sub> =30	4.0	13.5	N/A”

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

“(3) SMA Mixtures.

Volumetric Requirements SMA <sup>1/</sup>			
N <sub>design</sub>	Design Air Voids Target %	Voids in the Mineral Aggregate (VMA), % min.	Voids Filled with Asphalt (VFA), %
80 <sup>4/</sup>	3.5	17.0 <sup>2/</sup>	75 - 83
		16.0 <sup>3/</sup>	

1/ Maximum draindown shall be 0.3 percent. The draindown shall be determined at the JMF asphalt binder content at the mixing temperature plus 30 °F.

2/ Applies when specific gravity of coarse aggregate is ≥ 2.760.

3/ Applies when specific gravity of coarse aggregate is < 2.760.

4/ Blending of different types of aggregate will not be permitted. For surface course, the coarse aggregate can be crushed steel slag, crystalline crushed stone or crushed sandstone. For binder course, coarse

aggregate shall be crushed stone (dolomite), crushed gravel, crystalline crushed stone, or crushed sandstone.

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

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

Delete last sentence of the second paragraph of Article 1102.01(a) (13) a.

Add to second paragraph in Article 1102.01 (a) (13) a.:

“As an option, collected bag-house dust may be used in lieu of manufactured mineral filler, provided; 1) there is enough available for the production of the SMA mix for the entire project and 2) a mix design was prepared with collected bag-house dust.”

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

"Parameter	Frequency of Tests		Test Method See Manual of Test Procedures for Materials
	High ESAL Mixture	Low ESAL Mixture	
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		Illinois Procedure
Note 3.			
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:		Illinois-Modified AASHTO R 35
	1 per half day of production		
	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)		
Air Voids  Bulk Specific Gravity of Gyratory Sample	Day's production ≥ 1200 tons:		Illinois-Modified AASHTO T 312
	1 per half day of production		

Note 4.	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  $270 \pm 5$  °F ( $132 \pm 3$  °C) for quality control testing. The WMA compaction temperature for quality assurance testing will be  $270 \pm 5$  °F ( $132 \pm 3$  °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		SMA		IL-4.75	
	Individual Test	Moving Avg. of 4	Test	Moving Avg. of 4	Individual Test	Moving Avg. of 4
% Passing: <sup>1/</sup>						
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 % <sup>2/</sup>	-0.5 % <sup>2/</sup>	-0.7 % <sup>2/</sup>	-0.5 % <sup>2/</sup>	-0.7 % <sup>2/</sup>	-0.5 % <sup>2/</sup>

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 % <sup>1/</sup>
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 <sup>2/</sup> - 97.4 %
SMA	Ndesign = 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 <sup>1/3/</sup>	% Passing Sieves: 1/2 in. (12.5 mm) <sup>2/</sup> No. 4 (4.75 mm) No. 8 (2.36 mm) No. 30 (600 µm)
Total Dust Content <sup>1/</sup>	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.

**2) Design Verification and Production**

Description. The following states 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.

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 (IL mod AASHTO T-324) and the Tensile Strength Test (IL mod AASHTO T-283). The Department will perform a verification test on gyratory specimens compacted by the Contractor. If the mix fails the Department’s verification test, the Contractor shall make the necessary changes to the mix and resubmit compacted specimens to the Department for verification. If the mix fails again, the mix design will be rejected.

All new and renewal mix designs will be required to be tested, prior to submittal for Department verification and shall meet the following requirements:

- (1)Hamburg Wheel Test criteria. The maximum allowable rut depth shall be 0.5 in. (12.5 mm). The minimum number of wheel passes at the 0.5 in. (12.5 mm) rut depth criteria shall be based on the high temperature binder grade of the mix as specified in the mix requirements table of the plans.

Illinois Modified AASHTO T 324 Requirements <sup>1/</sup>

Asphalt Binder Grade	# Repetitions	Max Rut Depth (mm)
PG 70 -XX (or higher)	20,000	12.5
PG 64 -XX (or lower)	10,000	12.5

1/ When produced at temperatures of 275 ± 5 °F (135 ± 3 °C) or less, loose Warm Mix Asphalt shall be oven aged at 270 ± 5 °F (132 ± 3 °C) for two hours prior to gyratory compaction of Hamburg Wheel specimens.

Note: For SMA Designs (N-80) the maximum rut depth is 6.0 mm at 20,000 repetitions.

For IL 4.75mm Designs (N-50) the maximum rut depth is 9.0mm at 15,000 repetitions.

(2) Tensile Strength Criteria. The minimum allowable conditioned tensile strength shall be 60 psi (415 kPa) for non-polymer modified performance graded (PG) asphalt binder and 80 psi (550 kPa) for polymer modified PG asphalt binder. The maximum allowable unconditioned tensile strength shall be 200 psi (1380 kPa)."

Production Testing. Revise Article 1030.06(a) of the Standard Specifications to read:

"(a) High ESAL, IL-4.75, WMA, and SMA Mixtures. For each contract, a 300 ton (275 metric tons) test strip, except for SMA mixtures it will be 400 ton (363 metric ton), will be required at the beginning of HMA production for each mixture with a quantity of 3000 tons (2750 metric tons) or more according to the Manual of Test Procedures for Materials "Hot Mix Asphalt Test Strip Procedures".

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.”

Add the following to Article 1030.06 of the Standard Specifications:

“(c) Hamburg Wheel Test. All HMA mixtures shall be sampled within the first 500 tons (450 metric tons) on the first day of production or during start up with a split reserved for the Department. The mix sample shall be tested according to the Illinois Modified AASHTO T 324 and shall meet the requirements specified herein. Mix production shall not exceed 1500 tons (1350 metric tons) or one day’s production, whichever comes first, until the testing is completed and the mixture is found to be in conformance. The requirement to cease mix production may be waived if the plant produced mixture demonstrates conformance prior to start of mix production for a contract.

The Department may conduct additional Hamburg Wheel Tests on production material as determined by the Engineer. If the mixture fails to meet the Hamburg Wheel criteria, no further mixture will be accepted until the Contractor takes such action as is necessary to furnish a mixture meeting the criteria”

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 are being met. No additional mixture shall be produced until the Engineer receives passing Hamburg Wheel tests.

Method of Measurement:

Add the following after the fourth paragraph of Article 406.13 (b):

“The plan quantities of SMA mixtures shall be adjusted using the actual approved binder and surface Mix Design’s  $G_{mb}$ .”

Basis of Payment.

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

“For all 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.

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

**PUBLIC CONVENIENCE AND SAFETY (D-1)**

Effective: May 1, 2012

Revised: July 15, 2012

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

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

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

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

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

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

**RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (D-1)**

Effective: November 1, 2012

Revised: July 24, 2015

Revise Section 1031 of the Standard Specifications to read:

**“SECTION 1031. RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES**

**1031.01 Description.** Reclaimed asphalt pavement and reclaimed asphalt shingles shall be according to the following.

- (a) Reclaimed Asphalt Pavement (RAP). RAP is the material resulting from cold milling or crushing an existing hot-mix asphalt (HMA) pavement. RAP will be considered processed FRAP after completion of both crushing and screening to size. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.

(b) Reclaimed Asphalt Shingles (RAS). Reclaimed asphalt shingles (RAS). RAS is from the processing and grinding of pre-consumer or post-consumer shingles. RAS shall be a clean and uniform material with a maximum of 0.5 percent unacceptable material, as defined in Bureau of Materials and Physical Research Policy Memorandum "Reclaimed Asphalt Shingle (RAS) Sources", by weight of RAS. All RAS used shall come from a Bureau of Materials and Physical Research approved processing facility where it shall be ground and processed to 100 percent passing the 3/8 in. (9.5 mm) sieve and 90 percent passing the #4 (4.75 mm) sieve . RAS shall meet the testing requirements specified herein. In addition, RAS shall meet the following Type 1 or Type 2 requirements.

(1) Type 1. Type 1 RAS shall be processed, pre-consumer asphalt shingles salvaged from the manufacture of residential asphalt roofing shingles.

(2) Type 2. Type 2 RAS shall be processed post-consumer shingles only, salvaged from residential, or four unit or less dwellings not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP).

**1031.02 Stockpiles.** RAP and RAS stockpiles shall be according to the following.

(a) RAP Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. Additional processed RAP (FRAP) shall be stockpiled in a separate working pile, as designated in the QC Plan, and only added to the sealed stockpile when test results for the working pile are complete and are found to meet tolerances specified herein for the original sealed FRAP stockpile. Stockpiles shall be sufficiently separated to prevent intermingling at the base. All stockpiles (including unprocessed RAP and FRAP) shall be identified by signs indicating the type as listed below (i.e. "Non- Quality, FRAP -#4 or Type 2 RAS", etc...).

(1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, Superpave HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in FRAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. All FRAP shall be processed prior to testing and sized into fractions with the separation occurring on or between the #4 (4.75 mm) and 1/2 in. (12.5 mm) sieves. Agglomerations shall be minimized such that 100 percent of the RAP in the coarse fraction shall pass the maximum sieve size specified for the mix the FRAP will be used in.

(2) Restricted FRAP (B quality) stockpiles shall consist of RAP from Class I, Superpave (High ESAL), or HMA (High ESAL). If approved by the Engineer, the aggregate from a maximum 3.0 inch single combined pass of surface/binder milling will be classified as B quality. All millings from this application will be processed into FRAP as described previously.

(3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, Superpave HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate RAP shall be processed (FRAP) prior to testing. Conglomerate RAP

stockpiles shall not contain steel slag or other expansive material as determined by the Department.

(4) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from HMA shoulders, bituminous stabilized subbases or Superpave (Low ESAL)/HMA (Low ESAL) IL-19.0L binder mixture. The coarse aggregate in this RAP may be crushed or round but shall be at least D quality. This RAP may have an inconsistent gradation and/or asphalt binder content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.

(5) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

RAP or FRAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, joint sealants, plant cleanout etc., will be unacceptable unless the contaminants are removed to the satisfaction of the Engineer. Sheet asphalt shall be stockpiled separately.

(b) RAS Stockpiles. Type 1 and Type 2 RAS shall be stockpiled separately and shall be sufficiently separated to prevent intermingling at the base. Each stockpile shall be signed indicating what type of RAS is present.

However, a RAS source may submit a written request to the Department for approval to blend mechanically a specified ratio of type 1 RAS with type 2 RAS. The source will not be permitted to change the ratio of the blend without the Department prior written approval. The Engineer's written approval will be required, to mechanically blend RAS with any fine aggregate produced under the AGCS, up to an equal weight of RAS, to improve workability. The fine aggregate shall be "B Quality" or better from an approved Aggregate Gradation Control System source. The fine aggregate shall be one that is approved for use in the HMA mixture and accounted for in the mix design and during HMA production.

Records identifying the shingle processing facility supplying the RAS, RAS type and lot number shall be maintained by project contract number and kept for a minimum of three years.

**1031.03 Testing.** FRAP and RAS testing shall be according to the following.

(a) FRAP Testing. When used in HMA, the FRAP shall be sampled and tested either during processing or after stockpiling. It shall also be sampled during HMA production.

(1) During Stockpiling. For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).

(2) Incoming Material. For testing as incoming material, washed extraction samples shall be run at a minimum frequency of one sample per 2000 tons (1800 metric tons) or once per week, whichever comes first.

- (3) After Stockpiling. For testing after stockpiling, the Contractor shall submit a plan for approval to the District proposing a satisfactory method of sampling and testing the RAP/FRAP pile either in-situ or by restockpiling. The sampling plan shall meet the minimum frequency required above and detail the procedure used to obtain representative samples throughout the pile for testing.

Before extraction, each field sample of FRAP, shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedure. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

- (b) RAS Testing. RAS shall be sampled and tested during stockpiling according to Bureau of Materials and Physical Research Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Sources". The Contractor shall also sample as incoming material at the HMA plant.

- (1) During Stockpiling. Washed extraction and testing for unacceptable materials shall be run at the minimum frequency of one sample per 200 tons (180 metric tons) for the first 1000 tons (900 metric tons) and one sample per 1000 tons (900 metric tons) thereafter. A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). Once a  $\leq 1000$  ton (900 metric ton), five-sample/test stockpile has been established it shall be sealed. Additional incoming RAS shall be in a separate working pile as designated in the Quality Control plan and only added to the sealed stockpile when the test results of the working pile are complete and are found to meet the tolerances specified herein for the original sealed RAS stockpile.

- (2) Incoming Material. For testing as incoming material at the HMA plant, washed extraction shall be run at the minimum frequency of one sample per 250 tons (227 metric tons). A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). The incoming material test results shall meet the tolerances specified herein.

The Contractor shall obtain and make available all test results from start of the initial stockpile sampled and tested at the shingle processing facility in accordance with the facility's QC Plan.

Before extraction, each field sample shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedures. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

**1031.04 Evaluation of Tests.** Evaluation of tests results shall be according to the following.

- (a) Evaluation of FRAP Test Results. All test results shall be compiled to include asphalt binder content, gradation and, when applicable (for slag),  $G_{mm}$ . A five test average of results from the original pile will be used in the mix designs. Individual extraction test results run thereafter, shall be compared to the average used for the mix design, and will be accepted if within the tolerances listed below.

Parameter	FRAP
No. 4 (4.75 mm)	± 6 %
No. 8 (2.36 mm)	± 5 %
No. 30 (600 µm)	± 5 %
No. 200 (75 µm)	± 2.0 %
Asphalt Binder	± 0.3 %
G <sub>mm</sub>	± 0.03 <sup>1/</sup>

1/ For stockpile with slag or steel slag present as determined in the current Manual of Test Procedures Appendix B 21, "Determination of Reclaimed Asphalt Pavement Aggregate Bulk Specific Gravity".

If any individual sieve and/or asphalt binder content tests are out of the above tolerances when compared to the average used for the mix design, the FRAP stockpile shall not be used in Hot-Mix Asphalt unless the FRAP representing those tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

The Contractor shall maintain a representative moving average of five tests to be used for Hot-Mix Asphalt production.

With the approval of the Engineer, the ignition oven may be substituted for extractions according to the Illinois Test Procedure, "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)" or Illinois Modified AASHTO T-164-11, Test Method A.

- (b) Evaluation of RAS Test Results. All of the test results, with the exception of percent unacceptable materials, shall be compiled and averaged for asphalt binder content and gradation. A five test average of results from the original pile will be used in the mix designs. Individual test results run thereafter, when compared to the average used for the mix design, will be accepted if within the tolerances listed below.

Parameter	RAS
No. 8 (2.36 mm)	± 5 %
No. 16 (1.18 mm)	± 5 %
No. 30 (600 µm)	± 4 %
No. 200 (75 µm)	± 2.5 %
Asphalt Binder Content	± 2.0 %

If any individual sieve and/or asphalt binder content tests are out of the above tolerances when compared to the average used for the mix design, the RAS shall not be used in Hot-Mix Asphalt unless the RAS representing those tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

- (c) Quality Assurance by the Engineer. The Engineer may witness the sampling and splitting conduct assurance tests on split samples taken by the Contractor for quality control testing a minimum of once a month.

The overall testing frequency will be performed over the entire range of Contractor samples for asphalt binder content and gradation. The Engineer may select any or all

split samples for assurance testing. The test results will be made available to the Contractor as soon as they become available.

The Engineer will notify the Contractor of observed deficiencies.

Differences between the Contractor's and the Engineer's split sample test results will be considered acceptable if within the following limits.

Test Parameter	Acceptable Limits of Precision	
	FRAP	RAS
% Passing: <sup>1/</sup>		
1/2 in.	5.0%	
No. 4	5.0%	
No. 8	3.0%	4.0%
No. 30	2.0%	3.0%
No. 200	2.2%	2.5%
Asphalt Binder Content	0.3%	1.0%
G <sub>mm</sub>	0.030	

1/ Based on washed extraction.

In the event comparisons are outside the above acceptable limits of precision, the Engineer will immediately investigate.

- (d) Acceptance by the Engineer. Acceptable of the material will be based on the validation of the Contractor's quality control by the assurance process.

**1031.05 Quality Designation of Aggregate in RAP and FRAP.**

(a) RAP. The aggregate quality of the RAP for 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. Fractionated RAP stockpiles containing plus #4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5,000 tons (4,500 metric tons). The Contractor shall obtain a representative sample witnessed by the Engineer. The sample shall be a minimum of 50 lb (25 kg). The sample shall be extracted according to Illinois Modified AASHTO T 164 by a consultant 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. The fine aggregate portion of the fractionated RAP shall not be used in any HMA mixtures that require a minimum of "B" quality aggregate or better, until the coarse aggregate fraction has been determined to be acceptable thru a MicroDeval Testing.

**1031.06 Use of FRAP and/or RAS in HMA.** The use of FRAP and/or RAS shall be a Contractor's option when constructing HMA in all contracts.

(a) FRAP. The use of FRAP in HMA shall be as follows.

- (1) Coarse Aggregate Size (after extraction). The coarse aggregate in all FRAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.
- (2) Steel Slag Stockpiles. FRAP stockpiles containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in HMA (High ESAL and Low ESAL) mixtures regardless of lift or mix type.
- (3) Use in HMA Surface Mixtures (High and Low ESAL). FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall have coarse aggregate that is Class B quality or better. FRAP shall be considered equivalent to limestone for frictional considerations unless produced/screened to minus 3/8 inch.
- (4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP in which the coarse aggregate is Class C quality or better.
- (5) Use in Shoulders and Subbase. FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, Restricted FRAP, conglomerate, or conglomerate DQ.

(b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.

(c) FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with FRAP in HMA mixtures up to a maximum of 5.0% by weight of the total mix.

When FRAP is used alone or FRAP is used in conjunction with RAS, the percent of virgin asphalt binder replacement (ABR) shall not exceed the amounts indicated in the table below for a given N Design.

Max Asphalt Binder Replacement for FRAP with RAS Combination

HMA Mixtures <sup>1/ 2/ 4/</sup>	Maximum % ABR		
	Binder/Leveling Binder	Surface	Polymer Modified <sup>3/</sup>
Ndesign			
30L	50	40	30
50	40	35	30
70	40	30	30
90	40	30	30
4.75 mm N-50			40
SMA N-80			30

- 1/ For HMA "All Other" (shoulder and stabilized subbase) N-30, the percent asphalt binder replacement shall not exceed 50% of the total asphalt binder in the mixture.
- 2/ When the binder replacement exceeds 15 percent for all mixes, except for SMA and IL-4.75, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent binder replacement using a virgin asphalt binder grade of PG64-22 will be reduced to a PG58-28). When constructing full depth HMA and the ABR is less than 15 percent, the required virgin asphalt binder grade shall be PG64-28.
- 3/ When the ABR for SMA or IL-4.75 is 15 percent or less, the required virgin asphalt binder shall be SBS PG76-22 and the elastic recovery shall be a minimum of 80. When the ABR for SMA or IL-4.75 exceeds 15%, the virgin asphalt binder grade shall be SBS PG70-28 and the elastic recovery shall be a minimum of 80.
- 4/ When FRAP or RAS is used alone, the maximum percent asphalt binder replacement designated on the table shall be reduced by 10 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) FRAP and/or RAS. FRAP and /or RAS mix designs shall be submitted for verification. If additional FRAP or RAS stockpiles are tested and found to be within tolerance, as defined under "Evaluation of Tests" herein, and meet all requirements herein, the additional FRAP or RAS stockpiles may be used in the original design at the percent previously verified.
- (b) RAS. Type 1 and Type 2 RAS are not interchangeable in a mix design. A RAS stone bulk specific gravity (Gsb) of 2.300 shall be used for mix design purposes.

**1031.08 HMA Production.** HMA production utilizing FRAP and/or RAS shall be as follows.

To remove or reduce agglomerated material, a scalping screen, gator, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAS and FRAP feed system to remove or reduce oversized material. If material passing the sizing device adversely affects the mix production or quality of the mix, the sizing device shall be set at a size specified by the Engineer.

If during mix production, corrective actions fail to maintain FRAP, RAS or QC/QA test results within control tolerances or the requirements listed herein the Contractor shall cease production of the mixture containing FRAP or RAS and conduct an investigation that may require a new mix design.

(a) RAS. RAS shall be incorporated into the HMA mixture either by a separate weight depletion system or by using the RAP weigh belt. Either feed system shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes. The portion of RAS shall be controlled accurately to within  $\pm 0.5$  percent of the amount of RAS utilized. When using the weight depletion system, flow indicators or sensing devices shall be provided and interlocked with the plant controls such that the mixture production is halted when RAS flow is interrupted.

(b) HMA Plant Requirements. HMA plants utilizing FRAP and/or RAS shall be capable of automatically recording and printing the following information.

(1) Dryer Drum Plants.

- a. Date, month, year, and time to the nearest minute for each print.
- b. HMA mix number assigned by the Department.
- c. Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- d. Accumulated dry weight of RAS and FRAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- e. Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.
- f. Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
- g. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.
- h. Aggregate RAS and FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAS and FRAP are printed in wet condition.)
- i. When producing mixtures with FRAP and/or RAS, a positive dust control system shall be utilized.

- j. Accumulated mixture tonnage.
  - k. Dust Removed (accumulated to the nearest 0.1 ton)
- (2) Batch Plants.
- a. Date, month, year, and time to the nearest minute for each print.
  - b. HMA mix number assigned by the Department.
  - c. Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).
  - d. Mineral filler weight to the nearest pound (kilogram).
  - f. RAS and FRAP weight to the nearest pound (kilogram).
  - g. Virgin asphalt binder weight to the nearest pound (kilogram).
  - h. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.

The printouts shall be maintained in a file at the plant for a minimum of one year or as directed by the Engineer and shall be made available upon request. The printing system will be inspected by the Engineer prior to production and verified at the beginning of each construction season thereafter.

**1031.09 RAP in Aggregate Surface Course and Aggregate Shoulders.** The use of RAP or FRAP in aggregate surface course and aggregate shoulders shall be as follows.

- (a) Stockpiles and Testing. RAP stockpiles may be any of those listed in Article 1031.02, except "Non-Quality" and "FRAP". The testing requirements of Article 1031.03 shall not apply. RAP used 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. The RAP material shall meet the gradation requirements for CA 6 in accordance with Art.1004.01 (c), except the requirements for the minus No. 200 (75µm) sieve will not apply. The sample for the RAP material shall be air dried to constant weight prior to being tested for gradation."

#### **TEMPORARY INFORMATION SIGNING (D-1)**

Effective: November 13, 1996

Revised: January 2, 2007

##### Description.

This work shall consist of furnishing, installing, maintaining, relocating for various states of construction and eventually removing temporary informational signs. Included in this item may be ground mount signs, skid mount signs, truss mount signs, bridge mount signs, and overlay sign panels which cover portions of existing signs.

##### Materials.

Materials shall be according to the following Articles of Section 1000 - Materials:

	<u>Item</u>	<u>Article/Section</u>
a.)	Sign Base (Notes 1 & 2)	1090
b.)	Sign Face ( Note 3)	1091
c.)	Sign Legends	1092
d.)	Sign Supports	1093
e.)	Overlay Panels (Note 4)	1090.02

Note 1. The Contractor may use 5/8 inch (16 mm) instead of 3/4 inch (19 mm) thick plywood.

Note 2. Type A sheeting can be used on the plywood base.

Note 3. All sign faces shall be Type A except all orange signs shall meet the requirements of Article 1106.01.

Note 4. The overlay panels shall be 0.08 inch (2 mm) thick.

### **GENERAL CONSTRUCTION REQUIREMENTS**

#### Installation.

The sign sizes and legend sizes shall be verified by the Contractor prior to fabrication.

Signs which are placed along the roadway and/or within the construction zone shall be installed according to the requirements of Article 701.14 and Article 720.04. The signs shall be 7 ft (2.1 m) above the near edge of the pavement and shall be a minimum of 2 ft (600 mm) beyond the edge of the paved shoulder. A minimum of two (2) posts shall be used.

The attachment of temporary signs to existing sign structures or sign panels shall be approved by the Engineer. Any damage to the existing signs due to the Contractor's operations shall be repaired or signs replaced, as determined by the Engineer, at the Contractor's expense.

Signs which are placed on overhead bridge structures shall be fastened to the handrail with stainless steel bands. These signs shall rest on the concrete parapet where possible. The Contractor shall furnish mounting details for approval by the Engineer.

#### Method Of Measurement.

This work shall be measured for payment in square feet (square meters) edge to edge (horizontally and vertically).

All hardware, posts or skids, supports, bases for ground mounted signs, connections, which are required for mounting these signs will be included as part of this pay item.

#### Basis Of Payment.

This work shall be paid for at the contract unit price per square foot (square meter) for TEMPORARY INFORMATION SIGNING.

### **REMOVE AND REINSTALL BRICK PAVERS**

This work shall consist of the removal, storage and replacement of existing brick paver driveways.

Materials shall be according to the following Articles of Division 1000 – Materials of the Standard Specifications.

Item	Article/Section
(a) Fine Aggregate	1003.01, 1003.02 (d)

(b) Coarse Aggregate	1004.04
(c) Paving Brick	1041.03

If additional bricks are required, they shall match the existing as well as possible

Refer to Check Sheet LRS14 of the Supplemental Specifications and Recurring Special Provisions, January 1, 2012

Refer to Check Sheet LRS14 of the Supplemental Specifications and Recurring Special Provisions, January 1, 2012 and the following:

A 6 inch Aggregate Base Course shall be placed and compacted on the prepared Subgrade. Cost of Aggregate Base Course will be included in the cost of this item. Any damaged brick pavers shall be replaced in kind by the contractor at no additional cost.

The work will be measured in place and the area computed in square feet.

The work will be paid for at the contract unit price per square foot for REMOVE AND REINSTALL BRICK PAVERS.

**BDE SPECIAL PROVISIONS**  
For the January 15 and March 4, 2016 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.

<u>File Name</u>	<u>#</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
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, 2016
80192	4	Automated Flagger Assistance Device	Jan. 1, 2008	
80173	5	X Bituminous Materials Cost Adjustments	Nov. 2, 2006	July 1, 2015
80241	6	Bridge Demolition Debris	July 1, 2009	
50261	7	Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50481	8	Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50491	9	Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50531	10	Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
80360	11	X Coarse Aggregate Quality	July 1, 2015	
80310	12	Coated Galvanized Steel Conduit	Jan. 1, 2013	Jan. 1, 2015
80341	13	Coilable Nonmetallic Conduit	Aug. 1, 2014	Jan. 1, 2015
80198	14	Completion Date (via calendar days)	April 1, 2008	
80199	15	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80293	16	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	April 1, 2015
80294	17	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	18	Concrete End Sections for Pipe Culverts	Jan. 1, 2013	
80334	19	X Concrete Gutter, Curb, Median, and Paved Ditch	April 1, 2014	Aug. 1, 2014
80277	20	Concrete Mix Design – Department Provided	Jan. 1, 2012	Jan. 1, 2014
80261	21	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
80335	22	Contract Claims	April 1, 2014	
80029	23	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Jan. 2, 2015
80358	24	X Equal Employment Opportunity	April 1, 2015	
80265	25	Friction Aggregate	Jan. 1, 2011	Nov. 1, 2014
80229	26	Fuel Cost Adjustment	April 1, 2009	July 1, 2015
80329	27	Glare Screen	Jan. 1, 2014	
80304	28	Grooving for Recessed Pavement Markings	Nov. 1, 2012	Aug. 1, 2014
80246	29	X Hot-Mix Asphalt – Density Testing of Longitudinal Joints	Jan. 1, 2010	April 1, 2012
80322	30	Hot-Mix Asphalt – Mixture Design Composition and Volumetric Requirements	Nov. 1, 2013	Nov. 1, 2014
80323	31	Hot-Mix Asphalt – Mixture Design Verification and Production	Nov. 1, 2013	Nov. 1, 2014
80347	32	Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Nov. 1, 2014	July 1, 2015
80348	33	X Hot-Mix Asphalt – Prime Coat	Nov. 1, 2014	
80315	34	Insertion Lining of Culverts	Jan. 1, 2013	Nov. 1, 2013
80351	35	Light Tower	Jan. 1, 2015	
80336	36	Longitudinal Joint and Crack Patching	April 1, 2014	
80324	37	LRFD Pipe Culvert Burial Tables	Nov. 1, 2013	April 1, 2015
80325	38	LRFD Storm Sewer Burial Tables	Nov. 1, 2013	April 1, 2015
80045	39	Material Transfer Device	June 15, 1999	Aug. 1, 2014
80342	40	Mechanical Side Tie Bar Inserter	Aug. 1, 2014	Jan. 1, 2015
80165	41	Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
80361	42	Overhead Sign Structures Certification of Metal Fabricator	Nov. 1, 2015	
80337	43	Paved Shoulder Removal	April 1, 2014	

<u>File Name</u>	<u>#</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
80349	44	Pavement Marking Blackout Tape	Nov. 1, 2014	
80298	45	Pavement Marking Tape Type IV	April 1, 2012	
80254	46	Pavement Patching	Jan. 1, 2010	
80352	47	Pavement Striping - Symbols	Jan. 1, 2015	
80359	48	Portland Cement Concrete Bridge Deck Curing	April 1, 2015	
80353	49	Portland Cement Concrete Inlay or Overlay	Jan. 1, 2015	April 1, 2015
80338	50	Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	April 1, 2014	
80343	51	Precast Concrete Handhole	Aug. 1, 2014	
80300	52	Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	
80328	53	Progress Payments	Nov. 2, 2013	
34261	54	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157	55	Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
80306	56	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	April 1, 2014
80350	57	Retroreflective Sheeting for Highway Signs	Nov. 1, 2014	
80327	58	Reinforcement Bars	Nov. 1, 2013	
80344	59	Rigid Metal Conduit	Aug. 1, 2014	
80354	60	X Sidewalk, Corner, or Crosswalk Closure	Jan. 1, 2015	April 1, 2015
80340	61	Speed Display Trailer	April 2, 2014	
80127	62	Steel Cost Adjustment	April 2, 2004	July 1, 2015
* 80362	63	Steel Slag in Trench Backfill	Jan. 1, 2016	
80317	64	Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	
80355	65	Temporary Concrete Barrier	Jan. 1, 2015	July 1, 2015
80301	66	X Tracking the Use of Pesticides	Aug. 1, 2012	
80356	67	Traffic Barrier Terminals Type 6 or 6B	Jan. 1, 2015	
20338	68	Training Special Provisions	Oct. 15, 1975	
80318	69	Traversable Pipe Grate	Jan. 1, 2013	April 1, 2014
80345	70	Underpass Luminaire	Aug. 1, 2014	April 1, 2015
80357	71	Urban Half Road Closure with Mountable Median	Jan. 1, 2015	July 1, 2015
80346	72	Waterway Obstruction Warning Luminaire	Aug. 1, 2014	April 1, 2015
80288	73	X Warm Mix Asphalt	Jan. 1, 2012	Nov. 1, 2014
80302	74	Weekly DBE Trucking Reports	June 2, 2012	April 2, 2015
80289	75	Wet Reflective Thermoplastic Pavement Marking	Jan. 1, 2012	
80071	76	Working Days	Jan. 1, 2002	

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

<u>File Name</u>	<u>Special Provision Title</u>	<u>New Location</u>	<u>Effective</u>	<u>Revised</u>
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	

<u>File Name</u>	<u>Special Provision Title</u>	<u>New Location</u>	<u>Effective</u>	<u>Revised</u>
80333	Traffic Control Setup and Removal Freeway/Expressway	Articles 701.18(l) and 701.19(a)	Jan. 1, 2014	

The following special provisions require additional information from the designer. The additional information needs to be included in a separate document attached to this check sheet. The Project Development and Implementation section will then include the information in the applicable special provision. The Special Provisions are:

- Bridge Demolition Debris
- Building Removal-Case I
- Building Removal-Case II
- Building Removal-Case III
- Building Removal-Case IV
- Completion Date
- Completion Date Plus Working Days
- DBE Participation
- Material Transfer Device
- Railroad Protective Liability Insurance
- Training Special Provisions
- Working Days

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

Effective: November 2, 2006

Revised: July 1, 2015

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 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.

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 that are part of the original proposed construction, or added as extra work and paid for by agreed unit prices. The adjustments shall not apply to bituminous prime coats, tack coats, crack filling/sealing, joint filling/sealing, or extra work paid for at a lump sum price or by force account.

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<sub>P</sub> = Bituminous Price Index, as published by the Department for the month the work is performed, \$/ton (\$/metric ton).

BPI<sub>L</sub> = Bituminous Price Index, as published by the Department for the month prior to the letting for work paid for at the contract price; or for the month the agreed unit price letter is submitted by the Contractor for extra work paid for by agreed unit price, \$/ton (\$/metric ton).

%AC<sub>V</sub> = Percent of virgin Asphalt Cement in the Quantity being adjusted. For HMA mixtures, the % AC<sub>V</sub> 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<sub>V</sub> and undiluted emulsified asphalt will be considered to be 65% AC<sub>V</sub>.

Q = Authorized construction Quantity, tons (metric tons) (see below).

For HMA mixtures measured in square yards:  $Q, \text{ tons} = A \times D \times (G_{mb} \times 46.8) / 2000$ . For HMA mixtures measured in square meters:  $Q, \text{ metric tons} = A \times D \times (G_{mb} \times 1) / 1000$ . 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<sub>V</sub>.

For bituminous materials measured in gallons:  $Q, \text{ tons} = V \times 8.33 \text{ lb/gal} \times SG / 2000$

For bituminous materials measured in liters:  $Q, \text{ metric tons} = V \times 1.0 \text{ kg/L} \times SG / 1000$

Where: A = Area of the HMA mixture, sq yd (sq m).

- D = Depth of the HMA mixture, in. (mm).  
G<sub>mb</sub> = 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<sub>L</sub> and BPI<sub>P</sub> in excess of five percent, as calculated by:

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

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

**COARSE AGGREGATE QUALITY (BDE)**

Effective: July 1, 2015

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

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

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

1/ Does not apply to crushed concrete.

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

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

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

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

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

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

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

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

10/ Test shall be run according to ITP 203.

11/ Does not apply to crushed slag.

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

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

**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<sub>1</sub> or T<sub>2</sub>), according to ASTM C 920.”

## **EQUAL EMPLOYMENT OPPORTUNITY (BDE)**

Effective: April 1, 2015

FEDERAL AID CONTRACTS. Revise the following section of Check Sheet #1 of the Recurring Special Provisions to read:

### **"EQUAL EMPLOYMENT OPPORTUNITY**

In the event of the Contractor's noncompliance with the provisions of this Equal Employment Opportunity Clause, the Illinois Human Rights Act, or the Illinois Department of Human Rights Rules and Regulations, the Contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political sub-divisions or municipal corporations, and the contract may be cancelled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation.

During the performance of this Contract, the Contractor agrees as follows:

- (1) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, marital status, order of protection status, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status, or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- (2) That, if it hires additional employees in order to perform this contract or any portion hereof, it will determine the availability (according to the Illinois Department of Human Rights Rules and Regulations) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- (3) That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, sexual orientation, marital status, order of protection status, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status or an unfavorable discharge from military service.
- (4) That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Human Rights Act and the Illinois Department of Human Rights Rules and Regulations. If any labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with such Act and Rules and Regulations, the

Contractor will promptly so notify the Illinois Department of Human Rights and IDOT and will recruit employees from other sources when necessary to fulfill its obligations thereunder.

- (5) That it will submit reports as required by the Illinois Department of Human Rights Rules and Regulations, furnish all relevant information as may from time to time be requested by the Illinois Department of Human Rights or IDOT, and in all respects comply with the Illinois Human Rights Act and the Illinois Department of Human Rights Rules and Regulations.
- (6) That it will permit access to all relevant books, records, accounts, and work sites by personnel of IDOT and the Illinois Department of Human Rights for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Illinois Department of Human Rights Rules and Regulations.
- (7) That it will include verbatim or by reference the provisions of this clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that the provisions will be binding upon the subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by subcontractors; and further it will promptly notify IDOT and the Illinois Department of Human Rights in the event any subcontractor fails or refuses to comply with these provisions. In addition, the Contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations."

STATE CONTRACTS. Revise Section II of Check Sheet #5 of the Recurring Special Provisions to read:

#### "II. EQUAL EMPLOYMENT OPPORTUNITY

In the event of the Contractor's noncompliance with the provisions of this Equal Employment Opportunity Clause, the Illinois Human Rights Act or the Illinois Department of Human Rights Rules and Regulations, the Contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political sub-divisions or municipal corporations, and the contract may be cancelled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation.

During the performance of this Contract, the Contractor agrees as follows:

1. That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, marital status, order of protection status, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status, or an unfavorable discharge from military service; and further

that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.

2. That, if it hires additional employees in order to perform this contract or any portion hereof, it will determine the availability (according to the Illinois Department of Human Rights Rules and Regulations) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
3. That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, sexual orientation, marital status, order of protection status, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status, or an unfavorable discharge from military service.
4. That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Human Rights Act and the Illinois Department of Human Rights Rules and Regulations. If any labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with such Act and Rules and Regulations, the Contractor will promptly so notify the Illinois Department of Human Rights and IDOT and will recruit employees from other sources when necessary to fulfill its obligations thereunder.
5. That it will submit reports as required by the Illinois Department of Human Rights Rules and Regulations, furnish all relevant information as may from time to time be requested by the Illinois Department of Human Rights or IDOT, and in all respects comply with the Illinois Human Rights Act and the Illinois Department of Human Rights Rules and Regulations.
6. That it will permit access to all relevant books, records, accounts and work sites by personnel of IDOT and the Illinois Department of Human Rights for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Illinois Department of Human Rights Rules and Regulations.
7. That it will include verbatim or by reference the provisions of this clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that the provisions will be binding upon the subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by subcontractors; and further it will promptly notify IDOT and the Illinois Department of Human Rights in the event any subcontractor fails or refuses to comply with these provisions. In addition, the Contractor will not utilize any subcontractor declared by the Illinois Human Rights

Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.”

80358

**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 – 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  $\pm$  0.01 (1.21 kg/sq m  $\pm$ 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.”

80348

## **SIDEWALK, CORNER, OR CROSSWALK CLOSURE (BDE)**

Effective: January 1, 2015

Revised: April 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

## **TRACKING THE USE OF PESTICIDES (BDE)**

Effective: August 1, 2012

Add the following paragraph after the first paragraph of Article 107.23 of the Standard Specifications:

“Within 48 hours of the application of pesticides, including but not limited to herbicides, insecticides, algaecides, and fungicides, the Contractor shall complete and return to the Engineer, Operations form “OPER 2720”.”

80301

## **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  $\pm 2$  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.



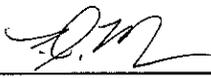
Route Celebrity Circle  
Section 15-00065-00-PV  
County DuPage/Cook

Marked Rte. \_\_\_\_\_  
Project No. \_\_\_\_\_  
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.

T.J. Moore  
Print Name  
Director of Public Works  
Title  
Village of Hanover Park  
Agency

 Signature  
7/8/15 Date

**I. Site Description:**

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

The proposed reconstruction and resurfacing of Celebrity Circle is located in the Village of Hanover Park, Illinois, DuPage/Cook County. The project is a residential road that services a neighborhood. The project is located south of Greenbrook Blvd and Celebrity Circle is accessed via Hardy Drive and/or Star Drive.

Section 7, Township 40N, Range 10E, 3<sup>rd</sup> PM (41.58'21.78"N / 88.08'32.87"W)

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

The proposed improvement is the reconstruction and resurfacing of Celebrity Circle. The project consists of pavement removal, surface removal, earth excavation, curb removal, potential undercut areas, inlet and storm sewer removal. The project also consists of the installation of proposed storm sewer and inlets, aggregate subgrade improvement, hma binder and hma surface course, curb and gutter construction, erosion control blanket, sodding, and all other incidental and collateral work necessary.

C. Provide the estimated duration of this project:

April 4, 2016 to July 1, 2016

D. The total area of the construction site is estimated to be 2,649 acres.

The total area of the site estimated to be disturbed by excavation, grading or other activities is 1,733 acres.

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

0.87

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

Elliott silt loam (146A): Somewhat poorly drained soils with slopes ranging from 0 to 2 percent. K Factor (whole soil) = 0.32

Varna silt loam (223B): Moderately well drained soils with slopes ranging from 2 to 4 percent. K Factor (whole soil) = 0.37

Ashkum silty clay loam (232A): Poorly drained soils with slopes ranging from 0 to 2 percent. K Factor (whole soil) = 0.20

Markham silt loam (531C2): Moderately well drained soils with slopes ranging from 4 to 6 percent. K Factor (whole soil) = 0.37

Landfills (830)

Sawmill silty clay loam (3107A): Poorly drained soils with slopes ranging from 0 to 2 percent. K Factor (whole soil) = 0.24

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

Wetlands are not located within project limits.

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

The potentially erosive areas in the project are the parkways at locations behind proposed curb and gutter.

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 project will not be completed under staged construction, but rather under lane closures.

Soil disturbing activities will include removal and replacement of curb/gutter, driveways, sidewalks, and trench excavation for drainage improvements.

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:

The Village of Hanover Park owns the drainage system.

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

Illinois Department of Transportation, DuPage County, Cook County, The Village of Hanover Park

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:

The stormwater flows into the storm sewer system, which ultimately flows into the West Branch DuPage River.

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.

Areas that are outside the project limits are to be protected and remain undisturbed. There are no streams, rivers, steep slopes, nature preserves, etc. within the project limits.

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):

N/A

- a. The name(s) of the listed water body, and identification of all pollutants causing impairment:

N/A

- 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:

N/A

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

N/A

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

N/A

2. TMDL (fill out this section if checked above)

- a. The name(s) of the listed water body:

N/A

- 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:

N/A

- 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:

N/A

P. The following pollutants of concern will be associated with this construction project:

- |   |  |
|---|--|
| <input type="checkbox"/> Soil Sediment                        | <input checked="" type="checkbox"/> Petroleum (gas, diesel, oil, kerosene, hydraulic oil / fluids) |
| <input checked="" type="checkbox"/> Concrete                  | <input type="checkbox"/> Antifreeze / Coolants   |
| <input type="checkbox"/> Concrete Truck Waste                 | <input checked="" type="checkbox"/> Waste water from cleaning construction equipment               |
| <input checked="" type="checkbox"/> Concrete Curing Compounds | <input type="checkbox"/> Other (specify)   |
| <input checked="" type="checkbox"/> Solid Waste Debris        | <input type="checkbox"/> Other (specify)   |
| <input type="checkbox"/> Paints                               | <input type="checkbox"/> Other (specify)   |
| <input checked="" type="checkbox"/> Solvents                  | <input type="checkbox"/> Other (specify)   |
| <input checked="" type="checkbox"/> Fertilizers / Pesticides  | <input type="checkbox"/> 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:

- |  |  |
|--|--|
| <input type="checkbox"/> Preservation of Mature Vegetation | <input checked="" type="checkbox"/> Erosion Control Blanket / Mulching |
| <input type="checkbox"/> Vegetated Buffer Strips           | <input checked="" type="checkbox"/> Sodding                            |
| <input type="checkbox"/> Protection of Trees               | <input checked="" type="checkbox"/> Geotextiles                        |
| <input type="checkbox"/> Temporary Erosion Control Seeding | <input type="checkbox"/> Other (specify)                               |
| <input type="checkbox"/> Temporary Turf (Seeding, Class 7) | <input type="checkbox"/> Other (specify)                               |
| <input type="checkbox"/> Temporary Mulching                | <input type="checkbox"/> Other (specify)                               |
| <input type="checkbox"/> Permanent Seeding                 | <input type="checkbox"/> Other (specify)                               |

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

1) Erosion Control Blanket: This item will be used within 24 hours after permanent seeding operations have been completed, in ditches/swales and sloped areas that require protection from erosion. Erosion control blankets shall be installed over fill slopes, high velocity areas and slopes steeper than 3:1 that have been brought to final grade. Erosion Control Blanket will be installed in accordance to IDOT Specification 251.04.

2) Sodding (Salt Tolerant): Sodding will be provided within urban sections. All urban section areas disturbed by construction will be stabilized with sod immediately following final grading. It will be installed in accordance to IDOT Specification Article 252 throughout the project limits shown on the landscaping plan.

3) Geotextiles: Filter Fabric will be used under rip rap at all outfall locations

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

All areas disturbed by construction will be stabilized with permanent seeding/sodding immediately following the finished grading. Erosion Control blankets will be installed over fill slopes, which have been brought to final grade and have been seeded to protect the slopes from erosion and allow seed to germinate properly.

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:

- |  |   |
|--|---|
| <input type="checkbox"/> Perimeter Erosion Barrier               | <input type="checkbox"/> Rock Outlet Protection                   |
| <input type="checkbox"/> Temporary Ditch Check                   | <input type="checkbox"/> Riprap                                   |
| <input checked="" type="checkbox"/> Storm Drain Inlet Protection | <input type="checkbox"/> Gabions                                  |
| <input type="checkbox"/> Sediment Trap                           | <input type="checkbox"/> Slope Mattress                           |
| <input type="checkbox"/> Temporary Pipe Slope Drain              | <input type="checkbox"/> Retaining Walls                          |
| <input type="checkbox"/> Temporary Sediment Basin                | <input type="checkbox"/> Slope Walls                              |
| <input type="checkbox"/> Temporary Stream Crossing               | <input type="checkbox"/> Concrete Revetment Mats                  |
| <input type="checkbox"/> Stabilized Construction Exits           | <input type="checkbox"/> Level Spreaders                          |
| <input type="checkbox"/> Turf Reinforcement Mats                 | <input checked="" type="checkbox"/> Other (specify) Inlet Filters |
| <input type="checkbox"/> Permanent Check Dams                    | <input type="checkbox"/> Other (specify)                          |
| <input type="checkbox"/> Permanent Sediment Basin                | <input type="checkbox"/> Other (specify)                          |
| <input type="checkbox"/> Aggregate Ditch                         | <input type="checkbox"/> Other (specify)                          |
| <input type="checkbox"/> Paved Ditch                             | <input type="checkbox"/> Other (specify)                          |

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

1) Storm Drain Inlet Protection: This item will be utilized at all manholes, catch basins and inlets with open grates. Inlet filters will be installed directly on the drainage structure or under the grate of the drainage structure resting on the lip of the frame. Inlet filters will be checked on a regular basis and any sediment/debris will be removed to maintain inlet protection. Storm Drain Inlet Protection will be done in accordance with Article 280.04 of the IDOT Specifications.

2) Inlet Filters - This item will be provided for the existing and proposed storm sewers, sediment filters will be placed in all catch basins during construction and will be cleaned on a regular basis.

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

All areas disturbed by construction will be stabilized with permanent seeding/sodding immediately following the finished grading. Erosion Control blankets will be installed over fill slopes, which have been brought to final grade and have been seeded to protect the slopes from erosion and allow seed to germinate properly.

#### 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:

N/A

- 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:

Management practices, controls and other provisions provided in this plans are in accordance with IDOT Standard Specifications for Road and Bridge Construction and the Illinois Urban Manual, The Village of Hanover Park and all other applicable permits.

- G. **Contractor Required Submittals:** Prior to conducting any professional services at the site covered by this plan, the Contractor and each subcontractor responsible for compliance with the permit shall submit to the Resident Engineer a Contractor Certification Statement, BDE 2342a.
1. The Contractor shall provide a construction schedule containing an adequate level of detail to show major activities with implementation of pollution prevention BMPs, including the following items:
    - Approximate duration of the project, including each stage of the project
    - Rainy season, dry season, and winter shutdown dates
    - Temporary stabilization measures to be employed by contract phases
    - Mobilization timeframe
    - Mass clearing and grubbing/roadside clearing dates
    - Deployment of Erosion Control Practices
    - Deployment of Sediment Control Practices (including stabilized construction entrances/exits)
    - Deployment of Construction Site Management Practices (including concrete washout facilities, chemical storage, refueling locations, etc.)
    - Paving, saw-cutting, and any other pavement related operations
    - Major planned stockpiling operations
    - Timeframe for other significant long-term operations or activities that may plan non-storm water discharges such as dewatering, grinding, etc.
    - Permanent stabilization activities for each area of the project
  2. The Contractor and each subcontractor shall provide, as an attachment to their signed Contractor Certification Statement, a discussion of how they will comply with the requirements of the permit in regard to the following items and provide a graphical representation showing location and type of BMPs to be used when applicable:

- Vehicle Entrances and Exits – Identify type and location of stabilized construction entrances and exits to be used and how they will be maintained.
- Material Delivery, Storage and Use – Discuss where and how materials including chemicals, concrete curing compounds, petroleum products, etc. will be stored for this project.
- Stockpile Management – Identify the location of both on-site and off-site stockpiles. Discuss what BMPs will be used to prevent pollution of storm water from stockpiles.
- Waste Disposal – Discuss methods of waste disposal that will be used for this project.
- Spill Prevention and Control – Discuss steps that will be taken in the event of a material spill (chemicals, concrete curing compounds, petroleum, etc.)
- Concrete Residuals and Washout Wastes – Discuss the location and type of concrete washout facilities to be used on this project and how they will be signed and maintained.
- Litter Management – Discuss how litter will be maintained for this project (education of employees, number of dumpsters, frequency of dumpster pick-up, etc.).
- Vehicle and Equipment Fueling – Identify equipment fueling locations for this project and what BMPs will be used to ensure containment and spill prevention.
- Vehicle and Equipment Cleaning and Maintenance – Identify where equipment cleaning and maintenance locations for this project and what BMPs will be used to ensure containment and spill prevention.
- Dewatering Activities – Identify the controls which will be used during dewatering operations to ensure sediments will not leave the construction site.
- Polymer Flocculants and Treatment Chemicals – Identify the use and dosage of treatment chemicals and provide the Resident Engineer with Material Safety Data Sheets. Describe procedures on how the chemicals will be used and identify who will be responsible for the use and application of these chemicals. The selected individual must be trained on the established procedures.
- Additional measures indicated in the plan.

### III. Maintenance:

When requested by the Contractor, the Resident Engineer will provide general maintenance guides to the Contractor for the practices associated with this project. The following additional procedures will be used to maintain, in good and effective operating conditions, the vegetation, erosion and sediment control measures and other protective measures identified in this plan. It will be the Contractor's responsibility to attain maintenance guidelines for any manufactured BMPs which are to be installed and maintained per manufacture's specifications.

The Resident Engineer will provide 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.

All ESC measures will be maintained in accordance with the IDOT Erosion and Sediment Control Field Guide for Construction Inspection: (<http://www.dot.il.gov/desenv/environmental/IDOT%20Field%20Guide.pdf>) and IDOT's Best Management Practices - Maintenance Guide: (<http://www.dot.state.il.us/desenv/environmental/bestpractices.html>).

All maintenance of ESC systems is the responsibility of the contractor.

All ESC measures should be checked weekly and after each rainfall, 0.5 inches or greater in a 24 hour period, or equivalent snowfall. Additionally during winter months, all measures should be checked after each significant snowmelt.

All offsite borrow, waste and use areas are part of the construction site and are to be inspected according to language in this section.

### 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](mailto: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:

N/A

**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.



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	<u>Celebrity Circle</u>	Marked Rte.	_____
Section	<u>15-00065-00-PV</u>	Project No.	_____
County	<u>DuPage/Cook</u>	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:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# Illinois Environmental Protection Agency

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

## Division of Water Pollution Control Notice of Intent (NOI) for General Permit to Discharge Storm Water Associated with Construction Site Activities

*This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at the above address.*

For Office Use Only

### OWNER INFORMATION

Permit No. ILR10 \_\_\_\_\_

Company/Owner Name: Village of Hanover Park

Mailing Address: 2121 West Lake Street

Phone: \_\_\_\_\_

City: Hanover Park State: IL Zip: 60133

Fax: \_\_\_\_\_

Contact Person: Mr. T.J. Moore

E-mail: \_\_\_\_\_

Owner Type (select one) City

MS4 Community:  Yes  No

### CONTRACTOR INFORMATION

Contractor Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Phone: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Fax: \_\_\_\_\_

### CONSTRUCTION SITE INFORMATION

Select One:  New  Change of information for: ILR10 \_\_\_\_\_

Project Name: Celebrity Circle Reconstruction / Resurfacing

County: DuPage/Cook

Street Address: Celebrity Circle City: Hanover Park

IL Zip: \_\_\_\_\_

Latitude: 41 58 21.78 Longitude: 88 08 32.87 7 40N 10E  
(Deg) (Min) (Sec) (Deg) (Min) (Sec) Section Township Range

Approximate Construction Start Date April 4, 2016 Approximate Construction End Date July 1, 2016

Total size of construction site in acres: 1.733

If less than 1 acre, is the site part of a larger common plan of development?  
 Yes  No

Fee Schedule for Construction Sites:  
Less than 5 acres - \$250  
5 or more acres - \$750

### STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Has the SWPPP been submitted to the Agency?  Yes  No

(Submit SWPPP electronically to: [epa.constilr10swppp@illinois.gov](mailto:epa.constilr10swppp@illinois.gov))

Location of SWPPP for viewing: Address: \_\_\_\_\_ City: \_\_\_\_\_

SWPPP contact information: \_\_\_\_\_ Inspector qualifications: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

Project inspector, if different from above \_\_\_\_\_ Inspector qualifications: \_\_\_\_\_

Inspector's Name: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

**TYPE OF CONSTRUCTION (select one)**

Construction Type Reconstruction

SIC Code: \_\_\_\_\_

Type a detailed description of the project:

Roadway Reconstruction and Roadway Resurfacing, earth excavation, roadway undercut, curb removal and replacement, erosion control and landscaping, and all incidental and collateral work necessary to complete the project.

**HISTORIC PRESERVATION AND ENDANGERED SPECIES COMPLIANCE**

Has the project been submitted to the following state agencies to satisfy applicable requirements for compliance with Illinois law on:

- Historic Preservation Agency     Yes     No
- Endangered Species                 Yes     No

**RECEIVING WATER INFORMATION**

Does your storm water discharge directly to:  Waters of the State    or     Storm Sewer

Owner of storm sewer system: Village of Hanover Park

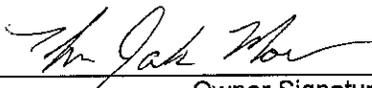
Name of closest receiving water body to which you discharge: West Branch DuPage River

Mail completed form to: Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Attn: Permit Section  
Post Office Box 19276  
Springfield, Illinois 62794-9276  
or call (217) 782-0610  
FAX: (217) 782-9891

Or submit electronically to: [epa.constit10swppp@illinois.gov](mailto:epa.constit10swppp@illinois.gov)

I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. In addition, I certify that the provisions of the permit, including the development and implementation of a storm water pollution prevention plan and a monitoring program plan, will be complied with.

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



Owner Signature:

7/8/13

Date:

Thomas Jack Moore

Printed Name:

Director of Public Works

Title:

**INSTRUCTIONS FOR COMPLETION OF CONSTRUCTION ACTIVITY NOTICE OF INTENT (NOI) FORM**

Submit original, electronic or facsimile copies. Facsimile and/or electronic copies should be followed-up with submission of an original signature copy as soon as possible. Please write "copy" under the "For Office Use Only" box in the upper right hand corner of the first page.

***This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at:***

Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Permit Section  
Post Office Box 19276  
Springfield, Illinois 62794-9276  
or call (217) 782-0610  
FAX: (217) 782-9891

Or submit electronically to: [epa.constilr10swppp@illinois.gov](mailto:epa.constilr10swppp@illinois.gov)

**Reports must be typed or printed legibly and signed.**

Any facility that is not presently covered by the General NPDES Permit for Storm Water Discharges From Construction Site Activities is considered a new facility.

If this is a change in your facility information, renewal, etc., please fill in your permit number on the appropriate line, changes of information or permit renewal notifications do not require a fee.

**NOTE: FACILITY LOCATION IS NOT NECESSARILY THE FACILITY MAILING ADDRESS, BUT SHOULD DESCRIBE WHERE THE FACILITY IS LOCATED.**

Use the formats given in the following examples for correct form completion.

	Example	Format
Section	12	1 or 2 numerical digits
Township	12N	1 or 2 numerical digits followed by "N" or "S"
Range	12W	1 or 2 numerical digits followed by "E" or "W"

For the Name of Closest Receiving Waters, do not use terms such as ditch or channel. For unnamed tributaries, use terms which include at least a named main tributary such as "Unnamed Tributary to Sugar Creek to Sangamon River."

Submission of initial fee and an electronic submission of Storm Water Pollution Prevention Plan (SWPPP) for Initial Permit prior to the Notice of Intent being considered complete for coverage by the ILR10 General Permits. Please make checks payable to: Illinois EPA at the above address.

Construction sites with less than 5 acres of land disturbance - fee is \$250.

Construction sites with 5 or more acres of land disturbance - fee is \$750.

SWPPP should be submitted electronically to: [epa.constilr10swppp@illinois.gov](mailto:epa.constilr10swppp@illinois.gov) When submitting electronically, use Project Name and City as indicated on NOI form.

# Cook County Prevailing Wage for July 2015

(See explanation of column headings at bottom of wages)

Trade Name	RG	TYP	C	Base	FRMAN	M-F>8	OSA	OSH	H/W	Pensn	Vac	Trng
ASBESTOS ABT-GEN	ALL			39.400	39.950	1.5	1.5	2.0	13.98	11.28	0.000	0.500
ASBESTOS ABT-MEC	BLD			36.340	38.840	1.5	1.5	2.0	11.47	10.96	0.000	0.720
BOILERMAKER	BLD			47.070	51.300	2.0	2.0	2.0	6.970	18.13	0.000	0.400
BRICK MASON	BLD			43.780	48.160	1.5	1.5	2.0	10.05	14.43	0.000	1.030
CARPENTER	ALL			44.350	46.350	1.5	1.5	2.0	11.79	16.39	0.000	0.630
CEMENT MASON	ALL			43.750	45.750	2.0	1.5	2.0	13.05	14.45	0.000	0.480
CERAMIC TILE FNSHER	BLD			36.810	0.000	1.5	1.5	2.0	10.55	9.230	0.000	0.770
COMM. ELECT.	BLD			40.000	42.800	1.5	1.5	2.0	8.670	12.57	1.100	0.750
ELECTRIC PWR EQMT OP	ALL			46.100	51.100	1.5	1.5	2.0	10.76	14.87	0.000	0.460
ELECTRIC PWR GRNDMAN	ALL			37.050	52.500	1.5	2.0	2.0	8.630	12.28	0.000	0.370
ELECTRIC PWR LINEMAN	ALL			47.500	52.500	1.5	2.0	1.5	11.06	15.75	0.000	0.480
ELECTRICIAN	ALL			45.000	48.000	1.5	1.5	2.0	13.83	15.27	0.000	1.000
ELEVATOR CONSTRUCTOR	BLD			50.800	57.150	2.0	2.0	2.0	13.57	14.21	4.060	0.600
FENCE ERECTOR	ALL			37.340	39.340	1.5	1.5	2.0	13.05	12.06	0.000	0.300
GLAZIER	BLD			40.500	42.000	1.5	2.0	2.0	13.14	16.99	0.000	0.940
HT/FROST INSULATOR	BLD			48.450	50.950	1.5	1.5	2.0	11.47	12.16	0.000	0.720
IRON WORKER	ALL			44.200	46.200	2.0	2.0	2.0	13.65	21.14	0.000	0.350
LABORER	ALL			39.200	39.950	1.5	1.5	2.0	13.98	10.72	0.000	0.500
LATHER	ALL			44.350	46.350	1.5	1.5	2.0	13.29	16.39	0.000	0.630
MACHINIST	BLD			45.350	47.850	1.5	1.5	2.0	7.260	8.950	1.850	0.000
MARBLE FINISHERS	ALL			32.400	34.320	1.5	1.5	2.0	10.05	13.75	0.000	0.620
MARBLE MASON	BLD			43.030	47.330	1.5	1.5	2.0	10.05	14.10	0.000	0.780
MATERIAL TESTER I	ALL			29.200	0.000	1.5	1.5	2.0	13.98	10.72	0.000	0.500
MATERIALS TESTER II	ALL			34.200	0.000	1.5	1.5	2.0	13.98	10.72	0.000	0.000
MILLWRIGHT	ALL			44.350	46.350	1.5	1.5	2.0	13.29	16.39	0.000	0.630
OPERATING ENGINEER	BLD 1			48.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER	BLD 2			46.800	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER	BLD 3			44.250	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER	BLD 4			42.500	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER	BLD 5			51.850	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER	BLD 6			49.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER	BLD 7			51.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER	FLT 1			53.600	53.600	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER	FLT 2			52.100	53.600	1.5	1.5	2.0	17.10	11.05	1.900	1.250
OPERATING ENGINEER	FLT 3			46.400	53.600	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER	FLT 4			38.550	53.600	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER	FLT 5			55.100	53.600	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER	FLT 6			35.000	35.000	1.5	1.5	2.0	16.60	11.05	1.900	1.250
OPERATING ENGINEER	HWY 1			46.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER	HWY 2			45.750	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER	HWY 3			43.700	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER	HWY 4			42.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER	HWY 5			41.100	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER	HWY 6			49.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER	HWY 7			47.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
ORNAMNTL IRON WORKER	ALL			45.000	47.500	0.0	0.0	0.0	0.000	0.000	0.000	0.650
PAINTER	ALL			41.750	46.500	1.5	1.5	1.5	11.50	11.10	0.000	0.770
PAINTER SIGNS	BLD			33.920	38.090	1.5	1.5	1.5	2.600	2.710	0.000	0.000
PILEDRIIVER	ALL			44.350	46.350	1.5	1.5	2.0	13.29	16.39	0.000	0.630
PIPEFITTER	BLD			46.000	49.000	1.5	1.5	2.0	9.000	15.85	0.000	1.780
PLASTERER	BLD			43.430	46.040	1.5	1.5	2.0	13.05	14.43	0.000	1.020
PLUMBER	BLD			46.650	48.650	1.5	1.5	2.0	13.18	11.46	0.000	0.880

ROOFER		BLD	41.000	44.000	1.5	1.5	2.0	8.280	10.54	0.000	0.530
SHEETMETAL WORKER		BLD	42.230	45.610	1.5	1.5	2.0	10.53	20.68	0.000	0.720
SIGN HANGER		BLD	31.310	33.810	1.5	1.5	2.0	4.850	3.280	0.000	0.000
SPRINKLER FITTER		BLD	49.200	51.200	1.5	1.5	2.0	11.75	9.650	0.000	0.550
STEEL ERECTOR		ALL	42.070	44.070	2.0	2.0	2.0	13.45	19.59	0.000	0.350
STONE MASON		BLD	43.780	48.160	1.5	1.5	2.0	10.05	14.43	0.000	1.030
SURVEY WORKER		ALL	37.000	37.750	1.5	1.5	2.0	12.97	9.930	0.000	0.500
TERRAZZO FINISHER		BLD	38.040	0.000	1.5	1.5	2.0	10.55	11.22	0.000	0.720
TERRAZZO MASON		BLD	41.880	44.880	1.5	1.5	2.0	10.55	12.51	0.000	0.940
TILE MASON		BLD	43.840	47.840	1.5	1.5	2.0	10.55	11.40	0.000	0.990
TRAFFIC SAFETY WRKR		HWY	32.750	34.350	1.5	1.5	2.0	6.550	6.450	0.000	0.500
TRUCK DRIVER	E	ALL 1	35.480	35.680	1.5	1.5	2.0	8.350	10.50	0.000	0.150
TRUCK DRIVER	E	ALL 2	34.100	34.500	1.5	1.5	2.0	8.150	8.500	0.000	0.150
TRUCK DRIVER	E	ALL 3	34.300	34.500	1.5	1.5	2.0	8.150	8.500	0.000	0.150
TRUCK DRIVER	E	ALL 4	34.500	34.500	1.5	1.5	2.0	8.150	8.500	0.000	0.150
TRUCK DRIVER	W	ALL 1	35.600	35.800	1.5	1.5	1.5	8.250	9.140	0.000	0.150
TRUCK DRIVER	W	ALL 2	32.700	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.000
TRUCK DRIVER	W	ALL 3	32.900	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.000
TRUCK DRIVER	W	ALL 4	33.100	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.000
TUCKPOINTER		BLD	43.800	44.800	1.5	1.5	2.0	8.280	13.49	0.000	0.670

Legend: RG (Region)

TYP (Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers)

C (Class)

Base (Base Wage Rate)

FRMAN (Foreman Rate)

M-F>8 (OT required for any hour greater than 8 worked each day, Mon through Fri.)

OSA (Overtime (OT) is required for every hour worked on Saturday)

OSH (Overtime is required for every hour worked on Sunday and Holidays)

H/W (Health & Welfare Insurance)

Pensn (Pension)

Vac (Vacation)

Trng (Training)

## Explanations

### COOK COUNTY

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

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

### EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the

removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

#### CERAMIC TILE FINISHER

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

#### COMMUNICATIONS ELECTRICIAN

Installation, operation, inspection, maintenance, repair and service of radio, television, recording, voice sound vision production and reproduction, telephone and telephone interconnect, facsimile, data apparatus, coaxial, fibre optic and wireless equipment, appliances and systems used for the transmission and reception of signals of any nature, business, domestic, commercial, education, entertainment, and residential purposes, including but not limited to, communication and telephone, electronic and sound equipment, fibre optic and data communication systems, and the performance of any task directly related to such installation or service whether at new or existing sites, such tasks to include the placing of wire and cable and electrical power conduit or other raceway work within the equipment room and pulling wire and/or cable through conduit and the installation of any incidental conduit, such that the employees covered hereby can complete any job in full.

#### MARBLE FINISHER

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

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

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

#### OPERATING ENGINEER - BUILDING

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

## Trenching Machines.

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

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

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

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

## OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

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

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

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

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

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

Class 6. Field Mechanics and Field Welders

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

#### OPERATING ENGINEER - FLOATING

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

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

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

Slip/Dock, or Scow, Deck Machinery, etc.

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

Class 5. Friction or Lattice Boom Cranes.

Class 6. ROV Pilot, ROV Tender

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

#### TERRAZZO FINISHER

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

#### TRAFFIC SAFETY

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

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

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

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

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

trucks, 1-man operation; Winch trucks, 3 axles or more;  
Mechanic--Truck Welder and Truck Painter.

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

#### Other Classifications of Work:

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

#### LANDSCAPING

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

#### MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

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

# Du Page County Prevailing Wage for July 2015

(See explanation of column headings at bottom of wages)

Trade Name	RG	TYP	C	Base	FRMAN	M-F>8	OSA	OSH	H/W	Pensn	Vac	Trng
ASBESTOS ABT-GEN		ALL		39.400	39.950	1.5	1.5	2.0	13.98	11.28	0.000	0.500
ASBESTOS ABT-MEC		BLD		36.340	38.840	1.5	1.5	2.0	11.47	10.96	0.000	0.720
BOILERMAKER		BLD		47.070	51.300	2.0	2.0	2.0	6.970	18.13	0.000	0.400
BRICK MASON		BLD		43.780	48.160	1.5	1.5	2.0	10.05	14.43	0.000	1.030
CARPENTER		ALL		44.350	46.350	1.5	1.5	2.0	13.29	16.39	0.000	0.630
CEMENT MASON		ALL		43.750	45.750	2.0	1.5	2.0	13.05	14.45	0.000	0.480
CERAMIC TILE FNSHER		BLD		36.810	0.000	1.5	1.5	2.0	10.55	9.230	0.000	0.770
COMMUNICATION TECH		BLD		32.650	34.750	1.5	1.5	2.0	9.550	15.16	1.250	0.610
ELECTRIC PWR EQMT OP		ALL		37.890	51.480	1.5	1.5	2.0	5.000	11.75	0.000	0.380
ELECTRIC PWR EQMT OP		HWY		39.220	53.290	1.5	1.5	2.0	5.000	12.17	0.000	0.390
ELECTRIC PWR GRNDMAN		ALL		29.300	51.480	1.5	1.5	2.0	5.000	9.090	0.000	0.290
ELECTRIC PWR GRNDMAN		HWY		30.330	53.290	1.5	1.5	2.0	5.000	9.400	0.000	0.300
ELECTRIC PWR LINEMAN		ALL		45.360	51.480	1.5	1.5	2.0	5.000	14.06	0.000	0.450
ELECTRIC PWR LINEMAN		HWY		46.950	53.290	1.5	1.5	2.0	5.000	14.56	0.000	0.470
ELECTRIC PWR TRK DRV		ALL		30.340	51.480	1.5	1.5	2.0	5.000	9.400	0.000	0.300
ELECTRIC PWR TRK DRV		HWY		31.400	53.290	1.5	1.5	2.0	5.000	9.730	0.000	0.310
ELECTRICIAN		BLD		38.160	41.980	1.5	1.5	2.0	9.550	18.29	4.680	0.680
ELEVATOR CONSTRUCTOR		BLD		50.800	57.150	2.0	2.0	2.0	13.57	14.21	4.060	0.600
FENCE ERECTOR	NE	ALL		37.340	39.340	1.5	1.5	2.0	13.05	12.06	0.000	0.300
FENCE ERECTOR	W	ALL		45.060	48.660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
GLAZIER		BLD		40.500	42.000	1.5	2.0	2.0	13.14	16.99	0.000	0.940
HT/FROST INSULATOR		BLD		48.450	50.950	1.5	1.5	2.0	11.47	12.16	0.000	0.720
IRON WORKER	E	ALL		44.200	46.200	2.0	2.0	2.0	13.65	21.14	0.000	0.350
IRON WORKER	W	ALL		45.060	48.660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
LABORER		ALL		39.200	39.950	1.5	1.5	2.0	13.98	10.72	0.000	0.500
LATHER		ALL		44.350	46.350	1.5	1.5	2.0	13.29	16.39	0.000	0.630
MACHINIST		BLD		45.350	47.850	1.5	1.5	2.0	7.260	8.950	1.850	0.000
MARBLE FINISHERS		ALL		31.400	32.970	1.5	1.5	2.0	9.850	13.10	0.000	0.600
MARBLE MASON		BLD		43.030	47.330	1.5	1.5	2.0	10.05	14.10	0.000	0.780
MATERIAL TESTER I		ALL		29.200	0.000	1.5	1.5	2.0	13.98	10.72	0.000	0.500
MATERIALS TESTER II		ALL		34.200	0.000	1.5	1.5	2.0	13.98	10.72	0.000	0.500
MILLWRIGHT		ALL		44.350	46.350	1.5	1.5	2.0	13.29	16.39	0.000	0.630
OPERATING ENGINEER		BLD 1		48.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 2		46.800	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 3		44.250	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 4		42.500	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 5		51.850	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 6		49.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 7		51.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		FLT		36.000	36.000	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		HWY 1		46.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 2		45.750	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 3		43.700	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 4		42.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 5		41.100	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 6		49.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 7		47.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
ORNAMNTL IRON WORKER E		ALL		43.900	46.400	2.0	2.0	2.0	13.36	17.24	0.000	0.650
ORNAMNTL IRON WORKER W		ALL		45.060	48.660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
PAINTER		ALL		41.730	43.730	1.5	1.5	1.5	10.30	8.200	0.000	1.350
PAINTER SIGNS		BLD		33.920	38.090	1.5	1.5	1.5	2.600	2.710	0.000	0.000
PILEDRIIVER		ALL		44.350	46.350	1.5	1.5	2.0	13.29	16.39	0.000	0.630

PIPEFITTER		BLD	46.000	49.000	1.5	1.5	2.0	9.000	15.85	0.000	1.780
PLASTERER		BLD	41.250	43.760	1.5	1.5	2.0	9.700	13.08	0.000	0.980
PLUMBER		BLD	46.650	48.650	1.5	1.5	2.0	13.18	11.46	0.000	0.880
ROOFER		BLD	41.000	44.000	1.5	1.5	2.0	8.280	10.54	0.000	0.530
SHEETMETAL WORKER		BLD	44.720	46.720	1.5	1.5	2.0	10.65	13.31	0.000	0.820
SPRINKLER FITTER		BLD	49.200	51.200	1.5	1.5	2.0	11.75	9.650	0.000	0.550
STEEL ERECTOR	E	ALL	42.070	44.070	2.0	2.0	2.0	13.45	19.59	0.000	0.350
STEEL ERECTOR	W	ALL	45.060	48.660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
STONE MASON		BLD	43.780	48.160	1.5	1.5	2.0	10.05	14.43	0.000	1.030
SURVEY WORKER		ALL	37.000	37.750	1.5	1.5	2.0	12.97	9.930	0.000	0.500
TERRAZZO FINISHER		BLD	38.040	0.000	1.5	1.5	2.0	10.55	11.22	0.000	0.720
TERRAZZO MASON		BLD	41.880	44.880	1.5	1.5	2.0	10.55	12.51	0.000	0.940
TILE MASON		BLD	42.840	46.840	1.5	1.5	2.0	10.55	10.42	0.000	0.920
TRAFFIC SAFETY WRKR		HWY	32.750	34.350	1.5	1.5	2.0	6.550	6.450	0.000	0.500
TRUCK DRIVER		ALL 1	35.920	36.120	1.5	1.5	2.0	8.280	8.760	0.000	0.150
TRUCK DRIVER		ALL 2	32.700	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.150
TRUCK DRIVER		ALL 3	32.900	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.150
TRUCK DRIVER		ALL 4	33.100	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.150
TUCKPOINTER		BLD	42.620	43.620	1.5	1.5	2.0	10.05	13.34	0.000	0.670

Legend: RG (Region)

TYP (Trade Type - All, Highway, Building, Floating, Oil & Chip, Rivers)

C (Class)

Base (Base Wage Rate)

FRMAN (Foreman Rate)

M-F>8 (OT required for any hour greater than 8 worked each day, Mon through Fri.)

OSA (Overtime (OT) is required for every hour worked on Saturday)

OSH (Overtime is required for every hour worked on Sunday and Holidays)

H/W (Health & Welfare Insurance)

Pensn (Pension)

Vac (Vacation)

Trng (Training)

## Explanations

### DUPAGE COUNTY

IRON WORKERS AND FENCE ERECTOR (WEST) - West of Route 53.

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

### EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from

ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

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

#### CERAMIC TILE FINISHER

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

#### COMMUNICATIONS TECHNICIAN

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

#### MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all material that may be

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

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

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

#### OPERATING ENGINEER - BUILDING

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

Class 2. Boilers; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks;

Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Inside Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Screed; Rock Drill (Self-Propelled); Rock Drill (Truck Mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

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

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

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

#### OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

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

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with

attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

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

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

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

Class 6. Field Mechanics and Field Welders

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

#### OPERATING ENGINEER - FLOATING

Diver. Diver Wet Tender, Diver Tender, ROV Pilot, ROV Tender

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

#### TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

Class 1. Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement

Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamsters; Unskilled Dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

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

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

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

#### TERRAZZO FINISHER

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

#### Other Classifications of Work:

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

#### LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape

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

#### MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

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

State of Illinois  
Department of Transportation  
Bureau of Local Roads and Streets  
SPECIAL PROVISION  
FOR  
CONSTRUCTION AND MAINTENANCE SIGNS

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

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

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

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

ABV ABOVE  
 A/C ACCESS CONTROL  
 AC ACRE  
 ADJ ADJUST  
 AS AERIAL SURVEYS  
 AGG AGGREGATE  
 AH AHEAD  
 APT APARTMENT  
 ASPH ASPHALT  
 AUX AUXILIARY  
 AGS AUXILIARY GAS VALVE (SERVICE)  
 AVE AVENUE  
 AX AXIS OF ROTATION  
 BK BACK  
 B-B BACK TO BACK  
 BKPL BACKPLATE  
 B BARR  
 BARR BARRICADE  
 BON BEGIN  
 BM BENCHMARK  
 BIND BINDER  
 BIT BITUMINOUS  
 BTM BOTTOM  
 BLVD BOULEVARD  
 BRK BRICK  
 BROX BUFFALO BOX  
 BLDG BUILDING  
 CIP CAST IRON PIPE  
 CB CATCH BASIN  
 C-C CENTER TO CENTER  
 CL CENTERLINE OR CLEARANCE  
 CL-E CENTERLINE TO EDGE  
 CL-F CENTERLINE TO FACE  
 CTS CENTERS  
 CERT CERTIFIED  
 CHSLD CHISELED  
 CT COAT OR COURT  
 CS CLAY PIPE  
 CLSD CLOSED  
 CLID CLOSED LID  
 COAT COAT OR COURT  
 COMB COMBINATION  
 C COMMERCIAL BUILDING  
 CC CONCRETE  
 CONST CONSTRUCT  
 CONTD CONTINUED  
 CONT CONTINUOUS  
 COR CORNER  
 CORR CORRUGATED  
 CMP CORRUGATED METAL PIPE  
 CNTY COUNTY  
 CH COUNTY HIGHWAY  
 CSE COURSE  
 XSECT CROSS SECTION  
 m<sup>3</sup> CUBIC METER  
 mm<sup>3</sup> CUBIC MILLIMETER

CU YD CUBIC YARD  
 CULV CULVERT  
 CAC CURB & GUTTER  
 D DEGREE OF CURVE  
 DC DEPRESSED CURVE  
 DET DETECTOR  
 DIA DIAMETER  
 DIST DISTRICT  
 DOM DOMESTIC  
 DBL DOUBLE  
 DSEL DOWNSTREAM ELEVATION  
 DSFL DOWNSTREAM FLOWLINE  
 DR DRAINAGE OR DRIVE  
 DI DRAINAGE INLET OR DROP INLET  
 DRV DRIVEWAY  
 DCT DUCT  
 EA EACH  
 EB EASTBOUND  
 EOP EDGE OF PAVEMENT  
 E-CL EDGE TO CENTERLINE  
 E-E EDGE TO EDGE  
 EL ELEVATION  
 ENTR ENTRANCE  
 EXC EXCAVATION  
 EX EXISTING  
 EXPWY EXPRESSWAY  
 E EXTERNAL DISTANCE OF HORIZONTAL CURVE  
 E OFFSET DISTANCE TO VERTICAL CURVE  
 F-F FACE TO FACE  
 FA FEDERAL AID  
 FAI FEDERAL AID INTERSTATE  
 FAP FEDERAL AID PRIMARY  
 FAS FEDERAL AID SECONDARY  
 FAUS FEDERAL AID URBAN SECONDARY  
 FP FENCE POST  
 FE FIELD ENTRANCE  
 FH FIRE HYDRANT  
 FL FLOW LINE  
 FB FOOT BRIDGE  
 FDN FOUNDATION  
 FR FRAME  
 FAG FRAME & GRATE  
 FRWAY FREEWAY  
 GAL GALLON  
 GALV GALVANIZED  
 G GARAGE  
 GM GAS METER  
 GV GAS VALVE  
 GRAN GRANULAR  
 GR GRATE  
 GRVL GRAVEL  
 GRD GROUND  
 GUT GUTTER  
 GP GUY POLE  
 GW GUY WIRE  
 H HANDHOLE  
 HATCH HATCHING

HD HEAD  
 HDW HEADWALL  
 HDUTY HEAVY DUTY  
 HG HECTARE  
 HMA HOT MIX ASPHALT  
 HWY HIGHWAY  
 HORIZ HORIZONTAL  
 ILL ILLINOIS  
 IMP IMPROVEMENT  
 IN DIA INCH DIAMETER  
 INLET INLET  
 INST INSTALLATION  
 IDS INTERSECTION DESIGN STUDY  
 INV INVERT  
 IP IRON PIPE  
 IR IRON ROD  
 JT JOINT  
 KIL KILOGRAM  
 KM KILOMETER  
 LS LANDSCAPING  
 LN LANE  
 LT LEFT  
 LP LIGHT POLE  
 LGT LIGHTING  
 LF LINEAL FEET OR LINEAR FEET  
 L LITER OR CURVE LENGTH  
 LC LONG CHORD  
 LNO LONGITUDINAL  
 L SUM LUMP SUM  
 MACH MACHING  
 MB MAIL BOX  
 MH MANHOLE  
 MATL MATERIAL  
 MED MEDIAN  
 M METER  
 METH METHOD  
 M MID-ORDINATE  
 mm MILLIMETER  
 mm DIA MILLIMETER DIAMETER  
 MIX MIXTURE  
 MOBILE MOBILE HOME  
 MFT MOTOR FUEL TANK  
 N & C NAIL & CAP  
 N & W NAIL & WASHER  
 NDA NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION  
 NC NORMAL CROWN  
 NB NORTHBOUND  
 NE NORTHEAST  
 NN NORTHWEST  
 OLID OPEN LID  
 PAT PATTERN  
 PVD PAVED  
 PVMT PAVEMENT  
 PM PAVEMENT MARKING

PEDESTAL  
 PAT POINT  
 PC POINT OF CURVATURE  
 PI POINT OF INTERSECTION OF HORIZONTAL CURVE  
 PRC POINT OF REVERSE CURVE  
 PT POINT OF TANGENCY  
 POT POINT ON TANGENT  
 POLYETH POLYETHYLENE  
 PCC PORTLAND CEMENT CONCRETE  
 PP POWER POLE OR PRINCIPAL POINT  
 PRM PRIME  
 PE PRIVATE ENTRANCE  
 PROF PROFILE  
 PGL PROFILE GRADELINE  
 PROJ PROJECT  
 P.C. PROPERTY CORNER  
 PL PROPERTY LINE  
 PR PROPOSED  
 R RADIUS  
 RR RAILROAD  
 RRS RAILROAD SPIKE  
 RPS REFERENCE POINT STAKE  
 REF REFLECTIVE  
 RCCP REINFORCED CONCRETE CULVERT PIPE  
 REINF REINFORCEMENT  
 REM REMOVAL  
 RC REMOVE CROWN  
 REP REPLACEMENT  
 REST RESTAURANT  
 RESURF RESURFACING  
 RET RETAINING  
 RT RIGHT  
 ROB RIGHT-OF-WAY  
 ROAD ROAD  
 RDY ROADWAY  
 RTE ROUTE  
 SAN SANITARY  
 SANS SANITARY SEWER  
 SEC SECTION  
 SEED SEEDING  
 SHAP SHAPING  
 S SHED  
 SH SHEET  
 SHLD SHOULDER  
 SW SIDEWALK OR SOUTHWEST  
 SIG SIGNAL  
 SOD SODDING  
 SM SOLID MEDIUM  
 SB SOUTHBOUND  
 SE SOUTHEAST  
 SPL SPECIAL  
 SD SPECIAL DITCH  
 SQ FT SQUARE FEET  
 m<sup>2</sup> SQUARE METER  
 mm<sup>2</sup> SQUARE MILLIMETER  
 SQ YD SQUARE YARD  
 STB STABILIZED

STD STANDARD  
 SBI STATE BOND ISSUE  
 SR STATE ROUTE  
 STA STATION  
 SPBGR STEEL PLATE BEAM GUARDRAIL  
 SS STORM SEWER  
 STY STORY  
 STR STREET  
 STR STRUCTURE  
 SURF SUPERELEVATION RATE  
 S.E. RUN, SURF SUPERELEVATION RUNOFF LENGTH  
 SURF SURFACE  
 SMK SURVEY MARKER  
 T TANGENT DISTANCE  
 T.R. TANGENT RUNOUT DISTANCE  
 TEL TELEPHONE  
 TB TELEPHONE BOX  
 TP TELEPHONE POLE  
 TEMP TEMPORARY  
 TBM TEMPORARY BENCH MARK  
 TD TILE DRAIN  
 TBE TO BE EXTENDED  
 TBR TO BE REMOVED  
 TBS TO BE SAVED  
 TWP TOWNSHIP  
 TR TOWNSHIP ROAD  
 TS TRAFFIC SIGNAL  
 TSCB TRAFFIC SIGNAL CONTROL BOX  
 TSC TRAFFIC SYSTEMS CENTER  
 TRNS TRANSVERSE  
 TRVL TRAVEL  
 TRN TURN  
 TY TYPE  
 T-A TYPE A  
 TYP TYPICAL  
 UNDERG UNDERGROUND  
 USGS U.S. GEOLOGICAL SURVEY  
 USEL UPSTREAM ELEVATION  
 USFL UPSTREAM FLOWLINE  
 UTIL UTILITY  
 VBOX VALVE BOX  
 VV VALVE VAULT  
 VLT VAULT  
 VEH VEHICLE  
 VP VENT PIPE  
 VERT VERTICAL  
 VC VERTICAL CURVE  
 VPC VERTICAL POINT OF CURVATURE  
 VPI VERTICAL POINT OF INTERSECTION  
 VPT VERTICAL POINT OF TANGENCY  
 WM WATER METER  
 WY WATER VALVE  
 WMAIN WATER MAIN  
 WB WESTBOUND  
 WDFL WILDFLOWERS  
 W WITH  
 WD WITHOUT

Illinois Department of Transportation  
 PASSED January 11, 2011  
 Michael Powell  
 ENGINEER OF WATER AND SEWERAGE  
 APPROVED January 11, 2011  
 DEPARTMENT OF DESIGN AND CONSTRUCTION

DATE	REVISIONS
1-1-11	Updated abbreviations and symbols.
1-1-08	Updated abbreviations and symbols.

**STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS**  
 (Sheet 1 of 1)  
 STANDARD 000001-06

ADJUSTMENT ITEMS		EX	PR	ALIGNMENT ITEMS		EX	PR	CONTOUR ITEMS		EX	PR																										
Structure To Be Adjusted			ADJ	Baseline				Approx. Index Line																													
Structure To Be Cleaned			C	Centerline				Approx. Intermediate Line																													
Main Structure To Be Filled			FM	Centerline Break Circle	○		○	Index Contour																													
Structure To Be Filled			F	Baseline Symbol				Intermediate Contour																													
Structure To Be Filled Special			FSP	Centerline Symbol				<b>DRAINAGE ITEMS</b>																													
Structure To Be Removed			R	PI Indicator	▲		▲	Channel or Stream Line																													
Structure To Be Reconstructed			REC	Point Indicator	○		○	Culvert Line																													
Structure To Be Reconstructed Special			RSP	Horizontal Curve Data (Half Size)			<table border="0"> <tr><td colspan="2">CURVE</td></tr> <tr><td>P.I. STA#</td><td>P.I. STA#</td></tr> <tr><td>Δ</td><td>Δ</td></tr> <tr><td>D=</td><td>D=</td></tr> <tr><td>R=</td><td>R=</td></tr> <tr><td>T=</td><td>T=</td></tr> <tr><td>L=</td><td>L=</td></tr> <tr><td>E=</td><td>E=</td></tr> <tr><td>q=</td><td>q=</td></tr> <tr><td>T.A.°</td><td>T.A.°</td></tr> <tr><td>S.E. RUN=</td><td>S.E. RUN=</td></tr> <tr><td>P.C. STA#</td><td>P.C. STA#</td></tr> <tr><td>P.T. STA#</td><td>P.T. STA#</td></tr> </table>	CURVE		P.I. STA#	P.I. STA#	Δ	Δ	D=	D=	R=	R=	T=	T=	L=	L=	E=	E=	q=	q=	T.A.°	T.A.°	S.E. RUN=	S.E. RUN=	P.C. STA#	P.C. STA#	P.T. STA#	P.T. STA#	Grading & Shaping Ditches			
CURVE																																					
P.I. STA#	P.I. STA#																																				
Δ	Δ																																				
D=	D=																																				
R=	R=																																				
T=	T=																																				
L=	L=																																				
E=	E=																																				
q=	q=																																				
T.A.°	T.A.°																																				
S.E. RUN=	S.E. RUN=																																				
P.C. STA#	P.C. STA#																																				
P.T. STA#	P.T. STA#																																				
Frame and Grate To Be Adjusted			A	<b>BOUNDARIES ITEMS</b>			EX	PR	Drainage Boundary Line																												
Frame and Lid To Be Adjusted			A	Dashed Property Line					Paved Ditch																												
Domestic Service Box To Be Adjusted			A	Solid Property/Lot Line					Aggregate Ditch																												
Valve Vault To Be Adjusted			A	Section/Grant Line					Pipe Underdrain																												
Special Adjustment			SP	Quarter/Grant Line					Storm Sewer																												
Item To Be Abandoned			AB	Quarter/Quarter Section Line					Flowline																												
Item To Be Moved			M	Quarter/Quarter Section Line					Ditch Check																												
Item To Be Relocated			REL	County/Township Line					Headwall																												
Pavement Removal and Replacement				State Line					Inlet																												
				Iron Pipe Found	○		○		Manhole																												
				Iron Pipe Set	●		●		Summit																												
				Survey Marker					Roadway Ditch Flow																												
				Property Line Symbol					Slope																												
				Same Ownership Symbol (Half Size)					Catch Basin																												
				Northwest Quarter Corner (Half Size)					Culvert End Section																												
				Section Corner (Half Size)					Water Surface Indicator																												
				Southeast Quarter Corner (Half Size)					Riprap																												

**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**  
(Sheet 2 of 8)

---

**STANDARD 000001-06**

Illinois Department of Transportation  
 PASSED January 3, 2001  
 ENGINEER OF POLICY AND PROCEDURES  
 APPROVED January 3, 2001  
 ENGINEER OF DESIGN AND ENVIRONMENT

<b>EROSION &amp; SEDIMENT CONTROL ITEMS</b>	<b>EX</b>	<b>PR</b>
Cleaning & Grading Limits	---	---
Dike	~~~~~	~~~~~
Erosion Control Fence	~~~~~	~~~~~
Perimeter Erosion Barrier	~~~~~	~~~~~
Temporary Fence	---	---
Ditch Check Temporary	◇	◇
Ditch Check Permanent	◆	◆
Inlet & Pipe Protection	◇	◇
Sediment Basin	○	○
Erosion Control Blanket	▨	▨
Fabric Formed Concrete Revetment Mat	▨	▨
Turf Reinforcement Mat	▨	▨
Mulch Temporary	▨	▨
Mulch Method 1	▨	▨
Mulch Method 2 Stabilized	▨	▨
Mulch Method 3 Hydraulic	▨	▨

<b>NON-HIGHWAY IMPROVEMENT ITEMS</b>	<b>EX</b>	<b>PR</b>
Noise Att'n/Leeve	▨	▨
Field Line	---	---
Fence	---	---
Base of Levee	▨	▨
Mailbox	▽	▽
Multiple Mailboxes	▽	▽
Pay Telephone	□	□
Advertising Sign	▽	▽
<b>LANDSCAPING ITEMS</b>	<b>EX</b>	<b>PR</b>
Contour Mounding Line	---	---
Fence	---	---
Fence Post	•	•
Shrubs	▨	▨
Mowline	○	○
Perennial Plants	▨	▨
Seeding Class 2	▨	▨
Seeding Class 2A	▨	▨
Seeding Class 4	▨	▨
Seeding Class 4 & 5 Combined	▨	▨

<b>EXISTING LANDSCAPING ITEMS (cont.)</b>	<b>EX</b>	<b>PR</b>
Seeding Class 5	▨	▨
Seeding Class 7	▨	▨
Seedlings Type 1	▨	▨
Seedlings Type 2	▨	▨
Sodding	▨	▨
Mowstake w/Sign	---	---
Tree Trunk Protection	○	○
Evergreen Tree	⊕	⊕
Shade Tree	⊕	⊕
<b>LIGHTING</b>	<b>EX</b>	<b>PR</b>
Duct	---	---
Conduit	---	---
Electrical Aerial Cable	---	---
Electrical Buried Cable	---	---
Controller	□	□
Underpass Luminaire	□	□
Power Pole	□	□

Missouri Department of Transportation  
 PASSED January 3, 2011  
 ENGINEER OF POLYMER & PROCEDURES  
 APPROVED January 3, 2011  
 ENGINEER OF DESIGN AND ENVIRONMENT

**STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS**  
 (Sheet 3 of 8)  
 STANDARD 000001-06

**LIGHTING**  
**(contd.)**

	EX	PR
Pull Point		
Handhole		
Heavy Duty Handhole		
Junction Box		
Light Unit Comb.		
Electrical Ground		
Traffic Flow Arrow		
High Mast Pole (Half Size)		
Light Unit-1		

**PAVEMENT (MISC.)**

	EX	PR
Keyed Long. Joint		
Keyed Long. Joint w/Tie Bars		
Sawed Long. Joint w/Tie Bars		
Bituminous Shoulder		
Bituminous Taper		
Stabilized Driveway		
Widening		

**PAVEMENT MARKINGS**

	EX	PR
Bike Lane Symbol		
Bike Lane Text		
Handicap Symbol		
RR Crossing		
Raised Marker Amber 1 Way		
Raised Marker Amber 2 Way		
Raised Marker Crystal 1 Way		
Two Way Turn Left		
Shoulder Diag. Pattern		
Skip-Dash White		
Skip-Dash Yellow		
Stop Line		
Solid Line		
Double Centerline		
Dotted Lines		
CL 2Ln 2Way RRPM 12.2 m (40') o.c.		
CL 2Ln 2Way RRPM 80' (24.4 m) o.c.		
CL Multilane Div. RRPM 40' (12.2 m) o.c.		
CL Multilane Div. RRPM 80' (24.4 m) o.c.		
CL Multilane Div. Dbl. RRPM 80' (24.4 m) o.c.		
CL Multilane Undiv.		
Two Way Turn Left Line		

Ontario Department of Transportation  
 PASSED:                      2/11  
 ENGINEER: Michael B. Reed  
 APPROVED:                      2/11  
 PROFESSIONAL SOCIETY:                     

**STANDARD SYMBOLS,  
 ABBREVIATIONS  
 AND PATTERNS**  
 (Sheet 4 of 8)  
**STANDARD 000001-06**

**PAVEMENT MARKINGS**  
(cont'd.)

- Urban Combination Left
- Urban Combination Right
- Urban Left Turn Arrow
- Urban Right Turn Arrow
- Urban Left Turn Only
- Urban Right Turn Only
- Urban Thru Only
- Urban U-Turn
- Urban Combined U-Turn
- Rural Combination Left
- Rural Combination Right
- Rural Left Turn Arrow
- Rural Right Turn Arrow
- Rural Left Turn Only
- Rural Right Turn Only
- Rural Thru Only

**EX**

**PR**

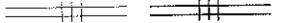
ONLY ONLY ONLY

ONLY ONLY ONLY

**RAILROAD ITEMS**

**EX**

**PR**

- Abandoned Railroad 
- Railroad 
- Railroad Point 
- Control Box 
- Crossing Gate 
- Flashing Signal 
- Railroad Cont. Mast Arm 
- Crossbuck 

**REMOVAL ITEMS**

**EX**

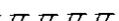
**PR**

- Removal Tic 
- Bituminous Removal 
- Hatch Pattern 
- Tree Removal Single 

**RIGHT OF WAY ITEMS**

**EX**

**PR**

- Future ROW Corner Monument 
- ROW Marker 
- ROW Line 
- Easement 
- Temporary Easement 

**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**

(Sheet 5 of 8)

STANDARD 000001-06

Illinois Department of Transportation

PASSED January 1, 2011

APPROVED January 1, 2011

ENGINEER OF POLICY AND REGULATORY AFFAIRS

PREPARED BY DESIGN AND ENVIRONMENT

08-11-15 03/2015

<b>RIGHT OF WAY ITEMS</b> <i>(contd.)</i>	<b>EX</b>	<b>PR</b>
Access Control Line	— AC —	— AC —
Access Control Line & ROW	— AC —	— AC —
Access Control Line & ROW with Fence	— AR —	— AC —
Excess ROW Line		— XS —
<b>ROADWAY PLAN ITEMS</b>		
	<b>EX</b>	<b>PR</b>
Cable Barrier	— ○ —	— ● —
Concrete Barrier	— ▬ —	— ▬ —
Edge of Pavement	— - - -	— - - -
Bit Shoulders, Medians and C&G Line	— - - -	— - - -
Aggregate Shoulder	— - - -	— - - -
Sidewalks, Driveways	— - - -	— - - -
Guardrail	— ▬ —	— ▬ —
Guardrail Post	▬	▬
Traffic Sign	▬	▬
Corrugated Median	▬	▬
Impact Attenuator	▬	▬
North Arrow with District Office (Half Size)	▬	▬
Marker Line		— STA. 45+00 —
Stop Limit Line	— - - -	
Typical Cross-Section Line	— - - -	— - - -

Illinois Department of Transportation  
 PASSED *January 2, 2011*  
 ENGINEER OF POLICY AND PROCEDURES  
 APPROVED *January 2, 2011*  
 ENGINEER OF DESIGN AND ENVIRONMENT

<b>ROADWAY PROFILES</b>	<b>EX</b>	<b>PR</b>
P.I. Indicator	▲	▲
Point Indicator	○	○
Earthworks Balance Point		◐
Begin Point		◑
Vert. Curve Data	VPI = ELEV =	VPI = ELEV =
Ditch Profile Left Side	— - - -	— - - -
Ditch Profile Right Side	— - - -	— - - -
Roadway Profile Line	— - - -	— - - -
Storm Sewer Profile Left Side	— - - -	— - - -
Storm Sewer Profile Right Side	— - - -	— - - -
<b>SIGNING ITEMS</b>		
	<b>EX</b>	<b>PR</b>
Cone, Drum or Barricade		○
Barricade Type II		▬
Barricade Type III		▬
Barricade With Edge Line		▬
Flashing Light Sign		○
Panel I		▬
Panel II		▬
Direction of Traffic		→
Sign Flag (Half Size)		▬

<b>SIGNING ITEMS</b> <i>(contd.)</i>	<b>EX</b>	<b>PR</b>
Reverse Left W1-4L (Half Size)		▬
Reverse Right W1-4R (Half Size)		▬
Two Way Traffic Sign W5-3 (Half Size)		▬
Detour Ahead W20-210 (Half Size)		▬
Left Lane Closed Ahead W20-5L10 (Half Size)		▬
Right Lane Closed Ahead W20-5R10 (Half Size)		▬
Road Closed Ahead W20-310 (Half Size)		▬
Road Construction Ahead W20-110 (Half Size)		▬
Single Lane Ahead (Half Size)		▬
Transition Left W4-2L (Half Size)		▬
Transition Right W4-2R (Half Size)		▬

**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**  
 (Sheet 6 of 8)  
 STANDARD 000001-06



<u>TRAFFIC SIGNAL ITEMS (contd.)</u>	<u>EX</u>	<u>PR</u>
Detector Raceway		
Aluminum Mast Arm		
Steel Mast Arm		
Veh. Detector Magnetic		
Conduit Splice		
Controller		
Gulfbox Junction		
Wood Pole		
Temp. Signal Head		
Handhole		
Double Handhole		
Heavy Duty Handhole		
Junction Box		
Ped. Pushbutton Detector		
Ped. Signal Head		
Power Pole Service		
Priority Veh. Detector		
Signal Head		
Signal Head w/Backplate		
Signal Post		
Closed Circuit TV		
Video Detector System		

<u>UNDERGROUND UTILITY ITEMS</u>	<u>EX</u>	<u>PR</u>	<u>ABANDONED</u>
Cable TV			
Electric Cable			
Fiber Optic			
Gas Pipe			
Oil Pipe			
Sanitary Sewer			
Telephone Cable			
Water Pipe			

<u>UTILITIES ITEMS</u>	<u>EX</u>	<u>PR</u>
Controller		
Double Handhole		
Fire Hydrant		
GuyWire or Deadend Anchor		
Handhole		
Heavy Duty Handhole		
Junction Box		
Light Pole		
Manhole		
Pipeline Warning Sign		
Power Pole		
Power Pole with Light		
Sanitary Sewer Cleanout		
Splice Box Above Ground		
Telephone Splice Box Above Ground		
Telephone Pole		

<u>UTILITY ITEMS (contd.)</u>	<u>EX</u>	<u>PR</u>
Traffic Signal		
Traffic Signal Control Box		
Water Meter		
Water Meter Valve Box		
Profile Line		
Aerial Power Line		

<u>VEGETATION ITEMS</u>	<u>EX</u>	<u>PR</u>
Deciduous Tree		
Bush or Shrub		
Evergreen Tree		
Stump		
Orchard/Nursery Line		
Vegetation Line		
Woods & Bush Line		

<u>WATER FEATURE ITEMS</u>	<u>EX</u>	<u>PR</u>
Stream or Drainage Ditch		
Water's Edge		
Water Surface Indicator		
Water Point		
Disappearing Ditch		
Marsh		
Marsh/Swamp Boundary		

Illinois Department of Transportation

PASSED: January 3, 2011

ENGINEER OF PROJECT AND PROCEDURES: *Michael Bryant*

APPROVED: *Samuel...*

FIGURE 20 - (ISSUED WITH THIS SHEET)

**STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS**

(Sheet 8 of 8)

STANDARD 000001-06

DECIMAL OF AN INCH AND OF A FOOT

A		B		A		B		A		B		A		B		A		B					
0.0052	1/200	0.171875	27/160	0.3385	41/120	0.5052	61/120	0.671875	85/120	0.8385	101/120	1.0052	121/120	1.171875	145/120	1.3385	161/120	1.5052	181/120	1.671875	205/120		
0.0104	1/100	0.171875	27/160	0.34375	41/120	0.5104	61/120	0.6771	81/120	0.84375	101/120	1.0104	121/120	1.1771	141/120	1.34375	161/120	1.5104	181/120	1.6771	201/120	1.84375	221/120
0.015625	1/64	0.1823	23/128	0.3490	43/125	0.515625	63/125	0.6823	83/125	0.8490	103/125	1.015625	123/125	1.1823	143/125	1.3490	163/125	1.515625	183/125	1.6823	203/125	1.8490	223/125
0.0208	1/48	0.1875	21/112	0.3542	43/122	0.5208	63/122	0.6875	83/122	0.8542	103/122	1.0208	123/122	1.1875	143/122	1.3542	163/122	1.5208	183/122	1.6875	203/122	1.8542	223/122
0.0260	1/38	0.1927	24/125	0.359375	43/122	0.5260	63/122	0.6927	83/122	0.859375	103/122	1.0260	123/122	1.1927	143/122	1.359375	163/122	1.5260	183/122	1.6927	203/122	1.859375	223/122
0.03125	1/32	0.1979	24/125	0.3646	43/118	0.53125	63/118	0.6979	83/118	0.8646	103/118	1.03125	123/118	1.1979	143/118	1.3646	163/118	1.53125	183/118	1.6979	203/118	1.8646	223/118
0.0365	1/27	0.203125	24/119	0.3698	43/115	0.5365	63/115	0.703125	83/115	0.8698	103/115	1.0365	123/115	1.203125	143/115	1.3698	163/115	1.5365	183/115	1.703125	203/115	1.8698	223/115
0.0417	1/24	0.2083	21/100	0.3750	43/115	0.5417	63/115	0.7083	83/115	0.8750	103/115	1.0417	123/115	1.2083	143/115	1.3750	163/115	1.5417	183/115	1.7083	203/115	1.8750	223/115
0.046875	1/21	0.2135	24/112	0.3802	43/112	0.546875	63/112	0.7135	83/112	0.8802	103/112	1.046875	123/112	1.2135	143/112	1.3802	163/112	1.546875	183/112	1.7135	203/112	1.8802	223/112
0.0521	1/19	0.21875	24/110	0.3854	43/110	0.5521	63/110	0.71875	83/110	0.8854	103/110	1.0521	123/110	1.21875	143/110	1.3854	163/110	1.5521	183/110	1.71875	203/110	1.8854	223/110
0.0573	1/17	0.2240	21/100	0.390625	43/110	0.5573	63/110	0.7240	83/110	0.890625	103/110	1.0573	123/110	1.2240	143/110	1.390625	163/110	1.5573	183/110	1.7240	203/110	1.890625	223/110
0.0625	1/16	0.2292	24/105	0.3958	43/108	0.5625	63/108	0.7292	83/108	0.8958	103/108	1.0625	123/108	1.2292	143/108	1.3958	163/108	1.5625	183/108	1.7292	203/108	1.8958	223/108
0.0677	1/15	0.234375	24/103	0.4010	43/108	0.5677	63/108	0.734375	83/108	0.9010	103/108	1.0677	123/108	1.234375	143/108	1.4010	163/108	1.5677	183/108	1.734375	203/108	1.9010	223/108
0.0729	1/14	0.2396	24/100	0.40625	43/105	0.5729	63/105	0.7396	83/105	0.90625	103/105	1.0729	123/105	1.2396	143/105	1.40625	163/105	1.5729	183/105	1.7396	203/105	1.90625	223/105
0.078125	1/13	0.2448	24/98	0.4115	43/105	0.578125	63/105	0.7448	83/105	0.9115	103/105	1.078125	123/105	1.2448	143/105	1.4115	163/105	1.578125	183/105	1.7448	203/105	1.9115	223/105
0.0833	1/12	0.2500	24/96	0.4167	43/102	0.5833	63/102	0.7500	83/102	0.9167	103/102	1.0833	123/102	1.2500	143/102	1.4167	163/102	1.5833	183/102	1.7500	203/102	1.9167	223/102
0.0885	1/11	0.2552	24/93	0.421875	43/102	0.5885	63/102	0.7552	83/102	0.921875	103/102	1.0885	123/102	1.2552	143/102	1.421875	163/102	1.5885	183/102	1.7552	203/102	1.921875	223/102
0.09375	1/10	0.2604	24/90	0.4271	43/99	0.59375	63/99	0.7604	83/99	0.9271	103/99	1.09375	123/99	1.2604	143/99	1.4271	163/99	1.59375	183/99	1.7604	203/99	1.9271	223/99
0.0990	1/10	0.265625	24/90	0.4323	43/99	0.5990	63/99	0.765625	83/99	0.9323	103/99	1.0990	123/99	1.265625	143/99	1.4323	163/99	1.5990	183/99	1.765625	203/99	1.9323	223/99
0.1042	1/10	0.2709	24/87	0.4375	43/96	0.6042	63/96	0.7709	83/96	0.9375	103/96	1.1042	123/96	1.2709	143/96	1.4375	163/96	1.6042	183/96	1.7709	203/96	1.9375	223/96
0.109375	1/9	0.2760	24/84	0.4427	43/93	0.609375	63/93	0.7760	83/93	0.9427	103/93	1.109375	123/93	1.2760	143/93	1.4427	163/93	1.609375	183/93	1.7760	203/93	1.9427	223/93
0.1146	1/9	0.28125	24/81	0.4479	43/90	0.6146	63/90	0.78125	83/90	0.9479	103/90	1.1146	123/90	1.28125	143/90	1.4479	163/90	1.6146	183/90	1.78125	203/90	1.9479	223/90
0.1198	1/8	0.2865	24/78	0.453125	43/87	0.6198	63/87	0.7865	83/87	0.953125	103/87	1.1198	123/87	1.2865	143/87	1.453125	163/87	1.6198	183/87	1.7865	203/87	1.953125	223/87
0.1250	1/8	0.2917	24/75	0.4583	43/84	0.6250	63/84	0.7917	83/84	0.9583	103/84	1.1250	123/84	1.2917	143/84	1.4583	163/84	1.6250	183/84	1.7917	203/84	1.9583	223/84
0.1302	1/8	0.296875	24/75	0.4635	43/84	0.6302	63/84	0.796875	83/84	0.9635	103/84	1.1302	123/84	1.296875	143/84	1.4635	163/84	1.6302	183/84	1.796875	203/84	1.9635	223/84
0.1354	1/8	0.3021	24/75	0.46875	43/81	0.6354	63/81	0.8021	83/81	0.96875	103/81	1.1354	123/81	1.3021	143/81	1.46875	163/81	1.6354	183/81	1.8021	203/81	1.96875	223/81
0.140625	1/7	0.3073	24/72	0.4740	43/78	0.640625	63/78	0.8073	83/78	0.9740	103/78	1.140625	123/78	1.3073	143/78	1.4740	163/78	1.640625	183/78	1.8073	203/78	1.9740	223/78
0.1458	1/7	0.3125	24/70	0.4792	43/75	0.6458	63/75	0.8125	83/75	0.9792	103/75	1.1458	123/75	1.3125	143/75	1.4792	163/75	1.6458	183/75	1.8125	203/75	1.9792	223/75
0.1510	1/7	0.3177	24/70	0.484375	43/72	0.6510	63/72	0.8177	83/72	0.984375	103/72	1.1510	123/72	1.3177	143/72	1.484375	163/72	1.6510	183/72	1.8177	203/72	1.984375	223/72
0.15625	1/6	0.3229	24/69	0.4895	43/69	0.65625	63/69	0.8229	83/69	0.9895	103/69	1.15625	123/69	1.3229	143/69	1.4895	163/69	1.65625	183/69	1.8229	203/69	1.9895	223/69
0.1615	1/6	0.328125	24/69	0.4948	43/66	0.6615	63/66	0.828125	83/66	0.9948	103/66	1.1615	123/66	1.328125	143/66	1.4948	163/66	1.6615	183/66	1.828125	203/66	1.9948	223/66
0.1667	1/6	0.3333	24/66	0.5000	43/63	0.6667	63/63	0.8333	83/63	1.0000	103/63	1.1667	123/63	1.3333	143/63	1.5000	163/63	1.6667	183/63	1.8333	203/63	1.9999	223/63

A = Fractions of Inch or Foot  
 B = Inch Equivalents to Foot Fractions

DATE	REVISIONS
1-1-57	New Standard.

**DECIMAL OF AN INCH  
 AND OF A FOOT**

STANDARD 001005

Illinois Department of Transportation

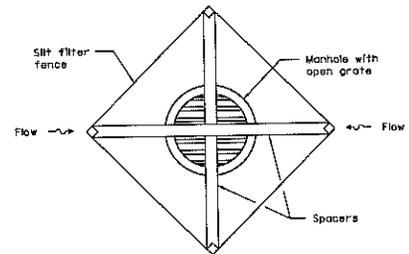
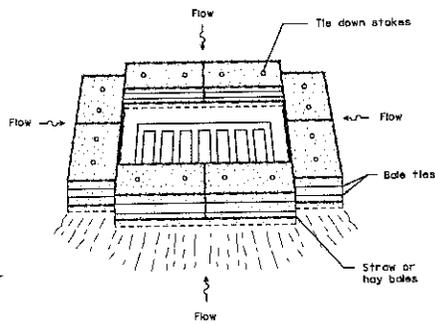
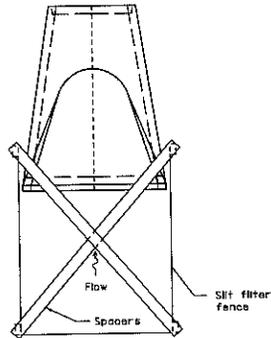
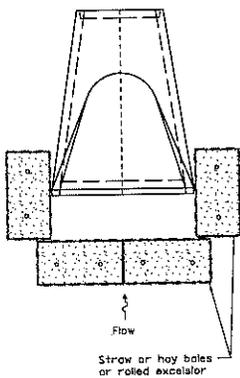
PASSED *[Signature]* 1957

ENGINEER IN CHARGE AND PROCEDURES

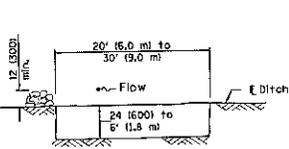
APPROVED *[Signature]* 1957

MEMBER OF ILLINOIS AND TRANSPORTATION



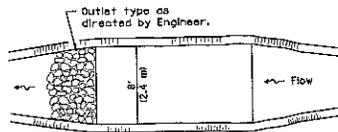


**INLET AND PIPE PROTECTION**



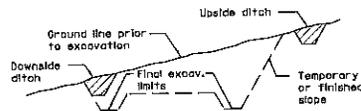
The performance of the basin will improve if put into a series.

**ELEVATION**

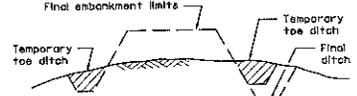


The long dimension should be parallel with the direction of the flow. Accumulated silt shall be removed anytime the basins become 75% filled.

**PLAN**



**TYPICAL CUT CROSS-SECTION**



**TYPICAL FILL CROSS-SECTION**

**TEMPORARY DITCHES FOR CUT & FILL SECTIONS**

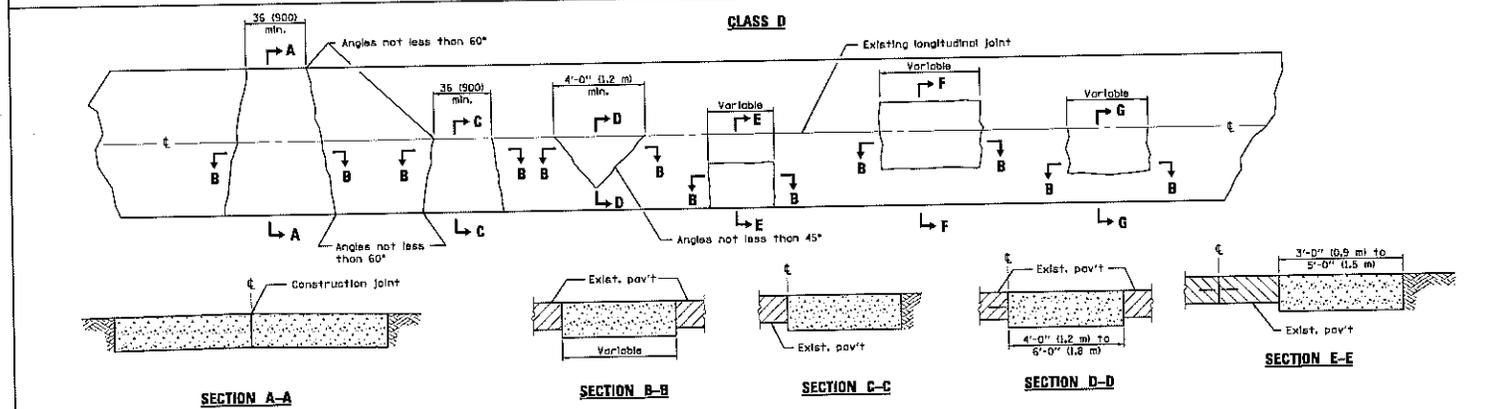
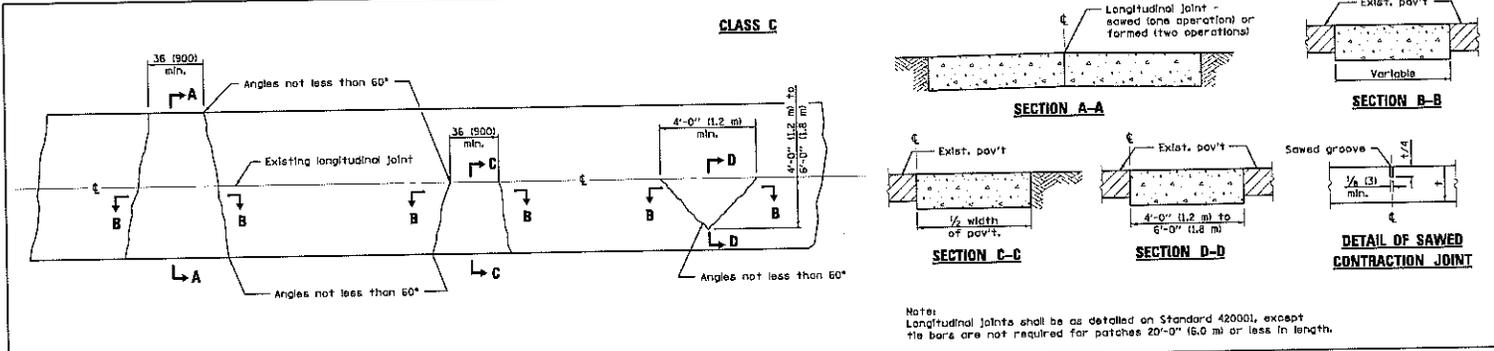
**SEDIMENT BASIN**

Missouri Department of Transportation	
PASSED	January 3, 2013
ENGINEER	Michael Brown
APPROVED	January 3, 2013
ENGINEERS OF DESIGN AND ENVIRONMENT	

**TEMPORARY EROSION CONTROL SYSTEMS**

(Sheet 2 of 2)

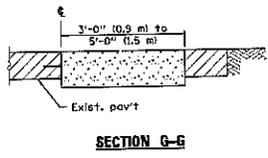
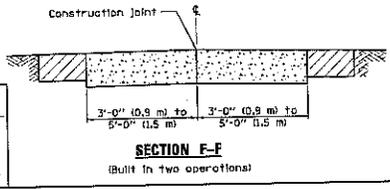
STANDARD 280001-07



**GENERAL NOTES**  
Existing tie bars shall be either cut or removed.  
Marginal bars shall be cut.

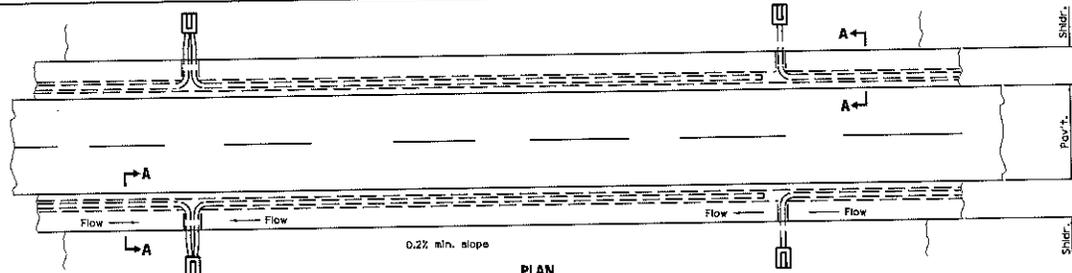
All dimensions are in inches (millimeters) unless otherwise shown.

Missouri Department of Transportation  
 PASSED January 1, 2008  
 ENGINEER OF TRAFFIC AND PROCEDURES  
 APPROVED January 1, 2008  
 DIRECTOR OF TRAFFIC AND PROCEDURES

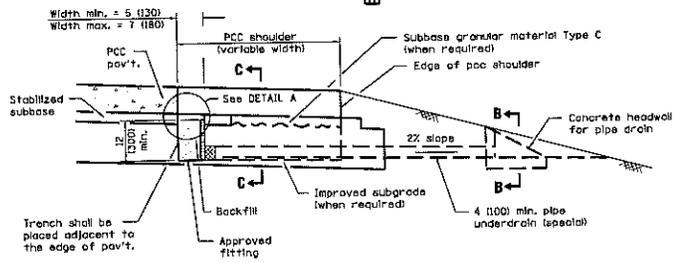


DATE	REVISIONS
1-1-08	Switched units to English (metric).
1-1-07	Revised Note for Class C patches.

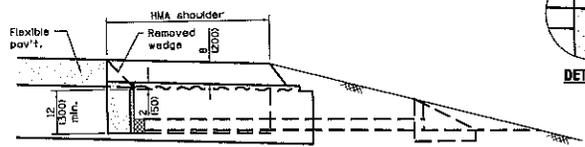
**CLASS C and D PATCHES**  
STANDARD 442201-03



PLAN



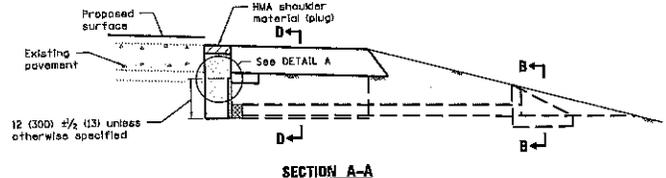
SECTION A-A  
(PCC SHOULDER)



SECTION A-A  
(HMA SHOULDER)

(Dimensions and notes not shown shall be as shown in the above Section A-A)

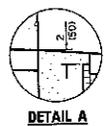
NEW CONSTRUCTION  
(TRENCH FOR DRAINAGE MAT UNDERDRAIN OPTION)



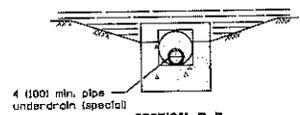
SECTION A-A

EXISTING CONSTRUCTION  
(TRENCH FOR DRAINAGE MAT UNDERDRAIN OPTION)

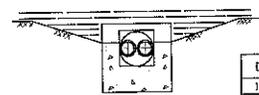
(Except as noted or shown, dimensions and notes specified for Existing Construction are the same as those of New Construction)



DETAIL A



SECTION B-B



SECTION B-B  
(Sag locations)

GENERAL NOTES

See Standard 60101 for details of concrete headwall.

See Standards 482001, 482006 and 483001 for details of shoulders not shown.

The 24 (600) radius on the drainage fitting is only a minimum. Larger radii meeting the approval of the Engineer may be substituted.

All dimensions are in inches (millimeters) unless otherwise shown.

Florida Department of Transportation

PASSED January 5, 2011

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 5, 2011

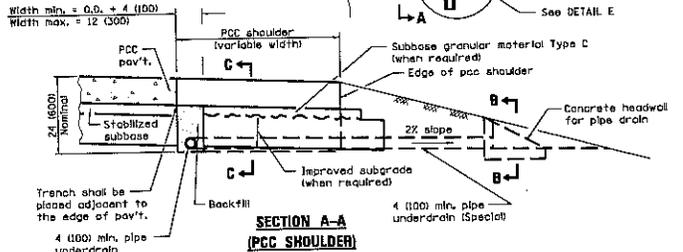
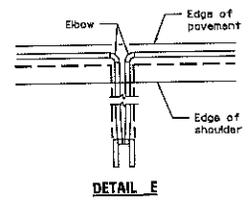
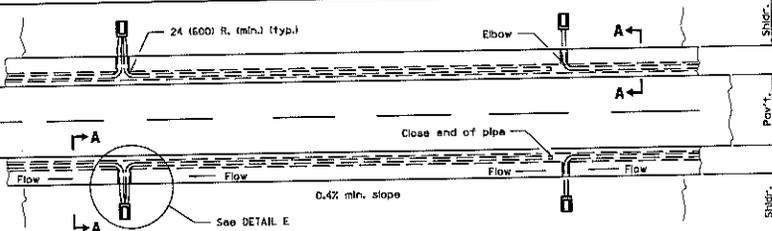
ENGINEER OF DESIGN AND CONSTRUCTION

DATE	REVISIONS
1-1-11	Added 'PCC' and 'HMA' to SECTION A-A titles on Sheet 2.
1-1-09	Switched units to English (metric).

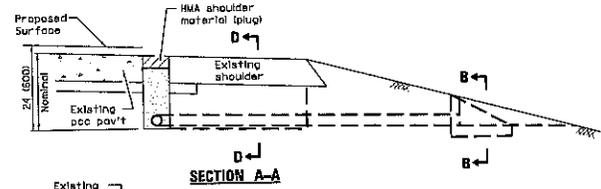
SUB-SURFACE DRAINS

(Sheet 1 of 2)

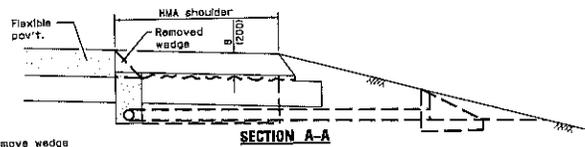
STANDARD 601001-04



PLAN

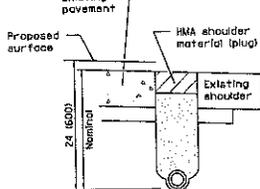


SECTION A-A



SECTION A-A (HMA SHOULDER)

(Dimensions and notes not shown shall be as shown in the above Section A-A)

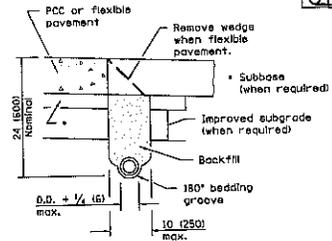


SECTION D-D

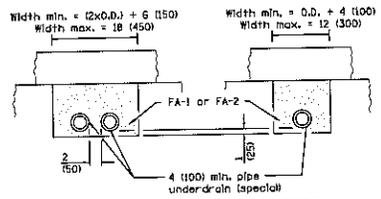
SECTION D-D (Sog Locations)

**TRENCH FOR CORRUGATED POLYETHYLENE TUBING ALTERNATE**

**EXISTING CONSTRUCTION**  
(Except as noted or shown, dimensions and notes specified for Existing Construction are the same as those of New Construction)



**TRENCH FOR CORRUGATED POLYETHYLENE TUBING ALTERNATE**



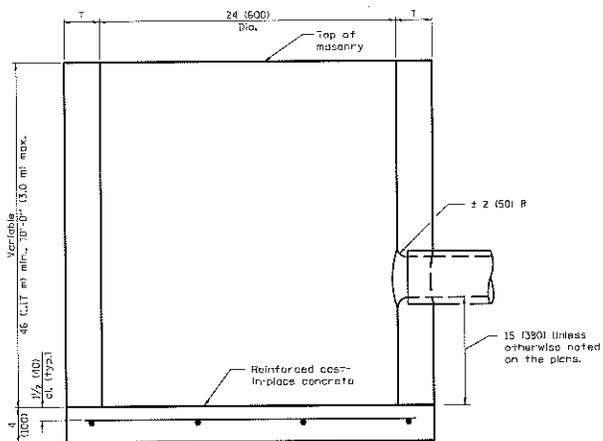
SECTION C-C (Sog Locations)

SECTION C-C

**NEW CONSTRUCTION**

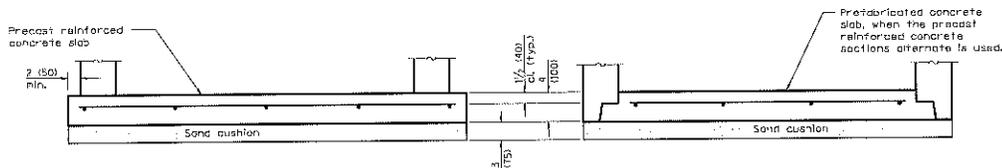
Missouri Department of Transportation	
PASSED	DATE: 11/11/2011
APPROVED BY: <i>Michael Brand</i>	DESIGNER: B. WILLEY AND ASSOCIATES
APPROVED BY: <i>John Smith</i>	DATE: 11/11/2011
PROJECT: ALSTON AND KENNEDY	

<b>SUB-SURFACE DRAINS</b>
(Sheet 2 of 2)
<b>STANDARD 601001-04</b>



**ELEVATION**

ALTERNATE MATERIALS FOR WALLS	1 (min)
Precast Reinforced Concrete Section	3 (75)
Concrete Masonry Unit	5 (125)
Cast-in-Place Concrete	6 (150)
Brick Masonry	8 (200)



**ALTERNATE BOTTOM SLAB**

**GENERAL NOTES**

Bottom slabs shall be reinforced with a minimum of 0.27 sq. in./ft. (670 sq. mm/m) in both directions with a maximum spacing of 9 (230).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-11	Revised reinf. in alcls. Added max. limit to height.
	Added general notes.
1-1-09	Switched units to English/metric.

**CATCH BASIN TYPE C**

**STANDARD 602011-02**

Illinois Department of Transportation

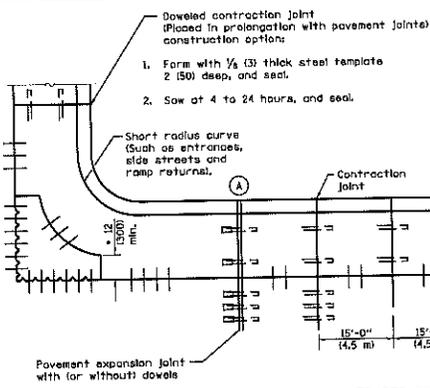
DESIGNER: *Michael R. ...* 2011

ENGINEER IN CHARGE: *...* 2011

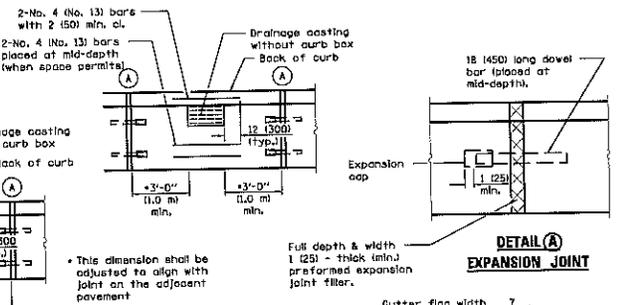
APPROVED: *...* 2011

ENGINEER OF DESIGN AND CONSTRUCTION: *...* 2011

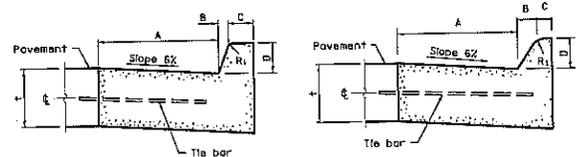
DATE: 06/11/2011



**PLAN**  
ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE



**DETAIL A**  
**EXPANSION JOINT**



**BARRIER CURB**

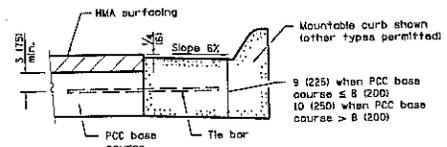
**MOUNTABLE CURB**

TABLE OF DIMENSIONS BARRIER CURB					
TYPE	A	B	C	D	R <sub>1</sub>
B-6.06* (8-15.15)	6 (150)	6 (150)	6 (150)	6 (150)	1 (25)
B-6.12 (8-15.3)	12 (300)	6 (150)	6 (150)	6 (150)	1 (25)
B-6.18 (8-15.45)	18 (450)	6 (150)	6 (150)	6 (150)	1 (25)
B-6.24 (8-15.60)	24 (600)	6 (150)	6 (150)	6 (150)	1 (25)
B-9.12 (8-22.30)	12 (300)	9 (225)	9 (225)	9 (225)	1 (25)
B-9.18 (8-22.45)	18 (450)	9 (225)	9 (225)	9 (225)	1 (25)
B-9.24 (8-22.60)	24 (600)	9 (225)	9 (225)	9 (225)	1 (25)

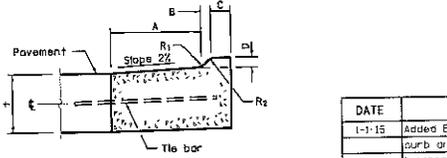
TABLE OF DIMENSIONS MOUNTABLE CURB							
TYPE	A	B	C	D	R <sub>1</sub>	R <sub>2</sub>	
M-2.06 (M-5.15)	6 (150)	2 (50)	4 (100)	2 (50)	3 (75)	2 (50)	
M-2.12 (M-5.30)	12 (300)	2 (50)	4 (100)	2 (50)	3 (75)	2 (50)	
M-4.06 (M-10.15)	6 (150)	4 (100)	3 (75)	4 (100)	3 (75)	NA	
M-4.12 (M-10.30)	12 (300)	4 (100)	3 (75)	4 (100)	3 (75)	NA	
M-4.18 (M-10.45)	18 (450)	4 (100)	3 (75)	4 (100)	3 (75)	NA	
M-4.24 (M-10.60)	24 (600)	4 (100)	3 (75)	4 (100)	3 (75)	NA	
M-6.06 (M-15.15)	6 (150)	6 (150)	2 (50)	6 (150)	2 (50)	NA	
M-6.12 (M-15.30)	12 (300)	6 (150)	2 (50)	6 (150)	2 (50)	NA	
M-6.18 (M-15.45)	18 (450)	6 (150)	2 (50)	6 (150)	2 (50)	NA	
M-6.24 (M-15.60)	24 (600)	6 (150)	2 (50)	6 (150)	2 (50)	NA	

\* For corner islands only.

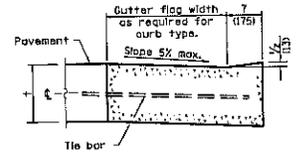
Florida Department of Transportation  
 PASSED: January 1, 2015  
 ENGINEER OF DESIGN AND PROCUREMENT  
 APPROVED: January 1, 2015  
 ENGINEER OF DESIGN AND PROCUREMENT



**ADJACENT TO PCC BASE COURSE WITH HMA SURFACING**



**M-2.06 (M-5.15) and M-2.12 (M-5.30)**



**DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED**

**GENERAL NOTES**

The bottom slope of combination curb and gutter constructed adjacent to pcc pavement shall be the same slope as the subbase or 6% when subbase is omitted.

† = Thickness of pavement.

Longitudinal joint tie bars shall be No. 6 (No. 19) at 24 (600) centers in accordance with details for longitudinal construction joint shown on Standard 420001.

A minimum clearance of 2 (50) between the end of the tie bar and the back of the curb shall be maintained.

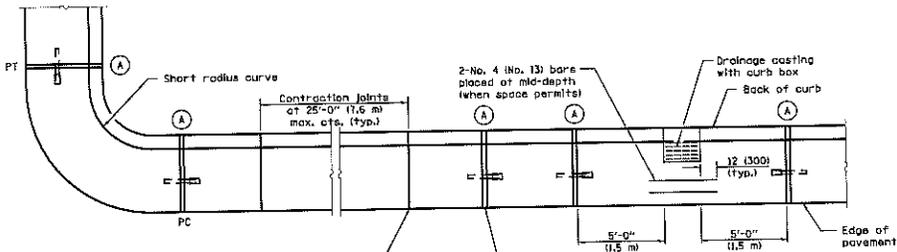
The dowel bars shown in contraction joints will only be required for monolithic construction.

See Standard 606301 for details of corner islands.

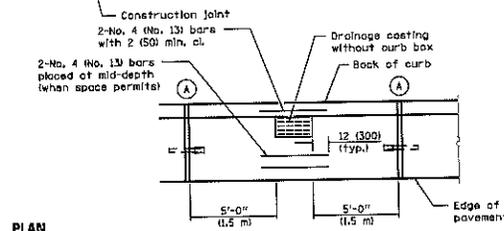
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-15	Added B-6.06 (8-15.15) barrier curb and gutter to table (corner islands only).
1-1-13	Added general note regarding requirement for dowel bars.

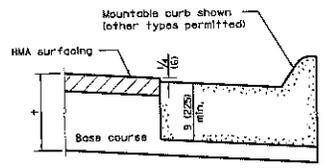
**CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER**  
 (Sheet 1 of 2)  
**STANDARD 606001-06**



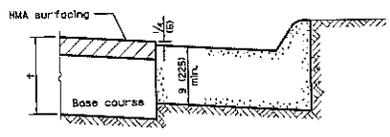
1. Form with 1/2 (13) thick steel template 2 (50) deep, and seal.
2. Saw 2 (50) deep at 4 to 24 hours, and seal.
3. Insert 1/4 (20) thick preformed joint filler full depth and width.



**PLAN**

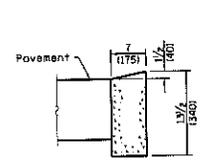


**ON DISTURBED SUBGRADE**

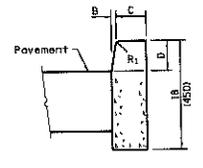


**ON UNDISTURBED SUBGRADE**

**ADJACENT TO FLEXIBLE PAVEMENT**

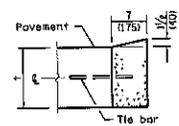


**DEPRESSED CURB**

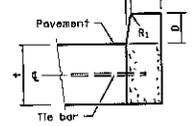


**BARRIER CURB**

**ADJACENT TO FLEXIBLE PAVEMENT**



**DEPRESSED CURB**



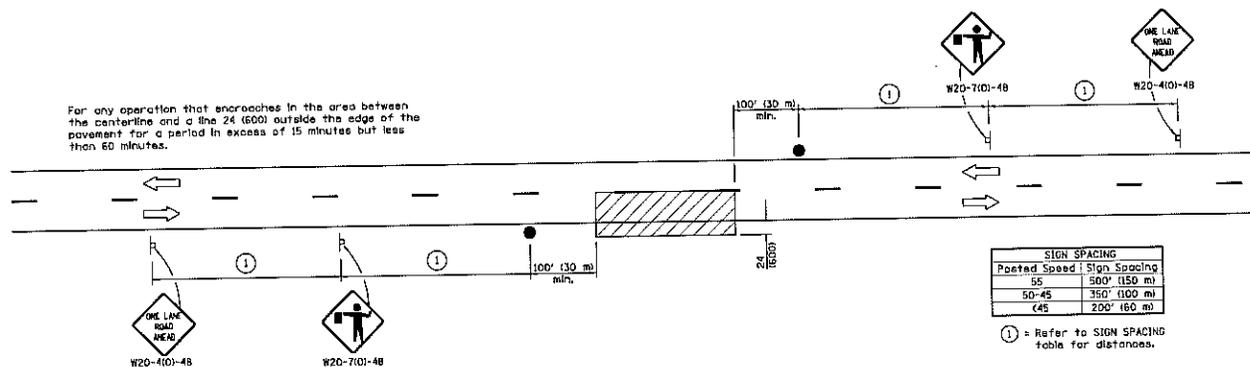
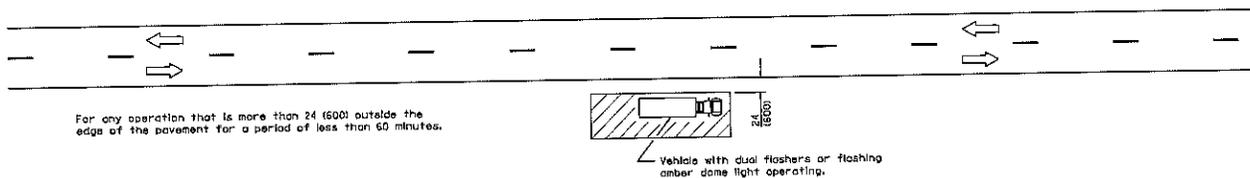
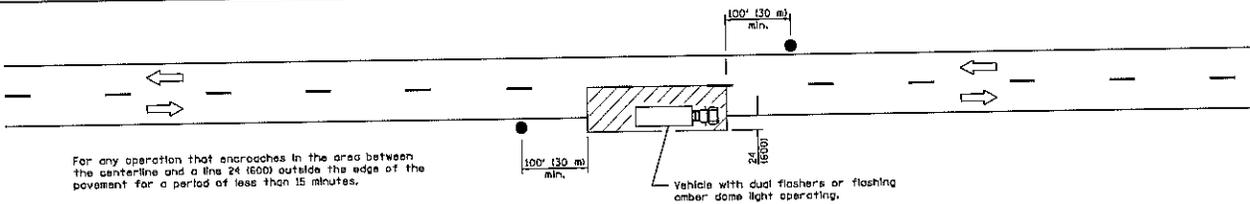
**BARRIER CURB**

**ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE**

**CONCRETE CURB TYPE B**

Illinois Department of Transportation  
 PASSED January 1, 2015  
 ENGINEER OF POLICY AND PROCEDURES  
 APPROVED January 1, 2015  
 ENGINEER IN CHARGE AND SUPERVISOR

**CONCRETE CURB TYPE B  
 AND COMBINATION  
 CONCRETE CURB AND GUTTER**  
 (Sheet 2 of 2)  
 STANDARD 606001-06



All dimensions are in inches (millimeters) unless otherwise shown.

**TYPICAL APPLICATIONS**

- Marking patches
- Field survey
- String line
- Utility operations
- Cleaning up debris on pavement

**SYMBOLS**

- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English/metric.

**LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS**

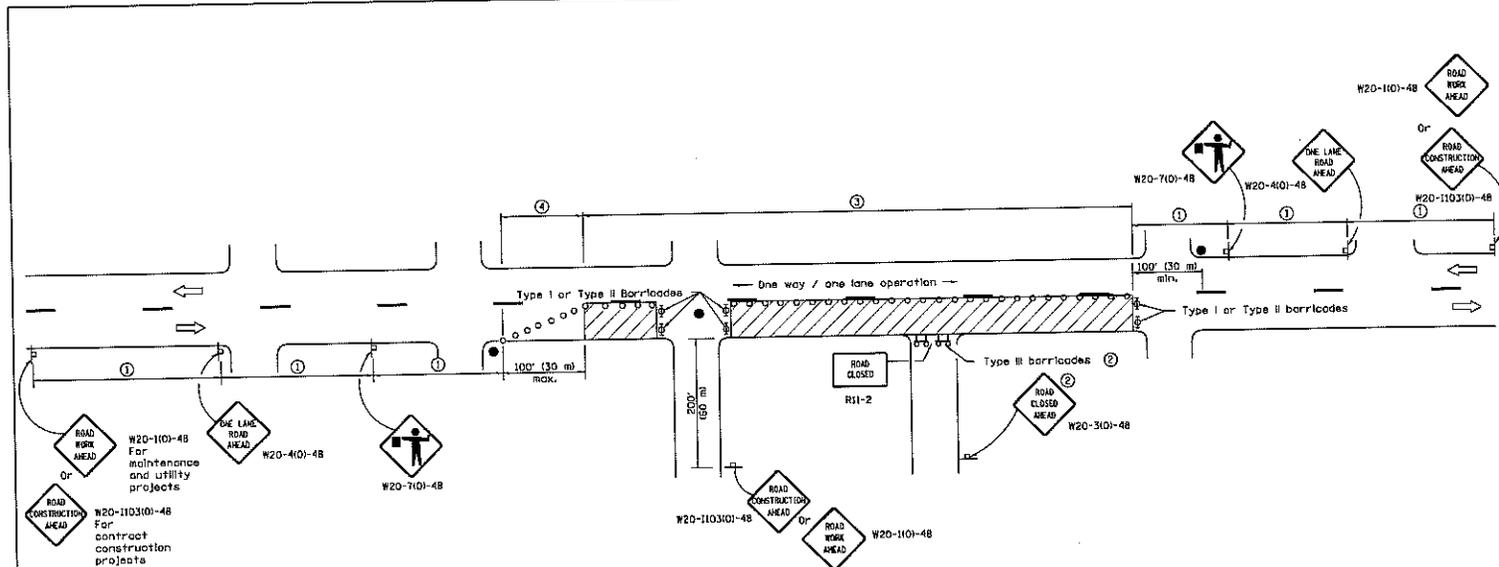
STANDARD 701301-04

Illinois Department of Transportation

APPROVED: [Signature] 2011  
 ENGINEER IN CHARGE

APPROVED: [Signature] 2011  
 ENGINEER IN CHARGE

APPROVED: [Signature] 2011  
 ENGINEER IN CHARGE



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

**SYMBOLS**

- Work area
- Cone, drum or barricade (not required for moving operations)
- Sign on portable or permanent support
- Flagger with traffic control sign
- Barricade or drum with flashing light
- Type III barricade with flashing lights

- ① Refer to SIGN SPACING TABLE for distances.
- ② For approved alderoad closures.
- ③ Cones at 25' (8 m) centers for 250' (76 m). Additional cones may be placed at 30' (9.5 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Cones, drums or barricades at 20' (6 m) centers.

**GENERAL NOTES**

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED: *[Signature]* January 1, 2011  
 ENGINEER OF SAFETY ENGINEERING

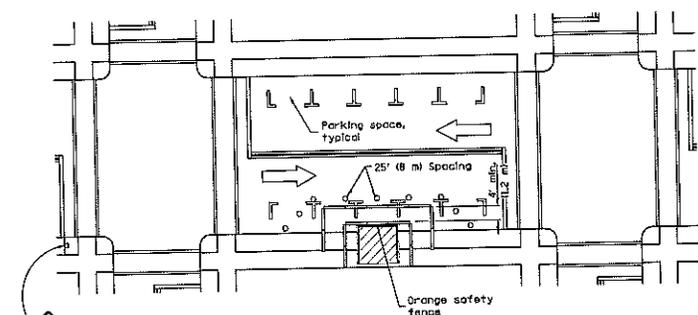
APPROVED: *[Signature]* January 1, 2011  
 ENGINEER OF DESIGN AND EXPERIMENTAL

LS-1-1 (07/02)

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-03	Switched units to English (metric).
	Corrected sign No.'s.

**URBAN LANE CLOSURE,  
2L, 2W, UNDIVIDED**

STANDARD 701501-05

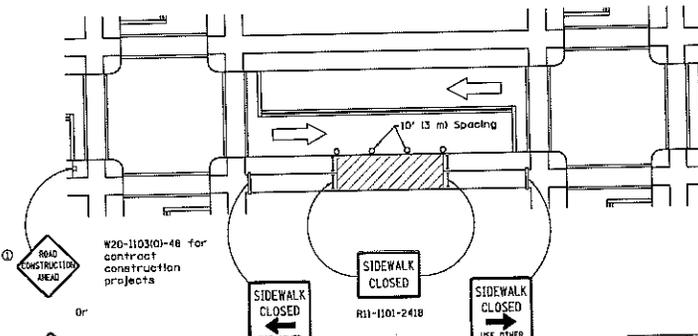


① Omit whenever duplicated by road work traffic control.

- ① ROAD CONSTRUCTION AHEAD W20-1103(D)-4B for contract construction projects
- Or
- ① ROAD WORK AHEAD W20-1101-4B for maintenance and utility projects

**SIDEWALK DIVERSION**

- SYMBOLS**
- Work area
  - Sign on portable or permanent support
  - Barricade or drum
  - Cone, drum or barricade
  - Type III barricade
  - Detectable pedestrian channelizing barricade



- ① ROAD CONSTRUCTION AHEAD W20-1103(D)-4B for contract construction projects
- Or
- ① ROAD WORK AHEAD W20-1101-4B for maintenance and utility projects

SIDEWALK CLOSED  
USE OTHER SIDE  
RII-1102-2430

SIDEWALK CLOSED  
RII-1101-2410

SIDEWALK CLOSED  
USE OTHER SIDE  
RII-1102-2430

**SIDEWALK CLOSURE**

**GENERAL NOTES**

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and RII-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED: *[Signature]* 7018  
ENGINEER OF SAFETY ENGINEERING

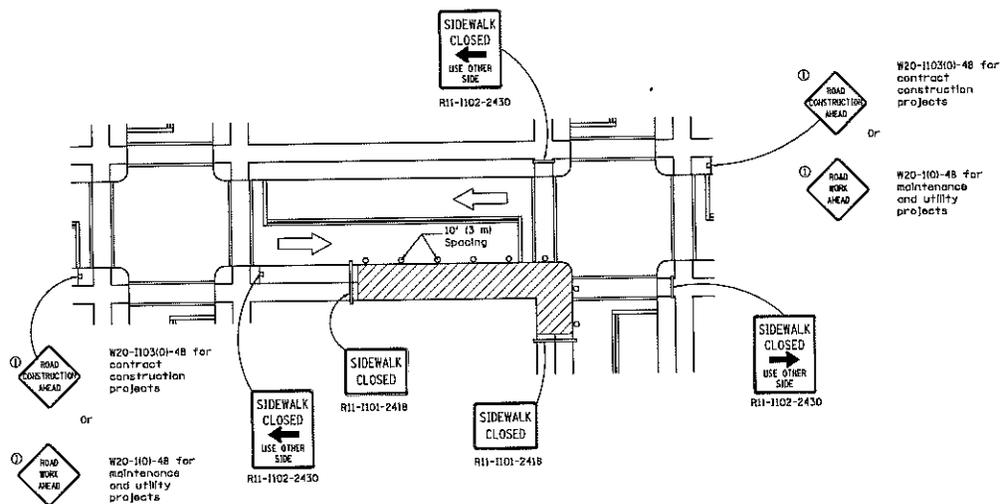
APPROVED: *[Signature]* 2207  
ENGINEER IN CHARGE, ROAD CONSTRUCTION

DATE	REVISIONS
1-1-12	Added SIDEWALK DIVERSION.
	Modified appearance of plan views. Renamed Std.
1-1-09	Switched units to English (metric).
	702901 to 701901.

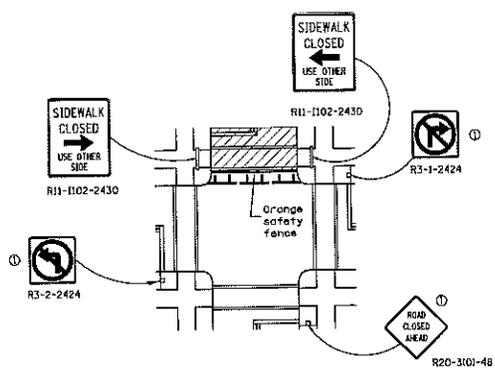
**SIDEWALK, CORNER OR CROSSWALK CLOSURE**

(Sheet 1 of 2)

STANDARD 701801-05



**CORNER CLOSURE**



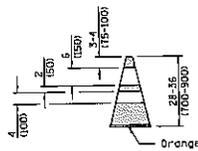
**CROSSWALK CLOSURE**

Illinois Department of Transportation  
 APPROVED: [Signature] JANUARY 1, 2017  
 ENGINEER OF SAFETY ENGINEERING  
 APPROVED: [Signature] JANUARY 1, 2012  
 ENGINEER OF DESIGN AND WORKMANSHIP

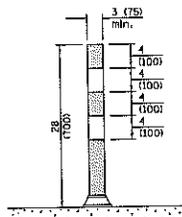
**SIDEWALK, CORNER OR CROSSWALK CLOSURE**  
 (Sheet 2 of 2)  
 STANDARD 701B01-05



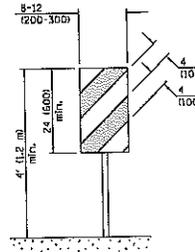
**CONE**



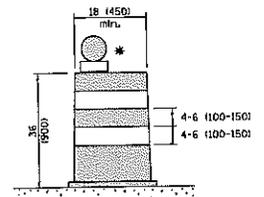
**REFLECTORIZED CONE**



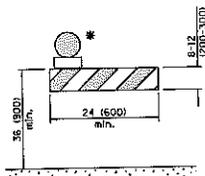
**FLEXIBLE DELINEATOR**



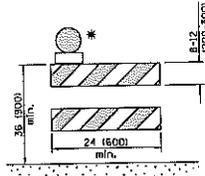
**VERTICAL PANEL  
POST MOUNTED**



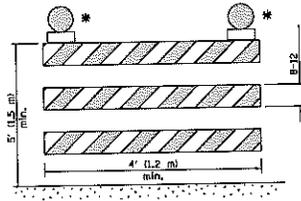
**DRUM**



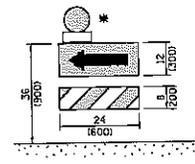
**TYPE I BARRICADE**



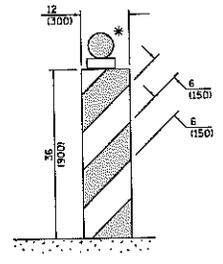
**TYPE II BARRICADE**



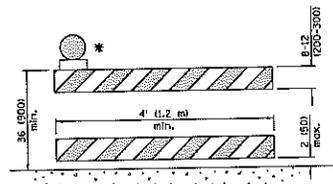
**TYPE III BARRICADE**



**DIRECTION INDICATOR  
BARRICADE**



**VERTICAL BARRICADE**



**DETECTABLE PEDESTRIAN  
CHANNELIZING BARRICADE**

\* Warning lights (if required)

**GENERAL NOTES**  
All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED: \_\_\_\_\_ 2015  
ENGINEER OF OPERATIONS

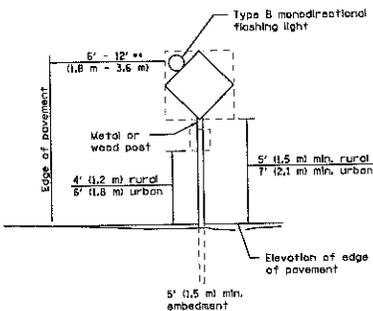
APPROVED: \_\_\_\_\_ 2015  
ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-15	Revised two sign numbers on sheet 2. Added note req. PHOTO ENFORCED plaque.
1-1-14	Modified flagger sign height. Added highway construction saved zone signs.

**TRAFFIC CONTROL  
DEVICES**

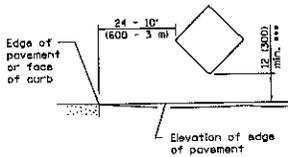
(Sheet 1 of 3)

**STANDARD 701801-04**



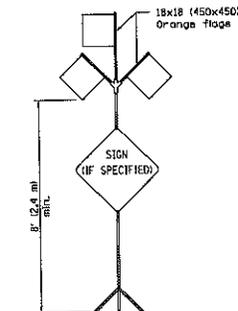
**POST MOUNTED SIGNS**

\*\* When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 5' (1.5 m) to the outside edge of the paved shoulder.



**SIGNS ON TEMPORARY SUPPORTS**

\*\*\* When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



**HIGH LEVEL WARNING DEVICE**

ROAD CONSTRUCTION NEXT X MILES  
G20-110401-6036

END CONSTRUCTION  
G20-1105101-6024

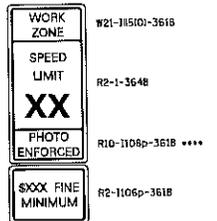
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Such sign displays shall be utilized on multi-lane highways.

**WORK LIMIT SIGNING**



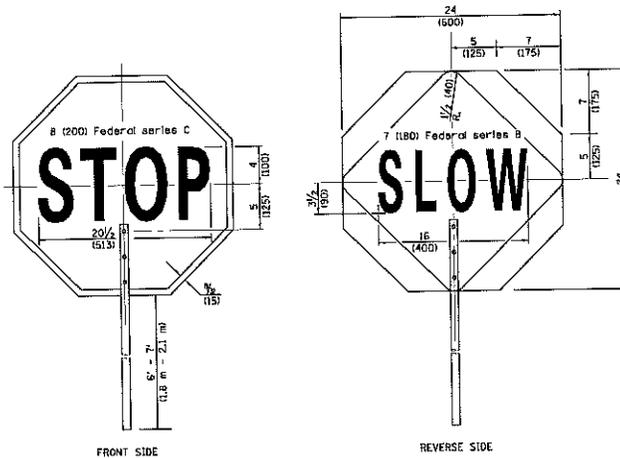
Sign assembly as shown on Standards or as allowed by District operations.



This sign shall be used when the above sign assembly is used.

**HIGHWAY CONSTRUCTION SPEED ZONE SIGNS**

\*\*\* R10-1108p shall only be used along roadways under the jurisdiction of the State.



FRONT SIDE

REVERSE SIDE

**FLAGGER TRAFFIC CONTROL SIGN**

Illinois Department of Transportation

APPROVED: [Signature] JANUARY 3, 2015

DEPARTMENT OF OPERATIONS

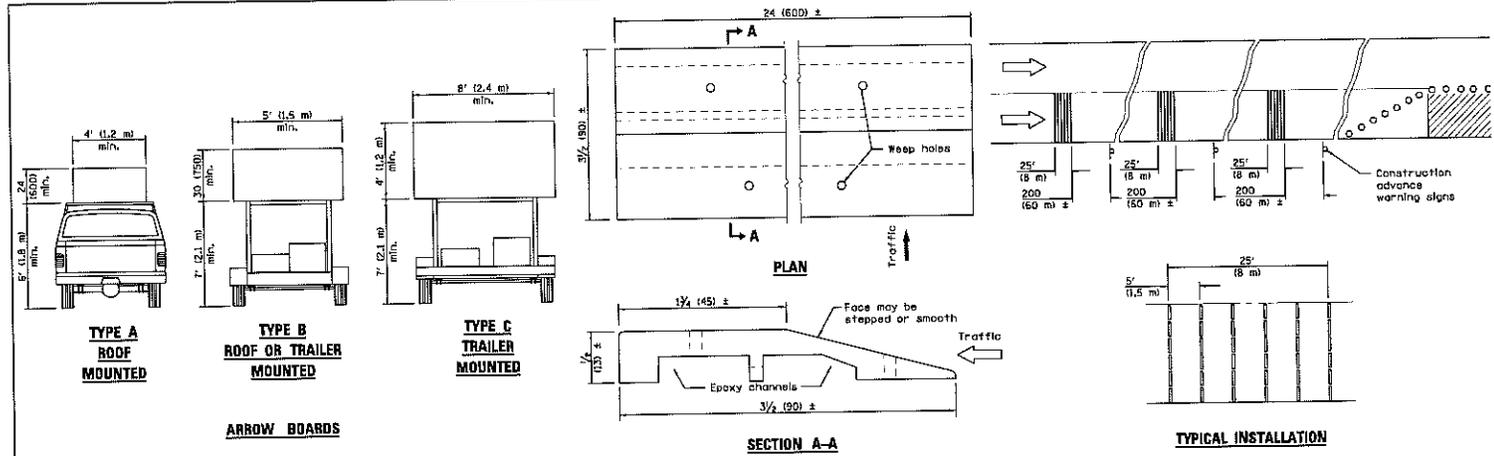
APPROVED: [Signature] JANUARY 3, 2015

CHIEF OF DESIGN AND ENGINEERING

**TRAFFIC CONTROL DEVICES**

(Sheet 2 of 3)

STANDARD 701901-04

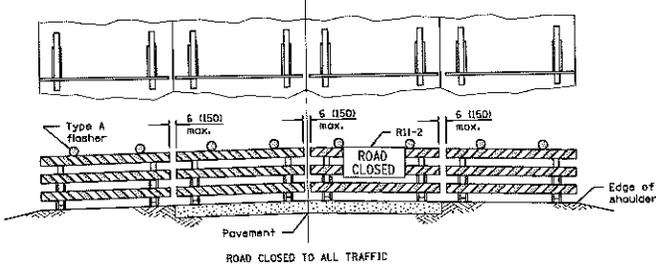


**ARROW BOARDS**

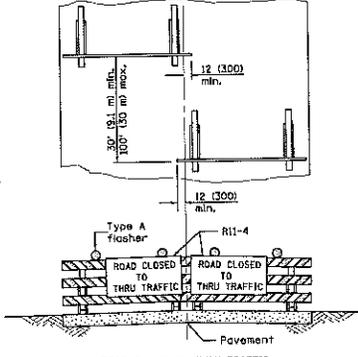
**SECTION A-A**

**TEMPORARY RUMBLE STRIPS**

**TYPICAL INSTALLATION**



ReflectORIZED striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



ReflectORIZED striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

Illinois Department of Transportation

APPROVED: [Signature] 2015  
 ENGINEER OF OPERATIONS

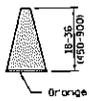
APPROVED: [Signature] 2015  
 PROJECT ENGINEER

**TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD**

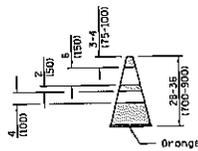
**TRAFFIC CONTROL DEVICES**

STANDARD 701901-04

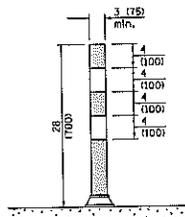
(Sheet 3 of 3)



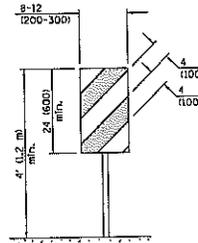
**CONE**



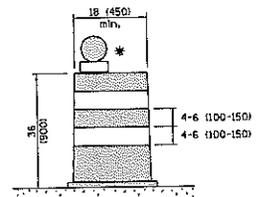
**REFLECTORIZED CONE**



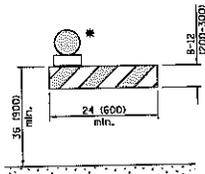
**FLEXIBLE DELINEATOR**



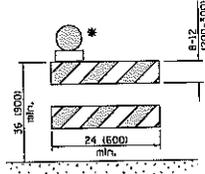
**VERTICAL PANEL  
POST MOUNTED**



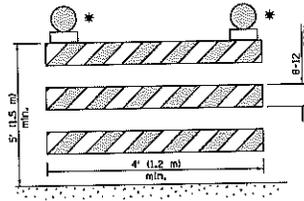
**DRUM**



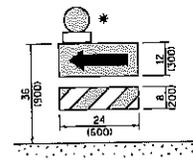
**TYPE I BARRICADE**



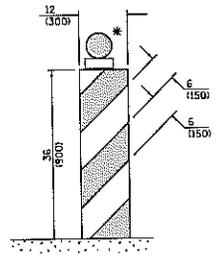
**TYPE II BARRICADE**



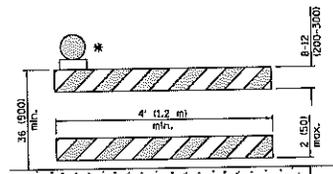
**TYPE III BARRICADE**



**DIRECTION INDICATOR  
BARRICADE**



**VERTICAL BARRICADE**



**DETECTABLE PEDESTRIAN  
CHANNELIZING BARRICADE**

\* Warning lights (if required)

**GENERAL NOTES**  
All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-15	Revised two sign numbers on sheet 2. Added note req. PHOTO ENFORCED plaque.
1-1-14	Mod/Hoa flagger sign height. Added highway construction speed zone signs.

**TRAFFIC CONTROL  
DEVICES**

(Sheet 1 of 3)

**STANDARD 701901-04**

Florida Department of Transportation

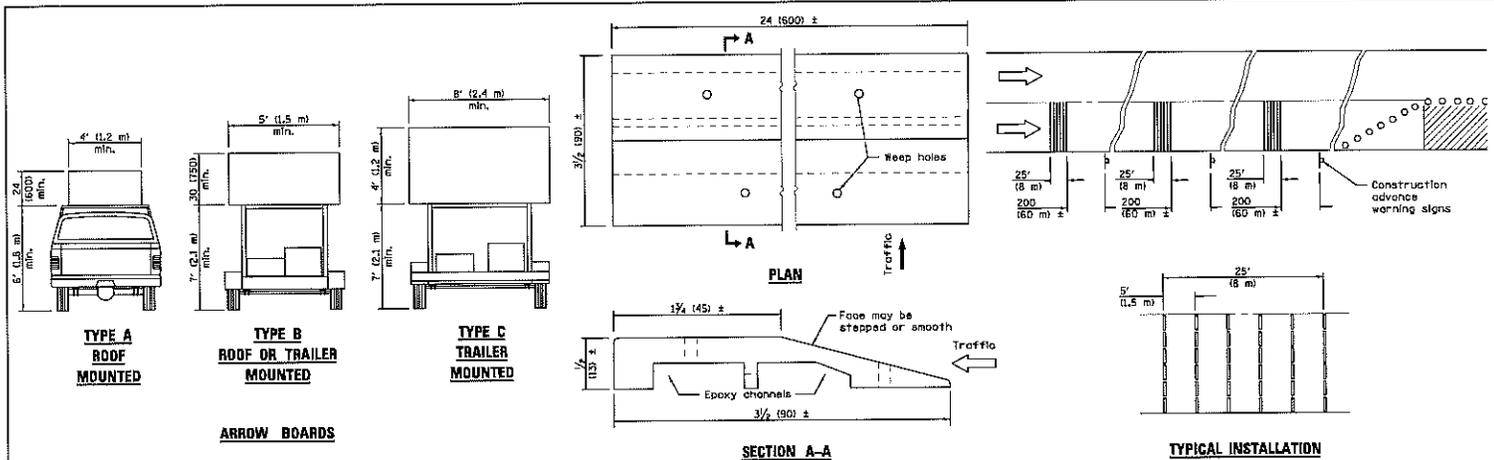
APPROVED: January 11, 2015

ENGINEER OF OPERATIONS

APPROVED: January 11, 2015

PROJECT: 2015-001



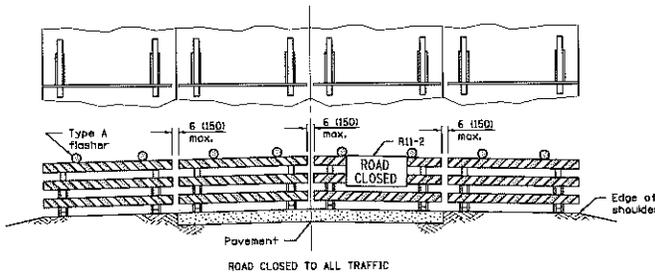


**ARROW BOARDS**

**SECTION A-A**

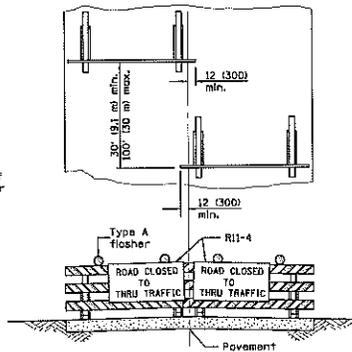
**TYPICAL INSTALLATION**

**TEMPORARY RUMBLE STRIPS**



**ROAD CLOSED TO ALL TRAFFIC**

Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



**ROAD CLOSED TO THRU TRAFFIC**

Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

**TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD**

**TRAFFIC CONTROL DEVICES**

(Sheet 3 of 3)

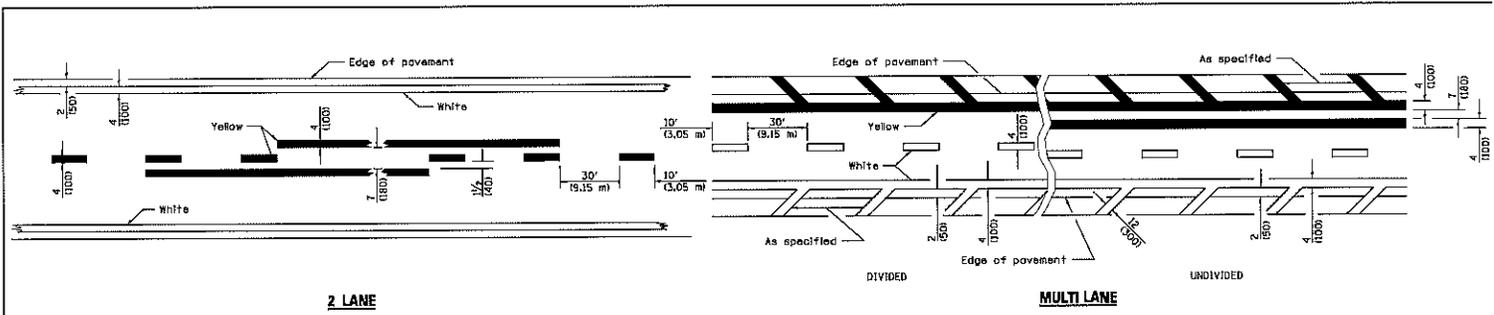
**STANDARD 701901-04**

Illinois Department of Transportation

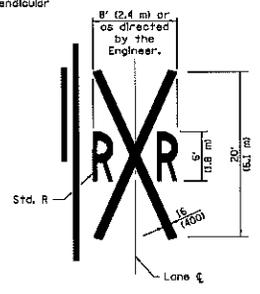
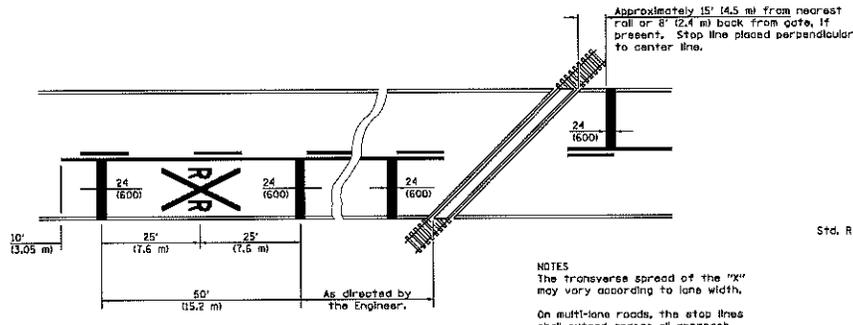
APPROVED: *[Signature]* January 3, 2015  
 SPECIALIST OF OPERATIONS

APPROVED: *[Signature]* January 3, 2015  
 ENGINEER OF DESIGN AND CONSTRUCTION

4.1.1 (02/02)



**LANE AND EDGE LINES**



**NOTES**  
 The transverse spread of the "RR" may vary according to lane width.  
 On multi-lane roads, the stop lines shall extend across all approach lanes and separate RR symbols shall be placed adjacent to each other in each lane.  
 When the pavement marking symbol is used, a portion of the symbol should be located directly adjacent to the Advance Warning Sign (W10-1) as placed by Table 20-4, Condition B of the MUTCD.

**PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING**

DATE	REVISIONS
1-1-15	Added symbols. Revised bike symbol. Revised note for stop line at RR crossing.
1-1-14	Added bike symbol. Renamed "LANE DROP ARROW" detail to "LANE-REDUCTION ARROW".

All dimensions are in inches (millimeter) unless otherwise shown.

**TYPICAL PAVEMENT MARKINGS**

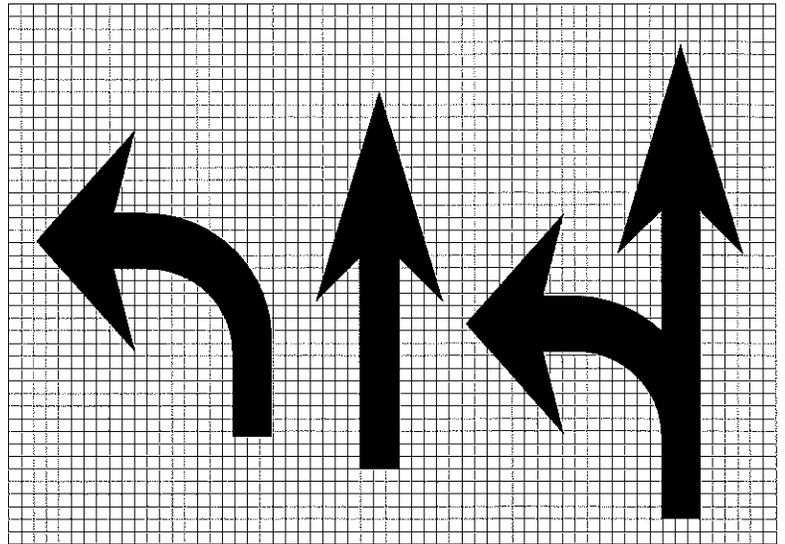
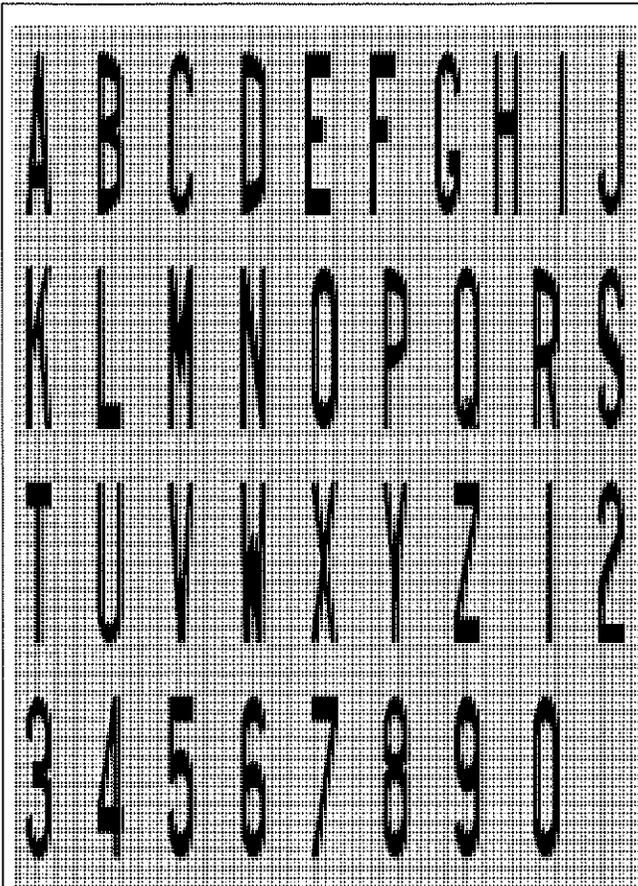
**STANDARD 780001-05**

(Sheet 1 of 3)

Illinois Department of Transportation

APPROVED: *[Signature]* 2015  
 ENGINEER OF OPERATIONS

APPROVED: *[Signature]* 2015  
 DIVISION OF TRANSPORTATION



Legend Height	Arrow Size	a
6' (1.8 m)	Small	2.9 (74)
8' (2.4 m)	Large	3.8 (96)

The space between adjacent letters or numerals should be approximately 3 (76) for 6' (1.8 m) legend and 4 (103) for 8' (2.4 m) legend.

**LETTER AND ARROW GRID SCALE**

Illinois Department of Transportation

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

ENGINEER OF OPERATIONS

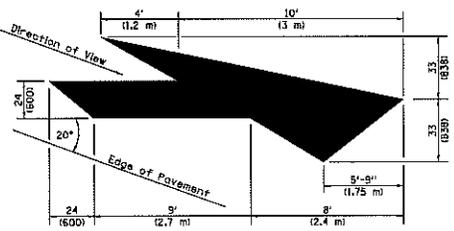
APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

ILLINOIS DEPARTMENT OF TRANSPORTATION

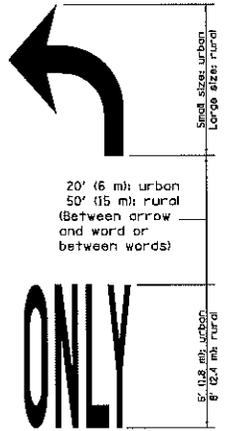
**TYPICAL PAVEMENT MARKINGS**

(Sheet 2 of 3)

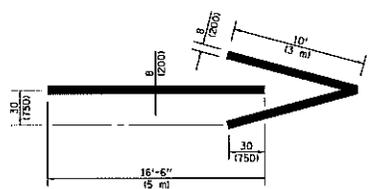
**STANDARD 788001-05**



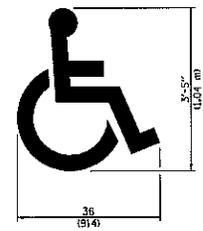
**LANE-REDUCTION ARROW**  
 Right lane-reduction arrow shown.  
 Use mirror image for left lane.



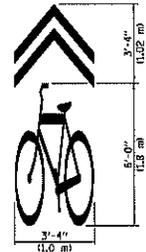
**WORD AND ARROW LAYOUT**



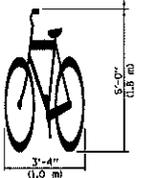
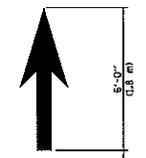
**WRONG WAY ARROW**



**INTERNATIONAL SYMBOL OF ACCESSIBILITY**



**SHARED LANE SYMBOL**



**BIKE SYMBOL**  
 (Arrow is optional)

Illinois Department of Transportation  
 APPROVED: [Signature] January 3, 2015  
 LEGALITY OF SPECIFICATIONS  
 APPROVED: [Signature] January 3, 2015  
 ENGINEER OF RECORD AND FURNISHING

**TYPICAL PAVEMENT MARKINGS**  
 (Sheet 3 of 3)  
**STANDARD 780001-05**

removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

#### CERAMIC TILE FINISHER

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

#### COMMUNICATIONS ELECTRICIAN

Installation, operation, inspection, maintenance, repair and service of radio, television, recording, voice sound vision production and reproduction, telephone and telephone interconnect, facsimile, data apparatus, coaxial, fibre optic and wireless equipment, appliances and systems used for the transmission and reception of signals of any nature, business, domestic, commercial, education, entertainment, and residential purposes, including but not limited to, communication and telephone, electronic and sound equipment, fibre optic and data communication systems, and the performance of any task directly related to such installation or service whether at new or existing sites, such tasks to include the placing of wire and cable and electrical power conduit or other raceway work within the equipment room and pulling wire and/or cable through conduit and the installation of any incidental conduit, such that the employees covered hereby can complete any job in full.

#### MARBLE FINISHER

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

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

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

#### OPERATING ENGINEER - BUILDING

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

## Trenching Machines.

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

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

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

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

## OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

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

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

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

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

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

Class 6. Field Mechanics and Field Welders

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

#### OPERATING ENGINEER - FLOATING

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

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

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

Slip/Dock, or Scow, Deck Machinery, etc.

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

Class 5. Friction or Lattice Boom Cranes.

Class 6. ROV Pilot, ROV Tender

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

#### TERRAZZO FINISHER

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

#### TRAFFIC SAFETY

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

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

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

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

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

trucks, 1-man operation; Winch trucks, 3 axles or more;  
Mechanic--Truck Welder and Truck Painter.

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

#### Other Classifications of Work:

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

#### LANDSCAPING

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

#### MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

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

# Du Page County Prevailing Wage for July 2015

(See explanation of column headings at bottom of wages)

Trade Name	RG	TYP	C	Base	FRMAN	M-F>8	OSA	OSH	H/W	Pensn	Vac	Trng
ASBESTOS ABT-GEN		ALL		39.400	39.950	1.5	1.5	2.0	13.98	11.28	0.000	0.500
ASBESTOS ABT-MEC		BLD		36.340	38.840	1.5	1.5	2.0	11.47	10.96	0.000	0.720
BOILERMAKER		BLD		47.070	51.300	2.0	2.0	2.0	6.970	18.13	0.000	0.400
BRICK MASON		BLD		43.780	48.160	1.5	1.5	2.0	10.05	14.43	0.000	1.030
CARPENTER		ALL		44.350	46.350	1.5	1.5	2.0	13.29	16.39	0.000	0.630
CEMENT MASON		ALL		43.750	45.750	2.0	1.5	2.0	13.05	14.45	0.000	0.480
CERAMIC TILE FNSHER		BLD		36.810	0.000	1.5	1.5	2.0	10.55	9.230	0.000	0.770
COMMUNICATION TECH		BLD		32.650	34.750	1.5	1.5	2.0	9.550	15.16	1.250	0.610
ELECTRIC PWR EQMT OP		ALL		37.890	51.480	1.5	1.5	2.0	5.000	11.75	0.000	0.380
ELECTRIC PWR EQMT OP		HWY		39.220	53.290	1.5	1.5	2.0	5.000	12.17	0.000	0.390
ELECTRIC PWR GRNDMAN		ALL		29.300	51.480	1.5	1.5	2.0	5.000	9.090	0.000	0.290
ELECTRIC PWR GRNDMAN		HWY		30.330	53.290	1.5	1.5	2.0	5.000	9.400	0.000	0.300
ELECTRIC PWR LINEMAN		ALL		45.360	51.480	1.5	1.5	2.0	5.000	14.06	0.000	0.450
ELECTRIC PWR LINEMAN		HWY		46.950	53.290	1.5	1.5	2.0	5.000	14.56	0.000	0.470
ELECTRIC PWR TRK DRV		ALL		30.340	51.480	1.5	1.5	2.0	5.000	9.400	0.000	0.300
ELECTRIC PWR TRK DRV		HWY		31.400	53.290	1.5	1.5	2.0	5.000	9.730	0.000	0.310
ELECTRICIAN		BLD		38.160	41.980	1.5	1.5	2.0	9.550	18.29	4.680	0.680
ELEVATOR CONSTRUCTOR		BLD		50.800	57.150	2.0	2.0	2.0	13.57	14.21	4.060	0.600
FENCE ERECTOR	NE	ALL		37.340	39.340	1.5	1.5	2.0	13.05	12.06	0.000	0.300
FENCE ERECTOR	W	ALL		45.060	48.660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
GLAZIER		BLD		40.500	42.000	1.5	2.0	2.0	13.14	16.99	0.000	0.940
HT/FROST INSULATOR		BLD		48.450	50.950	1.5	1.5	2.0	11.47	12.16	0.000	0.720
IRON WORKER	E	ALL		44.200	46.200	2.0	2.0	2.0	13.65	21.14	0.000	0.350
IRON WORKER	W	ALL		45.060	48.660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
LABORER		ALL		39.200	39.950	1.5	1.5	2.0	13.98	10.72	0.000	0.500
LATHER		ALL		44.350	46.350	1.5	1.5	2.0	13.29	16.39	0.000	0.630
MACHINIST		BLD		45.350	47.850	1.5	1.5	2.0	7.260	8.950	1.850	0.000
MARBLE FINISHERS		ALL		31.400	32.970	1.5	1.5	2.0	9.850	13.10	0.000	0.600
MARBLE MASON		BLD		43.030	47.330	1.5	1.5	2.0	10.05	14.10	0.000	0.780
MATERIAL TESTER I		ALL		29.200	0.000	1.5	1.5	2.0	13.98	10.72	0.000	0.500
MATERIALS TESTER II		ALL		34.200	0.000	1.5	1.5	2.0	13.98	10.72	0.000	0.500
MILLWRIGHT		ALL		44.350	46.350	1.5	1.5	2.0	13.29	16.39	0.000	0.630
OPERATING ENGINEER		BLD 1		48.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 2		46.800	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 3		44.250	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 4		42.500	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 5		51.850	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 6		49.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 7		51.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		FLT		36.000	36.000	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		HWY 1		46.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 2		45.750	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 3		43.700	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 4		42.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 5		41.100	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 6		49.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 7		47.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
ORNAMNTL IRON WORKER E		ALL		43.900	46.400	2.0	2.0	2.0	13.36	17.24	0.000	0.650
ORNAMNTL IRON WORKER W		ALL		45.060	48.660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
PAINTER		ALL		41.730	43.730	1.5	1.5	1.5	10.30	8.200	0.000	1.350
PAINTER SIGNS		BLD		33.920	38.090	1.5	1.5	1.5	2.600	2.710	0.000	0.000
PILEDRIIVER		ALL		44.350	46.350	1.5	1.5	2.0	13.29	16.39	0.000	0.630

PIPEFITTER		BLD	46.000	49.000	1.5	1.5	2.0	9.000	15.85	0.000	1.780
PLASTERER		BLD	41.250	43.760	1.5	1.5	2.0	9.700	13.08	0.000	0.980
PLUMBER		BLD	46.650	48.650	1.5	1.5	2.0	13.18	11.46	0.000	0.880
ROOFER		BLD	41.000	44.000	1.5	1.5	2.0	8.280	10.54	0.000	0.530
SHEETMETAL WORKER		BLD	44.720	46.720	1.5	1.5	2.0	10.65	13.31	0.000	0.820
SPRINKLER FITTER		BLD	49.200	51.200	1.5	1.5	2.0	11.75	9.650	0.000	0.550
STEEL ERECTOR	E	ALL	42.070	44.070	2.0	2.0	2.0	13.45	19.59	0.000	0.350
STEEL ERECTOR	W	ALL	45.060	48.660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
STONE MASON		BLD	43.780	48.160	1.5	1.5	2.0	10.05	14.43	0.000	1.030
SURVEY WORKER		ALL	37.000	37.750	1.5	1.5	2.0	12.97	9.930	0.000	0.500
TERRAZZO FINISHER		BLD	38.040	0.000	1.5	1.5	2.0	10.55	11.22	0.000	0.720
TERRAZZO MASON		BLD	41.880	44.880	1.5	1.5	2.0	10.55	12.51	0.000	0.940
TILE MASON		BLD	42.840	46.840	1.5	1.5	2.0	10.55	10.42	0.000	0.920
TRAFFIC SAFETY WRKR		HWY	32.750	34.350	1.5	1.5	2.0	6.550	6.450	0.000	0.500
TRUCK DRIVER		ALL 1	35.920	36.120	1.5	1.5	2.0	8.280	8.760	0.000	0.150
TRUCK DRIVER		ALL 2	32.700	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.150
TRUCK DRIVER		ALL 3	32.900	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.150
TRUCK DRIVER		ALL 4	33.100	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.150
TUCKPOINTER		BLD	42.620	43.620	1.5	1.5	2.0	10.05	13.34	0.000	0.670

Legend: RG (Region)

TYP (Trade Type - All, Highway, Building, Floating, Oil & Chip, Rivers)

C (Class)

Base (Base Wage Rate)

FRMAN (Foreman Rate)

M-F>8 (OT required for any hour greater than 8 worked each day, Mon through Fri.)

OSA (Overtime (OT) is required for every hour worked on Saturday)

OSH (Overtime is required for every hour worked on Sunday and Holidays)

H/W (Health & Welfare Insurance)

Pensn (Pension)

Vac (Vacation)

Trng (Training)

## Explanations

### DUPAGE COUNTY

IRON WORKERS AND FENCE ERECTOR (WEST) - West of Route 53.

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

### EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from

ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

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

#### CERAMIC TILE FINISHER

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

#### COMMUNICATIONS TECHNICIAN

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

#### MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all material that may be

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

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

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

#### OPERATING ENGINEER - BUILDING

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

Class 2. Boilers; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks;

Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Inside Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Screed; Rock Drill (Self-Propelled); Rock Drill (Truck Mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

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

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

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

#### OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

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

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with

attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

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

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

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

Class 6. Field Mechanics and Field Welders

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

#### OPERATING ENGINEER - FLOATING

Diver. Diver Wet Tender, Diver Tender, ROV Pilot, ROV Tender

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

#### TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

Class 1. Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement

Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamsters; Unskilled Dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

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

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

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

#### TERRAZZO FINISHER

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

#### Other Classifications of Work:

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

#### LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape

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

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

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

State of Illinois  
Department of Transportation  
Bureau of Local Roads and Streets  
SPECIAL PROVISION  
FOR  
CONSTRUCTION AND MAINTENANCE SIGNS

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

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

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

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

ABV ABOVE  
 A/C ACCESS CONTROL  
 AC ACRE  
 ADJ ADJUST  
 AS AERIAL SURVEYS  
 AGG AGGREGATE  
 AH AHEAD  
 APT APARTMENT  
 ASPH ASPHALT  
 AUX AUXILIARY  
 AGS AUXILIARY GAS VALVE (SERVICE)  
 AVE AVENUE  
 AX AXIS OF ROTATION  
 BK BACK  
 B-B BACK TO BACK  
 BKPL BACKPLATE  
 B BARR  
 BARR BARRICADE  
 BON BEGIN  
 BM BENCHMARK  
 BIND BINDER  
 BIT BITUMINOUS  
 BTM BOTTOM  
 BLVD BOULEVARD  
 BRK BRICK  
 BROX BUFFALO BOX  
 BLDG BUILDING  
 CIP CAST IRON PIPE  
 CB CATCH BASIN  
 C-C CENTER TO CENTER  
 CL CENTERLINE OR CLEARANCE  
 CL-E CENTERLINE TO EDGE  
 CL-F CENTERLINE TO FACE  
 CTS CENTERS  
 CERT CERTIFIED  
 CHSLD CHISELED  
 CT COAT OR COURT  
 CS CLAY PIPE  
 CLSD CLOSED  
 CLID CLOSED LID  
 COAT COAT OR COURT  
 COMB COMBINATION  
 C COMMERCIAL BUILDING  
 CC CONCRETE  
 CONST CONSTRUCT  
 CONTD CONTINUED  
 CONT CONTINUOUS  
 COR CORNER  
 CORR CORRUGATED  
 CMP CORRUGATED METAL PIPE  
 CNTY COUNTY  
 CH COUNTY HIGHWAY  
 CSE COURSE  
 XSECT CROSS SECTION  
 m<sup>3</sup> CUBIC METER  
 mm<sup>3</sup> CUBIC MILLIMETER

CU YD CUBIC YARD  
 CULV CULVERT  
 CAC CURB & GUTTER  
 D DEGREE OF CURVE  
 DC DEPRESSED CURVE  
 DET DETECTOR  
 DIA DIAMETER  
 DIST DISTRICT  
 DOM DOMESTIC  
 DBL DOUBLE  
 DSEL DOWNSTREAM ELEVATION  
 DSFL DOWNSTREAM FLOWLINE  
 DR DRAINAGE OR DRIVE  
 DI DRAINAGE INLET OR DROP INLET  
 DRV DRIVEWAY  
 DCT DUCT  
 EA EACH  
 EB EASTBOUND  
 EOP EDGE OF PAVEMENT  
 E-CL EDGE TO CENTERLINE  
 E-E EDGE TO EDGE  
 EL ELEVATION  
 ENTR ENTRANCE  
 EXC EXCAVATION  
 EX EXISTING  
 EXPWY EXPRESSWAY  
 E EXTERNAL DISTANCE OF HORIZONTAL CURVE  
 E OFFSET DISTANCE TO VERTICAL CURVE  
 F-F FACE TO FACE  
 FA FEDERAL AID  
 FAI FEDERAL AID INTERSTATE  
 FAP FEDERAL AID PRIMARY  
 FAS FEDERAL AID SECONDARY  
 FAUS FEDERAL AID URBAN SECONDARY  
 FP FENCE POST  
 FE FIELD ENTRANCE  
 FH FIRE HYDRANT  
 FL FLOW LINE  
 FB FOOT BRIDGE  
 FDN FOUNDATION  
 FR FRAME  
 FAG FRAME & GRATE  
 FRWAY FREEWAY  
 GAL GALLON  
 GALV GALVANIZED  
 G GARAGE  
 GM GAS METER  
 GV GAS VALVE  
 GRAN GRANULAR  
 GR GRATE  
 GRVL GRAVEL  
 GRD GROUND  
 GUT GUTTER  
 GP GUY POLE  
 GW GUY WIRE  
 H HANDHOLE  
 HATCH HATCHING

HD HEAD  
 HDW HEADWALL  
 HDUTY HEAVY DUTY  
 HG HECTARE  
 HMA HOT MIX ASPHALT  
 HWY HIGHWAY  
 HORIZ HORIZONTAL  
 ILL ILLINOIS  
 IMP IMPROVEMENT  
 IN DIA INCH DIAMETER  
 INLET INLET  
 INST INSTALLATION  
 IDS INTERSECTION DESIGN STUDY  
 INV INVERT  
 IP IRON PIPE  
 IR IRON ROD  
 JT JOINT  
 KIL KILOGRAM  
 KM KILOMETER  
 LS LANDSCAPING  
 LN LANE  
 LT LEFT  
 LP LIGHT POLE  
 LGT LIGHTING  
 LF LINEAL FEET OR LINEAR FEET  
 L LITER OR CURVE LENGTH  
 LC LONG CHORD  
 LNG LONGITUDINAL  
 L SUM LUMP SUM  
 MACH MACHING  
 MB MAIL BOX  
 MH MANHOLE  
 MATL MATERIAL  
 MED MEDIAN  
 M METER  
 METH METHOD  
 M MID-ORDINATE  
 mm MILLIMETER  
 mm DIA MILLIMETER DIAMETER  
 MIX MIXTURE  
 MOBILE MOBILE HOME  
 MFT MOTOR FUEL TANK  
 N & C NAIL & BOTTLE CAP  
 N & W NAIL & WASHER  
 NDA NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION  
 NC NORMAL CROWN  
 NB NORTHBOUND  
 NE NORTHEAST  
 NN NORTHWEST  
 OLID OPEN LID  
 PAT PATTERN  
 PVD PAVED  
 PVMT PAVEMENT  
 PM PAVEMENT MARKING

PEDESTAL  
 PAT POINT  
 PC POINT OF CURVATURE  
 PI POINT OF INTERSECTION OF HORIZONTAL CURVE  
 PRC POINT OF REVERSE CURVE  
 PT POINT OF TANGENCY  
 POT POINT ON TANGENT  
 POLYETH POLYETHYLENE  
 PCC PORTLAND CEMENT CONCRETE  
 PP POWER POLE OR PRINCIPAL POINT  
 PRM PRIME  
 PE PRIVATE ENTRANCE  
 PROF PROFILE  
 PGL PROFILE GRADELINE  
 PROJ PROJECT  
 P.C. PROPERTY CORNER  
 PL PROPERTY LINE  
 PR PROPOSED  
 R RADIUS  
 RR RAILROAD  
 RRS RAILROAD SPIKE  
 RPS REFERENCE POINT STAKE  
 REF REFLECTIVE  
 RCCP REINFORCED CONCRETE CULVERT PIPE  
 REINF REINFORCEMENT  
 REM REMOVAL  
 RC REMOVE CROWN  
 REP REPLACEMENT  
 REST RESTAURANT  
 RESURF RESURFACING  
 RET RETAINING  
 RT RIGHT  
 ROB RIGHT-OF-WAY  
 ROAD ROAD  
 RDY ROADWAY  
 RTE ROUTE  
 SAN SANITARY  
 SANS SANITARY SEWER  
 SEC SECTION  
 SEED SEEDING  
 SHAP SHAPING  
 S SHED  
 SH SHEET  
 SHLD SHOULDER  
 SW SIDEWALK OR SOUTHWEST  
 SIG SIGNAL  
 SOD SODDING  
 SM SOLID MEDIUM  
 SB SOUTHBOUND  
 SE SOUTHEAST  
 SPL SPECIAL  
 SD SPECIAL DITCH  
 SQ FT SQUARE FEET  
 m<sup>2</sup> SQUARE METER  
 mm<sup>2</sup> SQUARE MILLIMETER  
 SQ YD SQUARE YARD  
 STB STABILIZED

STD STANDARD  
 SBI STATE BOND ISSUE  
 SR STATE ROUTE  
 STA STATION  
 SPBGR STEEL PLATE BEAM GUARDRAIL  
 SS STORM SEWER  
 STY STORY  
 STR STREET  
 STR STRUCTURE  
 SURF SUPERELEVATION RATE  
 S.E. RUN, SURF SUPERELEVATION RUNOFF LENGTH  
 SURF SURFACE  
 SMK SURVEY MARKER  
 T TANGENT DISTANCE  
 T.R. TANGENT RUNOUT DISTANCE  
 TEL TELEPHONE  
 TB TELEPHONE BOX  
 TP TELEPHONE POLE  
 TEMP TEMPORARY  
 TBM TEMPORARY BENCH MARK  
 TD TILE DRAIN  
 TBE TO BE EXTENDED  
 TBR TO BE REMOVED  
 TBS TO BE SAVED  
 TWP TOWNSHIP  
 TR TOWNSHIP ROAD  
 TS TRAFFIC SIGNAL  
 TSCB TRAFFIC SIGNAL CONTROL BOX  
 TSC TRAFFIC SYSTEMS CENTER  
 TRNS TRANSVERSE  
 TRVL TRAVEL  
 TRN TURN  
 TY TYPE  
 T-A TYPE A  
 TYP TYPICAL  
 UNDERG UNDERGROUND  
 USGS U.S. GEOLOGICAL SURVEY  
 USEL UPSTREAM ELEVATION  
 USFL UPSTREAM FLOWLINE  
 UTIL UTILITY  
 VBOX VALVE BOX  
 VV VALVE VAULT  
 VLT VAULT  
 VEH VEHICLE  
 VP VENT PIPE  
 VERT VERTICAL  
 VC VERTICAL CURVE  
 VPC VERTICAL POINT OF CURVATURE  
 VPI VERTICAL POINT OF INTERSECTION  
 VPT VERTICAL POINT OF TANGENCY  
 WM WATER METER  
 WY WATER VALVE  
 WMAIN WATER MAIN  
 WB WESTBOUND  
 WDFL WILDFLOWERS  
 W WITH  
 WD WITHOUT

Illinois Department of Transportation  
 PASSED January 11, 2011  
 Michael Powell  
 ENGINEER OF WATER AND SEWERAGE  
 APPROVED January 11, 2011  
 DEPARTMENT OF DESIGN AND CONSTRUCTION

DATE	REVISIONS	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS <small>(Sheet 1 of 8)</small>
1-1-11	Updated abbreviations and symbols.	
1-1-08	Updated abbreviations and symbols.	

STANDARD 000001-06

ADJUSTMENT ITEMS		EX	PR	ALIGNMENT ITEMS		EX	PR	CONTOUR ITEMS		EX	PR
Structure To Be Adjusted			ADJ	Baseline				Approx. Index Line			
Structure To Be Cleaned			C	Centerline				Approx. Intermediate Line			
Main Structure To Be Filled			FM	Centerline Break Circle	○		○	Index Contour			
Structure To Be Filled			F	Baseline Symbol				Intermediate Contour			
Structure To Be Filled Special			FSP	Centerline Symbol				<b>DRAINAGE ITEMS</b>		<b>EX</b>	<b>PR</b>
Structure To Be Removed			R	PI Indicator	▲		▲	Channel or Stream Line			
Structure To Be Reconstructed			REC	Point Indicator	○		○	Culvert Line			
Structure To Be Reconstructed Special			RSP	Horizontal Curve Data (Half Size)	CURVE P.I. STA# Δ° D° R° T° L° E° q° T.L.R. S.E. RUN° P.C. STA° P.T. STA°		CURVE P.I. STA# Δ° D° R° T° L° E° q° T.L.R. S.E. RUN° P.C. STA° P.T. STA°	Grading & Shaping Ditches			
Frame and Grate To Be Adjusted			A	<b>BOUNDARIES ITEMS</b>		<b>EX</b>	<b>PR</b>	Drainage Boundary Line			
Frame and Lid To Be Adjusted			A	Dashed Property Line				Paved Ditch			
Domestic Service Box To Be Adjusted			A	Solid Property/Lot Line				Aggregate Ditch			
Valve Vault To Be Adjusted			A	Section/Grant Line				Pipe Underdrain			
Special Adjustment			SP	Quarter/Grant Line				Storm Sewer			
Item To Be Abandoned			AB	Quarter/Quarter Section Line				Flowline			
Item To Be Moved			M	Quarter/Quarter Section Line				Ditch Check			
Item To Be Relocated			REL	County/Township Line				Headwall			
Pavement Removal and Replacement				State Line				Inlet			
				Iron Pipe Found	○		○	Manhole			
				Iron Pipe Set	●		●	Summit			
				Survey Marker				Roadway Ditch Flow			
				Property Line Symbol				Slope			
				Same Ownership Symbol (Half Size)				Catch Basin			
				Northwest Quarter Corner (Half Size)				Culvert End Section			
				Section Corner (Half Size)				Water Surface Indicator			
				Southeast Quarter Corner (Half Size)				Riprap			

**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**  
(Sheet 2 of 8)

**STANDARD 000001-06**

Illinois Department of Transportation  
 PASSED January 3, 2001  
 ENGINEER OF POLICY AND PROCEDURES  
 APPROVED January 3, 2001  
 ENGINEER OF DESIGN AND ENVIRONMENT

<b>EROSION &amp; SEDIMENT CONTROL ITEMS</b>	<b>EX</b>	<b>PR</b>
Cleaning & Grading Limits	---	---
Dike	~~~~~	~~~~~
Erosion Control Fence	~~~~~	~~~~~
Perimeter Erosion Barrier	~~~~~	~~~~~
Temporary Fence	---	---
Ditch Check Temporary	◇	◇
Ditch Check Permanent	◆	◆
Inlet & Pipe Protection	◇	◇
Sediment Basin	○	○
Erosion Control Blanket	▨	▨
Fabric Formed Concrete Revetment Mat	▨	▨
Turf Reinforcement Mat	▨	▨
Mulch Temporary	▨	▨
Mulch Method 1	▨	▨
Mulch Method 2 Stabilized	▨	▨
Mulch Method 3 Hydraulic	▨	▨

<b>NON-HIGHWAY IMPROVEMENT ITEMS</b>	<b>EX</b>	<b>PR</b>
Noise Att'n/Leeve	▬	▬
Field Line	---	---
Fence	---	---
Base of Levee	▬	▬
Mailbox	▽	▽
Multiple Mailboxes	▽	▽
Pay Telephone	□	□
Advertising Sign	▽	▽
<b>LANDSCAPING ITEMS</b>	<b>EX</b>	<b>PR</b>
Contour Mounding Line	---	---
Fence	---	---
Fence Post	•	•
Shrubs	▬	▬
Mowline	▬	▬
Perennial Plants	▨	▨
Seeding Class 2	▨	▨
Seeding Class 2A	▨	▨
Seeding Class 4	▨	▨
Seeding Class 4 & 5 Combined	▨	▨

<b>EXISTING LANDSCAPING ITEMS (cont.)</b>	<b>EX</b>	<b>PR</b>
Seeding Class 5	▨	▨
Seeding Class 7	▨	▨
Seedlings Type 1	▨	▨
Seedlings Type 2	▨	▨
Sodding	▨	▨
Mowstake w/Sign	▬	▬
Tree Trunk Protection	○	○
Evergreen Tree	⊕	⊕
Shade Tree	⊕	⊕
<b>LIGHTING</b>	<b>EX</b>	<b>PR</b>
Duct	---	---
Conduit	---	---
Electrical Aerial Cable	---	---
Electrical Buried Cable	---	---
Controller	□	□
Underpass Luminaire	□	□
Power Pole	□	□

Missouri Department of Transportation  
 PASSED January 3, 2011  
 ENGINEER OF POLICY AND PROCEDURES  
 APPROVED January 3, 2011  
 ENGINEER OF DESIGN AND ENVIRONMENT

**STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS**  
 (Sheet 3 of 8)  
 STANDARD 000001-06

**LIGHTING**  
**(contd.)**

	EX	PR
Pull Point		
Handhole		
Heavy Duty Handhole		
Junction Box		
Light Unit Comb.		
Electrical Ground		
Traffic Flow Arrow		
High Mast Pole (Half Size)		
Light Unit-1		

**PAVEMENT (MISC.)**

	EX	PR
Keyed Long. Joint		
Keyed Long. Joint w/Tie Bars		
Sawed Long. Joint w/Tie Bars		
Bituminous Shoulder		
Bituminous Taper		
Stabilized Driveway		
Widening		

**PAVEMENT MARKINGS**

	EX	PR
Bike Lane Symbol		
Bike Lane Text		
Handicap Symbol		
RR Crossing		
Raised Marker Amber 1 Way		
Raised Marker Amber 2 Way		
Raised Marker Crystal 1 Way		
Two Way Turn Left		
Shoulder Diag. Pattern		
Skip-Dash White		
Skip-Dash Yellow		
Stop Line		
Solid Line		
Double Centerline		
Dotted Lines		
CL 2Ln 2Way RRPM 12.2 m (40') o.c.		
CL 2Ln 2Way RRPM 80' (24.4 m) o.c.		
CL Multilane Div. RRPM 40' (12.2 m) o.c.		
CL Multilane Div. RRPM 80' (24.4 m) o.c.		
CL Multilane Div. Dbl. RRPM 80' (24.4 m) o.c.		
CL Multilane Undiv.		
Two Way Turn Left Line		

Ontario Department of Transportation  
 PASSED:                      2/11  
 ENGINEER: Michael B. Boyd  
 APPROVED:                      2/11  
 PROFESSIONAL SOCIETY:                     

**STANDARD SYMBOLS,  
 ABBREVIATIONS  
 AND PATTERNS**  
 (Sheet 4 of 8)  
**STANDARD 000001-06**

**PAVEMENT MARKINGS**  
(cont'd.)

- Urban Combination Left
- Urban Combination Right
- Urban Left Turn Arrow
- Urban Right Turn Arrow
- Urban Left Turn Only
- Urban Right Turn Only
- Urban Thru Only
- Urban U-Turn
- Urban Combined U-Turn
- Rural Combination Left
- Rural Combination Right
- Rural Left Turn Arrow
- Rural Right Turn Arrow
- Rural Left Turn Only
- Rural Right Turn Only
- Rural Thru Only

**EX**

**PR**

ONLY ONLY ONLY

ONLY ONLY ONLY

**RAILROAD ITEMS**

**EX**

**PR**

- Abandoned Railroad
- Railroad
- Railroad Point
- Control Box
- Crossing Gate
- Flashing Signal
- Railroad Cont. Mast Arm
- Crossbuck

**REMOVAL ITEMS**

**EX**

**PR**

- Removal Tic
- Bituminous Removal
- Hatch Pattern
- Tree Removal Single

**RIGHT OF WAY ITEMS**

**EX**

**PR**

- Future ROW Corner Monument
- ROW Marker
- ROW Line
- Easement
- Temporary Easement

Illinois Department of Transportation	
PASSED	January 1, 2011
 ENGINEER OF POLICY AND REGULATORY AFFAIRS	
APPROVED	January 1, 2011
 DIRECTOR OF POLICY AND ENVIRONMENT	

**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**

(Sheet 5 of 8)

STANDARD 000001-06

<b>RIGHT OF WAY ITEMS</b> <i>(contd.)</i>	<b>EX</b>	<b>PR</b>
Access Control Line	— AC —	— AC —
Access Control Line & ROW	— AC —	— AC —
Access Control Line & ROW with Fence	— AR —	— AC —
Excess ROW Line		— XS —
<b>ROADWAY PLAN ITEMS</b>		
	<b>EX</b>	<b>PR</b>
Cable Barrier	— ○ —	— ● —
Concrete Barrier	— ▬ —	— ▬ —
Edge of Pavement	— - - -	— - - -
Bit Shoulders, Medians and C&G Line	— - - -	— - - -
Aggregate Shoulder	— - - -	— - - -
Sidewalks, Driveways	— - - -	— - - -
Guardrail	— ▬ —	— ▬ —
Guardrail Post	○	○
Traffic Sign	⊥	⊥
Corrugated Median	▬ ▬ ▬ ▬	▬ ▬ ▬ ▬
Impact Attenuator	○ ○ ○ ○	○ ○ ○ ○
North Arrow with District Office (Half Size)	↑	
Marking Line		— STA. 45+00 —
Stop Limit Line	— - - -	
Typical Cross-Section Line	— - - -	— - - -

<b>ROADWAY PROFILES</b>	<b>EX</b>	<b>PR</b>
P.I. Indicator	▲	▲
Point Indicator	○	○
Earthworks Balance Point		⊙
Begin Point		⊙
Vert. Curve Data	VPI = ELEV =	VPI = ELEV =
Ditch Profile Left Side	— - - -	— - - -
Ditch Profile Right Side	— - - -	— - - -
Roadway Profile Line	— - - -	— - - -
Storm Sewer Profile Left Side	— - - -	— - - -
Storm Sewer Profile Right Side	— - - -	— - - -
<b>SIGNING ITEMS</b>		
	<b>EX</b>	<b>PR</b>
Cone, Drum or Barricade		○
Barricade Type II		▬ ▬ ▬ ▬
Barricade Type III		▬ ▬ ▬ ▬
Barricade With Edge Line		▬ ▬ ▬ ▬
Flashing Light Sign		○
Panel I		▬ ▬ ▬ ▬
Panel II		▬ ▬ ▬ ▬
Direction of Traffic		→
Sign Flag (Half Size)		◇

<b>SIGNING ITEMS</b> <i>(contd.)</i>	<b>EX</b>	<b>PR</b>
Reverse Left W1-4L (Half Size)		⊥
Reverse Right W1-4R (Half Size)		⊥
Two Way Traffic Sign W5-3 (Half Size)		⊥
Detour Ahead W20-210 (Half Size)		⊥
Left Lane Closed Ahead W20-5L10 (Half Size)		⊥
Right Lane Closed Ahead W20-5R10 (Half Size)		⊥
Road Closed Ahead W20-310 (Half Size)		⊥
Road Construction Ahead W20-110 (Half Size)		⊥
Single Lane Ahead (Half Size)		⊥
Transition Left W4-2L (Half Size)		⊥
Transition Right W4-2R (Half Size)		⊥

**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**  
(Sheet 6 of 8)

**STANDARD 00001-06**

Illinois Department of Transportation

PASSED January 2, 2011

ENGINEER OF POLICY AND PROCEDURES  
*Michael Deard*

APPROVED January 2, 2011

ENGINEER OF DESIGN AND ENVIRONMENT  
*Samuel...*



<u>TRAFFIC SIGNAL ITEMS (contd.)</u>	<u>EX</u>	<u>PR</u>
Detector Raceway		
Aluminum Mast Arm		
Steel Mast Arm		
Veh. Detector Magnetic		
Conduit Splice		
Controller		
Gulfbox Junction		
Wood Pole		
Temp. Signal Head		
Handhole		
Double Handhole		
Heavy Duty Handhole		
Junction Box		
Ped. Pushbutton Detector		
Ped. Signal Head		
Power Pole Service		
Priority Veh. Detector		
Signal Head		
Signal Head w/Backplate		
Signal Post		
Closed Circuit TV		
Video Detector System		

<u>UNDERGROUND UTILITY ITEMS</u>	<u>EX</u>	<u>PR</u>	<u>ABANDONED</u>
Cable TV			
Electric Cable			
Fiber Optic			
Gas Pipe			
Oil Pipe			
Sanitary Sewer			
Telephone Cable			
Water Pipe			

<u>UTILITIES ITEMS</u>	<u>EX</u>	<u>PR</u>
Controller		
Double Handhole		
Fire Hydrant		
GuyWire or Deadend Anchor		
Handhole		
Heavy Duty Handhole		
Junction Box		
Light Pole		
Manhole		
Pipeline Warning Sign		
Power Pole		
Power Pole with Light		
Sanitary Sewer Cleanout		
Splice Box Above Ground		
Telephone Splice Box Above Ground		
Telephone Pole		

<u>UTILITY ITEMS (contd.)</u>	<u>EX</u>	<u>PR</u>
Traffic Signal		
Traffic Signal Control Box		
Water Meter		
Water Meter Valve Box		
Profile Line		
Aerial Power Line		

<u>VEGETATION ITEMS</u>	<u>EX</u>	<u>PR</u>
Deciduous Tree		
Bush or Shrub		
Evergreen Tree		
Stump		
Orchard/Nursery Line		
Vegetation Line		
Woods & Bush Line		

<u>WATER FEATURE ITEMS</u>	<u>EX</u>	<u>PR</u>
Stream or Drainage Ditch		
Water's Edge		
Water Surface Indicator		
Water Point		
Disappearing Ditch		
Marsh		
Marsh/Swamp Boundary		

Illinois Department of Transportation

PASSED: January 3, 2011

ENGINEER OF PROJECT AND PROCEDURES: *Michael Bryant*

APPROVED: *Samuel...*

FIGURE 20 - (ISSUED WITH THIS SHEET)

**STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS**

(Sheet 8 of 8)

STANDARD 000001-06

DECIMAL OF AN INCH AND OF A FOOT

A		B		A		B		A		B		A		B		A		B					
0.0052	1/200	0.171875	27/160	0.3385	41/120	0.5052	61/120	0.671875	87/128	0.8385	103/120	1.0052	129/128	1.171875	155/128	1.3385	181/120	1.5052	207/128	1.671875	233/128		
0.0104	1/100	0.171875	27/160	0.34375	41/120	0.5104	61/120	0.6771	87/128	0.84375	103/120	1.0104	129/128	1.1771	155/128	1.34375	181/120	1.5104	207/128	1.6771	233/128	1.84375	259/128
0.015625	1/64	0.1823	23/128	0.3490	43/120	0.515625	63/120	0.6823	83/128	0.8490	103/120	1.015625	129/128	1.1823	155/128	1.3490	181/120	1.515625	207/128	1.6823	233/128	1.8490	259/128
0.0208	1/48	0.1875	3/8	0.3542	43/120	0.5208	63/120	0.6875	83/128	0.8542	103/120	1.0208	129/128	1.1875	155/128	1.3542	181/120	1.5208	207/128	1.6875	233/128	1.8542	259/128
0.0260	1/38	0.1927	23/120	0.359375	43/120	0.5260	63/120	0.6927	83/128	0.859375	103/120	1.0260	129/128	1.1927	155/128	1.359375	181/120	1.5260	207/128	1.6927	233/128	1.859375	259/128
0.03125	1/32	0.1979	23/120	0.3646	43/120	0.53125	63/120	0.6979	83/128	0.8646	103/120	1.03125	129/128	1.1979	155/128	1.3646	181/120	1.53125	207/128	1.6979	233/128	1.8646	259/128
0.0365	1/27	0.203125	23/120	0.3698	43/120	0.5365	63/120	0.703125	83/128	0.870375	103/120	1.0365	129/128	1.203125	155/128	1.3698	181/120	1.5365	207/128	1.703125	233/128	1.870375	259/128
0.0417	1/24	0.2083	23/120	0.3750	43/120	0.5417	63/120	0.7083	83/128	0.8750	103/120	1.0417	129/128	1.2083	155/128	1.3750	181/120	1.5417	207/128	1.7083	233/128	1.8750	259/128
0.046875	1/21	0.2135	23/120	0.3802	43/120	0.546875	63/120	0.7135	83/128	0.8802	103/120	1.046875	129/128	1.2135	155/128	1.3802	181/120	1.546875	207/128	1.7135	233/128	1.8802	259/128
0.0521	1/19	0.21875	23/120	0.3854	43/120	0.5521	63/120	0.71875	83/128	0.8854	103/120	1.0521	129/128	1.21875	155/128	1.3854	181/120	1.5521	207/128	1.71875	233/128	1.8854	259/128
0.0573	1/17	0.2240	23/120	0.390625	43/120	0.5573	63/120	0.7240	83/128	0.890625	103/120	1.0573	129/128	1.2240	155/128	1.390625	181/120	1.5573	207/128	1.7240	233/128	1.890625	259/128
0.0625	1/16	0.2292	23/120	0.3958	43/120	0.5625	63/120	0.7292	83/128	0.8958	103/120	1.0625	129/128	1.2292	155/128	1.3958	181/120	1.5625	207/128	1.7292	233/128	1.8958	259/128
0.0677	1/15	0.234375	23/120	0.4010	43/120	0.5677	63/120	0.734375	83/128	0.9010	103/120	1.0677	129/128	1.234375	155/128	1.4010	181/120	1.5677	207/128	1.734375	233/128	1.9010	259/128
0.0729	1/14	0.2396	23/120	0.40625	43/120	0.5729	63/120	0.7396	83/128	0.90625	103/120	1.0729	129/128	1.2396	155/128	1.40625	181/120	1.5729	207/128	1.7396	233/128	1.90625	259/128
0.078125	1/13	0.2448	23/120	0.4115	43/120	0.578125	63/120	0.7448	83/128	0.9115	103/120	1.078125	129/128	1.2448	155/128	1.4115	181/120	1.578125	207/128	1.7448	233/128	1.9115	259/128
0.0833	1/12	0.2500	3/4	0.4167	5/12	0.5833	7/12	0.7500	3/4	0.9167	11/12	1.0833	13/12	1.2500	3/4	1.4167	5/12	1.5833	7/12	1.7500	3/4	1.9167	11/12
0.0885	1/11	0.2552	31/120	0.421875	51/120	0.5885	71/120	0.7552	91/128	0.921875	111/128	1.0885	131/128	1.2552	31/120	1.421875	51/120	1.5885	71/120	1.7552	91/128	1.921875	111/128
0.09375	1/10	0.2604	31/120	0.4271	51/120	0.59375	71/120	0.7604	91/128	0.9271	111/128	1.09375	131/128	1.2604	31/120	1.4271	51/120	1.59375	71/120	1.7604	91/128	1.9271	111/128
0.0990	1/10	0.265625	31/120	0.4323	51/120	0.5990	71/120	0.765625	91/128	0.9323	111/128	1.0990	131/128	1.265625	31/120	1.4323	51/120	1.5990	71/120	1.765625	91/128	1.9323	111/128
0.1042	1/10	0.2709	31/120	0.4375	51/120	0.6042	71/120	0.7709	91/128	0.9375	111/128	1.1042	131/128	1.2709	31/120	1.4375	51/120	1.6042	71/120	1.7709	91/128	1.9375	111/128
0.109375	1/9	0.2760	31/120	0.4427	51/120	0.609375	71/120	0.7760	91/128	0.9427	111/128	1.109375	131/128	1.2760	31/120	1.4427	51/120	1.609375	71/120	1.7760	91/128	1.9427	111/128
0.1146	1/9	0.28125	31/120	0.4479	51/120	0.6146	71/120	0.78125	91/128	0.9479	111/128	1.1146	131/128	1.28125	31/120	1.4479	51/120	1.6146	71/120	1.78125	91/128	1.9479	111/128
0.1198	1/9	0.2865	31/120	0.453125	51/120	0.6198	71/120	0.7865	91/128	0.953125	111/128	1.1198	131/128	1.2865	31/120	1.453125	51/120	1.6198	71/120	1.7865	91/128	1.953125	111/128
0.1250	1/8	0.2917	31/120	0.4583	51/120	0.6250	71/120	0.7917	91/128	0.9583	111/128	1.1250	131/128	1.2917	31/120	1.4583	51/120	1.6250	71/120	1.7917	91/128	1.9583	111/128
0.1302	1/8	0.296875	31/120	0.4635	51/120	0.6302	71/120	0.796875	91/128	0.9635	111/128	1.1302	131/128	1.296875	31/120	1.4635	51/120	1.6302	71/120	1.796875	91/128	1.9635	111/128
0.1354	1/8	0.3021	31/120	0.46875	51/120	0.6354	71/120	0.8021	91/128	0.96875	111/128	1.1354	131/128	1.3021	31/120	1.46875	51/120	1.6354	71/120	1.8021	91/128	1.96875	111/128
0.140625	1/8	0.3073	31/120	0.4740	51/120	0.640625	71/120	0.8073	91/128	0.9740	111/128	1.140625	131/128	1.3073	31/120	1.4740	51/120	1.640625	71/120	1.8073	91/128	1.9740	111/128
0.1458	1/8	0.3125	31/120	0.4792	51/120	0.6458	71/120	0.8125	91/128	0.9792	111/128	1.1458	131/128	1.3125	31/120	1.4792	51/120	1.6458	71/120	1.8125	91/128	1.9792	111/128
0.1510	1/8	0.3177	31/120	0.484375	51/120	0.6510	71/120	0.8177	91/128	0.984375	111/128	1.1510	131/128	1.3177	31/120	1.484375	51/120	1.6510	71/120	1.8177	91/128	1.984375	111/128
0.15625	1/8	0.3229	31/120	0.4895	51/120	0.65625	71/120	0.8229	91/128	0.9895	111/128	1.15625	131/128	1.3229	31/120	1.4895	51/120	1.65625	71/120	1.8229	91/128	1.9895	111/128
0.1615	1/8	0.328125	31/120	0.4948	51/120	0.6615	71/120	0.828125	91/128	0.9948	111/128	1.1615	131/128	1.328125	31/120	1.4948	51/120	1.6615	71/120	1.828125	91/128	1.9948	111/128
0.1667	1/6	0.3333	1/3	0.5000	1/2	0.6667	2/3	0.8333	5/6	1.0000	1	1.1667	7/6	1.3333	2/3	1.5000	1/2	1.6667	2/3	1.8333	5/6	2.0000	2

A = Fractions of Inch or Foot  
 B = Inch Equivalents to Foot Fractions

DATE	REVISIONS
1-1-57	New Standard.

**DECIMAL OF AN INCH  
AND OF A FOOT**

STANDARD 001005

Illinois Department of Transportation

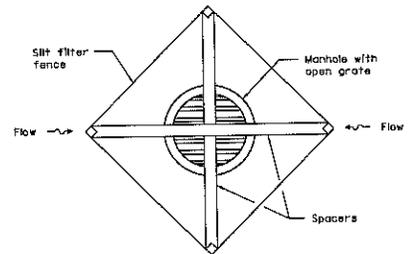
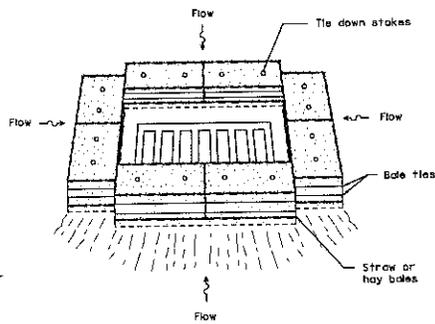
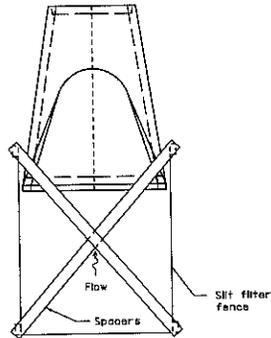
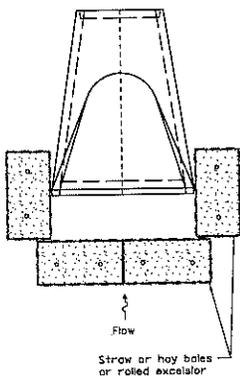
PASSED *[Signature]* 1957

ENGINEER IN CHARGE AND PROCEDURES

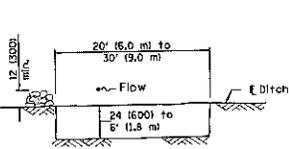
APPROVED *[Signature]* 1957

MEMBER OF ILLINOIS AND TRANSPORTATION



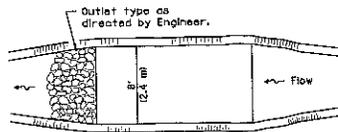


**INLET AND PIPE PROTECTION**



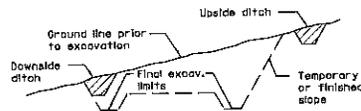
The performance of the basin will improve if put into a series.

**ELEVATION**

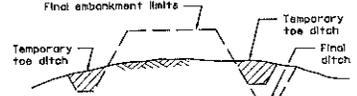


The long dimension should be parallel with the direction of the flow. Accumulated silt shall be removed anytime the basins become 75% filled.

**PLAN**



**TYPICAL CUT CROSS-SECTION**



**TYPICAL FILL CROSS-SECTION**

**TEMPORARY DITCHES FOR CUT & FILL SECTIONS**

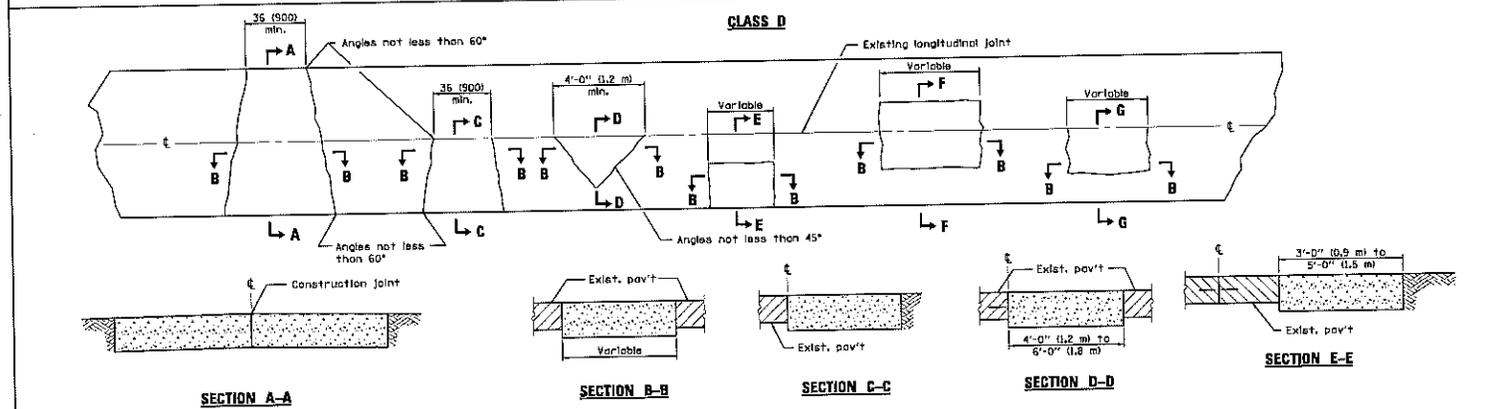
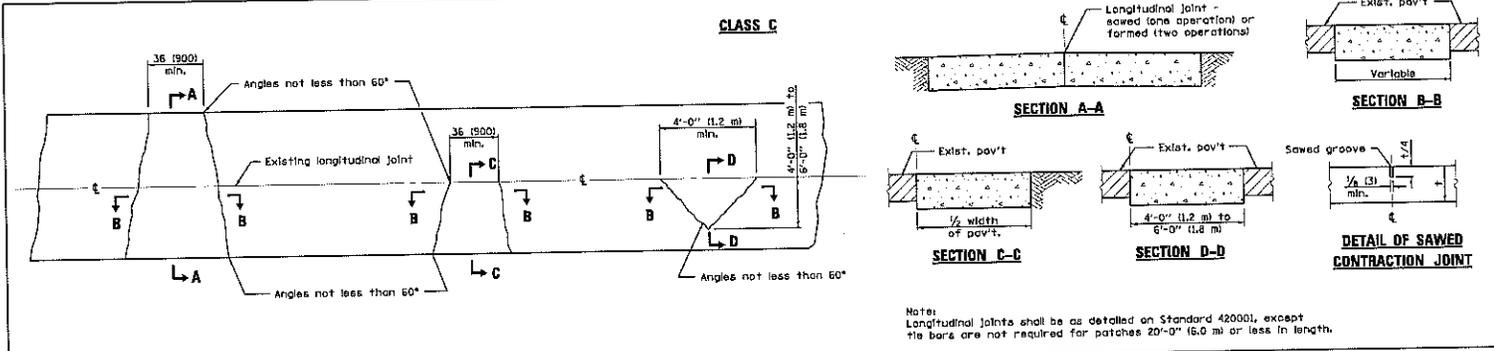
**SEDIMENT BASIN**

Missouri Department of Transportation	
PASSED	January 3, 2013
ENGINEER	Michael Brown
APPROVED	January 3, 2013
ENGINEERS OF DESIGN AND ENVIRONMENT	

**TEMPORARY EROSION CONTROL SYSTEMS**

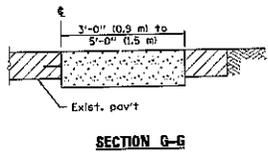
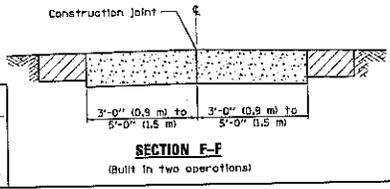
(Sheet 2 of 2)

STANDARD 280001-07



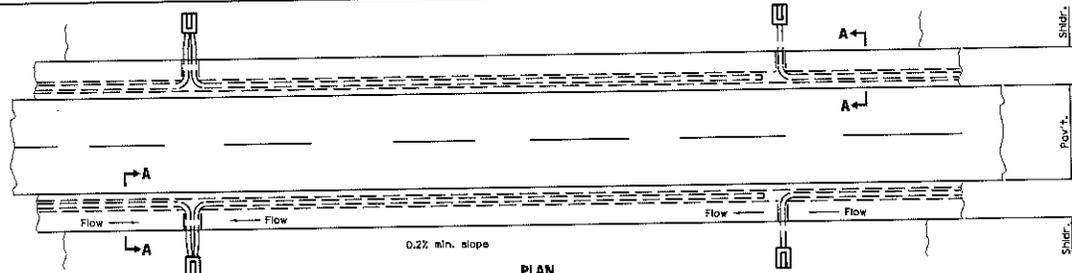
**GENERAL NOTES**  
Existing tie bars shall be either cut or removed.  
Marginal bars shall be cut.  
All dimensions are in inches (millimeters) unless otherwise shown.

Missouri Department of Transportation  
PASSED January 1, 2008  
ENGINEER OF POLICY AND PROCEDURES  
APPROVED January 1, 2008  
DIRECTOR OF DESIGN AND CONSTRUCTION

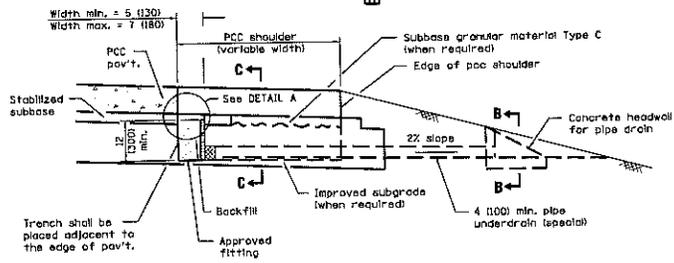


DATE	REVISIONS
1-1-08	Switched units to English (metric).
1-1-07	Revised Note for Class C patches.

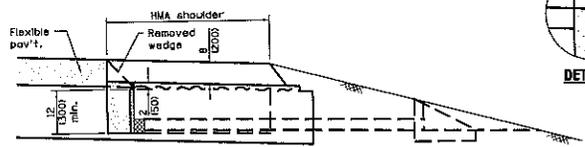
**CLASS C and D PATCHES**  
**STANDARD 442201-03**



**PLAN**



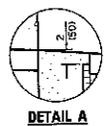
**SECTION A-A  
(PCC SHOULDER)**



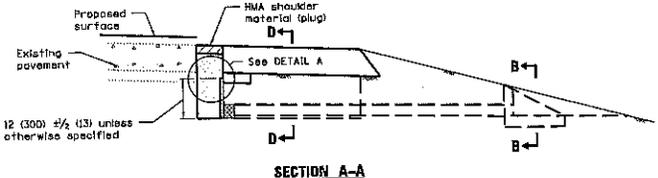
**SECTION A-A  
(HMA SHOULDER)**

(Dimensions and notes not shown shall be as shown in the above Section A-A)

**NEW CONSTRUCTION  
(TRENCH FOR DRAINAGE MAT UNDERDRAIN OPTION)**



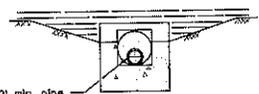
**DETAIL A**



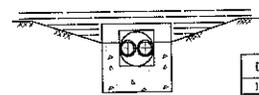
**SECTION A-A**

**EXISTING CONSTRUCTION  
(TRENCH FOR DRAINAGE MAT UNDERDRAIN OPTION)**

(Except as noted or shown, dimensions and notes specified for Existing Construction are the same as those of New Construction)



**SECTION B-B**



**SECTION B-B  
(Sag locations)**

**GENERAL NOTES**

See Standard 60101 for details of concrete headwall.

See Standards 482001, 482006 and 483001 for details of shoulders not shown.

The 24 (600) radius on the drainage fitting is only a minimum. Larger radii meeting the approval of the Engineer may be substituted.

All dimensions are in inches (millimeters) unless otherwise shown.

Florida Department of Transportation

PASSED January 5, 2011

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 5, 2011

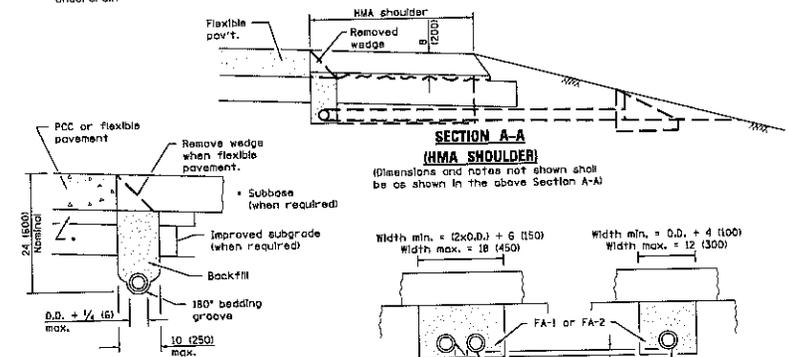
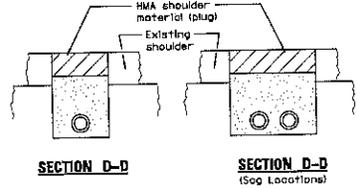
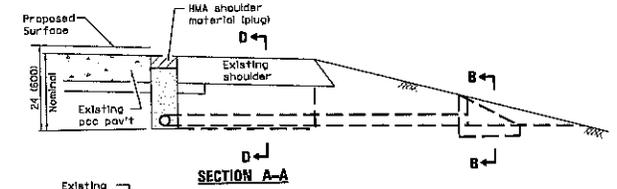
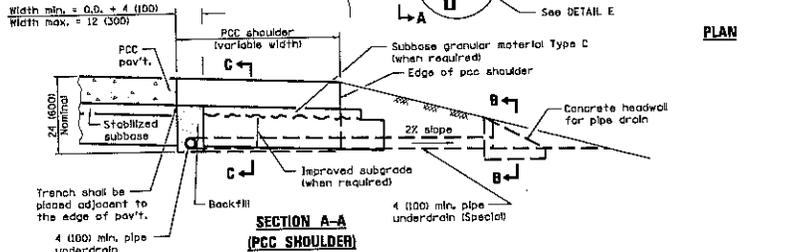
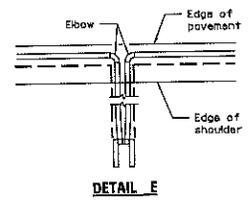
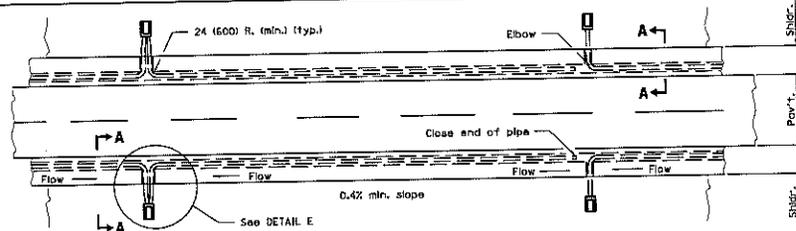
PROJECT NO. DESIGN AND CONSTRUCTION

DATE	REVISIONS
1-1-11	Added 'PCC' and 'HMA' to SECTION A-A titles on Sheet 2.
1-1-09	Switched units to English (metric).

**SUB-SURFACE DRAINS**

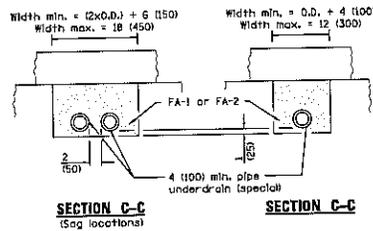
(Sheet 1 of 2)

**STANDARD 601001-04**



**TRENCH FOR CORRUGATED POLYETHYLENE TUBING ALTERNATE**

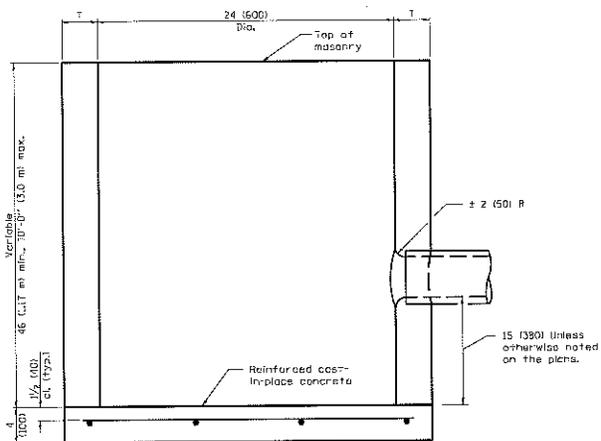
**EXISTING CONSTRUCTION**  
 (Except as noted or shown, dimensions and notes specified for Existing Construction are the same as those of New Construction)



**NEW CONSTRUCTION**

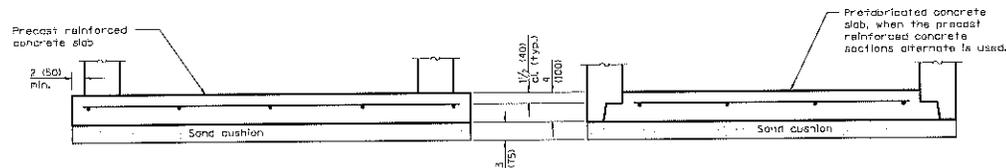
Missouri Department of Transportation  
 PASSED: [Signature] 2011  
 ENGINEER OF POLICY AND PROSECUTION  
 APPROVED: [Signature] 2011  
 PROJECT OF ASBESTOS AND ENVIRONMENT

**SUB-SURFACE DRAINS**  
 (Sheet 2 of 2)  
 STANDARD 601001-04



**ELEVATION**

ALTERNATE MATERIALS FOR WALLS	1 (min)
Precast Reinforced Concrete Section	3 (75)
Concrete Masonry Unit	5 (125)
Cast-in-Place Concrete	6 (150)
Brick Masonry	8 (200)



**ALTERNATE BOTTOM SLAB**

**GENERAL NOTES**

Bottom slabs shall be reinforced with a minimum of 0.27 sq. in./ft. (670 sq. mm/m) in both directions with a maximum spacing of 9 (230).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-11	Revised reinf. in alcls.
	Added max. limit to height.
	Added general notes.
1-1-09	Switched units to
	English (metric).

**CATCH BASIN TYPE C**

**STANDARD 602011-02**

Illinois Department of Transportation

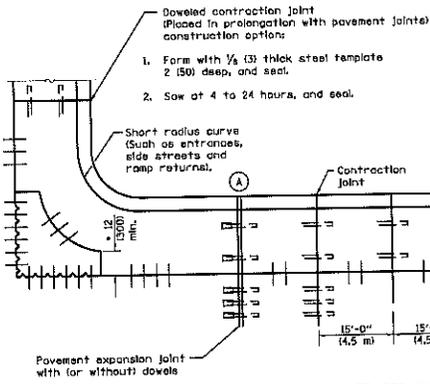
DESIGNER: *Michael R. ...*

ENGINEER IN CHARGE: *...*

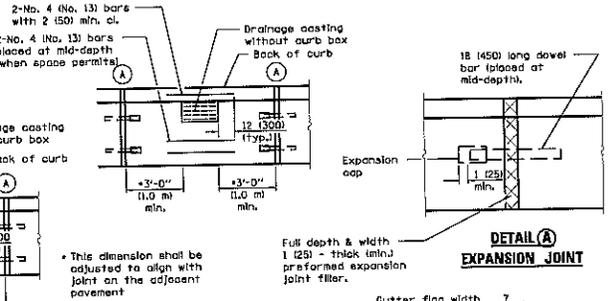
APPROVED: *...*

ENGINEER OF DESIGN AND CONSTRUCTION: *...*

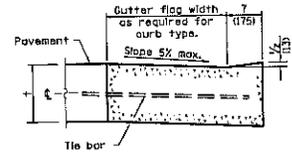
DATE: 06/11/2011



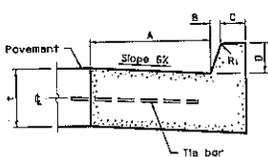
**PLAN**  
**ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE**



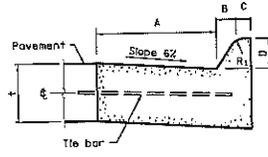
**DETAIL A**  
**EXPANSION JOINT**



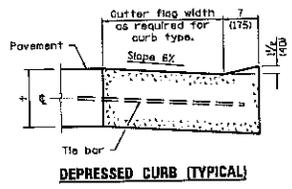
**DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED**



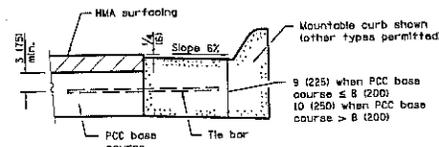
**BARRIER CURB**



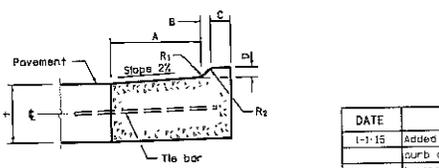
**MOUNTABLE CURB**



**DEPRESSED CURB (TYPICAL)**



**ADJACENT TO PCC BASE COURSE WITH HMA SURFACING**



**M-2.06 (M-5.15) and M-2.12 (M-5.30)**

TYPE	A	B	C	D	R <sub>1</sub>
B-6.06* (8-15.15)	6 (150)	6 (150)	6 (150)	6 (150)	1 (25)
B-6.12 (8-15.3)	12 (300)	6 (150)	6 (150)	6 (150)	1 (25)
B-6.18 (8-15.45)	18 (450)	6 (150)	6 (150)	6 (150)	1 (25)
B-6.24 (8-15.60)	24 (600)	6 (150)	6 (150)	6 (150)	1 (25)
B-9.12 (8-22.30)	12 (300)	9 (225)	9 (225)	9 (225)	1 (25)
B-9.18 (8-22.45)	18 (450)	9 (225)	9 (225)	9 (225)	1 (25)
B-9.24 (8-22.60)	24 (600)	9 (225)	9 (225)	9 (225)	1 (25)

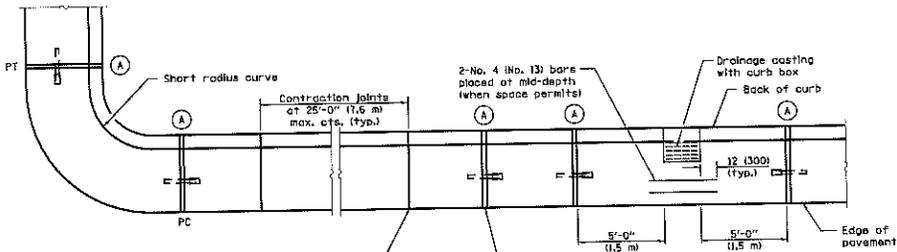
TYPE	A	B	C	D	R <sub>1</sub>	R <sub>2</sub>
M-2.06 (M-5.15)	6 (150)	2 (50)	4 (100)	2 (50)	3 (75)	2 (50)
M-2.12 (M-5.30)	12 (300)	2 (50)	4 (100)	2 (50)	3 (75)	2 (50)
M-4.06 (M-10.15)	6 (150)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-4.12 (M-10.30)	12 (300)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-4.18 (M-10.45)	18 (450)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-4.24 (M-10.60)	24 (600)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-6.06 (M-15.15)	6 (150)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-6.12 (M-15.30)	12 (300)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-6.18 (M-15.45)	18 (450)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-6.24 (M-15.60)	24 (600)	6 (150)	2 (50)	6 (150)	2 (50)	NA

Florida Department of Transportation  
 PASSED: January 1, 2005  
 ENGINEER OF DESIGN AND PROCUREMENT  
 APPROVED: January 1, 2015  
 ENGINEER OF DESIGN AND PROCUREMENT

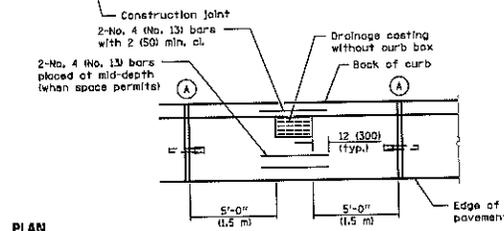
DATE	REVISIONS
1-1-15	Added B-6.06 (8-15.15) barrier curb and gutter to table (corner islands only).
1-1-13	Added general note regarding requirement for dowel bars.

**CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER**  
 (Sheet 1 of 2)  
**STANDARD 6060D1-06**

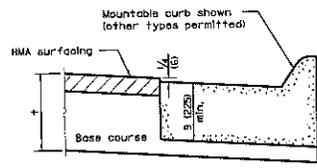
**GENERAL NOTES**  
 The bottom slope of combination curb and gutter constructed adjacent to pcc pavement shall be the same slope as the subbase or 6% when subbase is omitted.  
 † = Thickness of pavement.  
 Longitudinal joint tie bars shall be No. 6 (No. 19) at 24 (600) centers in accordance with details for longitudinal construction joint shown on Standard 420001.  
 A minimum clearance of 2 (50) between the end of the tie bar and the back of the curb shall be maintained.  
 The dowel bars shown in contraction joints will only be required for monolithic construction.  
 See Standard 606301 for details of corner islands.  
 All dimensions are in inches (millimeters) unless otherwise shown.



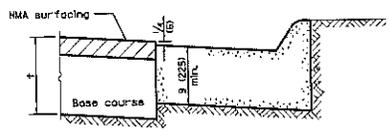
1. Form with 1/8 (3) thick steel template 2 (50) deep, and seal.
2. Saw 2 (50) deep at 4 to 24 hours, and seal.
3. Insert 1/4 (20) thick preformed joint filler full depth and width.



**PLAN**

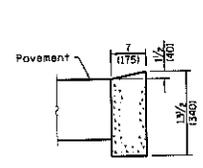


**ON DISTURBED SUBGRADE**

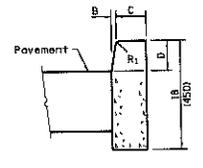


**ON UNDISTURBED SUBGRADE**

**ADJACENT TO FLEXIBLE PAVEMENT**

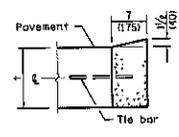


**DEPRESSED CURB**



**BARRIER CURB**

**ADJACENT TO FLEXIBLE PAVEMENT**



**DEPRESSED CURB**



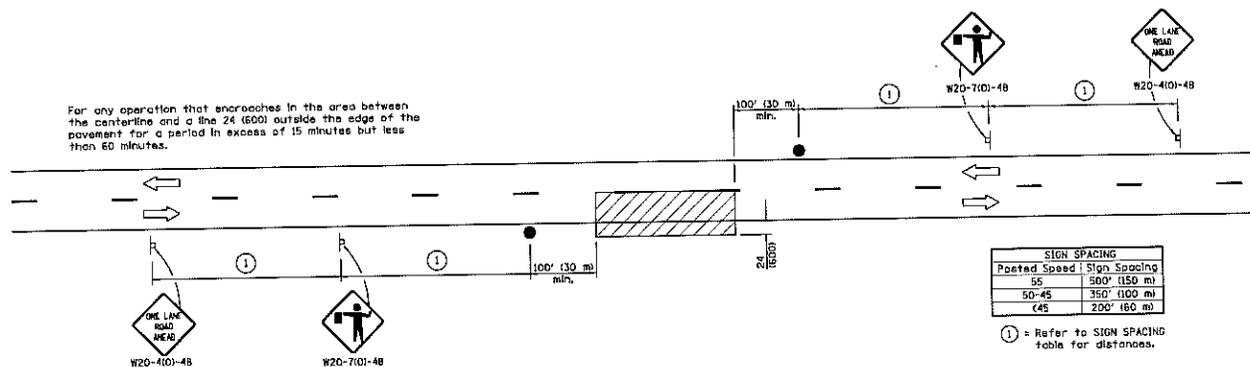
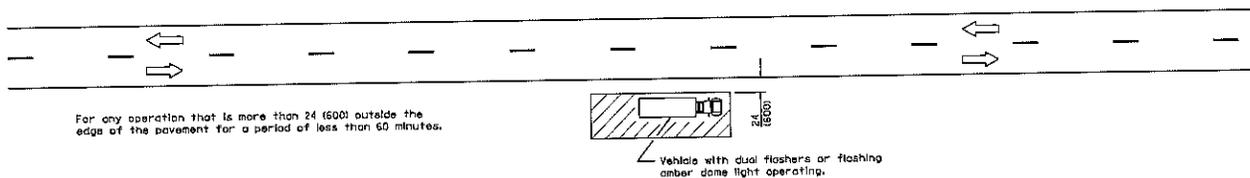
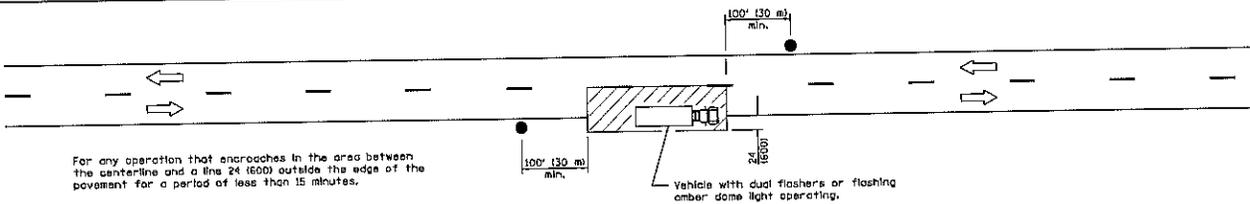
**BARRIER CURB**

**ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE**

**CONCRETE CURB TYPE B**

Illinois Department of Transportation  
 PASSED January 3, 2015  
 ENGINEER OF POLICY AND PROCEDURES  
 APPROVED January 3, 2015  
 ENGINEER IN CHARGE AND SUPERVISOR

**CONCRETE CURB TYPE B  
 AND COMBINATION  
 CONCRETE CURB AND GUTTER**  
 (Sheet 2 of 2)  
 STANDARD 606001-06



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
45	200' (60 m)

**TYPICAL APPLICATIONS**

- Marking patches
- Field survey
- String line
- Utility operations
- Cleaning up debris on pavement

**SYMBOLS**

- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

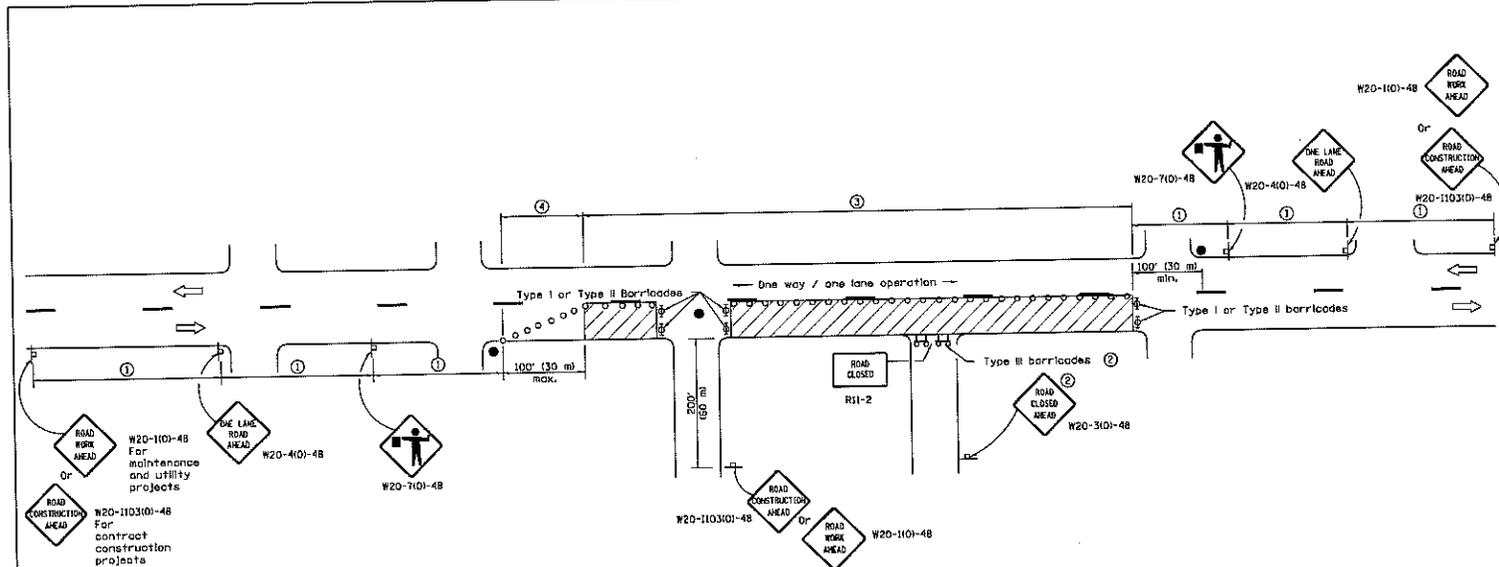
Illinois Department of Transportation  
 APPROVED: [Signature] January 1, 2011  
 ENGINEER IN CHARGE  
 APPROVED: [Signature] January 1, 2011  
 ENGINEER IN CHARGE

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English/metric.

**LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS**

STANDARD 701301-04

All dimensions are in inches (millimeters) unless otherwise shown.



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

**SYMBOLS**

- Work area
- Cone, drum or barricade (not required for moving operations)
- Sign on portable or permanent support
- Flagger with traffic control sign
- Barricade or drum with flashing light
- Type III barricade with flashing lights

- ① Refer to SIGN SPACING TABLE for distances.
- ② For approved alderoad closures.
- ③ Cones at 25' (8 m) centers for 250' (76 m). Additional cones may be placed at 30' (9.5 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Cones, drums or barricades at 20' (6 m) centers.

**GENERAL NOTES**

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED: *[Signature]* January 1, 2011  
 ENGINEER OF SAFETY ENGINEERING

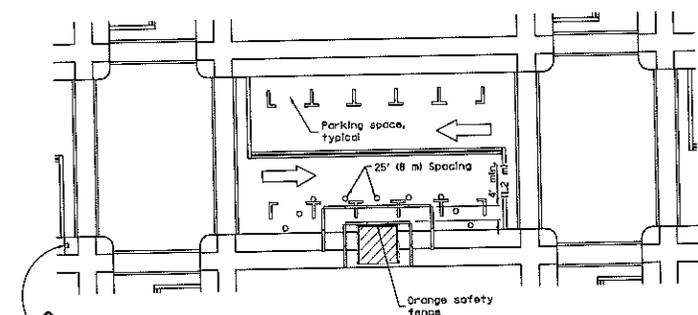
APPROVED: *[Signature]* January 1, 2011  
 ENGINEER OF DESIGN AND EXPERIMENTAL

LS-1-1 (07/02)

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-03	Switched units to English (metric).
	Corrected sign No.'s.

**URBAN LANE CLOSURE,  
2L, 2W, UNDIVIDED**

STANDARD 701501-05

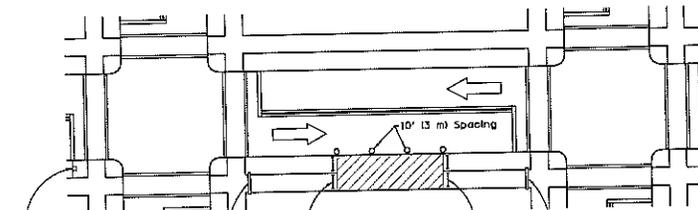


① Omit whenever duplicated by road work traffic control.

- ① ROAD CONSTRUCTION AHEAD W20-1103(D)-4B for contract construction projects
- Or
- ① ROAD WORK AHEAD W20-1101-4B for maintenance and utility projects

**SIDEWALK DIVERSION**

- SYMBOLS**
- Work area
  - Sign on portable or permanent support
  - Barricade or drum
  - Cone, drum or barricade
  - Type III barricade
  - Detectable pedestrian channelizing barricade



- ① ROAD CONSTRUCTION AHEAD W20-1103(D)-4B for contract construction projects
- Or
- ① ROAD WORK AHEAD W20-1101-4B for maintenance and utility projects

- SIDEWALK CLOSED R11-1101-2410
- SIDEWALK CLOSED R11-1102-2430
- SIDEWALK CLOSED USE OTHER SIDE R11-1102-2430

**SIDEWALK CLOSURE**

**GENERAL NOTES**

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED: *[Signature]* 7018

ENGINEER OF SAFETY ENGINEERING

APPROVED: *[Signature]* 2207

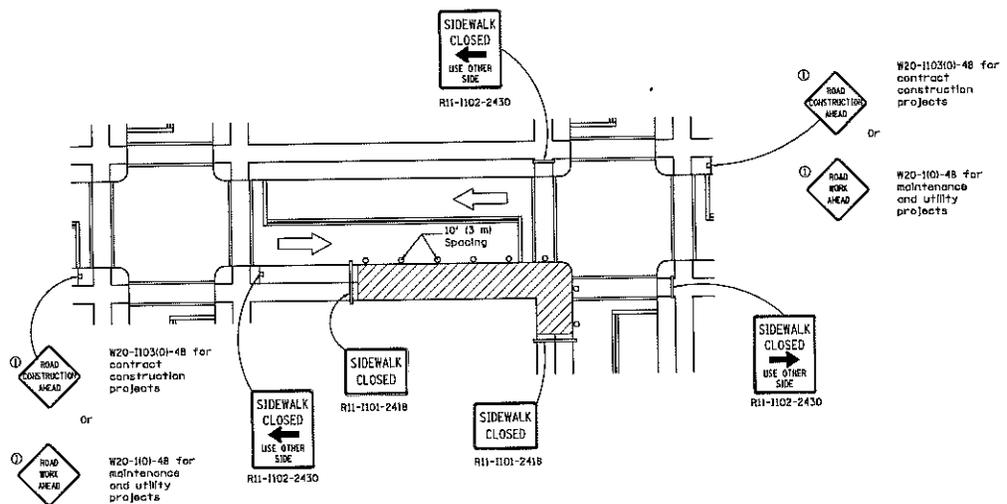
ENGINEER IN CHARGE, ROAD CONSTRUCTION

DATE	REVISIONS
1-1-12	Added SIDEWALK DIVERSION.
	Modified appearance of plan views. Renamed Sta.
1-1-09	Switched units to English (metric).
	702901 to 701901.

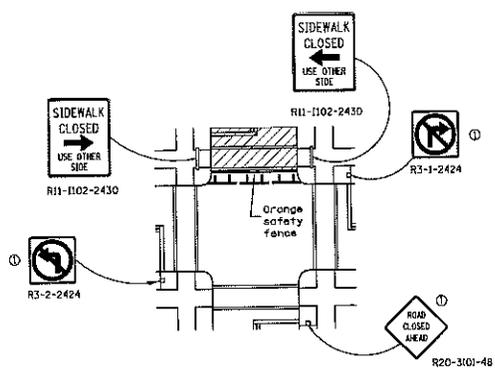
**SIDEWALK, CORNER OR CROSSWALK CLOSURE**

(Sheet 1 of 2)

STANDARD 701801-05



**CORNER CLOSURE**



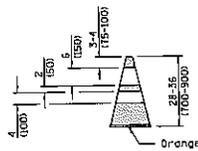
**CROSSWALK CLOSURE**

Illinois Department of Transportation  
 APPROVED: [Signature] JANUARY 1, 2017  
 ENGINEER OF SAFETY ENGINEERING  
 APPROVED: [Signature] JANUARY 1, 2012  
 ENGINEER OF DESIGN AND WORKMANSHIP

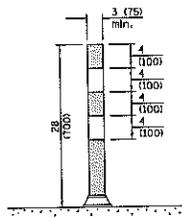
**SIDEWALK, CORNER OR CROSSWALK CLOSURE**  
 (Sheet 2 of 2)  
 STANDARD 701B01-05



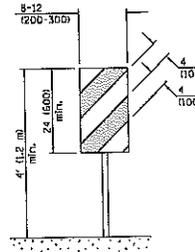
**CONE**



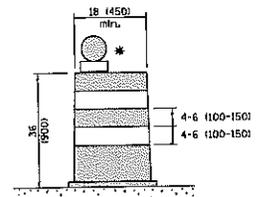
**REFLECTORIZED CONE**



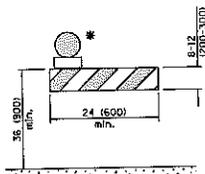
**FLEXIBLE DELINEATOR**



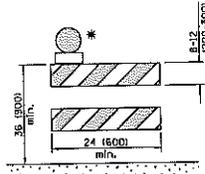
**VERTICAL PANEL  
POST MOUNTED**



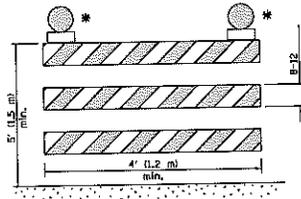
**DRUM**



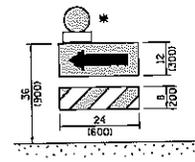
**TYPE I BARRICADE**



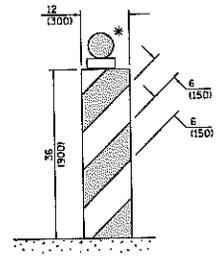
**TYPE II BARRICADE**



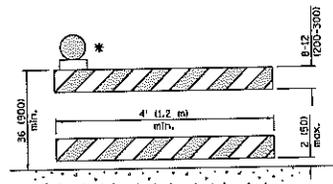
**TYPE III BARRICADE**



**DIRECTION INDICATOR  
BARRICADE**



**VERTICAL BARRICADE**



**DETECTABLE PEDESTRIAN  
CHANNELIZING BARRICADE**

\* Warning lights (if required)

**GENERAL NOTES**  
All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED: \_\_\_\_\_ 2015  
ENGINEER OF OPERATIONS

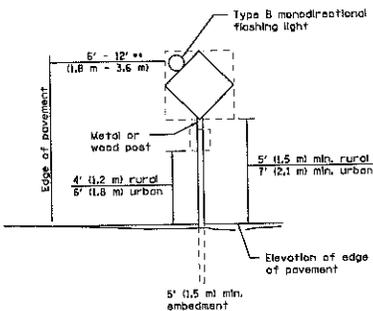
APPROVED: \_\_\_\_\_ 2015  
ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-15	Revised two sign numbers on sheet 2. Added note req. PHOTO ENFORCED plaque.
1-1-14	Modified flagger sign height. Added highway construction saved zone signs.

**TRAFFIC CONTROL  
DEVICES**

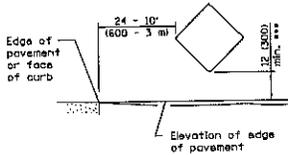
(Sheet 1 of 3)

**STANDARD 701801-04**



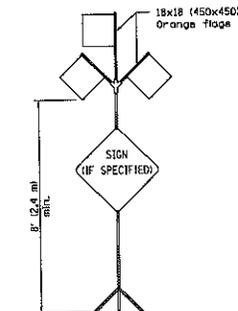
**POST MOUNTED SIGNS**

\*\* When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 5' (1.5 m) to the outside edge of the paved shoulder.



**SIGNS ON TEMPORARY SUPPORTS**

\*\*\* When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



**HIGH LEVEL WARNING DEVICE**

ROAD CONSTRUCTION NEXT X MILES G20-110401-6036	END CONSTRUCTION G20-1105101-6024
---	--------------------------------------

This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Such sign displays shall be utilized on multi-lane highways.

**WORK LIMIT SIGNING**

WORK ZONE R21-115101-3618	R21-115101-3618
SPEED LIMIT R2-1-3648	R2-1-3648
XX PHOTO ENFORCED R10-1108p-3618 ****	R10-1108p-3618 ****
XXXX FINE MINIMUM R2-1106p-3618	R2-1106p-3618

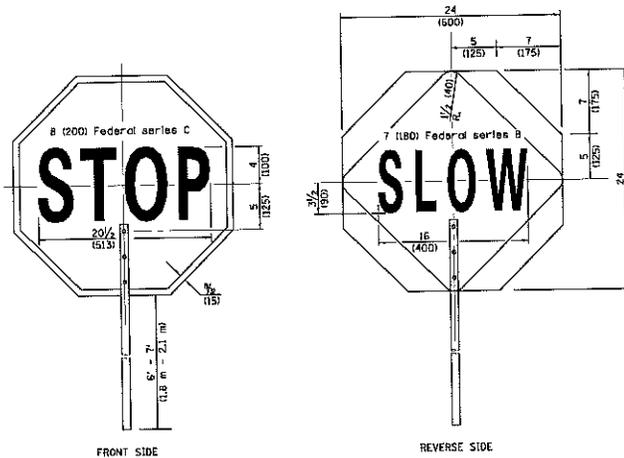
Sign assembly as shown on Standards or as allowed by District operations.

END WORK ZONE SPEED LIMIT G20-1103101-6036	G20-1103101-6036
---	------------------

This sign shall be used when the above sign assembly is used.

**HIGHWAY CONSTRUCTION SPEED ZONE SIGNS**

\*\*\*\* R10-1108p shall only be used along roadways under the jurisdiction of the State.



FRONT SIDE

REVERSE SIDE

**FLAGGER TRAFFIC CONTROL SIGN**

Illinois Department of Transportation

APPROVED: [Signature] JANUARY 3, 2015

DESIGNER OF OPERATIONS: [Signature]

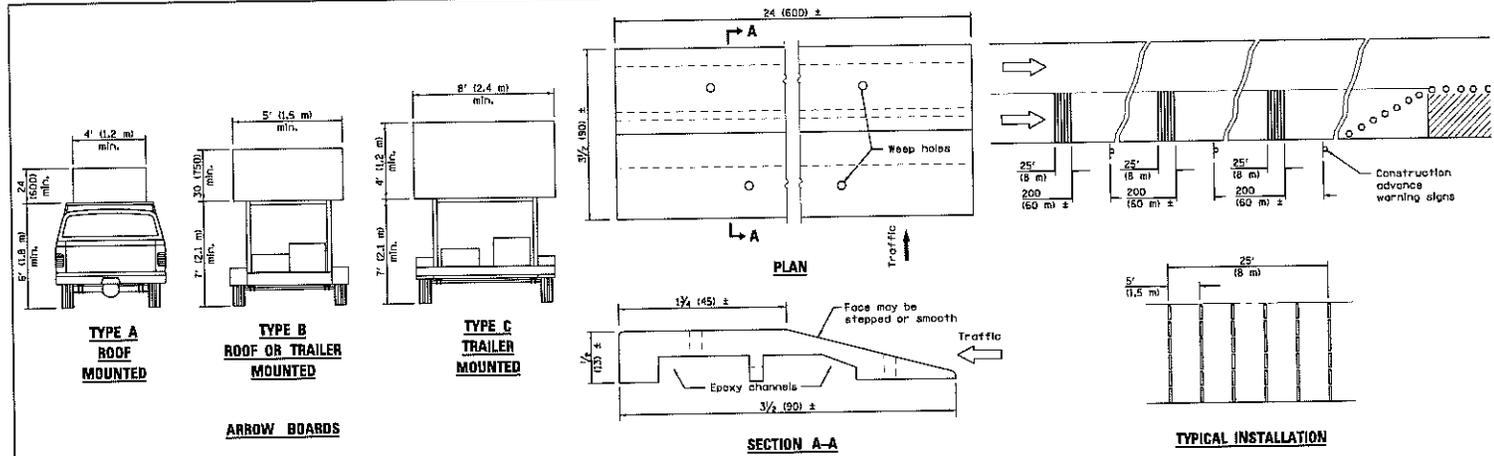
APPROVED: [Signature] JANUARY 3, 2015

DESIGNER OF DESIGN AND ENGINEERING: [Signature]

**TRAFFIC CONTROL DEVICES**

(Sheet 2 of 3)

STANDARD 701901-04

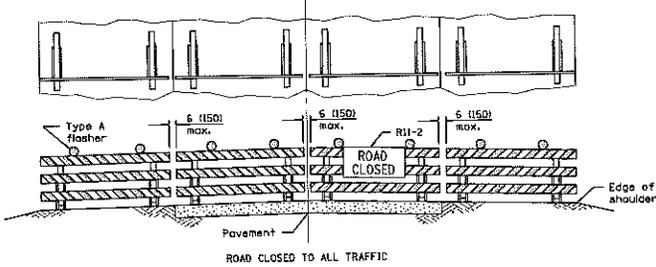


**ARROW BOARDS**

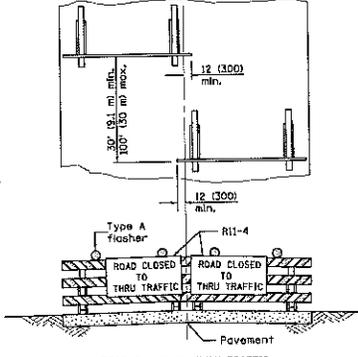
**SECTION A-A**

**TEMPORARY RUMBLE STRIPS**

**TYPICAL INSTALLATION**



Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

Illinois Department of Transportation

APPROVED: [Signature] 2015  
 ENGINEER OF OPERATIONS

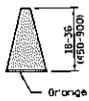
APPROVED: [Signature] 2015  
 PROJECT ENGINEER

**TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD**

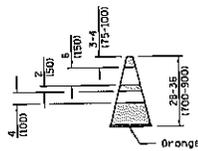
**TRAFFIC CONTROL DEVICES**

STANDARD 701901-04

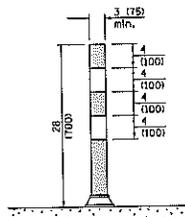
(Sheet 3 of 3)



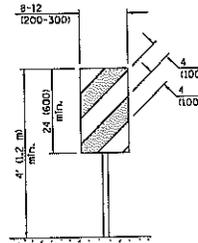
**CONE**



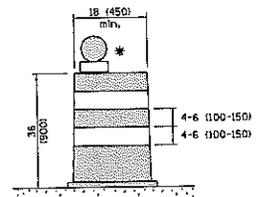
**REFLECTORIZED CONE**



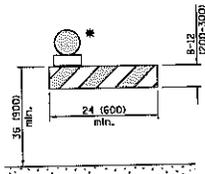
**FLEXIBLE DELINEATOR**



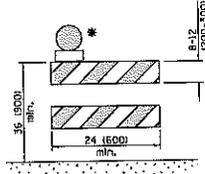
**VERTICAL PANEL  
POST MOUNTED**



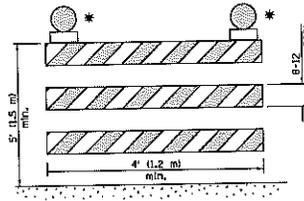
**DRUM**



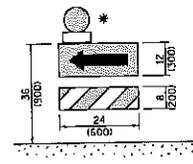
**TYPE I BARRICADE**



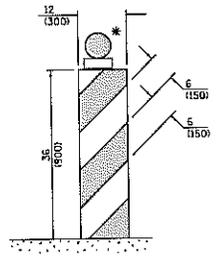
**TYPE II BARRICADE**



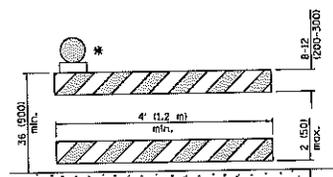
**TYPE III BARRICADE**



**DIRECTION INDICATOR  
BARRICADE**



**VERTICAL BARRICADE**



**DETECTABLE PEDESTRIAN  
CHANNELIZING BARRICADE**

\* Warning lights (if required)

**GENERAL NOTES**  
All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-15	Revised two sign numbers on sheet 2. Added note req. PHOTO ENFORCED plaque.
1-1-14	Mod/Fluo flagger sign height. Added highway construction speed zone signs.

**TRAFFIC CONTROL  
DEVICES**

(Sheet 1 of 3)

**STANDARD 701901-04**

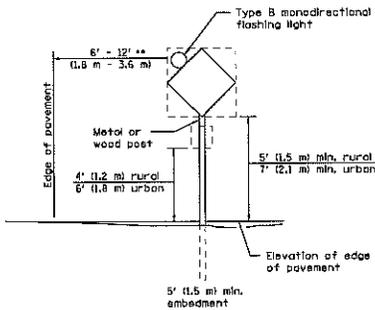
Florida Department of Transportation

APPROVED: January 1, 2015

ENGINEER OF OPERATIONS

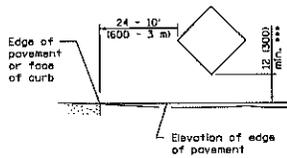
APPROVED: January 1, 2015

PROJECT: 2015-001



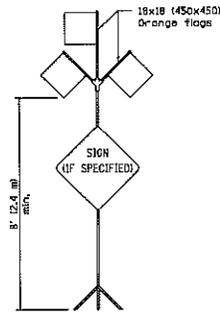
**POST MOUNTED SIGNS**

\*\* When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



**SIGNS ON TEMPORARY SUPPORTS**

\*\*\* When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



**HIGH LEVEL WARNING DEVICE**

ROAD CONSTRUCTION NEXT X MILES

END CONSTRUCTION

620-110401-6036

620-1105101-6024

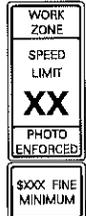
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

**WORK LIMIT SIGNING**



W21-115101-3618

R2-1-3648

R10-1106p-3618 \*\*\*\*

R2-1106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.

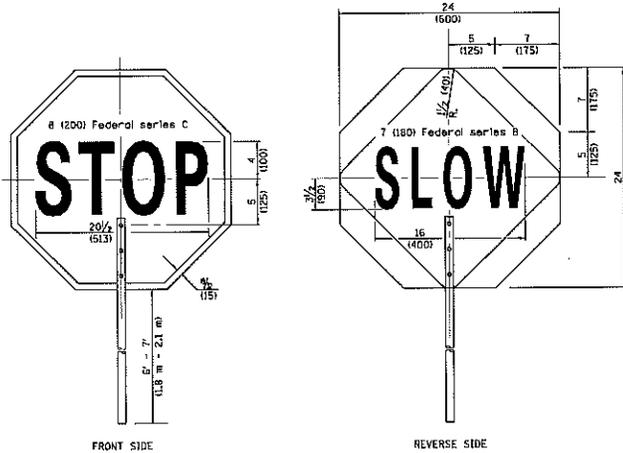


620-110301-6036

This sign shall be used when the above sign assembly is used.

**HIGHWAY CONSTRUCTION SPEED ZONE SIGNS**

\*\*\*\* R10-1108p shall only be used along roadways under the jurisdiction of the State.



FRONT SIDE

REVERSE SIDE

**FLAGGER TRAFFIC CONTROL SIGN**

Florida Department of Transportation

APPROVED January 3, 2015

DESIGNED BY OPERATIONS

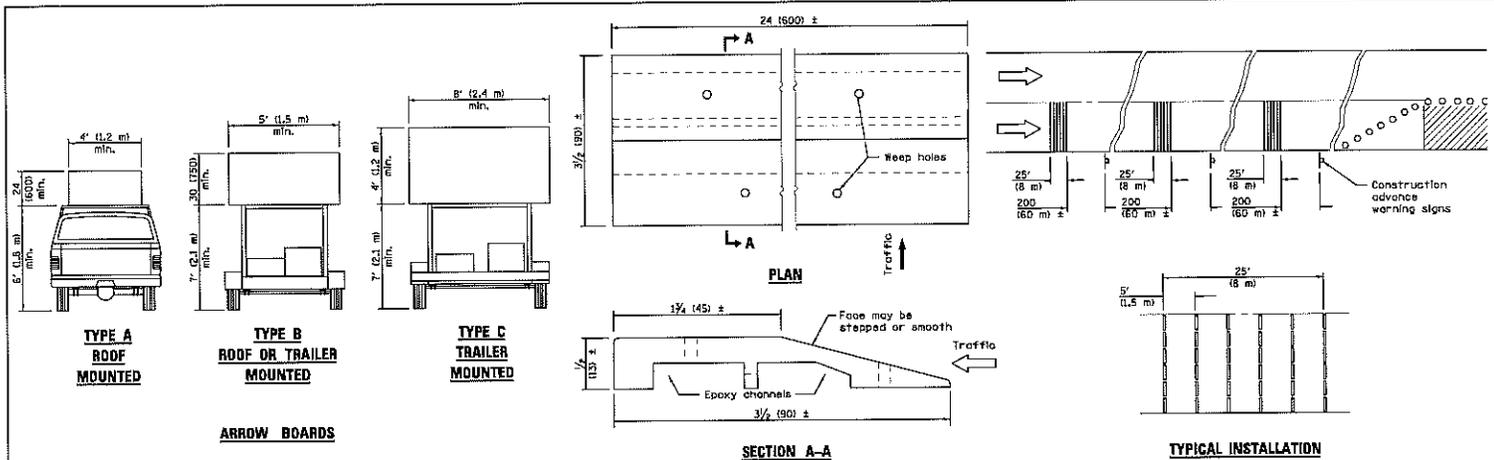
APPROVED January 3, 2015

DESIGNED BY DESIGN AND ENGINEERING

**TRAFFIC CONTROL DEVICES**

(Sheet 2 of 3)

STANDARD 701801-04

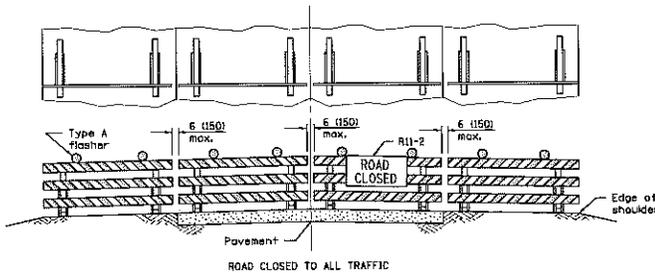


**ARROW BOARDS**

**SECTION A-A**

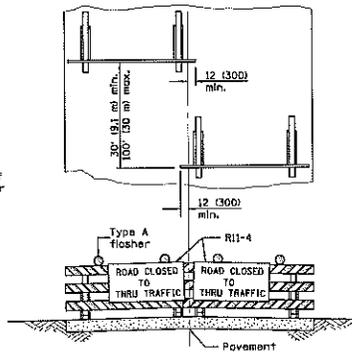
**TYPICAL INSTALLATION**

**TEMPORARY RUMBLE STRIPS**



**ROAD CLOSED TO ALL TRAFFIC**

Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



**ROAD CLOSED TO THRU TRAFFIC**

Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

**TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD**

**TRAFFIC CONTROL DEVICES**

(Sheet 3 of 3)

**STANDARD 701901-04**

Illinois Department of Transportation

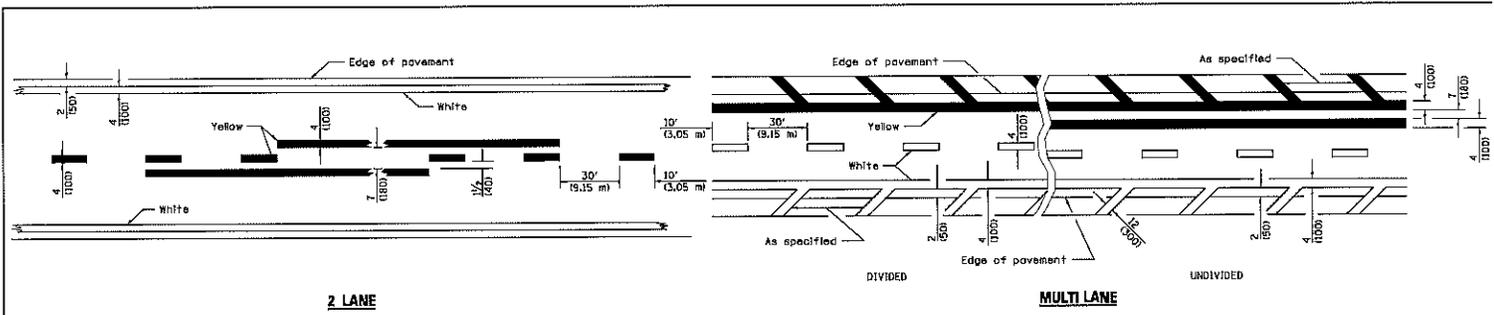
APPROVED: *[Signature]* January 3, 2015

SPECIAL AGENT IN CHARGE

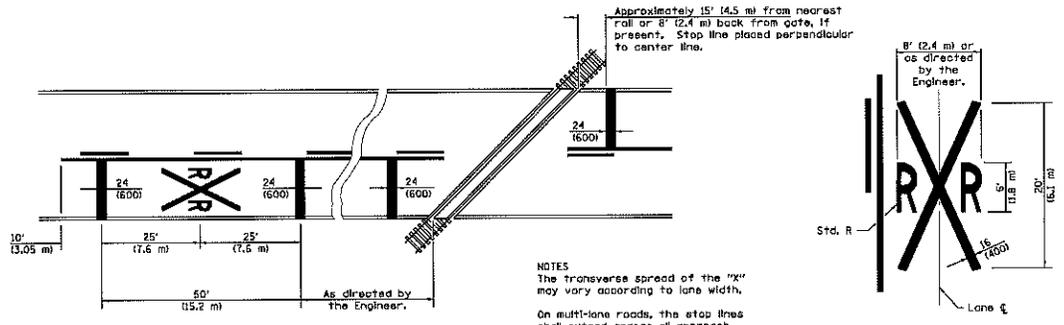
APPROVED: *[Signature]* January 3, 2015

ENGINEER OF DESIGN AND CONSTRUCTION

4.6.1.1 (02/02)



**LANE AND EDGE LINES**



**NOTES**  
The transverse spread of the "RR" may vary according to lane width.  
On multi-lane roads, the stop lines shall extend across all approach lanes and separate RR symbols shall be placed adjacent to each other in each lane.  
When the pavement marking symbol is used, a portion of the symbol should be located directly adjacent to the Advance Warning Sign (W30-1) as placed by Table 20-4, Condition B of the MUTCD.

**PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING**

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-15	Added symbols. Revised bike symbol. Revised note for stop line at RR crossing.
1-1-14	Added bike symbol. Renamed "LANE DROP ARROW" detail to "LANE-REDUCTION ARROW".

**TYPICAL PAVEMENT MARKINGS**

STANDARD 780001-05

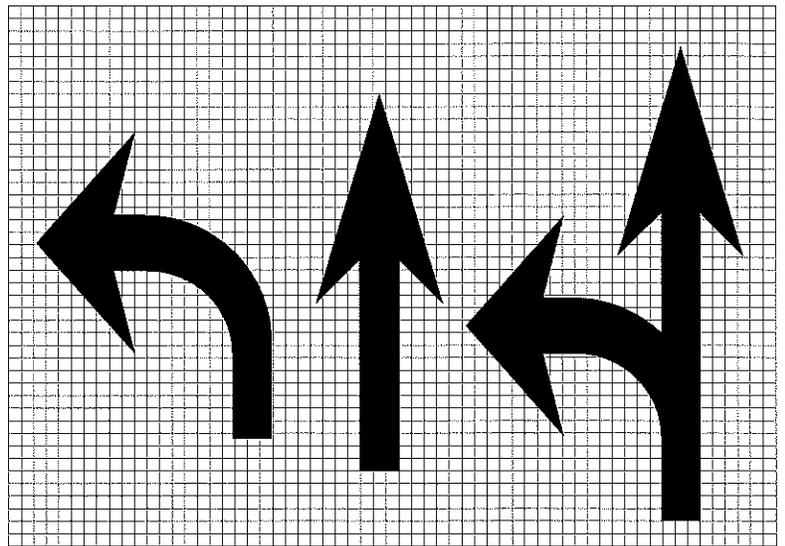
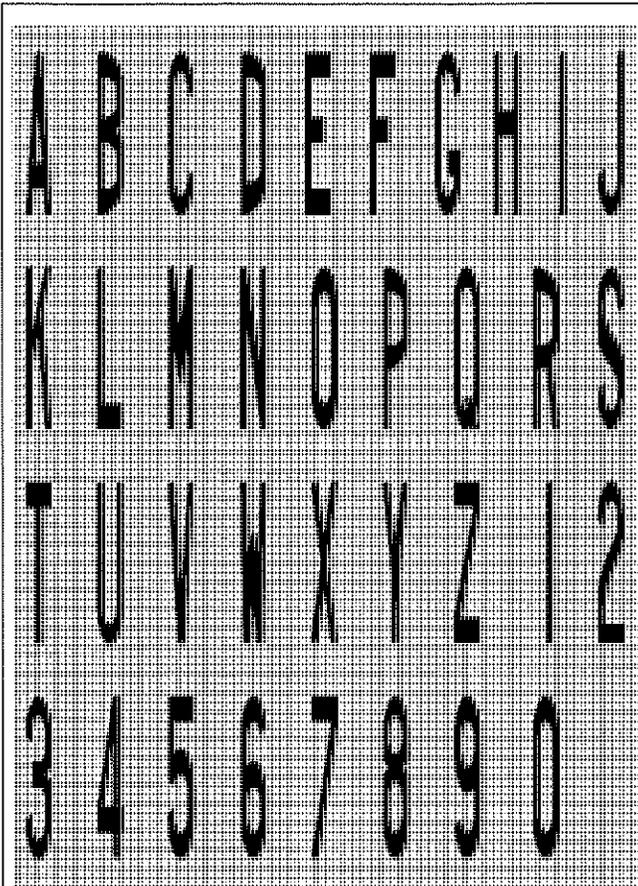
(Sheet 1 of 3)

Illinois Department of Transportation

APPROVED: [Signature] 2015  
ENGINEER OF OPERATIONS

APPROVED: [Signature] 2015  
SUPERVISOR OF ROADWAY CONSTRUCTION

8-4-C-1 (03/02)



Legend Height	Arrow Size	a
6' (1.8 m)	Small	2.9 (74)
8' (2.4 m)	Large	3.8 (96)

The space between adjacent letters or numerals should be approximately 3 (76) for 6' (1.8 m) legend and 4 (103) for 8' (2.4 m) legend.

**LETTER AND ARROW GRID SCALE**

Illinois Department of Transportation

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

ENGINEER OF OPERATIONS

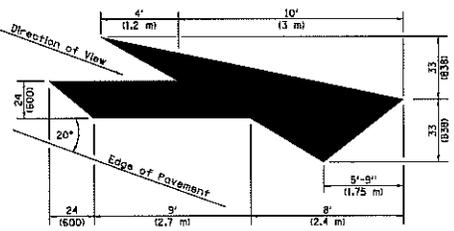
APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

ILLINOIS DEPARTMENT OF TRANSPORTATION

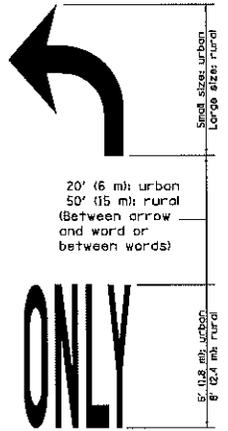
**TYPICAL PAVEMENT MARKINGS**

(Sheet 2 of 3)

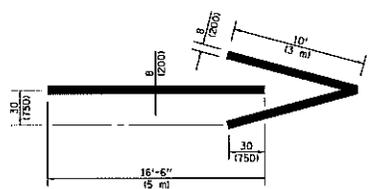
**STANDARD 788001-05**



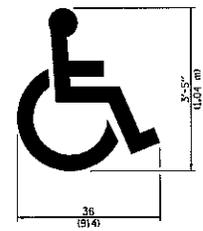
**LANE-REDUCTION ARROW**  
 Right lane-reduction arrow shown.  
 Use mirror image for left lane.



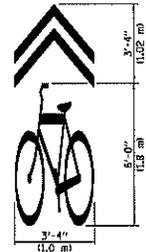
**WORD AND ARROW LAYOUT**



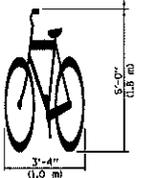
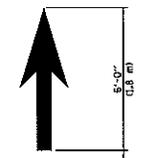
**WRONG WAY ARROW**



**INTERNATIONAL SYMBOL OF ACCESSIBILITY**



**SHARED LANE SYMBOL**



**BIKE SYMBOL**  
 (Arrow is optional)

Illinois Department of Transportation  
 APPROVED: [Signature] January 3, 2015  
 LEGALITY OF SPECIFICATIONS  
 APPROVED: [Signature] January 3, 2015  
 ENGINEER OF DESIGN AND FIELDWORK

**TYPICAL PAVEMENT MARKINGS**  
 (Sheet 3 of 3)  
**STANDARD 780001-05**



**Return with Bid**

Route	<u>Celebrity Circle</u>
County	<u>DuPage/Cook</u>
Local Agency	<u>Hanover Park</u>
Section	<u>15-00065-00-PV</u>

**All contractors are required to complete the following certification:**

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

---



---



---

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

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

---



---



---



---

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

---

---

---

---

---

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

Bidder: \_\_\_\_\_

By: \_\_\_\_\_

(Signature)

Address: \_\_\_\_\_

Title: \_\_\_\_\_



Local Agency Proposal Bid Bond

Route Celebrity Circle
County DuPage/Cook
Local Agency Hanover Park
Section 15-00065-00-PV

RETURN WITH BID

PAPER BID BOND

WE \_\_\_\_\_ as PRINCIPAL,
and \_\_\_\_\_ as SURETY,

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

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

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

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

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this \_\_\_\_\_ day of \_\_\_\_\_

Principal

(Company Name)

(Company Name)

By: \_\_\_\_\_ (Signature and Title)

By: \_\_\_\_\_ (Signature and Title)

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

Surety

(Name of Surety)

By: \_\_\_\_\_ (Signature of Attorney-in-Fact)

STATE OF ILLINOIS,

COUNTY OF \_\_\_\_\_

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

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

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

Given under my hand and notarial seal this \_\_\_\_\_ day of \_\_\_\_\_

My commission expires \_\_\_\_\_ (Notary Public)

ELECTRONIC BID BOND

Electronic bid bond is allowed (box must be checked by LA if electronic bid bond is allowed)

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

Electronic Bid Bond ID Code

(Company/Bidder Name)

(Signature and Title)

Date



**Illinois Department  
of Transportation**

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

**Affidavit of Availability  
For the Letting of \_\_\_\_\_**

(Letting date)

**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						<b>Accumulated Totals</b>
Uncompleted Dollar Value if Firm Is the Prime Contractor						0.00
Uncompleted Dollar Value if Firm Is the Subcontractor						0.00
<b>Total Value of All Work</b>						<b>0.00</b>

**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**.

						<b>Accumulated Totals</b>
Earthwork						0.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix						0.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces						0.00
Highway,R.R. and Waterway Structures						0.00
Drainage						0.00
Electrical						0.00
Cover and Seal Coats						0.00
Concrete Construction						0.00
Landscaping						0.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planning & Rotomilling						0.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List)						0.00
						0.00
<b>Totals</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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.



**Illinois Department  
of Transportation**

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

**Affidavit of Availability  
For the Letting of \_\_\_\_\_**  
(Letting date)

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

**Part I. Work Under Contract**

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

	1	2	3	4	Awards Pending	Accumulated Totals
Contract Number						
Contract With						
Estimated Completion Date						
Total Contract Price						
Uncompleted Dollar Value if Firm is the Prime Contractor						0.00
Uncompleted Dollar Value if Firm is the Subcontractor						0.00
<b>Total Value of All Work</b>						<b>0.00</b>

**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						0.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix						0.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces						0.00
Highway,R.R. and Waterway Structures						0.00
Drainage						0.00
Electrical						0.00
Cover and Seal Coats						0.00
Concrete Construction						0.00
Landscaping						0.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planning & Rotomilling						0.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List)						0.00
						0.00
						0.00
<b>Totals</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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.



**Illinois Department of Transportation**

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

**Affidavit of Availability  
 For the Letting of \_\_\_\_\_**

(Letting date)

**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						<b>Accumulated Totals</b>
Uncompleted Dollar Value if Firm is the Prime Contractor						<b>0.00</b>
Uncompleted Dollar Value if Firm is the Subcontractor						<b>0.00</b>
<b>Total Value of All Work</b>						<b>0.00</b>

**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**.

						<b>Accumulated Totals</b>
Earthwork						<b>0.00</b>
Portland Cement Concrete Paving						<b>0.00</b>
HMA Plant Mix						<b>0.00</b>
HMA Paving						<b>0.00</b>
Clean & Seal Cracks/Joints						<b>0.00</b>
Aggregate Bases & Surfaces						<b>0.00</b>
Highway,R.R. and Waterway Structures						<b>0.00</b>
Drainage						<b>0.00</b>
Electrical						<b>0.00</b>
Cover and Seal Coats						<b>0.00</b>
Concrete Construction						<b>0.00</b>
Landscaping						<b>0.00</b>
Fencing						<b>0.00</b>
Guardrail						<b>0.00</b>
Painting						<b>0.00</b>
Signing						<b>0.00</b>
Cold Milling, Planning & Rotomilling						<b>0.00</b>
Demolition						<b>0.00</b>
Pavement Markings (Paint)						<b>0.00</b>
Other Construction (List)						<b>0.00</b>
						<b>0.00</b>
						<b>0.00</b>
<b>Totals</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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.



# Illinois Department of Transportation

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

## Affidavit of Availability For the Letting of \_\_\_\_\_ (Letting date)

**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						<b>Accumulated Totals</b>
Uncompleted Dollar Value if Firm is the Prime Contractor						0.00
Uncompleted Dollar Value if Firm is the Subcontractor						0.00
<b>Total Value of All Work</b>						<b>0.00</b>

### 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**.

						<b>Accumulated Totals</b>
Earthwork						0.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix						0.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces						0.00
Highway, R.R. and Waterway Structures						0.00
Drainage						0.00
Electrical						0.00
Cover and Seal Coats						0.00
Concrete Construction						0.00
Landscaping						0.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planning & Rotomilling						0.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List)						0.00
						0.00
<b>Totals</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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.



**Illinois Department of Transportation**

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

**Affidavit of Availability**  
For the Letting of \_\_\_\_\_  
(Letting date)

**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						<b>Accumulated Totals</b>
Uncompleted Dollar Value if Firm is the Prime Contractor						0.00
Uncompleted Dollar Value if Firm is the Subcontractor						0.00
<b>Total Value of All Work</b>						<b>0.00</b>

**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**.

						<b>Accumulated Totals</b>
Earthwork						0.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix						0.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces						0.00
Highway, R.R. and Waterway Structures						0.00
Drainage						0.00
Electrical						0.00
Cover and Seal Coats						0.00
Concrete Construction						0.00
Landscaping						0.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planning & Rotomilling						0.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List)						0.00
						0.00
						0.00
<b>Totals</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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
<b>Subcontractor</b>					
<b>Type of Work</b>					
<b>Subcontract Price</b>					
<b>Amount Uncompleted</b>					
<b>Subcontractor</b>					
<b>Type of Work</b>					
<b>Subcontract Price</b>					
<b>Amount Uncompleted</b>					
<b>Subcontractor</b>					
<b>Type of Work</b>					
<b>Subcontract Price</b>					
<b>Amount Uncompleted</b>					
<b>Subcontractor</b>					
<b>Type of Work</b>					
<b>Subcontract Price</b>					
<b>Amount Uncompleted</b>					
<b>Subcontractor</b>					
<b>Type of Work</b>					
<b>Subcontract Price</b>					
<b>Amount Uncompleted</b>					
<b>Subcontractor</b>					
<b>Type of Work</b>					
<b>Subcontract Price</b>					
<b>Amount Uncompleted</b>					
<b>Subcontractor</b>					
<b>Type of Work</b>					
<b>Subcontract Price</b>					
<b>Amount Uncompleted</b>					
<b>Total Uncompleted</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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

Subscribed and sworn to before me

this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

Type or Print Name \_\_\_\_\_  
 Officer or Director \_\_\_\_\_ Title \_\_\_\_\_

\_\_\_\_\_  
 Notary Public

Signed \_\_\_\_\_

My commission expires: \_\_\_\_\_

Company \_\_\_\_\_

(Notary Seal)

Address \_\_\_\_\_

\_\_\_\_\_

**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					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
<b>Total Uncompleted</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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

Subscribed and sworn to before me

this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Type or Print Name \_\_\_\_\_  
Officer or Director Title

\_\_\_\_\_  
 Notary Public

Signed \_\_\_\_\_

My commission expires: \_\_\_\_\_

Company \_\_\_\_\_

(Notary Seal)

Address \_\_\_\_\_

\_\_\_\_\_

**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
<b>Subcontractor</b>					
<b>Type of Work</b>					
<b>Subcontract Price</b>					
<b>Amount Uncompleted</b>					
<b>Subcontractor</b>					
<b>Type of Work</b>					
<b>Subcontract Price</b>					
<b>Amount Uncompleted</b>					
<b>Subcontractor</b>					
<b>Type of Work</b>					
<b>Subcontract Price</b>					
<b>Amount Uncompleted</b>					
<b>Subcontractor</b>					
<b>Type of Work</b>					
<b>Subcontract Price</b>					
<b>Amount Uncompleted</b>					
<b>Subcontractor</b>					
<b>Type of Work</b>					
<b>Subcontract Price</b>					
<b>Amount Uncompleted</b>					
<b>Subcontractor</b>					
<b>Type of Work</b>					
<b>Subcontract Price</b>					
<b>Amount Uncompleted</b>					
<b>Subcontractor</b>					
<b>Type of Work</b>					
<b>Subcontract Price</b>					
<b>Amount Uncompleted</b>					
<b>Total Uncompleted</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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

Subscribed and sworn to before me

this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Type or Print Name \_\_\_\_\_  
Officer or Director Title

\_\_\_\_\_  
 Notary Public

Signed \_\_\_\_\_

My commission expires: \_\_\_\_\_

Company \_\_\_\_\_

(Notary Seal)

Address \_\_\_\_\_  
 \_\_\_\_\_



**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					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
<b>Total Uncompleted</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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

Subscribed and sworn to before me

this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

Type or Print Name \_\_\_\_\_  
 Officer or Director \_\_\_\_\_ Title \_\_\_\_\_

\_\_\_\_\_  
 Notary Public

Signed \_\_\_\_\_

My commission expires: \_\_\_\_\_

Company \_\_\_\_\_

(Notary Seal)

Address \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



## REPORT TRANSMITTAL

May 13<sup>th</sup>, 2015  
Revised May 26<sup>th</sup>, 2015

To: Richard Fortier  
Village of Hanover Park  
2041 Lake Street  
Hanover Park, IL 60133  
Office: 630.823.5652  
Fax: 630.823.5704

Re: **Geotechnical Engineering Services Report**  
Celebrity Circle Reconstruction  
Celebrity Circle  
Hanover Park, Illinois

Rubino Report No. G15.029

Via email: [rfortier@hpil.org](mailto:rfortier@hpil.org)

Dear Mr. Fortier,

Rubino Engineering, Inc. (Rubino) is pleased to submit our Geotechnical Engineering Services Report for the proposed Celebrity Circle Reconstruction in Hanover Park, Illinois

### Report Description

Enclosed is the Geotechnical Services Report including results of field and laboratory testing, as well as recommendations for general site development.

### Authorization and Correspondence History

- Rubino Proposal No. Q15.124g; Authorized by Thomas J. Moore of Village of Hanover Park on April 27<sup>th</sup>, 2015.

### Closing

Rubino appreciates the opportunity to provide geotechnical services for this project and we look forward to continued participation during the design and in future construction phases of this project.

If you have questions pertaining to this report, or if Rubino may be of further service, please contact our office at (847) 931-1555.

Respectfully submitted,

**RUBINO ENGINEERING, INC.**

Blake Sloan, EI  
Staff Engineer  
[Blake.sloan@rubinoeng.com](mailto:Blake.sloan@rubinoeng.com)

Michelle A. Lipinski, PE  
President  
[michelle.lipinski@rubinoeng.com](mailto:michelle.lipinski@rubinoeng.com)

MAL/file/ Enclosures

**CELEBRITY CIRCLE RECONSTRUCTION  
HANOVER PARK, ILLINOIS**

**RUBINO PROJECT No. G15.029**

***Geotechnical  
Services  
Report***

**PREPARED BY:**

**BLAKE SLOAN, EI  
STAFF ENGINEER**

**rubino**  
ENGINEERING INC.

---

**Michelle A. Lipinski, PE  
President  
IL No. 062-061241, Exp. 11/30/15**

**PREPARED FOR:**

**VILLAGE OF HANOVER PARK**

**2041 LAKE STREET  
HANOVER PARK, IL 60133**

**MAY 13<sup>TH</sup>, 2015**

**TABLE OF CONTENTS**

**PROJECT INFORMATION..... - 1 -**  
    PURPOSE/SCOPE OF SERVICES ..... - 1 -

**DRILLING, FIELD AND LABORATORY TESTING PROCEDURES..... - 2 -**  
    SITE LOCATION & DESCRIPTION..... - 2 -  
    SURFACE CONDITIONS..... - 3 -  
    SUBSURFACE CONDITIONS..... - 3 -  
    GROUNDWATER CONDITIONS ..... - 4 -

**EVALUATION AND RECOMMENDATIONS..... - 4 -**  
    GEOTECHNICAL DESIGN & CONSTRUCTION CONSIDERATIONS..... - 4 -  
    DEWATERING ..... - 5 -  
    PAVEMENT SUBGRADE PREPARATION ..... - 5 -  
    SUBGRADE STABILITY RECOMMENDATIONS ..... - 6 -  
    IBV BASED REMEDIAL ACTION CHART – IDOT ..... - 7 -  
    SUBBASE STONE RECOMMENDATIONS ..... - 8 -  
    ROADWAY DRAINAGE AND MAINTENANCE..... - 8 -  
    PAVEMENT RECOMMENDATIONS ..... - 9 -

**CLOSING..... - 9 -**

APPENDIX A - DRILLING, FIELD, AND LABORATORY TEST PROCEDURES  
APPENDIX B – REPORT LIMITATIONS  
APPENDIX C – SOIL CLASSIFICATION GENERAL NOTES  
APPENDIX D – SOIL CLASSIFICATION CHART  
APPENDIX E – SITE VICINITY MAP & BORING LOCATION PLAN  
APPENDIX F – BORING LOGS  
APPENDIX G – LABORATORY TESTS  
APPENDIX H – PAVEMENT CONSIDERATIONS & SPECIAL PROVISIONS

## **PROJECT INFORMATION**

Rubino understands that the Village of Hanover Park is planning to completely reconstruct Celebrity Circle in Hanover Park, Illinois. Roadway elevation are anticipated to stay the same.

### **Documents received:**

- RFP Email from Richard Fortier of The Village of Hanover Park on April 22<sup>nd</sup>, 2015.
- “Boring Location Map” – prepared by The Village of Hanover Park.

The geotechnical recommendations presented in this report are based on the available project information and the subsurface materials described in this report. If any of the information on which this report is based is incorrect, please inform Rubino in writing so that we may amend the recommendations presented in this report (if appropriate, and if desired by the client). Rubino will not be responsible for the implementation of our recommendations if we are not notified of changes in the project.

### ***Purpose/Scope of Services***

The purpose of this study was to explore the subsurface conditions at the site in order to prepare geotechnical recommendations for the 2015 Alley Designs in Westmont, Illinois. Rubino’s scope of services included the following drilling program:

<b>Number of Soil Borings</b>	<b>Depth (feet BEG*)</b>	<b>Location</b>
8	10	Celebrity Circle

\*BEG = below existing grade

Representative soil samples obtained during the field exploration program were transported to the laboratory for additional classification and laboratory testing.

This report briefly outlines the following:

- *Summary of client-provided project information and report basis*
- *Overview of encountered subsurface conditions*
- *Overview of field and laboratory tests performed including results*
- *Geotechnical recommendations pertaining to:*
  - *Subgrade preparation and stability*
  - *Recommendation of a proposed pavement thickness for comparison*
- *Construction considerations, including temporary excavation and construction control of water*

## **DRILLING, FIELD AND LABORATORY TESTING PROCEDURES**

The Village of Hanover Park selected the number of borings and the boring depths. Rubino located the borings in the field by measuring distances from known fixed site features. The borings were advanced utilizing 2 ¼ inch inside-diameter, hollow stem auger drilling methods and soil samples were routinely obtained during the drilling process.

Selected soil samples were tested in the laboratory to determine material properties for this report. Drilling, sampling, and laboratory tests were accomplished in general accordance with ASTM procedures. The following items are further described in the Appendix of this report.

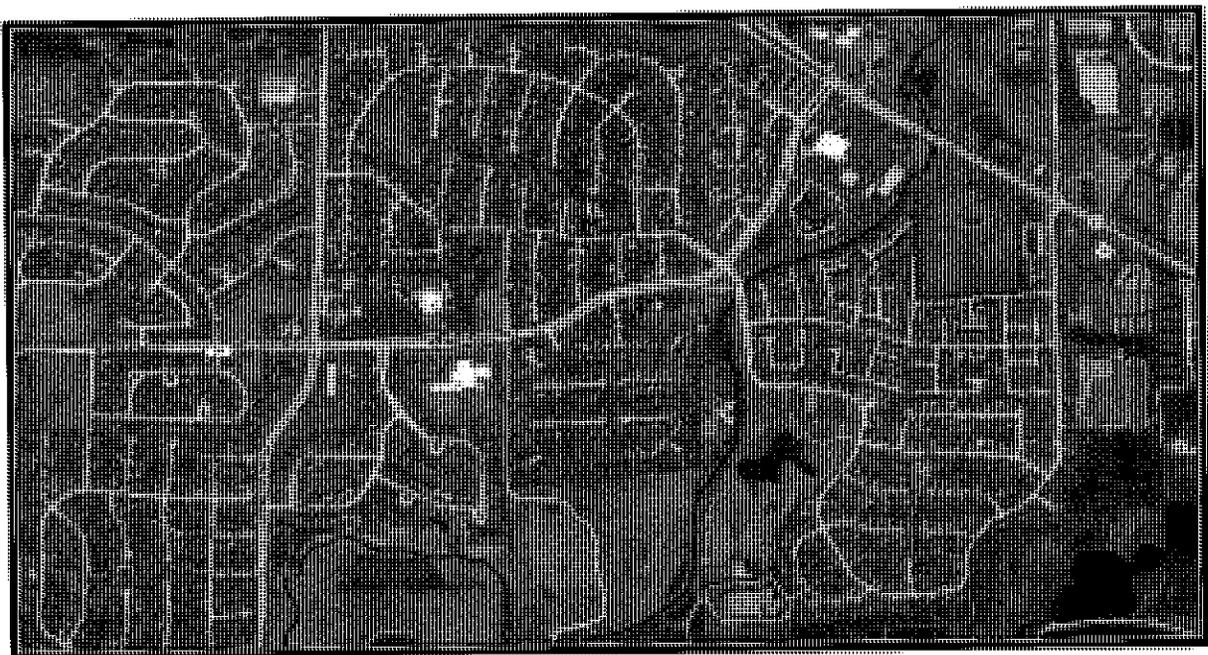
- *Field Penetration Tests and Split-Barrel Sampling of Soils*
- *Field Water Level Measurements*
- *Laboratory Determination of Water (Moisture) Content of Soil by Mass*
- *Laboratory Determination of Atterberg Limits*

The laboratory testing program was conducted in general accordance with applicable ASTM specifications. The results of these tests are to be found on the accompanying boring logs located in the Appendix.

## **SITE AND SUBSURFACE CONDITIONS**

### ***Site Location & Description***

The general site location of exploration included Celebrity Circle in Hanover Park, Illinois. The soil borings were taken within existing paved areas and the map below shows the general site location:



### Surface Conditions

The following table summarizes the encountered pavement section observed from the soil borings:

LOCATION	BORING No.	TOTAL OBSERVED ASPHALT THICKNESS (IN)	TOTAL OBSERVED BASE STONE THICKNESS (IN)	ESTIMATED EXISTING STRUCTURAL NUMBER
Celebrity Circle	B-01	5	N/A	2.0
Celebrity Circle	B-02	8	N/A	3.2
Celebrity Circle	B-03	9	N/A	3.6
Celebrity Circle	B-04	6	4	2.92
Celebrity Circle	B-05	5	N/A	2.0
Celebrity Circle	B-06	5	N/A	2.0
Celebrity Circle	B-07	6	7	3.31
Celebrity Circle	B-08	4	N/A	1.6

The above referenced thicknesses are considered approximate and based on visual classifications. Pavement and sub-base type and thickness may vary between core locations.

### Subsurface Conditions

Below the existing pavement section, subsurface conditions generally consisted of silty clay soils.

- The **native silty clay** soils generally had a medium stiff to very stiff consistency with a few pockets of softer soils.

Field and laboratory test results are summarized in the following table:

DEPTH RANGE (FT)	SOIL DESCRIPTION	SPT N-VALUES (BLOWS PER FOOT)	MOISTURE CONTENT (%)	ESTIMATED UNIT WEIGHT (PCF)	ESTIMATED SHEAR STRENGTH (PSF)	ESTIMATED UNCONFINED COMPRESSIVE STRENGTH, QU (TSF)
<b>Celebrity Circle</b>						
½ - 1	SAND	n/a	n/a	n/a	n/a	n/a
¾ - 6	Medium stiff to very stiff silty CLAY	7 - 17	16 - 24	125 - 135	1,000 - 2,500	1,800 - 3,500
6 - 10	Medium stiff to very stiff silty CLAY	8 - 26	16 - 23	125 - 135	1,200 - 3,000	2,000 - 3,500

The native soils were visually classified as silty clay (CL) according to the Unified Soil Classification System (USCS).

Estimated shear strength of coarse grained and fine grained soils is based on empirical correlations using N-values, moisture content, and unconfined compressive strength.

The thicknesses above are based on visual observation and are therefore approximate. The above table is a general summary of subsurface conditions. Please refer to the boring logs for more detailed information.

### Groundwater Conditions

The following table outlines areas where Groundwater was observed to collect within the soil borings:

LOCATION	GROUNDWATER DEPTH DURING DRILLING (FT)	GROUNDWATER DEPTH UPON COMPLETION (FT)
Celebrity Circle (B-07)	6½	6

It should be noted that fluctuations in the groundwater level should be anticipated throughout the year depending on variations in climatological conditions and other factors not apparent at the time the borings were performed. Additionally, discontinuous zones of perched water may exist within the soils. The possibility of groundwater level fluctuation should be considered when developing the design and construction plans for the project.

## EVALUATION AND RECOMMENDATIONS

### Geotechnical Design & Construction Considerations

The main geotechnical design and construction considerations at this site are:

- In general, the **asphalt thicknesses** ranged between 4 and 9 inches
- Based on the IBV values, undercuts have been estimated at varying thicknesses for most borings (see Subgrade Stability section below). Rubino recommends that the Village of Hanover Park plan for a 12 inch undercut with fabric as a contingency for failed proofrolls.
- The **subbase stone** ranged between 4 and 7 inches based on visual observation from the borehole.
  - **Subbase stone** was not observed in borings B-01, B-02, B-03, B-05, B-06, and B-08. Instead, a layer of sand was observed directly below the asphalt.
  - **Subbase stone** is an important part of the pavement structure and an increase in subbase stone should be incorporated into the new pavement design.
  - **Sub base stone** should be placed as soon as possible after the subgrade passes

proofrolling and density testing. Rain and construction traffic can affect the subgrade stability.

- **Subgrade soils** consisted of brown and gray silty clay with a medium stiff to very stiff consistency. See Subsurface Conditions section for more detailed information.
  - Subgrade soils were classified as silty clay and based on laboratory testing, generally fall into the high to very high “frost susceptible” category.
  - **Fine-grained soils** such as silts and clays are highly susceptible to moisture fluctuation and can become unstable when exposed to freeze/thaw cycles, additional moisture such as precipitation, and construction traffic.
  - Exposed soils with moisture contents greater than 25% and N-values less than 10 are more likely to fail a **proofroll**, especially when exposed to moisture or construction traffic.
  - During subgrade preparation, Rubino recommends that one of our representatives be onsite for typical **observations and documentation** of proofrolling and penetrometer testing of the pavement subgrade.
- Positive **drainage** of the subgrade soils combined with interceptor drains and positive surface drainage will help the life expectancy of the new pavement section. See the Roadway Drainage and Maintenance section for more information.

The geotechnical-related recommendations in this report are presented based on the subsurface conditions encountered and Rubino’s understanding of the project. Should changes in the project criteria occur, a review must be made by Rubino to determine if modifications to our recommendations will be necessary.

### ***Dewatering***

Dewatering may be necessary during excavation of saturated soils due to presence of sand seams or other conditions not apparent at the time of drilling. Shoring or trench boxes may be required where the soils are saturated. Please reference the groundwater elevations on the attached boring logs and in the Groundwater Conditions section of this report.

### ***Pavement Subgrade Preparation***

Prior to paving, the prepared subgrade should be proofrolled using a loaded tandem axle dump truck or similar type of pneumatic tired equipment with a minimum gross weight of 9 tons per single axle. Localized soft areas identified should be repaired prior to paving. Moisture content of the subgrade be maintained between -2% and +3% of the optimum at the time of paving. It may require rework when the subgrade is either desiccated or wet.

Areas of low support or soft spots should be tested with either a Static Cone Penetrometer (SCP) or Dynamic Cone Penetrometer (DCP). The results of the DCP or SCP tests should be evaluated according to IDOT’s Subgrade Stability Manual, to determine the necessary depth of corrective action.

Construction traffic should be minimized to prevent unnecessary disturbance of the pavement subgrade. Disturbed areas, as documented in the field by Rubino, should be removed and replaced with properly compacted material.

### **Subgrade Stability Recommendations**

The recommendations located in this report are based on the data obtained at each particular soil boring location. Soil subgrade stability may vary in the field between the borings and could be affected by the weather at the time of construction.

- Subgrade with an **IBV value of 5 or less is a candidate for remediation.**
- Optional remedial activities are specified for subgrade with an IBV values between 6 and 8.
- Subgrade with a moisture content exceeding 18% and an organic content exceeding 8% may be a candidate for remedial action.
- See attached IDOT IBV Based Remedial Action chart from the IDOT Subgrade Stability Manual for reference.

Based on the above criteria, the following boring locations have been highlighted for potential subgrade stabilization:

<b>BORING NUMBER</b>	<b>STREET NAME</b>	<b>ESTIMATED IBV VALUE</b>	<b>ESTIMATED UNDERCUT THICKNESS</b>
B-01	Celebrity Circle	3	12 - 18
B-02	Celebrity Circle	7*	0 – 12*
B-03	Celebrity Circle	4	6 - 12
B-04	Celebrity Circle	3	12 - 18
B-05	Celebrity Circle	4	6 - 12
B-06	Celebrity Circle	3	12 - 18
B-07	Celebrity Circle	4	6 - 12
B-08	Celebrity Circle	5	6 - 12

\*Remedial Procedures Optional

Unstable soil should be treated in accordance with Article 301.04 of the standard specifications and undercut guidelines in the IDOT Subgrade Stability Manual.

If unsuitable soils are removed and the area is still wet or unstable, the underlying soils may be stabilized by “walking-in” consecutive layers of approximately 6 inches of 3-inch crushed stone placed on the subgrade until the voids of the 3-inch stone are filled with the soft soil. Construction grades may then be established using CA-6 stone, or the native soils following moisture conditioning. A layer of geotextile should be placed between the 3-inch stone / clay mixture and an open-graded stone, if applicable.

**IBV Based Remedial Action Chart – IDOT**

Reference IDOT Subgrade Stability Manual 2005

**IBV BASED REMEDIAL ACTION**

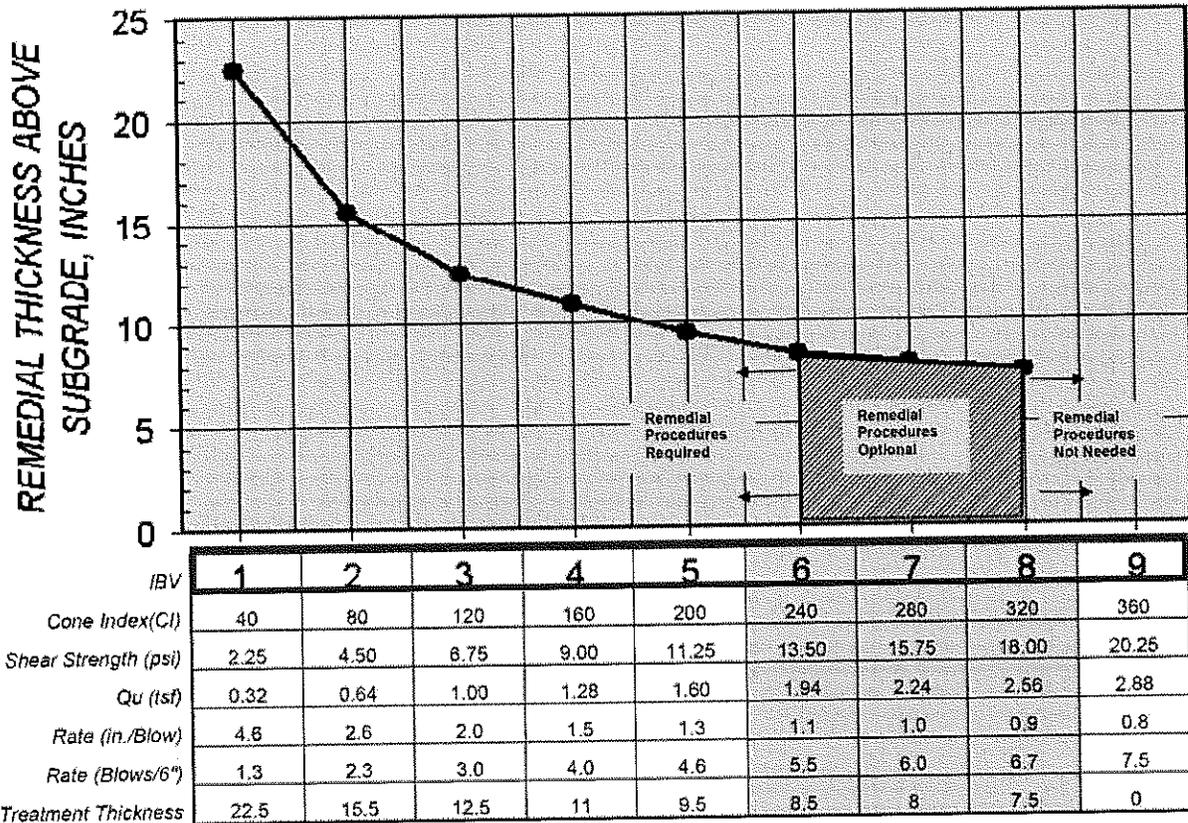


Figure A-2. Thickness design as a function of IBV, CI, Shear Strength, and  $Q_u$  for subgrade treatment (granular backfill or modified soil).

### **Subbase Stone Recommendations**

Due to the current variability of subgrade stone along the roadway, Rubino recommends that a more consistent subbase thickness be placed as part of the reconstruction. Where the soil needs to be amended, additional stone can be placed which would increase the subbase stone thickness.<sup>8</sup>

The granular base course should be built at least 2 feet wider than the pavement on each side to support the tracks of the slipform paver. This extra width is structurally beneficial for wheel loads applied at pavement edge.

An IDOT CA-6 aggregate base rock (IDOT Specifications Handbook, Sec. 1004.1) can be used under the asphalt or concrete pavements. The material should be placed and compacted as discussed in the Fill Materials section of this report.

Rubino recommends a drainage system be designed to keep water out of the base material since CA-6 contains fines which could become unstable when saturated. See the Roadway Drainage and Maintenance section below for more information.

### **Roadway Drainage and Maintenance**

Fine-grained soils can be sensitive to remolding in the presence of water. In the areas of surficial clays, the surface should be maintained in a graded condition to prevent standing water on the subgrade. Appropriate measures may include, but are not limited to:

1. Shaping/pitching the sub-grade to drain toward side drainage ditch along the roadway.
2. Providing proper filtration for runoff waters. Proper drainage of the roadway is mandated by Article 202.05 of the IDOT Standard Specifications.
3. Rubino recommends placing CA-6 as the fill at the interface of clay and the new roadway. If open-graded stone is used, a geotextile should be placed between the fine-grained soil and the stone.
4. Rubino recommends pavements be sloped to provide rapid surface drainage. Water allowed to pond on or adjacent to the pavement could saturate the subgrade and cause premature deterioration of pavements, and removal and replacement may be required.
5. Consideration should be given to the use of an interceptor drain to collect and remove water collecting in the granular base. The interceptor drains could be incorporated with the storm drains of other utilities located in the pavement areas.
6. Periodic maintenance of the pavement should be anticipated. This should include sealing of cracks and joints and by maintaining proper surface drainage to avoid ponding of water on or near the pavement area.

**Pavement Recommendations**

Based on the boring information in the proposed pavement areas, Rubino believes the existing soils at this site will have a subgrade pavement bearing characteristic typical of soil with an IBR value of 3. Subgrade stability should be checked during construction by performing a proofroll on the soils prior to placing subbase stone. Based on this value, it is possible to use the Illinois Bureau of Local Roads & Streets pavement section consisting of the following:

<b>Pavement Recommendations</b>	
<b>Pavement Materials</b>	<b>Minimum Thickness (in) based on a IBR of 3</b>
Asphaltic Surface Course	1½
Asphaltic Binder Course	2½
Base Aggregate	6 to 8

In large areas of pavement, or where pavements are subject to significant traffic, a more detailed analysis of the subgrade and traffic conditions should be made. The results of such a study will provide information necessary to design an economical and serviceable pavement. Additional pavement considerations and special provisions are located in the Appendix of this report.

**CLOSING**

The recommendations submitted are based on the available subsurface information obtained by Rubino Engineering, Inc. and design details furnished by The Village of Hanover Park for the proposed project. If there are any revisions to the plans for this project or if deviations from the subsurface conditions noted in this report are encountered during construction, Rubino should be notified immediately to determine if changes in the pavement recommendations are required. If Rubino is not retained to perform these functions, we will not be responsible for the impact of those conditions on the project.

The scope of services did not include an environmental assessment to determine the presence or absence of wetlands, or hazardous or toxic materials in the soil, bedrock, surface water, groundwater or air, on, or below or around this site. Any statements in this report and/or on the boring logs regarding odors, colors, and/or unusual or suspicious items or conditions are strictly for informational purposes.

After the plans and specifications are more complete, the geotechnical engineer should be retained and provided the opportunity to review the final design plans and specifications to check that our engineering recommendations have been properly incorporated into the design documents. At that time, it may be necessary to submit supplementary recommendations. This report has been prepared for the exclusive use of The Village of Hanover Park and their consultants for the specific application to the Celebrity Circle Reconstruction in Hanover Park, Illinois.

## **APPENDIX A - DRILLING, FIELD, AND LABORATORY TEST PROCEDURES**

### ***Penetration Tests and Split-Barrel Sampling of Soils***

During the sampling procedure, Standard Penetration Tests (SPT's) were performed at regular intervals to obtain the standard penetration (N-value) of the soil. The results of the standard penetration test are used to estimate the relative strength and compressibility of the soil profile components through empirical correlations to the soils' relative density and consistency. The split-barrel sampler obtains a soil sample for classification purposes and laboratory testing, as appropriate for the type of soil obtained.

### ***Water Level Measurements***

Water level observations were attempted during and upon completion of the drilling operation using a 100-foot tape measure. The depths of observed water levels in the boreholes are noted on the boring logs presented in the appendix of this report. In the borings where water is unable to be observed during the field activities, in relatively impervious soils, the accurate determination of the groundwater elevation may not be possible even after several days of observation. Seasonal variations, temperature and recent rainfall conditions may influence the levels of the groundwater table and volumes of water will depend on the permeability of the soils.

### ***Ground Surface Elevations***

The elevations indicated on the attached boring logs were estimated from existing site surveys provided by the client. The stratification depths are relative to the existing ground surface for each individual boring at the time of the exploration. Copies of the boring logs are located in the Appendix of this report.

### ***Water (Moisture) Content of Soil by Mass (Laboratory)***

The water content is an important index property used in expressing the phase relationship of solids, water, and air in a given volume of material and can be used to correlate soil behavior with its index properties. In fine grained cohesive soils, the behavior of a given soil type often depends on its natural water content. The water content of a cohesive soil along with its liquid and plastic limits as determined by Atterberg Limit testing are used to express the soil's relative consistency or liquidity index.

### ***Atterberg Limits (Laboratory)***

Atterberg limit testing defines the liquid limit (LL) and plastic limit (PL) states of a given soil. These limits are used to determine the moisture content limits where the soil characteristics changes from behaving more like a fluid on the liquid limit end to where the soil behaves more like individual soil particles on the plastic limit end. The liquid limit is often used to determine if a soil is a low or high plasticity soil.

The plasticity index (PI) is difference between the liquid limit and the plastic limit. The plasticity index is used in conjunction with the liquid limit to determine if the material will behave like a silt or clay. The material can also be classified as an organic material by comparing the liquid limit of the natural material to the liquid limit of the sample after being oven-dried.

### ***Particle Size Analysis of Soils (Hydrometer)***

The Particle Size Analysis of Soils determines the distribution of particle sizes in soils. The distribution of particle sizes larger than 75 $\mu$ m (retained on the No. 200 sieve) is determined by sieving, while the distribution of particle sizes smaller than 75 $\mu$ m is determined by a sedimentation process, using a hydrometer to secure the necessary data.

## **APPENDIX B - REPORT LIMITATIONS**

### **Subsurface Conditions:**

The subsurface description is of a generalized nature to highlight the major subsurface stratification features and material characteristics. The boring logs included in the appendix should be reviewed for specific information at individual boring locations. These records include soil descriptions, stratifications, penetration resistances, locations of the samples and laboratory test data as well as water level information. The stratifications shown on the boring logs represent the conditions only at the actual boring locations. Variations may occur, and should be expected between boring locations. The stratifications represent the approximate boundary between subsurface materials and the actual transition between layers may be gradual. The samples, which were not altered by laboratory testing, will be retained for up to 60 days from the date of this report and then will be discarded.

### **Geotechnical Risk:**

The concept of risk is an important aspect of the geotechnical evaluation. The primary reason for this is that the analytical methods used to develop geotechnical recommendations do not comprise an exact science. The analytical tools that geotechnical engineers use are generally empirical and must be used in conjunction with engineering judgment and experience. Therefore, the solutions and recommendations presented in the geotechnical evaluation should not be considered risk-free, and more importantly, are not a guarantee that the interaction between the soils and the proposed structure will perform as planned. The engineering recommendations, presented in the preceding section, constitute Rubino's professional estimate of the necessary measures for the proposed structure to perform according to the proposed design based on the information generated and reference during this evaluation, and Rubino's experience in working with these conditions.

### **Warranty:**

The geotechnical engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been made in accordance with generally accepted professional geotechnical engineering practices in the local area. No other warranties are implied or expressed.

### **Federal Excavation Regulations:**

In Federal Register, Volume 54, No. 209 (October 1989), the United States Department of Labor, Occupational Safety and Health Administration (OSHA) amended its "Construction Standards for Excavations, 29 CFR, part 1926, Subpart P". This document was issued to better insure the safety of workmen entering trenches or excavations. This federal regulation mandates that all excavations, whether they be utility trenches, basement excavation or footing excavations, be constructed in accordance with the new OSHA guidelines. It is our understanding that these regulations are being strictly enforced and if they are not closely followed, the owner and the contractor could be liable for substantial penalties.

The contractor is solely responsible for designing and constructing stable, temporary excavations and should shore, slope, or bench the sides of the excavations as required to maintain stability of both the excavation sides and bottom. The contractor's "responsible person," as defined in 29 CFR Part 1926, should evaluate the soil exposed in the excavations as part of the contractor's safety procedures. In no case should slope height, slope inclination, or excavation depth, including utility trench excavation depth, exceed those specified in local, state, and federal safety regulations. Rubino is providing this information solely as a service to our client. Rubino is not assuming responsibility for construction site safety or the contractor's activities; such responsibility is not being implied and should not be inferred.

## APPENDIX C - SOIL CLASSIFICATION GENERAL NOTES

### DRILLING & SAMPLING SYMBOLS:

SS: Split Spoon - 1 3/8" I.D., 2" O.D., unless otherwise noted  
 ST: Thin-Walled Tube - 3" O.D., Unless otherwise noted  
 PM: Pressuremeter  
 RB: Rock Bit  
 DB: Diamond Bit - 4", N, B

PS: Piston Sample  
 WS: Wash Sample  
 HA: Hand Auger  
 HS: Hollow Stem Auger  
 BS: Bulk Sample

Standard "N" Penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2 inch O.D. split spoon sampler (SS), except where noted.

### WATER LEVEL MEASUREMENT SYMBOLS:

Water levels indicated on the boring logs are the levels measured in the borings at the times indicated. In pervious soils, the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of ground water levels is not possible with only short term observations.

### DESCRIPTIVE SOIL CLASSIFICATION:

Soil Classification is based on the Unified Soil Classification System as defined in ASTM D-2487 and D-2488. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; they are described as: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are described as: clays, if they are plastic, and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse grained soils are defined on the basis of their relative in-place density and fine grained soils on the basis of their consistency. Example: Lean clay with sand, trace gravel, stiff (CL); silty sand, trace gravel, medium dense (SM).

#### CONSISTENCY OF FINE-GRAINED SOILS:

#### RELATIVE DENSITY OF COARSE-GRAINED SOILS

Unconfined Compressive Strength, Qu (tsf)		N-Blows/ft.	Consistency	N-Blows/ft.	Relative Density
<	0.25	< 2	Very Soft	0 - 4	Very Loose
0.25	- 0.5	2 - 4	Soft	4 - 10	Loose
0.5	- 1	4 - 8	Medium Stiff	10 - 30	Medium Dense
1	- 2	8 - 15	Stiff	30 - 50	Dense
2	- 4	15 - 30	Very Stiff	50 +	Very Dense
4	- 8	30 +	Hard		

#### RELATIVE PROPORTIONS OF SAND & GRAVEL

#### GRAIN SIZE TERMINOLOGY

Descriptive Term	% of Dry Weight
Trace	< 15
With	15 - 29
Modifier	> 30

Major Component	Size Range
Boulders	Over 12 in. (300mm)
Cobbles	12 in. To 3 in. (300mm to 75mm)
Gravel	3 in. To #4 sieve (75mm to 4.75mm)
Sand	#4 to #200 sieve (4.75mm to 0.75mm)

#### RELATIVE PROPORTIONS OF FINES

Descriptive Term	% of Dry Weight
Trace	< 5
With	5 - 12
Modifier	> 12

\*Descriptive Terms apply to components also present in sample

## APPENDIX D- SOIL CLASSIFICATION GENERAL NOTES

### SOIL CLASSIFICATION CHART

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS			
			GRAPH	LETTER				
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS		<b>GW</b>	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES			
		(LITTLE OR NO FINES)		<b>GP</b>	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES			
		GRAVELS WITH FINES		<b>GM</b>	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES			
		(APPRECIABLE AMOUNT OF FINES)		<b>GC</b>	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES			
	MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	SAND AND SANDY SOILS	CLEAN SANDS		<b>SW</b>	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES		
			(LITTLE OR NO FINES)		<b>SP</b>	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES		
		SANDS WITH FINES	(APPRECIABLE AMOUNT OF FINES)		<b>SM</b>	SILTY SANDS, SAND - SILT MIXTURES		
			(APPRECIABLE AMOUNT OF FINES)		<b>SC</b>	CLAYEY SANDS, SAND - CLAY MIXTURES		
			FINE GRAINED SOILS	SILTS AND CLAYS	Liquid Limit LESS THAN 50		<b>ML</b>	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
					Liquid Limit LESS THAN 50		<b>CL</b>	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
Liquid Limit LESS THAN 50		<b>OL</b>	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY					
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	Liquid Limit GREATER THAN 50		<b>MH</b>	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS			
				<b>CH</b>	INORGANIC CLAYS OF HIGH PLASTICITY			
				<b>OH</b>	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS			
HIGHLY ORGANIC SOILS				<b>PT</b>	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS			

**APPENDIX E – SITE VICINITY MAP & BORING LOCATION PLAN**



**rubino**  
ENGINEERING INC.

665 Tollgate Rd. Unit H  
Elgin, Illinois 60123

**Project Name:**

**Project Location:**

**Client:**

**Rubino Project # :**

Celebrity Circle Reconstruction

Celebrity Circle

Hanover Park, Illinois

Village of Hanover Park

G15.029

**Site  
Vicinity  
Map**



**rubino**  
ENGINEERING INC.

665 Tollgate Rd. Unit H  
Elgin, Illinois 60123

**Project Name:**

Celebrity Circle Reconstruction

**Project Location:**

Celebrity Circle

Hanover Park, Illinois

**Client:**

Village of Hanover Park

**Rubino Project # :**

G15.029

**Boring  
Location  
Plan**

**APPENDIX F – BORING LOGS**

Rubino Job No.: G15.029  
Project: Celebrity Circle Reconstruction  
Location: Celebrity Circle  
City, State: Hanover Park, Illinois  
Client: Village of Hanover Park

Drilling Method: 2 1/4" Hollow Stem Auger  
Sampling Method: Split Spoon  
Hammer Type: CME Automatic  
Boring Location: West Celebrity Circle  
Hanover Park, Illinois

WATER LEVELS	
▽ While Drilling	N/A
▽ Upon Completion	N/A
▽ Delay	N/A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks
										Moisture, %	Moisture	
0							Approximately 5 inches of ASPHALT					
							Brown SAND, trace gravel and fines	SP				
				1	12		Brown silty CLAY, trace sand and gravel; Medium stiff to stiff		1,3,4 N=7	21	⊗ ← ⊕	LL = 43 PL = 19
				2	18				2,3,6 N=9	24	⊗ ⊗	
5				3	18			CL	2,4,7 N=11	23	⊗ ⊗	
				4	18				2,4,7 N=11	21	⊗ ⊗	
10							End of boring at 10 feet. No free groundwater was encountered during drilling operations.					

Completion Depth: 10.0 ft  
Date Boring Started: 5/6/15  
Date Boring Completed: 5/6/15  
Logged By: B.S.  
Drilling Contractor: G.T.C.

Sample Types:  
 Auger Cutting  
 Split-Spoon  
 Rock Core  
 Shelby Tube  
 Hand Auger  
 Texas Cone

Latitude:  
Longitude:  
Drill Rig: CME 75  
Remarks:

The stratification lines represent approximate boundaries. The transition may be gradual.

Rubino Job No.: G15.029  
Project: Celebrity Circle Reconstruction  
Location: Celebrity Circle  
City, State: Hanover Park, Illinois  
Client: Village of Hanover Park

Drilling Method: 2 1/4" Hollow Stem Auger  
Sampling Method: Split Spoon  
Hammer Type: CME Automatic  
Boring Location: East Celebrity Circle  
Hanover Park, Illinois

WATER LEVELS	
▽ While Drilling	N/A
▽ Upon Completion	N/A
▽ Delay	N/A

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks
										Moisture, %	Moisture, %	
0							Approximately 8 inches of ASPHALT					
							Brown SAND, trace gravel and fines	SP				
				1	16		Brown silty CLAY, trace sand and gravel; Very stiff		1,4,13 N=17	16	⊗	
				2	18			CL	3,5,11 N=16	18	⊗	
5				3	18				5,12,14 N=26	19	⊗	
				4	18		Gray silty CLAY, trace sand and gravel; Very stiff	CL	5,10,14 N=24	18	⊗	
10							End of boring at 10 feet. No free groundwater was encountered during drilling operations.					

Completion Depth: 10.0 ft  
Date Boring Started: 5/6/15  
Date Boring Completed: 5/6/15  
Logged By: B.S.  
Drilling Contractor: G.T.C.

Sample Types:  
 Auger Cutting  
 Split-Spoon  
 Rock Core  
 Shelby Tube  
 Hand Auger  
 Texas Cone

Latitude:  
Longitude:  
Drill Rig: CME 75  
Remarks:

The stratification lines represent approximate boundaries. The transition may be gradual.

Rubino Job No.: G15.029  
Project: Celebrity Circle Reconstruction  
Location: Celebrity Circle  
City, State: Hanover Park, Illinois  
Client: Village of Hanover Park

Drilling Method: 2 1/4" Hollow Stem Auger  
Sampling Method: Split Spoon  
Hammer Type: CME Automatic  
Boring Location: East Celebrity Circle  
Hanover Park, Illinois

WATER LEVELS	
▽ While Drilling	N/A
▽ Upon Completion	N/A
▽ Delay	N/A

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks
										Moisture, %	Moisture, %	
0	0	ASPHALT					Approximately 9 inches of ASPHALT					
	1			1	14		Brown SAND, trace gravel and fines	SP	3,3,7 N=10	23	Moisture: 23% PL = 43 LL = 23	
	2			2	18		Brown silty CLAY, trace sand and gravel; Stiff to very stiff		3,5,8 N=13	16		
5								CL				
	3			3	18				4,5,9 N=14	19		
	4			4	18				3,7,13 N=20	20		
10							End of boring at 10 feet. No free groundwater was encountered during drilling operations.					

Completion Depth: 10.0 ft	Sample Types:	Latitude:
Date Boring Started: 5/6/15	Auger Cutting	Longitude:
Date Boring Completed: 5/6/15	Split-Spoon	Drill Rig: CME 75
Logged By: B.S.	Rock Core	Remarks:
Drilling Contractor: G.T.C.	Shelby Tube	
	Hand Auger	
	Texas Cone	

The stratification lines represent approximate boundaries. The transition may be gradual.

Rubino Job No.: G15.029  
Project: Celebrity Circle Reconstruction  
Location: Celebrity Circle  
City, State: Hanover Park, Illinois  
Client: Village of Hanover Park

Drilling Method: 2 1/4" Hollow Stem Auger  
Sampling Method: Split Spoon  
Hammer Type: CME Automatic  
Boring Location: East Celebrity Circle  
Hanover Park, Illinois

WATER LEVELS	
▽ While Drilling	N/A
▽ Upon Completion	N/A
▽ Delay	N/A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks
										Moisture, %	Moisture	
	0						Approximately 6 inches of ASPHALT					
							Approximately 4 inches of GRAVEL BASE					
							Brown silty CLAY, trace sand and gravel; Medium stiff to very stiff					
				1	18			CL	2,2,5 N=7	19	⊗	×
				2	18			CL	2,4,6 N=10	21	⊗	×
	5			3	18			CL	2,5,10 N=15	22	⊗	×
				4	18		Gray silty CLAY, trace sand and gravel; Stiff	CL	3,5,7 N=12	21	⊗	×
	10						End of boring at 10 feet. No free groundwater was encountered during drilling operations.					

Completion Depth: 10.0 ft	Sample Types:	Latitude:
Date Boring Started: 5/6/15	Auger Cutting	Longitude:
Date Boring Completed: 5/6/15	Split-Spoon	Drill Rig: CME 75
Logged By: B.S.	Rock Core	Remarks:
Drilling Contractor: G.T.C.	Shelby Tube	
	Hand Auger	
	Texas Cone	

The stratification lines represent approximate boundaries. The transition may be gradual.

Rubino Job No.: G15.029  
Project: Celebrity Circle Reconstruction  
Location: Celebrity Circle  
City, State: Hanover Park, Illinois  
Client: Village of Hanover Park

Drilling Method: 2 1/4" Hollow Stem Auger  
Sampling Method: Split Spoon  
Hammer Type: CME Automatic  
Boring Location: East Celebrity Circle  
Hanover Park, Illinois

WATER LEVELS	
▽ While Drilling	N/A
▽ Upon Completion	N/A
▽ Delay	N/A

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks
										Moisture, %	STRENGTH, tsf	
0		Approximately 5 inches of ASPHALT										
		Brown SAND, trace gravel and fines						SP				
		Brown silty CLAY, trace sand and gravel; Stiff to very stiff										
	1			1	16				2,3,6 N=9	21	⊗	LL = 41 PL = 21
	2			2	18				3,7,10 N=17	21	⊗	
5								CL				
	3			3	18				3,7,10 N=17	20	⊗	
	4			4	18				3,9,12 N=21	20	⊗	
10							End of boring at 10 feet. No free groundwater was encountered during drilling operations.					

Completion Depth: 10.0 ft	Sample Types:	Latitude:
Date Boring Started: 5/6/15	Auger Cutting	Longitude:
Date Boring Completed: 5/6/15	Split-Spoon	Drill Rig: CME 75
Logged By: B.S.	Rock Core	Remarks:
Drilling Contractor: G.T.C.	Shelby Tube	
	Hand Auger	
	Texas Cone	

The stratification lines represent approximate boundaries. The transition may be gradual.

Rubino Job No.: G15.029  
Project: Celebrity Circle Reconstruction  
Location: Celebrity Circle  
City, State: Hanover Park, Illinois  
Client: Village of Hanover Park

Drilling Method: 2 1/4" Hollow Stem Auger  
Sampling Method: Split Spoon  
Hammer Type: CME Automatic  
Boring Location: West Celebrity Circle  
Hanover Park, Illinois

WATER LEVELS	
▽ While Drilling	N/A
▽ Upon Completion	N/A
▽ Delay	N/A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks
										Moisture, %	Moisture, %	
0		Approximately 5 inches of ASPHALT										
		Brown SAND, trace gravel and fines						SP				
		Brown silty CLAY, trace sand and gravel; Medium stiff to very stiff										
	1			1	16				2,3,5 N=8	20	⊙	X
	2			2	18				2,2,5 N=7	20	⊙	X
5								CL				
	3			3	18				3,4,9 N=13	16	⊙X	
	4			4	18				2,5,11 N=16	17	⊙X	
10							End of boring at 10 feet. No free groundwater was encountered during drilling operations.					

Completion Depth: 10.0 ft	Sample Types:	Latitude:
Date Boring Started: 5/6/15	Auger Cutting	Longitude:
Date Boring Completed: 5/6/15	Split-Spoon	Drill Rig: CME 75
Logged By: B.S.	Rock Core	Remarks:
Drilling Contractor: G.T.C.	Shelby Tube	
	Hand Auger	
	Texas Cone	

The stratification lines represent approximate boundaries. The transition may be gradual.

Rubino Job No.: G15.029  
Project: Celebrity Circle Reconstruction  
Location: Celebrity Circle  
City, State: Hanover Park, Illinois  
Client: Village of Hanover Park

Drilling Method: 2 1/4" Hollow Stem Auger  
Sampling Method: Split Spoon  
Hammer Type: CME Automatic  
Boring Location: West Celebrity Circle  
Hanover Park, Illinois

WATER LEVELS	
▽ While Drilling	6.5 FT
▽ Upon Completion	6 FT
▽ Delay	N/A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks
										Moisture, %	Moisture, %	
0							Approximately 6 inches of ASPHALT					
							Approximately 7 inches of GRAVEL BASE					
				1	16		Brown silty CLAY, trace sand and gravel; Stiff to very stiff		2,5,6 N=11	24	⊗	LL = 24 PL = 16
				2	18				3,6,10 N=16	19	⊗	
5				3	18				3,5,8 N=13	20	⊗	
				4	18				2,4,8 N=12	21	⊗	
10							End of boring at 10 feet.					

Completion Depth: 10.0 ft	Sample Types:	Latitude:
Date Boring Started: 5/6/15	Auger Cutting	Longitude:
Date Boring Completed: 5/6/15	Split-Spoon	Drill Rig: CME 75
Logged By: B.S.	Rock Core	Remarks:
Drilling Contractor: G.T.C.	Shelby Tube	
	Hand Auger	
	Texas Cone	

The stratification lines represent approximate boundaries. The transition may be gradual.

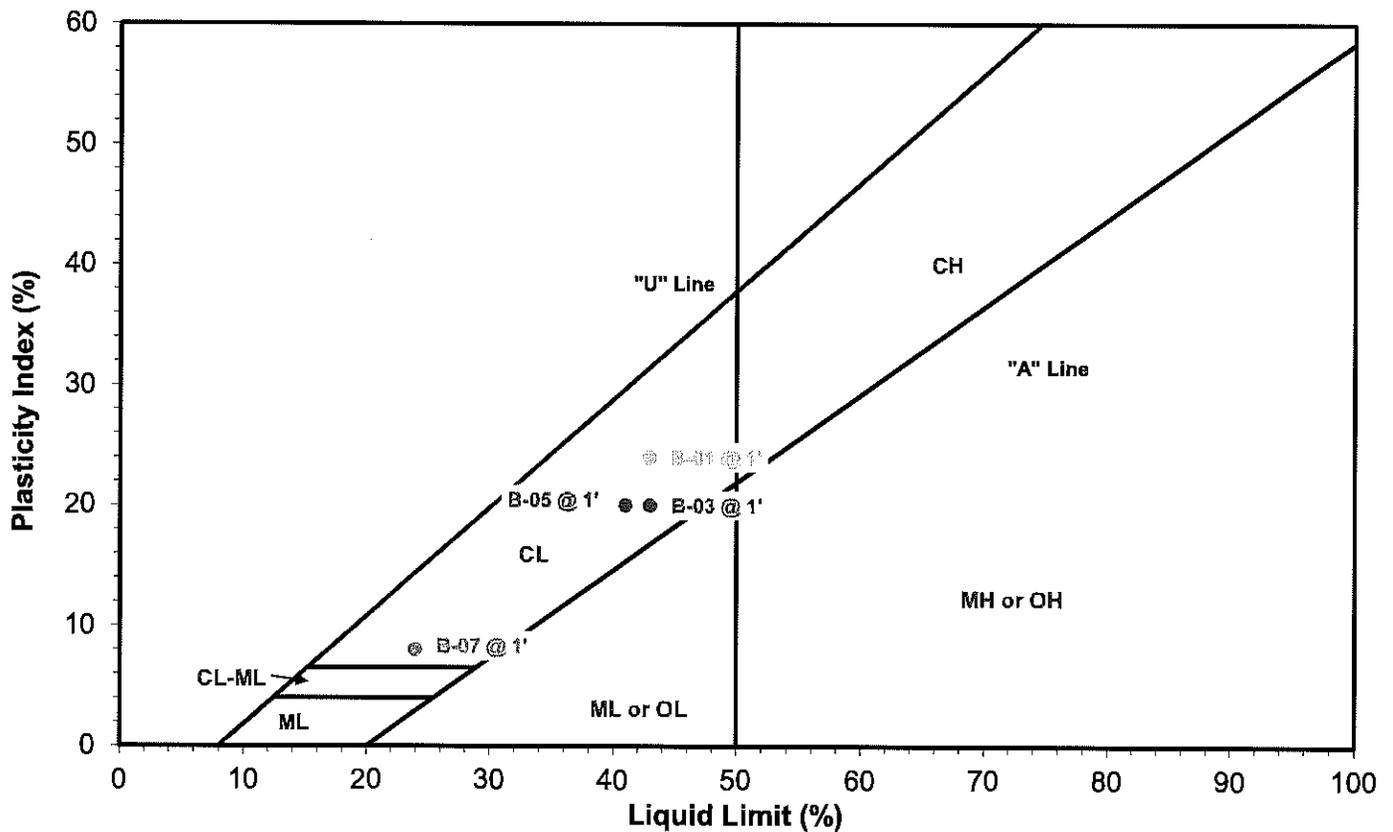
Rubino Job No.: G15.029	Drilling Method: 2 1/4" Hollow Stem Auger	<b>WATER LEVELS</b>	
Project: Celebrity Circle Reconstruction	Sampling Method: Split Spoon	▽ While Drilling	N/A
Location: Celebrity Circle	Hammer Type: CME Automatic	▼ Upon Completion	N/A
City, State: Hanover Park, Illinois	Boring Location: West Celebrity Circle	▽ Delay	N/A
Client: Village of Hanover Park	Hanover Park, Illinois		

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STANDARD PENETRATION TEST DATA		Additional Remarks
											X Moisture      □ PL ○                      + LL ▲ Qu                      * Qp		
	0						Approximately 4 inches of ASPHALT	SP					
							Brown SAND, trace gravel and fines						
				1	16		Brown silty CLAY, trace sand and gravel; Medium stiff to stiff	CL	2,4,9 N=13	19	○	X	
				2	18				2,6,8 N=14	19	○	X	
	5			3	18				2,2,6 N=8	21	○	X	
				4	18		Gray silty CLAY, trace sand and gravel; Stiff		2,3,7 N=10	21	○	X	
	10						End of boring at 10 feet. No free groundwater was encountered during drilling operations.						

Completion Depth: 10.0 ft	Sample Types:	Latitude:
Date Boring Started: 5/6/15	Auger Cutting	Longitude:
Date Boring Completed: 5/6/15	Split-Spoon	Drill Rig: CME 75
Logged By: B.S.	Rock Core	Remarks:
Drilling Contractor: G.T.C.	Shelby Tube	
	Hand Auger	
	Texas Cone	

The stratification lines represent approximate boundaries. The transition may be gradual.

**APPENDIX G – LABORATORY TESTS**



Boring #	B-01 @ 1'	B-03 @ 1'	B-05 @ 1'	B-07 @ 1'	<b>Project:</b> Celebrity Circle Reconstruction <b>Location:</b> Hanover Park, Illinois <b>Client:</b> Village of Hanover Park <b>Project #:</b> G15.029
LL	43	43	41	24	
PL	19	23	21	16	
PI	24	20	20	8	

**APPENDIX H – PAVEMENT CONSIDERATIONS & SPECIAL PROVISIONS**

## SPECIAL PROVISION

### HOT-MIX ASPHALT BINDER, LEVEL BINDER, AND SURFACE COURSE

The Hot Mix Asphalt mix design, production, and construction (materials, machinery, and methods) shall conform to the specific requirements of the standard specifications for Road and Bridge Construction adopted by the Illinois Department of Transportation and Special Provisions for Hot Mix Asphalt mixtures and as modified hereinafter.

**Hot-Mix Asphalt Mixtures:** The contractor shall submit mix designs, for approval, for each required mixture, at least one week in advance.

**Surface:** N50 Hot-Mix Asphalt 9.5-mm Surface Course Mix "C or D" and Level Binder  
The AJMF during production shall have a minimum of 40% passing on the #8 sieve and still meet IDOT volumetric requirements.

**Binder:** N50 Hot-Mix Asphalt 19.0-mm Binder Course Mix 'B'  
The AJMF during production shall have a minimum of 40% passing on the #4 sieve and still meet IDOT volumetric requirements.

### HOT-MIX ASPHALT MIXTURE REQUIREMENTS

ITEM	AC TYPE Overlay	AC TYPE Full Depth	AIR VOIDS
Hot-Mix Asphalt Surface Course, Mix "C / D," N50	PG 58-22 / 58-28*	PG58-28 / 46-34*	3.5% @ 50 GYR
Leveling Binder (Machine Method), N50	PG 58-22 / 58-28*	PG58-28 / 46-34*	3.5% @ 50 GYR
Hot-Mix Asphalt Binder Course, IL-19, N50	PG 58-22 / 58-28*	PG58-28 / 46-34* PG58-28 when below 4" in depth	3.5% @ 50 GYR

1. All production shall trend about 3.5% Air Voids.
2. Re-proportioning (within SSRBC adjustments allowed) of IDOT verified mix designs may be allowed and the contractor must submit these values for a review by the Engineer at least one week prior to the first day of production.
3. One field TSR test by the Contractor will be required to validate changes.
4. The AJMF submitted and during production shall meet remaining IDOT volumetric requirements.
5. When Asphalt Binder Replacement (ABR) exceeds 15%, the new asphalt binder in the mix shall be changed as noted above. No more than 30% ABR and no more than 2.0% Reclaimed Asphalt Shingles (RAS) shall be allowed in the asphalt.