

If you plan to submit a bid directly to the Department of Transportation

PREQUALIFICATION

Any contractor who desires to become pre-qualified to bid on work advertised by IDOT must submit the properly completed pre-qualification forms to the Bureau of Construction no later than 4:30 p.m. prevailing time twenty-one days prior to the letting of interest. This pre-qualification requirement applies to first time contractors, contractors renewing expired ratings, contractors maintaining continuous pre-qualification or contractors requesting revised ratings. To be eligible to bid, existing pre-qualification ratings must be effective through the date of letting.

REQUESTS FOR AUTHORIZATION TO BID

Contractors wanting to bid on items included in a particular letting must submit the properly completed "Request for Authorization to Bid/or Not For Bid Status" (BDE 124INT) and the ORIGINAL "Affidavit of Availability" (BC 57) to the proper office no later than 4:30 p.m. prevailing time, three (3) days prior to the letting date.

WHO CAN BID ?

Bids will be accepted from only those companies that request and receive written **Authorization to Bid** from IDOT's Central Bureau of Construction.

WHAT CONSTITUTES WRITTEN AUTHORIZATION TO BID?: When a prospective prime bidder submits a "Request for Authorization to Bid/or Not For Bid Status"(BDE 124INT) he/she must indicate at that time which items are being requested For Bidding purposes. Only those items requested For Bidding will be analyzed. After the request has been analyzed, the bidder will be issued an **Authorization to Bid or Not for Bid Report**, approved by the Central Bureau of Construction that indicates which items have been approved For Bidding. If **Authorization to Bid** cannot be approved, the **Authorization to Bid or Not for Bid Report** will indicate the reason for denial.

ABOUT AUTHORIZATION TO BID: Firms that have not received an authorization form within a reasonable time of complete and correct original document submittal should contact the department as to status. This is critical in the week before the letting. These documents must be received three days before the letting date. Firms unsure as to authorization status should call the Prequalification Section of the Bureau of Construction at the number listed at the end of these instructions.

ADDENDA AND REVISIONS: It is the contractor's responsibility to determine which, if any, addenda or revisions pertain to any project they may be bidding. Failure to incorporate all relevant addenda or revisions may cause the bid to be declared unacceptable.

Each addendum will be placed with the contract number. Addenda and revisions will also be placed on the Addendum/Revision Checklist and each subscription service subscriber will be notified by e-mail of each addendum and revision issued.

The Internet is the Department's primary way of doing business. The subscription server e-mails are an added courtesy the Department provides. It is suggested that bidders check IDOT's website at <http://www.dot.il.gov/desenv/delett.html> before submitting final bid information.

IDOT IS NOT RESPONSIBLE FOR ANY E-MAIL FAILURES.

Addenda Questions may be directed to the Contracts Office at (217)782-7806 or D&Econtracts@dot.il.gov

Technical Questions about downloading these files may be directed to Tim Garman (217)524-1642 or Timothy.Garman@illinois.gov.

WHAT MUST BE INCLUDED WHEN BIDS ARE SUBMITTED?: Bidders need not return the entire proposal when bids are submitted. That portion of the proposal that must be returned includes the following:

1. All documents from the Proposal Cover Sheet through the Proposal Bid Bond
2. Other special documentation and/or information that may be required by the contract special provisions

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

ABOUT SUBMITTING BIDS: It is recommended that bidders deliver bids in person to insure they arrive at the proper location prior to the time specified for the receipt of bids. Any bid received at the place of letting after the time specified will not be accepted.

WHO SHOULD BE CALLED IF ASSISTANCE IS NEEDED?

Questions Regarding	Call
Prequalification and/or Authorization to Bid	217/782-3413
Preparation and submittal of bids	217/782-7806
Mailing of plans and proposals	217/782-7806

ADDENDUMS AND REVISIONS TO THE PROPOSAL FORMS

Planholders should verify that they have received and incorporated any addendum and/or revision prior to submitting their bid. Failure by the bidder to include an addendum or revision could result in a bid being rejected as irregular.

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RETURN WITH BID

Proposal Submitted By
Name
Address
City

Letting January 15, 2010

BIDDERS NEED NOT RETURN THE ENTIRE PROPOSAL
(See instructions inside front cover)

NOTICE TO PROSPECTIVE BIDDERS

This proposal can be used for bidding purposes by only those companies that request and receive written AUTHORIZATION TO BID from IDOT's Central Bureau of Construction.
(SEE INSTRUCTIONS ON THE INSIDE OF COVER)

Notice To Bidders, Specifications, Proposal, Contract and Contract Bond



**Illinois Department
of Transportation**

Springfield, Illinois 62764

**Contract No. 85493
WINNEBAGO County
Section 09-00569-00-RS (Rockford)
Various Routes
Project ARA-5099(098)
District 2 Construction Funds**

PLEASE MARK THE APPROPRIATE BOX BELOW:

- A Bid Bond is included.
- A Cashier's Check or a Certified Check is included

Plans Included
Herein

Prepared by _____
Checked by _____ F

(Printed by authority of the State of Illinois)

INSTRUCTIONS

ABOUT IDOT PROPOSALS: All proposals issued by IDOT are potential bidding proposals. Each proposal contains all Certifications and Affidavits, a Proposal Signature Sheet and a Proposal Bid Bond required for Prime Contractors to submit a bid after written **Authorization to Bid** has been issued by IDOT's Central Bureau of Construction.

WHO CAN BID?: Bids will be accepted from only those companies that request and receive written **Authorization to Bid** from IDOT's Central Bureau of Construction. To request authorization, a potential bidder must complete and submit Part B of the Request for Authorization to Bid/or Not For Bid Status form (BDE 124 INT) and submit an original Affidavit of Availability (BC 57).

WHAT CONSTITUTES WRITTEN AUTHORIZATION TO BID?: When a prospective prime bidder submits a "Request for Authorization to Bid/or Not For Bid" form, he/she must indicate at that time which items are being requested For Bidding purposes. Only those items requested For Bidding will be analyzed. After the request has been analyzed, the bidder will be issued an **Authorization to Bid or Not for Bid Report**, approved by the Central Bureau of Construction that indicates which items have been approved For Bidding. If **Authorization to Bid** cannot be approved, the **Authorization to Bid or Not for Bid Report** will indicate the reason for denial. If a contractor has requested to bid but has not received a **Authorization to Bid or Not for Bid Report**, they should contact the Central Bureau of Construction in advance of the letting date.

WHAT MUST BE INCLUDED WHEN BIDS ARE SUBMITTED?: Bidders need not return the entire proposal when bids are submitted. That portion of the proposal that must be returned includes the following:

1. All documents from the Proposal Cover Sheet through the Proposal Bid Bond
2. Other special documentation and/or information that may be required by the contract special provisions

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Questions Regarding	Call
Prequalification and/or Authorization to Bid	217/782-3413
Preparation and submittal of bids	217/782-7806
Mailing of CD-ROMS	217/782-7806

RETURN WITH BID



PROPOSAL

TO THE DEPARTMENT OF TRANSPORTATION

1. Proposal of _____

Taxpayer Identification Number (Mandatory) _____

for the improvement identified and advertised for bids in the Invitation for Bids as:

**Contract No. 85493
WINNEBAGO County
Section 09-00569-00-RS (Rockford)
Project ARA-5099(098)
Various Routes
District 2 Construction Funds**

Project consists of resurfacing three roadways in the city of Rockford, locations are Alpine Road from Morsay Drive to 200 feet south of Rural Street, South Central Avenue from just north of Ogilby Road to just south of Morgan Street and on West State Street from just east of Kilburn Avenue, to just west of Church Street.

2. The undersigned bidder will furnish all labor, material and equipment to complete the above described project in a good and workmanlike manner as provided in the contract documents provided by the Department of Transportation. This proposal will become part of the contract and the terms and conditions contained in the contract documents shall govern performance and payments.

RETURN WITH BID

6. **COMBINATION BIDS.** The undersigned further agrees that if awarded the contract for the sections contained in the following combination, he/she will perform the work in accordance with the requirements of each individual proposal comprising the combination bid specified in the schedule below, and that the combination bid shall be prorated against each section in proportion to the bid submitted for the same. If an error is found to exist in the gross sum bid for one or more of the individual sections included in a combination, the combination bid shall be corrected as provided in the specifications.

When a combination bid is submitted, the schedule below must be completed in each proposal comprising the combination.

If alternate bids are submitted for one or more of the sections comprising the combination, a combination bid must be submitted for each alternate.

Schedule of Combination Bids

Combination No.	Sections Included in Combination	Combination Bid	
		Dollars	Cents

7. **SCHEDULE OF PRICES.** The undersigned bidder submits herewith, in accordance with the rules and instructions, a schedule of prices for the items of work for which bids are sought. The unit prices bid are in U.S. dollars and cents, and all extensions and summations have been made. The bidder understands that the quantities appearing in the bid schedule are approximate and are provided for the purpose of obtaining a gross sum for the comparison of bids. If there is an error in the extension of the unit prices, the unit prices shall govern. Payment to the contractor awarded the contract will be made only for 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 provided elsewhere in the contract.

8. **CERTIFICATE OF AUTHORITY.** The undersigned bidder, if a business organized under the laws of another State, assures the Department that it will furnish a copy of its certificate of authority to do business in the State of Illinois with the return of the executed contract and bond. Failure to furnish the certificate within the time provided for execution of an awarded contract may be cause for cancellation of the award and forfeiture of the proposal guaranty to the State.

STATE JOB # - C-92-025-10
 PPS NBR - 2-10345-0000

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT NUMBER - 85493

ECMS002 DTGECM03 ECMR003 PAGE 1
 RUN DATE - 12/01/09
 RUN TIME - 183247

ITEM NUMBER	COUNTY NAME	CODE	DIST	SECTION NUMBER	UNIT OF MEASURE	QUANTITY	PROJECT NUMBER		ROUTE	
							ARA-5099/098/000	VARIOUS		
	WINNEBAGO	201	02	09-00569-00-RS (ROCKFORD)			DOLLARS	CENTS	DOLLARS	CTS
XX000970		PARKWAY RESTORATION			L SUM	1.000	X			
XX007759		ADJ SAN SEW CLEANOUT			EACH	5.000	X			
X0321556		SANITARY MANHOLE ADJ			EACH	20.000	X			
Z0017202		DOWEL BARS 1 1/2			EACH	1,472.000	X			
Z0028415		GEOTECHNICAL REINF			SQ YD	1,219.000	X			
Z0028700		GRAN SUBGRADE REPL			CU YD	219.000	X			
28000500		INLET & PIPE PROTECT			EACH	52.000	X			
40600100		BIT MATLS PR CT			GALLON	7,133.000	X			
40600300		AGG PR CT			TON	144.000	X			
40600625		LEV BIND MM N50			TON	1,923.000	X			
40600825		P LEV BIND MM N50			TON	1,703.000	X			
40600990		TEMPORARY RAMP			SQ YD	792.000	X			
40603510		P HMA SC "C"			TON	928.000	X			
40603535		P HMA SC "D"			TON	1,038.000	X			
40603560		P HMA SC "E"			TON	828.000	X			

VARIOUS
09-00569-00-RS (ROCKFORD)
WINNEBAGO

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF PRICES
CONTRACT NUMBER - 85493

ECMS002 DTGECM03 ECMR003 PAGE 2
RUN DATE - 12/01/09
RUN TIME - 183247

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	CTS
				DOLLARS	CENTS		
42400300	PC CONC SIDEWALK 6	SQ FT	3,496.000	=			
42400800	DETECTABLE WARNINGS	SQ FT	396.000	=			
44000157	HMA SURF REM 2	SQ YD	22,127.000	=			
44000159	HMA SURF REM 2 1/2	SQ YD	5,228.000	=			
44000198	HMA SURF REM VAR DP	SQ YD	14,441.000	=			
44000500	COMB CURB GUTTER REM	FOOT	862.000	=			
44000600	SIDEWALK REM	SQ FT	3,448.000	=			
44200934	CL B PATCH T2 8	SQ YD	555.000	=			
44200944	CL B PATCH T4 8	SQ YD	80.000	=			
44201721	CL D PATCH T3 6	SQ YD	43.000	=			
44201723	CL D PATCH T4 6	SQ YD	1,590.000	=			
44201974	CL D PATCH T1	SQ YD	370.000	=			
44201978	CL D PATCH T3	SQ YD	37.000	=			
44201980	CL D PATCH T4	SQ YD	2,751.000	=			
44300200	STRIP REF CR CON TR	FOOT	5,925.000	=			

VARIOUS
09-00569-00-RS (ROCKFORD)
WINNEBAGO

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF PRICES
CONTRACT NUMBER - 85493

ECMS002 DTGECM03 ECMR003 PAGE 3
RUN DATE - 12/01/09
RUN TIME - 183247

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	CTS
				DOLLARS	CENTS		
60255500	MAN ADJUST	EACH	13.000	X	=		
60255800	MAN ADJ NEW T1F CL	EACH	5.000	X	=		
60265700	VV ADJUST	EACH	15.000	X	=		
60265900	VV ADJ NEW T1F CL	EACH	5.000	X	=		
60266600	VALVE BOX ADJ	EACH	3.000	X	=		
60609800	COMB CC&G TM6.18	FOOT	386.000	X	=		
60610100	COMB CC&G TM6.18 MOD	FOOT	337.000	X	=		
60610907	COMB CC&G TM6.30	FOOT	139.000	X	=		
67100100	MOBILIZATION	L SUM	1.000	X	=		
70101700	TRAF CONT & PROT	L SUM	1.000	X	=		
70106800	CHANGEABLE MESSAGE SN	CAL MD	3.000	X	=		
70300100	SHORT-TERM PAYT MKING	FOOT	2,200.000	X	=		
70300210	TEMP PVT MK LTR & SYM	SQ FT	68.000	X	=		
70300220	TEMP PVT MK LINE 4	FOOT	9,869.000	X	=		
70300240	TEMP PVT MK LINE 6	FOOT	1,246.000	X	=		

VARIOUS
09-00569-00-RS (ROCKFORD)
WINNEBAGO

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF PRICES
CONTRACT NUMBER - 85493

ECMS002 DTGECM03 ECMR003 PAGE 4
RUN DATE - 12/01/09
RUN TIME - 183247

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE DOLLARS	CENTS	TOTAL PRICE DOLLARS	CTS
70300250	TEMP PVT MK LINE 8	FOOT	352.000				
70300260	TEMP PVT MK LINE 12	FOOT	397.000				
70300280	TEMP PVT MK LINE 24	FOOT	175.000				
70301000	WORK ZONE PAVT MK REM	SQ FT	5,700.000				
78000100	THPL PVT MK LTR & SYM	SQ FT	68.000				
78000200	THPL PVT MK LINE 4	FOOT	9,869.000				
78000400	THPL PVT MK LINE 6	FOOT	1,246.000				
78000500	THPL PVT MK LINE 8	FOOT	352.000				
78000600	THPL PVT MK LINE 12	FOOT	397.000				
78000650	THPL PVT MK LINE 24	FOOT	175.000				
88600100	DET LOOP T1	FOOT	100.000				

TOTAL \$

NOTE:
*** PLEASE TURN PAGE FOR IMPORTANT NOTES ***

VARIOUS
09-00569-00-RS (ROCKFORD)
WINNEBAGO

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF PRICES
CONTRACT NUMBER - 85493

ECMS002 DTGECM03 ECMR003 PAGE 5
RUN DATE - 12/01/09
RUN TIME - 183247

NOTE:

1. EACH PAY ITEM SHOULD HAVE A UNIT PRICE AND A TOTAL PRICE.
2. THE UNIT PRICE SHALL GOVERN IF NO TOTAL PRICE IS SHOWN OR IF THERE IS A DISCREPANCY BETWEEN THE PRODUCT OF THE UNIT PRICE MULTIPLIED BY THE QUANTITY.
3. IF A UNIT PRICE IS OMITTED, THE TOTAL PRICE WILL BE DIVIDED BY THE QUANTITY IN ORDER TO ESTABLISH A UNIT PRICE.
4. A BID MAY BE DECLARED UNACCEPTABLE IF NEITHER A UNIT PRICE NOR A TOTAL PRICE IS SHOWN.

RETURN WITH BID

STATE REQUIRED ETHICAL STANDARDS GOVERNING CONTRACT PROCUREMENT: ASSURANCES, CERTIFICATIONS AND DISCLOSURES

I. GENERAL

A. Article 50 of the Illinois Procurement Code establishes the duty of all State chief procurement officers, State purchasing officers, and their designees to maximize the value of the expenditure of public moneys in procuring goods, services, and contracts for the State of Illinois and to act in a manner that maintains the integrity and public trust of State government. In discharging this duty, they are charged by law to use all available information, reasonable efforts, and reasonable actions to protect, safeguard, and maintain the procurement process of the State of Illinois.

B. In order to comply with the provisions of Article 50 and to carry out the duty established therein, all bidders are to adhere to ethical standards established for the procurement process, and to make such assurances, disclosures and certifications required by law. By execution of the Proposal Signature Sheet, the bidder indicates that each of the mandated assurances has been read and understood, that each certification is made and understood, and that each disclosure requirement has been understood and completed.

C. In addition to all other remedies provided by law, failure to comply with any assurance, failure to make any disclosure or the making of a false certification shall be grounds for termination of the contract and the suspension or debarment of the bidder.

II. ASSURANCES

A. The assurances 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. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous assurance, and the surety providing the performance bond shall be responsible for the completion of the contract.

B. Felons

1. The Illinois Procurement Code provides:

Section 50-10. Felons. Unless otherwise provided, no person or business convicted of a felony shall do business with the State of Illinois or any state agency from the date of conviction until 5 years after the date of completion of the sentence for that felony, unless no person held responsible by a prosecutorial office for the facts upon which the conviction was based continues to have any involvement with the business.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-10.

C. Conflicts of Interest

1. The Illinois Procurement Code provides in pertinent part:

Section 50-13. Conflicts of Interest.

(a) Prohibition. It is unlawful for any person holding an elective office in this State, holding a seat in the General Assembly, or appointed to or employed in any of the offices or agencies of state government and who receives compensation for such employment in excess of 60% of the salary of the Governor of the State of Illinois, or who is an officer or employee of the Capital Development Board or the Illinois Toll Highway Authority, or who is the spouse or minor child of any such person to have or acquire any contract, or any direct pecuniary interest in any contract therein, whether for stationery, printing, paper, or any services, materials, or supplies, that will be wholly or partially satisfied by the payment of funds appropriated by the General Assembly of the State of Illinois or in any contract of the Capital Development Board or the Illinois Toll Highway authority.

(b) Interests. It is unlawful for any firm, partnership, association or corporation, in which any person listed in subsection (a) is entitled to receive (i) more than 7 1/2% of the total distributable income or (ii) an amount in excess of the salary of the Governor, to have or acquire any such contract or direct pecuniary interest therein.

(c) Combined interests. It is unlawful for any firm, partnership, association, or corporation, in which any person listed in subsection (a) together with his or her spouse or minor children is entitled to receive (i) more than 15%, in the aggregate, of the total distributable income or (ii) an amount in excess of 2 times the salary of the Governor, to have or acquire any such contract or direct pecuniary interest therein.

(d) Securities. Nothing in this Section invalidates the provisions of any bond or other security previously offered or to be offered for sale or sold by or for the State of Illinois.

(e) Prior interests. This Section does not affect the validity of any contract made between the State and an officer or employee of the State or member of the General Assembly, his or her spouse, minor child or any combination of those persons if that contract was in existence before his or her election or employment as an officer, member, or employee. The contract is voidable, however, if it cannot be completed within 365 days after the officer, member, or employee takes office or is employed.

The current salary of the Governor is \$177,412.00. Sixty percent of the salary is \$106,447.20.

RETURN WITH BID

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-13, or that an effective exemption has been issued by the Board of Ethics to any individual subject to the Section 50-13 prohibitions pursuant to the provisions of Section 50-20 of the Code and Executive Order Number 3 (1998). Information concerning the exemption process is available from the Department upon request.

D. Negotiations

1. The Illinois Procurement Code provides in pertinent part:

Section 50-15. Negotiations.

(a) It is unlawful for any person employed in or on a continual contractual relationship with any of the offices or agencies of State government to participate in contract negotiations on behalf of that office or agency with any firm, partnership, association, or corporation with whom that person has a contract for future employment or is negotiating concerning possible future employment.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-15, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

E. Inducements

1. The Illinois Procurement Code provides:

Section 50-25. Inducement. Any person who offers or pays any money or other valuable thing to any person to induce him or her not to bid for a State contract or as recompense for not having bid on a State contract is guilty of a Class 4 felony. Any person who accepts any money or other valuable thing for not bidding for a State contract or who withholds a bid in consideration of the promise for the payment of money or other valuable thing is guilty of a Class 4 felony.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-25, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

F. Revolving Door Prohibition

1. The Illinois Procurement Code provides:

Section 50-30. Revolving door prohibition. Chief procurement officers, associate procurement officers, State purchasing officers, their designees whose principal duties are directly related to State procurement, and executive officers confirmed by the Senate are expressly prohibited for a period of 2 years after terminating an affected position from engaging in any procurement activity relating to the State agency most recently employing them in an affected position for a period of at least 6 months. The prohibition includes, but is not limited to: lobbying the procurement process; specifying; bidding; proposing bid, proposal, or contract documents; on their own behalf or on behalf of any firm, partnership, association, or corporation. This Section applies only to persons who terminate an affected position on or after January 15, 1999.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-30, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

G. Reporting Anticompetitive Practices

1. The Illinois Procurement Code provides:

Section 50-40. Reporting anticompetitive practices. When, for any reason, any vendor, bidder, contractor, chief procurement officer, State purchasing officer, designee, elected official, or State employee suspects collusion or other anticompetitive practice among any bidders, offerors, contractors, proposers, or employees of the State, a notice of the relevant facts shall be transmitted to the Attorney General and the chief procurement officer.

2. The bidder assures the Department that it has not failed to report any relevant facts concerning the practices addressed in Section 50-40 which may involve the contract for which the bid is submitted.

H. Confidentiality

1. The Illinois Procurement Code provides:

Section 50-45. Confidentiality. Any chief procurement officer, State purchasing officer, designee, or executive officer who willfully uses or allows the use of specifications, competitive bid documents, proprietary competitive information, proposals, contracts, or selection information to compromise the fairness or integrity of the procurement, bidding, or contract process shall be subject to immediate dismissal, regardless of the Personnel code, any contract, or any collective bargaining agreement, and may in addition be subject to criminal prosecution.

2. The bidder assures the Department that it has no knowledge of any fact relevant to the practices addressed in Section 50-45 which may involve the contract for which the bid is submitted.

RETURN WITH BID

I. Insider Information

1. The Illinois Procurement Act provides:

Section 50-50. Insider information. It is unlawful for any current or former elected or appointed State official or State employee to knowingly use confidential information available only by virtue of that office or employment for actual or anticipated gain for themselves or another person.

2. The bidder assures the Department that it has no knowledge of any facts relevant to the practices addressed in Section 50-50 which may involve the contract for which the bid is submitted.

III. CERTIFICATIONS

A. 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. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous certification, and the surety providing the performance bond shall be responsible for completion of the contract.

B. Bribery

1. The Illinois Procurement Code provides:

Section 50-5. Bribery.

- (a) Prohibition. No person or business shall be awarded a contract or subcontract under this Code who:

- (1) has been convicted under the laws of Illinois or any other state of bribery or attempting to bribe an officer or employee of the State of Illinois or any other state in that officer's or employee's official capacity; or

- (2) has made an admission of guilt of that conduct that is a matter of record but has not been prosecuted for that conduct.

- (b) Businesses. No business 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 the business if the employee or agent is no longer employed by the business and:

- (1) the business has been finally adjudicated not guilty; or

- (2) the business demonstrates to the governmental entity with which it seeks to contract, and that entity finds that the commission of the offense was not authorized, requested, commanded, or performed by a director, officer, or high managerial agent on behalf of the business as provided in paragraph (2) of subsection (a) of Section 5-4 of the Criminal Code of 1961.

- (c) Conduct on behalf of business. For purposes of this Section, when an official, agent, or employee of a business committed the bribery or attempted bribery on behalf of the business and in accordance with the direction or authorization of a responsible official of the business, the business shall be chargeable with the conduct.

- (d) Certification. Every bid submitted to and contract executed by the State shall contain a certification by the contractor that the contractor is not barred from being awarded a contract or subcontract under this Section. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

2. The bidder certifies that it is not barred from being awarded a contract under Section 50.5.

C. Educational Loan

1. Section 3 of the Educational Loan Default Act provides:

§ 3. No State agency shall contract with an individual for goods or services if that individual is in default, as defined in Section 2 of this Act, on an educational loan. Any contract used by any State agency shall include a statement certifying that the individual is not in default on an educational loan as provided in this Section.

2. The bidder, if an individual as opposed to a corporation, partnership or other form of business organization, certifies that the bidder is not in default on an educational loan as provided in Section 3 of the Act.

D. Bid-Rigging/Bid Rotating

1. Section 33E-11 of the Criminal Code of 1961 provides:

§ 33E-11. (a) Every bid submitted to and public contract executed pursuant to such bid by the State or a unit of local government shall contain a certification by the prime contractor that the prime contractor is not barred from contracting with any unit of State or local government as a result of a violation of either Section 33E-3 or 33E-4 of this Article. The State and units of local government shall provide the appropriate forms for such certification.

RETURN WITH BID

(b) A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

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.

2. The bidder certifies that it is not barred from contracting with the Department by reason of a violation of either Section 33E-3 or Section 33E-4.

E. International Anti-Boycott

1. Section 5 of the International Anti-Boycott Certification Act provides:

§ 5. State contracts. Every contract entered into by the State of Illinois for the manufacture, furnishing, or purchasing of supplies, material, or equipment or for the furnishing of work, labor, or services, in an amount exceeding the threshold for small purchases according to the purchasing laws of this State or \$10,000.00, whichever is less, shall contain certification, as a material condition of the contract, by which the contractor agrees that neither the contractor nor any substantially-owned affiliated company is participating or shall participate in an international boycott in violation of the provisions of the U.S. Export Administration Act of 1979 or the regulations of the U.S. Department of Commerce promulgated under that Act.

2. The bidder makes the certification set forth in Section 5 of the Act.

F. Drug Free Workplace

1. The Illinois "Drug Free Workplace Act" applies to this contract and it is necessary to comply with the provisions of the "Act" if the contractor is a corporation, partnership, or other entity (including a sole proprietorship) which has 25 or more employees.

2. The bidder certifies that if awarded a contract in excess of \$5,000 it will provide a drug free workplace by:

(a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance, including cannabis, is prohibited in the contractor's workplace; specifying the actions that will be taken against employees for violations of such prohibition; and notifying the employee that, as a condition of employment on such contract, the employee shall abide by the terms of the statement, and notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.

(b) Establishing a drug free awareness program to inform employees about the dangers of drug abuse in the workplace; the contractor's policy of maintaining a drug free workplace; any available drug counseling, rehabilitation, and employee assistance programs; and the penalties that may be imposed upon employees for drug violations.

(c) Providing a copy of the statement required by subparagraph (1) to each employee engaged in the performance of the contract and to post the statement in a prominent place in the workplace.

(d) Notifying the Department within ten (10) days after receiving notice from an employee or otherwise receiving actual notice of the conviction of an employee for a violation of any criminal drug statute occurring in the workplace.

(e) Imposing or requiring, within 30 days after receiving notice from an employee of a conviction or actual notice of such a conviction, an appropriate personnel action, up to and including termination, or the satisfactory participation in a drug abuse assistance or rehabilitation program approved by a federal, state or local health, law enforcement or other appropriate agency.

(f) Assisting employees in selecting a course of action in the event drug counseling, treatment, and rehabilitation is required and indicating that a trained referral team is in place.

(g) Making a good faith effort to continue to maintain a drug free workplace through implementation of the actions and efforts stated in this certification.

RETURN WITH BID

G. Debt Delinquency

1. The Illinois Procurement Code provides:

Section 50-11 and 50-12. Debt Delinquency.

The contractor or bidder certifies that it, or any affiliate, is not barred from being awarded a contract under 30 ILCS 500. Section 50-11 prohibits a person from entering into a contract with a State agency if it knows or should know that it, or any affiliate, is delinquent in the payment of any debt to the State as defined by the Debt Collection Board. Section 50-12 prohibits a person from entering into a contract with a State agency if it, or any affiliate, has failed to collect and remit Illinois Use Tax on all sales of tangible personal property into the State of Illinois in accordance with the provisions of the Illinois Use Tax Act. The contractor further acknowledges that the contracting State agency may declare the contract void if this certification is false or if the contractor, or any affiliate, is determined to be delinquent in the payment of any debt to the State during the term of the contract.

H. Sarbanes-Oxley Act of 2002

1. The Illinois Procurement Code, Section 50-60(c), provides:

The contractor certifies in accordance with 30 ILCS 500/50-10.5 that no officer, director, partner or other managerial agent of the contracting business has been convicted of a felony under the Sarbanes-Oxley Act of 2002 or a Class 3 or Class 2 felony under the Illinois Securities Law of 1953 for a period of five years prior to the date of the bid or contract. The contractor acknowledges that the contracting agency shall declare the contract void if this certification is false.

I. Addenda

The contractor or bidder certifies that all relevant addenda have been incorporated in to this contract. Failure to do so may cause the bid to be declared unacceptable.

J. Section 42 of the Environmental Protection Act

The contractor certifies in accordance with 30 ILCS 500/50-12 that the bidder or contractor is not barred from being awarded a contract under this Section which prohibits the bidding on or entering into contracts with the State of Illinois or a State agency by a person or business found by a court or the Pollution Control Board to have committed a willful or knowing violation of Section 42 of the Environmental Protection Act for a period of five years from the date of the order. The contractor acknowledges that the contracting agency may declare the contract void if this certification is false.

K. Apprenticeship and Training Certification (Does not apply to federal aid projects)

In accordance with the provisions of Section 30-22 (6) of the Illinois Procurement Code, the bidder certifies that it is a participant, either as an individual or as part of a group program, in the approved apprenticeship and training programs applicable to each type of work or craft that the bidder will perform with its own forces. The bidder further certifies for work that will 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 and training program; or (b) will, prior to commencement of performance of work pursuant to this contract, begin participation in an approved apprenticeship and training program applicable to the work of the subcontract. 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. Applicable apprenticeship and training programs are those that have been approved and registered with the United States Department of Labor. The bidder shall list in the space below, the official name of the 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 forces. Types of work or craft work 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 that does not have an applicable apprenticeship or training program. **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 as reported on the Construction Employee Workforce Projection (Form BC-1256) and returned with the bid is accounted for and listed.**

NA - FEDERAL

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. In order to fulfill this requirement, it shall not be necessary that an 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.

L. Executive Order Number 1 (2007) Regarding Lobbying on Government Procurements

The bidder hereby warrants and certifies that they have complied and will comply with the requirements set forth in this Order. The requirements of this warrant and certification are a material part of the contract, and the contractor shall require this warrant and certification provision to be included in all approved subcontracts.

RETURN WITH BID

M. Disclosure of Business Operations in Iran

Section 50-36 of the Illinois Procurement Code, 30ILCS 500/50-36 provides that each bid, offer, or proposal submitted for a State contract shall include a disclosure of whether or not the Company acting as the bidder, offer or, or proposing entity, or any of its corporate parents or subsidiaries, within the 24 months before submission of the bid, offer, or proposal had business operations that involved contracts with or provision of supplies or services to the Government of Iran, companies in which the Government of Iran has any direct or indirect equity share, consortiums or projects commissioned by the Government of Iran, or companies involved in consortiums or projects commissioned by the Government of Iran and either of the following conditions apply:

- (1) More than 10% of the Company's revenues produced in or assets located in Iran involve oil-related activities or mineral-extraction activities; less than 75% of the Company's revenues produced in or assets located in Iran involve contracts with or provision of oil-related or mineral-extraction products or services to the Government of Iran or a project or consortium created exclusively by that government; and the Company has failed to take substantial action.
- (2) The Company has, on or after August 5, 1996, made an investment of \$20 million or more, or any combination of investments of at least \$10 million each that in the aggregate equals or exceeds \$20 million in any 12-month period, which directly or significantly contributes to the enhancement of Iran's ability to develop petroleum resources of Iran.

The terms "Business operations", "Company", "Mineral-extraction activities", "Oil-related activities", "Petroleum resources", and "Substantial action" are all defined in the Code.

Failure to make the disclosure required by the Code shall cause the bid, offer or proposal to be considered not responsive. The disclosure will be considered when evaluating the bid, offer, or proposal or awarding the contract. The name of each Company disclosed as doing business or having done business in Iran will be provided to the State Comptroller.

Check the appropriate statement:

Company has no business operations in Iran to disclose.

Company has business operations in Iran as disclosed the attached document.

N. Political Contributions and Registration with the State Board of Elections

Sections 20-160 and 50-37 of the Illinois Procurement Code regulate political contributions from business entities and any affiliated entities or affiliated persons bidding on or contracting with the state. Generally under Section 50-37, any business entity, and any affiliated entity or affiliated person of the business entity, whose current year contracts with all state agencies exceed an awarded value of \$50,000, are prohibited from making any contributions to any political committees established to promote the candidacy of the officeholder responsible for the awarding of the contracts or any other declared candidate for that office for the duration of the term of office of the incumbent officeholder or a period 2 years after the termination of the contract, whichever is longer. Any business entity and affiliated entities or affiliated persons whose state contracts in the current year do not exceed an awarded value of \$50,000, but whose aggregate pending bids and proposals on state contracts exceed \$50,000, either alone or in combination with contracts not exceeding \$50,000, are prohibited from making any political contributions to any political committee established to promote the candidacy of the officeholder responsible for awarding the pending contract during the period beginning on the date the invitation for bids or request for proposals is issued and ending on the day after the date of award or selection if the entity was not awarded or selected. Section 20-160 requires certification of registration of affected business entities in accordance with procedures found in Section 9-35 of The Election Code.

By submission of a bid, the contractor business entity acknowledges and agrees that it has read and understands Sections 20-160 and 50-37 of the Illinois Procurement Code, and that it makes the following certification:

The undersigned business entity certifies that it has registered as a business with the State Board of Elections and acknowledges a continuing duty to update the registration in accordance with the above referenced statutes. A copy of the certificate of registration shall be submitted with the bid. The bidder is cautioned that the Department will not award a contract without submission of the certificate of registration.

These requirements and compliance with the above referenced statutory sections are a material part of the contract, and any breach thereof shall be cause to void the contract under Section 50-60 of the Illinois Procurement Code. This provision does not apply to Federal-aid contracts.

TO BE RETURNED WITH BID

IV. DISCLOSURES

A. The disclosures 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. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous disclosure, and the surety providing the performance bond shall be responsible for completion of the contract.

B. Financial Interests and Conflicts of Interest

1. Section 50-35 of the Illinois Procurement Code provides that all bids of more than \$10,000 shall be accompanied by disclosure of the financial interests of the bidder. This disclosed information for the successful bidder, will be maintained as public information subject to release by request pursuant to the Freedom of Information Act.

The financial interests to be disclosed shall include ownership or distributive income share that is in excess of 5%, or an amount greater than 60% of the annual salary of the Governor, of the bidding entity or its parent entity, whichever is less, unless the contractor or bidder is a publicly traded entity subject to Federal 10K reporting, in which case it may submit its 10K disclosure in place of the prescribed disclosure. If a bidder is a privately held entity that is exempt from Federal 10K reporting, but has more than 400 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any person or entity holding any ownership share that is in excess of 5%. The disclosure shall include the names, addresses, and dollar or proportionate share of ownership of each person making the disclosure, their instrument of ownership or beneficial relationship, and notice of any potential conflict of interest resulting from the current ownership or beneficial interest of each person making the disclosure having any of the relationships identified in Section 50-35 and on the disclosure form.

In addition, all disclosures shall indicate any other current or pending contracts, proposals, leases, or other ongoing procurement relationships the bidding entity has with any other unit of state government and shall clearly identify the unit and the contract, proposal, lease, or other relationship.

2. Disclosure Forms. Disclosure Form A is attached for use concerning the individuals meeting the above ownership or distributive share requirements. Subject individuals should be covered each by one form. In addition, a second form (Disclosure Form B) provides for the disclosure of current or pending procurement relationships with other (non-IDOT) state agencies. **The forms must be included with each bid or incorporated by reference.**

C. Disclosure Form Instructions

Form A: For bidders that have previously submitted the information requested in Form A

The Department has retained the Form A disclosures submitted by all bidders responding to these requirements for the April 24, 1998 or any subsequent letting conducted by the Department. The bidder has the option of submitting the information again or the bidder may check the following certification statement indicating that the information previously submitted by the bidder is, as of the date of submission, current and accurate. Before checking this certification, the bidder should carefully review its prior submissions to ensure the Certification is correct. If the Bidder checks the Certification, the Bidder should proceed to Form B instructions.

CERTIFICATION STATEMENT

I have determined that the Form A disclosure information previously submitted is current and accurate, and all forms are hereby incorporated by reference in this bid. Any necessary additional forms or amendments to previously submitted forms are attached to this bid.

(Bidding Company)



Signature of Authorized Representative

Date

Form A: For bidders who have NOT previously submitted the information requested in Form A

If the bidder is a publicly traded entity subject to Federal 10K reporting, the 10K Report may be submitted to meet the requirements of Form A. If a bidder is a privately held entity that is exempt from Federal 10K reporting, but has more than 400 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any person or entity holding any ownership share that is in excess of 5%. If a bidder is not subject to Federal 10K reporting, the bidder must determine if any individuals are required by law to complete a financial disclosure form. To do this, the bidder should answer each of the following questions. A "YES" answer indicates Form A must be completed. If the answer to each of the following questions is "NO", then the NOT APPLICABLE STATEMENT on the second page of Form A must be signed and dated by a person that is authorized to execute contracts for the bidding company. Note: These questions are for assistance only and are not required to be completed.

1. Does anyone in your organization have a direct or beneficial ownership share of greater than 5% of the bidding entity or parent entity? YES ___ NO ___
2. Does anyone in your organization have a direct or beneficial ownership share of less than 5%, but which has a value greater than \$102,600.00? YES ___ NO ___
3. Does anyone in your organization receive more than \$106,447.20 of the bidding entity's or parent entity's distributive income? (Note: Distributive income is, for these purposes, any type of distribution of profits. An annual salary is not distributive income.) YES ___ NO ___
4. Does anyone in your organization receive greater than 5% of the bidding entity's or parent entity's total distributive income, but which is less than \$106,447.20? YES ___ NO ___
(Note: Only one set of forms needs to be completed per person per bid even if a specific individual would require a yes answer to more than one question.)

A "YES" answer to any of these questions requires the completion of Form A. The bidder must determine each individual in the bidding entity or the bidding entity's parent company that would cause the questions to be answered "Yes". Each form must be signed and dated by a person that is authorized to execute contracts for your organization. **Photocopied or stamped signatures are not acceptable.** The person signing can be, but does not have to be, the person for which the form is being completed. The bidder is responsible for the accuracy of any information provided.

If the answer to each of the above questions is "NO", then the NOT APPLICABLE STATEMENT on page 2 of Form A must be signed and dated by a person that is authorized to execute contracts for your company.

Form B: Identifying Other Contracts & Procurement Related Information Disclosure Form B must be completed for each bid submitted by the bidding entity. Note: *Checking the NOT APPLICABLE STATEMENT on Form A does not allow the bidder to ignore Form B. Form B must be completed, checked, and dated or the bidder may be considered nonresponsive and the bid will not be accepted.*

The Bidder shall identify, by checking Yes or No on Form B, whether it has any pending contracts (including leases), bids, proposals, or other ongoing procurement relationship with any other (non-IDOT) State of Illinois agency. If "No" is checked, the bidder only needs to complete the check box on the bottom of Form B. If "Yes" is checked, the bidder must do one of the following:

Option I: If the bidder did not submit an Affidavit of Availability to obtain authorization to bid, the bidder must list all non-IDOT State of Illinois agency pending contracts, leases, bids, proposals, and other ongoing procurement relationships. These items may be listed on Form B or on an attached sheet(s). Do not include IDOT contracts. Contracts with cities, counties, villages, etc. are not considered State of Illinois agency contracts and are not to be included. Contracts with other State of Illinois agencies such as the Department of Natural Resources or the Capital Development Board must be included. Bidders who submit Affidavits of Availability are suggested to use Option II.

Option II: If the bidder is required and has submitted an Affidavit of Availability in order to obtain authorization to bid, the bidder may write or type "See Affidavit of Availability" which indicates that the Affidavit of Availability is incorporated by reference and includes all non-IDOT State of Illinois agency pending contracts, leases, bids, proposals, and other ongoing procurement relationships. For any contracts that are not covered by the Affidavit of Availability, the bidder must identify them on Form B or on an attached sheet(s). These might be such things as leases.

D. Bidders Submitting More Than One Bid

Bidders submitting multiple bids may submit one set of forms consisting of all required Form A disclosures and one Form B for use with all bids. Please indicate in the space provided below the bid item that contains the original disclosure forms and the bid items which incorporate the forms by reference.

- The bid submitted for letting item _____ contains the Form A disclosures or Certification Statement and the Form B disclosures. The following letting items incorporate the said forms by reference:

RETURN WITH BID/OFFER

**ILLINOIS DEPARTMENT
OF TRANSPORTATION**

**Form A
Financial Information &
Potential Conflicts of Interest
Disclosure**

Contractor Name		
Legal Address		
City, State, Zip		
Telephone Number	Email Address	Fax Number (if available)

Disclosure of the information contained in this Form is required by the Section 50-35 of the Illinois Procurement Code (30 ILCS 500). Vendors desiring to enter into a contract with the State of Illinois must disclose the financial information and potential conflict of interest information as specified in this Disclosure Form. This information shall become part of the publicly available contract file. This Form A must be completed for bids in excess of \$10,000, and for all open-ended contracts. **A publicly traded company may submit a 10K disclosure (or equivalent if applicable) in satisfaction of the requirements set forth in Form A. See Disclosure Form Instructions.**

DISCLOSURE OF FINANCIAL INFORMATION

1. Disclosure of Financial Information. The individual named below has an interest in the BIDDER (or its parent) in terms of ownership or distributive income share in excess of 5%, or an interest which has a value of more than \$106,447.20 (60% of the Governor's salary as of 3/1/09). **(Make copies of this form as necessary and attach a separate Disclosure Form A for each individual meeting these requirements)**

FOR INDIVIDUAL (type or print information)

NAME: _____

ADDRESS _____

Type of ownership/distributable income share:

stock _____ sole proprietorship _____ Partnership _____ other: (explain on separate sheet):
% or \$ value of ownership/distributable income share: _____

2. Disclosure of Potential Conflicts of Interest. Check "Yes" or "No" to indicate which, if any, of the following potential conflict of interest relationships apply. If the answer to any question is "Yes", please attach additional pages and describe.

(a) State employment, currently or in the previous 3 years, including contractual employment of services.
Yes ___ No ___

If your answer is yes, please answer each of the following questions.

- Are you currently an officer or employee of either the Capitol Development Board or the Illinois Toll Highway Authority? Yes ___ No ___
- Are you currently appointed to or employed by any agency of the State of Illinois? If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds \$106,447.20, (60% of the Governor's salary as of 3/1/09) provide the name the State agency for which you are employed and your annual salary. _____

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- 3. If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds \$106,447.20, (60% of the Governor's salary as of 3/1/09) are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of the salary of the Governor? Yes ___ No ___

- 4. If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds \$106,447.20, (60% of the Governor's salary as of 3/1/09) are you and your spouse or minor children entitled to receive (i) more than 15% in aggregate of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of 2 times the salary of the Governor? Yes ___ No ___

(b) State employment of spouse, father, mother, son, or daughter, including contractual employment for services in the previous 2 years.

Yes ___ No ___

If your answer is yes, please answer each of the following questions.

- 1. Is your spouse or any minor children currently an officer or employee of the Capitol Development Board or the Illinois Toll Highway Authority? Yes ___ No ___

- 2. Is your spouse or any minor children currently appointed to or employed by any agency of the State of Illinois? If your spouse or minor children is/are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds \$106,447.20, (60% of the Governor's salary as of 3/1/09) provide the name of the spouse and/or minor children, the name of the State agency for which he/she is employed and his/her annual salary. _____

- 3. If your spouse or any minor children is/are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds \$106,447.20.00, (60% of the salary of the Governor as of 3/1/09) are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of the salary of the Governor? Yes ___ No ___

- 4. If your spouse or any minor children are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds \$106,447.20, (60% of the Governor's salary as of 3/1/09) are you and your spouse or any minor children entitled to receive (i) more than 15% in the aggregate of the total distributable income from your firm, partnership, association or corporation, or (ii) an amount in excess of 2 times the salary of the Governor? Yes ___ No ___

(c) Elective status; the holding of elective office of the State of Illinois, the government of the United States, any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois currently or in the previous 3 years.

Yes ___ No ___

(d) Relationship to anyone holding elective office currently or in the previous 2 years; spouse, father, mother, son, or daughter.

Yes ___ No ___

(e) Appointive office; the holding of any appointive government office of the State of Illinois, the United State of America, or any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois, which office entitles the holder to compensation in excess of the expenses incurred in the discharge of that office currently or in the previous 3 years.

Yes ___ No ___

(f) Relationship to anyone holding appointive office currently or in the previous 2 years; spouse, father, mother, son, or daughter.

Yes ___ No ___

(g) Employment, currently or in the previous 3 years, as or by any registered lobbyist of the State government.

Yes ___ No ___

RETURN WITH BID/OFFER

(h) Relationship to anyone who is or was a registered lobbyist in the previous 2 years; spouse, father, mother, son, or daughter. Yes ___ No ___

(i) Compensated employment, currently or in the previous 3 years, by any registered election or reelection committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections. Yes ___ No ___

(j) Relationship to anyone; spouse, father, mother, son, or daughter; who was a compensated employee in the last 2 years by any registered election or re-election committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections. Yes ___ No ___

APPLICABLE STATEMENT

This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on previous page.

Completed by: _____ Date _____
Signature of Individual or Authorized Representative

NOT APPLICABLE STATEMENT

I have determined that no individuals associated with this organization meet the criteria that would require the completion of this Form A.

This Disclosure Form A is submitted on behalf of the CONTRACTOR listed on the previous page.

_____ Date _____
Signature of Authorized Representative

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**ILLINOIS DEPARTMENT
OF TRANSPORTATION**

**Form B
Other Contracts &
Procurement Related Information
Disclosure**

Contractor Name		
Legal Address		
City, State, Zip		
Telephone Number	Email Address	Fax Number (if available)

Disclosure of the information contained in this Form is required by the Section 50-35 of the Illinois Procurement Act (30 ILCS 500). This information shall become part of the publicly available contract file. This Form B must be completed for bids in excess of \$10,000, and for all open-ended contracts.

DISCLOSURE OF OTHER CONTRACTS AND PROCUREMENT RELATED INFORMATION

1. Identifying Other Contracts & Procurement Related Information. The BIDDER shall identify whether it has any pending contracts (including leases), bids, proposals, or other ongoing procurement relationship with any other State of Illinois agency: Yes ___ No ___

If "No" is checked, the bidder only needs to complete the signature box on the bottom of this page.

2. If "Yes" is checked. Identify each such relationship by showing State of Illinois agency name and other descriptive information such as bid or project number (attach additional pages as necessary). SEE DISCLOSURE FORM INSTRUCTIONS:

THE FOLLOWING STATEMENT MUST BE CHECKED

<input type="checkbox"/>	_____	_____
	Signature of Authorized Representative	Date

RETURN WITH BID

SPECIAL NOTICE TO CONTRACTORS

The following requirements of the Illinois Department of Human Rights' Rules and Regulations are applicable to bidders on all construction contracts advertised by the Illinois Department of Transportation:

CONSTRUCTION EMPLOYEE UTILIZATION PROJECTION

- (a) All bidders on construction contracts shall complete and submit, along with and as part of their bids, a Bidder's Employee Utilization Form (Form BC-1256) setting forth a projection and breakdown of the total workforce intended to be hired and/or allocated to such contract work by the bidder including a projection of minority and female employee utilization in all job classifications on the contract project.
- (b) The Department of Transportation shall review the Employee Utilization Form, and workforce projections contained therein, of the contract awardee to determine if such projections reflect an underutilization of minority persons and/or women in any job classification in accordance with the Equal Employment Opportunity Clause and Section 7.2 of the Illinois Department of Human Rights' Rules and Regulations for Public Contracts adopted as amended on September 17, 1980. If it is determined that the contract awardee's projections reflect an underutilization of minority persons and/or women in any job classification, it shall be advised in writing of the manner in which it is underutilizing and such awardee shall be considered to be in breach of the contract unless, prior to commencement of work on the contract project, it submits revised satisfactory projections or an acceptable written affirmative action plan to correct such underutilization including a specific timetable geared to the completion stages of the contract.
- (c) The Department of Transportation shall provide to the Department of Human Rights a copy of the contract awardee's Employee Utilization Form, a copy of any required written affirmative action plan, and any written correspondence related thereto. The Department of Human Rights may review and revise any action taken by the Department of Transportation with respect to these requirements.

RETURN WITH BID

**Contract No. 85493
WINNEBAGO County
Section 09-00569-00-RS (Rockford)
Project ARA-5099(098)
Various Routes
District 2 Construction Funds**

PART II. WORKFORCE PROJECTION - continued

- B. Included in "Total Employees" under Table A is the total number of **new hires** that would be employed in the event the undersigned bidder is awarded this contract.

The undersigned bidder projects that: (number) _____ new hires would be recruited from the area in which the contract project is located; and/or (number) _____ new hires would be recruited from the area in which the bidder's principal office or base of operation is located.

- C. Included in "Total Employees" under Table A is a projection of numbers of persons to be employed directly by the undersigned bidder as well as a projection of numbers of persons to be employed by subcontractors.

The undersigned bidder estimates that (number) _____ persons will be directly employed by the prime contractor and that (number) _____ persons will be employed by subcontractors.

PART III. AFFIRMATIVE ACTION PLAN

- A. The undersigned bidder understands and agrees that in the event the foregoing minority and female employee utilization projection included under **PART II** is determined to be an underutilization of minority persons or women in any job category, and in the event that the undersigned bidder is awarded this contract, he/she will, prior to commencement of work, develop and submit a written Affirmative Action Plan including a specific timetable (geared to the completion stages of the contract) whereby deficiencies in minority and/or female employee utilization are corrected. Such Affirmative Action Plan will be subject to approval by the contracting agency and the **Department of Human Rights**.
- B. The undersigned bidder understands and agrees that the minority and female employee utilization projection submitted herein, and the goals and timetable included under an Affirmative Action Plan if required, are deemed to be part of the contract specifications.

Company _____

Telephone Number _____

Address _____

NOTICE REGARDING SIGNATURE

The Bidder's signature on the Proposal Signature Sheet will constitute the signing of this form. The following signature block needs to be completed only if revisions are required.

Signature: _____ Title: _____ Date: _____

Instructions: All tables must include subcontractor personnel in addition to prime contractor personnel.

Table A - Include both the number of employees that would be hired to perform the contract work and the total number currently employed (Table B) that will be allocated to contract work, and include all apprentices and on-the-job trainees. The "Total Employees" column should include all employees including all minorities, apprentices and on-the-job trainees to be employed on the contract work.

Table B - Include all employees currently employed that will be allocated to the contract work including any apprentices and on-the-job trainees currently employed.

Table C - Indicate the racial breakdown of the total apprentices and on-the-job trainees shown in Table A.

RETURN WITH BID

ADDITIONAL FEDERAL REQUIREMENTS

In addition to the Required Contract Provisions for Federal-Aid Construction Contracts (FHWA 1273), all bidders make the following certifications.

- A. By the execution of this proposal, the signing bidder certifies that the bidding entity has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action, in restraint of free competitive bidding in connection with the submitted bid. This statement made by the undersigned bidder is true and correct under penalty of perjury under the laws of the United States.
- B. **CERTIFICATION, EQUAL EMPLOYMENT OPPORTUNITY:**
1. Have you participated in any previous contracts or subcontracts subject to the equal opportunity clause. YES _____ NO _____
 2. If answer to #1 is yes, have you filed with the Joint Reporting Committee, the Director of OFCC, any Federal agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements of those organizations? YES _____ NO _____

RETURN WITH BID

**Contract No. 85493
WINNEBAGO County
Section 09-00569-00-RS (Rockford)
Project ARA-5099(098)
Various Routes
District 2 Construction Funds**

PROPOSAL SIGNATURE SHEET

The undersigned bidder hereby makes and submits this bid on the subject Proposal, thereby assuring the Department that all requirements of the Invitation for Bids and rules of the Department have been met, that there is no misunderstanding of the requirements of paragraph 3 of this Proposal, and that the contract will be executed in accordance with the rules of the Department if an award is made on this bid.

(IF AN INDIVIDUAL) Firm Name _____
Signature of Owner _____
Business Address _____

(IF A CO-PARTNERSHIP) Firm Name _____
By _____
Business Address _____
Name and Address of All Members of the Firm: _____

(IF A CORPORATION) Corporate Name _____
By _____
Signature of Authorized Representative _____
Typed or printed name and title of Authorized Representative _____

(IF A JOINT VENTURE, USE THIS SECTION FOR THE MANAGING PARTY AND THE SECOND PARTY SHOULD SIGN BELOW) Attest _____
Signature _____
Business Address _____

(IF A JOINT VENTURE) Corporate Name _____
By _____
Signature of Authorized Representative _____
Typed or printed name and title of Authorized Representative _____

Attest _____
Signature _____
Business Address _____

If more than two parties are in the joint venture, please attach an additional signature sheet.



Return with Bid

Division of Highways
Proposal Bid Bond
(Effective November 1, 1992)

Item No. _____

Letting Date _____

KNOW ALL MEN BY THESE PRESENTS, That We _____

as PRINCIPAL, and _____

_____ as SURETY, are held jointly, severally and firmly bound unto the STATE OF ILLINOIS in the penal sum of 5 percent of the total bid price, or for the amount specified in Article 102.09 of the "Standard Specifications for Road and Bridge Construction" in effect on the date of invitation for bids, whichever is the lesser sum, well and truly to be paid unto said STATE OF ILLINOIS, for the payment of which we bind ourselves, our heirs, executors, administrators, successors and assigns.

THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH, that whereas, the PRINCIPAL has submitted a bid proposal to the STATE OF ILLINOIS, acting through the Department of Transportation, for the improvement designated by the Transportation Bulletin Item Number and Letting Date indicated above.

NOW, THEREFORE, if the Department shall accept the bid proposal of the PRINCIPAL; and if the PRINCIPAL shall, within the time and as specified in the bidding and contract documents, submit a DBE Utilization Plan that is accepted and approved by the Department; and if, after award by the Department, the PRINCIPAL shall enter into a contract in accordance with the terms of the bidding and contract documents including evidence of the required insurance coverages and providing such bond as specified with good and sufficient surety for the faithful performance of such contract and for the prompt payment of labor and material furnished in the prosecution thereof; or if, in the event of the failure of the PRINCIPAL to make the required DBE submission or to enter into such contract and to give the specified bond, the PRINCIPAL pays to the Department the difference not to exceed the penalty hereof between the amount specified in the bid proposal and such larger amount for which the Department may contract with another party to perform the work covered by said bid proposal, then this obligation shall be null and void, otherwise, it shall remain in full force and effect.

IN THE EVENT the Department determines the PRINCIPAL has failed to comply with any requirement as set forth in the preceding paragraph, then Surety shall pay the penal sum to the Department within fifteen (15) days of written demand therefor. If Surety does not make full payment within such period of time, the Department may bring an action to collect the amount owed. Surety is liable to the Department for all its expenses, including attorney's fees, incurred in any litigation in which it prevails either in whole or in part.

In TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by

their respective officers this _____ day of _____ A.D., _____ .

PRINCIPAL

SURETY

(Company Name)

(Company Name)

By _____
(Signature & Title)

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

Notary Certification for Principal and Surety

STATE OF ILLINOIS,
County of _____

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

_____ and _____
(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 instrument as their free and voluntary act for the uses and purposes therein set forth.

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

My commission expires _____

Notary Public

In lieu of completing the above section of the Proposal Bid Form, the Principal may file an Electronic Bid Bond. By signing the proposal and marking the check box next to the Signature and Title line below, the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the State of Illinois under the conditions of the bid bond as shown above.



Electronic Bid Bond ID# _____

Company / Bidder Name _____

Signature and Title _____

PROPOSAL ENVELOPE



PROPOSALS

for construction work advertised for bids by the
Illinois Department of Transportation

Item No.	Item No.	Item No.

Submitted By:

Name:
Address:
Phone No.

Bidders should use an IDOT proposal envelope or affix this form to the front of a 10" x 13" envelope for the submittal of bids. If proposals are mailed, they should be enclosed in a second or outer envelope addressed to:

Engineer of Design and Environment - Room 326
Illinois Department of Transportation
2300 South Dirksen Parkway
Springfield, Illinois 62764

NOTICE

Individual bids, including Bid Bond and/or supplemental information if required, should be securely stapled.

CONTRACTOR OFFICE COPY OF CONTRACT SPECIFICATIONS

NOTICE

None of the following material needs to be returned with the bid package unless the special provisions require documentation and/or other information to be submitted.

**Contract No. 85493
WINNEBAGO County
Section 09-00569-00-RS (Rockford)
Project ARA-5099(098)
Various Routes
District 2 Construction Funds**



Illinois Department of Transportation



NOTICE TO BIDDERS

- 1. TIME AND PLACE OF OPENING BIDS.** Sealed proposals for the improvement described herein will be received by the Department of Transportation at the Harry R. Hanley Building, 2300 South Dirksen Parkway, in Springfield, Illinois until 10:00 o'clock a.m., January 15, 2010. All bids will be gathered, sorted, publicly opened and read in the auditorium at the Department of Transportation's Harry R. Hanley Building shortly after the 10:00 a.m. cut off time.
- 2. DESCRIPTION OF WORK.** The proposed improvement is identified and advertised for bids in the Invitation for Bids as:

**Contract No. 85493
WINNEBAGO County
Section 09-00569-00-RS (Rockford)
Project ARA-5099(098)
Various Routes
District 2 Construction Funds**

Project consists of resurfacing three roadways in the city of Rockford, locations are Alpine Road from Morsay Drive to 200 feet south of Rural Street, South Central Avenue from just north of Ogilby Road to just south of Morgan Street and on West State Street from just east of Kilburn Avenue, to just west of Church Street.

- 3. INSTRUCTIONS TO BIDDERS.** (a) This Notice, the invitation for bids, proposal and letter of award shall, together with all other documents in accordance with Article 101.09 of the Standard Specifications for Road and Bridge Construction, become part of the contract. Bidders are cautioned to read and examine carefully all documents, to make all required inspections, and to inquire or seek explanation of the same prior to submission of a bid.

(b) State law, and, if the work is to be paid wholly or in part with Federal-aid funds, Federal law requires the bidder to make various certifications as a part of the proposal and contract. By execution and submission of the proposal, the bidder makes the certification contained therein. A false or fraudulent certification shall, in addition to all other remedies provided by law, be a breach of contract and may result in termination of the contract.
- 4. AWARD CRITERIA AND REJECTION OF BIDS.** This contract will be awarded to the lowest responsive and responsible bidder considering conformity with the terms and conditions established by the Department in the rules, Invitation for Bids and contract documents. The issuance of plans and proposal forms for bidding based upon a prequalification rating shall not be the sole determinant of responsibility. The Department reserves the right to determine responsibility at the time of award, to reject any or all proposals, to readvertise the proposed improvement, and to waive technicalities.

By Order of the
Illinois Department of Transportation

Gary Hannig,
Acting Secretary

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2010

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS and frequently used RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction (Adopted 1-1-07) (Revised 1-1-10)

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LR 107-3		<input type="checkbox"/> Disadvantaged Business Enterprise Participation	Jan. 1, 2007	Nov. 1, 2008
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LR 107-5		<input type="checkbox"/> Substance Abuse Prevention Program	Jan. 1, 2008	Jan. 8, 2008
LR 108		<input type="checkbox"/> Combination Bids	Jan. 1, 1994	Mar. 1, 2005
LR 212		<input type="checkbox"/> Shaping Roadway	Aug. 1, 1969	Jan. 1, 2002
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LR 355-2		<input type="checkbox"/> Asphalt Stabilized Base Course, Plant Mix	Feb. 20, 1963	Jan. 1, 2007
LR 400-1		<input type="checkbox"/> Bituminous Treated Earth Surface	Jan. 1, 2007	Jan. 1, 2008
LR 400-2		<input type="checkbox"/> Bituminous Surface Mixture (Class B)	Jan. 1, 2008	
LR 402		<input type="checkbox"/> Salt Stabilized Surface Course	Feb. 20, 1963	Jan. 1, 2007
LR 403-2		<input type="checkbox"/> Bituminous Hot Mix Sand Seal Coat	Aug. 1, 1969	Jan. 1, 2007
LR 406		<input type="checkbox"/> Filling HMA Core Holes with Non-shrink Grout	Jan. 1, 2008	
LR 420		<input type="checkbox"/> PCC Pavement (Special)	May 12, 1964	Jan. 2, 2007
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LR 542		<input type="checkbox"/> Pipe Culverts, Type _____ (Furnished)	Sep. 1, 1964	Jan. 1, 2007
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LR 1102		<input type="checkbox"/> Road Mix or Traveling Plan Mix Equipment	Jan. 1, 2007	

BDE SPECIAL PROVISIONS
For the January 15 and March 5, 2010 Lettings

The following special provisions indicated by an "x" are applicable to this contract. An * indicates a new or revised special provision for the letting.

<u>File Name</u>	<u>Pg #</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
80240		Above Grade Inlet Protection	July 1, 2009	
80099		Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2007
80243	11	X American Recovery and Reinvestment Act Provisions	April 1, 2009	
80236	12	X American Recovery and Reinvestment Act Signing	April 1, 2009	April 15, 2009
80186		Alkali-Silica Reaction for Cast-in-Place Concrete	Aug. 1, 2007	Jan. 1, 2009
80213		Alkali-Silica Reaction for Precast and Precast Prestressed Concrete	Jan. 1, 2009	
80207	18	X Approval of Proposed Borrow Areas, Use Areas, and/or Waste Areas Inside Illinois State Borders	Nov. 1, 2008	
80192	19	X Automated Flagger Assistance Device	Jan. 1, 2008	
80173	21	X Bituminous Materials Cost Adjustments	Nov. 2, 2006	April 1, 2009
80241		Bridge Demolition Debris	July 1, 2009	
50261		Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	Jan. 1, 2007
50481		Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	Jan. 1, 2007
50491		Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	Jan. 1, 2007
50531		Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	Jan. 1, 2007
80166	24	X Cement	Jan. 1, 2007	April 1, 2009
80198		Completion Date (via calendar days)	April 1, 2008	
80199		Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80094	27	X Concrete Admixtures	Jan. 1, 2003	April 1, 2009
80214		Concrete Gutter, Type A	Jan. 1, 2009	
80215		Concrete Joint Sealer	Jan. 1, 2009	
80226	31	X Concrete Mix Designs	April 1, 2009	
80237	33	X Construction Air Quality – Diesel Vehicle Emissions Control	April 1, 2009	July 1, 2009
80239	35	X Construction Air Quality – Idling Restrictions	April 1, 2009	
80227		Determination of Thickness	April 1, 2009	
80177		Digital Terrain Modeling for Earthwork Calculations	April 1, 2007	
80029	37	X Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Jan. 1, 2010
80178	45	X Dowel Bars	April 1, 2007	Jan. 1, 2008
80179		Engineer's Field Office Type A	April 1, 2007	Aug. 1, 2008
80205		Engineer's Field Office Type B	Aug. 1, 2008	
80189	46	X Equipment Rental Rates	Aug. 2, 2007	Jan. 2, 2008
80244		Filter Fabric	Nov. 1, 2009	Jan. 1, 2010
80228	48	X Flagger at Side Roads and Entrances	April 1, 2009	
80249		Frames and Grates	Jan. 1, 2010	
80229		Fuel Cost Adjustment	April 1, 2009	July 1, 2009
80169		High Tension Cable Median Barrier	Jan. 1, 2007	April 1, 2009
80194		HMA – Hauling on Partially Completed Full-Depth Pavement	Jan. 1, 2008	
80245	49	X Hot-Mix Asphalt – Anti-Stripping Additive	Nov. 1, 2009	
80246	50	X Hot-Mix Asphalt – Density Testing of Longitudinal Joints	Jan. 1, 2010	
80250	51	X Hot-Mix Asphalt – Drop-Offs	Jan. 1, 2010	
80201	52	X Hot-Mix Asphalt – Plant Test Frequency	April 1, 2008	Jan. 1, 2010
80251	54	X Hot-Mix Asphalt – QC/QA Acceptance Criteria	Jan. 1, 2010	
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80252	56	X Improved Subgrade	Jan. 1, 2010	
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80196		Mast Arm Assembly and Pole	Jan. 1, 2008	Jan. 1, 2009
80045		Material Transfer Device	June 15, 1999	Jan. 1, 2009
80203		Metal Hardware Cast into Concrete	April 1, 2008	April 1, 2009
80165		Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
80238	59	X Monthly Employment Report	April 1, 2009	

File Name	Pg #		Special Provision Title	Effective	Revised
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80180	62	X	National Pollutant Discharge Elimination System / Erosion and Sediment Control Deficiency Deduction	April 1, 2007	Nov. 1, 2009
80208			Nighttime Work Zone Lighting	Nov. 1, 2008	
80182			Notification of Reduced Width	April 1, 2007	
80069			Organic Zinc-Rich Paint System	Nov. 1, 2001	Jan. 1, 2010
80216			Partial Exit Ramp Closure for Freeway/Expressway	Jan. 1, 2009	
80231	64	X	Pavement Marking Removal	April 1, 2009	
80254	65	X	Pavement Patching	Jan. 1, 2010	
80022	66	X	Payments to Subcontractors	June 1, 2000	Jan. 1, 2006
80209	68	X	Personal Protective Equipment	Nov. 1, 2008	
80232			Pipe Culverts	April 1, 2009	
80119			Polyurea Pavement Marking	April 1, 2004	Jan. 1, 2009
80210			Portland Cement Concrete Inlay or Overlay	Nov. 1, 2008	
80170			Portland Cement Concrete Plants	Jan. 1, 2007	
80217			Post Clips for Extruded Aluminum Signs	Jan. 1, 2009	
80171			Precast Handling Holes	Jan. 1, 2007	
80218			Preventive Maintenance – Bituminous Surface Treatment	Jan. 1, 2009	April 1, 2009
80219			Preventive Maintenance – Cape Seal	Jan. 1, 2009	April 1, 2009
80220			Preventive Maintenance – Micro-Surfacing	Jan. 1, 2009	
80221			Preventive Maintenance – Slurry Seal	Jan. 1, 2009	
80211			Prismatic Curb Reflectors	Nov. 1, 2008	
80015			Public Convenience and Safety	Jan. 1, 2000	
34261			Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157			Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
80247			Raised Reflective Pavement Markers	Nov. 1, 2009	
80223			Ramp Closure for Freeway/Expressway	Jan. 1, 2009	
80172	69	X	Reclaimed Asphalt Pavement (RAP)	Jan. 1, 2007	Jan. 1, 2010
80183	77	X	Reflective Sheeting on Channelizing Devices	April 1, 2007	Nov. 1, 2008
80206			Reinforcement Bars – Storage and Protection	Aug. 1, 2008	April 1, 2009
80224			Restoring Bridge Approach Pavements Using High-Density Foam	Jan. 1, 2009	
80131	78	X	Seeding	July 1, 2004	Jan. 1, 2010
80152	81	X	Self-Consolidating Concrete for Cast-In-Place Construction	Nov. 1, 2005	Jan. 1, 2009
80132	86	X	Self-Consolidating Concrete for Precast Products	July 1, 2004	Jan. 1, 2007
80127			Steel Cost Adjustment	April 2, 2004	April 1, 2009
80255			Stone Matrix Asphalt	Jan. 1, 2010	
80234			Storm Sewers	April 1, 2009	
80143	88	X	Subcontractor Mobilization Payments	April 2, 2005	
80075			Surface Testing of Pavements	April 1, 2002	Jan. 1, 2007
80087	89	X	Temporary Erosion Control	Nov. 1, 2002	Jan. 1, 2010
80256			Temporary Longitudinal Traffic Barrier System	Jan. 1, 2010	
80225			Temporary Raised Pavement Marker	Jan. 1, 2009	
80176	91	X	Thermoplastic Pavement Markings	Jan. 1, 2007	
80257			Traffic Barrier Terminal, Type 6	Jan. 1, 2010	
20338			Training Special Provisions	Oct. 15, 1975	
80258			Truck Mounted/Trailer Mounted Attenuators	Jan. 1, 2010	
80071	93	X	Working Days	Jan. 1, 2002	

The following special provisions are in the 2010 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>
80193	Concrete Barrier	Section 637	Jan. 1, 2008	
80175	Epoxy Pavement Markings	Section 1095	Jan. 1, 2007	
80181	Hot-Mix Asphalt – Field Voids in the Mineral Aggregate	Section 1030	April 1, 2007	April 1, 2008
80136	Hot-Mix Asphalt Mixture IL-4.75	Sections 406, 1003, 1030, 1032 and 1102	Nov. 1, 2004	Jan. 1, 2008
80195	Hot-Mix Asphalt Mixture IL-9.5L	Sections 1004 and 1030	Jan. 1, 2008	
80129	Notched Wedge Longitudinal Joint	Section 406	July 1, 2004	Jan. 1, 2007
80235	Payrolls and Payroll Records	Check Sheets #1 and #5	Mar. 1, 2009	July 1, 2009
80134	Plastic Blockouts for Guardrail	Section 630	Nov. 1, 2004	Jan. 1, 2007
80151	Reinforcement Bars	Section 1006	Nov. 1, 2005	April 1, 2009
80184	Retroreflective Sheeting, Nonreflective Sheeting, and Translucent Overlay Film for Highway Signs	Sections 1090, 1091, 1092 and 1093	April 1, 2007	
80212	Sign Panels and Sign Panel Overlays	Supplemental	Nov. 1, 2008	
80197	Silt Filter Fence	Sections 1080 and 1081	Jan. 1, 2008	
80153	Steel Plate Beam Guardrail	Section 1006	Nov. 1, 2005	Aug. 1, 2007
80191	Stone Gradation Testing	Section 1005	Nov. 1, 2007	
80185	Type ZZ Retroreflective Sheeting, Nonreflective Sheeting, and Translucent Overlay Film for Highway Signs	Sections 1090, 1091, 1092 and 1093	April 1, 2007	
80149	Variable Spaced Tining	Section 420	Aug. 1, 2005	Jan. 1, 2007
80204	Woven Wire Fence	Section 1006	April 1, 2008	

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



Special Provisions

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", Adopted January 1, 2007, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", and the "Manual of Test Procedures of Materials" in effect on the date of invitation of bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included here in which apply to and govern the construction of Section 09-00569-00-RS, Rockford, and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

All work on City of Rockford Water Division facilities, new or existing shall be in accordance with the Standard Specifications for Water and Sewer Construction in Illinois and the latest revision of Chapter II, Section 12 of the City of Rockford Engineering Design Manual. All work on Rock River Water Reclamation facilities shall be in accordance with the General Provisions and Technical Specifications for Sanitary Sewer Construction in the Rock River Water Reclamation District, latest edition, and all standards and revisions adopted by the Board of Trustees for said Rock River Water Reclamation District shall also apply to this improvement where appropriate. Style, type and grade of all materials used for construction shall be approved by the City of Rockford Public Works Department, City of Rockford Water Division and Rock River Water Reclamation District prior to bidding, ordering or placing any materials.

Herein after the terms "Owner", "City" or "Engineer" shall mean the City of Rockford or its designated representative and the term "Contractor" shall mean the entity who proposes to perform the work herein described or its designated subcontractors.

The following Special Provisions supplement the said specifications and, in case of conflict with any part or parts of said specifications, these Special Provisions shall take precedence and shall govern:

DESCRIPTION OF WORK

This work involves improvements on three roadways in the City of Rockford. Proposed improvements on Alpine Road are from Morsay Drive to 200 feet south of Rural Street. Proposed improvements on South Central Avenue are from just north of Ogilby Road to just south of Morgan Street. There is an omission at Montague Street. Proposed improvements on West State Street are from just east of Kilburn Avenue to just west of Church Street. Included in this work is pavement patching, milling, and hot-mix asphalt overlays. ADA curb ramps with detectable warnings will also be installed which will include curb and gutter and sidewalk removal and replacement at these locations.

CONSTRUCTION STAKING COMPLETE

The Engineer shall be responsible for setting and staking all elevations needed for the placement of the new curb and gutter. Any deviation from plans and grades, as established by the Engineer in the field, without written authorization from the Engineer will not be accepted for payment until the Contractor has corrected the construction to the satisfaction of the Engineer.

CONSTRUCTION INSPECTION

Any work performed without the presence of a City designated representative to inspect said construction will not be accepted for payment as directed by the Engineer. The Contractor shall notify the Engineer a minimum of 48 hours in advance of the start of construction or the continuation of construction following a pause in work.

EXISTING UTILITIES AND DRAINAGE STRUCTURES LOCATIONS

The contractor shall make his own investigation to verify or determine the existence, nature and location of all utilities on the site that may interfere with construction before starting his operations. Care should be taken while working near these utilities to prevent their damage.

REQUIREMENTS FOR UNSCHEDULED (EMERGENCY) WATER MAIN VALVE SHUT OFF:

- a) In the event the Contractor must perform an unscheduled water main valve shut off; the Contractor shall notify the Water Division Operations Center Operator (815-987-5712) as soon as possible.
- b) The Contractor shall notify all water customers affected by the water main valve shut off and the need to boil water as soon as possible, using forms supplied by the Water Division.
- c) The Contractor shall provide the following information (pursuant to Illinois Municipal Code 65 ILCS 5/11-20-10.5):
 - Streets and boundaries of shut down
 - Time of shut down
 - Approximate duration of shut down
 - Number of customers affected
- If non-residential customers (hospitals, nursing homes, restaurants, etc.) are affected, a count of how many individuals affected will be provided.
- d) If the Contractor is involved in repairs, the Contractor shall notify Water Division Operations Center Operator upon completion of repairs when water service has been restored.

SAW CUTTING

This work shall consist of sawing existing pavements to such a depth that when the pavement is removed, a clean neat edge will result with no spalling of the remaining pavement. Saw cutting shall be performed at all locations where pavement, curb and gutter, or sidewalk are removed and will be replaced. This work item shall be considered incidental to construction and no further compensation will be allowed.

PAVEMENT MARKING

No locations for the short-term, temporary or permanent pavement markings are given in the plans. Temporary and permanent markings shall match markings as they exist in the field or were intended to exist if markings have deteriorated. The Engineer will have existing quantities and locations and will mark locations for installation of all pavement markings. Short term pavement markings shall be in accordance with Section 703 of the Standard Specifications.

EARTH EXCAVATION

This work shall be constructed in accordance with Section 202 of the Standard Specifications. This work shall include the excavation in the areas of Subgrade Replacement in accordance with IDOT District 2 Highway Standard 97.4 and as directed by the Engineer. This work will not be paid for separately but will be included in the contract unit price for GRANULAR SUBGRADE REPLACEMENT.

DROP-OFF LIMITATIONS BETWEEN TRAVELLED LANES

The height of all vertical milled faces shall be limited to 1 ½ inches between travelled lanes. All HOT-MIX ASPHALT SURFACE REMOVAL pay items thicker than 1 ½ inches shall be done in multiple passes not exceeding 1 ½ inches each.

INLET AND PIPE PROTECTION

This work shall conform to Section 280 - Temporary Erosion Control of the Standard Specifications. This work shall conform to all requirements of Part IV in the General NPDES Permit No. ILR10. The management practices, controls, and other provisions contained in the erosion and sediment control plan must be at least as protective as the requirements contained in the Illinois Urban Manual.

This item shall include all labor, materials and equipment needed for the installation, maintenance, removal, quantification, and disposal of the temporary erosion control system. This item must be installed, inspected and approved before construction activities begin, and proper protection must be maintained until the site is deemed stabilized by the Engineer and the volume of sediment collected is quantified and documented.

Siltation bags such as "Catch-All Sediment Bags" or approved equal shall be used to protect the inlets from siltation and to gather siltation for quantification, documentation and disposal of debris/silt.

Material gathered by the siltation bags must be quantified as directed by the Engineer prior to disposal. Quantifying of this material shall be done during the required maintenance schedule of this item as specified in the Storm Water Pollution Prevention Plan (SWPPP) for this project.

Basis of Payment. This work will be paid for at the contract unit price per each for **INLET AND PIPE PROTECTION**, which shall include the cost of any work required by the SWPPP for this project.

POLYMERIZED HOT-MIX SURFACE COURSE, MIX "C", N50
POLYMERIZED HOT-MIX SURFACE COURSE, MIX "D", N50
POLYMERIZED HOT-MIX SURFACE COURSE, MIX "E", N50

This work shall be constructed in accordance with Section 406 of the Standard Specifications and the design tables included herein.

Mix designs and materials inspection reports must be submitted to the City for approval prior to Notice to Proceed of contract.

Vibrating Rollers will not be allowed on residential streets unless specified by the Engineer. In the absence of a vibratory roller on streets, densities shall be 93% minimum unless specified by the Engineer.

Article 406.17 shall be modified to read: "To insure thorough and continuous bond between old and new pavements, or between successive day's work or when the temperatures of the previously laid materials drops below 150 degrees the contact surface shall be sprayed or painted with a thin, uniform coating of asphalt: SS1", which will be paid per gallon for BITUMINOUS MATERIALS (PRIME COAT).

Basis of Payment. This work will be paid for at the contract unit price per ton for **POLYMERIZED HOT-MIX SURFACE COURSE**, of the type and mix specified.

PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH

This work shall conform to Section 424 of the Standard Specifications and the detail herein.

Surface shall be scored in five (5) foot squares with a directional broom finish. Tooled joints, which are at right angles to the edge of the walk, should be placed at five foot (5') intervals. These joints shall be at least 1 1/2 inches deep and not less than 1/8 inches wide, but no more than 1/4 inches wide.

Expansion joints (1/2 inch) shall be placed in the sidewalks at intervals of 50 feet. They shall also be placed between the new sidewalks and the existing pavements. Asphalt joints or fiber joints with rubber joint sealer may be used. Expansion joints (1/2 inch) shall be placed between all existing structures and the new sidewalks.

Curing and protection shall be in accordance with Article 1020.13 of the Standard Specifications.

Curb Ramps shall include welded wire fabric reinforcement as shown on the detail herein. The detectable warning portion of the curb ramp shall be paid for separately as **DETECTABLE WARNINGS**.

The contractor shall place a minimum 2" thickness of aggregate base stone under the proposed sidewalk. All base under the proposed sidewalks shall be compacted to the satisfaction of the Engineer. The cost of the additional aggregate base shall be included in this work at no additional cost to the contract.

Basis of Payment. This work will be paid for at the contract unit price per square foot for **PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH** which price shall include sub-grade preparation and a 2" minimum thickness of Aggregate Base Course Type B.

DETECTABLE WARNINGS

This work shall conform to Section 424 of the Standard Specifications and the details herein, and Standard 424001. Detectable warnings shall consist of a surface of truncated domes aligned in a square pattern (parallel alignment) or triangular pattern. Dome spacing, dome size and detectable warning location are shown in Highway Standard 424001 "Curb Ramps for Sidewalks". Detectable warning surfaces shall contrast visually with the adjacent walking surfaces by having light on dark or dark on light; and shall extend 24 inches in the direction of travel. The required texturing shall be truncated dome construction and shall consist of Federal Standard color 30166 to meet the contrast requirement.

Detectable warnings shall be manufactured products set in the poured sidewalk. Provide detectable warnings made of glass and carbon reinforced composite, as manufactured by ADA Solutions, Inc of N. Billerica, MA or approved equal. Box outs with poured colored concrete will not be allowed. Physical characteristics: Compressive Strength 28,900 psi (ASTM D695), Flexural Strength 29,300 psi (ASTM D790), Slip Resistance 1.18 dry/1.05 Wet (ASTM C1028).

Basis of Payment. This work will be paid for at the contract unit price per square foot for **DETECTABLE WARNINGS**, which price shall include all necessary labor and materials.

HOT-MIX SURFACE REMOVAL, 2"

HOT-MIX SURFACE REMOVAL, 2 1/2"

HOT-MIX SURFACE REMOVAL, VARIABLE DEPTH

This work shall conform to Section 440 of the Standard Specifications. Where they are encountered, removal of raised reflective pavement markers shall be considered as included in these pay items.

The area of hot-mix surface removal shall be as indicated in the plans or as directed by the Engineer in the field. Surface removal at sidestreets shall taper to a depth which matches the depth of the surface course as a minimum.

The Contractor shall take care that a clean neat edge is left without damaging the adjacent pavement or curb & gutter. The Contractor shall be responsible for the disposal of all removed surface material.

Basis of Payment. This work will be paid for at the contract unit price per square yard of **HOT-MIX SURFACE REMOVAL**, of the depth specified or at the direction of the Engineer.

COMBINATION CURB AND GUTTER REMOVAL

This work shall be in accordance with Section 440 of the Standard Specifications for Roads and Bridge Construction. This work shall include the removal of the curb and gutter in order to install the new curb ramps and in accordance with the detail shown on the plans. Any pavement removal or earth excavation needed for the removal of the existing curb and gutter shall be included in this work.

Basis of Payment: This work will be paid for at the contract unit price per foot for **COMBINATION CURB AND GUTTER REMOVAL**.

CLASS D PATCHES, TYPE I

CLASS D PATCHES, TYPE III

CLASS D PATCHES, TYPE IV

This work shall be in accordance with Section 442 of the Standard Specifications for Road and Bridge Construction and the details included in the plans.

This work shall consist of the removal and disposal of the existing deteriorated pavement at locations as directed by the Engineer. On Alpine Road, the removed asphalt shall be replaced with an asphalt patch of varying thickness. On South Central Avenue, patches shall be 4 1/2" thick for those patches north of Montague Street. Final patching locations may vary from the schedule as determined by the Engineer after the rotomilling is complete.

Patching shall be done so that a minimum of one lane in each direction is maintained at all times.

Basis of Payment: This work will be paid for at the contract unit price per square yards for **CLASS D PATCHES**, of the type specified, which shall include the reshaping of the aggregate base as needed.

MANHOLES TO BE ADJUSTED

This item includes furnishing all labor and materials needed to bring the manholes to the new grade of the street as specified by the Engineer. This work shall be done in accordance with Section 602 of the Standard Specifications except that only Class SI concrete shall be used to fill around the frame.

Basis of Payment. This work will be paid for at the contract unit price per each for **MANHOLES TO BE ADJUSTED.**

MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID

This item includes furnishing all labor and materials needed to bring the manholes to the new grade of the street as specified by the Engineer and shall include a new Type 1 Frame and Closed Lid. This work shall be done in accordance with Section 602 of the Standard Specifications except that only Class SI concrete shall be used to fill around the new frame. The new castings shall be in accordance with City of Rockford requirements. The old frame and lid that is removed will become the property of the City of Rockford.

Basis of Payment. This work will be paid for at the contract unit price per each for **MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID.**

VALVE VAULTS TO BE ADJUSTED

This item includes furnishing all labor and materials needed to bring the valve vault to the new grade of the street as specified by the Engineer. This work shall be done in accordance with Section 602 of the Standard Specifications except that only Class SI concrete shall be used to fill around the frame.

Basis of Payment. This work will be paid for at the contract unit price per each for **VALVE VAULTS TO BE ADJUSTED.**

VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID

This item includes furnishing all labor and materials needed to bring the valve vault to the new grade of the street as specified by the Engineer and shall include a new Type 1 Frame and Closed Lid. This work shall be done in accordance with Section 602 of the Standard Specifications except that only Class SI concrete shall be used to fill around the frame. The new castings shall be in accordance with City of Rockford requirements. The old frame and lid that is removed will become the property of the City of Rockford.

Basis of Payment. This work will be paid for at the contract unit price per each for **VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID.**

COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.18
COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.18 (MODIFIED)
COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.30

This work shall conform to Section 606 of the Standard Specifications and shall be constructed in accordance with the details as shown herein. One inch (1") Ceramer expansion joint material or an Engineer approved equal, shall be installed at 100 foot intervals, at all radii points, and 5 feet each side of inlets when not at radii. Each expansion joint shall be finished with an Engineer approved caulking material that fills the void between the Ceramer expansion joint material and the face of the curb. Aggregate required under the curb shall be the thickness shown on the Plans.

Top of curb grades are not given and will be determined in the field by the Engineer and the Contractor.

The replacement of pavement which was removed during the curb and gutter removal shall be included in this work. This replaced pavement shall match the section of pavement adjacent to the removal area.

The contractor shall place a 6" minimum thickness of aggregate base stone under the proposed curb and gutter as needed. All base under the proposed curb and gutter shall be compacted to the satisfaction of the Engineer. The cost of the additional aggregate base shall be included in this work at no additional cost to the owner.

Basis of payment: This work will be paid for at the contract unit price per foot for **COMBINATION CONCRETE CURB AND GUTTER.** of the type specified, which price shall include sub-grade preparation, a 6" minimum thickness of Aggregate Base Course Type B, expansion joints, and the pavement to be replaced as discussed above.

TRAFFIC CONTROL AND PROTECTION

Traffic Control shall be according to the applicable sections of the Standard Specifications for Road and Bridge Construction, the applicable guidelines contained in the National Manual on Uniform Traffic Control Devices for Streets and Highways, Illinois Supplement to the National Manual on Uniform Traffic Control Devices, these special provisions, and any special details and Highway Standards contained herein and in the plans.

Special attention is called to Articles 107.09 and 107.14 of the Standard Specifications for Road and Bridge Construction and the following Highway Standards relating to traffic control.

Standards:

701006	701101	701301	701311	701426	701501	701602
701606	701701	701801	701901	720011	728001	729001

Details:

91.2	94.2
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General:

Where construction activities involve sidewalks on both sides of the street, the work shall be staged so that both sidewalks are not out of service at the same time.

Signs:

All regulatory signs shall be maintained at a minimum of 7' to the bottom of the sign.

No bracing shall be allowed on post-mounted signs.

Post-mounted signs shall be installed using standard 720011, 728001, 729001, on 4"x4" wood posts, or on any other "break away" connection if accepted by the FHWA and corresponding letter is provided to the resident.

All signs are required on both sides of the road when the median is greater than 10 feet and on one way roadways.

The "WORKERS" (W21-1a(O)-48) signs shall be replaced with symbol "Right or Left Lane Closed Ahead" (W4-2R or L(O)-48) signs on multilane roadways.

"BUMP" (W8-1(O)48) signs shall be installed as directed by the Engineer.

"UNEVEN LANES" W8-11(O)48 signs shall be installed at 1 mile intervals or as directed by the Engineer.

"LOW SHOULDER" W8-9(O)48 signs shall be installed at 1 mile intervals or as directed by the Engineer.

When covering existing Department signs, no tape shall be used on the reflective portion of the sign. Contact the District sign shop for covering techniques.

Devices:

A minimum of 3 drums spaced at 4 feet shall be placed at each return when the sideroad is open.

Vertical barricades shall not be used in weaves, and in the gore areas on Highway Standard 701411 or District 2 Highway Standard 94.2.

Lights:

Steady burn mono-directional lights are required on devices delineating a widening trench.

Flaggers:

Flaggers shall comply with all requirements contained in the Department's "Flagger Handbook" with the following exception: The ANSI Class 2 vest will not be supplied by the Department.

In addition to the flaggers shown on applicable standards, on major sideroads listed below, flaggers shall be required on all legs of the intersection. Major sideroads for Alpine Road shall be Morsay Drive, Maray Drive, and Eastridge Drive. For Central Avenue, the major sideroad shall be Montague Avenue and for W. State Street, the major sideroad shall be Winnebago Street.

When the road is closed to through traffic and it is necessary to provide access for local traffic, all flaggers as shown on the applicable standards will be required. No reduction in the number of flaggers shall be allowed.

Pavement Marking:

All temporary pavement markings that will be operational during the winter months (December through March) shall be paint.

Maintenance of Traffic:

Traffic shall be maintained using Traffic Control and Protection Standard 701602.

The Contractor shall be required to notify the City of Rockford Department of Public Works, emergency response agencies (i.e.: fire, ambulance, police), school bus companies and the Department of Transportation (Bureau of Project Implementation) regarding any changes in traffic control.

The Contractor shall be required to notify the City of Rockford Department of Public Works for any sideroad closure or opening.

The Contractor shall submit a maintenance of local traffic plan to the Engineer at the preconstruction meeting telling how local access will be maintained at each access location. It will show which locations will be completely closed, and which locations will be constructed utilizing Traffic Control Standard 701602 for Alpine Road, 701501 for W. State Street and S. Central Avenue, and/or barricades. This traffic plan will need to be approved by the Engineer before the roadway is closed to traffic.

The Contractor shall be responsible for providing a weekly article and map to the news media (Rockford Register Star and local television stations) describing work being performed and stages closed to traffic.

The surface removal, sawing of patches, pavement patch removal and replacement, and resurfacing shall be completed using Traffic Control and Protection Standard 701602 for Alpine Road, and 701501 for W. State Street and S. Central Avenue.

The ADA handicapped ramp placement shall be completed using Traffic Control and Protection Standard 701701 and 701801.

Placing and removing pavement marking shall be completed using Traffic Control and Protection Standard 701311 or 701426.

A Changeable Message Sign shall be placed at each end of the Alpine Road work zone. A total of 2 signs are required and shall be placed 2 weeks prior to the start of construction work on Alpine Road. The signs shall notify drivers of the construction start and completion dates. Additional messages may be required as directed by the Engineer. This work shall be paid for separately at the contract unit price per calendar months for CHANGEABLE MESSAGE SIGN.

Construction work to be done under this contract shall be performed during the hours of 7:00 AM to 6:00 PM. Lane closures for patching work are allowed to remain in place overnight and through weekends if one lane of traffic is open in each direction. Overnight and weekend lane closures will not be allowed for milling and resurfacing work. Changes in the traffic control will not be permitted during peak traffic hours. One lane of traffic in each direction is to be maintained at all times.

All lanes shall be open for holiday periods as defined in Article 107.09 of the Standard Specifications.

Basis of Payment: This work will be paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION, which price shall be payment in full for all labor, materials, transportation, handling and incidental work necessary to furnish, install, maintain and remove all traffic control devices as indicated in these Specifications and as directed by the Engineer.

SANITARY MANHOLES TO BE ADJUSTED
ADJUST SANITARY SEWER CLEANOUT

This item includes furnishing all labor and materials, needed to bring the sanitary manholes or cleanouts to the new grade of the street as specified by the Engineer and in accordance with Section 602 of the Standard Specifications. This work shall also be in accordance with the Rock River Water Reclamation District standards and requirements. Only Class SI concrete shall be used to fill around the new frame and lid. New castings for the manholes will be furnished by the Rock

River Water Reclamation District. The old frame and lid will become the property of the Rock River Water Reclamation District.

Basis of Payment: This work will be paid for at the contract unit price per each for **SANITARY MANHOLES TO BE ADJUSTED** or **ADJUST SANITARY SEWER CLEANOUT**.

PARKWAY RESTORATION

This work shall consist of repairing all disturbed areas with 4" of topsoil and seeding. Topsoil material shall be indigenous to Winnebago County and may be used providing it meets with the requirements of Article 1081.05 of the Standard Specifications and has no more than 55 percent sand content as determined in accordance with AASHTO T88. Seeding method shall consist of applying seed; fertilizer and wood mulch hydraulically on prepared seedbed in accordance with IDOT Section 250 and 251 in so far as said sections apply.

Seeding Class I: Revise IDOT Article 250.07 to read: "Regardless of season, all disturbed areas shall be seeded with following mixture, or equal:

Turf Type Fescue	50 lbs/acre
Kentucky Blue Grass	50 lbs/acre
Manhattan Rye	100 lbs/acre
Ruby Creeping Red Fescue	100 lbs/acre

Seeding will be permitted from April 1 to May 30 and from August 1 to October 10, unless approved by Engineer.

Fertilizer shall be furnished and applied to the following nutrients and percentages by weight in pounds:

Nitrogen	6%
Phosphorus	24% OR BY SOIL ANALYSIS
Potassium	24%

Fertilizer shall be applied at a rate of 300 lbs/acre. Second fertilizer application 3-weeks after seeding of shall be applied at a rate of 10-10-10, and 250 lbs/acre, if good stand is achieved.

Wood Fiber Mulch: This specification describes a mulch for use with the hydraulic application of grass seed which shall consist of specially prepared wood cellulose fiber.

It shall be processed in such a manner that it will contain no growth or germination inhibiting factors and shall be dyed an appropriate color to facilitate metering of materials. It shall be manufactured in such a manner that after addition and agitation in slurry tanks with fertilizers, grass seeds, water, and any other approved additives, the fibers in the material will become uniformly suspended and form a homogeneous slurry; and that when hydraulically sprayed on the ground, the material will form a blotter-like ground cover impregnated uniformly with grass seed, and which after application, will allow the absorption of moisture and percolation of rainfall or mechanical watering to the underlying soil.

The mulch material described above shall be supplied in packages having a gross weight not in excess of 75 lbs. Packages shall be adequately wrapped in paper, polyethylene or other suitable material to prevent loss of spillage during handling. Wood mulch shall be applied at the rate of 0.5 tons per acre.

Weight specifications of this material from suppliers, and for all applications, shall refer only to air dry weight of the fiber material. Absolute air dry weight is based on the normal weight standard of the technical Association of the Pulp and Paper Industry for wood cellulose and is considered equivalent to 10 percent moisture. Each package of the cellulose fiber shall be marked by the manufacturer to show the air-dry weight content.

Suppliers shall be prepared to certify that laboratory and field testing of their product has been accomplished, and that it meets all of the foregoing requirements based upon such testing.

Guarantee: All seeded areas shall be maintained for at least 30 days after application. Scattered bare spots no larger than two square foot will be allowed up to a maximum of 5% of any seeded area including 30-day maintenance and mowing.

Basis of Payment This work will be paid for at the contract lump sum price for **PARKWAY RESTORATION** and shall be full compensation for preparation and restoration of all disturbed areas as specified herein.

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

SPECIAL PROVISION
FOR
INSURANCE

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

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

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

Rockford

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

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

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

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

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

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

AMERICAN RECOVERY AND REINVESTMENT ACT PROVISIONS (BDE)

Effective: April 1, 2009

Required Contract Provision to Implement ARRA Section 902:

Section 902 of the American Recovery and Reinvestment Act (ARRA) of 2009 requires that each contract awarded using ARRA funds allow the U.S. Comptroller General and his representatives with the authority to:

- “(1) to examine any records of the Contractor or any of its subcontractors, or any State or local agency administering such contract, that directly pertain to, and involve transactions relating to, the contract or subcontract; and
- (2) to interview any officer or employee of the Contractor or any of its subcontractors, or of any State or local government agency administering the contract, regarding such transactions.”

Accordingly, the Comptroller General and his representatives shall have the authority and rights as provided under Section 902 of the ARRA with respect to this contract, which is funded with funds made available under the ARRA. Section 902 further states that nothing in this section shall be interpreted to limit or restrict in any way any existing authority of the Comptroller General.

Notification of the Authority of the Inspector General:

Section 1515(a) of the ARRA provides authority for any representatives of the Inspector General to examine any records or interview any employee or officers working on this contract. The Contractor is advised that representatives of the inspector general have the authority to examine any record and interview any employee or officer of the Contractor, its subcontractors or other firms working on this contract. Section 1515(b) further provides that nothing in this section shall be interpreted to limit or restrict in any way any existing authority of an inspector general.

80243

AMERICAN RECOVERY AND REINVESTMENT ACT SIGNING (BDE)

Effective: April 1, 2009

Revised: April 15, 2009

Description. This work shall consist of furnishing, fabricating and installing sign panels, complete with sign faces, legend, and supplemental panels according to Section 720 of the Standard Specifications and as specified herein.

Materials. The "Putting America to Work" sign shall be fabricated using Type AA or AZ fluorescent orange sheeting for the background material with black vinyl or black opaque ink legend, symbol and borders. The "American Recovery and Reinvestment Act" sign shall be fabricated using Type AP green sheeting for the background with Type AP white sheeting for the legend and border. A green translucent overlay film may also be used over white Type AP sheeting to fabricate the "American Recovery and Reinvestment Act" sign.

Sign Layout. See following attachment. The "Putting America to Work" sign shall be 84 in. x 18 in. The "American Recovery and Reinvestment Act" sign shall be 84 in x 60 in.

General. The signs shall be erected to applicable portions of Article 701.14 of the Standard Specifications. These signs shall be erected midway between the first and second warning signs as required by the traffic control plan and standards utilized for this project. If the second warning sign is defining a moving or intermittent operation, the sign may be maintained at a distance of 500 ft (150 m) beyond the first post mounted ROAD CONSTRUCTION AHEAD sign. The signs shall remain in place for the duration of the project. Upon completion of the project, the signs and posts shall be removed and shall remain the property of the Contractor.

Basis of Payment. This work will not be paid for separately but shall be included in the cost of Traffic Control items as shown on the plans.

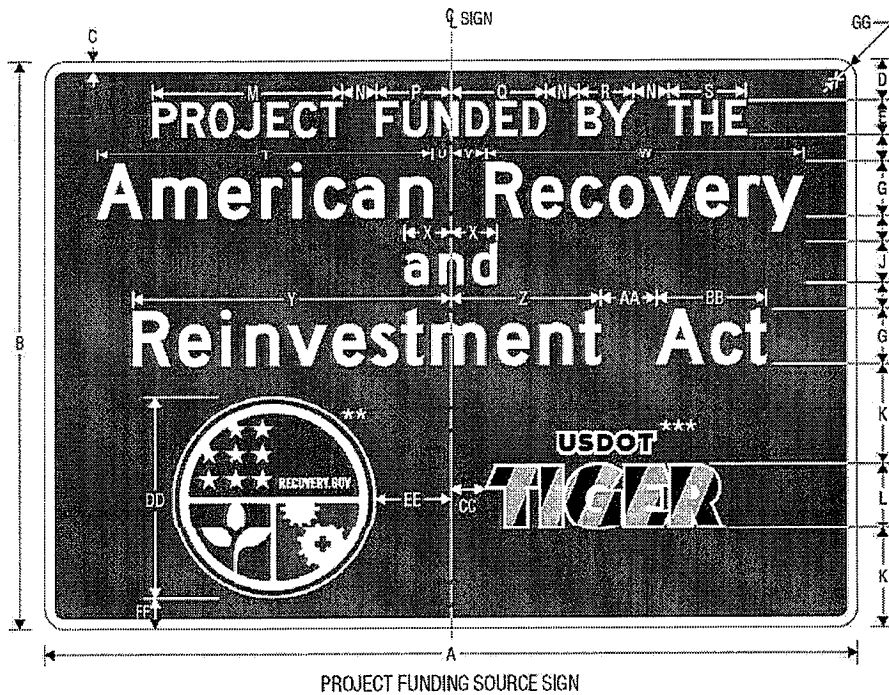
80236

**PROJECT FUNDING SOURCE SIGN ASSEMBLY
AMERICAN RECOVERY AND REINVESTMENT ACT
SIGN LAYOUT DETAILS**



PROJECT FUNDING SOURCE
SIGN ASSEMBLY

PROJECT FUNDING SOURCE SIGN ASSEMBLY AMERICAN RECOVERY AND REINVESTMENT ACT SIGN LAYOUT DETAILS



NOTE: SIGN SHALL NOT BE INSTALLED WITHOUT PROJECT FUNDING SOURCE PLAQUE

Dimensions in inches

A	B	C	D	E	F	G	H	J	K	L	M	N	P
120	84	1.5	6	5 D	4.5	8 D*	3.75	6 D* (5 L)	14.5	10	27.917	5	10.831
84	60	1	5	4 C	3.5	6 C*	3	4 D* (3 L)	9.25	7	19.047	4	7.362

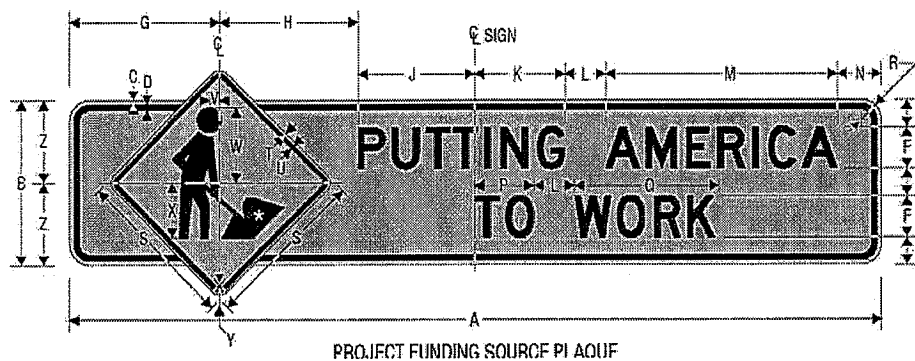
Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD
14.087	8.106	11.556	49.42	2.742	5.258	46.904	6.812	46.76	22.472	8	16.288	5	30
9.494	5.162	7.763	31.722	2.415	3.585	30.552	4.542	30.911	14.737	6	10.175	4	21

EE	FF	GG
11	4.5	3
7.5	2.25	2.25

* Increase character spacing 50%
 ** See Pictograph
 *** See Pictograph

COLORS: LEGEND, BORDER — WHITE (RETROREFLECTIVE)
 BACKGROUND — GREEN (RETROREFLECTIVE)

PROJECT FUNDING SOURCE SIGN ASSEMBLY AMERICAN RECOVERY AND REINVESTMENT ACT SIGN LAYOUT DETAILS



NOTE: PLAQUE SHALL NOT BE INSTALLED
 WITHOUT SIGN

* See *Standard Highway Signs*
 Page 6-59 for symbol design.

Dimensions in inches

A	B	C	D	E	F	G	H	J	K	L	M	N	P
120	24	0.625	0.875	4	6 D	22.349	20.370	17.281	13.28	6	34.22	6.5	8.765
84	18	0.375	0.625	3.5	4 D	16.607	15.606	9.707	10.667	4	22.813	5	5.843

Q	R	S	T	U	V	W	X	Y	Z
21.013	3	24	0.375	0.625	1.5	11	8	1.5	12
14.009	2.25	18	0.375	0.625	1	7	.6	1.5	9

COLORS: LEGEND, BORDER — BLACK
 BACKGROUND — ORANGE (RETROREFLECTIVE)

**PROJECT FUNDING SOURCE SIGN ASSEMBLY
AMERICAN RECOVERY AND REINVESTMENT ACT
SIGN LAYOUT DETAILS**



RECOVERY
Vector-Based, Vinyl-Ready Pictograph

COLORS: LEGEND, OUTLINE	— WHITE (RETROREFLECTIVE)
BORDER	— BLUE (RETROREFLECTIVE)
BACKGROUND (UPPER)	— BLUE (RETROREFLECTIVE)
BACKGROUND (LOWER RIGHT)	— RED (RETROREFLECTIVE)
BACKGROUND (LOWER LEFT)	— GREEN (RETROREFLECTIVE)

**PROJECT FUNDING SOURCE SIGN ASSEMBLY
AMERICAN RECOVERY AND REINVESTMENT ACT
SIGN LAYOUT DETAILS**



USDOT TIGER
Vector-Based, Vinyl-Ready Pictograph

COLORS: OUTLINE	— WHITE (RETROREFLECTIVE)
USDOT LEGEND	— BLACK
TIGER DIAGONALS	— BLACK, ORANGE (RETROREFLECTIVE)

**APPROVAL OF PROPOSED BORROW AREAS, USE AREAS, AND/OR WASTE AREAS
INSIDE ILLINOIS STATE BORDERS (BDE)**

Effective: November 1, 2008

Revise the title of Article 107.22 of the Standard Specifications to read:

"107.22 Approval of Proposed Borrow Areas, Use Areas, and/or Waste Areas Inside Illinois State Borders."

Add the following sentence to the end of the first paragraph of Article 107.22 of the Standard Specifications:

"Proposed borrow areas, use areas, and/or waste areas outside of Illinois shall comply with Article 107.01."

80207

AUTOMATED FLAGGER ASSISTANCE DEVICES (BDE)

Effective: January 1, 2008

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

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

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

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

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

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

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

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

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

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

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

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

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

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

80192

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

Effective: November 2, 2006

Revised: April 1, 2009

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

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

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

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

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

For HMA mixtures measured in square yards: $Q, \text{ tons} = A \times D \times (G_{mb} \times 46.8) / 2000$. For HMA mixtures measured in square meters: $Q, \text{ metric tons} = A \times D \times (G_{mb} \times 24.99) / 1000$. When computing adjustments for full-depth HMA pavement, separate calculations will be made for the binder and surface courses to account for their different G_{mb} and % AC_V.

For bituminous materials measured in gallons: $Q, \text{ tons} = V \times 8.33 \text{ lb/gal} \times SG / 2000$
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_{mb} = Average bulk specific gravity of the mixture, from the approved mix design.
V = Volume of the bituminous material, gal (L).
SG = Specific Gravity of bituminous material as shown on the bill of lading.

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

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

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

CEMENT (BDE)

Effective: January 1, 2007

Revised: April 1, 2009

Revise Section 1001 of the Standard Specifications to read:

"SECTION 1001. CEMENT

1001.01 Cement Types. Cement shall be according to the following.

- (a) Portland Cement. Acceptance of portland cement shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants".

Portland cement shall be according to ASTM C 150, and shall meet the standard physical and chemical requirements. Type I or Type II may be used for cast-in-place, precast, and precast prestressed concrete. Type III may be used according to Article 1020.04, or when approved by the Engineer. All other cements referenced in ASTM C 150 may be used when approved by the Engineer.

The total of all organic processing additions shall be a maximum of 1.0 percent by weight (mass) of the cement. The total of all inorganic processing additions shall be a maximum of 4.0 percent by weight (mass) of the cement. However, a cement kiln dust inorganic processing addition shall be limited to a maximum of 1.0 percent. Organic processing additions shall be limited to grinding aids that improve the flowability of cement, reduce pack set, and improve grinding efficiency. Inorganic processing additions shall be limited to granulated blast-furnace slag according to the chemical requirements of AASHTO M 302, Class C fly ash according to the chemical requirements of AASHTO M 295, and cement kiln dust.

- (b) Portland-Pozzolan Cement. Acceptance of portland-pozzolan cement shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants".

Portland-pozzolan cement shall be according to ASTM C 595 and shall meet the standard physical and chemical requirements. Type IP may be used for cast-in-place, precast, and precast prestressed concrete, except when Class PP concrete is used. The pozzolan constituent for Type IP shall be a maximum of 21 percent of the weight (mass) of the portland-pozzolan cement.

For cast-in-place construction, portland-pozzolan cement shall not be used in concrete mixtures when the air temperature is below 40 °F (4 °C) without permission of the Engineer. If permission is given, the mix design strength requirement may require the Contractor to increase the cement or eliminate the cement factor reduction for a water-

reducing or high range water-reducing admixture which is permitted according to Article 1020.05(b).

The total of all organic processing additions shall be a maximum of 1.0 percent by weight (mass) of the cement. Organic processing additions shall be limited to grinding aids as defined in (a) above. Inorganic processing additions shall be limited to cement kiln dust at a maximum of 1.0 percent.

- (c) Portland Blast-Furnace Slag Cement. Acceptance of portland blast-furnace slag cement shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants".

Portland blast-furnace slag cement shall be according to ASTM C 595 and shall meet the standard physical and chemical requirements. Type IS portland blast-furnace slag cement may be used for cast-in-place, precast, and precast prestressed concrete, except when Class PP concrete is used. The blast-furnace slag constituent for Type IS shall be a maximum of 25 percent of the weight (mass) of the portland blast-furnace slag cement.

For cast-in-place construction, portland blast-furnace slag cement shall not be used in concrete mixtures when the air temperature is below 40 °F (4 °C) without permission of the Engineer. If permission is given, the mix design strength requirement may require the Contractor to increase the cement or eliminate the cement factor reduction for a water-reducing or high range water-reducing admixture which is permitted according to Article 1020.05(b).

The total of all organic processing additions shall be a maximum of 1.0 percent by weight (mass) of the cement. Organic processing additions shall be limited to grinding aids as defined in (a) above. Inorganic processing additions shall be limited to cement kiln dust at a maximum of 1.0 percent.

- (d) Rapid Hardening Cement. Rapid hardening cement shall be used according to Article 1020.04 or when approved by the Engineer. The cement shall be on the Department's current "Approved List of Packaged, Dry, Rapid Hardening Cementitious Materials for Concrete Repairs", and shall be according to the following.

- (1) The cement shall have a maximum final set of 25 minutes, according to Illinois Modified ASTM C 191.
- (2) The cement shall have a minimum compressive strength of 2000 psi (13,800 kPa) at 3.0 hours, 3200 psi (22,100 kPa) at 6.0 hours, and 4000 psi (27,600 kPa) at 24.0 hours, according to Illinois Modified ASTM C 109.
- (3) The cement shall have a maximum drying shrinkage of 0.050 percent at seven days, according to Illinois Modified ASTM C 596.

(4) The cement shall have a maximum expansion of 0.020 percent at 14 days, according to Illinois Modified ASTM C 1038.

(5) The cement shall have a minimum 80 percent relative dynamic modulus of elasticity; and shall not have a weight (mass) gain in excess of 0.15 percent or a weight (mass) loss in excess of 1.0 percent, after 100 cycles, according to AASHTO T 161, Procedure B.

(e) Calcium Aluminate Cement. Calcium aluminate cement shall be used only where specified by the Engineer. The cement shall meet the standard physical requirements for Type I cement according to ASTM C 150, except the time of setting shall not apply. The chemical requirements shall be determined according to ASTM C 114 and shall be as follows: minimum 38 percent aluminum oxide (Al_2O_3), maximum 42 percent calcium oxide (CaO), maximum 1 percent magnesium oxide (MgO), maximum 0.4 percent sulfur trioxide (SO_3), maximum 1 percent loss on ignition, and maximum 3.5 percent insoluble residue.

1001.02 Uniformity of Color. Cement contained in single loads or in shipments of several loads to the same project shall not have visible differences in color.

1001.03 Mixing Brands and Types. Different brands or different types of cement from the same manufacturing plant, or the same brand or type from different plants shall not be mixed or used alternately in the same item of construction unless approved by the Engineer.

1001.04 Storage. Cement shall be stored and protected against damage, such as dampness which may cause partial set or hardened lumps. Different brands or different types of cement from the same manufacturing plant, or the same brand or type from different plants shall be kept separate."

80166

CONCRETE ADMIXTURES (BDE)

Effective: January 1, 2003

Revised: April 1, 2009

Replace the first paragraph of Article 1020.05(b) of the Standard Specifications to read:

“(b) Admixtures. The use of admixtures to increase the workability or to accelerate the hardening of the concrete will be permitted when approved by the Engineer. Admixture dosages shall result in the mixture meeting the specified plastic and hardened properties. The Department will maintain an Approved List of Corrosion Inhibitors. Corrosion inhibitor dosage rates shall be according to Article 1020.05(b)(12). The Department will also maintain an Approved List of Concrete Admixtures, and an admixture technical representative shall be consulted when determining an admixture dosage from this list. The dosage shall be within the range indicated on the approved list unless the influence by other admixtures, jobsite conditions (such as a very short haul time), or other circumstances warrant a dosage outside the range. The Engineer shall be notified when a dosage is proposed outside the range. To determine an admixture dosage, air temperature, concrete temperature, cement source and quantity, finely divided mineral sources(s) and quantity, influence of other admixtures, haul time, placement conditions, and other factors as appropriate shall be considered. The Engineer may request the Contractor to have a batch of concrete mixed in the lab or field to verify the admixture dosage is correct. An admixture dosage or combination of admixture dosages shall not delay the initial set of concrete by more than one hour. When a retarding admixture is required or appropriate for a bridge deck or bridge deck overlayer pour, the initial set time shall be delayed until the deflections due to the concrete dead load are no longer a concern for inducing cracks in the completed work. However, a retarding admixture shall not be used to further extend the pour time and justify the alteration of a bridge deck pour sequence.

When determining water in admixtures for water/cement ratio, the Contractor shall calculate 70 percent of the admixture dosage as water, except a value of 50 percent shall be used for a latex admixture used in bridge deck latex concrete overlays.”

Revise Section 1021 of the Standard Specifications to read:

“SECTION 1021. CONCRETE ADMIXTURES

1021.01 General. Admixtures shall be furnished in liquid form ready for use. The admixtures shall be delivered in the manufacturer's original containers, bulk tank trucks or such containers or tanks as are acceptable to the Engineer. Delivery shall be accompanied by a ticket which clearly identifies the manufacturer and trade name of the material. Containers shall be readily identifiable as to manufacturer and trade name of the material they contain.

Corrosion inhibitors will be maintained on the Department's Approved List of Corrosion Inhibitors. All other concrete admixture products will be maintained on the Department's

Approved List of Concrete Admixtures. For the admixture submittal, a report prepared by an independent laboratory accredited by the AASHTO Materials Reference Laboratory (AMRL) for Portland Cement Concrete shall be provided. The report shall show the results of physical tests conducted no more than five years prior to the time of submittal, according to applicable specifications. However, for corrosion inhibitors the ASTM G 109 test information specified in ASTM C 1582 is not required to be from an independent lab. All other information in ASTM C 1582 shall be from an independent lab.

Tests shall be conducted using materials and methods specified on a "test" concrete and a "reference" concrete, together with a certification that no changes have been made in the formulation of the material since the performance of the tests. Per the manufacturer's option, the cement content for all required tests shall either be according to applicable specifications or 5.65 cwt/cu yd (335 kg/cu m). Compressive strength test results for six months and one year will not be required.

Prior to the approval of an admixture, the Engineer reserves the right to request a sample for testing. The test and reference concrete mixtures tested by the Engineer will contain a cement content of 5.65 cwt/cu yd (335 kg/cu m). For freeze-thaw testing, the Department will perform the test according to AASHTO T 161, Procedure B. The flexural strength test will be performed according to AASHTO T 177. If the Engineer decides to test the admixture, the manufacturer shall submit AASHTO T 197 water content and set time test results on the standard cement used by the Department. The test and reference concrete mixture shall contain a cement content of 5.65 cwt/cu yd (335 kg/cu m). The manufacturer may select their lab or an independent lab to perform this testing. The laboratory is not required to be accredited by AASHTO.

The manufacturer shall include in the submittal the following admixture information: the manufacturing range for specific gravity, the midpoint and manufacturing range for residue by oven drying, and the manufacturing range for pH. The submittal shall also include an infrared spectrophotometer trace no more than five years old.

For air-entraining admixtures according to Article 1021.02, the specific gravity allowable manufacturing range shall be established by the manufacturer and the test method shall be according to ASTM C 494. For residue by oven drying and pH, the allowable manufacturing range and test methods shall be according to ASTM C 260.

For admixtures according to Articles 1021.03, 1021.04, 1021.05, 1021.06, and 1021.07, the pH allowable manufacturing range shall be established by the manufacturer and the test method shall be according to ASTM E 70. For specific gravity and residue by oven drying, the allowable manufacturing range and test methods shall be according to ASTM C 494.

When test results are more than seven years old, the manufacturer shall re-submit the infrared spectrophotometer trace and the report prepared by an independent laboratory accredited by AASHTO.

All admixtures, except chloride-based accelerators, shall contain a maximum of 0.3 percent chloride by weight (mass).

Random field samples may be taken by the Department to verify an admixture meets specification. A split sample will be provided to the manufacturer if requested. Admixtures that do not meet specification requirements or an allowable manufacturing range established by the manufacturer shall be replaced with new material.

1021.02 Air-Entraining Admixtures. Air-entraining admixtures shall be according to AASHTO M 154.

1021.03 Retarding and Water-Reducing Admixtures. The admixture shall be according to the following.

- (a) The retarding admixture shall be according to AASHTO M 194, Type B (retarding) or Type D (water-reducing and retarding).
- (b) The water-reducing admixture shall be according to AASHTO M 194, Type A.
- (c) The high range water-reducing admixture shall be according to AASHTO M 194, Type F (high range water-reducing) or Type G (high range water-reducing and retarding).

1021.04 Accelerating Admixtures. The admixture shall be according to AASHTO M 194, Type C (accelerating) or Type E (water reducing and accelerating).

1021.05 Self-Consolidating Admixtures. The self-consolidating admixture system shall consist of either a high range water-reducing admixture only or a high range water-reducing admixture combined with a separate viscosity modifying admixture. The one or two component admixture system shall be capable of producing a concrete mixture that can flow around reinforcement and consolidate under its own weight without additional effort and without segregation.

The high range water-reducing admixture shall be according to AASHTO M 194, Type F.

The viscosity modifying admixture shall be according to ASTM C 494, Type S (specific performance).

1021.06 Rheology-Controlling Admixture. The rheology-controlling admixture shall be capable of producing a concrete mixture with a lower yield stress that will consolidate easier for slipform applications used by the Contractor. The rheology-controlling admixture shall be according to ASTM C 494, Type S (specific performance).

1021.07 Corrosion Inhibitor. The corrosion inhibitor shall be according to one of the following.

- (a) Calcium Nitrite. The corrosion inhibitor shall contain a minimum 30 percent calcium nitrite by weight (mass) of solution, and shall comply with the requirements of AASHTO M 194, Type C (accelerating).
- (b) Other Materials. The corrosion inhibitor shall be according to ASTM C 1582."

80094

CONCRETE MIX DESIGNS (BDE)

Effective: April 1, 2009

Add the following to Article 1020.05(c) of the Standard Specifications:

“(5) Performance Based Finely Divided Mineral Combination. For Class PV and SI concrete a performance based finely divided mineral combination may be used. The minimum cement factor, maximum cement factor, and water cement ratio of Article 1020.04 shall be replaced with the values below, and the performance based finely divided mineral combination herein is an alternative to Articles 1020.05(c)(1), (c)(2), (c)(3), and (c)(4). The mix design shall meet the following requirements and the Engineer may request a trial batch.

- a. The mixture shall contain a minimum of 375 lbs/cu yd (222 kg/cu m) of portland cement. For a blended cement, a sufficient amount shall be used to obtain the required 375 lbs/cu yd (222 kg/cu m) of portland cement in the mixture. For example, a blended cement stated to have 20 percent finely divided mineral, ignoring any ASTM C 595 tolerance on the 20 percent, would require a minimum of 469 lbs/cu yd (278 kg/cu m) of material in the mixture. When the mixture is designed for cement content from 375 lbs/cu yd (222 kg/cu m) to 400 lbs/cu yd (237 kg/cu m), the total of organic processing additions, inorganic processing additions, and limestone addition in the cement shall not exceed 5.0 percent.
- b. The mixture shall contain a maximum of two finely divided minerals. The finely divided mineral in a blended cement shall count toward the total number of finely divided minerals allowed. The finely divided mineral(s) shall constitute a maximum of 35.0 percent of the total cement plus finely divided mineral(s). The fly ash portion shall not exceed 30.0 percent for Class C fly ash or 25.0 percent for Class F fly ash. The Class C and F fly ash combination shall not exceed 30.0 percent. The ground granulated blast-furnace slag portion shall not exceed 35.0 percent. The microsilica or high-reactivity metakaolin portion used together or separately shall not exceed 5.0 percent. The finely divided mineral in the blended cement shall apply to the maximum 35.0 percent, and shall be determined as discussed in a. above for determining portland cement in blended cement.
- c. For central mixed Class PV and SI concrete, the mixture shall contain a minimum of 535 lbs/cu yd (320 kg/cu m) of cement and finely divided mineral(s) summed together, and a water-reducing admixture shall be used. The value shall be 565 lbs/cu yd (335 kg/cu m) without a water-reducing admixture.

For truck mixed or shrink mixed Class PV and SI concrete, the mixture shall contain a minimum of 575 lbs/cu yd (345 kg/cu m) of cement and finely

divided mineral(s) summed together, and a water-reducing admixture shall be used. The value shall be 605 lbs/cu yd (360 kg/cu m) without a water-reducing admixture.

- d. The mixture shall contain a maximum of 705 lbs/cu yd (418 kg/cu m) of cement and finely divided mineral(s) summed together.
- e. The mixture shall have a water/cement ratio of 0.32 – 0.44.
- f. The mixture shall not be used for placement underwater.
- g. The combination of cement and finely divided mineral(s) shall have an ASTM C 1567 expansion value ≤ 0.16 percent, and shall be performed on the aggregate in the concrete mixture with the highest ASTM C 1260 test result. The ASTM C 1567 test will be valid for two years, unless the Engineer determines the materials have changed significantly.

If during the two year time period the Contractor needs to replace the portland cement, and the replacement portland cement has an equal or lower total equivalent alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$), a new ASTM C 1567 test will not be required. However, replacement of a blended cement with another cement will require a new ASTM C 1567 test."

80226

CONSTRUCTION AIR QUALITY - DIESEL VEHICLE EMISSIONS CONTROL (BDE)

Effective: April 1, 2009

Revised: July 1, 2009

Diesel Vehicle Emissions Control. The reduction of construction air emissions shall be accomplished by using cleaner burning diesel fuel. The term "equipment" refers to any and all diesel fuel powered devices rated at 50 hp and above, to be used on the project site in excess of seven calendar days over the course of the construction period on the project site (including any "rental" equipment).

All equipment on the jobsite, with engine ratings of 50 hp and above, shall be required to: use Ultra Low Sulfur Diesel fuel (ULSD) exclusively (15 ppm sulfur content or less).

Diesel powered equipment in non-compliance will not be allowed to be used on the project site, and is also subject to a notice of non-compliance as outlined below.

The Contractor shall submit copies of monthly summary reports and include certified copies of the ULSD diesel fuel delivery slips for diesel fuel delivered to the jobsite for the reporting time period, noting the quantity of diesel fuel used.

If any diesel powered equipment is found to be in non-compliance with any portion of this specification, the Engineer will issue the Contractor a notice of non-compliance and identify an appropriate period of time, as outlined below under environmental deficiency deduction, in which to bring the equipment into compliance or remove it from the project site.

Any costs associated with bringing any diesel powered equipment into compliance with these diesel vehicle emissions controls shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed. The Contractor's compliance with this notice and any associated regulations shall also not be grounds for a claim.

Environmental Deficiency Deduction. When the Engineer is notified, or determines that an environmental control deficiency exists, he/she will notify the Contractor in writing, and direct the Contractor to correct the deficiency within a specified time period. The specified time-period, which begins upon Contractor notification, will be from 1/2 hour to 24 hours long, based on the urgency of the situation and the nature of the deficiency. The Engineer shall be the sole judge regarding the time period.

The deficiency will be based on lack of repair, maintenance and diesel vehicle emissions control.

If the Contractor fails to correct the deficiency within the specified time frame, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency continues to exist. The calendar day(s) will begin when the time period for correction is exceeded and end

with the Engineer's written acceptance of the correction. The daily monetary deduction will be \$1,000.00 for each deficiency identified.

If a Contractor or subcontractor accumulates three environmental deficiency deductions in a contract period, the Contractor will be shutdown until the deficiency is corrected. Such a shutdown will not be grounds for any extension of contract time, waiver of penalties, or be grounds for any claim.

80237

CONSTRUCTION AIR QUALITY - IDLING RESTRICTIONS (BDE)

Effective: April 1, 2009

Idling Restrictions. The Contractor shall establish truck-staging areas for all diesel powered vehicles that are waiting to load or unload material at the jobsite. Staging areas shall be located where the diesel emissions from the equipment will have a minimum impact on adjacent sensitive receptors. The Department will review the selection of staging areas, whether within or outside the existing highway right-of-way, to avoid locations near sensitive areas or populations to the extent possible. Sensitive receptors include, but are not limited to, hospitals, schools, residences, motels, hotels, daycare facilities, elderly housing and convalescent facilities. Diesel powered engines shall also be located as far away as possible from fresh air intakes, air conditioners, and windows. The Engineer will approve staging areas before implementation.

Diesel powered vehicle operators may not cause or allow the motor vehicle, when it is not in motion, to idle for more than a total of 10 minutes within any 60 minute period, except under any of the following circumstances:

- 1) The motor vehicle has a gross vehicle weight rating of less than 8000 lb (3630 kg).
- 2) The motor vehicle idles while forced to remain motionless because of on-highway traffic, an official traffic control device or signal, or at the direction of a law enforcement official.
- 3) The motor vehicle idles when operating defrosters, heaters, air conditioners, or other equipment solely to prevent a safety or health emergency.
- 4) A police, fire, ambulance, public safety, other emergency or law enforcement motor vehicle, or any motor vehicle used in an emergency capacity, idles while in an emergency or training mode and not for the convenience of the vehicle operator.
- 5) The primary propulsion engine idles for maintenance, servicing, repairing, or diagnostic purposes if idling is necessary for such activity.
- 6) A motor vehicle idles as part of a government inspection to verify that all equipment is in good working order, provided idling is required as part of the inspection.
- 7) When idling of the motor vehicle is required to operate auxiliary equipment to accomplish the intended use of the vehicle (such as loading, unloading, mixing, or processing cargo; controlling cargo temperature; construction operations, lumbering operations; oil or gas well servicing; or farming operations), provided that this exemption does not apply when the vehicle is idling solely for cabin comfort or to operate non-essential equipment such as air conditioning, heating, microwave ovens, or televisions.
- 8) When the motor vehicle idles due to mechanical difficulties over which the operator has no control.
- 9) The outdoor temperature is less than 32 °F (0 °C) or greater than 80 °F (26 °C).

When the outdoor temperature is greater than or equal to 32 °F (0 °C) or less than or equal to 80 °F (26 °C), a person who operates a motor vehicle operating on diesel fuel shall not cause or allow the motor vehicle to idle for a period greater than 30 minutes in any 60 minute period while waiting to weigh, load, or unload cargo or freight, unless the vehicle is in a line of vehicles that regularly and periodically moves forward.

The above requirements do not prohibit the operation of an auxiliary power unit or generator set as an alternative to idling the main engine of a motor vehicle operating on diesel fuel.

Environmental Deficiency Deduction. When the Engineer is notified, or determines that an environmental control deficiency exists based on non-compliance with the idling restrictions, he/she will notify the Contractor, and direct the Contractor to correct the deficiency.

If the Contractor fails to correct the deficiency a monetary deduction will be imposed. The monetary deduction will be \$1,000.00 for each deficiency identified.

80239

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)

Effective: September 1, 2000

Revised: January 1, 2010

FEDERAL OBLIGATION. The Department of Transportation, as a recipient of federal financial assistance, is required to take all necessary and reasonable steps to ensure nondiscrimination in the award and administration of contracts. Consequently, the federal regulatory provisions of 49 CFR part 26 apply to this contract concerning the utilization of disadvantaged business enterprises. For the purposes of this Special Provision, a disadvantaged business enterprise (DBE) means a business certified by the Department in accordance with the requirements of 49 CFR part 26 and listed in the Illinois Unified Certification Program (IL UCP) DBE Directory.

STATE OBLIGATION. This Special Provision will also be used by the Department to satisfy the requirements of the Business Enterprise for Minorities, Females, and Persons with Disabilities Act, 30 ILCS 575. When this Special Provision is used to satisfy state law requirements on 100 percent state-funded contracts, the federal government has no involvement in such contracts (not a federal-aid contract) and no responsibility to oversee the implementation of this Special Provision by the Department on those contracts. DBE participation on 100 percent state-funded contracts will not be credited toward fulfilling the Department's annual overall DBE goal required by the US Department of Transportation to comply with the federal DBE program requirements.

CONTRACTOR ASSURANCE. The Contractor makes the following assurance and agrees to include the assurance in each subcontract that the Contractor signs with a subcontractor:

The Contractor, subrecipient, or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of contracts funded in whole or in part with federal or state funds. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.

OVERALL GOAL SET FOR THE DEPARTMENT. As a requirement of compliance with 49 CFR part 26, the Department has set an overall goal for DBE participation in its federally assisted contracts. That goal applies to all federal-aid funds the Department will expend in its federally assisted contracts for the subject reporting fiscal year. The Department is required to make a good faith effort to achieve the overall goal. The dollar amount paid to all approved DBE companies performing work called for in this contract is eligible to be credited toward fulfillment of the Department's overall goal.

CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined that the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. This determination is based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates that, in the absence of unlawful discrimination, and in an arena of fair and open competition, DBE companies can be expected to perform 4 % of the work. This percentage is set as the DBE participation

goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will only award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set forth in this Special Provision:

- (a) The bidder documents that enough DBE participation has been obtained to meet the goal; or
- (b) The bidder documents that a good faith effort has been made to meet the goal, even though the effort did not succeed in obtaining enough DBE participation to meet the goal.

DBE LOCATOR REFERENCES. Bidders may consult the IL UCP DBE Directory as a reference source for DBE-certified companies. In addition, the Department maintains a letting and item specific DBE locator information system whereby DBE companies can register their interest in providing quotes on particular bid items advertised for letting. Information concerning DBE companies willing to quote work for particular contracts may be obtained by contacting the Department's Bureau of Small Business Enterprises at telephone number (217)785-4611, or by visiting the Department's web site at www.dot.il.gov.

BIDDING PROCEDURES. Compliance with this Special Provision is a material bidding requirement. The failure of the bidder to comply will render the bid not responsive.

- (a) The bidder shall submit a Disadvantaged Business Utilization Plan on Department forms SBE 2025 and 2026 with the bid.
- (b) The Utilization Plan shall indicate that the bidder either has obtained sufficient DBE participation commitments to meet the contract goal or has not obtained enough DBE participation commitments in spite of a good faith effort to meet the goal. The Utilization Plan shall further provide the name, telephone number, and telefax number of a responsible official of the bidder designated for purposes of notification of plan approval or disapproval under the procedures of this Special Provision.
- (c) The Utilization Plan shall include a DBE Participation Commitment Statement, Department form SBE 2025, for each DBE proposed for the performance of work to achieve the contract goal. For bidding purposes, submission of the completed SBE 2025 forms, signed by the DBEs and faxed to the bidder will be acceptable as long as the original is available and provided upon request. All elements of information indicated on the said form shall be provided, including but not limited to the following:
 - (1) The names and addresses of DBE firms that will participate in the contract;
 - (2) A description, including pay item numbers, of the work each DBE will perform;
 - (3) The dollar amount of the participation of each DBE firm participating. The dollar amount of participation for identified work shall specifically state the quantity, unit price, and total subcontract price for the work to be completed by the DBE. If partial

pay items are to be performed by the DBE, indicate the portion of each item, a unit price where appropriate and the subcontract price amount;

- (4) DBE Participation Commitment Statements, form SBE 2025, signed by the bidder and each participating DBE firm documenting the commitment to use the DBE subcontractors whose participation is submitted to meet the contract goal;
- (5) If the bidder is a joint venture comprised of DBE companies and non-DBE companies, the plan must also include a clear identification of the portion of the work to be performed by the DBE partner(s); and,
- (6) If the contract goal is not met, evidence of good faith efforts.

GOOD FAITH EFFORT PROCEDURES. The contract will not be awarded until the Utilization Plan submitted by the apparent successful bidder is approved. All information submitted by the bidder must be complete, accurate and adequately document the good faith efforts of the bidder before the Department will commit to the performance of the contract by the bidder. The Utilization Plan will be approved by the Department if the Utilization Plan commits sufficient commercially useful DBE work performance to meet the contract goal or the bidder submits sufficient documentation of a good faith effort to meet the contract goal pursuant to 49 CFR part 26, Appendix A. The Utilization Plan will not be approved by the Department if the Utilization Plan does not commit sufficient DBE participation to meet the contract goal unless the apparent successful bidder documented in the Utilization Plan that it made a good faith effort to meet the goal. This means that the bidder must show that all necessary and reasonable steps were taken to achieve the contract goal. Necessary and reasonable steps are those which, by their scope, intensity and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not successful. The Department will consider the quality, quantity, and intensity of the kinds of efforts that the bidder has made. Mere *pro forma* efforts, in other words, efforts done as a matter of form, are not good faith efforts; rather, the bidder is expected to have taken genuine efforts that would be reasonably expected of a bidder actively and aggressively trying to obtain DBE participation sufficient to meet the contract goal.

(a) The following is a list of types of action that the Department will consider as part of the evaluation of the bidder's good faith efforts to obtain participation. These listed factors are not intended to be a mandatory checklist and are not intended to be exhaustive. Other factors or efforts brought to the attention of the Department may be relevant in appropriate cases, and will be considered by the Department.

- (1) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBE companies that have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBE companies to respond to the solicitation. The bidder must determine with certainty if the DBE companies are interested by taking appropriate steps to follow up initial solicitations.
- (2) Selecting portions of the work to be performed by DBE companies in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to

facilitate DBE participation, even when the prime Contractor might otherwise prefer to perform these work items with its own forces.

- (3) Providing interested DBE companies with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
 - (4) a. Negotiating in good faith with interested DBE companies. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBE companies that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBE companies to perform the work.
 - b. A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a bidder to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidders are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable.
 - (5) Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.
 - (6) Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
 - (7) Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.
 - (8) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.
- (b) If the Department determines that the apparent successful bidder has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided that it is otherwise eligible for award. If the Department determines that the bidder has failed to meet the requirements of this

Special Provision and that a good faith effort has not been made, the Department will notify the responsible company official designated in the Utilization Plan that the bid is not responsive. The notification shall include a statement of reasons why good faith efforts have not been found.

- (c) The bidder may request administrative reconsideration of a determination adverse to the bidder within the five working days after receipt of the notification date of the determination by delivering the request to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217)785-1524). Deposit of the request in the United States mail on or before the fifth business day shall not be deemed delivery. The determination shall become final if a request is not made and delivered. A request may provide additional written documentation and/or argument concerning the issue of whether an adequate good faith effort was made to meet the contract goal. The request will be forwarded to the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person in order to consider all issues of whether the bidder made a good faith effort to meet the goal. After the review by the Reconsideration Officer, the bidder will be sent a written decision within ten working days after receipt of the request for reconsideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the Reconsideration Officer that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid not responsive.

CALCULATING DBE PARTICIPATION. The Utilization Plan values represent work anticipated to be performed and paid for upon satisfactory completion. The Department is only able to count toward the achievement of the overall goal and the contract goal the value of payments made for the work actually performed by DBE companies. In addition, a DBE must perform a commercially useful function on the contract to be counted. A commercially useful function is generally performed when the DBE is responsible for the work and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. The Department and Contractor are governed by the provisions of 49 CFR part 26.55(c) on questions of commercially useful functions as it affects the work. Specific counting guidelines are provided in 49 CFR part 26.55, the provisions of which govern over the summary contained herein.

- (a) DBE as the Contractor: 100 percent goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE does not count toward the DBE goals.
- (b) DBE as a joint venture Contractor: 100 percent goal credit for that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work performed by the DBE's own forces.
- (c) DBE as a subcontractor: 100 percent goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies, excluding the purchase of materials and supplies or the lease of equipment by the DBE

subcontractor from the prime Contractor or its affiliates. Work that a DBE subcontractor in turn subcontracts to a non-DBE does not count toward the DBE goal.

(d) DBE as a trucker: 100 percent goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed, and insured by the DBE must be used on the contract. Credit will be given for the following:

(1) The DBE may lease trucks from another DBE firm, including an owner-operator who is certified as a DBE. The DBE who leases trucks from another DBE receives credit for the total value of the transportation services the lessee DBE provides on the contract.

(2) The DBE may also lease trucks from a non-DBE firm, including from an owner-operator. The DBE who leases trucks from a non-DBE is entitled to credit only for the fee or commission it receives as a result of the lease arrangement.

(e) DBE as a material supplier:

(1) 60 percent goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.

(2) 100 percent goal credit for the cost of materials or supplies obtained from a DBE manufacturer.

(3) 100 percent credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a regular dealer or manufacturer.

CONTRACT COMPLIANCE. Compliance with this Special Provision is an essential part of the contract. The Department is prohibited by federal regulations from crediting the participation of a DBE included in the Utilization Plan toward either the contract goal or the Department's overall goal until the amount to be applied toward the goals has been paid to the DBE. The following administrative procedures and remedies govern the compliance by the Contractor with the contractual obligations established by the Utilization Plan. After approval of the Utilization Plan and award of the contract, the Utilization Plan and individual DBE Participation Statements become part of the contract. If the Contractor did not succeed in obtaining enough DBE participation to achieve the advertised contract goal, and the Utilization Plan was approved and contract awarded based upon a determination of good faith, the total dollar value of DBE work calculated in the approved Utilization Plan as a percentage of the awarded contract value shall become the amended contract goal.

(a) No amendment to the Utilization Plan may be made without prior written approval from the Department's Bureau of Small Business Enterprises. All requests for amendment to the Utilization Plan shall be submitted to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764. Telephone number (217) 785-4611. Telefax number (217) 785-1524.

- (b) The Contractor must notify and obtain written approval from the Department's Bureau of Small Business Enterprises prior to replacing a DBE or making any change in the participation of a DBE. Approval for replacement will be granted only if it is demonstrated that the DBE is unable or unwilling to perform. The Contractor must make every good faith effort to find another certified DBE subcontractor to substitute for the original DBE. The good faith efforts shall be directed at finding another DBE to perform at least the same amount of work under the contract as the original DBE, to the extent needed to meet the contract goal.
- (c) Any deviation from the DBE condition-of-award or contract specifications must be approved, in writing, by the Department. The Contractor shall notify affected DBEs in writing of any changes in the scope of work which result in a reduction in the dollar amount condition-of-award to the contract.
- (d) In addition to the above requirements for reductions in the condition of award, additional requirements apply to the two cases of Contractor-initiated work substitution proposals. Where the contract allows alternate work methods which serve to delete or create underruns in condition of award DBE work, and the Contractor selects that alternate method or, where the Contractor proposes a substitute work method or material that serves to diminish or delete work committed to a DBE and replace it with other work, then the Contractor must demonstrate one of the following:
 - (1) That the replacement work will be performed by the same DBE (as long as the DBE is certified in the respective item of work) in a modification of the condition of award; or
 - (2) That the DBE is aware that its work will be deleted or will experience underruns and has agreed in writing to the change. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so; or
 - (3) That the DBE is not capable of performing the replacement work or has declined to perform the work at a reasonably competitive price. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so.
- (e) Where the revision includes work committed to a new DBE subcontractor, not previously involved in the project, then a Request for Approval of Subcontractor, Department form BC 260A, must be signed and submitted.
- (f) If the commitment of work is in the form of additional tasks assigned to an existing subcontract, then a new Request for Approval of Subcontractor shall not be required. However, the Contractor must document efforts to assure that the existing DBE subcontractor is capable of performing the additional work and has agreed in writing to the change.
- (g) All work indicated for performance by an approved DBE shall be performed, managed, and supervised by the DBE executing the Participation Statement. The Contractor shall not terminate for convenience a DBE listed in the Utilization Plan and then perform the

work of the terminated DBE with its own forces, those of an affiliate or those of another subcontractor, whether DBE or not, without first obtaining the written consent of the Bureau of Small Business Enterprises to amend the Utilization Plan. The Contractor shall notify the Bureau of Small Business Enterprises of any termination for reasons other than convenience, and shall obtain approval for inclusion of the substitute DBE in the Utilization Plan. If good faith efforts following a termination of a DBE for cause are not successful, the Contractor shall contact the Bureau of Small Business Enterprises and provide a full accounting of the efforts undertaken to obtain substitute DBE participation. The Bureau of Small Business Enterprises will evaluate the good faith efforts in light of all circumstances surrounding the performance status of the contract, and determine whether the contract goal should be amended.

- (h) The Contractor shall maintain a record of payments for work performed to the DBE participants. The records shall be made available to the Department for inspection upon request. After the performance of the final item of work or delivery of material by a DBE and final payment therefore to the DBE by the Contractor, but not later than thirty calendar days after payment has been made by the Department to the Contractor for such work or material, the Contractor shall submit a DBE Payment Agreement on Department form SBE 2115 to the Regional Engineer. If full and final payment has not been made to the DBE, the DBE Payment Agreement shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or if the Contractor believes that the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Utilization Plan and after good faith efforts are reviewed, the Department may deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages. The Contractor may request an administrative reconsideration of any amount deducted as damages pursuant to subsection (j) of this part.
- (i) The Department reserves the right to withhold payment to the Contractor to enforce the provisions of this Special Provision. Final payment shall not be made on the contract until such time as the Contractor submits sufficient documentation demonstrating achievement of the goal in accordance with this Special Provision or after liquidated damages have been determined and collected.
- (j) Notwithstanding any other provision of the contract, including but not limited to Article 109.09 of the Standard Specifications, the Contractor may request administrative reconsideration of a decision to deduct the amount of the goal not achieved as liquidated damages. A request to reconsider shall be delivered to the Contract Compliance Section and shall be handled and considered in the same manner as set forth in paragraph (c) of "Good Faith Effort Procedures" of this Special Provision, except a final decision that a good faith effort was not made during contract performance to achieve the goal agreed to in the Utilization Plan shall be the final administrative decision of the Department.

DOWEL BARS (BDE)

Effective: April 1, 2007

Revised: January 1, 2008

Revise the fifth and sixth sentences of Article 1006.11(b) of the Standard Specifications to read:

“The bars shall be epoxy coated according to AASHTO M 284, except the thickness of the epoxy shall be 7 to 12 mils (0.18 to 0.30 mm) and patching of the ends will not be required. The epoxy coating applicator shall be certified according to the current Bureau of Materials and Physical Research Policy Memorandum, “Epoxy Coating Plant Certification Procedure”. The Department will maintain an approved list.”

80178

EQUIPMENT RENTAL RATES (BDE)

Effective: August 2, 2007

Revised: January 2, 2008

Replace the second and third paragraphs of Article 105.07(b)(4)a. of the Standard Specifications with the following:

“Equipment idled which cannot be used on other work, and which is authorized to standby on the project site by the Engineer, will be paid for according to Article 109.04(b)(4).”

Replace Article 109.04(b)(4) of the Standard Specifications with the following:

“(4) Equipment. Equipment used for extra work shall be authorized by the Engineer. The equipment shall be specifically described, be of suitable size and capacity for the work to be performed, and be in good operating condition. For such equipment, the Contractor will be paid as follows.

- a. Contractor Owned Equipment. Contractor owned equipment will be paid for by the hour using the applicable FHWA hourly rate from the “Equipment Watch Rental Rate Blue Book” (Blue Book) in effect when the force account work begins. The FHWA hourly rate is calculated as follows.

FHWA hourly rate = (monthly rate/176) x (model year adj.) x (Illinois adj.) + EOC

Where: EOC = Estimated Operating Costs per hour (from the Blue Book)

The time allowed will be the actual time the equipment is operating on the extra work. For the time required to move the equipment to and from the site of the extra work and any authorized idle (standby) time, payment will be made at the following hourly rate: 0.5 x (FHWA hourly rate - EOC).

All time allowed shall fall within the working hours authorized for the extra work.

The rates above include the cost of fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs, overhaul and maintenance of any kind, depreciation, storage, overhead, profits, insurance, and all incidentals. The rates do not include labor.

The Contractor shall submit to the Engineer sufficient information for each piece of equipment and its attachments to enable the Engineer to determine the proper equipment category. If a rate is not established in the Blue Book for a particular piece of equipment, the Engineer will establish a rate for that piece of equipment that is consistent with its cost and use in the industry.

- b. Rented Equipment. Whenever it is necessary for the Contractor to rent equipment to perform extra work, the rental and transportation costs of the equipment plus five percent for overhead will be paid. In no case shall the rental rates exceed those of established distributors or equipment rental agencies.

All prices shall be agreed to in writing before the equipment is used.”

80189

FLAGGER AT SIDE ROADS AND ENTRANCES (BDE)

Effective: April 1, 2009

Revise the second paragraph of Article 701.13(a) of the Standard Specifications to read:

“The Engineer will determine when a side road or entrance shall be closed to traffic. A flagger will be required at each side road or entrance remaining open to traffic within the operation where two-way traffic is maintained on one lane of pavement. The flagger shall be positioned as shown on the plans or as directed by the Engineer.”

Revise the first and second paragraph of Article 701.20(i) of the Standard Specifications to read:

“Signs, barricades, or other traffic control devices required by the Engineer over and above those specified will be paid for according to Article 109.04. All flaggers required at side roads and entrances remaining open to traffic including those that are shown on the Highway Standards and/or additional barricades required by the Engineer to close side roads and entrances will be paid for according to Article 109.04.”

80228

HOT-MIX ASPHALT – ANTI-STRIPPING ADDITIVE (BDE)

Effective: November 1, 2009

Revise the first and second paragraphs of Article 1030.04(c) of the Standard Specifications to read:

“(c) Determination of Need for Anti-Stripping Additive. The mixture designer shall determine if an additive is needed in the mix to prevent stripping. The determination will be made on the basis of tests performed according to Illinois Modified AASHTO T 283. To be considered acceptable by the Department as a mixture not susceptible to stripping, the conditioned to unconditioned split tensile strength ratio (TSR) shall be equal to or greater than 0.85 for 6 in. (150 mm) specimens. Mixtures, either with or without an additive, with TSRs less than 0.85 for 6 in. (150 mm) specimens will be considered unacceptable. Also, the conditioned tensile strength for mixtures containing an anti-strip additive shall not be lower than the original conditioned tensile strength determined for the same mixture without the anti-strip additive.

If it is determined that an additive is required, the additive may be hydrated lime, slaked quicklime, or a liquid additive, at the Contractor's option.”

80245

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

Effective: January 1, 2010

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 2 in. (50 mm), from each pavement edge. (i.e. for a 4 in. (100 mm) lift the near edge of the density gauge or core barrel shall be within 4 in. (100 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-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 – DROP-OFFS (BDE)

Effective: January 1, 2010

Revise the third paragraph of Article 701.07 of the Standard Specifications to read:

“At locations where construction operations result in a differential in elevation exceeding 3 in. (75 mm) between the edge of pavement or edge of shoulder within 3 ft (900 mm) of the edge of the pavement and the earth or aggregate shoulders, Type I or II barricades or vertical panels shall be placed at 100 ft (30 m) centers on roadways where the posted speed limit is 45 mph or greater and at 50 ft (15 m) centers on roadways where the posted speed limit is less than 45 mph.”

80250

HOT-MIX ASPHALT – PLANT TEST FREQUENCY (BDE)

Effective: April 1, 2008

Revised: January 1, 2010

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

"Parameter	Frequency of Tests	Frequency of Tests	Test Method See Manual of Test Procedures for Materials
	High ESAL Mixture Low ESAL Mixture	All Other Mixtures	
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) Note 1.	1 washed ignition oven test on the mix per half day of production Note 4.	1 washed ignition oven test on the mix per day of production Note 4.	Illinois Procedure
Asphalt Binder Content by Ignition Oven Note 2.	1 per half day of production	1 per day	Illinois-Modified AASHTO T 308
VMA Note 3.	Day's production ≥ 1200 tons: 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)	N/A	Illinois Modified AASHTO R 35
Air Voids Bulk Specific Gravity of Gyrotory Sample	Day's production ≥ 1200 tons: 1 per half day of production	1 per day	Illinois-Modified AASHTO T 312

"Parameter	Frequency of Tests	Frequency of Tests All Other Mixtures	Test Method See Manual of Test Procedures for Materials
	High ESAL Mixture Low ESAL Mixture		
	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	1 per day	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 No. 8 (2.36 mm) and No. 30 (600 μm) sieves are not required for All Other Mixtures.

Note 2. 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 3. 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 4. The Engineer reserves the right to require additional hot bin gradations for batch plants if control problems are evident."

80201

HOT-MIX ASPHALT – QC/QA ACCEPTANCE CRITERIA (BDE)

Effective: January 1, 2010

Revise Article 1030.05(f)(3) of the Standard Specifications to read:

“(3) Department assurance tests for voids, field VMA, and density.”

80251

HOT-MIX ASPHALT – TRANSPORTATION (BDE)

Effective: April 1, 2008

Revise Article 1030.08 of the Standard Specifications to read:

“1030.08 Transportation. Vehicles used in transporting HMA shall have clean and tight beds. The beds shall be sprayed with asphalt release agents from the Department’s approved list. In lieu of a release agent, the Contractor may use a light spray of water with a light scatter of manufactured sand (FA 20 or FA 21) evenly distributed over the bed of the vehicle. After spraying, the bed of the vehicle shall be in a completely raised position and it shall remain in this position until all excess asphalt release agent or water has been drained.

When the air temperature is below 60 °F (15 °C), the bed, including the end, endgate, sides and bottom shall be insulated with fiberboard, plywood or other approved insulating material and shall have a thickness of not less than 3/4 in (20 mm). When the insulation is placed inside the bed, the insulation shall be covered with sheet steel approved by the Engineer. Each vehicle shall be equipped with a cover of canvas or other suitable material meeting the approval of the Engineer which shall be used if any one of the following conditions is present.

- (a) Ambient air temperature is below 60 °F (15 °C).
- (b) The weather is inclement.
- (c) The temperature of the HMA immediately behind the paver screed is below 250 °F (120 °C).

The cover shall extend down over the sides and ends of the bed for a distance of approximately 12 in. (300 mm) and shall be fastened securely. The covering shall be rolled back before the load is dumped into the finishing machine.”

80202

IMPROVED SUBGRADE (BDE)

Effective: January 1, 2010

Revise the second paragraph of Article 302.04 of the Standard Specifications to read:

“The quantity of modified soil constructed shall be limited to that which can be covered by the full thickness of portland cement concrete pavement or HMA binder during the same construction season.”

Revise the first paragraph of Article 302.07 of the Standard Specifications to read:

“**302.07 Application of Modifier.** The modifier shall be applied uniformly on the soil. The application of modifier shall be limited to that amount which can be mixed with the soil within the same working day.”

Revise the first paragraph of Article 302.08 of the Standard Specifications to read:

“**302.08 Mixing.** The modifier, soil, and water shall be thoroughly mixed. Mixing shall continue until a homogenous layer of the required thickness has been obtained and a minimum of 75 percent of the mixture is smaller than 1 in. (25 mm). The moisture content of the modified soil shall be above optimum moisture content with a maximum of three percent above optimum.”

Revise Article 302.10 of the Standard Specifications to read:

“**302.10 Finishing and Curing.** When multiple lifts are used to construct the modified soil layer, the top lift shall be a minimum of 6 in. (150 mm) thick when compacted.

Construction of pipe underdrains shall follow the requirements of Article 407.07. The surface of the modified soil shall be kept drained according to Article 301.09 and shall maintain moisture content not exceeding three percent above optimum prior to pavement construction.

When compaction of the modified soil is nearing completion, the surface shall be shaped to the required lines, grades, and cross section shown on the plans. For HMA base course and pavement (full-depth) and portland cement concrete base course and pavement, the surface of the modified soil shall be brought to true shape and correct elevation according to Article 301.07, except well compacted earth shall not be used to fill low areas.

The modified soil shall be cured for a minimum of 24 hours. The ambient air temperature shall be above 45 °F (7 °C) during curing.

During the curing period, the moisture content of the modified soil shall be maintained at optimum by sprinkling with water, use of plastic sheeting, or applying bituminous materials according to Article 312.14. During this period, no equipment or traffic will be permitted on the completed work beyond that required for maintenance of curing.

Equipment of such weight, or used in such a way as to cause a rut depth of 1/2 in. (13 mm) or more in the finished modified soil, shall be removed, or the rutting otherwise prevented, as directed by the Engineer."

Revise the first paragraph of Article 302.11 of the Standard Specifications to read:

"302.11 Subgrade Stability. Following curing, the Engineer will determine the stability of the modified soil in terms of the immediate bearing value (IBV), according to Illinois Test Procedure 501. The IBV shall be a minimum of 10.0 measured within 10 calendar days prior to pavement construction."

Revise the second paragraph of Article 310.04 of the Standard Specifications to read:

"The quantity of lime stabilized soil mixture constructed shall be limited to that which can be covered by the full thickness of portland cement concrete pavement or HMA binder during the same construction season."

Revise the first paragraph of Article 310.08(a) of the Standard Specifications to read:

"(a) Initial Mixing. The lime, soil, and water shall be thoroughly mixed until a uniform mixture throughout the required depth and width is obtained. All clods and lumps shall be reduced to a maximum size of 2 in. (50 mm). The moisture content of the stabilized soil shall be above optimum moisture content with a maximum of three percent above optimum."

Insert the following paragraph after the first paragraph of Article 310.10 of the Standard Specifications:

"Construction of pipe underdrains shall follow the requirements of Article 407.07. The surface of the lime stabilized soil shall be kept drained according to Article 301.09 and shall maintain a maximum moisture content of three percent above optimum prior to pavement construction."

Revise the first paragraph of Article 310.11 of the Standard Specifications to read:

"310.11 Subgrade Stability. Following curing, the Engineer will determine the stability of the lime stabilized soil mixture in terms of the immediate bearing value (IBV) according to Illinois Test Procedure 501. The IBV shall be a minimum of 23.0 measured within 10 calendar days prior to pavement construction."

Revise the second paragraph of Article 311.05 of the Standard Specifications to read:

"The granular material shall be placed and compacted at least three days prior to the placement of pavement or base course. Except where required for temporary access, the quantity of subbase granular material Types A or B to be placed shall be limited to that which can be covered by the full thickness of PCC pavement or HMA binder during the same construction season."

LIQUIDATED DAMAGES (BDE)

Effective: April 1, 2009

Revise the table in Article 108.09 of the Standard Specifications to read:

"Schedule of Deductions for Each Day of Overrun in Contract Time			
Original Contract Amount		Daily Charges	
From More Than	To and Including	Calendar Day	Work Day
\$ 0	\$ 100,000	\$ 375	\$ 500
100,000	500,000	625	875
500,000	1,000,000	1,025	1,425
1,000,000	3,000,000	1,125	1,550
3,000,000	5,000,000	1,425	1,950
5,000,000	10,000,000	1,700	2,350
10,000,000	And over	3,325	4,650"

80230

MONTHLY EMPLOYMENT REPORT (BDE)

Effective: April 1, 2009

In addition to any other reporting required by the contract, the Contractor shall provide to the Engineer an employment summary for all employees working on the contract from the contract execution date to the last full pay period each month for the duration of the contract. The report may include but is not limited to:

- a) A listing of the total number of employees.
- b) The employee job classification.
- c) The total hours worked and payroll for each employee.

The report shall be completed by the Contractor and each subcontractor. Employee hours worked from home office or other off-site office hours worked related directly to this contract shall be included. Engineering consulting firms performing construction layout and material testing for the Contractor shall also be included.

Hours worked for material suppliers, services provided by purchase orders, Department employees or consulting firms performing inspection or testing for the Department shall not be included in the report.

The report shall contain all hours worked under the contract from the start of the month to the last full pay period each month and shall be submitted no later than 10 business days after the end of each month.

The report shall be submitted electronically in a format determined by the Engineer. See attachment for potential reporting format.

Any costs associated with complying with this provision shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed.

80238

Attachment

MONTHLY PRIME AND SUBCONTRACTOR EMPLOYMENT REPORT AMERICAN RECOVERY AND REINVESTMENT ACT			
1. First day of reporting period (mm/dd/yyyy):	2. Last day of reporting period (mm/dd/yyyy):	3. Notice to Proceed Date (mm/dd/yyyy)	
4. NAME AND ADDRESS OF FIRM		5. FEDERAL-AID PROJECT NUMBER	
		6. State Project Number or ID	
7. CONTRACTING AGENCY		8. STATE (or Federal Lands Region)	
Employment Data			
Direct, On-Project Jobs	TOTAL EMPLOYEES	TOTAL HOURS	TOTAL PAYROLL
CONSTRUCTION	NEW HIRES		
	EXISTING EMPLOYEES		
NON-CONSTRUCTION	NEW HIRES		
	EXISTING EMPLOYEES		
TOTAL			
10. PREPARED BY: <i>(Signature and Title)</i>			DATE
11. REVIEWED BY: <i>(Signature and Title of State Highway Official)</i>			DATE

This form is issued in association with the American Recovery and Reinvestment Act of 2009

MULTILANE PAVEMENT PATCHING (BDE)

Effective: November 1, 2002

Pavement broken and holes opened for patching shall be completed prior to weekend or holiday periods. Should delays of any type or for any reason prevent the completion of the work, temporary patches shall be constructed. Material able to support the average daily traffic and meeting the approval of the Engineer shall be used for the temporary patches. The cost of furnishing, placing, maintaining, removing and disposing of the temporary work, including traffic control, shall be the responsibility of the Contractor.

80082

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM / EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION (BDE)

Effective: April 1, 2007

Revised: November 1, 2009

Revise Article 105.03(a) of the Standard Specifications to read:

“(a) National Pollutant Discharge Elimination System (NPDES) / Erosion and Sediment Control Deficiency Deduction. When the Engineer is notified or determines an erosion and/or sediment control deficiency(s) exists, or the Contractor’s activities represents a violation of the Department’s NPDES permits, the Engineer will notify and direct the Contractor to correct the deficiency within a specified time. The specified time, which begins upon notification to the Contractor, will be from 1/2 hour to 1 week based on the urgency of the situation and the nature of the work effort required. The Engineer will be the sole judge.

A deficiency may be any lack of repair, maintenance, or implementation of erosion and/or sediment control devices included in the contract, or any failure to comply with the conditions of the Department’s NPDES permits. A deficiency may also be applied to situations where corrective action is not an option such as the failure to participate in a jobsite inspection of the project, failure to install required measures prior to initiating earth moving operations, disregard of concrete washout requirements, or other disregard of the NPDES permit.

If the Contractor fails to correct a deficiency within the specified time, a daily monetary deduction will be imposed for each calendar day or portion of a calendar day until the deficiency is corrected to the satisfaction of the Engineer. The calendar day(s) will begin with notification to the Contractor and end with the Engineer’s acceptance of the correction. The base value of the daily monetary deduction is \$1000.00 and will be applied to each location for which a deficiency exists. The value of the deficiency deduction assessed for each infraction will be determined by multiplying the base value by a Gravity Adjustment Factor provided in Table A. Except for failure to participate in a required jobsite inspection of the project prior to initiating earthmoving operations which will be based on the total acreage of planned disturbance at the following multipliers: <5 Acres: 1; 5-10 Acres: 2; >10-25 Acres: 3; >25 Acres: 5. For those deficiencies where corrective action was not an option, the monetary deduction will be immediate and will be valued at one calendar day multiplied by a Gravity Adjustment Factor.

Table A Deficiency Deduction Gravity Adjustment Factors				
Types of Violations	Soil Disturbed and Not Permanently Stabilized At Time of Violation			
	< 5 Acres	5 - 10 Acres	>10 - 25 Acres	> 25 Acres
Failure to Install or Properly Maintain BMP	0.1 - 0.5	0.2 - 1.0	0.5 - 2.5	1.0 - 5
Careless Destruction of BMP	0.2 - 1	0.5 - 2.5	1.0 - 5.	1.0 - 5
Intrusion into Protected Resource	1.0 - 5	1.0 - 5	2.0 - 10	2.0 - 10
Failure to properly manage Chemicals, Concrete Washouts or Residuals, Litter or other Wastes	0.2 - 1	0.2 - 1	0.5 - 2.5	1.0 - 5
Improper Vehicle and Equipment Maintenance, Fueling or Cleaning	0.1 - 0.5	0.2 - 1	0.2 - 1	0.5 - 2.5
Failure to Provide or Update Written or Graphic Plans Required by SWPPP	0.2 - 1	0.5 - 2.5	1.0 - 5	1.0 - 5
Failure to comply with Other Provisions of the NPDES Permit	0.1 - 0.5	0.2 - 1	0.2 - 1	0.5 - 2.5"

80180

PAVEMENT MARKING REMOVAL (BDE)

Effective: April 1, 2009

Add the following to the end of the first paragraph of Article 783.03(a) of the Standard Specifications:

“The use of grinders will not be allowed on new surface courses.”

80231

PAVEMENT PATCHING (BDE)

Effective: January 1, 2010

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

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

80254

PAYMENTS TO SUBCONTRACTORS (BDE)

Effective: June 1, 2000

Revised: January 1, 2006

Federal regulations found at 49 CFR §26.29 mandate the Department to establish a contract clause to require Contractors to pay subcontractors for satisfactory performance of their subcontracts and to set the time for such payments.

State law also addresses the timing of payments to be made to subcontractors and material suppliers. Section 7 of the Prompt Payment Act, 30 ILCS 540/7, requires that when a Contractor receives any payment from the Department, the Contractor shall make corresponding, proportional payments to each subcontractor and material supplier performing work or supplying material within 15 calendar days after receipt of the Department payment. Section 7 of the Act further provides that interest in the amount of two percent per month, in addition to the payment due, shall be paid to any subcontractor or material supplier by the Contractor if the payment required by the Act is withheld or delayed without reasonable cause. The Act also provides that the time for payment required and the calculation of any interest due applies to transactions between subcontractors and lower-tier subcontractors and material suppliers throughout the contracting chain.

This Special Provision establishes the required federal contract clause, and adopts the 15 calendar day requirement of the State Prompt Payment Act for purposes of compliance with the federal regulation regarding payments to subcontractors. This contract is subject to the following payment obligations.

When progress payments are made to the Contractor according to Article 109.07 of the Standard Specifications, the Contractor shall make a corresponding payment to each subcontractor and material supplier in proportion to the work satisfactorily completed by each subcontractor and for the material supplied to perform any work of the contract. The proportionate amount of partial payment due to each subcontractor and material supplier throughout the contracting chain shall be determined by the quantities measured or otherwise determined as eligible for payment by the Department and included in the progress payment to the Contractor. Subcontractors and material suppliers shall be paid by the Contractor within 15 calendar days after the receipt of payment from the Department. The Contractor shall not hold retainage from the subcontractors. These obligations shall also apply to any payments made by subcontractors and material suppliers to their subcontractors and material suppliers; and to all payments made to lower tier subcontractors and material suppliers throughout the contracting chain. Any payment or portion of a payment subject to this provision may only be withheld from the subcontractor or material supplier to whom it is due for reasonable cause.

This Special Provision does not create any rights in favor of any subcontractor or material supplier against the State or authorize any cause of action against the State on account of any payment, nonpayment, delayed payment, or interest claimed by application of the State Prompt Payment Act. The Department will not approve any delay or postponement of the 15 day requirement except for reasonable cause shown after notice and hearing pursuant to Section

| 7(b) of the State Prompt Payment Act. State law creates other and additional remedies available to any subcontractor or material supplier, regardless of tier, who has not been paid for work properly performed or material furnished. These remedies are a lien against public funds set forth in Section 23(c) of the Mechanics Lien Act, 770 ILCS 60/23(c), and a recovery on the Contractor's payment bond according to the Public Construction Bond Act, 30 ILCS 550.

80022

PERSONAL PROTECTIVE EQUIPMENT (BDE)

Effective: November 1, 2008

Revise the first sentence of Article 701.12 of the Standard Specifications to read:

“All personnel on foot, excluding flaggers, within the highway right-of-way shall wear a fluorescent orange, fluorescent yellow/green, or a combination of fluorescent orange and fluorescent yellow/green vest meeting the requirements of ANSI/ISEA 107-2004 for Conspicuity Class 2 garments.”

80209

RECLAIMED ASPHALT PAVEMENT (RAP) (BDE)

Effective: January 1, 2007

Revised: January 1, 2010

In Article 1030.02(g), delete the last sentence of the first paragraph in (Note 2).

Revise Section 1031 of the Standard Specifications to read:

"SECTION 1031. RECLAIMED ASPHALT PAVEMENT

1031.01 Description. Reclaimed asphalt pavement (RAP) is reclaimed asphalt pavement resulting from cold milling or crushing of an existing dense graded hot-mix asphalt (HMA) pavement. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.

1031.02 Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. No additional RAP shall be added to the pile after the pile has been sealed. Stockpiles shall be sufficiently separated to prevent intermingling at the base. Stockpiles shall be identified by signs indicating the type as listed below (i.e. "Homogeneous Surface").

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

- (a) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, Superpave (High ESAL), HMA (High 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 fractionated prior to testing by screening into a minimum of two size fractions with the separation occurring on or between the #4 (4.75 mm) and 1/2 in. (12.5 mm) sieves. Agglomerations shall be minimized such that 100 percent of the RAP in the coarse fraction shall pass one sieve size larger than the maximum sieve size specified for the mix the RAP will be used in.
- (b) Homogeneous. Homogeneous RAP stockpiles shall consist of RAP from Class I, Superpave (High ESAL), HMA (High ESAL), or equivalent mixtures and represent: 1) the same aggregate quality, but shall be at least C quality; 2) the same type of crushed aggregate (either crushed natural aggregate, ACBF slag, or steel slag); 3) similar gradation; and 4) similar asphalt binder content. If approved by the Engineer, combined single pass surface/binder millings may be considered "homogenous" with a quality rating dictated by the lowest coarse aggregate quality present in the mixture.
- (c) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, Superpave (High ESAL), HMA (High 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 prior to testing by crushing to where all RAP shall pass the 5/8 in. (16 mm) or smaller screen. Conglomerate RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.

(d) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from Class I, Superpave (High or Low ESAL), HMA (High or Low ESAL), or equivalent mixtures. The coarse aggregate in this RAP may be crushed or round but shall be at least D quality. This RAP may have an inconsistent gradation and/or asphalt binder content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.

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

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

1031.03 Testing. When used in HMA, the RAP/FRAP shall be sampled and tested either during or after 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).

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 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.

Evaluation of Test Results. All of the extraction results shall be compiled and averaged for asphalt binder content and gradation and, when applicable G_{mm} . Individual extraction test results, when compared to the averages, will be accepted if within the tolerances listed below.

Parameter	FRAP/Homogeneous /Conglomerate	Conglomerate "D" Quality
1 in. (25 mm)		± 5 %

1/2 in. (12.5 mm)	± 8 %	± 15 %
No. 4 (4.75 mm)	± 6 %	± 13 %
No. 8 (2.36 mm)	± 5 %	
No. 16 (1.18 mm)		± 15 %
No. 30 (600 μm)	± 5 %	
No. 200 (75 μm)	± 2.0 %	± 4.0 %
Asphalt Binder	± 0.4 % ^{1/}	± 0.5 %
G _{mm}	± 0.03	

1/ The tolerance for FRAP shall be ± 0.3 %.

If more than 20 percent of the individual sieves are out of the gradation tolerances, or if more than 20 percent of the asphalt binder content test results fall outside the appropriate tolerances, the RAP/FRAP shall not be used in HMA unless the RAP/FRAP representing the failing tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

With the approval of the Engineer, the ignition oven may be substituted for extractions according to the Illinois Test Procedure, "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)".

1031.04 Quality Designation of Aggregate in RAP/FRAP.

(a) 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 (High ESAL)/HMA (High ESAL), or HMA (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.
- (2) RAP from Superpave (Low ESAL)/HMA (Low ESAL) IL-19.0L binder mixture is designated as Class D quality coarse aggregate.
- (3) RAP from Class I, Superpave (High ESAL), or 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) The aggregate quality of FRAP shall be determined as follows.

Fractionated stockpiles containing plus #4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5000 tons (4500 metric tons). The Contractor shall obtain a

representative sample witnessed by the Engineer. The sample shall be a minimum of 50 lb (25 kg). The sample shall be extracted according to Illinois Modified AASHTO T 164 by a consultant prequalified by the Department for the specified testing. The consultant shall submit the test results along with the recovered aggregate to the District Office. The cost for this testing shall be paid by the Contractor. The District will forward the sample to the BMPR Aggregate Lab for MicroDeval Testing, according to Illinois Modified AASHTO T 327. A maximum loss of 15.0 percent will be applied for all HMA applications.”

1031.05 Use of RAP/FRAP in HMA. The use of RAP/FRAP shall be a Contractor’s option when constructing HMA in all contracts. The use of RAP/FRAP in HMA shall be as follows.

- (a) Coarse Aggregate Size. The coarse aggregate in all RAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.
- (b) Steel Slag Stockpiles. RAP 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) surface mixtures only.
- (c) Use in HMA Surface Mixtures (High and Low ESAL). RAP/FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall be FRAP or homogeneous in which the coarse aggregate is Class B quality or better.
- (d) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. RAP/FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP, homogeneous, or conglomerate, in which the coarse aggregate is Class C quality or better.
- (e) Use in Shoulders and Subbase. RAP/FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, homogeneous, conglomerate, or conglomerate DQ.
- (f) When the Contractor chooses the RAP option, the percentage of RAP shall not exceed the amounts indicated in the table below for a given N Design.

Max RAP Percentage

HMA Mixtures ^{1/, 3/}	Maximum % RAP		
	Binder/Leveling Binder	Surface	Polymer Modified
Ndesign 30	30	30	10
50	25	15	10
70	15 / 25 ^{2/}	10 / 15 ^{2/}	10
90	10	10	10
105	10	10	10

- 1/ For HMA shoulder and stabilized subbase (HMA) N-30, the amount of RAP shall not exceed 50% of the mixture.
- 2/ Value of Max % RAP if homogeneous RAP stockpile of IL-9.5 RAP is utilized.
- 3/ When RAP exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent RAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28). If warm mix asphalt (WMA) technology is utilized, and production temperatures do not exceed 275°F (135 °C) the grades shall be reduced as follows:

Overlays:

When WMA contains between 20 and 30 percent RAP the high temperature shall be reduced by one grade (i.e. 25 percent RAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-22). When WMA contains 30 percent or more RAP the high and low temperature grades shall each be reduced by one grade (i.e. 35 percent RAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

Full Depth:

When WMA contains between 20 and 30 percent RAP, the low temperature shall be reduced by one grade (i.e. 25 percent RAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG64-28). When the WMA contains 30 percent or more RAP the high and low temperature grades shall each be reduced by one grade (i.e. 35 percent RAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

- (g) When the Contractor chooses the FRAP option, the percentage of FRAP shall not exceed the amounts indicated in the table below for a given N Design.

Max FRAP Percentage

HMA Mixtures ^{1/, 2/}	Maximum % FRAP			
	Ndesign	Binder/Leveling Binder	Surface	Polymer Modified
	30	35	35	10
	50	30	25	10
	70	25	20	10
	90	20	15	10
	105	10	10	10

- 1/ For HMA shoulder and stabilized subbase (HMA) N30, the amount of FRAP shall not exceed 50 percent of the mixture.

- 2/ When FRAP exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent FRAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28). If warm mix asphalt (WMA) technology is utilized, and production temperatures do not exceed 275°F (135 °C) the grades shall be reduced as follows:

Overlays:

When WMA contains between 20 and 30 percent FRAP the high temperature shall be reduced by one grade (i.e. 25 percent FRAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-22). When WMA contains 30 percent or more FRAP the high and low temperature grades shall each be reduced by one grade (i.e. 35 percent FRAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

Full Depth:

When WMA contains between 20 and 30 percent FRAP, the low temperature shall be reduced by one grade (i.e. 25 percent FRAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG64-28). When the WMA contains 30 percent or more FRAP the high and low temperature grades shall each be reduced by one grade (i.e. 35 percent FRAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

1031.06 HMA Mix Designs. At the Contractor's option, HMA mixtures may be constructed utilizing RAP/FRAP material meeting the above detailed requirements.

RAP/FRAP designs shall be submitted for volumetric verification. If additional RAP/FRAP stockpiles are tested and found that no more than 20 percent of the results, as defined under "Testing" herein, are outside of the control tolerances set for the original RAP/FRAP stockpile and HMA mix design, and meets all of the requirements herein, the additional RAP/FRAP stockpiles may be used in the original mix design at the percent previously verified.

1031.07 HMA Production. The coarse aggregate in all RAP used shall be equal to or less than the nominal maximum size requirement for the HMA mixture being produced.

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

If the RAP/FRAP control tolerances or QC/QA test results require corrective action, the Contractor shall cease production of the mixture containing RAP/FRAP and either switch to the virgin aggregate design or submit a new RAP/FRAP design.

HMA plants utilizing RAP/FRAP shall be capable of automatically recording and printing the following information.

(a) Dryer Drum Plants.

- (1) Date, month, year, and time to the nearest minute for each print.
- (2) HMA mix number assigned by the Department.
- (3) Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- (4) Accumulated dry weight of RAP/FRAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- (5) Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.
- (6) Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
- (7) Residual asphalt binder in the RAP/FRAP material as a percent of the total mix to the nearest 0.1 percent.
- (8) Aggregate and RAP/FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAP/FRAP are printed in wet condition.)

(b) Batch Plants.

- (1) Date, month, year, and time to the nearest minute for each print.
- (2) HMA mix number assigned by the Department.
- (3) Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).
- (4) Mineral filler weight to the nearest pound (kilogram).
- (5) RAP/FRAP weight to the nearest pound (kilogram).
- (6) Virgin asphalt binder weight to the nearest pound (kilogram).
- (7) Residual asphalt binder in the RAP/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.

1031.08 RAP in Aggregate Surface Course and Aggregate Shoulders. The use of RAP 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.
- (b) Gradation. One hundred percent of the RAP material shall pass the 1 1/2 in. (37.5 mm) sieve. The RAP material shall be reasonably well graded from coarse to fine. RAP material that is gap-graded or single sized will not be accepted."

80172

REFLECTIVE SHEETING ON CHANNELIZING DEVICES (BDE)

Effective: April 1, 2007
 Revised: November 1, 2008

Revise the seventh paragraph of Article 1106.02 of the Standard Specifications to read:

“At the time of manufacturing, the retroreflective prismatic sheeting used on channelizing devices shall meet or exceed the initial minimum coefficient of retroreflection as specified in the following table. Measurements shall be conducted according to ASTM E 810, without averaging. Sheeting used on cones, drums and flexible delineators shall be reboundable as tested according to ASTM D 4956. Prestriped sheeting for rigid substrates on barricades shall be white and orange. The sheeting shall be uniform in color and devoid of streaks throughout the length of each roll. The color shall conform to the latest appropriate standard color tolerance chart issued by the U.S. Department of Transportation, Federal Highway Administration, and to the daytime and nighttime color requirements of ASTM D 4956.

Initial Minimum Coefficient of Retroreflection candelas/foot candle/sq ft (candelas/lux/sq m) of material				
Observation Angle (deg.)	Entrance Angle (deg.)	White	Orange	Fluorescent Orange
0.2	-4	365	160	150
0.2	+30	175	80	70
0.5	-4	245	100	95
0.5	+30	100	50	40"

Revise the first sentence of the first paragraph of Article 1106.02(c) of the Standard Specifications to read:

“Barricades and vertical panels shall have alternating white and orange stripes sloping downward at 45 degrees toward the side on which traffic will pass.”

Revise the third sentence of the first paragraph of Article 1106.02(d) of the Standard Specifications to read:

“The bottom panels shall be 8 x 24 in. (200 x 600 mm) with alternating white and orange stripes sloping downward at 45 degrees toward the side on which traffic will pass.”

80183

SEEDING (BDE)

Effective: July 1, 2004
 Revised: January 1, 2010

Revise the following seeding mixtures shown in Table 1 of Article 250.07 of the Standard Specifications to read:

"Table 1 - SEEDING MIXTURES		
Class – Type	Seeds	lb/acre (kg/hectare)
1A Salt Tolerant Lawn Mixture 7/	Bluegrass Perennial Ryegrass Red Fescue (Audubon, Sea Link, or Epic) Hard Fescue (Rescue 911, Spartan II, or Reliant IV) Fults Salt Grass 1/ or Salty Alkaligrass	60 (70) 20 (20) 20 (20) 20 (20) 60 (70)
2 Roadside Mixture 7/	Tall Fescue (Inferno, Tarheel II, Quest, Blade Runner, or Falcon IV) Perennial Ryegrass Creeping Red Fescue Red Top	100 (110) 50 (55) 40 (50) 10 (10)
2A Salt Tolerant Roadside Mixture 7/	Tall Fescue (Inferno, Tarheel II, Quest, Blade Runner, or Falcon IV) Perennial Ryegrass Red Fescue (Audubon, Sea Link, or Epic) Hard Fescue (Rescue 911, Spartan II, or Reliant IV) Fults Salt Grass 1/ or Salty Alkaligrass	60 (70) 20 (20) 30 (20) 30 (20) 60 (70)
3 Northern Illinois Slope Mixture 7/	Elymus Canadensis (Canada Wild Rye) Perennial Ryegrass Alsike Cover 2/ Desmanthus Illinoensis (Illinois Bundleflower) 2/, 5/ Andropogon Scoparius (Little Bluestem) 5/ Bouteloua Curtipendula (Side-Oats Grama) Fults Salt Grass 1/ or Salty Alkaligrass Oats, Spring Slender Wheat Grass 5/ Buffalo Grass (Cody or Bowie) 4/, 5/, 9/	5 (5) 20 (20) 5 (5) 2 (2) 12 (12) 10 (10) 30 (35) 50 (55) 15 (15) 5 (5)

"Table 1 - SEEDING MIXTURES			
6A	Salt Tolerant Conservation Mixture	Andropogon Scoparius (Little Bluestem) 5/	5 (5)
		Elymus Canadensis (Canada Wild Rye) 5/	2 (2)
		Buffalo Grass (Cody or Bowie) 4/, 5/, 9/	5 (5)
		Vernal Alfalfa 2/	15 (15)
		Oats, Spring	48 (55)
		Fults Salt Grass 1/ or Salty Alkaligrass	20 (20)"

Revise Note 7 of Table 1 – Seeding Mixtures of Article 250.07 of the Standard Specifications to read:

"7/ In Districts 1 through 6, the planting times shall be April 1 to June 15 and August 1 to November 1. In Districts 7 through 9, the planting times shall be March 1 to June 1 and August 1 to November 15. Seeding may be performed outside these dates provided the Contractor guarantees a minimum of 75 percent uniform growth over the entire seeded area(s) after a period of establishment. Inspection dates for the period of establishment will be as follows: Seeding conducted in Districts 1 through 6 between June 16 and July 31 will be inspected after April 15 and seeding conducted between November 2 and March 31 will be inspected after September 15. Seeding conducted in Districts 7 through 9 between June 2 and July 31 will be inspected after April 15 and seeding conducted between November 16 and February 28 will be inspected after September 15. The guarantee shall be submitted to the Engineer in writing prior to performing the work. After the period of establishment, areas not exhibiting 75 percent uniform growth shall be interseeded or reseeded, as determined by the Engineer, at no additional cost to the Department."

Revise the first paragraph of Article 1081.04(a) of the Standard Specifications to read:

"(a) Sampling and Testing. Each lot of seed furnished shall be tested by a State Agriculture Department (including other States) or by land grant college or university agricultural sections or by a Registered Seed Technologist. Testing of seed shall be accomplished within the 12 months prior to the seed being installed on the project."

Delete the last sentence of the first paragraph of Article 1081.04(c)(2) of the Standard Specifications.

Revise Table II of Article 1081.04(c)(6) of the Standard Specifications to read:

TABLE II						
Variety of Seeds	Hard Seed	Purity	Pure Live Seed %	Weed %	Secondary * Noxious Weeds No. per oz (kg)	Notes
	% Max.	% Min.	Min.	% Max.	Max. Permitted	
Alfalfa	20	92	89	0.50	6 (211)	1/

TABLE II						
Variety of Seeds	Hard Seed	Purity	Pure Live Seed %	Weed %	Secondary * Noxious Weeds No. per oz (kg)	Notes
	% Max.	% Min.	% Min.	% Max.	Max. Permitted	
Clover, Alsike	15	92	87	0.30	6 (211)	2/
Red Fescue, Audubon	0	97	82	0.10	3 (105)	-
Red Fescue, Creeping	-	97	82	1.00	6 (211)	-
Red Fescue, Epic	-	98	83	0.05	1 (35)	-
Red Fescue, Sea Link	-	98	83	0.10	3 (105)	-
Tall Fescue, Blade Runner	-	98	83	0.10	2 (70)	-
Tall Fescue, Falcon IV	-	98	83	0.05	1 (35)	-
Tall Fescue, Inferno	0	98	83	0.10	2 (70)	-
Tall Fescue, Tarheel II	-	97	82	1.00	6 (211)	-
Tall Fescue, Quest	0	98	83	0.10	2 (70)	-
Fults Salt Grass	0	98	85	0.10	2 (70)	-
Salty Alkaligrass	0	98	85	0.10	2 (70)	-
Kentucky Bluegrass	-	97	80	0.30	7 (247)	4/
Oats	-	92	88	0.50	2 (70)	3/
Redtop	-	90	78	1.80	5 (175)	3/
Ryegrass, Perennial, Annual	-	97	85	0.30	5 (175)	3/
Rye, Grain, Winter	-	92	83	0.50	2 (70)	3/
Hard Fescue, Reliant IV	-	98	83	0.05	1 (35)	-
Hard Fescue, Rescue 911	0	97	82	0.10	3 (105)	-
Hard Fescue, Spartan II	-	98	83	0.10	3 (105)	-
Timothy	-	92	84	0.50	5 (175)	3/
Wheat, hard Red Winter	-	92	89	0.50	2 (70)	3/

Revise the first sentence of the first paragraph of Article 1081.04(c)(7) of the Standard Specifications to read:

“The seed quantities indicated per acre (hectare) for Prairie Grass Seed in Classes 3, 3A, 4, 4A, 6, and 6A in Article 250.07 shall be the amounts of pure, live seed per acre (hectare) for each species listed.”

80131

SELF-CONSOLIDATING CONCRETE FOR CAST-IN-PLACE CONSTRUCTION (BDE)

Effective: November 1, 2005

Revised: January 1, 2009

Definition. Self-consolidating concrete is a flowable mixture that does not require mechanical vibration for consolidation.

Usage. Self-consolidating concrete may be used for cast-in-place concrete construction items involving Class MS, DS, and SI concrete.

Materials. Materials shall be according to Section 1021 of the Standard Specifications.

Mix Design Criteria. Article 1020.04 of the Standard Specifications shall apply, except as follows:

- (a) The cement factor shall be according to Article 1020.04 of the Standard Specifications. If the maximum cement factor is not specified, it shall not exceed 7.05 cwt/cu yd (418 kg/cu m). The cement factor shall not be reduced if a water-reducing, retarding, or high range water-reducing admixture is used.
- (b) The maximum allowable water/cement ratio shall be according to Article 1020.04 of the Standard Specifications or 0.44, whichever is lower.
- (c) The slump requirements shall not apply.
- (d) The coarse aggregate gradations shall be CA 13, CA 14, CA 16, or a blend of these gradations. CA 11 may be used when the Contractor provides satisfactory evidence to the Engineer that the mix will not segregate. The fine aggregate proportion shall be a maximum 50 percent by weight (mass) of the total aggregate used.
- (e) The slump flow range shall be ± 2 in. (± 50 mm) of the Contractor target value, and within the overall Department range of 20 in. (510 mm) minimum to 28 in. (710 mm) maximum.
- (f) The visual stability index shall be a maximum of 1.
- (g) The J-ring value shall be a maximum of 4 in. (100 mm). The Contractor may specify a lower maximum in the mix design.
- (h) The L-box blocking ratio shall be a minimum of 60 percent. The Contractor may specify a higher minimum in the mix design.
- (i) The column segregation index shall be a maximum 15 percent.
- (j) The hardened visual stability index shall be a maximum of 1.

Test Methods. Illinois Test Procedures SCC-1, SCC-2, SCC-3, SCC-4, SCC-5, SCC-6, and Illinois Modified AASHTO T 22, 23, 121, 126, 141, 152, 177, 196, and 309 shall be used for testing of self-consolidating concrete mixtures.

Mix Design Submittal. The Contractor's Level III PCC Technician shall submit a mix design according to the "Portland Cement Concrete Level III Technician" course manual, except target slump information is not applicable and will not be required. However, a slump flow target range shall be submitted. In addition, the design mortar factor may exceed 1.10 and durability test data will be waived.

A J-ring value shall be submitted if a lower mix design maximum will apply. An L-box blocking ratio shall be submitted if a higher mix design minimum will apply. The Contractor shall also indicate applicable construction items for the mix design.

Trial mixture information will be required by the Engineer. A trial mixture is a batch of concrete tested by the Contractor to verify the Contractor's mix design will meet specification requirements. Trial mixture information shall include test results as specified in the "Portland Cement Concrete Level III Technician" course manual. Test results shall also include slump flow, visual stability index, J-ring value, L-box blocking ratio, column segregation index, and hardened visual stability index. For the trial mixture, the slump flow shall be near the midpoint of the proposed slump flow target range.

Trial Batch. A minimum 2 cu yd (1.5 cu m) trial batch shall be produced, and the self-consolidating concrete admixture dosage proposed by the Contractor shall be used. The slump flow shall be within 1.0 in. (25 mm) of the maximum slump flow range specified by the Contractor, and the air content shall be within the top half of the allowable specification range.

The trial batch shall be scheduled a minimum of 21 calendar days prior to anticipated use and shall be performed in the presence of the Engineer.

The Contractor shall provide the labor, equipment, and materials to test the concrete. The mixture will be evaluated by the Engineer for strength, air content, slump flow, visual stability index, J-ring value, L-box blocking ratio, column segregation index, and hardened visual stability index.

Upon review of the test data from the trial batch, the Engineer will verify or deny the use of the mix design and notify the Contractor. Verification by the Engineer will include the Contractor's target slump flow range. If applicable, the Engineer will verify the Contractor's maximum J-ring value and minimum L-box blocking ratio.

A new trial batch will be required whenever there is a change in the source of any component material, proportions beyond normal field adjustments, dosage of the self-consolidating concrete admixture, batch sequence, mixing speed, mixing time, or as determined by the Engineer. The testing criteria for the new trial batch will be determined by the Engineer.

When necessary, the trial batches shall be disposed of according to Article 202.03 of the Standard Specifications.

Mixing Portland Cement Concrete. In addition to Article 1020.11 of the Standard Specifications, the mixing time for central-mixed concrete shall not be reduced as a result of a mixer performance test. Truck-mixed or shrink-mixed concrete shall be mixed in a truck mixer for a minimum of 100 revolutions.

Wash water, if used, shall be completely discharged from the drum or container before the succeeding batch is introduced.

The batch sequence, mixing speed, and mixing time shall be appropriate to prevent cement balls and mix foaming for central-mixed, truck-mixed, and shrink-mixed concrete.

Falsework and Forms. In addition to Articles 503.05 and 503.06 of the Standard Specifications, the Contractor shall ensure the design of the falsework and forms is adequate for the additional form pressure caused by the fluid concrete. Forms shall be tight to prevent leakage of fluid concrete.

When the form height for placing the self-consolidating concrete is greater than 10.0 ft (3.0 m), direct monitoring of form pressure shall be performed according to Illinois Test Procedure SCC-10. The monitoring requirement is a minimum, and the Contractor shall remain responsible for adequate design of the falsework and forms. A minimum of one sensor will be required below each point of concrete placement to measure the maximum pressure. The first sensor below the point of concrete placement shall be approximately 12 in. (300 mm) above the base of the formwork. Additional sensors shall be installed above the bottom sensor when the form height is greater than 10.0 ft (3.0 m) above the bottom sensor. The additional sensors shall be installed at a maximum vertical spacing of 10.0 ft (3.0 m). The Contractor shall record the formwork pressure during concrete placement. This information shall be used by the Contractor to prevent the placement rate from exceeding the maximum formwork pressure allowed, to monitor the thixotropic change in the concrete during the pour, and to make appropriate adjustments to the mix design. This information shall be provided to the Engineer during the pour.

Placing and Consolidating. Concrete placement and consolidation shall be according to Article 503.07 of the Standard Specifications, except as follows:

Revise the third paragraph of Article 503.07 of the Standard Specifications to read:

“Open troughs and chutes shall extend as nearly as practicable to the point of deposit. The drop distance of concrete shall not exceed 5 ft (1.5 m). If necessary, a tremie shall be used to meet this requirement. The maximum distance of horizontal flow from the point of deposit shall be 25 ft (7.6 m), unless approved otherwise by the Engineer. For drilled shafts, free fall placement will not be permitted.”

Delete the seventh, eighth, ninth, and tenth paragraphs of Article 503.07 of the Standard Specifications.

Add to the end of the eleventh paragraph of Article 503.07 of the Standard Specifications the following:

“Concrete shall be rodded with a piece of lumber, conduit, or vibrator if the material has lost its fluidity prior to placement of additional concrete. The vibrator shall be the pencil head type with a maximum diameter or width of 1 in. (25 mm). Any other method for restoring the fluidity of the concrete shall be approved by the Engineer.”

Quality Control by Contractor at Plant. The specified test frequencies for aggregate gradation, aggregate moisture, air content, unit weight/yield, and temperature shall be performed as indicated in the contract.

Slump flow, visual stability index, and J-ring or L-box tests shall be performed as needed to control production. The column segregation index test and hardened visual stability index test will not be required to be performed at the plant.

Quality Control by Contractor at Jobsite. The specified test frequencies for air content, strength, and temperature shall be performed as indicated in the contract.

Slump flow, visual stability index, and J-ring or L-box tests shall be performed on the first two truck deliveries of the day, and every 50 cu yd (40 cu m) thereafter. The Contractor shall select either the J-ring or L-box test for jobsite testing.

The column segregation index test will not be required to be performed at the jobsite. The hardened visual stability index test shall be performed on the first truck delivery of the day, and every 300 cu yd (230 cu m) thereafter. Slump flow, visual stability index, J-ring value or L-box blocking ratio, air content, and concrete temperature shall be recorded for each hardened visual stability index test.

The Contractor shall retain all hardened visual stability index cut cylinder specimens until the Engineer notifies the Contractor that the specimens may be discarded.

If mix foaming or other potential detrimental material is observed during placement or at the completion of the pour, the material shall be removed while the concrete is still plastic.

Quality Assurance by Engineer at Plant. For air content and aggregate gradation, quality assurance independent sample testing and split sample testing will be performed as indicated in the contract.

For slump flow, visual stability index, and J-ring or L-box tests, quality assurance independent sample testing and split sample testing will be performed as determined by the Engineer.

Quality Assurance by Engineer at Jobsite. For air content and strength, quality assurance independent sample testing and split sample testing will be performed as indicated in the contract.

For slump flow, visual stability index, J-ring or L-box, and hardened visual stability index tests, quality assurance independent sample testing will be performed as determined by the Engineer.

For slump flow and visual stability index quality assurance split sample testing, the Engineer will perform tests at the beginning of the project on the first three tests performed by the Contractor. Thereafter, a minimum of ten percent of total tests required of the Contractor will be performed per plant, which will include a minimum of one test per mix design. The acceptable limit of precision will be 1.5 in. (40 mm) for slump flow and a limit of precision will not apply to the visual stability index.

For the J-ring or the L-box quality assurance split sample testing, a minimum of 80 percent of the total tests required of the Contractor will be witnessed by the Engineer per plant, which will include a minimum of one witnessed test per mix design. The Engineer reserves the right to conduct quality assurance split sample testing. The acceptable limit of precision will be 1.5 in. (40 mm) for the J-ring value and ten percent for the L-box blocking ratio.

For each hardened visual stability index test performed by the Contractor, the cut cylinders shall be presented to the Engineer for determination of the rating. The Engineer reserves the right to conduct quality assurance split sample testing. A limit of precision will not apply to the hardened visual stability index.

80152

SELF-CONSOLIDATING CONCRETE FOR PRECAST PRODUCTS (BDE)

Effective: July 1, 2004

Revised: January 1, 2007

Definition. Self-consolidating concrete is a flowable mixture that does not require mechanical vibration for consolidation.

Usage. Self-consolidating concrete may be used for precast concrete products.

Materials. Materials shall be according to Section 1021 of the Standard Specifications.

Mix Design Criteria. The mix design criteria shall be as follows:

- (a) The minimum cement factor shall be according to Article 1020.04 of the Standard Specifications. If the maximum cement factor is not specified, it shall not exceed 7.05 cwt/cu yd (418 kg/cu m).
- (b) The maximum allowable water/cement ratio shall be according to Article 1020.04 of the Standard Specifications or 0.44, whichever is lower.
- (c) The slump requirements of Article 1020.04 of the Standard Specifications shall not apply.
- (d) The coarse aggregate gradations shall be CA 13, CA 14, CA 16, or a blend of these gradations. CA 11 may be used when the Contractor provides satisfactory evidence to the Engineer that the mix will not segregate. The fine aggregate proportion shall be a maximum 50 percent by weight (mass) of the total aggregate used.
- (e) The slump flow range shall be ± 2 in. (± 50 mm) of the Contractor target value, and within the overall Department range of 20 in. (510 mm) minimum to 28 in. (710 mm) maximum.
- (f) The visual stability index shall be a maximum of 1.
- (g) The J-ring value shall be a maximum of 4 in. (100 mm). The Contractor may specify a lower maximum in the mix design.
- (h) The L-box blocking ratio shall be a minimum of 60 percent. The Contractor may specify a higher minimum in the mix design.
- (i) The column segregation index shall be a maximum 15 percent.
- (j) The hardened visual stability index shall be a maximum of 1.

Placing and Consolidating. The maximum distance of horizontal flow from the point of deposit shall be 25 ft (7.6 m), unless approved otherwise by the Engineer.

Concrete shall be rodded with a piece of lumber, conduit, or vibrator if the material has lost its fluidity prior to placement of additional concrete. The vibrator shall be the pencil head type with a maximum diameter or width of 1 in. (25 mm). Any other method for restoring the fluidity of the concrete shall be approved by the Engineer.

Mix Design Approval. The Contractor shall obtain mix design approval according to the Department's Policy Memorandum "Quality Control/Quality Assurance Program for Precast Concrete Products".

80132

SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE)

Effective: April 2, 2005

To account for the preparatory work and operations necessary for the movement of subcontractor personnel, equipment, supplies, and incidentals to the project site and for all other work or operations that must be performed or costs incurred when beginning work approved for subcontracting in accordance with Article 108.01 of the Standard Specifications, the Contractor shall make a mobilization payment to each subcontractor.

This mobilization payment shall be made at least 14 days prior to the subcontractor starting work. The amount paid shall be equal to 3 percent of the amount of the subcontract reported on form BC 260A submitted for the approval of the subcontractor's work.

This provision shall be incorporated directly or by reference into each subcontract approved by the Department.

80143

TEMPORARY EROSION CONTROL (BDE)

Effective: November 1, 2002
Revised: January 1, 2010

Add the following to Article 280.02 of the Standard Specifications to read:

“(k) Filter Fabric 1080.03”

Revise the third paragraph of Article 280.03 of the Standard Specifications to read:

“Erosion control systems shall be installed prior to beginning any activities which will potentially create erodible conditions. Erosion control systems for areas outside the limits of construction such as storage sites, plant sites, waste sites, haul roads, and Contractor furnished borrow sites shall be installed prior to beginning soil disturbing activities at each area. These offsite systems shall be designed by the Contractor and be subject to the approval of the Engineer.”

Add the following paragraph after the third paragraph of Article 280.03 of the Standard Specifications:

“The temporary erosion and sediment control systems shown on the plans represent the minimum systems anticipated for the project. Conditions created by the Contractor’s operations, or for the Contractor’s convenience, which are not covered by the plans, shall be protected as directed by the Engineer at no additional cost to the Department. Revisions or modifications of the erosion and sediment control systems shall have the Engineer’s written approval.”

Revise Article 280.04(a) of the Standard Specifications to read:

“(a) Temporary Ditch Checks. This system consists of the construction of temporary ditch checks to prevent siltation, erosion, or scour of ditches and drainage ways. Temporary ditch checks shall be constructed with rolled excelsior, products from the Department’s approved list, or with aggregate placed on filter fabric when specified. Filter fabric shall be installed according to the requirements of Section 282. Riprap shall be placed according to Article 281.04. Manufactured ditch checks shall be installed according to the manufacturer’s specifications. Spacing of ditch checks shall be such that the low point in the center of one ditch check is at the same elevation as the base of the ditch check immediately upstream. Temporary ditch checks shall be sufficiently long enough that the top of the device in the middle of the ditch is lower than the bottom of the terminating ends of the ditch side slopes.”

Revise the last sentence of the first paragraph of Article 280.04(g) of the Standard Specifications to read:

“The temporary mulch cover shall be according to either Article 251.03 or 251.04 except for any reference to seeding.”

Revise Article 280.07(b) of the Standard Specifications to read:

“(b) Temporary Ditch Checks. This work will be measured for payment along the long axis of the device in place in feet (meters) except for aggregate ditch checks which will be measured for payment in tons (metric tons). Payment will not be made for aggregate in excess of 108 percent of the amount specified by the Engineer.”

Revise Article 280.07(f) of the Standard Specifications to read:

“(f) Temporary Mulch. This work will be measured for payment according to Article 251.05(b).”

Add the following paragraph after the ninth paragraph of Article 280.07 of the Standard Specifications:

“Temporary or permanent erosion control systems required for areas outside the limits of construction will not be measured for payment.”

Revise Article 280.08(b) of the Standard Specifications to read:

“(b) Temporary Ditch Checks. This work will be paid for at the contract unit price per foot (meter) for TEMPORARY DITCH CHECKS except for aggregate ditch checks which will be paid for at the contract unit price per ton (metric ton) for AGGREGATE DITCH CHECKS.”

Revise Article 280.08(f) of the Standard Specifications to read:

“(f) Temporary Mulch. Temporary Mulch will be paid for according to Article 251.06.”

Delete the tenth (last) paragraph of Article 280.08 of the Standard Specifications.

Revise the second sentence of the first paragraph of Article 1081.015(e) of the Standard Specifications to read:

“The upstream facing of the aggregate ditch check shall be constructed of gradation CA 3. The remainder of the ditch check shall be constructed of gradation RR 3.”

80087

THERMOPLASTIC PAVEMENT MARKINGS (BDE)

Effective: January 1, 2007

Revise Article 1095.01(a)(2) of the Standard Specifications to read:

- “(2) Pigment. The pigment used for the white thermoplastic compound shall be a high-grade pure (minimum 93 percent) titanium dioxide (TiO₂). The white pigment content shall be a minimum of ten percent by weight and shall be uniformly distributed throughout the thermoplastic compound.

The pigments used for the yellow thermoplastic compound shall not contain any hazardous materials listed in the Environmental Protection Agency Code of Federal Regulations (CFR) 40, Section 261.24, Table 1. The combined total of RCRA listed heavy metals shall not exceed 100 ppm when tested by X-ray fluorescence spectroscopy. The pigments shall also be heat resistant, UV stable and color-fast yellows, golds, and oranges, which shall produce a compound which shall match Federal Standard 595 Color No. 33538. The pigment shall be uniformly distributed throughout the thermoplastic compound.”

Revise Article 1095.01(b)(1)e. of the Standard Specifications to read:

- “e. Daylight Reflectance and Color. The thermoplastic compound after heating for four hours ± five minutes at 425 ± 3 °F (218.3 ± 2 °C) and cooled at 77 °F (25 °C) shall meet the following requirements for daylight reflectance and color, when tested, using a color spectrophotometer with 45 degree circumferential/zero degree geometry, illuminant C, and two degree observer angle. The color instrument shall measure the visible spectrum from 380 to 720 nm with a wavelength measurement interval and spectral bandpass of 10 nm.

White: Daylight Reflectance75 percent min.

*Yellow: Daylight Reflectance45 percent min.

*Shall meet the coordinates of the following color tolerance chart.

x	0.490	0.475	0.485	0.530
y	0.470	0.438	0.425	0.456”

Revise Article 1095.01(b)(1)k. of the Standard Specifications to read:

- “k. Accelerated Weathering. After heating the thermoplastic for four hours ± five minutes at 425 ± 3 °F (218.3 ± 2 °C) the thermoplastic shall be applied to a steel wool abraded aluminum alloy panel (Federal Test Std. No. 141, Method 2013) at a film thickness of 30 mils (0.70 mm) and allowed to cool for 24 hours at room temperature. The coated panel shall be subjected to accelerated weathering

using the light and water exposure apparatus (fluorescent UV - condensation type) for 75 hours according to ASTM G 53 (equipped with UVB-313 lamps).

The cycle shall consist of four hours UV exposure at 122 °F (50 °C) followed by four hours of condensation at 104 °F (40 °C). UVB 313 bulbs shall be used. At the end of the exposure period, the panel shall not exceed 10 Hunter Lab Delta E units from the original material.”

80176

WORKING DAYS (BDE)

Effective: January 1, 2002

The Contractor shall complete the work within **95** working days.

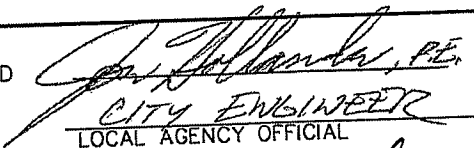
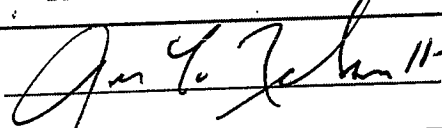
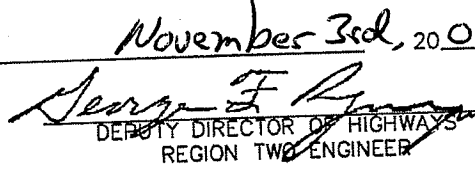
80071

ALPINE - CENTRAL - W.STATE LAPP PROJECT
 CITY OF ROCKFORD - WINNEBAGO COUNTY
 SECTION 09-00569-00-RS
 PROJECT ARA-5099(098)
 JOB NO. C-92-025-10
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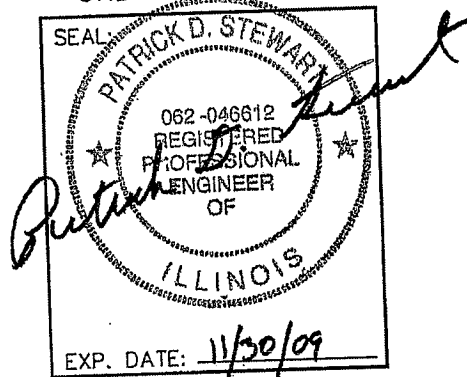
WINNEBAGO COUNTY
SECTION 09-00569-00-RS

ALPINE ROAD SOUTH CENTRAL AVENUE WEST STATE STREET

APPROVED	 CITY ENGINEER LOCAL AGENCY OFFICIAL	10-16-09 20__
PASSED	 DIST. ENGR. - LOCAL ROADS & STREETS	11-03 20 09
RELEASING FOR BID BASED ON LIMITED REVIEW	 DEPUTY DIRECTOR OF HIGHWAYS REGION TWO ENGINEER	November 3rd, 20 09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

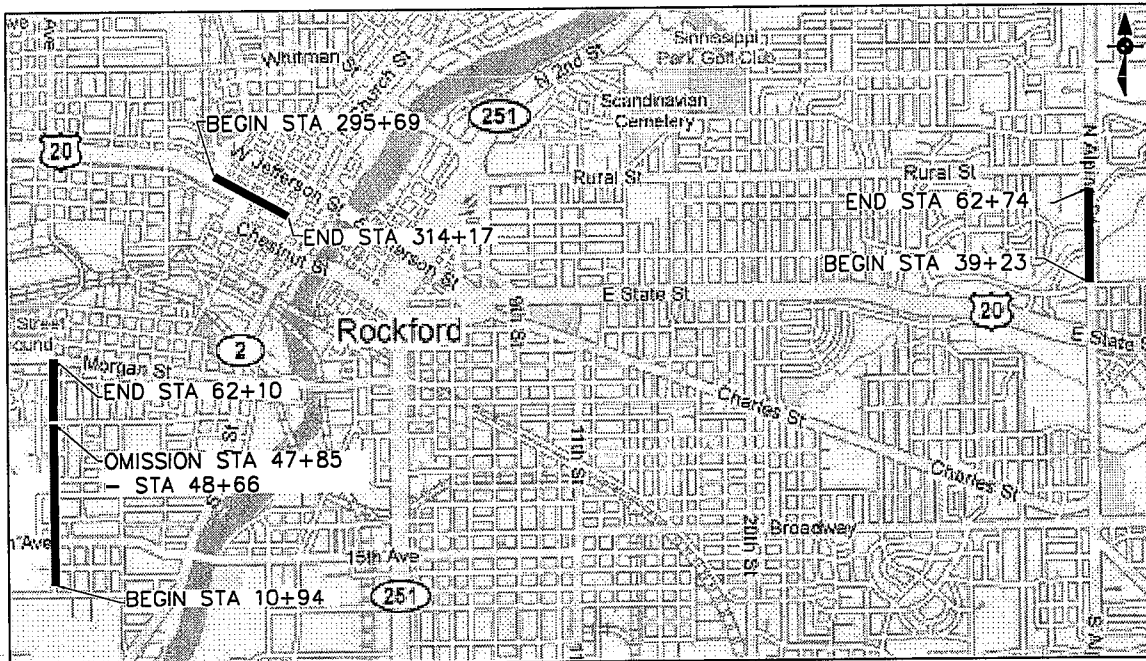
LAPP GUIDELINES
ALPINE ROAD: 2009 ADT 27,200 (5% TRUCKS)
URBAN PRINCIPAL ARTERIAL
SOUTH CENTRAL AVENUE: 2009 ADT 5180 (4% TRUCKS)
URBAN MINOR ARTERIAL(MORGAN-MICHIGAN)
2009 ADT 850 (4% TRUCKS)
URBAN COLLECTOR(MICHIGAN-OGILBY)
WEST STATE STREET: 2009 ADT 6120 (3.7% TRUCKS)
URBAN COLLECTOR



WINNEBAGO COUNTY
SECTION 09-00569-00-RS

FEDERAL AID PROJECT

FEDERAL AID PRIMARY AND URBAN LAPP RESURFACING
 FAP ROUTE 412 (ALPINE ROAD)
 FAU ROUTE 5102 (SOUTH CENTRAL AVENUE)
 FAU ROUTE 5063 (WEST STATE STREET)
 SECTION 09-00569-00-RS
 PROJECT ARA-5099(098)
 WINNEBAGO COUNTY
 JOB NO. C-92-025-10



ALPINE ROAD - MORSAY DRIVE TO 200' SOUTH OF RURAL ST.
 SOUTH CENTRAL AVENUE - OGILBY ROAD TO MORGAN AVENUE
 WEST STATE STREET - KILBURN AVE. TO CHURCH ST.

LIMITS OF CONSTRUCTION:

ALPINE ROAD - BEGINS STATION 39+23 - ENDS STATION 62+74
 SOUTH CENTRAL AVENUE - BEGINS STATION 10+94 - ENDS STATION 62+10
 (OMISSION STATION 47+85 - STATION 48+66)
 WEST STATE STREET - BEGINS STATION 295+69 - ENDS STATION 314+17

NET LENGTH:

ALPINE ROAD - 2351 LF OR 0.45 MILES
 SOUTH CENTRAL AVENUE - 5035 LF OR 0.95 MILES
 WEST STATE STREET - 1848 LF OR 0.35 MILES

CONTRACT NO. 85493

ALPINE - CENTRAL - W. STATE LAPP PROJECT
CITY OF ROCKFORD - WINNEBAGO COUNTY
SECTION 09-00569-00-RS
PROJECT ARA-5099(098)
JOB NO. C-92-025-10
SUMMARY OF QUANTITIES
CONSTRUCTION TYPE: I 100

No.	Item	Units	ALPINE	CENTRAL	STATE	TOTAL
28000500	INLET AND PIPE PROTECTION	EACH	12	23	17	52
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	3,030	2,721	1,382	7,133
40600300	AGGREGATE (PRIME COAT)	TON	61	55	28	144
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	1,015	908		1,923
40600825	POLYMERIZED LEVELING BINDER (MACHINE METHOD), N50	TON	1,316		387	1,703
40600990	TEMPORARY RAMP	SQ YD	188	391	213	792
40603510	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON		928		928
40603535	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON		376	662	1,038
40603560	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N50	TON	828			828
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	306	1,200	1,990	3,496
42400800	DETECTABLE WARNINGS	SQ FT	54	222	120	396
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD		12,911	9,216	22,127
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD		5,228		5,228
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	14,441			14,441
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	27	498	337	862
44000600	SIDEWALK REMOVAL	SQ FT	306	1,152	1,990	3,448
* 44200934	CLASS B PATCHES, TYPE II, 8 INCH	SQ YD			555	555
* 44200944	CLASS B PATCHES, TYPE IV, 8 INCH	SQ YD			80	80
* 44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD		43		43
* 44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD		1,590		1,590
* 44201974	CLASS D PATCHES, TYPE I	SQ YD	370			370
* 44201978	CLASS D PATCHES, TYPE III	SQ YD		37		37
* 44201980	CLASS D PATCHES, TYPE IV	SQ YD	764	1,987		2,751
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	4,702	1,223		5,925
60255500	MANHOLES TO BE ADJUSTED	EACH	1	6	6	13
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	2	2	5
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	7	7	15
60265900	VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	2	2	5
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1		2	3
60609800	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.18	FOOT	27	359		386

ALPINE - CENTRAL - W. STATE LAPP PROJECT
 CITY OF ROCKFORD - WINNEBAGO COUNTY
 SECTION 09-00569-00-RS
 PROJECT ARA-5099(098)
 JOB NO. C-92-025-10
 SUMMARY OF QUANTITIES
 CONSTRUCTION TYPE: I 100

No.	Item	Units	ALPINE	CENTRAL	STATE	TOTAL
60610100	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.18 (MODIFIED)	FOOT			337	337
60610907	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.30	FOOT		139		139
67100100	MOBILIZATION	L SUM	0.3	0.5	0.2	1
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	0.3	0.5	0.2	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3			3
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1,168	720	312	2,200
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	67.6			68
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	7,259	990	1,620	9,869
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	82	240	924	1,246
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	311		41	352
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	350		47	397
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	21	42	112	175
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3,520	775	1,405	5,700
△ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	67.6			68
△ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	7,259	990	1,620	9,869
△ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	82	240	924	1,246
△ 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	311		41	352
△ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	350		47	397
△ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	21	42	112	175
△ 88600100	DETECTOR LOOP, TYPE I	FOOT	100			100
* X0321556	SANITARY MANHOLES TO BE ADJUSTED	EACH	1	14	5	20
* XX000970	PARKWAY RESTORATION	L SUM	0.2	0.8		1
* XX007759	ADJUST SANITARY SEWER CLEANOUT	EACH		5		5
* Z0017202	DOWEL BARS 1 1/2"	EACH			1,472	1,472
* Z0028415	GEOTECHNICAL REINFORCEMENT	SQ YD	897	322		1,219
* Z0028700	GRANULAR SUBGRADE REPLACEMENT	CU YD	164	55		219

△ SPECIALTY ITEMS

ALPINE - CENTRAL - W. STATE LAPP PROJECT
CITY OF ROCKFORD - WINNEBAGO COUNTY
SECTION 09-00569-00-RS
PROJECT ARA-5099(098)
JOB NO. C-92-025-10
SCHEDULE OF QUANTITIES

28000500 INLET AND PIPE PROTECTION

STA	OFF	SIDE	EACH
40+61	28	RT	1
40+62	42	LT	1
44+61	28	RT	1
44+62	27	LT	1
47+88	26	RT	1
47+88	25	LT	1
51+61	31	RT	1
52+09	31	LT	1
55+59	28	RT	1
59+27	28	RT	1
59+28	27	LT	1
62+60	33	RT	1
TOTAL			12

STA	OFF	SIDE	EACH
295+55	21	RT	1
298+80	21	RT	1
299+02	21	LT	1
302+43	40	LT	1
302+80	40	LT	1
306+16	21	RT	1
306+16	21	LT	1
306+40	40	LT	1
306+40	45	RT	1
306+75	41	LT	1
306+76	46	RT	1
310+12	23	LT	1
310+30	23	RT	1
310+54	27	RT	1
310+75	40	LT	1
314+16	23	LT	1
314+16	23	RT	1
TOTAL			17

TOTAL 23

ALPINE - CENTRAL - W. STATE LAPP PROJECT
 CITY OF ROCKFORD - WINNEBAGO COUNTY
 SECTION 09-00569-00-RS
 PROJECT ARA-5099(098)
 JOB NO. C-92-025-10
 SCHEDULE OF QUANTITIES

40600990 TEMPORARY RAMP

ALPINE ROAD	LOCATION	SQ YD
	SOUTH END	64
	MARAY - EB TO SB	16
	MARAY - SB TO WB	16
	EASTRIDGE	21
	ASCHANALI	27
	NORTH END	44
	TOTAL	188

CENTRAL AVENUE	LOCATION	SQ YD
	SOUTH END	23
	WISCONSIN - WB	22
	WISCONSIN - EB	25
	MICHIGAN - WB	25
	MICHIGAN - EB	25
	DOMINO	24
	ISLAND	23
	LINCOLN	21
	HARDING - WB	21
	HARDING - EB	22
	AT MONTAGUE - NB	27
	AT MONTAGUE - SB	30
	HULIN	24
	LOOMIS - WB	25
	LOOMIS - EB	24
	NORTH END	30
	TOTAL	391

W. STATE STREET	LOCATION	SQ YD
	WEST END	32
	HORSMAN	26
	ROCKTON	30
	WINNEBAGO - NB	29
	WINNEBAGO - SB	28
	COURT	32
	EAST END	36
	TOTAL	213

ALPINE - CENTRAL - W. STATE LAPP PROJECT
 CITY OF ROCKFORD - WINNEBAGO COUNTY
 SECTION 09-00569-00-RS
 PROJECT ARA-5099(098)
 JOB NO. C-92-025-10
 SCHEDULE OF QUANTITIES

42400800 DETECTABLE WARNINGS

ALPINE ROAD INTERSECTION	QUAD	SQ FT
MORSAY	NW	6
MARAY DR	SW	6
	NW	6
MARAY ISLAND	NW	6
	SW	6
EASTRIDGE	SW	6
	NW	6
ASCHANALI RD	SW	6
	NW	6
TOTAL		54

CENTRAL AVENUE INTERSECTION	QUAD	SQ FT	W. STATE STREET INTERSECTION	QUAD	SQ FT
WISCONSIN AVE.	SE	12	HORSMAN ST.	NW	12
	SW	12		NE	12
	NE	12	N. ROCKTON AVE.	NW	12
	NW	12		NE	12
MICHIGAN AVE.	SE	12	WINNEBAGO ST.	NW	12
	SW	12		NE	12
	NE	6		SE	12
	NW	12	S. COURT ST.	NW	12
DOMINO AVE.	SW	6		NE	12
	NW	6		SE	6
ISLAND AVE.	SE	6		SW	6
	NE	6	TOTAL		120
LINCOLN AVE.	SE	6			
	NE	6			
HARDING ST.	SE	12			
	SW	12			
	NE	12			
	NW	12			
HULIN ST.	SW	6			
	NW	12			
LOOMIS ST.	SW	6			
	NE	12			
	NW	12			
TOTAL		222			

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44000500 COMBINATION CURB AND GUTTER REMOVAL

ALPINE ROAD				CENTRAL AVENUE				W. STATE STREET				
STA	STA	SIDE	FOOT	STA	STA	SIDE	FOOT	STA	STA	SIDE	FOOT	
45+47	45+56	LT	13	15+59	15+78	RT	31	298+32	298+48	LT	22	
46+38	46+48	LT	14	15+60	15+77	LT	27	298+82	299+00	LT	27	
				16+04	16+25	RT	32	302+28	302+40	LT	25	
		TOTAL	27	16+06	16+22	LT	25	302+81	303+00	LT	28	
				21+47	21+68	RT	33	306+25	306+40	LT	22	
				21+47	21+68	LT	33	306+77	306+92	LT	22	
				22+00	22+24	RT	27	306+77	306+93	RT	23	
				21+97	22+17	LT	27	310+24	310+38	LT	20	
				31+95	32+04	RT	14	310+77	310+90	LT	20	
				32+35	32+45	RT	14	297+83	298+32	LT	48	
				35+31	35+44	RT	25	303+69	304+04	LT	35	
				35+70	35+89	RT	25	304+74	304+94	LT	20	
				41+07	41+21	RT	21	305+61	305+86	LT	25	
				41+07	41+20	LT	21					
				41+47	41+63	RT	26					
				41+46	41+60	LT	21					
				53+18	53+26	LT	17					
				58+36	58+45	LT	15					
				58+66	58+87	RT	31					
				58+74	58+95	LT	33					
				TOTAL						TOTAL		
							498				337	

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44000600	SIDEWALK REMOVAL	
INTERSECTION	ALPINE ROAD QUAD	SQ FT
MORSAY	NW	41
MARAY DR	SW	54
	NW	84
EASTRIDGE	SW	43
	NW	28
ASCHANALI RD	SW	20
	NW	36
TOTAL		306

INTERSECTION	CENTRAL AVENUE QUAD	SQ FT
WISCONSIN AVE.	SE	54
	SW	50
	NE	52
	NW	54
MICHIGAN AVE.	SE	54
	SW	50
	NE	20
	NW	38
DOMINO AVE.	SW	25
	NW	25
ISLAND AVE.	SE	30
	NE	31
LINCOLN AVE.	SE	79
	NE	28
HARDING ST.	SE	72
	SW	58
	NE	52
	NW	103
HULIN ST.	SW	35
	NW	71
LOOMIS ST.	SW	28
	NE	74
	NW	69
TOTAL		1152

INTERSECTION	W. STATE STREET QUAD	SQ FT
HORSMAN ST.	NW	188
	NE	152
N. ROCKTON AVE.	NW	89
	NE	94
WINNEBAGO ST.	NW	118
	NE	110
	SE	118
S. COURT ST.	NW	114
	NE	117
	SE	45
	SW	6
STA	SIDE	SQ FT
297+84 - 298+27	LT	439
303+69 - 304+04	LT	175
304+74 - 304+94	LT	100
305+61 - 305+86	LT	125
TOTAL		1990

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44200934 CLASS B PATCHES, TYPE II, 8 INCH

W. STATE STREET									
STA1	OFF1	STA2	OFF2	STA3	OFF3	STA4	OFF4	SQ YD	
295+87	-20.65	295+93	-20.65	295+93	-8.65	295+87	-8.65	8	
295+87	-8.65	295+93	-8.65	295+93	0	295+87	0	6	
295+87	0	295+93	0	295+93	8.65	295+87	8.65	6	
295+87	8.65	295+93	8.65	295+93	20.65	295+87	20.65	8	
296+41	-20.65	296+47	-20.65	296+47	8.65	296+41	8.65	8	
296+41	-8.65	296+47	-8.65	296+47	0	296+41	0	6	
296+41	0	296+47	0	296+47	8.65	296+41	8.65	6	
296+41	8.65	296+47	8.65	296+47	20.65	296+41	20.65	8	
296+91	-20.65	296+97	-20.65	296+97	8.65	296+91	8.65	8	
296+91	-8.65	296+97	-8.65	296+97	0	296+91	0	6	
296+91	0	296+97	0	296+97	8.65	296+91	8.65	6	
296+91	8.65	296+97	8.65	296+97	20.65	296+91	20.65	8	
297+42	-20.65	297+48	-20.65	297+48	8.65	297+42	8.65	8	
297+42	-8.65	297+48	-8.65	297+48	0	297+42	0	6	
297+42	0	297+48	0	297+48	8.65	297+42	8.65	6	
297+42	8.65	297+48	8.65	297+48	20.65	297+42	20.65	8	
297+94	-20.65	298+00	-20.65	298+00	8.65	297+94	8.65	8	
297+94	-8.65	298+00	-8.65	298+00	0	297+94	0	6	
297+94	0	298+00	0	298+00	8.65	297+94	8.65	6	
297+94	8.65	298+00	8.65	298+00	20.65	297+94	20.65	8	
298+31	-20.65	298+37	-20.65	298+37	8.65	298+31	8.65	8	
298+31	-8.65	298+37	-8.65	298+37	0	298+31	0	6	
298+31	0	298+37	0	298+37	8.65	298+31	8.65	6	
298+31	8.65	298+37	8.65	298+37	20.65	298+31	20.65	8	
298+92	-20.65	298+98	-20.65	298+98	8.65	298+92	8.65	8	
298+92	-8.65	298+98	-8.65	298+98	0	298+92	0	6	

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STA1	OFF1	STA2	OFF2	STA3	OFF3	STA4	OFF4	SQ YD
298+92	0	298+98	0	298+98	8.65	298+92	8.65	6
298+92	8.65	298+98	8.65	298+98	20.65	298+92	20.65	8
299+39	-20.65	299+45	-20.65	299+45	8.65	299+39	8.65	8
299+39	-8.65	299+45	-8.65	299+45	0	299+39	0	6
299+39	0	299+45	0	299+45	8.65	299+39	8.65	6
299+39	8.65	299+45	8.65	299+45	20.65	299+39	20.65	8
299+91	-20.65	299+97	-20.65	299+97	8.65	299+91	8.65	8
299+91	-8.65	299+97	-8.65	299+97	0	299+91	0	6
299+91	0	299+97	0	299+97	8.65	299+91	8.65	6
299+91	8.65	299+97	8.65	299+97	20.65	299+91	20.65	8
300+39	-20.65	300+45	-20.65	300+45	8.65	300+39	8.65	8
300+39	-8.65	300+45	-8.65	300+45	0	300+39	0	6
300+39	0	300+45	0	300+45	8.65	300+39	8.65	6
300+39	8.65	300+45	8.65	300+45	20.65	300+39	20.65	8
300+89	-20.65	300+95	-20.65	300+95	8.65	300+89	8.65	8
300+89	-8.65	300+95	-8.65	300+95	0	300+89	0	6
300+89	0	300+95	0	300+95	8.65	300+89	8.65	6
300+89	8.65	300+95	8.65	300+95	20.65	300+89	20.65	8
301+41	-20.65	301+47	-20.65	301+47	8.65	301+41	8.65	8
301+41	-8.65	301+47	-8.65	301+47	0	301+41	0	6
301+41	0	301+47	0	301+47	8.65	301+41	8.65	6
301+41	8.65	301+47	8.65	301+47	20.65	301+41	20.65	8
301+90	-20.65	301+96	-20.65	301+96	8.65	301+90	8.65	8
301+90	-8.65	301+96	-8.65	301+96	0	301+90	0	6
301+90	0	301+96	0	301+96	8.65	301+90	8.65	6
301+90	8.65	301+96	8.65	301+96	20.65	301+90	20.65	8

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44200934 CLASS B PATCHES, TYPE II, 8 INCH

W. STATE STREET									
STA1	OFF1	STA2	OFF2	STA3	OFF3	STA4	OFF4	SQ YD	
303+66	-20.65	303+72	-20.65	303+72	8.65	303+66	8.65	8	
303+66	-8.65	303+72	-8.65	303+72	0	303+66	0	6	
303+66	0	303+72	0	303+72	8.65	303+66	8.65	6	
303+66	8.65	303+72	8.65	303+72	20.65	303+66	20.65	8	
304+71	-20.65	304+77	-20.65	304+77	8.65	304+71	8.65	8	
304+71	-8.65	304+77	-8.65	304+77	0	304+71	0	6	
304+71	0	304+77	0	304+77	8.65	304+71	8.65	6	
304+71	8.65	304+77	8.65	304+77	20.65	304+71	20.65	8	
306+83	-22.85	306+89	-22.85	306+89	-10.85	306+83	-10.85	8	
306+83	-10.85	306+89	-10.85	306+89	0	306+83	0	7	
306+83	0	306+89	0	306+89	10.85	306+83	10.85	7	
306+83	10.85	306+89	10.85	306+89	22.85	306+83	22.85	8	
309+63	-22.85	309+69	-22.85	309+69	-10.85	309+63	-10.85	8	
309+63	-10.85	309+69	-10.85	309+69	0	309+63	0	7	
309+63	0	309+69	0	309+69	10.85	309+63	10.85	7	
309+63	10.85	309+69	10.85	309+69	22.85	309+63	22.85	8	
310+92	-22.85	310+98	-22.85	310+98	-10.85	310+92	-10.85	8	
310+92	-10.85	310+98	-10.85	310+98	0	310+92	0	7	
310+92	0	310+98	0	310+98	10.85	310+92	10.85	7	
310+92	10.85	310+98	10.85	310+98	22.85	310+92	22.85	8	
312+27	0	312+33	0	312+33	10.85	312+27	10.85	7	
312+27	10.85	312+33	10.85	312+33	22.85	312+27	22.85	8	
313+45	-22.85	313+51	-22.85	313+51	-10.85	313+45	-10.85	8	
313+45	-10.85	313+51	-10.85	313+51	0	313+45	0	7	
313+45	0	313+51	0	313+51	10.85	313+45	10.85	7	
313+45	10.85	313+51	10.85	313+51	22.85	313+45	22.85	8	
TOTAL									555

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44200944 CLASS B PATCHES, TYPE IV, 8 INCH

		W. STATE STREET							
<u>STA1</u>	<u>OFF1</u>	<u>STA2</u>	<u>OFF2</u>	<u>STA3</u>	<u>OFF3</u>	<u>STA4</u>	<u>OFF4</u>	<u>SQ YD</u>	
30820	-22.85	308+60	-22.85	308+60	-10.85	308+20	-10.85	53	
30820	-10.85	308+60	-10.85	308+60	-4.85	308+20	-4.85	27	
TOTAL								80	

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44201721 CLASS D PATCHES, TYPE III, 6 INCH

		CENTRAL AVENUE							
<u>STA1</u>	<u>OFF1</u>	<u>STA2</u>	<u>OFF2</u>	<u>STA3</u>	<u>OFF3</u>	<u>STA4</u>	<u>OFF4</u>	<u>SQ.YD</u>	
32+68	5	32+86	5	32+86	15	32+68	15	20	
47+27	8	47+57	8	47+57	15	47+27	15	23	

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44201723 CLASS D PATCHES, TYPE IV, 6 INCH

STA1	OFF1	STA2	OFF2	STA3	OFF3	STA4	OFF4	SQ YD
11+88	0	12+64	0	12+64	13	11+88	13	111
14+19	0	15+43	0	15+43	13	14+19	13	182
16+62	-13	17+54	-13	17+54	3	16+62	3	102
22+51	-17	22+88	-17	22+88	0	22+51	0	68
27+52	-17	28+03	-17	28+03	0	27+52	0	95
27+60	0	28+27	0	28+27	17	27+60	17	124
36+77	-15	38+64	-15	38+64	0	36+77	0	312
36+87	0	38+07	0	38+07	15	36+87	15	200
38+07	0	38+64	0	38+64	15	38+07	15	96
40+36	5	41+07	5	41+07	15	40+36	15	79
42+13	-15	42+53	-15	42+53	-8	42+13	-8	31
43+52	-15	44+34	-15	44+34	-8	43+52	-8	64
45+40	8	45+98	8	45+98	15	45+40	15	45
45+42	-15	45+95	-15	45+95	-8	45+42	-8	41
46+72	-15	47+02	-15	47+02	-3	46+72	-3	40
TOTAL								1590

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44201974 CLASS D PATCHES, TYPE I

STA1	OFF1	STA2	OFF2	ALPINE ROAD	STA3	OFF3	STA4	OFF4	SQ YD
39+36	-11	39+40	-11	39+40	39+40	0	39+36	0	5
41+95	0	41+99	0	41+99	41+99	11	41+95	11	5
43+20	0	43+24	0	43+24	43+24	11	43+20	11	5
43+46	-11	43+50	-11	43+50	43+50	0	43+46	0	5
43+46	0	43+50	0	43+50	43+50	11	43+46	0	5
43+77	-25	43+81	-25	43+81	43+81	-14	43+77	-14	5
43+83	0	43+87	0	43+87	43+87	11	43+83	11	5
44+13	-10	44+17	-10	44+17	44+17	0	44+13	0	5
44+13	0	44+17	0	44+17	44+17	12	44+13	12	5
44+42	-11	44+46	-11	44+46	44+46	0	44+42	0	5
44+42	0	44+46	0	44+46	44+46	11	44+42	11	5
44+68	-11	44+72	-11	44+72	44+72	0	44+68	0	5
44+68	0	44+72	0	44+72	44+72	11	44+68	11	5
44+82	-11	44+86	-11	44+86	44+86	0	44+82	0	5
44+82	0	44+86	0	44+86	44+86	11	44+82	11	5
44+89	12	44+93	12	44+93	44+93	23	44+89	23	5
45+07	0	45+11	0	45+11	45+11	11	45+07	11	5
45+66	-22	45+70	-22	45+70	45+70	-11	45+66	-11	5
45+66	-11	45+70	-11	45+70	45+70	0	45+66	0	5
45+66	0	45+70	0	45+70	45+70	11	45+66	11	5
45+66	11	45+70	11	45+70	45+70	22	45+66	22	5
45+94	-22	45+98	-22	45+98	45+98	-11	45+94	-11	5
45+94	-11	45+98	-11	45+98	45+98	0	45+94	0	5
45+94	0	45+98	0	45+98	45+98	11	45+94	11	5
45+94	11	45+98	11	45+98	45+98	22	45+94	22	5
48+34	-22	48+38	-22	48+38	48+38	-11	48+34	-11	5
48+34	-11	48+38	-11	48+38	48+38	0	48+34	0	5
48+34	0	48+38	0	48+38	48+38	11	48+34	11	5
49+95	16	49+99	16	49+99	49+99	27	49+95	27	5
50+59	-22	50+63	-22	50+63	50+63	-11	50+59	-11	5
50+59	-11	50+63	-11	50+63	50+63	0	50+59	0	5

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STA1	OFF1	STA2	OFF2	ALPINE ROAD			STA4	OFF4	SQ YD
				STA3	OFF3				
50+59	0	50+63	0	50+63	11	50+59	11	5	
50+59	11	50+63	11	50+63	22	50+59	22	5	
51+13	-22	51+17	-22	51+17	-11	51+13	-11	5	
51+13	-11	51+17	-11	51+17	0	51+13	0	5	
51+13	0	51+17	0	51+17	11	51+13	11	5	
51+13	11	51+17	11	51+17	22	51+13	22	5	
51+31	-22	51+35	-22	51+35	-11	51+31	-11	5	
51+31	-11	51+35	-11	51+35	0	51+31	0	5	
51+31	0	51+35	0	51+35	11	51+31	11	5	
51+31	11	51+35	11	51+35	22	51+31	22	5	
51+45	-22	51+49	-22	51+49	-11	51+45	-11	5	
51+45	-11	51+49	-11	51+49	0	51+45	0	5	
51+45	0	51+49	0	51+49	11	51+45	11	5	
51+45	11	51+49	11	51+49	22	51+45	22	5	
51+65	-22	51+69	-22	51+69	-11	51+65	-11	5	
51+65	-11	51+69	-11	51+69	0	51+65	0	5	
51+65	0	51+69	0	51+69	11	51+65	11	5	
51+65	11	51+69	11	51+69	22	51+65	22	5	
52+05	-22	52+09	-22	52+09	-11	52+05	-11	5	
52+05	-11	52+09	-11	52+09	0	52+05	0	5	
52+05	0	52+09	0	52+09	11	52+05	11	5	
52+05	-22	52+65	-22	52+65	-11	52+61	-11	5	
52+61	-11	52+65	-11	52+65	0	52+61	0	5	
52+61	0	52+65	0	52+65	11	52+61	11	5	
53+52	-12	53+56	-12	53+56	1	53+52	1	5	
54+67	-22	54+71	-22	54+71	-11	54+67	-11	5	
54+67	-11	54+71	-11	54+71	0	54+67	0	5	
54+67	0	54+71	0	54+71	11	54+67	11	5	
55+51	-22	55+55	-22	55+55	-11	55+51	-11	5	
55+51	-11	55+55	-11	55+55	0	55+51	0	5	
55+51	0	55+55	0	55+55	11	55+51	11	5	

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STA1	OFF1	STA2	OFF2	STA3	OFF3	STA4	OFF4	SQ YD
58+71	-22	58+75	-22	58+75	-11	58+71	-11	5
58+71	-11	58+75	-11	58+75	0	58+71	0	5
58+71	0	58+75	0	58+75	11	58+71	11	5
58+71	11	58+75	11	58+75	22	58+71	22	5
58+99	-22	59+03	-22	59+03	-11	58+99	-11	5
58+99	-11	59+03	-11	59+03	0	58+99	0	5
58+99	0	59+03	0	59+03	11	58+99	11	5
58+99	11	59+03	11	59+03	22	58+99	22	5
62+49	-22	62+53	-22	62+53	-11	62+49	-11	5
62+49	-11	62+53	-11	62+53	0	62+49	0	5
62+70	-22	62+74	-22	62+74	-11	62+70	-11	5
62+70	-11	62+74	-11	62+74	0	62+70	0	5

TOTAL 370

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44201978 CLASS D PATCHES, TYPE III

		CENTRAL AVENUE							
<u>STA1</u>	<u>OFF1</u>	<u>STA2</u>	<u>OFF2</u>	<u>STA3</u>	<u>OFF3</u>	<u>STA4</u>	<u>OFF4</u>	<u>SQ YD</u>	
53+61	-4	53+78	-4	53+78	4	53+61	4	15	
58+80	13	59+20	13	59+20	18	58+80	18	22	
TOTAL								37	

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 SCHEDULE OF QUANTITIES

44201980 CLASS D PATCHES, TYPE IV

STA1	OFF1	STA2	OFF2	STA3	OFF3	STA4	OFF4	SQ YD
42+96	-28	43+55	-25	43+55	-21	42+95	-24	27
44+44	-24	44+84	-24	44+84	-18	44+44	-18	29
61+83	-13	62+74	-13	62+74	-9	61+83	-9	40
61+67	-23	62+74	-23	62+74	-19	61+67	-19	48
41+97	11	42+46	11	42+46	25	41+97	25	80
43+07	11	43+64	11	43+64	25	43+06	25	93
49+59	-26	50+29	-28	50+28	0	49+58	0	210
47+79	10	49+22	10	49+21	26	47+79	26	237
ALPINE ROAD								TOTAL
								764

STA1	OFF1	STA2	OFF2	STA3	OFF3	STA4	OFF4	SQ YD
48+67	-17	50+75	-17	50+75	0	48+67	0	388
49+89	11	50+75	11	50+75	17	49+89	17	57
50+75	0	51+42	0	51+42	17	50+75	17	125
50+97	-17	51+52	-17	51+52	-7	50+97	-7	61
51+73	-17	52+06	-17	52+06	-7	51+73	-7	37
51+73	0	52+83	0	52+83	17	51+73	17	205
52+06	-17	53+15	-17	53+15	0	52+06	0	203
53+99	-17	54+55	-17	54+55	4	53+99	4	81
54+55	-17	55+36	-17	55+36	17	54+55	17	304
55+36	-5	55+66	-5	55+66	3	55+36	3	27
56+31	-17	56+72	-17	56+72	-4	56+31	-4	59
56+31	4	56+72	4	56+72	17	56+31	17	59
57+54	5	58+04	5	58+04	17	57+54	17	67
58+90	-17	59+32	-17	59+32	-6	58+90	-6	51
59+96	-17	60+38	-17	60+38	-6	59+96	-6	105
59+96	-6	60+38	-6	60+38	17	59+96	17	51
60+89	9	62+09	9	62+09	17	60+89	17	107
CENTRAL AVENUE								TOTAL
								1987

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60255500 MANHOLES TO BE ADJUSTED

STA	OFF	SIDE	EACH
51+60	23	LT	1
TOTAL			1

STA	OFF	SIDE	EACH
27+31	14.8	RT	1
32+08	15.7	RT	1
35+72	13.1	RT	1
41+06	-6.2	LT	1
41+15	12.8	RT	1
41+54	10.4	RT	1
TOTAL			6

STA	OFF	SIDE	EACH
306+39	23	LT	1
306+41	20	RT	1
310+37	12	LT	1
310+70	12	LT	1
312+36	21	LT	1
312+46	14	LT	1
TOTAL			6

60255800 MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID

STA	OFF	SIDE	EACH
55+59	27	LT	1
TOTAL			1

STA	OFF	SIDE	EACH
32+46	13.2	RT	1
35+38	13.6	RT	1
TOTAL			2

STA	OFF	SIDE	EACH
309+35	11	LT	1
310+32	24	LT	1
TOTAL			2

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60265700 VALVE VAULTS TO BE ADJUSTED

STA	OFF	SIDE	EACH
39+60	33.7	LT	1
TOTAL			1

STA	OFF	SIDE	EACH
21+74	32.3	LT	1
21+95	31.2	LT	1
21+93	32.4	RT	1
31+98	6.9	LT	1
35+32	9.5	LT	1
41+39	30.3	LT	1
53+15	7.6	LT	1
TOTAL			7

STA	OFF	SIDE	EACH
296+80	15	LT	1
302+96	22	LT	1
306+75	15	LT	1
308+57	10	LT	1
310+38	15	RT	1
312+29	19	LT	1
312+82	11	RT	1
TOTAL			7

60265900 VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID

STA	OFF	SIDE	EACH
51+66	43.1	LT	1
TOTAL			1

STA	OFF	SIDE	EACH
31+67	7.9	RT	1
31+95	7.9	RT	1
TOTAL			2

STA	OFF	SIDE	EACH
307+36	12	RT	1
308+33	16	LT	1
TOTAL			2

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 SCHEDULE OF QUANTITIES

60266600 VALVE BOXES TO BE ADJUSTED

STA	ALPINE ROAD OFF	SIDE	EACH
55+86	33	LT	1
			1

STA	W. STATE STREET OFF	SIDE	EACH
302+53	23	LT	1
302+56	34	LT	1
			2

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 SCHEDULE OF QUANTITIES

60609800 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.18

ALPINE ROAD		CENTRAL AVENUE		FOOT
STA	SIDE	STA	SIDE	
45+47	LT	15+78	RT	31
46+38	LT	15+77	LT	27
		16+25	RT	32
		16+22	LT	25
		21+68	RT	33
		21+68	LT	33
		22+24	RT	27
		22+17	LT	27
		32+04	RT	14
		32+45	RT	14
		53+26	LT	17
		58+45	LT	15
		58+87	RT	31
		58+74	LT	33
TOTAL				359

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 SCHEDULE OF QUANTITIES

60610100 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.18 (MODIFIED)

STA	W. STATE STREET STA	SIDE	FOOT
298+32	298+48	LT	22
298+82	299+00	LT	27
302+28	302+40	LT	25
302+81	303+00	LT	28
306+25	306+40	LT	22
306+77	306+92	LT	22
306+77	306+93	RT	23
310+24	310+38	LT	20
310+77	310+90	LT	20
297+83	298+32	LT	48
303+69	304+04	LT	35
304+74	304+94	LT	20
305+61	305+86	LT	25
TOTAL			337

60610907 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.30

STA	CENTRAL AVENUE STA	SIDE	FOOT
35+31	35+44	RT	25
35+70	35+89	RT	25
41+07	41+21	RT	21
41+07	41+20	LT	21
41+47	41+63	RT	26
41+46	41+60	LT	21
TOTAL			139

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88600100	DETECTOR LOOP, TYPE I			
		ALPINE ROAD		
	INTERSECTION	APPROACH	SIZE	FOOT
	MORSAY	SBLT	6X20	100
			TOTAL	100

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X0321556 SANITARY MANHOLES TO BE ADJUSTED

ALPINE ROAD			
STA	OFF	SIDE	EACH
39+40	34.9	LT	1
TOTAL			1

CENTRAL AVENUE			
STA	OFF	SIDE	EACH
12+00	11.1	LT	1
13+94	10.9	LT	1
15+95	10.9	LT	1
18+36	11.2	LT	1
20+78	10.5	LT	1
35+57	0.6	LT	1
37+35	0.1	LT	1
39+70	6.4	LT	1
42+03	5.6	LT	1
44+08	0	RT	1
46+17	0.4	LT	1
53+47	28	LT	1
58+56	0.3	RT	1
60+93	1.1	LT	1
TOTAL			14

W. STATE STREET			
STA	OFF	SIDE	EACH
297+98	18	LT	1
302+63	10	RT	1
306+50	9	RT	1
308+38	10	LT	1
310+63	8	RT	1
TOTAL			5

XX007759 ADJUST SANITARY SEWER CLEANOUT

CENTRAL AVENUE			
STA	OFF	SIDE	EACH
13+44	11.1	LT	1
14+39	11	LT	1
15+09	12.1	LT	1
16+74	11.3	LT	1
16+77	11.3	LT	1
TOTAL			5

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Z0028415 GEOTECHNICAL REINFORCEMENT

STA1	OFF1	STA2	OFF2	STA3	OFF3	STA4	OFF4	SQ YD
39+36	-11	39+40	-11	39+40	0	39+36	0	5
41+95	0	41+99	0	41+99	11	41+95	11	5
41+97	11	42+46	11	42+46	25	41+97	25	80
42+96	-28	43+55	-25	43+55	-21	42+95	-24	27
43+07	11	43+64	11	43+64	25	43+06	25	93
43+20	0	43+24	0	43+24	11	43+20	11	5
43+46	-11	43+50	-11	43+50	0	43+46	0	5
43+46	0	43+50	0	43+50	11	43+46	0	5
43+77	-25	43+81	-25	43+81	-14	43+77	-14	5
43+83	0	43+87	0	43+87	11	43+83	11	5
44+13	-10	44+17	-10	44+17	0	44+13	0	5
44+13	0	44+17	0	44+17	12	44+13	12	5
44+42	-11	44+46	-11	44+46	0	44+42	0	5
44+42	0	44+46	0	44+46	11	44+42	11	5
44+44	-24	44+84	-24	44+84	-18	44+44	-18	29
44+68	-11	44+72	-11	44+72	0	44+68	0	5
44+68	0	44+72	0	44+72	11	44+68	11	5
44+82	-11	44+86	-11	44+86	0	44+82	0	5
44+82	0	44+86	0	44+86	11	44+82	11	5
44+89	12	44+93	12	44+93	23	44+89	23	5
45+07	0	45+11	0	45+11	11	45+07	11	5
45+66	-22	45+70	-22	45+70	-11	45+66	-11	5
45+66	-11	45+70	-11	45+70	0	45+66	0	5
45+66	0	45+70	0	45+70	11	45+66	11	5
45+66	11	45+70	11	45+70	22	45+66	22	5
45+94	-22	45+98	-22	45+98	-11	45+94	-11	5
45+94	-11	45+98	-11	45+98	0	45+94	0	5
45+94	0	45+98	0	45+98	11	45+94	11	5
45+94	11	45+98	11	45+98	22	45+94	22	5
48+34	-22	48+38	-22	48+38	-11	48+34	-11	5
48+34	-11	48+38	-11	48+38	0	48+34	0	5

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Z0028415 GEOTECHNICAL REINFORCEMENT

STA1	OFF1	STA2	OFF2	STA3	OFF3	STA4	OFF4	SQ YD
48+34	0	48+38	0	48+38	11	48+34	11	5
49+59	-26	50+29	-28	50+28	0	49+58	0	210
49+95	16	49+99	16	49+99	27	49+95	27	5
50+59	-22	50+63	-22	50+63	-11	50+59	-11	5
50+59	-11	50+63	-11	50+63	0	50+59	0	5
50+59	0	50+63	0	50+63	11	50+59	11	5
50+59	11	50+63	11	50+63	22	50+59	22	5
51+13	-22	51+17	-22	51+17	-11	51+13	-11	5
51+13	-11	51+17	-11	51+17	0	51+13	0	5
51+13	0	51+17	0	51+17	11	51+13	11	5
51+13	11	51+17	11	51+17	22	51+13	22	5
51+31	-22	51+35	-22	51+35	-11	51+31	-11	5
51+31	-11	51+35	-11	51+35	0	51+31	0	5
51+31	0	51+35	0	51+35	11	51+31	11	5
51+31	11	51+35	11	51+35	22	51+31	22	5
51+45	-22	51+49	-22	51+49	-11	51+45	-11	5
51+45	-11	51+49	-11	51+49	0	51+45	0	5
51+45	0	51+49	0	51+49	11	51+45	11	5
51+45	11	51+49	11	51+49	22	51+45	22	5
51+65	-22	51+69	-22	51+69	-11	51+65	-11	5
51+65	-11	51+69	-11	51+69	0	51+65	0	5
51+65	0	51+69	0	51+69	11	51+65	11	5
51+65	11	51+69	11	51+69	22	51+65	22	5
52+05	-22	52+09	-22	52+09	-11	52+05	-11	5
52+05	-11	52+09	-11	52+09	0	52+05	0	5
52+05	0	52+09	0	52+09	11	52+05	11	5
52+61	-22	52+65	-22	52+65	-11	52+61	-11	5
52+61	-11	52+65	-11	52+65	0	52+61	0	5
52+61	0	52+65	0	52+65	11	52+61	11	5
53+52	-12	53+56	-12	53+56	1	53+52	1	5
54+67	-22	54+71	-22	54+71	-11	54+67	-11	5

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Z0028415 GEOTECHNICAL REINFORCEMENT

STA1	OFF1	STA2	OFF2	STA3	OFF3	STA4	OFF4	SQ YD
54+67	-11	54+71	-11	54+71	0	54+67	0	5
54+67	0	54+71	0	54+71	11	54+67	11	5
55+51	-22	55+55	-22	55+55	-11	55+51	-11	5
55+51	-11	55+55	-11	55+55	0	55+51	0	5
55+51	0	55+55	0	55+55	11	55+51	11	5
58+71	-22	58+75	-22	58+75	-11	58+71	-11	5
58+71	-11	58+75	-11	58+75	0	58+71	0	5
58+71	0	58+75	0	58+75	11	58+71	11	5
58+71	11	58+75	11	58+75	22	58+71	22	5
58+99	-22	59+03	-22	59+03	-11	58+99	-11	5
58+99	-11	59+03	-11	59+03	0	58+99	0	5
58+99	0	59+03	0	59+03	11	58+99	11	5
58+99	11	59+03	11	59+03	22	58+99	22	5
61+67	-23	62+74	-23	62+74	-19	61+67	-19	48
61+83	-13	62+74	-13	62+74	-9	61+83	-9	40
62+49	-22	62+53	-22	62+53	-11	62+49	-11	5
62+49	-11	62+53	-11	62+53	0	62+49	0	5
62+70	-22	62+74	-22	62+74	-11	62+70	-11	5
62+70	-11	62+74	-11	62+74	0	62+70	0	5
TOTAL								897

STA1	OFF1	STA2	OFF2	STA3	OFF3	STA4	OFF4	SQ YD
38+07	0	38+64	0	38+64	15	38+07	15	96
49+89	11	50+75	11	50+75	17	49+89	17	57
51+73	-17	52+06	-17	52+06	-7	51+73	-7	37
56+31	4	56+72	4	56+72	17	56+31	17	59
58+80	13	59+20	13	59+20	18	58+80	18	22
59+96	-6	60+38	-6	60+38	17	59+96	17	51
TOTAL								322

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Z0028700 GRANULAR SUBGRADE REPLACEMENT

STA1	OFF1	STA2	OFF2	STA3	OFF3	STA4	OFF4	CU YD
39+36	-11	39+40	-11	39+40	0	39+36	0	1
41+95	0	41+99	0	41+99	11	41+95	11	1
41+97	11	42+46	11	42+46	25	41+97	25	14
42+96	-28	43+55	-25	43+55	-21	42+95	-24	5
43+07	11	43+64	11	43+64	25	43+06	25	16
43+20	0	43+24	0	43+24	11	43+20	11	1
43+46	-11	43+50	-11	43+50	0	43+46	0	1
43+46	0	43+50	0	43+50	11	43+46	0	1
43+77	-25	43+81	-25	43+81	-14	43+77	-14	1
43+83	0	43+87	0	43+87	11	43+83	11	1
44+13	-10	44+17	-10	44+17	0	44+13	0	1
44+13	0	44+17	0	44+17	12	44+13	12	1
44+42	-11	44+46	-11	44+46	0	44+42	0	1
44+42	0	44+46	0	44+46	11	44+42	11	1
44+44	-24	44+84	-24	44+84	-18	44+44	-18	5
44+68	-11	44+72	-11	44+72	0	44+68	0	1
44+68	0	44+72	0	44+72	11	44+68	11	1
44+82	-11	44+86	-11	44+86	0	44+82	0	1
44+82	0	44+86	0	44+86	11	44+82	11	1
44+89	12	44+93	12	44+93	23	44+89	23	1
45+07	0	45+11	0	45+11	11	45+07	11	1
45+66	-22	45+70	-22	45+70	-11	45+66	-11	1
45+66	-11	45+70	-11	45+70	0	45+66	0	1
45+66	0	45+70	0	45+70	11	45+66	11	1
45+66	11	45+70	11	45+70	22	45+66	22	1
45+94	-22	45+98	-22	45+98	-11	45+94	-11	1
45+94	-11	45+98	-11	45+98	0	45+94	0	1
45+94	0	45+98	0	45+98	11	45+94	11	1
45+94	11	45+98	11	45+98	22	45+94	22	1
48+34	-22	48+38	-22	48+38	-11	48+34	-11	1
48+34	-11	48+38	-11	48+38	0	48+34	0	1

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Z0028700 GRANULAR SUBGRADE REPLACEMENT

STA1	OFF1	STA2	OFF2	STA3	OFF3	STA4	OFF4	CU YD
48+34	0	48+38	0	48+38	11	48+34	11	1
49+59	-26	50+29	-28	50+28	0	49+58	0	35
49+95	16	49+99	16	49+99	27	49+95	27	1
50+59	-22	50+63	-22	50+63	-11	50+59	-11	1
50+59	-11	50+63	-11	50+63	0	50+59	0	1
50+59	0	50+63	0	50+63	11	50+59	11	1
50+59	11	50+63	11	50+63	22	50+59	22	1
51+13	-22	51+17	-22	51+17	-11	51+13	-11	1
51+13	-11	51+17	-11	51+17	0	51+13	0	1
51+13	0	51+17	0	51+17	11	51+13	11	1
51+13	11	51+17	11	51+17	22	51+13	22	1
51+31	-22	51+35	-22	51+35	-11	51+31	-11	1
51+31	-11	51+35	-11	51+35	0	51+31	0	1
51+31	0	51+35	0	51+35	11	51+31	11	1
51+31	11	51+35	11	51+35	22	51+31	22	1
51+45	-22	51+49	-22	51+49	-11	51+45	-11	1
51+45	-11	51+49	-11	51+49	0	51+45	0	1
51+45	0	51+49	0	51+49	11	51+45	11	1
51+45	11	51+49	11	51+49	22	51+45	22	1
51+65	-22	51+69	-22	51+69	-11	51+65	-11	1
51+65	-11	51+69	-11	51+69	0	51+65	0	1
51+65	0	51+69	0	51+69	11	51+65	11	1
51+65	11	51+69	11	51+69	22	51+65	22	1
52+05	-22	52+09	-22	52+09	-11	52+05	-11	1
52+05	-11	52+09	-11	52+09	0	52+05	0	1
52+05	0	52+09	0	52+09	11	52+05	11	1
52+05	11	52+09	11	52+09	-11	52+05	-11	1
52+61	-22	52+65	-22	52+65	-11	52+61	-11	1
52+61	-11	52+65	-11	52+65	0	52+61	0	1
52+61	0	52+65	0	52+65	11	52+61	11	1
53+52	-12	53+56	-12	53+56	1	53+52	1	1
54+67	-22	54+71	-22	54+71	-11	54+67	-11	1

CONTINUED

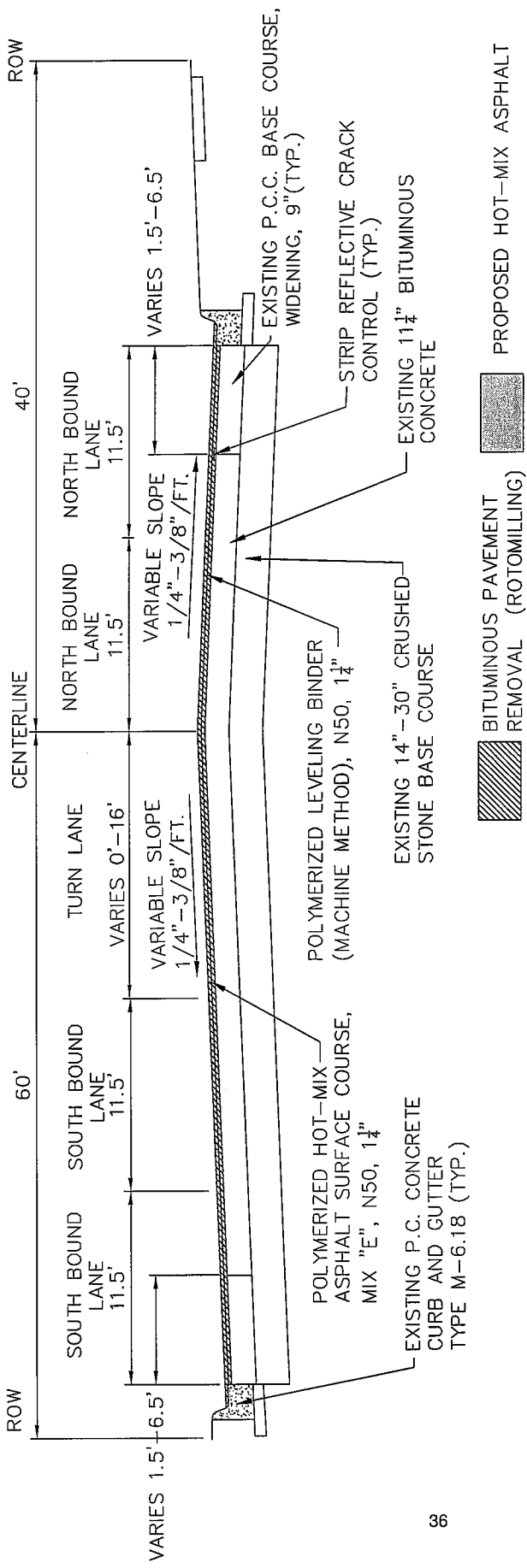
ALPINE - CENTRAL - W. STATE LAPP PROJECT
 CITY OF ROCKFORD - WINNEBAGO COUNTY
 SECTION 09-00569-00-RS
 PROJECT ARA-5099(098)
 JOB NO. C-92-025-10
 SCHEDULE OF QUANTITIES

Z0028700 GRANULAR SUBGRADE REPLACEMENT

ALPINE ROAD									
STA1	OFF1	STA2	OFF2	STA3	OFF3	STA4	OFF4	CU YD	
54+67	-11	54+71	-11	54+71	0	54+67	0	1	
54+67	0	54+71	0	54+71	11	54+67	11	1	
55+51	-22	55+55	-22	55+55	-11	55+51	-11	1	
55+51	-11	55+55	-11	55+55	0	55+51	0	1	
55+51	0	55+55	0	55+55	11	55+51	11	1	
58+71	-22	58+75	-22	58+75	-11	58+71	-11	1	
58+71	-11	58+75	-11	58+75	0	58+71	0	1	
58+71	0	58+75	0	58+75	11	58+71	11	1	
58+71	11	58+75	11	58+75	22	58+71	22	1	
58+99	-22	59+03	-22	59+03	-11	58+99	-11	1	
58+99	-11	59+03	-11	59+03	0	58+99	0	1	
58+99	0	59+03	0	59+03	11	58+99	11	1	
58+99	11	59+03	11	59+03	22	58+99	22	1	
61+67	-23	62+74	-23	62+74	-19	61+67	-19	8	
61+83	-13	62+74	-13	62+74	-9	61+83	-9	7	
62+49	-22	62+53	-22	62+53	-11	62+49	-11	1	
62+49	-11	62+53	-11	62+53	0	62+49	0	1	
62+70	-22	62+74	-22	62+74	-11	62+70	-11	1	
62+70	-11	62+74	-11	62+74	0	62+70	0	1	
									TOTAL
									164

CENTRAL AVENUE									
STA1	OFF1	STA2	OFF2	STA3	OFF3	STA4	OFF4	CU YD	
3806.96	0	3864.26	0	3864.26	15	3806.96	15	16	
4989.21	11	5075.21	11	5075.21	17	4989.21	17	10	
5173.21	-17	5206.21	-17	5206.21	-7	5173.21	-7	6	
5630.55	4	5671.55	4	5671.55	17	5630.55	17	10	
5879.83	13	5919.83	13	5919.83	18	5879.83	18	4	
5995.97	-6	6037.97	-6	6037.97	17	5995.97	17	9	
									TOTAL
									55

TYPICAL SECTION ALPINE ROAD

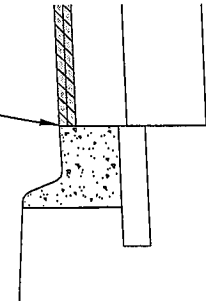


PROPOSED TYPICAL SECTION - ALPINE ROAD

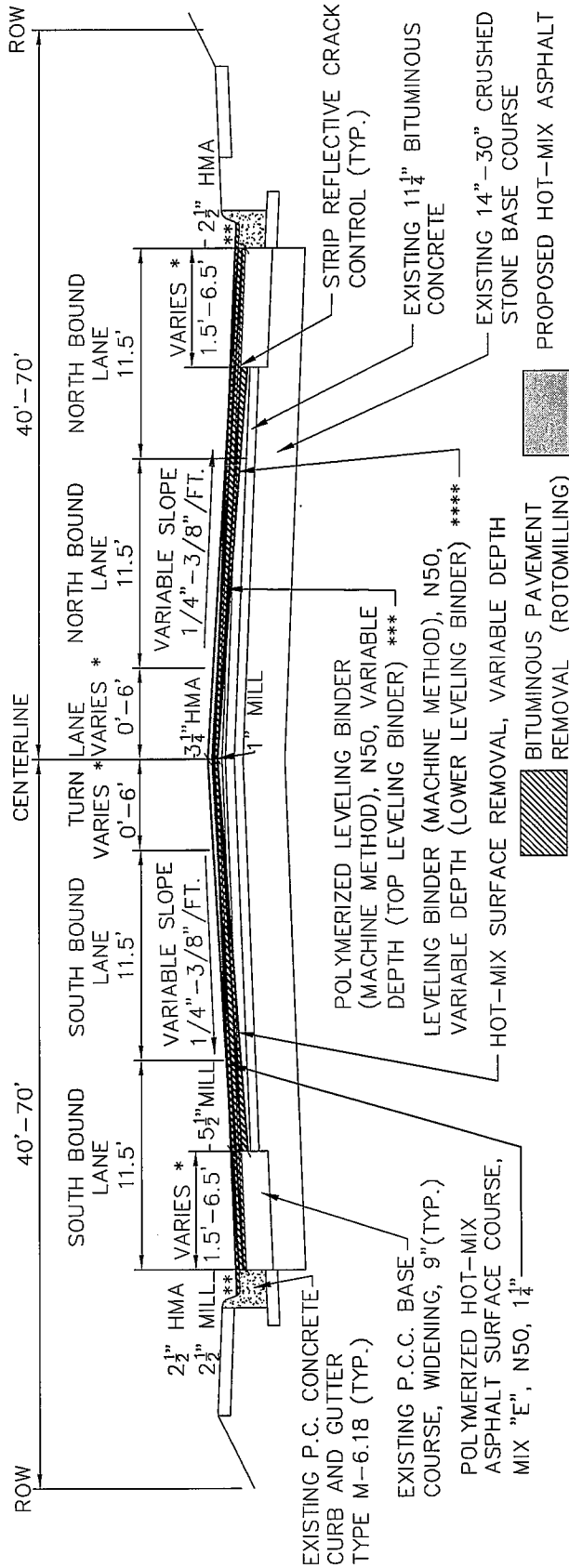
STA: 39+23-43+50 N.T.S.

WHEN EXISTING GUTTER IS NOT PAVED IN, MATCH AT EOP

MIXTURE COMPOSITION TABLE ALPINE ROAD			
MIXTURE USES	SURFACE	TOP LEVELING BINDER	LOWER LEVELING BINDER
PG	SBS PG 64-28	SBS-PG 64-28	PG 58-22
DESIGN AIR VOIDS	4.0 AT N50	4.0 AT N50	4.0 AT N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 9.5	IL 9.5
FRICTION AGGREGATE 20 YEAR ESAL	E 2.6	N/A 2.6	N/A 2.6



TYPICAL SECTION ALPINE ROAD



PROPOSED TYPICAL SECTION - ALPINE ROAD

* VARIES FROM 1.5' BETWEEN STATIONS:
 48+29-54+84 RT & LT
 60+46-62+74 RT
 61+41-62+74 LT

** GUTTER IS NOT OVERLAYED BETWEEN FOLLOWING STATIONS:
 48+29-54+84 RT
 59+79-62+74 RT
 45+06-57+16 LT
 59+79-62+74 LT

*** DEPTH VARIES FROM 2" AT CENTERLINE 1 1/4" AT CURB

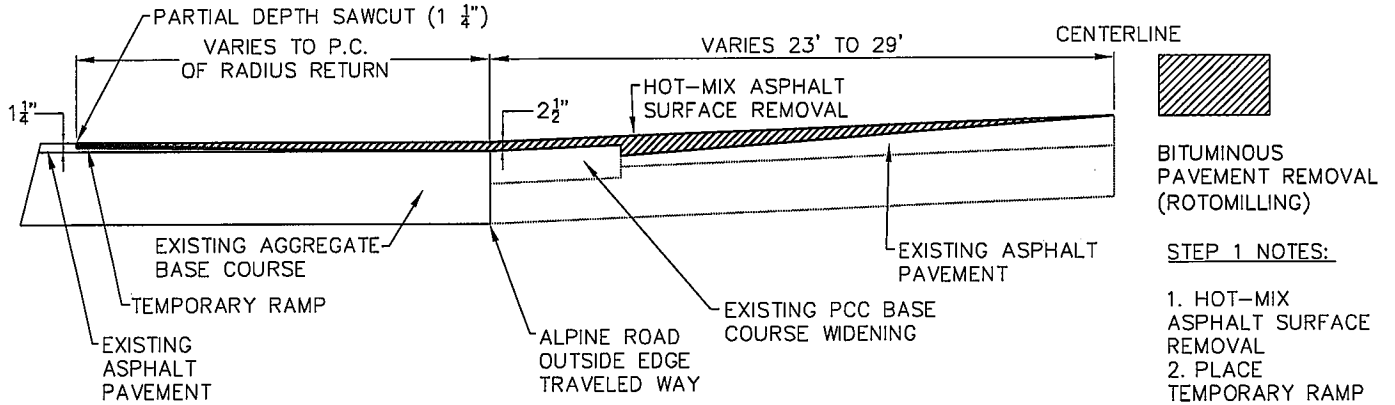
**** DEPTH VARIES FROM 0" AT CENTERLINE 3" AT INSIDE EDGE OF CONCRETE WIDENING

STA: 43+50 - 62+74 N.T.S.

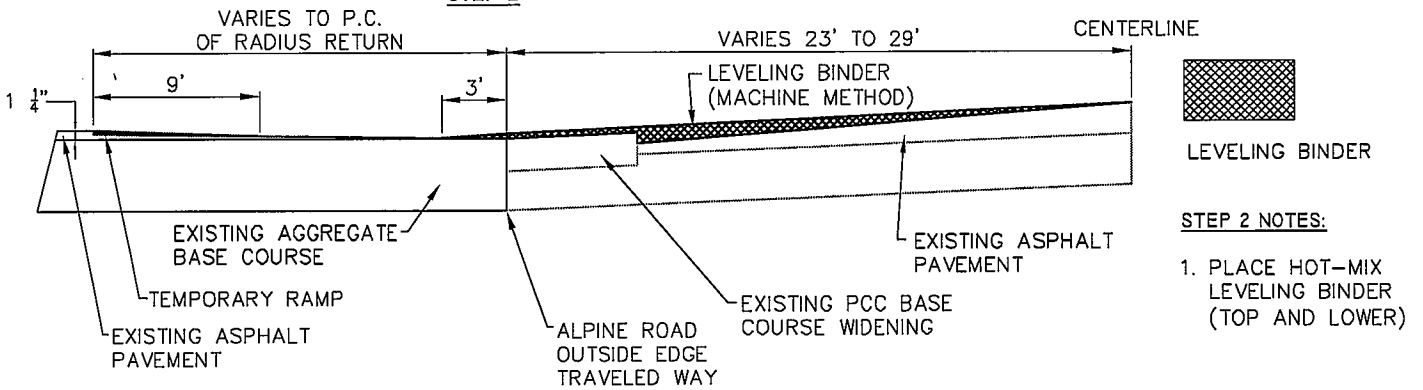
MIXTURE COMPOSITION TABLE ALPINE ROAD			
MIXTURE USES	SURFACE	TOP LEVELING BINDER	LOWER LEVELING BINDER
PG	SBS PG 64-28	SBS-PG 64-28	PG 58-22
DESIGN AIR VOIDS	4.0 AT N50	4.0 AT N50	4.0 AT N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 9.5	IL 9.5
FRICTION AGGREGATE	E	N/A	N/A
20 YEAR ESAL	2.6	2.6	2.6

ALPINE ROAD - SIDE ROAD - TAPER (NTS)
 (STA 39+23 TO STA 62+74)

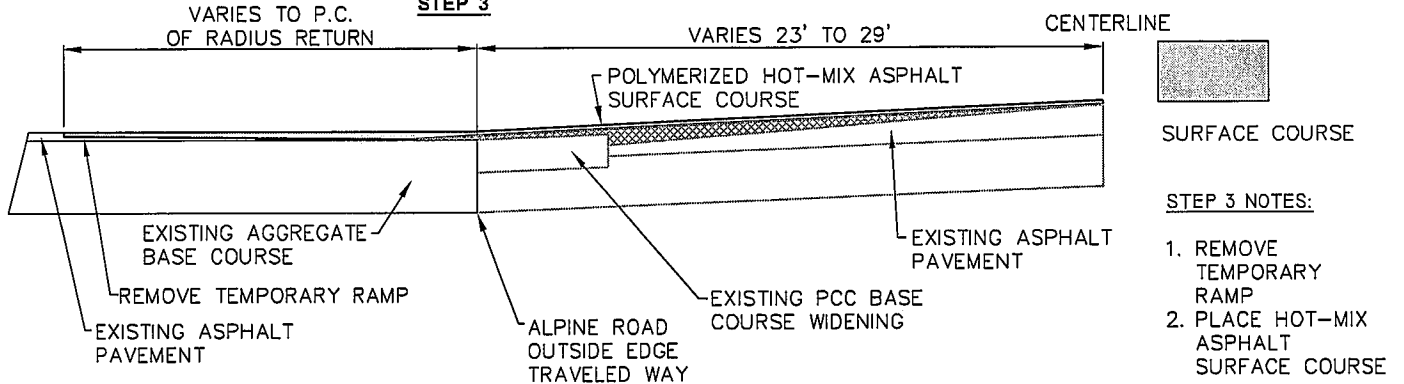
STEP 1



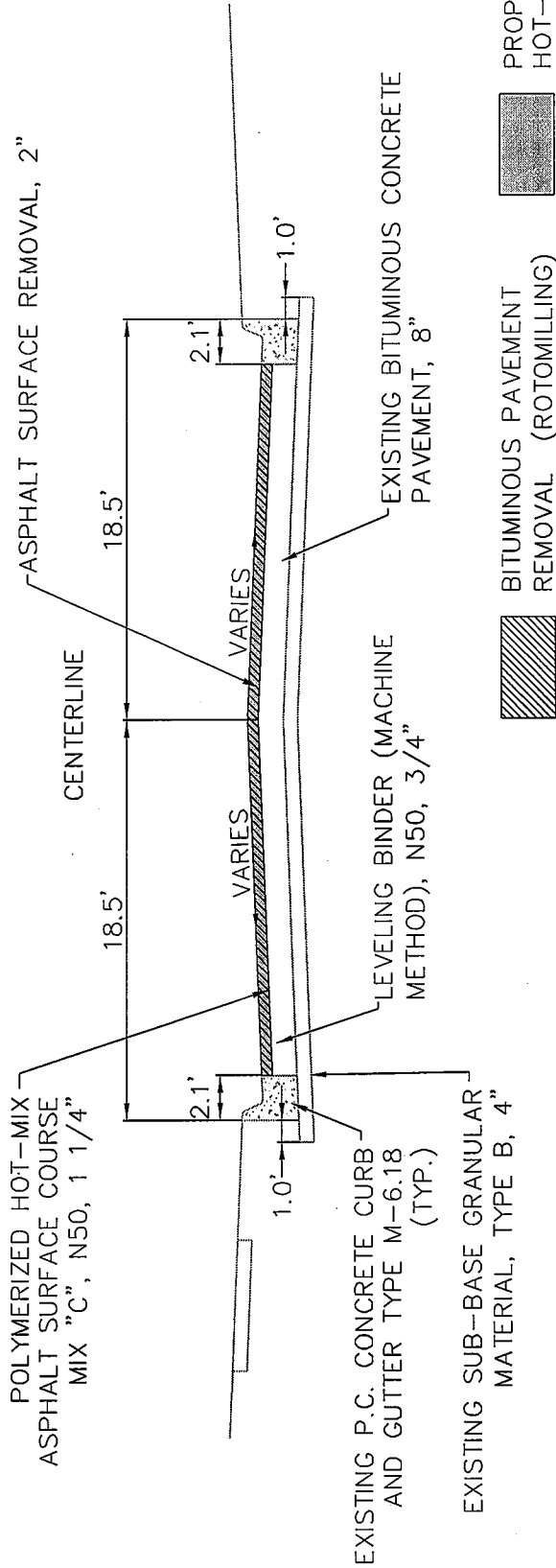
STEP 2



STEP 3



TYPICAL SECTIONS CENTRAL AVENUE



30

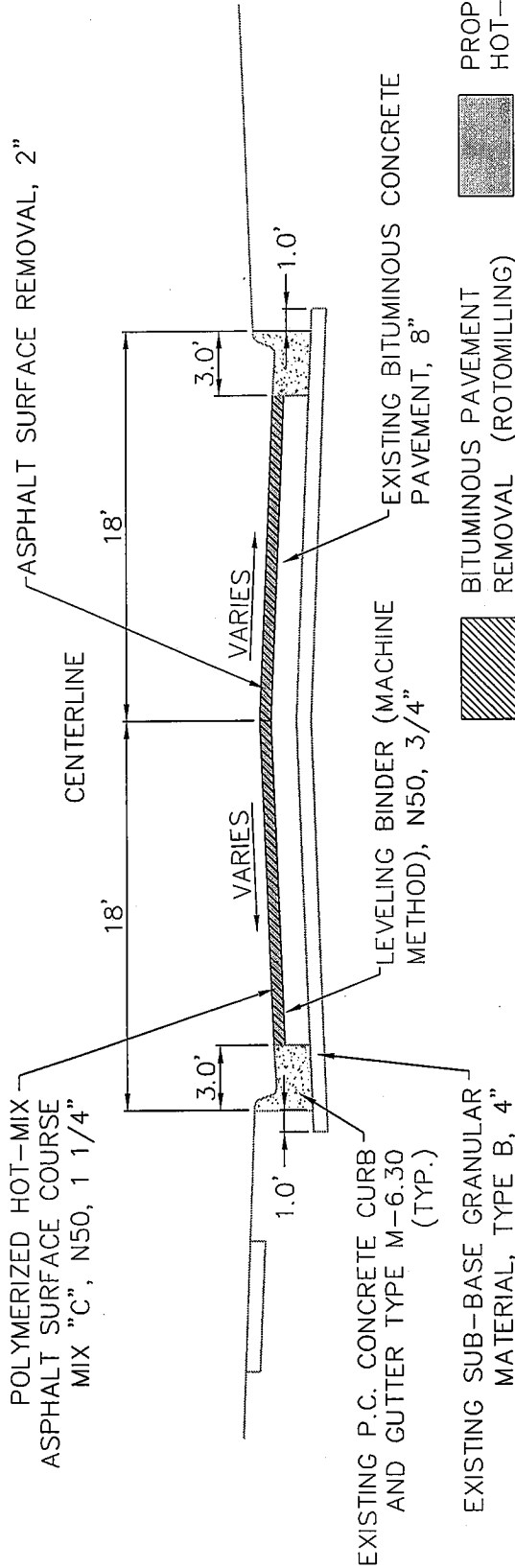
PROPOSED TYPICAL SECTION - CENTRAL AVENUE

STA: 10+94 - 31+85 N.T.S.

FAP 412 / FAU 5102 / FAU 5063
Section No. 09-00569-00-RS

MIXTURE COMPOSITION TABLES	
CENTRAL AVENUE (STA. 10+94 - 31+85)	
MIXTURE USES	SURFACE
PG	LEVELING BINDER PG 64-22
DESIGN AIR Voids	4.0 AT N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5
FRICTION AGGREGATE	N/A
20 YEAR ESAL	0.05

TYPICAL SECTION CENTRAL AVENUE



PROPOSED TYPICAL SECTION - CENTRAL AVENUE

STA: 31+85 - 47+85 N.T.S.
OMISSION STA 47+85 TO 48+66

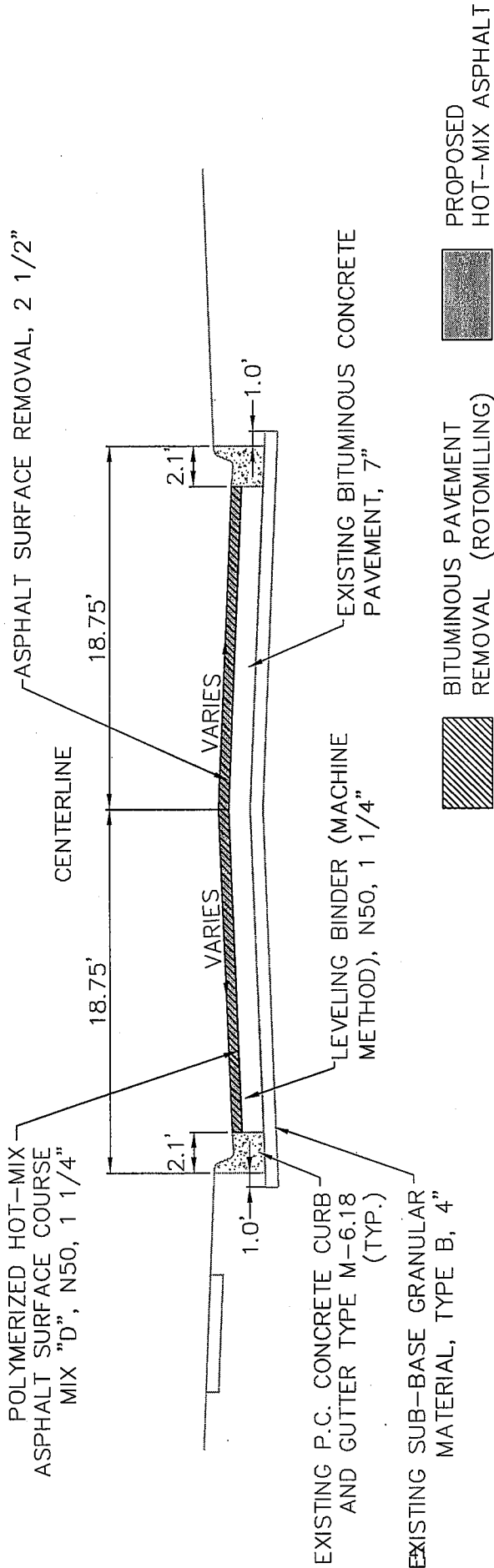
FAP 412 / FAU 5102 / FAU 5063
Section No. 09-00569-00-RS

MIXTURE COMPOSITION TABLES

CENTRAL AVENUE (STA. 31+85 - 47+85)

MIXTURE USES	SURFACE	LEVELING BINDER
PG	SBS PG 64-28	PG 64-22
DESIGN AIR Voids	4.0 AT N50	4.0 AT N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 9.5
FRICTION AGGREGATE	C	N/A
20 YEAR ESAL	0.18	0.18

TYPICAL SECTIONS CENTRAL AVENUE



PROPOSED TYPICAL SECTION - CENTRAL AVENUE

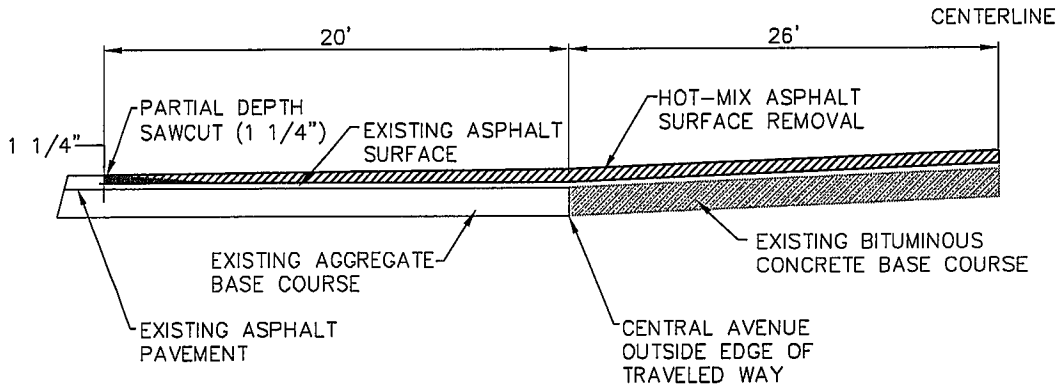
STA: 48+66 - 62+10

N.T.S.

MIXTURE COMPOSITION TABLES	
CENTRAL AVENUE (STA. 48+66 - 62+10)	
MIXTURE USES	SURFACE
PG	PG 64-22
DESIGN AIR Voids	4.0 AT N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5
FRICTION AGGREGATE	N/A
20 YEAR ESAL	0.25

CENTRAL AVENUE SIDE ROAD - TAPER (NTS)
 (STA 10+94 TO STA 62+10)

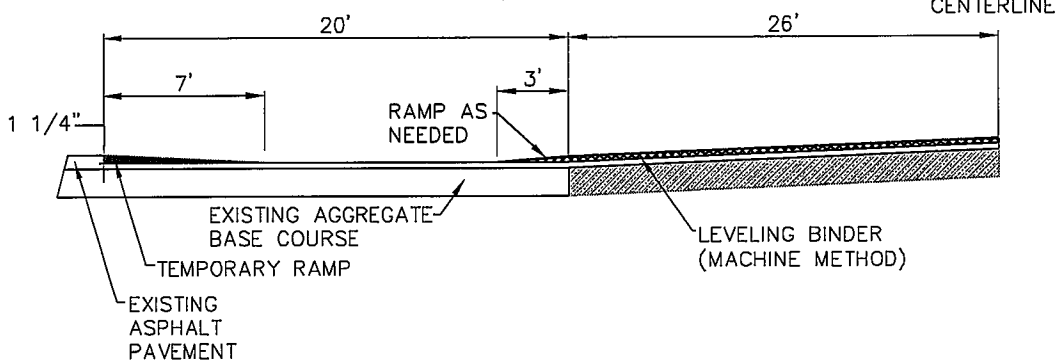
STEP 1



STEP 1 NOTES:

1. HOT-MIX ASPHALT SURFACE REMOVAL
2. PLACE TEMPORARY RAMP

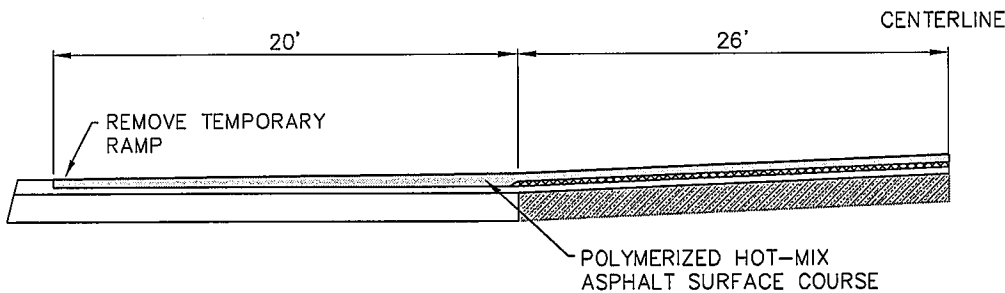
STEP 2



STEP 2 NOTES:

1. PLACE LEVELING BINDER (WHERE APPLICABLE)
2. PLACE TEMPORARY RAMP

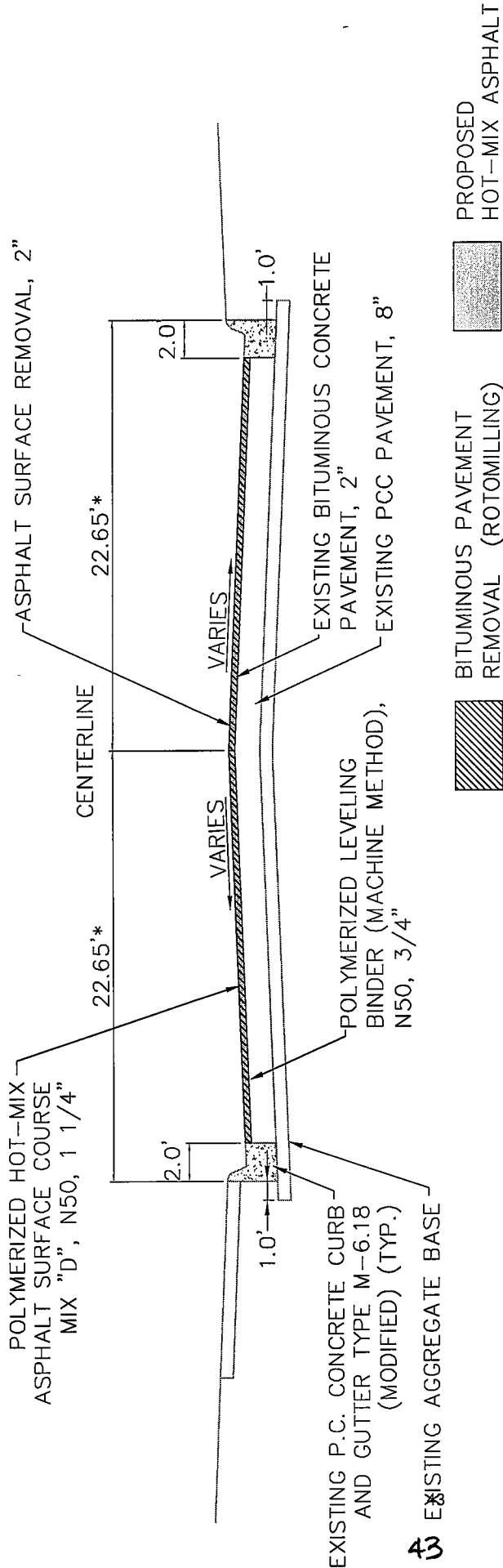
STEP 3



STEP 3 NOTES:

1. REMOVE TEMPORARY RAMP
2. PLACE POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE

TYPICAL SECTION WEST STATE STREET



PROPOSED TYPICAL SECTION - WEST STATE STREET

STA: 295+69 - 314+17 N.T.S.

*24.85' FROM STA: 306+90 - 314+17

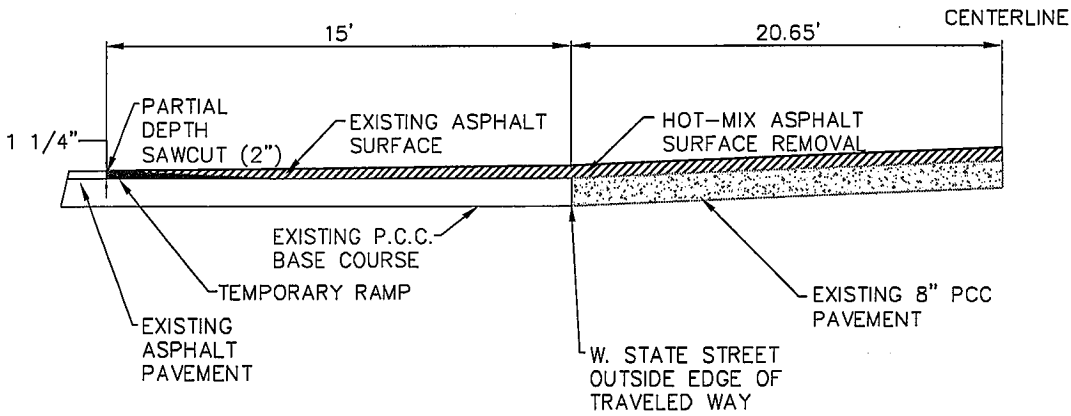
MIXTURE COMPOSITION TABLES

WEST STATE STREET (STA. 295+69 - 314+17)

MIXTURE USES	SURFACE	LEVELING BINDER
PG	PG 64-22	PG 64-22
DESIGN AIR Voids	4.0 AT N50	4.0 AT N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 9.5
FRICITION AGGREGATE	D	N/A
20 YEAR ESAL	0.7	0.7

WEST STATE STREET -SIDE ROAD - TAPER (NTS)
 (STA 295+69 TO STA 314+17)

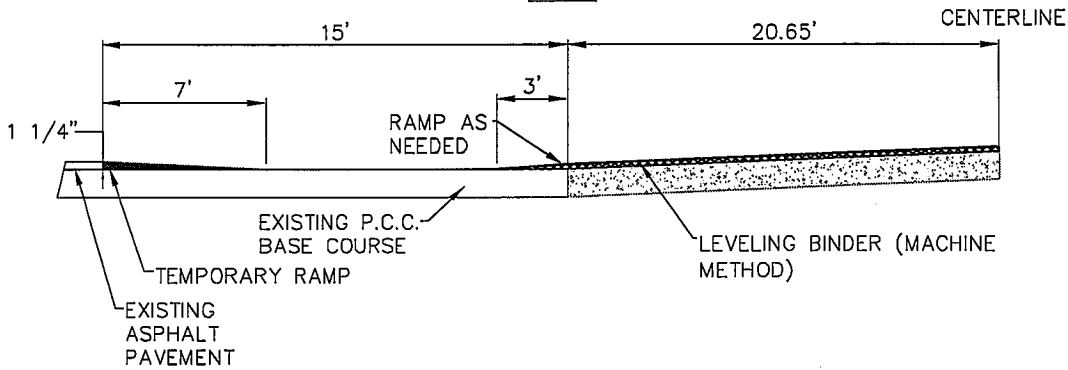
STEP 1



STEP 1 NOTES:

1. HOT-MIX ASPHALT SURFACE REMOVAL
2. PLACE TEMPORARY RAMP

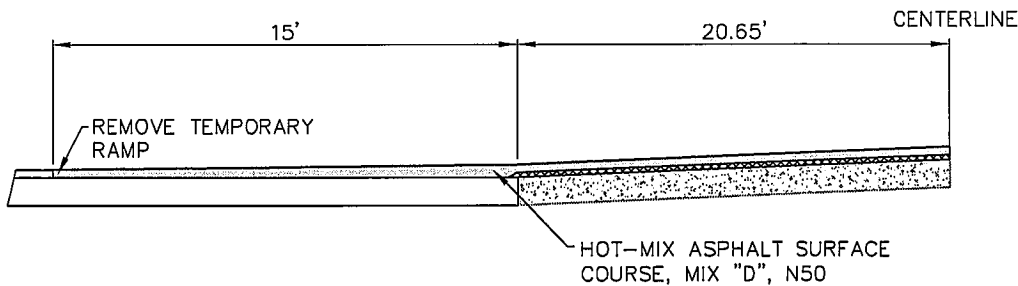
STEP 2



STEP 2 NOTES:

1. PLACE HOT-MIX LEVELING BINDER (WHERE APPLICABLE)
2. PLACE TEMPORARY RAMP

STEP 3



STEP 3 NOTES:

1. REMOVE TEMPORARY RAMP
2. PLACE POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE

STORM WATER POLLUTION PREVENTION PLAN

This written plan and the plan sheet included in the project plan set have been prepared to comply with the provisions of the NPDES Permit Number ILR10, issued by the Illinois Environmental Protection Agency for storm water discharges from Construction Site Activities. Storm water pollution prevention efforts for this project shall be completed in accordance with the requirements listed in the storm water pollution prevention plan, the erosion control plan sheet, the regulations of the City of Rockford, and requirements of NPDES Permit Number ILR10.

I. Site Description:

The following is a description of the project location:

In the City of Rockford on Alpine Road starting at approximately Morsay Drive and extending to approximately 200 feet south of Rural Avenue (Sta 39+23 – Sta 62+74)

The following is a description of the construction activity which is the subject of this plan:

This work shall consist of, but not limited to milling and overlaying of existing asphalt surface approximately 2350 L.F. and 4+ lanes wide, base course pavement patching, and sidewalk and curb and gutter removal and construction of new ADA accessible ramps.

The following is a description of the intended sequence of major activities which will disturb soils for major portions of the construction site, such as grubbing, excavation and grading:

1. Rotomill existing surface course.
2. Sawcut, remove, replace pavement base course for patching.
3. Remove sidewalk and curb and gutter for ADA accessible ramps.
4. Construct ADA accessible ramps.
5. Pave.
6. Restore vegetative and miscellaneous areas at ADA accessible ramps.

The total area of the construction site is estimated to be 6.0 acres.

The total area of the site that is estimated will be disturbed by excavation, grading or other activities is 3.2 acres.

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

- | | |
|-----------------------|------|
| • Existing conditions | 0.95 |
| • Proposed conditions | 0.95 |

The following is a description of the soil types found at the project site followed by information regarding their erosivity:

Per Winnebago county soil survey book, native soils are of the Griswold and Downs complex which consist mainly of sandy and silty loam. Cores taken of

existing roadbed have PCC and asphaltic base course on clayey sand and gravel subbase.

The following is a description of potentially erosive areas associated with this project:

The project is an overlay or resurfacing project with accessible ramp construction. Subgrade may be exposed in certain areas at patch locations and ADA accessible ramp construction areas.

The following is a description of soil disturbing activities, their locations, and their erosive factors (e.g. steepness of slopes, length of slopes, etc):

When the pavement is removed for patching and the existing sidewalk is removed for ADA accessible ramp construction, the exposed erosive soils could erode or silt into the existing inlets.

The following is a list of receiving water and the ultimate receiving water.

The overlay project will have basically 3 major drainage outfalls. For outfall A, storm water will be collected in a City of Rockford closed drainage system via inlets and discharged near the north end of the project into City of Rockford storm sewer and then to a drainage area through Reubin Aldeen Park approximately 1000' downstream by the Alpine Dam which discharges to Keith Creek and then westerly to the Rock River. For outfall B near the middle of the project, storm water will be collected in a City of Rockford closed drainage system via inlets and discharged northwesterly into a grass field which empties into Keith Creek approximately 500' downstream. For outfall C, storm water will be directly discharging into Keith Creek via inlets and City of Rockford storm sewer outfall and then westerly to the Rock River.

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

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

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. 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. 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

1. **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: subsurface drains and storm drain inlet protection.

The following Structural Practices will be used for this project:

- Storm Drain Inlet Protection Pipe Underdrains in Landscaping beds

Describe how the Structural Practices listed above will be utilized:

Rock socks are to be placed at each curb inlet and inlet sediment bags will be placed in all grated inlets. Curb inlets will also be protected with 2' trap formed by milling below existing PCC curb flag.

2. **Storm Water Management:** Provided below is a description of measures that will be installed during the construction process to control 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.

Road will be swept as needed.

Description of Storm Water Management Controls.

Rock socks are to be placed at storm inlets. Also City of Rockford storm water management standards will be followed.

3. **Other Controls:**

- a) **Material Delivery, Storage, and Use** – The following BMPs shall be implemented to help prevent discharges of construction materials during delivery, storage, and use:
 - All products delivered to the project site must be properly labeled.
 - Water tight shipping containers and/or semi trailers shall be used to store hand tools, small parts, and most construction materials that can be carried by hand, such as paint cans, solvents, and grease.
 - A storage/containment facility should be chosen for larger items such as drums and items shipped or stored on pallets. Such material is to be covered by a tin roof or large sheets of plastic to prevent precipitation from coming in contact with the products being stored.
 - Large items such as light stands, framing materials and lumber shall be stored in the open in a general storage area. Such material shall be elevated with wood blocks to minimize contact with storm water runoff.

- Spill clean-up materials, material safety data sheets, an inventory of materials, and emergency contact numbers shall be maintained and stored in one designated area and each Contractor is to inform his/her employees and the resident engineer of this location.
- b) Stockpile Management – BMPs shall be implemented to reduce or eliminate pollution of storm water from stockpiles of soil and paving materials such as but not limited to portland cement concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, aggregate sub base, and pre-mixed aggregate. The following BMPs may be considered:
- Perimeter Erosion Barrier
 - Temporary Seeding
 - Temporary Mulch
 - Temporary Ditch Checks
 - TRM

The contractor will provide the resident engineer with a written plan of the procedures (s)he will use on the project and how they will be maintained.

- c) Waste Disposal. No materials, including building materials, shall be discharged into Waters of the State, except as authorized by a Section 404 permit.
- d) The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.
- e) The contractor shall provide a written and graphic plan to the resident engineer identifying where each of the above areas will be located and how they are to be managed.

4. Approved State or Local Laws

The management practices, controls and provisions contained in this plan will be in accordance with City of Rockford specifications, which are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Illinois Urban Manual. 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 permit ILR10 incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

III. Maintenance:

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, erosion and sediment control measures and other protective measures identified in this plan. The resident engineer will provide maintenance guides to the contractor for the practices associated with this project.

Straw wattles and silt filter fabric bags in inlets shall be cleaned weekly and after every storm event of ½" rainfall or greater and replaced if found defective. Street shall be swept as directed by the resident engineer.

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. Such inspections shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall.

- A.** Disturbed areas, use areas (storage of materials, stockpiles, machine maintenance, fueling, etc.), shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Discharge locations or points that are accessible, shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off site sediment tracking.
- B.** Based on the results of the inspection, the description of potential pollutant sources identified in section I above and pollution prevention measures identified in section II above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within ½ hour to 1 week based on the urgency of the situation. The resident engineer will notify the contractor of the time required to implement such actions through the weekly inspection report.
- C.** A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with section IV(B) shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part VI. G of the general permit.
- D.** 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 complete and file an "Incidence of Noncompliance" (ION) report for the identified violation. The resident engineer shall use forms provided by the Illinois Environmental Protection Agency 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 noncompliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit.

The Incidence of Non-Compliance shall be mailed to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Compliance Assurance Section
1021 North Grand East
Post Office Box 19276
Springfield, Illinois 62794-9276

V. Non-Storm Water Discharges:

Except for flows from fire fighting activities, sources of non-storm water that is combined with storm water discharges associated with the industrial activity addressed in this plan must be described below. Appropriate pollution prevention measures, as described below, will be implemented for the non-storm water component(s) of the discharge.

- A. Spill Prevention and Control** – BMPs shall be implemented to contain and clean-up spills and prevent material discharges to the storm drain system. The contractor shall produce a written plan stating how his/her company will prevent, report, and clean up spills and provide a copy to all of his/her employees and the resident engineer. The contractor shall notify all of his/her employees on the proper protocol for reporting spills. The contractor shall notify the resident engineer of any spills immediately.
- B. Concrete Residuals and Washout Wastes** – The following BMPs shall be implemented to control residual concrete, concrete sediments, and rinse water:
 - Temporary Concrete Washout Facilities shall be constructed for rinsing out concrete trucks. Signs shall be installed directing concrete truck drivers where designated washout facilities are located.
 - The contractor shall have the location of temporary concrete washout facilities approved by the resident engineer.
 - All temporary concrete washout facilities are to be inspected by the contractor after each use and all spills must be reported to the resident engineer and cleaned up immediately.
 - Concrete waste solids/liquids shall be disposed of properly.
- C. Litter Management** – A proper number of dumpsters shall be provided on site to handle debris and litter associated with the project. The Contractor is responsible for ensuring his/her employees place all litter including marking paint cans, soda cans, food wrappers, wood lathe, marking ribbon, construction string, and all other construction related litter in the proper dumpsters.
- D. Vehicle and Equipment Cleaning** – Vehicles and equipment are to be cleaned in designated areas only, preferably off site.
- E. Vehicle and Equipment Fueling** – A variety of BMPs can be implemented during fueling of vehicles and equipment to prevent pollution. The contractor shall inform the resident engineer as to which BMPs will be used on the project. The contractor

shall inform the resident engineer how (s)he will be informing his/her employees of these BMPs (i.e. signs, training, etc.).

- Below are a few examples of these BMPs:
- Containment
- Spill Prevention and Control
- Use of Drip Pans and Absorbents
- Automatic Shut-Off Nozzles
- Topping Off Restrictions
- Leak Inspection and Repair

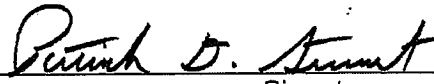
F. Vehicle and Equipment Maintenance – On site maintenance must be performed in accordance with all environmental laws such as proper storage and no dumping of old engine oil or other fluids on site.

VI. Failure to Comply:

Failure to comply with any provisions of this Storm Water Pollution Prevention Plan will result in the implementation of an Erosion and Sediment Control Deficiency Deduction against the contractor and/or penalties under the NPDES permit which could be passed onto the contractor.

I certify under penalty of law that this document and all attachments were prepared under my direct 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.

Patrick D. Stewart
Print Name


Signature

Project Manager
Title

10/15/09
Date

McClure Engineering Assoc. Inc.
Agency

**SWPPP
Contractor Certification Statement**

The Resident Engineer is to make copies of this form and every contractor and sub-contractor will be required to complete their own separate form.

This certification statement is part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with General NPDES Permit No. ILR10 issued by the Illinois Environmental Protection Agency.

FAP 412-Alpine Road (39+23-62+74)-LAPP

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR 10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification. I have read and understand all of the information and requirements stated in the Storm Water Pollution Prevention Plan for the above mentioned project. I have provided all documentation required to be in compliance with the ILR10 and Storm Water Pollution Prevention Plan and will provide timely updates to these documents as necessary.

Contractor

Sub-Contractor

Print Name

Title

Name of Firm

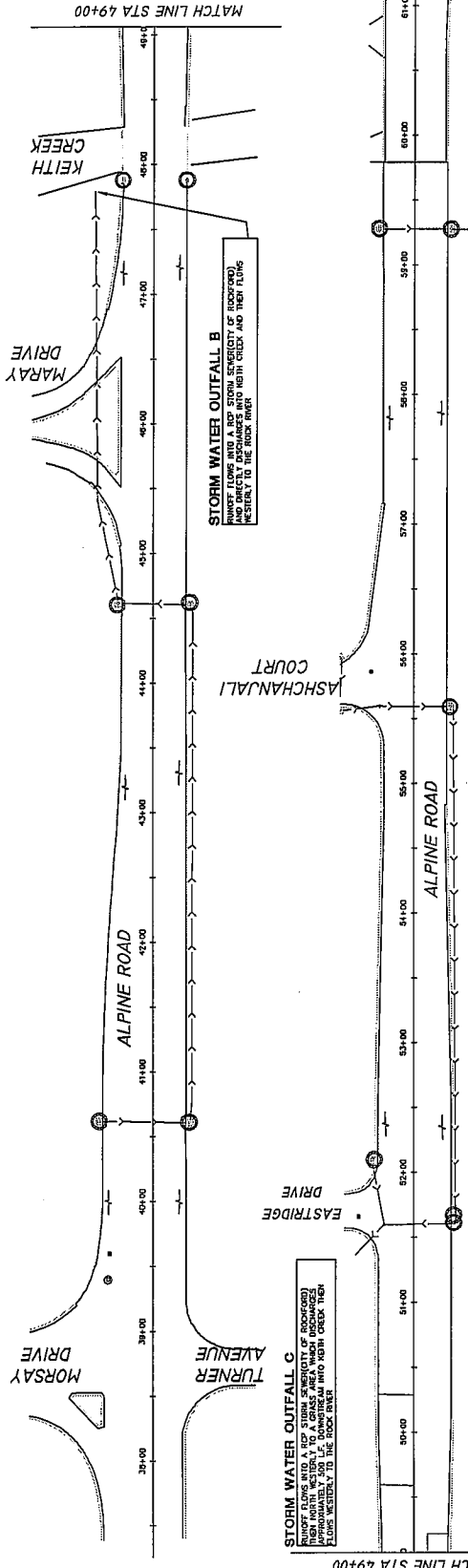
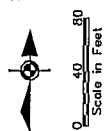
Street Address

Signature

Date

Telephone

City/State/ZIP

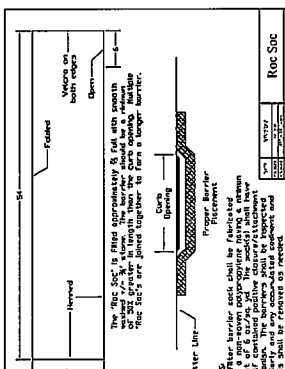
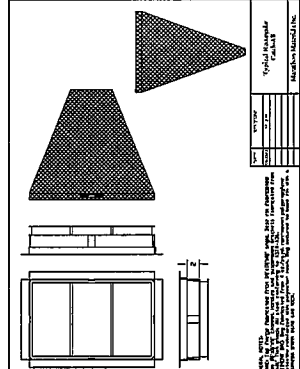
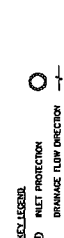


STORM WATER OUTFALL A
 RUNOFF FLOWS INTO A ROP FROM SEVERITY OF ROCKFORD STREET (FLOWING THROUGH CITY OF ROCKFORD FROM SOUTH AND WEST) AND INTO A ROP FROM SEVERITY OF ALPINE ROAD (FLOWING WEST) AND DIRECT DISCHARGES INTO NORTH CREEK FROM WESTERN TO THE ROCK RIVER

STORM WATER OUTFALL B
 RUNOFF FLOWS INTO A ROP FROM SEVERITY OF ROCKFORD AND INTO A ROP FROM SEVERITY OF ALPINE ROAD (FLOWING WEST) AND DIRECT DISCHARGES INTO NORTH CREEK AND THEN FLOWS WESTWARD TO THE ROCK RIVER

STORM WATER OUTFALL C
 RUNOFF FLOWS INTO A ROP FROM SEVERITY OF ROCKFORD AND INTO A ROP FROM SEVERITY OF ALPINE ROAD (FLOWING WEST) AND DIRECT DISCHARGES INTO NORTH CREEK FROM WESTERN TO THE ROCK RIVER

- GENERAL NOTE:**
1. SEE DIMENSIONS AND DETAILS FOR SIPS.
 2. LIMITS OF DISTURBANCE ARE FROM ROW TO ROW.



STORMWATER POLLUTION PREVENTION

1. THE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF THE DRAWING SHEETS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL BE REQUIRED TO OBTAIN A PERMIT FROM THE CITY OF ROCKFORD AND BECOME FAMILIAR WITH SUCH CONTENTS.
3. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS REQUIRED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. LOCAL RECORDS FOR MANUAL OF PRACTICE AS APPLICABLE. CONTRACTOR SHALL MAINTAIN LOCAL RECORDS FOR MANUAL OF PRACTICE AS APPLICABLE.
5. GENERAL CONTRACTOR SHALL REMOVE OR EXHIBIT THE TEMPORARY FENCING AND STORAGE AREA WITHIN 24 HOURS OF THE END OF EACH WORKING DAY.
6. ALL MATERIALS DROPPED, WASHED, OR TRANSPORTED FROM VEHICLES INTO ROADWAY OR INTO STORM DRAINAGE SHALL BE IMMEDIATELY CLEANED UP AND REMOVED FROM THE ROADWAY.
7. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRANSPORTED FROM VEHICLES INTO ROADWAY OR INTO STORM DRAINAGE SHALL BE IMMEDIATELY CLEANED UP AND REMOVED FROM THE ROADWAY.
8. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRANSPORTED FROM VEHICLES INTO ROADWAY OR INTO STORM DRAINAGE SHALL BE IMMEDIATELY CLEANED UP AND REMOVED FROM THE ROADWAY.
9. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THE INCLUDES THE PROVISION OF STORMWATER POLLUTION PREVENTION MEASURES TO BE MAINTAINED UNTIL FINAL PAVING FOR ROAD CONSTRUCTION.
10. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THE INCLUDES THE PROVISION OF STORMWATER POLLUTION PREVENTION MEASURES TO BE MAINTAINED UNTIL FINAL PAVING FOR ROAD CONSTRUCTION.
11. ALL PRESENT TRAFFIC OR FLOW OF AND ONTO ADJACENT PUBLIC ROADWAYS SHALL BE MAINTAINED.
12. BEST MANAGEMENT PRACTICES INDICATED BY THE DRAWING SHEETS SHALL BE MAINTAINED.

MAINTENANCE NOTES

- ALL BMP MEASURES SHOWN ON THIS STORM WATER POLLUTION PREVENTION MAP AND PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR THE PROJECT. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND WITHIN 24 HOURS OF THE END OF EACH WORKING DAY. ALL MEASURES SHALL BE REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
1. THE STORMWATER POLLUTION PREVENTION MEASURES SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF WEAR, DAMAGE, OR DETERIORATION.
 2. THE STORMWATER POLLUTION PREVENTION MEASURES SHALL BE MAINTAINED AS NECESSARY TO PREVENT EROSION, SEDIMENTATION, AND POLLUTION.
 3. THE CONSTRUCTION AREA ACCESS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRAFFIC OR FLOW OF AND ONTO ADJACENT PUBLIC ROADWAYS AND ROUTES OF TRAFFIC OUTSIDE WORK AREA.

SHEET NO. EX 1

EROSION & SEDIMENTATION CONTROL MAP
 ALPINE ROAD
 ROCKFORD, IL
 PROJECT NO. 09-00569-00-RS
 DATE: 08/14/2009



SCALE: 1" = 20'
 DRAWN BY: ASJ
 CHECKED BY: [blank]
 DATE: 8/14/2009

REVISIONS

NO.	DATE	DESCRIPTION

DATE

DATE

DATE

DATE

DATE

STORM WATER POLLUTION PREVENTION PLAN

This written plan and the plan sheet included in the project plan set have been prepared to comply with the provisions of the NPDES Permit Number ILR10, issued by the Illinois Environmental Protection Agency for storm water discharges from Construction Site Activities. Storm water pollution prevention efforts for this project shall be completed in accordance with the requirements listed in the storm water pollution prevention plan, the erosion control plan sheet, the regulations of the City of Rockford, and requirements of NPDES Permit Number ILR10.

I. Site Description:

The following is a description of the project location:

The project is in the City of Rockford on Central Avenue starting at approximately 75' north of Ogilby Ave. and extending north to the south side of Morgan St. (Sta 10+94 to Sta 62+10 with omission Sta 47+85 to Sta 48+66)

The following is a description of the construction activity which is the subject of this plan:

This roadway project shall consist, but not limited to, rotomilling of existing bituminous overlay approximately 5035 L.F., removing and patching subbase areas, removing sidewalk and curb for new ADA accessible ramps, paving with 2 courses (leveling binder and surface course), restriping, and restoring parkway at ADA curb ramps.

The following is a description of the intended sequence of major activities which will disturb soils for major portions of the construction site, such as grubbing, excavation and grading:

1. Rotomill existing overlay.
2. Remove and patch base course.
3. Remove sidewalk and curb for new ADA curb ramps.
4. Construct ADA curb ramps.
5. Pave.
6. Restore disturbed parkway at ADA curb ramps.

The total area of the construction site is estimated to be 5.5 acres.

The total area of the site that is estimated will be disturbed by excavation, grading or other activities is 2.8 acres.

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

- | | |
|-----------------------|------|
| • Existing conditions | 0.95 |
| • Proposed conditions | 0.95 |

The following is a description of the soil types found at the project site followed by information regarding their erosivity:

Borings taken of existing roadbed described subgrade as clayey sand to sand with gravel with some aggregate and PCC base course on top of subgrade.

The following is a description of potentially erosive areas associated with this project:

The project is an overlay project with ADA accessible ramp construction. Subgrade will be exposed in certain areas at patch locations and ramp construction areas.

The following is a description of soil disturbing activities, their locations, and their erosive factors (e.g. steepness of slopes, length of slopes, etc):

Existing base course will be excavated and patched in certain areas which will expose subgrade. Disturbance will also be done with the removal of the sidewalk and curb for ADA accessible curb ramps. Longitudinal slopes along the roadway vary with a max around 7% occurring between Ogilby Ave and Wisconsin Ave and Harding St. and Montague Ave.

The following is a list of receiving water and the ultimate receiving water.

The resurfacing project will basically have three major drainage outfalls. Storm water will discharge on the south end of the project to inlets which lead to a City of Rockford 15" RCP storm sewer at the intersection of Ogilby Road and Central Ave. then easterly through City of Rockford storm sewer approximately 0.5 miles to the Rock River. Storm water will also discharge easterly into City of Rockford Storm sewers (an RCP- 350' north of Wisconsin Ave. and 42" RCP-200' north of Domino Ave) which head to a 500 yr. flood plain low lying area about 500' east then approximately 1.0 miles southeasterly to the Rock River.

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

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

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. 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. 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

1. **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: subsurface drains and storm drain inlet protection.

The following Structural Practices will be used for this project:

- Storm Drain Inlet Protection Pipe Underdrains in Landscaping beds

Describe how the Structural Practices listed above will be utilized:

Rock socks are to be placed at each curb inlet. Curb inlets will also be protected with 2" trap formed by milling below PCC curb flag.

2. **Storm Water Management:** Provided below is a description of measures that will be installed during the construction process to control 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.

Silt filter fabric sacks will be placed at storm inlets. Road area will be swept as needed.

Description of Storm Water Management Controls.

Silt filter fabric sacks will be cleaned as needed and required. Also City of Rockford storm water management standards will be followed.

3. **Other Controls:**

- a) **Material Delivery, Storage, and Use** – The following BMPs shall be implemented to help prevent discharges of construction materials during delivery, storage, and use:
 - All products delivered to the project site must be properly labeled.
 - Water tight shipping containers and/or semi trailers shall be used to store hand tools, small parts, and most construction materials that can be carried by hand, such as paint cans, solvents, and grease.
 - A storage/containment facility should be chosen for larger items such as drums and items shipped or stored on pallets. Such material is to be covered by a tin roof or large sheets of plastic to

prevent precipitation from coming in contact with the products being stored.

- Large items such as light stands, framing materials and lumber shall be stored in the open in a general storage area. Such material shall be elevated with wood blocks to minimize contact with storm water runoff.
- Spill clean-up materials, material safety data sheets, an inventory of materials, and emergency contact numbers shall be maintained and stored in one designated area and each Contractor is to inform his/her employees and the resident engineer of this location.

b) Stockpile Management – BMPs shall be implemented to reduce or eliminate pollution of storm water from stockpiles of soil and paving materials such as but not limited to portland cement concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, aggregate sub base, and pre-mixed aggregate. The following BMPs may be considered:

- Perimeter Erosion Barrier
- Temporary Seeding
- Temporary Mulch
- Temporary Ditch Checks
- TRM

The contractor will provide the resident engineer with a written plan of the procedures (s)he will use on the project and how they will be maintained.

- c) Waste Disposal. No materials, including building materials, shall be discharged into Waters of the State, except as authorized by a Section 404 permit.
- d) The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.
- e) The contractor shall provide a written and graphic plan to the resident engineer identifying where each of the above areas will be located and how they are to be managed.

4. Approved State or Local Laws

The management practices, controls and provisions contained in this plan will be in accordance with City of Rockford specifications, which are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Illinois Urban Manual. 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 permit ILR10 incorporated by reference and

are enforceable under this permit even if they are not specifically included in the plan.

III. Maintenance:

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, erosion and sediment control measures and other protective measures identified in this plan. The resident engineer will provide maintenance guides to the contractor for the practices associated with this project.

Straw wattles and silt filter fabric in inlets shall be cleaned weekly and after every storm event of ½" rainfall or greater and replaced if found defective. Street shall be swept as directed by the resident engineer.

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. Such inspections shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall.

- A.** Disturbed areas, use areas (storage of materials, stockpiles, machine maintenance, fueling, etc.), shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Discharge locations or points that are accessible, shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off site sediment tracking.
- B.** Based on the results of the inspection, the description of potential pollutant sources identified in section I above and pollution prevention measures identified in section II above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within ½ hour to 1 week based on the urgency of the situation. The resident engineer will notify the contractor of the time required to implement such actions through the weekly inspection report.
- C.** A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with section IV(B) shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part VI. G of the general permit.
- D.** 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 complete and file an "Incidence of Noncompliance" (ION) report for the identified violation. The resident engineer shall use forms provided by the Illinois Environmental Protection

Agency 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 noncompliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit.

The Incidence of Non-Compliance shall be mailed to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Compliance Assurance Section
1021 North Grand East
Post Office Box 19276
Springfield, Illinois 62794-9276

V. Non-Storm Water Discharges:

Except for flows from fire fighting activities, sources of non-storm water that is combined with storm water discharges associated with the industrial activity addressed in this plan must be described below. Appropriate pollution prevention measures, as described below, will be implemented for the non-storm water component(s) of the discharge.

- A. Spill Prevention and Control – BMPs shall be implemented to contain and clean-up spills and prevent material discharges to the storm drain system. The contractor shall produce a written plan stating how his/her company will prevent, report, and clean up spills and provide a copy to all of his/her employees and the resident engineer. The contractor shall notify all of his/her employees on the proper protocol for reporting spills. The contractor shall notify the resident engineer of any spills immediately.
- B. Concrete Residuals and Washout Wastes – The following BMPs shall be implemented to control residual concrete, concrete sediments, and rinse water:
 - Temporary Concrete Washout Facilities shall be constructed for rinsing out concrete trucks. Signs shall be installed directing concrete truck drivers where designated washout facilities are located.
 - The contractor shall have the location of temporary concrete washout facilities approved by the resident engineer.
 - All temporary concrete washout facilities are to be inspected by the contractor after each use and all spills must be reported to the resident engineer and cleaned up immediately.
 - Concrete waste solids/liquids shall be disposed of properly.
- C. Litter Management – A proper number of dumpsters shall be provided on site to handle debris and litter associated with the project. The Contractor is responsible for ensuring his/her employees place all litter including marking paint cans, soda cans, food wrappers, wood lathe, marking ribbon, construction string, and all other construction related litter in the proper dumpsters.

- D. Vehicle and Equipment Cleaning – Vehicles and equipment are to be cleaned in designated areas only, preferably off site.
- E. Vehicle and Equipment Fueling – A variety of BMPs can be implemented during fueling of vehicles and equipment to prevent pollution. The contractor shall inform the resident engineer as to which BMPs will be used on the project. The contractor shall inform the resident engineer how (s)he will be informing his/her employees of these BMPs (i.e. signs, training, etc.).
- Below are a few examples of these BMPs:
 - Containment
 - Spill Prevention and Control
 - Use of Drip Pans and Absorbents
 - Automatic Shut-Off Nozzles
 - Topping Off Restrictions
 - Leak Inspection and Repair
- F. Vehicle and Equipment Maintenance – On site maintenance must be performed in accordance with all environmental laws such as proper storage and no dumping of old engine oil or other fluids on site.

VI. Failure to Comply:

Failure to comply with any provisions of this Storm Water Pollution Prevention Plan will result in the implementation of an Erosion and Sediment Control Deficiency Deduction against the contractor and/or penalties under the NPDES permit which could be passed onto the contractor.

I certify under penalty of law that this document and all attachments were prepared under my direct 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.

Patrick D. Stewart

Print Name



Signature

Project Manager

Title

10/15/09

Date

McClure Engineering Assoc. Inc.

Agency

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Contractor Certification Statement**

The Resident Engineer is to make copies of this form and every contractor and sub-contractor will be required to complete their own separate form.

This certification statement is part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with General NPDES Permit No. ILR10 issued by the Illinois Environmental Protection Agency.

FAU ROUTE 5102-CENTRAL AVENUE LAPP

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR 10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification. I have read and understand all of the information and requirements stated in the Storm Water Pollution Prevention Plan for the above mentioned project. I have provided all documentation required to be in compliance with the ILR10 and Storm Water Pollution Prevention Plan and will provide timely updates to these documents as necessary.

Contractor

Sub-Contractor

Print Name

Signature

Title

Date

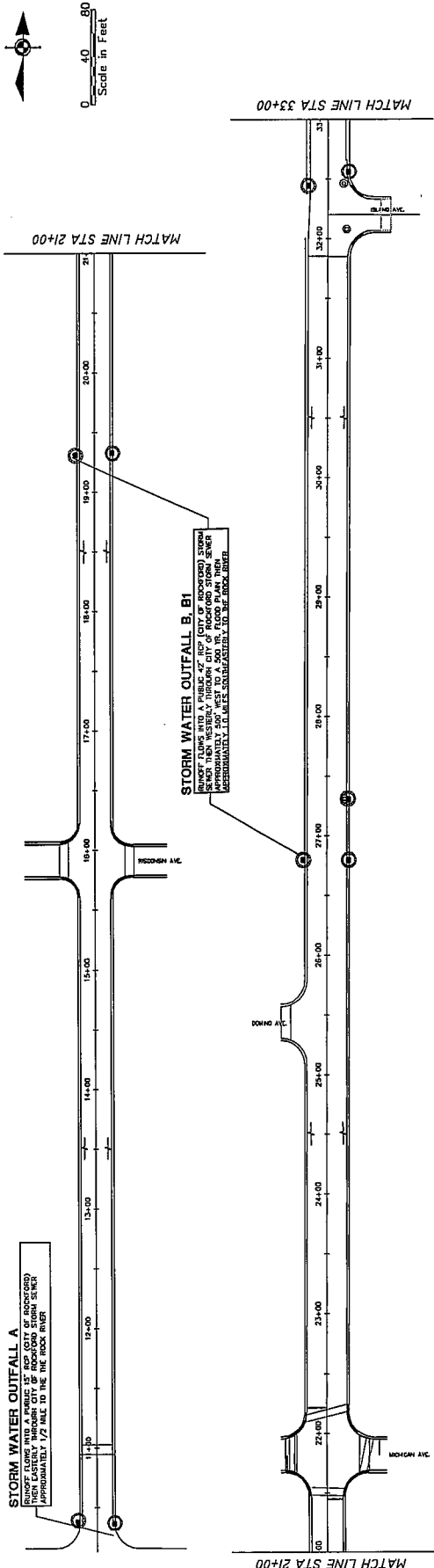
Name of Firm

Telephone

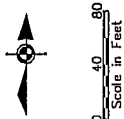
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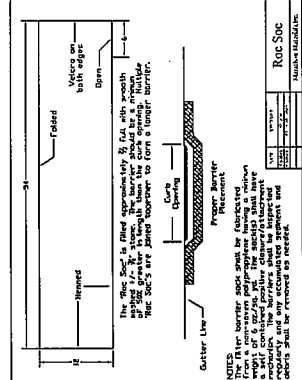
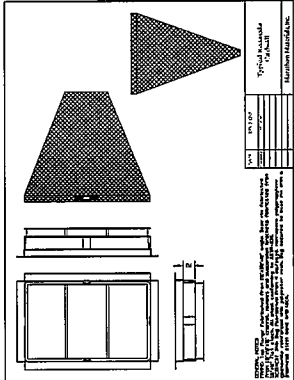
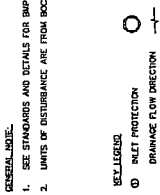
STORM WATER OUTFALL A
 RUNOFF FLOWS INTO A PUBLIC 15" RCP CITY OF ROCHESTER STORM SEWER APPROXIMATELY 1/2 MILE TO THE ROCK RIVER.



STORM WATER OUTFALL B, BI
 RUNOFF FLOWS INTO A PUBLIC 15" RCP CITY OF ROCHESTER STORM SEWER APPROXIMATELY 1/2 MILE TO THE ROCK RIVER.



- GENERAL NOTE:**
1. SEE STANDARDS AND DETAILS FOR SIGNS
 2. UNITS OF DISTURBANCE ARE FROM BGC TO BGC.

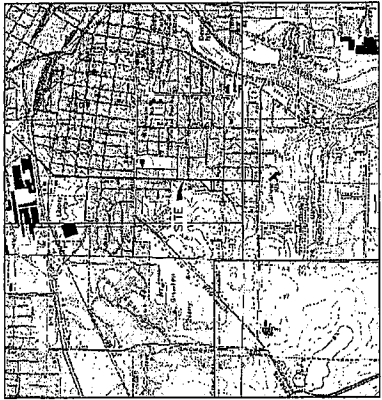


- STORMWATER POLLUTION PREVENTION**
1. THE ENGINEER'S POLLUTION PREVENTION PLAN IS COMPOSED OF THE FOLLOWING:
 - a. SPECIFICATIONS AND THE PERMITS AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
 - b. A GENERAL DESCRIPTION OF THE PROJECT AND THE POLLUTION PREVENTION PLAN.
 - c. GENERAL PERMITS AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
 - d. A GENERAL DESCRIPTION OF THE STORM WATER POLLUTION PREVENTION PLAN, INCLUDING EIA NOTES.
 - e. A GENERAL DESCRIPTION OF THE STORM WATER POLLUTION PREVENTION PLAN, INCLUDING EIA NOTES.
 2. THE BEST MANAGEMENT PRACTICES (BMPs) AND CONTROL MEASURES AS REQUIRED BY THE SPECIFICATIONS AND THE PERMITS SHALL BE INSTALLED AS DETAILED BY THE SPECIFICATIONS AND THE PERMITS.
 3. THE BEST MANAGEMENT PRACTICES (BMPs) AND CONTROL MEASURES SHALL BE INSTALLED AS DETAILED BY THE SPECIFICATIONS AND THE PERMITS.
 4. BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS SHALL COMPLY TO FEDERAL, STATE, OR LOCAL REGULATIONS, AND SHALL BE MAINTAINED AND MONITORED AS DETAILED BY THE SPECIFICATIONS AND THE PERMITS.
 5. GENERAL CONTRACTORS SHALL OBTAIN OR SUBMIT THE NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
 6. ALL WASH WATER (CONCRETE, TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE CONTAINED, STORED, AND TRANSPORTED TO AN APPROPRIATE DISPOSAL SITE.
 7. ALL OIL AND GREASE, SOLIDS, AND OTHER HAZARDOUS MATERIALS AND FLAMMABLE LIQUIDS SHALL BE CONTAINED, STORED, AND TRANSPORTED TO AN APPROPRIATE DISPOSAL SITE.
 8. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAY OR INTO WATERWAYS SHALL BE IMMEDIATELY CLEANED UP AND REMOVED FROM THE PROJECT AREA.
 9. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT THAT MAY ACCUMULATE AT ANY TIME DURING THE PROJECT.
 10. ALL OIL AND GREASE, SOLIDS, AND OTHER HAZARDOUS MATERIALS AND FLAMMABLE LIQUIDS SHALL BE CONTAINED, STORED, AND TRANSPORTED TO AN APPROPRIATE DISPOSAL SITE.
 11. ALL OIL AND GREASE, SOLIDS, AND OTHER HAZARDOUS MATERIALS AND FLAMMABLE LIQUIDS SHALL BE CONTAINED, STORED, AND TRANSPORTED TO AN APPROPRIATE DISPOSAL SITE.
 12. GRASSES SHALL BE REINSTALLED AND MAINTAINED FOR ALL PROPOSED EXCAVATIONS UNTIL FINAL GRASS HAS BEEN ESTABLISHED.

MAINTENANCE NOTES

ALL BGP MEASURES STATED ON THIS STORM WATER POLLUTION PREVENTION MAP AND SPECIFICATIONS SHALL BE MAINTAINED THROUGHOUT THE PROJECT AND THROUGHOUT THE ROADWAY PROJECT. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE PROJECT AND THROUGHOUT THE ROADWAY PROJECT. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE PROJECT AND THROUGHOUT THE ROADWAY PROJECT.

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2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE PROJECT AND THROUGHOUT THE ROADWAY PROJECT.
3. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE PROJECT AND THROUGHOUT THE ROADWAY PROJECT.
4. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE PROJECT AND THROUGHOUT THE ROADWAY PROJECT.
5. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE PROJECT AND THROUGHOUT THE ROADWAY PROJECT.



EROSION & SEDIMENTATION CONTROL MAP
 S CENTRAL AVE LAPP
 FILE # 109-33X-CENTRAL-HSSTATE LAPP/MS/MS/D/MS/MS/CAPITAL SWP/0106

SHEET NO. **EX 2**

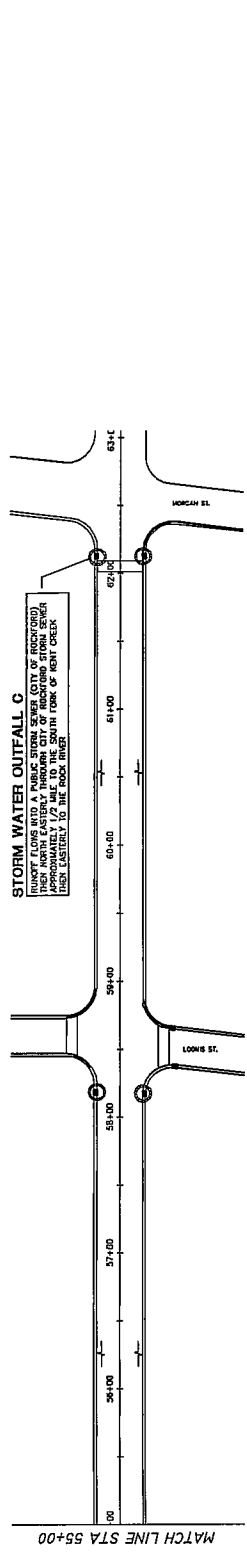
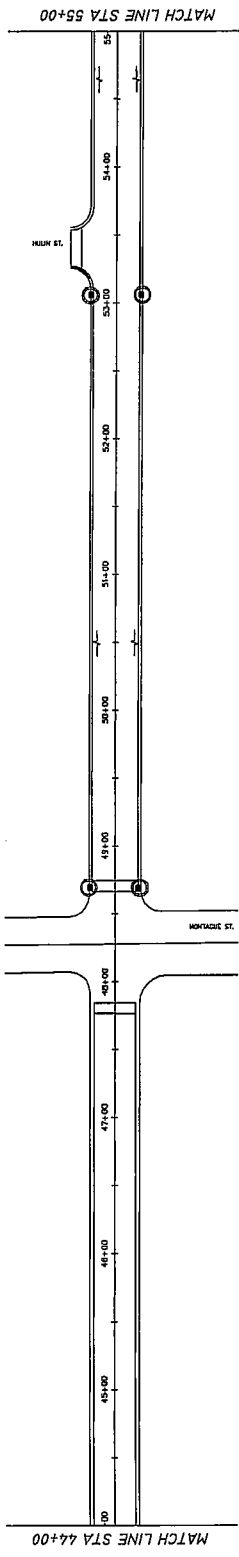
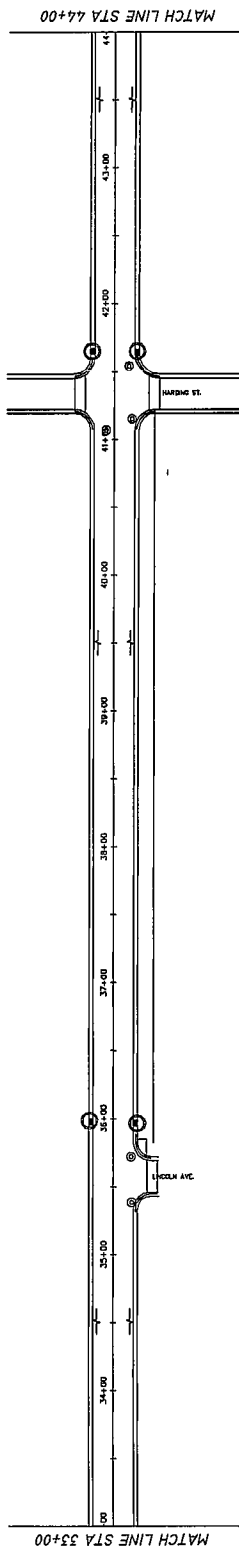
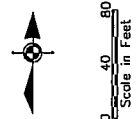
ROCHESTER, L.
 JOB # 03-18-09-03X



SCALE	1" = 30'
DATE	
DESIGNED BY	
DATE	6/21/2006
BY	

REVISIONS	DATE
NO.	
BY	
DATE	

SHEET REVIEW	DATE
PROJECT	



STORM WATER OUTFALL C
 THIS OUTFALL IS THE EAST END OF THE OUTFALL
 WHICH ENTERS EASTWARD THROUGH CITY OF HOUSTON STORM SEWER
 APPROXIMATELY 1/2 MILE TO THE SOUTH FORK OF BENT CREEK
 AND DISCHARGES TO THE BENT CREEK.

GENERAL NOTE:

1. SEE STANDARDS AND DETAILS FOR BMPs.
2. LIMITS OF DISTURBANCE ARE FROM BOC TO BOC.

MAINTENANCE NOTES

ALL BMP MEASURES STATED ON THIS STORM WATER POLLUTION PREVENTION PLAN AND PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL AND LOWER THAN THE DESIGN LIFE OF THE PROJECT. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS THROUGHOUT THE CONSTRUCTION PERIOD. THE FOLLOWING MAINTENANCE PROCEDURES SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING:

1. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS THEM FROM BEING BLOWN AWAY OR WASHED AWAY ONTO ADJACENT PUBLIC ROADS.
2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS THEM FROM BEING BLOWN AWAY OR WASHED AWAY ONTO ADJACENT PUBLIC ROADS.
3. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS THEM FROM BEING BLOWN AWAY OR WASHED AWAY ONTO ADJACENT PUBLIC ROADS.
4. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS THEM FROM BEING BLOWN AWAY OR WASHED AWAY ONTO ADJACENT PUBLIC ROADS.
5. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS THEM FROM BEING BLOWN AWAY OR WASHED AWAY ONTO ADJACENT PUBLIC ROADS.

SHEET NO.
EX 3

EROSION & SEDIMENTATION CONTROL MAP
 CENTRAL AVE LAPP

McClure
 ENGINEERS ARCHITECTS INC.
 1100 WEST 17TH STREET, SUITE 100
 HOUSTON, TEXAS 77058
 PHONE: 713.865.1100
 FAX: 713.865.1101
 WWW.MCCLURE.COM
 PROJECT NO. 09-00569-00-RS
 DATE: 07/2009

SCALE	1" = 30'
DRAWN BY	MF
CHECKED BY	
DATE	6/7/2009

NO.	REVISIONS	DATE

NO.	REVISIONS	DATE

NO.	REVISIONS	DATE

STORM WATER POLLUTION PREVENTION PLAN

This written plan and the plan sheet included in the project plan set have been prepared to comply with the provisions of the NPDES Permit Number ILR10, issued by the Illinois Environmental Protection Agency for storm water discharges from Construction Site Activities. Storm water pollution prevention efforts for this project shall be completed in accordance with the requirements listed in the storm water pollution prevention plan, the erosion control plan sheet, the regulations of the City of Rockford, and requirements of NPDES Permit Number ILR10.

I. Site Description:

The following is a description of the project location:

The project is in the City of Rockford on West State Street starting just east of Kilburn Ave. and extending east to just west of Church St. (Sta 295+69 to Sta 314+17)

The following is a description of the construction activity which is the subject of this plan:

This roadway project shall consist, but not limited to, rotomilling of existing bituminous overlay approximately 1848 L.F., removing and patching subbase areas, removing sidewalk and curb for new ADA accessible ramps, paving with 2 courses (leveling binder and surface course), restriping, and restoring parkway at ADA curb ramps.

The following is a description of the intended sequence of major activities which will disturb soils for major portions of the construction site, such as grubbing, excavation and grading:

1. Rotomill existing overlay.
2. Remove and patch base course.
3. Remove sidewalk and curb at ADA curb ramps.
4. Construct ADA curb ramps.
5. Pave.
6. Restore disturbed parkway at ADA curb ramps.

The total area of the construction site is estimated to be 1.95 acres.

The total area of the site that is estimated will be disturbed by excavation, grading or other activities is 1.1 acres.

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

- | | |
|-----------------------|------|
| • Existing conditions | 0.95 |
| • Proposed conditions | 0.95 |

The following is a description of the soil types found at the project site followed by information regarding their erosivity:

Borings taken of existing roadbed described subgrade as clayey sand to sand with gravel with some aggregate and PCC base course on top of subgrade.

The following is a description of potentially erosive areas associated with this project:

The project is a resurfacing project with accessible ramp construction. Subgrade will be exposed in certain areas at patch locations and ramp construction areas.

The following is a description of soil disturbing activities, their locations, and their erosive factors (e.g. steepness of slopes, length of slopes, etc):

Existing base course will be excavated and patched in certain areas which will expose subgrade. Disturbance will also be done with the removal of the sidewalk and curb for ADA accessible curb ramps. Longitudinal slopes along the roadway vary with a max around 2%.

The following is a list of receiving water and the ultimate receiving water.

The resurfacing project will basically have three major drainage outfalls. Storm water will discharge

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

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

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. 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. 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

1. **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: subsurface drains and storm drain inlet protection.

The following Structural Practices will be used for this project:

- Storm Drain Inlet Protection Pipe Underdrains in Landscaping beds

Describe how the Structural Practices listed above will be utilized:

Rock socks are to be placed at each curb inlet opened to be adjusted. Curb inlets will be protected with 2" trap formed by milling below flag also.

2. **Storm Water Management:** Provided below is a description of measures that will be installed during the construction process to control 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.

Silt filter fabric sacks will be placed at storm inlets. Road area will be swept as needed.

Description of Storm Water Management Controls.

Silt filter fabric sacks will be cleaned as needed and required. Also City of Rockford storm water management standards will be followed.

3. **Other Controls:**

- a) **Material Delivery, Storage, and Use** – The following BMPs shall be implemented to help prevent discharges of construction materials during delivery, storage, and use:
 - All products delivered to the project site must be properly labeled.
 - Water tight shipping containers and/or semi trailers shall be used to store hand tools, small parts, and most construction materials that can be carried by hand, such as paint cans, solvents, and grease.
 - A storage/containment facility should be chosen for larger items such as drums and items shipped or stored on pallets. Such material is to be covered by a tin roof or large sheets of plastic to prevent precipitation from coming in contact with the products being stored.
 - Large items such as light stands, framing materials and lumber shall be stored in the open in a general storage area. Such

material shall be elevated with wood blocks to minimize contact with storm water runoff.

- Spill clean-up materials, material safety data sheets, an inventory of materials, and emergency contact numbers shall be maintained and stored in one designated area and each Contractor is to inform his/her employees and the resident engineer of this location.

b) Stockpile Management – BMPs shall be implemented to reduce or eliminate pollution of storm water from stockpiles of soil and paving materials such as but not limited to portland cement concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, aggregate sub base, and pre-mixed aggregate. The following BMPs may be considered:

- Perimeter Erosion Barrier
- Temporary Seeding
- Temporary Mulch
- Temporary Ditch Checks
- TRM

The contractor will provide the resident engineer with a written plan of the procedures (s)he will use on the project and how they will be maintained.

- c) Waste Disposal. No materials, including building materials, shall be discharged into Waters of the State, except as authorized by a Section 404 permit.
- d) The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.
- e) The contractor shall provide a written and graphic plan to the resident engineer identifying where each of the above areas will be located and how they are to be managed.

4. Approved State or Local Laws

The management practices, controls and provisions contained in this plan will be in accordance with City of Rockford specifications, which are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Illinois Urban Manual. 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 permit ILR10 incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

III. Maintenance:

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, erosion and sediment control measures and other protective measures identified in this plan. The resident engineer will provide maintenance guides to the contractor for the practices associated with this project.

Straw waddles and silt filter fabric in inlets shall be cleaned weekly and after every storm event of ½" rainfall or greater and replaced if found defective. Street shall be swept as directed by the resident engineer.

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. Such inspections shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall.

- A. Disturbed areas, use areas (storage of materials, stockpiles, machine maintenance, fueling, etc.), shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Discharge locations or points that are accessible, shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off site sediment tracking.
- B. Based on the results of the inspection, the description of potential pollutant sources identified in section I above and pollution prevention measures identified in section II above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within ½ hour to 1 week based on the urgency of the situation. The resident engineer will notify the contractor of the time required to implement such actions through the weekly inspection report.
- C. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with section IV(B) shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part VI. G of the general permit.
- D. 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 complete and file an "Incidence of Noncompliance" (ION) report for the identified violation. The resident engineer shall use forms provided by the Illinois Environmental Protection Agency 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 noncompliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit.

The Incidence of Non-Compliance shall be mailed to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Compliance Assurance Section
1021 North Grand East
Post Office Box 19276
Springfield, Illinois 62794-9276

V. Non-Storm Water Discharges:

Except for flows from fire fighting activities, sources of non-storm water that is combined with storm water discharges associated with the industrial activity addressed in this plan must be described below. Appropriate pollution prevention measures, as described below, will be implemented for the non-storm water component(s) of the discharge.

- A. Spill Prevention and Control –** BMPs shall be implemented to contain and clean-up spills and prevent material discharges to the storm drain system. The contractor shall produce a written plan stating how his/her company will prevent, report, and clean up spills and provide a copy to all of his/her employees and the resident engineer. The contractor shall notify all of his/her employees on the proper protocol for reporting spills. The contractor shall notify the resident engineer of any spills immediately.
- B. Concrete Residuals and Washout Wastes –** The following BMPs shall be implemented to control residual concrete, concrete sediments, and rinse water:
- Temporary Concrete Washout Facilities shall be constructed for rinsing out concrete trucks. Signs shall be installed directing concrete truck drivers where designated washout facilities are located.
 - The contractor shall have the location of temporary concrete washout facilities approved by the resident engineer.
 - All temporary concrete washout facilities are to be inspected by the contractor after each use and all spills must be reported to the resident engineer and cleaned up immediately.
 - Concrete waste solids/liquids shall be disposed of properly.
- C. Litter Management –** A proper number of dumpsters shall be provided on site to handle debris and litter associated with the project. The Contractor is responsible for ensuring his/her employees place all litter including marking paint cans, soda cans, food wrappers, wood lathe, marking ribbon, construction string, and all other construction related litter in the proper dumpsters.
- D. Vehicle and Equipment Cleaning –** Vehicles and equipment are to be cleaned in designated areas only, preferably off site.

E. Vehicle and Equipment Fueling – A variety of BMPs can be implemented during fueling of vehicles and equipment to prevent pollution. The contractor shall inform the resident engineer as to which BMPs will be used on the project. The contractor shall inform the resident engineer how (s)he will be informing his/her employees of these BMPs (i.e. signs, training, etc.).

- Below are a few examples of these BMPs:
- Containment
- Spill Prevention and Control
- Use of Drip Pans and Absorbents
- Automatic Shut-Off Nozzles
- Topping Off Restrictions
- Leak Inspection and Repair

F. Vehicle and Equipment Maintenance – On site maintenance must be performed in accordance with all environmental laws such as proper storage and no dumping of old engine oil or other fluids on site.

VI. Failure to Comply:

Failure to comply with any provisions of this Storm Water Pollution Prevention Plan will result in the implementation of an Erosion and Sediment Control Deficiency Deduction against the contractor and/or penalties under the NPDES permit which could be passed onto the contractor.

I certify under penalty of law that this document and all attachments were prepared under my direct 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.

Patrick D. Stewart
Print Name


Signature

Project Manager
Title

10/15/09
Date

McClure Engineering Assoc. Inc.
Agency

**SWPPP
Contractor Certification Statement**

The Resident Engineer is to make copies of this form and every contractor and sub-contractor will be required to complete their own separate form.

This certification statement is part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with General NPDES Permit No. ILR10 issued by the Illinois Environmental Protection Agency.

FAU ROUTE 5063-WEST STATE ST. LAPP

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR 10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification. I have read and understand all of the information and requirements stated in the Storm Water Pollution Prevention Plan for the above mentioned project. I have provided all documentation required to be in compliance with the ILR10 and Storm Water Pollution Prevention Plan and will provide timely updates to these documents as necessary.

Contractor

Sub-Contractor

Print Name

Title

Name of Firm

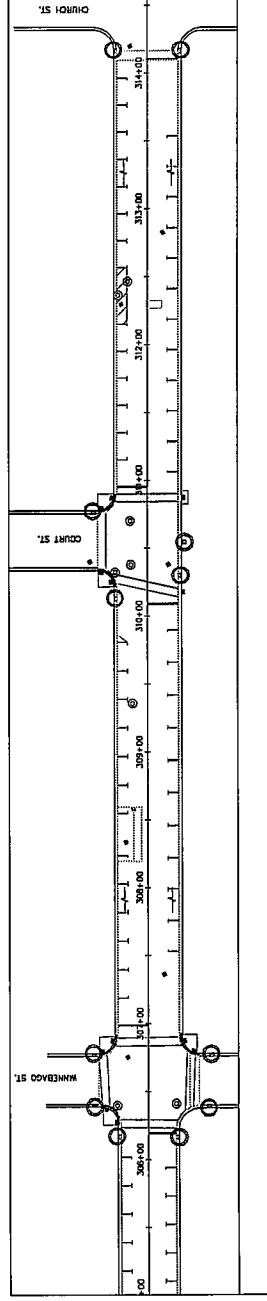
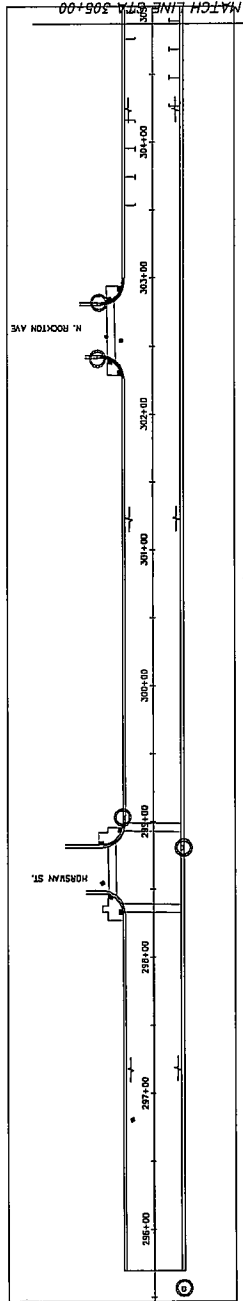
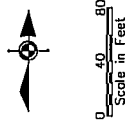
Street Address

Signature

Date

Telephone

City/State/ZIP



USGS MAP

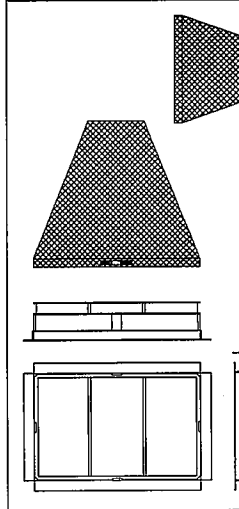
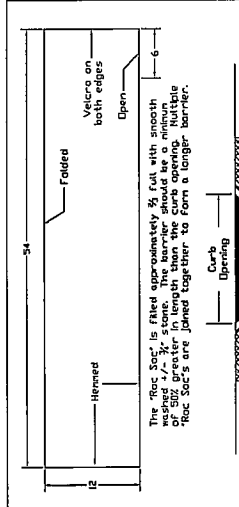


STORMWATER POLLUTION PREVENTION

1. THE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF THE DRAWING MAPS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL BE REQUIRED TO OBTAIN AND MAINTAIN A CURRENT POLLUTION PREVENTION PLAN FROM THE CITY OF HOUSTON.
3. GENERAL FERTILIZER, CITY OF HOUSTON POLICE, AND BUREAU OF PUBLIC WORKS SHALL BE NOTIFIED OF ALL POLLUTION PREVENTION MEASURES AS REQUIRED BY THE CONDITIONS AT NO ADDITIONAL COST TO OTHERS THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. LOCAL RESIDENTS OR BUSINESS OWNERS WHOSE PROPERTY IS ADJACENT TO THE CONSTRUCTION SITE OR LOCAL RESIDENTS OR BUSINESS OWNERS WHOSE PROPERTY IS ADJACENT TO THE CONSTRUCTION SITE SHALL BE NOTIFIED OF ALL POLLUTION PREVENTION MEASURES AS REQUIRED BY THE CONDITIONS AT NO ADDITIONAL COST TO OTHERS THROUGHOUT ALL PHASES OF CONSTRUCTION.
5. GENERAL CONTRACTORS SHALL INCLUDE ON EXISTING THE NECESSARY FERTILIZER AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA.
6. DETAIL AND PROPERLY THE AID OR IMPROVED.
7. ALL MATERIALS SKIPPED, DROPPED, OR TRACKED FROM VEHICLES ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
8. ALL MATERIALS SKIPPED, DROPPED, OR TRACKED FROM VEHICLES ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
9. ALL MATERIALS SKIPPED, DROPPED, OR TRACKED FROM VEHICLES ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
10. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES PAVING FOR ROAD CONSTRUCTION.
11. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES PAVING FOR ROAD CONSTRUCTION.
12. THE EROSION CONTROL MEASURES INDICATED ON THE DRAWING MAPS ARE THE MINIMUM REQUIREMENTS.

MAINTENANCE NOTES

1. ALL BUMP ASSEMBLIES SHOWN ON THIS STORM WATER POLLUTION PREVENTION MAP AND PLAN SHALL BE MAINTAINED IN FULL COMPLIANCE WITH THE CITY OF HOUSTON'S POLLUTION PREVENTION PLAN. ALL EROSION AND STABILIZATION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT. ALL EROSION AND STABILIZATION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
2. ALL BUMP ASSEMBLIES SHOWN ON THIS STORM WATER POLLUTION PREVENTION MAP AND PLAN SHALL BE MAINTAINED IN FULL COMPLIANCE WITH THE CITY OF HOUSTON'S POLLUTION PREVENTION PLAN. ALL EROSION AND STABILIZATION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT. ALL EROSION AND STABILIZATION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
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NOTES

1. The barrier shall be fabricated from a non-woven polypropylene having a minimum weight of 6 oz./sq. yd. The socs shall have a minimum length of 54 inches and a maximum length of 54 inches. The barriers shall be inspected regularly and any accumulated sediment and debris shall be removed as needed.

2. The barrier shall be fabricated from a non-woven polypropylene having a minimum weight of 6 oz./sq. yd. The socs shall have a minimum length of 54 inches and a maximum length of 54 inches. The barriers shall be inspected regularly and any accumulated sediment and debris shall be removed as needed.

REVISIONS

NO.	DATE	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

- SYMBOLS**
1. SEE STANDARDS AND DETAILS FOR BUMPS.
 2. LIMITS OF DISTURBANCE ARE FROM RDC TO BDC.

- LEGEND**
- INLET PROTECTION
 - DRAINAGE FLOW DIRECTION

SHEET NO. EX 4

EROSION & SEDIMENTATION CONTROL MAP

W STATE ST. ST.

FILE NO. 09-00569-00-RS



SCALE	1" = 30'
DATE	
BY	
CHECKED BY	
DATE	4/21/2008

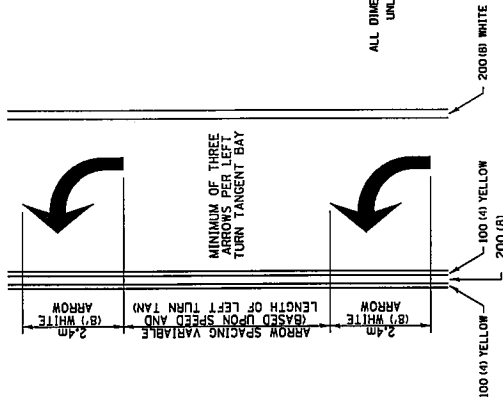
NO.	DATE	REVISIONS

NO.	DATE	REVISIONS

NO.	DATE	REVISIONS

TYPICAL PAVEMENT MARKINGS

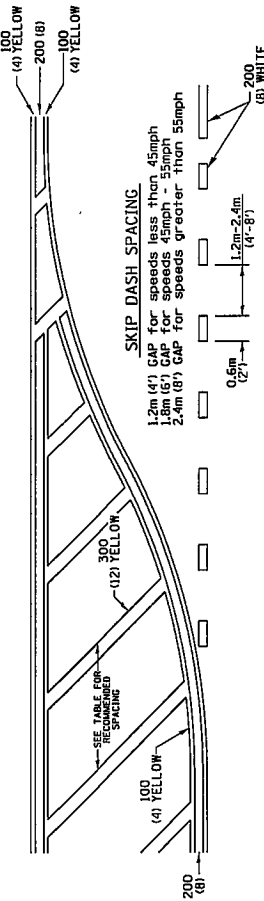
ARROW LAYOUT



ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER
- ◀ TWO-WAY AMBER MARKER

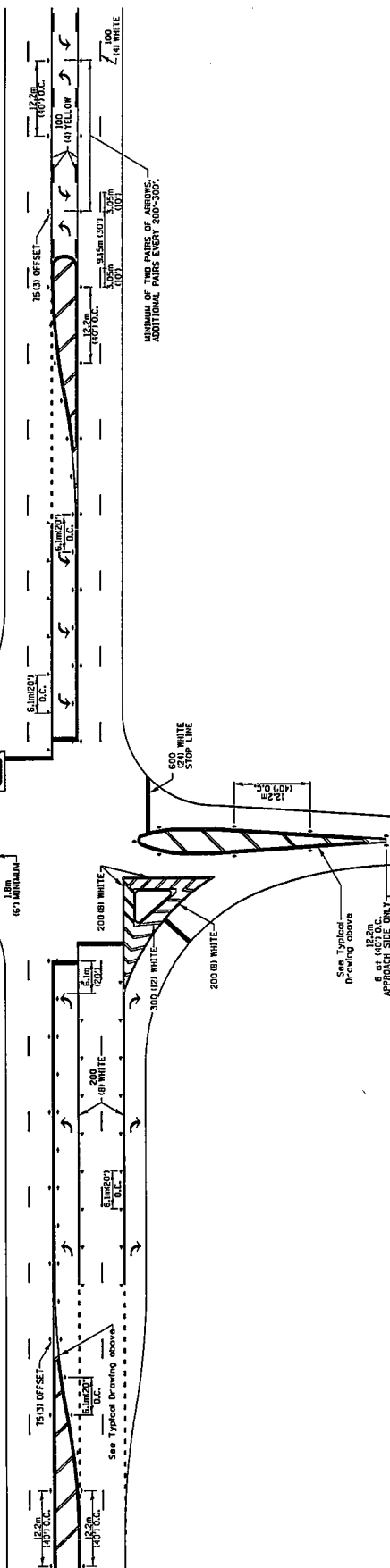
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50km/h (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60km/h (30-40MPH)	22.3m (75')	6.1m (20')	4.53m (15')
70km/h (45MPH) & over	22.5m (75')	9.05m (30')	6.1m (20')

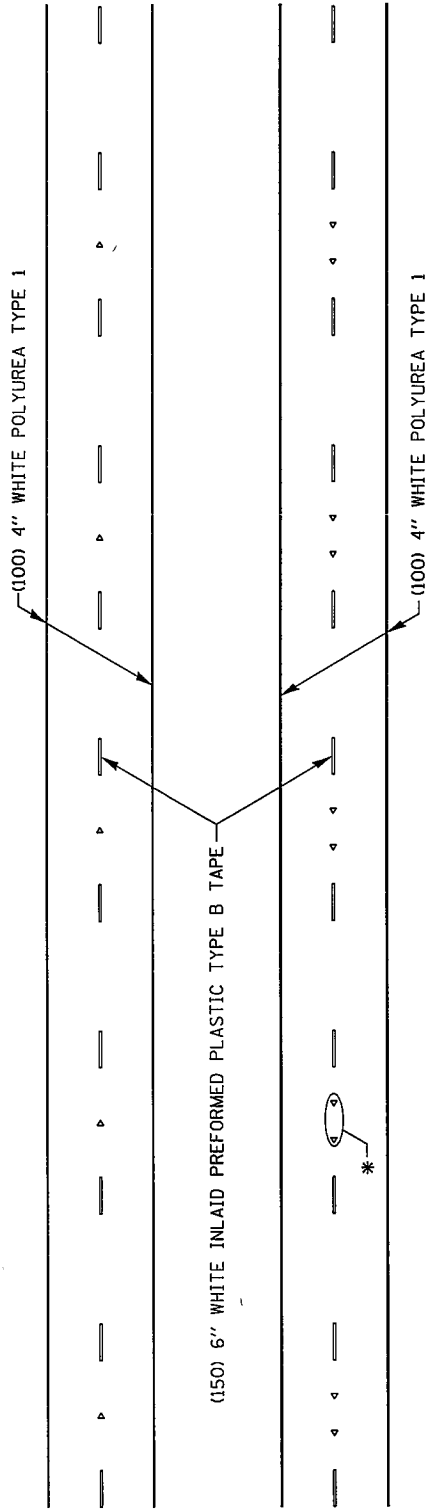
NOTE: If the spacing recommended in the Table does not permit of least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



FILE NAME	DESIGNED	REVISION	DATE
District 2 Standard	10-21-08		
DRAWN	REVISION		
CHECKED	REVISION		
DATE	REVISION		
USER NAME	1001/10/10/2		
PROJECT NAME / No.			
PROJECT DATE	10/21/08 2:04		
SCALE	SHEET NO. OF SHEETS	STA.	TO STA.
REGION 2 / DISTRICT 2 STANDARD			
SECTION	F.A. TITLE	F.S. ROAD DIST. NO.	PLAN/SECTION/DATE
COUNTY	CONTRACT NO.		

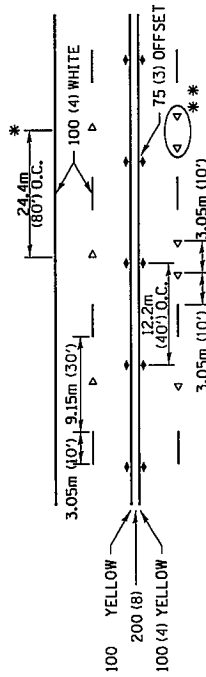
TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT ≥ 25,000.

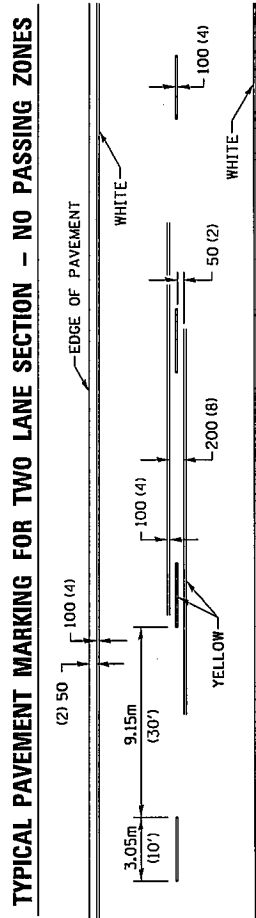
MULTI-LANE / DIVIDED



* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15km/h (10mph) LOWER THAN POSTED SPEEDS.

** USE DOUBLE MARKERS WHEN ADT ≥ 25,000

MULTI-LANE / UNDIVIDED



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES

SYMBOLS

FAP 412 / FAU
Section No. 002

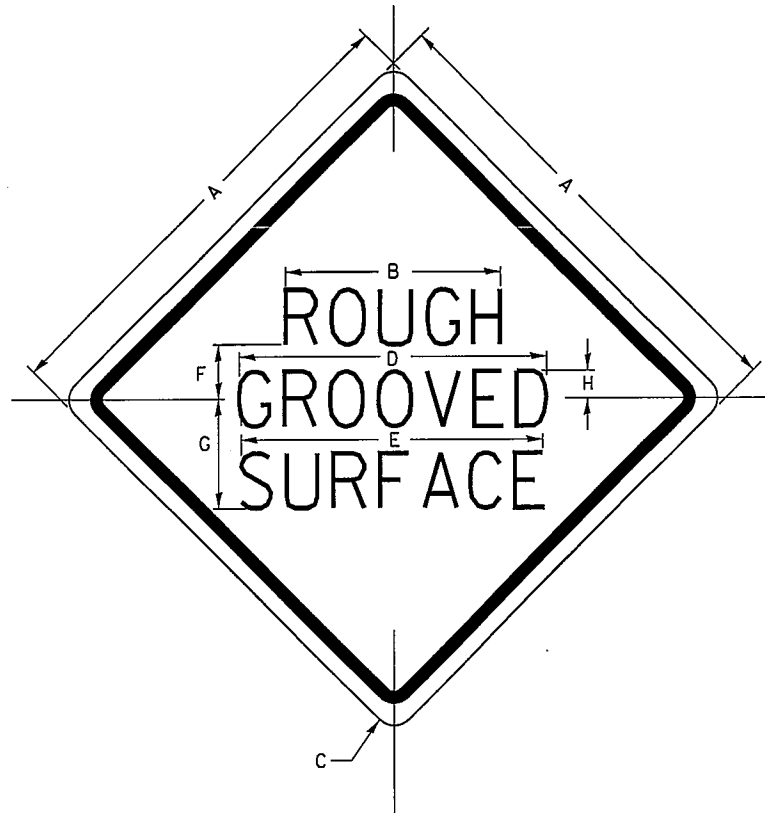
FILE NAME * District 2 Standard	DESIGNED - DATE	REVISION - DATE	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE	SHEET NO. OF SHEETS	STANDARD	REGION 2 / DISTRICT 2 STANDARD	SECTION	COUNTY	PROJECT NO.	CONTRACT NO.

TYPICAL PAVEMENT MARKINGS SHEET 3 OF 3

FAU 5063
69-00-RS

ROUGH GROOVED SURFACE SIGN

ILLINOIS STANDARD W8-I107
 SIGN PANEL TYPE 1



COLOR: LEGEND AND BORDER - BLACK NON-REFLECTIVE
 BACKGROUND - ORANGE REFLECTORIZED

GENERAL NOTES

SIGN PANELS AND FACE MATERIALS SHALL BE ACCORDING TO SECTION 720 OF THE STANDARD SPECIFICATIONS

METAL POSTS SHALL BE IN ACCORDANCE WITH STD. 720011.

ALL MOUNTING HARDWARE SHALL BE ALUMINUM, STAINLESS STEEL, ZINC OR CADMIUM PLATED STEEL AND SHALL BE INCLUDED TO THE COST OF THE INSTALLATION.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

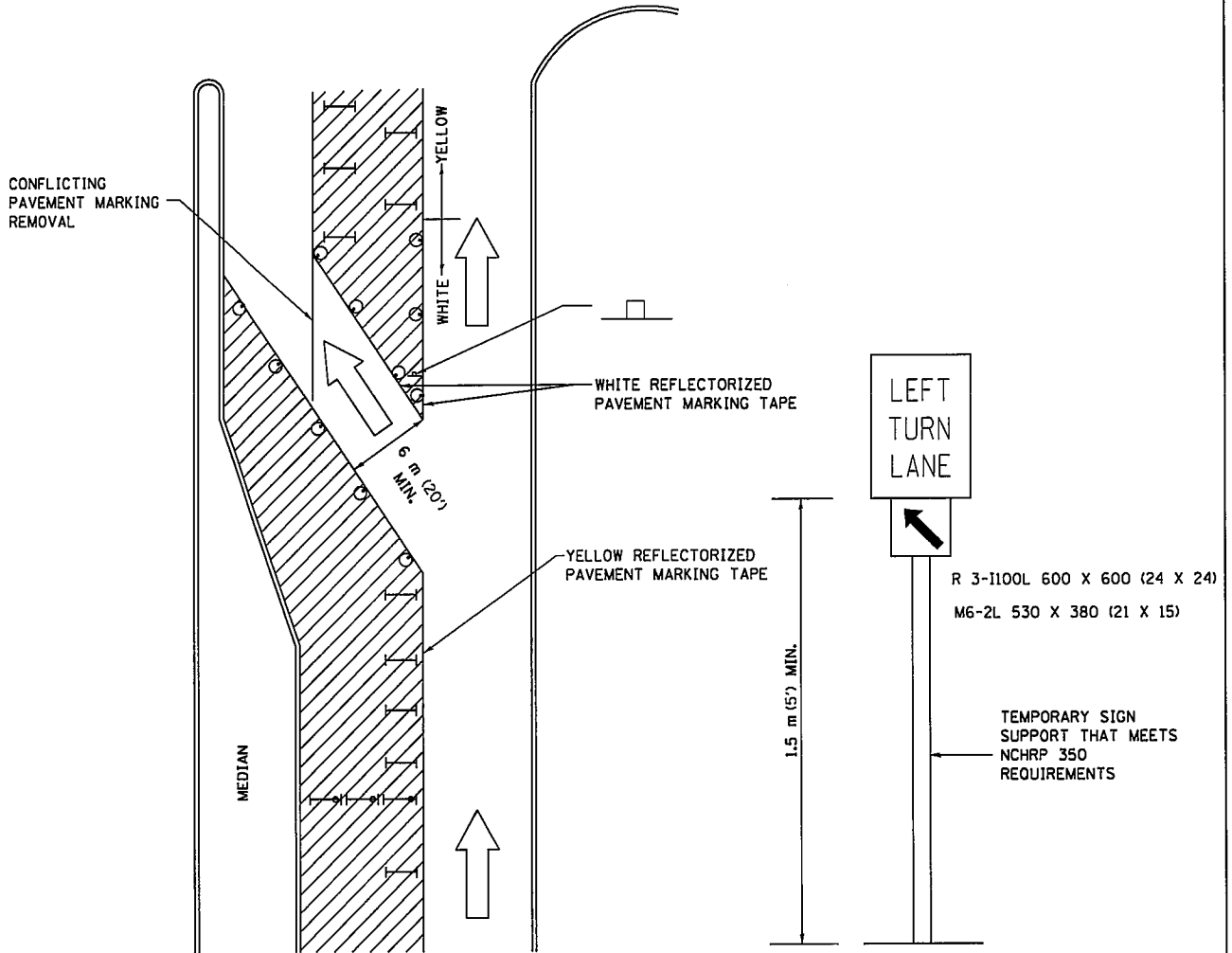
SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
1200x1200 (48x48)	1200 (48.0)	600 (24.1)	75 (3.0)	850 (34.0)	825 (33.0)	150 (6.0)	325 (13.0)	88 (3.5)

SIGN SIZE	SERIES			MARGIN	BORDER	BLANK STD.
	LINES					
	1	2	3			
1200x1200 (48x48)	7C	7C	7C	20 (0.8)	30 (1.2)	B4-48D


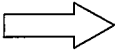




ALL DIMENSIONS IN INCHES.

REVISED - 1-09-08	76 REGION 2 / DISTRICT 2 STANDARD				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -									
REVISED -									
REVISED -					CONTRACT NO.				
REVISED -	SCALE: 1:8000 ' / IN.	SHEET NO.	OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)



LEGEND

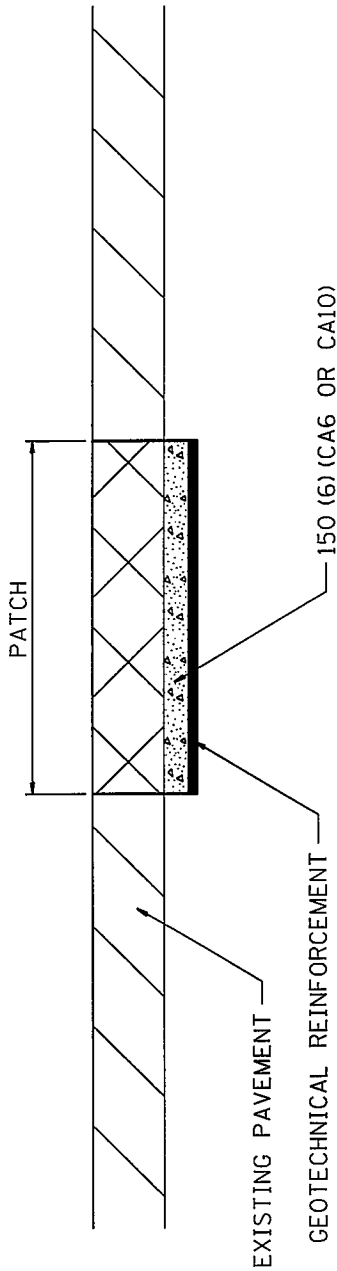
-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE OR DRUM WITH FLASHING BURNING LIGHT
-  DRUM OR BARRICADE WITH STEADY BURN LIGHT
-  SIGN (SEE DETAIL)
-  TYPE I OR II CHECK BARRICADE WITH STEADY LIGHT BURN

GENERAL NOTES

- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 710 (28) IN HEIGHT.
- STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS WILL BE MONODIRECTIONAL.
- REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
- THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 600 X 600 (24 X 24) AND M6-2R 530 X 380 (21 X 15) SHALL BE USED.
- THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.
- ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 10-15-04	REGION 2 / DISTRICT 2 STANDARD				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -									
REVISED -	SCALE: 1:80000 1" = 1/2 MI.	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO.			
REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SUBGRADE REPLACEMENT



NOTES:

THE CA 6 OR CA 10 SHALL BE COMPACTED IN A MANNER APPROVED BY THE ENGINEER, IF THE MOISTURE CONTENT OF THE MATERIAL IS SUCH THAT COMPACTION SATISFACTORY TO THE ENGINEER CANNOT BE OBTAINED, SUFFICIENT WATER SHALL BE ADDED SO THAT SATISFACTORY COMPACTION CAN BE OBTAINED.

THE CA 6 OR CA 10 WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU YD FOR GRANULAR SUBGRADE REPLACEMENT

THE GEOTECHNICAL REINFORCEMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ YD FOR GEOTECHNICAL REINFORCEMENT

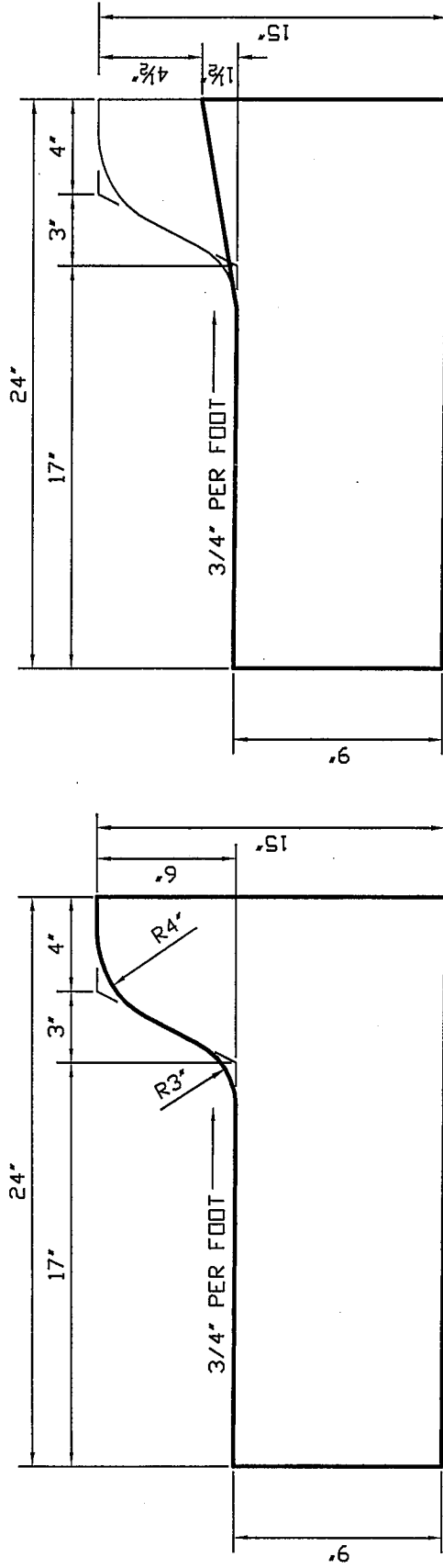
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 1-09-08	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -							
REVISED -							
REVISED -	SCALE: 1:80000' / IN.	SHEET NO. OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		CONTRACT NO.

PLOT DATE = Fri Sep 18 09:37:11 2009

SUBGRADE REPLACEMENT

97.4



Combination Concrete
Curb & Gutter, Type M6.18
Modified

DTL-CURB M6.18

SEE APPLICABLE GENERAL NOTES
ON NEXT PAGE.

GENERAL NOTES

DEPRESSED CURBS – The top of curbs shall be depressed where the curb and gutter is constructed across alleys and for private drives or where directed by Engineer.

THICKNESS – "t" = Thickness of pavement.

DRAINAGE OPENINGS – At all location where castings are to be incorporated in the curb and gutter, a 1" expansion joint shall be installed in the curb and gutter a distance of 5 ft. from each side of the casting. At least 2 tie bar shall be placed in the 5 ft. portion and the bars shall be at least 9" from the joint or casting. Any extra bars required shall be considered incidental. When the width of the casting is less than the width of the curb and gutter 2-No. 4 re-bar ($L = 12" + \text{casting length} + 12"$) shall be incorporated in the continuous portion of concrete gutter in front of the casting.

TIE BARS – Tie bars shall be in accordance with details for Bulkhead Longitudinal Construction joint shown of Standard 420001-03. When curb and gutter is constructed adjacent to flexible pavement tie bar shall be omitted.

JOINTS – In addition to the requirements of Article 606.06 of the Standard Specification joints shall be constructed as follows:

Contraction joint and expansion joints shall be installed in the curb and gutter in prolongation with joints in adjacent PCC pavement or base course except that dowel bars will not be required in contraction joints. Contraction joints when sawed or template formed shall be sealed in accordance with Article 420.12 of the Standard Specifications.

When curb and gutter is constructed adjacent to flexible pavement, a 1" expansion joint shall be installed at points of curvature for short-radius curves and at construction joints. Contraction joints shall be placed between expansion joints at distances not to exceed 25 ft

All expansion joints shall be constructed with a minimum 1" thick preformed expansion joint filler conforming to the cross section of the curb and gutter and shall be provided with a 1-1/4" diameter x 18" coated smooth dowel bar conforming to Article 1006.11(b) of the Standard Specifications. The greased end of the dowel bar shall be fitted with a cap having a pinched stop that will provide a minimum 1" of expansion.

Construction joints constructed in curb and gutter adjacent to PCC pavement and PCC base course shall be provided with No. 4 deformed steel tie bars 30" long. Tie bars shall be placed on 9" + centers (minimum 2 per joint).

TRANSITIONS – The transition from full height curb to depressed curb shall be made at the rate of 3" per foot of length or flatter.

ADJACENT PCC PAVEMENT – Adjacent PCC pavement or base course less than 1" in width shall be constructed monolithic with the curb and gutter. This area of pavement will be included in the measured area of the adjacent pavement.

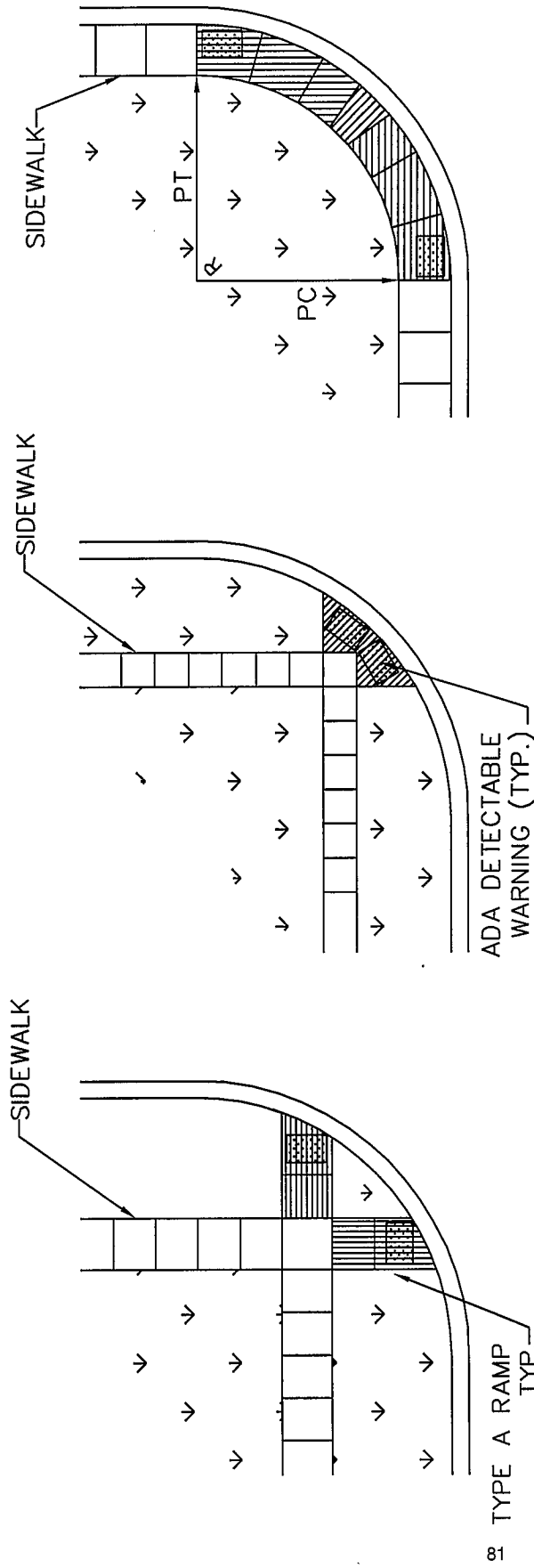
MONOLITHIC CONSTRUCTION – Curb and combination curb and gutter may be constructed monolithically with PCC pavement at the option of the Contractor. Tie bar will not be required. Pavement reinforcement shall be extended laterally to within 3" to 5" from the back of the curb.

Curbs and combination curb and gutter may be constructed monolithically with PCC base course. Tie bar will be required. Tie bars shall be held in the proper location by support pins or approved mechanical means.

Longitudinal joints between the PCC pavement or PCC base course and curb or combination curb and gutter will not be required.

SLIPFORM CONSTRUCTION – Vertical faces may be battered at the rate of 3/4" per foot of height to aid in slipform operations.

DTL-ADARAMP069-00-RS

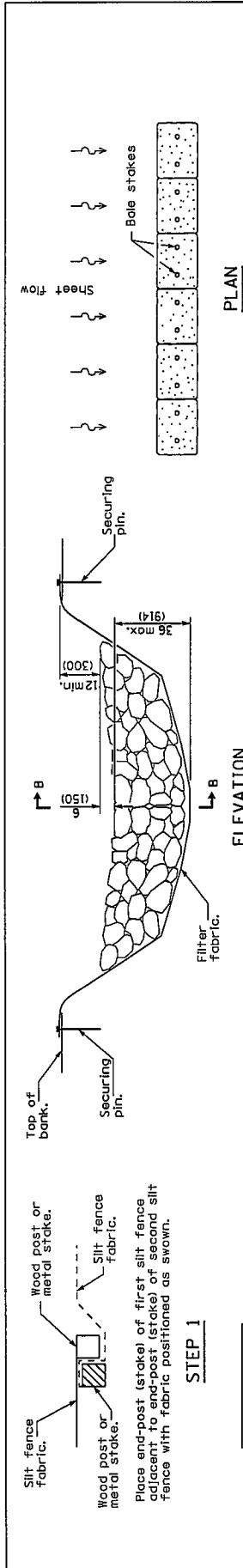


NOTE: MODIFICATION OF IDOT STD 424001

HATCHED AREAS OR DETECTABLE WARNINGS SHALL BE MANUFACTURED PRODUCTS SET IN THE POURED SIDEWALK. PROVIDE DETECTABLE WARNINGS MADE OF GLASS AND CARBON REINFORCED COMPOSITE, AS MANUFACTURED BY ADA SOLUTIONS, INC OF N. BILLERICA, MA OR EQUALLY APPROVED SUPPLIER. BOX JOISTS WITH POURED COLORED CONCRETE WILL NOT BE ALLOWED. PHYSICAL CHARACTERISTICS: COMPRESSIVE STRENGTH 28,900 PSI (ATSM D695), FLEXURAL STRENGTH 29,300 PSI (ATSM D790), SLIP RESISTANCE 1.18 DRY/1.05 WET (ATSM C1028).

SHADED AREAS TO BE 6 INCH THICK CONCRETE WITH WELDED WIRE FABRIC REINFORCEMENT. WELDED WIRE FABRIC MAY BE SMOOTH OR DEFORMED AND SHALL BE EQUAL TO OR BETTER THAN 6"X6" D8.0/D8.0 AND MEET THE REQUIREMENTS OF ARTICLE 1006.10(c) OF THE STANDARD SPECIFICATIONS.

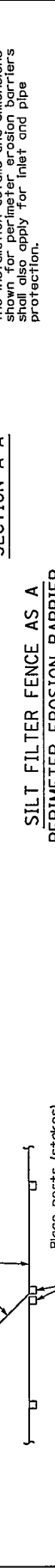
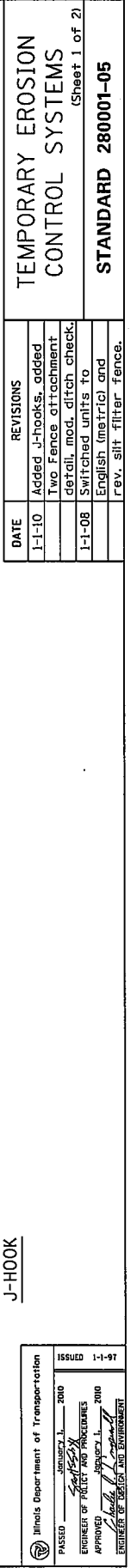
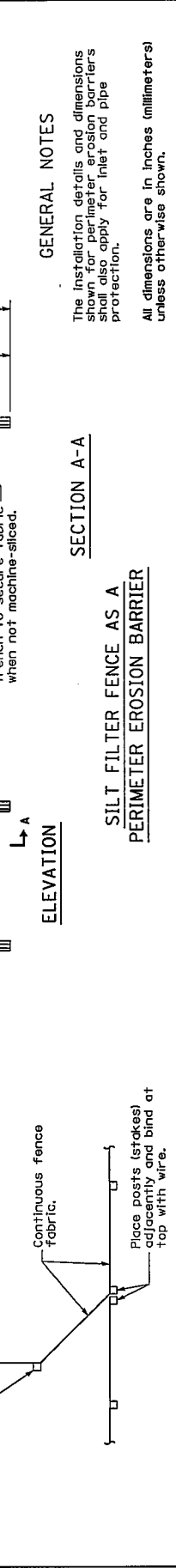
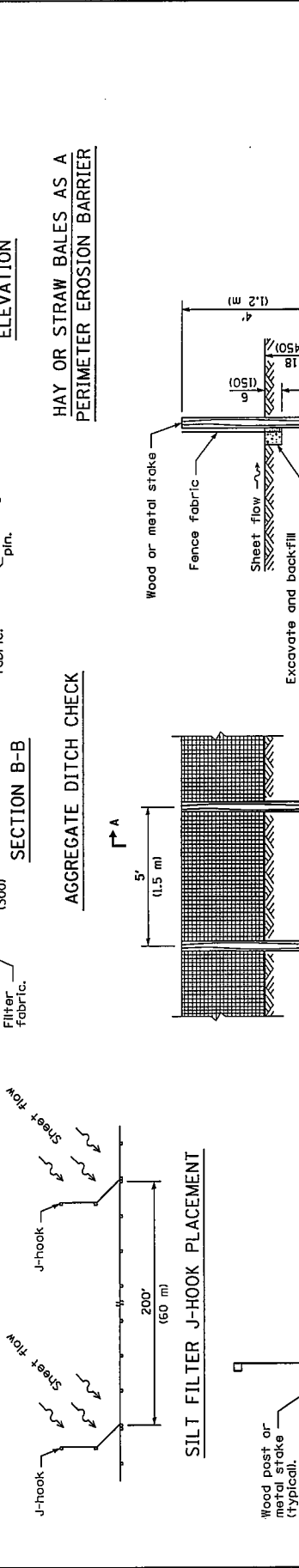
ADA CURB RAMP DETAIL FOR INTERSECTIONS



STEP 1
Silt fence fabric. Wood post or metal stake. Silt fence fabric. Place end-post (stake) of first silt fence adjacent to end-post (stake) of second silt fence with fabric positioned as shown.

STEP 2
Rotate posts (stakes) together, 180° clockwise and drive both posts (stakes) 18 (450) into ground.

ATTACHING TWO SILT FILTER FENCES
(Not applicable for J-hooks)



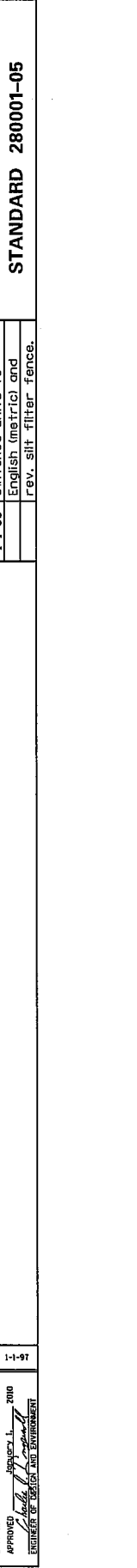
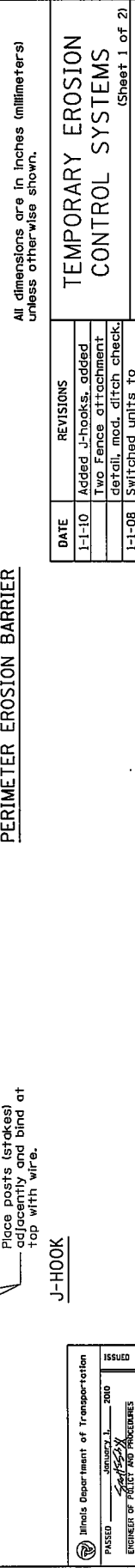
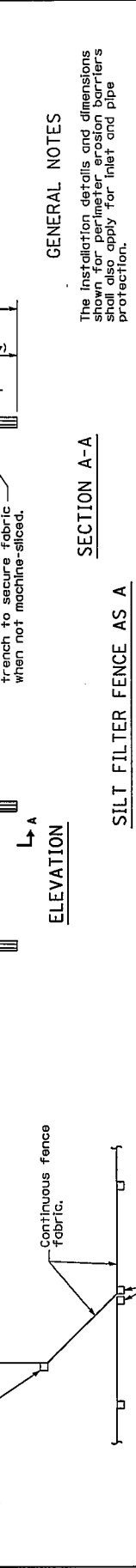
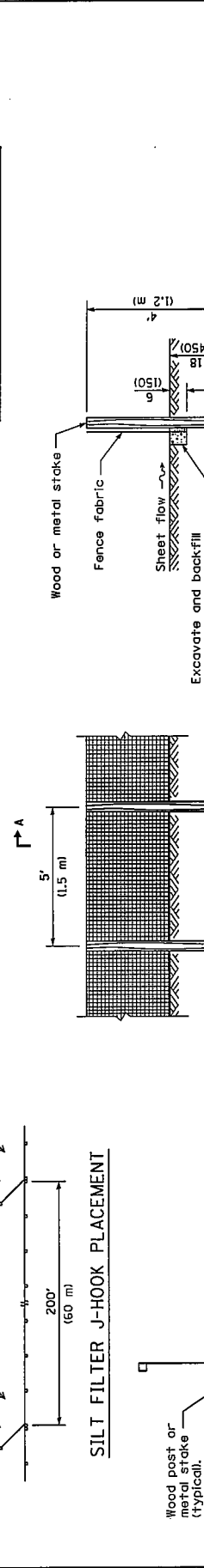
Illinois Department of Transportation
 PASSED JANUARY 1, 2010
 ENGINEER OF FIELD OPERATIONS
 APPROVED JANUARY 1, 2010
 ENGINEER OF DESIGN AND ENVIRONMENT

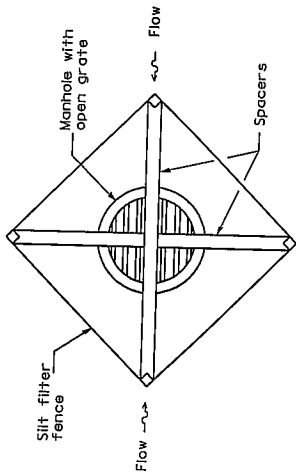
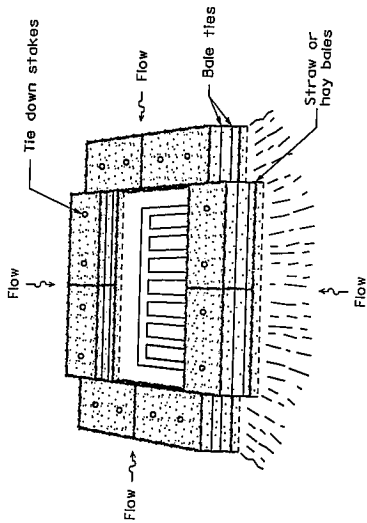
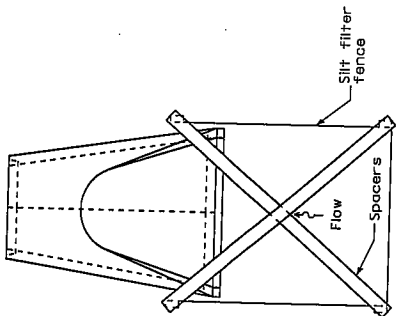
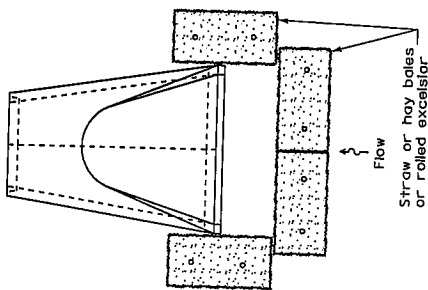
DATE	REVISIONS
1-1-10	Added J-hooks, added Two Fence attachment detail, mod. ditch check
1-1-08	Switched units to English (metric) and Rev. silt filter fence.

TEMPORARY EROSION CONTROL SYSTEMS
(Sheet 1 of 2)
STANDARD 280001-05

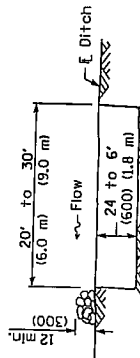
GENERAL NOTES
The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.
All dimensions are in inches (millimeters) unless otherwise shown.

HAY OR STRAW BALES AS A PERIMETER EROSION BARRIER



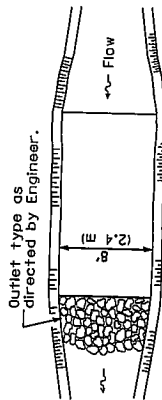


INLET AND PIPE PROTECTION



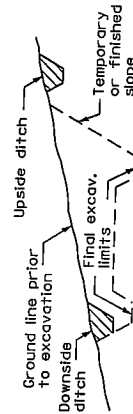
The performance of the basin will improve if put into a series.

ELEVATION

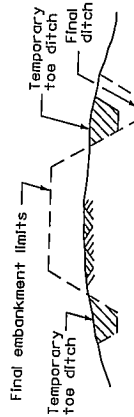


The long dimension should be parallel with the direction of the flow. Accumulated silt shall be removed anytime the basins become 75% filled.

PLAN



TYPICAL CUT CROSS-SECTION



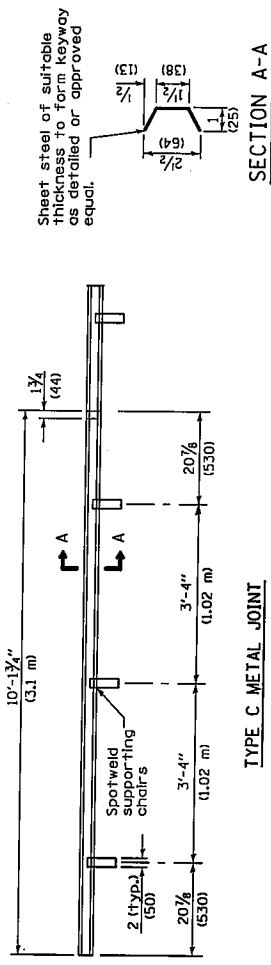
TYPICAL FILL CROSS-SECTION

TEMPORARY DITCHES FOR CUT & FILL SECTIONS

SEDIMENT BASIN

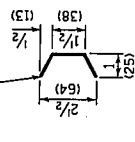
Missouri Department of Transportation		ISSUED 1-1-87
PASSED	2010	
APPROVED	2010	
ENGINEER OF PROJECT AND PROCEDURES		
APPROVED		
ENGINEER OF DESIGN AND ENVIRONMENT		

TEMPORARY EROSION CONTROL SYSTEMS
(Sheet 2 of 2)
STANDARD 280001-05



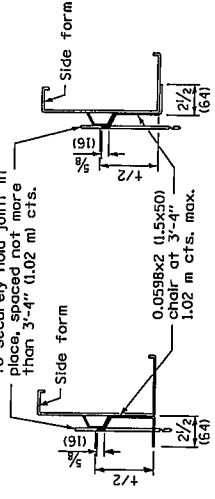
TYPE C METAL JOINT

Sheet steel of suitable thickness to form keyway as detailed or approved equal.

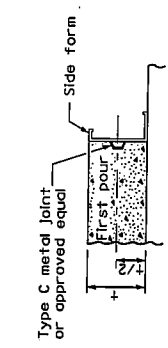


SECTION A-A

Channel pin size sufficient to securely hold form in place, spaced not more than 3'-4" (1.02 m) cts.

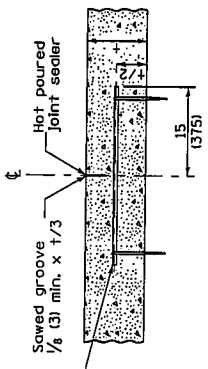


SUPPORTING CHAIR ALTERNATE



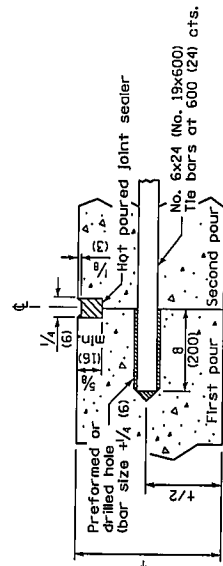
SUPPORTING CHAIR ALTERNATE

LONGITUDINAL KEYS JOINT

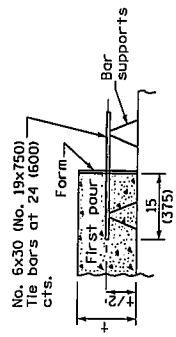


LONGITUDINAL SAWED JOINT

No. 6x30 (No. 19x750) Tie bars at 30 (750) cts. (shown on support pins)



LONGITUDINAL CONSTRUCTION JOINT (TIE BAR GROUDED IN PLACE)



LONGITUDINAL CONSTRUCTION JOINT (TIE BAR FORMED IN PLACE)

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

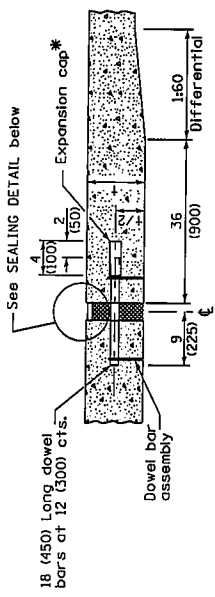
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation	
PASSED	ISSUED 1-1-97
APPROVED	APPROVED
ENGINEER OF TRAFFIC AND PROCEDURES	ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-08	Switched units to English (metric).
8-1-05	Added supports to long. constr. jt. and revised note for trans. exp. jt.

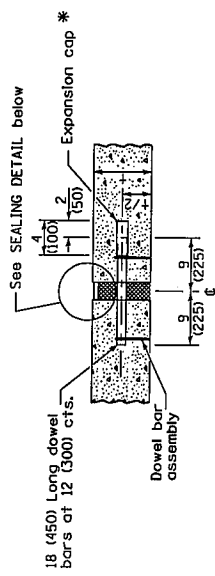
PAVEMENT JOINTS

STANDARD 420001-07 (Sheet 1 of 2)

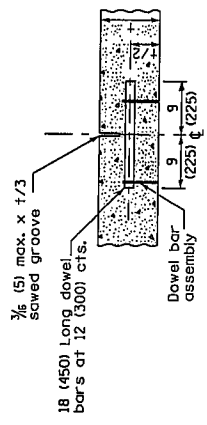


TRANSVERSE EXPANSION JOINT
(FOR PAVEMENTS WITH UNEQUAL THICKNESS)

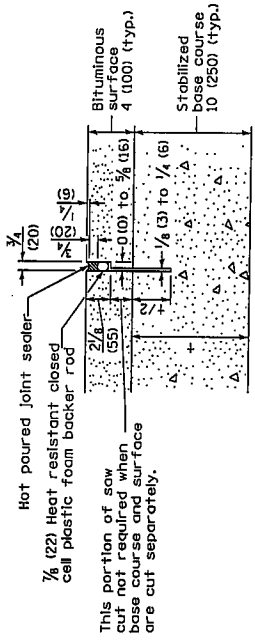
* Expansion caps shall be installed on the exposed end of each dowel bar once the header has been removed and the joint filler material has been installed.



TRANSVERSE EXPANSION JOINT
(FOR PAVEMENTS WITH EQUAL THICKNESS)

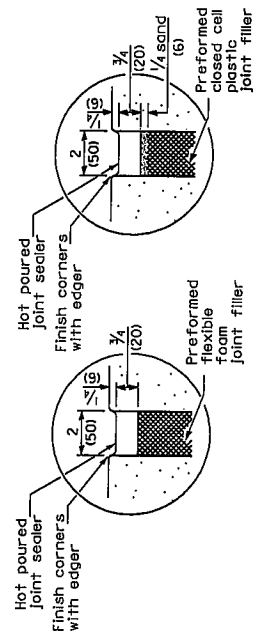


TRANSVERSE CONTRACTION JOINT



TRANSVERSE CONTRACTION JOINT
(FOR CAM, CFA AND LFA BASE COURSE MIXTURES)

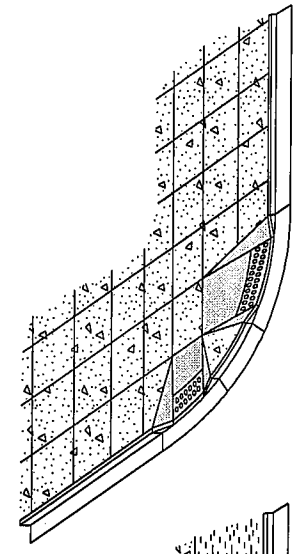
DOWEL BAR TABLE	
PAVEMENT THICKNESS	DOWEL BAR DIAMETER
8 (200) or greater	1/2 (38)
7 (175) thru 7.99 (199)	1/4 (32)
Less than 7 (175)	1 (25)



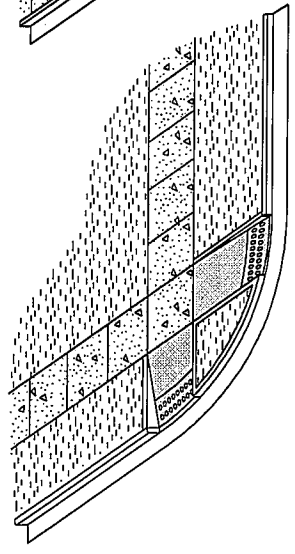
SEALING DETAIL

Illinois Department of Transportation
 PASSED January 1, 2008
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED January 1, 2008
 ENGINEER OF DESIGN AND ENVIRONMENT

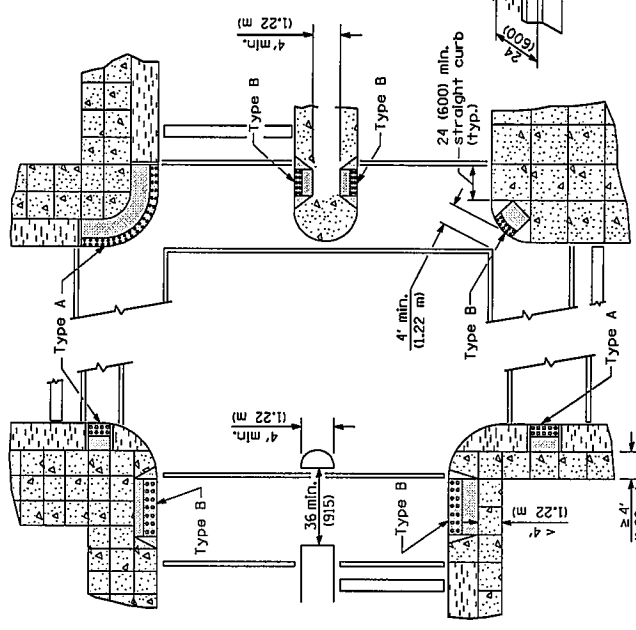
PAVEMENT JOINTS
 (Sheet 2 of 2)
 STANDARD 420001-07



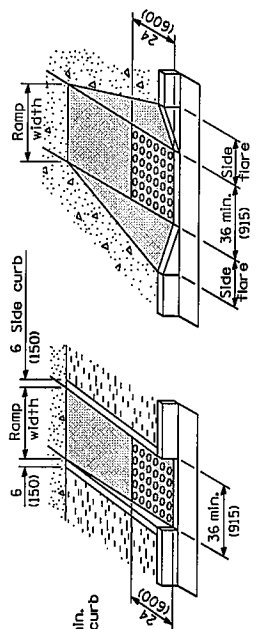
TYPE B RAMPS



TYPE A RAMPS



RECOMMENDED LOCATION OF RAMPS

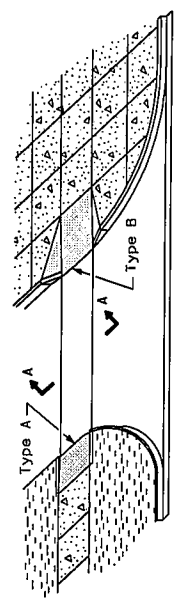


TYPE B

TYPE A

DETAILS OF RAMPS

SECTION A-A



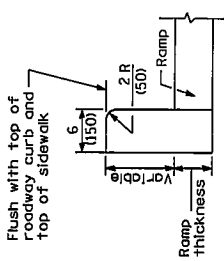
RAMPS AT ALLEYS OR ENTRANCES

GENERAL NOTES

Detectable warnings shall be installed at curb ramps, medians and pedestrian refuge islands, at-grade railroad crossings, transit platform edges, and other locations where pedestrians are required to cross a hazardous vehicular way. Detectable warnings shall also be installed at alleys and commercial entrances when permanent traffic control devices are present.

The maximum slope of the side flare for Type B ramps shall be 1:10; however, if the width of the landing area between the top of the ramp and an obstruction is less than 4' or 1122 mm, then the maximum slope shall be 1:12.

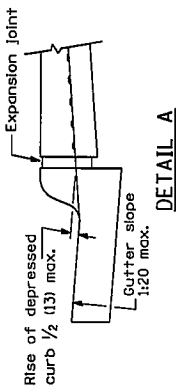
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H). All dimensions are in inches (millimeters) unless otherwise shown.



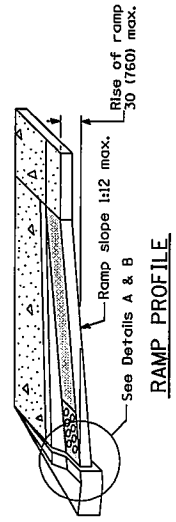
DETAIL OF SIDE CURB

(Side curb may be constructed monolithically with ramp)

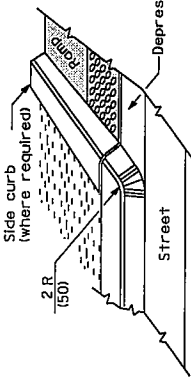
Flush with top of roadway curb and top of sidewalk



DETAIL A



RAMP PROFILE



DETAIL B

LEGEND

- Sidewalk
- Ramp
- Detectable Warnings
- Non walking area

REVISIONS

DATE	REVISIONS
1-1-08	Switched units to English (metric).
B-1-05	Revised placement of detectable warnings.

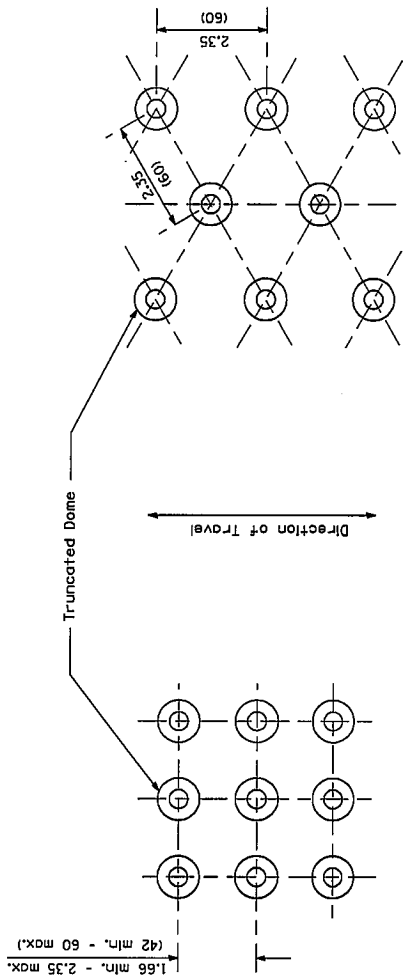
CURB RAMPS FOR SIDEWALKS

(Sheet 1 of 2)

STANDARD 424001-05

Illinois Department of Transportation
 PASSED JANUARY 1, 2008
 ENGINEER OF PROJECT AND PROCEDURES
 APPROVED JANUARY 1, 2008
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-07



TRUNCATED DOME DETAIL

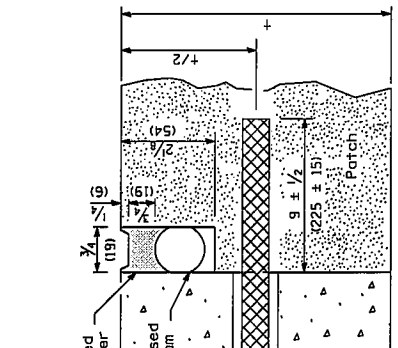
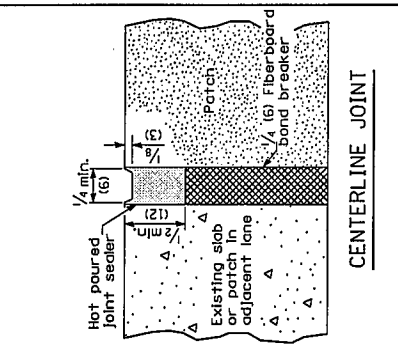
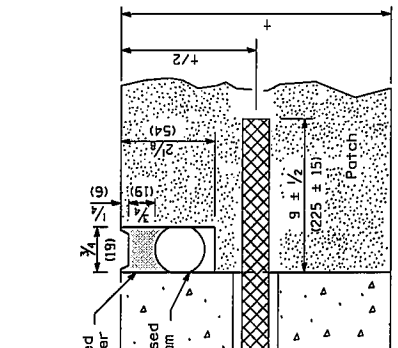
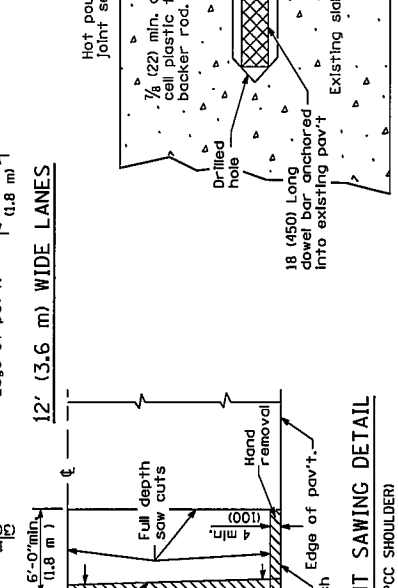
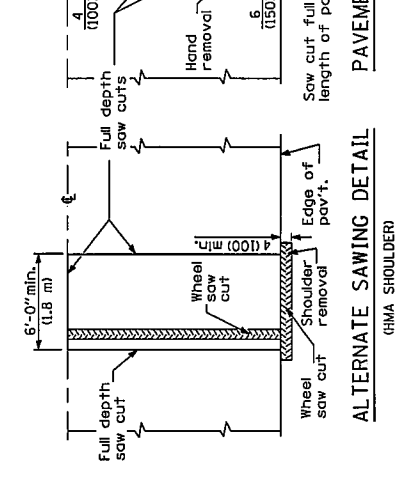
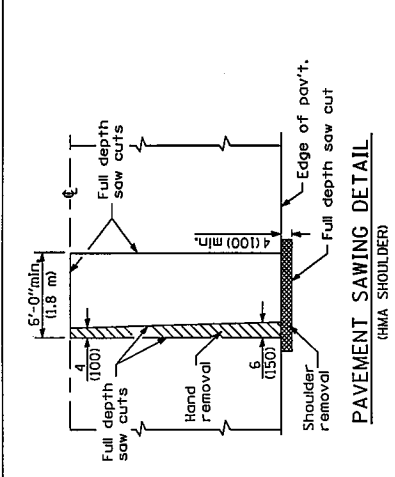
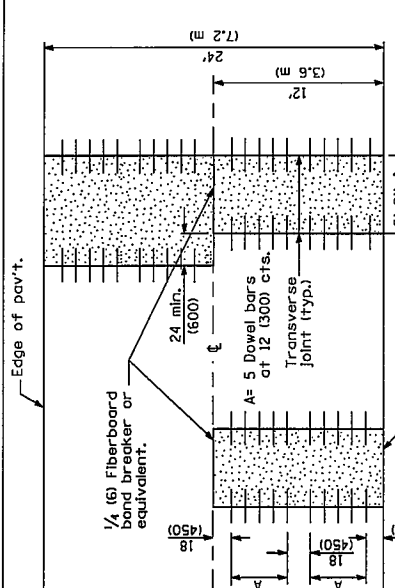
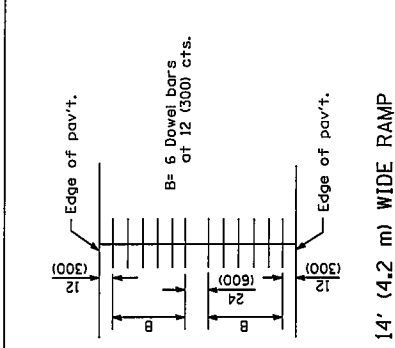
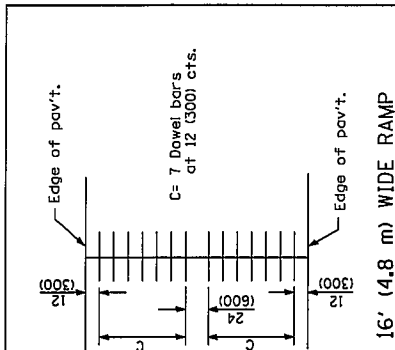
TRIANGULAR PATTERN

SQUARE PATTERN
(Parallel Alignment)

DETECTABLE WARNINGS DETAIL

**CURB RAMP
FOR SIDEWALKS**
(Sheet 2 of 2)
STANDARD 424001-05

Illinois Department of Transportation PASSED ENGINEER OF POLICY AND PROCEDURES APPROVED ENGINEER OF DESIGN AND ENVIRONMENT	JANUARY 1, 2008 <i>[Signature]</i>	ISSUED 1-1-07
	APPROVED JANUARY 1, 2008 <i>[Signature]</i>	
	APPROVED JANUARY 1, 2008 <i>[Signature]</i>	
	APPROVED JANUARY 1, 2008 <i>[Signature]</i>	



DOWEL BAR TABLE

PAVEMENT THICKNESS	DOWEL BAR DIAMETER	HOLE DIAMETER
8 (200) or greater	1/2 (38)	1 1/8 (41)
7 (180) thru 7.99 (199)	1/4 (32)	1 3/8 (35)
Less than 7 (180)	1 (25)	1 1/8 (29)

GENERAL NOTES

The transverse joints for Class B patches shall align with joints or cracks in the adjacent lane whenever possible. See Standard 420701 for details of pavement fabric. All dimensions are in inches (millimeters) unless otherwise shown.

REVISIONS

DATE	REVISIONS
1-1-08	Switched units to English (metric).
1-1-07	Revised General Notes.

CLASS B PATCHES

STANDARD 442101-07

(Sheet 1 of 2)

Illinois Department of Transportation

PASSED January 1, 2008

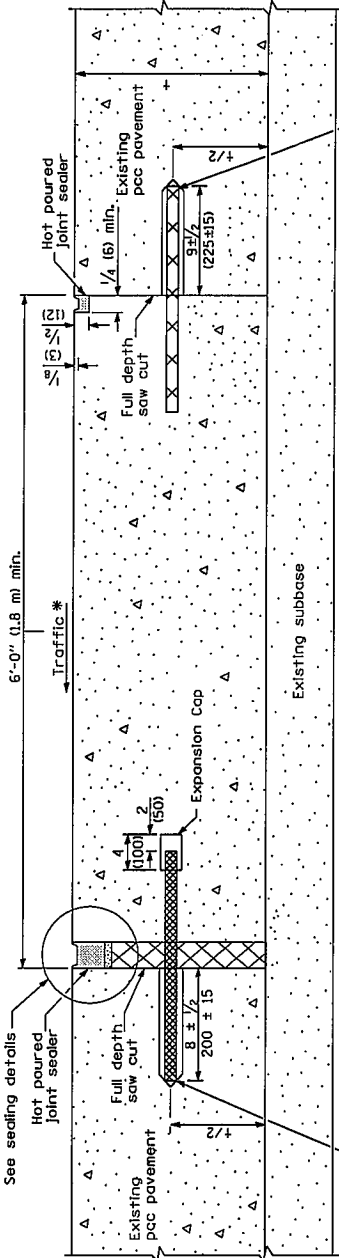
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2008

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

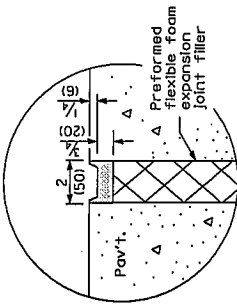
TRANSVERSE EXPANSION JOINTS



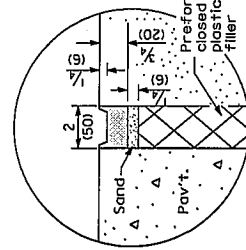
No. 10x18 (No. 32x450)
Tie bars anchored
into existing pavement
at 12 (300) cts.

METHOD I
(Without Resurfacing)

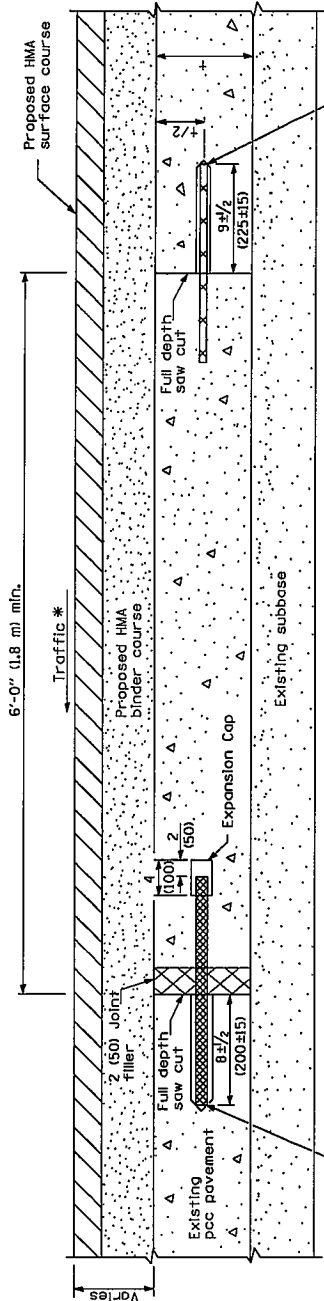
18 (450) Long dowel bars
anchored into existing
pavement at 12 (300) cts.



SEALING DETAIL



SEALING DETAIL



No. 10x18 (No. 32x450)
Tie bars anchored
into existing pavement
at 12 (300) cts.

METHOD II
(With Resurfacing)

18 (450) Long dowel bars
anchored into existing
pavement at 12 (300) cts.

NOTE

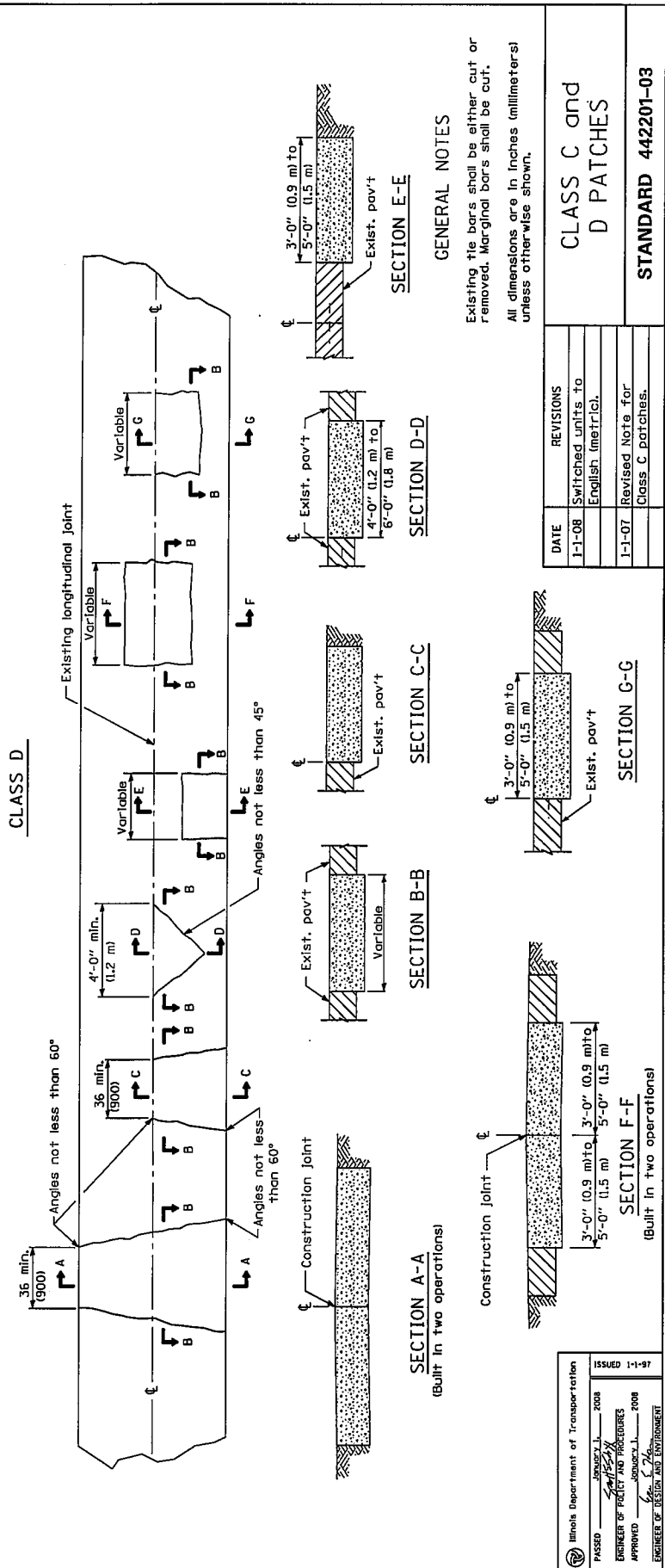
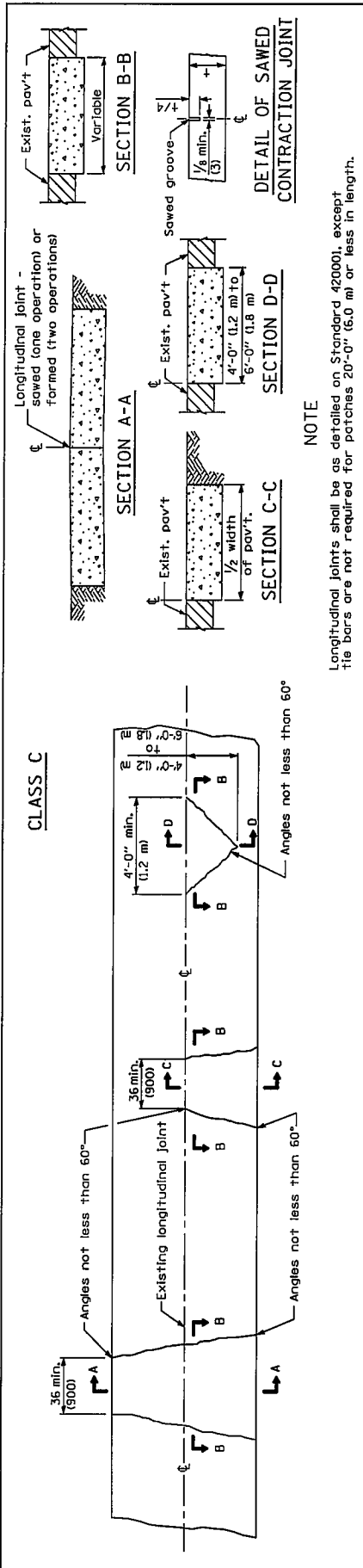
* When re-establishing a transverse expansion joint on a two-lane, two-way road, reverse the orientation of the dowel bars with respect to traffic for one of the patches such that the joint will be continuous across both lanes.

Illinois Department of Transportation		ISSUED	1-1-97
PASSED	January 1, 2008	APPROVED	January 1, 2008
ENGINEER OF FACILITY AND PROCEDURES		ENGINEER OF DESIGN AND ENVIRONMENT	

CLASS B PATCHES

(Sheet 2 of 2)

STANDARD 442101-07



GENERAL NOTES

Existing tie bars shall be either cut or removed. Marginal bars shall be cut, unless otherwise shown.

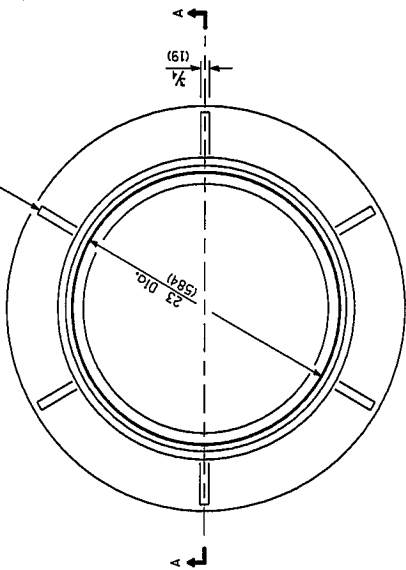
DATE	REVISIONS
1-1-08	Switched units to English (metric).
1-1-07	Revised Note for Class C patches.

CLASS C and D PATCHES

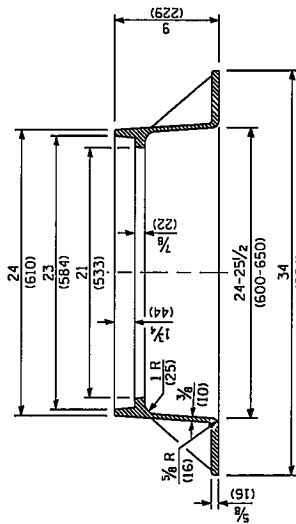
STANDARD 442201-03

Illinois Department of Transportation PASSED January 1, 2008 ENGINEER OF FACILITY AND PROCEDURES APPROVED January 1, 2008 ENGINEER OF DESIGN AND ENVIRONMENT	ISSUED 1-1-97
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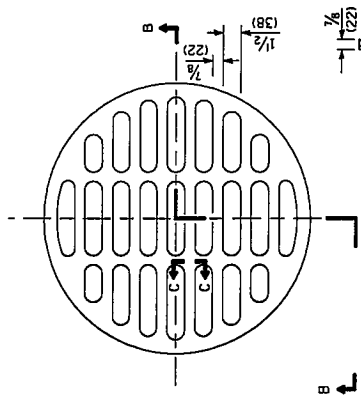
6 Gussets shown
8 Permitted



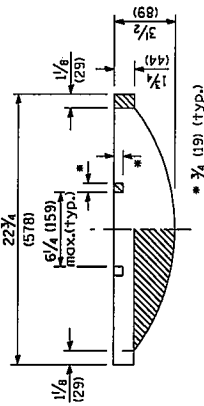
CAST FRAME



SECTION A-A
Gray Iron

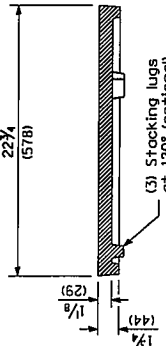
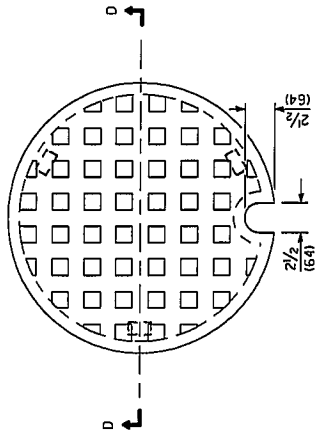


SECTION C-C



SECTION B-B

CAST OPEN LID



SECTION D-D

CAST CLOSED LID
Gray Iron Lid

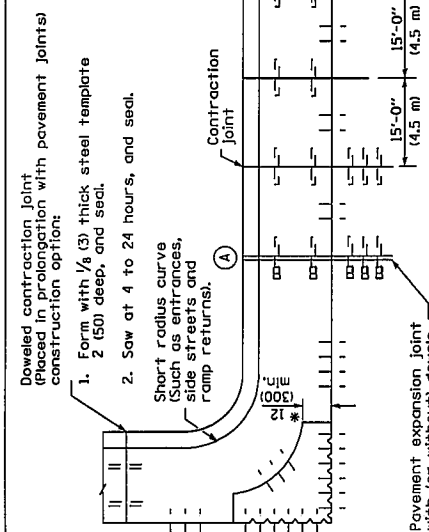
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation PASSED JANEVY, J. 2009 ENGINEER OF POLICY AND PROCEDURES APPROVED JANEVY, J. 2009 K. C. 2/2 ENGINEER OF DESIGN AND ENVIRONMENT	ISSUED 1-1-97
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DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-04	Removed weights.

FRAME AND LIDS
TYPE 1

STANDARD 604001-03



- Doweled contraction joint (Placed in prolongation with pavement joints) construction option:
- Form with 1/8 (3) thick steel template 2 (50) deep, and seal.
 - Saw at 4 to 24 hours, and seal.
- Short radius curve (Shown as entrances, side streets, and ramp returns).



Full depth & width 1 (25) thick (min) preformed expansion joint filler.

* 1.0 m min. (3'-0")

* 3'-0" min. (1.0 m)

* This dimension shall be adjusted to align with joint on the adjacent pavement

18 (450) long dowel bar placed at mid-depth.

2-No. 4 (No. 13) bars with 2 (50) min. cl. placed at mid-depth (when space permits)

2-No. 4 (No. 13) bars placed at mid-depth (when space permits)

Drainage casting without curb box

Back of curb

Expansion cap

DETAIL (A)

EXPANSION JOINT

Gutter flag width as required for curb type. Slope 5% max.

Pavement

Tie bar

GENERAL NOTES

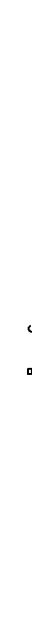
The bottom slope of combination curb and gutter constructed adjacent to pcc pavement shall be the same slope as the subbase or 6% when subbase is omitted.

† = 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.

All dimensions are in inches (millimeters) unless otherwise shown.



Mountable curb shown (other types permitted)

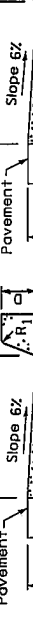
9 (225) when PCC base course ≤ 8 (200)

10 (250) when PCC base course > 8 (200)

HMA surfacing

PCC base course

ADJACENT TO PCC BASE COURSE WITH HMA SURFACING



ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE

BARRIER CURB

TABLE OF DIMENSIONS BARRIER CURB

TYPE	A	B	C	D	R ₁	R ₂
B-6.12	12	1	6	6	1	1
(B-15.3)	(300)	(25)	(150)	(150)	(25)	(25)
B-6.18	18	1	6	6	1	1
(B-15.45)	(450)	(25)	(150)	(150)	(25)	(25)
B-6.24	24	1	6	6	1	1
(B-15.60)	(600)	(25)	(150)	(150)	(25)	(25)
B-9.12	12	2	5	9	1	1
(B-22.30)	(300)	(50)	(125)	(225)	(25)	(25)
B-9.18	18	2	5	9	1	1
(B-22.45)	(450)	(50)	(125)	(225)	(25)	(25)
B-9.24	24	2	5	9	1	1
(B-22.60)	(600)	(50)	(125)	(225)	(25)	(25)

TABLE OF DIMENSIONS MOUNTABLE CURB

TYPE	A	B	C	D	R ₁	R ₂
M-2.06	6	2	4	2	3	2
(M-5.15)	(150)	(50)	(100)	(50)	(75)	(50)
M-2.12	12	2	4	2	3	2
(M-5.30)	(300)	(50)	(100)	(50)	(75)	(50)
M-4.06	6	4	3	4	3	NA
(M-10.15)	(150)	(100)	(75)	(100)	(75)	NA
M-4.12	12	4	3	4	3	NA
(M-10.30)	(300)	(100)	(75)	(100)	(75)	NA
M-4.18	18	4	3	4	3	NA
(M-10.45)	(450)	(100)	(75)	(100)	(75)	NA
M-4.24	24	4	3	4	3	NA
(M-10.60)	(600)	(100)	(75)	(100)	(75)	NA
M-6.06	6	6	2	6	2	NA
(M-15.15)	(150)	(150)	(50)	(150)	(50)	NA
M-6.12	12	6	2	6	2	NA
(M-15.30)	(300)	(150)	(50)	(150)	(50)	NA
M-6.18	18	6	2	6	2	NA
(M-15.45)	(450)	(150)	(50)	(150)	(50)	NA
M-6.24	24	6	2	6	2	NA
(M-15.60)	(600)	(150)	(50)	(150)	(50)	NA

CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

STANDARD 606001-04

REVISIONS

DATE	Switched units to English metric.
1-1-09	Switched units to Hot-Mix Asphalt (HMA) Terminology.

CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER (Sheet 1 of 2)

ISSUED 1-1-97

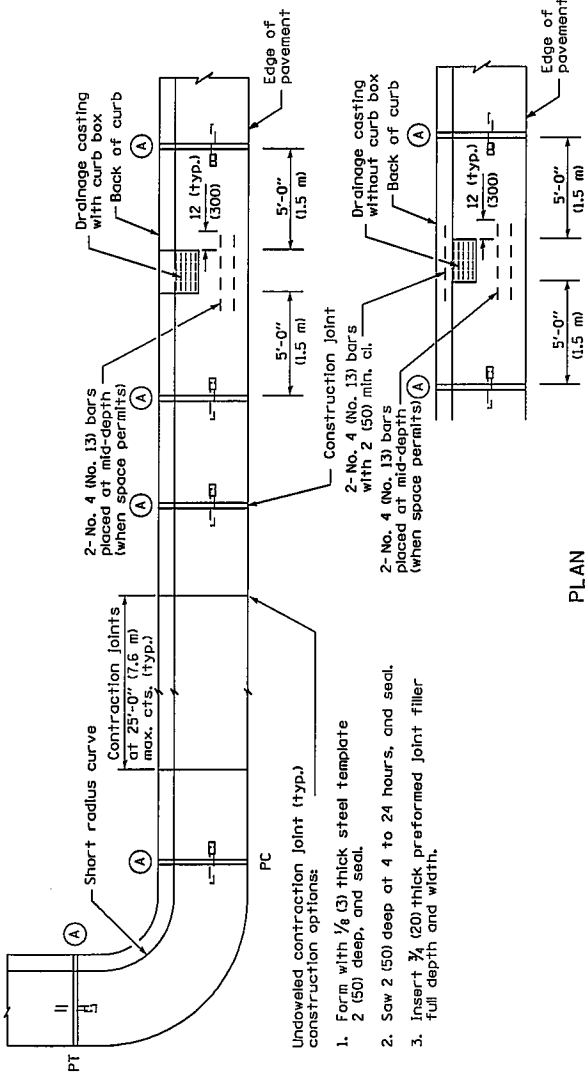
ILLINOIS DEPARTMENT OF TRANSPORTATION

PASSED JANUARY 1, 2009

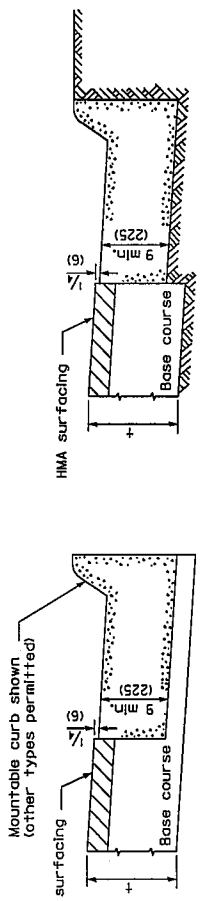
ENGINEER OF POLICY AND PROCEDURES

APPROVED JANUARY 1, 2009

ENGINEER OF DESIGN AND ENVIRONMENT



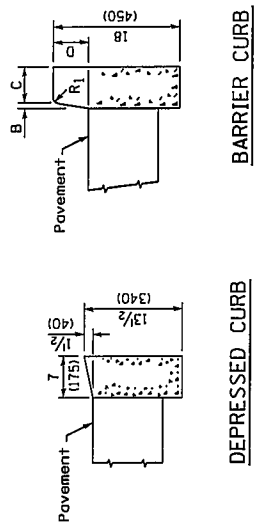
PLAN



ON DISTURBED SUBGRADE

ON UNDISTURBED SUBGRADE

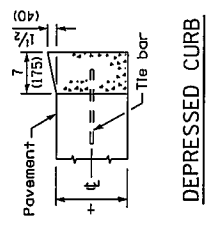
ADJACENT TO FLEXIBLE PAVEMENT



DEPRESSED CURB

BARRIER CURB

ADJACENT TO FLEXIBLE PAVEMENT



DEPRESSED CURB

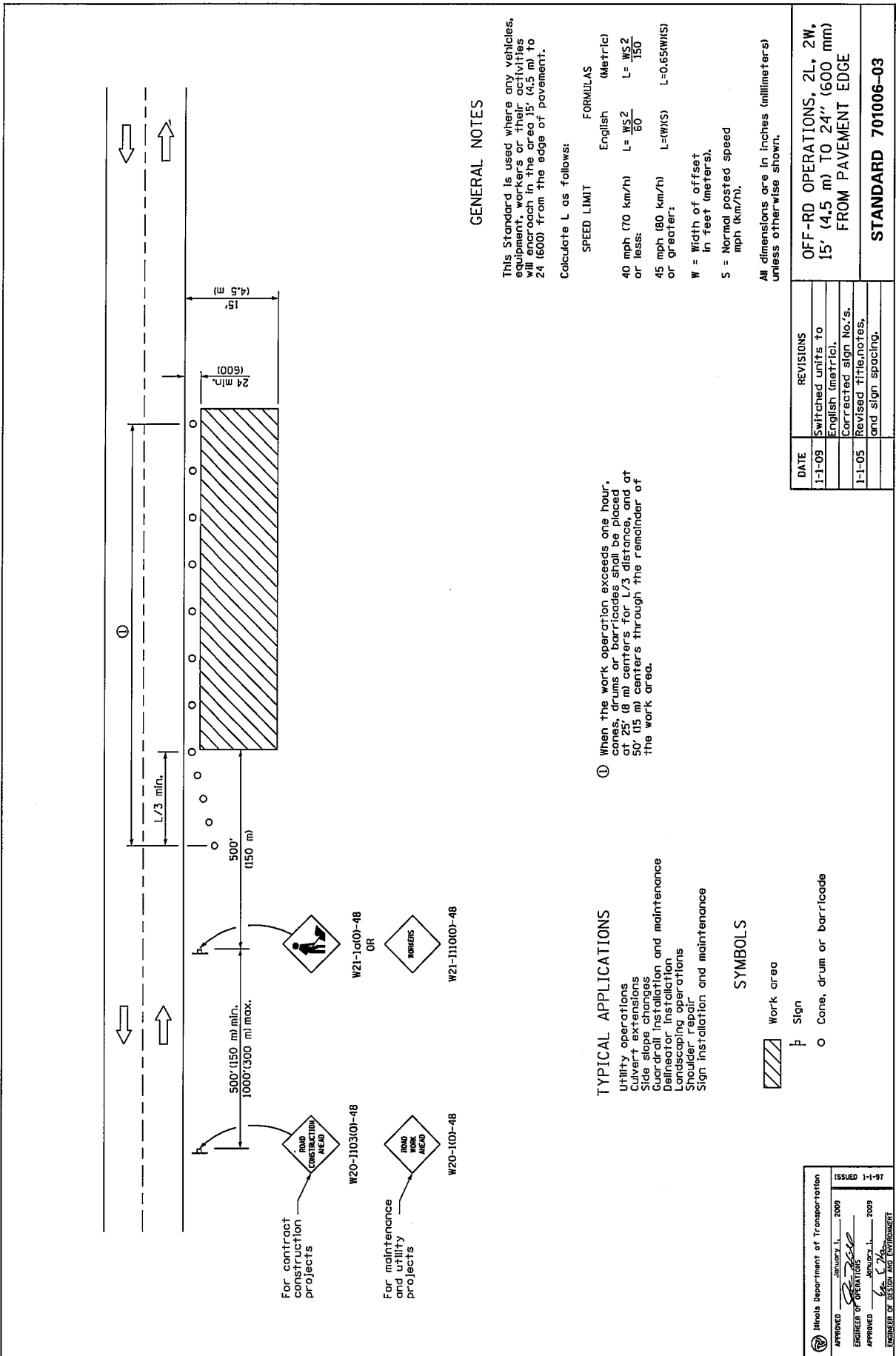
BARRIER CURB

ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE

CONCRETE CURB TYPE B

CONCRETE CURB TYPE B
 AND COMBINATION
 CONCRETE CURB AND GUTTER
 (Sheet 2 of 2)
STANDARD 606001-04

Illinois Department of Transportation
 PASSED JANUARY 1, 2009
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED JANUARY 1, 2009
 ENGINEER OF DESIGN AND ENVIRONMENT



GENERAL NOTES

This Standard is used where any vehicles, equipment, workers or their activities will be in the area 15' (4.5 m) to 24' (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	English	FORMULAS	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$		$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$		$L = 0.65(W)(S)$

W = Width of offset in feet (meters).
 S = Normal posted speed mph (km/h).

① When the work operation exceeds one hour, cones, drums or barricades shall be placed 50' (15 m) centers through the remainder of the work area.

TYPICAL APPLICATIONS

- Utility operations
- Culvert extensions
- Side slope changes
- Guardrail installation and maintenance
- Delinquent installation
- Landscaping operations
- Shoulder repair
- Sign installation and maintenance

SYMBOLS

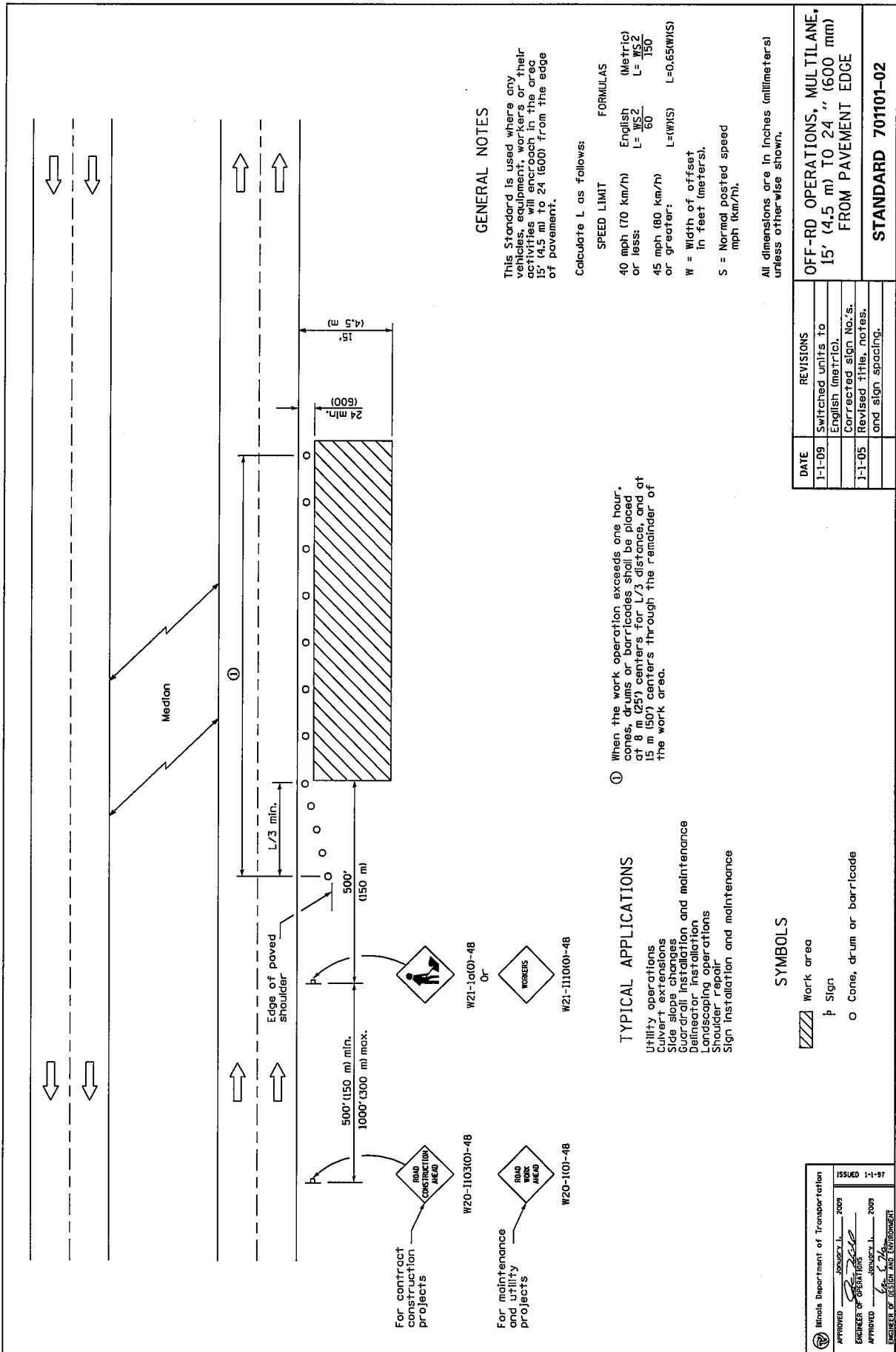
- Work area
- Sign
- Cone, drum or barricade

Illinois Department of Transportation APPROVED: <i>[Signature]</i> January 1, 2009 ENGINEER OF OPERATIONS APPROVED: <i>[Signature]</i> January 1, 2009 ENGINEER OF DESIGN AND ENVIRONMENT	ISSUED 1-1-97

DATE	REVISIONS
1-1-09	Switched units to English (metric).
	Corrected sign No.'s.
1-1-05	Revised title, notes, and sign spacing.

OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE

STANDARD 701006-03



GENERAL NOTES

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24' (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT FORMULAS
 40 mph (70 km/h) or less: English L = $\frac{WS^2}{150}$ (Metric) L = $\frac{WS^2}{150}$
 45 mph (80 km/h) or greater: English L = $\frac{WS^2}{150}$ (Metric) L = $\frac{WS^2}{150}$
 W = Width of offset in feet (meters).
 S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 8 m (25') centers for L/3 distance, and at 15 m (50') centers through the remainder of the work area.

TYPICAL APPLICATIONS

- Utility operations
- Sign extensions
- Shoulder installation
- Guardrail installation and maintenance
- Delimitation installation
- Landscaping operations
- Shoulder repair
- Sign installation and maintenance

SYMBOLS

- Work area
- Sign
- Cone, drum or barricade

For contract construction projects: W20-1103(00)-48 ROAD CONSTRUCTION AHEAD

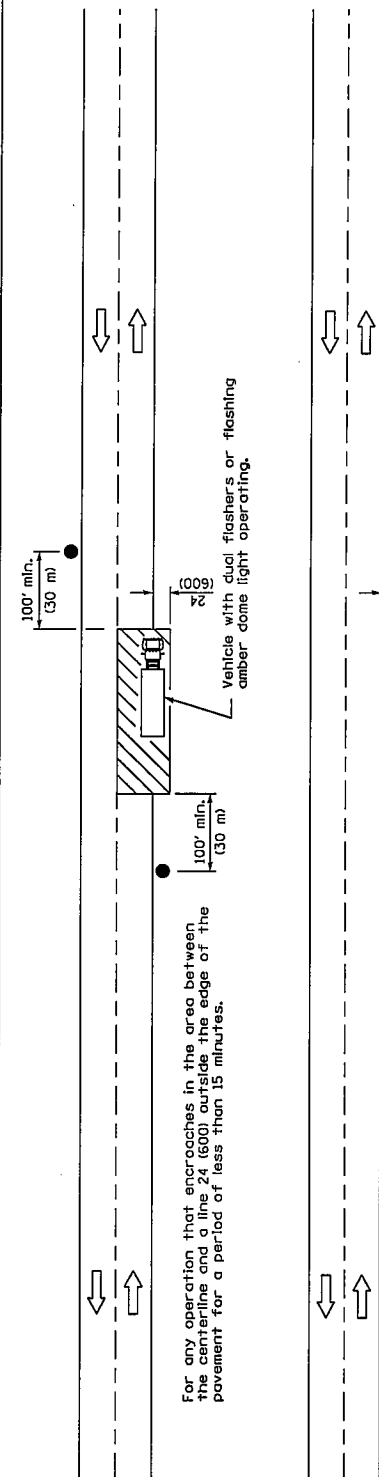
For maintenance and utility projects: W20-1101(00)-48 ROAD WORK AHEAD

Illinois Department of Transportation	
APPROVED	ISSUED 1-1-97
DESIGNED BY	2008
ENGINEER OF OPERATIONS	2009
APPROVED	2009
DESIGNED BY	2008
ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-09	Switched units to English (metric).
	Corrected sign No.'s.
1-1-05	Revised title, notes, and sign spacing.

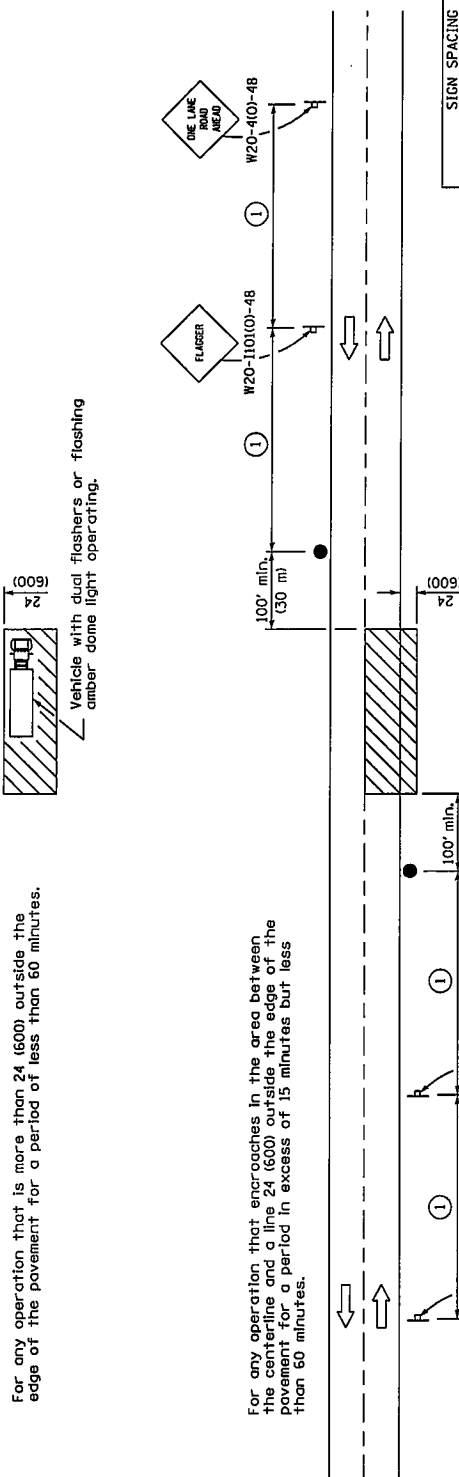
OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24'' (600 mm) FROM PAVEMENT EDGE

STANDARD 701101-02



For any operation that encroaches in the area between the centerline and a line 24 (600) outside the edge of the pavement for a period of less than 15 minutes.

For any operation that is more than 24 (600) outside the edge of the pavement for a period of less than 60 minutes.



For any operation that encroaches in the area between the centerline and a line 24 (600) outside the edge of the pavement for a period in excess of 15 minutes but less than 60 minutes.

Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

(1) = Refer to SIGN SPACING Table for distances.

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

Illinois Department of Transportation

ISSUED 1-1-91

APPROVED _____ 2009

ENGINEER OF OPERATIONS

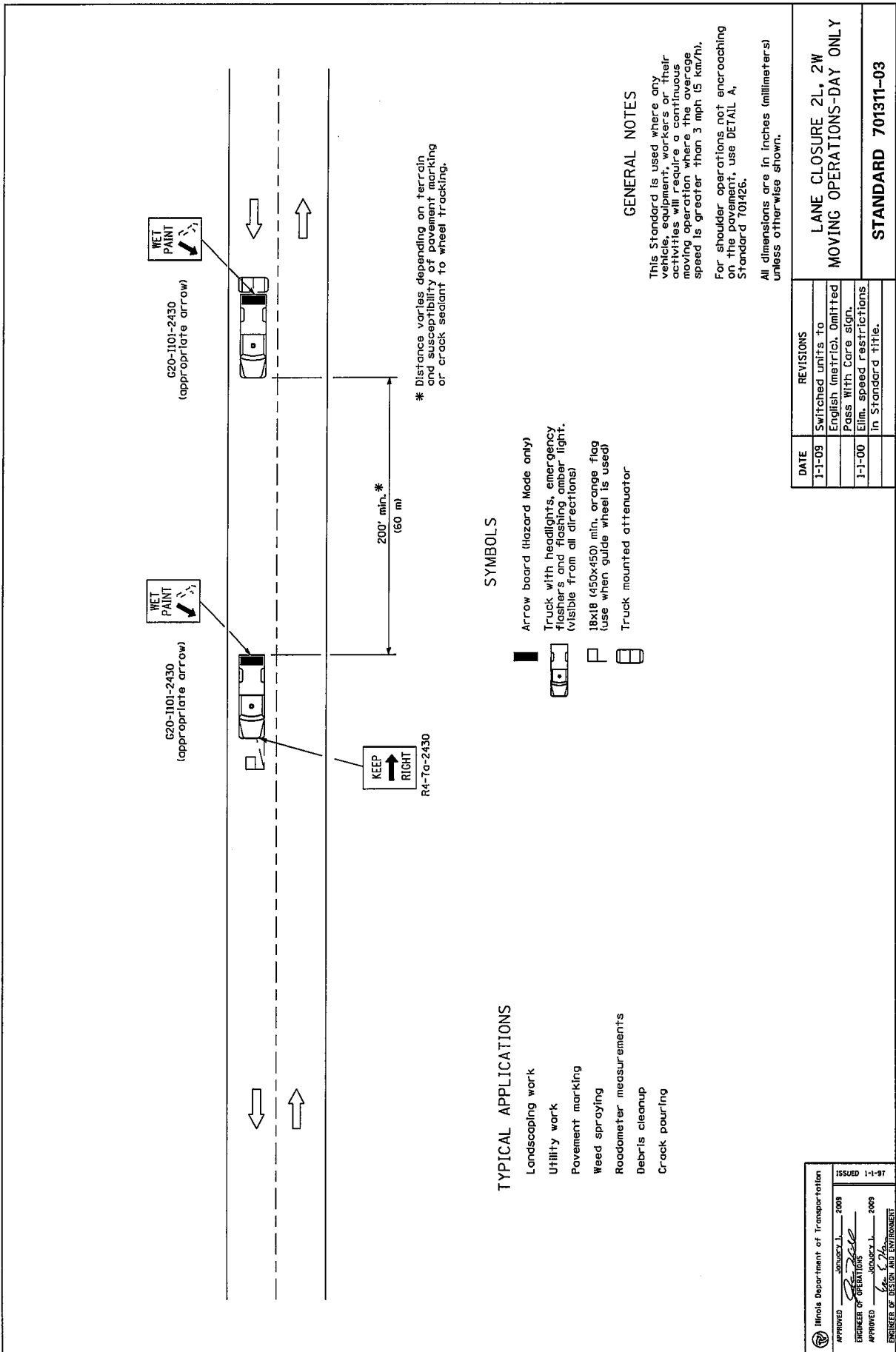
APPROVED _____ 2009

ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-05	Deleted FLAGGER SYMBOL SIGN.

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

STANDARD 701301-03



TYPICAL APPLICATIONS

- Landslipping work
- Utility work
- Pavement marking
- Weed spraying
- Roadometer measurements
- Debris cleanup
- Crack pouring

SYMBOLS

- Arrow board (Hazard Mode only)
- Truck with headlights, emergency flashers and flashing amber light. (visible from all directions)
- 18x18 (450x450) min. orange flag use when guide wheel is used
- Truck mounted attenuator

GENERAL NOTES

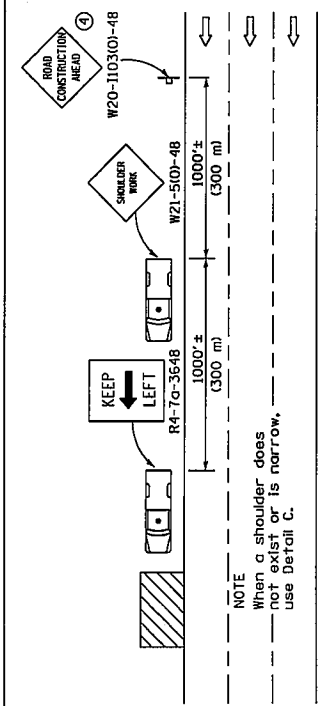
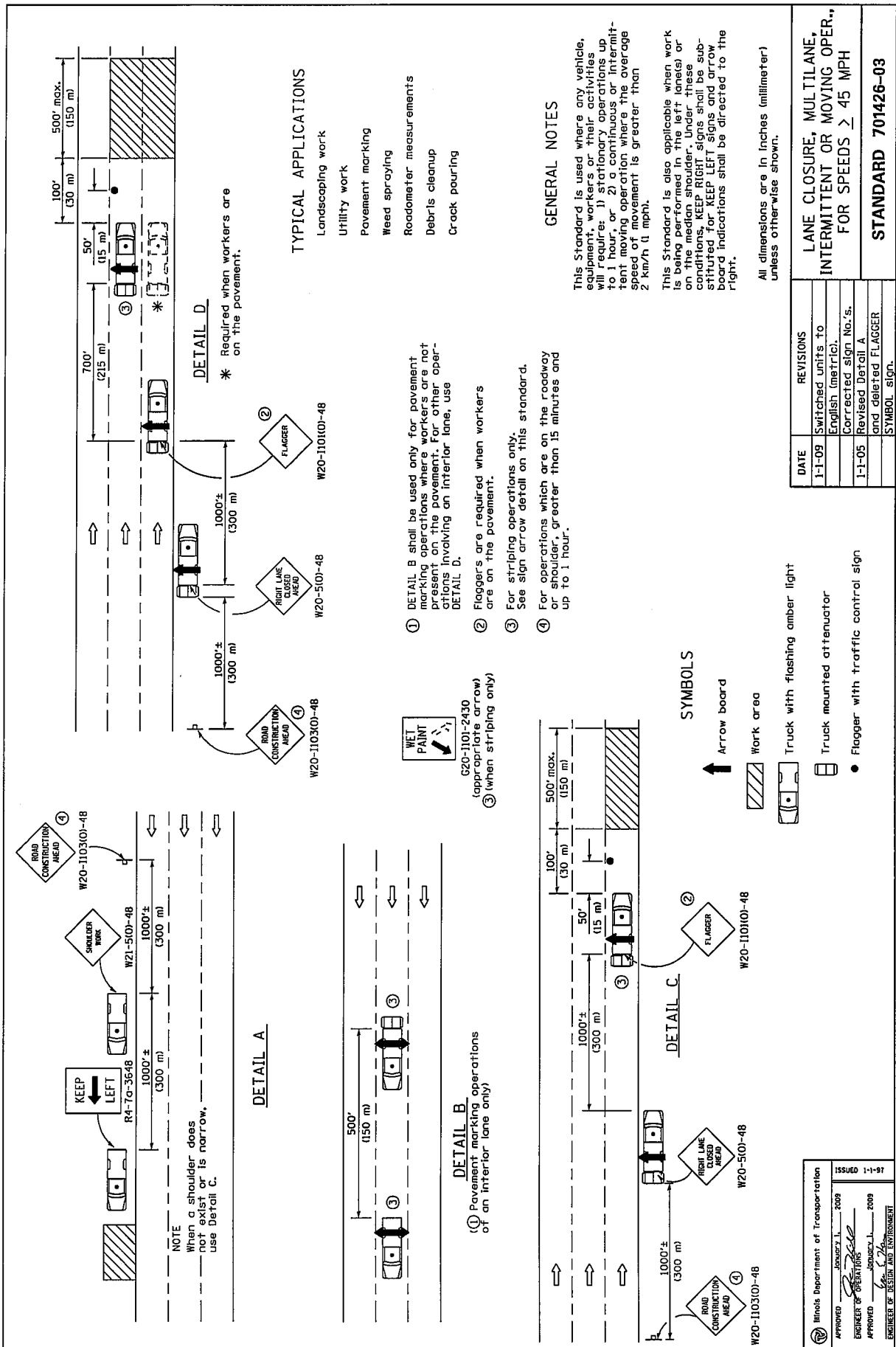
This Standard is used where any vehicle, equipment, workers or their activities will require a continuous moving operation where the average speed is greater than 5 mph (5 km/h).
 For shoulder operations, not encroaching on the pavement, use DETAIL A, Standard 701426.
 All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation		ISSUED 1-1-97
APPROVED	JANUARY 1, 2009	
ENGINEER OF OPERATIONS		
APPROVED	JANUARY 1, 2009	
ENGINEER OF DESIGN AND ENVIRONMENT		

DATE	REVISIONS
1-1-09	Switched units to English (metric). Omitted Pass With Care sign.
1-1-00	Elim. speed restrictions in Standard title.

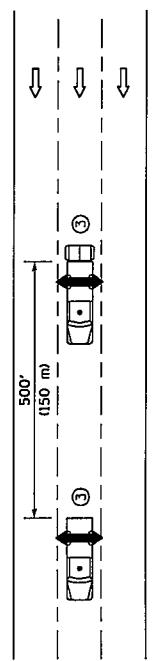
**LANE CLOSURE 2L, 2W
MOVING OPERATIONS-DAY ONLY**

STANDARD 701311-03



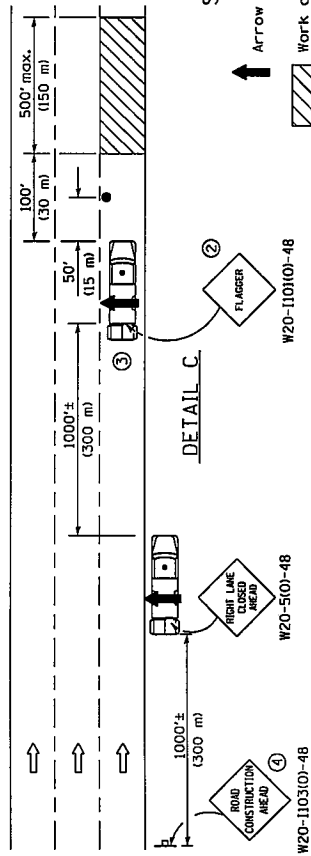
DETAIL A

NOTE
When a shoulder does not exist or is narrow, use Detail C.



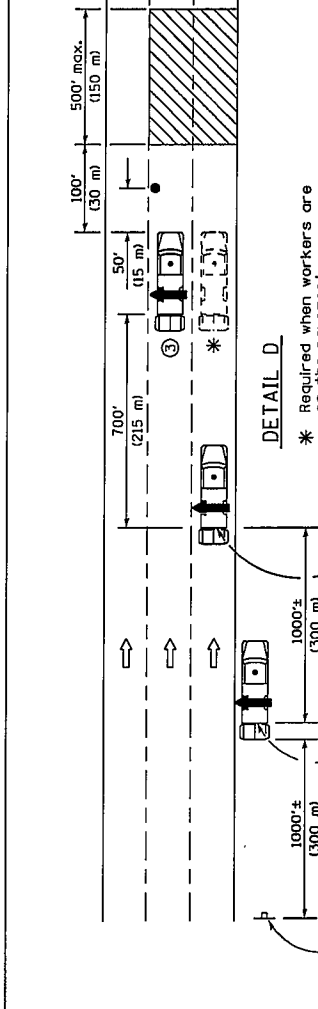
DETAIL B

① Pavement marking operations of an interior lane only



DETAIL C

- SYMBOLS**
- ↑ Arrow board
 - ▨ Work area
 - Truck with flashing amber light
 - Truck mounted attenuator
 - Flagger with traffic control sign



DETAIL D

* Required when workers are on the pavement.

TYPICAL APPLICATIONS

- Landscaping work
- Utility work
- Pavement marking
- Weed spraying
- Roadmeter measurements
- Debris cleanup
- Crack pouring

GENERAL NOTES

This Standard is used where any vehicle, equipment, workers or their activities will require: 1) stationary operations up to 1 hour, or 2) a continuous or intermittent moving operation where the average speed of movement is greater than 2 km/h (1 mph).

This Standard is also applicable when work is being performed in the left lane(s) or on the median shoulder. Under these conditions, KEEP RIGHT signs shall be substituted for KEEP LEFT signs and arrow board indications shall be directed to the right.

All dimensions are in inches (millimeter) unless otherwise shown.

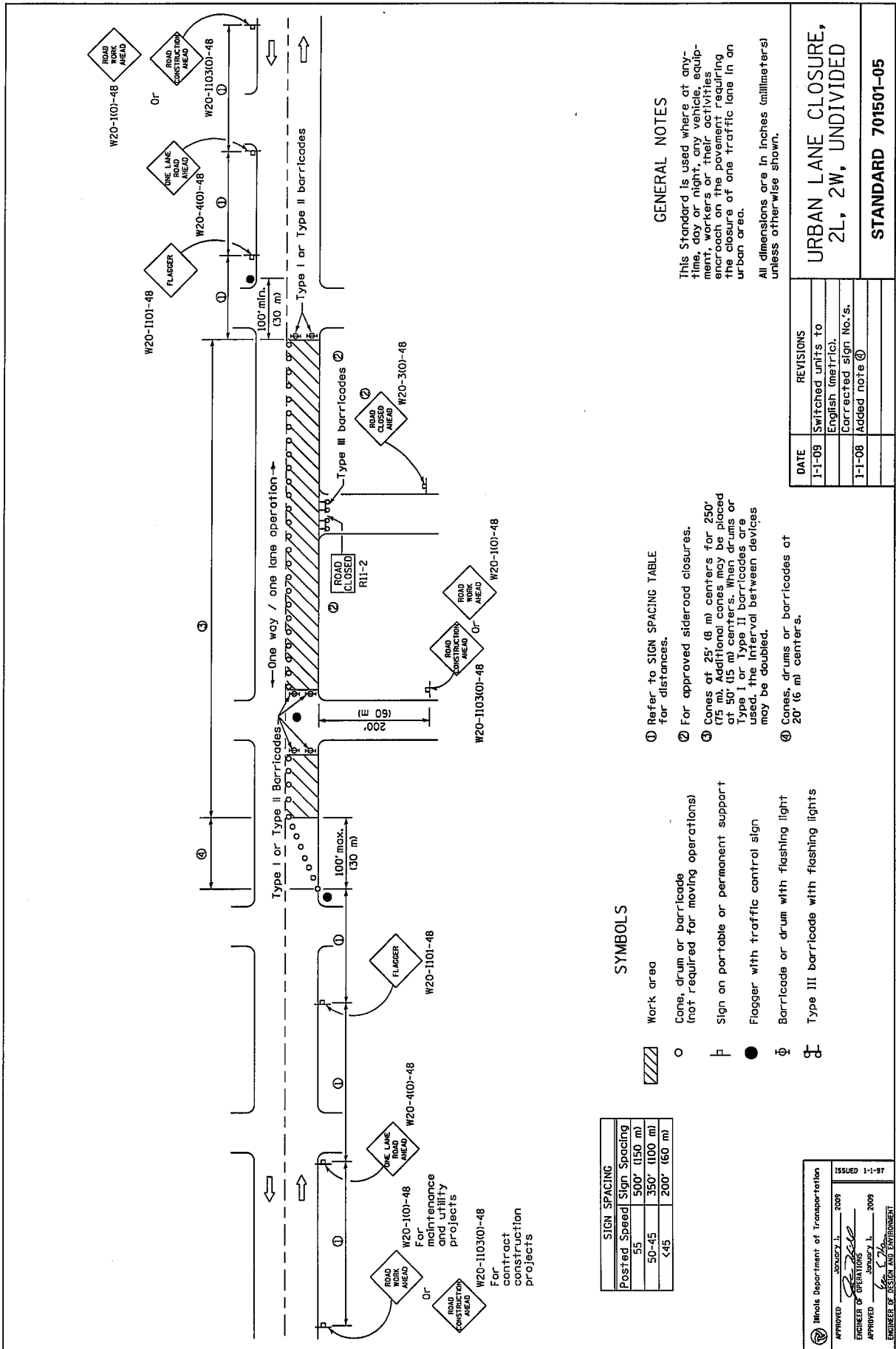
- ① DETAIL B shall be used only for pavement marking operations where workers are not present on the pavement. For other operations involving an interior lane, use DETAIL D.
- ② Flaggers are required when workers are on the pavement.
- ③ For striping operations only. See sign arrow detail on this standard.
- ④ For operations which are on the roadway or shoulder, greater than 15 minutes and up to 1 hour.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
	Corrected sign No.'s.
1-1-05	Revised Detail A and deleted FLAGGER SYMBOL sign.

LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS ≥ 45 MPH

STANDARD 701426-03

Illinois Department of Transportation APPROVED: JANECEY L. JANECEY L. 2009 ENGINEER OF OPERATIONS APPROVED: JANECEY L. JANECEY L. 2009 ENGINEER OF DESIGN AND ENVIRONMENT	ISSUED 1-1-97
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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.

**URBAN LANE CLOSURE,
2L, 2W, UNDIVIDED**

STANDARD 701501-05

DATE	REVISIONS
1-1-09	Switched units to English metric.
	Corrected sign No.'s.
1-1-08	Added note ④

- ① Refer to SIGN SPACING TABLE for distances.
- ② For approved sideroad closures.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 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.

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

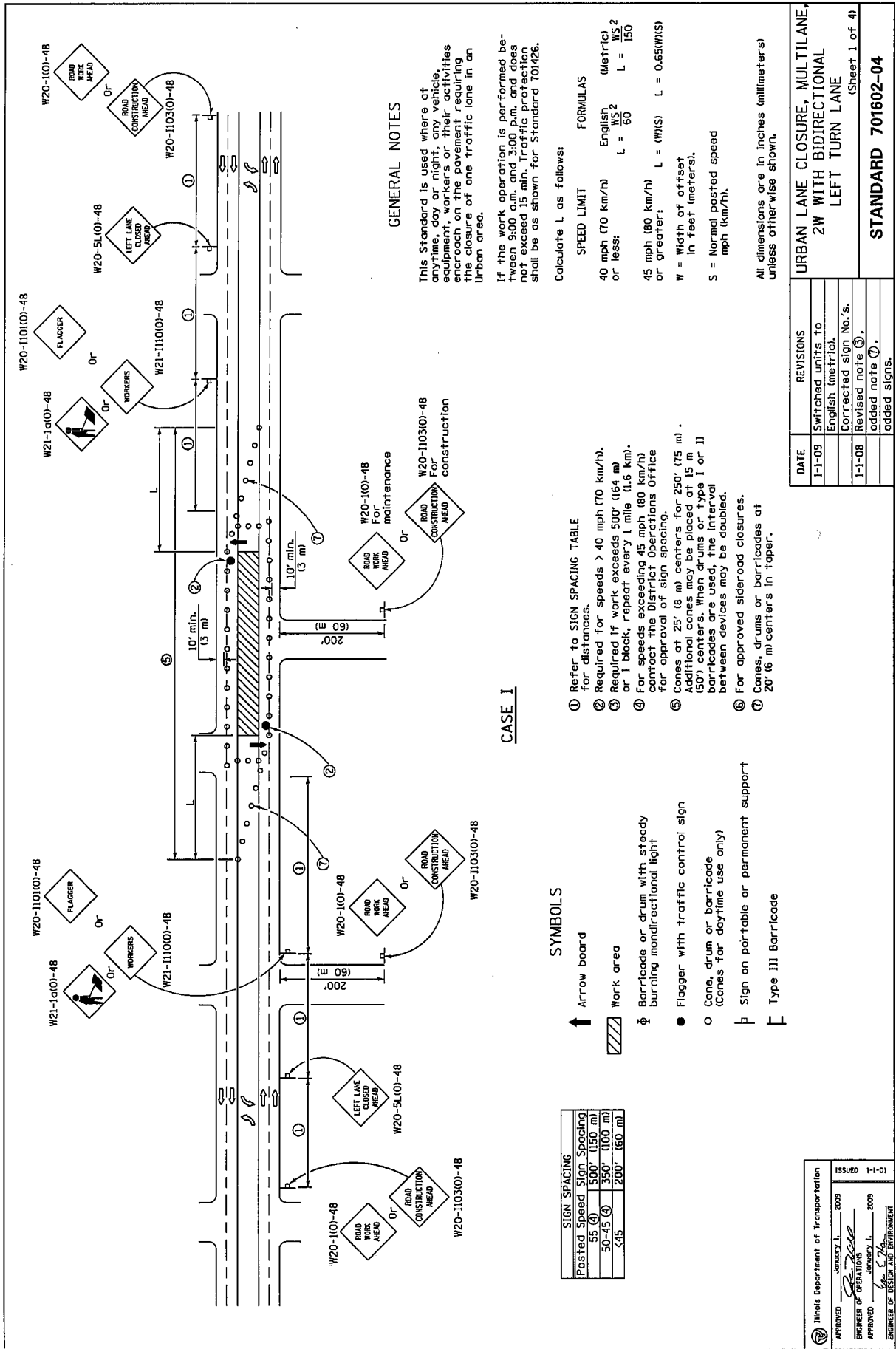
SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

Illinois Department of Transportation

ISSUED 1-1-97

APPROVED: *[Signature]* January 1, 2009
ENGINEER OF OPERATIONS

APPROVED: *[Signature]* January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT



GENERAL NOTES

This Standard is used where at anytime, 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.

If the work operation is performed between 9:00 a.m. and 3:00 p.m. and does not exceed 15 min. Traffic protection shall be as shown for Standard 701426.

Calculate L as follows:

SPEED LIMIT	FORMULAS
40 mph (70 km/h) or less:	English: $L = \frac{WS^2}{60}$ Metric: $L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W/S) \quad L = 0.65(W/S)$
	W = Width of offset in feet (meters).
	S = Normal posted speed mph (km/h).

CASE I

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 mph (70 km/h).
- ③ Required if work exceeds 500' (154 m) or 1 block, repeat every 1 mile (1.6 km).
- ④ For speeds exceeding 45 mph (80 km/h) contact the District Operations Office for approval of sign spacing.
- ⑤ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 15 m (50') centers. When drums or Type I or II barricades are used, the interval between devices may be doubled.
- ⑥ For approved sideroad closures.
- ⑦ Cones, drums or barricades at 20' (6 m) centers in taper.

SYMBOLS

- ↑ Arrow board
- Work area
- ⊕ Barricade or drum with steady burning monodirectional light
- Flagger with traffic control sign
- Cone, drum or barricade (Cones for daytime use only)
- ▬ Sign on portable or permanent support
- ▬ Type III Barricade

Posted Speed	Sign Spacing
55 (90)	500' (150 m)
50-45 (80)	350' (100 m)
<45	200' (60 m)

Illinois Department of Transportation

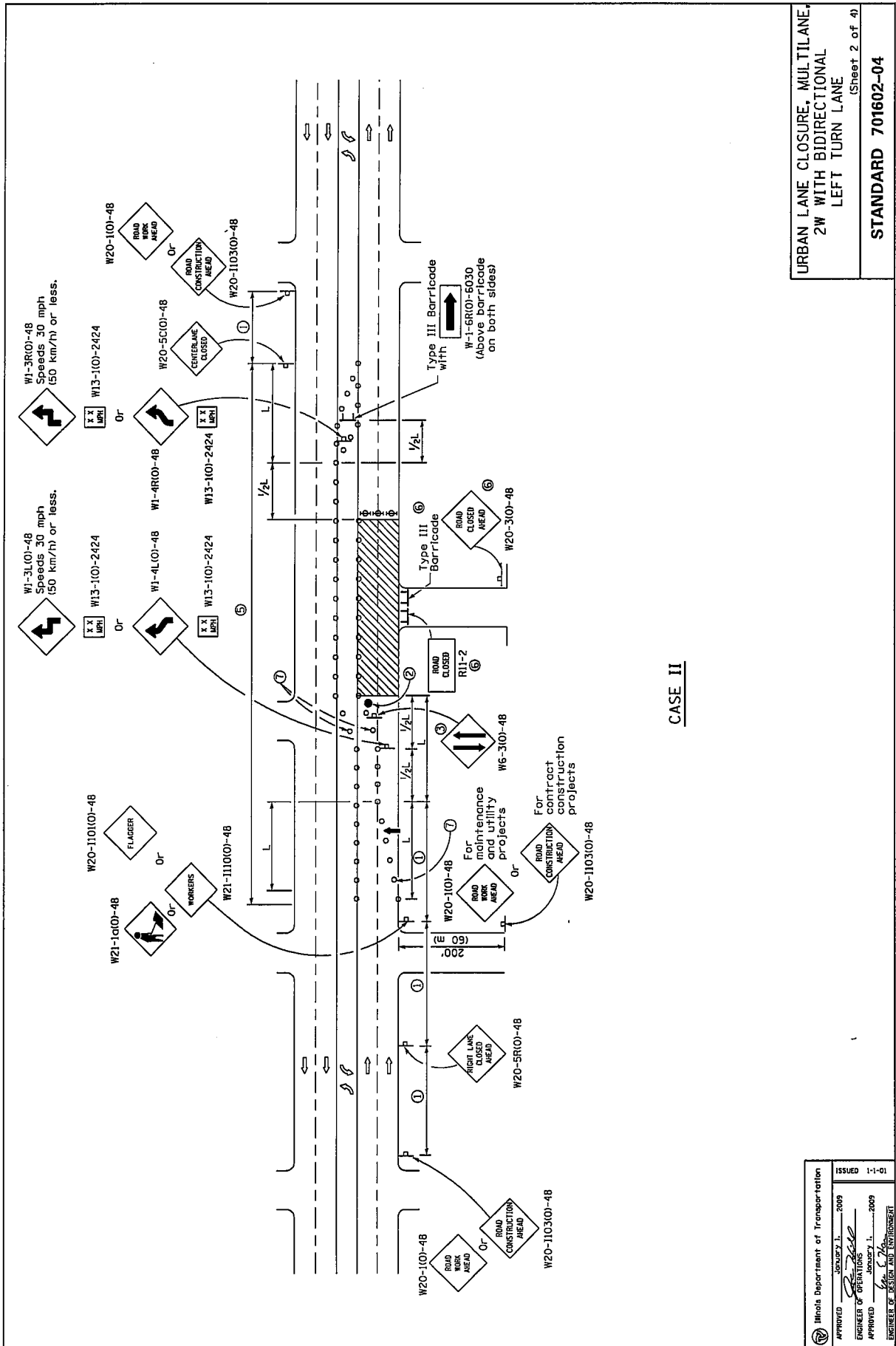
APPROVED: *[Signature]* January 1, 2009
 ENGINEER OF OPERATIONS

APPROVED: *[Signature]* January 1, 2009
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-01

DATE	REVISIONS
1-1-09	Switched units to English/metric.
	Corrected sign No.'s.
1-1-08	Revised note ③, added note ⑦, added signs.

URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
 STANDARD 701602-04
 (Sheet 1 of 4)



W1-3R(O)-48
Speeds 30 mph
(50 km/h) or less.

W1-3L(O)-48
Speeds 30 mph
(50 km/h) or less.

W20-110(O)-48
FLAGGER

W21-1(O)-48
WORKERS

W20-110(O)-48
ROAD WORK AHEAD

W13-1(O)-2424
OR
W13-1(O)-2424

W1-4L(O)-48
OR
W1-4R(O)-48

W20-5(O)-48
CENTERLINE CLOSED

W20-110(O)-48
ROAD WORK AHEAD

W20-110(O)-48
FLAGGER

W21-1(O)-48
WORKERS

W20-110(O)-48
ROAD WORK AHEAD

W13-1(O)-2424
OR
W13-1(O)-2424

W1-4L(O)-48
OR
W1-4R(O)-48

W20-5(O)-48
CENTERLINE CLOSED

W20-110(O)-48
ROAD WORK AHEAD

W20-110(O)-48
ROAD WORK AHEAD

W20-5R(O)-48
ROAD CLOSED AHEAD

W20-110(O)-48
ROAD WORK AHEAD

W6-3(O)-48
ROAD CLOSED

W20-3(O)-48
ROAD CLOSED AHEAD

Type III Barricade
With
W-1-SR(O)-6030
(Above barricade
on both sides)

Type III Barricade

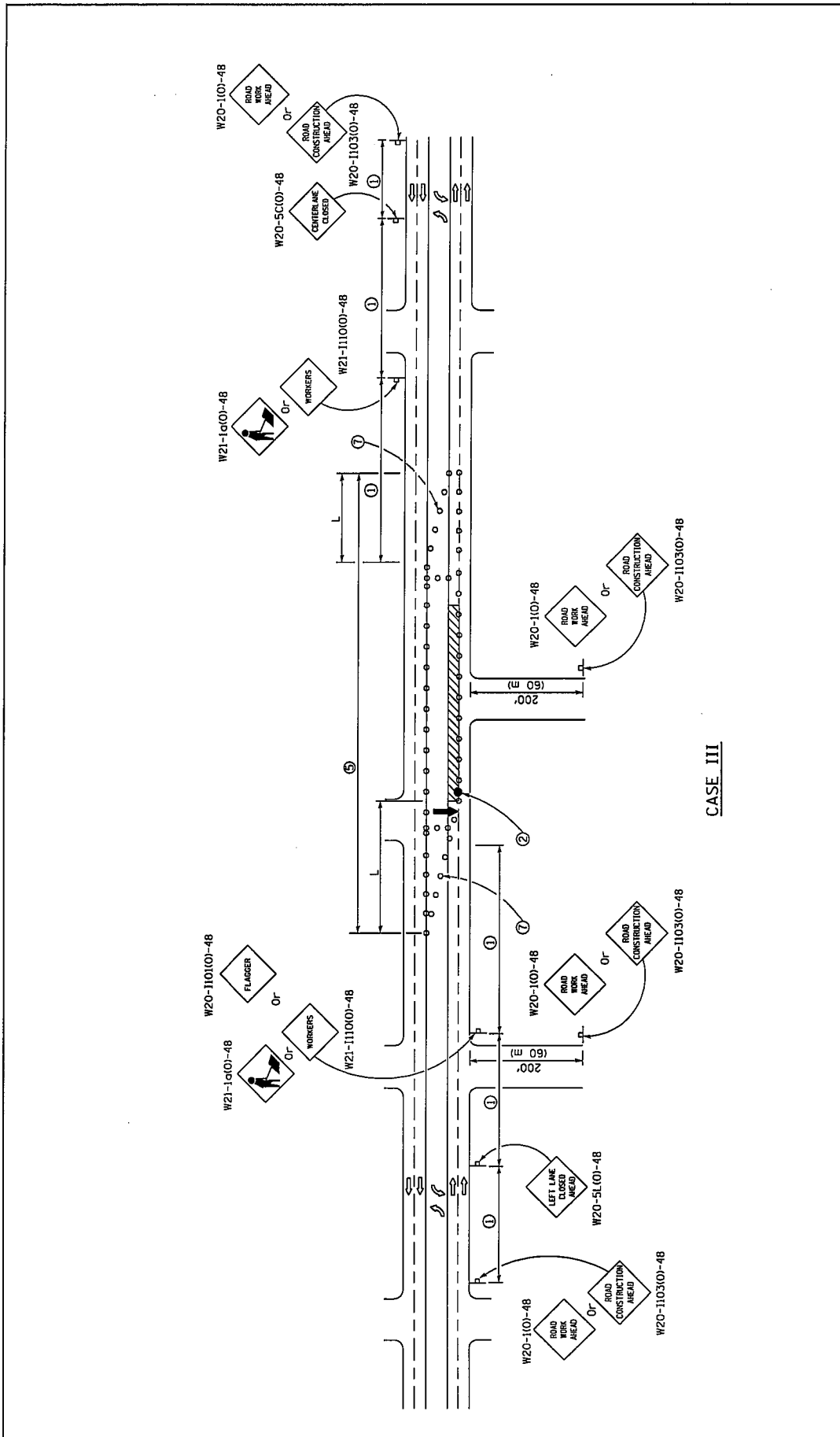
CASE II

URBAN LANE CLOSURE, MULTILANE,
2W WITH BIDIRECTIONAL
LEFT TURN LANE

(Sheet 2 of 4)

STANDARD 701602-04

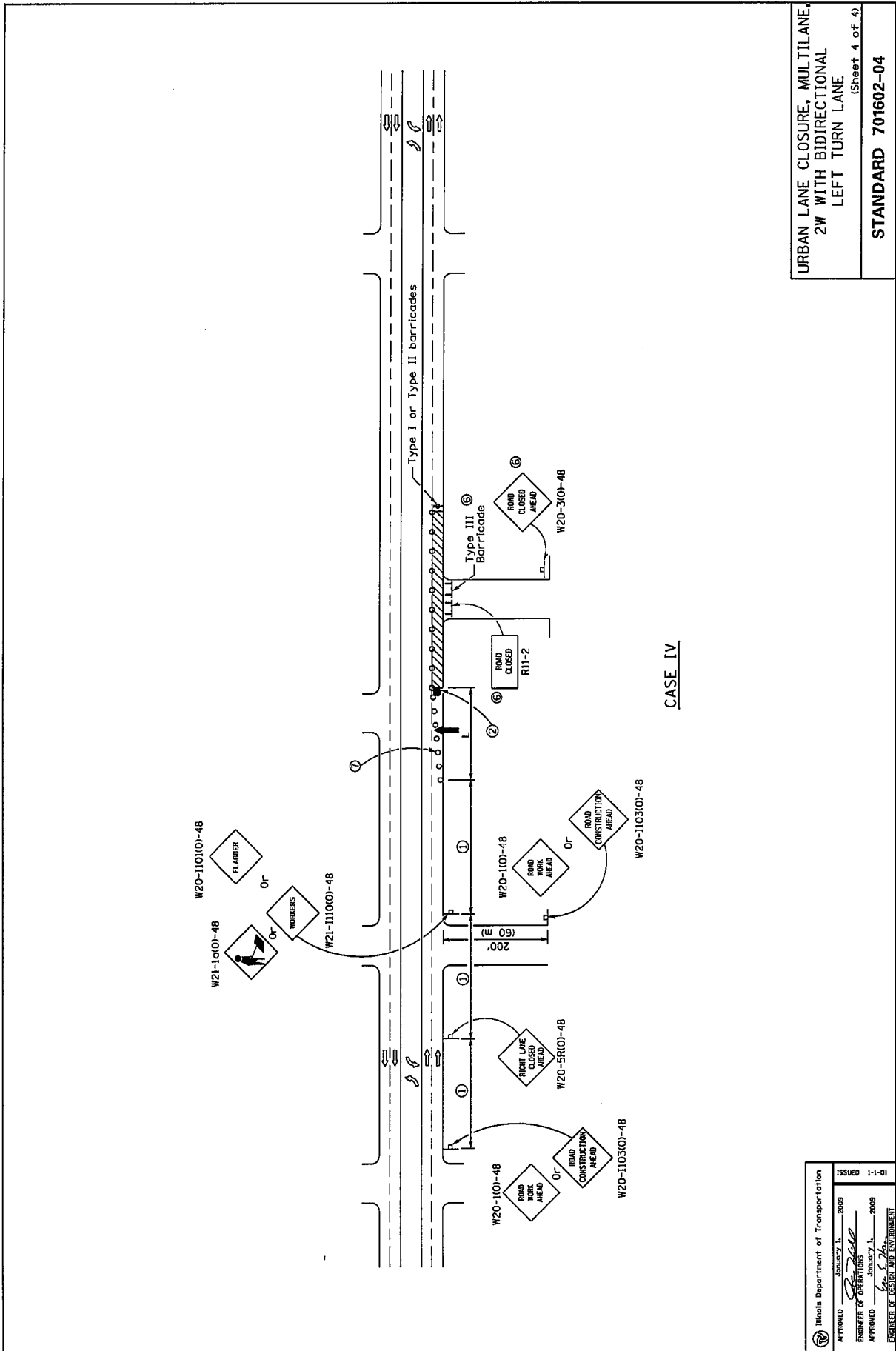
Illinois Department of Transportation		ISSUED	1-1-01
APPROVED	JANUARY 1, 2009		
ENGINEER OF OPERATIONS	<i>[Signature]</i>		
APPROVED	JANUARY 1, 2009		
ENGINEER OF DESIGN AND ENVIRONMENT	<i>[Signature]</i>		



CASE III

URBAN LANE CLOSURE, MULTILANE,
2W WITH BIDIRECTIONAL
LEFT TURN LANE
(Sheet 3 of 4)
STANDARD 701602-04

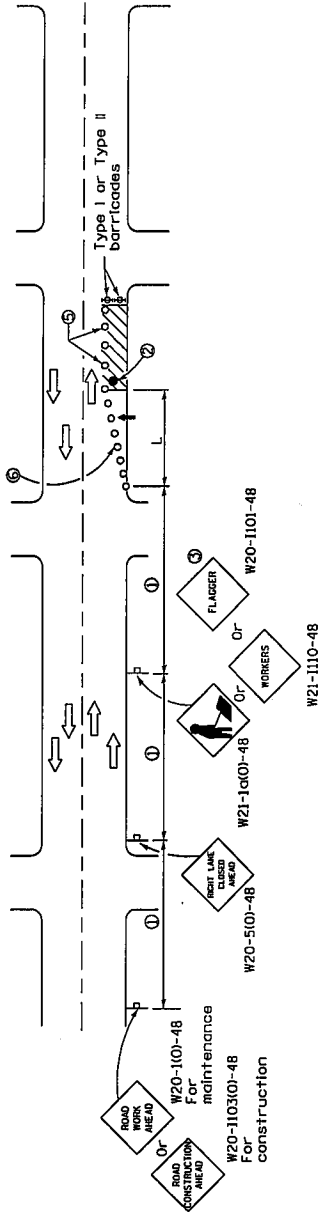
Illinois Department of Transportation APPROVED _____ ENGINEER OF OPERATIONS APPROVED _____ ENGINEER OF DESIGN AND ENVIRONMENT	JORDNEY L. _____ 2009	ISSUED 1-1-01
	JORDNEY L. _____ 2009	
	JORDNEY L. _____ 2009	
	JORDNEY L. _____ 2009	



URBAN LANE CLOSURE, MULTILANE,
2W WITH BIDIRECTIONAL
LEFT TURN LANE

(Sheet 4 of 4)
STANDARD 701602-04

Illinois Department of Transportation		ISSUED	1-1-01
APPROVED	JANUARY 1, 2009		
ENGINEER OF OPERATIONS			
APPROVED	JANUARY 1, 2009		
ENGINEER OF DESIGN AND ENVIRONMENT			



GENERAL NOTES

This Standard is used where at anytime, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one or more traffic lanes in an urban area.

Calculate L as follows:

SPEED LIMIT	English	Formula	Metric
40 mph (70 km/h) or less	$L = \frac{W \cdot S^2}{60}$	$L = (W/15) \cdot S^2$	150
45 mph (80 km/h) or greater	$L = (W/15) \cdot S^2$	$L = 0.65(W/S)$	

W = Width of offset in feet (meters).
S = Normal posted speed in mph (km/h).

① Refer to SIGN SPACING TABLE for distances.

② Required for speeds > 40 MPH

③ Use flagger sign only when flagger is present.

④ For approved sideroad closures.

⑤ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.

⑥ Cones, drums or barricades at 6' (20 m) centers in taper.

⑦ Repeat every 1 mile (1.6 km).

SYMBOLS

- ↑ Arrow board
- Cone, drum or barricade
- ⊥ Sign on portable or permanent support
- ▨ Work area
- ⊕ Barricade or drum with flashing light
- ⊕ Type III barricade with flashing lights
- Flagger with traffic control sign.

SIGN SPACING	Sign Spacing
Posted Speed 55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

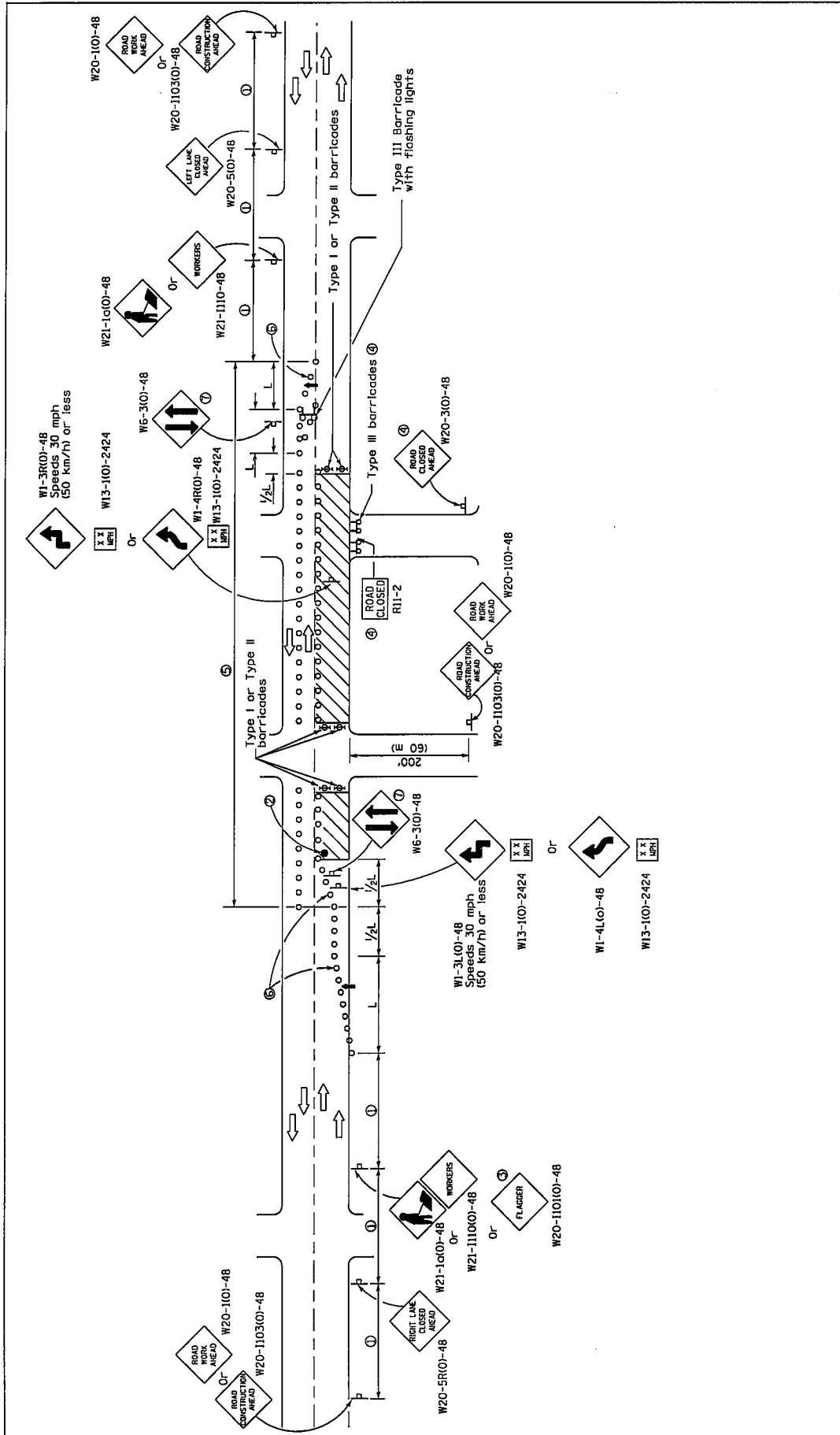
Illinois Department of Transportation
 APPROVED January 1, 2009
 ENGINEER OF OPERATIONS
 APPROVED January 1, 2009
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-09	Switched units to English (metric). Omitted large arrow signs.
1-1-08	Replaced arrow board with lane shift sign.
	Added notes ⑥ & ⑦

URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
 (Sheet 1 of 2)
STANDARD 701606-06

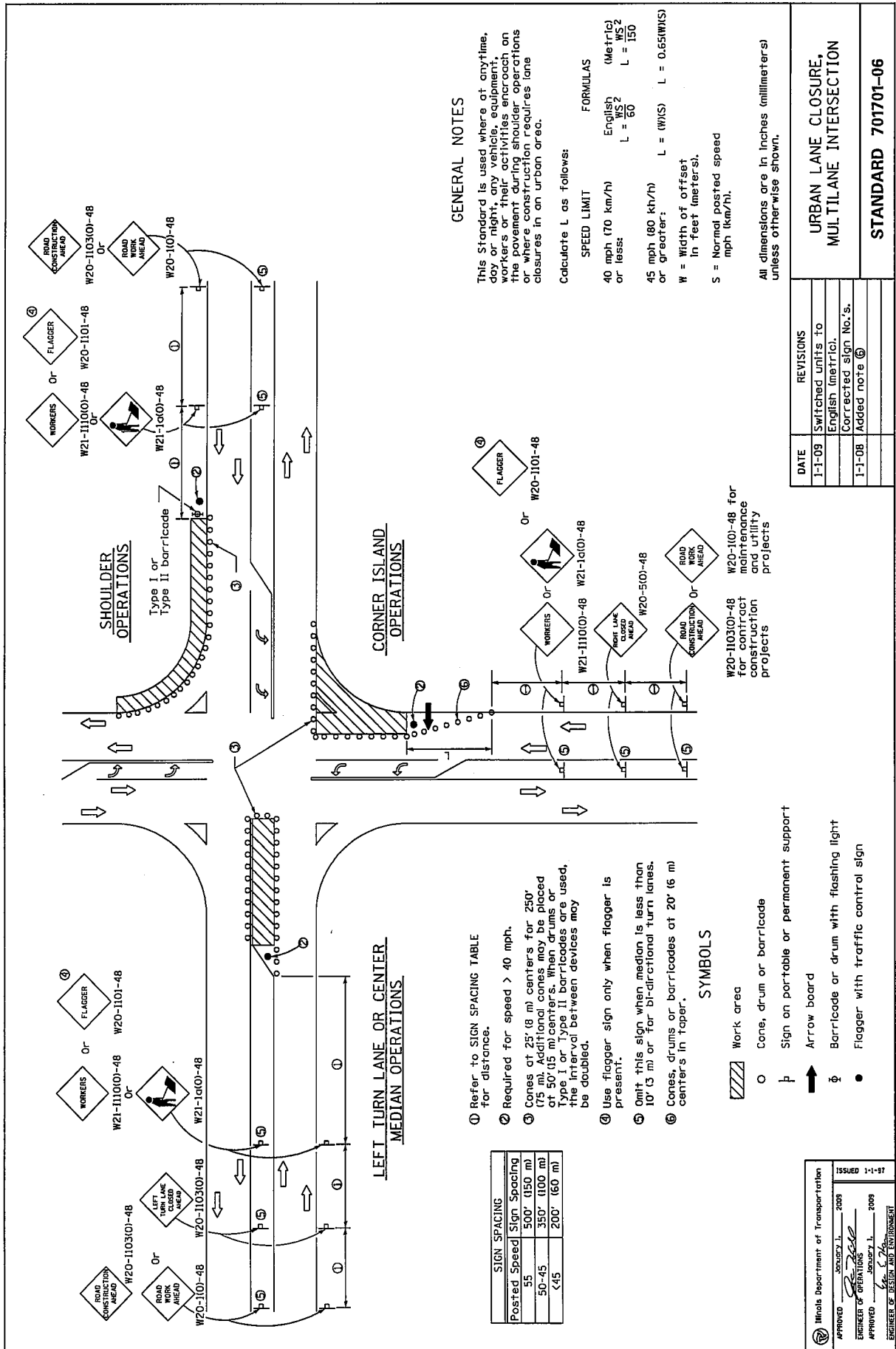
All dimensions are in inches (millimeters) unless otherwise shown.



URBAN LANE CLOSURE,
 MULTILANE, 2W WITH
 MOUNTABLE MEDIAN
 (Sheet 2 of 2)

STANDARD 701606-06

Illinois Department of Transportation APPROVED: JANUARY 1, 2009 ENGINEER OF OPERATIONS APPROVED: JANUARY 1, 2009 ENGINEER OF DESIGN AND ENVIRONMENT		ISSUED 1-1-97 662 5 26
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GENERAL NOTES

This Standard is used where, at anytime, day or night, any vehicles, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

Calculate L as follows:

SPEED LIMIT FORMULAS

40 mph (70 km/h) English (Metric)
 L = WS² L = 150
 or less:

45 mph (80 km/h) L = (W/S) L = 0.65(W/S)
 or greater:

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

REFER TO SIGN SPACING TABLE FOR DISTANCES.

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speed > 40 mph.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Use flagger sign only when flagger is present.
- ⑤ Omit this sign when median is less than 10' (3 m) or for bi-directional turn lanes.
- ⑥ Cones, drums or barricades at 20' (6 m) centers in taper.

Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

SYMBOLS

- ▨ Work area
- Cone, drum or barricade
- ⊥ Sign on portable or permanent support
- ➔ Arrow board
- ⊕ Barricade or drum with flashing light
- Flagger with traffic control sign

W20-1103101-48 for contract construction projects

W20-1101-48 for contract maintenance and utility projects

Illinois Department of Transportation

APPROVED: [Signature] JANUARY 1, 2009

ENGINEER OF OPERATIONS

APPROVED: [Signature] JANUARY 1, 2009

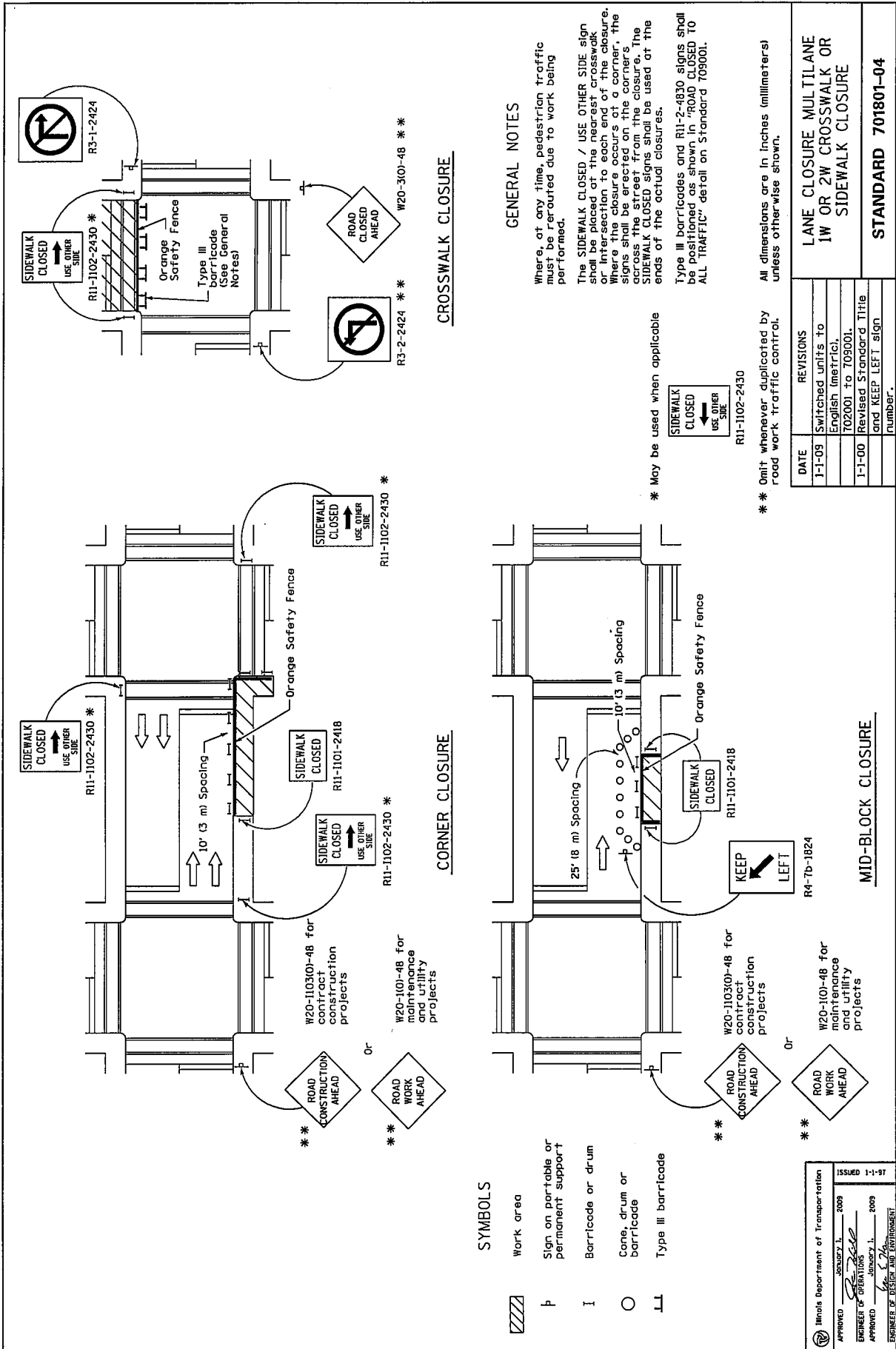
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-09	Switched units to English metric.
	Corrected sign No.'s.
1-1-08	Added note ⑥

URBAN LANE CLOSURE, MULTILANE INTERSECTION

STANDARD 701701-06



SYMBOLS

- Work area
- Sign on portable or permanent support
- Barricade or drum
- Cone, drum or barricade
- Type III barricade

GENERAL NOTES

Where, at any time, pedestrian traffic must be rerouted due to work being performed.

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 sign shall be placed on the corner's access to the work area. At the other end of the closure, the SIDEWALK CLOSED sign 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 709001.

* May be used when applicable

SIDEWALK CLOSED USE OTHER SIDE

R11-1102-2430

* Omit whenever duplicated by road work traffic control, unless otherwise shown.

CROSSWALK CLOSURE

CORNER CLOSURE

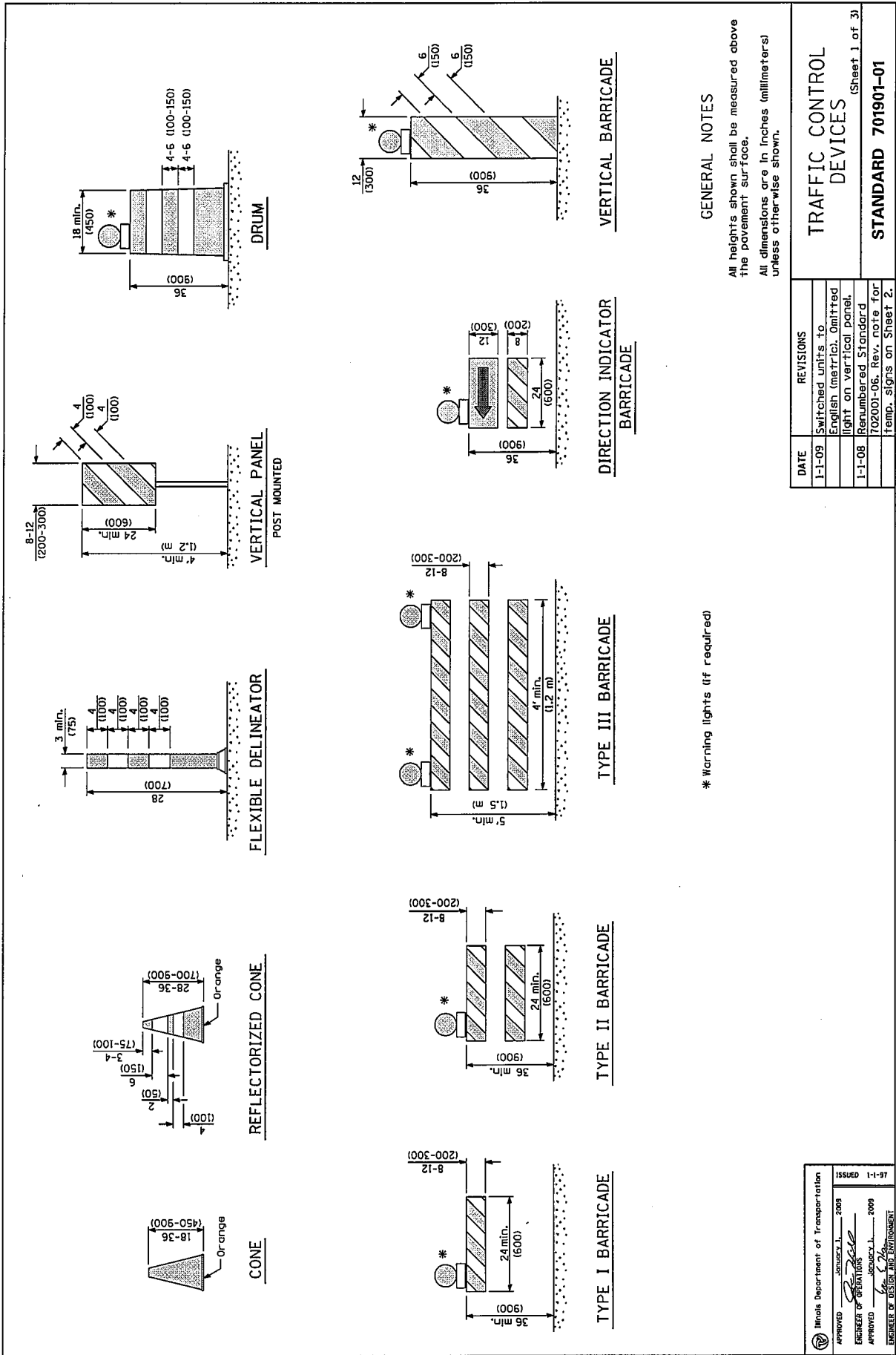
MID-BLOCK CLOSURE

APPROVED	ISSUED
JANUARY 1, 2009	1-1-97
ILLINOIS DEPARTMENT OF TRANSPORTATION	
ENGINEER OF OPERATIONS	
JANUARY 1, 2009	
APPROVED	
ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-00	Revised Standard Title and KEEP LEFT sign number.

LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE

STANDARD 701801-04



GENERAL NOTES
 All heights shown shall be measured above the pavement surface.
 All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric). Omitted light on vertical panel.
1-1-08	Renumbered Standard 702001-06. Rev. note for temp. signs on Sheet 2.

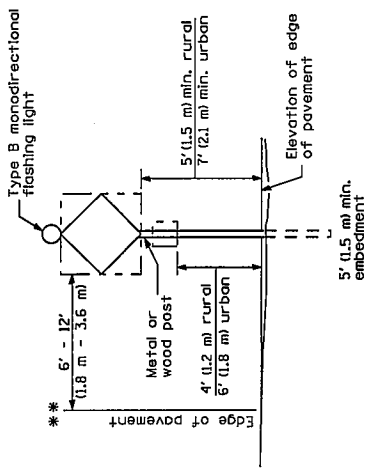
TRAFFIC CONTROL DEVICES
 (Sheet 1 of 3)

STANDARD 701901-01

* Warning lights (if required)

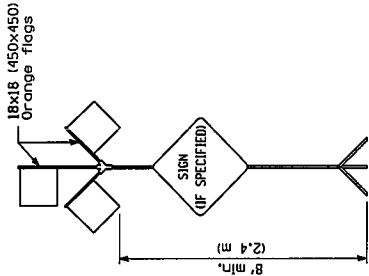
Illinois Department of Transportation
 APPROVED January 2, 2009
 ENGINEER OF OPERATIONS
 APPROVED January 2, 2009
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-09



POST MOUNTED SIGNS

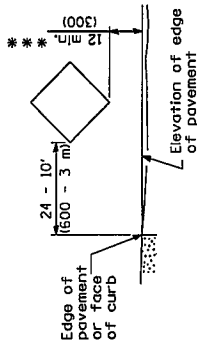
** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



HIGH LEVEL WARNING DEVICE

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 by motorists.



ROAD CONSTRUCTION NEXT X MILES
G20-100-6036

END CONSTRUCTION
G20-200-6024

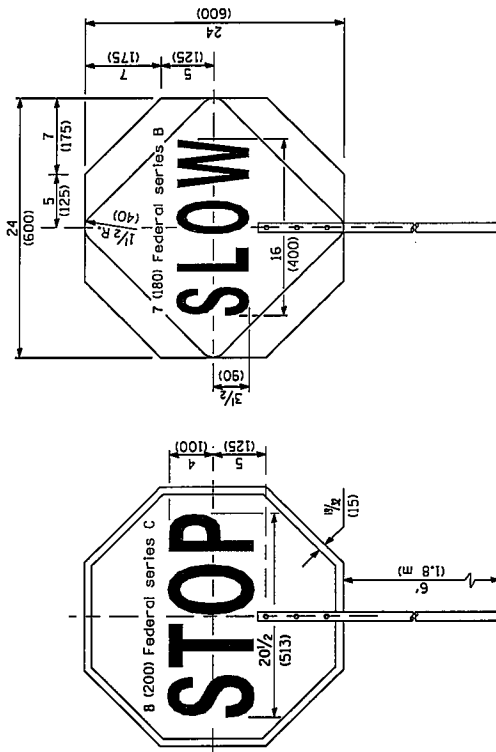
This signing is required for all projects 2 miles (3200 m) or more in length.

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



FRONT SIDE

REVERSE SIDE

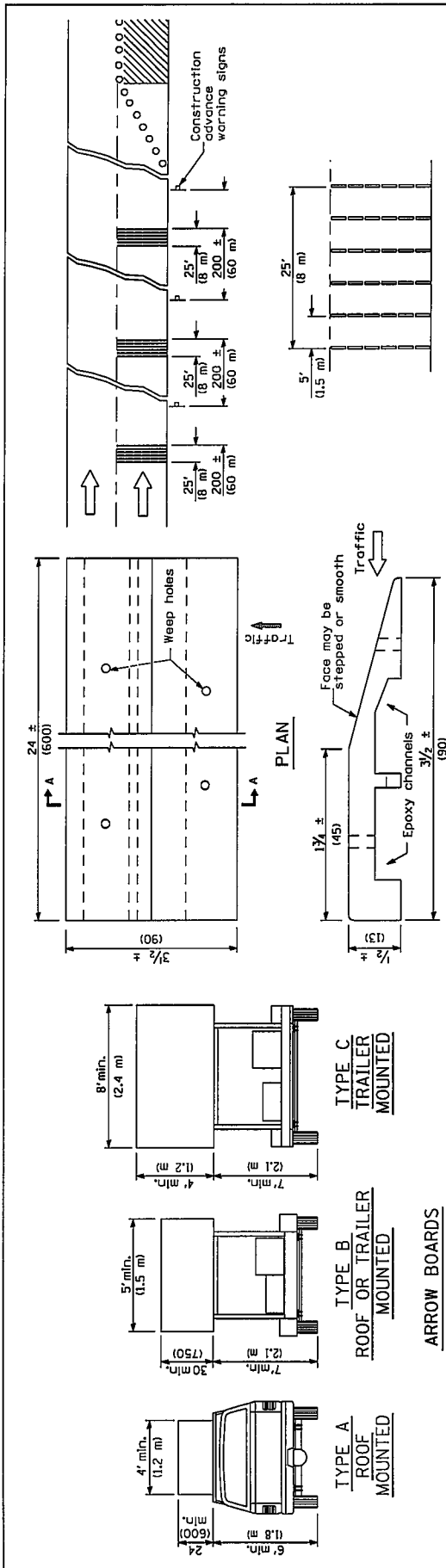
FLAGGER TRAFFIC CONTROL SIGN

All dimensions are in inches (millimeters) unless otherwise shown.

Michigan Department of Transportation		ISSUED 1-1-97
APPROVED	JANUARY 1, 2009	
ENGINEER OF OPERATIONS	<i>[Signature]</i>	
APPROVED	JANUARY 1, 2009	
ENGINEER OF DESIGN AND ENVIRONMENT	<i>[Signature]</i>	

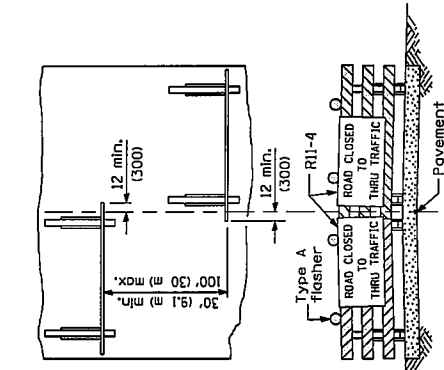
TRAFFIC CONTROL DEVICES
(Sheet 2 of 3)

STANDARD 701901-01



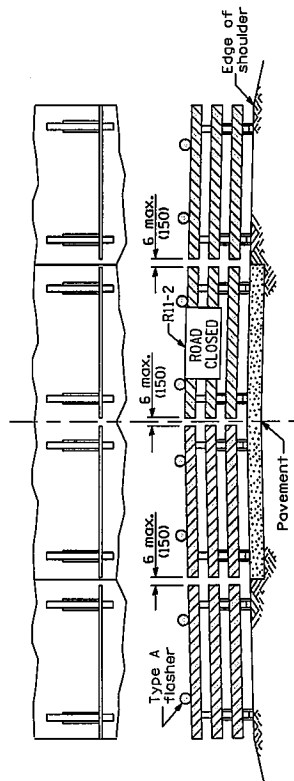
SECTION A-A

TEMPORARY RUMBLE STRIPS



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 used, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.



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.

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD

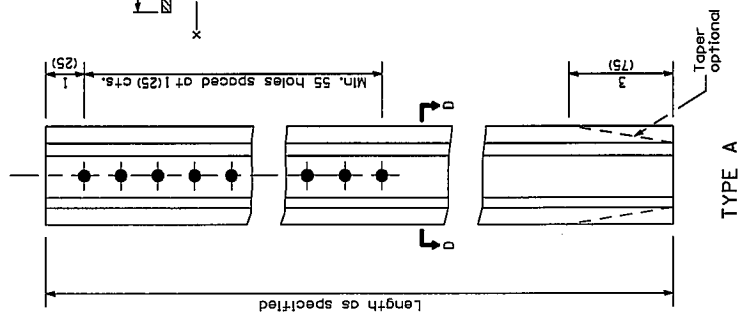
Illinois Department of Transportation	ISSUED	1-1-97
APPROVED	JANUARY 1, 2009	
ENGINEER OF OPERATIONS		
APPROVED	JANUARY 1, 2009	
ENGINEER OF DESIGN AND ENVIRONMENT		

TRAFFIC CONTROL DEVICES

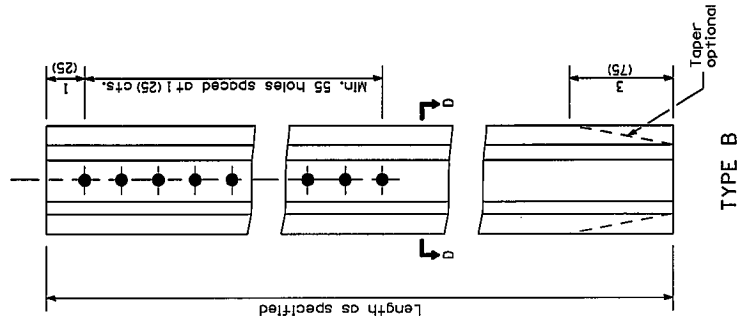
All dimensions are in inches (millimeters) unless otherwise shown.

(Sheet 3 of 3)

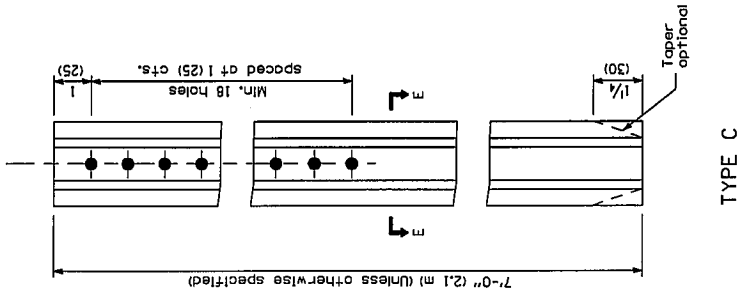
STANDARD 701901-01



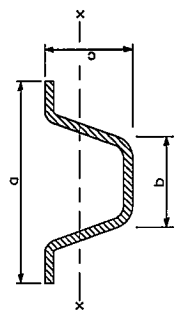
TYPE A



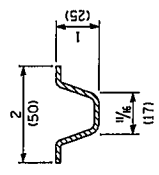
TYPE B



TYPE C



SECTION D-D



SECTION E-E

Steel - 112 lbs./ft.
(1.67 kg/m)

	a	b	c	Sx-x In. 3 (mm ³)	lbs./ft. (kg/m)
TYPE A	Steel 3/8 (78)	1/4 (32)	1/16 (37)	0.223 (3.654)	2.00 (2.98)
	Aluminum 3/2 (69)	1/8 (41)	1/8 (48)	0.435 (7.128)	0.90 (1.34)
TYPE B	Steel 3/8 (81)	1/4 (32)	1/2 (38)	0.341 (5.588)	3.00 (4.46)
	Aluminum 4/8 (118)	2/4 (57)	2 3/8 (60)	0.888 (14.552)	1.30 (1.93)

GENERAL NOTES

Dimensions shown for cross sections are minimum.
All holes are 3/16 (10).
Sx-x is the minimum section modulus about the x-x axis of the post as shown. For posts in which holes are punched or drilled for more than half their length, Sx-x shall be computed for the net section.
All dimensions are in inches (millimeters) unless otherwise shown.

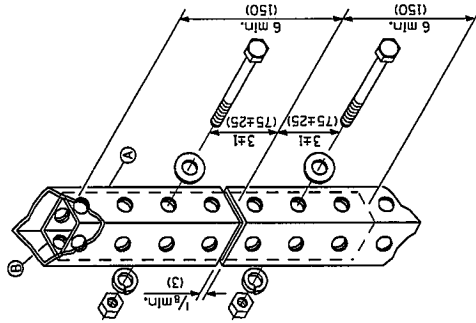
Illinois Department of Transportation
 PASSED _____ 2009
 ENGINEER OF PUBLIC WORKS
 APPROVED _____ 2009
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

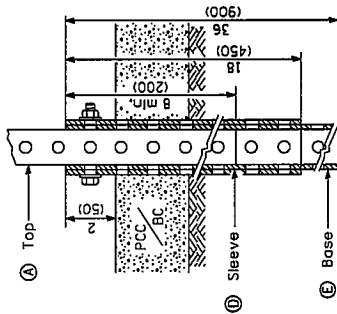
METAL POSTS FOR
SIGNS, MARKERS &
DELINEATORS

STANDARD 720011-01

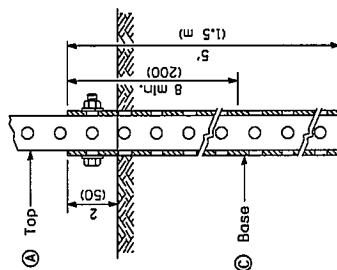
DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-97	Revised Standard 2350-4.



SPLICE DETAIL



PAVEMENT MOUNT DETAIL



GROUND MOUNT DETAIL

(A)	2 x 2 x var.	(51 x 51 var.)
(B)	1 3/4 x 1 3/4 x 12	(44 x 44 x 300)
(C)	2 1/4 x 2 1/4 x 60	(57 x 57 x 1500)
(D)	2 1/2 x 2 1/2 x 18	(64 x 64 x 450)
(E)	2 1/4 x 2 1/4 x 36	(57 x 57 x 900)

GENERAL NOTES

All bolts 3/8 (M10) hex head zinc or cadmium plated.

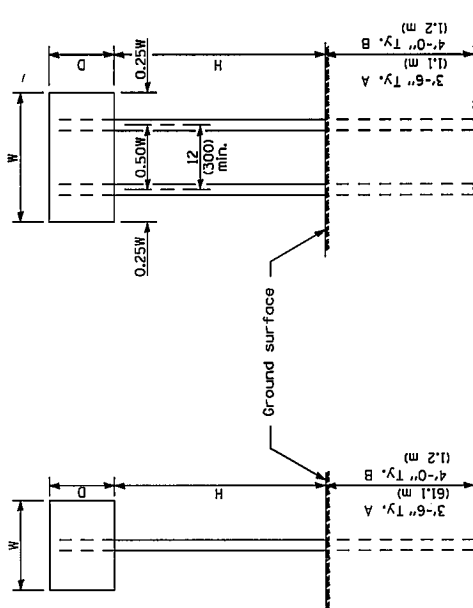
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
 APPROVED: [Signature] SUBJECT: I. 2009
 ENGINEER OF OPERATIONS
 APPROVED: [Signature] SUBJECT: I. 2009
 ENGINEER OF DESIGN AND ENVIRONMENT

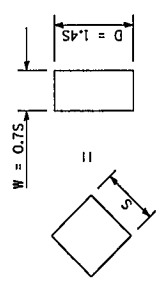
DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	New Standard. Used to be part of Standard 720006.

TELESCOPING STEEL SIGN SUPPORT

STANDARD 728001-01



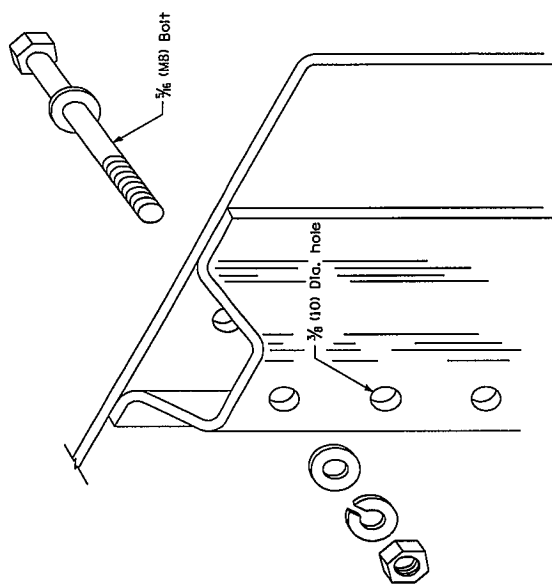
ONE POST INSTALLATION



TWO POST INSTALLATION

For diamond shaped sign with side S as shown, use required post size for a sign with $W = 0.75$ and $D = 1.45S$.

SIGN DEPTH (D)	H	NO. AND TYPE OF POST FOR SIGN WIDTH (W)				
		12 (300)	18 (450)	24 (600)	30 (750)	36 (900)
18 (450)	5'-0" (1.5 m)	A	A	A	A	A
	5'-6" (1.7 m)	A	A	A	A	A
	6'-0" (1.8 m)	A	A	A	A	A
	6'-6" (2.0 m)	A	A	A	A	A
	7'-0" (2.1 m)	A	A	A	A	A
	7'-6" (2.3 m)	A	A	A	A	A
24 (600)	8'-0" (2.4 m)	A	A	A	A	A
	8'-6" (2.6 m)	A	A	A	A	A
	9'-0" (2.7 m)	A	A	A	A	A
	5'-0" (1.5 m)	A	A	A	A	A
	5'-6" (1.7 m)	A	A	A	A	A
	6'-0" (1.8 m)	A	A	A	A	A
30 (750)	6'-6" (2.0 m)	A	A	A	A	A
	7'-0" (2.1 m)	A	A	A	A	A
	7'-6" (2.3 m)	A	A	A	A	A
	8'-0" (2.4 m)	A	A	A	A	A
	8'-6" (2.6 m)	A	A	A	A	A
	9'-0" (2.7 m)	A	A	A	A	A
36 (900)	5'-0" (1.5 m)	A	A	A	A	A
	5'-6" (1.7 m)	A	A	A	A	A
	6'-0" (1.8 m)	A	A	A	A	A
	6'-6" (2.0 m)	A	A	A	A	A
	7'-0" (2.1 m)	A	A	A	A	A
	7'-6" (2.3 m)	A	A	A	A	A
4'-0" (1.2 m)	8'-0" (2.4 m)	A	A	A	A	A
	8'-6" (2.6 m)	A	A	A	A	A
	9'-0" (2.7 m)	A	A	A	A	A
	5'-0" (1.5 m)	A	A	A	A	A
	5'-6" (1.7 m)	A	A	A	A	A
	6'-0" (1.8 m)	A	A	A	A	A
4'-0" (1.2 m)	6'-6" (2.0 m)	A	A	A	A	A
	7'-0" (2.1 m)	A	A	A	A	A
	7'-6" (2.3 m)	A	A	A	A	A
	8'-0" (2.4 m)	A	A	A	A	A
	8'-6" (2.6 m)	A	A	A	A	A
	9'-0" (2.7 m)	A	A	A	A	A



DETAIL OF MOUNTING SIGN TO POST

NOTE: Minimum of 2 bolts per post required.

GENERAL NOTES

DESIGN: Current ASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.

LOADING: for 60 mph (95 km/h) wind velocity with 30% gust factor, normal to sign.

SOIL PRESSURE: Minimum allowable soil pressure 1.25 tsf (120 kPa).

See Standard 720011 for details of Types A and B posts.

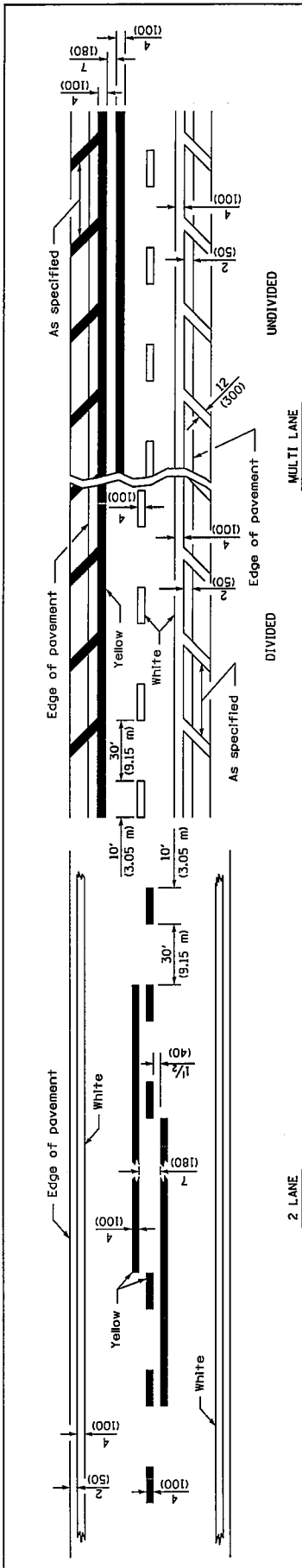
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-97	Revised Standard 2363-2.

APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

STANDARD 729001-01

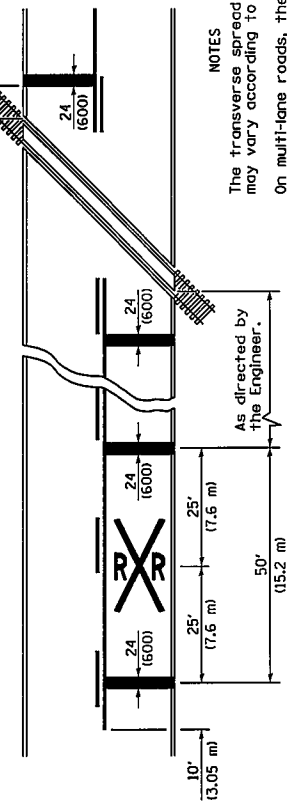
Illinois Department of Transportation
 ISSUED 1-1-97
 PROJECT NO. 2009
 ENGINEER OF TRAFFIC AND PROCEEDURES
 APPROVED: [Signature] 2009
 ENGINEER OF DESIGN AND ENVIRONMENT



LANE AND EDGE LINES

2 LANE

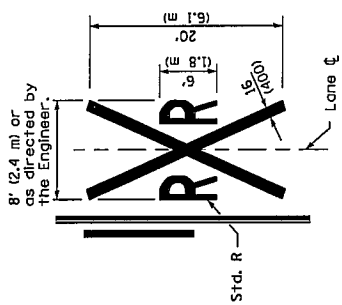
Approximately 15' (4.5 m) or 8' (2.4 m) back from and parallel to gates, if present.



NOTES

The transverse spread of the "x" 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 II-1, condition B of the MUTCD.



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

All dimensions are in inches (millimeters) unless otherwise shown.

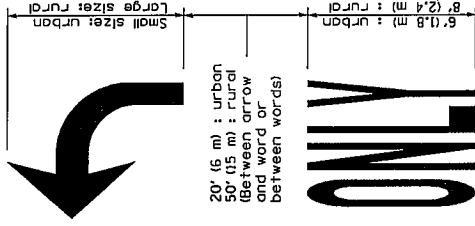
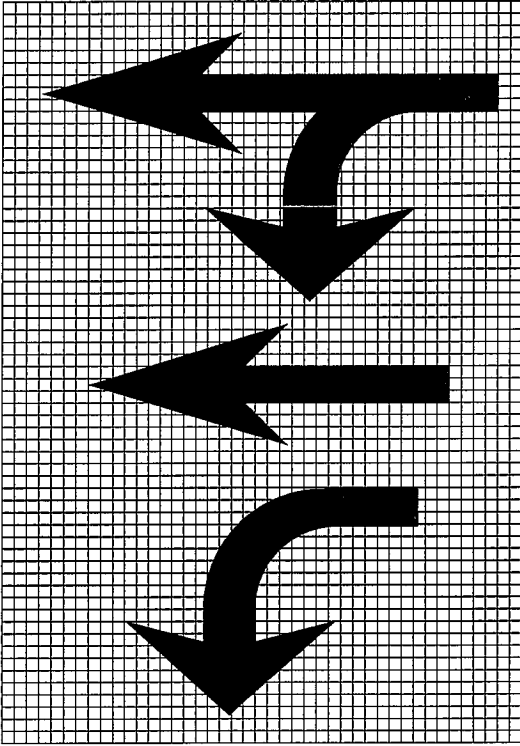
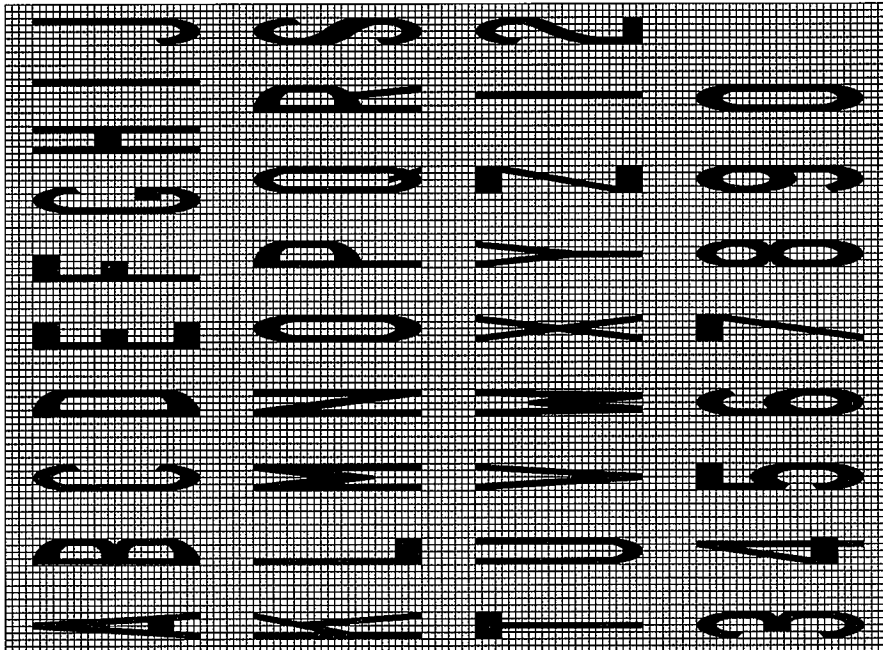
Illinois Department of Transportation APPROVED: <i>[Signature]</i> JANUARY 1, 2009 ENGINEER OF OPERATIONS APPROVED: <i>[Signature]</i> JANUARY 1, 2009 ENGINEER OF DESIGN AND ENVIRONMENT		ISSUED 1-1-97
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DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-99	Rev. dimen. & added 3rd note to pav't markings B RR-Hwy grade crossg.

TYPICAL PAVEMENT MARKINGS

(Sheet 1 of 2)

STANDARD 780001-02

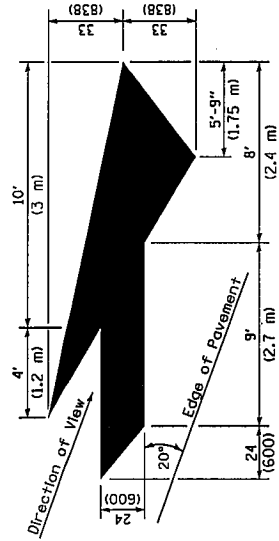


WORD AND ARROW LAYOUT

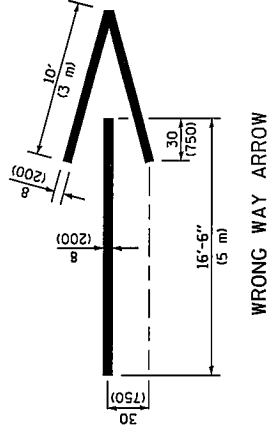
Legend	Arrow Size	a
6' (1.8 m)	Small	2.9 (74)
8' (2.4 m)	Large	3.8 (96)

The space between adjacent letters or numbers should be approximately 3/8" (9.5 mm) for 6' (1.8 m) legend and 4/100" for 8' (2.4 m) legend.

LETTER AND ARROW GRID SCALE



LANE DROP ARROW
Right lane drop arrow shown.
Use mirror image for left lane.



TYPICAL PAVEMENT MARKINGS

(Sheet 2 of 2)

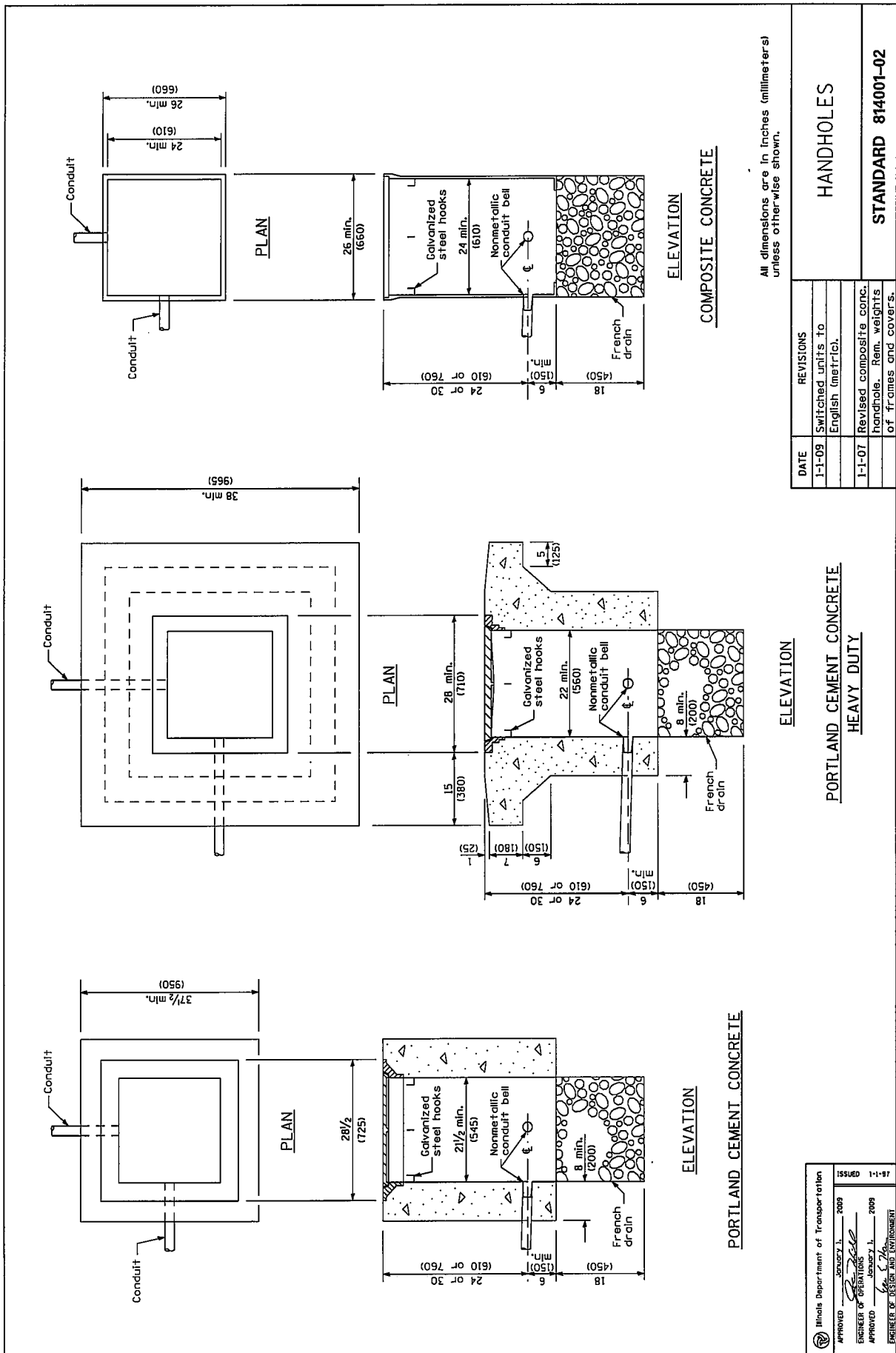
STANDARD 780001-02

Illinois Department of Transportation

APPROVED: [Signature] 2009
ENGINEER OF TRAFFIC CONTROL

APPROVED: [Signature] 2009
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED: 1-1-97



All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	Revised composite conc. handhole. Rem. weights for frames and covers.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	Revised composite conc. handhole. Rem. weights for frames and covers.

Illinois Department of Transportation APPROVED: <i>[Signature]</i> January 11, 2009 ENGINEER OF DESIGN AND CONSTRUCTION APPROVED: <i>[Signature]</i> January 11, 2009 ENGINEER OF DESIGN AND ENVIRONMENT	ISSUED 1-1-97
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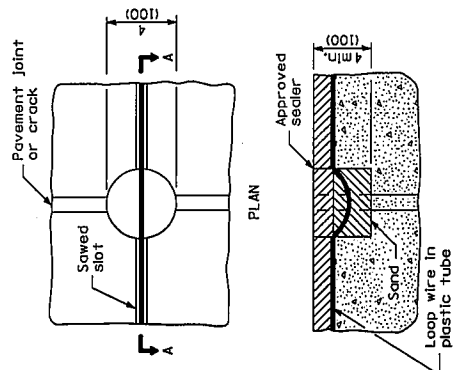
COMPOSITE CONCRETE

PORTLAND CEMENT CONCRETE
HEAVY DUTY

PORTLAND CEMENT CONCRETE

HANDHOLES

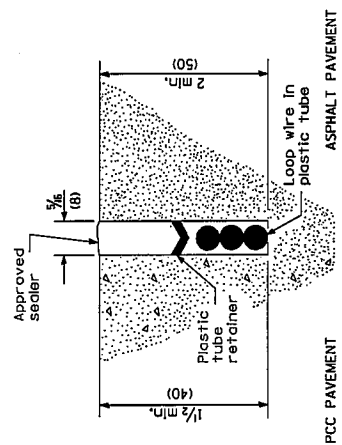
STANDARD 814001-02



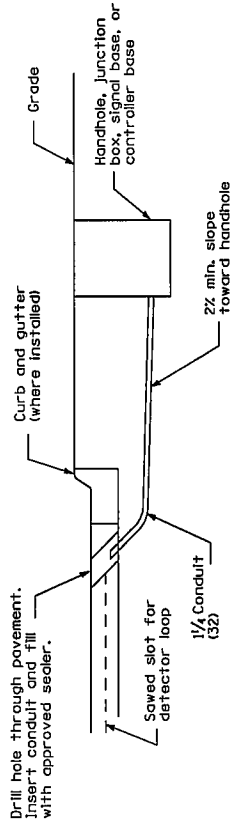
SECTION A-A

NOTE
Loop wire shall follow saw cut to bottom, forming slack section at joint.

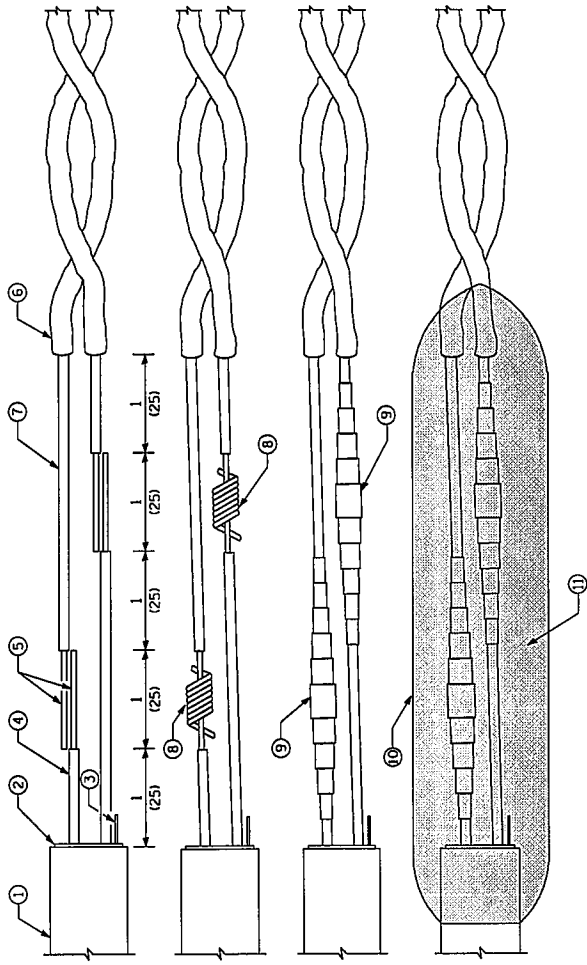
DETECTOR LOOP AT PAVEMENT JOINT OR PAVEMENT CRACK



DETECTOR LOOP INSTALLATION



DETECTOR LOOP LEAD-IN



- ① = Lead-in cable (single pair or multipair)
- ② = Lead-in cable shield
- ③ = Lead-in cable shield drain-wire
- ④ = Lead-in cable insulated conductor
- ⑤ = Bare conductor
- ⑥ = Loop wire in tube
- ⑦ = Loop wire insulated conductor
- ⑧ = Twisted and resin soldered conductor
- ⑨ = Electrical tape insulated splice
- ⑩ = Rigid mold
- ⑪ = Waterproof and dielectric resin

All dimensions are in inches (millimeters) unless otherwise shown.

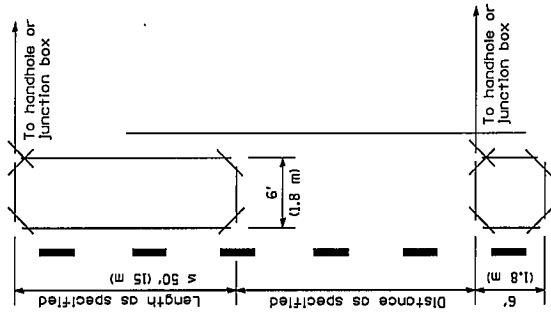
Illinois Department of Transportation
 APPROVED January 1, 2009
 ENGINEER OF INSTALLATIONS
 APPROVED January 1, 2009
 ENGINEER OF DESIGN AND ENVIRONMENT

LOOP WIRE AND LEAD-IN CABLE SPLICE

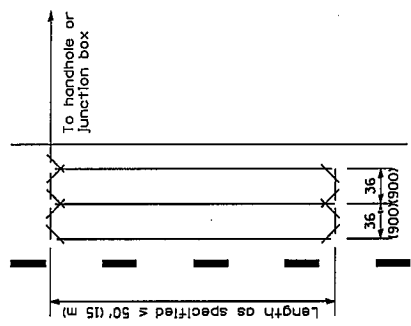
DATE	REVISIONS
1-1-09	Switched units to English (metric)
1-1-02	Renum. Standard B46001.

DETECTOR LOOP INSTALLATIONS

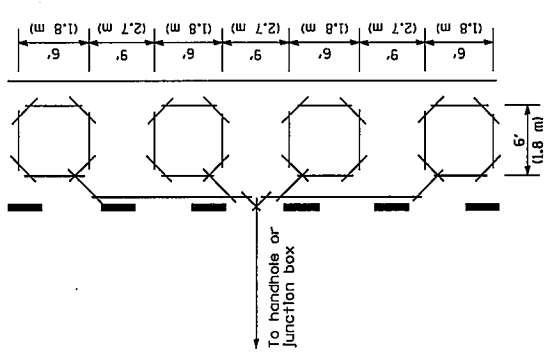
STANDARD 886001-01



FOR EXTENDED-CALL DETECTION

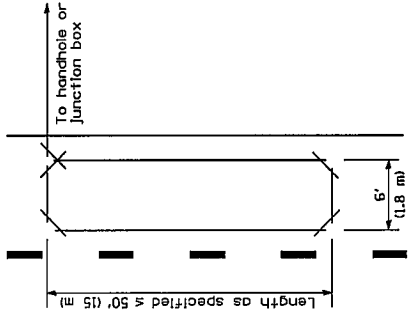


FOR PRESENCE DETECTION QUADRUPOLE LOOP

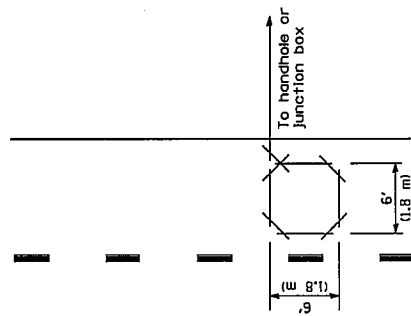


FOR PRESENCE DETECTION MULTIPLE LOOP IN SERIES

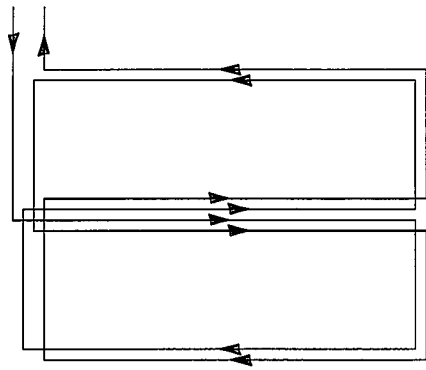
SLOT PLAN



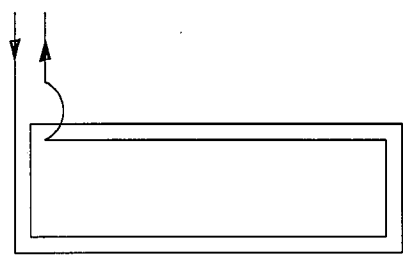
FOR PRESENCE DETECTION LONG LOOP



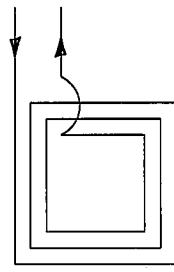
FOR POINT DETECTION SHORT LOOP



QUADRUPOLE LOOP



LONG LOOP



SHORT LOOP

All dimensions are in inches (millimeters) unless otherwise shown.

TYPICAL LAYOUTS FOR DETECTION LOOPS

STANDARD 886006-01

DATE	REVISIONS
1-1-09	Switched units to English (metric)
1-1-02	Renum. Standard 846006.

WIRING DIAGRAM

Illinois Department of Transportation APPROVED: [Signature] ENGINEER OF OPERATIONS APPROVED: [Signature] ENGINEER OF DESIGN AND ENVIRONMENT	ISSUED 1-1-02 JANUARY 1, 2009 JANUARY 1, 2009
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**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

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ATTACHMENTS

**A. Employment Preference for Appalachian Contracts
(included in Appalachian contracts only)**

I. GENERAL

1. These contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.
2. Except as otherwise provided for in each section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.
3. A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.
4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided in 29 CFR 5.12:

Section I, paragraph 2;
Section IV, paragraphs 1, 2, 3, 4 and 7;
Section V, paragraphs 1 and 2a through 2g.

5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U.S. Department of Labor (DOL) as set forth in 29 CFR 5, 6 and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the DOL, or the contractor's employees or their representatives.

6. Selection of Labor: During the performance of this contract, the contractor shall not:

- a. Discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or

- b. Employ convict labor for any purpose within the limits of the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

II. NONDISCRIMINATION

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630 and 41 CFR 60 (and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The Equal Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

- a. The contractor will work with the State highway agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.
- b. The contractor will accept as his operating policy the following statement: "It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, preapprenticeship, and/or on-the-job-training."

2. EEO Officer: The contractor will designate and make known to the SHA contracting officers an EEO Officer who will have the responsibility for an must be capable of effectively administering and promoting an active contractor program of EEO and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

- a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.
- b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.
- c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minority group employees.
- d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees,

applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minority groups in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employees referral sources likely to yield qualified minority group applicants. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish which such identified sources procedures whereby minority group applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)

c. The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with his obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of his avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. Where feasible, 25 percent of apprentices or trainees in each occupation shall be

in their first year of apprenticeship or training. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of minority group and women employees and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. Actions by the contractor either directly or through a contractor's association acting as agent will include the procedures set forth below:

a. The contractor will use best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.

b. The contractor will use best efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the SHA and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the SHA.

8. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

a. The contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.

b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 23, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees.

Contractors shall obtain lists of DBE construction firms from SHA

personnel.

c. The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.

9. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the SHA and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women;

(3) The progress and efforts being made in locating, hiring, training,

qualifying, and upgrading minority and female employees; and

(4) The progress and efforts being made in securing the services of

DBE subcontractors or subcontractors with meaningful minority and

female representation among their employees.

b. The contractors will submit an annual report to the SHA each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data.

III. NONSEGREGATED FACILITIES

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal-aid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.

b. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).

c. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of \$10,000 or more and that it will retain such certifications in its files.

IV. PAYMENT OF PREDETERMINED MINIMUM WAGE

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located

on roadways classified as local roads or rural minor collectors, which are exempt.)

1. General:

a. All mechanics and laborers employed or working upon the site of the work will be paid unconditionally and not less often than once a week and without subsequent deduction or rebate on any account [except such payroll deductions as are permitted by regulations (29 CFR 3) issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c)] the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter "the wage determination") which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor or its subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV and the DOL poster (WH-1321) or Form FHWA-1495) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C. 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of Section IV, paragraph 3b, hereof. Also, for the purpose of this Section, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in paragraphs 4 and 5 of this Section IV.

b. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein, provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed.

c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.

2. Classification:

a. The SHA contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.

b. The contracting officer shall approve an additional classification, wage rate and fringe benefits only when the following criteria have been met:

(1) the work to be performed by the additional classification requested is not performed by a classification in the wage determination;

(2) the additional classification is utilized in the area by the construction industry;

(3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and

(4) with respect to helpers, when such a classification prevails in the area in which the work is performed.

c. If the contractor or subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional classification or their representatives, and the

contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the DOL, Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, D.C. 20210. The Wage and Hour Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

d. In the event the contractor or subcontractors, as appropriate, the laborers or mechanics to be employed in the additional classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the question, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. Said Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advised the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.

3. Payment of Fringe Benefits:

a. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor or subcontractors, as appropriate, shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.

b. If the contractor or subcontractor, as appropriate, does not make payments to a trustee or other third person, he/she may consider as a part of the wages of any laborer or mechanic the amount of any cost reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

4. Apprentices and Trainees (Programs of the U.S. DOL) and Helpers:

a. Apprentices:

(1) Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the DOL, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprentice.

(2) The allowable ratio of apprentices to journeyman-level employees on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any

employee listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate listed in the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor or subcontractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman-level hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

(3) Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid

the full amount of fringe benefits listed on the wage determination

for the applicable classification. If the Administrator for the Wage

and Hour Division determines that a different practice prevails for

the applicable apprentice classification, fringes shall be paid in accordance with that determination.

(4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor or subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.

b. Trainees:

(1) Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the DOL, Employment and Training Administration.

(2) The ratio of trainees to journeyman-level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(3) Every trainee must be paid at not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman-level wage rate on the wage determination which provides for less than full fringe benefits for apprentices, in which cases such trainees shall receive the same fringe benefits as apprentices.

(4) In the event the Employment and Training Administration

withdraws approval of a training program, the contractor or subcontractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Helpers:

Helpers will be permitted to work on a project if the helper classification is specified and defined on the applicable wage determination or is approved pursuant to the conformance procedure set forth in Section IV. 2. Any worker listed on a payroll at a helper wage rate, who is not a helper under a approved definition, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed.

5. Apprentices and Trainees (Programs of the U.S. DOT):

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

6. Withholding:

The SHA shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the contractor or subcontractor under this contract or any other Federal contract with the same prime contractor or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements which is held by the same prime contractor, as much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainee's and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the SHA contracting officer may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

7. Overtime Requirements:

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraphs 4 and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than one-and-one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

8. Violation:

Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the contractor and any subcontractor responsible thereof shall be liable to the affected employee for his/her unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory) for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of \$10 for each calendar day on which such employee was required or

permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.

9. Withholding for Unpaid Wages and Liquidated Damages:

The SHA shall; upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any monies payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 8 above.

V. STATEMENTS AND PAYROLLS

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

1. Compliance with Copeland Regulations (29 CFR 3):

The contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference.

2. Payrolls and Payroll Records:

- a. Payrolls and basic records relating thereto shall be maintained by the contractor and each subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.
- b. The payroll records shall contain the name, social security number, and address of each such employee; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof the types described in Section 1(b)(2)(B) of the Davis Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph 3b, has found that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis Bacon Act, the contractor and each subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.
- c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the SHA resident engineer a payroll of wages paid each of its employees (including apprentices trainees, and helpers, described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period). The payroll submitted shall set out accurately and completely

all of the information required to be maintained under paragraph 2b of this Section V. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for submitting payroll copies of all subcontractors.

d. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his/her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

- (1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete;
- (2) that such laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in the Regulations, 29 CFR 3;
- (3) that each laborer or mechanic has been paid not less than the applicable wage rate and fringe benefits or cash equivalent for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

e. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 2d of this Section V.

f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U.S. C. 1001 and 31 U.S.C. 231.

g. The contractor or subcontractor shall make the records required under paragraph 2b of this Section V available for inspection, copying, or transcription by authorized representatives of the SHA, the FHWA, or the DOL, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the SHA, the FHWA, the DOL, or all may, after written notice to the contractor, sponsor, applicant, or owner, take such actions as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

1. On all federal-aid contracts on the national highway system, except those which provide solely for the installation of protective devices at railroad grade crossings, those which are constructed on a force account or direct labor basis, highway beautification contracts, and contracts for which the total final construction cost for roadway and bridge is less than \$1,000,000 (23 CFR 635) the contractor shall:

- a. Become familiar with the list of specific materials and supplies contained in Form FHWA-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds," prior to the commencement of work under this contract.
- b. Maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form FHWA-47, and in the units shown on Form FHWA-47.
- c. Furnish, upon the completion of the contract, to the SHA resident engineer on Form FHWA-47 together with the data

required in paragraph 1b relative to materials and supplies, a final labor summary of all contract work indicating the total hours worked and the total amount earned.

2. At the prime contractor's option, either a single report covering all contract work or separate reports for the contractor and for each subcontract shall be submitted.

VII. SUBLETTING OR ASSIGNING THE CONTRACT

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the State. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractors' own organization (23 CFR 635).

a. "Its own organization" shall be construed to include only workers employed and paid directly by the prime contractor and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor, assignee, or agent of the prime contractor.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph 1 of Section VII is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the SHA contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the SHA contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the SHA has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

VIII. SAFETY: ACCIDENT PREVENTION

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the SHA contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in

surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, the following notice shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS

18 U.S.C. 1020 reads as follows:

“Whoever, being an officer, agent or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined not more than \$10,000 or imprisoned not more than 5 years or both.”

X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$100,000 or more).

By submission of this bid or the execution of this contract, or

subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 *et seq.*, as amended by Pub.L. 91-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 *et seq.*, as amended by Pub.L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.

2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.

3. That the firm shall promptly notify the SHA of the receipt of any communication from the Director, Office of Federal Activities, EPA indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.

4. That the firm agrees to include or cause to be included the requirements of paragraph 1 through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

XI. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

1. Instructions for Certification - Primary Covered Transactions:

(Applicable to all Federal-aid contracts - 49 CFR 29)

- a. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.
- b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.
- c. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.
- d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- e. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which this proposal

is submitted for assistance in obtaining a copy of those regulations.

f. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification in all lower tier covered transactions

and in all solicitations for lower tier covered transactions.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded from Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph f of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- b. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and
- d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Covered Transactions:

(Applicable to all subcontracts, purchase orders and other lower tier transactions of \$25,000 or more - 49 CFR 29)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealing.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

2. Where the prospective primary participant is unable to certify

**Certification Regarding Debarment, Suspension, Ineligibility And
Voluntary Exclusion-Lower Tier Covered Transactions:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

**XII. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR
LOBBYING**

(Applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 - 49 CFR 20)

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**MINIMUM WAGES FOR FEDERAL AND FEDERALLY
ASSISTED CONSTRUCTION CONTRACTS**

This project is funded, in part, with Federal-aid funds and, as such, is subject to the provisions of the Davis-Bacon Act of March 3, 1931, as amended (46 Sta. 1494, as amended, 40 U.S.C. 276a) and of other Federal statutes referred to in a 29 CFR Part 1, Appendix A, as well as such additional statutes as may from time to time be enacted containing provisions for the payment of wages determined to be prevailing by the Secretary of Labor in accordance with the Davis-Bacon Act and pursuant to the provisions of 29 CFR Part 1. The prevailing rates and fringe benefits shown in the General Wage Determination Decisions issued by the U.S. Department of Labor shall, in accordance with the provisions of the foregoing statutes, constitute the minimum wages payable on Federal and federally assisted construction projects to laborers and mechanics of the specified classes engaged on contract work of the character and in the localities described therein.

General Wage Determination Decisions, modifications and supersedes decisions thereto are to be used in accordance with the provisions of 29 CFR Parts 1 and 5. Accordingly, the applicable decision, together with any modifications issued, must be made a part of every contract for performance of the described work within the geographic area indicated as required by an applicable DBRA Federal prevailing wage law and 29 CFR Part 5. The wage rates and fringe benefits contained in the General Wage Determination Decision shall be the minimum paid by contractors and subcontractors to laborers and mechanics.

NOTICE

The most current **General Wage Determination Decisions** (wage rates) are available on the IDOT web site. They are located on the Letting and Bidding page at <http://www.dot.state.il.us/desenv/delett.html>.

In addition, ten (10) days prior to the letting, the applicable Federal wage rates will be e-mailed to subscribers. It is recommended that all contractors subscribe to the Federal Wage Rates List or the Contractor's Packet through IDOT's subscription service.

PLEASE NOTE: if you have already subscribed to the Contractor's Packet you will automatically receive the Federal Wage Rates.

The instructions for subscribing are at <http://www.dot.state.il.us/desenv/subsc.html>.

If you have any questions concerning the wage rates, please contact IDOT's Chief Contract Official at 217-782-7806.