ADDENDUM NO. 1

DATE: October 15, 2015

FROM: Village of Villa Park Public Works Department

TO: All Potential Bidders

PROJECT: **East Park Boulevard Improvement Project**

The Bidding Documents for the subject project are hereby amended as follows. Please indicate your acknowledgment of this Addendum by filling out the attached Acknowledgment Form and returning it with your Bid.

CHANGE THE FOLLOWING ITEM(S) IN THE SPECIFICATIONS:

IN "NOTICE TO BIDDERS":

DELETE:

Sealed proposals for the improvement described below will be received at the office of Director of Public Works, 11 W. Home Ave., Villa Park, IL 60181 until 10:00 AM on October 20, 2015.

Sealed proposals will be opened and read publicly at the office of Public Works Director 11 W. Home Ave., Villa Park, IL 60181 at 10:00 AM on October 20, 2015.

INSERT:

Sealed proposals for the improvement described below will be received at the office of Director of Public Works, 11 W. Home Ave., Villa Park, IL 60181 until 10:00 AM on ***Thursday, October 29, 2015***.

Sealed proposals will be opened and read publicly at the office of Public Works Director 11 W. Home Ave., Villa Park, IL 60181 at 10:00 AM on ***Thursday, October 29, 2015***.

ADDENDUM NO. 1
ACKNOWLEDGMENT FORM

I/We hereby acknowledge receipt of the following documents pertaining to **ADDENDUM No. 1** to the Bidding Documents for the Village of Villa Park's **EAST PARK BOULEVARD IMPROVEMENT PROJECT**.

Addendum No. 1 1 page

Name: _____

Title: _____

Company: _____

Signature: _____

Date: _____

ADVERTISEMENT FOR BIDS
VILLAGE OF VILLA PARK
Friday, October 2, 2015

PROJECT: EAST PARK BOULEVARD IMPROVEMENT PROJECT
This project consists of improvements on East Park Boulevard from Villa Avenue to the east end, just west of Illinois State Route 83, in the Village of Villa Park. The total length of improvements is approximately 1,943 lineal feet. The scope of work includes roadway removal and reconstruction with a hot-mix asphalt (HMA) cross-section, installation of new mainline storm sewer, sanitary sewer system repairs and water system repairs, along with all necessary restoration and other related work efforts.

BID DEADLINE: TUESDAY, OCTOBER 20, 2015, 10:00 A.M. LOCAL TIME
The Village reserves the right to extend the Bid Deadline from this date and time to accept Bids submitted after the Bid Deadline, as the Village, in its sole discretion, determines is in the best interest of the Village.

NOTICE: Separate, sealed proposals for the **EAST PARK BOULEVARD IMPROVEMENT PROJECT** will be received by the Village of Villa Park, Illinois, at the reception desk of the Public Works Department, 11 West Home Avenue, Villa Park, Illinois, 60181, until the Bid Deadline. Immediately thereafter, the proposals will be publicly opened and read aloud at the offices of the Public Works Department. Notwithstanding the foregoing, the Village reserves the right to defer, postpone, delay, or reschedule the Bid Opening for such time and to such date as the Village, in its sole discretion, determines is in the best interest of the Village.

Proposals shall be submitted in accordance with the Bidding Documents prepared by Robinson Engineering, Ltd., 17000 South Park Avenue, South Holland, Illinois 60473.

BIDDER QUALIFICATIONS: Bidders, in submitting a Bid, shall comply with all applicable Federal, State and Local laws and requirements; shall provide documentation of that compliance in accordance with the requirements of the Contract Documents or as requested by the Village; and, in submitting a Bid, Bidders affirm that they are qualified under all applicable laws and requirements to do so, and agree to be bound by the determination of the Village as to Bidder's compliance and qualifications.

BID SECURITY: Bid security in the amount of not less than five percent (5%) of the Bid shall accompany each Bid in accordance with the Bidding Documents.

CONTRACT SECURITY: The Bidder to whom a Contract is awarded shall be required to furnish both a Performance Bond and a Payment Bond acceptable to the Village for one-hundred percent (100%) of the Contract Price, in accordance with the requirements of the Contract Documents.

RIGHTS RESERVED: The Village reserves the right to reject any and all Bids, to waive any informalities or technicalities in bidding, and to accept the Bid which best serves the

interests of the Village. The Village shall, in its sole discretion, determine what does or does not constitute an informality or technicality, and, in submitting a Bid, Bidder agrees to be bound by that determination.

WAGE RATES: The CONTRACTOR shall be required to pay not less than the prevailing wage rates on the project as established by the Village. Copies of these wage rates are on file in the office of the Public Works Department and incorporated in the Contract Documents.

CONTRACT DOCUMENTS: The Bidding Documents are on file for inspection at the office of the Village of Villa Park Public Works Department, 11 West Home Avenue, Villa Park, Illinois, 60181 and may also be obtained from the office listed above for a non-refundable fee of twenty dollars ($20.00). Payments shall be made in cash or by check made payable to the "Village of Villa Park".

PUBLISHED BY AUTHORITY OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS.

BY: Vydas Juskelis

Vydas Juskelis, P.E.
Director of Public Works

RETURN WITH BID

REL # 13-583

Local Public Agency Formal Contract Proposal

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

STATE OF ILLINOIS

COUNTY OF DuPage

Village of Villa Park

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

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE NO. PARK BOULEVARD

SECTION NO. N/A

TYPES OF FUNDS LOCAL

☒ SPECIFICATIONS (required) ☒ PLANS (required)

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

RETURN WITH BID

NOTICE TO BIDDERS

County DuPage
Local Public Agency Village of Villa Park
Section Number N/A
Route Park Boulevard

Sealed proposals for the improvement described below will be received at the office of Director of Public Works ,
11 W. Home Ave., Villa Park, IL 60181 (Address) until 10:00 AM (Time) on October 20, 2015 (Date)

Sealed proposals will be opened and read publicly at the office of Public Works Director
11 W. Home Ave., Villa Park, IL 60181 (Address) at 10:00 AM (Time) on October 20, 2015 (Date)

DESCRIPTION OF WORK

Name Park Boulevard reconstruction Length: 1,943 feet (0.368 miles)

Location South Villa Avenue to east end (IL RT 83)

Proposed Improvement Roadway removal and replacement with HMA section. New mainline storm sewer. Water main Repairs. Parkway restoration and related work.

1. Plans and proposal forms will be available in the office of Villa Park Public Works, 11 W. Home Ave., Villa Park. IL 60181 (Address)
   For a non-refundable fee of $20.00 Please contact Villa Park at 630-834-8505 with any questions
2. ☐ Prequalification
   If checked, the 2 low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57), in duplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One original shall be filed with the Awarding Authority and one original with the IDOT District Office.
3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals.
4. The following BLR Forms shall be returned by the bidder to the Awarding Authority:
   a. BLR 12200: Local Public Agency Formal Contract Proposal
   b. BLR 12200a Schedule of Prices
   c. BLR 12230: Proposal Bid Bond (if applicable)
   d. BLR 12325: Apprenticeship or Training Program Certification
   e. BLR 12326: Affidavit of Illinois Business Office
5. The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as hereinafter provided.
6. Submission of a bid shall be conclusive assurance and warranty the bidder has examined the plans and understands all requirements for the performance of work. The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in depth examination. The Awarding Authority will, in no case be responsible for any costs, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.
7. The bidder shall take no advantage of any error or omission in the proposal and advertised contract.
8. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Agency and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the Notice to Bidders. Proposals received after the time specified will be returned to the bidder unopened.
9. Permission will be given to a bidder to withdraw a proposal if the bidder makes the request in writing or in person before the time for opening proposals.

RETURN WITH BID

PROPOSAL

County DuPage
Local Public Agency Village of Villa Park
Section Number N/A
Route Park Boulevard

1. Proposal of _____

for the improvement of the above section by the construction of Park Boulevard reconstruction. Roadway removal and replacement with HMA section. New mainline storm sewer. Water main repairs. Parkway restoration and related work.

a total distance of 1,943 feet, of which a distance of 1,943 feet, (0.368 miles) are to be improved.

2. The plans for the proposed work are those prepared by Robinson Engineering, Ltd. and approved by the Village of Villa Park on October 2, 2015
3. The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the "Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.
4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.
5. The undersigned agrees to complete the work within NA calendar days **See special provisions** unless additional time is granted in accordance with the specifications.
6. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. Bid Bonds will be allowed as a proposal guaranty. Accompanying this proposal is either a bid bond if allowed, on Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to:

Village Treasurer of Villa Park, IL

The amount of the check is Five Percent (5%) of the Bid Amount ( ).

7. In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must be equal to the sum of the proposal guaranties, which would be required for each individual proposal. If the proposal guaranty check is placed in another proposal, it will be found in the proposal for: Section Number N/A.
8. The successful bidder at the time of execution of the contract will be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond or check shall be forfeited to the Awarding Authority.
9. Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
10. A bid will be declared unacceptable if neither a unit price nor a total price is shown.
11. The undersigned submits herewith the schedule of prices on BLR 12200a covering the work to be performed under this contract.
12. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12200a, the work shall be in accordance with the requirements of each individual proposal for the multiple bid specified in the Schedule for Multiple Bids below.

RETURN WITH BID

SCHEDULE OF PRICES

County DuPage
Local Public Agency Village of Villa Park
Section N/A
Route Park Blvd.

Schedule for Multiple Bids

Combination Letter	Sections Included in Combinations	Total

Schedule for Single Bid

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

Bidder's Proposal for making Entire Improvements	

Item No.	Items	Unit	Quantity	Unit Price	Total
1	EARTH EXCAVATION	CU YD	2,049		
2	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	430		
3	PAVEMENT REMOVAL	SQ YD	5,627		
4	COMBINATION CURB AND GUTTER REMOVAL	FOOT	3,750		
5	SIDEWALK REMOVAL	SQ FT	1,565		
6	DRIVEWAY PAVEMENT REMOVAL	SQ YD	813		
7	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	7		
8	CONNECTION TO EXISTING WATER MAIN (NON-PRESSURE), 6 INCH	EACH	3		
9	WATER VALVES, 6 INCH	EACH	8		
10	VALVE BOX	EACH	4		
11	VALVE VAULTS, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4		
12	VALVE BOXES TO BE REMOVED	EACH	3		
13	FIRE HYDRANTS TO BE REMOVED	EACH	4		
14	VALVE VAULTS TO BE ADJUSTED	EACH	1		
15	VALVE BOXES TO BE ADJUSTED	EACH	1		
16	WATER SERVICE LINE 1 INCH (SHORT)	EACH	15		
17	WATER SERVICE LINE 1 INCH (LONG)	EACH	15		
18	DOMESTIC WATER SERVICE BOXES	EACH	30		
19	EXPLORATION TRENCH (WATER)	EACH	41		
20	WATER MAIN TO BE ADJUSTED 6"	FOOT	25		
21	WATER SERVICE ADJUSTMENT	EACH	39		
22	SODDING, SPECIAL	SQ YD	4,950		
23	SEEDING, SPECIAL	SQ YD	235		
24	TOPSOIL FURNISH AND PLACE, 4 INCH	SQ YD	4,680		
25	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	40		
26	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	71		
27	TREE ROOT PRUNING	EACH	47		
28	TREE PRUNING (ALL SIZES)	EACH	47		
29	TREE TRUNK PROTECTION	EACH	47		
30	SUPPLEMENTAL WATERING	UNIT	30		

RETURN WITH BID

Bidder's Proposal for making Entire Improvements	

Item No.	Items	Unit	Quantity	Unit Price	Total
31	PERIMETER EROSION BARRIER	FOOT	4,000		
32	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	430		
33	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	999		
34	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	130		
35	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1,324		
36	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	662		
37	BITUMINOUS MATERIALS (PRIME COAT)	POUND	15,066		
38	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	5,928		
39	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 6 INCH, RESIDENTIAL	SQ YD	375		
40	INCIDENTAL HOT-MIX ASPHALT SURFACING, RESIDENTIAL	SQ YD	515		
41	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,790		
42	DETECTABLE WARNINGS	SQ FT	160		
43	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)	FOOT	4,023		
44	CONCRETE CURB, TYPE B	FOOT	180		
45	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	30		
46	TEMPORARY ACCESS (COMMERCIAL)	EACH	1		
47	TEMPORARY ACCESS (ROAD)	EACH	5		
48	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	150		
49	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	212		
50	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	98		
51	RELOCATE EXISTING CONCRETE WHEEL STOPS	EACH	12		
52	FENCE REMOVAL AND REPLACEMENT	FOOT	40		
53	PROTECTIVE COAT	SQ YD	1,297		
54	TEMPORARY FENCE	FOOT	250		
55	INLET FILTERS	EACH	24		
56	STORM SEWER REMOVAL, 8 INCH	FOOT	115		
57	STORM SEWER REMOVAL, 6 INCH	FOOT	35		
58	TRENCH BACKFILL	CU YD	1,269		
59	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	280		
60	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	378		
61	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	96		
62	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	512		
63	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	780		
64	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	47		
65	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	199		
66	STORM SEWERS, PVC, SDR 26 6"	FOOT	50		
67	DUCTILE IRON SANITARY SEWER 6"	FOOT	50		
68	STORM SEWERS JACKED IN PLACE 36"	FOOT	128		
69	PIPE UNDERDRAINS, FABRIC LINED TRENCH 6"	FOOT	120		
70	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1		
71	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	3		
72	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	EACH	10		
73	CATCH BASINS, TYPE A, 4'-DIA., TYPE 11 FRAME AND GRATE	EACH	3		
74	CATCH BASINS, TYPE A, 5'-DIA., ALTERNATE FRAME AND GRATE	EACH	2		
75	CATCH BASINS, TYPE A, 6'-DIA., TYPE 1 FRAME, OPEN LID	EACH	1		
76	CATCH BASINS, TYPE A, 6'-DIA., TYPE 11 FRAME AND GRATE	EACH	1		

Bidder's Proposal for making Entire Improvements	

Item No.	Items	Unit	Quantity	Unit Price	Total
77	MANHOLES, TYPE A, 4'-DIA., TYPE 1 FRAME, CLOSED LID	EACH	2		
78	MANHOLES, TYPE A, 5'-DIA., TYPE 1 FRAME, CLOSED LID	EACH	8		
79	MANHOLES, TYPE A, 5'-DIA., TYPE 1 FRAME, CLOSED LID (SANITARY)	EACH	5		
80	MANHOLES, TYPE A, 6'-DIA., TYPE 1 FRAME, CLOSED LID	EACH	1		
81	MANHOLES, TYPE A, 6'-DIA., TYPE 11 FRAME AND GRATE	EACH	1		
82	MANHOLES, TYPE A, 7'-DIA., TYPE 1 FRAME, CLOSED LID, SPECIAL	L SUM	1		
83	JUNCTION CHAMBER NO. 1	L SUM	1		
84	MANHOLES TO BE ADJUSTED	EACH	20		
85	MANHOLES TO BE RECONSTRUCTED	EACH	5		
86	REMOVING INLETS	EACH	12		
87	REMOVING CATCH BASINS	EACH	6		
88	REMOVING MANHOLES	EACH	1		
89	SANITARY SERVICE LINES TO BE ADJUSTED	FOOT	300		
90	CONCRETE COLLAR SPECIAL	EACH	5		
91	EXPLORATION TRENCH	EACH	5		
92	EXPLORATION EXCAVATION - JUNCTION CHAMBER	L SUM	1		
93	FRAMES AND LIDS	EACH	20		
94	CONTINGENCY ALLOWANCE	DOLLAR	50,000	$1.00	$50,000.00
95	PRECONSTRUCTION VIDEO RECORDING	L SUM	1		
96	CONSTRUCTION LAYOUT	L SUM	1		
97	TRAFFIC CONTROL AND PROTECTION	L SUM	1		

CONTRACTOR CERTIFICATIONS

County DuPage
Local Public Agency Village of Villa Park
Section Number N/A
Route Park Boulevard

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

1. **Debt Deliquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedures established by the appropriate revenue Act, its liability for the tax or the amount of tax. Making a false statement voids the contract and allows the Department to recover all amounts paid to the individual or entity under the contract in a civil action.

2. **Bid-Rigging or Bid Rotating.** The bidder or contractor or subcontractor, respectively, certifies that it is not barred from contracting with the Department by reason of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

   A violation of Section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

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

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

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

County DuPage
Local Public Agency Village of Villa Park
Section Number N/A
Route Park Boulevard

SIGNATURES

(If an individual)

Signature of Bidder _____

Business Address _____

(If a partnership)

Firm Name _____

Signed By _____

Business Address _____

Inset Names and Addressed of All Partners _____

(If a corporation)

Corporate Name _____

Signed By _____
President

Business Address _____

Insert Names of Officers
President _____
Secretary _____
Treasurer _____

Attest: _____
Secretary

REL 13-583

Local Agency Proposal Bid Bond

Route Park Boulevard
County DuPage
Local Agency Village of Villa Park
Section N/A

RETURN WITH BID

PAPER BID BOND

WE _____ as PRINCIPAL,

and _____ as SURETY,

are held jointly, severally and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of 5% of the total bid price, or for the amount specified in the proposal documents in effect on the date of invitation for bids whichever is the lesser sum. We bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly pay to the LA this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said PRINCIPAL is submitting a written proposal to the LA acting through its awarding authority for the construction of the work designated as the above section.

THEREFORE if the proposal is accepted and a contract awarded to the PRINCIPAL by the LA for the above designated section and the PRINCIPAL shall within fifteen (15) days after award enter into a formal contract, furnish surety guaranteeing the faithful performance of the work, and furnish evidence of the required insurance coverage, all as provided in the "Standard Specifications for Road and Bridge Construction" and applicable Supplemental Specifications, then this obligation shall become void; otherwise it shall remain in full force and effect.

IN THE EVENT the LA determines the PRINCIPAL has failed to enter into a formal contract in compliance with any requirements set forth in the preceding paragraph, then the LA acting through its awarding authority shall immediately be entitled to recover the full penal sum set out above, together with all court costs, all attorney fees, and any other expense of recovery.

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

Principal

_____ (Company Name) _____ (Company Name)

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

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

Surety

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

STATE OF ILLINOIS,
COUNTY OF _____
I. _____, a Notary Public in and for said county,
do hereby certify that _____
(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

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

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

My commission expires _____ _____ (Notary Public)

ELECTRONIC BID BOND

☐ **Electronic bid bond is allowed (box must be checked by LA if electronic bid bond is allowed)**

The Principal may submit an electronic bid bond, in lieu of completing the above section of the Proposal Bid Bond Form. By providing an electronic bid bond ID code and signing below, the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the LA under the conditions of the bid bond as shown above. (If PRINCIPAL is a joint venture of two or more contractors, an electronic bid bond ID code, company/Bidder name title and date must be affixed for each contractor in the venture.)

Electronic Bid Bond ID Code

_____ (Company/Bidder Name)

_____ (Signature and Title) _____ Date

REL 13-583

Apprenticeship or Training Program Certification

Return with Bid

Route	Park Boulvard
County	DuPage
Local Agency	Village of Villa Park
Section	N/A

All contractors are required to complete the following certification:

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

☐ For the following deliver and install groups in this material proposal:

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

I. Except as provided in paragraph IV below, the undersigned bidder certifies that it is a participant, either as an individual or as part of a group program, in an approved apprenticeship or training program applicable to each type of work or craft that the bidder will perform with its own employees.

II. The undersigned bidder further certifies for work to be performed by subcontract that each of its subcontractors submitted for approval either (A) is, at the time of such bid, participating in an approved, applicable apprenticeship or training program; or (B) will, prior to commencement of performance of work pursuant to this contract, establish participation in an approved apprenticeship or training program applicable to the work of the subcontract.

III. The undersigned bidder, by inclusion in the list in the space below, certifies the official name of each program sponsor holding the Certificate of Registration for all of the types of work or crafts in which the bidder is a participant and that will be performed with the bidder's employees. Types of work or craft that will be subcontracted shall be included and listed as subcontract work. The list shall also indicate any type of work or craft job category for which there is no applicable apprenticeship or training program available.

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

_____

_____

_____

_____

_____

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

Bidder: _____ By: _____
(Signature)

Address: _____ Title: _____

RETURN WITH BID

Affidavit of Illinois Business Office

County DuPage
Local Public Agency Village of Villa Park
Section Number N/A
Route Park Boulevard

State of _____)
) ss.
County of _____)

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

being first duly sworn upon oath, states as follows:

1. That I am the _____ of _____.
officer or position bidder
2. That I have personal knowledge of the facts herein stated.
3. That, if selected under this proposal, _____, will maintain a
(bidder)
business office in the State of Illinois which will be located in _____ County, Illinois.
4. That this business office will serve as the primary place of employment for any persons employed in the construction contemplated by this proposal.
5. That this Affidavit is given as a requirement of state law as provided in Section 30-22(8) of the Illinois Procurement Code.

_____
(Signature)

_____
(Print Name of Affiant)

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

(SEAL)

_____
(Signature of Notary Public)

Illinois Department of Transportation

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

Affidavit of Availability
For the Letting of _____

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

Part I. Work Under Contract

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

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

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

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

						Accumulated Totals
Earthwork						
Portland Cement Concrete Paving						
HMA Plant Mix						
HMA Paving						
Clean & Seal Cracks/Joints						
Aggregate Bases & Surfaces						
Highway, R.R. and Waterway Structures						
Drainage						
Electrical						
Cover and Seal Coats						
Concrete Construction						
Landscaping						
Fencing						
Guardrail						
Painting						
Signing						
Cold Milling, Planning & Rotomilling						
Demolition						
Pavement Markings (Paint)						
Other Construction (List)						
						$ 0.00
Totals						

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

Part III. Work Subcontracted to Others.

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

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

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

Subscribed and sworn to before me

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

Officer or Director Title

_____ Signed _____

Notary Public

My commission expires _____

Company _____

(Notary Seal)

Address _____

_____

CHECK SHEET
FOR
RECURRING SPECIAL PROVISIONS

Adopted January 1, 2015

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

RECURRING SPECIAL PROVISIONS

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CHECK SHEET
FOR
LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

Adopted January 1, 2015

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

LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

SPECIAL PROVISIONS

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SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for the Road and Bridge Construction", adopted January 1, 2012, (hereinafter referred to as the Standard Specifications); the latest edition of the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways"; the Manual of Test Procedures for Materials" in effect on the date of the invitation for bids; the Division 1 General Requirements and Covenants; the Division II Technical Specifications of the contract; and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included herein apply to and govern the construction of this project and in case of conflict with any part or parts of said specifications, the said special provisions shall take precedence and shall govern.

LOCATION OF PROJECT

The project in located on Park Boulevard, from South Villa Avenue to its east terminus just west of IL Route 83.

DESCRIPTION OF PROJECT

Park Boulevard will be removed and reconstructed with an HMA pavement. Existing curb and gutters will be removed and replaced, the profile adjusted, a separate storm sewer system installed, water main valve and hydrant upgrades, ADA improvements at all intersections, and the parkways will be landscaped.

DEFINITIONS

Contractor. The individual, firm, partnership, joint venture, or corporation contracting with the Village of Villa Park for performance of prescribed work.

Department, Owner or Village. The Village of Villa Park, DuPage County, Illinois.

Engineer. The Resident Engineer who is the authorized representative of the Village of Villa Park in immediate charge of the engineering details of a construction project.

QUALIFICATION OF BIDDERS

Bidders will comply with all applicable Federal, State and local laws and requirements, and will further meet the qualifications prescribed in this and other applicable portions of these provisions.

Bidder, in submitting a Bid, certifies that Bidder is in compliance with all applicable Federal, State and local laws and requirements, and that Bidder further meets the qualifications prescribed in this and other applicable portions of these provisions. Engineer's determination as

to the compliance and qualifications of the Bidder will be final, and Bidder, in submitting a Bid, agrees to be bound by that determination.

Bidder, in submitting a Bid, certifies that Bidder is in compliance with the following requirements and qualifications. Bidder further certifies that Bidder is able to provide written evidence of Bidder's compliance with the following requirements and qualifications. Bidder shall, upon request by Engineer, submit such written evidence within five (5) calendar days of the Engineer's request, as well as any other written evidence which Engineer may deem necessary for the purpose of evaluating Bidder's qualifications.

(a) Bidder shall be qualified to do business in the State of Illinois.

(b) Bidder shall possess either a valid Federal Employer Tax Identification Number (FEIN) or a valid Social Security Number (SSN).

(c) Bidder shall be able to provide a street address and description of the Bidder's place of business, and the mailing address of the business, if different from the street address.

(d) Bidder shall be able to provide the number of years Bidder has been engaged in the contracting business under the present firm name, and the name of the state where incorporated.

(e) Bidder shall be able to provide a list of the property and equipment available to the Bidder.

(f) Bidder shall be able to provide a financial statement demonstrating that the Bidder has the financial resources to meet all obligations related to the Work.

(g) Bidder shall maintain insurance policies with the coverages required by the Contract, and with the minimum limits of coverage required by the Contract. Bidder shall be able to provide current certificate(s) of insurance for the insurance policies held by Bidder, demonstrating that Bidder holds insurance policies with the coverages required by the contract, and with the minimum limits of coverage required by the Contract.

(h) Bidder shall have constructed a minimum of three (3) projects of a similar nature in the immediate past five (5) years. Bidder shall be able to provide a list of all projects of a similar nature constructed by Bidder in the immediate past five (5) years, which list shall contain the minimum of three (3) such projects, which list shall provide a description and the location(s) of all such projects, and shall contain the Bidder's performance record and references, as well as the names and current contact information, including addresses and telephone numbers, of persons who acted as owners' representatives for those projects and who have knowledge of those projects, and whom Bidder agrees the Village may contact for the purpose of verifying Bidder's performance and references.

(i) Bidder shall be able to provide a list of three (3) references (name, address and telephone number) with knowledge of the integrity and business practices of the bidder. Such references may not be persons who have been employed by Bidder as employees.

(j) Bidder shall be able to provide a list of projects presently under Contract, the awarded Contract amount of each, the approximate adjusted Contract amount of each (if applicable), and the dollar amount or percent of completion of each.

(k) Bidder shall be able to provide a list of Contracts which have resulted in lawsuits, whether against Bidder as a prime contractor, against Bidder as a subcontractor, or against Bidder as a party in any other capacity; or against subcontractors or suppliers performing work for Bidder or under Contract held by Bidder.

(l) Bidder shall be able to provide a list of Contracts defaulted.

(m) Bidder shall be able to provide a statement indicating whether or not Bidder has ever filed bankruptcy.

(n) Bidder shall be able to provide a list of all officers of the firm, which list shall also indicate those officers who, while in the employ of the firm or in the employ of previous firms, were associated with Contracts which resulted in lawsuits, Contracts defaulted, or firms which filed for bankruptcy.

(o) Bidder shall maintain personnel guaranteed to be employed in the responsible charge of the Work, which personnel possess sufficient technical experience to ensure the satisfactory completion of the Work. Bidder shall be able to provide the names and technical experience of such personnel, as well as statements as to whether the personnel have or have not performed satisfactorily on other contracts of like nature and magnitude or comparable difficulty at similar rate of progress.

(p) Bidder shall be able to provide a list of subcontractors and suppliers anticipated to be employed by Bidder for the purpose of completing the Work, including the firm name, street address and description of place of business; mailing address of business (if different); phone, fax and e-mail contact information of business; name of primary contact; and a list of any projects or contracts for which Bidder currently owes monies to said firm, which list shall include a description of the project or contract, the amount currently due to said firm, the period of time for which those monies have been owed, and the expected date of payment of those monies.

(q) Bidder shall participate in active apprenticeship and training programs approved by and registered with the United States Department of Labor Bureau of Apprenticeship and Training for each of the trades of work contemplated under the Contract. Bidder shall be able to provide evidence of Bidder's participation in such apprenticeship and training programs.

(r) Bidder shall only employ subcontractors who meet the requirements prescribed in this section and other sections of these specifications.

(s) Bidder shall be able to provide such other information as may assist the Village in determining whether the Bidder is adequately prepared to fulfill the Contract.

These requirements and qualifications are not intended to discourage bidding, to make it difficult for qualified Bidders to submit Bids, or to discourage beginning contractors. The purpose of these requirements and qualifications is to allow the Village to obtain sufficient information about Bidder's financial state, available equipment, personnel, and previous work experience so that

the Village may mitigate the hazards involved in awarding contracts to parties who may not be qualified to perform the Work as specified.

COMPLETION DATE

Time is of the essence on this contract. The contractor shall complete all paving work by July 15, 2016. Final Landscaping shall be completed by September 15, 2016.

At the contractor's option, he may choose to begin work prior to the winter shut down. However, the contractor shall be responsible for the maintenance of the roadway once construction operations begin. Any opened paved surfaces shall be patched with a temporary 4-inch hot mix asphalt patch or other paved surface as approved by the village. The intent is to provide a paved access to the residents through the winter. The cost of any temporary patching and any subsequent maintenance shall be borne by the contractor.

INCREASED OR DECREASED QUANTITIES

The Village reserves the right to increase or decrease the amount of work shown in the plans in accordance with Section 109 of the Standard Specifications.

WAGE RATES

This contract calls for the construction of a "public work," within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/.01 et seq. ("the Act"). The Act requires contractors and subcontractors to pay laborers, workers and mechanics performing services on public works projects no less than the "prevailing rate of wages" (hourly cash wages plus fringe benefits) in the county where the work is performed. For information regarding current prevailing wage rates, please refer to the Illinois Department of Labor's website at: http://www.state.il.us/agency/idol/rates/rates.HTM. All contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice and record keeping duties.

SUBCONTRACTING

Add the following to the end of Section 108.01 of the Standard Specifications:

"The apparent low Bidder will submit to the Engineer within ten calendar days after the receipt of bids, a list of the names of Bidder's proposed subcontractors along with a description of the work to be performed by each."

WORKING HOURS

Working hours will be between 7:00 A.M. and 5:00 P.M., Monday through Friday, excluding legal holidays as designated by the Contract.

Contractor will not permit the performance of Work outside these working hours without Owner's written consent, which may be given after prior written request to Engineer, except as otherwise

required for the safety of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the Contract Documents.

If Contractor permits the performance of Work outside these working hours, Contractor will compensate Owner for the costs of inspection and other services provided by Engineer. Owner will determine the rates at which such inspection and other services are to be compensated. Owner will determine the interval or intervals at which billing will take place, and may, at Owner's discretion, submit invoices for payment to Contractor, or deduct the costs from any monies due or to become due to the Contractor from Owner.

HOLIDAYS

Add the following to the list of legal holidays in Article 107.09 of the Standard Specifications:

Thanksgiving Friday

Christmas Eve

New Year's Eve

INSURANCE

Insurance and indemnification shall be according to applicable sections of the Standard Specifications, and shall also be according to the "IRMA Contractual Insurance Guidelines", incorporated herein as Appendix A. If a conflict is determined to exist between the requirements prescribed in the Standard Specifications and the requirements prescribed in the IRMA Contractual Insurance Guidelines, such conflict will be resolved as follows:

a. If a particular type of insurance coverage is required by one standard but not by both, that type of insurance coverage will be required.

b. If the minimum limits of insurance coverage required by one standard differ from those required by the other standard, the higher minimum limits of insurance coverage will prevail.

c. If any other conflicts are determined to exist between the requirements prescribed in the two standards, the stricter of the two requirements will prevail. Owner will make the final determination as to what constitutes a stricter requirement.

MAINTENANCE GUARANTEE

The Contractor shall execute and deliver to the Village of Villa Park, before final payment will be issued, a written warranty, in a form satisfactory to the Village, which guarantees that the work is in accordance with the Contract Documents and will not be defective. This warranty shall guarantee this work for a period of one (1)-year from the date of acceptance of the work and final payment by the Village of Villa Park.

If within this guarantee period, any work is found to be defective, as determined by the Village, the Contractor shall promptly and without cost to the Village of Villa Park, correct or repair such

defective work, or remove and replace the defective work in accordance with the Special Provisions for the items in question.

The Contractor shall furnish a warranty bond in an amount equal to fifty percent (50%) of the contract amount by a surety satisfactory to the Village to guarantee Contractor's warranty to repair defective work.

MAINTENANCE OF ROADWAYS

Effective: September 30, 1985

Revised: November 1, 1996

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

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

MOBILIZATION

Mobilization will be according to Section 671 of the Standard Specifications except as modified herein.

Revise Article 671.02, Basis of Payment, to read:

"**671.02 Basis of Payment.** Mobilization will not be paid for separately but rather shall be included in the cost of the items for which this work applies."

TEMPORARY ACCESS

Revise Article 402.10 of the Standard Specifications to read:

"**402.10 For Temporary Access.** The contractor shall construct and maintain aggregate surface course for temporary access to private entrances, commercial entrances and roads according to Article 402.07 and as directed by the Engineer.

The aggregate surface course shall be constructed to the dimensions and grades specified below, except as modified by the plans or as directed by the Engineer.

(a) Private Entrance. The minimum width shall be 12 ft (3.6 m). The minimum compacted thickness shall be 6 in. (150 mm). The maximum grade shall be eight percent, except as required to match the existing grade.

(b) Commercial Entrance. The minimum width shall be 24 ft (7.2 m). The minimum compacted thickness shall be 9 in. (230 mm). The maximum grade shall be six percent, except as required to match the existing grade.

(c) Road. The minimum width shall be 24 ft (7.2 m). The minimum compacted thickness shall be 9 in. (230 mm). The grade and elevation shall be the same as the removed pavement, except as required to meet the grade of any new pavement constructed.

Maintaining the temporary access shall include relocating and/or regrading the aggregate surface coarse for any operation that may disturb or remove the temporary access. The same type and gradation of material used to construct the temporary access shall be used to maintain it.

When use of the temporary access is discontinued, the aggregate shall be removed and utilized in the permanent construction or disposed of according to Article 202.03."

Add the following to Article 402.12 of the Standard Specifications:

"Aggregate surface course for temporary access will be measured for payment as each for every private entrance, commercial entrance or road constructed for the purpose of temporary access. If a residential drive, commercial entrance, or road is to be constructed under multiple stages, the aggregate needed to construct the second or subsequent stages will not be measured for payment but shall be included in the cost per each of the type specified."

Revise the second paragraph of Article 402.13 of the Standard Specifications to read:

"Aggregate surface course for temporary access will be paid for at the contract unit price per each for TEMPORARY ACCESS (PRIVATE ENTRANCE), TEMPORARY ACCESS (COMMERCIAL ENTRANCE) or TEMPORARY ACCESS (ROAD).

Partial payment of the each amount bid for temporary access, of the type specified, will be paid according to the following schedule:

(a) Upon construction of the temporary access, sixty percent of the contract unit price per each, of the type constructed, will be paid.

(b) Subject to the approval of the Engineer for the adequate maintenance and removal of the temporary access, the remaining forty percent of the pay item will be paid upon the permanent removal of the temporary access."

CLEAN CONSTRUCTION / DEMOLITION DEBRIS (CCDD) REQUIREMENTS PER PA 94-1416

If the Contractor is planning on disposing of uncontaminated soils at an Illinois Environmental Protection Agency (IEPA) permitted CCDD facility, the work shall be conducted in accordance with the criteria set forth in 35 Illinois Administrative Code (IAC) 1100. The following protocol must be followed:

1. Expose soils at one or more distinct locations as directed by the Engineer and/or the Licensed Professional Engineer or Licensed Professional Geologist retained by the Contractor. The Licensed Professional Engineer or Licensed Professional Geologist should determine the number and location of the samples that should be collected for characterization of the excess soil that will be generated during the construction project.

2. Remove one foot or more of overburden to allow for soil sampling at depths specific to the excavation depths of the construction project as directed by the Licensed Professional Engineer or Licensed Professional Geologist.

3. Collect representative grab soil sample(s) for the following laboratory analysis: Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), Pesticides, Polychlorinated Biphenyls (PCBs), Total Metals (RCRA 8) and TCLP Metals (RCRA 8).

4. Submit grab soil sample(s) under a signed chain of custody form to an accredited laboratory for chemical analysis using USEPA Publication No. SW-846 Test Methods (*Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*) and in accordance with the requirements outlined in 35 IAC 742 (*Tiered Approach to Corrective Action Objectives*). The testing shall be conducted on a standard (5 to 7 day) or RUSH (1 to 3 day) turnaround-time as determined by the Contractor and their retained Licensed Professional Engineer or Licensed Professional Geologist. A list of accredited laboratories is available at the IEPA website (http://www.epa.state.il.us/well/list-acredited-labs.html).

5. Documentation of any chemical analysis must include but is not limited to:
   - Chain of custody control;
   - A copy of the lab analysis;
   - Accreditation status of the laboratory performing the analysis; and
   - Certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the IEPA's rules for the accreditation of environmental laboratories and the scope of the accreditation.

6. If the soil is determined to be clean, the Contractor shall provide the *Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation* Form (IEPA Form LPC-663) completed and signed by their Licensed Professional Engineer or Licensed Professional Geologist.

7. The Contractor shall provide a copy of all lab analyses and certification forms to the intended CCDD facility and the Engineer.

It is up to the Contractor to coordinate with their intended receiving CCDD facility in advance of bidding to ensure that the facility will accept material from the project area and whether additional laboratory testing or certifications are required for disposal acceptance, beyond what has been outlined above. If the intended CCDD facility selected by the Contractor will require additional documentation or testing, it is the Contractor's responsibility to provide this information and include it in the cost of this item of work. This work shall not be paid for separately but shall be included in the various removal items.

If any contaminated soil is encountered that requires landfill disposal as a non-special waste, special waste or hazardous waste, it will be paid for per Article 109.04 of the Standard Specifications.

RESPONSIBILITY FOR VANDALISM

The contractor shall be responsible for the defacement of any concrete pours before they have set up. Concrete pavement, sidewalk, driveway, or curbing that has been defaced, in the opinion of the Engineer, shall be removed and replaced by the contractor at his expense.

CONTINGENCY ALLOWANCE

A contingency allowance pay item is provided as a part of this contract for the purpose of facilitating the completion of unforeseen or additional work not included in the contract as awarded, and which is determined by the Engineer to be necessary and germane to the contract.

Use of the contingency allowance will be at the discretion of the Engineer. The Engineer may, at his/her discretion, use the contingency allowance for any of the following reasons:

(a) Facilitate a temporary payment allowance to the Contractor for work completed under existing contract pay items and for which completed quantities exceed contract quantities;

(b) Facilitate a temporary payment allowance to the Contractor for work completed beyond the scope of existing contract pay items; or

(c) Facilitate a temporary payment allowance to the Contractor for the purchase of equipment, materials or such other requisition as Engineer determines to be necessary for the completion of the Work.

Such use of the CONTINGENCY ALLOWANCE will be further subject to approval by Owner. Owner's decision with regard to use of the CONTINGENCY ALLOWANCE will be final.

A. Any payments made to Contractor under the CONTINGENCY ALLOWANCE will be considered temporary, and will only be retained by Contractor until such time that an authorization of contract changes can be approved and incorporated into the contract.

B. Contractor, in accepting payments made under the CONTINGENCY ALLOWANCE, agrees to the terms of this and other applicable special provisions. Contractor agrees to relinquish any monies and any claim to monies paid under the CONTINGENCY ALLOWANCE upon approval of an authorization of contract changes and payment for any work for which payment was previously made under the CONTINGENCY ALLOWANCE. Contractor further agrees to return any monies previously paid thereunder.

C. The CONTINGENCY ALLOWANCE pay item for this contract has been established with a unit of measurement in dollars, a quantity of $50,000.00, and a contract unit price of one dollar ($1.00), for a total CONTINGENCY ALLOWANCE contract price of Fifty Thousand dollars and no cents ($50,000.00). Bidder, in submitting a bid,

accepts the quantity, unit price, and total contract price of the CONTINGENCY ALLOWANCE.

Basis of Payment. This work will be paid for at the contract unit price per dollar for CONTINGENCY ALLOWANCE. The total bid amount for this item will be $50,000.00.

PRECONSTRUCTION VIDEO RECORDING

Description. This work consists of performing color video and audio recording of the project area and other areas which may be impacted by construction.

Preconstruction video recordings will include coverage of the project area and all other areas which may be impacted by construction. Video recordings will also include construction easements when applicable. Video recordings will provide a visual record of all physical features within those areas, including, but not limited to, roadways, pavements, curbs, gutters, driveways, driveway aprons, sidewalks, carriage walks, parkways, trees, landscaping, shrubbery, plantings, landscaping walls, retaining walls, signs, sign posts, fences, utility poles, light poles, utilities, equipment, manholes, b-boxes, cleanouts, valves, curb structures, pipelines, buildings, mailboxes, and any other features located within the project area.

Video recordings will begin with an audio narrative which provides the current date and time, the name of Owner and name of project, and a description of both the starting location and the location or locations to be recorded, including street name or names, street addresses, and any additional information which may be necessary to describe the location and subject of viewing.

Video recordings will maintain viewer orientation by means of an audio commentary in the audio track of each video recording which provides an explanation of what is being viewed; and by videotaping landmarks and readily identifiable objects (property addresses, street signs, etc.) at appropriate intervals.

Preconstruction video recordings will be recorded at a rate of travel not exceeding 48 feet per minute, and zooming and panning rates will be controlled to provide clarity of features during playback. The finished product will be provided with bright, clear pictures and accurate colors free from distortion, tearing, rolls, or other forms of picture imperfection. The audio will have proper volume and clarity. All recordings will be performed at times of satisfactory visibility, and when no more than ten percent of ground is obscured by snow, leaves, or other cover.

If any element within or portion of the project area is not adequately documented by the preconstruction video recording so as to definitively demonstrate its condition prior to the start of construction, Contractor will assume responsibility for the repair, restoration or replacement of that element or portion of the project area. Such repair, restoration or replacement will be to equal or better condition than previously existing, and will further comply with all standards and provisions which govern the work in question.

Schedule. Preconstruction video recording will be performed according to the following schedule:

(a) Preconstruction video recording will take place after a Notice to Proceed has been issued.

(b) Preconstruction video recording will take place after the Joint Utility Locating Information for Excavators (JULIE) request for the project area has cleared.

(c) Preconstruction video recording will take place before any equipment, materials, or other items are delivered to the site.

(d) Preconstruction video recording will take place no more than seven (7) chargeable days prior to the start of construction.

(e) Preconstruction video recording will take place, the required pre-construction video recording deliverables will be submitted to the Engineer, and the Engineer will review and issue written approval of the video before any activity other than utility locating will be permitted to start. Such activity will include, but not be limited to, delivery of materials and equipment, installation of traffic control and erosion control, and completion of construction layout and tree protection. No days will be charged against the contract time while the video is under review by the Engineer, including the day the deliverables are submitted and the day a response is provided. If the video or any portions thereof are rejected, the contract time will commence to run until revisions are submitted.

(f) The recording will be submitted to Engineer for review prior to commencement of any construction, and receive acceptance of recordings prior to commencement of construction. Any areas found not acceptable to the Owner will be re-filmed at no additional cost to the contract.

Deliverables.

Video will be high-definition, with a minimum resolution of 1280 x 720 pixels per frame. Video will be filmed in a landscape aspect ratio. Video filmed in a portrait aspect ratio will be considered unacceptable and will be rejected.

Preconstruction video recordings will be provided as electronic files of .avi, .mp4, .m4v, .mkv, .wmv, or .mpg file format, or of such other file format as may be approved by Engineer. Preconstruction video recordings will be provided as independent digital container format files, which container files will include all video, audio, and other electronic information necessary to view the preconstruction video recording as intended.

Video DVD will be considered an unacceptable format for providing preconstruction video recordings, and will be rejected.

Preconstruction video recording electronic files will be provided on a portable electronic media device or devices of one of the following types: USB flash drive, SD flash memory card, CF flash memory card, data DVD, external hard drive, or such other portable electronic media device as may be approved by Engineer. Preconstruction video recording electronic files may also be provided via online file sharing, cloud storage, File Transfer Protocol (FTP), or other online or network file transfer methods if approved by Engineer.

Preconstruction video recording electronic files will be accompanied by corresponding logs which document the dates, times, and locations covered by each preconstruction video recording electronic file.

Contractor shall maintain copies of all items submitted to Engineer for Contractor's own use and record.

Method of Measurement. This work will be measured for payment on a lump sum basis. No measurement will be made of the individual components of this effort.

Basis of Payment. Preconstruction video recording will be paid for at the contract lump sum price for PRECONSTRUCTION VIDEO RECORDING.

TRAFFIC CONTROL AND PROTECTION

Traffic Control shall be according to the applicable sections of the Standard Specifications, the Supplemental Specifications, the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", any special details and Highway Standards contained in the plans, and the Special Provisions contained herein. Local access to the properties shall be maintained throughout construction. Temporary aggregate will be used for such access. The contractor shall erect "Road Closed Local Traffic Only" and install Type III barricades at the entranceway to the construction zone. "Road Construction Ahead" and Road Closed Ahead" signs shall be posted per 701501 and the Traffic Control Plan contained in the plans.

Special attention is called to Article 107.09 and Section 701 of the Standard Specifications and the latest edition of the following Highway Standards, Details, Quality Standard for Work Zone Traffic Control Devices, Recurring Special Provisions and Special Provisions contained herein, relating to traffic control.

STANDARDS: 701501, 701801, 701901, BLR 17-4

DETAILS: TC-10, Traffic Control Plan

SPECIAL PROVISIONS: Traffic Control and Protection

Work Zone Traffic Control shall be paid for at the contract unit price, lump sum for TRAFFIC CONTROL AND PROTECTION.

SAW CUT JOINTS

The removal and/or replacement of any driveways, pavement, curb, sidewalk, etc. shall be accomplished by means of a saw cut joint, at the direction of the Engineer. This work will not be paid for separately, but shall be included in the unit price bid for the various items.

TREE PRUNING (ALL SIZES)

All work shall be completed in accordance with Section 201 of the Standard Specifications for Road and Bridge Construction. This work shall be paid for per EACH for TREE PRUNING (ALL SIZES).

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

All work shall be completed in accordance with Section 424 of the Standard Specifications for Road and Bridge Construction. The sidewalk shall be placed on a 4-inch CA-6 aggregate bedding. The cost of the bedding shall be included in the cost of the sidewalk.

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

The height of the concrete curb may be modified if directed by the engineer to accommodate special circumstances in the field. The height may vary from a 4-inch (minimum) to 8-inch (maximum) curb height.

HOT-MIX ASPHALT SURFACE REMOVAL – BUTT JOINT

Prior to the placement of the final surface course, a maximum 10 foot butt joint shall be provided to transition to the existing pavements beyond the project limit. Sawing the Hot Mix Asphalt Surface will be required and will be considered incidental to the cost of the work.

This work will be paid for at the contract unit price bid per SQUARE YARD of HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT for the butt joints as directed by the engineer.

SODDING, SPECIAL

This work shall consist of preparing the ground surface, fertilizing the areas to be sodded and furnishing and placing the sod. The locations to be sodded shall be those areas within the right-of-way. All work shall be in accordance with the applicable portions of Section 211 and 252 of the Standard Specifications.

180 pounds of fertilizer nutrients per acre shall be applied at a 1:1:1 ratio as follows:

1. Nitrogen Fertilizer Nutrient 60 lb/acre
2. Phosphorus Fertilizer Nutrient 60 lb/acre
3. Potassium Fertilizer Nutrient 60 lb/acre

Watering shall be as specified in the Standard Specifications and shall be the contractor's responsibility to guarantee the growth of the sod regardless of the number of waterings required.

This work shall be measured in place and the area calculated in square yards and shall be paid for at the contract unit price per SQUARE YARD for SODDING, SPECIAL, which price shall be full compensation for all labor, equipment, and material to complete the work as specified in these special provisions.

SEEDING, SPECIAL

This work shall consist of preparing the ground surface, fertilizing the areas to be seeded and furnishing and placing the seed. The locations to be seeded shall be those offsite areas disturbed as a result of the sewer installation. All work shall be in accordance with the applicable portions of Section 211 and 250 of the Standard Specifications.

180 pounds of fertilizer nutrients per acre shall be applied at a 1:1:1 ratio as follows:

1. Nitrogen Fertilizer Nutrient 90 lb/acre
2. Phosphorus Fertilizer Nutrient 90 lb/acre
3. Potassium Fertilizer Nutrient 90 lb/acre

Watering shall be as specified in the Standard Specifications and shall be the contractor's responsibility to guarantee the growth of the sod regardless of the number of waterings required. Hydroseeding may be done in lieu of the Class I seeding method.

This work shall be measured in place and the area calculated in square yards and shall be paid for at the contract unit price per SQUARE YARD for SEEDING SPECIAL, which price shall be full compensation for all labor, equipment, and material to complete the work as specified in these special provisions.

POROUS GRANULAR EMBANKMENT, SPECIAL

This item shall consist of furnishing, transporting and placing porous granular embankment as directed by the Engineer in accordance with the applicable portions of Section 207 of the Standard Specifications. The material shall be used in unstable areas and only as directed by the Engineer. Excavation of the unstable areas will be included in REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. The material shall conform with Article 1004.05 of the Standard Specifications except the gradation shall be as follows:

1. Crushed Stone, Crushed Concrete

Sieve Size	Percent Passing
6" *	90+10
2"	40+25
#200	0+10

2. Gravel, Crushed Gravel

Sieve Size	Percent Passing
6" *	90+10
2"	60+25
#4	40+20
#200	5+5

* For undercut less than 18", sieve size may be 4".

The porous granular embankment shall be placed in lifts not to exceed two (2) foot thick or as directed by the Engineer. The depth of undercut shall be as directed by the Engineer. Rolling the top of this replacement material with vibratory roller meeting the requirements of Article 1101.01(g) of the Standard Specifications should be sufficient to obtain the desired keying or interlock and necessary compaction. The Engineer shall verify that adequate keying has been obtained.

This work shall be paid for at the contract unit price per CUBIC YARD for POROUS GRANULAR EMBANKMENT, SPECIAL.

The porous granular embankment shall be used as field conditions warrant at the time of construction. No adjustment in unit price will be allowed for an increase or decrease in quantities.

INCIDENTAL HOT-MIX ASPHALT SURFACING, RESIDENTIAL

This item will consist of the placement of new Hot-Mix Asphalt surfaced residential driveways at locations shown on the plans or as directed by the Engineer. This work shall be performed in accordance with Section 408 of the Standard Specification, and the detail shown on the Plans, except as modified herein. Aggregate Base that needs replacement shall be restored with six (6") inches of Aggregate Base Course Type B. The HMA driveways shall consist of four inches (4”) of Hot-Mix Asphalt. The material must be installed in two lifts. Two and a half inches (2.5”) of Hot-Mix Asphalt binder course placed on the existing compacted aggregate base followed by one and a half inches (1.5”) of Hot-Mix Asphalt surface course. If the existing aggregate base is to be reused it shall be graded, rolled, and primed prior to placement of the Hot-Mix Asphalt binder. Both lifts of the Hot-Mix Asphalt will be compacted using a small, steel-wheeled roller.

All work required to prepare the base including but not limited to grading, compacting, and priming shall be included in the cost of this item. If additional aggregate base is required to bring the driveway to proper grade it shall be included as incidental to the cost of this item.

Payment shall be at the Contract unit price per Square Yard for INCIDENTAL HOT-MIX ASPHALT SURFACING, RESIDENTIAL.

PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 6”, RESIDENTIAL

Where existing residential concrete driveways are removed, as directed by the Engineer, they shall be restored with a minimum four inches (4”) of cushion of CA 6 stone and six inches (6”) of Portland Cement Concrete. This work shall be done in conformance with Sections 423 and 440 of the Standard Specifications. A maximum width of driveway replacement shall be from the existing back of curb to the existing face of sidewalk unless agreed to otherwise by the Engineer.

The concrete finish shall match that of the existing driveway (i.e. Broom Finish, California finish, etc.). Any special finish to match the existing driveway and any required removal and replacement of brick pavers adjacent to the concrete driveways shall be considered incidental to the cost of this item.

The saw cutting and any additional excavation required to construct these driveways will be considered incidental to the driveway removal. The placement of a minimum four inches (4") of CA 6 stone will be considered incidental to driveway placement. This work will be paid for at the contract unit price per SQUARE YARD for PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 6", RESIDENTIAL.

RELOCATE EXISTING CONCRETE WHEEL STOPS

This work shall consist of the removal of the existing concrete wheel stops prior to removal operations and stockpiling them in an area not to interfere with the construction operations. Upon completion of the final asphalt surface, the existing stops shall be replaced in their designated position and secured in place with the original stakes. Should the existing stakes become bent or unable to be reused the bumpers shall be secured with two (2) eighteen inch (18") #5 reinforcement bars. Any existing extra bumpers not needed shall be stockpiled at the northeast corner of the parking lot. Should any of the existing bumpers be damaged or become unusable, the Contractor will replace them with new stops at the contractors expense.

This work will be paid for at the contract unit price bid per EACH for RELOCATE EXISTING CONCRETE WHEEL STOPS.

DETECTABLE WARNINGS

This item shall consist of the placement of detectable warning plates in accordance with the IDOT Standard drawings and in accordance with Article 424.09 of the Standard Specifications. The detectable warning plate(s) shall be polymer composite material red in color and meet the Village of Villa Park Standards. The Contractor is responsible for the installation of the device according to the manufacturer's specifications and the handicap ramp as described in the contract plans and specifications. This work will be paid for at the contract unit price per SQUARE FOOT for DETECTABLE WARNINGS and will include all materials, equipment and labor required to complete the work as specified above.

USE OF FIRE HYDRANTS

Effective: August 27, 2013

Revised: February 7, 2014

Revise Article 107.18 of the Standard Specifications to read:

"**107.18 Use of Fire Hydrants.** If Contractor requires water for the completion of construction operations, and desires to obtain water from Owner, Contractor shall make application to Engineer accordingly. If such application is approved by Engineer, Contractor shall obtain water from the fire hydrant located at 100 West Home Avenue, adjacent to the Village of Villa Park Fleet Maintenance Garage. Contractor's use of said hydrant and methods of obtaining water shall be in compliance with all applicable local ordinances, rules, and regulations concerning such use. Contractor shall furnish all labor and equipment necessary to make a connection to said hydrant, and to obtain and transport water. Contractor, in obtaining water from said hydrant, shall either:

(a) Make application to Engineer for temporary use of a hydrant meter, comply with all conditions requisite for use of said meter if such application is approved, and use said hydrant meter when obtaining water from hydrant; or

(b) Make record of the quantity of water obtained from said hydrant along with the date and time obtained, and report such information after each use to the Village of Villa Park Public Works Department, 11 West Home Avenue, or, if such use takes place outside of the normal working hours of the Public Works Department, report such information after the next use which takes place during normal working hours.

Contractor shall not use, operate or obtain water from any hydrants other than the one prescribed. Contractor shall not obtain water from Owner for construction operations or activities not under contract with Owner.

Contractor shall compensate Owner for water obtained by Contractor at the current rate charged to commercial customers by Owner, which rate may also include any administrative fees, overhead, or other costs which are typically charged to commercial customers. The actual quantity of water obtained by Contractor may, at Owner's discretion, be rounded up to the next 1,000 gallon increment so as to coincide with standard units of measure on which water billing rates are based. Owner will determine the interval or intervals at which billing will take place, and may, at Owner's discretion, submit invoices for payment to Contractor, or deduct the cost of water from any monies due or to become due to the Contractor from Owner."

PROTECTION OF EXISTING DRAINAGE FACILITIES DURING CONSTRUCTION

Unless otherwise noted in the contract plans, the existing drainage facilities shall remain in use during the period of construction.

Locations of existing drainage structures and sewers, if shown on the contract plans, are approximate. Prior to commencement of work, the Contractor, at his/her own expense, shall determine the exact location of existing structures which are within the proposed construction site.

All drainage structures are to be kept free from any debris resulting from construction operations. All work and materials necessary to prevent accumulation of debris in the drainage structure resulting from construction operations shall be removed at the Contractor's own expense, and no extra compensation will be allowed.

Unless reconstruction or adjustment of an existing manhole, catch basin, or inlet is called for in the contract plans or ordered by the Engineer, the proposed work shall meet the existing elevations of these structures. Should reconstruction or adjustment of a drainage structure be required by the Engineer in the field, the necessary work and payment shall be done in accordance with Section 602 and Article 104.02 respectively, of the Standard Specifications.

Existing frames and grates are to remain unless otherwise noted in the contract plans or as directed by the Engineer. Frames and grates that are missing or damaged prior to construction shall be replaced. The type of replacements frame or grate shall be determined by the Engineer, and replacement and payment for same shall be in accordance with Section 604 and Article 104.02 respectively, of the Standard Specifications unless otherwise noted in the plans or special provisions.

STORM SEWERS

All storm sewers, unless otherwise specified, shall be in accordance with Section 550, except Class A sewers shall only consist of reinforced concrete sewer.

STORM SEWERS, PVC, SDR 26, 6”

This work shall consist of the extension of a 6-inch PVC pipe for a future storm water service connection as directed by the village. The pipe materials shall be PVC, SDR 26 pipe. All work shall comply with Section 550 of the Standard Specification.

PIPE UNDERDRAINS, FABRIC LINED TRENCH

This work shall consist of furnishing all materials, equipment and labor required for the installation of pipe underdrains in a geotechnical fabric sock in accordance with the applicable portions of Section 601 of the Standard Specifications and as shown on the details in the plans.

The geotechnical fabric shall meet the material requirements specified in Section 1080.01 of the Standard Specifications. The pipe shall be perforated PVC or PE in accordance with Section 1040.03 or 1040.04.

Pipe underdrains shall be measured for payment in feet in place. Geotechnical fabric, excavation or backfill will not be measured separately for payment.

This work will be paid for at the contract unit price per foot for PIPE UNDERDRAINS 6", which price shall include the furnishing of pipe underdrain and connecting hardware, all excavation and disposal of surplus material excavated from the trench, furnishing and placing the geotechnical fabric, placing the pipe in the trench, furnishing and placing bedding, backfilling with aggregate, and all other labor and equipment necessary to complete the work as indicated in the plans. The depth of the underdrain shall be as shown in the plans or as directed by the Engineer.

CATCH BASINS, ALTERNATE FRAME AND GRATE

This work shall be in accordance with Section 602 except reduced frames shall be used in lieu of the standard Type 11’s. The frame shall be 4” high, similar to Neenah 1037 with a flat open M1 grate covering an approximate 24” diameter. This work shall be paid for at the contract unit price per EACH for CATCH BASINS, TYPE A, 5’-DIAMETER, ALTERNATE FRAME AND GRATE.

MANHOLES, TYPE A, 5' DIA., WITH TYPE 1 FRAME, CLOSED LID (SANITARY)

This work consists of the installation of 5' diameter manholes and type 1 frame and closed lids per Section 602 of the Standard Specifications. This item shall be only be used where sanitary sewer service adjustments cannot be made using one of the adjustment items due to the

elevation or size of the storm sewer. A manhole shall be placed at the junction of the mainline storm sewer and sanitary service. The existing sanitary sewer service shall be removed and ductile iron pipe will run through the manhole. No joints will be allowed in the manhole.

This will be paid for at the contract unit price per EACH for MANHOLES, TYPE A, 4' DIA., WITH TYPE 1 FRAME, CLOSED LID (SANITARY), which includes manholes, backfilling, frames and lids and all material, labor and equipment necessary to complete the work. Payment for the ductile iron is paid for under other items.

FRAMES AND LIDS

This item provides for the installation of new type 1 frame and lid for any structure to be adjusted or reconstructed where the frame is in a poor condition. All closed lids will have gasketed covers. The engineer shall direct where these frames shall be used.

Also included in this item is the furnishing and placement of frames and lids at those manholes where the adjustment of the manhole will require a reduced depth frame due to change in roadway profile. These frames and lids shall be watertight, heavy duty 4" frame depths such as East Jordan 1037 or approved equal. Note that the lid is to be closed. This item shall only be used at the direction of the Engineer after existing and proposed elevations are taken and determined that the four (4") inch frames will be required.

All closed lids shall be self-sealing with concealed pick holes. All closed lids will be stamped with “STORM”, “SANITARY”, or “WATER” as appropriate.

All other structures shall be fitted with the Frames and Lids as directed by the engineer in accordance with Section 604 of the Standard Specifications.

PRECAST CONCRETE JUNCTION CHAMBERS

Description. This work shall consist of the construction of junction chamber of precast reinforced concrete, together with the necessary precast reinforced concrete risers, steps, cast iron frames and grates or lids, manufactured and installed in place, at the locations shown on the plans, as herein specified, and as directed by the Engineer. For the connection of existing sewer pipes, a 2 foot concrete collar shall be poured around the pipe connection to the chamber.

Alternative. The contract also has an item for a 7 foot diameter manhole, special that might be allowable for use at this installation. Prior to the final determination, the contractor shall perform an Exploratory Excavation to determine the actual connections to the 48 inch segmented tile. The village will determine if any of the existing connections can be abandoned at this time. If a single pipe connection will remain, the contractor will install the 7 foot diameter manhole in lieu of the Junction Chamber. The manhole shall be installed per Section 602 of the Standard Specifications, with a 2 foot concrete collar poured around the pipe connections to the manhole.

Construction Requirements. The precast reinforced concrete junction chamber shall conform to the applicable requirements of Section 504 and 602 of the Standard Specifications and as herein specified. The precast reinforced concrete sections shall be constructed, sealed and installed with sand cushion in accordance to Article 602.07 of the Standard Specifications.

Precast reinforced concrete risers, when required, shall conform to the requirements of AASHTO M199 and shall have a minimum thickness of 150 mm (6 inches).

Frames and grates or lids shall conform to the requirements of Articles 1006.15 and 604 of the Standard Specifications. Steps shall be cast gray iron conforming to Articles 1006.14 and 602.08 of the Standard Specifications and shall be embedded into the wall a minimum of 75 mm (3 inches) and shall not be extended on the outside. Steps shall be omitted when the depth of the junction chamber is 1.5 m (5 feet) or less.

Shop drawings for the precast reinforced concrete junction chamber shall be submitted by the Contractor to the Engineer for approval, on sheets 594 mm by 841 mm (24 inches by 36 inches) in size, in accordance with the requirements of Article 504.04(a) of the Standard Specifications. Design calculations for the precast reinforced concrete junction chamber shall also be submitted by the Contractor for approval.

The shop drawings shall be signed and sealed by an Illinois Licensed Structural Engineer, certifying that the precast reinforced concrete junction chamber design is structurally adequate for the design loading shown on the plans. The design shall be in accordance with the most current AASHTO specifications for the Design of Highway Bridges considering all load types and combinations.

The excavation and backfilling for the precast reinforced concrete junction chamber shall be in accordance with the requirements of Article 602.11 of the Standard Specifications.

Newly constructed junction chambers shall be cleaned of any accumulation of silt, debris, or foreign matter of any kind, and shall be free of accumulations at the time of final inspection.

Basis of Payment**.** This work will be paid for at the either the contract unit price LUMP SUM for PRECAST CONCRETE JUNCTION CHAMBER NO. 1 or MANHOLES, TYPE A, 7' DIA., WITH TYPE 1 FRAME, CLOSED LID (SPECIAL), which price shall include all excavation and backfill (except excavation in rock) and furnishing and installing the specified frames and grates or lids, steps, precast concrete risers, sand cushion, concrete collars, pipe connections, and the entire structure complete in place. EXPLORATORY EXCAVATION – JUNCTION CHAMBER will be paid for as LUMP SUM and will include the required trench backfill necessary to fill the excavated areas.

The cost of furnishing the required shop drawings and design calculations shall be included in the contract unit price LUMP SUM for PRECAST CONCRETE JUNCTION CHAMBERS**.** The Contractor shall bear all risk and delay caused by non-approval of the drawings.

INLET FILTERS

All work shall be completed is accordance with Section 280 of the Standard Specifications for Road and Bridge Construction and will include the cleaning and maintenance of the inlet filters until such time as the project is accepted by the village. No additional compensation will be allowed for the cleaning and maintenance as directed by the field engineer.

PLUG EXISTING SEWER

This work shall consist of the plugging of existing structures and sewers as shown on the plan or as directed by the engineer in accordance with Section 550.05 of the Standard Specifications. Both ends of all pipes to be abandoned shall be plugged.

This work will not be paid for separately, but shall be included in the cost of the removal, adjustment, reconstruction, or replacement of the item to which it pertains.

WATER SERVICE ADJUSTMENTS

This item shall include the adjustments of any water main services encountered by the construction of the sewer and water main. The Contractor shall make every attempt possible to avoid these facilities, and if in the opinion of the Engineer, the facilities are damaged due to carelessness by the Contractor, no compensation will be made for the replacement of same.

If adjustment of certain services is necessary, the work shall be done in a workmanlike fashion, minimizing the downtime of the residents' services, and shall include all necessary labor and materials to properly complete the adjustment. Work on these items shall be paid for at the contract unit price per EACH for WATER SERVICE ADJUSTMENT with the costs of each item as stated in the bidding schedule which price shall include the cost of all pipe, joint materials, trench backfill, labor and equipment needed to complete the work as stated.

WATER MAIN TO BE ADJUSTED

This work shall consist of lowering or raising existing watermain under or around proposed sewers at locations shown on the plans, directed by the engineer or that are in conflict with the proposed sewer.

The ductile iron pipe shall conform to ANSI Specifications A21.51 or AWWA C151, and be Class 52. All cast iron fittings shall conform to the latest ANSI A21.10 and AWWA C110. The ductile iron pipe shall be cement lined in accordance with ANSI Specifications A21.4 and AWWA Specification C104. The water main shall be provided with Rubber Gasket Joints that shall be in compliance with ANSI A21.11 and AWWA C111.

Pipe shall be installed in accordance with the manufacturer's specifications and instructions for the type of pipe used and applicable AWWA Standards, such as C600 and C503.

All work shall be done in accordance with Section 561 of the Standard Specifications.

The cost of this work, including all necessary fittings and bends, shall be paid for the contract unit price bid per FOOT of WATER MAIN TO BE ADJUSTED of the size indicated on the plan.

DUCTILE IRON SANITARY SEWER

This work includes the removal of existing sanitary sewer and the replacement of same with ductile iron, Class 52 sanitary sewer at locations called out on the plan or as directed by the engineer. It will also include existing sanitary services placed through newly constructed

sanitary manholes where no adjustment is possible. No joints will be allowed inside manholes or underneath the proposed storm sewer. Any trench backfill required shall be considered incidental to this item.

The pipe shall be "Ductile Iron," ANSI thickness Class 52, Clow "Super Bell-Tite," "Push-On Joint, or approved equal, and must meet all applicable requirements of ANSI A21.51-1976 (AWWA C151-76), ANSI A21.11 (AWWA C111), and ANSI A21.4 (AWWA C104) specifications. Connections of proposed ductile iron to existing sewer shall be of a method approved by the engineer.

This will be paid for at the contract unit price per FOOT for DUCTILE IRON SANITARY SEWER 6" which includes the removal of portions of the existing sewer, connection and installation of the proposed sewer, trench backfill, and all labor, equipment and material necessary to complete the work.

SANITARY SERVICE LINE TO BE ADJUSTED

This item shall include the adjustments of any sanitary services encountered by the construction of the storm sewer. The Contractor shall make every attempt possible to avoid these facilities, and if in the opinion of the Engineer, the facilities are damaged due to carelessness by the Contractor, no compensation will be made for the replacement of same. No compensation will be given for disconnecting the service to facilitate the storm sewer placement if no actual grade conflict exists.

Any replacement of mainline sanitary sewer pipe due to the change in inlet position shall be included in the cost of this item. All other work shall be as called for in item 563 of the Standard Specifications. All sanitary services shall be replaced with ductile iron pipe for 10 feet on either side of the water main. Non shear mission couplings shall be used.

Any adjustment under the proposed roadway shall be backfilled in accordance with Section 210 and be included in the cost of this item. Should new sanitary sewer be required, PVC SDR 26, ASTM D2241 shall be used.

It is not anticipated that any reconnections will be made to the existing segmented tile pipe.

Work on this item shall be paid for at the unit price bid per FOOT for SANITARY SERVICE LINE TO BE ADJUSTED, which price shall include the cost of all pipe, joint materials, trench backfill, labor and equipment needed to complete the work as stated.

CONCRETE COLLAR SPECIAL

It is not anticipated that any reconnections will be made to the existing segmented tile pipe. If in the opinion of the engineer a reconnection is unavoidable, the contractor shall utilize the existing hole in the pipe for the new service line. Additionally, the connection shall be encased in concrete with a #4 round reinforcement bar. The detail of the encasement shall be as approved by the field engineer.

This work shall only be completed if the engineer approves a connection extended to the segmented tile, with the encasement to be paid for as an additional item per EACH for CONCRETE COLLAR SPECIAL.

WATER SYSTEM IMPROVEMENT STAGING NOTES

A portion of the proposed water system improvement will require shutting off the water service to the Montessori Children's' Academy. This portion of the work will have to take place on a Saturday when School is not in session and is to precede any other water system improvements. This work is as follows and shall be done in this order:

1. Install the new valve at the southwest corner of Park Blvd and Riverside Drive (this valve will allow for other work to take place while keeping water access to the school)
2. Replacement of the exiting water valves at the southeast corner of Park Blvd and Riverside Drive (2 valves)
3. Replacement hydrants east of Riverside Drive (2 hydrants)
4. Shut-off for the installation of the replacement valves shall be completed with the minimal amount of disruption to the water system. The contractor shall submit his operational staging plan for each location to the village for approval prior to any shut down.

WATER SERVICE LINE 1 INCH (SHORT)

This item shall include the installation of new water services along the same side of the right-of-way as the main, and all necessary appurtenances from the existing water main to the property line or at a location as directed by the Engineer. This work will only be done when directed by the Engineer due to a conflict that cannot otherwise be resolved. All work shall be completed in accordance with Section 562 of the Standard Specifications. The water service installation shall start from the water main with a 1" corporation stop. The contractor shall install new connection fittings, 1" k-copper pipe, 1" roundway, curb box (Minneapolis Pattern 1½", Mueller H10302), connection fittings to 1" fittings, excavation, bedding, and trench backfill with CA-7 as required to reach the property line.

Corporation stops will be a Mueller H-15000. Curb stops shall be Mueller H15154, Minneapolis Pattern type. They shall be installed in the parkway and in no case shall be positioned in a sidewalk or driveway or buried underground. A cement or brick block shall be placed under each curb stop to ensure stability. All material shall be as approved by the Owner prior to installation. The cost for the materials, excavation, reconnection of the water services, trench backfill material shall all be included for at the contract unit price per EACH of WATER SERVICE LINE 1 INCH (SHORT).

WATER SERVICE LINE 1 INCH (LONG)

This item shall include the installation of new water services, augered or open cut (prior to the pavement construction) beneath the roadway, and all necessary appurtenances from the

existing water main to the property line. This work will only be done when directed by the Engineer due to a conflict that cannot otherwise be resolved. This item is for service connections on the opposite side of the main. The water service installation shall start from the water main with a 1" corporation stop. The contractor shall install new connection fittings, 1" k-copper pipe, 1" roundway, curb box (Minneapolis Pattern 1½", Mueller H10302), connection fittings to 1" fittings, excavation, bedding, and trench backfill with CA-7 as required to reach the property line.

Corporation stops will be a Mueller H-15000. Curb stops shall be Mueller H15154, Minneapolis Pattern type. They shall be installed in the parkway and in no case shall be positioned in a sidewalk or driveway or buried underground. A cement or brick block shall be placed under each curb stop to ensure stability. All material shall be as approved by the Owner prior to installation. The cost for the materials, augering, excavation, reconnection of the water services, trench backfill material, parkway restoration to the original condition, sidewalk removal and replacement and any pavement removal and replacement shall all be included for at the contract unit price per EACH of WATER SERVICE LINE 1 INCH (LONG).

EXPLORATION TRENCH

This work shall consist of exploratory excavation to determine the depths and locations of various utilities. Quantities have been provided for exposing the existing water services to determine its type, and whether it warrants replacement. This work shall be paid for per EACH for EXPLORATION TRENCH (WATER). Exploratory digging of other utilities shall be in general conformance with Section 213 and paid for at the contract unit price per EACH for EXPLORATION TRENCH.

CONNECTION TO EXISTING WATER MAIN (NON-PRESSURE), 6 INCH

This item shall consist of a Cut-in Tee (Tee of various types and sizes) installed in accordance with these specifications and as directed by the Engineer.

The work involved in cutting in a tee shall consist of excavation, shut-down and isolation of the existing main to which the new main or hydrant is to be connected; cutting pipe for the connection; solid sleeve for the tee installation, mechanical joints (megalug or approved equal), dewatering the excavation; customer notification of service interruption where required, installation of all pipe used to complete the connection, all necessary tie-ins (connections to existing or new main), fittings, thrust blocking as required, and backfilling the excavation.

This work will be paid for at the contract unit price per EACH for CONNECTION TO EXISTING WATER MAIN (NON-PRESSURE) of the size specified, which price shall include all materials and labor for complete installation. Such payment shall also include protective coating materials for bolts, nuts, ferrous surfaces, solid repair sleeve where required and any necessary hauling and disposition of surplus excavated materials.

VALVE BOXES TO BE REMOVED

Existing valve boxes that are noted to be removed shall be removed in accordance with the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, and the

Village of Villa Park “Water Distribution” standards as published by the village and available on the village website. All details for the removal shall be in accordance with and approved by the Villa Park Public Works department.

This work will be paid for at the contract unit price per EACH for VALVE BOXES TO BE REMOVED, which price shall include all materials and labor necessary for the work.

FIRE HYDRANTS TO BE REMOVED

Existing fire hydrants that are noted to be removed shall be removed in accordance with the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, and the Village of Villa Park “Water Distribution” standards as published by the village and available on the village website. All details for the removal shall be in accordance with and approved by the Villa Park Public Works department. Hydrants to be removed will be delivered for salvage to the public works garage or if directed by the village, disposed of by the contractor.

This work will be paid for at the contract unit price per EACH for FIRE HYDRANTS TO BE REMOVED, which price shall include all materials and labor necessary for the work.

WATER DISTRIBUTION

All other water work noted in the plans and not otherwise covered by a separate special provision shall be completed in accordance with the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, and the Village of Villa Park “Water Distribution” standard as published by the village and available on the village website.

Items shall be paid for as EACH which shall include all materials, labor, equipment and incidentals for a complete installation.

FENCE REMOVAL AND REPLACEMENT

This work shall consist of the removal, salvaging and re-erection of the fence and gates shown on the plans.

The replaced fence and gates shall be installed in conformance with Section 664 of the Standard Specifications, if applicable.

The Contractor shall remove the fence including any concrete base for posts, if necessary, below the proposed grade line, exercising care so as not to damage the fabric, wood, posts or accessories that will be used in the restoration of the fence at its replaced location.

Locations of fence removal and replacement have been included in the plans where it is estimated that the fence should be removed to aid in the Contractor's operations. These locations are advisory only, and the Contractor is under no commitment to remove these fences should he so desire.

This work will be paid for at the contract unit price per FOOT for FENCE REMOVAL AND REPLACEMENT which price shall include the removal of the existing fence, the replacement of posts, fastenings, rails, fabric and/or panels damaged or deemed unsalvageable.

ADJUSTMENTS AND RECONSTRUCTIONS
Effective: March 15, 2011

Revise the first paragraph of Article 602.04 to read:

"**602.04 Concrete.** Cast-in-place concrete for structures shall be constructed of Class SI concrete according to the applicable portions of Section 503. Cast-in-place concrete for pavement patching around adjustments and reconstructions shall be constructed of Class PP-1 concrete, unless otherwise noted in the plans, according to the applicable portions of Section 1020."

Revise the third, fourth and fifth sentences of the second paragraph of Article 602.11(c) to read:

"Castings shall be set to the finished pavement elevation so that no subsequent adjustment will be necessary, and the space around the casting shall be filled with Class PP-1 concrete, unless otherwise noted in the plans, to the elevation of the surface of the base course or binder course. HMA surface or binder course material shall not be allowed. The pavement may be opened to traffic according to Article 701.17(e)(3)b."

Revise Article 603.05 to read:

"**603.05 Replacement of Existing Flexible Pavement.** After the castings have been adjusted, the surrounding space shall be filled with Class PP-1 concrete, unless otherwise noted in the plans, to the elevation of the surface of the base course or binder course. HMA surface or binder course material shall not be allowed. The pavement may be opened to traffic according to Article 701.17(e)(3)b."

Revise Article 603.06 to read:

"**603.06 Replacement of Existing Rigid Pavement.** After the castings have been adjusted, the pavement and HMA that was removed, shall be replaced with Class PP-1 concrete, unless otherwise noted in the plans, not less than 9 in. (225 mm) thick. The pavement may be opened to traffic according to Article 701.17(e)(3)b.

The surface of the Class PP concrete shall be constructed flush with the adjacent surface."

Revise the first sentence of Article 603.07 to read:

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

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

SPECIAL PROVISION FOR BIDDING REQUIREMENTS AND CONDITIONS FOR CONTRACT PROPOSALS

Effective: January 1, 2001
Revised: January 1, 2014

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

Replace Article 102.01 of the Standard Specifications with the following:

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

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

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

(a) Lack of competency and adequate machinery, plant, and other equipment, as revealed by the financial statement and experience questionnaires required in the prequalification procedures.
(b) Uncompleted work which, in the judgment of the Awarding Authority, might hinder or prevent the prompt completion of additional work awarded.
(c) False information provided on a bidder's "Affidavit of Availability".
(d) Failure to pay, or satisfactorily settle, all bills due for labor and material on former contracts in force at the time of issuance of proposal forms.
(e) Failure to comply with any prequalification regulations of the Department.
(f) Default under previous contracts.
(g) Unsatisfactory performance record as shown by past work for the Awarding Authority, judged from the standpoint of workmanship and progress.
(h) When the Contractor is suspended from eligibility to bid at a public letting where the contract is awarded by, or requires approval of, the Department.
(i) When any agent, servant, or employee of the prospective bidder currently serves as a member, employee, or agent of a governmental body that is financially involved in the proposal work.

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

Interpretation of Quantities in the Bid Schedule. The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased, or omitted as hereinafter provided.

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

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

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

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

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

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

(a) More than one proposal for the same work from an individual, firm, partnership, or corporation under the same name or different names.
(b) Evidence of collusion among bidders.
(c) Unbalanced proposals in which the bid prices for some items are, in the judgment of the Awarding Authority, out of proportion to the bid prices for other items.
(d) If the proposal does not contain a unit price for each pay item listed, except in the case of authorized alternate pay items or lump sum pay items.
(e) If the proposal form is other than that furnished by the Awarding Authority; or if the form is altered or any part thereof is detached.
(f) If there are omissions, erasures, alterations, unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.
(g) If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
(h) If the proposal is not accompanied by the proper proposal guaranty.
(i) If the proposal is prepared with other than ink or typewriter, or otherwise fails to meet the requirements of the above "Preparation of Proposal" section.

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

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

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

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

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

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

Delivery of Proposals. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Authority and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the Notice to Bidders. Proposals received after the time specified will be returned to the bidder unopened.

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

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

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

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

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

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

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

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

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

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

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

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

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

SPECIAL PROVISION
FOR
COOPERATION WITH UTILITIES

Effective: January 1, 1999
Revised: January 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.

Replace Article 105.07 of the Standard Specifications with the following:

"**105.07 Cooperation with Utilities.** The adjustment of utilities consists of the relocation, removal, replacement, rearrangements, reconstruction, improvement, disconnection, connection, shifting, new installation or altering of an existing utility facility in any manner.

When the plans or special provisions include information pertaining to the location of underground utility facilities, such information represents only the opinion of the Department as to the location of such utilities and is only included for the convenience of the bidder. The Department assumes no responsibility in respect to the sufficiency or the accuracy of the information shown on the plans relative to the location of the underground utility facilities.

Utilities which are to be adjusted shall be adjusted by the utility owner or the owner's representative or by the Contractor as a contract item. Generally, arrangements for adjusting existing utilities will be made by the Department prior to project construction; however, utilities will not necessarily be adjusted in advance of project construction and, in some cases, utilities will not be removed from the proposed construction limits. When utility adjustments must be performed in conjunction with construction, the utility adjustment work will be shown on the plans and/or covered by Special Provisions.

When the Contractor discovers a utility has not been adjusted by the owner or the owner's representative as indicated in the contract documents, or the utility is not shown on the plans or described in the Special Provisions as to be adjusted in conjunction with construction, the Contractor shall not interfere with said utility, and shall take proper precautions to prevent damage or interruption of the utility and shall promptly notify the Engineer of the nature and location of said utility.

All necessary adjustments, as determined by the Engineer, of utilities not shown on the plans or not identified by markers, will be made at no cost to the Contractor except traffic structures, light poles, etc., that are normally located within the proposed construction limits as hereinafter defined will not be adjusted unless required by the proposed improvement.

(a) Limits of Proposed Construction for Utilities Paralleling the Roadway. For the purpose of this Article, limits of proposed construction for utilities extending in the same longitudinal direction as the roadway, shall be defined as follows:

(1) The horizontal limits shall be a vertical plane, outside of, parallel to, and 600 mm (2 ft) distant at right angles from the plan or revised slope limits.

In cases where the limits of excavation for structures are not shown on the plans, the horizontal limits shall be a vertical plane 1.2 m (4 ft) outside the edges of structure footings or the structure where no footings are required.

(2) The upper vertical limits shall be the regulations governing the roadbed clearance for the specific utility involved.

(3) The lower vertical limits shall be the top of the utility at the depth below the proposed grade as prescribed by the governing agency or the limits of excavation, whichever is less.

(b) Limits of Proposed Construction for Utilities Crossing the Roadway. For the purpose of this Article, limits of proposed construction for utilities crossing the roadway in a generally transverse direction shall be defined as follows:

(1) Utilities crossing excavations for structures that are normally made by trenching such as sewers, underdrains, etc. and all minor structures such as manholes, inlets, foundations for signs, foundations for traffic signals, etc., the limits shall be the space to be occupied by the proposed permanent construction unless otherwise required by the regulations governing the specific utility involved.

(2) For utilities crossing the proposed site of major structures such as bridges, sign trusses, etc., the limits shall be as defined above for utilities extending in the same general direction as the roadway.

The Contractor may make arrangements for adjustment of utilities outside of the limits of proposed construction provided the Contractor furnishes the Department with a signed agreement with the utility owner covering the adjustments to be made. The cost of any adjustments made outside the limits of proposed construction shall be the responsibility of the Contractor unless otherwise provided.

The Contractor shall request all utility owners to field locate their facilities according to Article 107.31. The Engineer may make the request for location from the utility after receipt of notice from the Contractor. On request, the Engineer will make an inspection to verify that the utility company has field located its facilities, but will not assume responsibility for the accuracy of such work. The Contractor shall be responsible for maintaining the excavations or markers provided by the utility owners. This field location procedure may be waived if the utility owner has stated in writing to the Department it is satisfied the construction plans are sufficiently accurate. If the utility owner does not submit such statement to the Department, and they do not field locate their facilities in both horizontal and vertical alignment, the Engineer will authorize the Contractor in writing to proceed to locate the facilities in the most economical and reasonable manner, subject to the approval of the Engineer, and be paid according to Article 109.04.

The Contractor shall coordinate with any planned utility adjustment or new installation and the Contractor shall take all precautions to prevent disturbance or damage to utility facilities. Any failure on the part of the utility owner, or their representative, to proceed with any planned utility adjustment or new installation shall be reported promptly by the Contractor to the Engineer orally and in writing.

The Contractor shall take all necessary precautions for the protection of the utility facilities. The Contractor shall be responsible for any damage or destruction of utility facilities resulting from neglect, misconduct, or omission in the Contractor's manner or method of execution or nonexecution of the work, or caused by defective work or the use of unsatisfactory materials. Whenever any damage or destruction of a utility facility occurs as a result of work performed by the Contractor, the utility company will be immediately notified. The utility company will make arrangements to restore such facility to a condition equal to that existing before any such damage or destruction was done.

It is understood and agreed that the Contractor has considered in the bid all of the permanent and temporary utilities in their present and/or adjusted positions.

No additional compensation will be allowed for any delays, inconvenience, or damage sustained by the Contractor due to any interference from the said utility facilities or the operation of relocating the said utility facilities.

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

SPECIAL PROVISION
FOR
INSURANCE

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

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

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

Village of Villa Park

Robinson Engineering, Ltd.

Clark Dietz, Inc.

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

State of Illinois
DEPARTMENT OF TRANSPORTATION
Bureau of Local Roads & Streets

SPECIAL PROVISION FOR WAGES OF EMPLOYEES ON PUBLIC WORKS

Effective: January 1, 1999
Revised: January 1, 2014

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

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

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

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

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

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

SPECIAL PROVISION FOR EQUIPMENT RENTAL RATES

Effective: January 1, 2012

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.

Replace Article 109.04(b)(4) with the following:

"(4) Equipment. For any machinery or special equipment (other than small tools) the use of which has been authorized by the Engineer, the Contractor will be paid according to the latest revision of “SCHEDULE OF AVERAGE ANNUAL EQUIPMENT OWNERSHIP EXPENSE” and latest index factor as issued by the Illinois Department of Transportation. The equipment should be of a type and size reasonably required to complete the extra work.”

Du Page County Prevailing Wage for July 2015

(See explanation of column headings at bottom of wages)

Trade Name	RG	TYP	C	Base	FRMAN	M-F>8	OSA	OSH	H/W	Pensn	Vac	Trng
ASBESTOS ABT-GEN		ALL		39.400	39.950	1.5	1.5	2.0	13.98	10.72	0.000	0.500
ASBESTOS ABT-MEC		BLD		36.340	38.840	1.5	1.5	2.0	11.47	10.96	0.000	0.720
BOILERMAKER		BLD		47.070	51.300	2.0	2.0	2.0	6.970	18.13	0.000	0.400
BRICK MASON		BLD		43.780	48.160	1.5	1.5	2.0	10.05	14.43	0.000	1.030
CARPENTER		ALL		44.350	46.350	1.5	1.5	2.0	11.79	16.39	0.000	0.630
CEMENT MASON		ALL		43.750	45.750	2.0	1.5	2.0	13.05	14.45	0.000	0.480
CERAMIC TILE FNSHER		BLD		36.810	0.000	1.5	1.5	2.0	10.55	9.230	0.000	0.770
COMMUNICATION TECH		BLD		32.650	34.750	1.5	1.5	2.0	9.550	15.16	1.250	0.610
ELECTRIC PWR EQMT OP		ALL		37.890	51.480	1.5	1.5	2.0	5.000	11.75	0.000	0.380
ELECTRIC PWR EQMT OP		HWY		39.220	53.290	1.5	1.5	2.0	5.000	12.17	0.000	0.390
ELECTRIC PWR GRNDMAN		ALL		29.300	51.480	1.5	1.5	2.0	5.000	9.090	0.000	0.290
ELECTRIC PWR GRNDMAN		HWY		30.330	53.290	1.5	1.5	2.0	5.000	9.400	0.000	0.300
ELECTRIC PWR LINEMAN		ALL		45.360	51.480	1.5	1.5	2.0	5.000	14.06	0.000	0.450
ELECTRIC PWR LINEMAN		HWY		46.950	53.290	1.5	1.5	2.0	5.000	14.56	0.000	0.470
ELECTRIC PWR TRK DRV		ALL		30.340	51.480	1.5	1.5	2.0	5.000	9.400	0.000	0.300
ELECTRIC PWR TRK DRV		HWY		31.400	53.290	1.5	1.5	2.0	5.000	9.730	0.000	0.310
ELECTRICIAN		BLD		38.160	41.980	1.5	1.5	2.0	9.550	18.29	4.680	0.680
ELEVATOR CONSTRUCTOR		BLD		50.800	57.150	2.0	2.0	2.0	13.57	14.21	4.060	0.600
FENCE ERECTOR	NE	ALL		37.340	39.340	1.5	1.5	2.0	13.05	12.06	0.000	0.300
FENCE ERECTOR	W	ALL		45.060	48.660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
GLAZIER		BLD		40.500	42.000	1.5	2.0	2.0	13.14	16.99	0.000	0.940
HT/FROST INSULATOR		BLD		48.450	50.950	1.5	1.5	2.0	11.47	12.16	0.000	0.720
IRON WORKER	E	ALL		44.200	46.200	2.0	2.0	2.0	13.65	21.14	0.000	0.350
IRON WORKER	W	ALL		45.060	48.660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
LABORER		ALL		39.200	39.950	1.5	1.5	2.0	13.98	10.72	0.000	0.500
LATHER		ALL		44.350	46.350	1.5	1.5	2.0	11.79	16.39	0.000	0.630
MACHINIST		BLD		45.350	47.850	1.5	1.5	2.0	7.260	8.950	1.850	0.000
MARBLE FINISHERS		ALL		32.400	34.320	1.5	1.5	2.0	10.05	13.75	0.000	0.620
MARBLE MASON		BLD		43.030	47.330	1.5	1.5	2.0	10.05	14.10	0.000	0.780
MATERIAL TESTER I		ALL		29.200	0.000	1.5	1.5	2.0	13.98	10.72	0.000	0.500
MATERIALS TESTER II		ALL		34.200	0.000	1.5	1.5	2.0	13.98	10.72	0.000	0.500
MILLWRIGHT		ALL		44.350	46.350	1.5	1.5	2.0	11.79	16.39	0.000	0.630
OPERATING ENGINEER		BLD	1	48.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD	2	46.800	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD	3	44.250	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD	4	42.500	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD	5	51.850	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD	6	49.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD	7	51.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		FLT		36.000	36.000	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		HWY	1	46.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY	2	45.750	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY	3	43.700	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY	4	42.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY	5	41.100	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY	6	49.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY	7	47.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
ORNAMNTL IRON WORKER	E	ALL		45.000	47.500	2.0	2.0	2.0	13.55	17.94	0.000	0.650
ORNAMNTL IRON WORKER	W	ALL		45.060	48.660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
PAINTER		ALL		41.730	43.730	1.5	1.5	1.5	10.30	8.200	0.000	1.350
PAINTER SIGNS		BLD		33.920	38.090	1.5	1.5	1.5	2.600	2.710	0.000	0.000
PILEDRIVER		ALL		44.350	46.350	1.5	1.5	2.0	11.79	16.39	0.000	0.630
PIPEFITTER		BLD		46.000	49.000	1.5	1.5	2.0	9.000	15.85	0.000	1.780
PLASTERER		BLD		43.430	46.040	1.5	1.5	2.0	10.05	14.43	0.000	1.020
PLUMBER		BLD		46.650	48.650	1.5	1.5	2.0	13.18	11.46	0.000	0.880

ROOFER		BLD	41.000	44.000	1.5	1.5	2.0	8.280	10.54	0.000	0.530
SHEETMETAL WORKER		BLD	44.720	46.720	1.5	1.5	2.0	10.65	13.31	0.000	0.820
SPRINKLER FITTER		BLD	49.200	51.200	1.5	1.5	2.0	11.75	9.650	0.000	0.550
STEEL ERECTOR	E	ALL	42.070	44.070	2.0	2.0	2.0	13.45	19.59	0.000	0.350
STEEL ERECTOR	W	ALL	45.060	48.660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
STONE MASON		BLD	43.780	48.160	1.5	1.5	2.0	10.05	14.43	0.000	1.030
~~SURVEY WORKER~~		->NOT IN EFFECT									
TERRAZZO FINISHER		BLD	38.040	0.000	1.5	1.5	2.0	10.55	11.22	0.000	0.720
TERRAZZO MASON		BLD	41.880	44.880	1.5	1.5	2.0	10.55	12.51	0.000	0.940
TILE MASON		BLD	43.840	47.840	1.5	1.5	2.0	10.55	11.40	0.000	0.990
TRAFFIC SAFETY WRKR		HWY	32.750	34.350	1.5	1.5	2.0	6.550	6.450	0.000	0.500
TRUCK DRIVER		ALL 1	35.920	36.120	1.5	1.5	2.0	8.280	8.760	0.000	0.150
TRUCK DRIVER		ALL 2	32.700	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.150
TRUCK DRIVER		ALL 3	32.900	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.150
TRUCK DRIVER		ALL 4	33.100	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.150
TUCKPOINTER		BLD	42.620	43.620	1.5	1.5	2.0	10.05	13.34	0.000	0.670

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

Explanations

DUPAGE COUNTY

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

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

EXPLANATION OF CLASSES

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

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

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

CERAMIC TILE FINISHER

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

including, but not be limited to, all soap compounds, paper products, tapes, and all polyethylene coverings, plywood, masonite, cardboard, and any new type of products that may be used to protect tile installations, Blastrac equipment, and all floor scarifying equipment used in preparing floors to receive tile. The clean up and removal of all waste and materials. All demolition of existing tile floors and walls to be re-tiled.

COMMUNICATIONS TECHNICIAN

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

MARBLE FINISHER

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

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

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

OPERATING ENGINEER - BUILDING

Class 1. Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson Attachment; Batch Plant; Benoto (requires Two Engineers); Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant;

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

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

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

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

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO or other similar type machines: ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower Cranes of all types: Creter Crane: Spider Crane; Crusher, Stone, etc.;

Derricks, All; Derrick Boats; Derricks, Traveling; Dredges; Elevators, Outside type Rack & Pinion and Similar Machines; Formless Curb and Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Truck Mounted; Hoists, One, Two and Three Drum; Heavy Duty Self-Propelled Transporter or Prime Mover; Hydraulic Backhoes; Backhoes with shear attachments up to 40' of boom reach; Lubrication Technician; Manipulators; Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Snow Melters; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Operation of Tieback Machine; Tractor Drawn Belt Loader; Tractor Drawn Belt Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Traffic Barrier Transfer Machine; Trenching; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole Drills (Tunnel Shaft); Underground Boring and/or Mining Machines 5 ft. in diameter and over tunnel, etc; Underground Boring and/or Mining Machines under 5 ft. in diameter; Wheel Excavator; Widener (APSCO).

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

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

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

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

Class 6. Field Mechanics and Field Welders

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

OPERATING ENGINEER - FLOATING

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

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

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

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

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

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

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

TERRAZZO FINISHER

The handling of sand, cement, marble chips, and all other materials that may be used by the Mosaic Terrazzo Mechanic, and the mixing, grinding, grouting, cleaning and sealing of all Marble, Mosaic, and

Terrazzo work, floors, base, stairs, and wainscoting by hand or machine, and in addition, assisting and aiding Marble, Masonic, and Terrazzo Mechanics.

Other Classifications of Work:

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

LANDSCAPING

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

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

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

BDE SPECIAL PROVISIONS
For the April 24 and June 12, 2015 Lettings

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

	File Name	#		Special Provision Title	Effective	Revised
	80240	1		Above Grade Inlet Protection	July 1, 2009	Jan. 1, 2012
	80099	2		Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2014
	80274	3		Aggregate Subgrade Improvement	April 1, 2012	Jan. 1, 2013
	80192	4		Automated Flagger Assistance Device	Jan. 1, 2008	
	80173	5		Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2013
	80241	6		Bridge Demolition Debris	July 1, 2009	
	5026I	7		Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	5048I	8		Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	5049I	9		Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	5053I	10		Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
	80310	11		Coated Galvanized Steel Conduit	Jan. 1, 2013	Jan. 1, 2015
	80341	12		Coilable Nonmetallic Conduit	Aug. 1, 2014	Jan. 1, 2015
	80198	13		Completion Date (via calendar days)	April 1, 2008	
	80199	14		Completion Date (via calendar days) Plus Working Days	April 1, 2008	
*	80293	15		Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	April 1, 2015
	80294	16		Concrete Box Culverts with Skews ≤ 30 Degrees Regardless of Design Fill and Skews > 30 Degrees with Design Fills > 5 Feet	April 1, 2012	April 1, 2014
	80311	17		Concrete End Sections for Pipe Culverts	Jan. 1, 2013	
	80334	18	✓	Concrete Gutter, Curb, Median, and Paved Ditch	April 1, 2014	Aug. 1, 2014
	80277	19		Concrete Mix Design – Department Provided	Jan. 1, 2012	Jan. 1, 2014
	80261	20	✓	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
	80335	21		Contract Claims	April 1, 2014	
*	80029	22		Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Jan. 2, 2015
*	80358	23		Equal Employment Opportunity	April 1, 2015	
	80265	24	✓	Friction Aggregate	Jan. 1, 2011	Nov. 1, 2014
	80229	25		Fuel Cost Adjustment	April 1, 2009	July 1, 2009
	80329	26		Glare Screen	Jan. 1, 2014	
	80304	27		Grooving for Recessed Pavement Markings	Nov. 1, 2012	Aug. 1, 2014
	80246	28	✓	Hot-Mix Asphalt – Density Testing of Longitudinal Joints	Jan. 1, 2010	April 1, 2012
	80322	29	✓	Hot-Mix Asphalt – Mixture Design Composition and Volumetric Requirements	Nov. 1, 2013	Nov. 1, 2014
	80323	30	✓	Hot-Mix Asphalt – Mixture Design Verification and Production	Nov. 1, 2013	Nov. 1, 2014
*	80347	31		Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Nov. 1, 2014	April 1, 2015
	80348	32	✓	Hot-Mix Asphalt – Prime Coat	Nov. 1, 2014	
	80315	33		Insertion Lining of Culverts	Jan. 1, 2013	Nov. 1, 2013
	80351	34		Light Tower	Jan. 1, 2015	
	80336	35		Longitudinal Joint and Crack Patching	April 1, 2014	
*	80324	36		LRFD Pipe Culvert Burial Tables	Nov. 1, 2013	April 1, 2015
*	80325	37		LRFD Storm Sewer Burial Tables	Nov. 1, 2013	April 1, 2015
	80045	38		Material Transfer Device	June 15, 1999	Aug. 1, 2014
	80342	39		Mechanical Side Tie Bar Inserter	Aug. 1, 2014	Jan. 1, 2015
	80165	40		Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
	80337	41		Paved Shoulder Removal	April 1, 2014	
	80349	42		Pavement Marking Blackout Tape	Nov. 1, 2014	
	80298	43		Pavement Marking Tape Type IV	April 1, 2012	

	File Name	#		Special Provision Title	Effective	Revised
	80254	44		Pavement Patching	Jan. 1, 2010	
	80352	45		Pavement Striping - Symbols	Jan. 1, 2015	
*	80359	46		Portland Cement Concrete Bridge Deck Curing	April 1, 2015	
*	80353	47		Portland Cement Concrete Inlay or Overlay	Jan. 1, 2015	April 1, 2015
	80338	48		Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	April 1, 2014	
	80343	49		Precast Concrete Handhole	Aug. 1, 2014	
	80300	50		Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	
	80328	51		Progress Payments	Nov. 2, 2013	
	3426I	52		Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
	80157	53		Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
	80306	54		Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	April 1, 2014
	80350	55		Retroreflective Sheeting for Highway Signs	Nov. 1, 2014	
	80327	56		Reinforcement Bars	Nov. 1, 2013	
	80344	57		Rigid Metal Conduit	Aug. 1, 2014	
*	80354	58	✓	Sidewalk, Corner, or Crosswalk Closure	Jan. 1, 2015	April 1, 2015
	80340	59		Speed Display Trailer	April 2, 2014	
	80127	60		Steel Cost Adjustment	April 2, 2004	April 1, 2009
	80317	61		Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	
	80355	62		Temporary Concrete Barrier	Jan. 1, 2015	
	80301	63		Tracking the Use of Pesticides	Aug. 1, 2012	
	80356	64		Traffic Barrier Terminals Type 6 or 6B	Jan. 1, 2015	
	20338	65		Training Special Provisions	Oct. 15, 1975	
	80318	66		Traversable Pipe Grate	Jan. 1, 2013	April 1, 2014
*	80345	67		Underpass Luminaire	Aug. 1, 2014	April 1, 2015
	80357	68		Urban Half Road Closure with Mountable Median	Jan. 1, 2015	
*	80346	69		Waterway Obstruction Warning Luminaire	Aug. 1, 2014	April 1, 2015
	80288	70		Warm Mix Asphalt	Jan. 1, 2012	Nov. 1, 2014
	80302	71		Weekly DBE Trucking Reports	June 2, 2012	
	80289	72		Wet Reflective Thermoplastic Pavement Marking	Jan. 1, 2012	
	80071	73		Working Days	Jan. 1, 2002	

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

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

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

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

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

Add the following to Article 606.02 of the Standard Specifications:

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

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

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

Add the following to Section 1050 of the Standard Specifications:

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

80334

CONSTRUCTION AIR QUALITY – DIESEL RETROFIT (BDE)

Effective: June 1, 2010
Revised: November 1, 2014

The reduction of emissions of particulate matter (PM) for off-road equipment shall be accomplished by installing retrofit emission control devices. The term "equipment" refers to diesel fuel powered devices rated at 50 hp and above, to be used on the jobsite in excess of seven calendar days over the course of the construction period on the jobsite (including rental equipment).

Contractor and subcontractor diesel powered off-road equipment assigned to the contract shall be retrofitted using the phased in approach shown below. Equipment that is of a model year older than the year given for that equipment's respective horsepower range shall be retrofitted:

Effective Dates	Horsepower Range	Model Year
June 1, 2010 1/	600-749	2002
	750 and up	2006
June 1, 2011 2/	100-299	2003
	300-599	2001
	600-749	2002
	750 and up	2006
June 1, 2012 2/	50-99	2004
	100-299	2003
	300-599	2001
	600-749	2002
	750 and up	2006

1/ Effective dates apply to Contractor diesel powered off-road equipment assigned to the contract.

2/ Effective dates apply to Contractor and subcontractor diesel powered off-road equipment assigned to the contract.

The retrofit emission control devices shall achieve a minimum PM emission reduction of 50 percent and shall be:

a) Included on the U.S. Environmental Protection Agency (USEPA) *Verified Retrofit Technology List* (http://www.epa.gov/cleandiesel/verification/verif-list.htm), or verified by the California Air Resources Board (CARB) (http://www.arb.ca.gov/diesel/verdev/vt/cvt.htm); or

b) Retrofitted with a non-verified diesel retrofit emission control device if verified retrofit emission control devices are not available for equipment proposed to be used on the project, and if the Contractor has obtained a performance certification from the retrofit

device manufacturer that the emission control device provides a minimum PM emission reduction of 50 percent.

Note: Large cranes (Crawler mounted cranes) which are responsible for critical lift operations are exempt from installing retrofit emission control devices if such devices adversely affect equipment operation.

Diesel powered off-road equipment with engine ratings of 50 hp and above, which are unable to be retrofitted with verified emission control devices or if performance certifications are not available which will achieve a minimum 50 percent PM reduction, may be granted a waiver by the Department if documentation is provided showing good faith efforts were made by the Contractor to retrofit the equipment.

Construction shall not proceed until the Contractor submits a certified list of the diesel powered off-road equipment that will be used, and as necessary, retrofitted with emission control devices. The list(s) shall include (1) the equipment number, type, make, Contractor/rental company name; and (2) the emission control devices make, model, USEPA or CARB verification number, or performance certification from the retrofit device manufacturer. Equipment reported as fitted with emissions control devices shall be made available to the Engineer for visual inspection of the device installation, prior to being used on the jobsite.

The Contractor shall submit an updated list of retrofitted off-road construction equipment as retrofitted equipment changes or comes on to the jobsite. The addition or deletion of any diesel powered equipment shall be included on the updated list.

If any diesel powered off-road equipment is found to be in non-compliance with any portion of this special provision, the Engineer will issue the Contractor a diesel retrofit deficiency deduction.

Any costs associated with retrofitting any diesel powered off-road equipment with emission control devices 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 not be grounds for a claim.

Diesel Retrofit Deficiency Deduction

When the Engineer determines that a diesel retrofit deficiency exists, 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.

The deficiency will be based on lack of diesel retrofit emissions control.

If a Contractor accumulates three diesel retrofit deficiency deductions for the same piece of equipment 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 the contract time, waiver of penalties, or be grounds for any claim.

80261

FRICTION AGGREGATE (BDE)

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

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

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

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

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

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

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

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

Use	Mixture	Aggregates Allowed
Class A	Seal or Cover	Allowed Alone or in Combination [5/]: Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete

Use	Mixture	Aggregates Allowed
HMA Low ESAL	Stabilized Subbase or Shoulders	Allowed Alone or in Combination [5/]: Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag[1/] Crushed Concrete
HMA High ESAL Low ESAL	Binder IL-19.0 or IL-19.0L SMA Binder	Allowed Alone or in Combination [5/]: Crushed Gravel Carbonate Crushed Stone[2/] Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Concrete[3/]
HMA High ESAL Low ESAL	C Surface and Leveling Binder IL-9.5 or IL-9.5L SMA Ndesign 50 Surface	Allowed Alone or in Combination [5/]: Crushed Gravel Carbonate Crushed Stone[2/] Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag[4/] Crushed Concrete[3/]
HMA High ESAL	D Surface and Leveling Binder IL-9.5 SMA Ndesign 50 Surface	Allowed Alone or in Combination [5/]: Crushed Gravel Carbonate Crushed Stone (other than Limestone)[2/] Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag[4/] Crushed Concrete[3/]
		Other Combinations Allowed: *Up to...* — *With...* 25% Limestone — Dolomite

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

Use	Mixture	Aggregates Allowed	
		Up to...	*With...*
		50% Crushed Gravel, Crushed Concrete[3/], or Dolomite[2/]	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone

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

80265

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

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

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

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

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

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

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

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

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

"Mixture Composition	Parameter	Individual Test (includes confined edges)	Unconfined Edge Joint Density Minimum
IL-4.75	Ndesign = 50	93.0 – 97.4%	91.0%
IL-9.5, IL-12.5	Ndesign ≥ 90	92.0 – 96.0%	90.0%
IL-9.5,IL-9.5L, IL-12.5	Ndesign < 90	92.5 – 97.4%	90.0%
IL-19.0, IL-25.0	Ndesign ≥ 90	93.0 – 96.0%	90.0%
IL-19.0, IL-19.0L, IL-25.0	Ndesign < 90	93.0 – 97.4%	90.0%

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

80246

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

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

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

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

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

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

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

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

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

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

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

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

Revise the table in Article 406.06(d) of the Standard Specifications to read:

"MINIMUM COMPACTED LIFT THICKNESS	
Mixture Composition	Thickness, in. (mm)
IL-4.75	3/4 (19)
IL-9.5, IL-9.5L	1 1/4 (32)
SMA-12.5	1 1/2 (38)
IL-19.0, IL-19.0L	2 1/4 (57)"

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

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

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

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

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

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

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

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

Delete Article 406.14(d) of the Standard Specifications.

Delete Article 406.14(e) of the Standard Specifications.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Revise the table in Article 1004.03(c) of the Standard Specifications to read:

"Use	Size/Application	Gradation No.
Class A-1, 2, & 3	3/8 in. (10 mm) Seal	CA 16
Class A-1	1/2 in. (13 mm) Seal	CA 15
Class A-2 & 3	Cover	CA 14
HMA High ESAL	IL-19.0 IL-9.5	CA 11 1/ CA 16 and/or CA 13 CA 16
HMA Low ESAL	IL-19.0L IL-9.5L Stabilized Subbase or Shoulders	CA 11 1/ CA 16

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

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

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

1/ Uses 19.0L binder mix.

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

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

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

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

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

Note 2. The asphalt binder shall be an SBS PG 76-28 when the SMA is used on a full-depth asphalt pavement and SBS PG 76-22 when used as an overlay.

Note 3. A stabilizing additive such as cellulose or mineral fiber shall be added to the SMA mixture according to Illinois Modified AASHTO M 325. The stabilizing additive shall meet the Fiber Quality Requirements listed in Illinois Modified AASHTO M 325. Prior to approval and use of fibers, the Contractor shall submit a notarized certification by the producer of these materials stating they meet these requirements.

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

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

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

High ESAL, MIXTURE COMPOSITION (% PASSING) 1/								
Sieve Size	IL-19.0 mm		SMA 12.5 4/		IL-9.5 mm		IL-4.75 mm	
	min	max	min	max	min	max	min	max
1 1/2 in (37.5 mm)								
1 in. (25 mm)		100						
3/4 in. (19 mm)	90	100		100				
1/2 in. (12.5 mm)	75	89	90	99		100		100
3/8 in. (9.5 mm)			50	85	90	100		100
#4 (4.75 mm)	40	60	20	40	32	69	90	100
#8 (2.36 mm)	26	42	16	24 5/	32	52 2/	70	90
#16 (1.18 mm)	15	30			10	32	50	65
#50 (300 µm)	6	15			4	15	15	30
#100 (150 µm)	4	9			3	10	10	18
#200 (75 µm)	3	6	8.0	11.0 3/	4	6	7	9
Ratio Dust/Asphalt Binder		1.0				1.0		1.0 3/

1/ Based on percent of total aggregate weight.

2/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign = 90.

3/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.

4/ The maximum percent passing the #635 (20 µm) sieve shall be ≤ 3 percent.

5/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above 24 percent."

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

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

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

"VOLUMETRIC REQUIREMENTS High ESAL				
	Voids in the Mineral Aggregate (VMA), % minimum			Voids Filled with Asphalt Binder (VFA), %
Ndesign	IL-19.0	IL-9.5	IL-4.75[1/]	
50	13.5	15.0	18.5	65 – 78 [2/]
70				65 - 75
90				

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

2/ VFA for IL-4.75 shall be 76-83 percent"

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

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

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

"(3) SMA Mixtures.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1/ Based on washed ignition oven

2/ Allowable limit below minimum design VMA requirement

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

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

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

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

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

1/ Based on washed ignition oven.

2/ Does not apply to IL-4.75.

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

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

Delete Article 1030.06(b) of the Standard Specifications.

Delete Article 1102.01(e) of the Standard Specifications.

80322

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

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

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

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

AASHTO T 324 Hamburg Wheel Test

AASHTO T 283 Tensile Strength Test

Add the following to Article 1030.04 of the Standard Specifications:

"(d) Verification Testing. High ESAL, IL-4.75, and SMA mix designs submitted for verification will be tested to ensure that the resulting mix designs will pass the required criteria for the Hamburg Wheel Test (Illinois Modified AASHTO T 324) and the Tensile Strength Test (Illinois Modified AASHTO T 283). The Department will perform a verification test on gyratory specimens compacted by the Contractor. If the mix fails the Department's verification test, the Contractor shall make necessary changes to the mix and provide passing Hamburg Wheel and tensile strength test results from a private lab. The Department will verify the passing results.

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

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

Illinois Modified AASHTO T 324 Requirements [1/]

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

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

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

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

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

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

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

The limitations between the JMF and AJMF are as follows.

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

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

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

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

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

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

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

"(b) Low ESAL Mixtures."

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

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

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

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

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

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

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

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

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

80323

HOT MIX ASPHALT – PRIME COAT (BDE)

Effective: November 1, 2014

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

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

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

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

Add the following to Article 406.03 of the Standard Specifications.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Revise Article 407.02 of the Standard Specifications to read:

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

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

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

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

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

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

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

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

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

Revise Article 1032.02 of the Standard Specifications to read:

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

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

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

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

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

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

Add the following to Article 1032.06 of the Standard Specifications.

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

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

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

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

Add the following to Article 1101 of the Standard Specifications.

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

Add the following to Article 1102 of the Standard Specifications:

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

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

80348

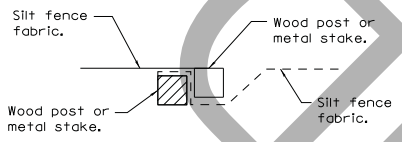
SIDEWALK, CORNER, OR CROSSWALK CLOSURE (BDE)

Effective: January 1, 2015
Revised: April 1, 2015

Revise the first sentence of Article 1106.02(m) of the Supplemental Specifications to read:

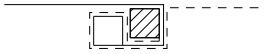
"The top and bottom panels shall have alternating white and orange stripes sloping 45 degrees on both sides."

80354



Place end-post (stake) of first silt fence adjacent to end-post (stake) of second silt fence with fabric positioned as swown.

STEP 1

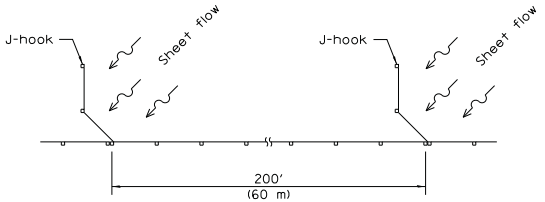


Rotate posts (stakes) together 180° clockwise and drive both posts (stakes) 18 (450) into ground.

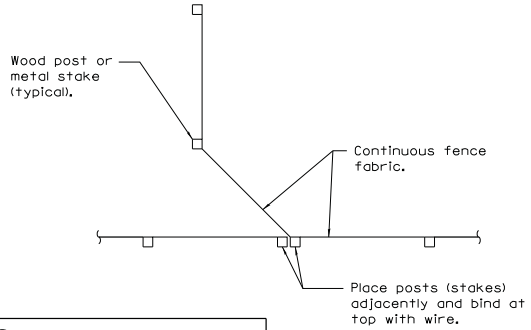
STEP 2

ATTACHING TWO SILT FILTER FENCES

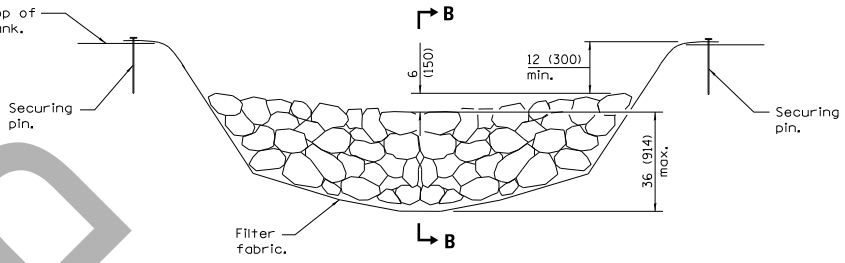
(Not applicable for J-hooks)



SILT FILTER J–HOOK PLACEMENT

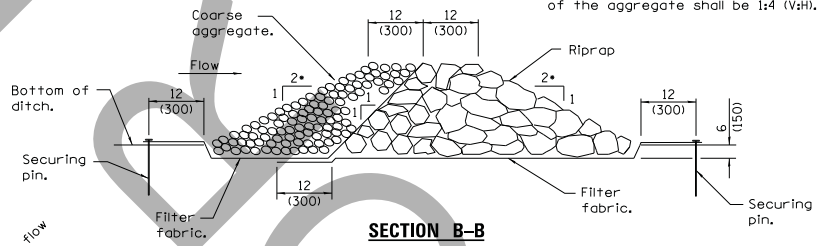


J–HOOK



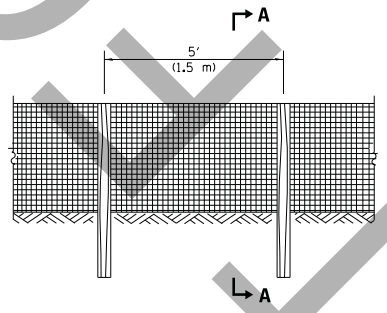
ELEVATION

- When the ditch check is within the clear zone and the road is open to traffic, the traffic approach slope of the aggregate shall be 1:4 (V:H).



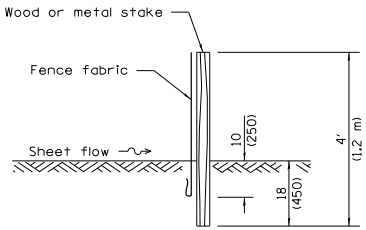
SECTION B–B

AGGREGATE DITCH CHECK

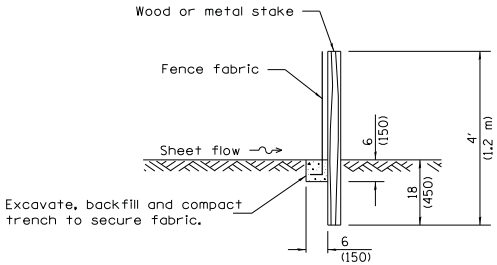


ELEVATION

SILT FILTER FENCE AS A PERIMETER EROSION BARRIER



SLICE METHOD



TRENCH METHOD

SECTION A–A

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.

Illinois Department of Transportation

PASSED January 1, 2013
Michael Brand
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2013
ENGINEER OF DESIGN AND ENVIRONMENT

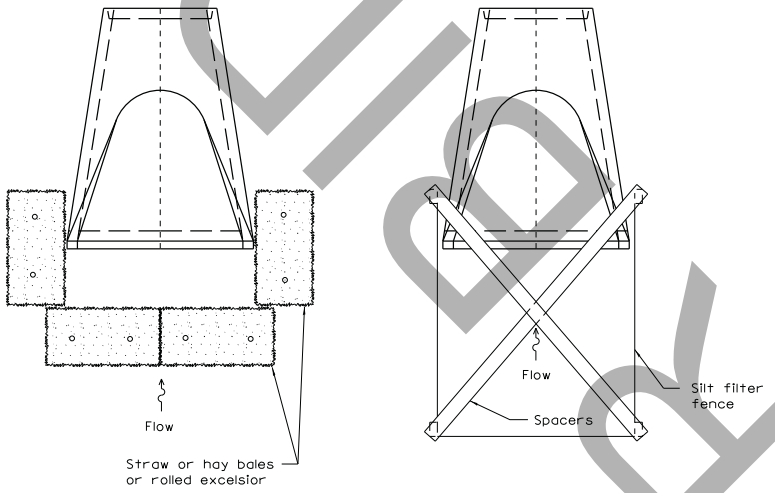
ISSUED 1-1-97

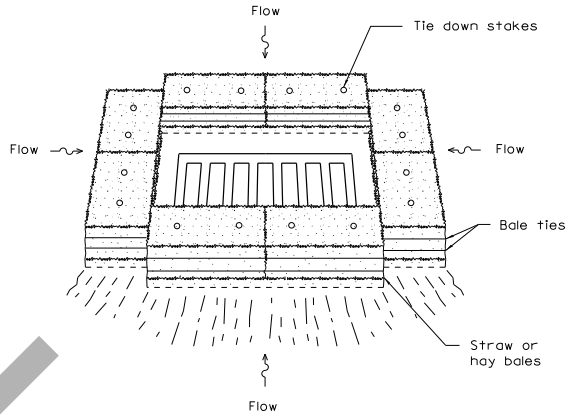
DATE	REVISIONS
1-1-13	Corrected notation for flowline (℄) on SEDIMENT BASIN ELEVATION.
1-1-12	Omitted hay/straw perimeter barrier. Added SLICE METHOD to SECTION A-A.

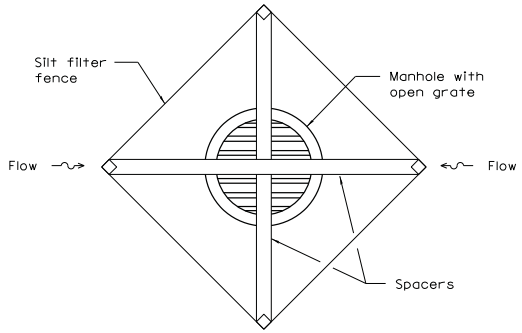
TEMPORARY EROSION CONTROL SYSTEMS

(Sheet 1 of 2)

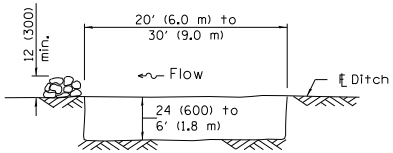
STANDARD 280001–07





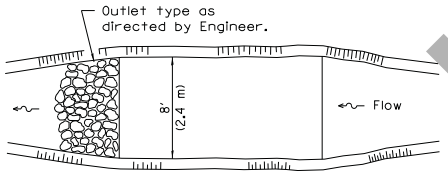


INLET AND PIPE PROTECTION



The performance of the basin will improve if put into a series.

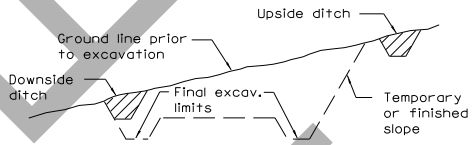
ELEVATION



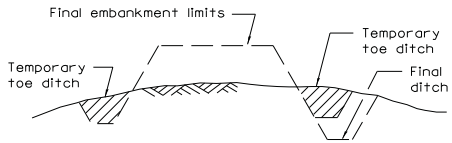
The long dimension should be parallel with the direction of the flow. Accumulated silt shall be removed anytime the basins become 75% filled.

PLAN

SEDIMENT BASIN



TYPICAL CUT CROSS-SECTION



TYPICAL FILL CROSS-SECTION

TEMPORARY DITCHES FOR CUT & FILL SECTIONS

Illinois Department of Transportation

PASSED January 1, 2013
Michael Brand
ENGINEER OF POLICY AND PROCEDURES

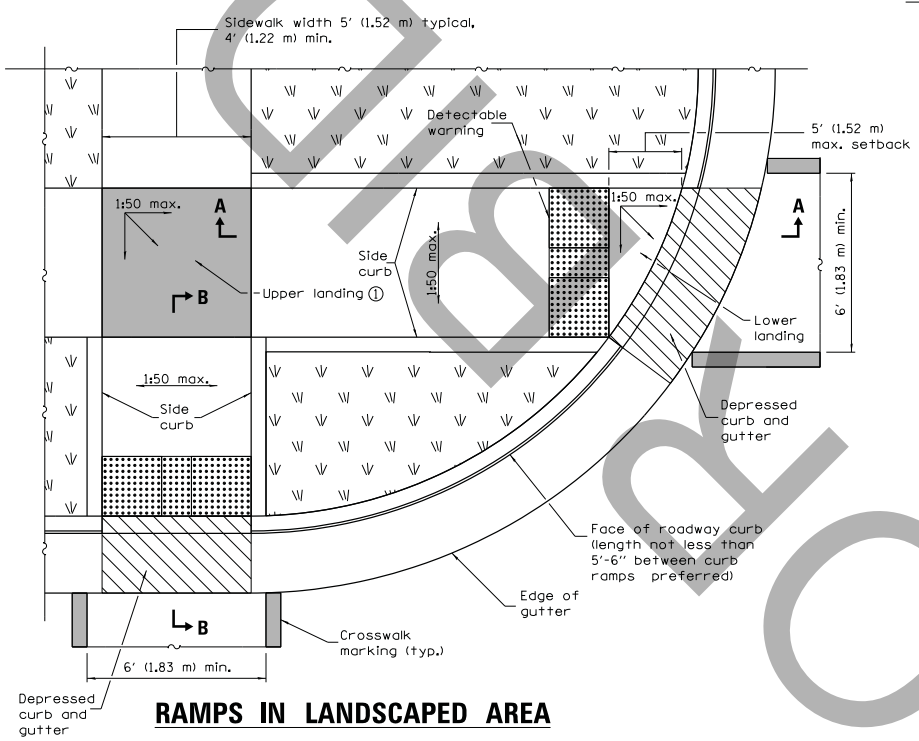
APPROVED January 1, 2013
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

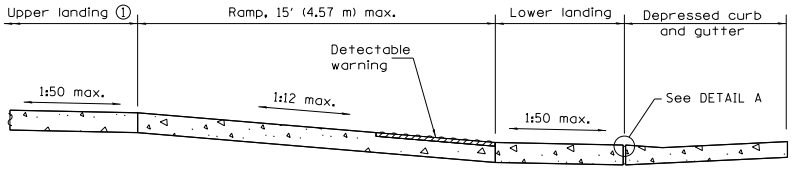
TEMPORARY EROSION CONTROL SYSTEMS

(Sheet 2 of 2)

STANDARD 280001-07

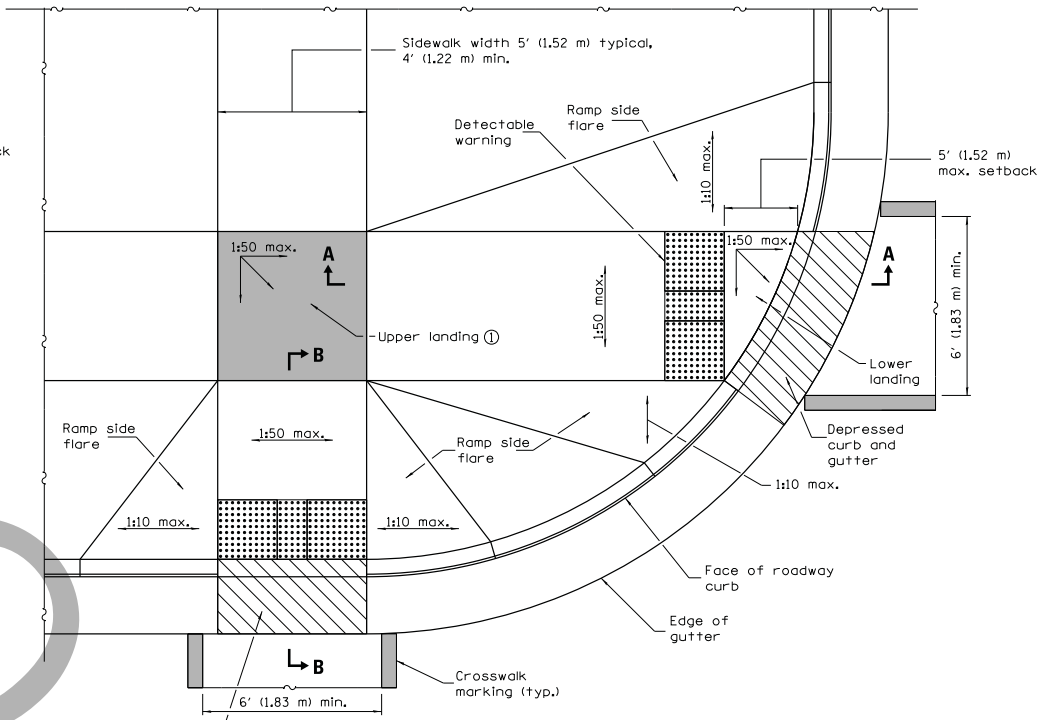


RAMPS IN LANDSCAPED AREA
SETBACK ≤ 5'

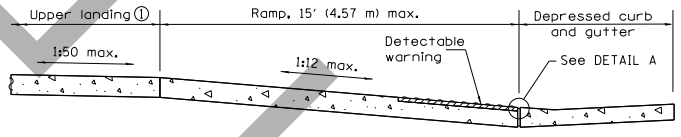


SECTION A–A

① Upper landing not required for ramp slopes flatter than 1:20.

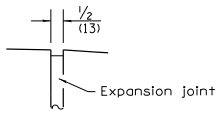


RAMPS IN PAVED AREA
SETBACK ≤ 5'

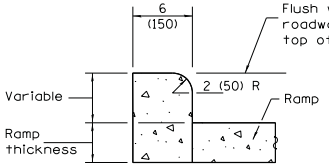


SECTION B–B

① Upper landing not required for ramp slopes flatter than 1:20.



DETAIL A



SIDE CURB DETAIL

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

Where 1:50 maximum slope is shown, 1:64 is preferred.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2013
Michael Briand
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2013
ENGINEER OF DESIGN AND ENVIRONMENT

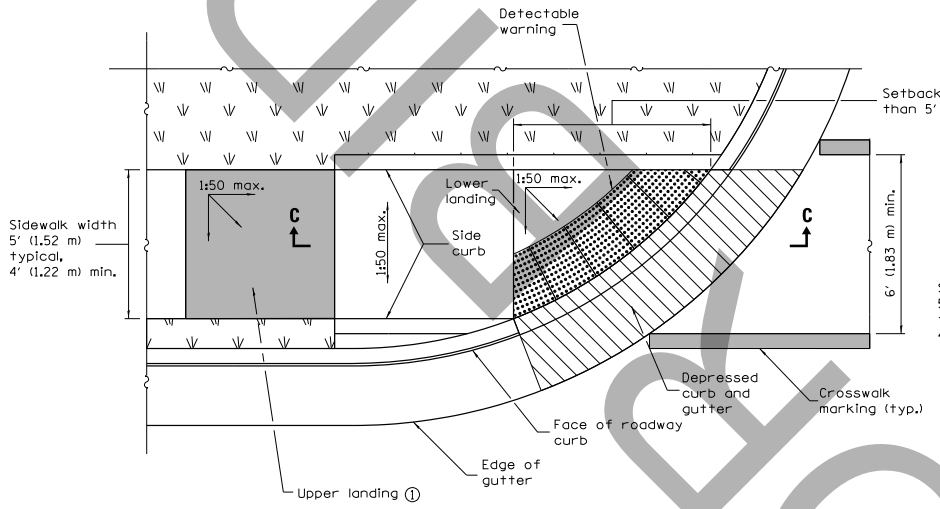
ISSUED 1-1-97

DATE	REVISIONS
1-1-13	Widened crosswalk markings
	to 6' (1.83 m) min. inside
	dimension. Rev. Gen. Notes.
1-1-12	Completely revised and
	renamed standard.

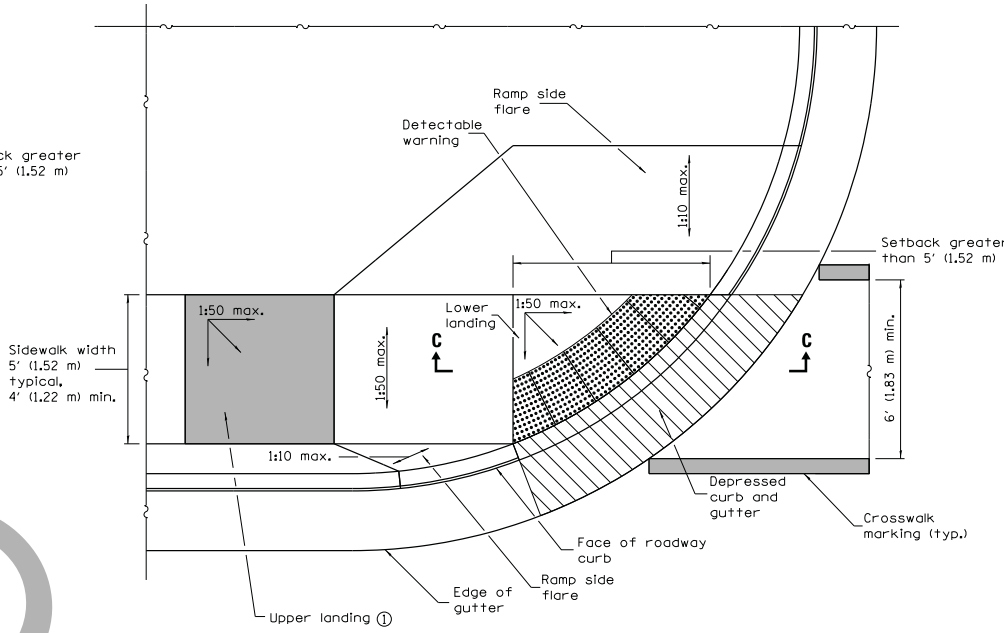
PERPENDICULAR CURB RAMPS FOR SIDEWALKS

(Sheet 1 of 2)

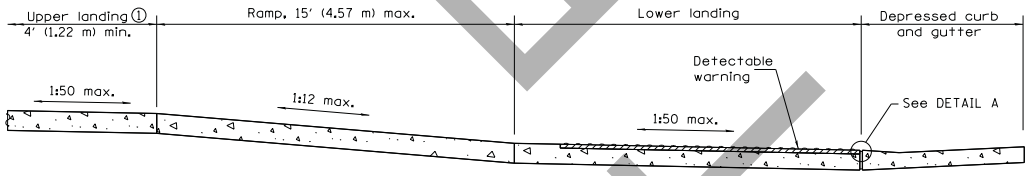
STANDARD 424001–07



RAMP IN LANDSCAPED AREA
SETBACK > 5'



RAMP IN PAVED AREA
SETBACK > 5'



SECTION C–C

① Upper landing not required for ramp slopes flatter than 1:20.

Illinois Department of Transportation

PASSED January 1, 2013
Michael Briand
ENGINEER OF POLICY AND PROCEDURES

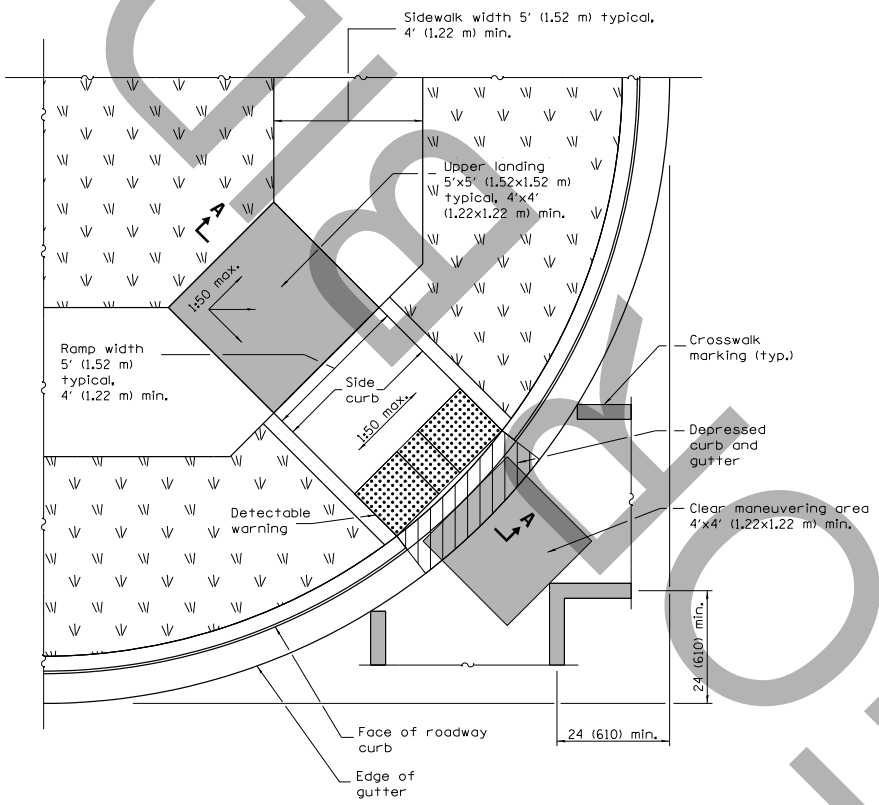
APPROVED January 1, 2013
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

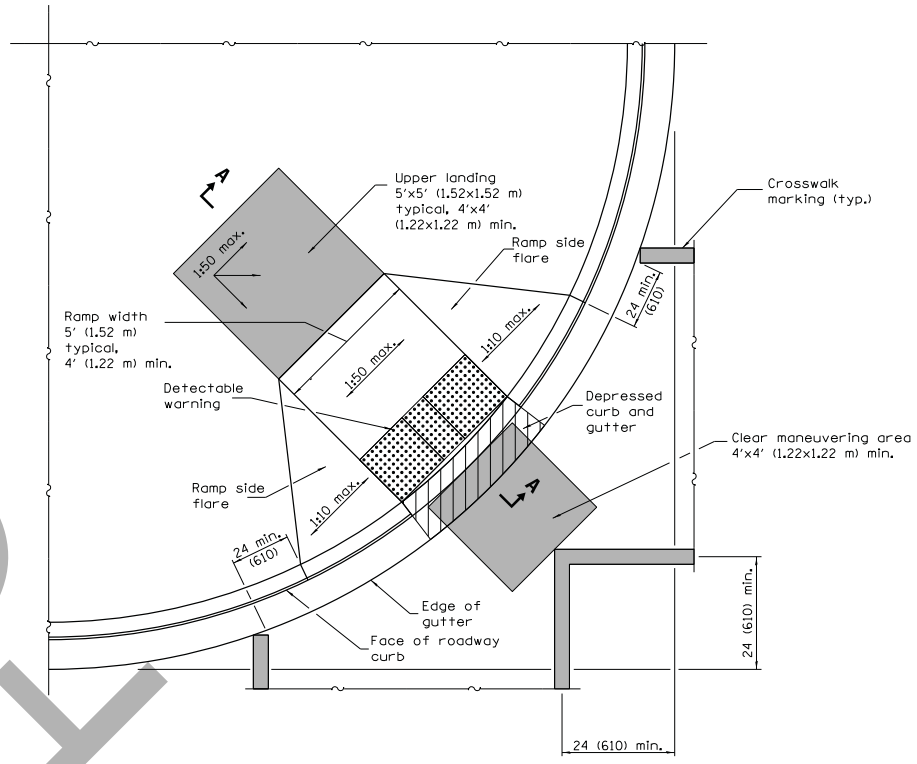
PERPENDICULAR CURB RAMPS FOR SIDEWALKS

(Sheet 2 of 2)

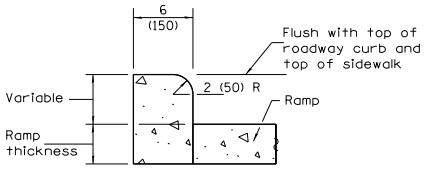
STANDARD 424001–07



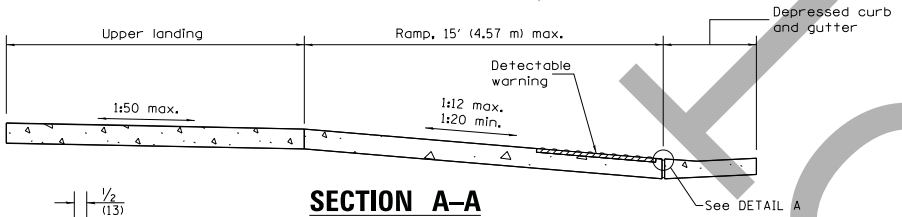
RAMP IN LANDSCAPED AREA



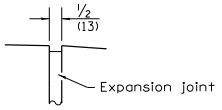
RAMP IN PAVED AREA



SIDE CURB DETAIL



SECTION A–A



DETAIL A

GENERAL NOTES

This Standard shall only be used for curb radii of 20 ft. (6.1 m) or greater.

Where 1:50 maximum slope is shown, 1:64 is preferred.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

See Standard 606001 for details of depressed curb adjacent to curb ramp.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2013
Michael Brand
ENGINEER OF POLICY AND PROCEDURES

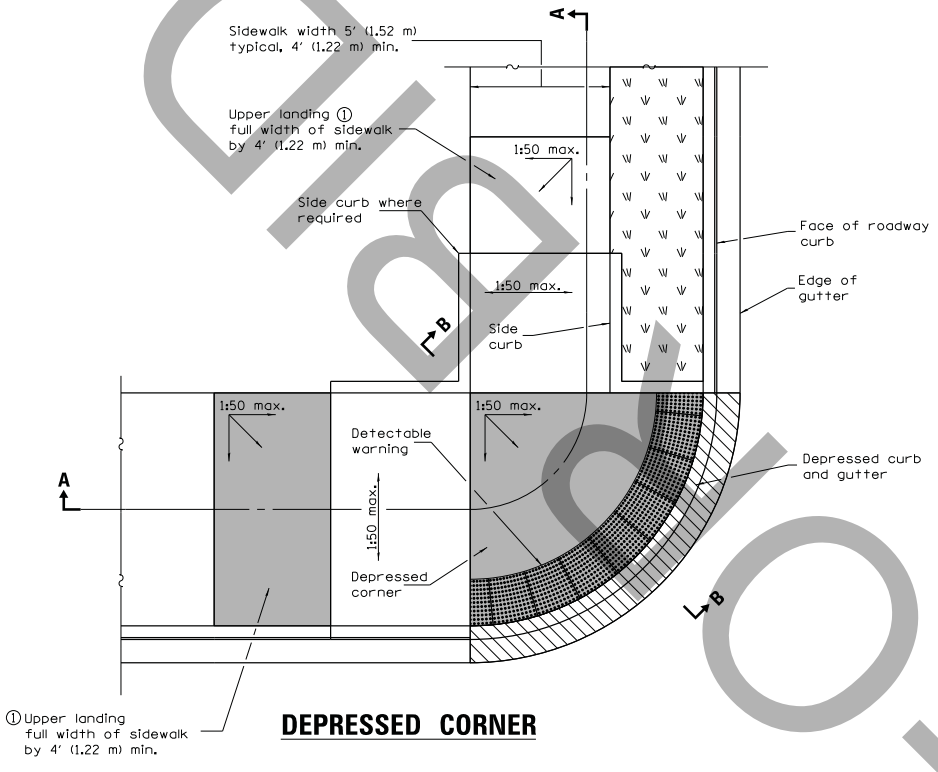
APPROVED January 1, 2013
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-12

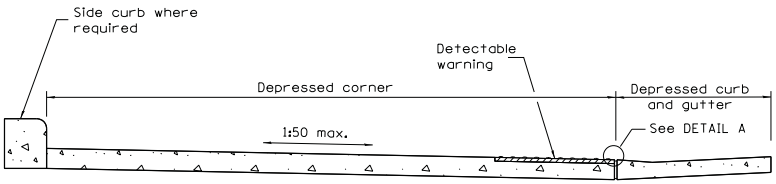
DATE	REVISIONS
1-1-13	Revised General Notes.
1-1-12	New standard.

DIAGONAL CURB RAMPS FOR SIDEWALKS

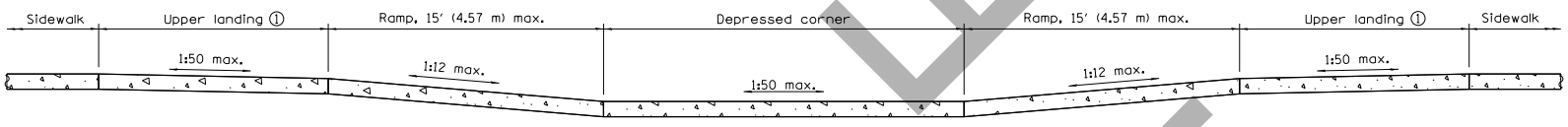
STANDARD 424006–01



DEPRESSED CORNER

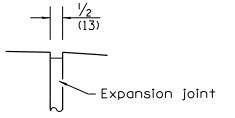


SECTION B–B

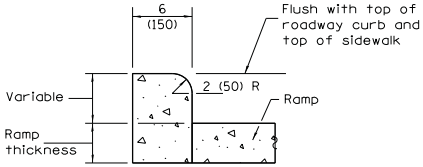


SECTION A–A

① Upper landing(s) not required for ramp slopes flatter than 1:20.



DETAIL A



SIDE CURB DETAIL

GENERAL NOTES

This standard shall only be used for curb radii of 6 ft. (1.83 m) or greater.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

Where 1:50 maximum slope is shown, 1:64 is preferred.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

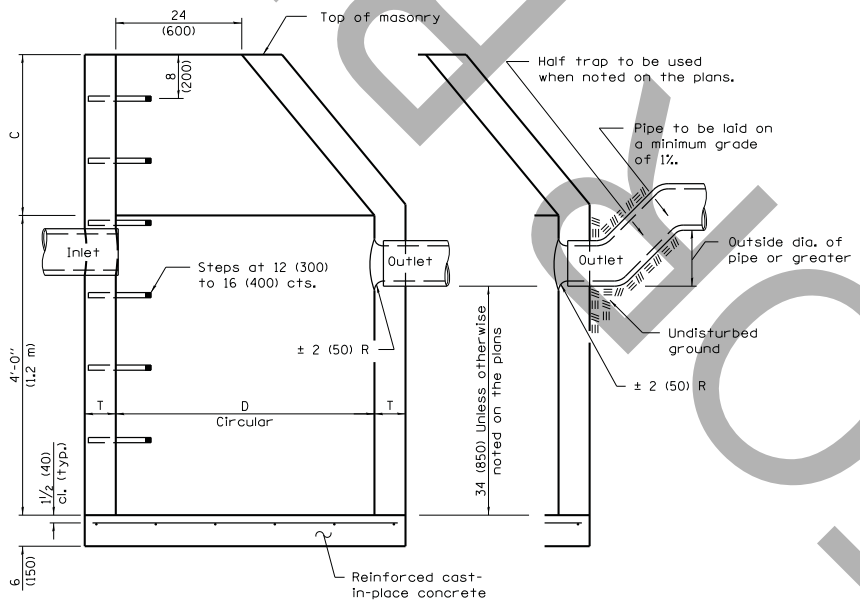
PASSED January 1, 2014
Michael Brand
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-12

DATE	REVISIONS
1-1-14	Revised sidewalk width.
	Revised gen. notes to limit curb rad. to 6' (1.83 m) min.
1-1-13	Revised General Notes.

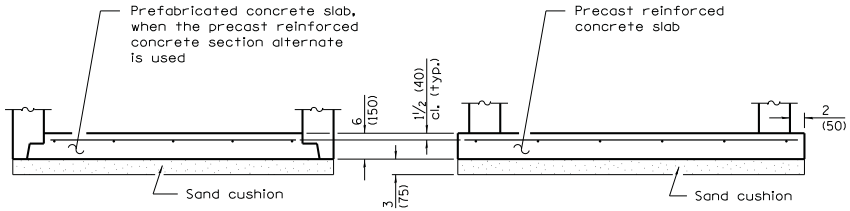
DEPRESSED CORNER FOR SIDEWALKS

STANDARD 424021–02



ELEVATION
(Standard Outlet)

ELEVATION
(Half Trap)



ALTERNATE BOTTOM SLAB

ALTERNATE MATERIALS FOR WALLS	D	C•	T (min.)
Concrete Masonry Unit	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	5 (125) 5 (125)
Brick Masonry	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	8 (200) 8 (200)
Precast Reinforced Concrete Section	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	4 (100) 5 (125)
Cast-in-place Concrete	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	6 (150) 6 (150)

• For precast reinforced concrete sections, dimension "C" may vary from the dimension given to plus 6 (150).

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.20 sq. in./ft (420 sq. mm/m) in both directions with a maximum spacing of 12 (300).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

See Standard 602601 for optional precast reinforced concrete flat slab top.

See Standard 602701 for details of steps.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

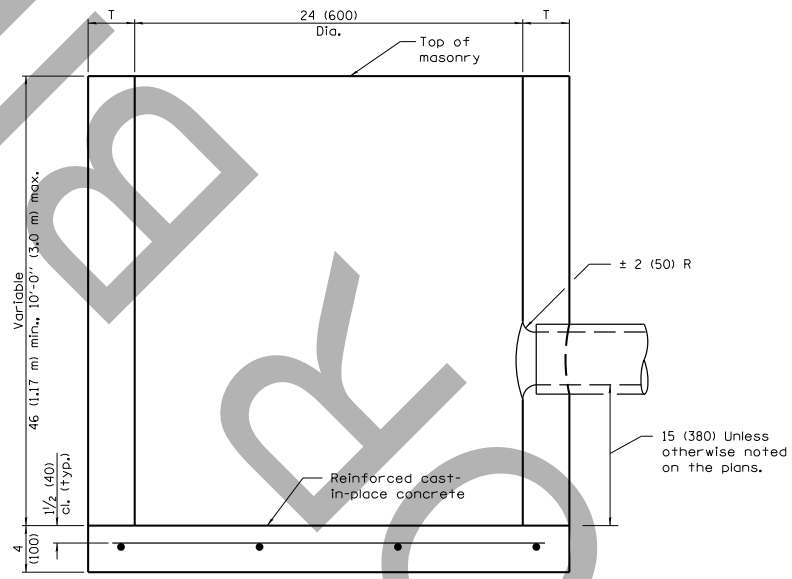
PASSED January 1, 2011
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Added 'Outside' to half trap
	note. Detail rein. in slabs.
	Revised general notes.
1-1-09	Switched units to
	English (metric).

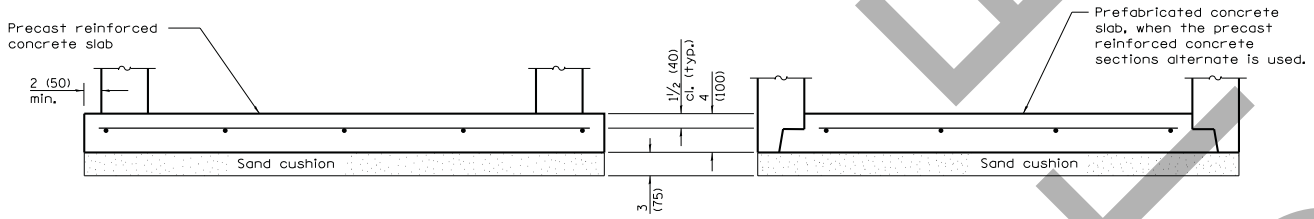
CATCH BASIN TYPE A

STANDARD 602001-02



ELEVATION

ALTERNATE MATERIALS FOR WALLS	T (min)
Precast Reinforced Concrete Section	3 (75)
Concrete Masonry Unit	5 (125)
Cast-in-Place Concrete	6 (150)
Brick Masonry	8 (200)



ALTERNATE BOTTOM SLAB

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.27 sq. in./ft. (570 sq. mm/m) in both directions with a maximum spacing of 9 (230).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2011
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

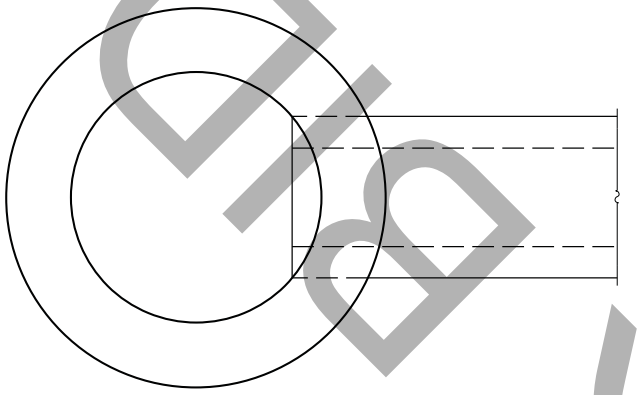
ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Detailed rein. in slabs.
	Added max. limit to height.
	Added general notes.
1-1-09	Switched units to
	English (metric).

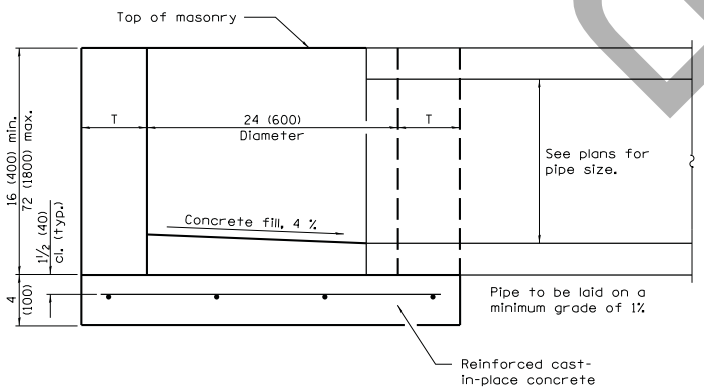
CATCH BASIN TYPE C

STANDARD 602011-02

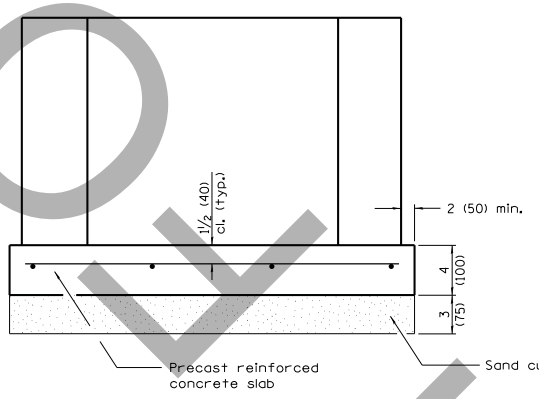
ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	8 (200)
CAST-IN-PLACE CONCRETE	6 (150)
CONCRETE MASONRY UNIT	5 (125)
PRECAST REINFORCED CONCRETE SECTION	3 (75)

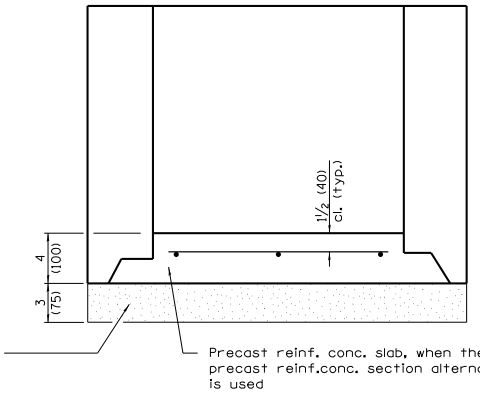


PLAN



ELEVATION





ALTERNATE METHODS

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.24 sq. in./ft. (510 sq. mm/m) in both directions with a maximum spacing of 10 (250).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2014
Michael Brand
ENGINEER OF POLICY AND PROCEDURES

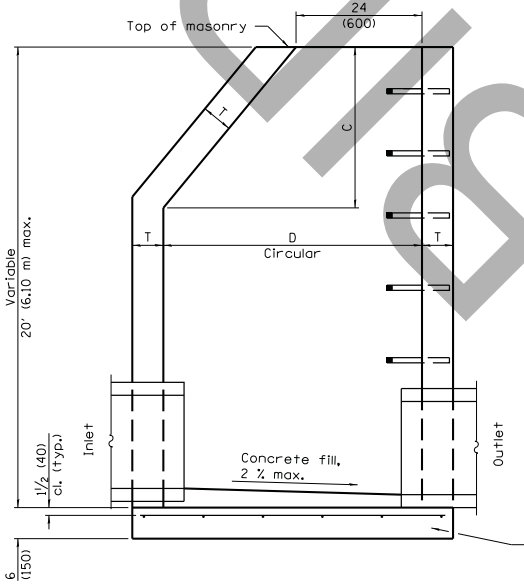
APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

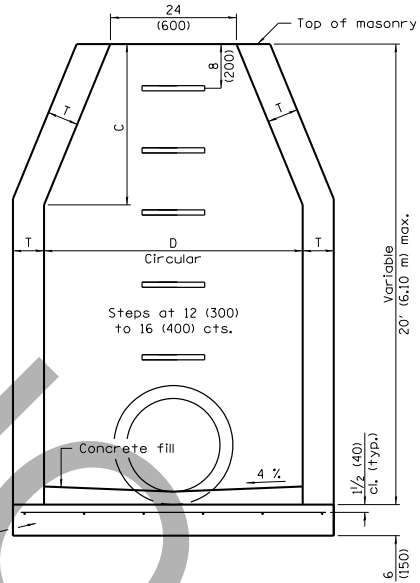
DATE	REVISIONS
1-1-14	Increased height to 72 (1800) maximum.
1-1-11	Detailed rein. in slabs.
	Added max. limit to height.
	Added general notes.

INLET – TYPE A

STANDARD 602301–04



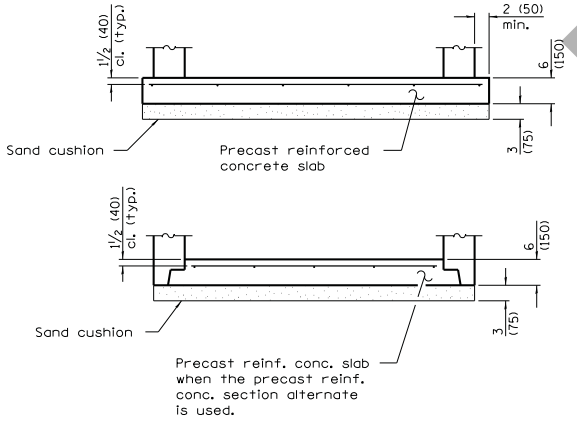
ELEVATION – ECCENTRIC



ELEVATION – CONCENTRIC

ALTERNATE MATERIALS FOR WALLS	D	C•	T (min.)
Concrete Masonry Unit	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	5 (125) 5 (125)
Brick Masonry	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	8 (200) 8 (200)
Precast Reinforced Concrete Section	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	4 (100) 5 (125)
Cast-in-place Concrete	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	6 (150) 6 (150)

• For precast reinforced concrete sections, dimension "C" may vary from the dimension given to plus 6 (150).



ALTERNATE BOTTOM SLAB

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.31 sq. in./ft. (660 sq. mm/m) in both directions with a maximum spacing of 12 (300).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

See Standard 602701 for details of steps.

See Standard 602601 for optional Precast Reinforced Concrete Flat Slab Top.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

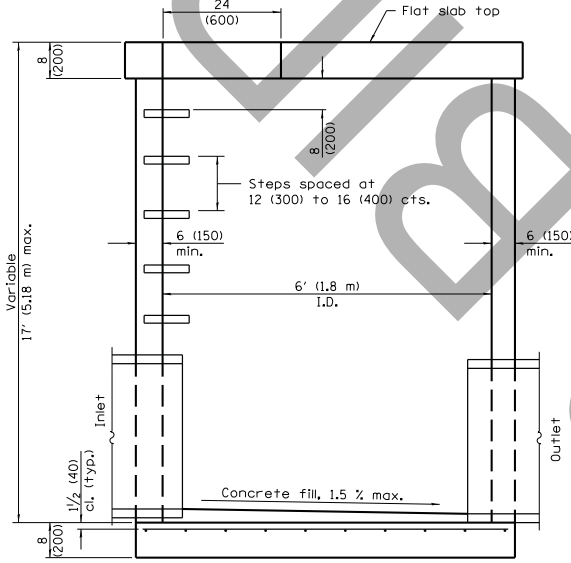
PASSED January 1, 2011
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

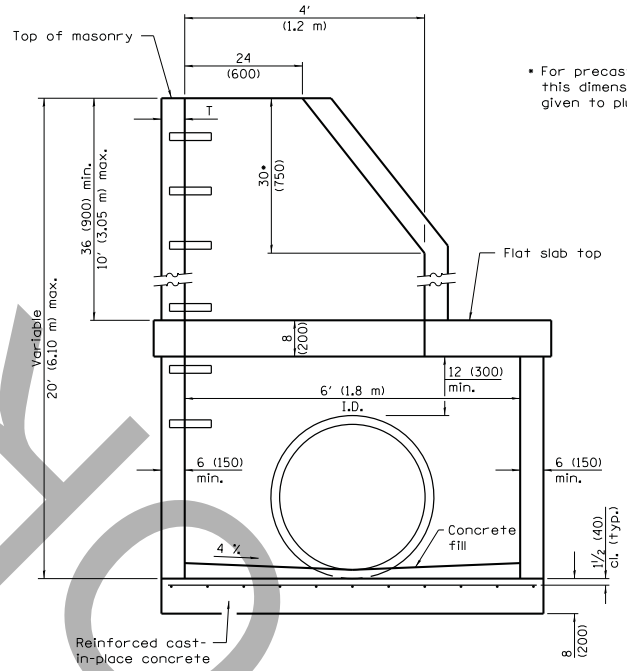
DATE	REVISIONS
1-1-11	Detailed rein. in slabs.
	Added max. limit to height.
	Revised general notes.
1-1-09	Switched units to
	English (metric).

MANHOLE TYPE A

STANDARD 602401–03

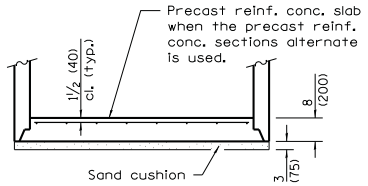


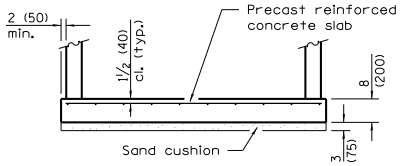
ELEVATION
(with flat slab top only)



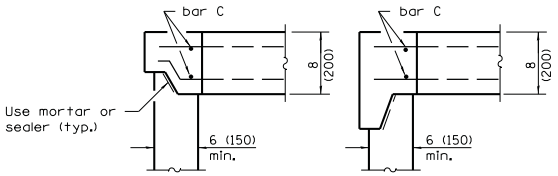
▪ For precast reinforced concrete sections, this dimension may vary from the dimension given to plus 6 (150).

ELEVATION
(with flat slab top and riser)





ALTERNATE BOTTOM SLABS



ALTERNATE JOINT CONFIGURATIONS

ALTERNATE MATERIALS FOR WALLS	T (min)
Concrete Masonry Units	5 (125)
Precast Reinforced Concrete Sections	4 (100)
Cast-in-Place Concrete	6 (150)

GENERAL NOTES

Joint configuration and dimensions of flat slab top shall match and fit the riser joint detail.

Bottom slabs shall be reinforced with a minimum of 0.29 sq. in./ft. (610 sq. mm /m) in both directions with a maximum spacing of 13 (330)

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

See Standard 602701 for details of manhole steps.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2014
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT

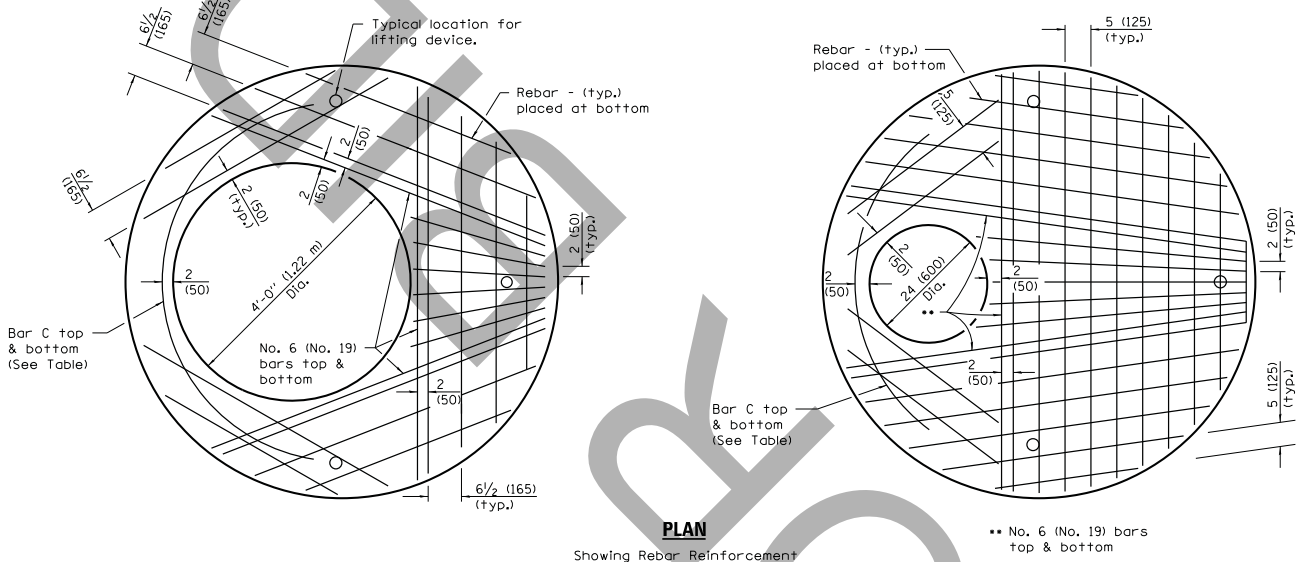
ISSUED 1-1-97

DATE	REVISIONS
1-1-14	Increased maximum heights.
	Revised General Notes.
1-1-12	Added 12 (300) min. from pipe
	to interm. slab, changed
	riser to 36 (900) min height.

MANHOLE TYPE A
6' (1.8 m) DIAMETER

(Sheet 1 of 2)

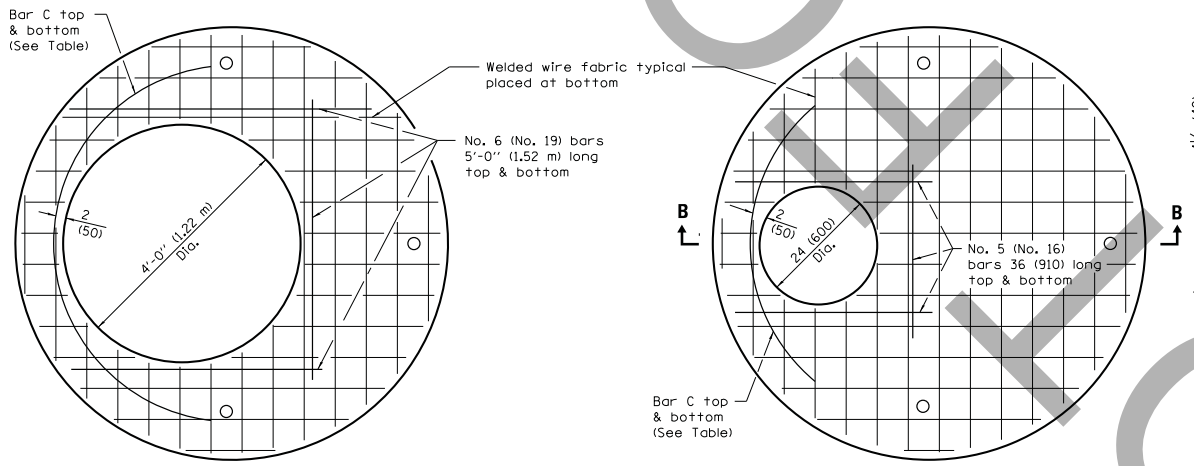
STANDARD 602406-06



PLAN

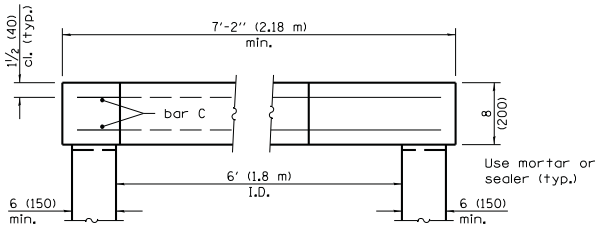
Showing Rebar Reinforcement

Diameter of opening	Thickness	Reinforcement "As" WWF Each direction	Bar Size	No. 4 (No. 13) Bar C	
				Length	Radius
24 (600)	8 (200)	1.06 sq. in./ft. (2244 sq. mm/m)	No. 6 (No. 19)	6'-0" (1.83 m)	38 (965)
4'-0" (1.2 m)	8 (200)	0.82 sq. in./ft/ (1736 sq. mm/m)	No. 6 (No. 19)	9'-0" (2.74 m)	38 (965)



PLAN

Showing Welded Wire Fabric Reinforcement



SECTION B–B

Illinois Department of Transportation

PASSED January 1, 2014

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2014

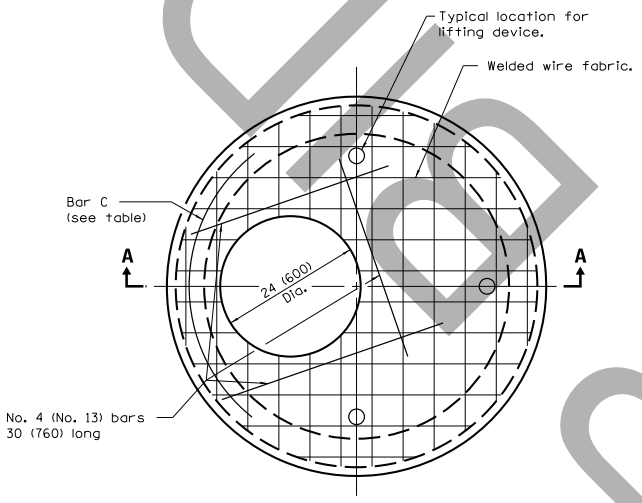
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

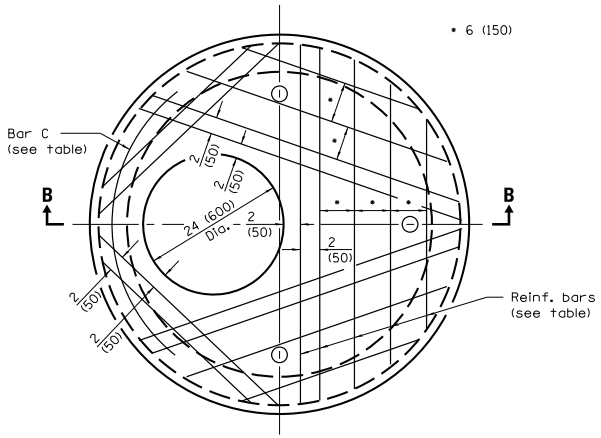
MANHOLE TYPE A 6' (1.8 m) DIAMETER

(Sheet 2 of 2)

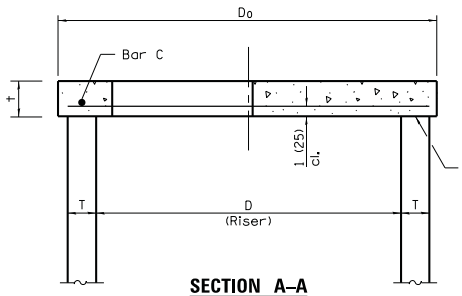
STANDARD 602406–06



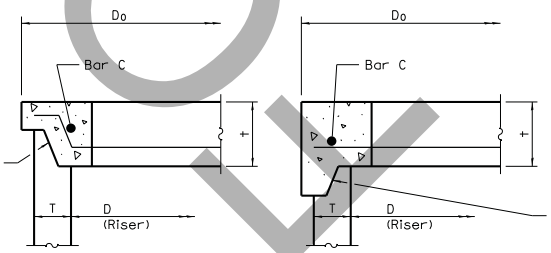
PLAN
(WELDED WIRE FABRIC)



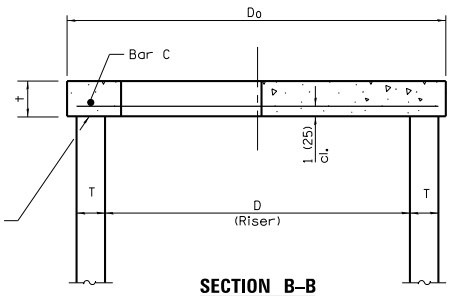
PLAN
(REINFORCEMENT BARS)



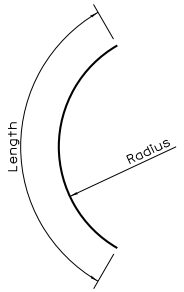
SECTION A–A



ALTERNATE JOINT CONFIGURATIONS



SECTION B–B



BAR C

TABLE

D	T	D_0 (min.)	t	Reinforcement "A_s" W.W.F. each direction	OR Bar size	No. 4 (No. 13) Bar C Length	Radius
36 (900)	See applicable Standards	D + 2T	6 (150)	0.20 sq. in./ft. (425 sq. mm/m)	No. 4 (No. 13)	4′-0″ (1.2 m)	19 (480)
4′-0″ (1.2 m)			6 (150)	0.35 sq. in./ft. (740 sq. mm/m)	No. 5 (No. 16)	4′-6″ (1.35 m)	26 (660)
5′-0″ (1.5 m)			8 (200)	0.35 sq. in./ft. (740 sq. mm/m)	No. 5 (No. 16)	5′-0″ (1.5 m)	32 (810)

GENERAL NOTES

The flat slab top may be used in lieu of the tapered tops shown on Standards 602001, 602011, 602016, 602306, 602401, or 602501 at the option of the Contractor or when field conditions prohibit the use of tapered tops.

All dimensions are in millimeters (inches) unless otherwise shown.

Illinois Department of Transportation

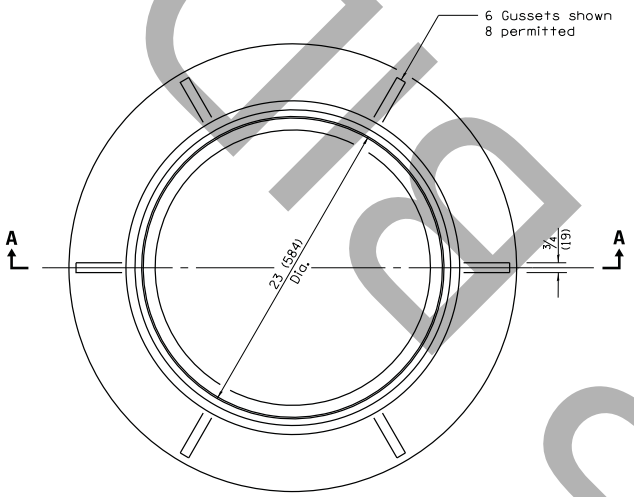
PASSED January 1, 2014
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

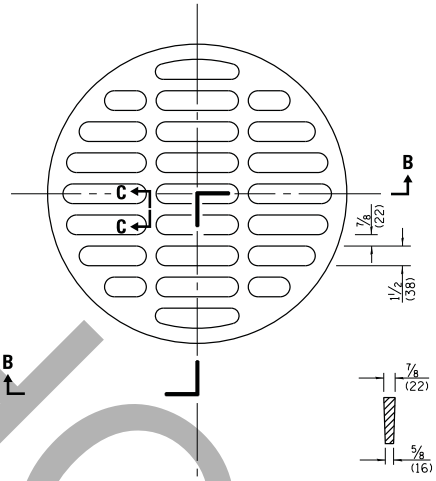
DATE	REVISIONS
1-1-14	Omitted detail for lifting hole or lifting loop.
1-1-09	Switched units to English (metric).

PRECAST REINFORCED CONCRETE FLAT SLAB TOP

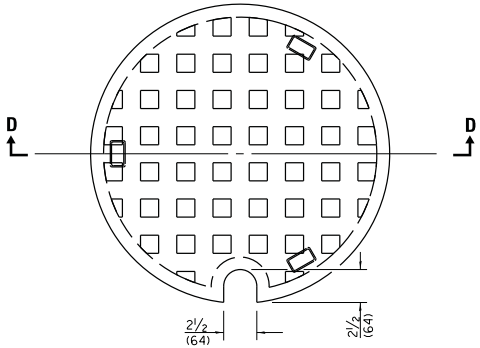
STANDARD 602601–03

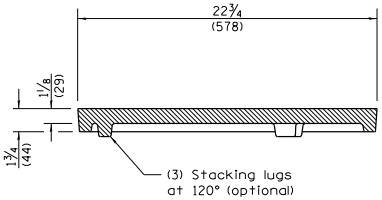


CAST FRAME

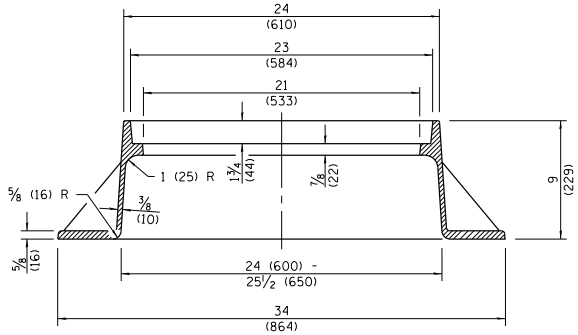


SECTION C–C

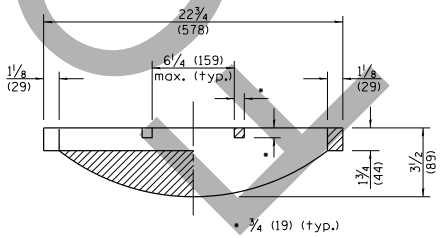




SECTION D–D



SECTION A–A
Gray Iron



SECTION B–B

CAST OPEN LID

CAST CLOSED LID
Gray Iron Lid

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-04	Removed weights.

FRAME AND LIDS TYPE 1

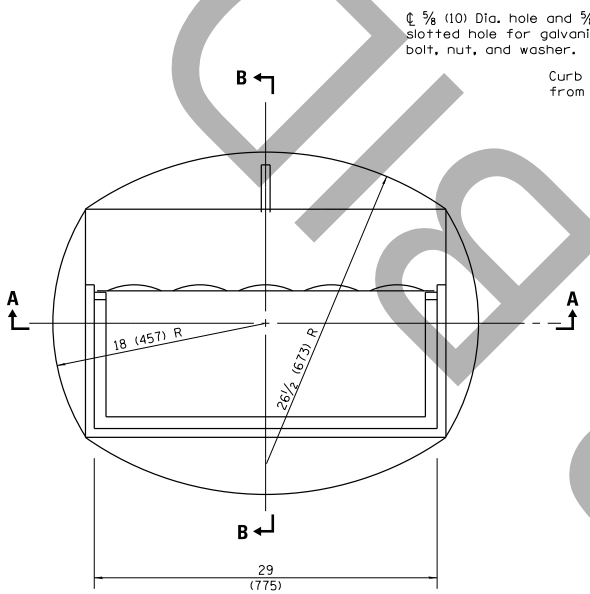
STANDARD 604001–03

Illinois Department of Transportation

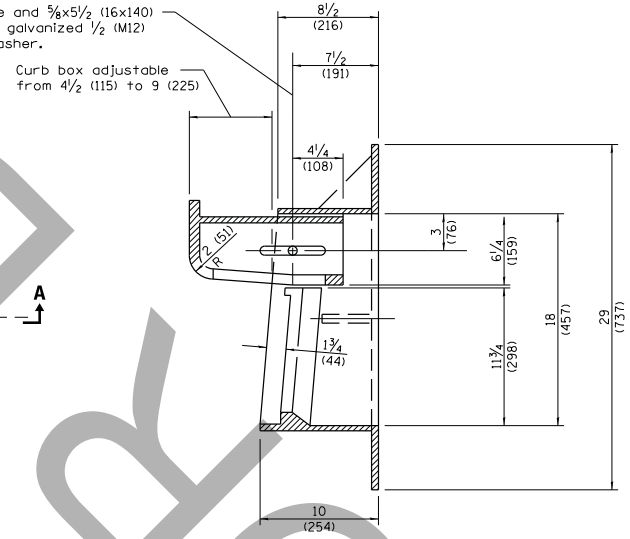
PASSED January 1, 2009
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT

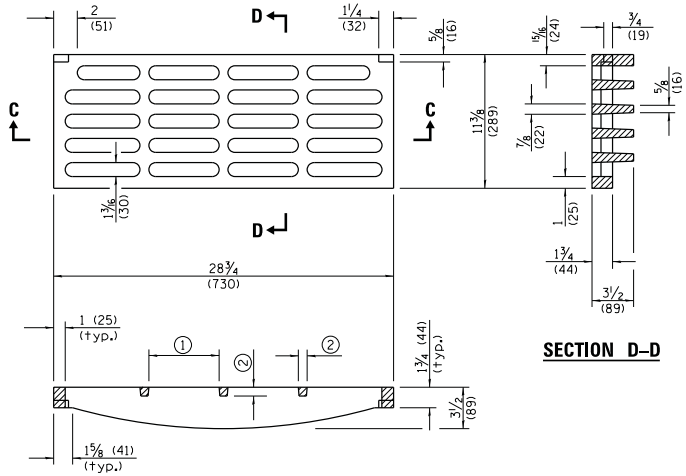
ISSUED 1-1-97



CAST FRAME



SECTION B–B

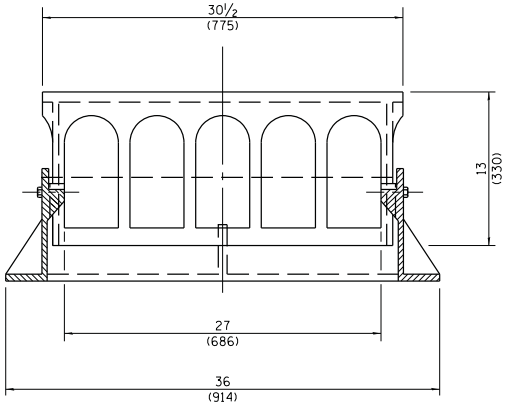


SECTION D–D

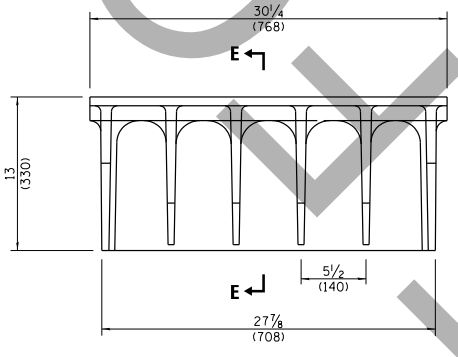
SECTION C–C

① = 6¼ (159) max. (typ.)
② = ¾ (19) min. (typ.)

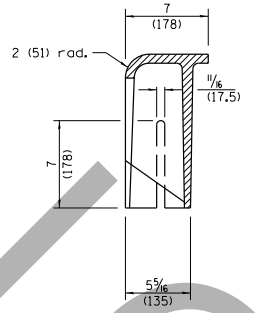
CAST GRATE



SECTION A–A



ALTERNATE CURB BOX



SECTION E–E

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

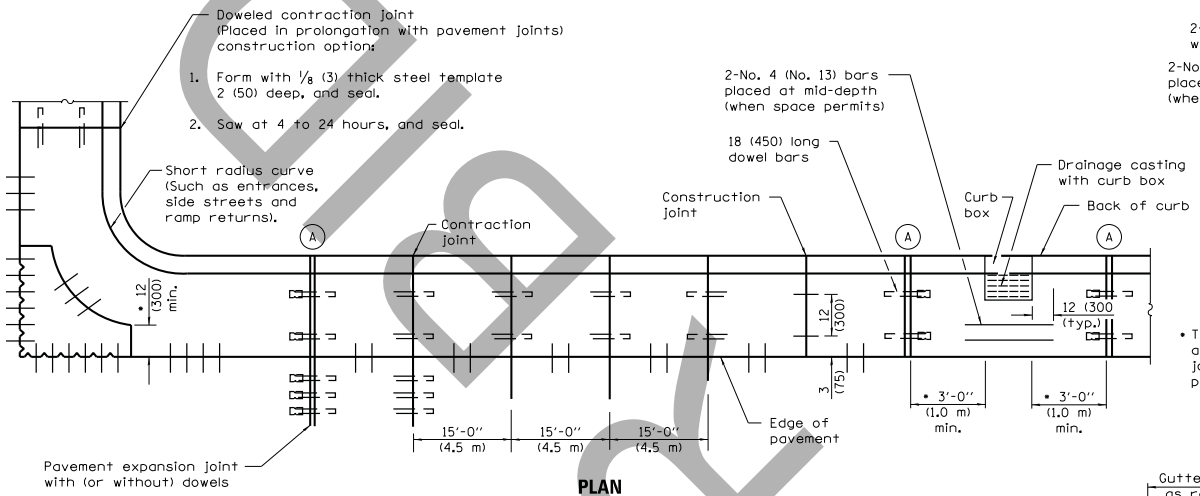
PASSED January 1, 2015
Michael Brand
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-15	Revised dimensions of frame
	and alternate curb box.
4-1-09	Switched units to
	English (metric).

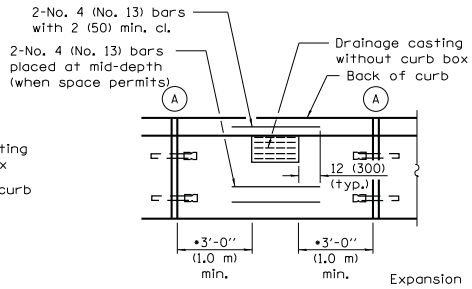
FRAME AND GRATE TYPE 11

STANDARD 604051–04

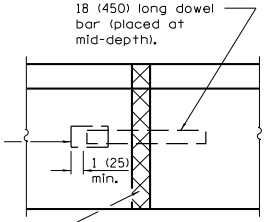


PLAN

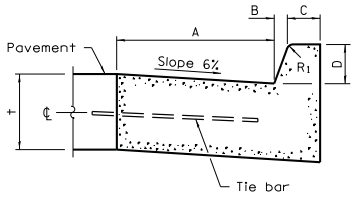
ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE



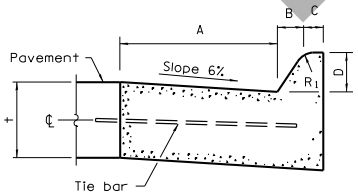
• This dimension shall be adjusted to align with joint on the adjacent pavement



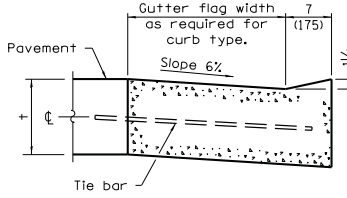
DETAIL (A) EXPANSION JOINT



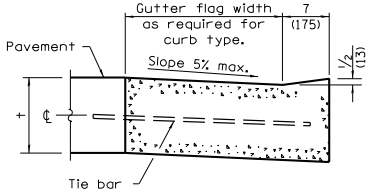
BARRIER CURB



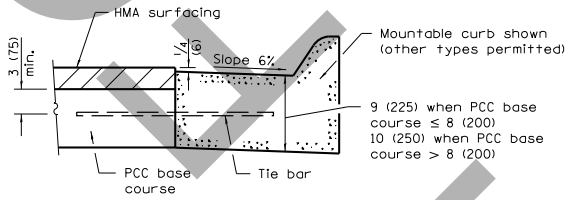
MOUNTABLE CURB



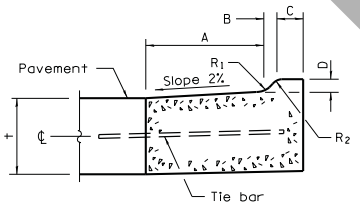
DEPRESSED CURB (TYPICAL)



DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED



ADJACENT TO PCC BASE COURSE WITH HMA SURFACING



M–2.06 (M–5.15) and M–2.12 (M–5.30)

TABLE OF DIMENSIONS BARRIER CURB					
TYPE	A	B	C	D	R_1
B-6.12 (B-15.3)	12 (300)	1 (25)	6 (150)	6 (150)	1 (25)
B-6.18 (B-15.45)	18 (450)	1 (25)	6 (150)	6 (150)	1 (25)
B-6.24 (B-15.60)	24 (600)	1 (25)	6 (150)	6 (150)	1 (25)
B-9.12 (B-22.30)	12 (300)	2 (50)	5 (125)	9 (225)	1 (25)
B-9.18 (B-22.45)	18 (450)	2 (50)	5 (125)	9 (225)	1 (25)
B-9.24 (B-22.60)	24 (600)	2 (50)	5 (125)	9 (225)	1 (25)

TABLE OF DIMENSIONS MOUNTABLE CURB						
TYPE	A	B	C	D	R_1	R_2
M-2.06 (M-5.15)	6 (150)	2 (50)	4 (100)	2 (50)	3 (75)	2 (50)
M-2.12 (M-5.30)	12 (300)	2 (50)	4 (100)	2 (50)	3 (75)	2 (50)
M-4.06 (M-10.15)	6 (150)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-4.12 (M-10.30)	12 (300)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-4.18 (M-10.45)	18 (450)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-4.24 (M-10.60)	24 (600)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-6.06 (M-15.15)	6 (150)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-6.12 (M-15.30)	12 (300)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-6.18 (M-15.45)	18 (450)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-6.24 (M-15.60)	24 (600)	6 (150)	2 (50)	6 (150)	2 (50)	NA

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.

t = Thickness of pavement.

Longitudinal joint tie bars shall be No. 6 (No. 19) at 24 (600) centers in accordance with details for longitudinal construction joint shown on Standard 420001.

A minimum clearance of 2 (50) between the end of the tie bar and the back of the curb shall be maintained.

The dowel bars shown in contraction joints will only be required for monolithic construction.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2013
Michael Briand
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2013
ENGINEER OF DESIGN AND ENVIRONMENT

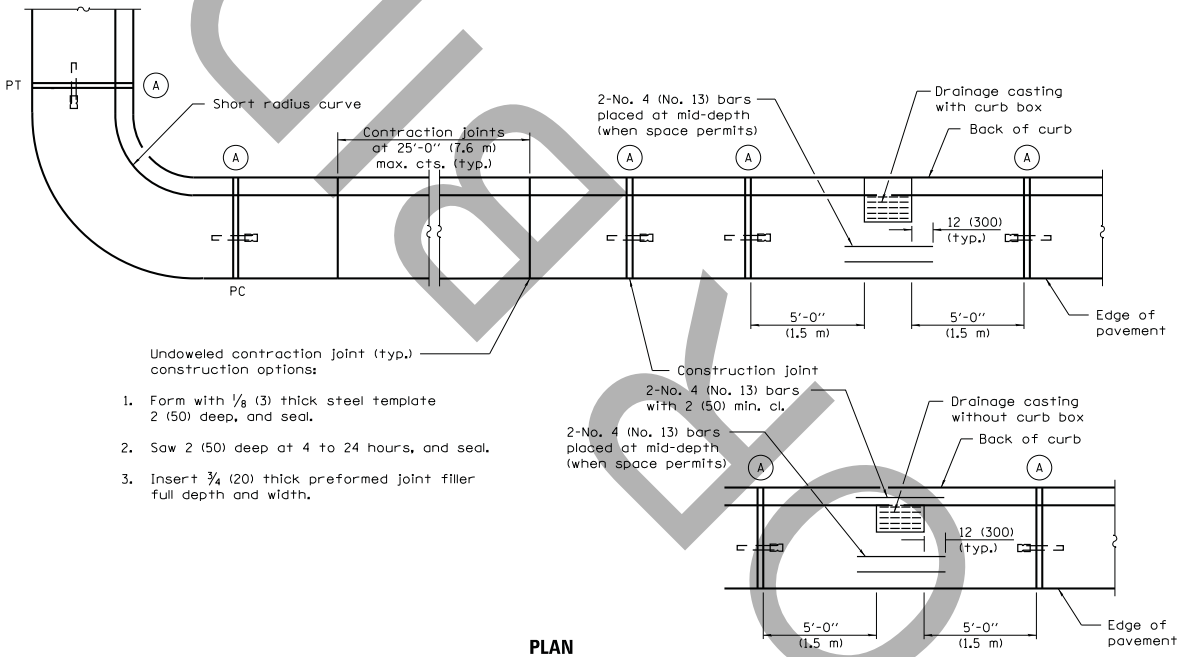
ISSUED 1-1-97

DATE	REVISIONS
1-1-13	Added general note
	regarding requirement
	for dowel bars.
1-1-09	Switched units to
	English (metric).

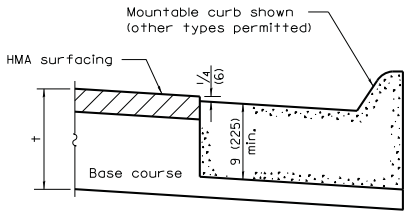
CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

(Sheet 1 of 2)

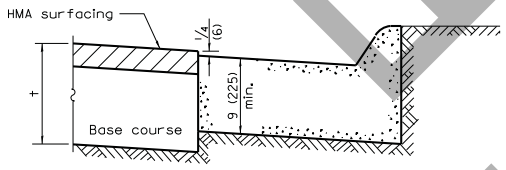
STANDARD 606001–05



PLAN

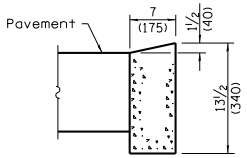


ON DISTURBED SUBGRADE

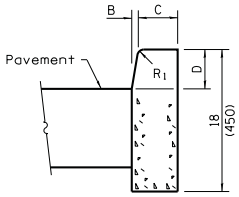


ON UNDISTURBED SUBGRADE

ADJACENT TO FLEXIBLE PAVEMENT

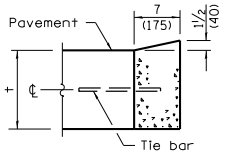


DEPRESSED CURB

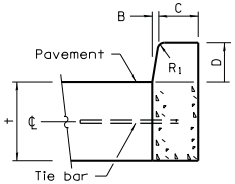


BARRIER CURB

ADJACENT TO FLEXIBLE PAVEMENT



DEPRESSED CURB



BARRIER CURB

ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE

CONCRETE CURB TYPE B

Illinois Department of Transportation

PASSED January 1, 2013
Michael Brand
ENGINEER OF POLICY AND PROCEDURES

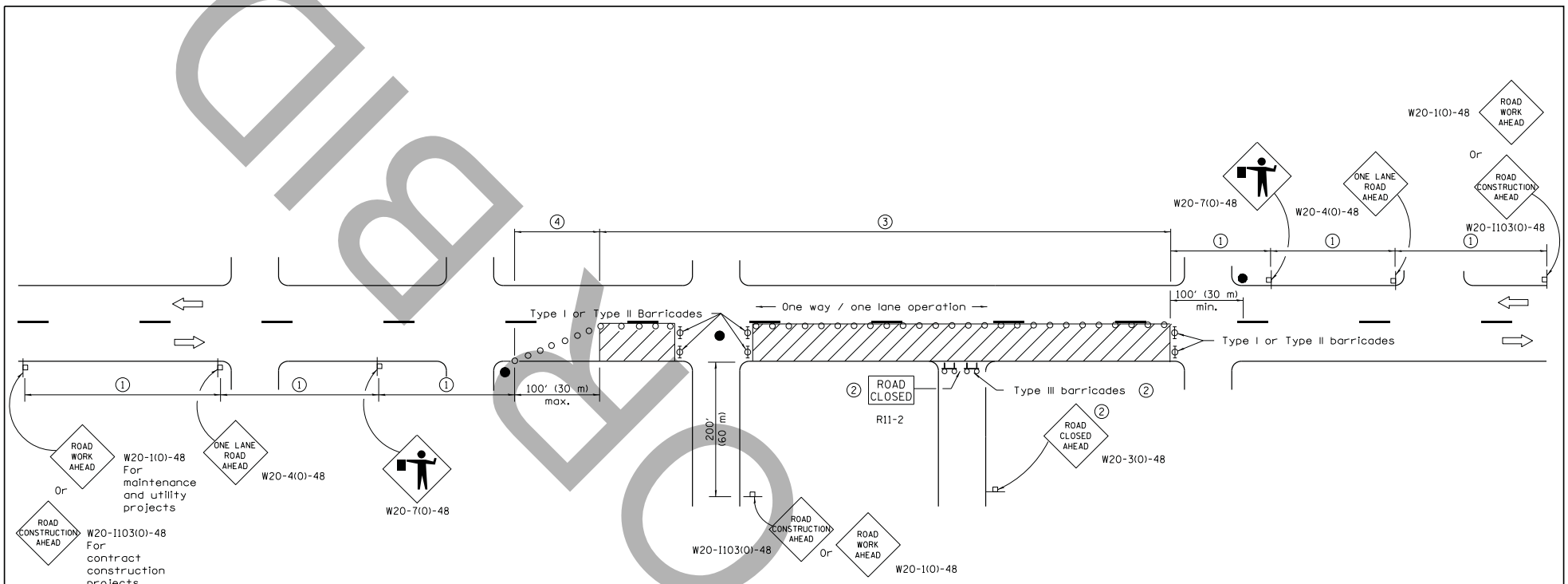
APPROVED January 1, 2013
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

(Sheet 2 of 2)

STANDARD 606001-05



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

SYMBOLS

- Work area
- Cone, drum or barricade (not required for moving operations)
- Sign on portable or permanent support
- Flagger with traffic control sign
- Barricade or drum with flashing light
- Type III barricade with flashing lights

1. Refer to SIGN SPACING TABLE for distances.
2. For approved 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.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

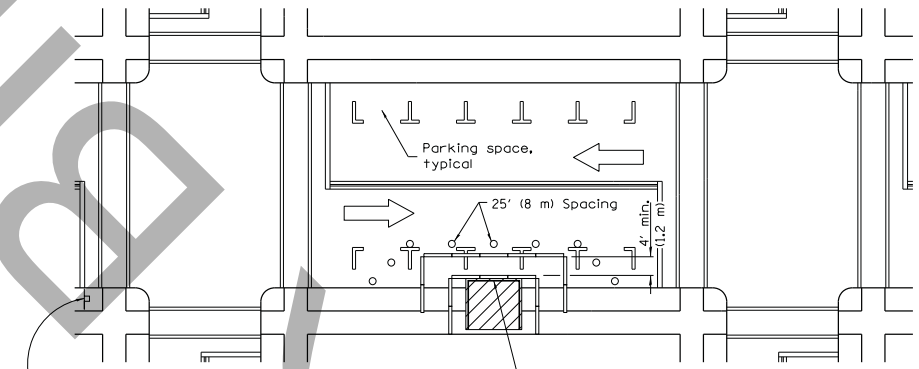
APPROVED January 1, 2011
ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to
	English (metric).
	Corrected sign No.'s.

URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

STANDARD 701501–06



① ROAD CONSTRUCTION AHEAD — W20-I103(O)-48 for contract construction projects

Or

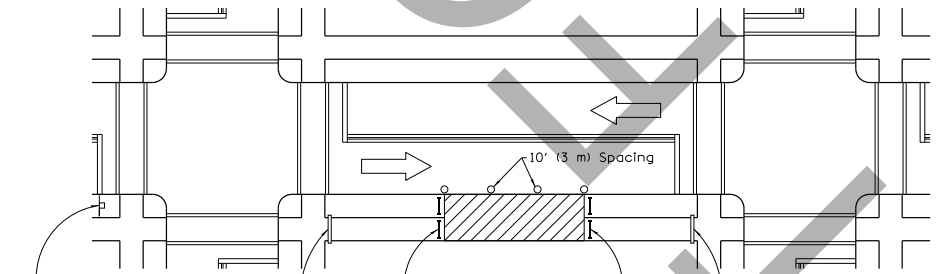
① ROAD WORK AHEAD — W20-I(O)-48 for maintenance and utility projects

SIDEWALK DIVERSION

① Omit whenever duplicated by road work traffic control.

SYMBOLS

- Work area
- Sign on portable or permanent support
- Barricade or drum
- Cone, drum or barricade
- Type III barricade
- Detectable pedestrian chanellizing barricade



① ROAD CONSTRUCTION AHEAD — W20-I103(O)-48 for contract construction projects

Or

① ROAD WORK AHEAD — W20-I(O)-48 for maintenance and utility projects

SIDEWALK CLOSURE

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2012
ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2012
ENGINEER OF DESIGN AND ENVIRONMENT

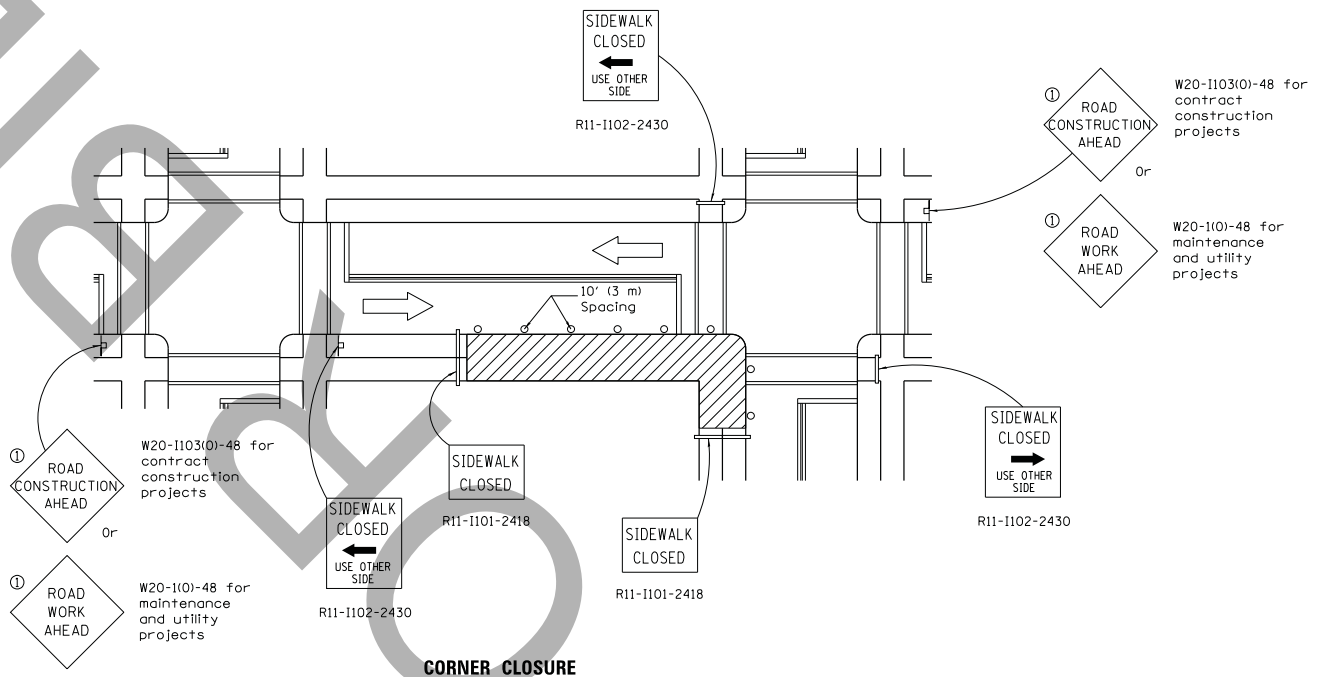
ISSUED 1-1-97

DATE	REVISIONS
1-1-12	Added SIDEWALK DIVERSION.
	Modified appearance of
	plan views. Renamed Std.
1-1-09	Switched units to
	English (metric).
	702001 to 701901.

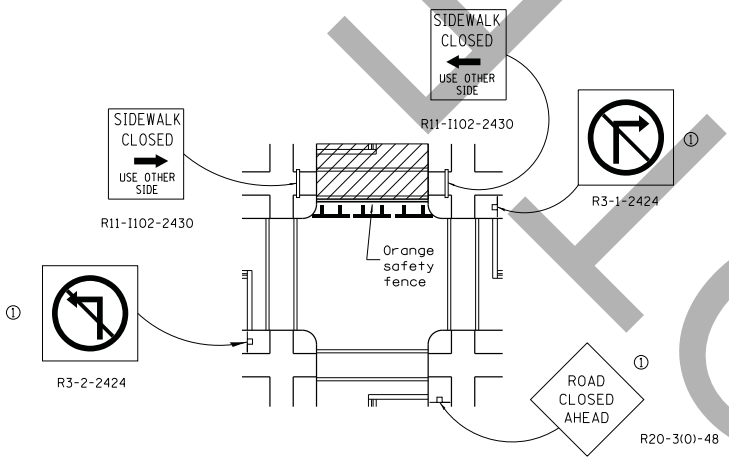
SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

STANDARD 701801–05



CORNER CLOSURE



CROSSWALK CLOSURE

Illinois Department of Transportation

APPROVED January 1, 2012
ENGINEER OF SAFETY ENGINEERING

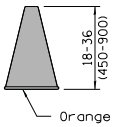
APPROVED January 1, 2012
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

SIDEWALK, CORNER OR CROSSWALK CLOSURE

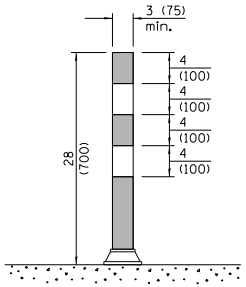
(Sheet 2 of 2)

STANDARD 701801–05

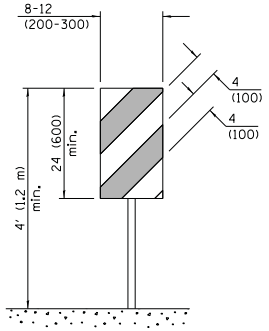


CONE

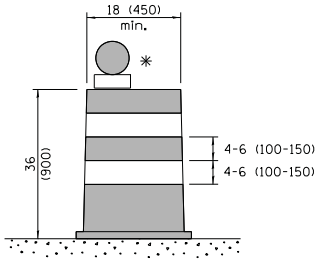
REFLECTORIZED CONE



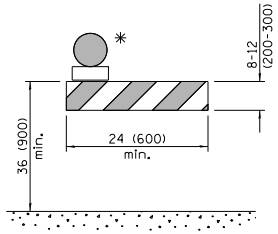
FLEXIBLE DELINEATOR



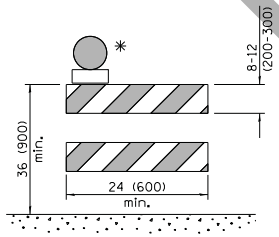
VERTICAL PANEL
POST MOUNTED



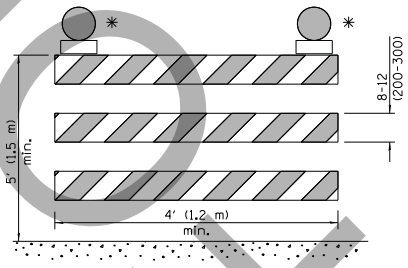
DRUM



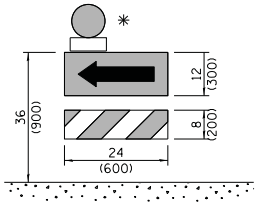
TYPE I BARRICADE



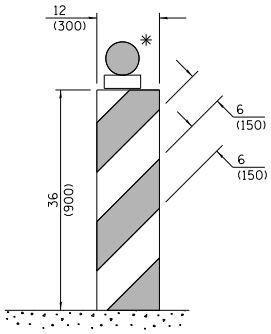
TYPE II BARRICADE



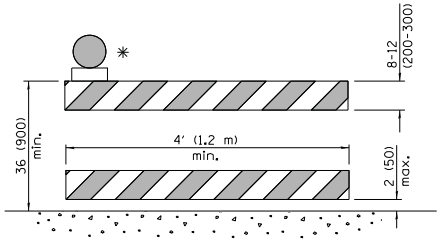
TYPE III BARRICADE



DIRECTION INDICATOR BARRICADE



VERTICAL BARRICADE



DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

* Warning lights (if required)

GENERAL NOTES

All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2014
ENGINEER OF OPERATIONS

APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT

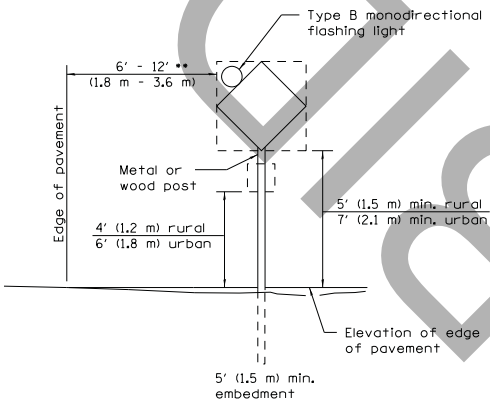
ISSUED 1-1-97

DATE	REVISIONS
1-1-14	Modified flagger sign height.
	Added highway construction
	speed zone signs.
1-1-12	Added DETECTABLE PEDESTRIAN
	CHANNELIZING BARRICADE.

TRAFFIC CONTROL DEVICES

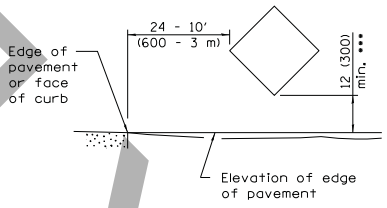
(Sheet 1 of 3)

STANDARD 701901-03



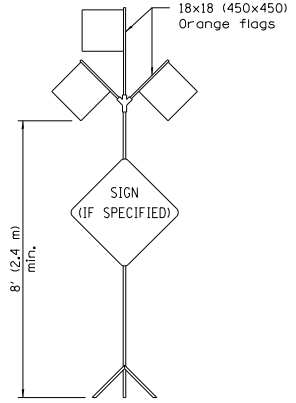
POST MOUNTED SIGNS

•• When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.

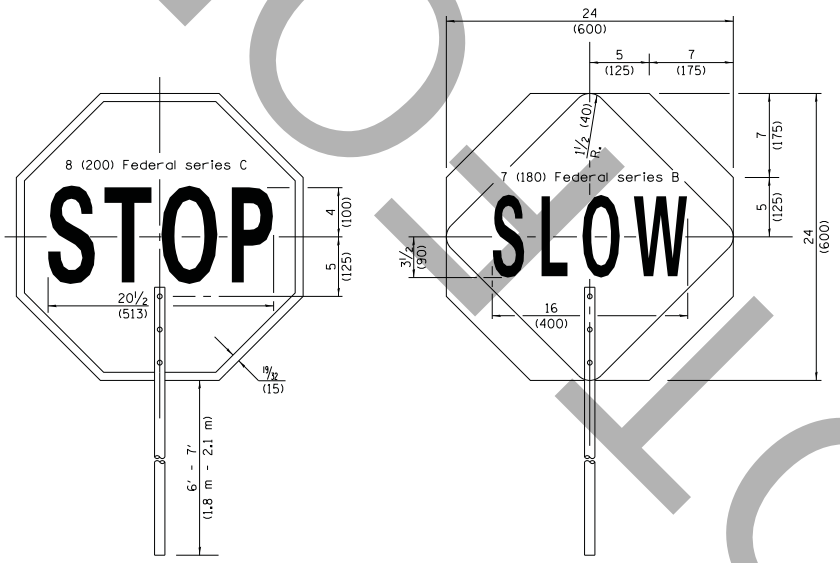


SIGNS ON TEMPORARY SUPPORTS

••• When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



HIGH LEVEL WARNING DEVICE



FLAGGER TRAFFIC CONTROL SIGN

ROAD CONSTRUCTION NEXT X MILES — G20-1(0)-6036

END CONSTRUCTION — G20-2a(0)-6024

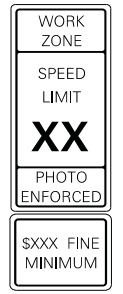
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING



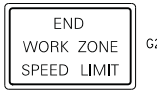
W21-1115(0)-3618

R2-1-3648

R10-1108p-3618

R2-1106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.



G20-1103(0)-3660

This sign shall be used when the above sign assembly is used.

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

Illinois Department of Transportation

APPROVED January 1, 2014
ENGINEER OF OPERATIONS

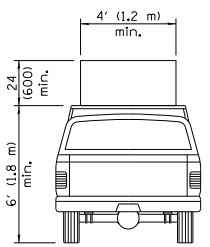
APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

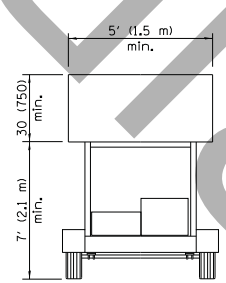
TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

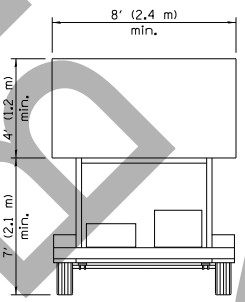
STANDARD 701901-03



TYPE A ROOF MOUNTED

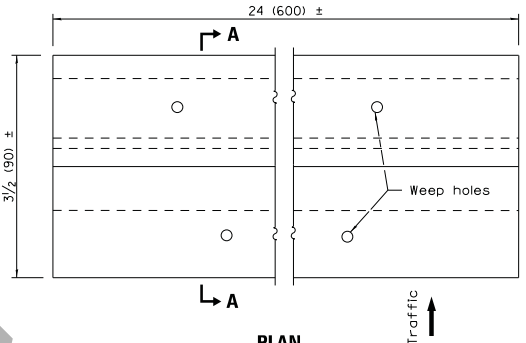


TYPE B ROOF OR TRAILER MOUNTED

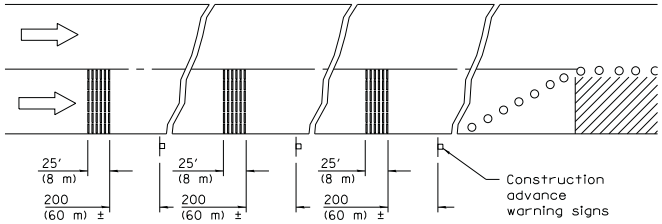


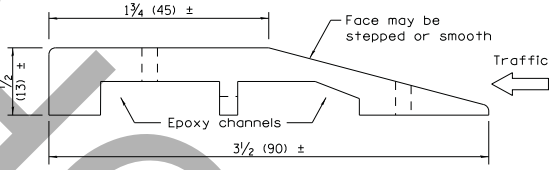
TYPE C TRAILER MOUNTED

ARROW BOARDS

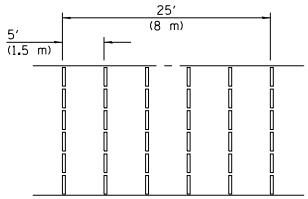


PLAN



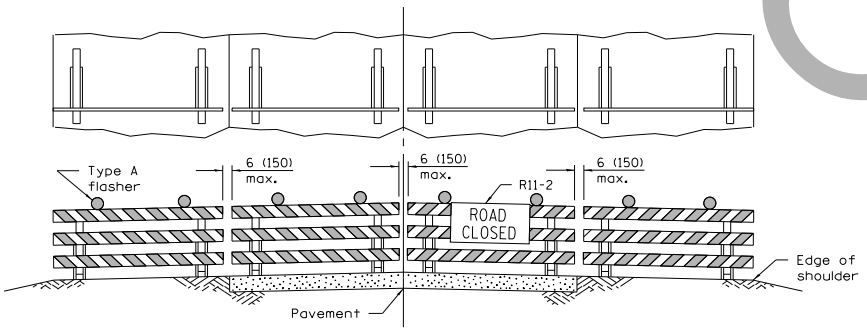


SECTION A–A



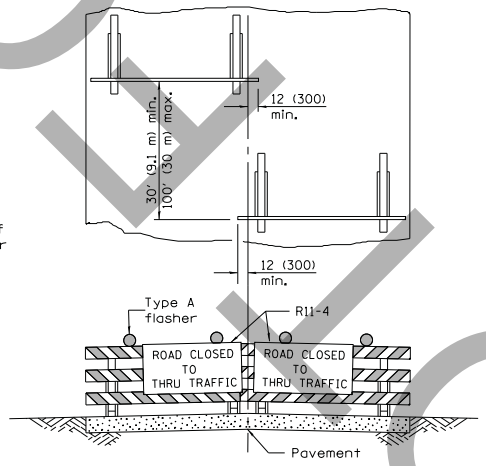
TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS



ROAD CLOSED TO ALL TRAFFIC

Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



ROAD CLOSED TO THRU TRAFFIC

Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD

Illinois Department of Transportation

APPROVED January 1, 2014
ENGINEER OF OPERATIONS

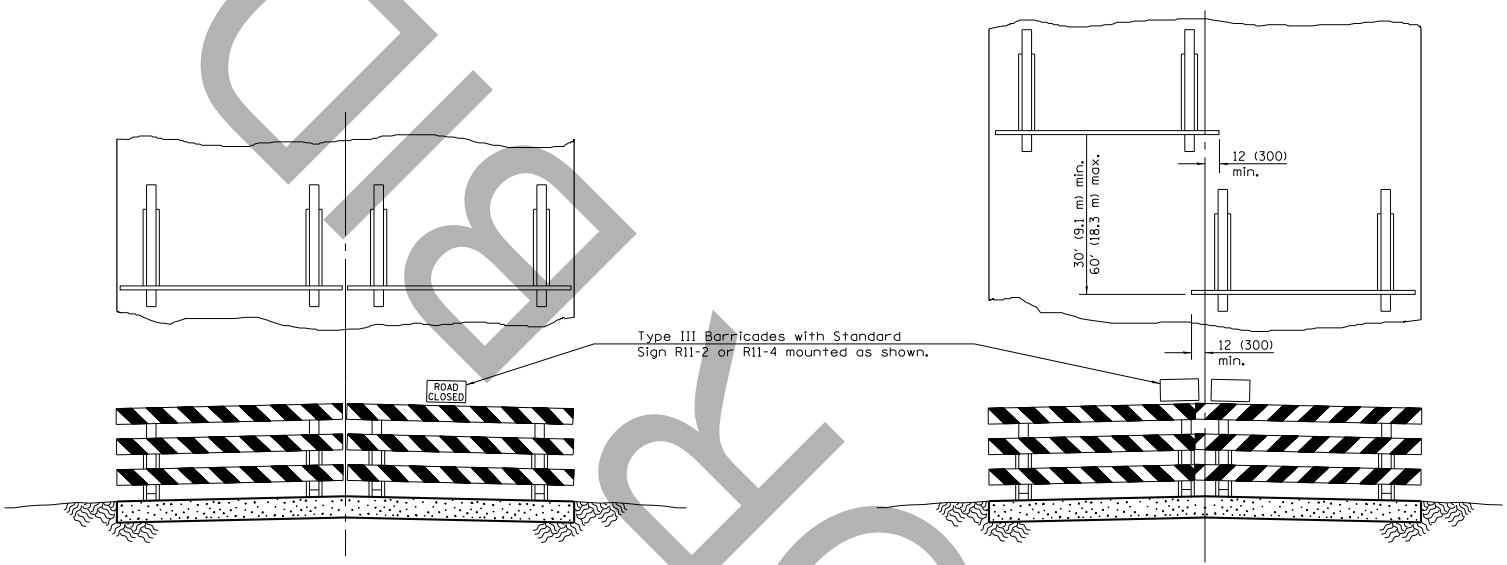
APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

TRAFFIC CONTROL DEVICES

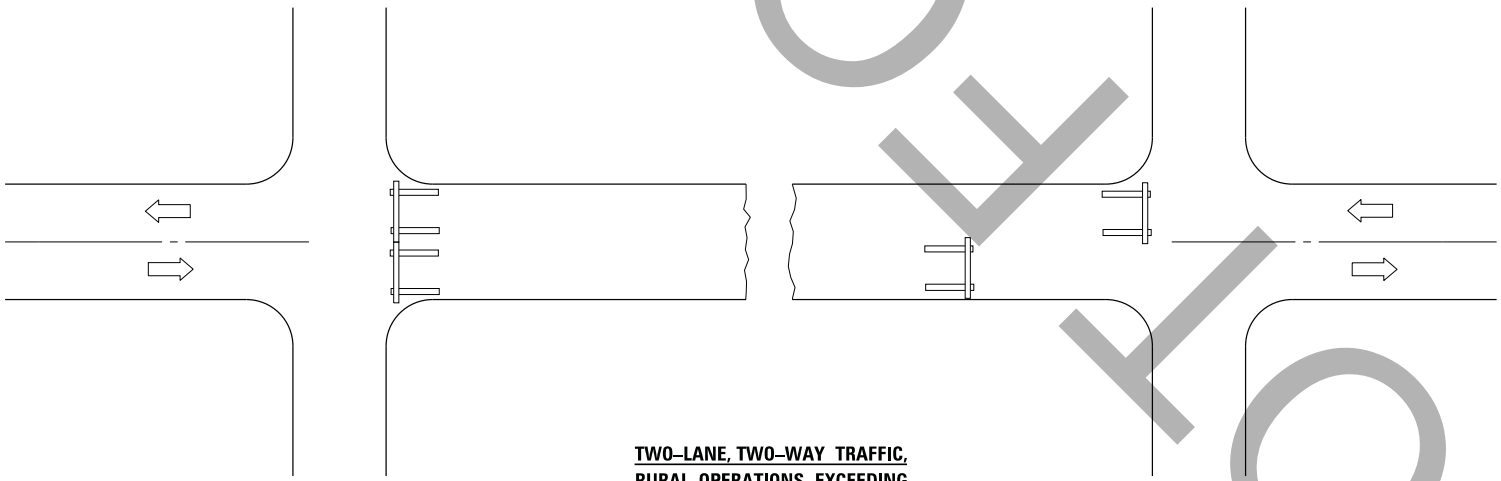
(Sheet 3 of 3)

STANDARD 701901–03



Resident traffic and day labor force's equipment to use road shoulder for passing barricade.

Use when shoulders are too narrow for passage of traffic.



TWO–LANE, TWO–WAY TRAFFIC, RURAL OPERATIONS EXCEEDING ONE DAYLIGHT PERIOD

GENERAL NOTES

Type III barricades to be width of pavement only.

Reflectorized striping shall appear on both sides of barricades. Barricades shall be positioned so that stripes slope downward toward the side on which traffic is to pass.

Although not shown, advance warning signs with minimum dimensions of 36x36 (900x900) and black legends on orange reflectorized backgrounds shall be utilized where needed.

This case is for use on rural local roads where the local authority considers this protection to be appropriate for the specific job conditions.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2009
ENGINEER OF LOCAL ROADS AND STREETS

APPROVED January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-98	Rev. "R11-1" to "R11-4".
	Rev. 4th General Note.

TRAFFIC CONTROL DEVICES – DAY LABOR CONSTRUCTION

STANDARD B.L.R. 17–4

VILLAGE OF VILLA PARK

PUBLIC WORKS STANDARDS

PUBLIC WORKS DEPARTMENT
20 SOUTH ARDMORE AVENUE
VILLA PARK, ILLINOIS 60181
PHONE 630.834.8505
FAX 630.834.8509

Revised 05/02/2008

PUBLIC WORKS STANDARDS INDEX

STANDARD DETAILS INDEX

VILLAGE OF VILLA PARK
STANDARD ENGINEERING NOTES
Revised 05/02/2008

1. The Public Works Department, (630) 834-8505, must be notified twenty-four (24) hours in advance for inspections and shutoffs and forty-eight (48) hours in advance for water taps.

2. One (1) set of approved plans must be on the site at all times.

3. All paving, curb & gutter, driveways, and sidewalks, including earthwork required for preparation of sub-grade, will be constructed in accordance with the Illinois Department of Transportation's (IDOT) "Standard Specifications for Road and Bridge Construction," current edition and supplements, except as modified to conform with Village of Villa Park requirements.

4. Trenches under and within three feet (3') of pavement (streets, driveways, curb & gutter, and sidewalks) will be backfilled with granular trench backfill conforming to a gradation of CA-6/Grade 8. Granular trench backfill will be mechanically compacted in layers of 12" maximum, loose measure, to 95% of standard density (ASTM D698).

5. All existing pavement to be removed will be saw cut full depth along the limits of the removal.

6. Replacement of the street pavement subsequent to the installation of utilities will meet IDOT Standard Specifications for Road and Bridge Construction, Article 442.06, and be made as follows:

   a. Asphalt - 2" Hot-Mix Asphalt Surface Course, Mix "D", N50, over a 4" Hot-Mix Asphalt Binder Course, N50, or to Village Engineer's specifications.

   b. P.C.C. - 8" minimum thickness, tie into the existing pavement with #6 x 24" dowels, embedded 8" and staggered at 24" O.C.

7. All pavements will be replaced within one week of their removal.

8. All sidewalks will meet existing widths with a minimum thickness of four inches (4") except at any existing or proposed driveway(s) the thickness will be six inches (6"). Bedding will be a minimum of 4" of CA-6/Grade 8. All existing sidewalks and curb and gutter sections must be replaced unless waived by the Village Engineer.

9. All driveways will be replaced as follows:

Residential	Hot-Mix Asphalt	4"	Surface Course
		6"	CA-6, Grade 8 Stone
	Portland Cement Concrete	6"	Class SI
		4"	CA-6, Grade 8 Stone
Commercial	Hot-Mix Asphalt	6"	Surface Course
		8"	CA-6, Grade 8 Stone
	Portland Cement Concrete	8"	Class SI
		6"	CA-6, Grade 8 Stone

All manholes and buffalo boxes within a PCC driveway must be boxed out with 1" expansion material.

10. All parkways disturbed during construction will be restored with four inches (4") of topsoil and salt-tolerant sod.

11. All parkway and nearby trees on adjoining property will have guards to protect trees. A minimum of four (4) stakes shall be used and the fence shall be four (4) feet from the trunk of the tree.

12. All stumps must be removed to a minimum of one foot below proposed ground elevation.

13. Materials and installation for all water and sewer related work will be in accordance with the "Standard Specifications for Water and Sewer Main Construction in Illinois," current edition and the American Water Works Association except as modified to conform with Villa Park requirements.

14. All water main shutdowns will be performed by Village personnel only. A minimum of twenty-four (24) hours notice will be given to the Public Works Department prior to requested shutdown.

15. Existing water and sanitary sewer services will not be reused without a written approval from the Water/Wastewater Superintendent.

16. Band-seal flexible connectors (non-shear mission couplings) will be used to join pipes of dissimilar materials.

17. All PVC pipe joints will conform to ASTM D 3212 and shall be sealed by rubber gaskets conforming to ASTM F 477.

18. Down spouts and sump pumps will discharge at grade and be directed away from and at least ten feet (10') from adjacent properties.

19. Provide for the immediate removal of any mud and debris that is deposited onto the streets and sidewalks, which were caused by the construction.

20. Any soil erosion control measures that are deemed necessary by the Village Engineer will be implemented immediately by the contractor.

21. All footing and top of foundation elevations, and building setbacks and dimensions must be surveyed and a spot survey must be submitted and approved prior to any future construction.

22. All concrete curbs, sidewalk and driveway aprons require pre-inspection.

23. All construction sites will require a stone access road 10 feet wide with a 6" depth comprising of CA-1 stone.

24. Any activity that disturbs the pavement, vegetation or soil requires a DuPage County Stormwater Permit.

25. An RPZ valve is required for development other than single family residential, unless a written waiver is obtained from the Public Works Department.

26. Residential dual check valve backflow preventor (series 7) is required if a private well is located on the premises and is not capped be a certified well contractor.

27. All existing grades along property lines must be maintained.

28. Proposed grade changes will not cause surface water runoff to be diverted onto or detained on abutting or nearby property, will not significantly alter existing drainage patterns and will not increase or concentrate storm water runoff onto abutting or nearby property.

29. Downspout drainage must discharge at grade and must not drain onto or toward adjacent properties. Indicate on the plans the proposed downspout locations and their direction of drainage.

30. Drainage swales must have sufficient depth and width to direct storm water runoff toward a storm drainage system. Swales must meet existing grades at the property lines and have a minimum slope of 1%. Damming or displacing water onto adjacent properties is not permitted.

31. Proposed driveway must meet existing grades along the property line and then slope 1/8" to ¼" per foot away from the property line and toward the center of the driveway in order to keep water runoff on site and prevent runoff towards adjacent properties. Include details on the driveway and the property line (spot elevations at property line, centerline and at garage slab). If installing curb along the driveway make sure it will not dam water on adjacent properties. Show top of curb elevations and grades on adjoining property.

32. Landscaping that effectively changes yard elevations or existing drainage patterns will not be permitted unless a fill permit is issued by the Village.

WATER DISTRIBUTION

A. REFERENCE STANDARD:

1. American Water Works Association (AWWA), latest edition
2. American Society for Testing and Materials (ASTM), latest edition
3. Illinois State Plumbing Code, latest edition
4. Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, latest edition.
5. Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition

B. DUCTILE IRON PIPE

1. Conform to AWWA C151
2. Minimum Thickness:
   a. Class 52 standard thicknesses for mechanical and push-on joint piping.

3. **Push-On Joints:**
   a. Provide in accordance with AWWA C111, except gaskets will be neoprene or other synthetic rubber. Natural rubber not acceptable.

4. **Fittings:**
   a. Provide fittings required to provide complete and operational system
   b. Provide mechanical joint fittings with mega-lug retainers
   c. Fittings may be ductile or cast iron in accordance with AWWA C110 and AWWA C151
   d. Fitting Pressure Rating: 250 psi
   e. Retainer glands for mechanical joint fittings (mega lugs):
      1. Ductile iron.
      2. F1058 by Clow, Inc.
      1. Or equal in strength and restraining ability
      2. All below grade fasteners to be stainless steel and conform to the following standards: bolts and threaded rods – grade #304; nuts and washers – grade #300.

   f. Couplings for connecting new water mains to existing water mains:
      1. Ductile iron or cast iron
      2. F1208 by Clow, Inc.
      3. Or equal in strength and sealing ability
      4. Some existing water mains may have nonstandard external diameters, measure existing mains prior to ordering couplings
      5. All below grade fasteners to be stainless steel and conform to the following standards: bolts and threaded rods – grade #304; nuts and washers – grade #300.

   g. Tie rods and bands for restraining couplings:

1. Steel or malleable iron
2. Corrosion resistant alloy or coated to resist corrosion

3. Rod diameter: 3/4-inch minimum
4. Sufficient in strength and restraining ability to resist working pressures, test pressures, and surge pressures in water mains.

h. Cut-In Sleeves
1. Mueller H-841
2. Or equal in strength and sealing ability

i. Tapping Sleeve
1. Mueller H-615
2. Or equal in strength and sealing ability

j. Anchoring Tee
1. Clow F-1217
2. Or equal in strength and sealing ability

C. COPPER SERVICE PIPE

1. Conform to ASTM B88
2. Water service piping is to be 1" (min.) type "K" copper with no unions or couplings allowed unless length is in excess of 100 feet. Services are to be augured and pushed unless otherwise specified by ENGINEER.

3. Fittings:
a. Copper
b. Compression Type:
1. Mueller 110
2. Or equal

D. SERVICE CONNECTIONS

1. Corporation stops are to be Mueller H-15000 and may be installed either "wet" or "dry"
2. Curb stops are to be Mueller H-15154 Minneapolis pattern
3. Curb boxes are to be Mueller H-10302 Minneapolis pattern

E. WEDGE VALVES, 4" through 24"

1. Wedge valves will be in accordance with all applicable provisions of Section 42 of the "Standard Specifications for Water and Sewer Main Construction in Illinois, latest Edition," with the following exceptions:

a. To be WATEROUS resilient seat wedge valve Model 2500.

2. Vaults and boxes- All new Valves must be installed within a Valve Vault. Valve

Boxes require written approval from the Water Superintendent.

F. **TAPPING VALVE**

WATEROUS model 2500.

G. **FIRE HYDRANTS**

1. Waterous 5-1/4" Pacer Model Number WB-67-250 6 foot bury with auxiliary resilient seat wedge valve and valve box.

H. **THRUST BLOCKS**

1. Class si concrete in accordance with IDOT Standard Specifications for Road and Bridge Construction, Section 1020.

I. **CROSS CONNECTION CONTROL**

1. RPZ- required for development other than single family residential, unless a written waiver is obtained from the Public Works Department.

2. Residential dual check valve number 7 is required if a private well is located on the premises and is not capped be a certified well contractor.

J. **WATER METERS**

New Meters 5/8" x 3/4", 1" and 2" sizes, meter size to be one size less than diameter of service.
Rockwell/Sensus Model SR II/SR or approved equal.

K. **ABANDONMENT OF OLD WATER SERVICES**

Removal and disposal of old services including the Buffalo Box is required. Corporation stop has to be shut off at the main and service line removed. If corporation stop leaks, remove from main and use Smith Blair 261 Sleeves to abandon the existing service.

L. **WATER MAIN TESTING**

1. **PRESSURE TEST**

a. Test pressures will be as follows:

1. Water Main Test Pressure: 150 psi at lowest elevation in test section for 2 hours.

b. Test Procedure:

1. Add water to expel air.
2. Pressurizing equipment will include a regulator set to avoid over pressurizing and damaging otherwise acceptable line.
3. Make test connection, subject main to normal water pressure, and examine for leaks.
4. Apply test pressure by means of a force pump of such design and capacity that required pressure can be applied and maintained, without interruption for duration of the test.
5. Measure test pressure by means of tested and properly calibrated pressure gauge.
6. Maintain initial test pressure for sufficient length of time to permit inspecting piping under test, but not less than 30 minutes.
7. In case repairs are required, repeat pressure test until pipe installation conforms to specified requirements.
8. Perform final test at required test pressure for two hours.

c. Water main considered to have failed pressure test if applied pressure drops five psi or more.

2. **LEAKAGE TEST**

a. Conduct pressure test and initial leakage test concurrently. Final leakage test may be waived by OWNER if found unnecessary to add water during duration of final pressure test.

b. Leakage defined as quantity of water to supplied into newly laid pipe, or any section thereof, necessary to maintain specified leakage test pressure after main filled with water and entrapped air expelled.

1. Leakage shall not exceed number of gal/hr. as determined by following formula for rubber sealed joints:

$$Gph = \frac{ND\sqrt{P}}{7400}$$

Where:

Gph = gal/hr.
N = Number of joints under test
D = Nominal diameter of main in inches
P = Average pressure in psi gauge during leakage test

2. In case section under test contains joints of various diameters, allowable leakages will be sums of computed leakage for each size of joint.

c. Test Procedure:

1. Submit test section to approximately 1000 psi gauge pressure at highest elevation of water main under test.
2. Conduct final leakage test for one hour.
3. Repair defects and retest until acceptable test results obtained.

3. **DISINFECTING**

a. Disinfect in accordance with AWWA C601, Illinois State Plumbing Code, and local municipality code, or IDOTSPECS Article 561.04 and 561.05.

SEWERAGE AND DRAINAGE

A. REFERENCE STANDARDS:

1. American Society for Testing and Materials (ASTM), latest edition
2. American Water Works Association (AWWA), latest edition
3. Illinois State Plumbing code, latest edition.
4. Illinois Department of Transportation Standard Specification for Road and Bridge Construction, latest edition. (IDOT)
5. Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition.

B. MATERIALS (SANITARY MAINS, AND BUILDING SEWERS)

1. PVC Sewer Pipe and Fittings:

   a. 4 to 15 in. Dia.: ASTM D-2241, D-2672, D-2729, D-3033, or D-3034 SDR 26; PVC Type 1, Grade 1
   b. 18 to 27 in. Dia.: ASTM F679; PS46; PVC Type 1, Grade 1
   c. Fittings:
      1. The connection of the building sewer service into the public sewer main shall be made at a TEE/WYE fitting (installed with a construction of new mains), if such a branch is available at a suitable location. If there is no properly located TEE/WYE fitting at a main, a neat machined hole may be cut into the public sewer main and a "Sealtite" Type "S" (or approved equal) sewer saddle has to be used to receive the building sewer service, at an angle of about forty-five (45) degrees.

      2. Provide approved adapters for transitions to other types of pipe materials.

      3. No building sewer connection shall be made in a manhole unless such manhole is designed and constructed to receive such building sewer.

   d. Pipe Joints:
      1. ASTM D2564 or D1869.
      2. Field applied heat fusion or solvent welded joints between pipe sections, pipe and fittings or fitting components not permitted.
      3. Assembled joint shall pass performance tests as required in ASTM D3212.

   e. Pipe Markings:
      1. Manufacturer's name or trademark.
      2. Nominal pipe size.
      3. PVC cell classification.
      4. Legend, "Type PSM SDR-26 PVC Sewer Pipe" or "PS46 PVC Sewer

Pipe" as applicable.
5. ASTM D3034, ASTM F679 or ASTM D2241 as applicable.
6. Extrusion date, period of manufacture or lot number

f. Fitting Markings:
1. Manufacturer's name or trademark.
2. Nominal pipe size.
3. Material Designations: PVC.
4. PSM SDR 26 or PS46 as applicable.

g. Tapping Saddles:
1. Equivalent to Sealtite sewer tapping saddle system or TAPRITE "MD" Cut-ins manufactured by General Engineering Company.

h. Pipe Section Length:
1. 12 ft. minimum.
2. Use full sections to maximum practical extent.
3. No section shall be shorter than 3 ft. in length.

i. Flexible Boots:
1. Conform to ASTM C923.
2. Kor-N-Tee
3. PSX by Press Seal, Inc.
4. Or equal

C: REINFORCED CONCRETE PIPE (RCP) (STORM SEWER ONLY):

1. ASTM C76 with bell and spigot joints to strength class specified in Table following Article 550.03 of IDOT Standard Specifications for Road and Bridge Construction, except that pipes which will have less than four feet of cover shall be Class IV. The manufacturer shall mark exterior of each pipe section with pipe class.

2. Joints: Rubber gaskets conforming to ASTM C361.

3. Tapping Saddles: Equivalent to Sealtite sewer tapping saddle system or TAPRITE "MD" Cut-ins by General Engineering Company.

4. Fittings:
a. Conform to strength, water tightness, joint type, and other requirements of main line pipe to which joined.
b. Securely attach fabricated branches for wyes and tees to wall of pipe in watertight manner and flush with inside surface of pipe.
c. Tee Branches: Axis perpendicular to longitudinal axis of pipe.
d. Wye branches: Axis approximately 60 degrees or 45 degrees from longitudinal axis of pipe, measured from bell end.
e. Do not interrupt pipe reinforcement beyond radial distance of 3 in. outside fitting.
5. Lift holes not permitted.

6. Pipe Section Length:
   a. 7 ft. minimum.
   b. Use full sections to maximum practical extent.
   c. No section shall be shorter than 3 ft. in length.

D. DUCTILE IRON PIPE (DIP) (SANITARY, STORM AND COMBINED):

1. Material:
   a. Conform to AWWA C151 or equal.

2. Thickness:
   a. Conform to AWWA C150, Class 52 minimum.

3. Joint:
   a. Conform to AWWA C111.
   b. Push on type.
   c. Neoprene or other synthetic rubber gaskets resistant to sanitary sewage. Natural rubber gaskets not permitted.

4. Pipe Lining:
   a. Conform to AWWA C104.

5. Coating:
   a. Cement lining conforming to AWWA C104.
   b. Bituminous conforming to AWWA C151.

6. Pipe Section Length:
   a. 18 ft. nominal.
   b. Use full sections to maximum practical extent.

7. Fittings:
   a. Conform to AWWA C110.
   b. Push-on joints conforming to AWWA C111.
   c. Fitting pressure rating: 250 psi.
   d. Cement lining conforming to AWWA C104.
   e. Bituminous coat conforming to AWWA C151 on interior and exterior.

E. FLEXIBLE CONNECTORS:

1. Materials:
   a. Synthetic rubber base compound formulated to resist acids, alkalies, solvents, and greases encountered in sanitary or storm sewers and contain no reclaimed rubber (non-shear mission coupling).
   b. Test in accordance with ASTM D543 and not lose weight in 1.0 normal sulfuric acid, 1.0 normal hydrochloric acid or 1.0 normal nitric acid.
   c. Show no etching, blistering, distortion or other evidence of chemical or bacterial attack and shall show no cracking on rapid cooling.

d. Under ASTM D412, ultimate tensile strength shall exceed 7u50 psi at 80 degrees F and elongation shall exceed 150%.
e. Under ASTM D570, water absorption shall not exceed 4%.
f. Under ASTM D2240 Type A hardness shall exceed 55 in 5 sec reading.

2. Material used in fabricating compression bands shall be Type 316 stainless steel and bolts and nuts shall be Type 305 stainless steel in accordance with ASTM A167.

3. Completed Joint: conform to material and performance standards of ASTM C425 for resilient sewer pipe joints.

4. Acceptable Manufacturers:
   a. Clow
   b. FERNCO, Inc.
   c. Or equal

F: TESTING:

1. Pressure testing.

   A. All sanitary sewers including service lines shall be tested for; low pressure air test, exfilteration test, television testing and deflection test per standard specifications and the Village code of the Village of Villa Park and shall be approved by the Village before acceptance.

   B. All sanitary sewers shall be televised before acceptance. All costs shall be incidental to the work. Testing shall be witnessed and approved by the Village of Villa Park before final acceptance. The location of television inspection shall be as designated by the Village Engineer.

   C. If the sanitary sewer installation fails to meet the test requirements specified, the contractor shall determine the cause or causes of the defect and shall, at his own expense, repair or replace all materials and workmanship as may be necessary to comply with the test requirements.

C. Contractor shall submit certified copies of all reports of tests conducted by an independent laboratory before installation of PVC plastic pipe. Tests shall be conducted in accordance with standard method of test for "external loading properties of plastic pipe by parallel plate loading, @ ASTM standard D2412. Tests shall also be conducted in accordance with ASTM D3212 to demonstrate joint performance at 5% maximum diametric deflection of the spigot, as specified in ASTM D3212 specifications work.

MANHOLES AND INLETS

A. **REFERENCE STANDARDS:**

1. American Society for Testing and Materials (ASTM), latest edition.

2. Standard Specifications for Road and Bridge Construction by Illinois Department of Transportation, latest edition (IDOT SPECS).

3. Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition.

B. **MATERIALS:**

1. MANHOLES AND INLETS

   a. Pre-cast concrete conforming to ASTM C478.

      1. Sections and component parts to be marked by manufacturer with trade name and/or trademark and ASTM designation.

   b. Provide pre-cast concrete cone or flat tops as indicated on drawings.

   c. Elevations on drawings designate sewer elevations at center of structure. Adjust elevations of openings for incoming and outgoing pipes in accordance with sewer grades shown on drawings.

      1. Holes shall be smooth, radial to centerline of manhole, and perpendicular to manhole wall.
      2. Holes for Sanitary and Storm Pipes: circular.
      3. Holes shall be cast in initial pouring of section or shall be cored in after concrete cured. Broken out holes or holes cut into green concrete are not permitted.

   d. Sanitary/Combined Manholes:

      1. Integral Base: 6 inches nominal thickness.
      2. Pipe Connection: Flexible synthetic rubber boot meeting ASTM C923.
         a. Cast-in or pressed-on types permitted.
         b. Cast-in type boot shall be installed in initial pouring of manhole section.
      3. Provide channels in invert to direct flows from incoming to outgoing pipe.
      4. Section Joints:
         a. ASTM C361 with synthetic rubber O-ring.

b. Tongue and groove.
c. ASTM C-877, Type II, External Joint Seals.

5. Eccentric manhole opening.
6. Optional precast concrete flat slab top refer to IDOT Standard 2354-2

e. Storm Manholes:

1. Integral Base: 6 inches nominal thickness.
2. Pipe Connection: Circular hole 1-1/2 inches to 3 inches larger than actual outside diameter of sewer pipe being connected.
3. Provide invert channels in storm manholes as specified in Paragraph 2.01.D.3.
4. Section Joints: Tongue and groove.
5. Eccentric manhole opening.
6. Optional precast concrete flat slab top refer to IDOT Standard 2354.

f. Inlets.

1. Type "A".

a. Integral Base: 4-inch nominal thickness.
b. Pipe Connection: circular hole 1-1/2 inches to 3 inches larger than actual outside diameter of sewer pipe.

2. Type "B".

a. Integral Base: 6-inch nominal thickness.
b. Pipe Connection: Circular hole 1-1/2 inches to 3 inches larger than actual outside diameter of sewer pipe.
c. Provide invert channels as specified in Paragraph 2.01.D.3.
d. Section Joints: tongue and groove.
e. Eccentric opening on cone.
f. Optional pre-cast concrete flat slab top refer to IDOT Standard 2354-2.

3. Type "C".

a. Integral Base: 6-inch nominal thickness.
b. Pipe Connection: Circular hole 1-1/2 inches to 3 inches larger than actual outside diameter of sewer pipe.
c. Provide invert channels as specified in Paragraph 2.01.D.3.
d. Section Joints: tongue and groove.
e. Eccentric opening on cone.
f. Optional precast concrete flat slab top refer to IDOT Standard 2354-2.

g. Wall Thickness:

1. For 2 ft.-0 in. Nominal ID: 3-in. minimum wall.
2. For 3 ft.-0 in. Nominal ID: 4-in. minimum wall.
3. For 4 ft.-0 in. Nominal ID: 5-in. minimum wall.
4. For 5 ft.-0 in. Nominal ID: 6-in. minimum wall.

2 ADJUSTING RINGS

a. Pre-cast concrete with steel reinforcement sufficient to prevent cracking in normal handling and use.

b. Mating Faces:

1. Smooth.
2. Parallel.
3. Free from cracks, chips, spall or casting irregularities interfering with watertight mating to structure top or casting.
4. Provide grooves in faces to contain extrudable preformed plastic gasket material when possible.

c. Thickness Range:
1. 2 inch nominal minimum.
2. 12 inch nominal maximum.

3 GASKET MATERIALS

a. Flexible Boots:
1. Conform to ASTM C923.
2. Synthetic rubber resistant to sanitary sewage.
3. Cast-in or pressed-on types acceptable.

b. O-Ring Gaskets:
1. Conform to ASTM C361.
2. Synthetic rubber resistant to sanitary sewage.

c. Extrudable Preformed Plastic Gasket:
1. Butyl rubber.
2. EZ Stick by Press Seal Gasket Company, or equal.

d. Internal Manhole Chimney Seal
1. **Conform to ASTM C-923**
2. **Cretex or approved equal.**
3. **The seal shall remain flexible throughout a 25-year design life, allowing repeated vertical movement of the frame of not less than 2 inches and repeated horizontal movement of the frame of not less than 2 inch. The sleeve portion of the seal shall be corrugated with a minimum unexpended vertical height of either 6 or 9 inches and shall be capable of being mechanically locked to the frame base flange.**

The sleeve and extension shall have a minimum thickness of 3/16 inches and shall be made from a high quality rubber compound conforming to the applicable requirements of ASTM C-923, with a minimum 1500 psi tensile strength, a maximum 18% compression set, and a hardness (durometer) of 48+- 5. The bands shall be fabricated from 16-gauge stainless steel conforming to ASTM A-240, Type 304, with no welded attachments and shall have a minimum adjustment range of 2 diameter inches. Any screws, bolts, or nuts used to lock the band in place shall be stainless steel conforming to ASTM F-593 and 594, Type 304

e. External Joint Sealing Bands

1. **Conform to ASTM C-877**
2. **Type II MacWrap or approved equal.**
3. **External joint seals shall consist of a collar 9 inches wide with an outer layer of polyethylene, with a minimum tensile strength of 4000 psi and a minimum tear resistance of 1500 psi, and an under layer of rubberized mastic that is reinforced with the collar 3/4 inches from the edge. The straps shall be confined in tubes that isolate them from the mastic and allow them to slip freely when mechanically tightened and locked around the manhole. The collar shall be furnished with a minimum 6 inches overlap and a closing flap to cover any remaining exposed strap.**

d. Materials to be new and provided in unopened containers where applicable.

4 CASTINGS

a. Conform to ASTM A48, Class 30.
b. Free from cracks, holes, swells, and cold shuts and patches.
c. Do not coat or paint.
d. Provide structural capacity, hydraulic capacity, water tightness, interior clearance dimensions, approximate vertical height, and range of adjustment equal to:

1. Combined, Sanitary and Water Manhole Frame and Water Resistant Cover:
   a. Neenah R-1713 heavy duty frame and self-sealing solid lid.
   b. East Jordan Iron Works (EJIW) 1050 frame, watertite assembly, and 1020 Type A solid cover
   b. Or approved equal.

2. Storm Manhole Frame and Solid Cover:
   a. Neenah R-1713 heavy duty frame and self-sealing solid lid.
   b. East Jordan Iron Works (EJIW) 1050 frame, watertite assembly, and 1020 Type A solid cover
   b. Or approved equal.

3. Curb Inlet with Bicycle Resistant Grate:
    a. Neenah R-3278-AL (W/B-6.12 curb and gutter).
    b. Neenah R-3278-AL (W/M-4.12 curb and gutter).
    c. Neenah R-3205 (at depressed curb).
    d. Or approved equal.

4. Label lids "Sanitary", "Water", or "Storm" as applicable.

5 CAST-IN PLACE CONCRETE

a. Class SI concrete in accordance with Section 637 of IDOT SPECS.
b. Use for field poured manhole bases, inverts, and plugs for existing inlet leads being abandoned.
c. Cement shall be ASTM C150, Type 1 - resistant to attack by sanitary sewage.
d. Reinforcement Bars: IDOTSPECS Section 508.

6 NON-SHRINK GROUT

a. Use for grouting concrete masonry units.
b. Five Star Grout, U.S. Grout Corporation or equal.

C. EXECUTION

1 SANITARY AND COMBINED MANHOLES

a. Place where shown on drawings and in accordance with details.
b. Excavate in accordance with Section 02220.
c. Connect pipes using flexible boots in accordance with boot manufacturers instructions.
    1. Center pipe in boot.
    2. Take special care to ensure connections are watertight.
d. Place O-ring gasket or double row of extrudable perform plastic gasket between manhole sections
e. Place appropriate top section, cone (depth > 6 feet) or flattop, (depth < 6 feet).
f. Place external Sealing Bands as shown on the detail at each joint between manhole sections in accordance with the manufacturer=s instructions.
g. **Grout all lift holes from the inside and outside with a non-shrink grout, prior to backfilling.**
h. Place two adjusting rings maximum on manhole top. Thickness of adjusting rings shall be 2 inches to 12 inches as necessary to bring completed manhole to elevation shown on drawings. Maximum height of adjustment shall be 12 inches.
    1. Place extrudable preformed plastic gasket material between adjusting ring and manhole top, and between adjusting ring and manhole

frame.

2. Avoid use of overly thick gasket material such as will likely produce after-settlement of manhole frame due to long-term cold flow of gasket materials.
3. For not grooved adjusting ring, provide two rows of 2 inch by 2 inch or 3/4 inch by 3/4-inch gasket material.
4. For grooved adjusting rings, provide size gasket material recommended by ring manufacturer. Single or multiple grooved rings permitted. Where multiple grooved rings used, place gasket material in each groove.

i. **Install manhole frame and cover and External Manhole Chimney Seal as shown on the detail, with extensions where needed to cover the entire chimney area, in accordance with the manufacturer's instructions.**

j. Backfill in accordance with Section 02220.

k. Pour manhole invert.

1. Provide poured-in-place channels (if manholes not furnished with pre-cast inverts) to direct flows from incoming pipes to outgoing pipes. Channels shall smoothly blend flows.
2. Make channel horseshoe shaped. Width and depth equal to the size of the outlet sewer.
3. To maintain flexibility of pipe connection boot, plug annular space between pipe and boot that falls in area where invert to be poured with extrudable preformed plastic gasket material. Plug shall prevent concrete from entering space between pipe and boot.
4. Invert channels may be placed any time after manhole base section (and connecting pipe) is back filled.

2 STORM MANHOLE AND INLETS

a. Construct in accordance with combined manholes except as follows:

1. Pipe connection:
   a. Center pipe in hole through base section and pack annular space with extrudable preformed plastic gasket material. Seal connection on interior and exterior with non-shrink grout.
   b. Take care that annular space is uniform around pipe and gasket material evenly distributed.
   c. Ensure connection is watertight.

2. Joint between pre-cast concrete sections:
   a. Provide one or two rows extrudable preformed plastic gasket material between sections as necessary for watertight joint.

3. Abandoning existing catch basins:
   a. Where drawings so indicate, remove existing catch basins for installation of new inlets and inlet leads. This removal shall be incidental to the cost of the installation of the new inlet.

b. Plug existing catch basin leads with Class SI concrete, in accordance with IDOTSPECS, at end of lead as exposed for removal of existing inlet and at connection of existing lead to combined sewer manhole. A minimum depth of plug shall be equal to inside diameter of existing lead.

c. Where drawings so indicate and as directed by ENGINEER, abandon existing catch basins that will not be replaced by new inlets. These catch basins shall be abandoned as follows:

1. Plug existing catch basin leads as outlined in Paragraph 3.02.A.3.b.
2. Remove existing castings and inform OWNER so that it can be removed from the job site.
3. Remove existing structure to a point at least 3 inches under the proposed sub-grade.
4. Fill catch basin with CA-6/Grade 8 material and compact in accordance with Section 02220.

4. Installing new inlets:

a. Locate approximately where shown on drawing. Exact location will be selected in field by ENGINEER.
b. ENGINEER will determine grades of new inlets.

3 CASTINGS

a. All castings shall remain the property of OWNER following their removal. Removed castings shall be stockpiled at one location onsite by the CONTRACTOR. The OWNER shall remove the castings they wish to keep; the remaining castings shall be the property of the CONTRACTOR and shall be responsible to

4 FIELD QUALITY CONTROL

a. Pre-cast reinforced concrete bases, risers, tops, adjusting rings, and iron castings shall be subject to rejection on account of failure to conform to any specification requirements.

b. Individual sections of bases, risers, and tops may be rejected because of:

1. Fractures or cracks passing through bell, except for single end crack not exceeding joint depth.
2. Excessive patching.
3. Grouted pipe openings.
4. Defects indicating imperfect proportioning, mixing, and molding.
5. Surface defects indicating honeycombed or open texture.
6. Damaged ends, where such damage would prevent making

satisfactory joint.

7. Continuous crack having surface width of 0.01 inches or more and extending for length of 12 inches or more, regardless of position.

c. Installation may be rejected because of:

1. Use of individual components subject to rejection.
2. Failure to conform to installation requirements.
3. Visible infiltration.
4. Variation from true vertical alignment by more than 2% of depth.
5. Variations in pipe and rim elevations greater than 0.5 inches from elevations shown on plans.

VILLAGE OF VILLA PARK
EROSION CONTROL NOTES
Revised 09/2004

1. THE GENERAL CONRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL EROSION CONTROL DEVICES INCLUDING, BUT NOT LIMITED TO, SILT FENCE AROUND THE CONSTRUCTION LIMITS, STONE ACCESS DRIVE AND FILTER FABRIC PROTECTORS IN ALL STORM MANHOLES AND/OR INLETS PER DETAILS.
2. IF THERE IS NO GENERAL CONTRACTOR, IT SHALL BE THE RESPONSIBILITY OF THE EXCAVATION/GRADING CONTRACTOR TO INSTALL ALL SOIL EROSION CONTROL DEVICES.
3. THE CONTRACTOR RESPONSIBLE FOR THE INSTALLATION OF THE EROSION CONTROL DEVICES SHALL MAKE AN INSPECTION OF THE INSTALLATION ON A WEEKLY BASIS OR FOLLOWING A RAINFALL OF ½ INCH OR MORE OVER A 24-HOUR PERIOD. A RECORD OF SUCH INSPECTIONS SHALL BE KEPT ONSITE AT ALL TIMES UNTIL FINAL ACCEPTANCE OF THE WORK.
4. IF ADDITIONAL EROSION CONTROL MEASURES NOT SHOWN ON THE PLANS ARE REQUIRED TO STOP OR PREVENT EROSION OR ARE REQUIRED BY ANY AUTHORITY HAVING JURISDICTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL SUCH REQUIRED DEVICES.
5. SEE STANDARD VILLAGE OF VILLA PARK DETAILS FOR SILT FENCE AND FILTER FABRIC PROTECTOR REQUIREMENTS.
6. ALL STATE AND LOCAL EROSION CONTROL MAESURES SHALL BE IMPLEMENTED AND MAINTAINED THROUGHOUT CONSTRUCTION.
7. ALL SILT FENCE SHALL BE INSTALLED AND APPROVED BY THE VILLAGE OF VILLA PARK PRIOR TO CONSTRUCTION.

APPENDIX

A

IRMA
CONTRACTUAL INSURANCE GUIDELINES

I. INSURANCE REQUIREMENTS

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

MINIMUM SCOPE OF INSURANCE

Coverage shall be at least as broad as:

A. Insurance Services Office Commercial General Liability occurrence form CG 0001 with the member named as additional insured, on a form at least as broad as the attached sample endorsement including ISO Additional Insured Endorsement CG 2010 (Exhibit A), CG 2026 (Exhibit B).

CG2037 - Completed Operations – (Exhibit C)
Required if box is checked ☒ ; and

B. Owners and Contractors Protective Liability (OCP) policy with the member as insured
Required if box is checked ☒ ; and

C. Insurance Service Office Business Auto Liability coverage form number CA 0001, Symbol 01 "Any Auto."

D. Workers' Compensation as required by the Workers' Compensation Act of the State of Illinois and Employers' Liability insurance.
Coverage required for employee exposure to lead, if box is checked ☒

E. Builder Risk Property Coverage with member as loss payee
Required if box is checked ☐**.**

F. Environmental Impairment/Pollution Liability Coverage for pollution incidents as a result of a claim for bodily injury, property damage or remediation costs from an incident at, on or migrating beyond the contracted work site. Coverage shall be extended to Non-Owned Disposal sites resulting from a pollution incident at, on or mitigating beyond the site; and also provide coverage for incidents occurring during transportation of pollutants.
Required if box is checked ☐**.**

MINIMUM LIMITS OF INSURANCE

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

A. Commercial General Liability: $1,000,000 combined single limit per occurrence for bodily injury, and property damage and $1,000,000 per occurrence for personal injury. The general aggregate shall be twice the required occurrence limit. Minimum General Aggregate shall be no less than $2,000,000 or a project/contract

specific aggregate of $1,000,000.

B. Owners and Contractors Protective Liability (OCP): $1,000,000 combined single limit per occurrence for bodily injury and property damage.

C. Business Automobile Liability: $1,000,000 combined single limit per accident for bodily injury and property damage.

D. Workers' Compensation and Employers' Liability: Workers' Compensation coverage with statutory limits and Employers' Liability limits of $500,000 per accident.

E. Builder's Risk: Shall insure against "All Risk" of physical damage, including water damage (flood and hydrostatic pressure not excluded), on a completed replacement cost basis.

F. Environmental Impairment/Pollution Liability: $1,000,000 combined single limit per occurrence for bodily injury, property damage and remediation costs.

DEDUCTIBLES AND SELF-INSURED RETENTIONS

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

OTHER INSURANCE PROVISIONS

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

A. General Liability and Automobile Liability Coverages

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

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

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

4. The Contractor's insurance shall contain a Severability of Interests/Cross Liability clause or language stating that Contractor's insurance shall apply

separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

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

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

7. The contractor and all subcontractors hereby agree to waive any limitation as to the amount of contribution recoverable against them by member. This specifically includes any limitation imposed by any state statute, regulation, or case law including any Workers' Compensation Act provision that applies a limitation to the amount recoverable in contribution such as Kotecki v. Cyclops Welding.

B. Workers' Compensation and Employers' Liability Coverage

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

1. NCCI Alternate Employer Endorsement (WC 000301) in place to insure that workers' compensation coverage applies under contractor's coverage rather than member's if the member is borrowing, leasing or in day to day control of contractors employee.
Required if box is checked ☐.

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

1. Professional liability insurance with limits not less than $1,000,00 each claim with respect to negligent acts, errors and omissions in connection with professional services to be provided under the contract, with a deductible not-to-exceed $50,000 without prior written approval.

2. If the policy is written on a claims-made form, the retroactive date must be equal to or preceding the effective date of the contract. In the event the policy is cancelled, non-renewed or switched to an occurrence form, the Contractor shall be required to purchase supplemental extending reporting period coverage for a period of not less than three (3) years.

3. Provide a certified copy of actual policy for review.

4. Recommended Required Coverage (architect, engineer, surveyor, consultant): Professional liability insurance that provides indemnification and defense for injury or damage arising out of acts, errors, or omissions in providing the following professional services, but not limited to the following:

   a. Preparing, approving or failure to prepare or approve maps, drawings, opinions, report, surveys, change orders, designs or specifications;

   b. Providing direction, instruction, supervision, inspection, engineering

services or failing to provide them, if that is the primary cause of injury or damage.

D. All Coverages

Each insurance policy required shall have the member expressly endorsed onto the policy as a Cancellation Notice Recipient. Should any of the policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

ACCEPTABILITY OF INSURERS

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

VERIFICATION OF COVERAGE

Contractor shall furnish the member with certificates of insurance naming the member, its officials, employees, agents and volunteers as additional insureds (Exhibit D), and with original endorsements affecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements are to be received and approved by the member before any work commences. The following additional insured endorsements may be utilized: ISO Additional Insured Endorsements CG 2010 (Exhibit A) or CG 2026 (Exhibit B), and CG 2037 (Exhibit C) – Completed Operations, where required. The member reserves the right to request full certified copies of the insurance policies and endorsements.

SUBCONTRACTORS

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

ASSUMPTION OF LIABILITY

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

II. INDEMNITY/HOLD HARMLESS PROVISION

To the fullest extent permitted by law, the Contractor hereby agrees to defend, indemnify and hold harmless the member, its officials, employees and agents against all injuries, deaths, loss, damages, claims, patent claims, suits, liabilities, judgments, cost and expenses, which may in anywise accrue against the member, its officials, agents and employees, arising in whole or in part or in consequence of the performance of this work by the Contractor, its employees, or subcontractors, or which may in anywise result therefore, except that arising out of the sole legal cause of the member, its employees or agents, the Contractor shall, at its own expense, appear, defend and pay all charges of attorneys and all costs and other expenses arising therefore or incurred in connections

therewith, and, if any judgment shall be rendered against the member, its officials, employees and agents, in any such action, the Contractor shall, at its own expense, satisfy and discharge the same.

Contractor expressly understands and agrees that any performance bond or insurance policies required by this contract, or otherwise provided by the Contractor, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the member, its officials, employees and agents as herein provided.

The Contractor further agrees that to the extent that money is due the Contractor by virtue of this contract as shall be considered necessary in the judgment of the member, may be retained by the member to protect itself against said loss until such claims, suits, or judgments shall have been settled or discharged and/or evidence to that effect shall have been furnished to the satisfaction of the member.

III. SAFETY/LOSS PREVENTION

Safety/Loss Prevention Program Requirements

- Successful bidder will provide written confirmation that a safety/loss prevention program was in place at least 90 days prior to submitting the bid proposal.

- Evidence of completed employee safety training can be provided.

Regulatory Requirements

- Successful bidder must comply with all applicable laws, regulations, and rules promulgated by any Federal, State, County, Municipal and/or other governmental unit or regulatory body now in effect or which may be in effect during the performance of the work. Included within the scope of the laws, regulations, and rules referred to in this paragraph but in no way to operate as a limitation, are Occupational Safety & Health Act (OSHA), Illinois Department of Labor (IDOL), Department of Transportation, all forms of traffic regulations, public utility, Intrastate and Interstate Commerce Commission regulations, Workers' Compensation Laws, Prevailing Wage Laws, the Social Security Act of the Federal Government and any of its titles, the Illinois Department of Human Rights, Human Rights Commission, or EEOC statutory provisions and rules and regulations.

- Evidence of specific regulatory compliance will be provided by bidder, if required by owner.

EXHIBIT A

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY
CG 20 10 07 04

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

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

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s):	Location(s) Of Covered Operations
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. **Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

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

   □

EXHIBIT B

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY
CG 20 26 07 04

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – DESIGNATED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

A. In the performance of your ongoing operations; or

B. In connection with your premises owned by or rented to you.

EXHIBIT
C

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY
CG 20 37 07 04

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s):	Location And Description Of Completed Operations
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

Exhibit D (Example)

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

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

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

PRODUCER	CONTACT NAME: Producer/Ins. Broker Contact Info.
Name of Insurance Broker	PHONE (A/C, No, Ext): FAX (A/C, No):
	E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A :	Name of Insurance Company	Completed
INSURER B :	Name of Insurance Company	Completed
INSURER C :		
INSURER D :		
INSURER E :		
INSURER F :		

INSURED: Name of Contractor

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE OCCUR Owners & Cont.Prot. (OCP) if requested GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC	Y	Y	Policy Number Inserted	Policy Start Date	Policy Start Date	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 50,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 1,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS HIRED AUTOS SCHEDULED AUTOS NON-OWNED AUTOS			Policy Number Inserted	Policy Start Date	Policy Start Date	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
A	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION $	Y	Y	Policy Number Inserted	Policy Start Date	Policy Start Date	EACH OCCURRENCE AGGREGATE	$ Per Request $ Per Request
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	Y	Policy Number Inserted	Policy Start Date	Policy Start Date	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 500,000 $ 500,000 $ 500,000
	Professional Liability (other specialty coverages as requested)			Policy Number Inserted	Policy Start Date	Policy start Date	$1,000,000 per occurrence or as requested	

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

List project number, location and description.
No additional endorsements limit coverage to additional insured beyond terms of actual additional insured endorsement (CG 2010 or CG 2026). Coverage to additional insured is primary. Additional Insured: Member, its officials, employees, agents and volunteers.
* Member named as cancellation notice recipient.

CERTIFICATE HOLDER

Name of Member

CANCELLATION

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

AUTHORIZED REPRESENTATIVE

Signature of authorized insurance company representative

APPENDIX

B

Ordinance No. 3733

AN ORDINANCE OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS AMENDING THE REQUIREMENTS OF BIDDERS FOR CONSTRUCTION PROJECTS

WHEREAS, the Village of Villa Park (the "*Village*") is a duly organized and validly existing non home-rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State; and,

WHEREAS, section 8-9-1 of the Illinois Municipal Code (65 ILCS 5/8-9-2) allows the Village to require competitive bidding after advertising for bids in the manner prescribed by ordinance; and,

WHEREAS, the President and Board of Trustees desire to adopt purchasing procedures to provide for additional requirements of bidders for construction projects to have active apprenticeship and training programs approved and registered with the United States Department of Labor's Bureau of Apprenticeship and Training and to have bidders show three similar projects they constructed within the last five years.

NOW, THEREFORE, BE IT ORDAINED by the President and Board of Trustees of the Village of Villa Park, DuPage County, Illinois, as follows:

Section 1. That Section 2-219 of the Villa Park Municipal Code, as amended, be and is hereby amended by placing the existing text as subsection A. and adding a new subsection B. to read as follows:

"B. A responsible bidder for the construction of public works projects shall meet and submit evidence of compliance with the following requirements:

(1) All applicable laws prerequisite to doing business in the State of Illinois,
(2) A federal employer tax identification number or social security number,
(3) Provision of Section 2000(e) of Chapter 21, Title 42 of the United States Code and Federal Executive Order No. 11246 as amended by Executive Order No. 11375 (known as the Equal Opportunity Employer provisions),
(4) Certificates of insurance indicating the following coverage's: general liability, worker's compensation, completed operations, automobile, hazardous occupation and product liability
(5) Compliance with all provisions of the Illinois Prevailing Wage Act, including wages, medical and hospitalization insurance and retirement for those trades covered in the Act,
(6) The bidder and all bidder's sub-contractors must participate in active apprenticeship and training programs approved and registered with the United States Department of Labor's Bureau of Apprenticeship and Training for each of the trades of work contemplated under the proposed contract,
(7) All contractors and sub-contractors are required to file certified payrolls as specified in Illinois Pubic Act 94-0515, and follow all provisions of the Employee Classification Act (820 ILCS 185/1 et seq.), and

(8) All bidders must provide three (3) projects of a similar nature constructed in the immediate past five (5) years with the name, address and telephone number of the contact person having knowledge of the project along with three (3) references (name, address, and telephone number) with knowledge of the integrity and business practices of the bidder."

Section 2. This Ordinance shall be in full force and effect upon its passage, approval, and publication as provided by law.

Passed this 11 day of February, 2013.

AYES: ALL

NAYS: Aiello Bulthuis

ABSENT: _____

Approved this 11 day of February, 2013.

Village President

Attest:

Village Clerk

VILLAGE OF VILLA PARK CORPORATE SEAL DU PAGE COUNTY, ILL.

Published in pamphlet form:

2-11, 2013

APPENDIX

C

SOIL AND MATERIAL CONSULTANTS, INC.
8 W. COLLEGE DR. • ARLINGTON HEIGHTS, IL 60004 • 847-870-0544 • FAX 847-870-0661

December 12, 2007
File No. 19175

Mr. Richard Salerno
Village of Villa Park
20 South Ardmore Avenue
Villa Park, IL 60181

Re: Pavement Investigation
2008 Street Improvements
Villa Park, Illinois

Dear Mr. Salerno:

We are submitting our report for the pavement investigation completed on the streets included in the 2008 Street Improvement Program in the Village of Villa Park, Illinois.

The investigation was requested to determine existing pavement sections and conditions for use in determination of viable maintenance or reconstruction solutions.

SCOPE OF THE INVESTIGATION

The field investigation included visual examination of the pavement surfaces and adjacent site conditions. A total of 32 test locations were established as shown on the enclosed location sketches. The pavement section was cored to determine material types and thicknesses.

Pavement materials obtained during the field investigation were returned to our laboratory for review and testing. The results are included in summary with this report.

EXISTING CONDITIONS

Michigan Avenue – Division Street to St. Charles Road

Visual examination of the pavement reveals areas of significant distress. These include cold joint cracking, meandering cracks, alligatoring, material raveling, potholes and settlement. Patching of previously distressed areas was noted. The poor surface condition prevents effective water run-off in some areas. Standing water was observed along the pavement after the recent rain and snow melt.

In this area cores 1 thru 5 were performed. The pavement cores found the existing pavement section includes 0.75 inches to 1.5 inches of bituminous concrete over 5.25 inches to 7.0 inches of a concrete base. The concrete was noted to be fair condition with full depth recovery at most locations cored. The exception was at location 1 where only 25% recovery was obtained. The total pavement section was found to range in thickness from 6.5 inches to 8.5 inches.

Harvard Street – Division Street to the North End

Visual examination of this portion of Harvard Street showed the pavement to be in good condition with only a few minor cracks. The good surface condition allowed for effective water run-off.

Core 6 was performed in this area and found the existing pavement section was made up of 5.75 inches of bituminous concrete over 9.0 inches of crushed limestone base. The total pavement section at this location had a thickness of 14.75 inches.

Harvard Street – Division Street to Elm Street

Visual examination of the pavement reveals areas of significant distress. These include cold joint cracking, meandering cracks, alligatoring, material raveling, potholes and settlement. Patching of previously distressed areas was noted. The poor surface condition prevents effective water run-off in some areas.

Cores 7 and 8 were performed in this area. Pavement cores 7 and 8 found the existing pavement section includes 2.0 inches to 2.25 inches of bituminous concrete over 6.25 inches to 7.25 inches of concrete. The concrete base was noted to be poor condition with 50% recovery at the locations cored. The total pavement section along this section of Harvard Street was found to range in thickness from 8.5 inches to 9.25 inches.

Park Boulevard – Villa Avenue to Riverside Drive

Visual examination of the pavement reveals areas of significant distress. These include cold joint cracking, meandering cracks, alligatoring, material raveling, potholes and settlement. Patching of previously distressed areas was noted. A utility trench with failing surface conditions was noted between Monterey Avenue and Riverside Drive. The poor surface condition prevents effective water run-off in some areas.

In this area cores 9 thru 14 were performed. The pavement cores found the existing pavement section includes 1.25 inches to 1.75 inches of bituminous concrete over 6.25 inches to 9.5 inches of concrete. The concrete base was noted to be fair condition with 90% to full depth recovery at most locations cored. The total pavement section was found to range in thickness from 7.5 inches to 11.25 inches.

Yale Avenue – Park Boulevard to Madison Street

Visual examination of the pavement reveals areas of significant distress. These include cold joint cracking, alligatoring and settlement. Patching of previously distressed areas was noted. The poor surface condition prevents effective water run-off in some areas. Standing water was observed along the pavement edge after the recent rain and snow melt.

Cores 15 thru 22 were performed. The pavement cores found the existing pavement section at these locations includes 1.5 inches to 2.25 inches of bituminous concrete over 5.25 inches to 6.75 inches of concrete. The concrete base was noted to be poor to fair condition with 10% to full depth recovery at locations cored. The total pavement section was found to range in thickness from 7.0 inches to 9.0 inches.

Euclid Avenue – Highland Avenue to Madison Street

Visual examination of the pavement reveals areas of significant distress. These include cold joint cracking, alligatoring, pot holes and settlement. Patching of previously distressed areas was noted. The poor surface condition prevents effective water run-off in some areas. Standing water was observed along the pavement edge after the recent rain and snow melt.

In this area cores 23 thru 29 were performed. The pavement cores found the existing pavement section includes 1.25 inches to 2.75 inches of bituminous concrete over 5.75 inches to 8.0 inches of concrete. The concrete base was noted to be fair condition with 80% to full depth recovery at most locations cored. The total pavement section was found to range in thickness from 7.25 inches to 9.5 inches.

Myrtle Avenue – Julia to Harrison Street

Visual examination of the pavement reveals areas of distress. These include meandering cracks, alligatoring, wheel track rutting and settlement. Patching and crack filling of previously distressed areas was noted. The poor surface condition prevents effective water run-off in some areas. This allows water to be present in the base during periods of freeze-thaw.

Cores 30 thru 32 were performed in this area. The pavement cores found the existing pavement section at these locations includes 3.75 inches to 4.5 inches of bituminous concrete over 9.25 inches to 10.75 inches of crushed limestone base. A reflective control fabric was found beneath the most recent surface overlay at all three locations. The total pavement section was found to range in thickness from 13.0 inches to 14.75 inches.

PAVEMENT REHABILITATION

The concrete base streets which include Michigan Avenue, Harvard Avenue (south of Division Street), Park Blvd., Yale Avenue, and Euclid Avenue could be considered for a grind, patch and overlay program. We would recommend the complete removal of the built-up overlays in order to inspect the underlying concrete to determine the areas which need patching. Full depth N/70 binder should be used for the patching. Extensive patching should be anticipated in the areas where poor recovery of the concrete was noted, (Harvard Avenue, the north portion of Michigan Avenue, portions of Yale Avenue, and Park Avenue west of Riverside Drive). A leveling binder should then be placed along with a minimum of 2.0 inches of N/50 Bituminous Concrete Surface.

It is our understanding that Myrtle Street is to be reconstructed after the new water main and sanitary sewer improvements are completed. The new pavement section will include 2.0 inches of bituminous concrete surface and 8.0 inches of bituminous concrete binder.

CONCLUSION

This report has been prepared to assist in initial determination of existing pavement sections and supporting soil conditions. Locally varying conditions may be present between test locations.

Any questions concerning the information presented in this report should be directed to our office.

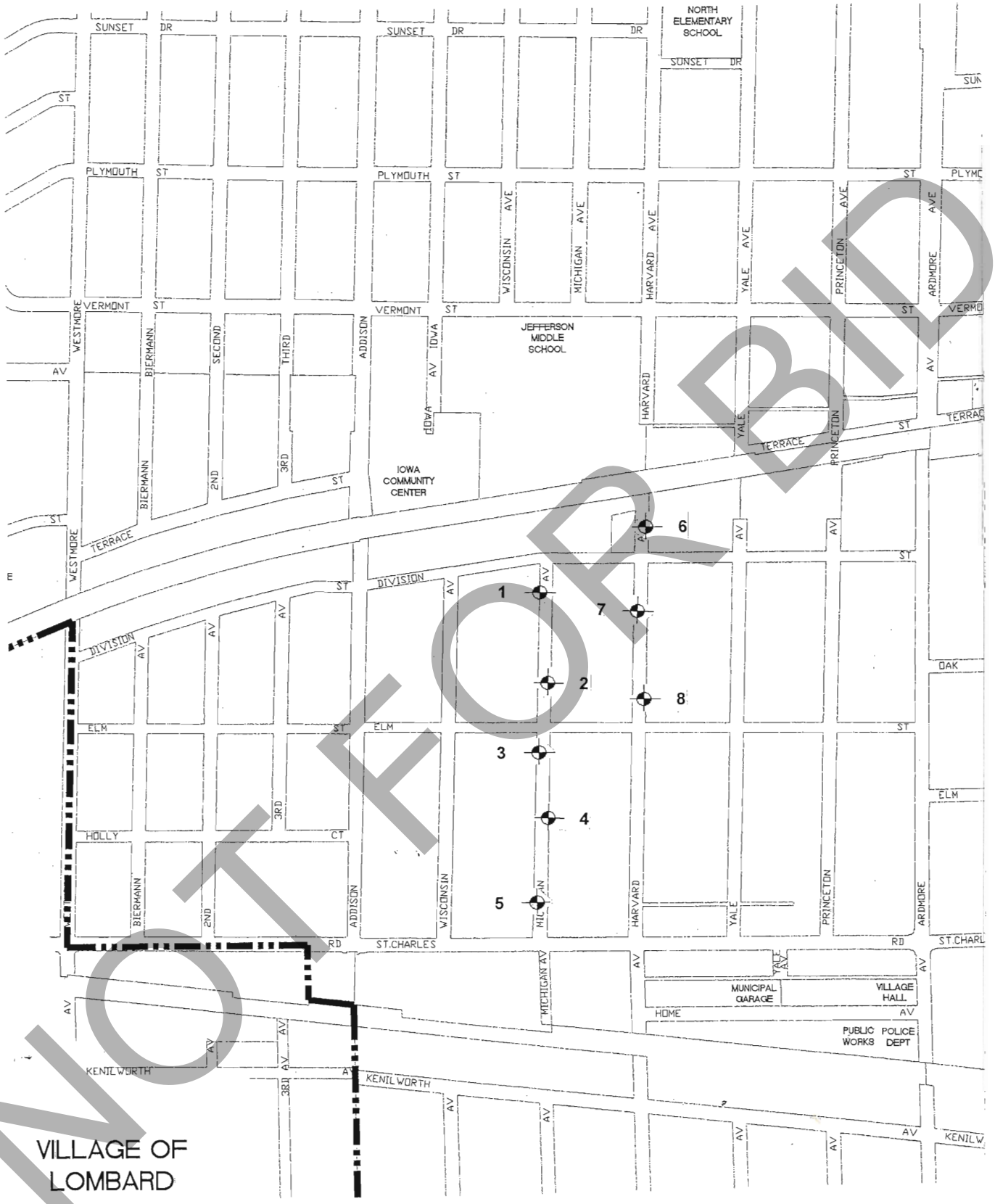
Very truly yours,

SOIL AND MATERIAL CONSULTANTS, INC.

Thomas P. Johnson, P.E.
Project Engineer

Gordon J. McKavanagh, P.E.
Director of Engineering

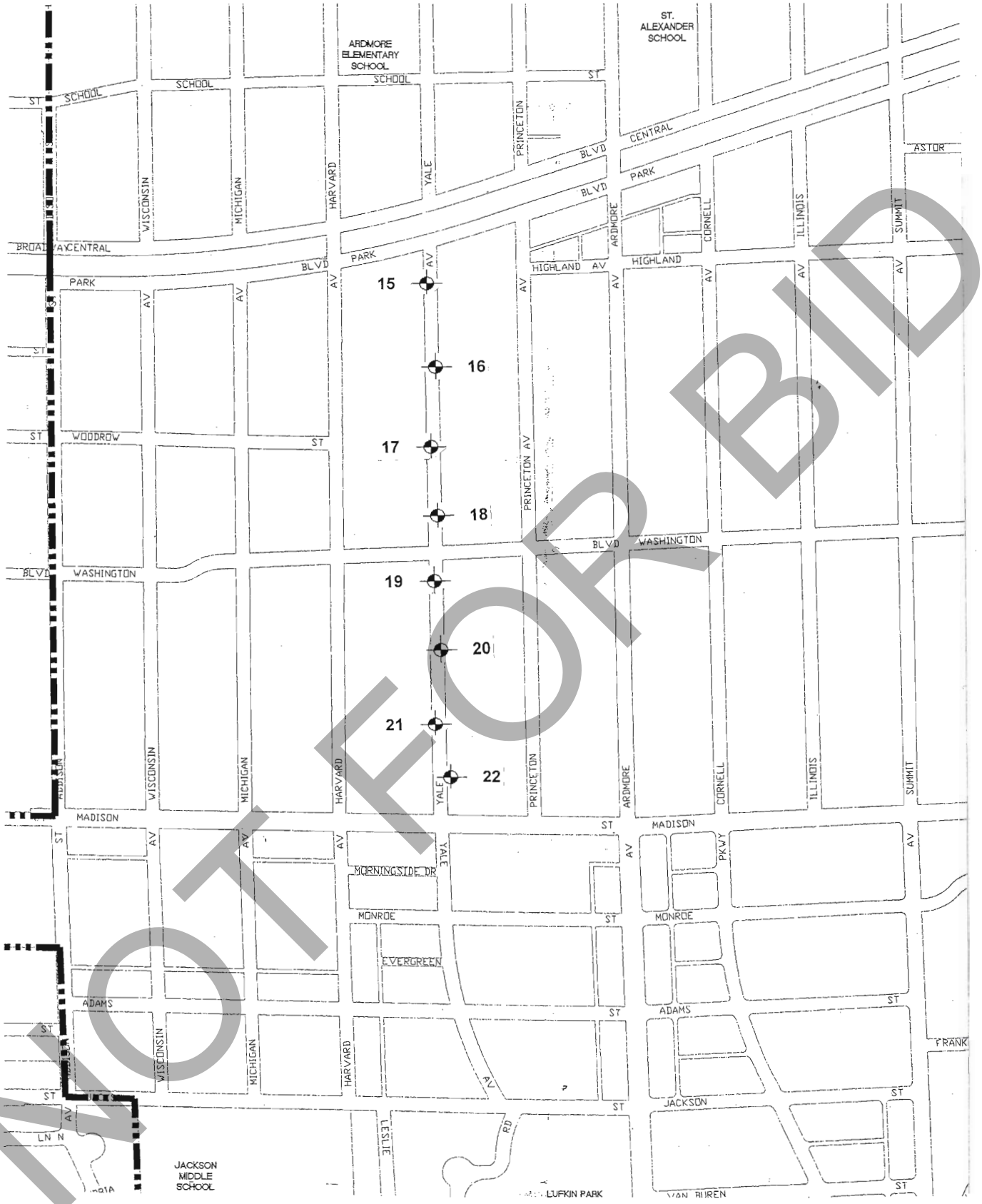
TPJ/GJM:dl
Enc.



VILLAGE OF LOMBARD

N

SMC	SOIL AND MATERIAL CONSULTANTS, INC.	LOCATION SKETCH
Client:	VILLAGE OF VILLA PARK	
Project:	2008 STREET IMPROVEMENTS	
Location:	VILLA PARK, ILLINOIS	
File No. 19175	Date: 12-6-07	Scale: NONE



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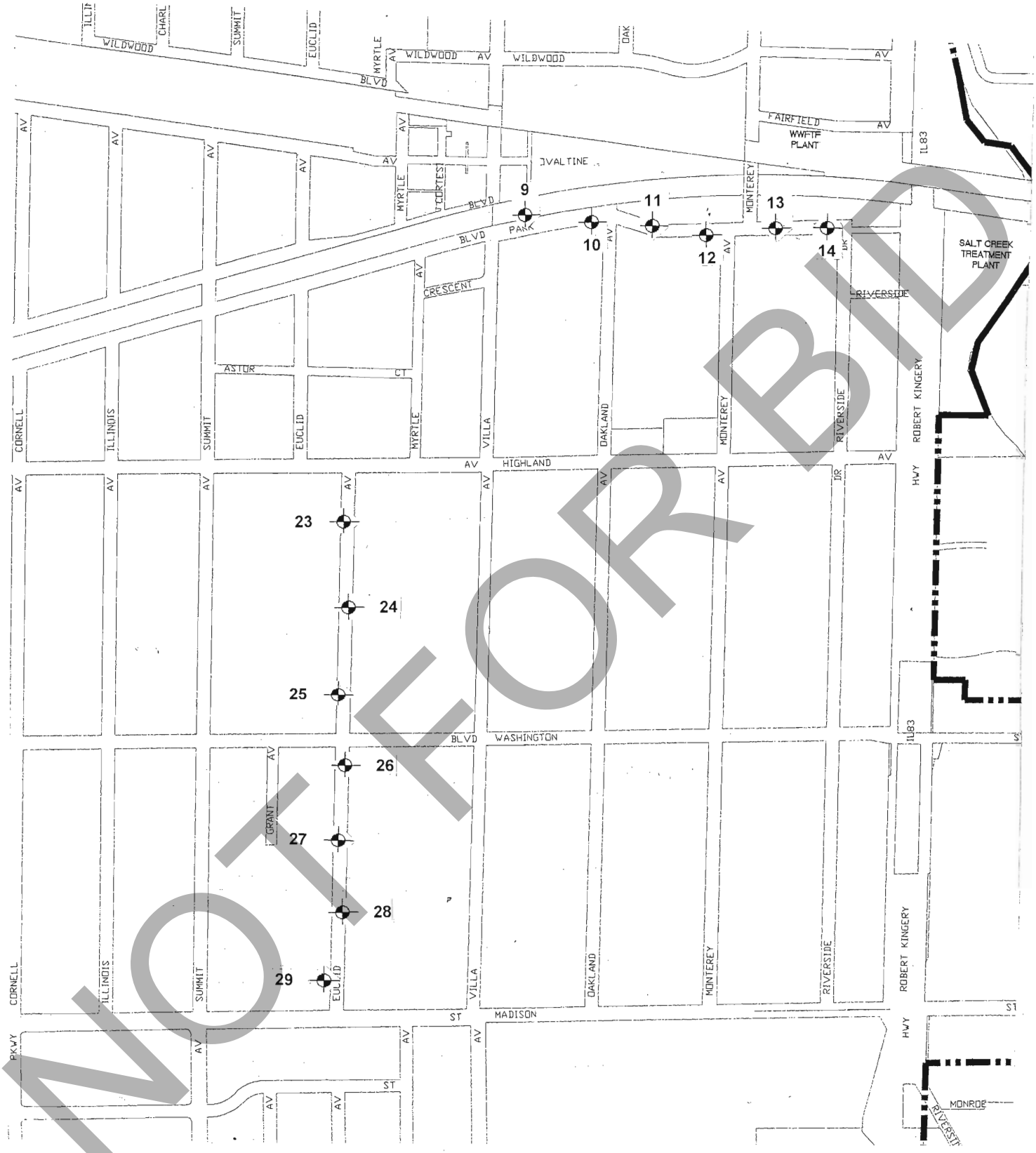
SMC	SOIL AND MATERIAL CONSULTANTS, INC.	LOCATION SKETCH
Client:	VILLAGE OF VILLA PARK	
Project:	2008 STREET IMPROVEMENTS	
Location:	VILLA PARK, ILLINOIS	
File No. 19175	Date: 12-6-07	Scale: NONE



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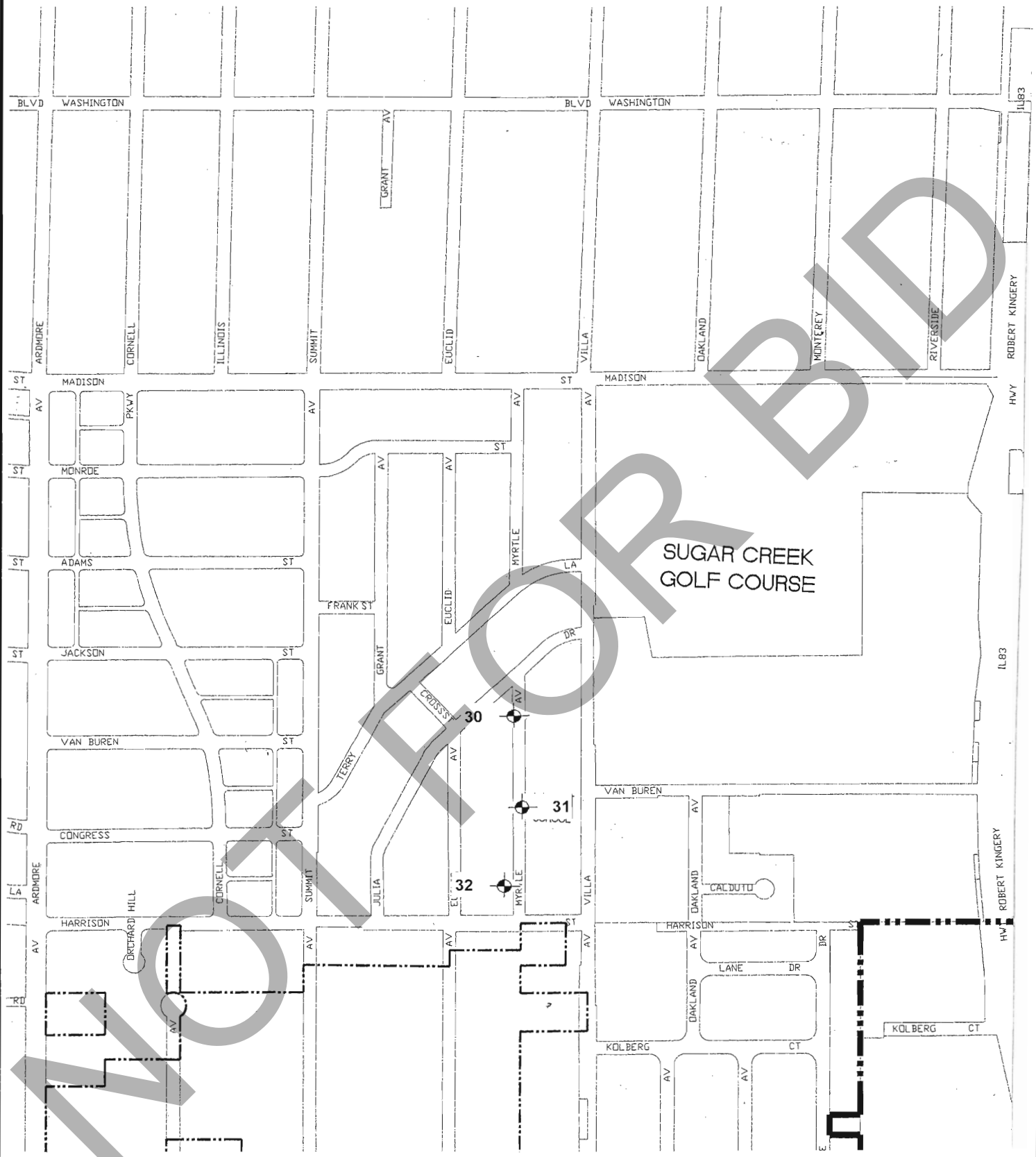
SMC	SOIL AND MATERIAL CONSULTANTS, INC.	LOCATION SKETCH
Client:	VILLAGE OF VILLA PARK	
Project:	2008 STREET IMPROVEMENTS	
Location:	VILLA PARK, ILLINOIS	
File No. 19175	Date: 12-6-07	Scale: NONE



N

SMC	SOIL AND MATERIAL CONSULTANTS, INC.	LOCATION SKETCH
Client:	VILLAGE OF VILLA PARK	
Project.	2008 STREET IMPROVEMENTS	
Location:	VILLA PARK, ILLINOIS	
File No. 19175	Date: 12-6-07	Scale: NONE

SOIL AND MATERIAL CONSULTANTS, INC.

8 WEST COLLEGE DRIVE
ARLINGTON HEIGHTS, IL 60004

OFFICE: (847) 870-0544
FAX: (847) 870-0661

Date: 12/3/07

File No.: 19175

CORE LOG

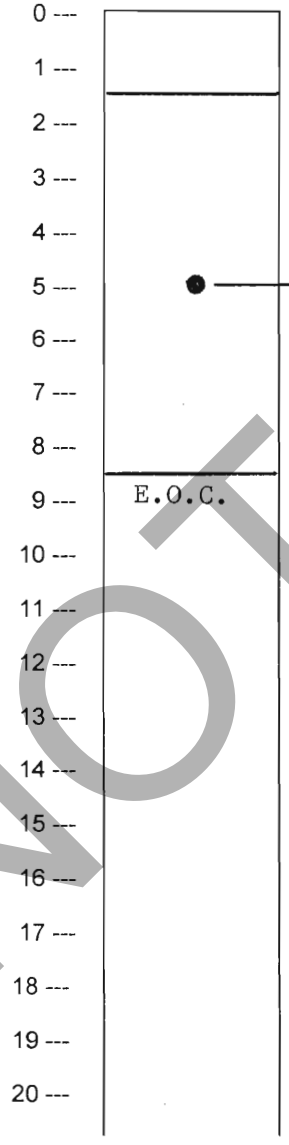
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 1 Work Done By: DB & JL

Location of Core: 250 Michigan Street, 2' W. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
1-1/2" Bituminous concrete - surface (failed)	Partial
7-0" Concrete (failed) 25% Recovery	Partial
Wire mesh	
Total 8-1/2"	

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File No.: 19175

CORE LOG

Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 2 Work Done By: DB & JL

Location of Core: 215 Michigan Street, 3' E. of CL

Description of Core Wall:

Comments:

(Depth, In.)

	Type of Material	Recovery
0	0-3/4" Bituminous concrete - surface	Full
1	0-3/4" Bituminous concrete - surface	Full
2		
3		
4	Wire mesh	
5	5-1/4" Concrete	Full
6		
7	Total 6-3/4"	
	E.O.C.	
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

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File No.: 19175

CORE LOG

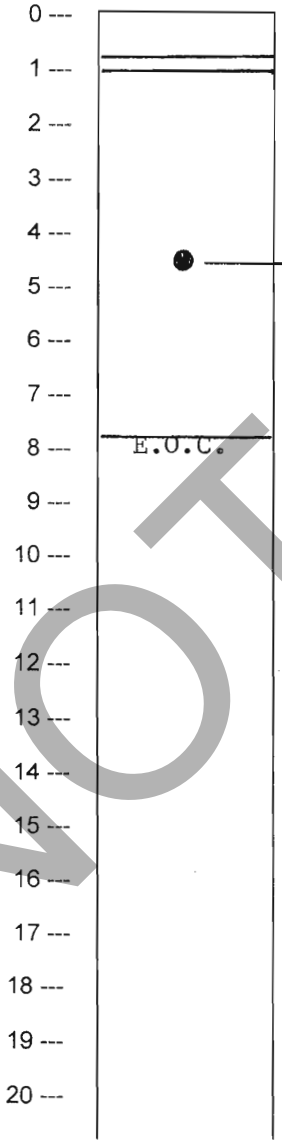
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 3 Work Done By: DB & JL

Location of Core: 120 Michigan Street, 5' W. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
0-3/4" Bituminous concrete - surface	Full
0-1/4" Bituminous concrete - surface	Full
6-3/4" Concrete	Full
Wire mesh	
Total 7-3/4"	

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File No.: 19175

CORE LOG

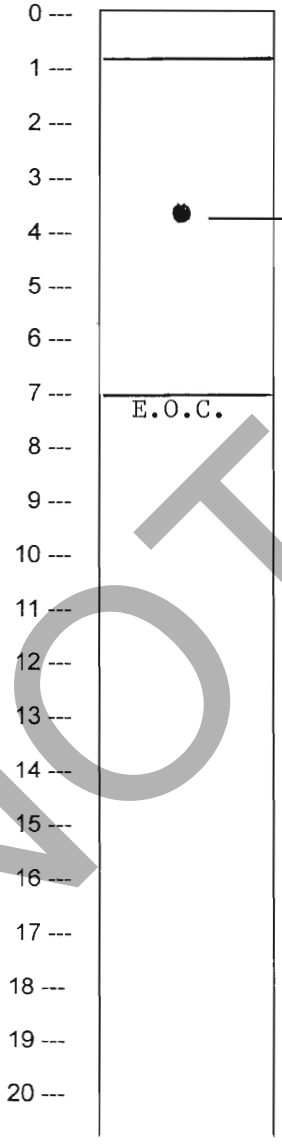
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 4 Work Done By: DB & JL

Location of Core: 29 Michigan Street, 6' E. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
0-3/4" Bituminous concrete - surface	Full
6-1/4" Concrete	Full
Wire mesh	
Total 7-0"	

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File No.: 19175

CORE LOG

Client: Village of Villa Park Reference 2008 Street Improvements

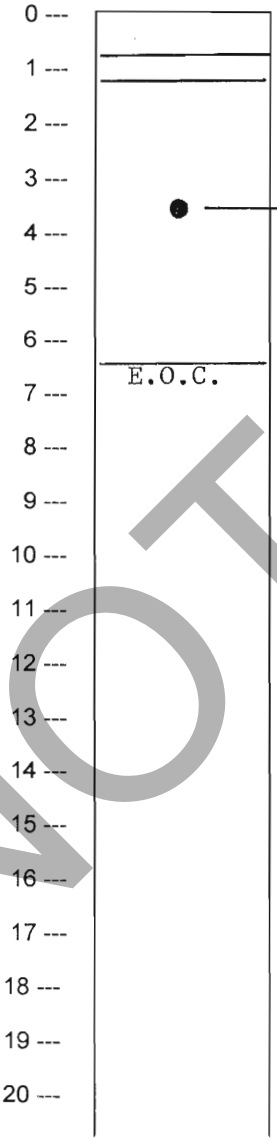
Core No: 5 Work Done By: DB & JL

Location of Core: 16 Michigan Street, 7' W. of CL

Description of Core Wall:

Comments:

(Depth, In.)



Type of Material	Recovery
0-3/4" Bituminous concrete - surface	Full
0-1/2" Bituminous concrete - surface	Full
5-1/4" Concrete	Full
Wire mesh	
Total 6-1/2"	

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CORE LOG

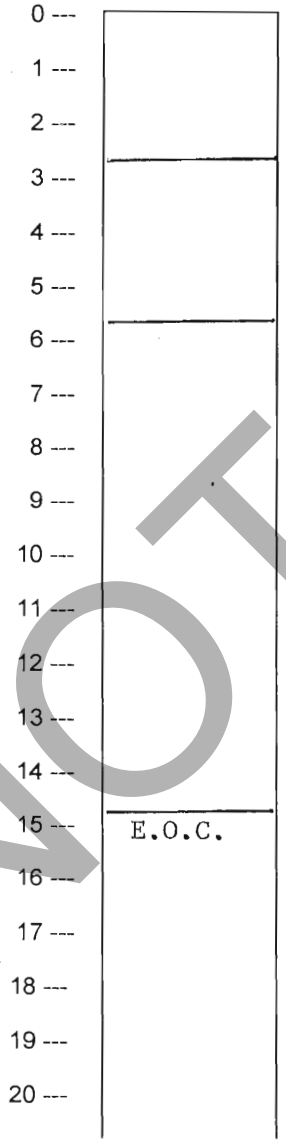
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 6 Work Done By: DB & JL

Location of Core: Harvard Street, 100' N. of Division, 6' E. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
2-3/4" Bituminous concrete - surface	Full
3-0" Bituminous concrete - binder	Full
9-0" Crushed limestone	Partial
Total 14-3/4"	

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CORE LOG

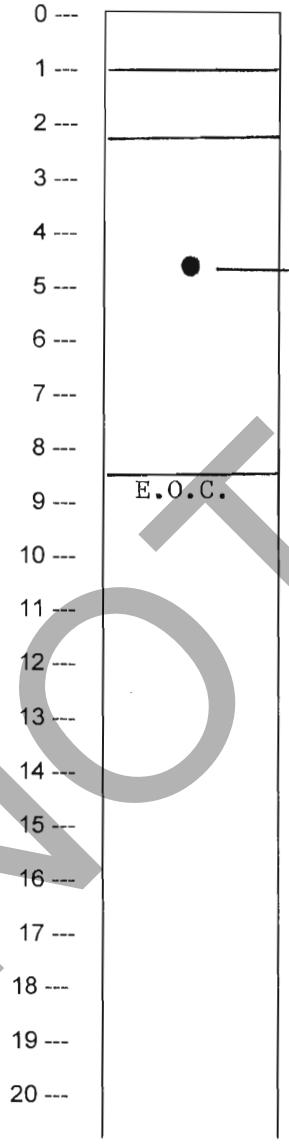
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 7 Work Done By: DB & JL

Location of Core: 248 Harvard Street, 5' W. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
1-0" Bituminous concrete - surface	Full
1-1/4" Bituminous concrete - surface	Full
Wire mesh	
6-1/4" Concrete (failed) 50% Recovery	Partial
Total 8-1/2"	

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CORE LOG

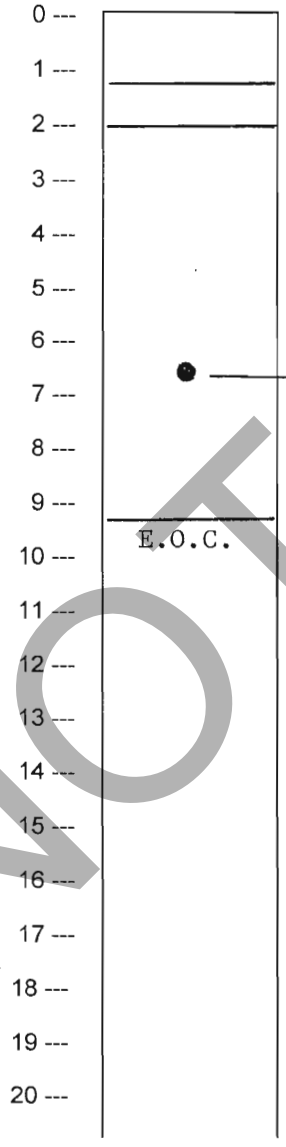
Client: Vilage of Villa Park Reference 2008 Street Improvements

Core No: 8 Work Done By: DB & JL

Location of Core: 216 Harvard Street, 6' E. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
1-1/4" Bituminous concrete - surface	Full
0-3/4" Bituminous concrete - surface	Full
7-1/4" Concrete (failed) 50% Recovery	Partial
Wire mesh	
Total 9-1/4	

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File No.: 19175

CORE LOG

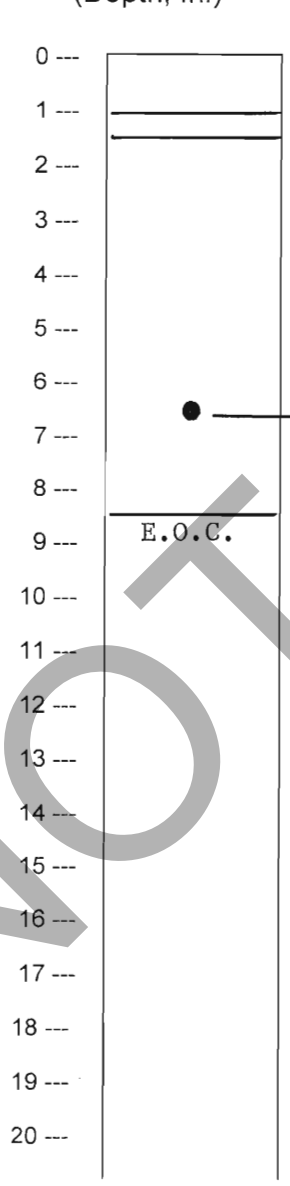
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 9 Work Done By: DB & JL

Location of Core: Park Blvd., 140' E. of Villa Avenue, 6' N. of CL

Description of Core Wall:

Comments:



Type of Material		Recovery
1-0"	Bituminous concrete - surface	Full
0-1/2"	Bituminous concrete - surface	Full
7-0"	Concrete	Full
	Wire mesh	
	Total 8-1/2"	

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CORE LOG

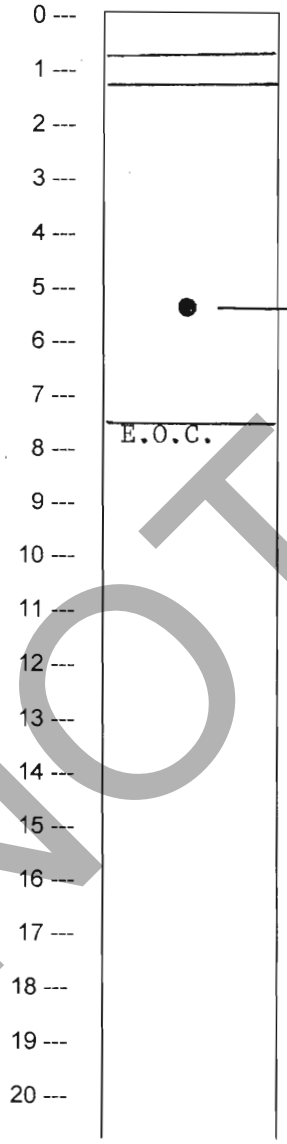
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 10 Work Done By: DB & JL

Location of Core: Park Blvd., 50' W. of Oakland Avenue, 6' S. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
0-3/4" Bituminous concrete - surface	Full
0-1/2" Bituminous concrete - surface	Full
6-1/4" Concrete	Full
Wire mesh	
Total 7-1/2"	

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CORE LOG

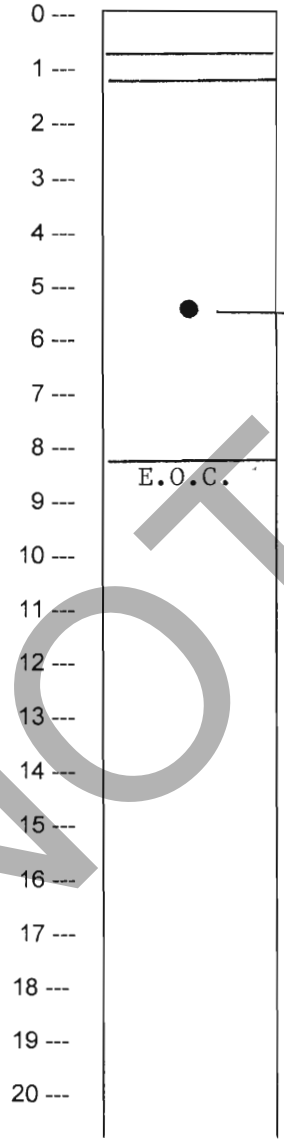
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 11 Work Done By: DB & JL

Location of Core: 526 Park Blvd, 7' N. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
0-3/4" Bituminous concrete - surface	Full
0-1/2" Bituminous concrete - surface	Full
7-0" Concrete	Full
Wire mesh	
Total 8-1/4"	

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File No.: 19175

CORE LOG

Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 12 Work Done By: DB & JL

Location of Core: 539 Park Blvd., 5' S. of CL

Description of Core Wall:

Comments:

(Depth, In.)	Type of Material	Recovery
0		
1	1-1/2" Bituminous concrete - surface	Full
2		
3		
4	7-0" Concrete	Full
5		
6	Wire mesh	
7		
8	Total 8-1/2"	
9 E.O.C.		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

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File No.: 19175

CORE LOG

Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 13 Work Done By: DB & JL

Location of Core: 616 Park Blvd., 5' N. of CL

Description of Core Wall:

Comments:

(Depth, In.)	Type of Material	Recovery
0		
1	1-3/4" Bituminous concrete - surface	Full
2		
3		
4		
5	9-1/2" Concrete	Full
6		
7		
8		
9		
10	Wire mesh	
11	Total 11-1/4"	
	E.O.C.	
12		
13		
14		
15		
16		
17		
18		
19		
20		

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CORE LOG

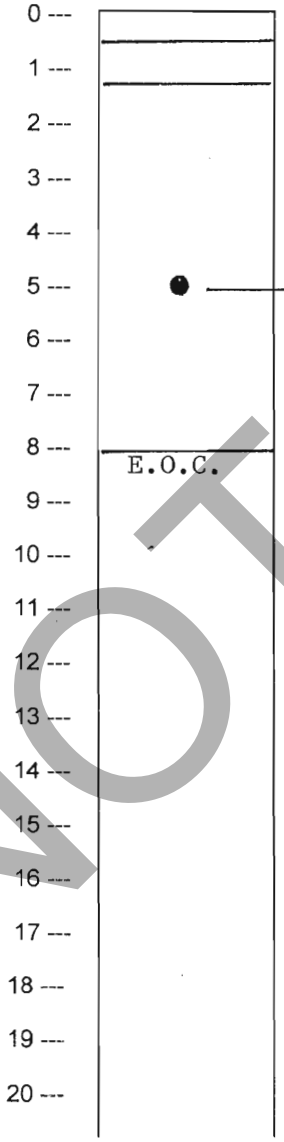
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 14 Work Done By: DB & JL

Location of Core: 635 Park Blvd., 2' S. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
0-1/2" Bituminous concrete - surface	Full
0-3/4" Bituminous concrete - surface	Full
6-3/4" Concrete 90% Recovery	Partial
Wire mesh	
Total 8-0"	

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File No.: 19175

CORE LOG

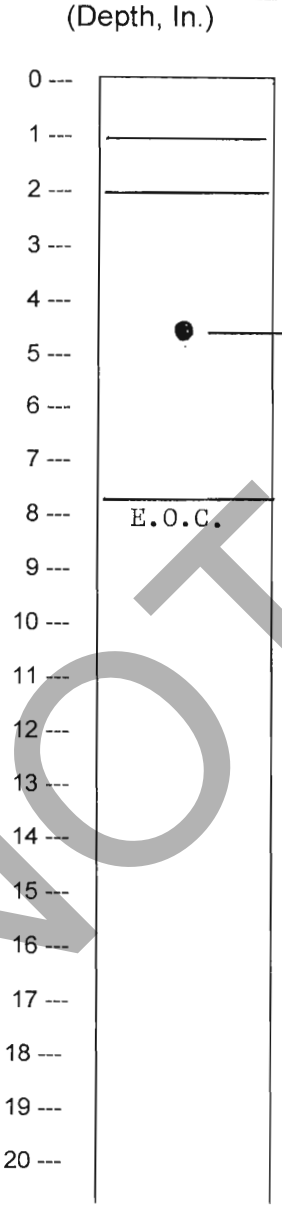
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 15 Work Done By: DB & JL

Location of Core: 410 Yale Street, 5' W. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
1-0" Bituminous concrete - surface	Full
1-0" Bituminous concrete - surface	Full
5-3/4" Concrete	Full
Wire mesh	
Total 7-3/4"	

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File No.: 19175

CORE LOG

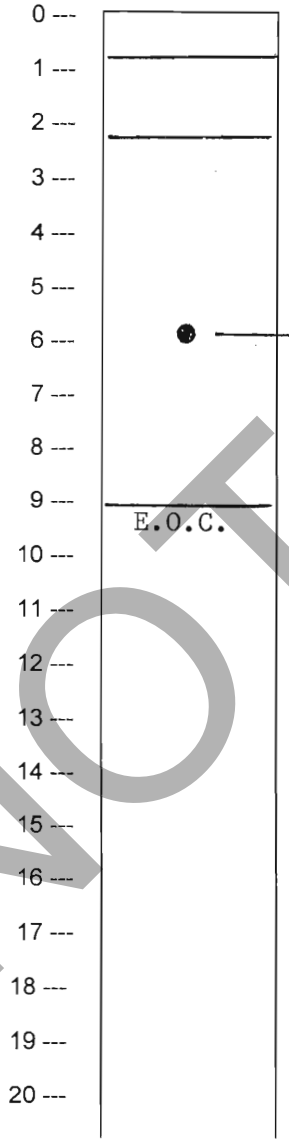
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 16 Work Done By: DB & JL

Location of Core: 441 Yale Street, 7' E. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
0-3/4" Bituminous concrete - surface	Full
1-1/2" Bituminous concrete - surface (failed)	Partial
6-3/4" Concrete	Full
Wire mesh	
Total 9-0"	

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File No.: 19175

CORE LOG

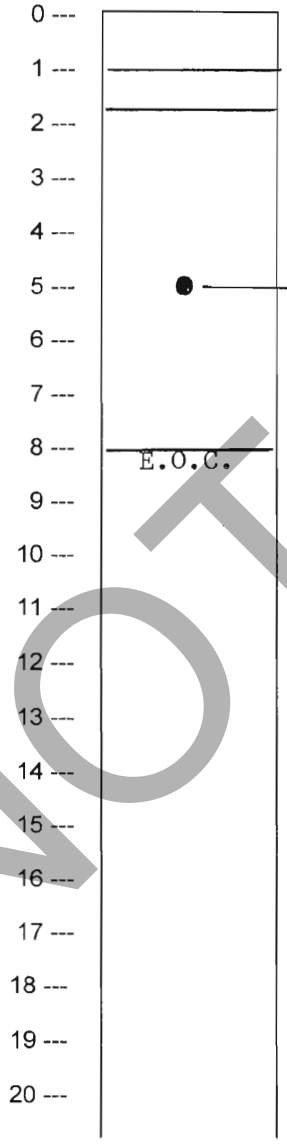
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 17 Work Done By: DB & JL

Location of Core: 508 Yale Street, 6' W. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
1-0" Bituminous concrete - surface	Full
0-3/4" Bituminous concrete - surface	Full
6-1/4" Concrete (failed) 10% Recovery	Partial
Wire mesh	
Total 8-0"	

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CORE LOG

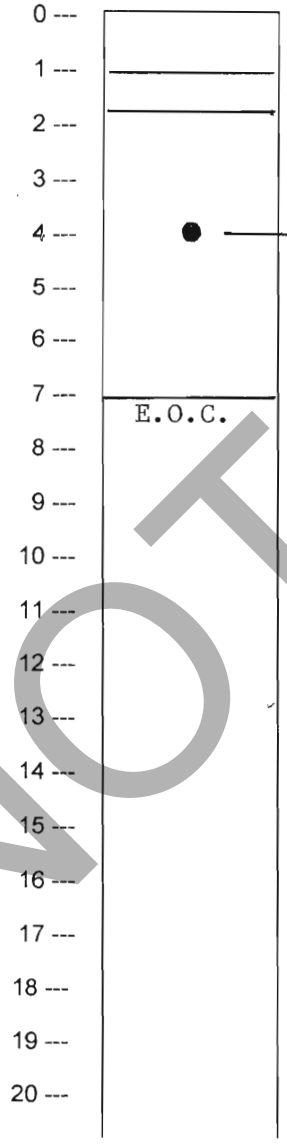
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 18 Work Done By: DB & JL

Location of Core: 537 Yale Street, 7' E. of CL

Description of Core Wall:

Comments:



Type of Material		Recovery
1-0"	Bituminous concrete - surface	Full
0-3/4"	Bituminous concrete - surface	Full
	Wire mesh	
5-1/4"	Concrete 90% Recovery	Partial
Total 7-0"		

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CORE LOG

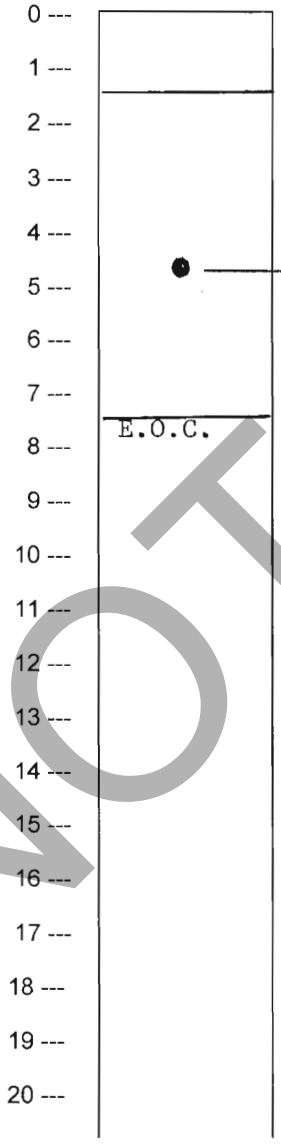
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 19 Work Done By: DB & JL

Location of Core: 613 Yale Street, 5' W. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
1-1/2" Bituminous concrete - surface (failed)	Partial
6-0" Concrete 90% Recovery	Partial
Wire mesh	
Total 7-1/2"	

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File No.: 19175

CORE LOG

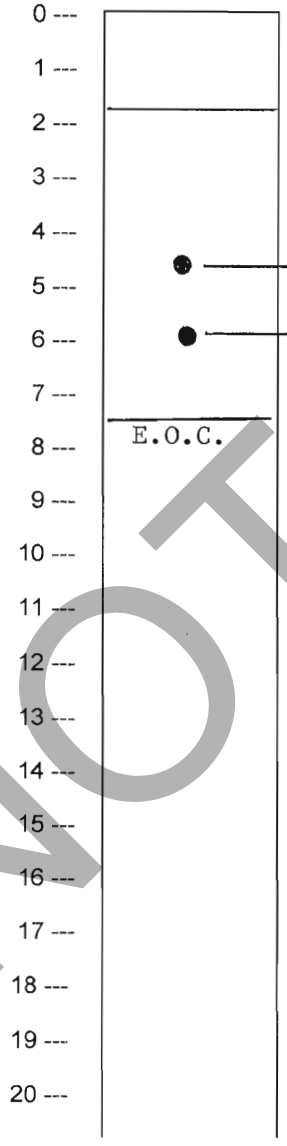
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 20 Work Done By: DB & JL

Location of Core: 651 Yale Street, 6' E. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
1-3/4" Bituminous concrete - surface	Full
5-3/4" Concrete 60% Recovery	Partial
Wire mesh	
Wire mesh	
Total 7-1/2"	

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CORE LOG

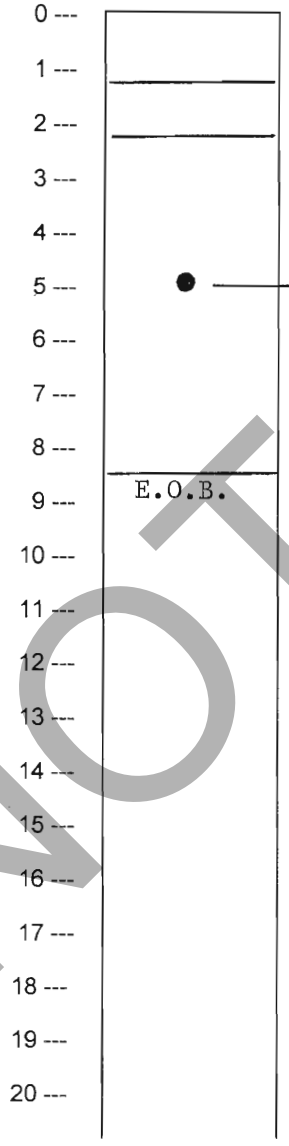
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 21 Work Done By: DB & JL

Location of Core: 714 Yale Street, 6' W. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
1-1/4" Bituminous concrete - surface	Full
1-0" Bituminous concrete - surface	Full
6-1/4" Concrete 90% Recovery	Partial
Wire mesh	
Total 8-1/2"	

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CORE LOG

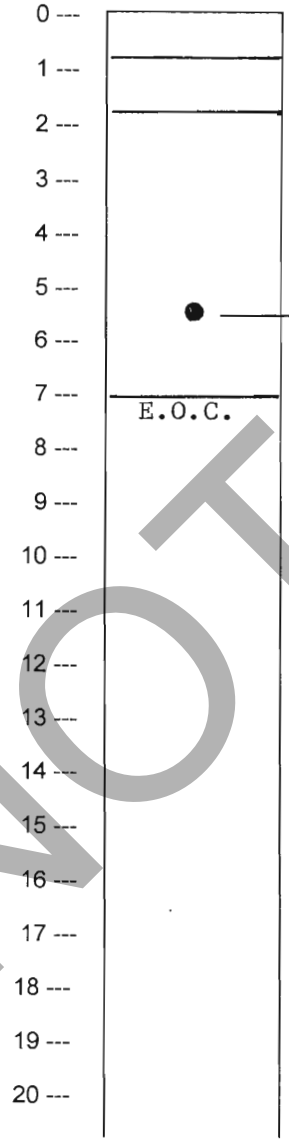
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 22 Work Done By: DB & JL

Location of Core: 735 Yale Street, 4' E. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
0-3/4" Bituminous concrete - surface	Full
1-0" Bituminous concrete - surface	Full
5-1/4" Concrete	Full
Wire mesh	
Total 7-0"	

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CORE LOG

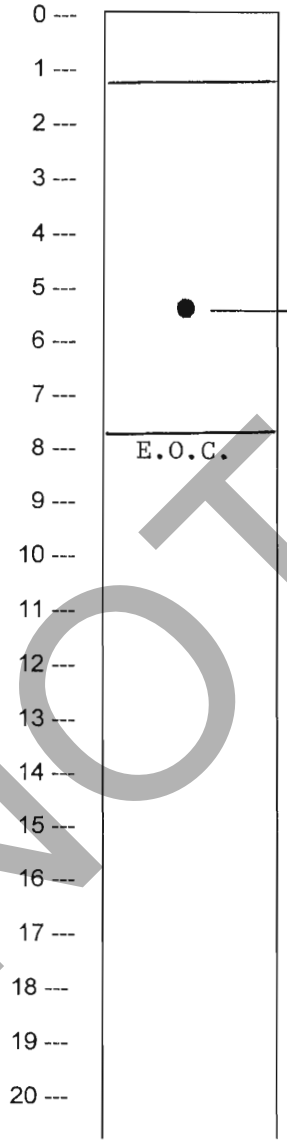
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 23 Work Done By: DB & JL

Location of Core: 414 Euclid Avenue, 6' W. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
1-1/4" Bituminous concrete - surface	Full
6-1/2" Concrete	Full
Wire mesh	
Total 7-3/4"	

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CORE LOG

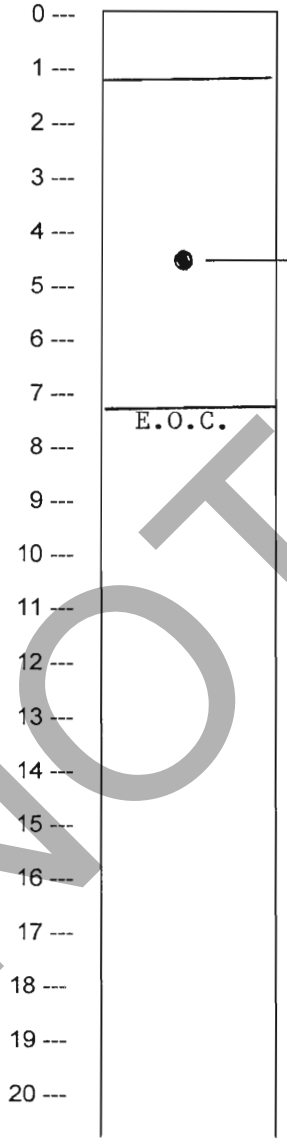
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 24 Work Done By: DB & JL

Location of Core: 505 Euclid Avenue, 6' E. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
1-1/4" Bituminous concrete - surface	Full
6-0" Concrete 80% Recovery	Partial
Wire mesh	
Total 7-1/4"	

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File No.: 19175

CORE LOG

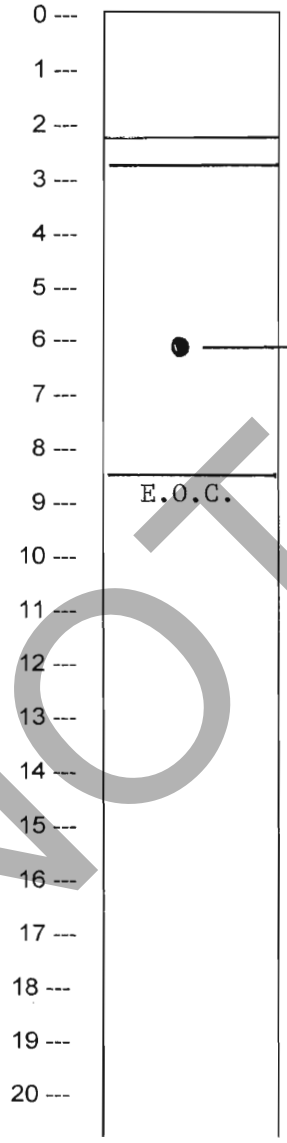
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 25 Work Done By: DB & JL

Location of Core: 542 Euclid Avenue, 6' W. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
2-1/4" Bituminous concrete - surface	Full
0-1/2" Bituminous concrete - surface	Full
5-3/4" Concrete 95% Recovery	Partial
Wire mesh	
Total 8-1/2"	

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CORE LOG

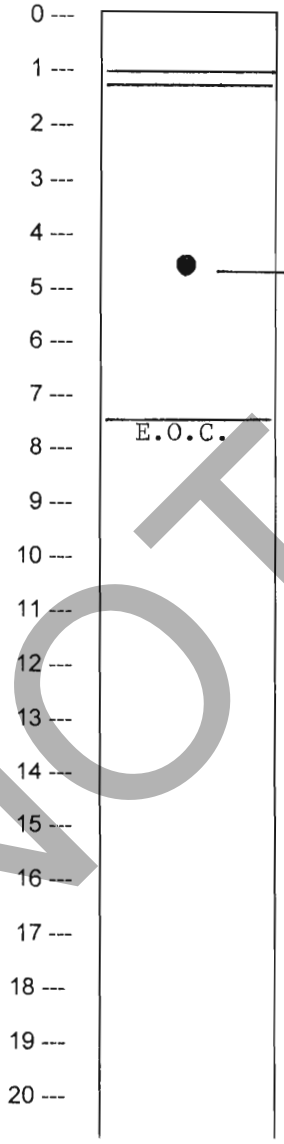
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 26 Work Done By: DB & JL

Location of Core: 611 Euclid Avenue, 5' E. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
1-0" Bituminous concrete - surface	Full
0-1/4" Bituminous concrete - surface	Full
6-1/4" Concrete	Full
Wire mesh	
Total 7-1/2"	

SOIL AND MATERIAL CONSULTANTS, INC.

8 WEST COLLEGE DRIVE
ARLINGTON HEIGHTS, IL 60004

OFFICE: (847) 870-0544
FAX: (847) 870-0661

Date: 12/6/07

File No.: 19175

CORE LOG

Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 27 Work Done By: DB & JL

Location of Core: 638 Euclid Avenue, 4' W. of CL

Description of Core Wall:

Comments:

(Depth, In.)	Type of Material	Recovery
0		
1	1-1/2" Bituminous concrete - surface	Full
2		
3		
4		
5		
6	8-0" Concrete	Full
7		
8		
9		
10 E.O.C.	Total 9-1/2"	
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

SOIL AND MATERIAL CONSULTANTS, INC.

8 WEST COLLEGE DRIVE
ARLINGTON HEIGHTS, IL 60004

OFFICE: (847) 870-0544
FAX: (847) 870-0661

Date: 12/6/07

File No.: 19175

CORE LOG

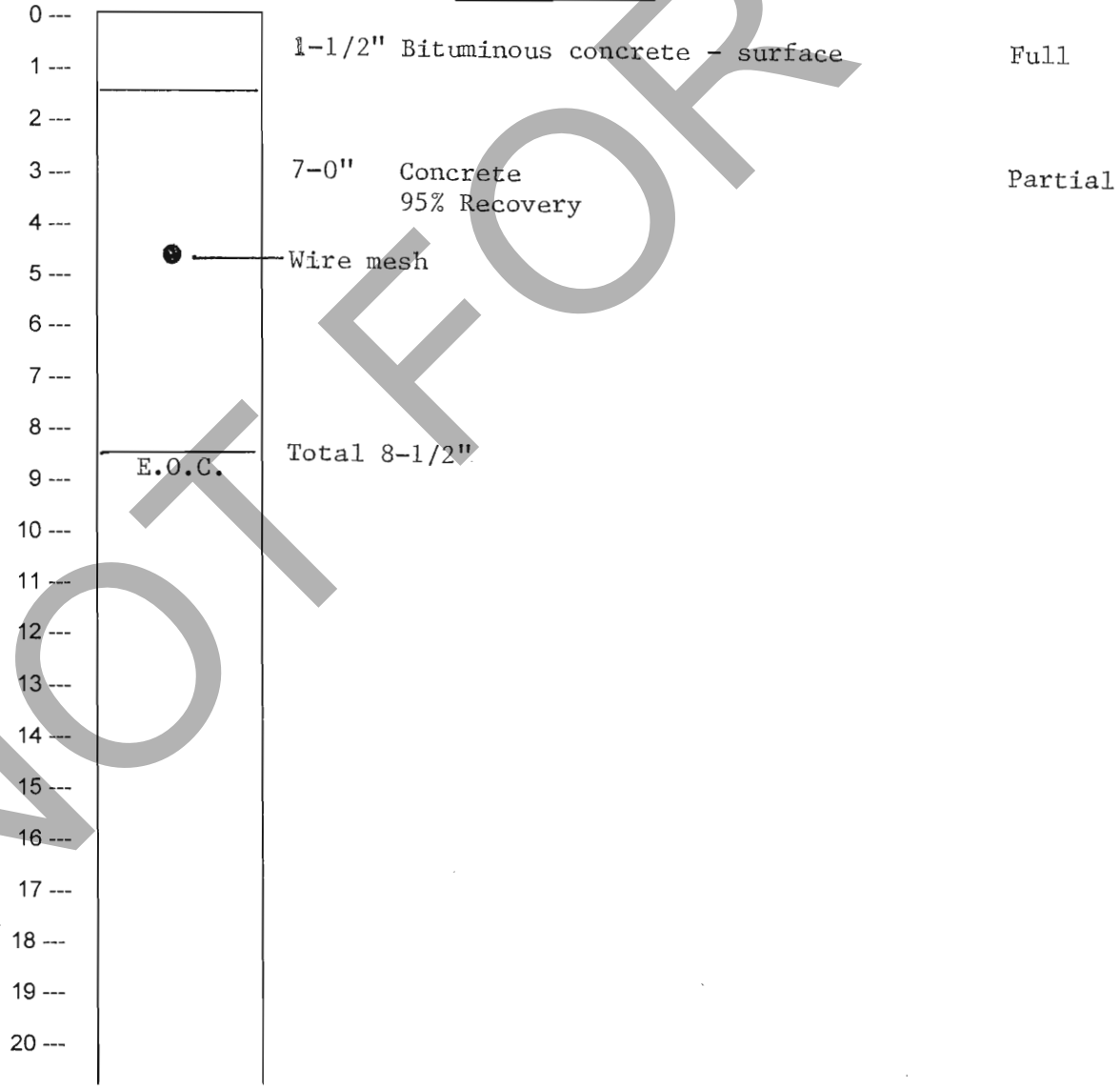
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 28 Work Done By: DB & JL

Location of Core: 719 Euclid Avenue, 6' E. of CL

Description of Core Wall:

Comments:



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8 WEST COLLEGE DRIVE
ARLINGTON HEIGHTS, IL 60004

OFFICE: (847) 870-0544
FAX: (847) 870-0661

Date: 12/6/07

File No.: 19175

CORE LOG

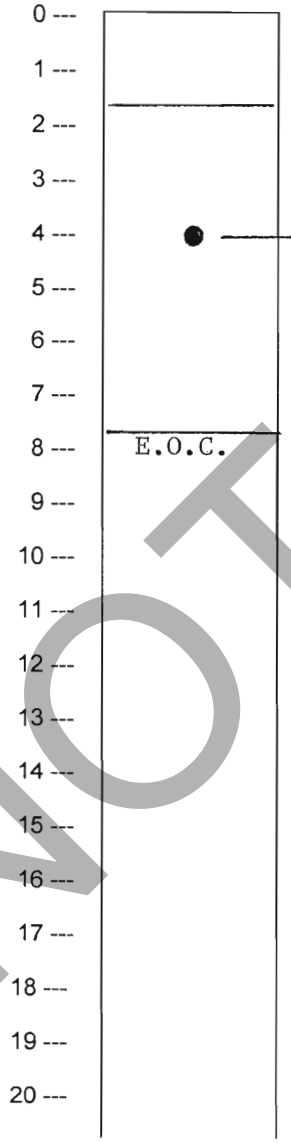
Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 29 Work Done By: DB & JL

Location of Core: 748 Euclid Avenue, 5' W. of CL

Description of Core Wall:

Comments:



Type of Material	Recovery
1-3/4" Bituminous concrete - surface	Full
Wire mesh	
6-0" Concrete	Full
Total 7-3/4"	

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8 WEST COLLEGE DRIVE
ARLINGTON HEIGHTS, IL 60004

OFFICE: (847) 870-0544
FAX: (847) 870-0661

Date: 12/6/07

File No.: 19175

CORE LOG

Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 30 Work Done By: DB & JL

Location of Core: 1014 Myrtle Avenue, 6' W. of CL

Description of Core Wall:

Comments:

(Depth, In.)	Type of Material	Recovery
0		
1	2-0" Bituminous concrete - surface	Full
2	PETROMAT	
3	1-3/4" Bituminous concrete - surface	Full
4		
5		
6		
7	9-1/4" Crushed limestone	Partial
8		
9		
10		
11		
12		
13	E.O.C. Total 13-0"	
14		
15		
16		
17		
18		
19		
20		

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8 WEST COLLEGE DRIVE
ARLINGTON HEIGHTS, IL 60004

OFFICE: (847) 870-0544
FAX: (847) 870-0661

Date: 12/6/07

File No.: 19175

CORE LOG

Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 31 Work Done By: DB & JL

Location of Core: 1106 Myrtle Avenue, 4' E. of CL

Description of Core Wall:

Comments:

(Depth, In.)	Type of Material	Recovery
0		
1	2-1/4" Bituminous concrete - surface	Full
2	PETROMAT	
3	2-1/4" Bituminous concrete - surface	Full
4		
5		
6		
7		
8	10-0" Crushed limestone	Partial
9		
10		
11		
12		
13		
14	Total 14-1/2"	
15	E.O.C.	
16		
17		
18		
19		
20		

SOIL AND MATERIAL CONSULTANTS, INC.

8 WEST COLLEGE DRIVE
ARLINGTON HEIGHTS, IL 60004

OFFICE: (847) 870-0544
FAX: (847) 870-0661

Date: 12/6/07

File No.: 19175

CORE LOG

Client: Village of Villa Park Reference 2008 Street Improvements

Core No: 32 Work Done By: DB & JL

Location of Core: 1138 Myrtle Avenue, 5' W. of CL

Description of Core Wall:

Comments:

(Depth, In.)	Type of Material	Recovery
0		
1	2-0" Bituminous concrete - surface	Full
2	PETROMAT	
3	2-0" Bituminous concrete - surface	Full
4		
5		
6		
7		
8		
9	10-3/4" Crushed limestone	Partial
10		
11		
12		
13		
14		
15	E.O.C. Total 14-3/4"	
16		
17		
18		
19		
20		

SOIL AND MATERIAL CONSULTANTS, INC.

office: 1-847-870-0544
fax:1-847-870-0661
www.soilandmaterialconsultants.com
us@soilandmaterialconsultants.com

April 28, 2014
File No. 21405

Mr. Vydas Juskelis
Director of Public Works
Village of Villa Park
20 S. Ardmore Avenue
Villa Park, IL 60181

Re: Geotechnical Investigation
Park Boulevard
Villa Park, Illinois

Dear Mr. Juskelis:

The following is our report of findings for the geotechnical investigation completed on Park Boulevard from S. Villa Ave. heading east to Rte. 83 located in the Village of Villa Park, Illinois.

The investigation was requested to determine existing pavement sections and subgrade soil support conditions. The information is intended to assist in the determination of reconstruction solutions.

SCOPE OF THE INVESTIGATION

The field investigation included a total of 7 soil boring locations. The approximate locations are indicated on the enclosed sketch. Supporting soils were visually and texturally classified in the field. Soil samples were obtained immediately beneath the pavement materials and extending to depths of 7.0 feet using a split barrel sampler.

Soil samples obtained during the field investigation were returned to our laboratory for review and testing. Soil testing included determination of moisture content. Cohesive soils obtained by split barrel sampling were further tested to determine dry unit weight and unconfined compressive strength. The results of all field and laboratory testing are included in summary with this report.

EXISTING CONDITIONS

Visual examination of the pavement surface revealed areas of significant distress. These include cold joint cracking, meandering cracks, alligatoring and previously patched areas.

The following table summarizes the types and thicknesses of materials encountered at these boring locations:

Location	HMA (in.)	PCC (in.)	Total (in.)
B-101	1.50	7.00	8.50
B-102	1.25	6.25	8.00
B-103	1.25	7.00	8.25
B-104	1.50	7.00	8.50
B-105	1.75	9.00	10.75
B-106	1.25	6.75	8.00
B-107	3.50	0.00	3.50

Borings 101 to 106 were performed on Park Boulevard. Fill soil conditions consisting of clay/silt, silt/clay, sand/gravel and crushed gravel mixtures were noted beneath the pavement materials at borings 101, 102, and 105 to 107, extending to depths of 1.5 feet to 7.0 feet. Topsoil was noted beneath the pavement materials at borings 103 and 104, extending to depths of 2.0 feet. Underlying natural soil conditions consist of clay/silt mixtures, with a silt/sand mixture noted at boring 107.

DISCUSSION

We understand a full reconstruction of the pavement is planned for this portion of Park Boulevard. The complete reconstruction of the pavement would include the removal of all the existing pavement materials. The subgrade would then be excavated to the design elevation, compacted and proof rolled. Proof-rolling may reveal unstable soil conditions due to the buried topsoil and high moisture content soils.

If the proof-rolling reveals unstable soil conditions, the organic soils should be removed and the high moisture content soils aerated. Discing and aeration of the soil can be effective to depths of up to 1.0 foot depending upon the equipment used. If the high moisture content condition extends to depths greater than the effective depth of discing, removal of the unstable soils will be necessary. Removal would be determined based on cone penetrometer test results.

Any areas of topsoil and unstable soils that require removal should be replaced with large crushed aggregate, possibly in conjunction with the use of an appropriate geotextile fabric. The new aggregate base would then be placed and compacted followed by the placement of the designed thickness of bituminous concrete binder and bituminous concrete surface courses.

An inspection by a Soil Engineer is recommended during subgrade soil preparation, particularly in the noted problem areas. A period of dry weather prior to the beginning of the earthwork may result in improved soil moisture content conditions near the surface and decreased

subgrade soil preparation costs. A period of wet weather may create the need for increased discing and drying efforts. Problem soil conditions should be reviewed at the time of subgrade preparation to verify that planned treatments will be effective for the actual soil conditions encountered.

CONCLUSION

This report has been prepared to assist in initial determination of existing pavement sections and supporting soil conditions. Locally varying conditions may be present between test locations.

Any questions concerning the information presented in this report should be directed to our office.

Very truly yours,

SOIL AND MATERIAL CONSULTANTS, INC.

Joseph A. Klawitter, P.E.
Project Engineer

JAK:jk
Enc.
Cc: Mr. Tom Lang, P.E. – Robinson Engineering
Mr. Kevin Mantels, EIT – Village of Villa Park

N

SMC	SOIL AND MATERIAL CONSULTANTS, INC.	LOCATION SKETCH
Client:	VILLAGE OF VILLA PARK	
Project:	PARK BOULEVARD	
Location:	VILLA PARK, ILLINOIS	
File No. 21405	Date: 04-15-14	Scale: NONE

SOIL AND MATERIAL CONSULTANTS, INC.

Arlington Heights, Illinois (847) 870-0544

SOIL BORING LOG 101

Logged By: DA Page: 1 of 1

Client: Village of Villa Park

File No. 21405 Date Drilled: 4/15/14

Reference: Park Blvd.
Villa Park, IL

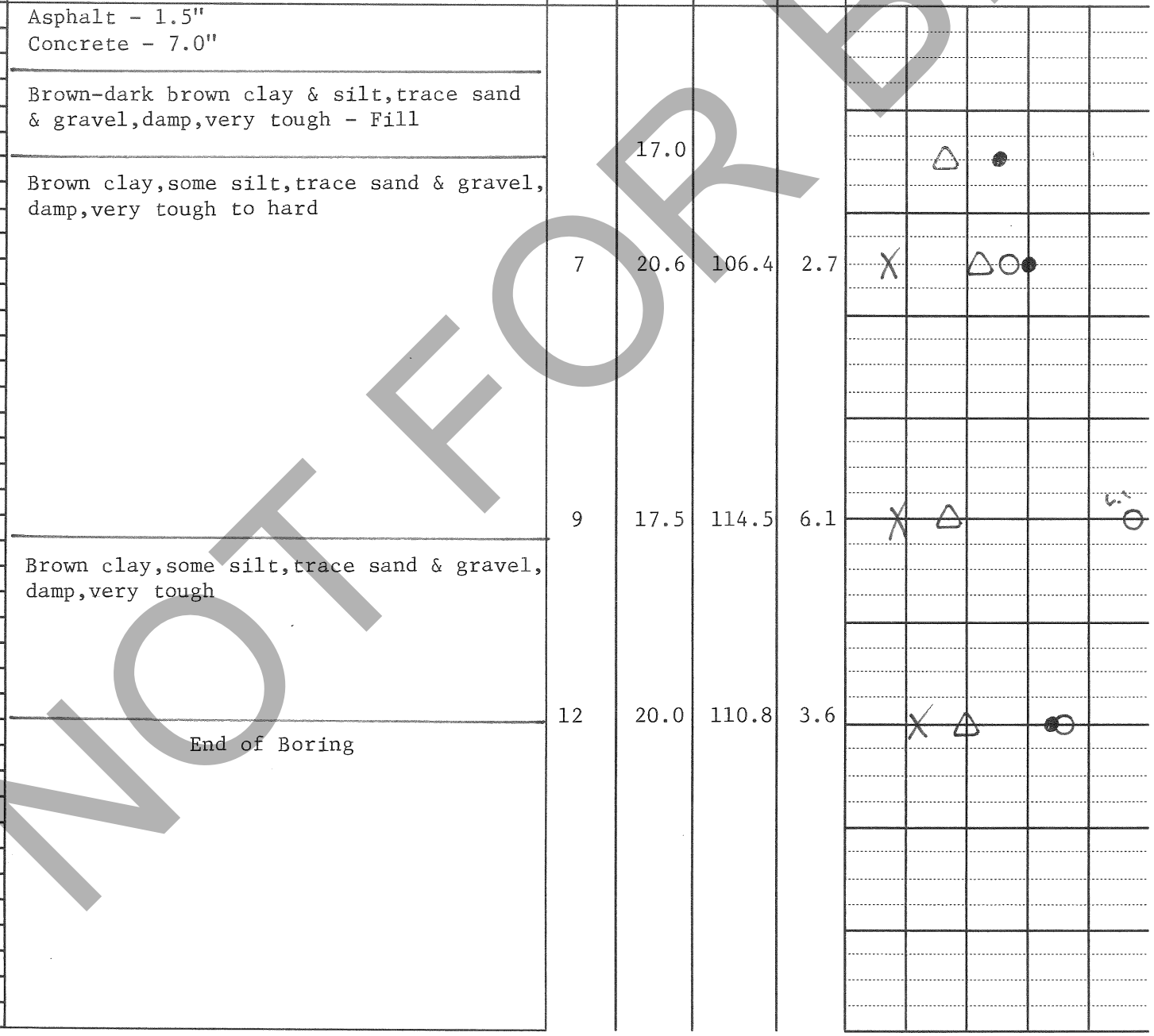
Comments:

Equipment: ☒ CME 45B ☐ CME 55 ☐ Hand Auger ☐ Other

depth, ft.	CLASSIFICATION Elevation Existing Surface	standard penetration ×	moisture content △	dry unit weight lbs./cu.ft. ϑ	unconfined compressive strength ○
	Asphalt - 1.5" Concrete - 7.0"				
1	Brown-dark brown clay & silt,trace sand & gravel,damp,very tough - Fill		17.0		
2	Brown clay,some silt,trace sand & gravel, damp,very tough to hard	7	20.6	106.4	2.7
3					
4					
5		9	17.5	114.5	6.1
6	Brown clay,some silt,trace sand & gravel, damp,very tough				
7	End of Boring	12	20.0	110.8	3.6
8					
9					
10					

○ unconfined compressive strength, tons/sq.ft.
● penetrometer reading, tons/sq.ft.
1.0 2.0 3.0 4.0

× standard penetration "N", blows/ft.
△ moisture content, %
10 20 30 40



Water encountered at dry feet during drilling operations (W.D.).
Water recorded at dry feet on completion of drilling operations (A.D.).
Water recorded at feet hours after completion of drilling operations (A.D.).

SOIL AND MATERIAL CONSULTANTS, INC.

Arlington Heights, Illinois (847) 870-0544

SOIL BORING LOG 102

Logged By: DA Page: 1 of 1

Client: Village of Villa Park

File No. 21405 Date Drilled: 4/15/14

Reference: Park Blvd.
Villa Park, IL

Comments:

Equipment: ☒ CME 45B ☐ CME 55 ☐ Hand Auger ☐ Other

depth, ft.	CLASSIFICATION Elevation Existing Surface	standard penetration ×	moisture content △	dry unit weight lbs./cu.ft. ɣ	unconfined compressive strength ○
	Asphalt - 1.25" Concrete - 6.25"				
1	Black-dark gray silt,some clay,trace sand,very damp,loose - Fill				
			26.7		
2	Brown-dark brown-black clay,some silt, trace sand & gravel,damp,very tough - Fill				
		6	21.2	107.3	2.0
3					
4					
			27.5		
5	Brown clay,some silt,trace sand & gravel, damp,very tough	12	21.0	108.7	3.1
6					
7	End of Boring	16	20.4	110.5	3.3
8					
9					
10					

○ unconfined compressive strength, tons/sq.ft.
● penetrometer reading, tons/sq.ft.
1.0 2.0 3.0 4.0

× standard penetration "N", blows/ft.
△ moisture content, %
10 20 30 40

Water encountered at dry feet during drilling operations (W.D.).
Water recorded at dry feet on completion of drilling operations (A.D.).
Water recorded at feet hours after completion of drilling operations (A.D.).

SOIL AND MATERIAL CONSULTANTS, INC.

Arlington Heights, Illinois (847) 870-0544

SOIL BORING LOG 103

Logged By: DA Page: 1 of 1

Client: Village of Villa Park

File No. 21405 Date Drilled: 4/15/14

Reference: Park Blvd.
Villa Park, IL

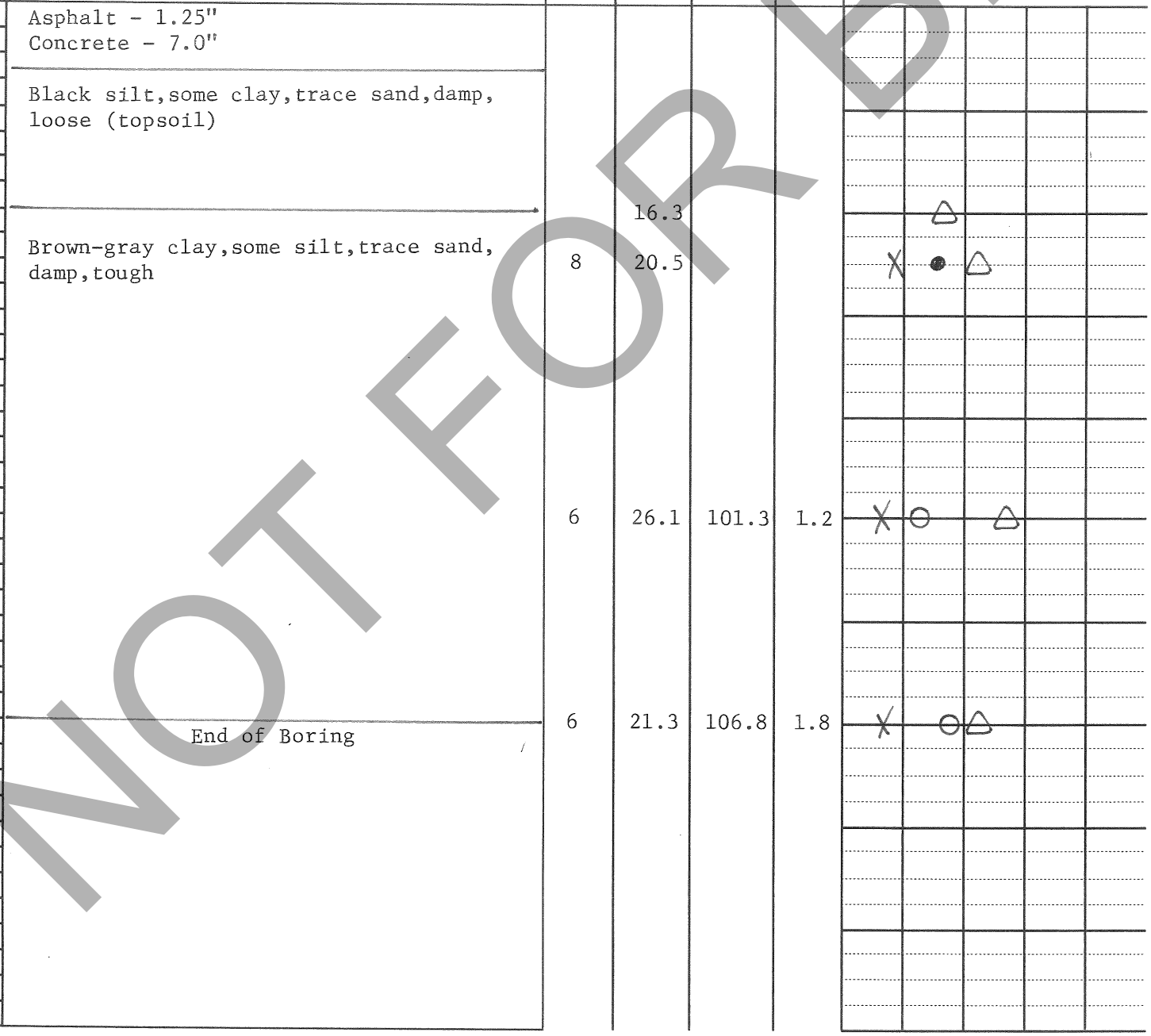
Comments:

Equipment: ☒ CME 45B ☐ CME 55 ☐ Hand Auger ☐ Other

depth, ft.	CLASSIFICATION Elevation Existing Surface	standard penetration ×	moisture content △	dry unit weight lbs./cu.ft. ϑ	unconfined compressive strength ○
	Asphalt - 1.25" Concrete - 7.0"				
1	Black silt, some clay, trace sand, damp, loose (topsoil)				
2			16.3		
	Brown-gray clay, some silt, trace sand, damp, tough	8	20.5		
3					
4					
5		6	26.1	101.3	1.2
6					
7	End of Boring	6	21.3	106.8	1.8
8					
9					
10					

○ unconfined compressive strength, tons/sq.ft.
● penetrometer reading, tons/sq.ft.
1.0 2.0 3.0 4.0

× standard penetration "N", blows/ft.
△ moisture content, %
10 20 30 40



Water encountered at dry feet during drilling operations (W.D.).
Water recorded at dry feet on completion of drilling operations (A.D.).
Water recorded at feet hours after completion of drilling operations (A.D.).

G-303d

SOIL AND MATERIAL CONSULTANTS, INC.

Arlington Heights, Illinois (847) 870-0544

SOIL BORING LOG 104

Logged By: DA Page: 1 of 1

Client: Village of Villa Park

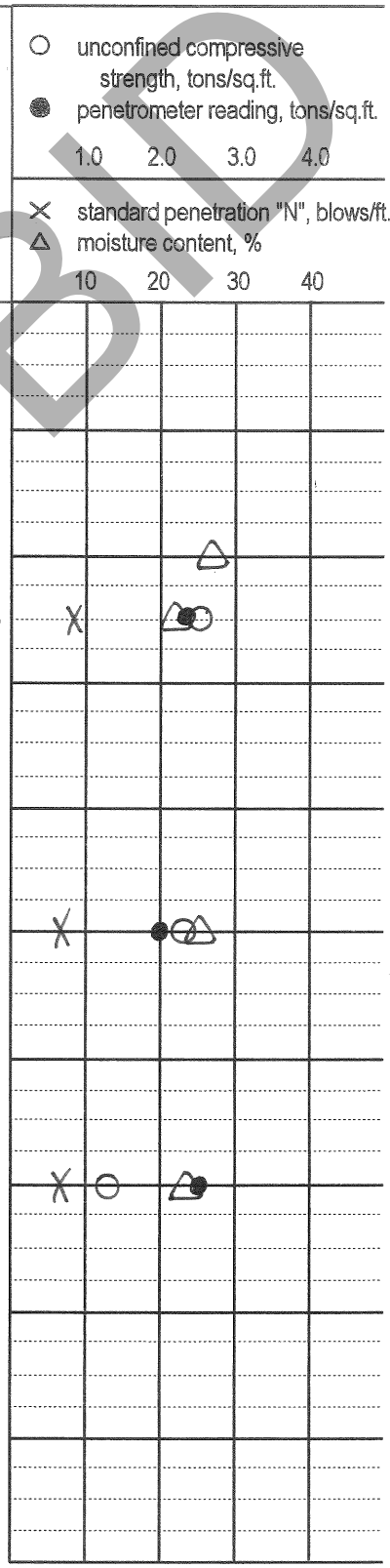
File No. 21405 Date Drilled: 4/15/14

Reference: Park Blvd.
Villa Park, IL

Comments:

Equipment: ☒ CME 45B ☐ CME 55 ☐ Hand Auger ☐ Other

depth, ft.	CLASSIFICATION Elevation Existing Surface	standard penetration ×	moisture content △	dry unit weight lbs./cu.ft. ϑ	unconfined compressive strength ○
	Asphalt - 1.5" Concrete - 7.0"				
1	Black silt,some clay,trace sand,damp, loose (topsoil)				
2			26.7		
3	Brown-gray clay,some silt,trace sand & gravel,damp,very tough to tough	8	21.4	103.3	2.5
4					
5		6	25.4	98.0	2.3
6					
7	End of Boring	6	23.2	103.9	1.3
8					
9					
10					



Water encountered at dry feet during drilling operations (W.D.).
Water recorded at dry feet on completion of drilling operations (A.D.).
Water recorded at feet hours after completion of drilling operations (A.D.).

G-303d

SOIL AND MATERIAL CONSULTANTS, INC.

Arlington Heights, Illinois (847) 870-0544

SOIL BORING LOG 105

Logged By: DA **Page:** 1 of 1

Client: Village of Villa Park

File No. 21405 **Date Drilled:** 4/15/14

Reference: Park Blvd.
Villa Park, IL

Comments:

Equipment: ☒ CME 45B ☐ CME 55 ☐ Hand Auger ☐ Other

depth, ft.	CLASSIFICATION Elevation Existing Surface	standard penetration ×	moisture content △	dry unit weight lbs./cu.ft. ɣ	unconfined compressive strength ○
	Asphalt - 1.75" Concrete - 9.5"				
1					
2	Brown fine-medium sand, some coarse sand & gravel, damp-very damp, medium dense to very loose - Fill	14	4.6		
3					
4					
5		4	5.6		
6					
7	End of Boring	2	7.9		
8					
9					
10					

○ unconfined compressive strength, tons/sq.ft.
● penetrometer reading, tons/sq.ft.
1.0 2.0 3.0 4.0

× standard penetration "N", blows/ft.
△ moisture content, %
10 20 30 40

Water encountered at dry feet during drilling operations (W.D.).
Water recorded at dry feet on completion of drilling operations (A.D.).
Water recorded at feet hours after completion of drilling operations (A.D.).

G-303d

SOIL AND MATERIAL CONSULTANTS, INC.
Arlington Heights, Illinois (847) 870-0544

SOIL BORING LOG 106

Logged By: DA Page: 1 of 1

Client: Village of Villa Park

File No. 21405 Date Drilled: 4/15/14

Reference: Park Blvd.
Villa Park, IL

Comments:

Equipment: ☒ CME 45B ☐ CME 55 ☐ Hand Auger ☐ Other

depth, ft.	CLASSIFICATION Elevation Existing Surface	standard penetration ×	moisture content △	dry unit weight lbs./cu.ft. ⊗	unconfined compressive strength ○
	Asphalt - 1.25" Concrete - 6.75"				
1	Brown-dark brown-black clay,some silt, trace sand & gravel,damp,very tough - Fill				
2			23.5		
	Brown clay,some silt,trace sand & gravel, damp,hard	7	18.9		
3					
4	Brown clay,some silt,trace sand & gravel, damp,very tough to hard				
5		12	14.0	121.4	2.7
6					
7	End of Boring	17	18.8	109.9	5.0
8					
9					
10					

○ unconfined compressive strength, tons/sq.ft.
● penetrometer reading, tons/sq.ft.
1.0 2.0 3.0 4.0

× standard penetration "N", blows/ft.
△ moisture content, %
10 20 30 40

Water encountered at dry feet during drilling operations (W.D.).
Water recorded at dry feet on completion of drilling operations (A.D.).
Water recorded at feet hours after completion of drilling operations (A.D.).

SOIL AND MATERIAL CONSULTANTS, INC.
Arlington Heights, Illinois (847) 870-0544

SOIL BORING LOG 107

Logged By: DA Page: 1 of 1

Client: Village of Villa Park

File No. 21405 Date Drilled: 4/15/14

Reference: Park Blvd.
Villa Park, IL

Comments:

Equipment: ☒ CME 45B ☐ CME 55 ☐ Hand Auger ☐ Other

depth, ft.	CLASSIFICATION Elevation Existing Surface	standard penetration ×	moisture content △	dry unit weight lbs./cu.ft. ⊗	unconfined compressive strength ○
	Asphalt - 3.5"				
1	Crushed gravel with fines,damp,very loose - Fill				
2		4	3.5		
3	Brown clay,some silt,trace sand,very damp		23.8		
4	Brown silt,trace fine sand & clay,damp, loose				
5		5	23.7		
6					
7	End of Boring	7	21.8		
8					
9					
10					

○ unconfined compressive strength, tons/sq.ft.
● penetrometer reading, tons/sq.ft.
1.0 2.0 3.0 4.0

× standard penetration "N", blows/ft.
△ moisture content, %
10 20 30 40

Water encountered at dry feet during drilling operations (W.D.).
Water recorded at dry feet on completion of drilling operations (A.D.).
Water recorded at feet hours after completion of drilling operations (A.D.).

SOIL AND MATERIAL CONSULTANTS, INC.

General Notes

SAMPLE CLASSIFICATION

Soil sample classification is based on the Unified Soil Classification System, the Standard Practice for Description and Identification of Soils (Visual-Manual Procedure), ASTM D-2488, the Standard Test Method for Classification of Soils for Engineering Purposes, ASTM D-2487(when applicable), and the modifiers noted below.

CONSISTENCY OF COHESIVE SOILS

Term	Qu -tons/sq. ft.	N (unreliable)
Very Soft	0.00 - 0.25	0 - 2
Soft	0.26 - 0.49	3 - 4
Stiff	0.50 - 0.99	5 - 8
Tough	1.00 - 1.99	9 - 15
Very Tough	2.00 - 3.99	16 - 30
Hard	4.00 - 7.99	30 +
Very Hard	8.00 +	

RELATIVE DENSITY OF GRANULAR SOILS

Term	N - blows/foot
Very Loose	0 - 4
Loose	5 - 9
Medium Dense	10 - 29
Dense	30 - 49
Very Dense	50 +

IDENTIFICATION AND TERMINOLOGY

Term		Size Range
Boulder		over 8 in.
Cobble		3 in. to 8 in.
Gravel	-coarse	1 in. to 3 in.
	-medium	3/8 in. to 1 in.
	-fine	#4 sieve to 3/8 in.
Sand	-coarse	#10 sieve to #4 sieve
	-medium	#40 sieve to #10 sieve
	-fine	#200 sieve to #40 sieve
Silt		0.002 mm to #200 sieve
Clay		smaller than 0.002 mm

Modifying Term	Percent by Weight
Trace	1 - 10
Little	11 - 20
Some	21 - 35
And	36 - 50

Moisture Condition

Dry
Damp
Very Damp
Saturated

DRILLING, SAMPLING & SOIL PROPERTY SYMBOLS

CF - Continuous Flight Auger
HS - Hollow Stem Auger
HA - Hand Auger
RD - Rotary Drilling
AX - Rock Core, 1-3/16 in. diameter
BX - Rock Core, 1-5/8 in. diameter
NX - Rock Core, 2-1/8 in. diameter
S - Sample Number
T - Type of Sample
J - Jar
AS - Auger Sample
SS - Split-spoon (2 in. O.D. with 1-3/8 in. I.D.)
ST - Shelby Tube (2 in. O.D. with 1-7/8 in. I.D.)
R - Recovery Length, in.
B - Blows/ 6 in. interval, Standard Penetration Test (SPT)
N - Blows/ foot to drive 2 in. O.D. split-spoon sampler with 140 lb. hammer falling 30 in., (STP)
Pen. - Pocket Penetrometer reading, tons/ sq. ft.
W - Water Content, % of dry weight
Uw - Dry Unit Weight of soil, lbs./ cu. ft.
Qu - Unconfined Compressive Strength, tons/ sq. ft.
Str - % Strain at Qu.
WL - Water Level
WD - While Drilling
AD - After Drilling
DCI - Dry Cave-in
WCI - Wet Cave-in
LL - Liquid Limit, %
PL - Plastic limit, %
PI - Plasticity Index (LL-PL)
LI - Liquidity Index [(W-PL)/PI]