Illinois Department of Transportation

Local Public Agency
Formal Contract Proposal

COVER SHEET

Proposal Submitted By:

Contractor's Name

Contractor's Address | City | State | Zip Code

STATE OF ILLINOIS

Local Public Agency: Village of Oak Lawn | County: Cook | Section Number:

Route(s) (Street/Road Name): CHSD 218 Administration Building Stormwater Improvements Project | Type of Funds: Local / MWRD

☐ Proposal Only ☒ Proposal and Plans ☐ Proposal only, plans are separate

Submitted/Approved
For Local Public Agency:

NOT AN IDOT PROJECT

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

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Oak Lawn	Cook		CHSD 218 Administration Build

NOTICE TO BIDDERS

Sealed proposals for the project described below will be received at the office of Village of Oak Lawn Village Hall
Name of Office

9446 South Raymond Avenue, Oak Lawn, IL 60453 until 1:00 PM on 08/27/25.
Address Time Date

Sealed proposals will be opened and read publicly at the office of Village of Oak Lawn Village Hall
Name of Office

9446 South Raymond Avenue, Oak Lawn, IL 60453 at 1:00 PM on 08/27/25.
Address Time Date

DESCRIPTION OF WORK

Location	Project Length
Kilpatrick Avenue and 105th Street in the Village of Oak Lawn, Cook County, IL.	6,500 LF

Proposed Improvement

The proposed work is officially known as “COMMUNITY HIGH SCHOOL DISTRICT 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT” and further described as mass grading to construct a flood storage detention basin with an underdrain system, large diameter storm sewer installation, ball field and site amenities, roadway resurfacing, and all necessary restoration as further described in the contract documents for the said work prepared by Christopher B. Burke Engineering, Ltd. (CBBEL). Work shall be completed with the use of Local and MWRD Partnership Funding.

1. Plans and proposal forms will be available in the office of

for download only from QuestCDN via the Christopher B. Burke Engineering, Ltd. (CBBEL) website http://cbbel.com/bidding-info/ or at www.questcdn.com under login using QuestCDN #9776854 for a non-refundable charge of $40.00.

2. ☒ Prequalification

   If checked, the 2 apparent as read low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57) in triplicate, 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 two originals 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. Local Public Agency Formal Contract Proposal (BLR 12200)
   b. Schedule of Prices (BLR 12201)
   c. Proposal Bid Bond (BLR 12230) (if applicable)
   d. Apprenticeship or Training Program Certification (BLR 12325) (do not use for project with Federal funds.)
   e. Affidavit of Illinois Business Office (BLR 12326) (do not use for project with Federal funds)

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.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Oak Lawn	Cook		CHSD 218 Administration Build

PROPOSAL

1. Proposal of _____
Contractor's Name

_____.
Contractor's Address

2. The plans for the proposed work are those prepared by Christopher B. Burke Engineering, Ltd. (CBBEL).
and approved by the Department of Transportation on _____.

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

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

5. The undersigned agrees to complete the work by 10/23/26 unless additional time is granted in accordance with the specifications.

6. 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 of check shall be forfeited to the Awarding Authority.

7. 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 products 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. A bid may be declared unacceptable if neither a unit price nor a total price is shown.

8. The undersigned submits herewith the schedule of prices on BLR 12201 covering the work to be performed under this contract.

9. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12201, 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.

10. 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 Oak Lawn .
The amount of the check is _____ (_____).

Attach Cashier's Check or Certified Check Here

In the event that one proposal guaranty check is intended to cover two or more bid proposals, the amount must be equal to the sum of the proposal guaranties which would be required for each individual bid proposal. If the proposal guaranty check is placed in another bid proposal, state below where it may be found.

The proposal guaranty check will be found in the bid proposal for: Section Number _____ .

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Oak Lawn	Cook		CHSD 218 Administration Build

CONTRACTOR CERTIFICATIONS

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

1. **Debt Delinquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedure established by the appropriate Revenue Act, its liability for the tax or the amount of the 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: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract 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 on 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 of 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 on 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 or 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 canceled.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
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SIGNATURES

(If an individual)

Bidder Signature & Date

Business Address

City | State | Zip Code

(If a partnership)

Firm Name

Signature & Date

Title

Business Address

City | State | Zip Code

Insert the Names and Addresses of all Partners

(If a corporation)

Corporate Name

Signature & Date

Title

Business Address

City | State | Zip Code

Insert Names of Officers

President

Secretary

Attest:

Treasurer

Secretary

Schedule of Prices

Contractor's Name

Contractor's Address | State | Zip Code

Local Public Agency | County

Village of Oak Lawn | **Cook**

Route(s) (Street/Road Name)

Community High School District 218 Administration Building Stormwater Improvements Project

Schedule for Single Bid

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

Item Number	Items	Unit	Quantity	Unit Price	Total
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	75		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	50		
*20101200	TREE ROOT PRUNING	EACH	50		
20200100	EARTH EXCAVATION	CU YD	87,000		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,750		
*20800150	TRENCH BACKFILL, SPECIAL	CU YD	18,500		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	5,250		
*21101600	TOPDRESS AND RESTORE PARKWAY DAMAGE	SQ YD	7,000		
21101505	TOPSOIL EXCAVATION AND PLACEMENT, 12"	CU YD	12,500		
*25000110	SEEDING, CLASS 1A	SQ YD	15,000		
*25000100	SEEDING, ATHLETIC FIELDS	SQ YD	29,500		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	250		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	250		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	250		
25100630	EROSION CONTROL BLANKET	SQ YD	27,500		
25200200	SUPPLEMENTAL WATERING	UNIT	1,875		
28000400	PERIMETER EROSION BARRIER	FOOT	2,750		
28000500	CULVERT INLET PROTECTION	EACH	1		
*28000510	INLET FILTERS	EACH	125		
*30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	1,750		
40300200	BITUMINOUS MATERIALS (PRIME COAT)	POUND	17,000		
40600827	LEVELING BINDER (MACHINE METHOD), IL 9.5mm, N50 - 0.75"	TON	1,250		
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 - 1.5"	TON	2,250		
*42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (SPECIAL)	SQ FT	25,000		
*42400800	DETECTABLE WARNINGS	SQ FT	1,250		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	25,000		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	500		
44000600	SIDEWALK REMOVAL	SQ FT	25,000		
*44201711	CLASS D PATCHES, 5" (SPECIAL)	SQ YD	13,500		
*54001001	BOX CULVERT END SECTION W/ GRATE, 10' x 3'	EACH	1		
54011003	PRECAST CONCRETE BOX CULVERTS, 10' x 3'	FOOT	30		
550A0340	STORM SEWERS, CLASS A, TYPE 2, 12"	FOOT	1,300		
550A0360	STORM SEWERS, CLASS A, TYPE 2, 15"	FOOT	300		
550A0430	STORM SEWERS, CLASS A, TYPE 2, 30"	FOOT	100		

Schedule of Prices

Contractor's Name

Contractor's Address | State | Zip Code

Local Public Agency | County

Village of Oak Lawn | **Cook**

Route(s) (Street/Road Name)

Community High School District 218 Administration Building Stormwater Improvements Project

Schedule for Single Bid
(For complete information covering these items, see plans and specifications.)

Item Number	Items	Unit	Quantity	Unit Price	Total
550A0480	STORM SEWERS, CLASS A, TYPE 2, 48"	FOOT	3,650		
550A5550	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 72" (91" x 58")	FOOT	2,125		
*55100100	STORM SEWER REMOVAL	FOOT	2,750		
*56100600	ADJUSTING WATER MAIN 6"	FOOT	200		
*56100700	ADJUSTING WATER MAIN 8"	FOOT	100		
*56100900	ADJUSTING WATER MAIN 12"	FOOT	50		
*56300300	ADJUSTING WATER SERVICE LINES	FOOT	575		
*60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	6,000		
*60108300	PIPE UNDERDRAINS 8" (SPECIAL)	FOOT	1,350		
*60108500	PIPE UNDERDRAINS 12" (SPECIAL) (PERFORATED)	FOOT	1,500		
*60108500	PIPE UNDERDRAINS 12" (SPECIAL) (SOLID)	FOOT	750		
*60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, EJ 7010 FRAME AND GRATE	EACH	40		
*60203805	CATCH BASINS, TYPE A, 5'-DIAMETER, EJ 7010 FRAME AND GRATE	EACH	2		
*60206905	CATCH BASINS, TYPE C, EJ 7010 FRAME AND LID	EACH	8		
*60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4		
*60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	18		
*60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		
*60224459	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		
*60224494	MANHOLES, TYPE A, 10'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3		
*60224494	MANHOLES, TYPE A, 10'-DIAMETER, EJ 7010 FRAME AND GRATE	EACH	5		
*60234200	INLETS, TYPE A, EJ 7010 FRAME AND LID	EACH	21		
*60400105	FRAMES, TYPE 1	EACH	10		
*60603500	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	5,500		
*66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	250		
*66900530	SOIL DISPOSAL ANALYSIS	EACH	5		
*66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L. SUM	1		
*66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L. SUM	1		
*66901006	REGULATED SUBSTANCES MONITORING	CAL DAY	10		
67100100	MOBILIZATION	L. SUM	1		
*70100100	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L. SUM	1		
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,750		
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2,750		
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	600		
*X0322881	TREE TRIMMING	EACH	50		

Schedule of Prices

Contractor's Name

Contractor's Address | State | Zip Code

Local Public Agency | County

Village of Oak Lawn | **Cook**

Route(s) (Street/Road Name)

Community High School District 218 Administration Building Stormwater Improvements Project

Schedule for Single Bid
(For complete information covering these items, see plans and specifications.)

Item Number	Items	Unit	Quantity	Unit Price	Total
*X0327067	DIP CASING PIPE 4"	FOOT	100		
*X0327067	DIP CASING PIPE 8"	FOOT	100		
*X1200087	JUNCTION CHAMBER NO. 1, 28' x 14', TYPE 1 FRAME, CLOSED LID	EACH	1		
*X1200092	JUNCTION CHAMBER NO. 2, 30' x 8', TYPE 1 FRAME, CLOSED LID	EACH	1		
*X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	15		
*X4023000	TEMPORARY ACCESS (ROAD)	EACH	15		
*X0327611	BRICK PAVER REMOVAL AND REINSTALLATION	SQ FT	100		
*Z0013798	CONSTRUCTION LAYOUT	L. SUM	1		
*X0326862	STRUCTURES TO BE ADJUSTED	EACH	15		
*X0326862	STRUCTURES TO BE ADJUSTED, SPECIAL	EACH	5		
*Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	61		
*XX007026	FENCE REMOVAL AND SALVAGE	FOOT	1,400		
*Z0004510	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	500		
*Z0055905	TEMPORARY CONSTRUCTION FENCE, 6'	FOOT	2,750		
*Z0056668	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"	FOOT	100		
*Z0056669	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 15"	FOOT	75		
*Z0056672	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 24"	FOOT	50		
*Z0056675	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 30"	FOOT	15		
*Z0056678	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 36"	FOOT	50		
*Z0056684	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 48"	FOOT	1,300		
*Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	250		
*NA	ADJUSTING SANITARY SERVICE LINE	FOOT	1,350		
*NA	AS-BUILT DRAWINGS	L. SUM	1		
*NA	ITEMS AS ORDERED BY THE ENGINEER	DOLLAR	300,000	$1.00	$300,000.00
*NA	AGLIME INFIELD MIX	TON	1,303		
*NA	16' HIGH 3 PANEL VINYL COATED BACKSTOP	EACH	3		
*NA	4' HIGH VINYL COATED CHAINLINK FENCE	FOOT	64		
*NA	6' HIGH VINYL COATED CHAINLINK FENCE	FOOT	64		
*NA	8' HIGH VINYL COATED CHAINLINK FENCE	FOOT	96		
*NA	12' HIGH VINYL COATED CHAINLINK FENCE	FOOT	64		
*NA	15' LONG METAL PLAYERS BENCHES	EACH	11		
*NA	CLAY BRICKS FOR PITCHERS MOUND	SQ FT	55		
*NA	4 ROW, 12' ALUMINUM BLEACHER	EACH	3		
*NA	1 PAIR OF FOOTBALL GOAL POSTS	EACH	1		

Schedule of Prices

Contractor's Name

Contractor's Address | State | Zip Code

Local Public Agency | County

Village of Oak Lawn | **Cook**

Route(s) (Street/Road Name)

Community High School District 218 Administration Building Stormwater Improvements Project

Schedule for Single Bid
(For complete information covering these items, see plans and specifications.)

Item Number	Items	Unit	Quantity	Unit Price	Total
A2000120	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2		
A2008120	TREE, TILIA CORDATA GREENSPIRE (GREENSPIRE LITTLE LEAF LINDEN), 2- 1/2" CALIPER, BALLED AND BURLAPPED	EACH	2		
A2004622	TREE, GLEDITSIA TRIACANTHOS INERMIS (THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2		
A2007620	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2		
A2005960	TREE, PLATANUS X ACERIFOLIA MORTON CIRCLE (LONDON PLANETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2		
20700220	POROUS GRANULAR EMBANKMENT	CU YD	90		
50200100	STRUCTURE EXCAVATION	CU YD	830		
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	245		
50300225	CONCRETE STRUCTURES	CU YD	115		
50300300	PROTECTIVE COAT	SQ YD	1,000		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	9,910		
50901760	PIPE HANDRAIL	FOOT	376		
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	5,650		
*Z0054400	STRUCTURAL FILL	CU YD	845		
*NA	LOCATING UNDERGROUND UTILITY	EACH	15		
*NA	NYOPLAST DRAIN BASIN, 24"	EACH	14		
*NA	PCC DRIVEWAY PAVEMENT	SQ YD	300		
*NA	SANITARY MANHOLE, 4' DIAMETER, TYPE A, TYPE 1 FRAME CLOSED LID	EACH	2		
*NA	SANITARY SEWER, 8" PVC SDR-26	FOOT	250		
*NA	SANITARY SERVICE CLEANOUT	EACH	4		
*NA	SANITARY SERVICE CONNECTION	EACH	4		
*NA	SANITARY SERVICE LINE, 6"	FOOT	160		
*NA	TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION	FOOT	4,000		
*NA	TIDEFLEX CHECK VALVE, 24"	EACH	1		
*NA	WATER MAIN LINE STOP, 6"	EACH	1		
*NA	WATER MAIN LINE STOP, 8"	EACH	1		
*NA	WATER MAIN LINE STOP, 12"	EACH	1		
				Bidder's Total Proposal	

1. Each pay item should have a unit price and a total price.
2. 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.
3. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
4. A bid may be declared unacceptable if neither a unit price or total price is shown.

Illinois Department of Transportation

Local Public Agency Proposal Bid Bond

Local Public Agency	County	Section Number
Village of Oak Lawn	Cook	

WE, _____ as PRINCIPAL, and

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

Principal

Company Name	Company Name
Signature & Date	Signature & Date
By:	By:
Title	Title

(If Principal 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	Signature of Attorney-in-Fact Signature & Date
	By:

STATE OF IL

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) day of _____ (Month and Year) .

Notary Public Signature & Date

(SEAL, if required by the LPA)

Date commission expires _____

Local Public Agency	County	Section Number
Village of Oak Lawn	Cook	

ELECTRONIC BID BOND

☐ **Electronic bid bond is allowed (box must be checked by LPA 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 LPA 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 & Date

Title

Illinois Department of Transportation

Affidavit of Availability

For the Letting of

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

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

Part I. Work Under Contract

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

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

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

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

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	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					
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Amount Uncompleted					
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Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted					

Notary

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

Officer or Director

Title

Signature

Date

Company

Address

City

State

Zip Code

Subscribed and sworn to before me

this _____ day of _____ , _____

_____

(Signature of Notary Public)

My commission expires _____

(Notary Seal)

☐ Add pages for additional contracts

Illinois Department of Transportation

Affidavit of Availability

For the Letting of

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

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

Company

Address

City State Zip Code

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Company

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City

State

Zip Code

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Officer or Director

Title

Signature

Date

Company

Address

City

State

Zip Code

Subscribed and sworn to before me

this _____ day of _____ , _____

_____

(Signature of Notary Public)

My commission expires _____

(Notary Seal)

Illinois Department of Transportation

Apprenticeship and Training Program Certification

Local Public Agency	County	Street Name/Road Name	Section Number
Village of Oak Lawn	Cook	CHSD 218 Stormwater	

All contractors are required to complete the following certification

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

☐ For the following deliver and install bidding 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 bidder's 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:

1. Except as provided in paragraph 4 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.

2. The undersigned bidder further certifies, for work to be performed by subcontract, that each of its subcontractors 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.

3. 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.

4. Except for any work identified above, if any bidder or subcontractor 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 workforces 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 afterward 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

Signature & Date

Title

Address	City	State	Zip Code

Illinois Department of Transportation

Affidavit of Illinois Business Office

Local Public Agency	County	Street Name/Road Name	Section Number
Village of Oak Lawn	Cook	CHSD 218 Stormwater	

I, _____ of _____ , _____ ,
Name of Affiant City of Affiant State of Affiant
being first duly sworn upon oath, state 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 the proposal described above, _____ , will maintain a business office in the
Bidder
State of Illinois, which will be located in _____ County, Illinois.
County

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 & Date

Print Name of Affiant

Notary Public

State of IL

County _____

Signed (or subscribed or attested) before me on _____ by
(date)

_____ , authorized agent(s) of
(name/s of person/s)

_____ .
Bidder

Notary Public Signature & Date

(SEAL)

My commission expires _____

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2025

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

ERRATA Standard Specifications for Road and Bridge Construction
(Adopted 1-1-22) (Revised 1-1-25)

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RECURRING SPECIAL PROVISIONS

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

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3	EEO	83
4	Specific EEO Responsibilities Nonfederal-Aid Contracts	93
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8	Temporary Stream Crossings and In-Stream Work Pads	106
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20	English Substitution of Metric Bolts	129
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22	Quality Control of Concrete Mixtures at the Plant	131
23	Quality Control/Quality Assurance of Concrete Mixtures	139
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LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

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Illinois Department of Transportation

Check Sheet for Recurring Special Provisions

Local Public Agency	County	Section Number
Village of Oak Lawn	Cook	

☐ **Check this box for lettings prior to 01/01/2025**

The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Recurring Special Provisions

Check Sheet #			Page No.
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2	☐	Subletting of Contracts (Federal-Aid Contracts)	82
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Local Public Agency	County	Section Number
Village of Oak Lawn	Cook	

The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Local Roads And Streets Recurring Special Provisions

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BDE SPECIAL PROVISIONS
For the August 1 and September 19, 2025 Lettings

The following special provisions indicated by a “check mark” are applicable to this contract and will be included by the Project Coordination and Implementation Section of the Bureau of Design & Environment (BDE).

File Name	#		Special Provision Title	Effective	Revised
80099	1	☐	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2022
80274	2	☑	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2022
80192	3	☐	Automated Flagger Assistance Devices	Jan. 1, 2008	April 1, 2023
80173	4	☐	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
80426	5	☐	Bituminous Surface Treatment with Fog Seal	Jan. 1, 2020	Jan. 1, 2022
* 80241	6	☐	Bridge Demolition Debris	July 1, 2009	
* 5053I	7	☐	Building Removal	Sept. 1, 1990	Aug. 1, 2022
* 5026I	8	☐	Building Removal with Asbestos Abatement	Sept. 1, 1990	Aug. 1, 2022
80460	9	☐	Cement, Finely Divided Minerals, Admixtures, Concrete, and Mortar	Jan. 1, 2025	
80384	10	☑	Compensable Delay Costs	June 2, 2017	April 1, 2019
* 80198	11	☐	Completion Date (via calendar days)	April 1, 2008	
* 80199	12	☐	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80461	13	☐	Concrete Barrier	Jan. 1, 2025	
80453	14	☐	Concrete Sealer	Nov. 1, 2023	
80261	15	☑	Construction Air Quality – Diesel Retrofit	June 1, 2010	Jan. 1, 2025
* 80029	16	☐	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Jan. 2, 2025
80467	17	☑	Erosion Control Blanket	Aug. 1, 2025	
80229	18	☑	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
80452	19	☐	Full Lane Sealant Waterproofing System	Nov. 1, 2023	
80447	20	☐	Grading and Shaping Ditches	Jan. 1, 2023	
80433	21	☐	Green Preformed Thermoplastic Pavement Markings	Jan. 1, 2021	Jan. 1, 2022
80456	22	☑	Hot-Mix Asphalt	Jan. 1, 2024	Jan. 1, 2025
80446	23	☐	Hot-Mix Asphalt - Longitudinal Joint Sealant	Nov. 1, 2022	Aug. 1, 2023
80438	24	☐	Illinois Works Apprenticeship Initiative – State Funded Contracts	June 2, 2021	April 2, 2024
80450	25	☐	Mechanically Stabilized Earth Retaining Walls	Aug. 1, 2023	Aug. 1, 2025
80464	26	☐	Pavement Marking Inspection	April. 1, 2025	
80468	27	☑	Pavement Patching	Aug. 1, 2025	
80441	28	☐	Performance Graded Asphalt Binder	Jan. 1, 2023	
80459	29	☐	Preformed Plastic Pavement Marking	June 2, 2024	
* 3426I	30	☐	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2022
80455	31	☐	Removal and Disposal of Regulated Substances	Jan. 1, 2024	April 1, 2024
80445	32	☑	Seeding	Nov. 1, 2022	
80457	33	☐	Short Term and Temporary Pavement Markings	April 1, 2024	April 2, 2024
80462	34	☐	Sign Panels and Appurtenances	Jan. 1, 2025	April 1, 2025
80469	35	☐	Slope Wall	Aug. 1, 2025	
80448	36	☐	Source of Supply and Quality Requirements	Jan. 2, 2023	
80340	37	☐	Speed Display Trailer	April 2, 2014	Jan. 1, 2022
80127	38	☐	Steel Cost Adjustment	April 2, 2004	Jan. 1, 2022
80397	39	☐	Subcontractor and DBE Payment Reporting	April 2, 2018	
80391	40	☐	Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
80463	41	☐	Submission of Bidders List Information	Jan. 2, 2025	Mar. 2, 2025
80437	42	☐	Submission of Payroll Records	April 1, 2021	Nov. 2, 2023
80435	43	☐	Surface Testing of Pavements – IRI	Jan. 1, 2021	Jan. 1, 2023
80465	44	☐	Surveying Services	April 1, 2025	
80466	45	☐	Temporary Rumble Strips	April 1, 2025	
80470	46	☐	Traffic Signal Backplate	Aug. 1, 2025	
* 20338	47	☐	Training Special Provisions	Oct. 15, 1975	Sept. 2, 2021
80429	48	☐	Ultra-Thin Bonded Wearing Course	April 1, 2020	Jan. 1, 2022
80439	49	☑	Vehicle and Equipment Warning Lights	Nov. 1, 2021	Nov. 1, 2022
80458	50	☐	Waterproofing Membrane System	Aug. 1, 2024	
80302	51	☐	Weekly DBE Trucking Reports	June 2, 2012	Jan. 2, 2025

	80454	52	☐	Wood Sign Support	Nov. 1, 2023	
	80427	53	☑	Work Zone Traffic Control Devices	Mar. 2, 2020	Jan. 1, 2025
*	80071	54	☐	Working Days	Jan. 1, 2002	

Highlighted items indicate a new or revised special provision for the letting.

An * indicates the special provision requires additional information from the designer, which needs to be submitted separately. The Project Coordination and Implementation Section will then include the information in the applicable special provision.

The following special provisions are in the 2025 Supplemental Specifications and Recurring Special Provisions.

File Name	Special Provision Title	New Location(s)	Effective	Revised
80434	Corrugated Plastic Pipe (Culvert and Storm Sewer)	Articles 542.03, 550.03, 1040.03, 1040.04(b), 1040.04(d) & 1040.08	Jan. 1, 2021	
80443	High Tension Cable Median Barrier Removal	Section 632	April 1, 2022	
80045	Material Transfer Device	Articles 406.03, 406.06(f), 406.13(b), 406.14 & 1102.02	Nov 15, 1999	Jan. 1, 2022
80410	Traffic Spotters	Article 701.13	Jan. 1, 2019	

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 Oak Lawn

Christopher B. Burke Engineering, Ltd. (CBBEL)

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
LOCAL QUALITY ASSURANCE/ QUALITY MANAGEMENT QC/QA
Effective: January 1, 2022

Replace the first five paragraphs of Article 1030.06 of the Standard Specifications with the following:

"**1030.06 Quality Management Program.** The Quality Management Program (QMP) will be Quality Control / Quality Assurance (QC/QA) according to the following."

Delete Article 1030.06(d)(1) of the Standard Specifications.

Revise Article 1030.09(g)(3) of the Standard Specifications to read:

"(3) If core testing is the density verification method, the Contractor shall provide personnel and equipment to collect density verification cores for the Engineer. Core locations will be determined by the Engineer following the document "Hot-Mix Asphalt QC/QA Procedure for Determining Random Density Locations" at density verification intervals defined in Article 1030.09(b). After the Engineer identifies a density verification location and prior to opening to traffic, the Contractor shall cut a 4 in. (100 mm) diameter core. With the approval of the Engineer, the cores may be cut at a later time."

Revise Article 1030.09(h)(2) of the Standard Specifications to read:

"(2) After final rolling and prior to paving subsequent lifts, the Engineer will identify the random density verification test locations. Cores or nuclear density gauge testing will be used for density verification. The method used for density verification will be as selected below.

Density Verification Method	
☒	Cores
☐	Nuclear Density Gauge (Correlated when paving ≥ 3,000 tons per mixture)

Density verification test locations will be determined according to the document "Hot-Mix Asphalt QC/QA Procedure for Determining Random Density Locations". The density testing interval for paving wider than or equal to 3 ft (1 m) will be 0.5 miles (800 m) for lift thicknesses of 3 in. (75 mm) or less and 0.2 miles (320 m) for lift thicknesses greater than 3 in. (75 mm). The density testing interval for paving less than 3 ft (1 m) wide will be 1 mile (1,600 m). If a day's paving will be less than the prescribed density testing interval, the length of the day's paving will be the interval for that day. The density testing interval for mixtures used for patching will be 50 patches with a minimum of one test per mixture per project.

If core testing is the density verification method, the Engineer will witness the Contractor coring, and secure and take possession of all density samples at the

density verification locations. The Engineer will test the cores collected by the Contractor for density according to Illinois Modified AASHTO T 166 or AASHTO T 275.

If nuclear density gauge testing is the density verification method, the Engineer will conduct nuclear density gauge tests. The Engineer will follow the density testing procedure detailed in the document "Illinois Modified ASTM D 2950, Standard Test Method for Density of Bituminous Concrete In-Place by Nuclear Method".

A density verification test will be the result of a single core or the average of the nuclear density tests at one location. The results of each density test must be within acceptable limits. The Engineer will promptly notify the Contractor of observed deficiencies."

Revise the seventh paragraph and all subsequent paragraphs in Section D. of the document "Hot-Mix Asphalt QC/QA Initial Daily Plant and Random Samples" to read:

"Mixtures shall be sampled from the truck at the plant by the Contractor following the same procedure used to collect QC mixture samples (Section A). This process will be witnessed by the Engineer who will take custody of the verification sample. Each sample bag with a verification mixture sample will be secured by the Engineer using a locking ID tag. Sample boxes containing the verification mixture sample will be sealed/taped by the Engineer using a security ID label."

Cook County Prevailing Wage Rates posted on 7/15/2025

						Overtime										
Trade Title	**Rg**	**Type**	**C**	**Base**	**Foreman**	**M-F**	**Sa**	**Su**	**Hol**	**H/W**	**Pension**	**Vac**	**Trng**	**Other Ins**	**Add OT 1.5x owed**	**Add OT 2.0x owed**
ASBESTOS ABT-GEN	All	ALL		51.40	52.40	1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00
ASBESTOS ABT-MEC	All	BLD		42.02	45.38	1.5	1.5	2.0	2.0	16.44	16.64	0.00	0.92		3.37	6.73
BOILERMAKER	All	BLD		58.91	64.21	2.0	2.0	2.0	2.0	7.07	27.02	0.00	3.69	2.31	0.00	39.30
BRICK MASON	All	BLD		53.06	58.37	1.5	1.5	2.0	2.0	12.95	26.26	0.00	1.57	0.00	4.23	8.45
CARPENTER	All	ALL		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00
CEMENT MASON	All	ALL		53.10	55.10	2.0	1.5	2.0	2.0	18.43	24.00	0.00	1.25		2.50	5.00
CERAMIC TILE FINISHER	All	BLD		49.09	49.09	1.5	1.5	2.0	2.0	13.25	17.61	0.00	1.37	0.00	5.57	11.14
CERAMIC TILE LAYER	All	BLD		57.04	62.04	1.5	1.5	2.0	2.0	13.25	21.60	0.00	1.50	0.00	7.63	15.26
COMMUNICATION ELECTRICIAN	All	BLD		51.14	56.25	1.5	1.5	2.0	2.0	16.70	14.48	1.40	1.27	0.10	0.00	0.00
ELECTRIC PWR EQMT OP	All	ALL		64.58	70.87	1.5	1.5	2.0	2.0	12.99	22.45	0.00	3.66	0.00	0.00	0.00
ELECTRIC PWR GRNDMAN	All	ALL		50.37	70.87	1.5	1.5	2.0	2.0	10.13	17.51	0.00	2.85	0.00	0.00	0.00
ELECTRIC PWR LINEMAN	All	ALL		64.58	70.87	1.5	1.5	2.0	2.0	12.99	22.45	0.00	3.66	0.00	0.00	0.00
ELECTRICIAN	All	ALL		57.75	63.53	1.5	1.5	2.0	2.0	19.34	21.13	1.60	1.87	0.30	0.00	0.00
ELEVATOR CONSTRUCTOR	All	BLD		70.68	79.52	2.0	2.0	2.0	2.0	16.28	21.36	5.65	0.80		0.00	0.00
FENCE ERECTOR	All	ALL		52.25	54.75	1.5	1.5	2.0	2.0	14.29	19.02	0.00	1.00	0.00	0.00	0.00
GLAZIER	All	BLD		53.55	55.05	1.5	2.0	2.0	2.0	16.04	26.64	0.00	2.30	0.00	0.00	0.00
HEAT/FROST INSULATOR	All	BLD		56.02	59.38	1.5	1.5	2.0	2.0	16.44	19.88	0.00	0.92		4.99	9.97
IRON WORKER	All	ALL		62.46	65.96	2.0	2.0	2.0	2.0	19.05	27.04	0.00	0.49	0.00	0.00	0.00
LABORER	All	ALL		51.40	52.15	1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00
LATHER	All	ALL		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00
MACHINIST	All	BLD		60.39	64.39	1.5	1.5	2.0	2.0	11.43	9.95	1.85	1.47	0.00	0.00	0.00
MARBLE FINISHER	All	ALL		40.21	54.60	1.5	1.5	2.0	2.0	12.95	23.81	0.00	0.98	0.00	3.00	6.00
MARBLE SETTER	All	BLD		52.00	57.20	1.5	1.5	2.0	2.0	12.95	25.57	0.00	1.25	0.00	3.88	7.76
MATERIAL TESTER I	All	ALL		41.40		1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00
MATERIALS TESTER II	All	ALL		46.40		1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00
MILLWRIGHT	All	ALL		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00

Cook County Prevailing Wage Rates posted on 7/15/2025

OPERATING ENGINEER	All	BLD	1	64.80	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	2	63.50	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	3	60.95	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	4	59.20	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	5	68.55	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	6	65.80	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	7	67.80	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	1	73.95	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	2	72.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	3	67.95	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	4	63.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	5	75.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	6	63.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	1	63.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	2	62.45	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	3	60.40	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	4	59.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	5	57.80	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	6	66.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	7	64.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
ORNAMENTAL IRON WORKER	All	ALL		59.26	62.76	2.0	2.0	2.0	2.0	14.86	27.70	0.00	2.25	0.00	0.00	0.00
PAINTER	All	ALL		54.30	61.09	1.5	1.5	1.5	2.0	16.26	17.59	0.00	1.86	0.00	0.00	0.00
PAINTER - SIGNS	All	BLD		46.76	52.53	1.5	1.5	2.0	2.0	8.20	16.81	0.00	0.00	0.00	0.00	0.00
PILEDRIVER	All	ALL		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00
PIPEFITTER	All	BLD		58.50	61.50	1.5	1.5	2.0	2.0	15.15	22.85	0.00	3.12	0.00	0.00	0.00
PLASTERER	All	BLD		51.10	54.17	1.5	1.5	2.0	2.0	18.43	22.10	0.00	1.25	0.00	0.00	0.00
PLUMBER	All	BLD		60.50	64.15	1.5	1.5	2.0	2.0	19.10	17.94	0.00	1.98		0.00	0.00
ROOFER	All	BLD		52.00	57.00	1.5	1.5	2.0	2.0	12.20	17.59	0.00	1.14	0.00	0.00	0.00
SHEETMETAL WORKER	All	BLD		54.58	58.95	1.5	1.5	2.0	2.0	15.88	28.92	0.00	1.20	0.00	0.00	0.00

Cook County Prevailing Wage Rates posted on 7/15/2025

SIGN HANGER	All	BLD		36.72	39.66	1.5	1.5	2.0	2.0	7.45	4.70	0.00	0.00	0.00	0.00	0.00
SPRINKLER FITTER	All	BLD		60.00	62.75	1.5	1.5	2.0	2.0	14.95	19.40	0.00	1.10	0.00	0.00	0.00
STEEL ERECTOR	All	ALL		62.46	65.96	2.0	2.0	2.0	2.0	19.05	27.04	0.00	0.49	0.00	0.00	0.00
STONE MASON	All	BLD		53.06	58.37	1.5	1.5	2.0	2.0	12.95	26.26	0.00	1.57	0.00	4.23	8.45
SURVEY WORKER	All	BLD		58.45	59.45	1.5	1.5	2.0	2.0	19.10	14.40	0.00	1.59		0.00	0.00
SURVEY WORKER	All	HWY		58.45	59.45	1.5	1.5	2.0	2.0	19.10	14.40	0.00	1.59		0.00	0.00
TERRAZZO FINISHER	All	BLD		51.44	51.44	1.5	1.5	2.0	2.0	13.25	18.87	0.00	1.41	0.00	4.45	8.89
TERRAZZO MECHANIC	All	BLD		55.35	58.85	1.5	1.5	2.0	2.0	13.25	20.26	0.00	1.46	0.00	4.70	9.39
TRAFFIC SAFETY WORKER I	All	HWY		43.40	45.40	1.5	1.5	2.0	2.0	10.08	10.08	0.00	1.05	0.00	0.00	0.00
TRAFFIC SAFETY WORKER II	ALL	HWY		44.40	46.40	1.5	1.5	2.0	2.0	10.08	10.08	0.00	1.05	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	1	45.55	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	2	45.80	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	3	46.00	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	4	46.20	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	1	44.83	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	2	44.98	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	3	45.18	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	4	45.38	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TUCKPOINTER	All	BLD		52.53	53.53	1.5	1.5	2.0	2.0	11.05	23.16	0.00	1.46	0.00	0.00	0.00

Legend

Rg Region
Type Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers
C Class
Base Base Wage Rate
OT M-F Unless otherwise noted, OT pay is required for any hour greater than 8 worked each day, Mon through Fri. The number listed is the multiple of the base wage.
OT Sa Overtime pay required for every hour worked on Saturdays
OT Su Overtime pay required for every hour worked on Sundays
OT Hol Overtime pay required for every hour worked on Holidays
H/W Health/Welfare benefit
Vac Vacation
Trng Training

Other Ins Employer hourly cost for any other type(s) of insurance provided for benefit of worker.

Explanations COOK COUNTY

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

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

EXPLANATION OF CLASSES

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

CERAMIC TILE FINISHER

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

COMMUNICATIONS ELECTRICIAN

Installation, operation, inspection, maintenance, repair and service of radio, television, recording, voice sound vision production and reproduction, telephone and telephone interconnect, facsimile, data apparatus, coaxial, fibre optic and wireless equipment, appliances and systems used for the transmission and reception of signals of any nature, business, domestic, commercial,

education, entertainment, and residential purposes, including but not limited to, communication and telephone, electronic and sound equipment, fibre optic and data communication systems, and the performance of any task directly related to such installation or service whether at new or existing sites, such tasks to include the placing of wire and cable and electrical power conduit or other raceway work within the equipment room and pulling wire and/or cable through conduit and the installation of any incidental conduit, such that the employees covered hereby can complete any job in full.

MARBLE FINISHER

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

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

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

OPERATING ENGINEER - BUILDING

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

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

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

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

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

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

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro

Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

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

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

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

Class 6. Field Mechanics and Field Welders

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

OPERATING ENGINEER - FLOATING

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

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

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

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

Class 5. Friction or Lattice Boom Cranes.

Class 6. ROV Pilot, ROV Tender

SURVEY WORKER

Cook County Prevailing Wage Rates posted on 7/15/2025

Operates survey equipment (such as levels, transits, data collectors, GPS and robotic total stations) for the purpose of performing construction layout and/or grade checking.

SURVEY FOREMAN

Operates survey equipment (such as levels, transits, data collectors, GPS and robotic total stations) for the purpose of performing construction layout and/or grade checking; oversees survey crew operations; and/or coordinates work of survey crews.

TERRAZZO FINISHER

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

TRAFFIC SAFETY Worker I

Traffic Safety Worker I - work associated with the delivery, installation, pick-up and servicing of safety devices during periods of roadway construction, including such work as set-up and maintenance of barricades, barrier wall reflectors, drums, cones, delineators, signs, crash attenuators, glare screen and other such items, and the layout and application or removal of conflicting and/or temporary roadway markings utilized to control traffic in construction zones, as well as flagging for these operations.

TRAFFIC SAFETY WORKER II

Work associated with the installation and removal of permanent pavement markings and/or pavement markers including both installations performed by hand and installations performed by truck.

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

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

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

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

trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

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

Other Classifications of Work:

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

LANDSCAPING

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

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

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

Cook County Prevailing Wage Rates posted on 7/15/2025

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SPECIAL PROVISIONS

The "Standard Specifications for Road and Bridge Construction" adopted January 1, 2022, as amended by the Supplemental Specifications and Recurring Special Provisions, adopted January 1, 2025; the Bureau of Design and Environment (BDE) Special Provisions indicated on the respective Check Sheets herein, the latest edition of the "Manual on Uniform Traffic Control Devices", "Manual of Test Procedures", and the "Manual for Materials Inspection," adopted January 1, 2006, all issued by the State of Illinois Department of Transportation, hereinafter referred to as the "Standard Specifications", and the "Standard Specification for Water & Sewer Main Construction in Illinois", Eighth Edition, are hereby incorporated by reference and shall apply to and govern the construction of the Community High School District 218 Administration Building (CHSD 218) Stormwater Improvements Project, in the Village of Oak Lawn, Cook County, Illinois.

The following SPECIAL PROVISIONS supplement the STANDARD SPECIFICATIONS shall apply to and govern the construction of the Community High School District 218 Administration Building (CHSD 218) Stormwater Improvements Project, in the Village of Oak Lawn, Cook County, Illinois. In case of conflict with any part or parts of said specifications, said SPECIAL PROVISIONS shall take precedence and shall govern.

Project Location

The proposed improvements are located on Kilpatrick Avenue and 105th Street within the Village, as well as the park located on the south property of the Community High School District 218 Administration Building. The total project length is approximately 6,500 linear feet (1.23 miles), with all work located in the Village of Oak Lawn, Cook County, Illinois, 60453.

Description of Improvement

The proposed work is officially known as "COMMUNITY HIGH SCHOOL DISTRICT 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT (CHSD 218 STORMWATER IMPROVEMENTS PROJECT)" and further described as mass grading to construct a flood storage detention basin with an underdrain system, large diameter storm sewer installation, ball field and site amenities, roadway resurfacing, and all necessary restoration as further described in the contract documents for the said work prepared by Christopher B. Burke Engineering, Ltd. (CBBEL). Work shall be completed with the use of Local and MWRD Partnership Funding.

Availability of Contract Documents

The Bidding Documents can be downloaded from QuestCDN via the Christopher B. Burke Engineering Ltd. (CBBEL) website http://cbbel.com/bidding-info/ or at www.questcdn.com under Login using QuestCDN **#9776854** for a non-refundable charge of $40.00. A QuestCDN login will be required. Contact QuestCDN.com at 952-233-1632 or info@questcdn.com for assistance in membership registration and downloading this digital project information. Contractors must purchase bid documents and be shown on the Bidder's Planholder List in order to bid. Bids received from contractors who are not in the Bidder's Planholder List will be rejected.
Any Addenda will be uploaded to the QuestCDN website with notifications to those bidders and suppliers who have purchased bid documents and are shown on the Planholder List.

Bid Security

All bid proposals must be accompanied by a bid bond, certified check, or bank cashier's check payable to the Village of Oak Lawn for five (5) percent of the amount of the bid as provided in the General Provisions. No proposals or bids will be considered unless accompanied by such bond, or check.

Prevailing Wage Rate

All CONTRACTORS and subcontractors bidding for work involving fixed works constructed for public use must pay prevailing wages as required by the Illinois Prevailing Wage Act (820 ILCS 130/2).

If the prevailing wage rates are revised by the Illinois Department of Labor at any time during the term of the contract, the revised prevailing wage rates shall apply to the work performed pursuant to the contract, and all CONTRACTORS and subcontractors shall pay their employees in accordance with the new prevailing wage rate.

Performance Bond

The successful Bidder for the construction of the improvements will be required to enter into Performance and Labor and Material Payment bonds equal to 100% of the amount of the bid with sureties to be approved by the Mayor and Village Board, when entering into the contract for the work, which shall be conditioned upon the proper and faithful performance by the Contractor of the work specified in accordance with the contract documents therefore, and the ordinances providing for the work.

Construction Start Date

Construction shall begin, unless otherwise approved by the Village, 14 calendar days following award of the contract by the Owner. Construction shall not commence prior to November 3, 2025, unless written approval is provided by the Village.

Interim Start / Completion Dates

Work must begin at the detention basin on Community High School District 218 property on November 3, 2026. The Contractor has the option to begin storm sewer mainline work concurrently; however, this must be approved in writing by the Village for any storm sewer mainline to begin prior to March 1, 2026 (weather dependent). A detailed construction schedule must be submitted at the Preconstruction Meeting to show the plan to complete this plan. Any open holes shall be appropriately steel plated and removed by the Contractor when directed by the Engineer at no additional cost to the project. Steel plates shall not be in place over the winter when inclement weather is expected and the Village plows will be in full force.

Construction Completion Date

All work, including punchlist items, shall be completed by October 23, 2026. Liquidated Damages of $6,775 per Calendar Day will be assessed if this Final Completion Date is not met.

Stockpile Storage

The Village shall determine designated material and spoil stockpile locations for all roadways during construction. Utilizing any other locations not approved by the Village shall result in a $1,000 fine per occurrence per location. Absolutely no storage of spoil or materials on side streets without prior written approval from the Village. No materials shall be stored within 3 feet of trees.

Seeding Establishment

The Contractor is required to maintain/water all landscaped areas and reseed as necessary until 90% establishment as approved by the Engineer in the field.

Notice

A minimum of forty-eight (48) hour notice will be given to the Village prior to starting work, or restarting work after some absence of work for any reason.

Pre-Construction Meeting

Upon execution of the contract with the successful bidder, the Village will schedule a meeting with the Contractor. The Contractor shall submit his progress schedule, QC Plan, any material submittals, and Traffic Control Plan at or before this meeting. In attendance shall be the Contractor's representative on the job, i.e., Construction Superintendent or Foreman. On or before this meeting the Contractor shall inspect the work site to determine the existing conditions.

1. Purpose – To discuss and resolve any problems regarding the work prior to the Contractor starting work. This includes the schedule of construction operations and interpretation of the Special Provisions and/or plans.
2. Attendance – Village Engineer, representatives of other Village departments, Contractor, Utility Company representatives, if utility work or adjustments is required. Also, any other person as may be deemed necessary.
3. Specification information regarding source of materials, responsibility for testing of materials, who is QC Manager, work to be sublet, responsibility for maintaining traffic/detours and any other problems relating to work will be discussed.
4. A roster will be prepared which will list the names, addresses and telephone numbers of all parties concerned. Twenty-four (24) hour a day and emergency contact persons and phone numbers shall be listed.

Structures

Within 3 days of paving, the contractor shall clean all structure pickholes and open all manholes within the pavement and curbline, which cost shall be included in the cost of the proposed structures.

Drainage Structures

The cost to core any proposed storm sewer pipes into existing (or proposed) drainage structures shall be considered incidental to the proposed pipe. Additionally, the cost to patch any existing holes in the existing drainage structures shall also be considered incidental to the proposed pipe.

Material Orders

Contractor shall order all materials with long lead times within 5 working days from issuance of the Notice of Award to minimize any project delays and meet project completion date.

Construction Schedule

Contractor shall submit a detailed construction schedule at the Preconstruction Meeting for approval by the Engineer. Concrete removal and replacement must be scheduled so that work is limited to one side of the street at a time, unless otherwise authorized by the ENGINEER.

The CONTRACTOR must schedule the work such that at the completion of each working day all exposed subgrade shall be covered with the subbase material and graded to the ENGINEER'S satisfaction to provide transitions to the existing adjoining pavement and enable maintenance of traffic through the work area.

The CONTRACTOR must notify the Village at least 48 hours in advance of any anticipated driveway closures. Driveway closures can occur only after the affected residents or businesses have been given a minimum of 24 hours written notice from the Village. Work must be scheduled so that driveway closures shall not exceed a total of 10 Calendar Days. If the CONTRACTOR fails to restore all access to driveways within the time limits specified above, the ENGINEER will impose a daily monetary deduction for each 24-hour period (or portion thereof) the deficiency exists. This time period will begin with the time of notification to the CONTRACTOR and end with the Resident Engineer's acceptance of driveway access. For this project, the daily deduction will be one thousand dollars per day per driveway.

In addition, if the CONTRACTOR fails to respond, the ENGINEER may correct the deficiencies and the cost thereof will be deducted from monies due or which may become due from the CONTRACTOR. This corrective action will in no way relieve the CONTRACTOR of his/her contractual requirements or responsibilities. No additional compensation will be given for the use of temporary stone to fulfill this requirement and should be included in the cost of the contract.

Affirmative Action Goals – MWRD Stormwater Partnership

The Contractor must comply with the MWRDGC's Affirmative Action Requirements and Affirmative Action Ordinance (included in this specifications booklet). Affirmative Action Goals for this project are based on MWRD's contribution amount ($6,550,000 maximum or 50.0% of the total construction cost, whichever is less) and are as follows:

- **Minority-Owned Business Enterprises (MBE) – 20% of MWRD's contribution amount ($6,500,000 maximum or 50.0% of the total construction cost, whichever is less) (requirement)**
- **Women-Owned Business Enterprises (WBE) – 10% of MWRD's contribution amount ($6,500,000 maximum or 50.0% of the total construction cost, whichever is less) (requirement)**
- **Veteran-Owned Business Enterprises (VBE) – 3% of MWRD's contribution amount ($6,500,000 maximum or 50.0% of the total construction cost, whichever is less) (requirement)**

Scott Galloway will be the Inspection Officer (708-588-3599, GallowayS2@MWRD.org) and must receive 48-hour advance notice prior to the following milestones:

1. After mobilization and installation of initial erosion and sediment control practices, prior to any soil disturbance;
2. During excavation for the construction of qualified sewer construction;

No sanitary sewer shall be put in service until it has been approved by the District.

Trucking/Staging Restrictions

No large (semis; large construction machinery) trucks are allowed to stage on Village residential streets. Each incident where trucks stage on Village residential streets shall be a penalty of $5,000 per incident per truck.

The Contractor shall utilize Pulaski Avenue, 111th Street, and Cicero Avenue for access to the project site. **The Contractor shall only access the detention basin site from Kilpatrick Avenue.** The Contractor shall submit to the Village, in writing, any formal requests to deviate from this plan.

Under no circumstances will truck traffic or material staging be allowed to occur on School District property.

Winter Conditions

The Contractor shall not recover additional time nor money for any winter delays (Fall/Winter 2025 into Spring 2026).

Geotechnical Conditions

The Contractor shall be responsible for reviewing any and all geotechnical reports prior to submitting a bid. Special attention shall be called to the soil types and conditions within the project limits; means and methods for expeditious and proper construction shall be the responsibility of the Contractor. Any cobbles encountered on 105th Street shall not be paid for separately, but shall be included in the cost of the proposed storm sewer pay item.

TYPICAL ROADWAY CONSTRUCTION SEQUENCE

The following is the anticipated **suggested** construction sequence for each street. This sequence shall commence on the first day/date that construction for that project location begins. The Contractor shall provide a construction schedule for each Stage of the project for approval by the Engineer prior to any work commencing at that Stage. Site cleanup shall occur at the end of each working day.

1. Underground construction work to be completed.
    a. **The Contractor shall complete all underground utility installation and backfill to existing adjacent finished grade prior to removing any existing pavement outside of the trench limits. The existing pavement cannot be removed without approval from the Engineer.**
    b. **Any temporary aggregate required (outside of the trench backfill maximum pay limits) required to bring the roadway to existing finished grade until permanent paving operations can be completed shall be considered incidental to the item for TRENCH BACKFILL, SPECIAL.**
    c. **It shall be the Contractor's responsibility to maintain the proposed utility trench and all drivable surfaces until final utility installation is complete. This shall be considered incidental to the item for TRENCH BACKFILL, SPECIAL.**
2. Complete all concrete construction work (i.e.: curb & gutter removal and replacement, driveway apron removal and replacement, and sidewalk removal and replacement) within seven (7) Calendar Days (plus three (3) days of cure time for driveway aprons) for a total of 10 Calendar Days.
3. Pavement and/or Surface removal, proof roll, patch base course and/or perform aggregate base repair and preparation of base and/or pavement patching as necessary, install aggregate or HMA base/binder/leveling binder course, make all adjustments to structures, proof roll binder course, within five (5) working days.
4. Prepare parkways and lay sod within three (3) working days.
5. Perform third (3rd) site cleanup.
6. Install final surface course within five (5) working days after the installation of leveling binder or binder course.
7. Complete final cleanup of the work site within one (1) working day of the surface course installation.

Liquidated Damages

The CONTRACTOR shall be charged liquidated damages of $2,000 each working day or $1,425 each calendar day (as specified below) that the above time frames are not met for the following work:

- Concrete work (7 working days per street)
- Completion of roadway work (pavement removal through placement of surface course) (10 working days per street).

CONSTRUCTION NOTICES

It shall be the CONTRACTOR's responsibility to produce and distribute all construction notifications to residents/businesses. Notifications shall identify the street name and side of the street affected. This work will not be measured for payment but shall be included in the total contract cost. The construction notices shall be reviewed and approved by the ENGINEER prior to being distributed. Notices shall be issued at the following stages:

	Activity	Notice Period Required
1.	Prior to beginning construction.	1 week prior to starting work
2.	Prior to curb removal on the first side.	1 day prior
3.	Prior to curb removal on the second side.	1 day prior
4.	Prior to pavement removal.	1 day prior
5.	Prior to placement of binder course.	1 day prior
6.	Prior to placement of surface course.	1 day prior
7.	Prior to any scheduled water shutdowns.	1 day prior

The CONTRACTOR will also be responsible for distributing and/or redistributing notices in case of any delays due to inclement weather or for any other reason for extended stoppages (i.e. strikes) in the construction schedule.

Notices shall not be placed in mailboxes. Notices shall be placed in the door or attached to the door handle using a plastic bag.

Notices shall be considered distributed when all affected residents have received notices, as well as a copy delivered and/or emailed to Public Works. The copy to Public Works shall be delivered the same day it is distributed to the residents.

Should the CONTRACTOR fail to distribute or post notices per the request of the VILLAGE, the CONTRACTOR shall pay to the VILLAGE the sum of $250 per activity, not as a penalty, but as liquidated damages.

Also, CONTRACTOR shall be responsible for producing and posting "No Parking" notices on the sides of the streets prior to curb removal. Should the CONTRACTOR fail to distribute or post notices per the request of the VILLAGE, the CONTRACTOR shall pay to the VILLAGE the sum of $250 per residence, per incident, not as a penalty but as liquidated damages.

AWARD OR REJECTION

The Owner (Village of Oak Lawn) reserves the right to accept or reject any and all proposals or to waive technicalities, or to accept or reject any item of any proposal, and to disregard any informality on the bids and bidding, when in its opinion the best interest of the Village will be served by such actions. After the bid opening time, no bid shall be withdrawn or canceled for a period of one hundred twenty (120) calendar days. All bids must submit a bid for all items to have a responsive bid. Failure to comply with all items of this provision will be a basis for rejecting the bid.

FAILURE TO COMPLETE THE WORK ON TIME

Delete Article 108.09 of the STANDARD SPECIFICATIONS and substitute with the following:

Time is of the essence to the contract. Should the CONTRACTOR fail to complete the work on or before the completion date stipulated in the contract or within such extended time as may have been allowed, the CONTRACTOR shall be liable and shall pay to the Village the sum of $1,425 per calendar day, not as a penalty but as liquidated damages, for each day of overrun in the contract time or such extended time as may have been allowed. Should the CONTRACTOR fail to complete the work on or before the interim allowable working days per street, the CONTRACTOR shall be liable and pay to the Village the sum of $2,000 per working day per street, not as a penalty but as liquidated damages, for each day of overrun. The liquidated damages for failure to complete the contract on time are approximate, due to the impracticality of calculating and proving actual delay costs. The liquidated damage amount establishes the cost of delay to account for administration, engineering, inspection, and supervision during periods of extended and delayed performance. The costs of delay represented by the liquidated damage amount are understood to be a fair and reasonable estimate of the costs that will be borne by the Village during extended and delayed performance by the CONTRACTOR for the work, remaining incidental work, correction of work improperly completed, or repair of work damaged as a result of the CONTRACTOR. The liquidated damage amount specified will accrue and be assessed until final completion of the total physical work of the contract even though the work may be substantially complete. The Village will deduct these liquidated damages from any monies due or to become due to the CONTRACTOR from the Village.

VANDALISM

Special attention is called to Article 107.30 of the STANDARD SPECIFICATIONS. Any defaced work shall be corrected or replaced by the CONTRACTOR at his sole expense prior to final payment. The VILLAGE shall cooperate with the CONTRACTOR to minimize vandalism, but the CONTRACTOR shall be ultimately responsible to correct any damage.

STREET CLEANING

Special attention shall be paid to Section 107.15 of the STANDARD SPECIFICATIONS. The roadway pavement shall be mechanically swept and cleaned once per week at a minimum. Contractor shall mechanically sweep any location when directed by the ENGINEER. The water for this will be supplied by the VILLAGE from Public Works, 5532 W. 98th Street. If the CONTRACTOR fails to clean the pavement, sidewalk or parkways on or adjacent to the section each day under construction to the satisfaction of the VILLAGE and ENGINEER at any time during the contract, the VILLAGE will notify the CONTRACTOR at which time the CONTRACTOR will have 24 hours to respond.

Time is of the essence to the contract. Should the CONTRACTOR fail to respond within 24 hours or upon responding fail to diligently clean the pavement, sidewalk or parkways on or adjacent to the section under construction, the CONTRACTOR shall be liable and shall pay to the VILLAGE the sum of $500 per calendar day, not as a penalty but as liquidated damages, for each day that the CONTRACTOR fails to either respond or diligently clean the pavement, sidewalk or parkways. The liquidated damages for failure to respond or diligently clean the pavement, sidewalk or parkways are approximate, due to the impracticality of calculating and proving actual costs. The liquidated damage amount establishes the cost to account for increased administration, engineering, liability, emergency response, inspection, and supervision during periods of extended time of the presence of dirt and debris on pavement, sidewalks or parkways. The costs represented by the liquidated damage amount are understood to be a fair and reasonable estimate of the costs that will be borne by the VILLAGE during extended and delayed performance by the CONTRACTOR of the cleaning of the pavement, sidewalk or parkways. The VILLAGE will deduct these liquidated damages from any monies due or to become due to the CONTRACTOR from the VILLAGE.

Failure to respond gives the VILLAGE the right to complete the work and back-charge the CONTRACTOR in addition to assessing liquidated damages.

DUST CONTROL WATERING

Special attention shall be paid to Section 107.36 of the STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. Dust control procedures shall be performed regularly to minimize the dust resulting from construction operations.

Dust shall be controlled by the by the uniform application of sprinkled water to exposed surfaces and shall be applied by the CONTRACTOR at a minimum of once per week or as directed by the ENGINEER, in a manner meeting his approval. The water for this will be supplied by the Village and obtained at the Village of Oak Lawn Public Works located at 5532 West 98th Street, Oak Lawn, IL.

All equipment used for this work shall meet with the ENGINEER'S approval and all spray nozzles shall be capable of providing an even distribution of water.

The cost of this work shall be included in the unit prices bid and no additional compensation will be allowed.

Should the CONTRACTOR fail to respond within 24 hours to a request for dust control watering or, upon responding, fail to diligently and adequately apply water for dust control purposes on or adjacent to the section under construction, the CONTRACTOR shall be liable and shall pay to the VILLAGE the sum of $500 per calendar day, not as a penalty but as liquidated damages, for each day that the CONTRACTOR fails to either respond or diligently and adequately apply water for dust control purposes. The liquidated damages for failure to respond or diligently and adequately apply water for dust control purposes are approximate, due to the impracticality of calculating and proving actual costs. The liquidated damage amount establishes the cost to account for increased administration, engineering, liability, emergency response, inspection, and supervision during periods of extended time of the presence of dirt and debris on pavement, sidewalks or parkways. The costs represented by the liquidated damage amount are understood to be a fair and reasonable estimate of the costs that will be borne by the VILLAGE during extended and delayed performance by the CONTRACTOR of the application of water for dust control. The VILLAGE will deduct these liquidated damages from any monies due or to become due to the CONTRACTOR from the VILLAGE.

To rent a hydrant meter please call the Water Division at 708-499-7747 (Monday thru Friday 8:30am to 4:30pm). There is a $2,000 deposit required that must be given at time of rental (Certified Check, Cashier's Check, Money Order, or Charge Card – Payable to the Village of Oak Lawn).

There are daily fees as well as usage fees that can change but the current fees are listed. (0 to 9,000 gallons at $7.22 per 1,000 gallons, 9,001 to 30,000 gallons at $7.57 per 1,000 gallons, over 30,000 gallons at $7.92 per 1,000 gallons.

Pick up water meter at 9100 S. Kilbourn, Reich Water Plant.

FIRE HYDRANT USE PERMIT 2024

Account Number: 810-8120-8110-32207-9999 Date Issued: _____

Permittee Information (Please Type or Print):

Permittee/Company Name: _____

Street Address: _____ City/State/Zip: _____

Business Phone: _____ E-Mail: _____

Project Manager/Contact Person: _____ Phone: _____

Job Site/Location: _____

Date Fire Hydrant Meter and Hydrant Wrench must be returned: _____
(Note: Return date not more than 15 days from date of issuance) (MM/DD/YY)

It is agreed and understood by the Permittee and/or his/her representative that, in the event that the hydrant meter and hydrant wrench are not returned within three (3) days of the return date indicated above, the Village will send written notice to the Permittee that the meter and wrench must be returned. Failure by the Permittee to return the meter and wrench within seven (7) days of the indicated return date will result in forfeiture of the entire deposit fee to the Village of Oak Lawn, and the Village will bill the Permittee for amount of water used, as determined by the Department of Public Works, Water Division.

NOTE!! LARGE HYDRANT METER MUST BE SUPPORTED FROM THE GROUND TO THE HYDRANT CONNECTION!!

(DEPARTMENT OF PUBLIC WORKS/WATER DIVISION USE ONLY) Phone 499-7747

Hydrant Meter#: _____ Serial #: _____

Hydrant Wrench Issued YES ____ NO ____ Reading In _____

Reading Out _____

Date Fire Hydrant Meter and Hydrant Wrench Returned: _____

Deposit Large Hyd Meter (3") $2,000.00 =$ _____

Daily Use Fees: _____ Days @ $6.00 Per Day =$ _____

Total Gallons Used: _____ Gallons SEE ORD. SECTION 9-4B-2 =$ _____

Damage Charges (if any) =$ _____

Total Charges =$ _____

Amount to be Refunded =$ _____

OR Additional Amount Due =$ _____

Meter Issued

Signed: _____
(Water Division)

Signed: _____
(Permittee)

Date: _____

Meter Returned

Signed: _____
(Water Division)

Signed: _____
(Permittee)

Date: _____

Certified Check, Cashier's Check, Money Order, or Charge Card – Payable to the Village of Oak Lawn

PRIVATE WATER USE PENALTY

If the CONTRACTOR uses water from a residence, without the permission of the OWNER, he will be subject to a $500.00 penalty for each occurrence. This will be deducted from any monies due to the CONTRACTOR.

MAINTENANCE OF ROADWAYS

Beginning on the date that the CONTRACTOR begins work 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 VILLAGE, but shall not include snow removal operations. Traffic control and protection for this work will be provided by the CONTRACTOR as required by the VILLAGE.

The work involved in maintaining the existing pavement will be paid for separately at the contract unit prices for the various items of work involved, unless otherwise specified elsewhere in these Special Provisions. Traffic control and protection will be paid for as stated in the contract. No construction activity shall begin until all proper signs and barricades have been installed. There shall be no material storage on the pavement, temporary or otherwise, unless otherwise approved by the Village in writing.

Contractors shall assume that all roadway work shown on the plans will be completed under live traffic, with the contractor responsible for providing traffic control in accordance with IDOT standard details and specification. All project streets must be fully open to a minimum one-way traffic at the end of each work day, unless otherwise authorized by the Village in writing, with all appropriate barricades and signage up directing traffic.

Time is of the essence to the contract. All concrete curb, gutter and the concrete driveway aprons shall be permitted to cure for a minimum of 72 hours. The Contractor shall complete the work to remove and replace the concrete curb and gutter, concrete sidewalk and concrete driveways (removal, framing, pouring and 72-hour curing) within seven (7) working days per street, unless the concrete curb and gutter, concrete sidewalk and concrete driveway completion time is extended in writing by the Engineer for a cause listed and pursuant to the procedure set forth in Article 108.08 of the Standard Specifications. Should the Contractor fail to complete the work to remove and replace the concrete curb and gutter, concrete sidewalk and concrete driveways (removal, framing, pouring and 72-hour curing) within seven working days or within such extended time as may have been allowed, the Contractor shall be liable and shall pay to the Village the sum of $2,000 per working day per occurrence, not as a penalty but as liquidated damages, for each day of overrun in the seven working day period or such extended time as may have been allowed to complete any such work. The liquidated damages for failure to complete the work to remove and replace the concrete curb and gutter, concrete sidewalk and concrete driveways (removal, framing, pouring and 72 hour curing) within seven working days on time are approximate, due to the impracticality of calculating and proving actual delay costs. The liquidated damage amount establishes the cost of delay to account for administration, engineering, liability, emergency response, inspection, and supervision during periods of extended and delayed performance. The costs of delay represented by the liquidated damage amount are understood to be fair and reasonable estimate of the costs that will be borne by the

Village during extended and delayed performance by the Contractor of the work, remaining incidental work, correction of work improperly completed, or repair of work damaged as a result of the Contractor. The Village will deduct these liquidated damages from any monies due or to become due to the Contractor from the Village.

Except during curb and gutter and driveway apron removal and replacement, all driveways shall be open to permit access the property to which the driveway serves at the end of each workday. Should the Contractor fail to open any such driveway at the end of any workday, the Contractor shall be liable and shall pay to the Village the sum of $500 per working day per driveway, not as a penalty but as liquidated damages, for each day that the Contractor fails to open any such driveway. The liquidated damages for failure to open driveways at the end of each work day are approximate, due to the impracticality of calculating and proving actual delay costs. The liquidated damage amount establishes the cost of delay to account for administration, engineering, liability, emergency response, inspection, and supervision during periods of extended and delayed performance. The costs of delay represented by the liquidated damage amount are understood to be a fair and reasonable estimate of the costs that will be borne by the Village during extended and delayed performance by the Contractor of the work, remaining incidental work, correction of work improperly completed, or repair of work damaged as a result of the Contractor. The Village will deduct these liquidated damages from any monies due or to become due to the Contractor from the Village.

The CONTRACTOR shall prime coat streets on the same day that the street is to be paved. The Contractor shall not prime coat any street prior to the day on which the street is to be paved. Should the Contractor prime coat a street prior to the day on which the CONTRACTOR commences paving the street, the Contractor shall be liable and shall pay to the Village the sum of $1,000 per working day per occurrence, not as a penalty but as liquidated damages, for each day that the Contractor has prime coated a street prior to paving of the street. The liquidated damages for prime coating a street on a day prior to paving the street are approximate, due to the impracticality of calculating and proving actual costs. The liquidated damage amount establishes the cost to account for increased administration, engineering, liability, emergency response, inspection, and supervision during periods of extended time which the street remains closed. The costs represented by the liquidated damage amount are understood to be a fair and reasonable estimate of the costs that will be borne by the Village during extended and delayed performance by the Contractor of the paving of any street. The Village will deduct these liquidated damages from any monies due or to become due to the Contractor from the Village.

If items of work have not been provided for in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Village, will be paid for in accordance with Article 109.4 of the STANDARD SPECIFICATIONS.

Time is of the essence to the contract. The aggregate base course shall not be permitted to be exposed for more than 72 hours, unless the exposure time is extended in writing by the Engineer for a cause listed and pursuant to the procedure set forth in Article 108.08 of the Standard Specifications. Should the Contractor fail to pave over the exposed aggregate base course within 72 hours or within such extended time as may have been allowed, the Contractor shall be liable and shall pay to the Village the sum of $5,000 per working day per occurrence, not as a penalty but as liquidated damages, for each day of overrun in the 72 hour period or such extended time as may have been allowed to complete any such work. The liquidated damages for failure to complete the work to pave over the aggregate base course within 72 hours are approximate, due to the impracticality of calculating and proving actual delay costs. The liquidated damage amount establishes the cost to account for possible increased future maintenance or premature replacement costs, administration, engineering, liability, emergency response, inspection, and supervision during periods of extended and delayed performance. The costs of delay represented by the liquidated damage amount are understood to be a fair and reasonable estimate of the costs that will be borne by the Village during extended and delayed performance by the Contractor of the work, remaining incidental work, correction of work improperly completed, or repair of work damaged as a result of the Contractor. The Village will deduct these liquidated damages from any monies due or to become due to the Contractor from the Village.

All equipment shall be moved from one project location to another by a rubber tire vehicle or machine. Equipment shall not be driven on a street between one project location to another. Should the Contractor drive equipment on a street between one project location and another, the Contractor shall be liable and shall pay to the Village the sum of $10,000 per occurrence, not as a penalty but as liquidated damages. The liquidated damages for driving equipment on a street between one project location and another are approximate, due to the impracticality of calculating and proving actual damage costs. The liquidated damage amount establishes the cost of latent damage to a street resulting in possible increased future maintenance or premature replacement costs, administration, engineering, liability, emergency response, inspection, and supervision during such occurrence. The costs represented by the liquidated damage amount are understood to be a fair and reasonable estimate of the costs that will be borne by the Village due to the driving equipment on a street between one project location and another. The Village will deduct these liquidated damages from any monies due or to become due to the Contractor from the Village.

Trucking/Staging Restrictions

No large (semis; large construction machinery) trucks are allowed to stage on Village residential streets. Each incident where trucks stage on Village residential streets shall be a penalty of $5,000 per incident per truck.

Under no circumstances will truck traffic or material staging be allowed to occur on School District property.

PREVAILING WAGE RATES

When engaged in construction of a "public work," within the meaning of 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 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: www.state.il.us/agency/idol/rates/rates.HTM. All Contractors and Subcontractors rendering services under a Contract for the construction of a public work must comply with all requirements of the Act, including but not limited to, all wage, notice and record keeping duties.

The term general prevailing hourly rate, when used in this requirement will mean the hourly cash wages plus fringe benefits for health and welfare, insurance, vacations and pensions paid generally, in the locality in which the work is being performed, to employees engaged in work of a similar character on public works.

As a condition of making payment to the Contractor, the Village may require the Contractor to submit an affidavit to the effect that not less than the prevailing hourly wage rate is being paid to laborers, mechanics and other workmen employed on this Contract in accordance with Illinois or federal law, as applicable.

NPDES TRAINING

Contractor shall certify that all required training related to applicable National Pollutant Discharge Elimination System permits has been completed by all employees, subcontractors, or other vendors working on behalf of the Contractor on Village projects or within the Village's municipal limits.

VILLAGE ORDINANCE 20-02-07

All Village bidding and contractual procedures shall be in accordance with Ordinance No. 20-02-07.

EXISTING PAVEMENT REMOVAL

Where proposed utilities are to be installed (storm, sanitary, or water main), the removal of the existing asphalt pavement section shall be included in the cost of the proposed utility installation and Class D Patching pay items. This is applicable for all project limits.

The Contractor shall complete all underground utility installation and backfill to existing adjacent finished grade prior to removing any existing pavement outside of the trench limits. The existing pavement cannot be removed without approval from the Engineer.

CLEANING DRAINAGE STRUCTURES

All existing storm sewers, pipe culverts, manholes, catch basins and inlets shall be classified as drainage structure insofar as the interpretation of this Special Provision is concerned. This work is divided as follows:

1. All existing drainage structures which are within 100 feet of the project limits shall be inspected by the CONTRACTOR together with the Engineer prior to starting construction and a record kept of their condition. All debris which accumulates in these structures during the time construction is in force shall be removed and disposed of by the CONTRACTOR as directed by the Engineer. This work shall be done at the CONTRACTOR's expense – this includes all necessary vac cleaning.

2. The cleaning and sediment removal and disposal of all inlet filters is considered incidental to the inlet filters.

CONSTRUCTION DEBRIS

Effective: October 18, 1999

Add the following to the third paragraph of Article 202.03 of the STANDARD SPECIFICATIONS:

"The Contractor shall not conduct any generation, transportation, or recycling of construction or demolition debris, clean or general or uncontaminated soil generated during construction, remodeling, repair, and demolition of utilities, structures, and roads that is not commingled with any waste, without the maintenance of documentation identifying the hauler, generator, place of origin of the debris or soil, the weight or volume of the debris or soil, and the location, owner, and operator of the facility where the debris or soil was transferred, disposed, recycled or treated. This documentation must be maintained by the Contractor for 3 years."

Additionally, the following shall apply to this project:

"Clean Construction and Demolition Debris (CCDD): All removal or excavation items being disposed of at an uncontaminated soil fill operation or Clean Construction and Demolition Debris (CCDD) fill site shall meet the requirements of Public Act 96-1416. All costs associated with meeting these requirements shall be included in the unit price for the associated items in the contract that require removal and disposal of CCDD and uncontaminated soil, unless provided by the Village as described below. Contractor costs shall include but are not limited to state and local tipping fees."

Village will provide Form LPC-663 with supportive documentation to the selected Contractor.

Village has confirmed that the scope of the testing services and paperwork the Village will conduct and provide at no cost to the Contractor is sufficient for acceptance. Village shall not be responsible for providing any additional testing or paperwork required by CCDD dump sites.

Absolutely no spoils from excavation or material from concrete removal items shall be left on site overnight. All removal items shall be loaded directly onto a truck and disposed of the day of the work. The Contractor shall be fined $500 per pile per night left on site, as determined by the Village.

PROTECTION OF TREES AND SHRUBS

Every effort shall be made by the Contractor when working near trees and shrubs to preserve same from harm. The Contractor shall be responsible for damage to or loss of any tree or shrub not specifically designated to be removed.

Wherever trees which are not permitted to be removed interfere with normal excavation procedures, the following shall govern. No machine excavation shall be made within a distance of three tree trunk diameters or 12 inches (whichever is greater) of any tree, and no roots over 2 inches in diameter shall be cut unless, in the opinion of the Engineer, it is impossible to complete the work without cutting. Excavation closer than three trunk diameters or 12 inches (whichever is greater) from any tree shall be made by hand, and the tree shall be tunneled where necessary as determined by the Engineer.

Damage to tree limbs shall be held to a minimum. Shrubs and tree limbs shall be tied back wherever necessary to prevent their loss or damage. Wherever damage by construction equipment to limbs and branches is unavoidable, they shall be pruned before starting work and sealed in accordance with best forestry practice.

Wherever necessary, the Contractor shall provide plank wrappers wired in place to protect tree trunks from being damaged by trench machinery, tractors or trucks.

Protective planking shall be removed as soon as practical after the work in the vicinity has been completed. In removing spoil banks from around trees, hand work will be required as necessary to prevent damage to the trunks by construction machinery.

Small trees (less than 4 inches in diameter) and shrubs which are removed or severely damaged during construction shall be replaced in kind and size by the Contractor. Trees larger than 1 inch in diameter shall be furnished balled and burlapped. The Contractor shall have the option of removing and replanting existing small trees and shrubs in the construction zone in lieu of replacement with new stock. All plantings shall be thoroughly watered at the time of planting and thereafter as required. All trees and shrubs planted or replanted by the Contractor which do not survive in good condition for a period of 18 months after the time of planting, shall be removed and replaced by the Contractor.

Damages at the rate of one hundred dollars ($100.00) per inch of trunk diameter shall be charged against the Contractor for unauthorized removal or destruction of any tree 4 inches in diameter or larger.

Basis of Payment

This work shall not be paid for separately, but rather shall be included in the cost of the items for which this work applies.

REINFORCED ELLIPTICAL CONCRETE PIPE

Contractor shall install external joint sealant on all elliptical and/or box culvert pipe. Joint wrap shall be MacWrap by Marmac, EZ Wrap, or approved equivalent. The cost to wrap the pipes shall be included in the unit price for the pipe.

Contractor shall also provide a membrane waterproofing system and geocomposite wall drains for all box culverts and box culvert end sections, as required and submitted/approved in the shop drawings by the Engineer prior to ordering materials. All work shall be in accordance with IDOT SSRBC Section 540 and GBSP 81, to be placed where pipe/structure has less than 3 feet of fill and wrapped over top and down sides at least one foot.

SIGN RELOCATIONS

The Contractor shall remove and relocate all street signs located in or near the construction zone as directed by the Village. Contractor shall be responsible for documenting sign locations and replacing each sign to the exact pre-project location in accordance with MUTCD standards, unless otherwise directed by the Engineer. The Contractor shall be responsible for replacing at his expense any signs damaged during the course of construction and the operation of removing and relocating any signs. The removal and relocation of all existing signs within the construction limits shall not be paid for separately, but shall be incidental to the contract.

PROTECTIVE COAT

Description. Protective Coat shall be applied to all new concrete curb, concrete curb and gutter, and PCC pavements in accordance with Article 420.18 of the Standard Specifications. PCC surfaces shall be cured in accordance with Article 1020.13 of the Standard Specifications. This work shall apply even if outside of the IDOT-specified timeframe.

Basis of Payment. Work under this item shall not be paid for separately, but shall be included in the bid price for the new concrete work requiring the protective coat treatment.

GEOTECHNICAL REPORTS

The Contractor shall be responsible for reviewing any and all geotechnical reports prior to submitting a bid.

This spec calls special attention to the groundwater elevation and soil conditions and types within the project location; means and methods for dewatering the groundwater for expeditious and proper construction shall be the responsibility of the Contractor.

Additional pumps shall be kept on-site to efficiently dewater the project site to allow for sufficient working conditions.

TREE ROOT PRUNING

Description. Work under this item shall consist of pruning tree (and bush) root structures using disc blade trenching equipment, trench backfilling and mulching per the detail include in the plans and per the Engineer. Pruning will be required where construction activities will encroach upon critical root zone areas as designated by Engineer.

The trench width for root pruning shall not exceed 6". Root pruning shall be to a depth of not less than 18". All pruning operations shall be completed prior to beginning any work which would disturb the root zone. The trench shall be backfilled and loosely compacted. Immediately following the completion of root pruning activities, Contractor shall erect protective fencing around those trees designated on the Drawings, so as to enclose the remainder of the critical root zone as shown on the details.

The Village Forester shall be on-site for all tree root pruning operations.

Method of Measurement and Basis of Payment. Work under this item shall be measured and paid for at the contract unit price per EACH for TREE ROOT PRUNING, which price shall include all labor, materials, and equipment necessary to satisfactorily complete the Work as described herein.

TRENCH BACKFILL, SPECIAL

Description. The provisions of Section 208 of the "Standard Specifications for Road and Bridge Construction" shall be modified such that the material used for trench backfill shall be CA-6 coarse aggregate. The trench backfill shall be compacted by Method 1, as defined in Article 550.07 of the Standard Specifications, which states the material shall be deposited in uniform lifts not exceeding 12 inches in depth (loose measure), and each lift shall be compacted by ramming or tamping with tools approved by the ENGINEER. Method 2 may also be allowed by the VILLAGE with written approval from the OWNER or Public Works Department assuming 2 weeks of dry time post jetting. All material and placement shall be in accordance with IDOT Policy Memorandum 11-08.4. Water for jetting operations will be provided by the Village at no cost to the CONTRACTOR.

Materials. All materials shall be in accordance with Sections 208 and 1003 of the "Standard Specifications for Road and Bridge Construction" and shall be approved by the Engineer prior to placement. Furnished TRENCH BACKFILL, SPECIAL material shall be produced from an IDOT-approved site. All material must be of sound durable aggregate and completely free of all deleterious material, such as wood, wood chips, brush, plastic, etc. Non-mechanically blended RAP may be allowed up to a maximum of 5.0 percent.

Any material conforming to the requirements of Articles 1003.03 or 1004.05 which has been excavated from on-site trenches shall be used for backfilling the trenches. No compensation shall be made for TRENCH BACKFILL, SPECIAL for the portion of the trench backfilled with excavated material. Excavated material must meet all specifications and requirements as stated herein to the approval of the Engineer; any necessary testing for excavated material approval shall be considered incidental to this pay item.

Trench Backfill shall be placed to meet existing adjacent finished pavement grade.

Any temporary aggregate required (outside of the trench backfill maximum pay limits) required to bring the roadway to existing finished grade until permanent paving operations can be completed shall be considered incidental to this work.

It shall be the Contractor's responsibility to maintain the proposed utility trench and all drivable surfaces until final utility installation is complete. This shall be considered incidental to this work.

Removal of TRENCH BACKFILL, SPECIAL prior to PATCHES of the type and thickness specified, or resurfacing of the roadway, shall be considered incidental to this pay item.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per CUBIC YARD for TRENCH BACKFILL, SPECIAL, which price shall include all material, equipment, and labor necessary to place and compact the trench backfill as specified, as well as removal of the backfill material for patching and/or paving operations. The quantity of trench backfill for payment shall be determined by using the method of measurement defined in Article 208.03 (b) of the Standard Specifications. Material coming from an un-approved source shall not be paid for and shall be removed from the project site at no cost.

TOPDRESS AND RESTORE PARKWAY DAMAGE

Description. This work consists of furnishing labor, equipment, and material to restore damage to parkways from material or equipment storage. Contractor shall provide up to 2" of new topsoil and/or scarify existing topsoil and grade parkway in preparation for seeding. Areas trenched for utilities shall be left low and restored using 4" topsoil under this pay item. Job quantities will be provided for one parkway each street. Contractor shall plan their work such that the parkway on the other side shall not be used for storage and not require restoration beyond what is required for curb or sidewalk installation. Damage in the parkway not designated for storage shall be repaired at no cost to the Village.

All material storage/stockpile locations shall be approved by the Engineer in the field prior to placing materials.

Method of Measurement and Basis of Payment. This item shall be measured and paid for in SQUARE YARDS for TOPDRESS AND RESTORE PARKWAY DAMAGE, which price shall include all material, equipment, and labor necessary to complete this work as specified herein and per the Engineer in the field.

LANDSCAPE RESTORATION

Description. This work shall consist of restoring turf landscape areas as a result of construction operations for the proposed improvements in both the detention basin and parkway. The work shall include furnishing of topsoil as specified, preparing the seed bed and placing the seed, placement of erosion control media, and other materials required in seeding operations on the disturbed areas such as the new sidewalk installation.

Topsoil. Topsoil shall be furnished and placed according to Section 211 of the Standard Specifications to a depth of 4". All topsoil placement and preparation shall occur prior to placement of fertilizer, seeding, and mulch blanket/cover.

Fertilizer. Fertilizer nutrients shall be uniformly spread over the designated areas immediately prior to seed bed preparation. 200 kg (180 lb) of fertilizer nutrients per hectare (acre) shall be applied at 1:1 ratio as follows:

Nitrogen Fertilizer Nutrients 100 kg/ha (90 lb/acre)
Potassium Fertilizer Nutrients 100 kg/ha (90 lb/acre)

Fertilizer shall be delivered in waterproof bags which show the weight, chemical analysis, and name of the manufacturer. This information will be provided to the owner prior to application. The Contractor shall restore, at his/her expense, any existing turf areas damaged by improper application of fertilizer nutrients.

Seed Bed Preparation. Seed bed preparation shall not be started until all stones, boulders, debris and similar material larger than 25 mm (1 in.) in diameter have been removed. The areas to be seeded shall be worked to a minimum depth of 50 mm (2 in.) with a disk tiller or other equipment approved by the Engineer, reducing all soil particles to a size not larger than 6 mm (1/4 in.) in the largest dimension. The prepared surface shall be relatively free from weeds, clods, stones, roots, sticks, rivulets, gullies, crusting and caking. No seeds shall be sown until the seed bed has been approved by the Engineer.

Seeding Methods. No seed shall be sown during high winds or when the ground is not in a proper condition for seeding, nor shall any seed be sown until the seeding mixture has been approved, as noted below, by the project manager, or his designee.

The standard application of seed or fertilizer shall be done as approved by the Engineer. All seed installation equipment shall be approved by the Engineer prior to being used. Prior to starting work, seeders and inter-seeders shall be calibrated and adjusted to sow seeds at the required seeding rate. Equipment shall be operated in a manner to ensure complete coverage of the entire area to be seeded or inter-seeded. All seeding shall occur prior to placement of mulch blanket/cover.

Seeding Dates. The seeding dates shall be from May 1st to June 30th and from September 1st to November 1st. The Village, at its sole discretion, may postpone seeding operations if deemed necessary. If temporary seeding is necessary to stabilize disturbed areas after

November 1st, Temporary Erosion Control Seeding and Mulch, Method 2 shall be provided and installed as described in Section 250 and Section 251 of the Standard Specifications at no additional cost to the contract. If seeding is required after November 1st, seed and blanket shall be placed and then inspected in the spring.

Seeding Mixtures. Seeding mixtures shall be Class 1A seeding according to Article 250.07 of the Standard Specifications, as well as Athletic Fields Seeding.

All seed shall be delivered in the manufacturer's original packaging and shall include the manufacturer's guaranteed analysis of seed type and percentage. Seed shall be approved by the project manager prior to installation, and the information (tag) from each bag shall be submitted, with the project paperwork, to the owner for documentation.

Erosion Control Blanket. Erosion control blanket shall be placed within 24 hours after seeding operations have been completed. On slopes steeper than 1:3 (V:H), mulch shall be applied the same day as seeded.

Prior to placing the blanket, the areas to be covered shall be relatively free of foreign material which will prevent the close contact of the blanket with the seed bed. After the area has been properly shaped, fertilized and seeded, the blanket shall be laid out flat, evenly and smoothly, without stretching the material.

A biodegradable netless erosion control blanket shall be used and shall consist of an open, flexible and dimensionally stable network of degradable, thermally-bonded wood and crimped, interlocking man-made fibers such as North American Green S75BN or approved equal. The porous matrix shall have a functional longevity of up to 12 months. The NECB shall be highly absorbent and facilitate rapid germination and accelerate plant growth. The NECB shall be provided in a turf green color (fugitive biodegradable vegetable dye) or in a natural wood color to ensure enhanced visual aesthetics. Under no circumstances will erosion control blankets containing nets or stitching threads be accepted. The NECB shall be biodegradable within 2 years.

The designated blankets shall be placed per the manufacturer's specifications.
To maximize blanket to soil contact, irrigate treated areas immediately after installation. Evenly apply water at 2000 gallons/acre to simulate natural rainfall. Do not irrigate if rainfall is imminent.

Maintenance. Following hydraulic seeding or erosion blanket installation, foot and vehicular traffic, or the movement of equipment over the completed area shall be prohibited.

Promptly after seeding**,** wet the upper one inch (1") of the seed bed thoroughly. All seeded areas will be kept moist throughout the germination process, receiving thorough (minimum of one (1) inch depth) watering a minimum of seven (7) times, equally disbursed throughout the first thirty (30) days after seeding, and until the grass has reached a minimum height of two (2) inches. Additional watering, which is incidental to the contract, may be required to

reach the minimum height of two (2) inches. The surface of the soil shall not be allowed to dry out, but areas of standing water shall not be permitted. Documentation of watering events shall be submitted to the project manager and include the date and time the watering was performed, as well as the equipment utilized and number of gallons of water applied.
At any location where restoration work has been displaced by any Contractor's equipment, personnel, or weathering activity, the seeding and mulch or other work damaged as a result of that displacement shall be repaired or replaced immediately at the Contractor's expense, in a manner satisfactory to the Owner. This shall also include any disturbance caused by the public – it shall be the Contractor's responsibility to maintain a safe project site to limit disturbance from public actions, including (but not limited to) installing the 6' tall construction chainlink fence. Any disturbance to landscaped areas by the public shall receive new topsoil/seed/blanket to restore the area to final planned conditions at no additional cost.

Supplemental Watering and Fertilization. Once the new seed has been watered, per the specification, for a minimum of thirty (30) days and reached a height of two inches (2") or greater, supplemental watering and fertilization may be required in the event of inadequate rainfall or turf development. Supplemental water and fertilizer shall be applied, at the Contractor's discretion, in order to maintain the area in compliance with the terms of the guarantee. Use of a diffusing type attachment for hose watering to create a light sprinkling effect is required. All supplemental watering and fertilization is incidental to the contract.

If the seeded areas have not reached a minimum height of 2 inches over a minimum of 80% of coverage following 30 days, supplemental watering shall occur until 2 inches over 80% over the area is reached.

Period of Establishment. Areas seeded annually must undergo a 21-day period of establishment beginning on the last day that seed is sowed or the final staking of the erosion control blanket. During this period, the Contractor shall be responsible for, at no additional cost to the Village, watering, removing weeds and maintaining the seeded areas, and repairing any damage to the seeded areas due to, but not limited to, errant vehicles, severe weather or other causes. At the end of the period of establishment, the pay quantity for seeded areas which result in weeds, bare areas, or are otherwise unacceptable, shall be deducted from the Contract quantities. Terms of acceptance shall be made by the Village and shall be final. Should the seed not germinate because of prevailing cool weather, the period of establishment and the annual completion date may be extended as determined by the Village.

Guarantee. Contractor shall guarantee the seeding for a period of one full growing season from the Date of Substantial Completion of total project for any loss due to faulty materials, workmanship, or procedures. From the period of thirty (30) days after initial seeding, to the date of final acceptance (end of guarantee period; one (1) full growing season), seeded areas shall have a healthy, uniform, close stand of established grass, free of weeds, surface irregularities and have no bare spots larger than twenty (20) percent of any given three (3) by three (3) foot area. If any area does not meet this criteria contractor shall prepare the soil surface of the rejected areas, install seed, fertilizer, and mulch, and water until an

acceptable stand of grass is established. Any seeded or landscaped area disturbed by these procedures will be restored at the contractor's expense.

Performance Criteria. Satisfactory performance shall consist of 80% coverage of the seeded area by November 15th. Coverage shall mean a uniform coverage of vegetation at least 2 inches tall from the grade planted for any square yard planted. If the Contractor does not meet the above performance standard by October 15th, the Contractor must complete appropriate tasks (additional seeding, mowing, and/or selective herbicide application) by November 1st to comply with the performance criteria and no second payment will be made until performance is met.

If the Contractor fails to comply with the requirements for satisfactory performance by November 1st, the Village has the right to make other arrangements as it may deem necessary to correct the deficiency and deduct the cost from any monies due the Contractor. Should the Village choose to make other arrangements to complete this work, the Contractor shall not receive the second 50% of the contract unit price.

If any seeding performed in order to meet the terms of the guarantee must be performed later than the scheduled seeding periods then the contractor shall also guarantee these seeded areas, from loss due to weather, for a period of one growing season from the date of substantial guarantee work completion.

Method of Measurement and Basis of Payment. This work shall not be paid separately, but shall be considered incidental to the contract, and shall be performed as outlined below in this specification, and incidental to all topsoil/topdress, seeding, erosion control blanket, supplemental watering, labor, material, and equipment necessary for the supply, and installation of the seeding and all incidental work and materials herein specified.

INLET FILTERS

Description. This work shall include furnishing new inlet filter bags in accordance with Section 280 of the Standard Specifications and the manufacturer recommendations. At a minimum, the inlet filter shall conform to the following:

Frame: The flange shall be fabricated from 1/8" flat stack. The base ring shall be fabricated from 1-1/2" x 1-1/2" x 1/8" channel. All steel shall be domestic conforming to ASTM-A36.

Sediment Bag: The sediment bag shall be fabricated from 4 oz/sq yd non-woven polypropylene geotextile and shall be reinforced with polyester mesh. The bag shall be secured to the base ring with stainless steel strap and lock.

Inlet filters shall be installed prior to starting work. Once any site work has started, the Contractor shall be fined $500 per structure per day for each filter not installed. Fines shall be imposed for missing filters until the final lift of surface has been placed.

The Contractor shall also be responsible for cleaning and maintaining all inlet filters as part of this work.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per EACH for INLET FILTERS, which price shall include all labor, materials, and equipment necessary to satisfactorily complete the work as described herein.

AGGREGATE SUBGRADE IMPROVEMENT

Description. This work consists of furnishing labor, equipment, and material to provide and compact aggregate subgrade at locations directed by the Engineer after Removal and Disposal of Unsuitable Material. Contractor shall provide material in accordance with Section 1004 gradation CA-1. Exact Removal and Disposal of Unsuitable Material / Aggregate Subgrade Improvement limits to be determined in the field by the Engineer.

Method of Measurement and Basis of Payment. This item shall be measured and paid for in CUBIC YARDS for AGGREGATE SUBGRADE IMPROVEMENT, which price shall include all material, equipment, and labor necessary to complete this work as specified herein and per the Engineer in the field.

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (SPECIAL)

Description. This work shall consist of placing Portland cement concrete sidewalk on a compacted subbase. Work shall be performed in accordance with Sections 211, 252, 311 and 424 of the Standard Specifications with the following alterations.

Construction Requirements. Sidewalks shall be placed on 2-inches of Subbase Granular Material, Type B for new and existing sidewalks and 4-inches for the vehicular ramp. ADA accessible ramps shall be constructed according to the latest IDOT Highway Standards 424001, 424006, 424011, 424016, and 424024. Expansion joints shall be placed at intervals of not more than 50 feet. At driveway apron locations, the depth of concrete shall be increased to 7-inches. All required excavation and subbase granular material, Type B shall be included. Restoration shall consist of 4" of topsoil and sodding with a minimum width of 2 feet (not to exceed 2-foot width). Topsoil and seed restoration shall be paid separately under their respective items.

Method of Measurement. Portland cement concrete sidewalk will be measured for payment in place, and the area computed in square feet.

Basis of Payment. This work will be paid for at the contract unit price per square foot for PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (SPECIAL), which price shall include all required expansion joints, special texturing, variable height edge treatment (side curb) at sidewalk ramps, additional thickness at driveway aprons, compacted subbase granular material and all required excavation for subbase and to meet ADA requirements and applicable Highway Standards.

DETECTABLE WARNINGS

Description. This work shall consist of installing detectable warnings at locations shown on the plans or as directed by the Engineer in accordance with Section 424 of the Standard Specifications.

Materials. The CONTRACTOR shall install detectable warning plates. The tiles shall be EJ Duralast 24" x 30" (2 per ramp) with dome spacing of 2.35" and "Brick Red" in color. In the event that EJ Duralast isn't available, or the available supply doesn't account for the quantity the project calls for, the CONTRACTOR shall use Neenah Foundry or ADA Solutions cast iron detectable warning plates of the same dimensions, dome spacing, and color as mentioned above. Where applicable, EJ Duralast radius truncated dome detectable warning system shall be utilized. The color of radius system shall be "Brick Red". Where radius tiles are required, the CONTRACTOR shall field verify radius measurements prior to ordering materials. The detectable warning shall be installed in accordance with the manufacturer's recommendations and as shown on the plans and details or as required by the Engineer.

Construction Requirements.
Curb Ramps. Curb ramps shall be constructed according to the Americans with Disabilities Act Accessibility Guidelines (ADAAG), the Illinois Accessibility Code, and as shown on the plans. Curb ramps shall be constructed to the same thickness as the adjacent sidewalk with a minimum thickness of 5in. (100 mm). ADA accessible ramps shall be constructed according to the latest IDOT Highway Standards 424001, 424006, 424011, 424016, and 424024.

Detectable Warnings. The detectable warning shall be installed during the construction of the PCC sidewalk. The top of the plate shall be flush with the surface of the sidewalk. All PCC sidewalk and aggregate sub-base installed below the detectable warning shall be installed according to the manufacturer's specifications. Where radius tiles are required, the CONTRACTOR shall field verify radius measurements prior to ordering materials.

The detectable warnings shall be installed at curb ramps, medians and pedestrian refuge islands, at-grade railroad crossings, transit platform edges, and other locations where pedestrians are required to cross a hazardous vehicular way. Detectable warnings shall also be installed at alleys and commercial entrances when permanent traffic control devices are present. The installation shall be an integral part of the walking surface and only the actual domes shall project above the walking surface. The product or method used for installing detectable warnings shall come with the following documents which shall be given to the Engineer prior to use.

(a) Manufacturer's certification stating the product is fully compliant with the ADAAG.
(b) Manufacturer's five year warranty.
(c) Manufacturer's specifications stating the required materials, equipment, and installation procedures. Products that are colored shall be colored their entire

thickness. The materials, equipment, and installation procedures used shall be according to the manufacturer's specifications.

Method of Measurement and Basis of Payment. This work will be measured and paid for at the contract unit price per SQUARE FOOT for DETECTABLE WARNINGS which price shall include all materials, labor and equipment necessary to perform the work as shown in the construction detail and specified herein.

CLASS D PATCHES, 5" (SPECIAL)

Description. This work shall consist of removal and replacement of existing pavement at locations shown on the plans and as directed by the Engineer in the field. This work shall be done in accordance with Section 442 of the Standard Specifications except that the four types, namely Type I, Type II, Type III and Type IV have been combined under the pay item Class D Patches, 5" (Special).

The existing pavement including the base and bituminous surface shall be removed to the proper depth according to site conditions and typical sections to allow for the five (5) inch Class D Patch. The Class D Patch shall be 5" Hot-Mix Asphalt Base Course, IL-19.0, N50 as specified in Section 406.

All holes, soft places and other defects in the subbase or subgrade shall be corrected by the Contractor by removing the unsuitable material, adding more bituminous mixture as specified herein in conformance with Section 406.

HMA Base Course shall be Hot-Mix Asphalt Base Course, IL-19.0, N50, 5" (2 Lifts).

This work shall also include Bituminous Materials (Tack Coat) per Section 406 of the Standard Specifications.

All patching shall be completed within one month of underground utility installation unless otherwise directed by the Engineer.

Patching shall be placed to existing adjacent finished surface, with the intent for the roadway to be grinded and receive full width resurfacing all at once, unless otherwise directed by the Engineer.

This work shall also include the removal of trench backfill material required for the appropriate patching/paving operations.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per SQUARE YARD for CLASS D PATCHES, 5" (SPECIAL) which price shall include the removal of the existing pavement base and bituminous surface and sub-grade as directed by the Engineer, and the placement and compaction of the specified bituminous mixture up to the proper grade.

BOX CULVERT END SECTION W/ GRATE

Description. This work shall consist of installing a precast reinforced concrete box culvert end section with grate of the size shown on the plans. All work shall be done in accordance with Sections 540 and 542 of the Standard Specifications and the applicable IDOT Highway Standards. The Contractor shall submit a shop drawing for review and approval by the Engineer prior to ordering materials.

An example cut sheet and picture from a previous Village stormwater project is included in these documents for reference. The grate shall be manufactured by Grate Solutions Co. Inc. or approved equal, and shall include a hatch/access door with lock for Village maintenance purposes.

Any and all required cofferdams, bypass pumping, and dewatering required to complete this work as specified herein, shown on the plans, and per the Engineer in the field, shall be considered incidental to this pay item. All work shall be in accordance with the following specification for COFFERDAMS, DEWATERING, AND BYPASS PUMPING. Compensation will not be provided separately for this work.

A membrane waterproofing system and any required geocomposite wall drains shall also be included in the cost of this item. All work shall be in accordance with IDOT SSRBC Section 540 and GBSP 81, to be placed where pipe/structure has less than 3 feet of fill and wrapped over top and down sides at least one foot.

Method of Measurement and Basis of Payment. This work shall be measured and paid for at the contract unit price per EACH for BOX CULVERT END SECTION W/ GRATE, of the size, culvert number, and dimensions specified, which price shall constitute payment in full for all labor, materials, equipment, and incidentals necessary to complete the work as specified herein.

COFFERDAMS, DEWATERING, AND BYPASS PUMPING

Description. This work shall consist of installing, maintaining and removing temporary sandbag cofferdams that close any of the work zones from the waterway for the entire project, as well as all necessary dewatering and bypass pumping (for existing and proposed storm sewers, sanitary sewers, or groundwater inclusive) in order to completely construct the project in the dry. The temporary sandbag cofferdam must be maintained as to allow the Contractor to work "in the dry" and to control sediment. The cofferdam shall protect the site as required by the Project Permits, approved shop drawings, the special provision and plans, and as directed by the Engineer. Plugging existing and/or proposed storm or sanitary sewers (or structures) with sandbags (or other means necessary as approved by the Engineer) shall be included in the cost of this item. **The Contractor shall be responsible for dewatering no matter the weather conditions at any point throughout the contract duration.**

The cofferdams shall be designed, constructed, and removed with the Engineer's approval. Additional pumps shall be kept on-site to efficiently dewater the project site to allow for sufficient working conditions.

If it is observed that the Contractor's means and methods are not successfully eliminating erosion and sedimentation, Contractor will be responsible to alter practices until problems are corrected. Any earthwork, cleanup of sediment, stabilized pads, aggregate, filtration, flocculation agents and restoration after completion is considered part of this item.

Materials. Any substance used to assemble or maintain cofferdams shall be nontoxic and non-hazardous. Any material used to minimize seepage underneath diversion structures, such as grout, shall be non-toxic, non-hazardous, and as close to neutral pH (7) as possible.

The exterior of vehicles and equipment that will be within the coffered area shall be maintained free of grease, oil, fuel, and residues.

Construction Requirements. Stationary equipment such as motors, pumps, etc. located within the work area or adjacent to a water body shall be positioned over drip pans or other confinement area. All equipment shall be stored outside of the floodplain when not in use to avoid inundation during a high-water event.

Dewatering shall be as specified below and included in the cost of the proposed sewer or structure.
Bypass pumping shall be as specified in the below and included of the proposed sewer or structure.

Contractor shall restore ground to the satisfaction of the Engineer and included in the cost of this item.

Excavated material or spoils resulting from the activity shall be removed from the coffered area as soon as possible and shall not remain overnight.
Place the impermeable barrier on the bottom of the water feature. The barrier should extend out past the edge of the future cofferdam a sufficient length so that it can be pulled back over the sandbag after it has been installed. This will create a seamless barrier on the water side with the opening seam on the work area side. After the barrier is pulled over the sandbags, it will likely be necessary to hold the impermeable barrier in place with rip rap or additional sandbags.

Contractor shall size sandbags appropriately to ensure that the cofferdam is able to withstand design flows.

Weather reports should be observed. If a storm event is expected, the site shall be stabilized in preparation, as appropriate, as determined by the Engineer. All repairs shall be made immediately to prevent further damage to the installation.

Contractor shall regularly inspect cofferdams for leaks or other deficiencies. Sandbags used within the cofferdam, if applicable, must be removed by hand to prevent breakage. All disturbed soil within the coffered area shall be returned to original condition with all possible efforts made to retain the existing soil profile prior to the removal of the dams.

Shop Drawings. Prior to scheduling any work, the Contractor shall receive Engineer's review and approval on the following Contractor submitted items.

1. Construction sequencing schedule with anticipated dates of work.
2. Sketch showing location of dewatering pumps, and erosion\sediment control measures needed to construct the proposed improvements within and adjacent to the cofferdam.

DEWATERING
Description. This work shall consist of providing labor, tools, equipment, and materials necessary for dewatering (regardless of the water source) all work areas to relatively dry conditions as determined by the Engineer and maintain suitable working conditions and sediment control so that the improvements are constructed in the dry. The dewatering shall be 24 hours a day, seven days per week as needed to maintain suitable working conditions to install the proposed storm sewer.

Products. The Contractor shall be responsible for the choice of the product(s) and equipment as well as "means and methods" for the Site Dewatering Work to be performed subject to the review of the Engineer. All products and "means and methods" selected shall be adequate for the intended use/application. Engineer's review does not relieve the Contractor from compliance with the requirements of this special provision.

Submittals. The Contractor shall submit to Engineer for review and approval a description of dewatering techniques and equipment to be used, together with detail drawings showing

lengths of discharge piping and point(s) of discharge including sediment and erosion control procedures using Best Management Practices. Engineer's review of dewatering techniques and equipment shall in no way be construed as creating any obligation on the Village for same.

Best Management Practices are anticipated (but not limited to) to include:

-Sump Pit
-Pumps, Hoses, Etc.
-Point Source Discharge Protection (Rip Rap with Vegetative Buffer, Etc.)
-Rock Checks / Ditch Checks
-Geotextile Fabric
-Dewatering Filter Bags
-Removal and proper disposal of all BMP's and sediment associated with dewatering
-Additional erosion and sediment control BMP's as per Engineer's direction
-Noise abatement.

Responsibility. The Contractor shall be solely responsible for the choice of product(s) and equipment; for the design, installation, and operation; as well as "means and methods" of performing the Work; and subsequent removal of dewatering systems and their safety and conformity with local codes, regulations and these Specifications. All product(s), equipment and "means and methods" selected shall be adequate for the intended use/application. Review by Engineer does not relieve Contractor from compliance with the requirements specified herein.

General Requirements. The Contractor will be responsible for furnishing the necessary labor and supervision to set up and operate the diversion pumping system. The CONTRACTOR shall provide sufficient inspection personnel to ensure that surcharging and backups do not occur on public or private property while pumping or plugging operations are being conducted. If bypass pumping is required on a 24-hour basis, the pumping equipment shall be equipped with mufflers to minimize noise to a level of 75 decibels or less (at 30 feet). The Contractor shall be required to obtain permission from private property owners if it is necessary to string pipes or hoses on said property.

When flow in a sewer line is plugged, blocked, or diverted, the Contractor shall take sufficient precautions to protect the sewer lines from damage that might result from sewer surcharging, and to ensure that sewer flow control operations do not cause flooding or damage to the public or private property being served by the sewer involved.

Water pumped or drained from the work required for this Contract shall be disposed of in a safe and suitable manner without damage to adjacent waterways, adjacent property or streets or to other work under construction. Water shall be discharged with adequate erosion and sediment control protection of the surface at the point of discharge. No water shall be discharged into sanitary sewers. Any and all damages caused by dewatering the work shall be promptly repaired by the Contractor. The Contractor is responsible for providing any and all labor, materials and equipment needed for the dewatering in order to meet the scheduled completion of the project.

At all times during the excavation period and until completion and acceptance of the Work at Final Inspection, ample means and equipment shall be provided with which to remove promptly and dispose of properly all water (including ground water, creek water, storm sewer water, storm runoff, and water generated from Contractor's activities) entering any excavation or any other parts of the Work.
Water pumped or drained from the work required for this Contract shall be disposed of in a safe and suitable manner without damage to adjacent waterways, adjacent property or streets or to other work under construction. Water shall be discharged with adequate erosion and sediment control protection of the surface at the point of discharge. No water shall be discharged into sanitary sewers. Cost of dewatering work zone after storm events is included in the cost of this item. The Contractor may propose other means/methods for controlling sediment and minimizing construction duration.

BYPASS PUMPING.
Description. This work shall also consist of providing labor, tools, equipment, and materials necessary for bypass pumping (regardless of the water source) the waterway around the work areas so that the improvements are constructed in the dry. The bypass pumping shall be 24 hours per day, seven days per week as needed to maintain relatively dry conditions within the work zone. **All disturbed areas shall be stabilized at the end of the working day (temporary stabilization measures shall not be paid for separately, but shall be considered included in the cost for the proposed sewer or structure).**

Requirements – Sediment Filter Bags.
A. Sediment filter bags to be sized based on volume of water being pumped and quantity and type of sediment.
B. Multiple discharges into a single bag are not permitted.
C. Sediment filter bag shall be oriented to direct flow away from construction area and discharge filtered water into approved manhole or other receiving area.
D. Sediment filter bag shall be replaced when it becomes ½ full of sediment or when the sediment has reduced discharge flow rate below the design requirements.
E. Place straps, cross chains, pallets or other lifting device under the sediment filter bag for ease of replacement.

Materials – Sediment Filter Bags. The filter bags shall be made from a nonwoven, needle punched, polypropylene geotextile that meets the following values:

Weight - Typical	ASTM D-5261	8 oz/sy
Tensile Strength	ASTM D-4632	205 lbs
Elongation @ Break	ASTM D-4632	50%
Mullen Burst*	ASTM D-3786	350 psi
Puncture Strength*	ASTM D-4833	120 lbs
CBR Puncture	ASTM D-6241	535 lbs

Trapezoidal Tear	ASTM D-4533	85 lbs
Apparent Opening Size	ASTM D-4751	80 US Sieve
Permittivity	ASTM D-4491	1.35 Sec-1
Water Flow Rate	ASTM D-4491	90 g/min/sf
UV Resistance @ 500 Hours	ASTM D-4355	70%

Method of Measurement and Basis of Payment. This work shall not be paid for separately, but shall be included in the cost of the proposed sewer or structure items.

STORM SEWER REMOVAL

Description. This work shall consist of the removal of portions of the existing storm sewer of all diameters encountered as shown on the plans and at locations determined by the Engineer in accordance with Section 551 of the Standard Specifications for Road and Bridge Construction. This item assumes all storm sewer to be removed is of diameters 6" – 18", but shall include any other sizes encountered for removal.

If the excavation required for the removal operation falls within a paved area (existing or proposed), it shall be backfilled with Trench Backfill material, performed in accordance with the applicable requirements of the Special Provision "Trench Backfill, Special" included herein. Trench backfill will not be measured for payment but shall be considered incidental to the contract unit price per lineal foot for storm sewer removal.

All pipes to be abandoned shall be plugged with two courses of bricks and hydraulic cement. Plugs shall be inspected by the Engineer prior to backfilling.

Any holes in existing pipes due to storm removal shall be patched to the approval of the Engineer by placing flexible metal over the hole and placing brick and mortar over the top; other methods shall be approved by the Engineer in the field prior to work occurring.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per LINEAR FOOT for STORM SEWER REMOVAL, of all diameters encountered, measured as removed. This price shall include excavation, and common backfill or trench backfill as herein specified, including the abandoning of the pipes and/or structure as directed by the Engineer in the field.

ADJUSTING WATER MAIN

Description. This work shall consist of the relocation of portions of the existing water main to avoid utility conflicts. This work shall be performed at locations shown on the plans and/or subject to the review of the ENGINEER. This work shall include the adjustment of any diameter existing water main. Trench Backfill material shall be per Section 208 of the SSRBC and the TRENCH BACKFILL, SPECIAL specification as included herein.

Excavation required for water main removal shall be performed in accordance with the applicable portions of Standard Construction of Sewer and Water Main in Illinois. Water main relocation limits shall be determined by the Engineer. The connection shall be made at a location where the existing pipe has been sawcut at a joint so as to provide a smooth, even surface so as to allow a watertight connection. After relocation of the existing pipe, the integrity of that portion which has been adjusted shall be checked by the ENGINEER to ensure that all of the pipe has not been damaged. Additional relocation required by non-compliance with this Special Provision will be performed at the CONTRACTOR'S expense and no additional compensation will be allowed. All new pipe must be polywrapped as part of this item. If tracer wire is found on the existing water main, it shall be installed on the new water main and spliced using 3M DBR splice kits.

As directed in the field by the Engineer, the adjusted water main shall be placed in a casing pipe in accordance with the spec herein for DIP CASING PIPE.

Any chlorination or pressure testing, as directed by the Engineer in the field, shall be included in the cost of this item, and shall be done in accordance with the language in the Standard Construction of Sewer and Water Main in Illinois.

All ductile iron water main fittings shall be included in the cost of this item.

All connections to the existing water mains shall be included in the cost of this item.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per LINEAR FOOT for ADJUSTING WATER MAIN, of the diameter specified, measured as installed. This price shall include excavation, removal/adjustment/replacement of existing water main pipe, all fittings required, any required chlorination and pressure testing, all connections to existing mains, and backfill (Trench Backfill as necessary) as herein specified.

ADJUSTING WATER SERVICE LINES

Description. This work involves adjusting existing water service lines to relocate them over or 12"-18" underneath the proposed storm sewers. Services over proposed storm sewer (4' minimum cover to finished grade) can be constructed using copper. Services under proposed storm sewer shall be HDPE installed in casing. Trench Backfill for this work is incidental to this item and will not be paid separately. Contractor shall use a "freeze sleeve" or other method approved by the Village of Oak Lawn to stop flow during adjustment. Crimping will not be allowed. A 4" ductile iron casing pipe, paid under a separate item, will be required where the service is underneath the proposed storm sewer. Care must be taken when installing the service line through the casing pipe so the service line is not damaged (any damage to the proposed service line shall be completed replaced at no additional cost). Service line shall be protected using elastomeric foam pipe insulation of matching diameter secured to the service line as it is fed through the casing pipe to protect the service from rubbing on the casing and becoming damaged over time. Contractor shall provide submittals of pipe and fittings for Village review and approval prior to ordering. Sizes of existing services may vary, Contractor is expected to match existing sizes as they are encountered as part of this item.

Materials.

Copper. Copper water pipe shall be Type K tube, meeting the specifications for ASTM B-88.

HDPE. High-Density Polyethylene Pipe: ASTM D2737, AWWA C901 and NSF Standards 14 and 61 and SDR 9. Pipe dimensions shall meet Copper Tubing Size (CTS) standards. High- Density Polyethylene shall conform to minimum requirements of cell classification 445574E per ASTM D3350. Resin shall have material designation code PE4710 by the Plastic Pipe Institute. A stiffener shall be installed in the HDPE where connecting to copper.

Tubing Properties:

		3/4"	1"	1 1/4"	1 1/2"	2"
SDR 9	Outside Diameter, in (mm)	0.875 ±0.004 (22.2 ±0.10)	1.125 ±0.005 (28.6 ±0.13)	1.375 ±0.005 (34.9 ±0.13)	1.625 ±0.006 (41.3 ±0.15)	2.125 ±0.006 (54.0 ±0.51)
	Wall Thickness, in (mm)	0.097 +0.010 (2.5 +0.25)	0.125 +0.012 (3.2 +0.30)	0.153 +0.015 (3.9 +0.38)	0.181 +0.018 (4.6 +0.46)	0.236 +0.024 (6.0 +0.61)
	Pressure Rating @ 73°F, psi (kPa)	250 (1724)	250 (1724)	250 (1724)	250 (1724)	250 (1724)
	Weight, gm/ft (gm/m)	46 ±2 (151 ±7)	78 ±3 (256 ±10)	125 ±4 (410 ±13)	162 ±4 (531 ±13)	275 ±5 (902 ±16)

All water service fittings shall be compression connection type, Socket fusion or butt fusion fittings complying with ASTM D2683 and ASTM D3261.

Plastic Ribbon Tape: Brightly colored, continuously printed. Minimum 6 IN wide by 4 mil thick. Manufactured for direct burial service.
Tracer Wire. Tracer wire shall be copper-clad steel wire composed of Steel core with a uniform and continuous copper cladding thoroughly bonded to the steel throughout. Wire must conform to ASTM B1010 and ASTM B227. The steel and copper interface must have a metallurgical bond achieved through a high heat and pressure bonding process. Insulation is comprised of a co-polymer high molecular weight natural high-density polyethylene (HDPE) designed specifically for high-speed copper wire insulating. It shall contain the required levels and types of primary antioxidant and metal deactivator additives to satisfy Wire and Cable industry requirements. Insulation must conform to ASTM D1248.

Wire shall be #12 AWG with a minimum break load of 1150 pounds. The appropriate color for the utility shall be used. Wire shall be bonded to adjacent copper so that the tracer wire will function properly.

Construction Requirements. Prior to shutting down any existing service, the Contractor shall give the Engineer a minimum of 48 hours advance written notice of their intent to do so, noting the street addresses of the proposed disruptions. No existing water service may be shut down without the consent of the Engineer.

Prior to backfilling any trenches, the Contractor shall arrange for inspection by the Engineer of the completed water service adjustment including a leak check. The Engineer's inspection for leak check shall be at normal line operating pressure. Water services that are moved or disconnected and reconnected to accommodate construction of other items are not measured for payment.

Method of Measurement and Basis of Payment. This work shall be measured and paid per LINEAR FOOT for ADJUSTING WATER SERVICE LINES which shall be payment in full for all materials, labor and equipment required for this work including installation in casing pipes. All aggregate backfill (Trench Backfill as necessary) required to complete this work shall be considered incidental to this pay item. Measurement shall be made along the relocated service in the actual trench between connection points.

PIPE UNDERDRAINS (SPECIAL)

Description. This work shall consist of furnishing and installing Pipe Underdrains, of the diameter and type specified, according to Section 601 of the "Standard Specifications", per the plan details, and per the manufacturer's recommendations. The Contractor shall submit a shop drawing for approval by the Engineer prior to ordering materials.

Pipe shall be by ADS or approved equal, and shall be bell and spigot with watertight joints and watertight fittings. All necessary fittings shall be included in the cost of this item.

All underdrains shall be perforated ADS and include ¾" washed stone and wrapped in filter fabric per the plan detail.

Method of Measurement and Basis of Payment. This work shall be paid for at the contract unit price per LINEAL FOOT for PIPE UNDERDRAINS (SPECIAL) of the diameter and type specified.

CATCH BASINS, MANHOLES, AND INLETS

Description. This work shall consist of constructing drainage structures of the size indicated on the plans, together with the necessary cast iron frames and lids, in accordance with Section 602 of the Standard Specifications, except as specified herein. IDOT Standards may be used where applicable. For structures with diameters or dimensions that do not have an applicable IDOT Standard, the Contractor is responsible for submitting calculations and detailed shop drawings that are signed and sealed by a Structural Engineer licensed in the State of Illinois to the Engineer for review prior to ordering material or starting construction. The required thickness of the structure bottom slab, sidewalls and top slab, and reinforcement details shall be shown on the shop drawings. It is the Contractor's option to use precast manholes or cast-in-place to perform this work.

Standard frames and lids shall be used on all manholes. Closed lids for storm sewer structures shall have the word "STORM" and "VILLAGE OF OAK LAWN" cast into them. Contractor shall determine and supply low profile frames and grates if the vertical dimension requires.

Hydraulic cement shall be used in the adjustment of said structure to seal the outside of the adjustment rings and under the frame.

Each structure adjustment shall be limited to two adjustment rings. The final ring and rings under 2" on all drainage adjustments shall be rubber. The CONTRACTOR shall place a continuous strip 3/8" thick of polyurethane sealer/adhesive between the PCC structure or PCC ring and the bottom of the rubber ring. The CONTRACTOR shall also place a continuous strip 3/8" thick of polyurethane sealer/adhesive between the top of the rubber ring and the bottom of the frame.

The Contractor is responsible for tying in all existing storm sewers to the proposed structure. Up to 15 feet of new sewer (if required) for each existing sewer tying into the proposed structure shall be considered incidental to this pay item. The CONTRACTOR shall be responsible for verifying the size, inverts and locations of the existing sewers to be connected to the proposed structure. Any existing storm sewers that are damaged during construction shall be replaced in kind by the Contractor at no additional cost. Existing pipe can be re-used only with approval of the Engineer. If dissimilar pipes are necessary to make the connection, a non-shear rubber coupling must be used at no additional cost. In addition, the Contractor will be responsible for determining which structures require precast concrete flat slab tops in accordance with IDOT Standard 602601. Flat slab tops will only be allowed where a conical section cannot be installed due to a lack of clearance. This work shall be included in the cost of the specified proposed structure.

When connecting to an existing sewer main by means other than an existing “Y”, “T”, or an existing manhole, one of the following methods shall be used:

1. Using pipe cutter, neatly and accurately cut out desired length of pipe for insertion of proper fittings. Use “band-seal” couplings or similar couplings, and non-shear rings and clamps to fasten the inserted fittings and hold it firmly in place. Mission couplings shall have the length of boot approximately equal to the pipe diameter. Follow manufacturer’s recommendations for the installation. No cut-in connection, made by breaking or cutting a hole in the main and inserting the spigot end of an ordinary sewer pipe shall be permitted.

2. Circular, saw-cut of sewer main with proper tools (“Shewer-tap” machine or similar) and proper installation of hub-“Y” saddle or hub-“T” saddle, in accordance with manufacturer’s recommendations. This method shall only be allowed for pipe sizes over 12 inches in diameter. All must be encased in concrete flowable fill.

If coring proposed storm sewer into an existing structure, any gaps around the outside of the proposed pipe shall be completed filled in with Class SI Concrete to the approval of the Engineer.

Method of Measurement and Basis of Payment. This work shall be paid for at the contract unit price per EACH for CATCH BASINS, MANHOLES, or INLETS of the size specified, together with the specified frames and lids, which price will include all excavation, backfilling, sand cushion, flat slab tops (when required), and existing sewer connections required to complete the work.

FRAMES AND GRATES; FRAMES AND LIDS

Description. This work shall apply to furnishing new castings to replace casting on existing structures, or to new castings on new structures, where directed by the Engineer. This work shall be performed in accordance with Sections 602 and 604 of the Standard Specifications, with the following modifications:

- Existing castings deemed by Engineer to be in re-usable condition remain the property of Village and shall be delivered by Contractor to Village's Public Works Department Yard. Delivery shall be considered incidental to the Contract.

- All lids adjacent to an ADA ramp shall be an ADA Compliant Cast Open Lid Type 1 Frame as identified in the latest IDOT Highway Standard 604001.

- All other castings shall be disposed of by Contractor, at his expense.

- Contractor shall submit the manufacturer and type of frames, grates, and lids proposed for use as Type 1 and Type 8, to the Village for approval prior to ordering materials.

Lids shall have machined bearing surfaces, and "concealed" pick holes. The top surface of lids shall be embossed with the words "VILLAGE OF OAK LAWN", and "STORM SEWER", "WATER" or "SANITARY SEWER", as appropriate for each structure.

Curb frames shall be Neenah R-3278 or EJ 7010 (or approved equal).
Manhole frames shall be Neenah R-1713 or approved equal.

Method of Measurement and Basis of Payment. This work shall be paid for at the contract unit price per EACH for FRAMES of the size specified, which price will include all material, equipment, and labor required to complete the work as specified herein.

COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

Description. This work shall consist of the removal of the existing curb and gutter and the construction of new concrete curb and gutter to match the existing curb and gutter type, including all necessary sawcutting, excavation, embankment and doweling as shown in the detail on the plans and in accordance with Sections 606, 202, 205 and 311 of the STANDARD SPECIFICATIONS and as specified herein. For the purposes of this item, no differentiation shall be made between concrete curb, combination concrete curb and gutter, and integrally-poured concrete curb and gutter. Subbase granular material shall be included in the cost of this work. Concrete curb and gutter shall be constructed to the lines and grades established by the Engineer. Many streets have concrete base with curbs tied into the concrete with rebar. Sawcutting is incidental to removal of curb and should be completed as needed to remove the curbs without damaging adjacent pavements.

New curb and gutter shall match the existing curb and gutter type, unless directed by the Engineer. All transitions from new curb type to old curb type shall be paid for as COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT. If new curb is to be constructed adjacent to concrete pavement or concrete base, 18” epoxy coated #4 tie bars shall be installed incidental to the work.

In addition to the requirements of Article 606.06 of the STANDARD SPECIFICATIONS the Contractor shall excavate all material necessary to build the proposed curb and gutter and proposed subbase in accordance with Section 202 of the STANDARD SPECIFICATIONS. The area between the edge of the existing pavement and the face of the new gutter shall be cleaned of all loose material and then filled with Class SI concrete to a minimum 6-inch width, 2" below the top of the proposed gutter flag. Driveways shall not be removed for forming purposes unless approved by the Engineer.

The proposed subbase shall be subbase granular material, Type B with minimum thickness of 4” in accordance with Section 311 of the STANDARD SPECIFICATIONS. Backfill behind the proposed back of curb shall be in accordance with Section 205 of the STANDARD SPECIFICATIONS. Any existing pavement removed adjacent to the new curb and gutter shall be replaced in-kind.

The Contractor shall machine-saw a perpendicular clean joint between that portion of the curb and gutter to be removed and that which is to remain in place. If the Contractor removes or damages the existing curb and gutter outside the limits designated by the Engineer for removal and replacement, he will be required to remove and replace that portion at his own expense to the satisfaction of the Engineer

Contractor shall use full forms on both sides of the patch – 9” at edge of pavement and either 12” or 15” at back of curb.

Where Class D pavement patching will be adjacent to replacement curb and gutter, the curb and gutter replacement shall be completed first. Class B pavement patches may be constructed integrally when adjacent to curb and gutter.

Contraction joints in the curb and gutter shall be coincident with and a prolongation of transverse joints or working cracks in adjacent PCC pavement. For HMA pavement sections, contraction joints shall be provided at uniform intervals not to exceed 15 feet.

Reinforcement/doweling of new curb and gutter shall be as shown on the detail in the plans. Two #4 continuous, epoxy coated rebar shall be placed in new curb and gutter sections longer than five (5) feet, incidental to this pay item with no additional compensation.

At each location where the new curb meets the existing curb, the existing and new curb shall be tied together with 2 - No. 8 epoxy coated smooth dowel bars, 18” long. Dowels shall be drilled and grouted into the existing curb.

The Contractor shall backfill behind the new curb and gutter, to the satisfaction of the Engineer, within seven (7) calendar days of the placement of the curb and gutter. Failure to comply will result in a charge of $500.00 per calendar day. This charge is separate from the cost of any corrective work ordered. The contractor shall not be relieved of any contractual responsibilities by the Village's action.

Method of Measurement shall be per Article 606, except any earth excavation will not be measured for payment for curb and gutter removal and replacement, but shall be included in the payment for COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT.

For work on streets identified for complete curb and gutter removal and replacement, the Contractor shall be responsible for furnishing all labor, materials and equipment necessary to document, lay out and re-establish existing curb and gutter and pavement grades. At a minimum, Contractor shall be required to survey and stake out existing and proposed edge of pavement and back of curb locations (horizontal and vertical) at 15’ intervals as well as high points, low points and other locations of key grade change. Where deviations from existing grades are requested by the Village, the Village/Engineer shall determine proposed grades prior to Contractor layout, and shall be responsible for verifying the Contractor’s layout in the field before construction commences.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per LINEAR FOOT of COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT regardless of curb and gutter type removed and replaced; measured in place, which price shall include all materials, labor, tools, equipment, and any incidentals, including pavement removal, excavation, tie bars and dowel bars and continuous reinforcement, expansion joints, and backfill necessary to satisfactorily complete the Work as described herein, including all subbase granular material and all required excavation for subbase materials to construct this item as specified.

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES (BDE)

Effective: January 1, 2019
Revised: January 1, 2020

Revise Section 669 of the Standard Specifications to read:

"**SECTION 669. REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES**

669.01 Description. This work shall consist of the transportation and proper disposal of regulated substances. This work shall also consist of the removal, transportation, and proper disposal of underground storage tanks (UST), their contents and associated underground piping to the point where the piping is above the ground, including determining the content types and estimated quantities.

669.02 Equipment. The Contractor shall notify the Engineer of the delivery of all excavation, storage, and transportation equipment to a work area location. The equipment shall comply with OSHA and American Petroleum Institute (API) guidelines and shall be furnished in a clean condition. Clean condition means the equipment does not contain any residual material classified as a non-special waste, non-hazardous special waste, or hazardous waste. Residual materials include, but are not limited to, petroleum products, chemical products, sludges, or any other material present in or on equipment.

Before beginning any associated soil or groundwater management activity, the Contractor shall provide the Engineer with the opportunity to visually inspect and approve the equipment. If the equipment contains any contaminated residual material, decontamination shall be performed on the equipment as appropriate to the regulated substance and degree of contamination present according to OSHA and API guidelines. All cleaning fluids used shall be treated as the contaminant unless laboratory testing proves otherwise.

669.03 Pre-Construction Submittals and Qualifications. Prior to beginning this work, or working in areas with regulated substances, the Contractor shall submit a "Regulated Substances Pre-Construction Plan (RSPCP)" to the Engineer for review and approval using form BDE 2730. The form shall be signed by an Illinois licensed Professional Engineer or Professional Geologist.

As part of the RSPCP, the Contractor(s) or firm(s) performing the work shall meet the following qualifications.

(a) Regulated Substances Monitoring. Qualification for environmental observation and field screening of regulated substances work and environmental observation of UST removal shall require either pre-qualification in Hazardous Waste by the Department or demonstration of acceptable project experience in remediation and operations for contaminated sites in accordance with applicable Federal, State, or local regulatory requirements using BDE 2730.

Qualification for each individual performing regulated substances monitoring shall require a minimum of one-year of experience in similar activities as those required for the project.

(b) Underground Storage Tank Removal. Qualification for underground storage tank (UST) removal work shall require licensing and certification with the Office of the State Fire Marshall (OSFM) and possession of all permits required to perform the work. A copy of the permit shall be provided to the Engineer prior to tank removal.

The qualified Contractor(s) or firm(s) shall also document it does not have any current or former ties with any of the properties contained within, adjoining, or potentially affecting the work.

The Engineer will require up to 21 calendar days for review of the RSPCP. The review may involve rejection or revision and resubmittal; in which case, an additional 21 days will be required for each subsequent review. Work shall not commence until the RSPCP has been approved by the Engineer. After approval, the RSPCP shall be revised as necessary to reflect changed conditions in the field and documented using BDE 2730A “Regulated Substances Pre-Construction Plan (RSPCP) Addendum” and submitted to the Engineer for approval.

CONSTRUCTION REQUIREMENTS

669.04 Regulated Substances Monitoring. Regulated substances monitoring includes environmental observation and field screening during regulated substances management activities at the contract specific work areas. As part of the regulated substances monitoring, the monitoring personnel shall perform and document the applicable duties listed on form BDE 2732 “Regulated Substances Monitoring Daily Record (RSMDR)”.

(a) Environmental Observation. Prior to beginning excavation, the Contractor shall mark the limits of the contract specific work areas. Once work begins, the monitoring personnel shall be present on-site continuously during the excavation and loading of material.

(b) Field Screening. Field screening shall be performed during the excavation and loading of material from the contract specific work areas, except for material classified according to Article 669.05(b)(1) or 669.05(c) where field screening is not required.

Field screening shall be performed with either a photoionization detector (PID) (minimum 10.6eV lamp) or a flame ionization detector (FID), and other equipment as appropriate, to monitor for potential contaminants associated with regulated substances. The PID or FID shall be calibrated on-site, and background level readings taken and recorded daily, and as field and weather conditions change.

Field screen readings on the PID or FID in excess of background levels indicates the potential presence of regulated substances requiring handling as a non-special waste, special waste, or hazardous waste. PID or FID readings may be used as the basis of increasing the limits of removal with the approval of the Engineer but shall in no case be used to decrease the limits.

669.05 Regulated Substances Management and Disposal. The management and disposal of soil and/or groundwater containing regulated substances shall be according to the following:

(a) Soil Analytical Results Exceed Most Stringent MAC. When the soil analytical results indicate detected levels exceed the most stringent maximum allowable concentration (MAC) for chemical constituents in soil established pursuant to Subpart F of 35 Ill. Adm. Code 1100.605, the soil shall be managed as follows:

(1) When analytical results indicate inorganic chemical constituents exceed the most stringent MAC, but still considered within area background levels by the Engineer, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable. If the soils cannot be utilized within the right-of-way, they shall be managed and disposed of at a landfill as a non-special waste.

(2) When analytical results indicate inorganic chemical constituents exceed the most stringent MAC but do not exceed the MAC for a Metropolitan Statistical Area (MSA) County identified in 35 Ill. Admin. Code 742 Appendix A. Table G, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of at a clean construction and demolition debris (CCDD) facility or an uncontaminated soil fill operation (USFO) within an MSA County provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.

(3) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, or the MAC within the Chicago corporate limits, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site at a CCDD facility or an USFO within an MSA County excluding Chicago or within the Chicago corporate limits provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.

(4) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site at a CCDD facility or an USFO within an MSA County excluding Chicago provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.

(5)When the Engineer determines soil cannot be managed according to Articles 669.05(a)(1) through (a)(4) above and the materials do not contain special waste or hazardous waste, as determined by the Engineer, the soil shall be managed and disposed of at a landfill as a non-special waste.

(6)When analytical results indicate soil is hazardous by characteristic or listing pursuant to 35 Ill. Admin. Code 721, contains radiological constituents, or the Engineer otherwise determines the soil cannot be managed according to Articles 669.05(a)(1) through (a)(5) above, the soil shall be managed and disposed of off-site as a special waste or hazardous waste as applicable.

(b) Soil Analytical Results Do Not Exceed Most Stringent MAC. When the soil analytical results indicate that detected levels do not exceed the most stringent MAC, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site according to Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO for any of the following reasons.

(1)The pH of the soil is less than 6.25 or greater than 9.0.

(2)The soil exhibited PID or FID readings in excess of background levels.

(c) Soil Analytical Results Exceed Most Stringent MAC but Do Not Exceed Tiered Approach to Corrective Action Objectives (TACO) Residential. When the soil analytical results indicate that detected levels exceed the most stringent MAC but do not exceed TACO Tier 1 Soil Remediation Objectives for Residential Properties pursuant to 35 Ill. Admin. Code 742 Appendix B Table A, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site according to Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO.

(d) Groundwater. When groundwater analytical results indicate the detected levels are above Appendix B, Table E of 35 Ill. Admin. Code 742, the most stringent Tier 1 Groundwater Remediation Objectives for Groundwater Component of the Groundwater Ingestion Route for Class 1 groundwater, the groundwater shall be managed off-site as a special waste or hazardous waste as applicable. Special waste groundwater shall be containerized and trucked to an off-site treatment facility, or may be discharged to a sanitary sewer or combined sewer when permitted by the local sewer authority. Groundwater discharged to a sanitary sewer or combined sewer shall be pre-treated to remove particulates and measured with a calibrated flow meter to comply with applicable discharge limits. A copy of the permit shall be provided to the Engineer prior to discharging groundwater to the sanitary sewer or combined sewer.

Groundwater encountered within trenches may be managed within the trench and allowed to infiltrate back into the ground. If the groundwater cannot be managed within the trench, it may be discharged to a sanitary sewer or combined sewer when permitted by the local sewer authority, or it shall be containerized and trucked to an off-site treatment facility as a special waste or hazardous waste. The Contractor is prohibited from discharging groundwater within the trench through a storm sewer. The Contractor shall install backfill plugs within the area of groundwater contamination.

One backfill plug shall be placed down gradient to the area of groundwater contamination. Backfill plugs shall be installed at intervals not to exceed 50 ft (15 m). Backfill plugs are to be 4 ft (1.2 m) long, measured parallel to the trench, full trench width and depth. Backfill plugs shall not have any fine aggregate bedding or backfill, but shall be entirely cohesive soil or any class of concrete. The Contractor shall provide test data that the material has a permeability of less than 10^{-7} cm/sec according to ASTM D 5084, Method A or per another test method approved by the Engineer.

The Contractor shall use due care when transferring contaminated material from the area of origin to the transporter. Should releases of contaminated material to the environment occur (i.e., spillage onto the ground, etc.), the Contractor shall clean-up spilled material and place in the appropriate storage containers as previously specified. Clean-up shall include, but not be limited to, sampling beneath the material staging area to determine complete removal of the spilled material.

The Contractor shall provide engineered barriers, when required, and shall include materials sufficient to completely line excavation surfaces, including sloped surfaces, bottoms, and sidewall faces, within the areas designated for protection.

The Contractor shall obtain all documentation including any permits and/or licenses required to transport the material containing regulated substances to the disposal facility. The Contractor shall coordinate with the Engineer on the completion of all documentation. The Contractor shall make all arrangements for collection and analysis of landfill acceptance testing. The Contractor shall coordinate waste disposal approvals with the disposal facility.

The Contractor shall provide the Engineer with all transport-related documentation within two days of transport or receipt of said document(s). For management of special or hazardous waste, the Contractor shall provide the Engineer with documentation that the Contractor is operating with a valid Illinois special waste transporter permit at least two weeks before transporting the first load of contaminated material.

Transportation and disposal of material classified according to Article 669.05(a)(5) or 669.05(a)(6) shall be completed each day so that none of the material remains on-site by the close of business, except when temporary staging has been approved.

Any waste generated as a special or hazardous waste from a non-fixed facility shall be manifested off-site using the Department's county generator number provided by the Bureau of Design and Environment. An authorized representative of the Department shall sign all manifests for the disposal of the contaminated material and confirm the Contractor's transported volume. Any waste generated as a non-special waste may be managed off-site without a manifest, a special waste transporter, or a generator number.

The Contractor shall select a landfill permitted for disposal of the contaminant within the State of Illinois. The Department will review and approve or reject the facility proposed by the Contractor to use as a landfill. The Contractor shall verify whether the selected disposal facility is compliant with those applicable standards as mandated by their permit and whether the disposal facility is presently, has previously been, or has never been, on the United States Environmental Protection Agency (U.S. EPA) National Priorities List or the Resource Conservation and Recovery Act (RCRA) List of Violating Facilities. The use of a Contractor selected landfill shall in no manner delay the construction schedule or alter the Contractor's responsibilities as set forth.

669.06 Non-Special Waste Certification. An authorized representative of the Department shall sign and date all non-special waste certifications. The Contractor shall be responsible for providing the Engineer with the required information that will allow the Engineer to certify the waste is not a special waste.

(a) Definition. A waste is considered a non-special waste as long as it is not:

(1) a potentially infectious medical waste;

(2) a hazardous waste as defined in 35 Ill. Admin. Code 721;

(3) an industrial process waste or pollution control waste that contains liquids, as determined using the paint filter test set forth in subdivision (3)(A) of subsection (m) of 35 Ill. Admin. Code 811.107;

(4) a regulated asbestos-containing waste material, as defined under the National Emission Standards for Hazardous Air Pollutants in 40 CFR Part 61.141;

(5) a material containing polychlorinated biphenyls (PCB's) regulated pursuant to 40 CFR Part 761;

(6) a material subject to the waste analysis and recordkeeping requirements of 35 Ill. Admin. Code 728.107 under land disposal restrictions of 35 Ill. Admin. Code 728;

(7) a waste material generated by processing recyclable metals by shredding and required to be managed as a special waste under Section 22.29 of the Environmental Protection Act; or

(8) an empty portable device or container in which a special or hazardous waste has been stored, transported, treated, disposed of, or otherwise handled.

(b) Certification Information. All information used to determine the waste is not a special waste shall be attached to the certification. The information shall include but not be limited to:

(1) the means by which the generator has determined the waste is not a hazardous waste;

(2) the means by which the generator has determined the waste is not a liquid;

(3) if the waste undergoes testing, the analytic results obtained from testing, signed and dated by the person responsible for completing the analysis;

(4) if the waste does not undergo testing, an explanation as to why no testing is needed;

(5) a description of the process generating the waste; and

(6) relevant material safety data sheets.

669.07 Temporary Staging. Soil classified according to Articles 669.05(a)(2), (b)(1), or (c) may be temporarily staged at the Contractor's option. Soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) shall be managed and disposed of without temporary staging to the greatest extent practicable. If circumstances beyond the Contractor's control require temporary staging of these latter materials, the Contractor shall request approval from the Engineer in writing.

Temporary staging shall be accomplished within the right-of-way and the Contractor's means and methods shall be described in the approved or amended RSPCP. Staging areas shall not be located within 200 feet (61 m) of a public or private water supply well; nor within 100 feet (30 m) of sensitive environmental receptor areas, including wetlands, rivers, streams, lakes, or designated habitat zones.

The method of staging shall consist of containerization or stockpiling as applicable for the type, classification, and physical state (i.e., liquid, solid, semisolid) of the material. Materials of different classifications shall be staged separately with no mixing or co-mingling.

When containers are used, the containers and their contents shall remain intact and inaccessible to unauthorized persons until the manner of disposal is determined. The Contractor shall be responsible for all activities associated with the storage containers

including, but not limited to, the procurement, transport, and labeling of the containers. The Contractor shall not use a storage container if visual inspection of the container reveals the presence of free liquids or other substances that could cause the waste to be reclassified as a hazardous or special waste.

When stockpiles are used, they shall be covered with a minimum 20-mil plastic sheeting or tarps secured using weights or tie-downs. Perimeter berms or diversionary trenches shall be provided to contain and collect for disposal any water that drains from the soil. Stockpiles shall be managed to prevent or reduce potential dust generation.

When staging non-special waste, special waste, or hazardous waste, the following additional requirements shall apply:

(a) Non-Special Waste. When stockpiling soil classified according to Article 669.05(a)(1) or 669.05(a)(5), an impermeable surface barrier between the materials and the ground surface shall be installed. The impermeable barrier shall consist of a minimum 20-mil plastic liner material and the surface of the stockpile area shall be clean and free of debris prior to placement of the liner. Measures shall also be taken to limit or discourage access to the staging area.

(b) Special Waste and Hazardous Waste. Soil classified according to Article 669.05(a)(6) shall not be stockpiled but shall be containerized immediately upon generation in containers, tanks or containment buildings as defined by RCRA, Toxic Substances Control Act (TSCA), and other applicable State or local regulations and requirements, including 35 Ill. Admin. Code Part 722, Standards Applicable to Generators of Hazardous Waste.

The staging area(s) shall be enclosed (by a fence or other structure) to restrict direct access to the area, and all required regulatory identification signs applicable to a staging area containing special waste or hazardous waste shall be deployed.

Storage containers shall be placed on an all-weather gravel-packed, asphalt, or concrete surface. Containers shall be in good condition and free of leaks, large dents, or severe rusting, which may compromise containment integrity. Containers must be constructed of, or lined with, materials that will not react or be otherwise incompatible with the hazardous or special waste contents. Containers used to store liquids shall not be filled more than 80 percent of the rated capacity. Incompatible wastes shall not be placed in the same container or comingled.

All containers shall be legibly labeled and marked using pre-printed labels and permanent marker in accordance with applicable regulations, clearly showing the date of waste generation, location and/or area of waste generation, and type of waste. The Contractor shall place these identifying markings on an exterior side surface of the container.

Storage containers shall be kept closed, and storage pads covered, except when access is needed by authorized personnel.

Special waste and hazardous waste shall be transported and disposed within 90 days from the date of generation.

669.08 Underground Storage Tank Removal. For the purposes of this section, an underground storage tank (UST) includes the underground storage tank, piping, electrical controls, pump island, vent pipes and appurtenances.

Prior to removing an UST, the Engineer shall determine whether the Department is considered an "owner" or "operator" of the UST as defined by the UST regulations (41 Ill. Adm. Code Part 176). Ownership of the UST refers to the Department's owning title to the UST during storage, use or dispensing of regulated substances. The Department may be considered an "operator" of the UST if it has control of, or has responsibility for, the daily operation of the UST. The Department may however voluntarily undertake actions to remove an UST from the ground without being deemed an "operator" of the UST.

In the event the Department is deemed not to be the "owner" or "operator" of the UST, the OSFM removal permit shall reflect who was the past "owner" or "operator" of the UST. If the "owner" or "operator" cannot be determined from past UST registration documents from OSFM, then the OSFM removal permit will state the "owner" or "operator" of the UST is the Department. The Department’s Office of Chief Counsel (OCC) will review all UST removal permits prior to submitting any removal permit to the OSFM. If the Department is not the “owner” or “operator” of the UST then it will not register the UST or pay any registration fee.

The Contractor shall be responsible for obtaining permits required for removing the UST, notification to the OSFM, using an OSFM certified tank contractor, removal and disposal of the UST and its contents, and preparation and submittal of the OSFM Site Assessment Report in accordance with 41 Ill. Admin. Code Part 176.330.

The Contractor shall contact the Engineer and the OSFM's office at least 72 hours prior to removal to confirm the OSFM inspector's presence during the UST removal. Removal, transport, and disposal of the UST shall be according to the applicable portions of the latest revision of the "American Petroleum Institute (API) Recommended Practice 1604".

The Contractor shall collect and analyze tank content (sludge) for disposal purposes. The Contractor shall remove as much of the regulated substance from the UST system as necessary to prevent further release into the environment. All contents within the tank shall be removed, transported and disposed of, or recycled. The tank shall be removed and rendered empty according to IEPA definition.

The Contractor shall collect soil samples from the bottom and sidewalls of the excavated area in accordance with 35 Ill. Admin. Code Part 734.210(h) after the required backfill has been removed during the initial response action, to determine the level of contamination

remaining in the ground, regardless if a release is confirmed or not by the OSFM on-site inspector.

In the event the UST is designated a leaking underground storage tank (LUST) by the OSFM's inspector, or confirmation by analytical results, the Contractor shall notify the Engineer and the District Environmental Studies Unit (DESU). Upon confirmation of a release of contaminants and notifications to the Engineer and DESU, the Contractor shall report the release to the Illinois Emergency Management Agency (IEMA) (e.g., by telephone or electronic mail) and provide them with whatever information is available ("owner" or "operator" shall be stated as the past registered "owner" or "operator", or the IDOT District in which the tank is located and the DESU Manager).

The Contractor shall perform the following initial response actions if a release is indicated by the OSFM inspector:

(a) Take immediate action to prevent any further release of the regulated substance to the environment, which may include removing, at the Engineer's discretion, and disposing of up to 4 ft (1.2 m) of the contaminated material, as measured from the outside dimension of the tank;

(b) Identify and mitigate fire, explosion and vapor hazards;

(c) Visually inspect any above ground releases or exposed below ground releases and prevent further migration of the released substance into surrounding soils and groundwater; and

(d) Continue to monitor and mitigate any additional fire and safety hazards posed by vapors and free product that have migrated from the tank excavation zone and entered into subsurface structures (such as sewers or basements).

The tank excavation shall be backfilled according to applicable portions of Sections 205, 208, and 550 with a material that will compact and develop stability. All uncontaminated concrete and soil removed during tank extraction may be used to backfill the excavation, at the discretion of the Engineer.

After backfilling the excavation, the site shall be graded and cleaned.

669.09 Regulated Substances Final Construction Report. Not later than 90 days after completing this work, the Contractor shall submit a "Regulated Substances Final Construction Report (RSFCR)" to the Engineer using form BDE 2733 and required attachments. The form shall be signed by an Illinois licensed Professional Engineer or Professional Geologist.

669.10 Method of Measurement. Non-special waste, special waste, and hazardous waste soil will be measured for payment according to Article 202.07(b) when performing earth excavation, Article 502.12(b) when excavating for structures, or by computing the volume of the trench using the maximum trench width permitted and the actual depth of the trench.

Groundwater containerized and transported off-site for management, storage, and disposal will be measured for payment in gallons (liters).

Backfill plugs will be measured in cubic yards (cubic meters) in place, except the quantity for which payment will be made shall not exceed the volume of the trench, as computed by using the maximum width of trench permitted by the Specifications and the actual depth of the trench, with a deduction for the volume of the pipe.

Engineered Barriers will be measured for payment in square yards (square meters).

669.11 Basis of Payment. The work of preparing, submitting and administering a Regulated Substances Pre-Construction Plan will be paid for at the contract lump sum price for REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN.

Regulated substances monitoring, including completion of form BDE 2732 for each day of work, will be paid for at the contract unit price per calendar day, or fraction thereof to the nearest 0.5 calendar day, for REGULATED SUBSTANCES MONITORING.

The installation of engineered barriers will be paid for at the contract unit price per square yard (square meter) for ENGINEERED BARRIER.

The work of UST removal, soil excavation, soil and content sampling, the management of excavated soil and UST content, and UST disposal, will be paid for at the contract unit price per each for UNDERGROUND STORAGE TANK REMOVAL.

The transportation and disposal of soil and other materials from an excavation determined to be contaminated will be paid for at the contract unit price per cubic yard (cubic meter) for NON-SPECIAL WASTE DISPOSAL, SPECIAL WASTE DISPOSAL, or HAZARDOUS WASTE DISPOSAL.

The transportation and disposal of groundwater from an excavation determined to be contaminated will be paid for at the contract unit price per gallon (liter) for SPECIAL WASTE GROUNDWATER DISPOSAL or HAZARDOUS WASTE GROUNDWATER DISPOSAL. When groundwater is discharged to a sanitary or combined sewer by permit, the cost will be paid for according to Article 109.05.

Backfill plugs will be paid for at the contract unit price per cubic yard (cubic meter) for BACKFILL PLUGS.

Payment for temporary staging of soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) will be paid for according to Article 109.04. The Department will not be responsible for any additional costs incurred, if mismanagement of the staging area, storage containers, or their contents by the Contractor results in excess cost expenditure for disposal or other material management requirements.

Payment for accumulated stormwater removal and disposal will be according to Article 109.04. Payment will only be allowed if appropriate stormwater and erosion control methods were used.

Payment for decontamination, labor, material, and equipment for monitoring areas beyond the specified areas, with the Engineer's prior written approval, will be according to Article 109.04.

When the waste material for disposal requires sampling for landfill disposal acceptance, the samples shall be analyzed for TCLP VOCs, SVOCs, RCRA metals, pH, ignitability, and paint filter test. The analysis will be paid for at the contract unit price per each for SOIL DISPOSAL ANALYSIS using EPA Methods 1311 (extraction), 8260B for VOCs, 8270C for SVOCs, 6010B and 7470A for RCRA metals, 9045C for pH, 1030 for ignitability, and 9095A for paint filter.

The work of preparing, submitting and administering a Regulated Substances Final Construction Report will be paid for at the contract lump sum price REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT.”

80407

TRAFFIC CONTROL AND PROTECTION (SPECIAL)

Traffic Control shall be according to the applicable sections of the STANDARD SPECIFICATIONS, the Supplemental Specifications, the "Illinois Manual of Uniform Traffic Control Devices for Streets and Highways", any special details and Highway Standards contained in the plans, and the Special Provisions contained herein. Special attention is called to Article 107.09 of the STANDARD SPECIFICATIONS and the following Highway Standards, Details, Quality Standard for Work Zone Traffic Control Devices, Recurring Special Provisions and Special Provisions contained herein, relating to traffic control.

The contractor shall erect information signage at the limits of the job a minimum of 1 week prior to beginning work. The signage shall clearly state the construction start date.

Contractors shall assume that all work shown on the plans will be completed under live traffic, with the contractor responsible for providing traffic control in accordance with IDOT standard details and specification.

STANDARDS:
701001, 701006, 701501, 701801, 701901

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

Traffic Control and Protection shall be provided as called for in the Plans, these Special Provisions, applicable Highway Standards, applicable sections of the STANDARD SPECIFICATIONS, or as directed by the Engineer.

The governing factor in the execution and staging of work for this project is to provide the motoring public with the safest possible travel conditions along the roadway through the construction zone. The Contractor shall arrange his operations to keep the closing of any lane of the roadway to a minimum.

Traffic Control Devices include signs and their supports, signals, pavement markings, barricades with sandbags, channelized devices, warning lights, arrow boards, flaggers, or any other device used for the purpose of regulating, detouring, warning or guiding traffic through or around the construction zone.

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

The Contractor shall be responsible for the proper location, installation and arrangement of all traffic control devices. Special attention shall be given to advance warning signs during construction operations in order to keep lane assignments consistent with barricade placement at all times. The Contractor shall immediately remove, cover or turn from view of the motorists all traffic control devices which are inconsistent with detour or lane assignment patterns and conflicting conditions during the transition from one construction stage to another. When the Contractor elects to cover conflicting or inappropriate signing, materials used shall totally block out reflectivity of the sign and shall cover the entire sign. The method used for covering the signing shall meet with the approval of the Engineer.

The Contractor shall coordinate all traffic control work on this project with adjoining or overlapping projects, including barricade placement necessary to provide a uniform traffic detour pattern. When directed by the Engineer, the Contractor shall remove all traffic control devices which were furnished, installed and maintained by him under this contract, and such devices shall remain the property of the Contractor. All traffic control devices shall remain in place until specific authorization for relocation or removal is received from the Engineer.

The Contractor shall ensure that all traffic control devices installed by him are operational, functional and effective 24-hours per day, including Sundays and holidays.

Barricades shall be placed to protect all open excavations greater than four (4) inches deep (patches, curb and gutter/sidewalk that has not yet been backfilled, etc.) and parked construction equipment at the end of each working day and at all times when work is not being performed in the immediate area of the excavations and parked equipment.

The Contractor shall provide a telephone number where a responsible individual can be contacted on a 24-hour a day basis to receive notification of any deficiencies regarding traffic control and protection. The Contractor shall dispatch men, materials, and equipment to correct any such deficiencies. The Contractor shall respond to any call from the Village or its representative concerning any request for improving or correcting traffic control devices and begin making the requested repairs within two hours from the time of notification.

Where Class D patching is constructed, the Contractor shall keep one lane of traffic open at all times, staging the work to accomplish as needed. Contractor shall provide traffic control in accordance applicable IDOT Standard Details. The use of steel plates will be allowed.

All roads shall remain open to traffic. Any road closure shall require the consent of the Village. The Contractor shall also maintain entrances and side roads along the proposed improvement. Interference with traffic movements and inconvenience to owners of abutting property and the public shall be kept to a minimum. Any delays or inconveniences caused by the Contractor by complying with these requirements shall be considered as incidental to the contract, and no additional compensation will be allowed.

No road closures or restrictions shall be permitted without written approval by the Village. It is anticipated that one lane of traffic be available on each street during work hours and two lanes available overnight. In special cases a road closure may be allowed by the Village if requested in advance by the Contractor. A detour plan must be submitted and approved by the Village prior to any closure and notices delivered to affected parties (residents, schools, emergency services, trash removal companies). Supply and maintenance of traffic control devices and signs for any detour shall be included in this pay item; no additional compensation will be made to Contractor. It is anticipated that the mainline storm sewer work is to be constructed via moving detours.

Deficiency Charge. The primary concern of the Village is to maintain a safe travel way for the public and a safe Environment for the worker in the construction zone. The Contractor is expected to comply with the STANDARD SPECIFICATIONS, contract plans, these Special Provisions, and directions from the Engineer concerning traffic control protection. The Contractor shall provide a telephone number where a responsible individual can be contacted on a 24-hour a day basis to receive notification of any deficiencies regarding traffic control and protection. The Contractor shall immediately respond correcting traffic control deficiencies by dispatching men, materials and equipment to correct such deficiencies.

If the Contractor fails to begin corrections to the traffic control deficiencies within one (1) hour of the initial attempt of notification by the Village or its representative or fails to restore the traffic control and protection compliance with the specifications within four (4) hours of the original attempt of notification, the Village may execute such work as deemed necessary to correct the deficiencies. The cost thereof shall be deducted from monies due or which may become due the Contractor.

Failure to comply with directions from the Engineer for corrections or modifications to the traffic control and protection will result in a charge of $1000.00 per calendar day. This charge is separate from the cost of any corrective work ordered. The contractor shall not be relieved of any contractual responsibilities by the Village's action.

Basis of Payment. This work will be paid for at the contract LUMP SUM price for TRAFFIC CONTROL AND PROTECTION (SPECIAL). All other traffic control and protection necessary to complete the work to the satisfaction of the Engineer shall be considered included in these pay items.

TREE TRIMMING

The purpose of this tree trimming operation shall be:

a. To remove all dead, dying, diseased, interfering, weak branches.
b. To remove under-branches to permit clearance of approximately 24-feet over a paved roadway to allow passage of second-class motor vehicles. To remove under-branches to permit clearance of approximately 12-feet over public sidewalks to allow safe passage of pedestrians. Balance trees evenly.
c. To remove all inferior interfering branches, and one of all crossed or rubbing branches where practical in such a manner that the removal thereof will not leave large holes in the general form of the tree.

1. All final cuts shall be made sufficiently close to the trunk or parent limb, without cutting into the branch collar or leaving a protruding stub, so that closure can readily begin under normal conditions. Clean cuts shall be made at all times.

2. All limbs to be removed must be cut in such a manner so as to prevent any ripping or tearing of the wood or bark on the parent or remaining stem. All limbs must be brought to the ground in such a manner as to prevent any damage to real or personal property, publicly or privately owned.

3. Any visible girdling roots, structural weakness, decayed trunk or branches, or split crotches or branches in the tree should be reported to the Director of Public Works in writing on forms provided by the Village. The Village may request the Contractor to remove any such tree reported to the Village under this paragraph.

4. No person working in trees shall use shoes with spikes, or any other footwear which will, in the opinion of the Director of Public Works, injure the tree being trimmed. At no time shall any person working in trees for pruning purposes, were spurs or climbing irons.

5. The Contractor shall clean up and dispose of all debris resulting from the trimming operation, including raking all lawn areas and sweeping paved areas. All work areas shall be cleaned up by the end of each work day. In addition, no elm or Ash logs will be left or given to any resident. All such logs must be disposed of outside the Village limits.

6. All debris from trees which may not have been acceptably or sufficiently trimmed initially, and which require additional trimming or other work prior to payment, will be cleaned up and disposed of by the Contractor.

All tree trimming must be performed under the direct supervision of a certified arborist.

Method of Measurement and Basis of Payment. This work will be measured and paid for at the contract unit price per EACH for TREE TRIMMING, which price shall include all required materials, equipment, and labor as necessary to complete this work as specified.

DIP CASING PIPE

Description. This work consists of furnishing labor, equipment, and material to construct casing pipes for water main, water services or sanitary services where the utility runs underneath the proposed storm sewer. Casing pipes will be Class 52 ductile iron pipe of diameter 4" (for water services), 8" (for 6" sanitary services), and 12" or 16" for water main. Water main in casing will require spacers (Cascade CCES or approved equal) as part of this item. Casing for water services shall be installed 12"-18" underneath the proposed storm sewer. Water main in casing will be installed at the direction of the Village of Oak Lawn. The ends of the sanitary sewer and water main casing pipe will be sealed with mortar and the water service casing sealed with spray foam after the lines are run through the casing pipe. Water service lines shall be protected using elastomeric foam pipe insulation of matching diameter secured to service lines as they are fed through the casing. Trench Backfill will be required in paved areas and is considered incidental to this pay item.

Materials. Casing pipe, where shown on the plans or directed by the Engineer in the field, shall be Class 52 water main quality ductile iron pipe. Ends will be sealed with mortar or spray foam as specified above. Spacers for watermain will be Cascade CCES or approved equal.

Construction Requirements. The casing pipe shall be installed in trench at elevation to allow the utility to maintain minimum clearance as directed by the Engineer underneath the proposed storm sewer. After the utilities are installed through the casing pipe, the ends of the pipe shall be sealed with mortar or spray foam meeting the approval of the Engineer. Casings shall extend approximately 3 feet beyond the outer wall of the storm sewer but can be adjusted to site conditions by the Engineer as applicable.

Method of Measurement. Casing pipe shall be measured as completed in place and the quantity computed for payment in LINEAL FEET of the appropriate size per contract unit price pay item.

Basis of Payment. This work will be paid for at the appropriate contract unit price per LINEAR FOOT for DIP CASING PIPE of the size indicated. All aggregate backfill (Trench Backfill as necessary) required to complete this work shall be considered incidental to this pay item.

JUNCTION CHAMBER

Description. This work shall consist of all work and materials required for the construction and installation of JUNCTION CHAMBER NO. 1 and JUNCTION CHAMBER NO. 2 in accordance with the plans and as specified herein. The dimensions shown on the plans are measured to the inside face of the chamber walls.

Materials.

Concrete:	IDOT Section 1020 Class PC (f' c min = 5,000 PSI at 28 days)
Reinforcing Steel:	ASTM A 706, Grade 60 (IL Modified)
Steps:	IDOT Standard 602701
Mastic Joint Sealer:	IDOT Section 1056
Loading:	Soil Loads and AASHTO HL-93

Construction Requirements. The precast junction chambers shall be constructed in accordance with IDOT Section 504. All excavation and granular backfill material shall be in accordance with IDOT Section 502. A 6" granular subbase shall be placed below the structure. The CONTRACTOR shall be responsible for verifying the size, inverts and locations of the sewers to be connected to the proposed junction chambers. A cast-in-place concrete bench slab shall be poured up to the inverts of the pipes to prevent standing water on the bottom slab. The CONTRACTOR shall take necessary precautions to prevent the chamber from becoming buoyant during construction. Trench Backfill material shall be per Section 208 of the SSRBC and the TRENCH BACKFILL, SPECIAL specification as included herein.

The CONTRACTOR has the option of constructing the junction chamber using cast in place concrete in accordance with IDOT Section 503, with prior permission from the VILLAGE. Cast-in-place concrete shall be IDOT class SI (f'c min = 3500 PSI).

The CONTRACTOR shall submit calculations and detailed shop drawings that are signed and sealed by a Structural Engineer licensed in the State of Illinois to the ENGINEER for review prior to ordering material or starting construction. The required thickness of the chambers bottom slab, sidewalls and top slab, and reinforcement details shall be shown on the shop drawings. The bottom slab of the structure may need to extend beyond the sidewalls of the structure to prevent the structure from becoming buoyant. This shall be considered in the calculations and shown in the shop drawings if needed.

A temporary shoring plan, signed and sealed by a Structural Engineer licensed in the State of Illinois, shall be submitted to the VILLAGE with corresponding calculations and other necessary information, for all temporary shoring required to accommodate safety and other requirements during construction. Temporary shoring plan shall be approved by the VILLAGE prior to installation of temporary shoring.

Method of Measurement and Basis of Payment. This work will be measured and paid for at the contract unit price per EACH for JUNCTION CHAMBER, of the number specified, as shown on the plans. All labor and materials associated with excavation, granular backfill (Trench Backfill as necessary), granular subbase, concrete, reinforcement bars, frame and grate, cast iron steps, precast concrete riser and slab, membrane waterproofing systems, temporary shoring and any miscellaneous items required for the junction chamber shall not be paid for separately, but shall be included in contract unit price per EACH for JUNCTION CHAMBER, of the number specified.

TEMPORARY ACCESS

Description. This work shall be constructed in accordance with Section 402.10 of the "Standard Specifications for Road and Bridge Construction" and the latest IDOT Highway Standards, except as specified herein.

EACH shall be defined as each driveway for (PRIVATE ENTRANCE) and each roadway entrance to an intersection for (ROAD).

It shall be the Contractor's responsibility to maintain all temporary access aggregate as directed by the Engineer at no additional cost.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per EACH for TEMPORARY ACCESS (PRIVATE ENTRANCE) or TEMPORARY ACCESS (ROAD) as directed by the Engineer, which price shall include all labor, material, and equipment necessary to complete the work as specified herein.

BRICK PAVER REMOVAL AND REINSTALLATION

This work shall consist of removing the existing brick pavers prior to beginning construction. The brick pavers shall be cleaned and paletted. Cleaning shall consist of removing all debris, mud, markings, etc. with water and a brush.

Upon completion of paving the roadway in accordance with the detail shown in the plans, a one inch (1") layer of sand, gradation FA-2 shall be constructed. The one (1") layer of sand shall be compacted with a hand compactor so that the finish is free of all undulations, ruts, tire mark and depressions. Prior to the placement of the brick pavers the ENGINEER shall visual inspect the portion of driveway to receive the brick pavers. The CONTRACTOR shall repair any area deemed necessary by the ENGINEER by adding additional sand and compacting the area.

The pattern of the brick pavers shall be identical to the pre-existing condition of the roadway prior to construction. Any damaged brick pavers shall be disposed of and will not be permitted to be installed. The ENGINEER shall inspect the brick pavers prior to installation. Any brick pavers deemed unsuitable for installation shall be properly disposed of. If a shortfall of brick pavers is encountered, the CONTRACTOR shall furnish additional brick pavers to match the existing brick pavers No additional compensation will be made for transporting and installing additional brick pavers required, but it shall be include in the unit cost for BRICK PAVER REMOVAL AND REINSTALLATION.

This work will be paid for at the contact unit price per SQUARE FOOT for BRICK PAVER REMOVAL AND REINSTALLATION, which price shall be payment in full for removing, cleaning, stacking, transporting and installing the brick pavers, transporting and installing additional brick pavers if required, furnishing and installing the bedding layer of sand and all labor, equipment and materials necessary to complete the as specified herein.

CONSTRUCTION LAYOUT

The Engineer will provide adequate reference points to the baseline of survey and benchmarks as shown in the plans and listed herein. Any additional control points set by the Engineer will be identified in the field to the Contractor and all field notes will be kept in the office of the Engineer.

The Contractor shall provide field forces, equipment and materials to set all additional stakes for this project, which are needed to establish offset stakes, reference points, and any other horizontal or vertical controls, including supplementary benchmarks, necessary to secure a correct layout of the work. Stakes for line and grade shall be set at sufficient station intervals (not to exceed 15 m (50 ft.)) to assure substantial conformance to plan line and grade. The Contractor will not be required to set additional stakes to locate a utility line which is not included as a pay item in the contract.

The Contractor shall be responsible for having the finished work substantially conform to the lines, grades, elevations and dimensions called for in the plans. Any inspection of checking of the Contractor's layout by the Engineer and the acceptance of all or any part of it shall not relieve the Contractor of his/her responsibility to secure the proper dimension, grades and elevations of the several parts of the work. The Contractor shall exercise care in the preservation of stakes and benchmarks and shall have them reset at his/her expense when any are damaged, lost, displaced or removed or otherwise obliterated.

Responsibility of the Engineer

a. The Engineer will locate and reference the baseline.

   Locating and referencing the baseline of survey will consist of establishing and referencing the control points of the baseline of surveys such as PC's, PT's and as many POT's as are necessary to provide a line of sight.

b. Benchmarks will be established along the project outside of the construction lines not exceeding 300 m (1,000 ft.) intervals horizontally and 6 m (20 ft.) Vertically.

c. Stakes set for (a) and (b) above will be identified in the field to the Contractor.

d. The Engineer will make random checks of the Contractor's staking to determine if the work is in substantial conformance with the plans. Where the Contractor's work will tie into work that is being or will be done by others, checks will be made to determine if the work is in conformance with the proposed overall grade and horizontal alignment.

e. The Engineer will set all stakes for utility adjustment for building fences along the right of way line by parties other than the Contractor.

f. The Engineer will make all arrangements and take all cross sections from which the various pay items are to be measured.

g. Where the Contractor, in setting construction stakes, discovers discrepancies, the Engineer will check to determine their nature and make whatever revisions are necessary in the plans, including the recross-sectioning of the area involved. Any additional restaking required by the Engineer will be the responsibility of the Contractor. The additional restaking done by the Contractor will be paid for in accordance with 109.04 of the STANDARD SPECIFICATIONS.

h. The Engineer will accept responsibility for the accuracy of the initial control points as provided herein.

i. It is not the responsibility of the Engineer, except as provided herein, to check the correctness of the Contractor's stakes; however, any errors that are apparent will be immediately called to the Contractor's attention and s(he) shall be required to make the necessary correction before the stakes are used for construction purposes.

j. Where the plan quantities for excavation are to be used as the final pay quantities, the Engineer will make sufficient checks to determine if the work has been completed in substantial conformance with the plan cross sections.

Responsibility of the Contractor

a. The Contractor shall establish from the given survey points and benchmarks all the control points necessary to construct the individual project elements. S(he) shall provide the Engineer adequate control in close proximity to each individual element to allow adequate checking of construction operations. This includes, but is not limited to, line and grade stakes, line and grade nails in form work, and/or filed or etched marks in substantially completed construction work.

   It is the Contractor's responsibility to tie in baseline control points in order to preserve them during construction operations.

b. The Contractor shall be responsible for locating and marking the limits of the project prior to the installation of silt fence.

d. All work shall be in accordance with normally accepted self-checking surveying practices. Field notes shall be kept in standard survey field notebooks and those books shall become the property of the Engineer at the completion of the project. All notes shall be neat, orderly and in accepted form.

Basis of Payment

This work will be paid for at the contract LUMP SUM price for CONSTRUCTION LAYOUT, which shall be payment in full for all labor, materials, transportation, and incidentals necessary to furnish, install, maintain, replace, and relocate all control and stationing points for the duration of the project.

STRUCTURES TO BE ADJUSTED

Description. This work shall consist of adjusting structures as noted below. All structures shall be adjusted to finished grade. This pay item shall be for adjusting all structures as noted on the plans and per the Engineer in the field. All sanitary manholes to be adjusted shall receive a new external chimney seal and flexible rubber boot. This pay item shall be for adjusting all structures not within the pavement (including curbline structures), excluding valve vaults. Structures located in the parkway will not require Class PP-1 concrete. This work shall also include adjusting utility valve boxes to match the proposed finished grade as directed by the Engineer, in accordance with Section 565 of the SSRBC. “Valve box” shall be understood to mean water main valve box, fire hydrant auxiliary valve box, or gas valve box.

Top sections, extensions and/or caps compatible with the existing box, may be required to adjust the box to the final grade and will be included in the cost of this item. Each structure adjustment shall be limited to two adjustment rings. The final ring and rings under 2” on all drainage adjustments shall be rubber. The CONTRACTOR shall place a continuous strip 3/8” thick of polyurethane sealer/adhesive between the PCC structure or PCC ring and the bottom of the rubber ring. The CONTRACTOR shall also place a continuous strip 3/8” thick of polyurethane sealer/adhesive between the top of the rubber ring and the bottom of the frame.

Prior to applying external seal, Contractor shall spray Silaprene Web Adhesive along the joint and unroll sealant to the sprayed area, which shall be included in the cost of STRUCTURES TO BE ADJUSTED.

This work shall also include a new frame and lid/grate with the appropriate type as noted in the plans and/or as directed by the Engineer in the field.

Method of Measurement and Basis of Payment. This work shall be paid for at the contract unit price per EACH for STRUCTURES TO BE ADJUSTED in accordance with the details, which shall include all labor, material, and equipment necessary to complete the above work as specified herein.

STRUCTURES TO BE ADJUSTED, SPECIAL

Description. This work shall consist of adjusting manholes, valve vaults, or water valve boxes in the pavement with their existing frame and grate or with a new frame and grate. This work shall be in accordance with Section 602 of the Standard Specifications and as specified herein. As part of the unit price for this work, each structure to be adjusted shall also be cleaned.

Stage 1 (Before pavement milling)

A) Remove a minimum of 12" of the pavement from around the structure.
B) Remove the existing frame and lid from the structure.
C) Cover the structure opening with a 36" diameter metal plate.
D) Backfill with crushed stone and a minimum 1.5" thick HMA Surface mix approved by the Engineer.

Stage 2 (After HMA Binder placement)

A) Sawcut (4' x 4'), remove Binder and crushed stone.
B) Install the frame and lid; adjust the frame to its final surface elevation.
C) The surrounding space shall be filled with Class PP-1 concrete to the elevation of the surface of the existing Base Course or the Binder Course.

The Contractor shall be required to keep a record of the locations of the buried structures according to the station and distance left or right of the centerline of pavement. Upon completion of the work, the Contractor shall deliver the record to the Engineer.

The Contractor shall notify the Engineer of any broken frames and lids. Existing broken frames and lids shall be stockpiled and delivered by the Contractor to Public Works.

All final adjustment of frame shall be made using precast reinforced adjustment rings with the top ring being rubber (and any ring under 2"). Precast concrete adjustment rings shall comply with ASTM C-39. All concrete rings shall be sealed using hydraulic cement. The hydraulic cement shall also be used in the adjustment of the structures and to seal the outside of the adjustment rings. All final adjustment of the frame shall be made using hydraulic cement within the concrete rings. The top rubber ring shall be sealed to the concrete ring below and the frame above using an approved polyurethane sealer/adhesive.

This work shall also include a new frame and lid/grate with the appropriate type as noted in the plans and/or as directed by the Engineer in the field.

Method of Measurement and Basis of Payment. This work will be measured and paid for at the contract unit price per EACH for STRUCTURES TO BE ADJUSTED, SPECIAL. The word STRUCTURE shall be understood to mean catch basin, manhole, or valve vault as the case may be.

DRAINAGE STRUCTURE TO BE REMOVED

Description. These items of work shall be performed as directed by the Engineer in accordance with Section 605 of the Standard Specifications. The word STRUCTURE shall be understood to mean catch basin, manhole, flared end, and inlet inclusive. The structure shall be removed to its full depth. If no structure is to be installed in the resulting hole, it must be filled to grade with compacted CA-7 or CA-11 trench backfill when within 4' of any paved area as part of this item.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per EACH for DRAINAGE STRUCTURE TO BE REMOVED which shall include all equipment, materials and labor to perform the described work and trench backfill if required.

FENCE REMOVAL AND SALVAGE

Description. This work consists of carefully removing existing fences (of all materials) within limits of the existing R.O.W. and/or School District property and where directed by the Engineer. Fences shall be carefully disassembled, and the materials neatly stacked on the fence owner's property (whether it be the Village's or School District's property). The Contractor shall exercise care so as not to damage existing fence. Existing posts shall be pulled, and any remaining hole backfilled with earth. Where posts have been set in concrete, the existing concrete shall be properly disposed of off-site. Posts which were not set in concrete shall be stacked in the Village Right-of-way with the other fencing materials.

The CONTRACTOR shall video the existing fence prior to beginning work. A copy of the video shall be provided to the Village and any necessary property owners. Also, the owner(s) shall sign off on the work as completed and accepted. Any damaged material or fence that cannot be salvaged be replaced with new, like material at no cost to the owner(s) or Village.

It shall be the Contractor's responsibility to verify the size and type of fences indicated in the plans to be removed. Any new posts or concrete footings required to properly construct this item shall be included in the cost of this work.

Any damaged fence material shall be replaced in-kind at no additional cost to the contract.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per LINEAL FOOT for FENCE REMOVAL AND SALVAGE, which price shall include all labor, materials and equipment to complete the work as specified herein.

HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3”

Description. This item of work shall comply with the applicable portions of Sections 406 and 440 of the Standard Specifications except as follows:

This work shall occur at locations shown on the plans and as specified by the ENGINEER and shall consist of grading and compacting the proposed 6” Aggregate Base Course, Type B, using extra aggregate fill as needed (no pavement grindings allowed), and paving with three inches (3") of HMA Surface Course, Mix “D”, N50. The Surface shall be installed in two lifts with each lift not less than 1.5”. This item shall occur within seven days of the stripping of the concrete curb or sidewalk forms.

Where the asphalt driveway is an overlay of a concrete driveway, no extra compensation will be given for removal of the concrete base or placement of CA-6 aggregate to bring up to proper elevation 3" below proposed surface.

Sawcutting is the only permitted method for cutting butt joints in existing or new pavement. All butt joints shall be cut vertically, straight, and shall be free of debris. Jack hammering of butt joints is not permitted.

Where new driveway will be wider than existing driveway, CONTRACTOR shall excavate existing topsoil to provide 4” of compacted CA-6 prior to placing Driveway Pavement. Payment for this work shall be included in the unit price for this pay item.

This item of work shall comply with the applicable portions of Sections 406 and 440 of the Standard Specifications except as follows:

Prior to placing the driveway pavement, the CONTRACTOR will remove unsuitable sub-grade material and place any additional compacted CA-6 material, conforming to grade 8 or grade 9, to bring the sub-grade to proper elevation. The bituminous driveway pavement, of the specified thickness, shall be N50, Mix “D”, meeting the requirements in Section 406 of the Standard Specifications.

This item shall also be used to repair any driveway or parking lot damaged, adjacent to curb or sidewalk replacement.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per SQUARE YARD for HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3” of the thickness specified, which price shall be payment in full for constructing this item as specified herein, including any additional excavation, CA-6, and all saw cutting, as well as all labor, material, and equipment necessary to complete this work as specified herein. The payment area shall be the final installed width of only the driveway area where work was performed.

TEMPORARY CONSTRUCTION FENCE, 6'

Description. This work shall consist of providing, installing and maintaining temporary chain link construction fencing (and gates, as needed) as shown on the Drawings. This work shall be performed in accordance with the applicable portions of Section 663 of the Standard Specifications, the details in the plans and as herein specified. Maintain fencing during construction operations. Chain link gates will not be measured for payment but shall be included in the price for TEMPORARY CONSTRUCTION FENCE of the height specified. The work will be measured in lineal feet in place.

If gates are required by the Contractor due to means and methods and proper operation, they shall be provided at no additional cost.

Method of Measurement and Basis of Payment. This work shall be measured and paid for at the contract unit price per LINEAL FOOT for TEMPORARY CONSTRUCTION FENCE of the height specified.

STORM SEWERS, WATER MAIN QUALITY PIPE

Description. This work shall consist of removing and constructing storm sewer of the specified diameter adjacent to or crossing water main, at the locations shown on the plans, meeting the material and installation requirements of the latest edition of the "Standard Specifications for Water and Sewer Main Construction in Illinois", and the applicable portions of Section 550 of the Standard Specifications.

Pipe materials shall meet the requirements of Section 40 and 41-2.01 of the "Standard Specifications for Water and Sewer Main Construction in Illinois". Ductile-Iron pipe shall meet the minimum requirements for Thickness Class 52. PVC pipe shall be D2241 or C900 unless otherwise stated by the ENGINEER in the field.

Rubber couplings will be required to join pipes of dissimilar materials and when a bell and spigot joint cannot be constructed.

Method of Measurement and Basis of Payment. This work will be paid for in accordance with Article 550.09 of the Standard Specifications, except the pay item shall be STORM SEWERS, WATER MAIN QUALITY PIPE, of the type, material, and diameter specified, and shall be paid for at the contract unit price per FOOT, and shall include all materials, labor and equipment.

STABILIZED CONSTRUCTION ENTRANCE

Description. This work shall consist of furnishing, installation, maintenance and removal of stabilized pad of aggregate underlain with filter fabric as shown on the plans or directed by the Engineer.

Materials. Materials shall conform to the following:

Aggregate size. IDOT Coarse Aggregate Graduation: CA-1, CA-2 CA-3, or CA-4.

Filter Fabric shall consist of synthetic polymers composed of at least 85 percent by weight polypropylene, polyesters, polyamides, polyethylene, polyolefins, or polyvinylidene-chlorides. The geotextile shall be free of any chemical treatment or coating that significantly reduces its porosity. Fibers shall contain stabilizers and/or inhibitors to enhance resistance to ultraviolet lights.

A wash rack is required as shown in the plan details. A pressure washer shall be kept on-site at all times to keep tires cleaned as needed.

Construction Requirements. The course aggregate shall be a thickness of 6 inches or more. The stone entrance should not be filled until the area has been inspected and approved by the Engineer.

The rock shall be dumped and spread into place in approximately horizontal layers not more than 3 feet in thickness. It shall be placed in a manner to produce a reasonable homogeneous stable fill that contains no segregated pockets or larger or small fragments or large unfilled space caused by bridging of larger fragments. No compaction will be required beyond that resulting from the placing and spreading operations.

The minimum width and length shall be 14 and 70 feet, respectively, per the Engineer.

All surface water flowing or diverted toward the construction entrance shall be piped across the entrance. Any pipe used for this will be considered incidental to the STABILIZED CONSTRUCTION ENTRANCE.

The entrance shall remain in place and be maintained until the disturbed area is stabilized. Any sediment spilled onto public right-of-ways must be removed immediately.

Measurement and Payment. The work shall be paid for at the contract unit price per SQUARE YARD for STABILIZED CONSTRUCTION ENTRANCE, which price shall be payment in full for all material, labor and any other items required to complete the work.

AS-BUILT DRAWINGS

Description. At the completion and acceptance of the work, the CONTRACTOR shall perform a survey of the project.

a) As-Built plans shall be prepared and stamped by a Licensed Professional Land Surveyor or Licensed Professional Engineer in the State of Illinois and shall include the surveyor's or engineer's professional seal and signature accordingly.
b) As-Built Plans shall be prepared using the latest approved Engineering Plans as a background or base-file. Any deviation from the approved site geometry and utility locations shall clearly be shown on the As-Built Plans. All elevations shall be NAVD 88 , in accordance with the benchmark information on the approved plans.
c) As-Built Plans shall strike-out all design values on the engineering plans. Next to the crossed-out value, the surveyed value should be displayed in bold. This includes, but is not limited to, the following information listed below:
d) As-Built Plans shall be provided in both .PDF and .DGN/.DWG digital formats to the Village and the Engineer upon completion.

a) Basin spot grades and slopes

- As-Built Plans shall include a drawing of the Detention Basin, with the necessary contour lines and drainage improvements, including all storm sewer, underdrains, and structures.

b) Sanitary and Storm Sewers

- Pipe sizes, slopes, lengths between manhole centers, & material type
- Manhole, Catch Basin, and Inlet rim and invert elevations
- Location of services stubs (distance from nearest manhole)

c) Water Main / Sanitary Sewer

- Pipe size, location, and material type
- Casing pipe locations and lengths

d) Only the updated plan sheets should be included in the As-Built Plan Set. These sheets typically include, but are not limited to:

1. Title Sheet and/or Index (omitted sheets are crossed out)
2. Basin Grading/Drainage Plan
3. Utility Plan
4. Utility Profiles
5. Roadway Plan and Profile

Measurement and Basis for Payment. This item shall be paid for at the contract LUMP SUM price for AS-BUILT DRAWINGS.

ITEMS AS DIRECTED BY THE ENGINEER

Description. This work shall consist of various items of Work which may be required to be done by the Contractor, the scope of which cannot be determined at the time of submittal of the Proposal. This item provides a line item against which payment may be made. Items such as (but not limited to) emergency sewer repairs, fence removal and replacement, and construction matting, as required per the Engineer's direction in the field, will be paid for under this item.

GENERAL REQUIREMENTS

Work shall be done under this item as directed by the Engineer. And items to be removed and replaced in-kind (such as fences) shall match existing as approved by the Engineer.

Any sewer replacement shall be performed in accordance with the applicable portions of Section 563 of the IDOT Standard Specifications, Sections 30 and 31 of the Standard Specifications for Water and Sewer Main Construction in Illinois, and as specified herein. New sewer and fittings shall be PVC SDR26 conforming to ASTM D 2241, and shall have flexible elastomeric seal joints (ASTM D3139). All fittings must be from the same manufacturer. The new sewer shall be laid at the same alignment as the existing sewer and shall be connected to the existing sewer with rubber, non-shear Mission couplings with stainless steel bands. The sewer shall rest on firm bedding prior to backfilling operations to prevent shifting or settlement of the pipe. As the contractor exposes existing service sewers during excavation for the spot repair, he shall determine which services are active and only connect those active services to the new sewer main.

This item shall include all backfill, couplings and any service fittings required for the spot repair. Any temporary plugs or bypass pumping required to make the spot repair shall be included in the cost of this item. Cutting and removing the existing sewer shall be included in the cost of this item. Removal and disposal of root balls or other debris encountered during sewer removal shall be included in the cost of this item.

This item shall include all work to complete any repairs or replacements, including landscape restoration and/or pavement patching.

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

Basis of Payment. Payment for this work will be made per DOLLAR at the direction of the engineer.

Payment for this work will be made as specified in the Standard Specifications Article 109.04 using a force account basis. Payment for this work will not exceed the costs incurred by the Contractor and approved by the Engineer.

AGLIME INFIELD MIX

Description. This work shall consist of furnishing and placing aglime infield mixture for each ball field within the basin.

Infield mix shall be Aglime, free of stones and gravel with gradation requirements of % passing screens:

3/8”	100%
No. 4	95-100%
No. 40	35-50%
No. 80	25-35%
No. 200	15-25%

Submit samples of the Infield Mix for Owners approval.

Placing Infield Mix. Rake out the subgrade to achieve a fine uniform surface without any clods greater than ½” in diameter. Make sure that the aggregate surrounding the under-drain system is exposed. Once a mix has been approved place the mix within the areas of the infield. Preserve the markers for 1st and 3rd bases during placing. Bring the infield mix to the grades shown on the plans and moisten to permit easier grading and movement without severe rutting. Do not use compaction devices on the surface. One rolling of the entire surface shall be made.

Owner approval of finished grade of the mixture is required.

PITCHERS MOUND CLAY BLOCKS.
For the SW Ballfield only.
Pitchers mound clay blocks produced for pitcher mound construction. They are to be 100% virgin clay with the dimensions of 2 ½” x 4” x 8”.

Measurement of Measurement and Basis of Payment. AGLIME INFIELD MIX will be measured in place and paid for at the contract unit price per TON, in place and complete, for AGLIME INFIELD MIX, which price shall constitute all labor, materials and equipment necessary to complete the work as specified.

Measurement of Measurement and Basis of Payment. CLAY BRICKS FOR PITCHERS MOUND will be measured in place and paid for at the contract unit price per SQUARE FOOT, in place and complete, for CLAY BRICKS FOR PITCHERS MOUND, which price shall constitute all labor, materials and equipment necessary to complete the work as specified.

VINYL COATED BACKSTOP AND CHAINLINK FENCE

Description. This specification includes the furnishing of all labor, tools, material, equipment, and services necessary for, and reasonably incidental to, the construction of ballfield backstop, wing and dugout fencing, as indicated on drawings or specified herein. Provide entire PVC coated system, black.

Shop Drawings. Submit Shop Drawings for approval, prior to manufacturing, describing and detailing typical line post, terminal post, gate, fabric, materials, hardware assemblies, and all proposed fence/gate alignment sections.

Materials.
Chain link Fence Fabric: Chain link fabric shall be constructed of woven 6-guage (for backstops and wing fence fabric up to 10'-0"), 9-guage (for backstop fabric above 10'-0", for dugout fence fabric or for perimeter fencing. All fabric shall be W & M steel wire as specified on plans and details, in a continuous 2-inch mesh (for fencing or backstops). Mesh shall be as specified on plans and details, with knuckled top and bottom selvage. Fabric shall not be hot-dipped galvanized after weaving, per ASTM A-392. The weight of the coating shall be 1.2oz. per square foot of actual surface. Coating shall be smooth, of uniform thickness, and free from dross, uncoated spots and adhered particles of foreign material. Height of fabric shall be as shown on the drawings. The lower edge of fabric shall be no greater than 1-1/2" above concrete mow strip or infield finished grade as specified on plans and details.

All line posts, terminal post, top rails, bottom rails and fittings shall be PVC coated galvanized zinc steel, ASTM A120 or A123, with not less than 1.8 oz. zinc per square foot of surface area and 12 mils PVC thickness. All fittings and accessories shall be PVC coated galvanized, ASTM A153.

Line Posts shall be one of the following:
- 2-3/8" O.D. Schedule 40, ASTM A-120, 3.65 pound/LF.
- S-40-ASTM A-569, 3.12 pounds/LF.
- Standard C Section ASTM F-669, 2.28 pounds/LF.
- H Section ASTM F-669, 3.26 pounds/LF.

End, corner and pull posts shall be one of the following:
- 4" O.D. Schedule 40, 5.79 pounds/LF. For backstop and 12' high fence.
- 2⅞" for 4', 6', 8' high fence.
- SS-40, 4.64 pounds/LF.
- Roll Formed Post, 4.85 pounds/LF.

All posts shall have PVC Coating after galvanizing.

Top and Bottom & Middle Rails shall be: Longest lengths available, with expansion type couplings, approximately 6" long, for each joint. Provide with means for attaching securely to each post other than line posts. Provide and install posts as required. Shall be one of the following:

- 1-5/8” O.D. Schedule 40, 2.27 pounds/LF.
- S-40, 1.84 pounds/LF.
- Roll Formed Rail, 1.37 pounds/LF with PVC Coating after galvanizing.

Hog rings, nuts and bolts: These components shall be coated with .007 mils film thickness of Phenolic baked phosphate enamel capable of 250 hours salt spray test.

Post brace assembly: Adjustable brace at end and gate posts and at both sides of corner and pull posts, with horizontal brace located at mid-height of fabric. Use same material as top rail for brace, and truss to line posts with 0.0375" diameter rod and adjustable tightened.

Caps bands and Connectors: All caps, bands, and connectors used in construction of PVC coated chainlink fence shall be galvanized pressed steel, malleable or cast steel, or aluminum alloy. PVC coating shall be bonded and applied as stated in 2.03. Provide a weathertight closure cap designed to receive top rail.

All chain link posts shall be set in concrete foundations in the ground. Concrete shall conform to the Standard ASTM C-94, 3000 PSI @ 28 days. The diameter of the foundation to be a minimum of twelve (12”) inches except for terminal posts on which the minimum diameter shall be three times the outside diameter of the post. All foundations shall slope away from the post to assure proper drainage or as detailed in the drawings.

All posts shall be of sufficient length to provide forty-two (42) inch setting in concrete footings.

Excavation: Drill or hand excavate (using post hole digger) holes for posts to diameters and spacing indicated, in firm, undisturbed or compacted soil. All excavated material is to be removed from the post location and dumped in an Owner approved location on site project site or removed from site and disposed of properly.

Excavate holes for each post to minimum diameter recommended by fence manufacturer, but not less than 4 times largest cross-section of post. Excavate hole depths approximately 3" lower than post bottom; with bottom of posts set not less than 36" below finish grade surface.

Setting Posts: Center and align posts in holes 3" above bottom of excavation.

Place concrete around posts and vibrate or tamp for consolidation. Check each post for vertical and top alignment and hold in position during placement and finishing operations. Extend concrete footings 2" above grade and trowel to a crown to shed water. Allow

concrete to attain at least 75% of its minimum 28-day compressive strength, but in no case sooner than 7 days after placement, before rails, tension wires, or fabric is installed. Do not stretch and tension fabric and wires, and do not hang gates until the concrete has attained its full design strength. Restore grade around posts once setting is complete.
Top Rails: Run rail continuously through post caps. Provide expansion couplings as recommended by fencing manufacturer.

Spacing: Maximum spacing between fence posts shall be 8'-0".

Fabric: Pull fabric taut and tie to posts and rails. Install fabric on interior or playing side of fences and anchor to framework so that the fabric remains in tension after pulling force is released. Lower edge of fabric shall be set level with finished grades (1-½" above grade typ.) except as specified on plans and details.

Tension Bars: Fabric shall be attached to the terminal posts by means of single piece tension bars. Thread through fabric and secure to posts with metal bands spaced not over 12 inches O.C. (typ.).

Welding: All field welds shall be fully filled, ground flush and smooth, and cold galvanized by brushing on "Galvicon", or approved paint for vinyl fencing. Use silver paint (two coats required).

Cleanup. The job site shall be cleared of all excess material (concrete, wire, rails, pipe, etc.). All areas impacted by construction shall be leveled with infield on field side or paving or topsoil on outside graded flush with surrounding grade and free of all debris and rocks and restored to as good as or better than original condition, as approved by the Engineer.

Method of Measurement and Basis of Payment. Backstops shall be measured for payment per EACH for VINYL COATED BACKSTOP of the height and type specified, which price shall include all labor, material, and equipment necessary for fabrication, attachment, and installation and all incidental work herein specified.

Method of Measurement and Basis of Payment. The (Sideline) Chainlink Fence shall be measured for payment per LINEAL FOOT for VINYL COATED CHAINLINK FENCE of the height specified, which price shall include all labor, material, and equipment necessary for fabrication, attachment, and installation and all incidental work herein specified.

FOOTBALL GOAL POSTS, BLEACHERS, AND BENCHES

The work covered by this section consists of furnishing all labor, materials, tools, equipment, and incidentals necessary to supply and install the various site furnishings that occur on the project.

Use all means necessary to protect site furnishings and other materials before, during, and after installation and to protect the installed work and materials of all other trades.
Submit product information and manufacturer's installation recommendations for all equipment.

FOOTBALL GOAL

Gooseneck Football Goal, 5-9/16" O.D., with 6' offset, 23'-4" wide High School Size (pair)
Model # 2222-20P
Color Powder Coated White
Manufactured by: PW Athletic MFG. Co. (or approved equal)

BLEACHERS

4 row, 12' long x 7' deep low rise aluminum bleacher with 10" wide foot boards and 12" wide seat planks.
Model # BS-L0412
Color Aluminum
Manufactured by: Belson Outdoors (or approved equal)

PLAYERS BENCHES

Team Series Aluminum Players Benches, 15' long, in-ground mount.
Model # ABS15WB-I
Color Aluminum
Manufactured by: Belson Outdoors (or approved equal)

Install all elements in location as indicated on the drawing.

Owner reserves the right to make minor field adjustments to best fit the exact field conditions.

Method of Measurement and Basis of Payment. This work shall be paid for at the contract unit price per EACH for:

Football Goal – 1 pair
Bleachers – 3
Players Benches – 11

Unit prices shall include all labor, material, and equipment necessary for excavation, foundation, and installation of the site furnishings and all incidental work herein specified.

STRUCTURAL FILL

Description. This work shall consist of the furnishing and placement of rock fill where unstable and/or unsuitable materials have been removed below the plan bedding grade of proposed cast-in-place stairs and foundations. This work shall be done as shown on the plans and as directed by the Engineer.

Materials. Materials shall meet the requirements of Section 1004 of the Standard Specifications.

The gradation of structural fill shall be coarse aggregate gradation CA1 or CA7.

Note 1: Geotextile fabric having a minimum weight of 6 oz/sq yd (200 g/sq m) and meeting the requirements of Article 1080.02 of the Standard Specifications may be necessary dependent upon subgrade soil conditions. The Engineer shall make the determination if Geotextile utilization is necessary.

Note 2: If a capping material is deemed necessary by the Engineer, Geotextile fabric having a minimum weight of 6 oz/sq yd (200 g/sq m) and meeting the requirements of Article 1080.02 of the Standard Specification shall be used as a separation layer.

Construction Requirements. Unstable and unsuitable soil shall be excavated according to Article 502.12 of the Standard Specifications. Structural fill shall be placed following the excavation of the unstable and/or unsuitable material. Structural fill shall be spread in maximum 12-inch layers loose thickness. Each lift shall be compacted to a dense and stable state using vibratory compaction equipment or by tamping with a backhoe bucket.

The fabric, if required, shall be installed according to the applicable portions of Section 210 of the Standard Specifications.

Method of Measurement. Structural Fill will be measured for payment in cubic yards.

Geotextile fabric will be measured for payment according to Article 210.05 of the Standard Specifications.

Basis of Payment. Structural Fill will be paid for at the contract unit price per CUBIC YARD for STRUCTURAL FILL.

Geotextile fabric will be paid for according to Article 210.06 of the Standard Specifications. When the contract does not contain a pay item and this item is required, it will be paid for according to Article 109.04 of the standard Specification.

LOCATING UNDERGROUND UTILITY

Description. This item shall consist of locating underground utilities that potentially conflict with proposed improvements.

Requirements. It shall be the Contractor's responsibility to locate underground utilities that are marked on the plans. This work will not be paid for separately but shall be included in the cost of the item being constructed. Exceptions are as follows:

- Utilities Marked on the Plans: If the item to be constructed is grade critical, and cannot be adjusted either vertically or horizontally (i.e. storm sewer, sanitary sewer, private utilities), and there is a potential for conflict with the utility. Locating potentially conflicting utilities will be paid under this item.

- Utilities Not Marked on Plans: If a utility is not shown on the plans (or not shown in accordance with Article 104.03 of the Standard Specifications). Locating potentially conflicting utilities will be paid under this item. As per Article 107.40(a)(2) of the Standard Specifications, "Service connections shall not be considered to be utilities in unanticipated locations".

The Contractor shall be required to hand dig to locate all existing services, whether it be private utility services for gas, electric, cable, etc., or for water/sewer.

Construction. The method of excavation to locate utilities will be at the contractor's discretion, as approved by the Engineer. If the contractor elects to use hydro excavation for the removal of excavated material, he/she shall be responsible for all water usage and disposing of the excavated material in accordance with Article 202.03 of the Standard Specifications. Regardless of the method of excavation, the Contractor shall be responsible for replacing excavated soil in the resulting hole with sand, limestone screenings or other material as approved by the Engineer.

Any utilities damaged during excavation operations shall be repaired or replaced at the contractor's expense; no additional compensation shall be allowed.

Removal and replacement/restoration of any pavement, sidewalk, parkway, driveway, etc. necessary to complete the exploration excavation shall be paid for separately under pay items that are in the contract. Sidewalk removal and replacement shall include the complete sidewalk panel.

Method of Measurement. This work will be measured per each excavation, regardless of the soil composition, to locate existing utilities. For this pay item, excavation depth and width will be limited to 72 inches and 5 feet, respectively. The Contractor will not receive compensation if more than one utility is located within the excavation (as defined above). If the utility is deeper than 72 inches, the initial locate shall be measured in accordance with this special provision. Additional excavation (beyond 72 inches in depth) shall be measured and paid for in accordance with Article 109.04 of the Standard Specifications.

Basis of Payment. This work shall be paid for at the contract unit price per EACH for LOCATING UNDERGROUND UTILITY. All aggregate backfill (Trench Backfill as necessary) required to complete this work shall be considered incidental to this pay item.

NYOPLAST DRAIN BASIN, 24”

Description. This work shall consist of furnishing and installing Nyoplast Drain Basins and grates, of the diameter specified, according to Section 602 of the “Standard Specifications”, per the plan details, and per the manufacturer’s recommendations. The Contractor shall submit a shop drawing for approval by the Engineer prior to ordering materials.

Structures and fittings shall be by ADS or approved equal, and shall include watertight joints and watertight fittings and meet loading requirements per ADS for the depths shown in the plans. All necessary frames, grates, and/or fittings shall be included in the cost of this item.

These grates shall be ADA compliant / acceptable for use in athletic fields per the manufacturer and approved by the Engineer with shop drawings prior to ordering materials; acceptable grates include, but are not limited to, the 24” Drop-In or 24” Pedestrian Grates as included in the plan details.

Method of Measurement and Basis of Payment. This work shall be paid for at the contract unit price per EACH for NYOPLAST DRAIN BASIN of the diameter specified, as well as the grate, and all work required to properly construct this item in its entirety per the plan details and manufacturers recommendations.

PCC DRIVEWAY PAVEMENT

Description. This work shall consist of the construction of new PCC driveway pavement at locations shown on the plans, or as directed by the ENGINEER, in accordance with Sections 301, 351 and 423 of the STANDARD SPECIFICATIONS, the details shown on the plans as directed by the ENGINEER.

The CONTRACTOR shall place embankment or excavate in accordance with Sections 202 and 205 of the STANDARD SPECIFICATIONS in order to achieve the finished grades shown on the plans.

The proposed driveway pavement will consist of:
6” Portland Cement Concrete (High Early Strength) and 4” of Aggregate Base Course, Type B (CA-6).

The PCC Vehicle ramp driveway pavement will consist of:
8” Portland Cement Concrete (High Early Strength) and 6” of Aggregate Base Course, Type B (CA-6).

All excavation and/or embankment to achieve final grade; Aggregate Base Course; and PCC Driveway pavement will not be paid for separately but shall be considered part of this item.

Method of Measurement and Basis of Payment. This work will be measured and paid for at the contract unit price per SQUARE YARD for PCC DRIVEWAY PAVEMENT, which price shall be payment in full for constructing this item as specified (all high early strength concrete), including the aggregate base course and all materials, labor and equipment. The payment area shall be the final installed width of only the driveway area where work was performed.

PRECONSTRUCTION VIDEO TAPING

Description. This work consists of providing high quality color video and audio recording of construction areas prior to the start of construction, including coverage of all areas that will be affected by the construction or installation of pipelines such as streets, driveways, sidewalks, fences, trees or plantings, or other items that may be damaged or have to be removed and replaced as part of the construction.

The Contractor shall provide high energy, high quality, color videos on USB drive format. Each video shall begin with current date, project name, and Owner, followed by descriptions of the general location, street names, addresses, and data that describes location and subject of viewing. The video shall be taped at a rate of speed not exceeding 48 feet per minute and panning rates and zoom-in or zoom-out rates shall be controlled to provide clarity of object during playback. The finished product shall be provided with bright, sharp, clear pictures and accurate colors free from distortion, tearing, rolls, or other forms of picture imperfection. The audio shall have proper volume and clarity. All recording shall be done at good times of visibility, and when no more than 10 percent of snow or fallen leaf cover is present. The areas shall not be recorded earlier than 6 months prior to the start of construction.

Method of Measurement and Basis of Payment. This work shall be incidental to the cost of the contract.

SANITARY MANHOLE

Description. This work shall consist of furnishing and installing sanitary sewer manholes of the precast reinforced concrete type and shall comply with ASTM C-478 and be provided with monolithically precast base, unless the requirements of the installation or the plans show otherwise. Each manhole shall be provided complete in accordance with the plans. All sanitary manholes shall have precast benches. All work shall be completed in accordance with the MWRD Standards and Construction Details for sanitary manholes.

Description.

1. Top: Precast concrete, of cone, top type, as indicated.

2. Base: Precast concrete, with compound base riser section and base slab, as indicated; except that separate base slab shall be provided as required for the application.

   Steps: Ductile-iron Neenah 1981-1 integrally cast into manhole sidewalls.

   Pipe Connectors: Resilient, complying with ASTM C 923.

3. Vacuum Testing of Manholes: Manholes shall be tested before the ring and cover and grade adjustment rings are installed, and after backfill and compaction is complete. Tests shall be performed in accordance with ASTM C1244 and these Specifications.

   a. Preparation for tests:
      1. All lift holes, joints and other imperfections shall be filled with an approved non-shrink grout, to provide a smooth finish appearance.
      2. All pipes entering the manhole shall be temporarily plugged, taking care to securely brace the pipes and plugs to prevent them from being drawn into the manholes.
   b. Test procedure:
      1. The test head shall be placed at the top of the manhole in accordance with the manufacturer's recommendation.
      2. A vacuum of 10-inches mercury shall be drawn in the manhole, the valve on the vacuum line of the test head closed, and the vacuum pump shut off. The time shall be measured for the vacuum to drop to 9-inches mercury.
      3. The manhole shall pass if the time for the vacuum reading to drop from 10-inches mercury to 9-inches mercury meets or exceeds the values indicated in the following table:

Minimum Test Times for 48" Manhole	
Depth (ft)	Time (s)
8	20
10	25
12	30
14	35
16	40
18	45
20	50
22	55

a. If the manhole fails any test, necessary repairs shall be made by an approved method and the manhole shall be retested until a satisfactory test is obtained.

The outside of the manhole shall be coated with a waterproofing membrane and internal chimney seals shall be provided in accordance with ASTM C-923.

Materials.

Manhole Casting. All closed seal tight lids shall have the words "VILLAGE OF OAK LAWN" and "SANITARY" cast into them, and all frames and lids shall be East Jordan 1020A/1020AGS (with EPIC pickhole). Neenah R-1713 is acceptable as approved by the Engineer, but must have a similar pickhole to the EJ EPIC.

External Chimney Seal. Shall conform to ASTM C923 and shall be Cretex Classic.

Adjustment Rings. Shall be precast concrete. Adjustment rings of uniform thickness shall be at least two inches thick. The replacement precast grade adjustment shall provide a structural capacity equal to or greater than the existing specified manhole frame and shall not affect the opening size or surface appearance.

Bitumastic Gasket Material shall meet or exceed Federal Specification SS-S-210A. Material shall be EZ-STIK.

Submittals. All materials sheets are to be submitted and approved before installation can proceed.

Method of Measurement and Basis of Payment. This work shall be considered included in the unit price per EACH for SANITARY MANHOLE of the type (including drop manholes), diameter, and frame & lid specified, and shall include all labor and materials for manhole as described in the above provisions. Trench backfill and final adjustment of frame and grate shall be considered incidental to this work.

SANITARY SEWER

Description. This work consists of removing existing sanitary sewers as applicable and furnishing and constructing polyvinyl chloride (PVC) or Ductile Iron sanitary sewers in accordance with the SSWS. Adjusting and constructing new sanitary sewer services are also covered under this pay item. Sanitary services will be constructed using SDR26 PVC pipe installed in a casing pipe when underneath proposed storm sewer. A non-shear rubber coupling shall be used to mate PVC to clay pipe. All work shall be completed in accordance with the MWRD Standards and Construction Details for sanitary sewers and services.

Materials.
Pipe and Fittings. All PVC pipe and fittings shall have a minimum pipe stiffness that equals or exceeds 115 lbs/in-in and the Standard Dimension Ratio (SDR) shall be 26 conforming to ASTM D3034. Ductile iron pipe if shown shall be Class 52 watermain quality pipe.

Construction Requirements. Sanitary services in conflict with the proposed improvements shall be adjusted for the conflict. Sanitary services constructed above the storm sewer shall be SDR26 PVC with non-shear rubber couplings to mate to existing pipe. Sanitary services relocated underneath the proposed storm sewer shall be SDR26 PVC with non-shear rubber couplings installed in 8” ductile iron casing pipe (casing paid for separately). If the existing tee on the sanitary main needs to be adjusted up or down to receive the new sanitary service, the sanitary main may need to be removed and replaced to provide new PVC main and a new PVC wye-tee.

In some cases a new segment of sanitary main and services are shown on the plans. Where the new PVC connects to an existing sewer, the connection shall be made with non-shear flexible rubber couplings designed to connect sewers of dissimilar materials. Stainless steel bands shall be used to secure the couplings. The cost of the coupling is incidental to the various sewer pay items. Services shall be connected to the main using Tee-Wye fittings and bends as necessary. New sanitary mains shall be tested for deflection and exfiltration of air in accordance with Section 31-1.11 of the SSWS.

Backfilling shall comply with the “Trench Backfill, Special” Special Provision. All aggregate backfill (Trench Backfill as necessary) required to complete this work shall be considered incidental to adjusting sanitary sewers, but will be measured and paid for when constructing new mainline sanitary sewer. Sanitary flow shall be bypass pumped during construction as part of this item. Hoses must be free of leaks. Contractor shall temporarily connect new pipe to old pipe overnight or when not actively working on sanitary installation to maintain sanitary flow. No additional compensation will be made for this effort.

Note that locations of all reconnections shall be determined in the field by the Engineer.

The ADJUSTING SANITARY SERVICE LINE pay item is meant for the reconnection of existing services to either the existing or proposed sanitary main (as determined by the Engineer in the field). The SANITARY SERVICE LINE, 6” pay item is for all new service pipes to be installed and connected to a new sanitary sewer main.

Method of Measurement. Sanitary sewer pipe shall be measured in place after successful leakage and deflection testing has been completed. Measurement shall be from center to center of manhole structure with an appropriate deduction for the inside diameter of the manhole and the payment amount computed in LINEAR FOOT. The fittings and non-shear rubber couplings and stainless steel bands are not measured for payment.

Basis of Payment. PVC sewers shall be paid for per LINEAR FOOT at the contract unit price for SANITARY SEWER, 8" of the type specified; SANITARY SERVICE LINE, 6"; or ADJUSTING SANITARY SERVICE LINE. All costs associated with the excavating for, furnishing, transporting, placing, and compacting of the bedding and embedment materials, and bypass pumping are considered incidental to this work.

SANITARY SERVICE CLEANOUT

Description. This work shall be done in accordance with the Special Provisions for Section 601 of the Standard Specifications, and these Special Provisions; and shall consist of installing cleanouts for maintenance access one foot inside the ROW behind the sidewalk or at a location determined by the Engineer in the field at the time of construction. Joints of the pipe and fittings shall be solvent welded. The installation of a cleanout shall include all necessary excavation.

Cleanouts will be installed at locations where the existing sanitary service cannot be replaced in the same alignment due to existing tree(s) or existing/proposed utility conflicts. The extent of this work shall be determined in the field by the Engineer; any conditions that generate a bend in the service line of more than 22.5-degrees will require a cleanout, and/or at the discretion of the Engineer.

All sanitary service pipe and connection to the main sewer shall be paid for separately.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per EACH for SANITARY SERVICE CLEANOUT, which price shall include all labor, material, and equipment necessary to construct this work as specified herein.

SANITARY SERVICE CONNECTION

Description. This work shall consist of all work and materials required for making a connection from the existing or proposed sanitary sewer service to an existing or proposed main line sanitary sewer. The existing sanitary services are all assumed to be six (6) inch diameter. The existing pipe will be cut within the public ROW with the approval of the Engineer. A saddle or kor-n-tee fitting shall be utilized to connect the existing/proposed sanitary service to the existing/proposed sewer main. Coring of the mainline sanitary sewer is required at the needed diameter to achieve a proper connection. The coring method shall be approved by the Engineer. Any required trench backfill and bedding material shall be included in the cost of this work. Trench Backfill material shall be per Section 208 of the SSRBC and the TRENCH BACKFILL, SPECIAL specification as included herein.

The CONTRACTOR shall install a new polyvinyl chloride wye fitting and cleanout at the location of the repair to the sewer main and shall remove and replace a sufficient length of existing service pipe to re-establish the service at the property line (which shall be paid for separately as SANITARY SEWER SERVICE LINE, 6”). The replacement service pipe shall be polyvinyl chloride (PVC) conforming to ASTM D-3034 with gasket joints conforming to ASTM-3212 and a Standard Dimension Ration (SDR) of 26. All connections to existing pipes shall be made with non-shear, stainless steel couplings. The couplings shall be equipped with stainless steel bands. Vertical cleanouts with removable caps shall be constructed at the locations indicated on the plans or as directed by the ENGINEER, which shall be included in the cost of this item (as needed). Contractor shall use non-shear rubber couplings to connect new SDR 21 PVC sanitary pipe to existing service pipe if watertight bell and spigot joints cannot be maintained.

A section of pipe shall be removed in order for the tee or wye connection to be installed if the existing sanitary main is not lined. If the sanitary main is lined, the connection shall be made via saddle or kor-n-tee fitting. Break-in connections are not permitted.

Method of Measurement and Basis of Payment. This work will be paid for in accordance with Article 550.09 of the Standard Specifications, except the pay item shall be SANITARY SERVICE CONNECTION, shall be paid for at the contract unit price per EACH, and shall include all materials, labor, couplings/connections, backfill (Trench Backfill as necessary) and bedding, and equipment needed to complete these operations specified herein. **Payment for this item is for the CONNECTION only.**

TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION

Description. This work shall consist of furnishing and installing TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION at the locations shown on the plans and per the ENGINEER in accordance with Section 201 of the Standard Specifications. TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION shall be orange in color, and all limits shall be approved by the ENGINEER. The CONTRACTOR shall submit a material sample of the fencing to the ENGINEER for approval. Fence shall be a minimum of 4 feet high with stakes placed a maximum of 3 feet apart.

The tree protection fencing shown on the plans is not drawn to scale and is meant to be representative. The actual tree protection fencing limits shall be determined in the field by the Engineer.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per LIENAR FOOT for TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION, which price shall include all labor, material, and equipment necessary to complete this work as specified herein.

TIDEFLEX CHECK VALVE

Description. This work consists of furnishing, fabricating, transporting, and installing inline check valves of the size, shape, and design head at the locations shown on the plans and specified herein with all the necessary appurtenances.

This work shall include installation of the inline check valve, including all supports, anchors, attachment hardware and all other items necessary as determined by the Engineer. Installation of the structures piping is listed under a different specification and pay item.

Materials. Provide Series 39 Inline Check Valve or Series CMUF-SL Slip-in CheckMate Ultraflex Inline Valves as manufactured by Tideflex Technologies®, A Division of Red Valve Company or approved equal. All valves shall be manufactured in the U.S.A.

Fabrication. Before fabrication of the component parts of the flat gate is initiated, shop drawings showing the dimensions and details required to locate and install the component assemblies shall be submitted for the Engineer's approval.

Installation. Prior to initiating installation of the flap gate, the Contractor shall provide the Engineer with four copies of a manual giving complete information on installation and maintenance of the inline check valves.

The inline check valves shall be installed according to the manufacturer's recommendations and as directed by the Engineer. The valve shall be installed in a plumb position with the axis of the hinge perpendicular to the centerline of the waterway opening.

The quantity and size of the fasteners shall be recommended by the manufacturer.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per EACH for TIDEFLEX CHECK VALVE of the diameter specified on the plans, which price shall be payment in full for labor, materials, and equipment to perform the work as specified herein.

WATER MAIN LINE STOP

Description. This work shall consist of the placement of a self-contained unit as indicated on the plans for the purpose of installation of a valve and/or other connection with the existing water distribution system without interruption of service. This work shall be performed at the locations shown on the plans and as directed by the ENGINEER.

The line stop unit shall be a self-contained hydraulic (hand pump operated) ram. The line stopping device shall be of such a design, that when hydraulic pressure is applied, the rubber will expand and conform to the inside diameter of the pipe and tuberculation inside the main (if any) will be moved outside of the sealing area. The line stop shall be of the 'Short Stop' variety which will require removing only the top of the pipe during operation. All fittings shall employ an inside diameter thread, screw-type connection. After insertion of the plug, a screw-on cap shall be used and bolted down. The system shall be capable of containing a water pressure of 150 psi. Manufacturer: AVT or equal. Shop drawings for line stop sleeves shall be submitted for approval by the ENGINEER prior to delivery to the job site.

Trench Backfill material shall be per Section 208 of the SSRBC and the TRENCH BACKFILL, SPECIAL specification as included herein.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per EACH for WATER MAIN LINE STOP of the diameter specified, which price shall be payment in full for all excavation, saw cutting, legal disposal off-site of all excess material, backfill (Trench Backfill as necessary), labor, materials and equipment necessary to perform the work as herein specified.

"NO PARKING" NOTIFICATION

Description: The CONTRACTOR shall be responsible for posting temporary "NO PARKING" signage on each project location 48 hours prior to the commencement of sawcutting for the roadway portion of the project. Signage shall remain in place throughout construction operations and removed immediately following the completion of main AND roadway construction operations. The CONTRACTOR shall be responsible for posting temporary "NO PARKING" signage for pavement marking operations as necessary.

Signs shall be posted at regular intervals of no greater than 100' or as directed by the ENGINEER and shall be clearly visible to motorists. Signs shall include the dates of the duration of the parking restrictions. Signage must be maintained by the CONTRACTOR, and any signage that is damaged by weather, vandalism, or other means shall be immediately replaced.

Temporary "NO PARKING" signs shall be obtained from the supplier to the Village of Oak Lawn.

The dimensions of the signs shall be 11" x 14". The signs shall state "NO PARKING" (2 1/8" lettering, 5/8" spacing), "6:00 AM TO 6:00 PM" (3/4" lettering, 1/4" spacing) and "BY ORDER OF THE OAK LAWN POLICE DEPT." (3/4" lettering, 1/4" spacing) in black capital lettering on an orange background, with a blank field between the statements. The blank field will allow for writing in the dates of the duration of the parking restrictions. An example of the required signage (not including the time restriction lettering) is included below:

If the contractor does not post the “NO PARKING” signs 48 hours in advance of the work, then the CONTRACTOR shall pay the Village a sum of $250 per incident not as a penalty but as liquidated damages.

Basis of Payment: “No Parking” signage is paid for in accordance with the specification for TRAFFIC CONTROL PLAN.

RESIDENT NOTIFICATION

Description: The CONTRACTOR shall be responsible for distribution of resident notices to each household and/or business impacted by construction activities. Notification templates have been provided within this section of the contract. If desired, the ENGINEER will provide to the CONTRACTOR the Word Document file for each notice. Notices shall be on the CONTRACTOR'S letterhead and distributed as follows:

GENERAL CONSTRUCTION NOTICE shall be distributed **1 WEEK** prior to commencement of any construction activities.

CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT shall be distributed **24 HOURS** prior to commencement of concrete construction activities.

FRESH OIL SIGNS shall be posted **24 HOURS** prior to application of prime coat.

All notices created by the CONTRACTOR shall be reviewed by the ENGINEER prior to distribution. Should the CONTRACTOR fail to distribute or post notices according to the above schedule or per the request of the Village, the Contractor shall pay to the Village the sum of $250 per residence, per incident, not as a penalty but as liquidated damages.

Basis of Payment: This work shall not be paid for separately, but shall be considered incidental to the contract.

DATE.

CONSTRUCTION NOTICE

STREET NAME

STREET RESURFACING

Dear Resident:

Roadway construction is scheduled to begin on STREET NAME between STREET NAME and STREET NAME during the week of DATE. The scope of construction includes new asphalt pavement (including pavement removal, application of fresh oil, and two layers of asphalt), as well as the following improvements **AS NECESSARY**: storm sewer improvements, curb and gutter removal and replacement, sidewalk repairs, and driveway apron removal and replacement in the public right of way. The duration of the project is anticipated to be 4 weeks (weather permitting) and the typical contractor working hours are from 7:00 a.m. to 5:00 p.m.

SPRINKLER SYSTEMS

If you have an automatic lawn sprinkler/irrigation system, please notify the Department of Public Works and **mark with paint all sprinkler heads along the curb, sidewalk, and driveway apron**.

Please read the following important information regarding access and parking during construction:

GENERAL ACCESS TO YOUR STREET DURING CONSTRUCTION:

Your street will generally be open to traffic during construction to allow for access to your home; however, if you need your vehicle for frequent trips during the day, we recommend that you move your vehicle prior to 6:00 AM and park on an adjacent side street with available on-street parking. On-street parking on your street will be restricted from 6:00 AM to 6:00 PM, Monday through Friday. Access to your street will be restored at the end of each work day.

"NO PARKING" SIGNS WILL BE POSTED PRIOR TO THE START OF CONSTRUCTION, AND WILL REMAIN POSTED UNTIL CONSTRUCTION IS COMPLETE.

If you have any questions during the project, please contact Oak Lawn Public Works at 708-499-7756.

_____DATE_____.

DRIVEWAY CONSTRUCTION NOTICE

STREET RESURFACING

Dear Resident:

_____CONTRACTOR NAME_____ will begin construction on the curb and gutter in front of your driveway on _____DATE_____. **From** _____DATE_____ **through** ____DATE____ **, you will not have access to your driveway.** Weather permitting, construction will take approximately 7 days and will progress in the following manner:

- Removal of curb and gutter and driveway (asphalt or concrete)
- Pour curb and gutter
- Pour concrete driveway
- Allow **3 days** for concrete driveway to cure
- Asphalt driveways will be replaced at a later date, but temporary access will be maintained

Parking

The options for parking are as follows:

- Between 6:00 AM and 6:00 PM, on-street parking will be available on **adjacent streets**. During this time, your street will be open to traffic to allow for access to your home, but parking **on your street** will not be allowed.
- Unless posted, overnight on-street parking for residents will be available on ____your street beginning at 6:00 PM. Please make sure your vehicle is moved by 6:00 AM the following morning.
- Talk to your neighbors about sharing driveways during your driveway replacement.

If you have any questions during the project, please contact Oak Lawn Public Works at 708-499-7756.

CONFORMITY WITH CONTRACT

The Contractor (and his/her subcontractors) shall be responsible for reviewing the Standard Specifications, Plans, and Special Provisions prior to beginning work on any pay item. The Contractor shall pay special attention to Article 105.03 of the IDOT Standard Specifications and this special provision.

Work completed on any pay item which does not conform to the specifications shall be rejected and payment withheld until the item has been corrected or replaced to the satisfaction of the Owner/Engineer.

Non-conformity shall include but not be limited to use of non-approved suppliers and/or materials, defaced or poorly finished concrete work, improper installation of plant materials, not saw cutting prior to removing items, and unloading excess concrete/asphalt in the curb line or parkway.

Non-conformance shall also include work incidental to each pay item including replacement of sprinklers and street signs.

All work found to be in non-conformance shall be replaced at the Contractor’s expense and no time extensions shall be allowed to correct the work. All non-conforming work will require the “Notice of Non-Compliance” form to be filled out and signed by the Contractor and Engineer.

AGGREGATE SUBGRADE IMPROVEMENT (BDE)

Effective: April 1, 2012
Revised: April 1, 2022

Add the following Section to the Standard Specifications:

"**SECTION 303. AGGREGATE SUBGRADE IMPROVEMENT**

303.01 Description. This work shall consist of constructing an aggregate subgrade improvement (ASI).

303.02 Materials. Materials shall be according to the following.

Item	Article/Section
(a) Coarse Aggregate	1004.07
(b) Reclaimed Asphalt Pavement (RAP)	1031.09

303.03 Equipment. The vibratory roller shall be according to Article 1101.01, or as approved by the Engineer. Vibratory machines, such as tampers, shall be used in areas where rollers do not fit.

303.04 Soil Preparation. The minimum immediate bearing value (IBV) of the soil below the improved subgrade shall be according to the Department's "Subgrade Stability Manual" for the aggregate thickness specified.

303.05 Placing and Compacting. The maximum nominal lift thickness of aggregate gradations CA 2, CA 6, and CA 10 when compacted shall be 9 in. (225 mm). The maximum nominal lift thickness of aggregate gradations CS 1, CS 2, and RR 1 when compacted shall be 24 in. (600 mm).

The top surface of the aggregate subgrade improvement shall consist of a layer of capping aggregate gradations CA 6 or CA 10 that is 3 in. (75 mm) thick after compaction. Capping aggregate will not be required when aggregate subgrade improvement is used as a cubic yard pay item for undercut applications.

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

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

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

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

Add the following to Section 1004 of the Standard Specifications:

"**1004.07 Coarse Aggregate for Aggregate Subgrade Improvement (ASI).** The aggregate shall be according to Article 1004.01 and the following.

(a) Description. The coarse aggregate shall be crushed gravel, crushed stone, or crushed concrete. In applications where greater than 24 in. (600 mm) of ASI material is required, gravel may be used below the top 12 in (300 mm) of ASI.

(b) Quality. The coarse aggregate shall consist of sound durable particles reasonably free of deleterious materials.

(c) Gradation.

(1) The coarse aggregate gradation for total ASI thickness less than or equal to 12 in. (300 mm) shall be CA 2, CA 6, CA 10, or CS 1.

The coarse aggregate gradation for total ASI thickness greater than 12 in. (300 mm) shall be CS 1 or CS 2 as shown below or RR 1 according to Article 1005.01(c).

	COARSE AGGREGATE SUBGRADE GRADATIONS				
Grad No.	Sieve Size and Percent Passing				
	8"	6"	4"	2"	#4
CS 1	100	97 ± 3	90 ± 10	45 ± 25	20 ± 20
CS 2		100	80 ± 10	25 ± 15	

	COARSE AGGREGATE SUBGRADE GRADATIONS (Metric)				
Grad No.	Sieve Size and Percent Passing				
	200 mm	150 mm	100 mm	50 mm	4.75 mm
CS 1	100	97 ± 3	90 ± 10	45 ± 25	20 ± 20
CS 2		100	80 ± 10	25 ± 15	

(2) Capping aggregate shall be gradation CA 6 or CA 10."

Add the following to Article 1031.09 of the Standard Specifications:

"(b) RAP in Aggregate Subgrade Improvement (ASI). RAP in ASI shall be according to Articles 1031.01(a), 1031.02(a), 1031.06(a)(1), and 1031.06(a)(2), and the following.

(1) The testing requirements of Article 1031.03 shall not apply.

(2) Crushed RAP used for the lower lift may be mechanically blended with aggregate gradations CS 1, CS 2, and RR 1 but it shall be no greater than 40 percent of the total product volume. RAP agglomerations shall be no greater than 4 in. (100 mm).

(3) For capping aggregate, well graded RAP having 100 percent passing the 1 1/2 in. (38 mm) sieve may be used when aggregate gradations CS 1, CS 2, CA 2, or RR 1 are used in the lower lift. FRAP will not be permitted as capping material.

Blending shall be through calibrated interlocked feeders or a calibrated blending plant such that the prescribed blending percentage is maintained throughout the blending process. The calibration shall have an accuracy of ± 2.0 percent of the actual quantity of material delivered."

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COMPENSABLE DELAY COSTS (BDE)

Effective: June 2, 2017
Revised: April 1, 2019

Revise Article 107.40(b) of the Standard Specifications to read:

"(b) Compensation. Compensation will not be allowed for delays, inconveniences, or damages sustained by the Contractor from conflicts with facilities not meeting the above definition; or if a conflict with a utility in an unanticipated location does not cause a shutdown of the work or a documentable reduction in the rate of progress exceeding the limits set herein. The provisions of Article 104.03 notwithstanding, compensation for delays caused by a utility in an unanticipated location will be paid according to the provisions of this Article governing minor and major delays or reduced rate of production which are defined as follows.

(1) Minor Delay. A minor delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two hours, but not to exceed two weeks.

(2) Major Delay. A major delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two weeks.

(3) Reduced Rate of Production Delay. A reduced rate of production delay occurs when the rate of production on the work in conflict with the utility in an unanticipated location decreases by more than 25 percent and lasts longer than seven calendar days."

Revise Article 107.40(c) of the Standard Specifications to read:

"(c) Payment. Payment for Minor, Major, and Reduced Rate of Production Delays will be made as follows.

(1) Minor Delay. Labor idled which cannot be used on other work will be paid for according to Article 109.04(b)(1) and (2) for the time between start of the delay and the minimum remaining hours in the work shift required by the prevailing practice in the area.

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

(2) Major Delay. Labor will be the same as for a minor delay.

Equipment will be the same as for a minor delay, except Contractor-owned equipment will be limited to two weeks plus the cost of move-out to either the

Contractor's yard or another job and the cost to re-mobilize, whichever is less. Rental equipment may be paid for longer than two weeks provided the Contractor presents adequate support to the Department (including lease agreement) to show retaining equipment on the job is the most economical course to follow and in the public interest.

(3) Reduced Rate of Production Delay. The Contractor will be compensated for the reduced productivity for labor and equipment time in excess of the 25 percent threshold for that portion of the delay in excess of seven calendar days. Determination of compensation will be in accordance with Article 104.02, except labor and material additives will not be permitted.

Payment for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be determined according to Article 109.13."

Revise Article 108.04(b) of the Standard Specifications to read:

"(b) No working day will be charged under the following conditions.

(1) When adverse weather prevents work on the controlling item.

(2) When job conditions due to recent weather prevent work on the controlling item.

(3) When conduct or lack of conduct by the Department or its consultants, representatives, officers, agents, or employees; delay by the Department in making the site available; or delay in furnishing any items required to be furnished to the Contractor by the Department prevents work on the controlling item.

(4) When delays caused by utility or railroad adjustments prevent work on the controlling item.

(5) When strikes, lock-outs, extraordinary delays in transportation, or inability to procure critical materials prevent work on the controlling item, as long as these delays are not due to any fault of the Contractor.

(6) When any condition over which the Contractor has no control prevents work on the controlling item."

Revise Article 109.09(f) of the Standard Specifications to read:

"(f) Basis of Payment. After resolution of a claim in favor of the Contractor, any adjustment in time required for the work will be made according to Section 108. Any adjustment in the costs to be paid will be made for direct labor, direct materials, direct equipment, direct jobsite overhead, direct offsite overhead, and other direct costs allowed by the resolution. Adjustments in costs will not be made for interest charges, loss of anticipated profit, undocumented loss of efficiency, home office overhead and unabsorbed overhead

other than as allowed by Article 109.13, lost opportunity, preparation of claim expenses and other consequential indirect costs regardless of method of calculation.

The above Basis of Payment is an essential element of the contract and the claim cost recovery of the Contractor shall be so limited."

Add the following to Section 109 of the Standard Specifications.

"**109.13 Payment for Contract Delay.** Compensation for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be allowed when such costs result from a delay meeting the criteria in the following table.

Contract Type	Cause of Delay	Length of Delay
Working Days	Article 108.04(b)(3) or Article 108.04(b)(4)	No working days have been charged for two consecutive weeks.
Completion Date	Article 108.08(b)(1) or Article 108.08(b)(7)	The Contractor has been granted a minimum two week extension of contract time, according to Article 108.08.

Payment for each of the various costs will be according to the following.

(a) Escalated Material and/or Labor Costs. When the delay causes work, which would have otherwise been completed, to be done after material and/or labor costs have increased, such increases will be paid. Payment for escalated material costs will be limited to the increased costs substantiated by documentation furnished by the Contractor. Payment for escalated labor costs will be limited to those items in Article 109.04(b)(1) and (2), except the 35 percent and 10 percent additives will not be permitted.

(b) Extended Project Overhead. For the duration of the delay, payment for extended project overhead will be paid as follows.

(1) Direct Jobsite and Offsite Overhead. Payment for documented direct jobsite overhead and documented direct offsite overhead, including onsite supervisory and administrative personnel, will be allowed according to the following table.

Original Contract Amount	Supervisory and Administrative Personnel
Up to $5,000,000	One Project Superintendent
Over $ 5,000,000 - up to $25,000,000	One Project Manager, One Project Superintendent or Engineer, and One Clerk
Over $25,000,000 - up to $50,000,000	One Project Manager, One Project Superintendent, One Engineer, and

	One Clerk
Over $50,000,000	One Project Manager, Two Project Superintendents, One Engineer, and One Clerk

(2) Home Office and Unabsorbed Overhead. Payment for home office and unabsorbed overhead will be calculated as 8 percent of the total delay cost.

(c) Extended Traffic Control. Traffic control required for an extended period of time due to the delay will be paid for according to Article 109.04.

When an extended traffic control adjustment is paid under this provision, an adjusted unit price as provided for in Article 701.20(a) for increase or decrease in the value of work by more than ten percent will not be paid.

Upon payment for a contract delay under this provision, the Contractor shall assign subrogation rights to the Department for the Department's efforts of recovery from any other party for monies paid by the Department as a result of any claim under this provision. The Contractor shall fully cooperate with the Department in its efforts to recover from another party any money paid to the Contractor for delay damages under this provision."

80384

CONSTRUCTION AIR QUALITY – DIESEL RETROFIT (BDE)

Effective: June 1, 2010
Revised: January 1, 2025

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 according to the table below.

Horsepower Range	Model Year and Older
50-99	2003
100-299	2002
300-599	2000
600-749	2001
750 and up	2005

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* (https://www.epa.gov/verified-diesel-tech/verified-technologies-list-clean-diesel), 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

EROSION CONTROL BLANKET (BDE)

Effective: August 1, 2025

Revise Article 251.02 of the Standard Specifications to read:

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

Item	Article/Section
(a) Compost	1081.05(b)
(b) Mulch	1081.06(a)
(c) Chemical Mulch Binder	1081.06(a)(3)
(d) Chemical Compost Binder	1081.06(a)(4)
(e) Erosion Control Blanket	1081.10(a)
(f) Wildlife Friendly Erosion Control Blanket	1081.10(b)
(g) Wire Staples	1081.10(c)
(h) Wood Stakes	1081.10(d)
(i) Turf Reinforcement Mat	1081.10(e)"

Revise the first and second sentences of Article 251.04 of the Standard Specifications to read:

"**251.04 Erosion Control Blanket.** All erosion control blanket materials shall be placed on the areas specified within 24 hours of seed placement."

Revise the second paragraph of Article 251.04 of the Standard Specifications to read:

"After the area has been properly shaped, fertilized (when applicable), and seeded, the blanket shall be laid out flat, evenly, and smoothly, without stretching the material. The erosion control blanket shall be placed according to the manufacture's recommendations."

Revise the second sentence of Article 251.06(b) of the Standard Specifications to read:

"Erosion control blanket, wildlife friendly erosion control blanket, and turf reinforcement mat will be measured for payment in square yards (square meters)."

Revise Article 251.07 of the Standard Specifications to read:

"**251.07 Basis of Payment.** This work will be paid for at the contract unit price per acre (hectare) for MULCH, of the method specified; and at the contract unit price per square yard (square meter) for EROSION CONTROL BLANKET, WILDLIFE FRIENDLY EROSION CONTROL BLANKET, or TURF REINFORCEMENT MAT."

Revise first sentence of Article 280.04(h) of the Standard Specifications to read:

"This system consists of temporarily installing erosion control blanket or wildlife friendly erosion control blanket over areas that are to be reworked during a later construction phase."

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

"(g) Temporary Erosion Control Blanket. Temporary erosion control blanket will be paid for at the contract unit price per square yard (square meter) for TEMPORARY EROSION CONTROL BLANKET or TEMPORARY WILDLIFE FRIENDLY EROSION CONTROL BLANKET.

The work of removing, storing, and reinstalling the blanket over areas to be reworked more than once will not be paid for separately but shall be included in the cost of the temporary erosion control blanket or temporary wildlife friendly erosion control blanket."

Revise Article 1081.10 of the Standard Specifications to read:

"**1081.10 Erosion Control Blankets.** The manufacturer shall furnish a certificate with each shipment stating the amount of product furnished and that the material complies with these requirements.

(a) Erosion Control Blanket. Erosion control blanket shall be covered on top and bottom, also known as double net, with a 100 percent biodegradable woven, natural fiber or jute net meeting the following.

Material	Minimum Value
Excelsior	80%
Straw	100%
Coconut or Coir	100% Coconut or Coir
Straw/Coconut or Coir	70% Straw / 30% Coconut or Coir

(b) Wildlife Friendly Erosion Control Blanket. Wildlife friendly erosion control blanket shall be according to Article 1081.10(a) except the netting shall be loose weave, also known as leno weave or gauze weave, with a moveable joint.

(c) Wire Staples. Staples shall be made from No. 11 gauge or heavier uncoated black carbon steel wire, a minimum of 1 in. (25 mm) wide at the top and a minimum overall length of 8 in. (200 mm).

(d) Wood Stakes. Hardwood blanket anchors shall be nominally 7 in. (180 mm) long from neck of hook to tip of anchor. The anchor shall have a minimum 1/2 in. (13 mm) curving hook to hold the blanket in place.

(e) Turf Reinforcement Mat (TRM). The TRM shall be comprised of non-degradable, ultraviolet stabilized synthetic fibers, filaments, netting, and/or wire mesh processed into

a three-dimensional reinforced mat. The mats may include degradable material to assist with vegetation establishment. Soil filled mats will not be allowed.

The TRM shall meet the following physical and performance properties:

Property	Value	Test Method
Tensile Strength, lb/ft (kN/m)	150 (2.19) min.	ASTM D 6818
UV Stability, (% Tensile Retained)	80 min.	ASTM D 4355 (1000 Hour Exposure)
Resiliency, (% Thickness Retained)	80 min.	ASTM D 6524
Allowable Shear Stress, lb/sq ft (Pa) 1/	8 (384)	ECTC approved test method and independent laboratory

1/ Minimum shear stress the TRM (fully vegetated) can sustain without physical damage or excess erosion (> 1/2 in. (13 mm) soil loss) during a 30 minute flow event in large scale testing.

For TRMs containing degradable components, all property values shall be obtained on the non-degradable portion of the matting alone."

80467

FUEL COST ADJUSTMENT (BDE)

Effective: April 1, 2009
Revised: August 1, 2017

Description. Fuel cost adjustments will be made to provide additional compensation to the Contractor, or a credit to the Department, for fluctuations in fuel prices when optioned by the Contractor. The bidder shall indicate with their bid whether or not this special provision will be part of the contract. Failure to indicate "Yes" for any category of work will make that category of work exempt from fuel cost adjustment.

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

(a) Categories of Work.

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

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

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

(4) Category D: Portland Cement Concrete (PCC) Bases, Pavements and Shoulders. Contract pay items constructed under Sections 353, 420, 421 and 483 including any

modified standard or nonstandard items where the character of the work to be performed is considered PCC base, pavement or shoulder. The cumulative total of all applicable item plan quantities shall exceed 7500 sq yd (6000 sq m). Included in the fuel usage factor is 1.20 gal/cu yd (5.94 liters/cu m) factor for trucking.

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

(b) Fuel Usage Factors.

English Units

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

Metric Units

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

(c) Quantity Conversion Factors.

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

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

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

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

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

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

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

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

80229

HOT-MIX ASPHALT (BDE)

Effective: January 1, 2024
Revised: January 1, 2025

Revise the first and second paragraphs of Articles 1030.06(c)(2) of the Standard Specifications to read:

"(2) Personnel. The Contractor shall provide a QC Manager who shall have overall responsibility and authority for quality control. This individual shall maintain active certification as a Hot-Mix Asphalt Level II technician.

In addition to the QC Manager, the Contractor shall provide sufficient personnel to perform the required visual inspections, sampling, testing, and documentation in a timely manner. Mix designs shall be developed by personnel with an active certification as a Hot-Mix Asphalt Level III technician. Technicians performing mix design testing and plant sampling/testing shall maintain active certification as a Hot-Mix Asphalt Level I technician. The Contractor may provide a technician trainee who has successfully completed the Department's "Hot-Mix Asphalt Trainee Course" to assist in the activities completed by a Hot-Mix Asphalt Level I technician for a period of one year after the course completion date. The Contractor may also provide a Gradation Technician who has successfully completed the Department's "Gradation Technician Course" to run gradation tests only under the supervision of a Hot-Mix Asphalt Level II Technician. The Contractor shall provide a Hot-Mix Asphalt Density Tester who has successfully completed the Department's "Nuclear Density Testing" course to run all nuclear density tests on the job site."

Revise the second paragraph of Articles 1030.07(a)(11) and 1030.08(a)(9) of the Standard Specifications to read:

"When establishing the target density, the HMA maximum theoretical specific gravity (G_{mm}) will be based on the running average of four available Department test results for that project. If less than four G_{mm} test results are available, an average of all available Department test results for that project will be used. The initial G_{mm} will be the last available Department test result from a QMP project. If there is no available Department test result from a QMP project, the Department mix design verification test result will be used as the initial G_{mm}."

Revise Article 1030.09(g)(2) of the Standard Specifications to read:

"(2) The Contractor shall complete split verification sample tests listed in the Limits of Precision table in Article 1030.09(h)(1)."

In the Supplemental Specifications, replace the revision for the end of the third paragraph of Article 1030.09(h)(2) with the following:

"When establishing the target density, the HMA maximum theoretical specific gravity (G_{mm}) will be the Department mix design verification test result."

Revise the tenth paragraph of Article 1030.10 of the Standard Specifications to read:

"Production is not required to stop after a test strip has been constructed."

80456

PAVEMENT PATCHING (BDE)

Effective: August 1, 2025

Revise the first sentence of the last paragraph of Article 442.06(a)(2) of the Standard Specifications to read:

"Type IV patches shall be reinforced with welded wire reinforcement according to the details shown on the plans."

Revise Article 442.06(a)(3) of the Standard Specifications to read:

"(3) Class C Patching. Patches adjacent to a new lane of pavement, new portland cement concrete shoulder, or new curb and gutter of more than 20 ft (6 m) in length shall be tied with No. 6 (No. 19) tie bars, 24 in. (600 mm) long, embedded 8 in. (200 mm) at 36 in. (900 mm) centers according to Article 420.05(b).

When the patched pavement is not to be resurfaced, transverse contraction joints shall be formed on 15 ft (4.5 m) to 20 ft (6 m) centers by sawing in all patches that are more than 20 ft (6 m) in length. They shall be placed in line with joints or cracks in the existing slab whenever possible."

Revise the eighth paragraph of Article 442.11 of the Standard Specifications to read:

"Pavement tie bars for patches will be paid for at the contract unit price per each for TIE BARS, of the diameter specified."

80468

SEEDING (BDE)

Effective: November 1, 2022

Revise Article 250.07 of the Standard Specifications to read:

"**250.07 Seeding Mixtures.** The classes of seeding mixtures and combinations of mixtures will be designated in the plans.

When an area is to be seeded with two or more seeding classes, those mixtures shall be applied separately on the designated area within a seven day period. Seeding shall occur prior to placement of mulch cover. A Class 7 mixture can be applied at any time prior to applying any seeding class or added to them and applied at the same time.

TABLE 1 - SEEDING MIXTURES			
Class - Type		Seeds	lb/acre (kg/hectare)
1	Lawn Mixture 1/	Kentucky Bluegrass	100 (110)
		Perennial Ryegrass	60 (70)
		Festuca rubra ssp. r*ubra* (Creeping Red Fescue)	40 (50)
1A	Salt Tolerant Lawn Mixture 1/	Kentucky Bluegrass	60 (70)
		Perennial Ryegrass	20 (20)
		Festuca rubra ssp. *rubra* (Creeping Red Fescue)	20 (20)
		Festuca brevipilla (Hard Fescue)	20 (20)
		Puccinellia distans (Fults Saltgrass or Salty Alkaligrass)	60 (70)
1B	Low Maintenance Lawn Mixture 1/	Turf-Type Fine Fescue 3/	150 (170)
		Perennial Ryegrass	20 (20)
		Red Top	10 (10)
		Festuca rubra ssp. *rubra* (Creeping Red Fescue)	20 (20)
2	Roadside Mixture 1/	*Lolium arundinaceum* (Tall Fescue)	100 (110)
		Perennial Ryegrass	50 (55)
		Festuca rubra ssp. r*ubra* (Creeping Red Fescue)	40 (50)
		Red Top	10 (10)
2A	Salt Tolerant Roadside Mixture 1/	*Lolium arundinaceum* (Tall Fescue)	60 (70)
		Perennial Ryegrass	20 (20)
		Festuca rubra ssp. *rubra* (Creeping Red Fescue)	30 (20)
		Festuca brevipila (Hard Fescue)	30 (20)
		Puccinellia distans (Fults Saltgrass or Salty Alkaligrass)	60 (70)
3	Northern Illinois Slope Mixture 1/	*Elymus canadensis* (Canada Wild Rye) 5/	5 (5)
		Perennial Ryegrass	20 (20)
		Alsike Clover 4/	5 (5)
		Desmanthus illinoensis (Illinois Bundleflower) 4/ 5/	2 (2)
		Schizachyrium scoparium (Little Bluestem) 5/	12 (12)
		Bouteloua curtipendula (Side-Oats Grama) 5/	10 (10)
		Puccinellia distans (Fults Saltgrass or Salty Alkaligrass)	30 (35)
		Oats, Spring	50 (55)
		Slender Wheat Grass 5/	15 (15)
		Buffalo Grass 5/ 7/	5 (5)
3A	Southern Illinois Slope Mixture 1/	Perennial Ryegrass	20 (20)
		Elymus canadensis (Canada Wild Rye) 5/	20 (20)
		Panicum virgatum (Switchgrass) 5/	10 (10)
		Schizachyrium scoparium (Little Blue Stem) 5/	12 (12)
		Bouteloua curtipendula (Side-Oats Grama) 5/	10 (10)
		Dalea candida (White Prairie Clover) 4/ 5/	5 (5)
		Rudbeckia hirta (Black-Eyed Susan) 5/	5 (5)
		Oats, Spring	50 (55)

Class – Type		Seeds	lb/acre (kg/hectare)
4	Native Grass 2/ 6/	*Andropogon gerardi* (Big Blue Stem) 5/	4 (4)
		Schizachyrium scoparium (Little Blue Stem) 5/	5 (5)
		Bouteloua curtipendula (Side-Oats Grama) 5/	5 (5)
		Elymus canadensis (Canada Wild Rye) 5/	1 (1)
		Panicum virgatum (Switch Grass) 5/	1 (1)
		Sorghastrum nutans (Indian Grass) 5/	2 (2)
		Annual Ryegrass	25 (25)
		Oats, Spring	25 (25)
		Perennial Ryegrass	15 (15)
4A	Low Profile Native Grass 2/ 6/	*Schizachyrium scoparium* (Little Blue Stem) 5/	5 (5)
		Bouteloua curtipendula (Side-Oats Grama) 5/	5 (5)
		Elymus canadensis (Canada Wild Rye) 5/	1 (1)
		Sporobolus heterolepis (Prairie Dropseed) 5/	0.5 (0.5)
		Annual Ryegrass	25 (25)
		Oats, Spring	25 (25)
		Perennial Ryegrass	15 (15)
4B	Wetland Grass and Sedge Mixture 2/ 6/	Annual Ryegrass	25 (25)
		Oats, Spring	25 (25)
		Wetland Grasses (species below) 5/	6 (6)

Species:	% By Weight
Calamagrostis canadensis (Blue Joint Grass)	12
Carex lacustris (Lake-Bank Sedge)	6
Carex slipata (Awl-Fruited Sedge)	6
Carex stricta (Tussock Sedge)	6
Carex vulpinoidea (Fox Sedge)	6
Eleocharis acicularis (Needle Spike Rush)	3
Eleocharis obtusa (Blunt Spike Rush)	3
Glyceria striata (Fowl Manna Grass)	14
Juncus effusus (Common Rush)	6
Juncus tenuis (Slender Rush)	6
Juncus torreyi (Torrey's Rush)	6
Leersia oryzoides (Rice Cut Grass)	10
Scirpus acutus (Hard-Stemmed Bulrush)	3
Scirpus atrovirens (Dark Green Rush)	3
Bolboschoenus fluviatilis (River Bulrush)	3
Schoenoplectus tabernaemontani (Softstem Bulrush)	3
Spartina pectinata (Cord Grass)	4

Class – Type		Seeds	lb/acre (kg/hectare)
5	Forb with Annuals Mixture 2/ 5/ 6/	Annuals Mixture (Below) Forb Mixture (Below)	1 (1) 10 (10)

Annuals Mixture - Mixture not exceeding 25 % by weight of any one species, of the following:

Coreopsis lanceolata (Sand Coreopsis)
Leucanthemum maximum (Shasta Daisy)
Gaillardia pulchella (Blanket Flower)
Ratibida columnifera (Prairie Coneflower)
Rudbeckia hirta (Black-Eyed Susan)

Forb Mixture - Mixture not exceeding 5 % by weight PLS of any one species, of the following:

Amorpha canescens (Lead Plant) 4/
Anemone cylindrica (Thimble Weed)
Asclepias tuberosa (Butterfly Weed)
Aster azureus (Sky Blue Aster)
Symphyotrichum leave (Smooth Aster)
Aster novae-angliae (New England Aster)
Baptisia leucantha (White Wild Indigo) 4/
Coreopsis palmata (Prairie Coreopsis)
Echinacea pallida (Pale Purple Coneflower)
Eryngium yuccifolium (Rattlesnake Master)
Helianthus mollis (Downy Sunflower)
Heliopsis helianthoides (Ox-Eye)
Liatris aspera (Rough Blazing Star)
Liatris pycnostachya (Prairie Blazing Star)
Monarda fistulosa (Prairie Bergamot)
Parthenium integrifolium (Wild Quinine)
Dalea candida (White Prairie Clover) 4/
Dalea purpurea (Purple Prairie Clover) 4/
Physostegia virginiana (False Dragonhead)
Potentilla arguta (Prairie Cinquefoil)
Ratibida pinnata (Yellow Coneflower)
Rudbeckia subtomentosa (Fragrant Coneflower)
Silphium laciniatum (Compass Plant)
Silphium terebinthinaceum (Prairie Dock)
Oligoneuron rigidum (Rigid Goldenrod)
Tradescantia ohiensis (Spiderwort)
Veronicastrum virginicum (Culver's Root)

Class – Type		Seeds	lb/acre (kg/hectare)
5A	Large Flower Native Forb Mixture 2/ 5/ 6/	Forb Mixture (see below)	5 (5)
	Species:		% By Weight
	Aster novae-angliae (New England Aster)		5
	Echinacea pallida (Pale Purple Coneflower)		10
	Helianthus mollis (Downy Sunflower)		10
	Heliopsis helianthoides (Ox-Eye)		10
	Liatris pycnostachya (Prairie Blazing Star)		10
	Ratibida pinnata (Yellow Coneflower)		5
	Rudbeckia hirta (Black-Eyed Susan)		10
	Silphium laciniatum (Compass Plant)		10
	Silphium terebinthinaceum (Prairie Dock)		20
	Oligoneuron rigidum (Rigid Goldenrod)		10
5B	Wetland Forb 2/ 5/ 6/	Forb Mixture (see below)	2 (2)
	Species:		% By Weight
	Acorus calamus (Sweet Flag)		3
	Angelica atropurpurea (Angelica)		6
	Asclepias incarnata (Swamp Milkweed)		2
	Aster puniceus (Purple Stemmed Aster)		10
	Bidens cernua (Beggarticks)		7
	Eutrochium maculatum (Spotted Joe Pye Weed)		7
	Eupatorium perfoliatum (Boneset)		7
	Helenium autumnale (Autumn Sneeze Weed)		2
	Iris virginica shrevei (Blue Flag Iris)		2
	Lobelia cardinalis (Cardinal Flower)		5
	Lobelia siphilitica (Great Blue Lobelia)		5
	Lythrum alatum (Winged Loosestrife)		2
	Physostegia virginiana (False Dragonhead)		5
	Persicaria pensylvanica (Pennsylvania Smartweed)		10
	Persicaria lapathifolia (Curlytop Knotweed)		10
	Pychanthemum virginianum (Mountain Mint)		5
	Rudbeckia laciniata (Cut-leaf Coneflower)		5
	Oligoneuron riddellii (Riddell Goldenrod)		2
	Sparganium eurycarpum (Giant Burreed)		5
6	Conservation Mixture 2/ 6/	*Schizachyrium scoparium* (Little Blue Stem) 5/	5 (5)
		Elymus canadensis (Canada Wild Rye) 5/	2 (2)
		Buffalo Grass 5/ 7/	5 (5)
		Vernal Alfalfa 4/	15 (15)
		Oats, Spring	48 (55)
6A	Salt Tolerant Conservation Mixture 2/ 6/	*Schizachyrium scoparium* (Little Blue Stem) 5/	5 (5)
		Elymus canadensis (Canada Wild Rye) 5/	2 (2)
		Buffalo Grass 5/ 7/	5 (5)
		Vernal Alfalfa 4/	15 (15)
		Oats, Spring	48 (55)
		Puccinellia distans (Fults Saltgrass or Salty Alkaligrass)	20 (20)
7	Temporary Turf Cover Mixture	Perennial Ryegrass	50 (55)
		Oats, Spring	64 (70)

Notes:

1/ Seeding shall be performed when the ambient temperature has been between 45 ºF (7 ºC) and 80 ºF (27 ºC) for a minimum of seven (7) consecutive days and is forecasted to be the same for the next five (5) days according to the National Weather Service.
2/ Seeding shall be performed in late fall through spring beginning when the ambient temperature has been below 45 ºF (7 ºC) for a minimum of seven (7) consecutive days and ending when the ambient temperature exceeds 80 ºF (27 ºC) according to the National Weather Service.
3/ Specific variety as shown in the plans or approved by the Engineer.
4/ Inoculation required.
5/ Pure Live Seed (PLS) shall be used.
6/ Fertilizer shall not be used.
7/ Seed shall be primed with KNO_3 to break dormancy and dyed to indicate such.

Seeding will be inspected after a period of establishment. The period of establishment shall be six (6) months minimum, but not to exceed nine (9) months. After the period of establishment, areas not exhibiting 75 percent uniform growth shall be interseeded or reseeded, as determined by the Engineer, at no additional cost to the Department."

80445

VEHICLE AND EQUIPMENT WARNING LIGHTS (BDE)

Effective: November 1, 2021

Add the following paragraph after the first paragraph of Article 701.08 of the Standard Specifications:

"The Contractor shall equip all vehicles and equipment with high-intensity oscillating, rotating, or flashing, amber or amber-and-white, warning lights which are visible from all directions. The lights shall be in operation while the vehicle or equipment is engaged in construction operations."

80439

WORK ZONE TRAFFIC CONTROL DEVICES (BDE)

Effective: March 2, 2020
Revised: January 1, 2025

Add the following to Article 701.03 of the Standard Specifications:

"(q) Temporary Sign Supports .....1106.02"

Revise the third paragraph of Article 701.14 of the Standard Specifications to read:

"For temporary sign supports, the Contractor shall provide a FHWA eligibility letter for each device used on the contract. The letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device. The signs shall be supported within 20 degrees of vertical. Weights used to stabilize signs shall be attached to the sign support per the manufacturer's specifications."

Revise the first paragraph of Article 701.15 of the Standard Specifications to read:

"**701.15 Traffic Control Devices.** For devices that must meet crashworthiness standards, the Contractor shall provide a manufacturer's self-certification or a FHWA eligibility letter for each Category 1 device and a FHWA eligibility letter for each Category 2 and Category 3 device used on the contract. The self-certification or letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device."

Revise the first six paragraphs of Article 1106.02 of the Standard Specifications to read:

"**1106.02 Devices.** Work zone traffic control devices and combinations of devices shall meet crashworthiness standards for their respective categories. The categories are as follows.

Category 1 includes small, lightweight, channelizing and delineating devices that have been in common use for many years and are known to be crashworthy by crash testing of similar devices or years of demonstrable safe performance. These include cones, tubular markers, plastic drums, and delineators, with no attachments (e.g. lights). Category 1 devices shall be MASH compliant.

Category 2 includes devices that are not expected to produce significant vehicular velocity change but may otherwise be hazardous. These include vertical panels with lights, barricades, temporary sign supports, and Category 1 devices with attachments (e.g. drums with lights). Category 2 devices shall be MASH compliant.

Category 3 includes devices that are expected to cause significant velocity changes or other potentially harmful reactions to impacting vehicles. These include crash cushions (impact attenuators), truck mounted attenuators, and other devices not meeting the definitions of Category 1 or 2. Category 3 devices manufactured after December 31, 2019 shall be MASH compliant. Category 3 devices manufactured on or before December 31, 2019, and compliant

with NCHRP 350, may be used on contracts let before December 31, 2029. Category 3 devices shall be crash tested for Test Level 3 or the test level specified.

Category 4 includes portable or trailer-mounted devices such as sign supports, speed feedback displays, arrow boards, changeable message signs, temporary traffic signals, and area lighting supports. It is preferable for Category 4 devices manufactured after December 31, 2019 to be MASH-16 compliant; however, there are currently no crash tested devices in this category, so it remains exempt from the NCHRP 350 or MASH compliance requirement.

For each type of device, when no more than one MASH compliant is available, an NCHRP 350 compliant device may be used, even if manufactured after December 31, 2019."

Revise Articles 1106.02(g), 1106.02(k), and 1106.02(l) to read:

"(g) Truck Mounted/Trailer Mounted Attenuators. The attenuator shall be approved for use at Test Level 3. Test Level 2 may be used for normal posted speeds less than or equal to 45 mph.

(k) Temporary Water Filled Barrier. The water filled barrier shall be a lightweight plastic shell designed to accept water ballast and be on the Department's qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings.

(l) Movable Traffic Barrier. The movable traffic barrier shall be on the Department's qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings. The barrier shall be capable of being moved on and off the roadway on a daily basis."

80427

ABV	ABOVE
A/C	ACCESS CONTROL
AC	ACRE
ADJ	ADJUST
AS	AERIAL SURVEYS
AGG	AGGREGATE
AH	AHEAD
APT	APARTMENT
ASPH	ASPHALT
AUX	AUXILIARY
AGS	AUXILIARY GAS VALVE (SERVICE)
AVE	AVENUE
AX	AXIS OF ROTATION
BK	BACK
B-B	BACK TO BACK
BKPL	BACKPLATE
B	BARN
BARR	BARRICADE
BL	BASELINE
BGN	BEGIN
BM	BENCHMARK
BIND	BINDER
BIT	BITUMINOUS
BTM	BOTTOM
BLVD	BOULEVARD
BRK	BRICK
BBOX	BUFFALO BOX
BLDG	BUILDING
CATV	CABLE
CIP	CAST IRON PIPE
CB	CATCH BASIN
C-C	CENTER TO CENTER
CL	CENTERLINE OR CLEARANCE
CL-E	CENTERLINE TO EDGE
CL-F	CENTERLINE TO FACE
CTS	CENTERS
CERT	CERTIFIED
CHSLD	CHISELED
CS	CITY STREET
CP	CLAY PIPE
CLSD	CLOSED
CLID	CLOSED LID
CT	COAT OR COURT
COMB	COMBINATION
C	COMMERCIAL BUILDING
CE	COMMERCIAL ENTRANCE
CONC	CONCRETE
CONST	CONSTRUCT
CONTD	CONTINUED
CONT	CONTINUOUS
COR	CORNER
CORR	CORRUGATED
CMP	CORRUGATED METAL PIPE
CNTY	COUNTY
CH	COUNTY HIGHWAY
CSE	COURSE
XSECT	CROSS SECTION
m^3	CUBIC METER
mm^3	CUBIC MILLIMETER
CU YD	CUBIC YARD
CULV	CULVERT
C&G	CURB & GUTTER
D	DEGREE OF CURVE
DC	DEPRESSED CURVE
DET	DETECTOR
DIA	DIAMETER
DIST	DISTRICT
DOM	DOMESTIC
DBL	DOUBLE
DSEL	DOWNSTREAM ELEVATION
DSFL	DOWNSTREAM FLOWLINE
DR	DRAINAGE OR DRIVE
DI	DRAINAGE INLET OR DROP INLET
DRV	DRIVEWAY
DCT	DUCT
EA	EACH
EB	EASTBOUND
EOP	EDGE OF PAVEMENT
E-CL	EDGE TO CENTERLINE
E-E	EDGE TO EDGE
ELEC	ELECRICAL
EL	ELEVATION
ENTR	ENTRANCE
EXC	EXCAVATION
EX	EXISTING
EXPWAY	EXPRESSWAY
E	EXTERNAL DISTANCE OF HORIZONTAL CURVE
E	OFFSET DISTANCE TO VERTICAL CURVE
F-F	FACE TO FACE
FA	FEDERAL AID
FAI	FEDERAL AID INTERSTATE
FAP	FEDERAL AID PRIMARY
FAS	FEDERAL AID SECONDARY
FAUS	FEDERAL AID URBAN SECONDARY
FP	FENCE POST
OPT	FIBER OPTIC
FE	FIELD ENTRANCE
FH	FIRE HYDRANT
FL	FLOW LINE
FB	FOOT BRIDGE
FDN	FOUNDATION
FR	FRAME
F&G	FRAME & GRATE
FRWAY	FREEWAY
GAL	GALLON
GALV	GALVANIZED
G	GARAGE
GM	GAS METER
GV	GAS VALVE
GIS	GEOGRAPHICAL INFORMATION SYSTEM
GRAN	GRANULAR
GR	GRATE
GRVL	GRAVEL
GND	GROUND
GUT	GUTTER
GP	GUY POLE
GW	GUY WIRE
HH	HANDHOLE
HATCH	HATCHING
HD	HEAD
HDW	HEADWALL
HDUTY	HEAVY DUTY
ha	HECTARE
HMA	HOT MIX ASPHALT
HWY	HIGHWAY
HORIZ	HORIZONTAL
HSE	HOUSE
IL	ILLINOIS
IMP	IMPROVEMENT
IN DIA	INCH DIAMETER
INL	INLET
INST	INSTALLATION
IDS	INTERSECTION DESIGN STUDY
INV	INVERT
IP	IRON PIPE
IR	IRON ROD
JT	JOINT
kg	KILOGRAM
km	KILOMETER
LS	LANDSCAPING
LN	LANE
LT	LEFT
LIDAR	LIGHT DETECTION AND RANGING
LP	LIGHT POLE
LGT	LIGHTING
LF	LINEAL FEET OR LINEAR FEET
L	LITER OR CURVE LENGTH
LC	LONG CHORD
LNG	LONGITUDINAL
L SUM	LUMP SUM
MACH	MACHINE
MB	MAIL BOX
MH	MANHOLE
MATL	MATERIAL
MED	MEDIAN
m	METER
METH	METHOD
M	MID-ORDINATE
mm	MILLIMETER
mm DIA	MILLIMETER DIAMETER
MIX	MIXTURE
MBH	MOBILE HOME
MOD	MODIFIED
MFT	MOTOR FUEL TAX
N & BC	NAIL & BOTTLE CAP
N & C	NAIL & CAP
N & W	NAIL & WASHER
NC	NORMAL CROWN
NB	NORTHBOUND
NE	NORTHEAST
NW	NORTHWEST
O/S	OFFSET
O&C	OIL AND CHIP
OLID	OPEN LID
PAT	PATTERN
PVD	PAVED
PVMT	PAVEMENT
PM	PAVEMENT MARKING
PED	PEDESTAL
PNT	POINT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION OF HORIZONTAL CURVE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
POT	POINT ON TANGENT
POLYETH	POLYETHYLENE
PCC	PORTLAND CEMENT CONCRETE
PP	POWER POLE OR PRINCIPAL POINT
PRM	PRIME
PE	PRIVATE ENTRANCE
PROF	PROFILE
PGL	PROFILE GRADELINE
PROJ	PROJECT
P.C.	PROPERTY CORNER
PL	PROPERTY LINE
PR	PROPOSED
R	RADIUS or RESIDENTUAL
RR	RAILROAD
RRS	RAILROAD SPIKE
RPS	REFERENCE POINT STAKE
REF	REFLECTIVE
RCCP	REINFORCED CONCRETE CULVERT PIPE
REINF	REINFORCEMENT
REM	REMOVAL
RC	REMOVE CROWN
REP	REPLACEMENT
REST	RESTAURANT
RESURF	RESURFACING
RET	RETAINING
RT	RIGHT
ROW	RIGHT-OF-WAY
RD	ROAD
RDWY	ROADWAY
RTE	ROUTE
SAN	SANITARY
SANS	SANITARY SEWER
SEC	SECTION
SEED	SEEDING
SHAP	SHAPING
S	SHED
SH	SHEET
SHLD	SHOULDER
SW	SIDEWALK OR SOUTHWEST
SIG	SIGNAL
SOD	SODDING
SM	SOLID MEDIAN
SB	SOUTHBOUND
SE	SOUTHEAST
SPL	SPECIAL
SD	SPECIAL DITCH
SQ FT	SQUARE FEET
m^2	SQUARE METER
mm^2	SQUARE MILLIMETER
SQ YD	SQUARE YARD
STB	STABILIZED
STD	STANDARD
SBI	STATE BOND ISSUE
SR	STATE ROUTE
STA	STATION
SPBGR	STEEL PLATE BEAM GUARDRAIL
SS	STORM SEWER
STY	STORY
ST	STREET
STR	STRUCTURE
e	SUPERELEVATION RATE
S.E. RUN.	SUPERELEVATION RUNOFF LENGTH
SURF	SURFACE
SMK	SURVEY MARKER
T	TANGENT DISTANCE
T.R.	TANGENT RUNOUT DISTANCE
TEL	TELEPHONE
TB	TELEPHONE BOX
TP	TELEPHONE POLE
TEMP	TEMPORARY
TBM	TEMPORARY BENCH MARK
TD	TILE DRAIN
TBE	TO BE EXTENDED
TBR	TO BE REMOVED
TBS	TO BE SAVED
TWP	TOWNSHIP
TR	TOWNSHIP ROAD
TS	TRAFFIC SIGNAL
TSCB	TRAFFIC SIGNAL CONTROL BOX
TSC	TRAFFIC SYSTEMS CENTER
TRVS	TRANSVERSE
TRVL	TRAVEL
TRN	TURN
TY	TYPE
T-A	TYPE A
TYP	TYPICAL
UNDGND	UNDERGROUND
USGS	U.S. GEOLOGICAL SURVEY
USEL	UPSTREAM ELEVATION
USFL	UPSTREAM FLOWLINE
UTIL	UTILITY
VBOX	VALVE BOX
VV	VALVE VAULT
VLT	VAULT
VEH	VEHICLE
VP	VENT PIPE
VERT	VERTICAL
VC	VERTICAL CURVE
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
WM	WATER METER
WV	WATER VALVE
WMAIN	WATER MAIN
WB	WESTBOUND
WILDFL	WILDFLOWERS
W	WITH
WO	WITHOUT

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ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-21	Updated fonts, abbreviations
	and symbols.
1-1-19	Added new symbols.

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

STANDARD 000001-08

ADJUSTMENT ITEMS

	EX	PR
Structure To Be Adjusted		ADJ
Structure To Be Cleaned		C
Main Structure To Be Filled		FM
Structure To Be Filled		F
Structure To Be Filled Special		FSP
Structure To Be Removed		R
Structure To Be Reconstructed		REC
Structure To Be Reconstructed Special		RSP
Frame and Grate To Be Adjusted		A
Frame and Lid To Be Adjusted		A
Domestic Service Box To Be Adjusted		A
Valve Vault To Be Adjusted		A
Special Adjustment		SP
Item To Be Abandoned		AB
Item To Be Moved		M
Item To Be Relocated		REL
Pavement Removal and Replacement		

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ALIGNMENT ITEMS

	EX	PR
Baseline		
Centerline		
Centerline Break Circle		
Baseline Symbol		
Centerline Symbol		
PI Indicator		
Point Indicator		
Horizontal Curve Data (Half Size)	EX. CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=	CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=

BOUNDARIES ITEMS

	EX	PR
Dashed Property Line		
Solid Property/Lot Line		
Section/Grant Line		
Quarter Section Line		
Quarter/Quarter Section Line		
County/Township Line		
State Line		
Chiseled Square Found		
Iron Pipe Found		
Iron Pipe Set		
Survey Marker		
Property Line Symbol		
Same Ownership Symbol (Half Size)		
Northwest Quarter Corner (Half Size)		
Section Corner (Half Size)		
Southeast Quarter Corner (Half Size)		

DRAINAGE ITEMS

	EX	PR
Channel or Stream Line		
Culvert Line		
Grading & Shaping Ditches		
Drainage Boundary Line		
Paved Ditch		
Aggregate Ditch		
Pipe Underdrain		
Storm Sewer		
Flowline		
Ditch Check		
Headwall		
Inlet		
Manhole		
Summit		
Roadway Ditch Flow		
Swale		
Catch Basin		
Culvert End Section		
Water Surface Indicator		
Riprap		

HYDRAULICS ITEMS

	EX	PR
Overflow		
Sheet Flow		
Hydrant Outlet		

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

STANDARD 000001-08

EROSION & SEDIMENT CONTROL ITEMS

	EX	PR
Cleaning & Grading Limits		
Dike		
Erosion Control Fence		
Perimeter Erosion Barrier		
Temporary Fence		
Ditch Check Temporary		
Ditch Check Permanent		
Inlet & Pipe Protection		
Sediment Basin		
Erosion Control Blanket		
Fabric Formed Concrete Revetment Mat		
Turf Reinforcement Mat		
Mulch Temporary		
Mulch Method 1		
Mulch Method 2 Stabilized		
Mulch Method 3 Hydraulic		

CONTOUR ITEMS

	EX	PR
Approx. Index Line		
Approx. Intermediate Line		
Index Contour		
Intermediate Contour		

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NON-HIGHWAY IMPROVEMENT ITEMS

	EX	PR
Noise Attn./Levee		
Field Line		
Fence		
Base of Levee		
Mailbox		
Multiple Mailboxes		
Pay Telephone		
Advertising Sign		
ITS* Camera		
Wind Turbine		
Cellular Tower		

*Intelligent Transportation Systems

LANDSCAPING ITEMS

	EX	PR
Contour Mounding Line		
Fence		
Fence Post		
Shrubs		
Mowline		
Perennial Plants		
Seeding Class 2		
Seeding Class 2A		
Seeding Class 4		
Seeding Class 4 & 5 Combined		

EXISTING LANDSCAPING ITEMS (contd.)

	EX	PR
Seeding Class 5		
Seeding Class 7		
Seedlings Type 1		
Seedlings Type 2		
Sodding		
Mowstake w/Sign		
Tree Trunk Protection		
Evergreen Tree	E	
Shade Tree	E	

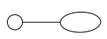
LIGHTING

	EX	PR
Duct		
Conduit		
Electrical Aerial Cable	A	A
Electrical Buried Cable	L	L
Controller		
Underpass Luminaire		
Power Pole		

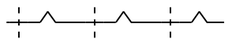
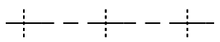
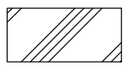
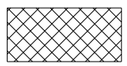
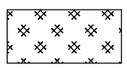
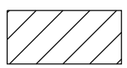
STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

STANDARD 000001-08

LIGHTING (contd.)

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

PAVEMENT (MISC.)

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

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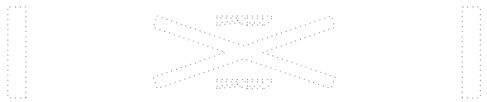
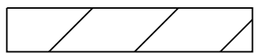
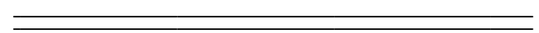
PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

PAVEMENT MARKINGS

	EX	PR
Handicap Symbol		
RR Crossing		
Raised Marker Amber 1 Way		
Raised Marker Amber 2 Way		
Raised Marker Crystal 1 Way		
Two Way Turn Left		
Shoulder Diag. Pattern		
Skip-Dash White		
Skip-Dash Yellow		
Stop Line		
Solid Line		
Double Centerline		
Dotted Lines		

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 4 of 9)

STANDARD 000001-08

PAVEMENT MARKINGS (contd.)

	EX	PR
CL 2Ln 2Way RRPM 12.2 m (40') o.c.		
CL 2Ln 2Way RRPM 80' (24.4 m) o.c.		
CL Multilane Div. RRPM 40' (12.2 m) o.c.		
CL Multilane Div. RRPM 80' (24.4 m) o.c.		
CL Multilane Div. Dbl. RRPM 80' (24.4 m) o.c.		
CL Multilane Undiv.		
Two Way Turn Left Line		
Urban Combination Left		
Urban Combination Right		
Urban Left Turn Arrow		
Urban Right Turn Arrow		
Urban Left Turn Only		
Urban Right Turn Only		
Urban Thru Only		
Urban LT & RT Turn Arrow		
Urban Thru Arrow		

RAILROAD ITEMS	EX	PR
Abandoned Railroad		
Railroad		
Railroad Point		
Control Box		
Crossing Gate		
Flashing Signal		
Railroad Cant. Mast Arm		
Crossbuck		

REMOVAL ITEMS	EX	PR
Removal Tic		
Bituminous Removal		
Hatch Pattern		
Tree Removal Single		

RIGHT OF WAY ITEMS	EX	PR
Future ROW Corner Monument		
ROW Marker		
ROW Line		
Easement		
Temporary Easement		

Illinois Department of Transportation

PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 5 of 9)

STANDARD 000001-08

PAVEMENT MARKINGS (contd.)

	EX	PR
Urban U-Turn		
Urban Combined U-Turn		
Rural Combination Left		
Rural Combination Right		
Rural Left Turn Arrow		
Rural Right Turn Arrow		
Rural Left Turn Only		ONLY ONLY ONLY
Rural Right Turn Only		
Rural Thru Only		
Rural Thru Arrow		
Rural Lt & Rt Turn Arrow		
Bike Lane Symbol		
Bike Lane Text		BIKE LANE
Bike Path Shared		
Bike Shared Roadway		
Lane Drop Symbol		
Wrong Way Arrow		

Illinois Department of Transportation

PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

STANDARD 000001-08

RIGHT OF WAY ITEMS (contd.)

	EX	PR
Access Control Line		AC
Access Control Line & ROW	AC	AC
Access Control Line & ROW with Fence	AC	AC
Excess ROW Line		XS

ROADWAY PLAN ITEMS

	EX	PR
Cable Barrier		
Concrete Barrier		
Edge of Pavement		
Bit Shoulders, Medians and C&G Line		
Aggregate Shoulder		
Sidewalks, Driveways		
Guardrail		
Guardrail Post		
Traffic Sign		
Corrugated Median		
Impact Attenuator		
North Arrow with District Office (Half Size)	N	
Match Line		STA. 45+00
Slope Limit Line		
Typical Cross-Section Line		

Illinois Department of Transportation

PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

ROADWAY PROFILES

	EX	PR
P.I. Indicator		
Point Indicator		
Earthworks Balance Point		
Begin Point		
Vert. Curve Data	VPI = ELEV= L = E =	VPI = ELEV= L = E =
Ditch Profile Left Side		
Ditch Profile Right Side		
Roadway Profile Line		
Storm Sewer Profile Left Side		
Storm Sewer Profile Right Side		

SIGNING ITEMS

	EX	PR
Cone, Drum or Barricade		
Barricade Type II		
Barricade Type III		
Barricade With Edge Line		
Flashing Light Sign		
Panels I		
Panels II		
Direction of Traffic		
Sign Flag (Half Size)		

SIGNING ITEMS (contd.)

	EX	PR
Reverse Left W1-4L (Half Size)		
Reverse Right W1-4R (Half Size)		
Two Way Traffic Sign W6-3 (Half Size)		
Detour Ahead W20-2(O) (Half Size)		DETOUR AHEAD
Left Lane Closed Ahead W20-5L(O) (Half Size)		LEFT LANE CLOSED AHEAD
Right Lane Closed Ahead W20-5R(O) (Half Size)		RIGHT LANE CLOSED AHEAD
Road Closed Ahead W20-3(O) (Half Size)		ROAD CLOSED AHEAD
Road Construction Ahead W20-1-(O) (Half Size)		ROAD CONSTRUCTION AHEAD
Single Lane Ahead (Half Size)		SINGLE LANE AHEAD
Transition Left W4-2L (Half Size)		
Transition Right W4-2R (Half Size)		

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 7 of 9)

STANDARD 000001-08

SIGNING ITEMS (contd.)

	EX	PR
One Way Arrow Lrg. W1-6-(O) (Half Size)		
Two Way Arrow Large W1-7-(O) (Half Size)		
Detour M4-10L-(O) (Half Size)		DETOUR
Detour M4-10R-(O) (Half Size)		DETOUR
One Way Left R6-1L (Half Size)		ONE WAY
One Way Right R6-1R (Half Size)		ONE WAY
Left Turn Lane R3-I100L (Half Size)		LEFT TURN LANE
Keep Left R4-7AL (Half Size)		KEEP LEFT
Keep Left R4-7BL (Half Size)		KEEP LEFT
Keep Right R4-7AR (Half Size)		KEEP RIGHT
Keep Right R4-7BR (Half Size)		KEEP RIGHT
Stop Here On Red R10-6-AL (Half Size)		STOP HERE ON RED
Stop Here On Red R10-6-AR (Half Size)		STOP HERE ON RED
No Left Turn R3-2 (Half Size)		
No Right Turn R3-1 (Half Size)		
Road Closed R11-2 (Half Size)		ROAD CLOSED
Road Closed Thru Traffic R11-2 (Half Size)		ROAD CLOSED TO THRU TRAFFIC

Illinois Department of Transportation

PASSED January 1, 2021

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

STRUCTURES ITEMS

	EX	PR
Box Culvert Barrel		
Box Culvert Headwall		
Bridge Pier		
Bridge		
Retaining Wall		
Temporary Sheet Piling		

TRAFFIC SHEET ITEMS

	EX	PR
Cable Number		
Left Turn Green	G	G
Left Turn Yellow	Y	Y
Signal Backplate		
Signal Section 8" (200 mm)		
Signal Section 12" (300 mm)		
Walk/Don't Walk Letters	DW W	DW W
Walk/Don't Walk Symbols		

TRAFFIC SIGNAL ITEMS

	EX	PR
Galv. Steel Conduit		
Underground Cable		
Detector Loop Line		
Detector Loop Large		
Detector Loop Small		
Detector Loop Quadrapole		

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 8 of 9)

STANDARD 000001-08

TRAFFIC SIGNAL ITEMS (contd.)

	EX	PR
Detector Raceway		
Aluminum Mast Arm		
Steel Mast Arm		
Veh. Detector Magnetic		
Conduit Splice		
Controller		
Gulfbox Junction		
Wood Pole		
Temp. Signal Head		
Handhole		
Double Handhole		
Heavy Duty Handhole		
Junction Box		
Ped. Pushbutton Detector		
Ped. Signal Head		
Power Pole Service		
Priority Veh. Detector		
Signal Head		
Signal Head w/Backplate		
Signal Post		
Closed Circuit TV		
Video Detector System		

Illinois Department of Transportation

PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

UNDERGROUND UTILITY ITEMS

	EX	PR	ABANDONED
Cable TV	CTV	CTV	CTV
Electric Cable	E	E	E
Fiber Optic	FO	FO	FO
Gas Pipe	G	G	G
Oil Pipe	O	O	O
Sanitary Sewer			
Telephone Cable	T	T	T
Water Pipe	W	W	W

UTILITIES ITEMS

	EX	PR
Controller		
Double Handhole		
Fire Hydrant		
GuyWire or Deadman Anchor		
Handhole		
Heavy Duty Handhole		
Junction Box		
Light Pole		
Manhole		
Monitoring Well (Gasoline)		
Pipeline Warning Sign		
Power Pole		
Power Pole with Light		
Sanitary Sewer Cleanout		
Splice Box Above Ground		
Telephone Splice Box Above Ground		
Telephone Pole		

UTILITY ITEMS (contd.)

	EX	PR
Traffic Signal		
Traffic Signal Control Box		
Water Meter		
Water Meter Valve Box		
Profile Line		
Aerial Power Line	A A	A A

VEGETATION ITEMS

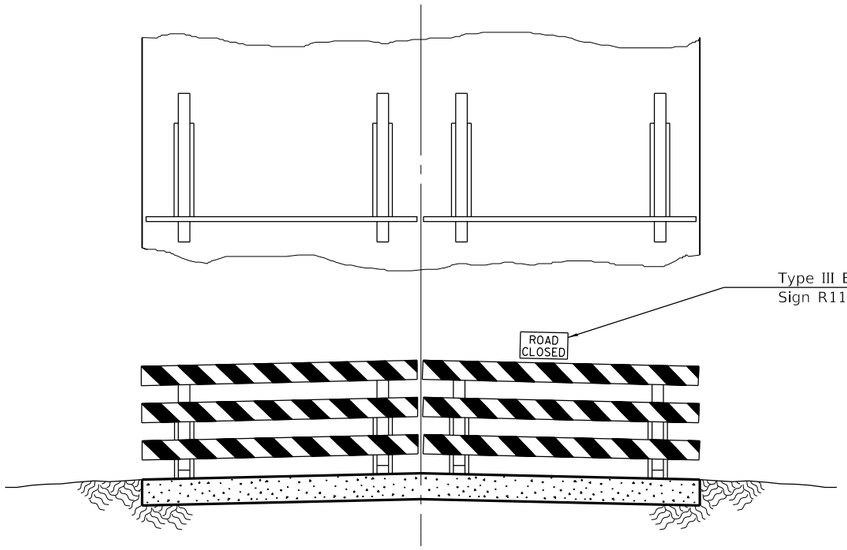
	EX	PR
Deciduous Tree		
Bush or Shrub		
Evergreen Tree		
Stump		
Orchard/Nursery Line		
Vegetation Line		
Woods & Bush Line		

WATER FEATURE ITEMS

	EX	PR
Stream or Drainage Ditch		
Waters Edge		
Water Surface Indicator		
Water Point		
Disappearing Ditch		
Marsh		
Marsh/Swamp Boundary		

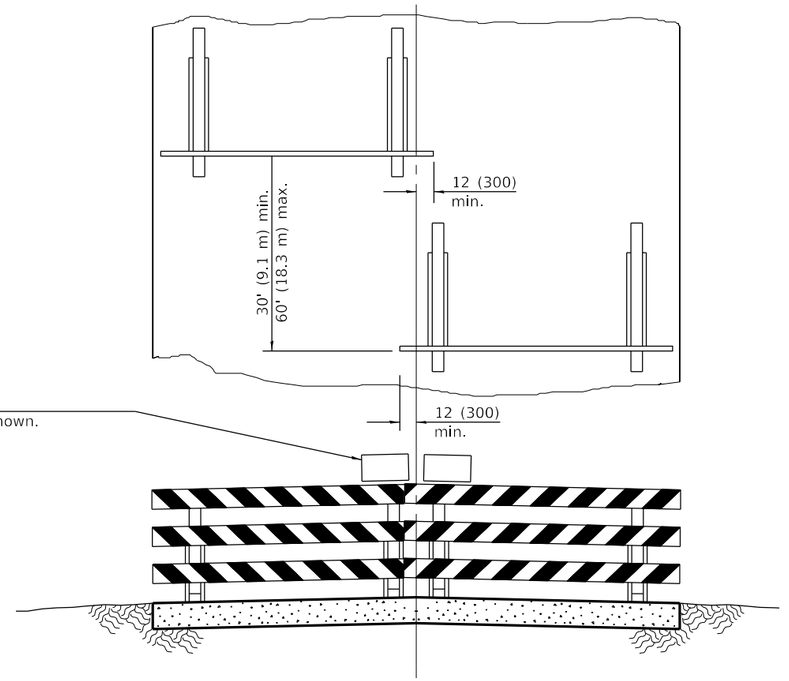
STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

STANDARD 000001-08

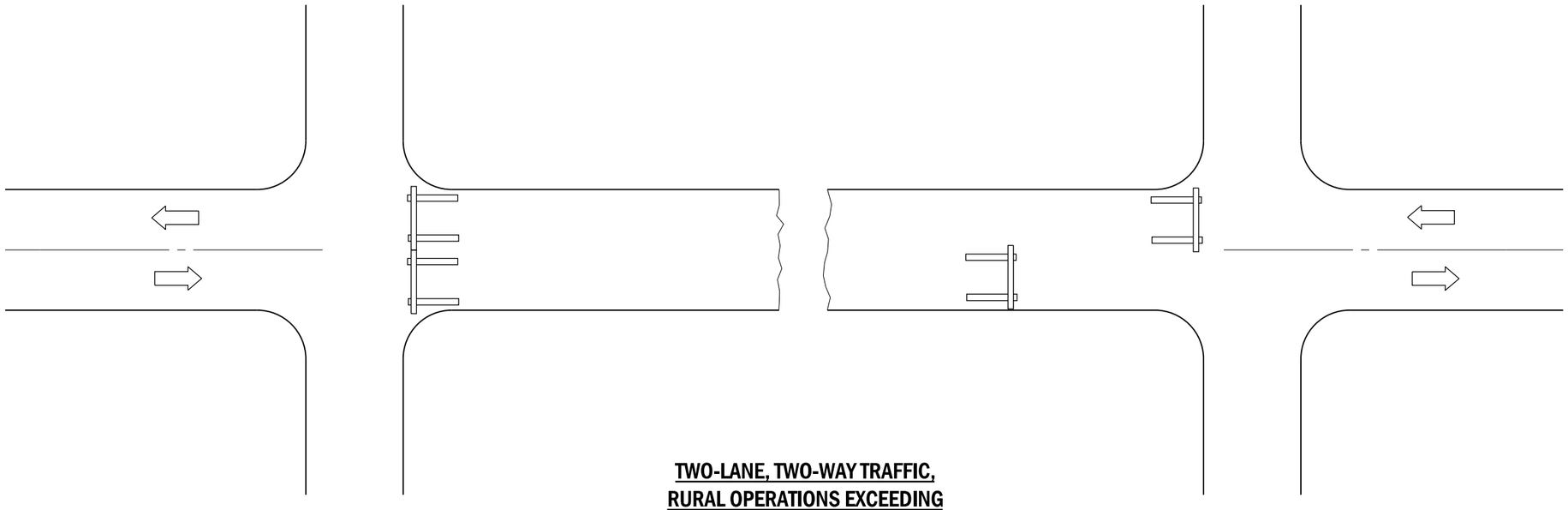


Resident traffic and day labor force's equipment to use road shoulder for passing barricade.

Type III Barricades with Standard Sign R11-2 or R11-4 mounted as shown.



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

PASSED January 1, 2009
Charles J. Ingersoll
ENGINEER OF LOCAL ROADS AND STREETS

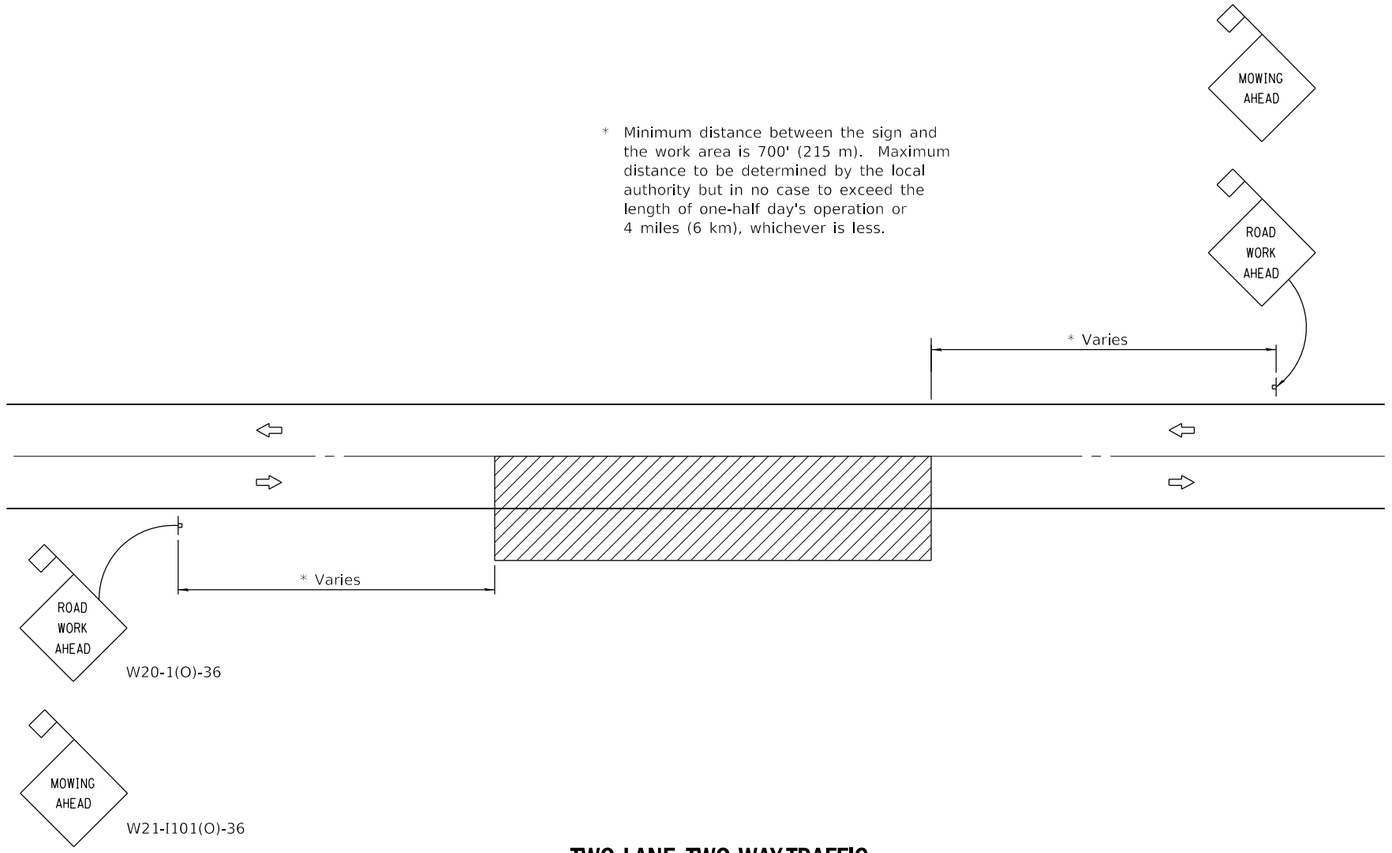
APPROVED January 1, 2009
Eric E. Harm
ENGINEER OF DESIGN AND ENVIRONMENT

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



* Minimum distance between the sign and the work area is 700' (215 m). Maximum distance to be determined by the local authority but in no case to exceed the length of one-half day's operation or 4 miles (6 km), whichever is less.

TWO-LANE, TWO-WAY TRAFFIC
RURAL OPERATIONS
DAY OPERATIONS ONLY

SYMBOLS

Work area

Sign with 18x18 (450x450) min. orange flag attached.

TYPICAL APPLICATIONS

MOWING
SPREADING AGGREGATE
WEED SPRAYING
SURFACE MAINTENANCE
BITUMINOUS RESURFACING
CRACK POURING
SHOULDER REPAIR
CLEANING DITCHES

GENERAL NOTES

Maintenance operations shall be confined to one traffic lane, leaving the opposite lane open to traffic. At least 500' (150 m) of both traffic lanes shall be available for traffic movement between work areas at intervals not greater than 1000' (300 m).

When operations are on the pavement and stationary or moving at a speed less than 4 mph (6 kph), a ONE LANE AHEAD, or other appropriate sign, shall be installed in each direction between the ROAD WORK AHEAD sign and the work area. The distance between this sign and the work area shall be a minimum of 400' (120 m) but in no case to exceed the length of one-half day's operation or 4 miles (6 km), whichever is less. The distance between the two signs shall be approximately 400' (120 m).

All signs are to be removed at completion of the day's operation.

Any unattended obstacle, excavation, or pavement drop off greater than 3 (75) in the work area shall be protected by Type I or Type II barricades with flashing lights.

Longitudinal dimensions may be adjusted slightly to fit field conditions.

All vehicles, equipment, men, and their acitvities are restricted at all times to one side of the pavment.

Flashing lights or rotating beacons are required for all maintenance vehicles while in operation.

Applicable operations illustrated in Standard 701301 may be used when operations do not exceed 15 minutes on the pavement or 60 minutes on the shoulder respectively.

All warning signs shall have minimum dimensions of 36x36 (900x900) and have black legend on an orange reflectorized background.

When fluorescent signs are used, orange flags are not required.

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

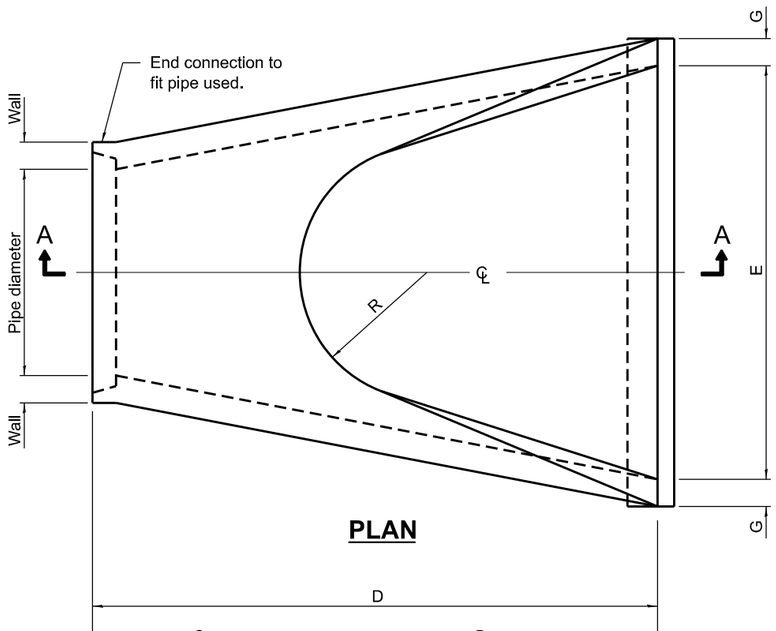
PASSED January 1, 2015
ENGINEER OF LOCAL ROADS AND STREETS
APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

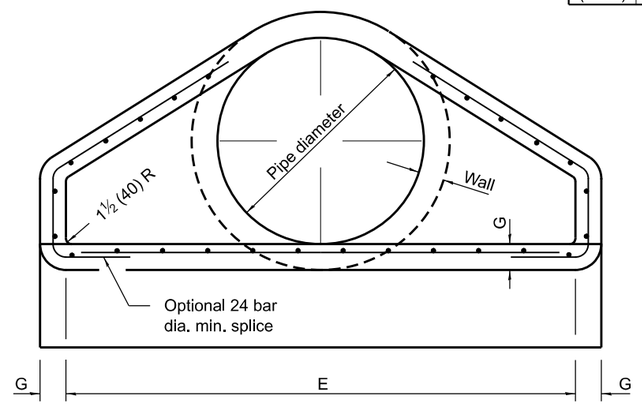
DATE	REVISIONS
1-1-15	Corrected RWA sign number.
1-1-09	Switched units to
	English (metric). Moved
	one General Note.

TRAFFIC CONTROL DEVICES-
DAY LABOR MAINTENANCE

STANDARD B.L.R. 18-6



SECTION A-A



END VIEW

PIPE DIA.	APPROX. QTY. lbs. (kg)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
12 (300)	530 (240)	2 (51)	4 (102)	24 (610)	4'-0⅞" (1.241 m)	6'-0⅞" (1.851 m)	24 (610)	2 (51)	9 (229)	1:2.4
15 (375)	740 (335)	2¼ (57)	6 (152)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	30 (762)	2¼ (57)	11 (280)	1:2.4
18 (450)	990 (450)	2½ (64)	9 (229)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	36 (914)	2½ (64)	12 (305)	1:2.4
21 (525)	1280 (580)	2¾ (70)	9 (229)	35 (889)	38 (965)	6'-1" (1.854 m)	3'-6" (1.067 m)	2¾ (70)	13 (330)	1:2.4
24 (600)	1520 (690)	3 (76)	9½ (241)	3'-7½" (1.105 m)	30 (762)	6'-1½" (1.867 m)	4'-0" (1.219 m)	3 (76)	14 (356)	1:2.5
27 (675)	1930 (875)	3¼ (83)	10½ (267)	4'-0" (1.219 m)	25½ (648)	6'-1½" (1.867 m)	4'-6" (1.372 m)	3¼ (83)	14½ (368)	1:2.4
30 (750)	2190 (995)	3½ (89)	12 (305)	4'-6" (1.375 m)	19¾ (502)	6'-1¾" (1.874 m)	5'-0" (1.524 m)	3½ (89)	15 (381)	1:2.5
33 (825)	3200 (1450)	3¾ (95)	13½ (343)	4'-10½" (1.486 m)	39¼ (997)	8'-1¾" (2.483 m)	5'-6" (1.676 m)	3¾ (95)	17½ (445)	1:2.5
36 (900)	4100 (1860)	4 (102)	15 (381)	5'-3" (1.6 m)	34¾ (883)	8'-1¾" (2.483 m)	6'-0" (1.829 m)	4 (102)	20 (508)	1:2.5
42 (1050)	5380 (2440)	4½ (114)	21 (533)	5'-3" (1.6 m)	35 (889)	8'-2" (2.489 m)	6'-6" (1.981 m)	4½ (114)	22 (559)	1:2.5
48 (1200)	6550 (2970)	5 (127)	24 (610)	6'-0" (1.829 m)	26 (660)	8'-2" (2.489 m)	7'-0" (2.134 m)	5 (127)	22 (559)	1:2.5
54 (1350)	8240 (3740)	5½ (140)	27 (686)	5'-5" (1.651 m)	35 (889)	8'-4" (2.54 m)	7'-6" (2.286 m)	5½ (140)	24 (610)	1:2.0
60 (1500)	8730 (3960)	6 (152)	35 (889)	5'-0" (1.524 m)	39 (991)	8'-3" (2.515 m)	8'-0" (2.438 m)	5 (127)	*	1:1.9
66 (1650)	10710 (4860)	6½ (165)	30 (762)	6'-0" (1.829 m)	27 (686)	8'-3" (2.515 m)	8'-6" (2.591 m)	5½ (140)	*	1:1.7
72 (1800)	12520 (5680)	7 (178)	36 (914)	6'-6" (1.981 m)	21 (533)	8'-3" (2.514 m)	9'-0" (2.743 m)	6 (152	*	1:1.8
78 (1950)	14770 (6700)	7½ (191)	36 (914)	7'-6" (2.286 m)	21 (533)	9'-3" (2.819 m)	9'-6" (2.896 m)	6½ (165)	*	1:1.8
84 (2100)	18160 (8240)	8 (203)	36 (914)	7'-6½" (2.299 m)	21 (533)	9'-3½" (2.832 m)	10'-0" (3.048 m)	6½ (165)	*	1:1.6

* Radius as furnished by manufacturer

GENERAL NOTES

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

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

Illinois Department of Transportation

APPROVED January 1, 2011
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

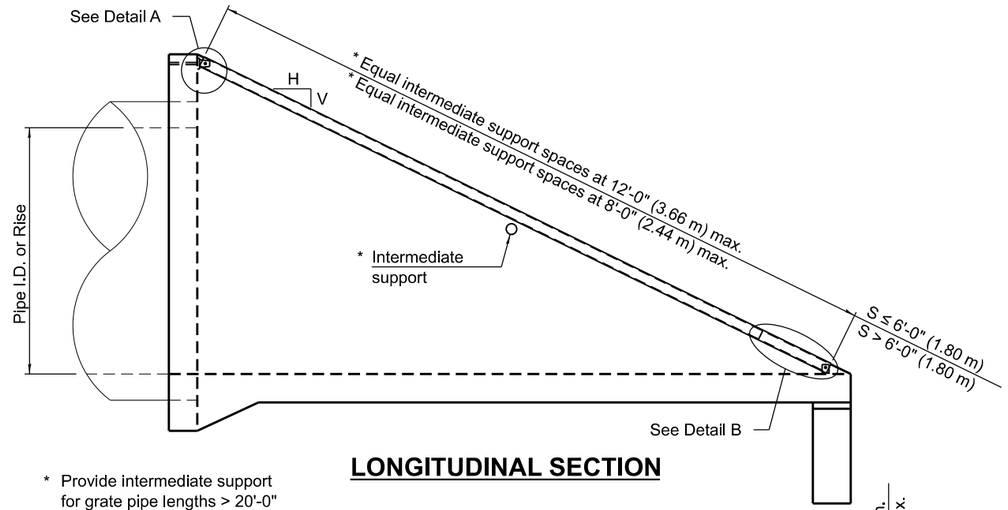
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Clarified ref. to pipe dia. on
	Section A-A. Changed 'inner'
	to 'outer' cage. ref.
1-1-09	Switched units to English (metric).

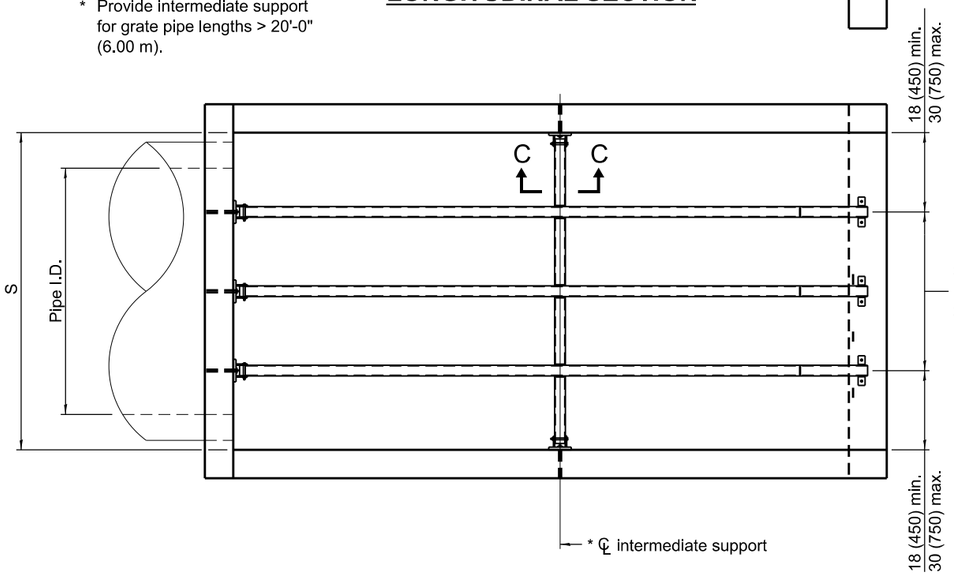
PRECAST REINFORCED CONCRETE FLARED END SECTION

STANDARD 542301-03

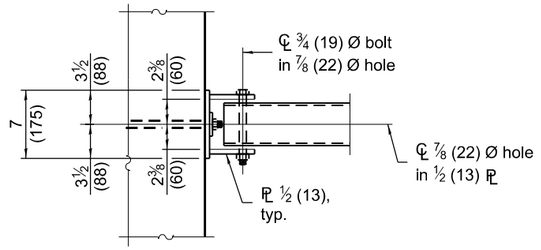


LONGITUDINAL SECTION

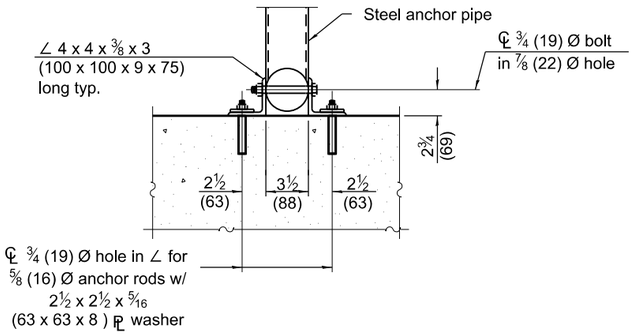
* Provide intermediate support for grate pipe lengths > 20'-0" (6.00 m).



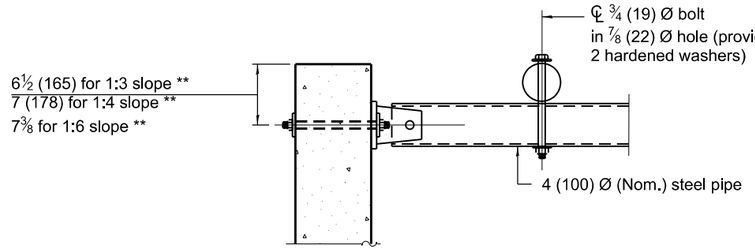
PLAN VIEW



VIEW A-A

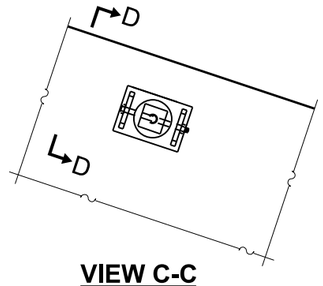


SECTION B-B



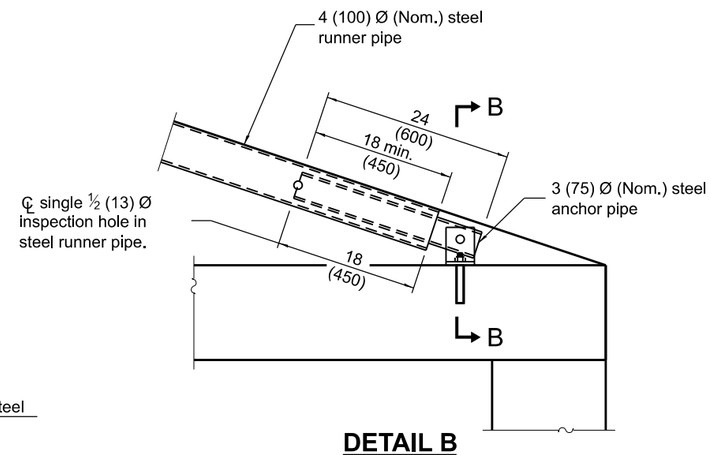
SECTION D-D

** Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6 (150) measured horizontally from any vertical joints necessary for construction of the culvert end section.

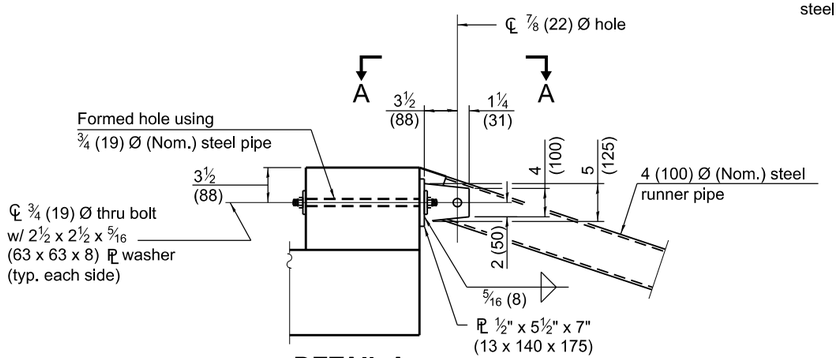


VIEW C-C

(See Detail A for dimensions and details not shown.)



DETAIL B



DETAIL A

GENERAL NOTES

This standard shall only be used on concrete end sections not skewed more than ± 15 degrees with roadway.

The minimum distance from the center of a hole to the free edge of a structural shape or plate shall be 1½ (38) unless noted otherwise.

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

Illinois Department of Transportation

APPROVED January 1, 2018
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED January 1, 2018
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-18	Corrected value in elliptical
	pipe table. Renamed standard.
4-1-16	Corrected typo.

TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTIONS

STANDARD 542311-07

PIPE-GRATE SCHEDULE FOR PIPE CULVERT END SECTIONS

Pipe I.D.	Slope of End Section								
	1:3			1:4			1:6		
	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe	Main Pipe No. / Length	Int. support No. / Length	Total Length of Pipe	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe
27 (675)	1 @ 9'-8" 1 @ (2.95 m)	N/A	9'-8" (2.95 m)	1 @ 12'-11" 1 @ (3.94 m)	N/A	12'-11" (3.94 m)	1 @ 19'-7" 1 @ (5.97 m)	N/A	19'-7" (5.97 m)
30 (750)	1 @ 11'-4" 1 @ (3.43 m)	N/A	11'-4" (3.43 m)	1 @ 14'-10" 1 @ (4.52 m)	N/A	14'-10" (4.52 m)	1 @ 21'-10" 1 @ (6.65 m)	1 @ 3'-6 1 @ 1.07 m)	25'-4" (7.72 m)
33 (825)	1 @ 12'-1" 1 @ (3.68 m)	N/A	12'-1" (3.68 m)	1 @ 15'-10" 1 @ (4.83 m)	N/A	15'-10" (4.83 m)	1 @ 23'-5" 1 @ (7.14 m)	1 @ 3'-7" 1 @ (1.09 m)	27'-0" (8.23 m)
36 (900)	1 @ 12'-10" 1 @ (3.91 m)	N/A	12'-10" (3.91 m)	1 @ 16'-10" 1 @ (5.13 m)	N/A	16'-10" (5.13 m)	1 @ 24'-11" 1 @ (7.59 m)	2 @ 3'-11" 2 @ (1.19 m)	32'-9" (9.97 m)
42 (1050)	2 @ 14'-9" 2 @ (4.50 m)	N/A	29'-6" (9.00 m)	2 @ 19'-3" 2 @ (5.87 m)	N/A	38'-6" (11.74 m)	2 @ 28'-6" 2 @ (8.69 m)	2 @ 4'-7" 2 @ (1.40 m)	66'-2" (20.18 m)
48 (1200)	2 @ 16'-4" 2 @ (4.98 m)	N/A	32'-8" (9.96 m)	2 @ 21'-4" 2 @ (6.50 m)	1 @ 5'-1" 1 @ (1.55 m)	47'-9" (14.55 m)	2 @ 31'-6" 2 @ (9.60 m)	2 @ 5'-1" 2 @ (1.55 m)	73'-2" (22.30 m)
54 (1350)	2 @ 18'-2" 2 @ (5.54 m)	N/A	36'-4" (11.08 m)	2 @ 23'-9" 2 @ (7.24 m)	2 @ 5'-9" 2 @ (1.75 m)	59'-0" (16.23 m)	2 @ 35'-1 2 @ (10.69 m)	4 @ 5'-9" 4 @ (1.75 m)	93'-2" (28.38 m)
60 (1500)	2 @ 19'-9" 2 @ (6.02 m)	N/A	39'-6" (12.04 m)	2 @ 25'-10" 2 @ (7.87 m)	3 @ 6'-3" 3 @ (1.91 m)	70'-5" (21.47 m)	2 @ 38'-1" 2 @ (11.61 m)	4 @ 6'-3" 4 @ (1.91 m)	101'-2" (30.86 m)
66 (1650)	2 @ 21'-7" 2 @ (6.58 m)	2 @ 6'-11" 2 @ (2.11 m)	57'-0" (17.38 m)	2 @ 28'-2" 2 @ (8.59 m)	3 @ 6'-11" 3 @ (2.11 m)	77'-1" (23.51 m)	2 @ 41'-11" 2 @ (12.78 m)	5 @ 6'-11" 5 @ (2.11 m)	127'-5" (36.11 m)
72 (1800)	3 @ 23'-2" 3 @ (7.06 m)	2 @ 7'-5" 2 @ (2.26 m)	84'-4" (25.70 m)	3 @ 30'-3" 3 @ (9.22 m)	3 @ 7'-5" 3 @ (2.26 m)	113'-0" (34.44 m)	3 @ 44'-8" 3 @ (13.61 m)	5 @ 7'-5" 5 @ (2.26 m)	171'-1" (52.13 m)
78 (1950)	3 @ 25'-0" 3 @ (7.62 m)	3 @ 8'-1" 3 @ (2.46 m)	99'-3" (30.24 m)	3 @ 32'-8" 3 @ (9.96 m)	4 @ 8'-1" 4 @ (2.46 m)	130'-4" (39.72 m)	3 @ 48'-3" 3 @ (14.71 m)	6 @ 8'-1" 6 @ (2.46 m)	193'-3" (58.89 m)
84 (2100)	3 @ 26'-7" 3 @ (8.10 m)	3 @ 8'-7" 3 @ (2.62 m)	105'-6" (32.16 m)	3 @ 34'-9" 3 @ (10.59 m)	4 @ 8'-7" 4 @ (2.62 m)	138'-7" (42.25 m)	3 @ 51'-3" 3 @ (15.62 m)	6 @ 8'-7" 6 @ (2.62 m)	206'-3" (62.58 m)

PIPE-GRATE SCHEDULE FOR ELLIPTICAL PIPE CULVERT END SECTIONS

Pipe I.D. (Equiv. Round)	Slope of End Section								
	1:3			1:4			1:6		
	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe
21 (525)	1 @ 8'-2" 1 @ (2.49 m)	N/A	8'-2" (2.49 m)	1 @ 11'-2" 1 @ (3.40 m)	N/A	11'-2" (3.40 m)	1 @ 17'-5" 1 @ (5.31 m)	N/A	17'-5" (5.31 m)
24 (600)	1 @ 8'-2" 1 @ (2.49 m)	N/A	8'-2" (2.49 m)	1 @ 11'-2" 1 @ (3.40 m)	N/A	11'-2" (3.40 m)	1 @ 17'-5" 1 @ (5.31 m)	N/A	17'-5" (5.31 m)
27 (675)	1 @ 8'-11" 1 @ (2.72 m)	N/A	8'-11" (2.72 m)	1 @ 12'-2" 1 @ (3.71 m)	N/A	12'-2" (3.71 m)	1 @ 18'-11" 1 @ (5.77 m)	N/A	18'-11" (5.77 m)
30 (750)	1 @ 9'-5" 1 @ (2.87 m)	N/A	9'-5" (2.87 m)	1 @ 12'-11" 1 @ (3.94 m)	N/A	12'-11" (3.94 m)	1 @ 19'-11" 1 @ (6.07 m)	N/A	19'-11" (6.07 m)
36 (900)	2 @ 11'-0" 2 @ (3.35 m)	N/A	22'-0" (6.70 m)	2 @ 14'-11" 2 @ (4.55 m)	N/A	29'-10" (9.10 m)	2 @ 22'-11" 2 @ (6.99 m)	1 @ 4'-7" 1 @ (1.40 m)	50'-5" (15.38 m)
42 (1050)	2 @ 12'-4" 2 @ (3.76 m)	N/A	24'-8" (7.52 m)	2 @ 16'-8" 2 @ (5.08 m)	N/A	33'-4" (10.16 m)	2 @ 25'-6" 2 @ (7.77 m)	2 @ 5'-5" 2 @ (1.65 m)	61'-10" (18.84 m)
48 (1200)	2 @ 13'-8" 2 @ (4.17 m)	N/A	27'-4" (8.34 m)	2 @ 18'-5" 2 @ (5.61 m)	N/A	36'-10" (11.22 m)	2 @ 28'-0" 2 @ (8.53 m)	3 @ 6'-1" 3 @ (1.85 m)	74'-3" (22.61 m)
54 (1350)	2 @ 15'-0" 2 @ (4.75 m)	N/A	30'-0" (9.50 m)	2 @ 20'-1" 2 @ (6.12 m)	2 @ 6'-9" 2 @ (2.06 m)	53'-8" (16.36 m)	2 @ 30'-7" 2 @ (9.32 m)	3 @ 6'-9" 3 @ (2.06 m)	81'-5" (24.82 m)
60 (1500)	3 @ 16'-7" 3 @ (5.05 m)	N/A	49'-9" (15.15 m)	3 @ 22'-2" 3 @ (6.76 m)	2 @ 7'-7" 2 @ (2.31 m)	81'-8" (24.90 m)	3 @ 33'-7" 3 @ (10.24 m)	4 @ 7'-7" 4 @ (2.31 m)	131'-1" (39.96 m)
66 (1650)	3 @ 17'-11" 3 @ (5.46 m)	N/A	53'-9" (16.38 m)	3 @ 23'-11" 3 @ (7.29 m)	2 @ 8'-3" 2 @ (2.51 m)	88'-3" (26.89 m)	3 @ 36'-2" 3 @ (11.02 m)	4 @ 8'-3" 4 @ (2.51 m)	141'-6" (43.10 m)
72 (1800)	3 @ 19'-6" 3 @ (5.94 m)	N/A	58'-6" (17.82 m)	3 @ 25'-11" 3 @ (7.90 m)	3 @ 8'-11" 3 @ (2.72 m)	104'-6" (31.86 m)	3 @ 39'-2" 3 @ (11.94 m)	4 @ 8'-11" 4 @ (2.72 m)	153'-2" (46.70 m)

Illinois Department of Transportation

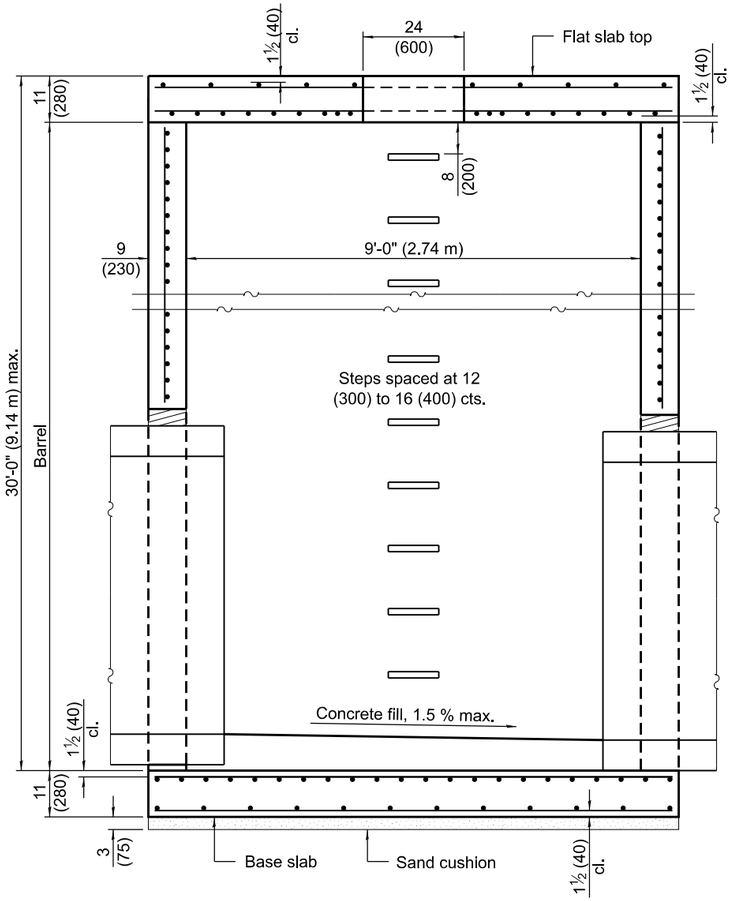
APPROVED January 1, 2018
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED January 1, 2018
ENGINEER OF DESIGN AND ENVIRONMENT

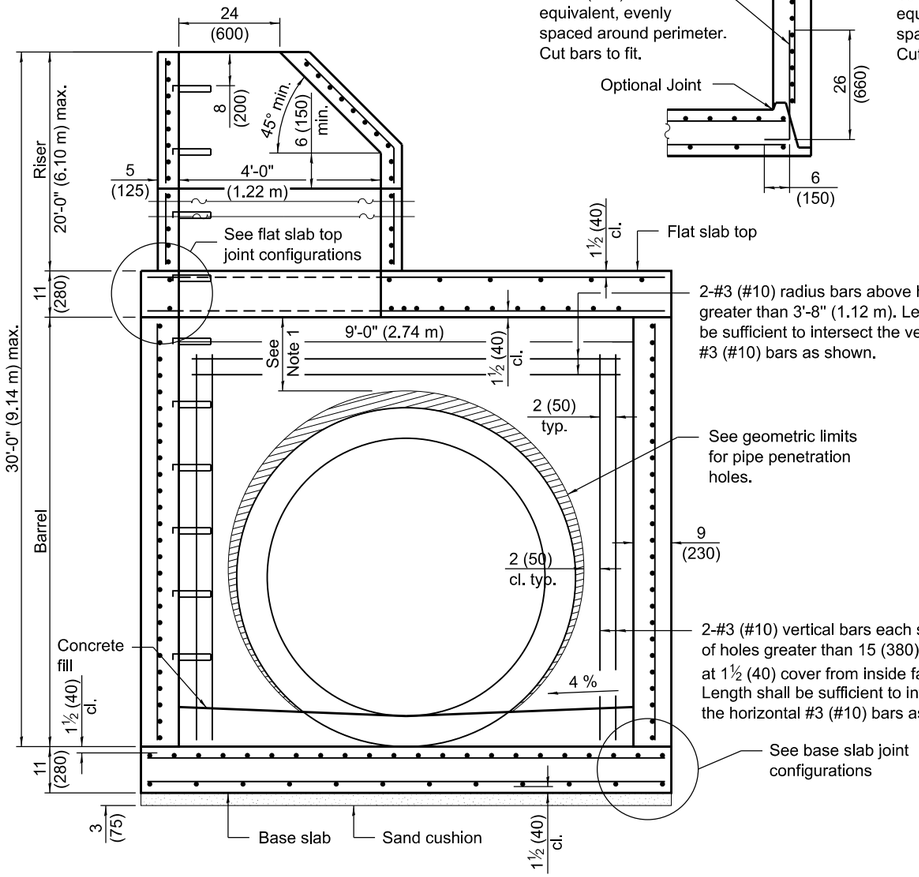
ISSUED 1-1-97

TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTIONS

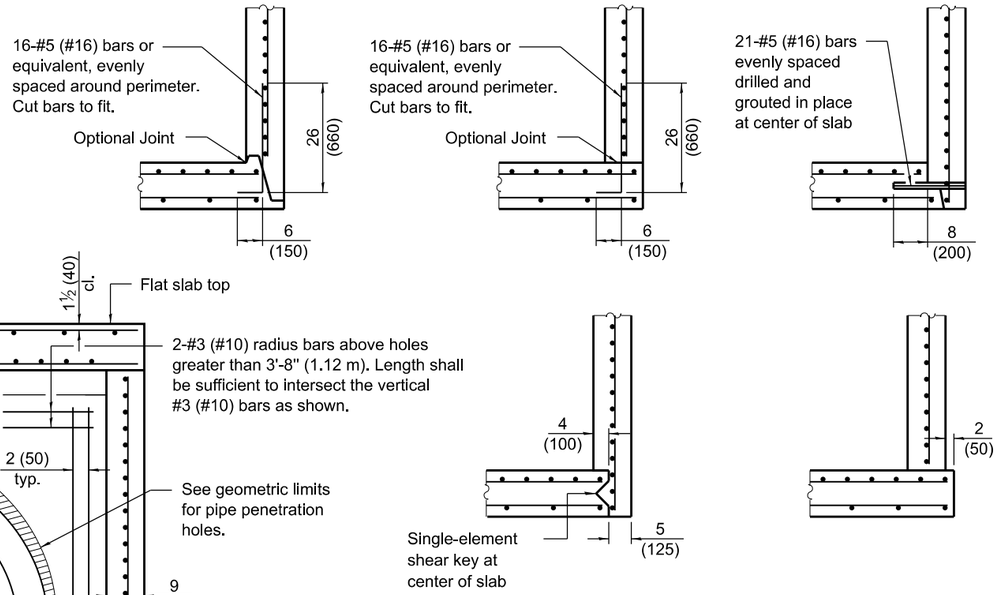
STANDARD 542311-07



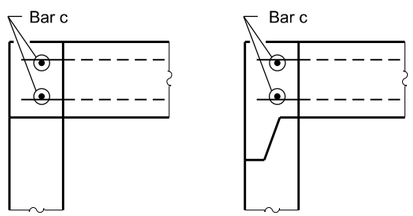
SECTION PARALLEL TO PIPE
(Without conical top riser)



SECTION PERPENDICULAR TO PIPE
(With conical top riser)



BASE SLAB JOINT CONFIGURATIONS



FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

Note 1: A minimum of 12 (300) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 3'-8" (1.12 m).

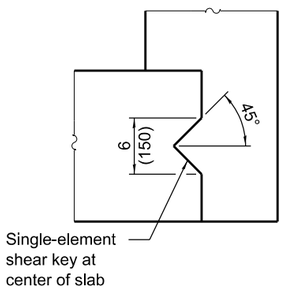
Note 2: A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).

Note 3: A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.

Note 4: Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.

Note 5: The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).

Note 6: Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.



SHEAR KEY GEOMETRY
(Reinforcement not shown for clarity)

GENERAL NOTES

Pipe holes shall be formed to facilitate proper placement of hole reinforcement.

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

See Standard 602701 for details of manhole steps.

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

Illinois Department of Transportation

APPROVED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

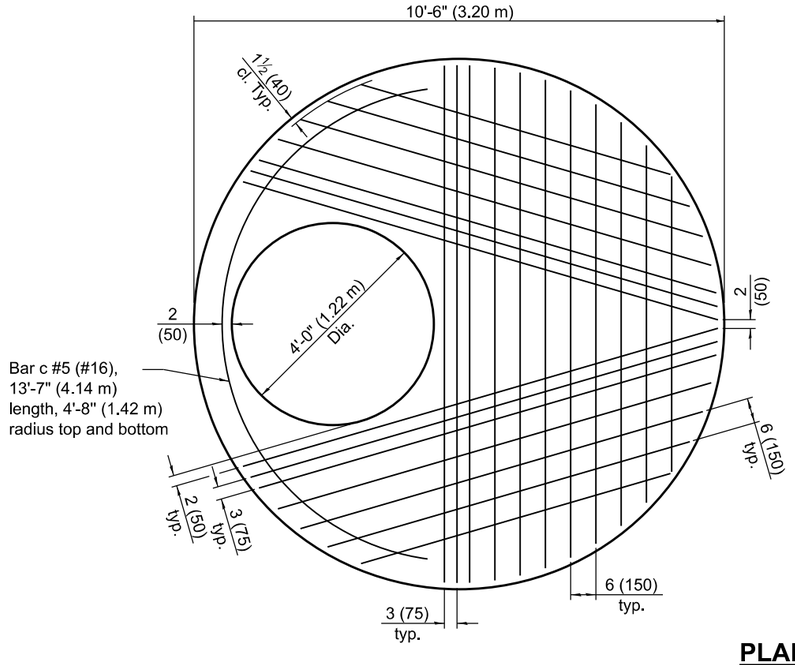
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

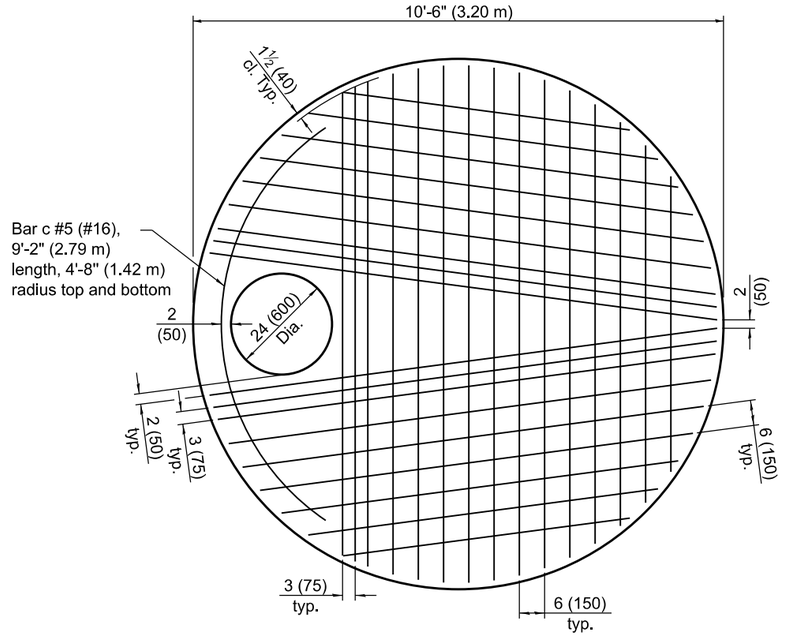
ISSUED 4-1-06

DATE	REVISIONS
1-1-21	Revised Note 1 and lifting hole
	general note.
3-1-19	Moved wall reinforcement from
	inside face to middle.

PRECAST MANHOLE TYPE A
9' (2.74 m) DIAMETER

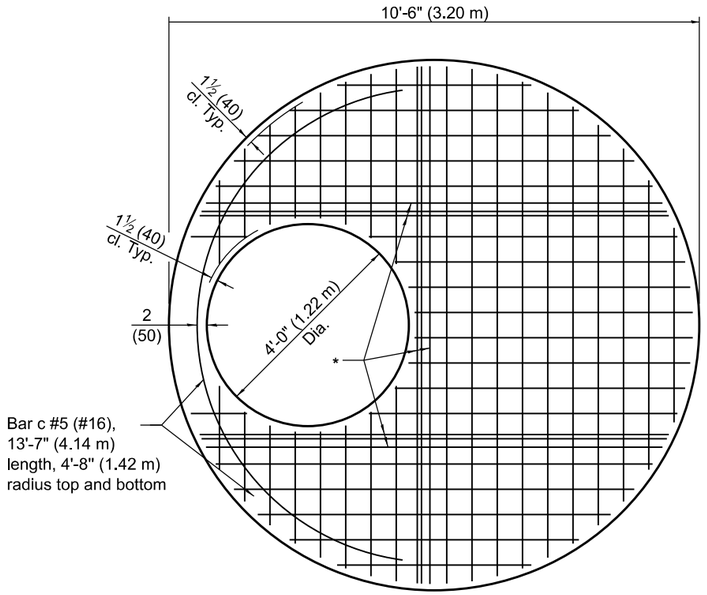
STANDARD 602421-09

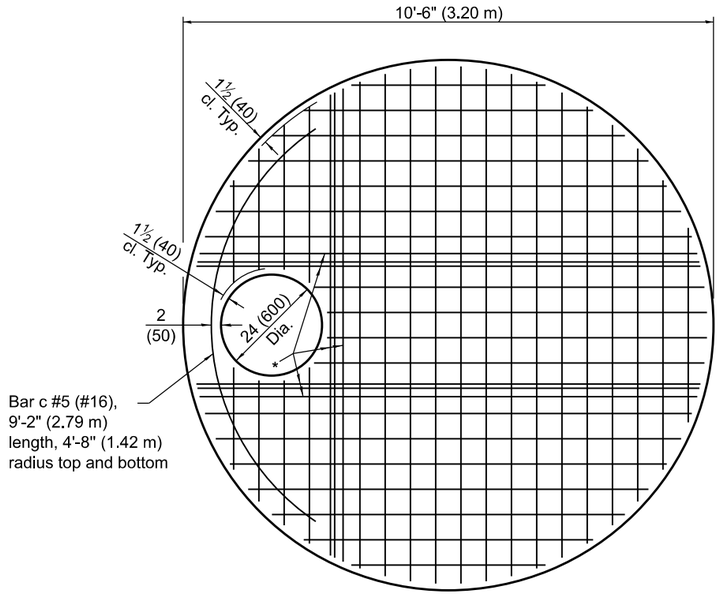




PLAN - FLAT SLAB TOP

(Showing layout of bottom reinforcement bars and c bars)





PLAN - FLAT SLAB TOP

(Showing layout of welded wire reinforcement and c bars)
WWR not permitted for riser heights > 10' (3.05 m).

* #6 (#19) bars bottom. Bundle first bar with closest WWR bar to the opening and place second bar ±3 (75) away.

Illinois Department of Transportation

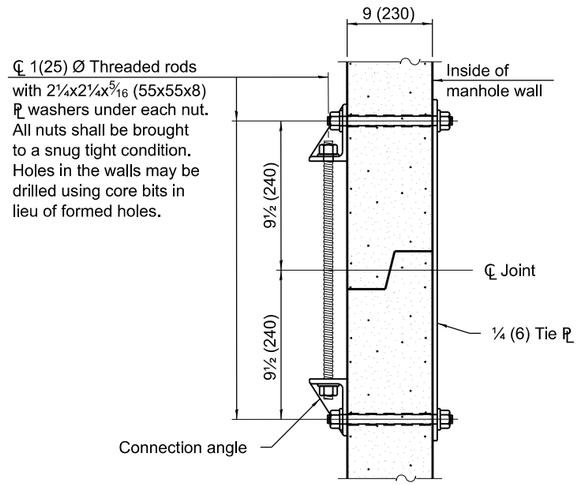
APPROVED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

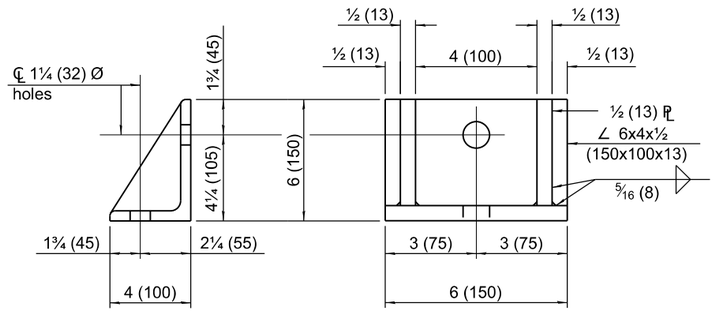
ISSUED 4-1-06

PRECAST MANHOLE TYPE A
9' (2.74 m) DIAMETER

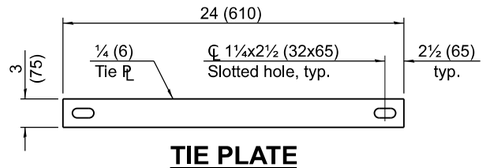
STANDARD 602421-09



JOINT SPLICE



CONNECTION ANGLE



TIE PLATE

FLAT SLAB TOP REINFORCEMENT

Location	Riser Height (RH)	WWR (each direction)		Rebar (each direction except as noted)		
		A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Top Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#3 or #4 (#10) (#13)
Bottom Mat	RH ≤ 10 ft. (3.05 m)	** 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)
	RH > 10 ft. (3.05 m)	WWR not permitted				#8 (#25)

** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar	
		A_s (min.)	Spacing (max.)
4 ft. (1.22 m) Ø Riser	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
9 ft. (2.74 m) Ø Barrel	Circumferential	0.27 sq. in./ft. (572 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)

BASE SLAB REINFORCEMENT

Location	Riser Height (RH)/ Total Height (TH)	WWR or Rebar (each direction)	
		A_s (min.)	Spacing (max.)
Top Mat	RH ≤ 10 ft. (3.05 m) & TH ≤ 20 ft. (6.10 m)	0.44 sq. in./ft. (931 sq. mm/m)	6 (150)
	RH > 10 ft. (3.05 m) or TH > 20 ft. (6.10 m)	0.72 sq. in./ft. (1524 sq. mm/m)	6 (150)
Bottom Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)

Illinois Department of Transportation

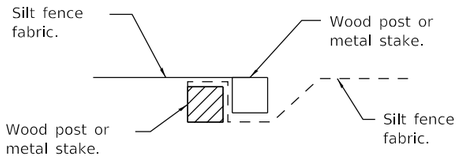
APPROVED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 4-1-06

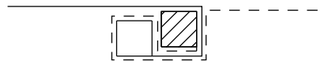
PRECAST MANHOLE TYPE A 9' (2.74 m) DIAMETER

STANDARD 602421-09



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

STEP 1

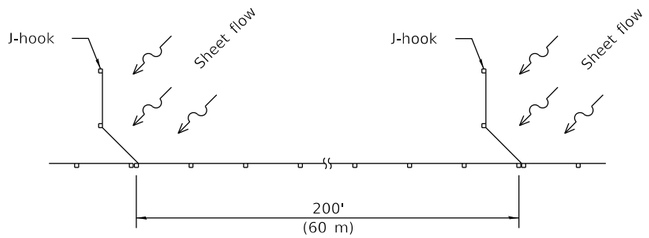


Rotate posts (stakes) together 180° clockwise and drive both posts (stakes) 18 (450) into ground.

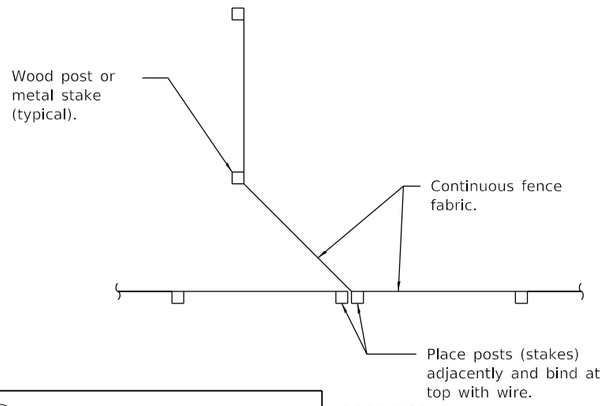
STEP 2

ATTACHING TWO SILT FILTER FENCES

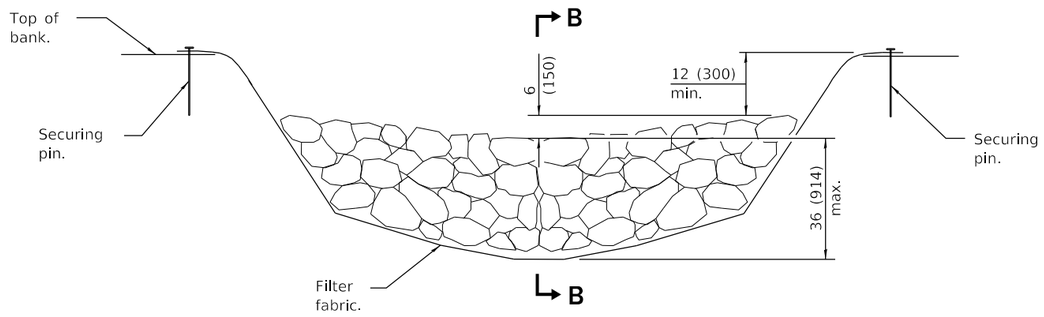
(Not applicable for J-hooks)



SILT FILTER J-HOOK PLACEMENT

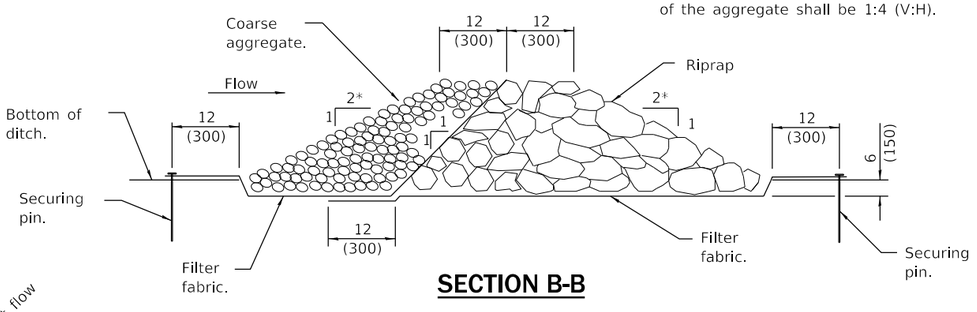


J-HOOK



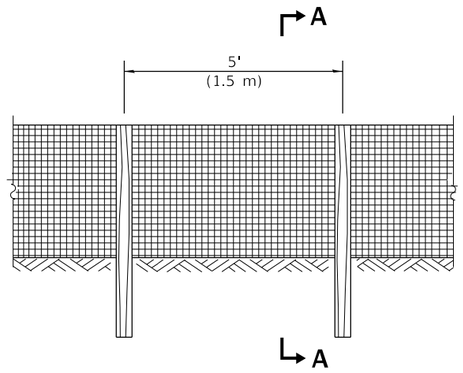
ELEVATION

* 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).



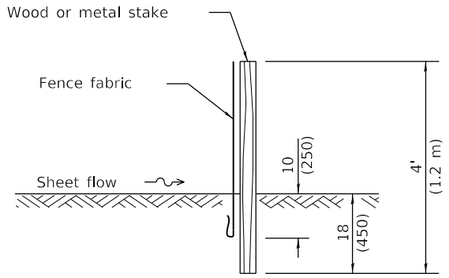
SECTION B-B

AGGREGATE DITCH CHECK

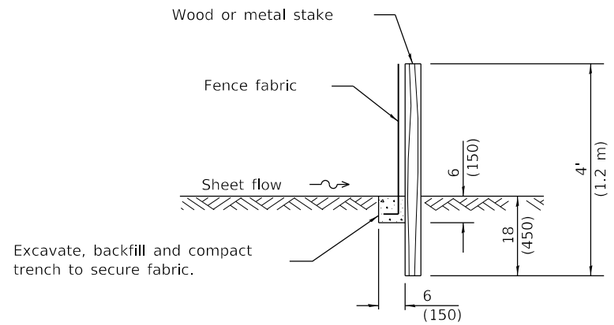


ELEVATION

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

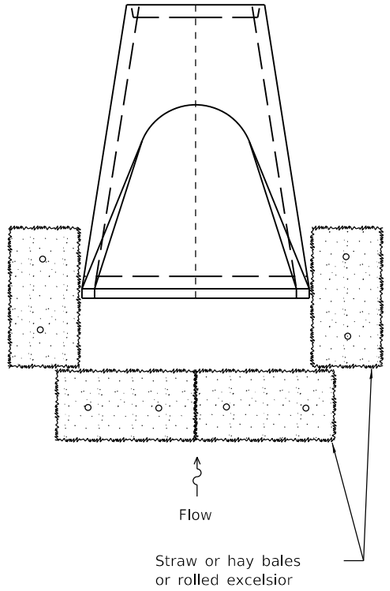
ISSUED 1-1-97

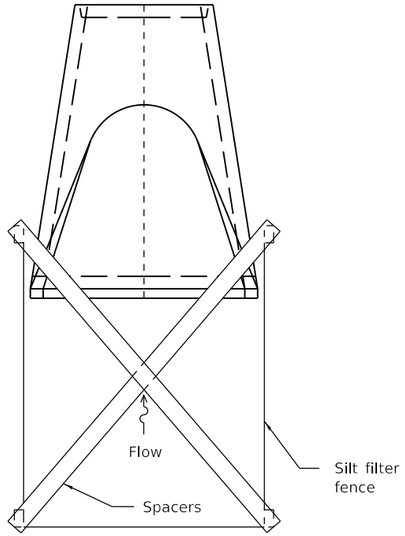
DATE	REVISIONS
1-1-13	Corrected notation for
	flowline (℄) on SEDIMENT
	BASIN ELEVATION.
1-1-12	Omitted hay/straw perimeter
	barrier. Added SLICE METHOD
	to SECTION A-A.

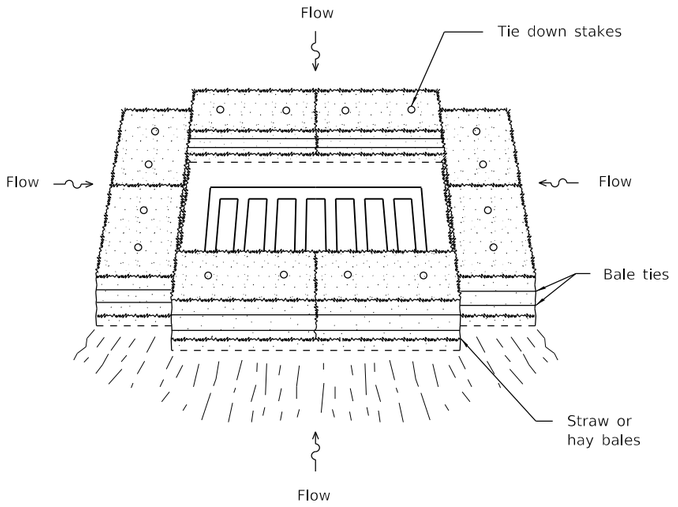
TEMPORARY EROSION CONTROL SYSTEMS

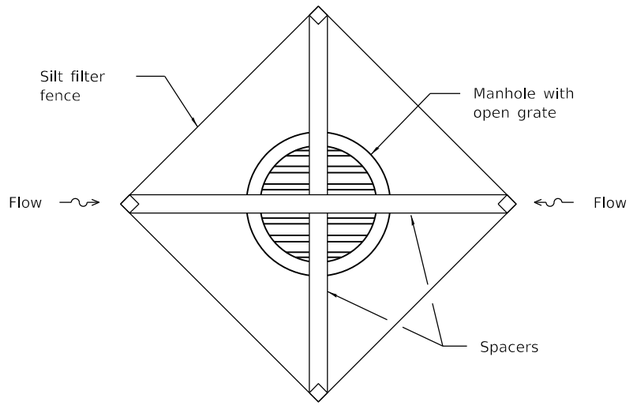
(Sheet 1 of 2)

STANDARD 280001-07

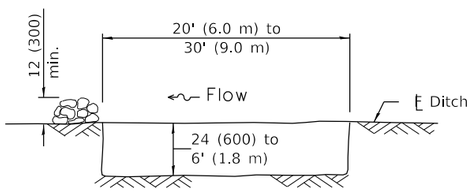






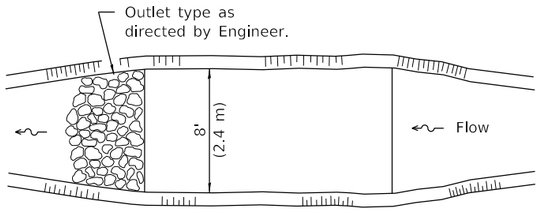


INLET AND PIPE PROTECTION



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

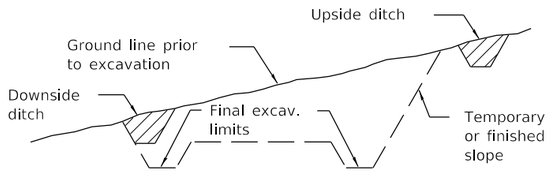
ELEVATION



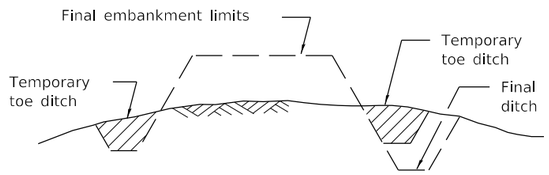
The long dimension should be parallel with the
direction of the flow. Accumulated silt shall be
removed anytime the basins become 75% filled.

PLAN

SEDIMENT BASIN



TYPICAL CUT CROSS-SECTION



TYPICAL FILL CROSS-SECTION

**TEMPORARY DITCHES FOR
CUT & FILL SECTIONS**

Illinois Department of Transportation

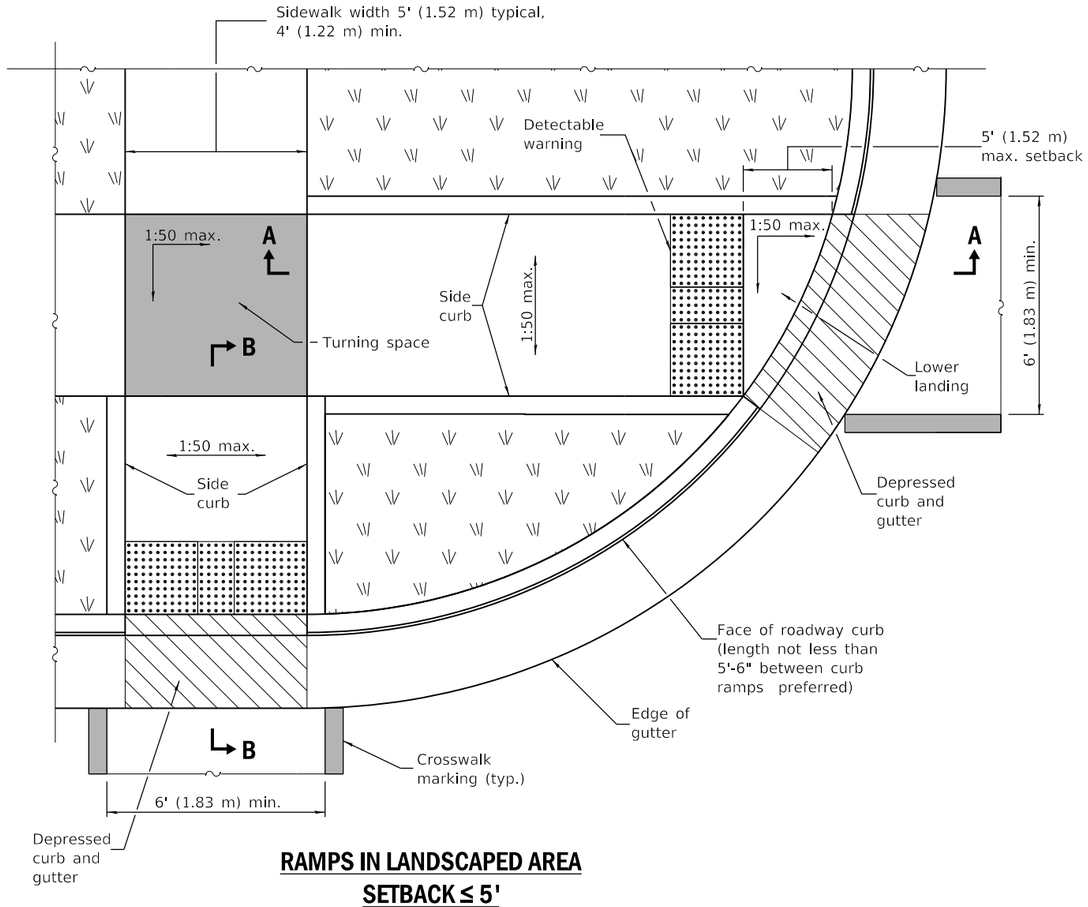
PASSED January 1, 2013
Michael Brand
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2013
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

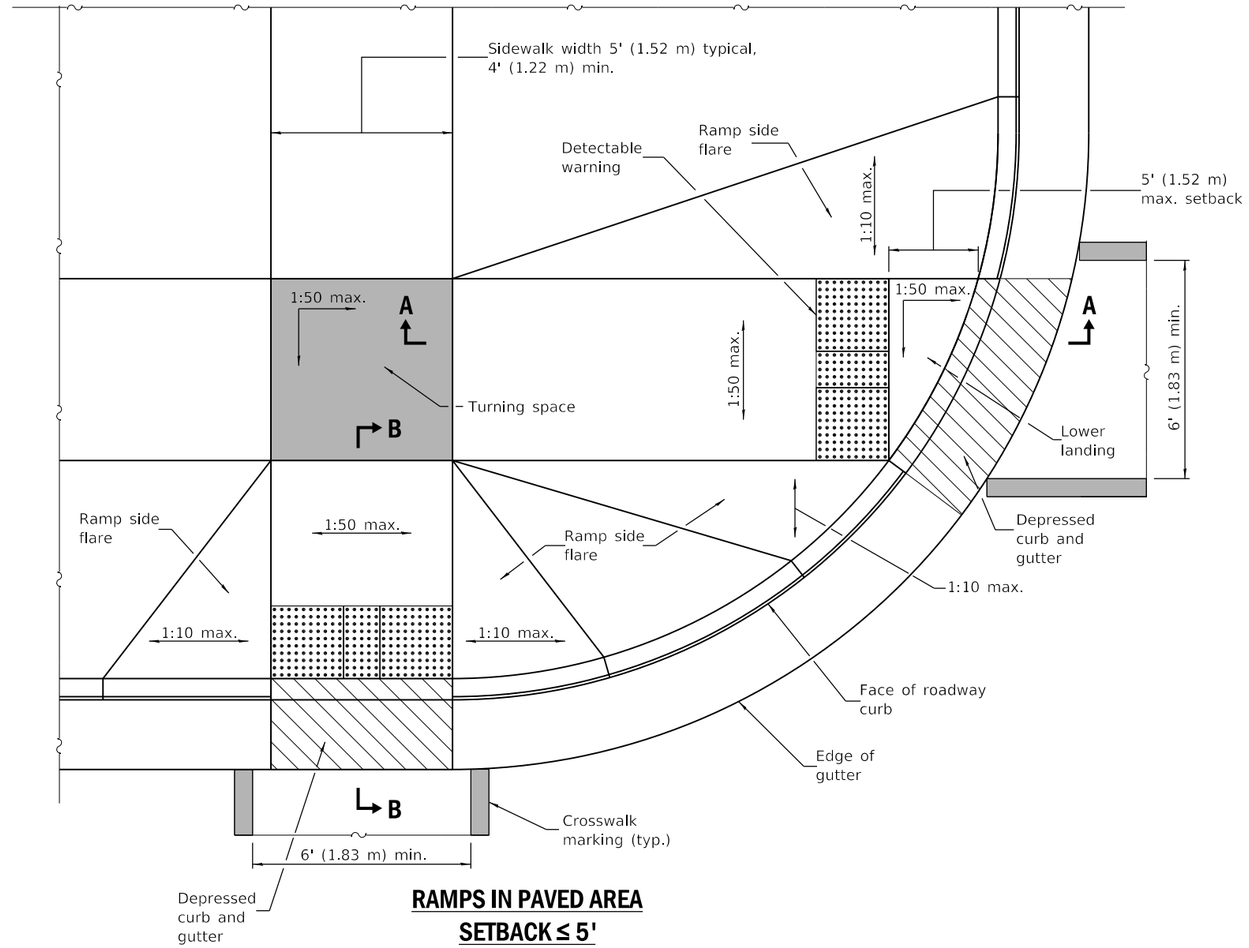
TEMPORARY EROSION CONTROL SYSTEMS

(Sheet 2 of 2)

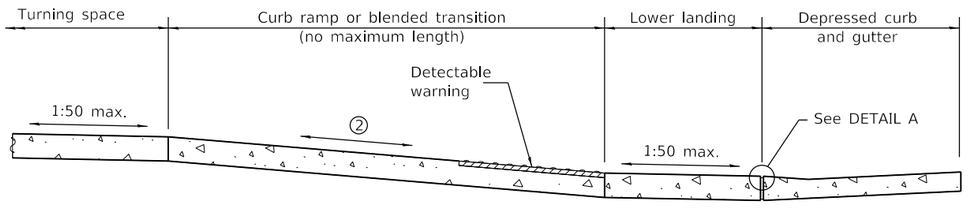
STANDARD 280001-07



RAMPS IN LANDSCAPED AREA
SETBACK ≤ 5'

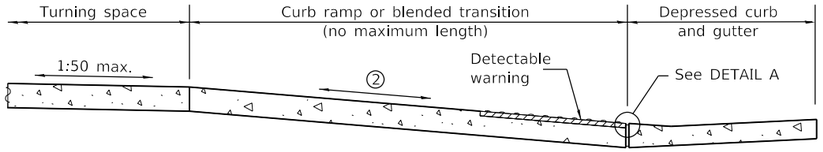


RAMPS IN PAVED AREA
SETBACK ≤ 5'



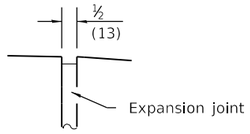
SECTION A-A

② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.

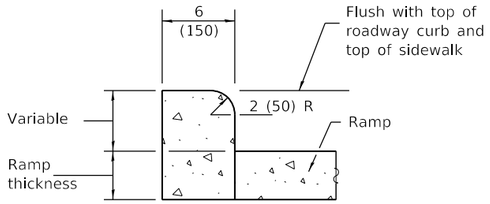


SECTION B-B

② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



DETAIL A



SIDE CURB DETAIL

Illinois Department of Transportation

PASSED January 1, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

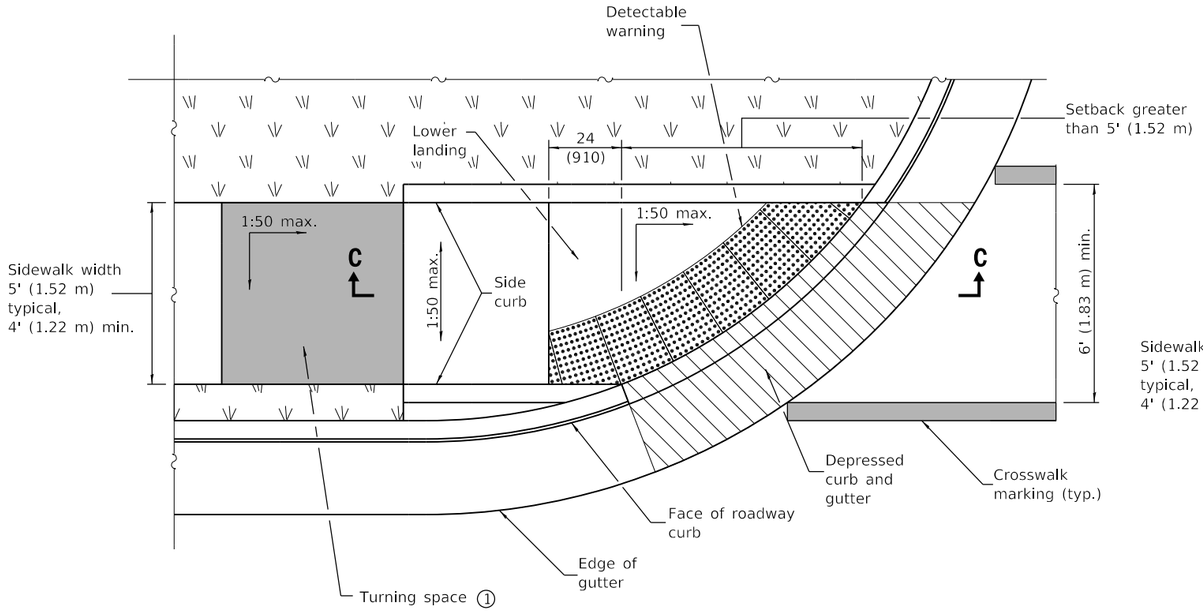
See Sheet 2 for GENERAL NOTES.

DATE	REVISIONS
1-1-19	Removed "15-foot rule", added
	"Blended transitions" and placement
	tolerances for detectable warnings.
1-1-18	Omitted diagonal slope at
	turning spaces and lower
	landings.

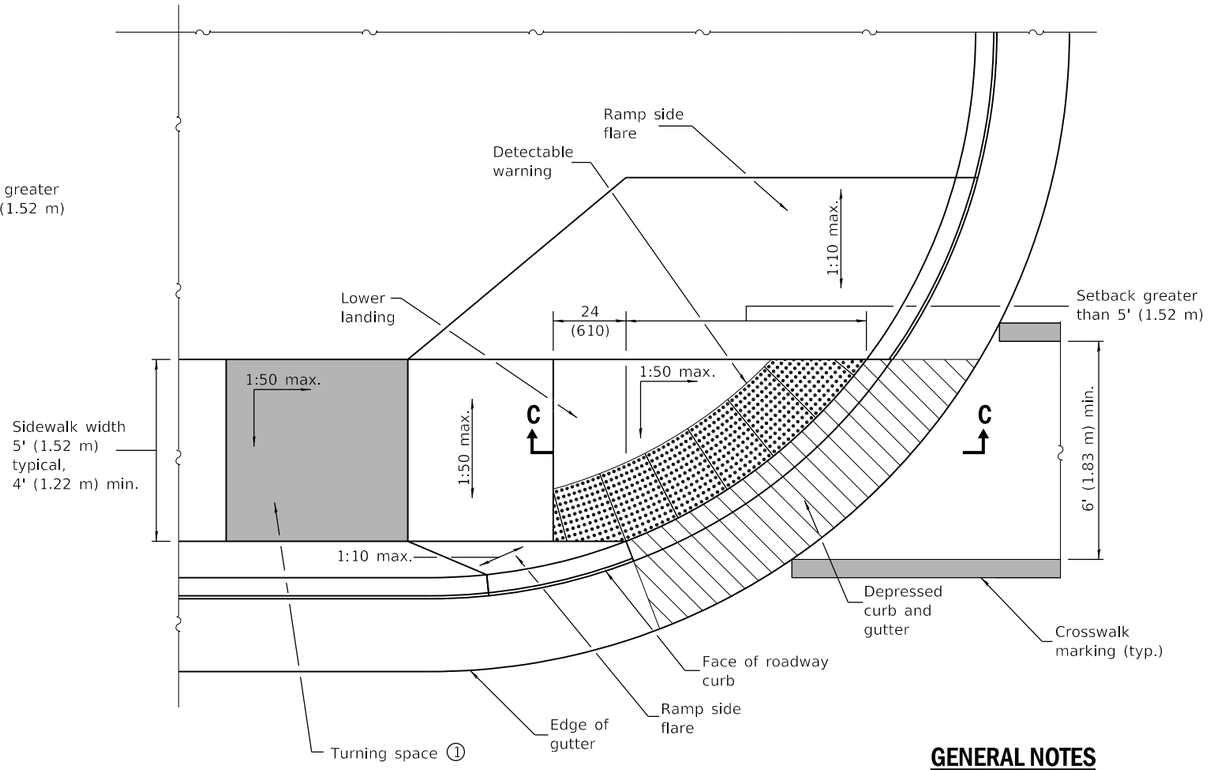
PERPENDICULAR CURB RAMPS FOR SIDEWALKS

(Sheet 1 of 2)

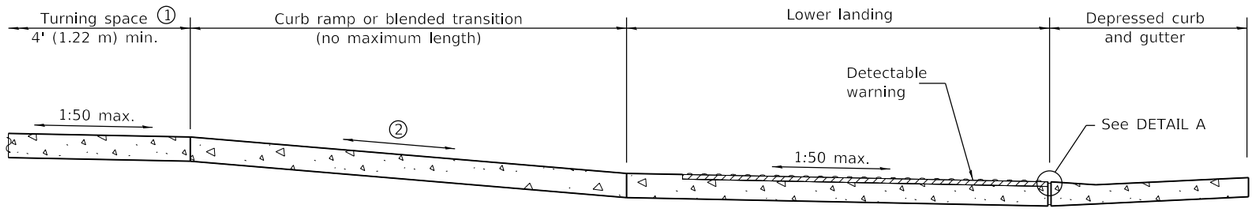
STANDARD 424001-11



RAMP IN LANDSCAPED AREA SETBACK > 5'



RAMP IN PAVED AREA SETBACK > 5'



SECTION C-C

① This turning space not required for blended transitions.

② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.

GENERAL NOTES

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

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

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

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

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, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

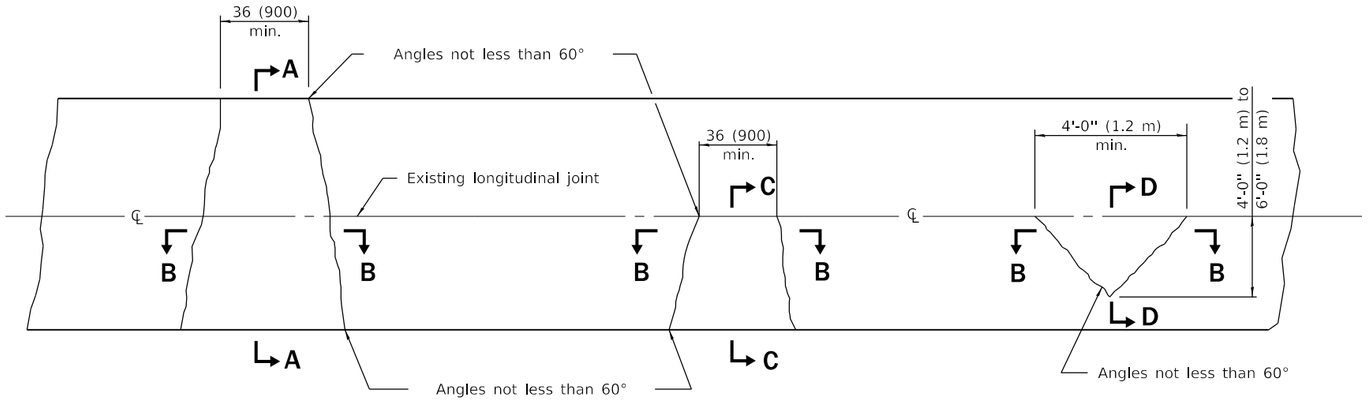
ISSUED 1-1-97

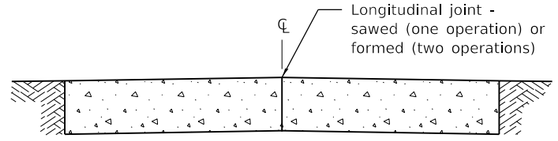
PERPENDICULAR CURB RAMPS FOR SIDEWALKS

(Sheet 2 of 2)

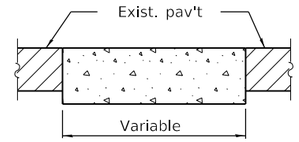
STANDARD 424001-11

CLASS C

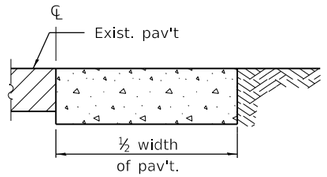




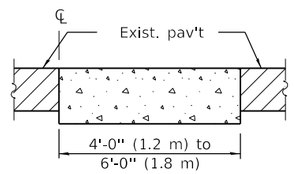
SECTION A-A



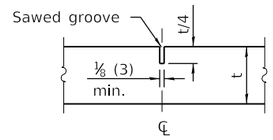
SECTION B-B



SECTION C-C



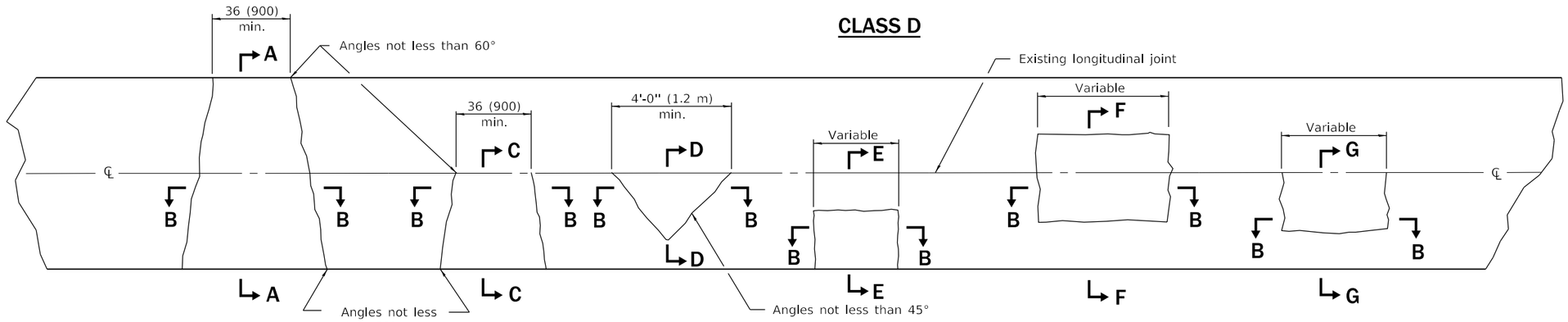
SECTION D-D

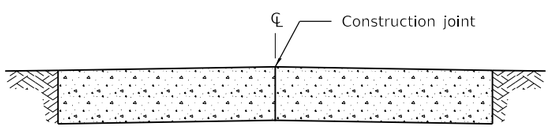


DETAIL OF SAWED CONTRACTION JOINT

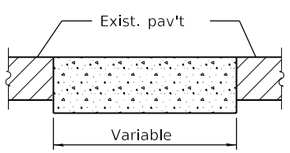
Note:
Longitudinal joints shall be as detailed on Standard 420001, except tie bars are not required for patches 20'-0" (6.0 m) or less in length.

CLASS D

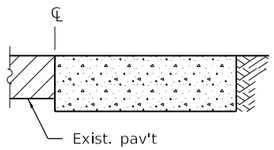




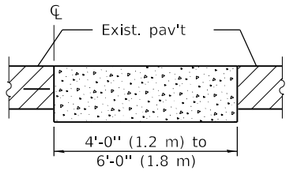
SECTION A-A
(Built in two operations)



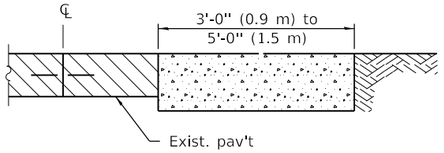
SECTION B-B



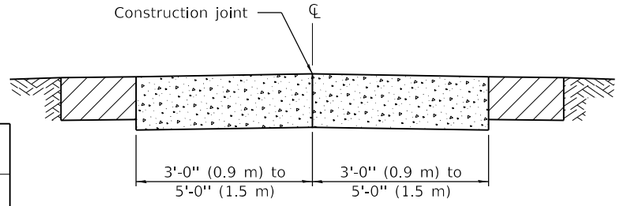
SECTION C-C



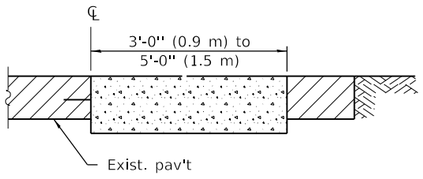
SECTION D-D



SECTION E-E



SECTION F-F
(Built in two operations)



SECTION G-G

GENERAL NOTES

Existing tie bars shall be either cut or removed. Marginal bars shall be cut.

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

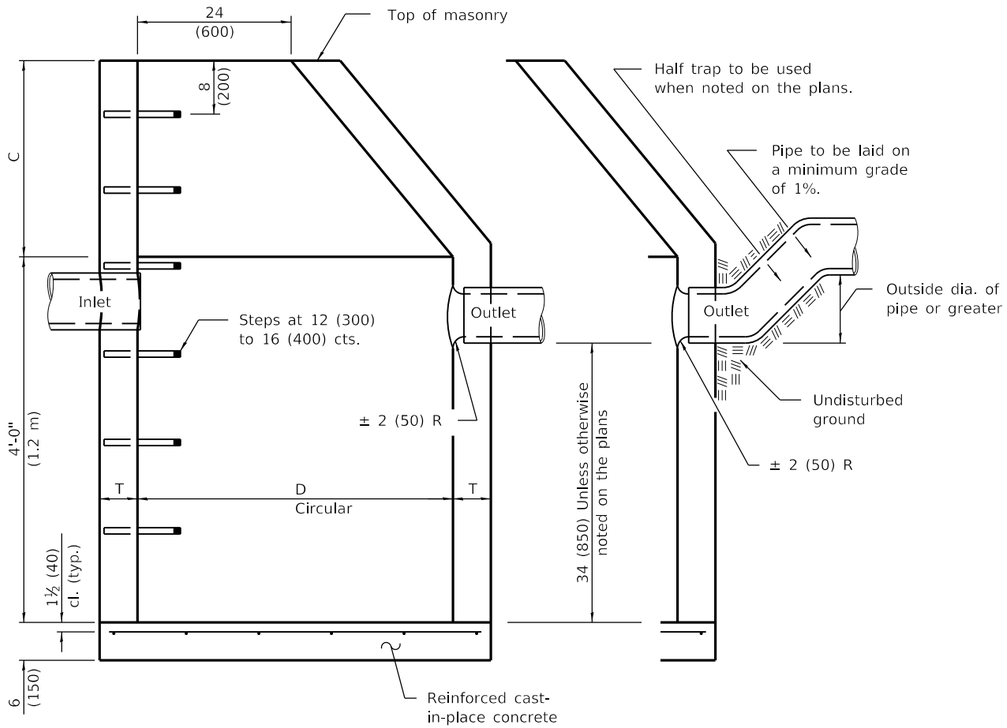
Illinois Department of Transportation

PASSED January 1, 2008
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2008
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-97

DATE	REVISIONS
1-1-08	Switched units to
	English (metric).
1-1-07	Revised Note for
	Class C patches.

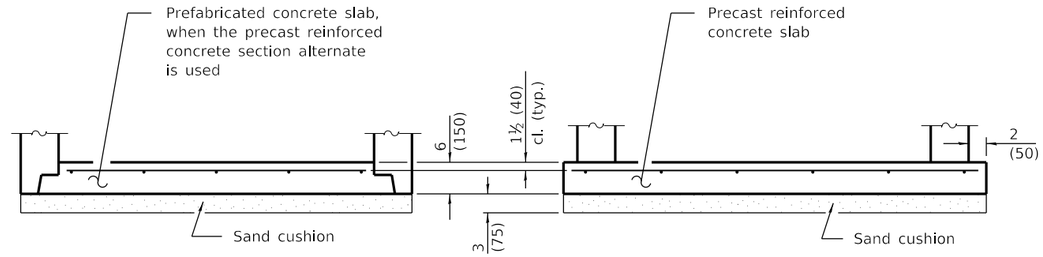
CLASS C and D PATCHES

STANDARD 442201-03



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
Michael Brand
ENGINEER OF POLICY AND PROCEDURES

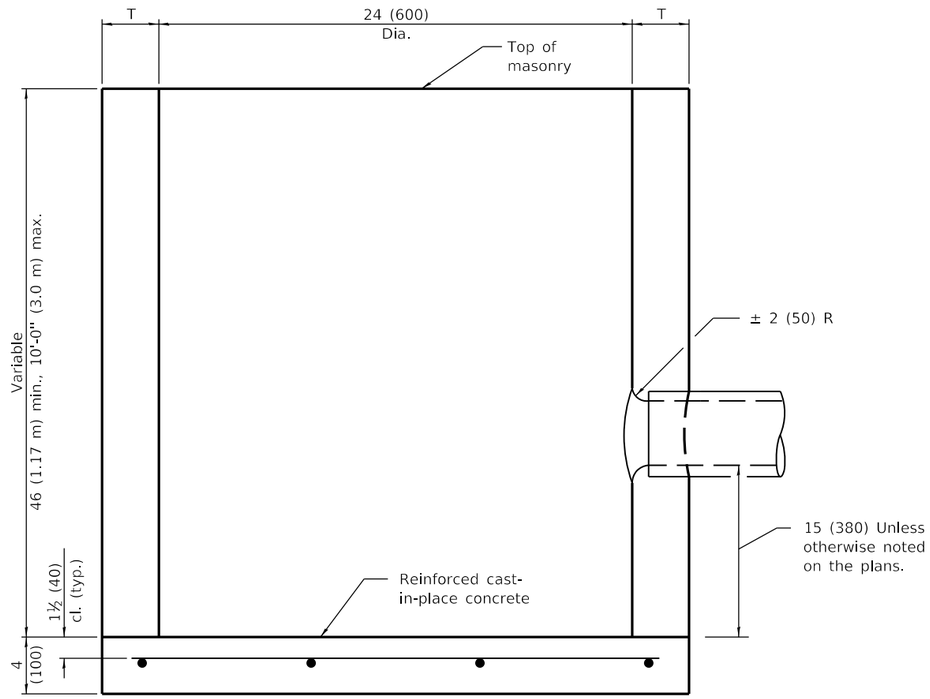
APPROVED January 1, 2011
Scott Schaefer
ENGINEER OF DESIGN AND ENVIRONMENT

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).

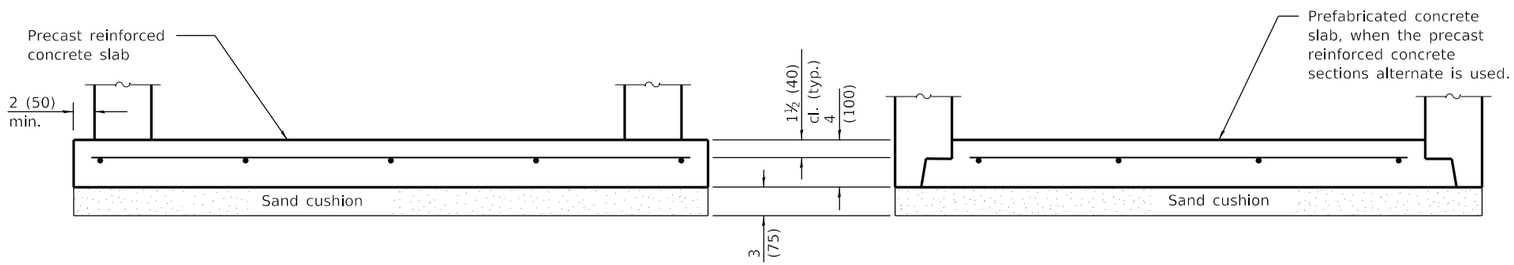
CATCH BASIN TYPE A

STANDARD 602001-02



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)

ELEVATION



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
Michael Brand
ENGINEER OF POLICY AND PROCEDURES

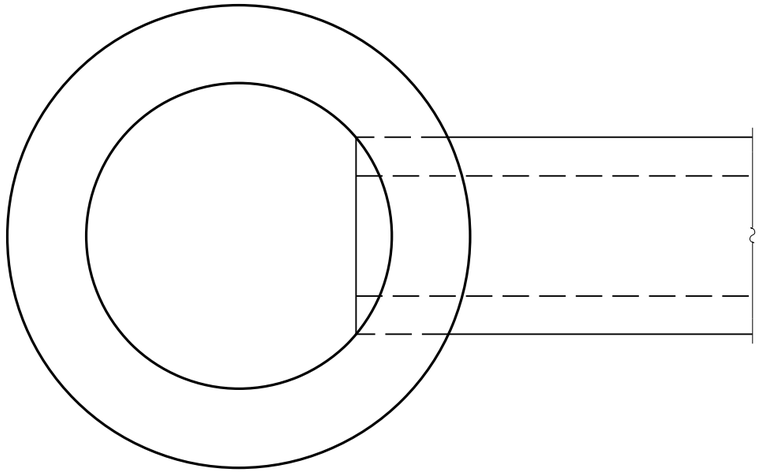
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

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).

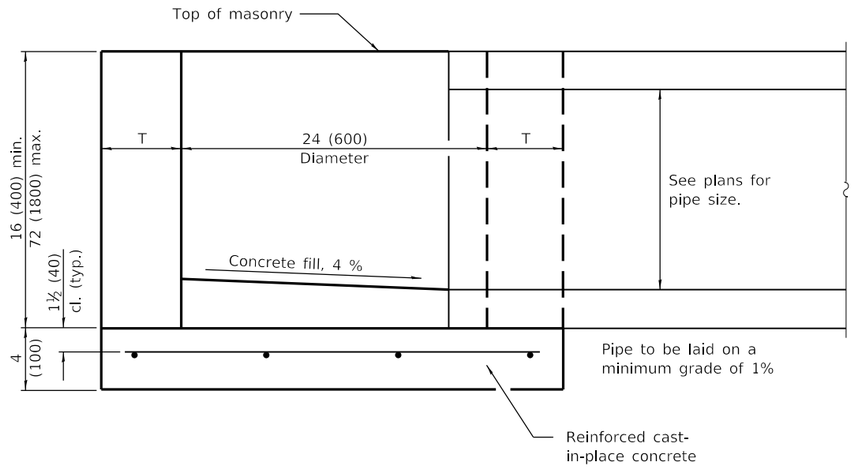
CATCH BASIN TYPE C

STANDARD 602011-02

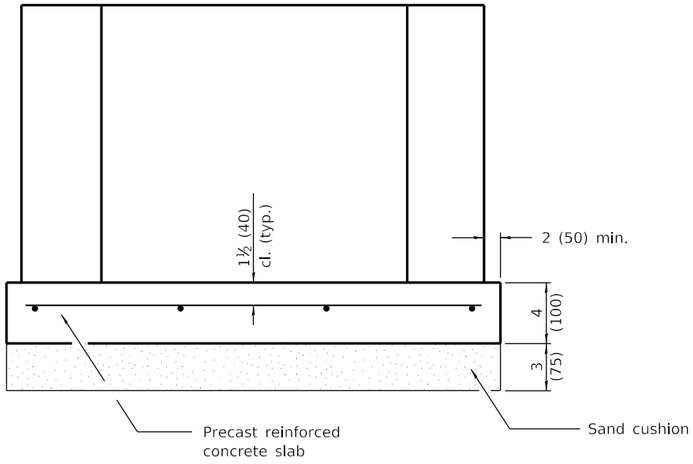


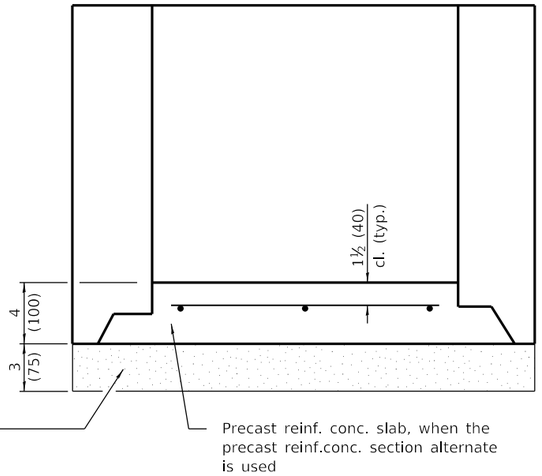
PLAN

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)



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

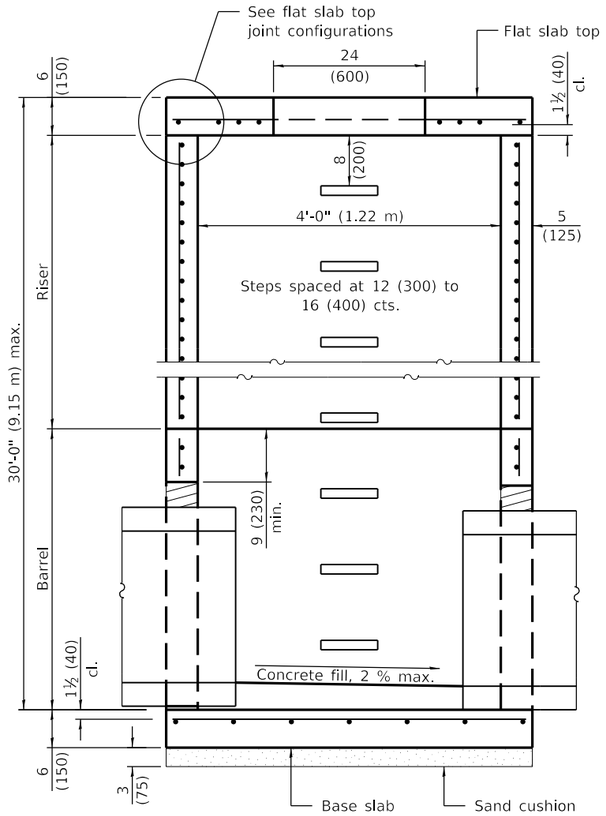
APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT

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.

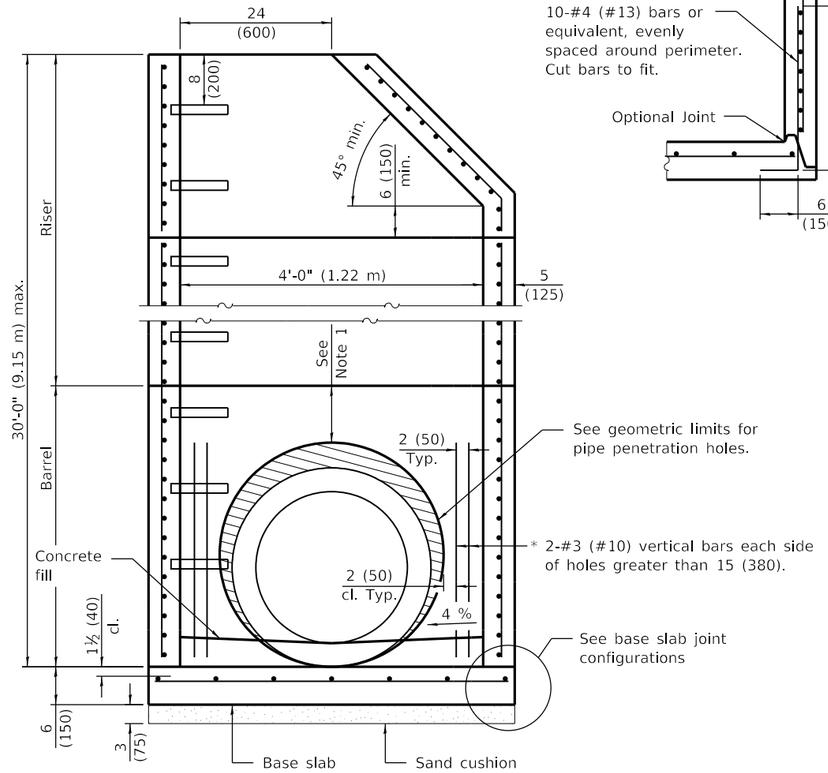
INLET - TYPE A

STANDARD 602301-04



SECTION PARALLEL TO PIPE

(Without conical top riser)



SECTION PERPENDICULAR TO PIPE

(With conical top riser)

* As an alternate, the barrel wall reinforcement may be reduced to riser wall reinforcement with #3 (#10) bars placed around the pipe penetration holes as shown. This option may be utilized when the pipe penetration holes are formed as opposed to cored.

FLAT SLAB TOP JOINT CONFIGURATIONS

(Shown at access hole)

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

Note 1: A minimum of 9 (230) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 24 (600).

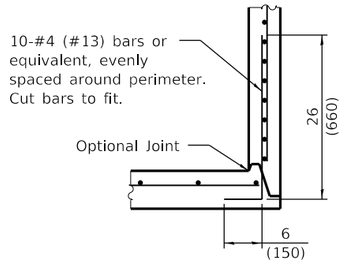
Note 2: A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).

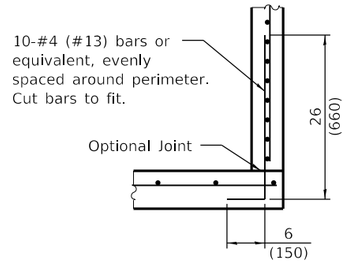
Note 3: A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.

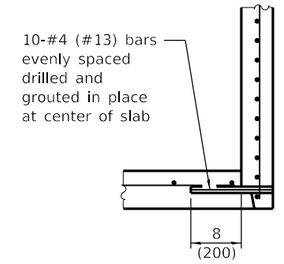
Note 4: Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.

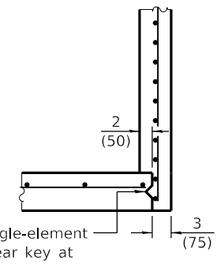
Note 5: The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).

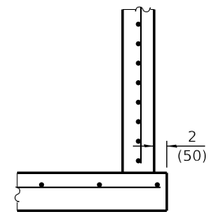
Note 6: Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.



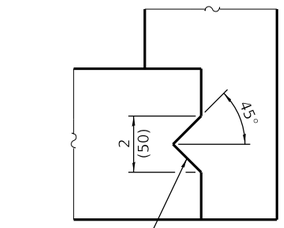








BASE SLAB JOINT CONFIGURATIONS



SHEAR KEY GEOMETRY

(Reinforcement not shown for clarity)

GENERAL NOTES

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

See Standard 602701 for details of manhole steps.

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

Illinois Department of Transportation

PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

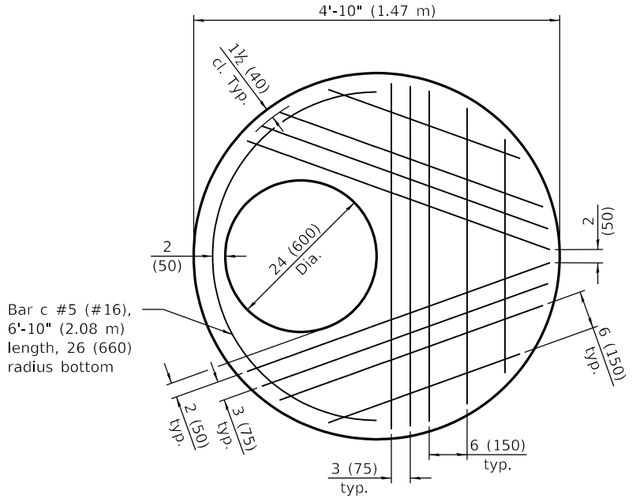
ISSUED 1-1-97

DATE	REVISIONS
1-1-21	Revised Note 1 and lifting hole
	general note.
3-1-19	Moved wall reinforcement from
	inside face to middle.

PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER

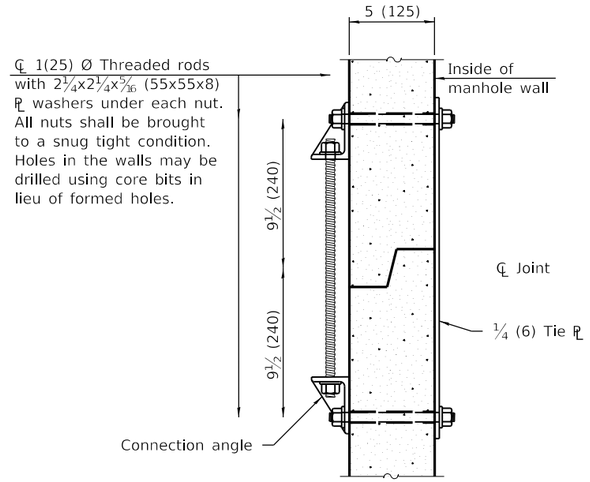
(Sheet 1 of 2)

STANDARD 602401-07

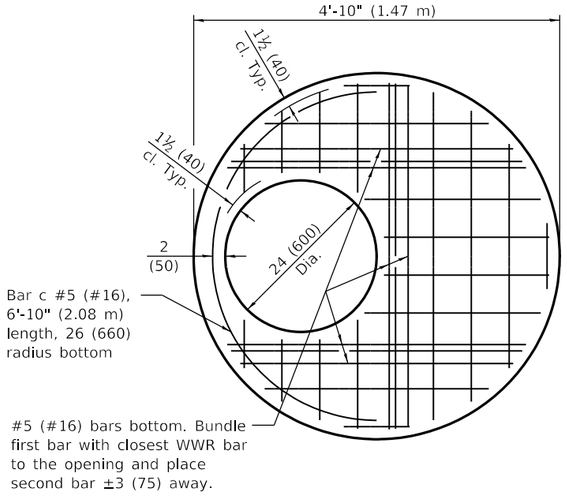


PLAN - FLAT SLAB TOP

(Showing layout of reinforcement bars and c bars)

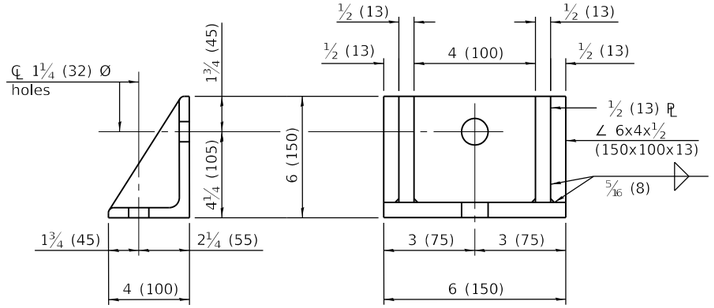


JOINT SPLICE

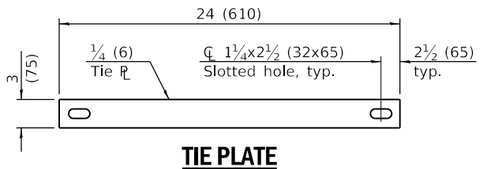


PLAN - FLAT SLAB TOP

(Showing layout of welded wire reinforcement and c bars)



CONNECTION ANGLE



TIE PLATE

FLAT SLAB TOP REINFORCEMENT

Location	WWR (each direction)		Rebar		
	A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Bottom Mat	** 0.62 sq. in./ft. (1312 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#5 (#16)

** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar	
		A_s (min.)	Spacing (max.)
Riser	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
Barrel	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.16 sq. in./ft. (339 sq. mm/m)	4 (100)

BASE SLAB REINFORCEMENT

Location	Total Height	WWR or Rebar (each direction)	
		A_s (min.)	Spacing (max.)
Top Mat	≤ 20 ft. (6.10 m)	0.24 sq. in./ft. (508 sq. mm/m)	10 (250)
	> 20 ft. (6.10 m)	0.24 sq. in./ft. (508 sq. mm/m)	10 (250)

Illinois Department of Transportation

PASSED January 1, 2021

ENGINEER OF POLICY AND PROCEDURES

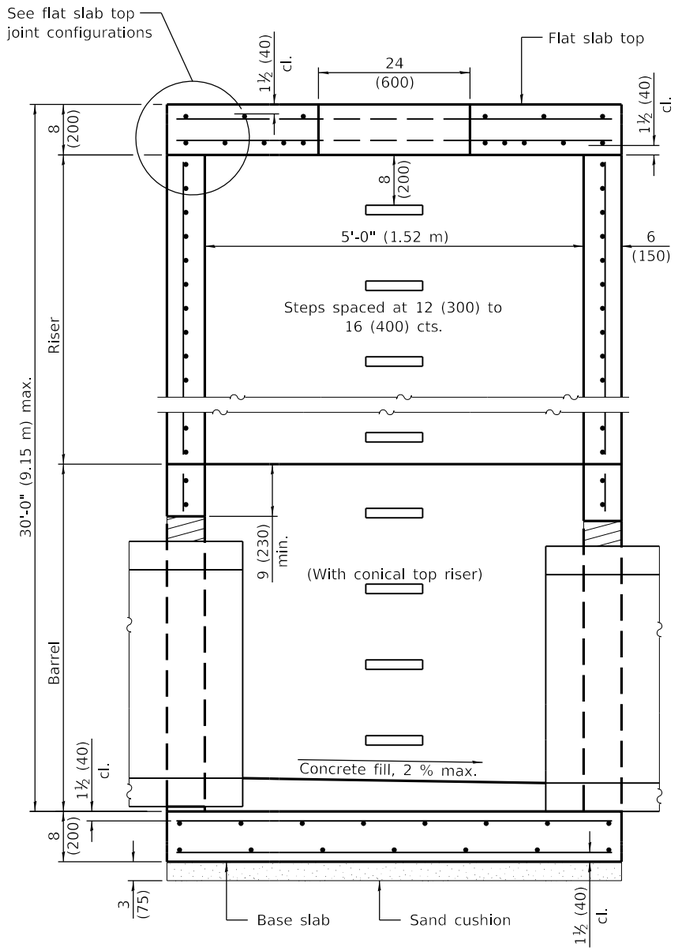
APPROVED January 1, 2021

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

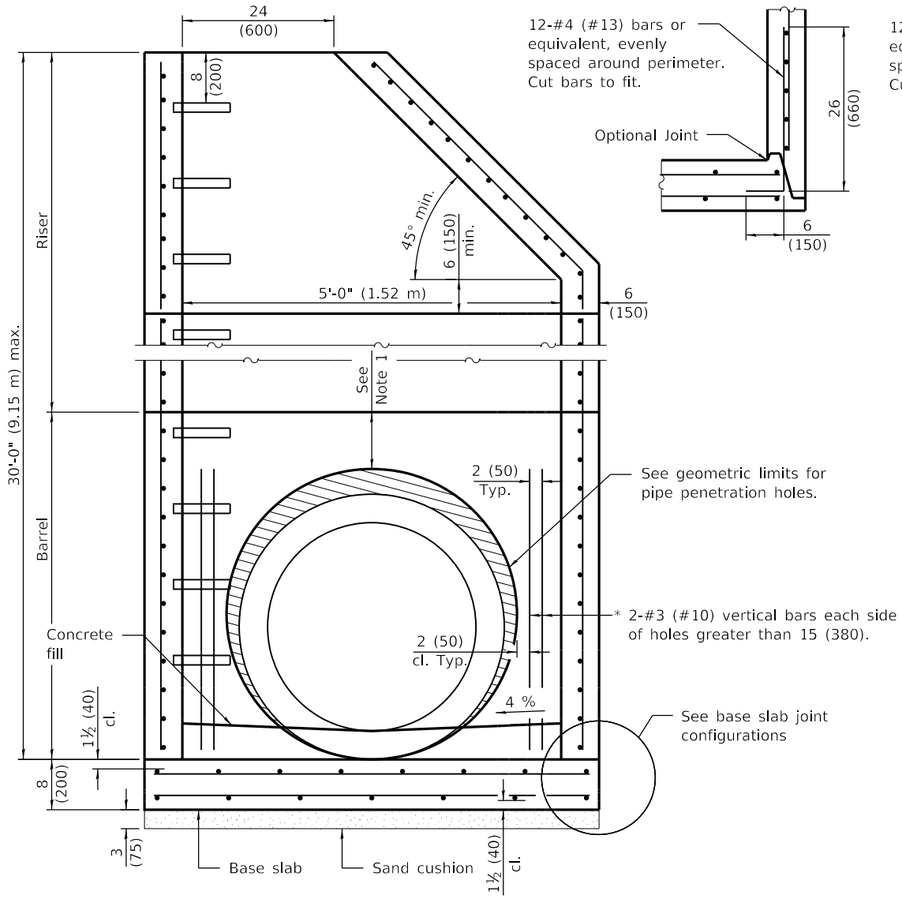
PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER

STANDARD 602401-07



SECTION PARALLEL TO PIPE

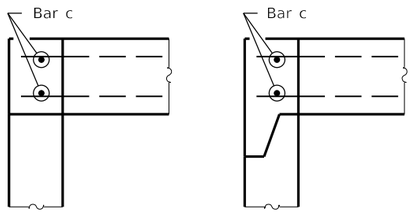
(Without conical top riser)



SECTION PERPENDICULAR TO PIPE

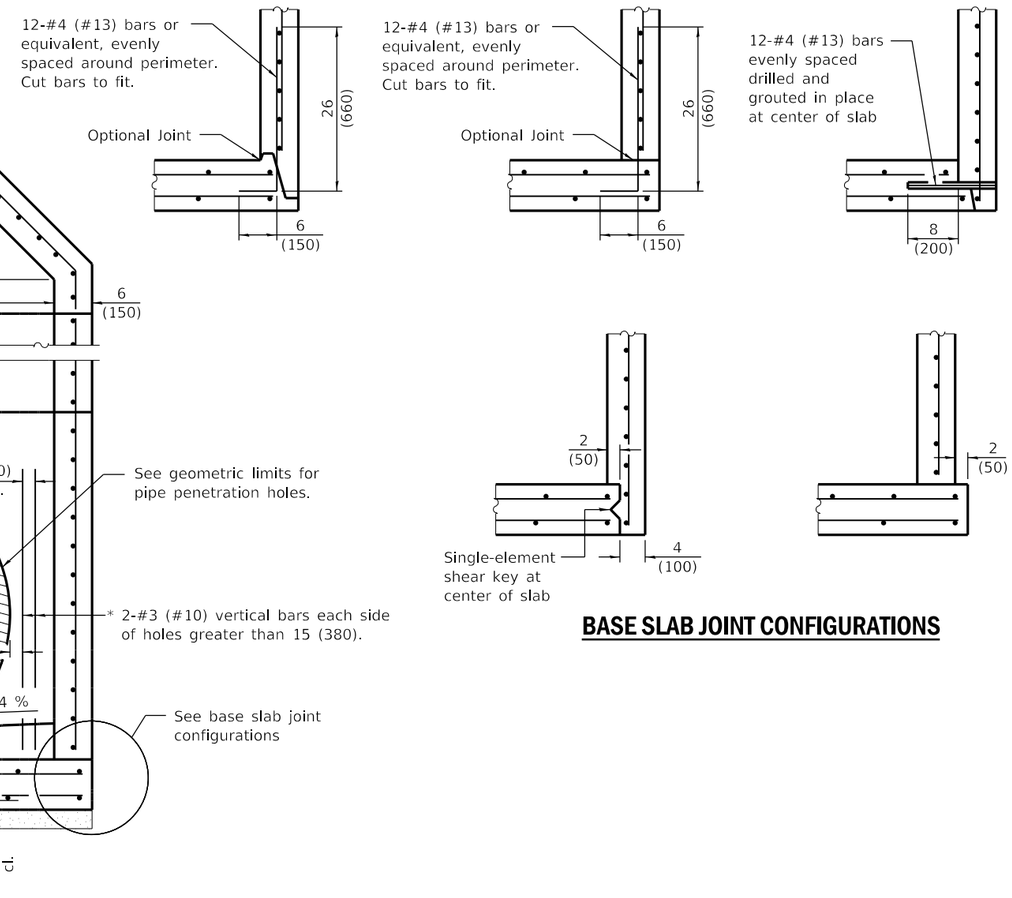
(With conical top riser)

* As an alternate, the barrel wall reinforcement may be reduced to riser wall reinforcement with #3 (#10) bars placed around the pipe penetration holes as shown. This option may be utilized when the pipe penetration holes are formed as opposed to cored.

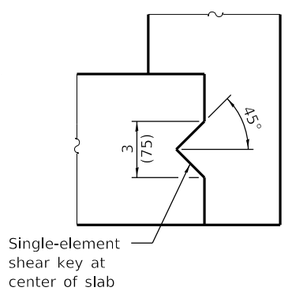


FLAT SLAB TOP JOINT CONFIGURATIONS

(Shown at access hole)



BASE SLAB JOINT CONFIGURATIONS



SHEAR KEY GEOMETRY

(Reinforcement not shown for clarity)

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

Note 1: A minimum of 9 (230) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 32 (810).

Note 2: A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).

Note 3: A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.

Note 4: Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.

Note 5: The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).

Note 6: Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.

GENERAL NOTES

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

See Standard 602701 for details of manhole steps.

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

Illinois Department of Transportation

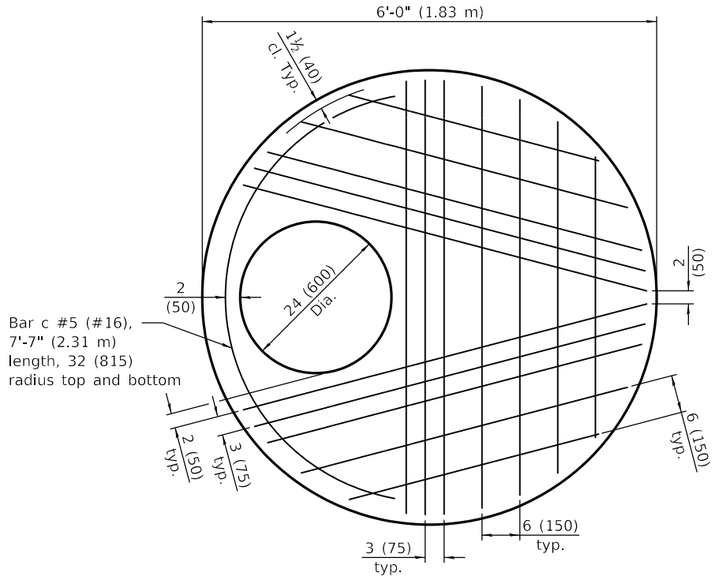
PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-18

DATE	REVISIONS
1-1-21	Revised Note 1 and lifting hole
	general note.
3-1-19	Moved wall reinforcement from
	inside face to middle.

PRECAST MANHOLE TYPE A 5' (1.52 m) DIAMETER

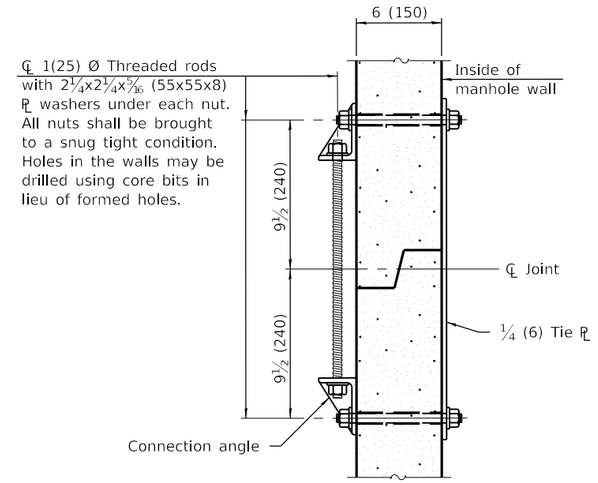
(Sheet 1 of 2)

STANDARD 602402-03

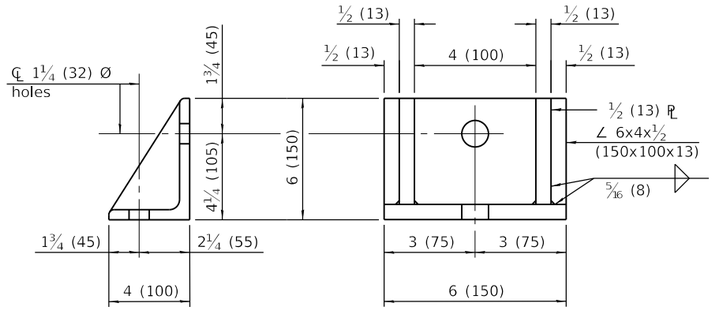


PLAN - FLAT SLAB TOP

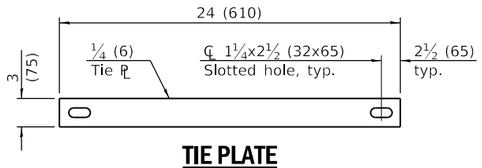
(Showing layout of bottom reinforcement bars and c bars)



JOINT SPLICE



CONNECTION ANGLE



TIE PLATE

FLAT SLAB TOP REINFORCEMENT

Location	WWR (each direction)		Rebar (each direction except as noted)		
	A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Top Mat	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#3 or #4 (#10) (#13)
Bottom Mat	** 0.40 sq. in./ft. (847 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#4 (#13)

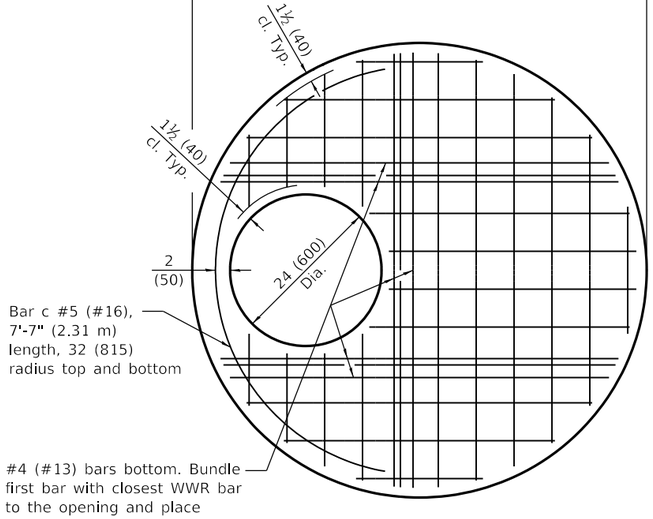
** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar	
		A_s (min.)	Spacing (max.)
Riser	Circumferential	0.15 sq. in./ft. (318 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
Barrel	Circumferential	0.15 sq. in./ft. (318 sq. mm/m)	6 (150)
	Vertical	0.16 sq. in./ft. (339 sq. mm/m)	4 (100)

BASE SLAB REINFORCEMENT

Location	Total Height	WWR or Rebar (each direction)	
		A_s (min.)	Spacing (max.)
Top Mat	≤ 20 ft. (6.10 m)	0.24 sq. in./ft. (508 sq. mm/m)	10 (250)
	> 20 ft. (6.10 m)	0.28 sq. in./ft. (593 sq. mm/m)	8 (200)
Bottom Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)



PLAN - FLAT SLAB TOP

(Showing layout of welded wire reinforcement and c bars)

Illinois Department of Transportation

PASSED January 1, 2021

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021

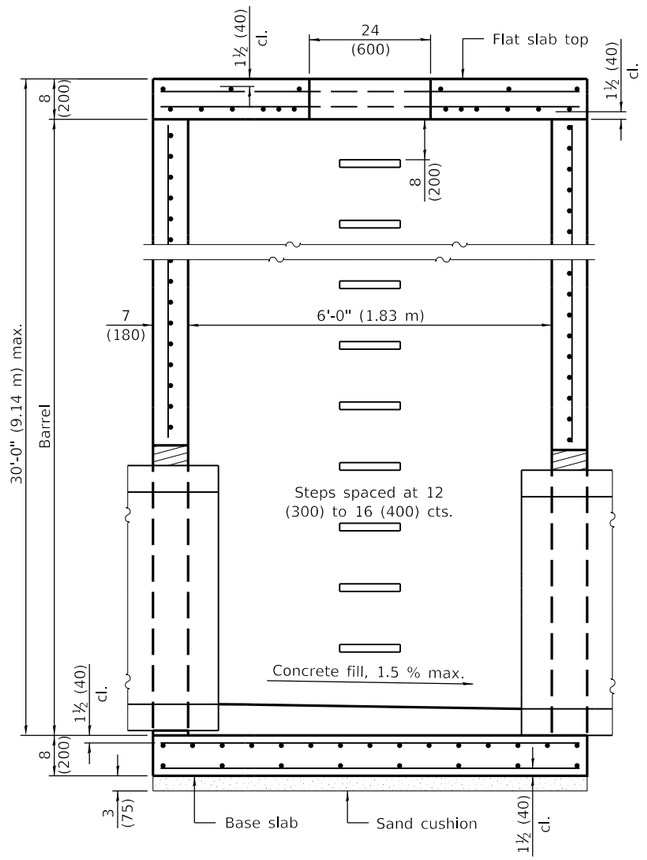
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-18

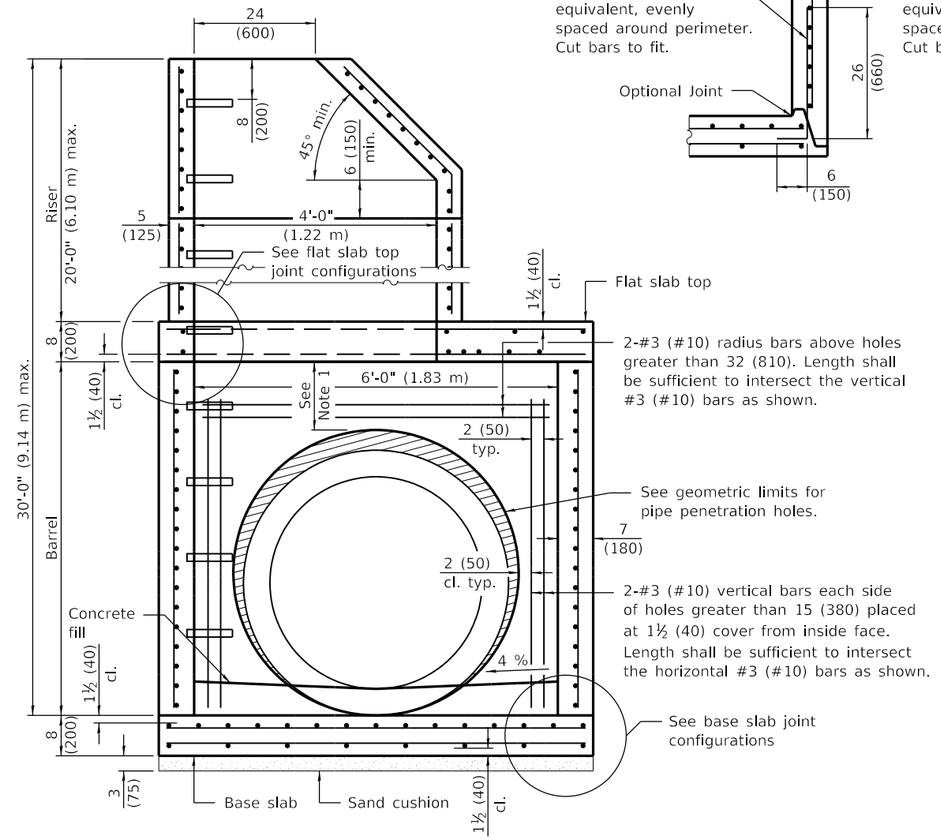
PRECAST MANHOLE TYPE A 5' (1.52 m) DIAMETER

(Sheet 2 of 2)

STANDARD 602402-03



SECTION PARALLEL TO PIPE
(Without conical top riser)



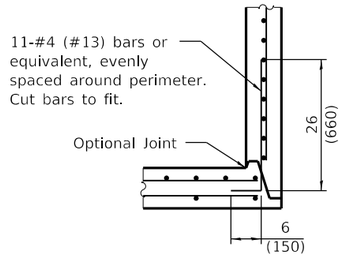
2-#3 (#10) radius bars above holes greater than 32 (810). Length shall be sufficient to intersect the vertical #3 (#10) bars as shown.

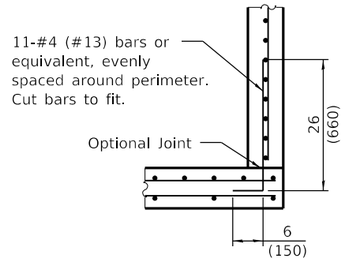
See geometric limits for pipe penetration holes.

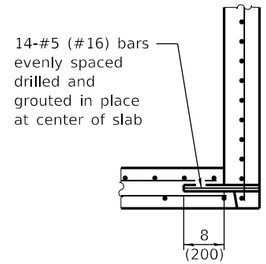
2-#3 (#10) vertical bars each side of holes greater than 15 (380) placed at 1½ (40) cover from inside face. Length shall be sufficient to intersect the horizontal #3 (#10) bars as shown.

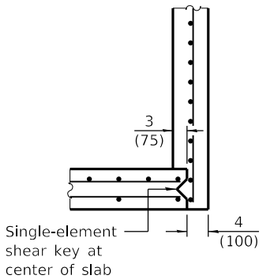
See base slab joint configurations

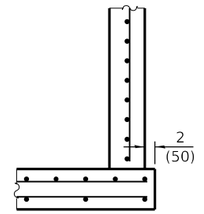
SECTION PERPENDICULAR TO PIPE
(With conical top riser)



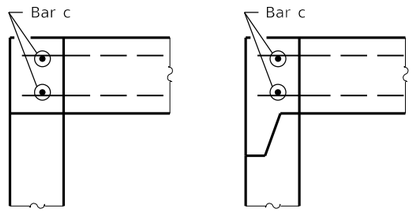








BASE SLAB JOINT CONFIGURATIONS



FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

Note 1: A minimum of 9 (230) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 32 (810).

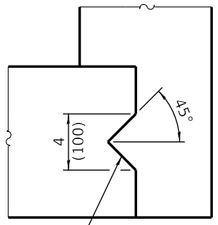
Note 2: A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).

Note 3: A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.

Note 4: Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.

Note 5: The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).

Note 6: Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.



SHEAR KEY GEOMETRY
(Reinforcement not shown for clarity)

GENERAL NOTES

Pipe holes shall be formed to facilitate proper placement of hole reinforcement.

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

See Standard 602701 for details of manhole steps.

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

Illinois Department of Transportation

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ENGINEER OF POLICY AND PROCEDURES

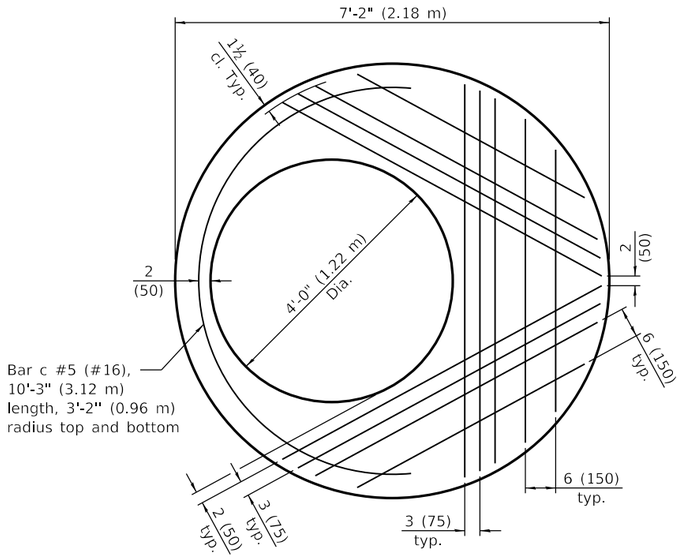
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

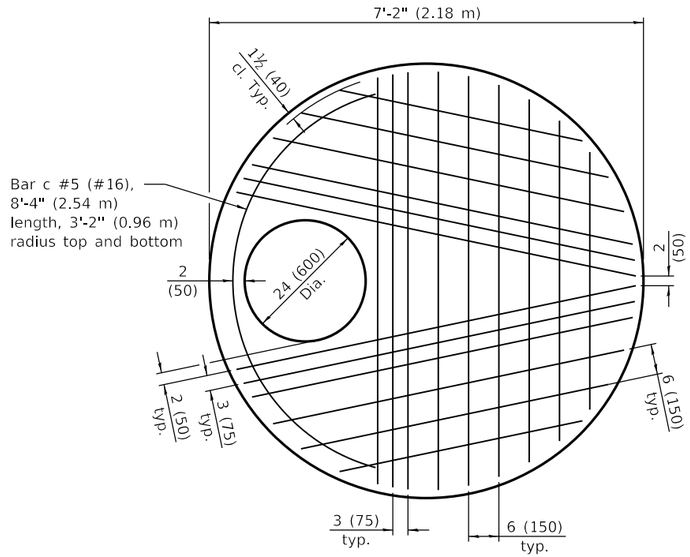
ISSUED 1-1-97

DATE	REVISIONS
1-1-21	Revised Note 1, Note 2 and
	lifting hole general note.
3-1-19	Moved wall reinforcement from
	inside face to middle.

PRECAST MANHOLE TYPE A
6' (1.83 m) DIAMETER

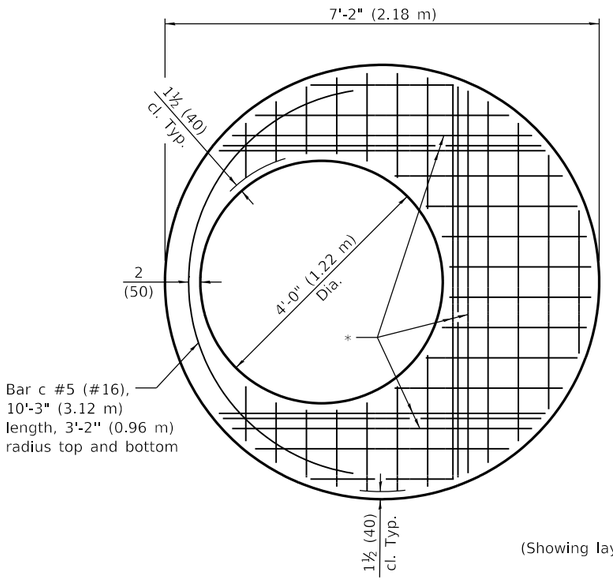
STANDARD 602406-11

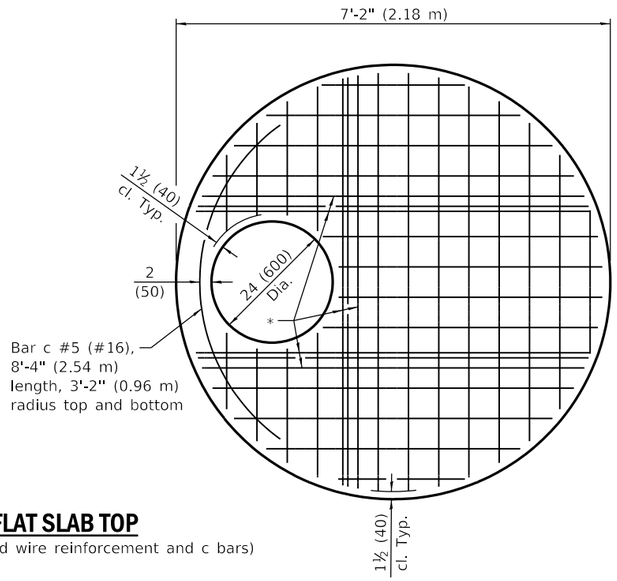




PLAN - FLAT SLAB TOP

(Showing layout of bottom reinforcement bars and c bars)





PLAN - FLAT SLAB TOP

(Showing layout of welded wire reinforcement and c bars)

* #5 (#16) bars for risers ≤ 10 ft. (3.05 m) tall or #6 (#19) bars for risers > 10 ft. (3.05 m) tall bottom. Bundle first bar with closest WWR bar to the opening and place second bar ±3 (75) away.

Illinois Department of Transportation

PASSED January 1, 2021

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021

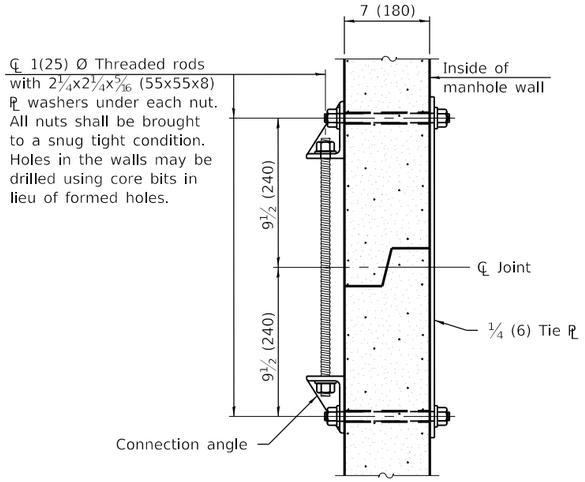
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

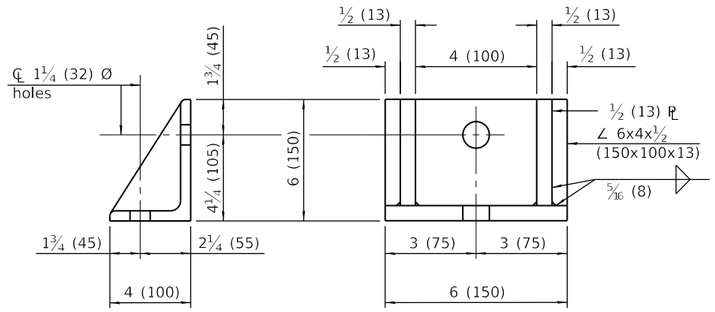
PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER

(Sheet 2 of 3)

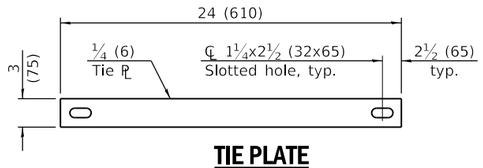
STANDARD 602406-11



JOINT SPLICE



CONNECTION ANGLE



TIE PLATE

FLAT SLAB TOP REINFORCEMENT

Location	Riser Height (RH)	WWR (each direction)		Rebar (each direction except as noted)		
		A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Top Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#3 or #4 (#10) (#13)
Bottom Mat	RH ≤ 10 ft. (3.05 m)	** 0.62 sq. in./ft. (1312 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#5 (#16)
	RH > 10 ft. (3.05 m)	** 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)			#6 (#19)

** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar	
		A_s (min.)	Spacing (max.)
4 ft. (1.22 m) Ø Riser	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
6 ft. (1.83 m) Ø Barrel	Circumferential	0.18 sq. in./ft. (381 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)

BASE SLAB REINFORCEMENT

Location	Riser Height (RH)/ Total Height (TH)	WWR or Rebar (each direction)	
		A_s (min.)	Spacing (max.)
Top Mat	RH ≤ 10 ft. (3.05 m) & TH ≤ 20 ft. (6.10 m)	0.28 sq. in./ft. (593 sq. mm/m)	6 (150)
	RH > 10 ft. (3.05 m) or TH > 20 ft. (6.10 m)	0.40 sq. in./ft. (847 sq. mm/m)	6 (150)
Bottom Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)

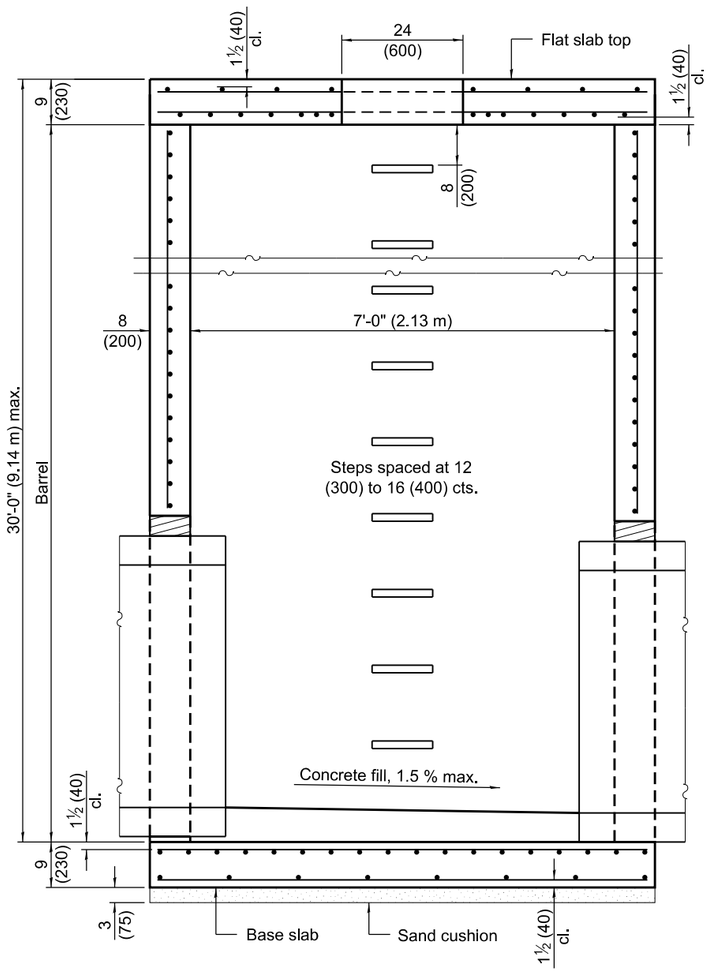
Illinois Department of Transportation

PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

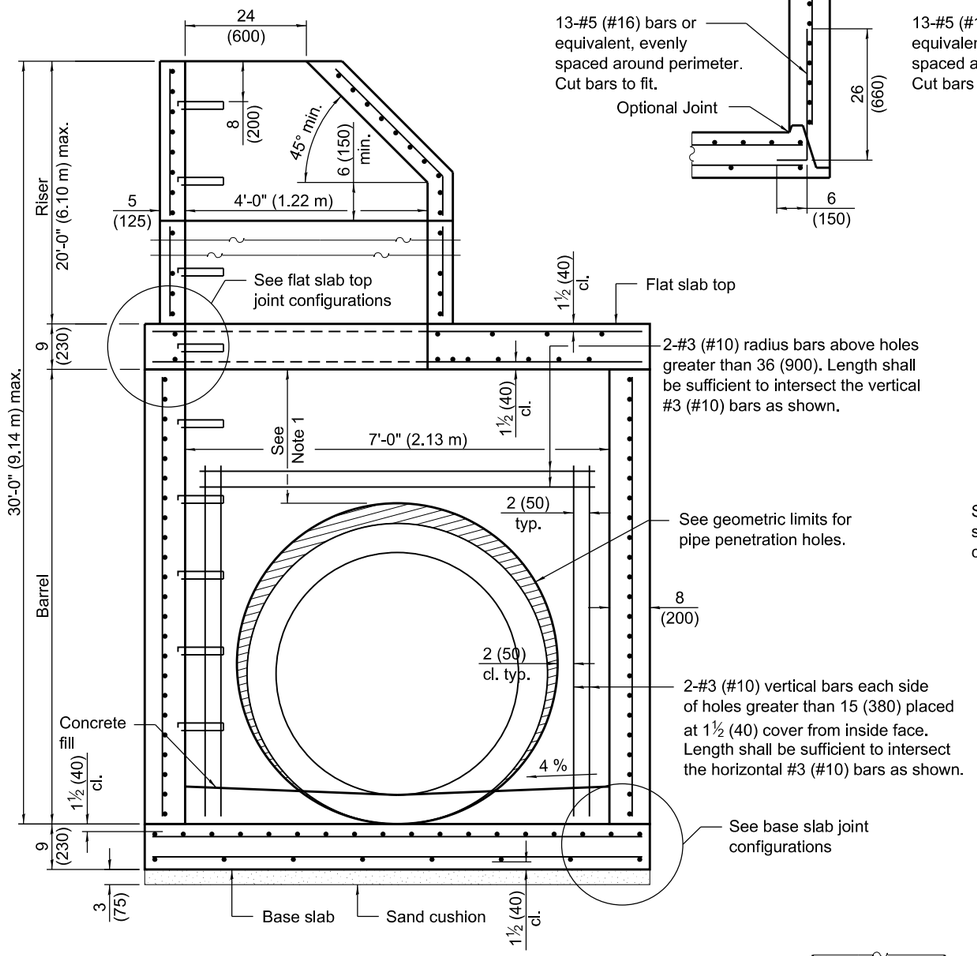
ISSUED 1-1-97

PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER

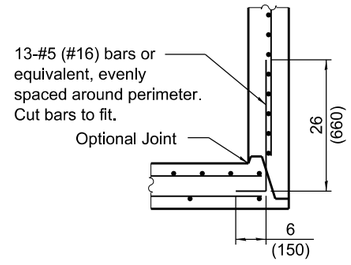
STANDARD 602406-11

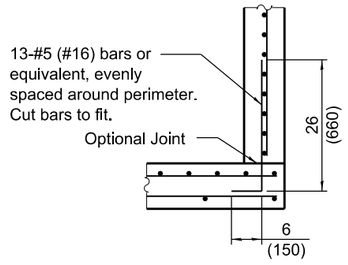


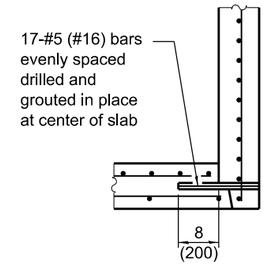
SECTION PARALLEL TO PIPE
(Without conical top riser)

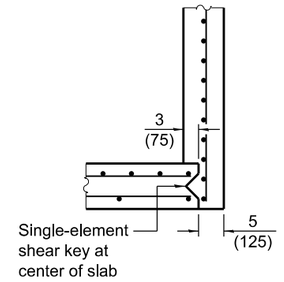


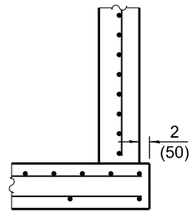
SECTION PERPENDICULAR TO PIPE
(With conical top riser)



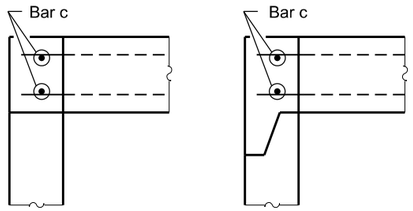








BASE SLAB JOINT CONFIGURATIONS



FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

Note 1: A minimum of 12 (300) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 36 (900).

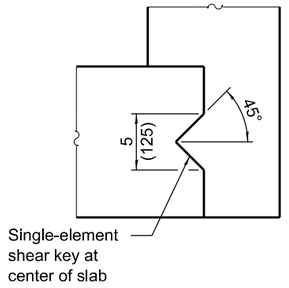
Note 2: A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).

Note 3: A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.

Note 4: Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.

Note 5: The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).

Note 6: Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.



SHEAR KEY GEOMETRY
(Reinforcement not shown for clarity)

GENERAL NOTES

Pipe holes shall be formed to facilitate proper placement of hole reinforcement.

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

See Standard 602701 for details of manhole steps.

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

Illinois Department of Transportation

APPROVED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

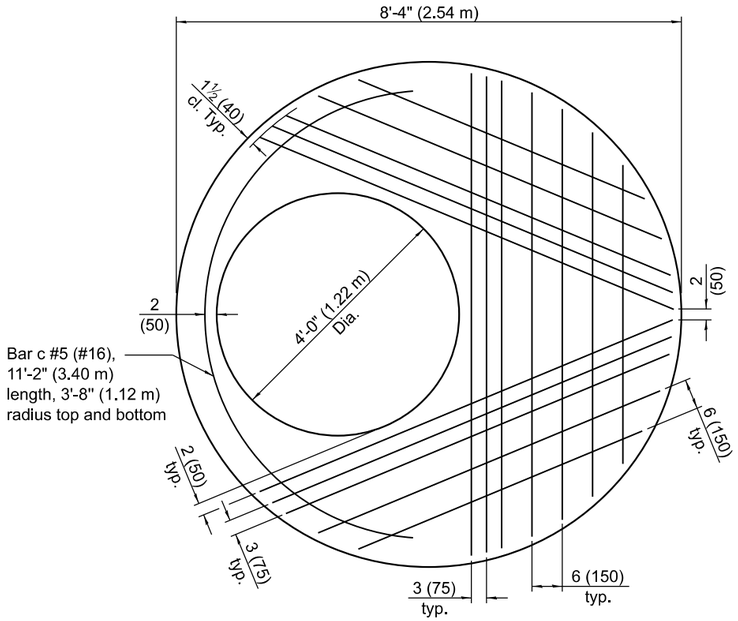
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

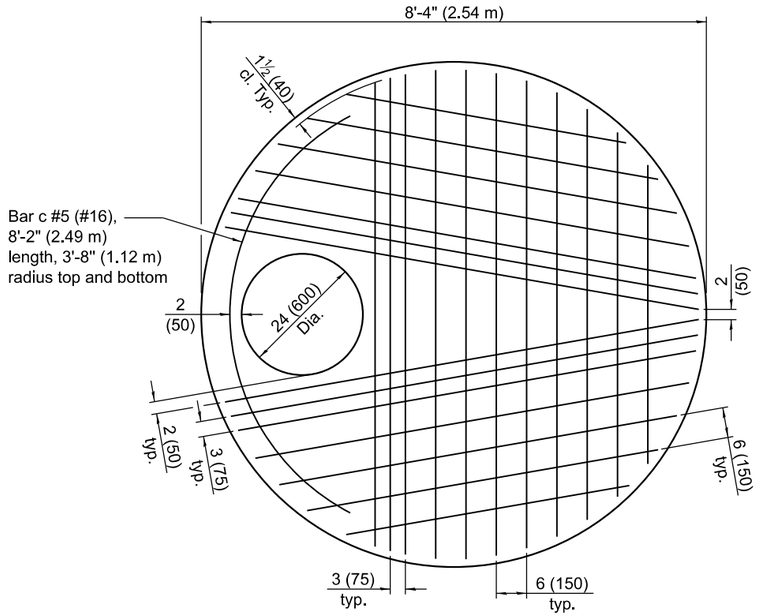
ISSUED 4-1-06

DATE	REVISIONS
1-1-21	Revised Note 1 and lifting hole
	general note.
3-1-19	Moved wall reinforcement from
	inside face to middle.

PRECAST MANHOLE TYPE A 7' (2.13 m) DIAMETER

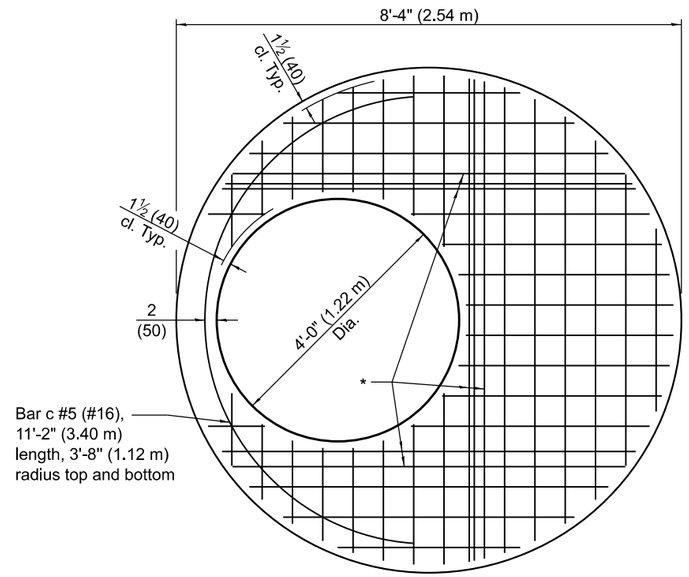
STANDARD 602411-09

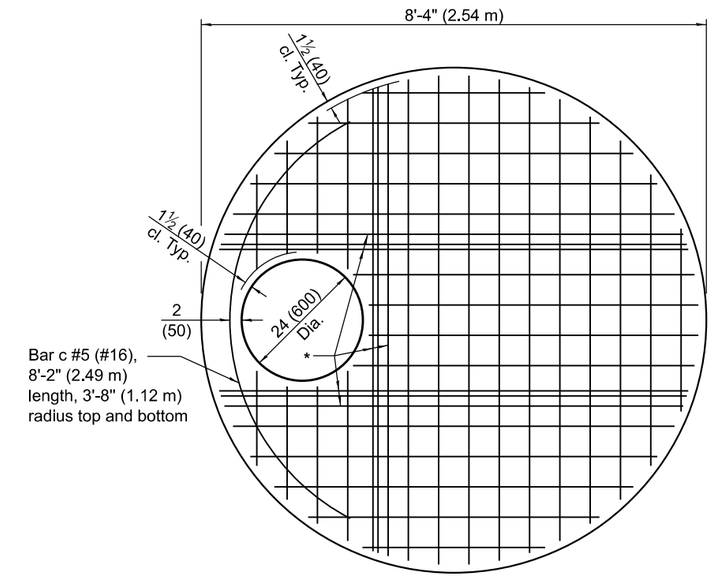




PLAN - FLAT SLAB TOP

(Showing layout of bottom reinforcement bars and c bars)





PLAN - FLAT SLAB TOP

(Showing layout of Welded Wire Reinforcement and c bars)
WWR not permitted for riser heights > 10' (3.05 m).

* #5 (#16) bars bottom. Bundle first bar with closest WWR bar to the opening and place second bar ±3 (75) away.

Illinois Department of Transportation

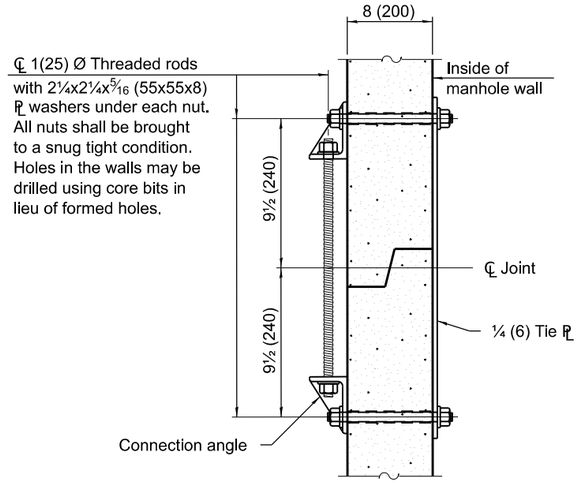
APPROVED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

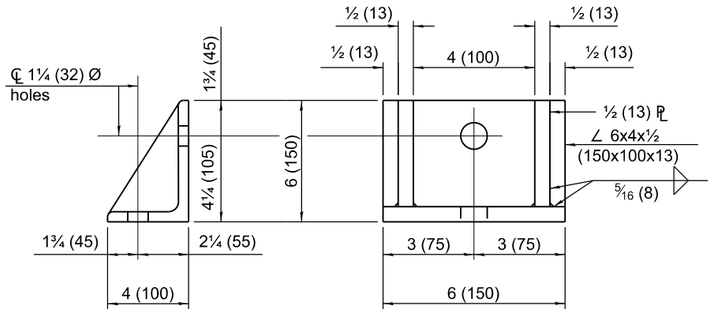
ISSUED 4-1-06

PRECAST MANHOLE TYPE A
7' (2.13 m) DIAMETER

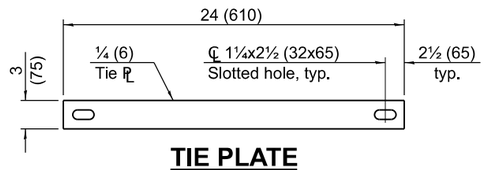
STANDARD 602411-09



JOINT SPLICE



CONNECTION ANGLE



TIE PLATE

FLAT SLAB TOP REINFORCEMENT

Location	Riser Height (RH)	WWR (each direction)		Rebar (each direction except as noted)		
		A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Top Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#3 or #4 (#10) (#13)
Bottom Mat	RH ≤ 10 ft. (3.05 m)	** 0.62 sq. in./ft. (312 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#5 (#16)
	RH > 10 ft. (3.05 m)	WWR not permitted				#7 (#22)

** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar	
		A_s (min.)	Spacing (max.)
4 ft. (1.22 m) Ø Riser	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
7 ft. (2.13 m) Ø Barrel	Circumferential	0.21 sq. in./ft. (445 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)

BASE SLAB REINFORCEMENT

Location	Riser Height (RH)/ Total Height (TH)	WWR or Rebar (each direction)	
		A_s (min.)	Spacing (max.)
Top Mat	RH ≤ 10 ft. (3.05 m) & TH ≤ 20 ft. (6.10 m)	0.32 sq. in./ft. (677 sq. mm/m)	6 (150)
	RH > 10 ft. (3.05 m) or TH > 20 ft. (6.10 m)	0.52 sq. in./ft. (1101 sq. mm/m)	6 (150)
Bottom Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)

Illinois Department of Transportation

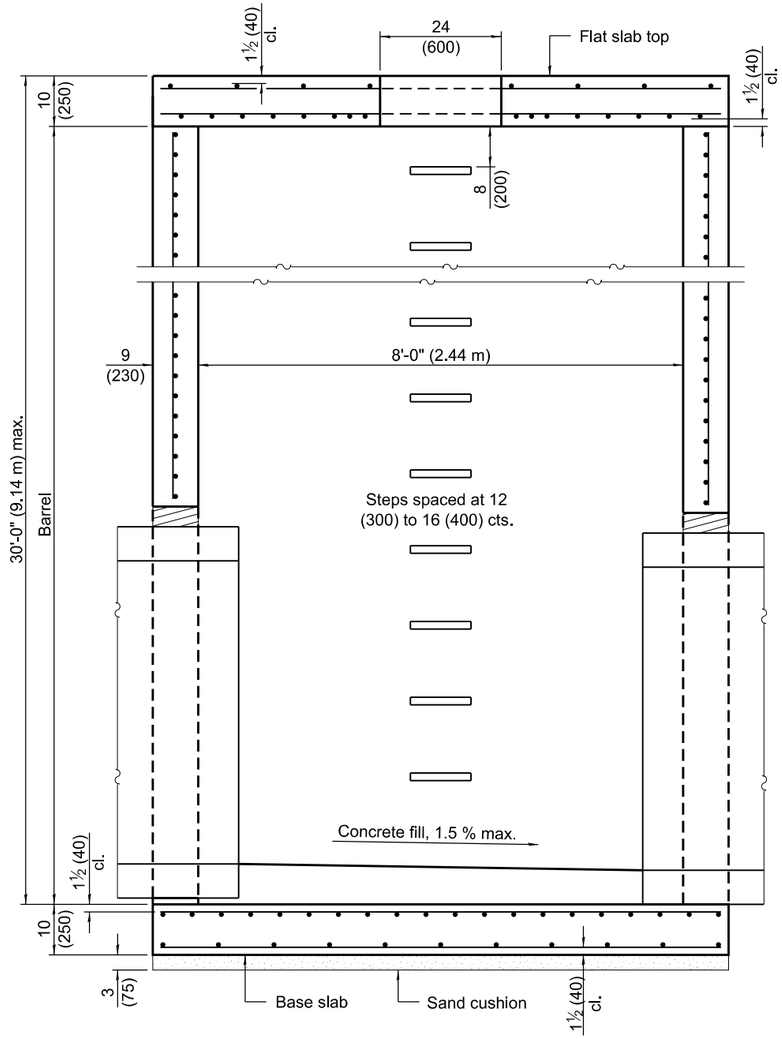
APPROVED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

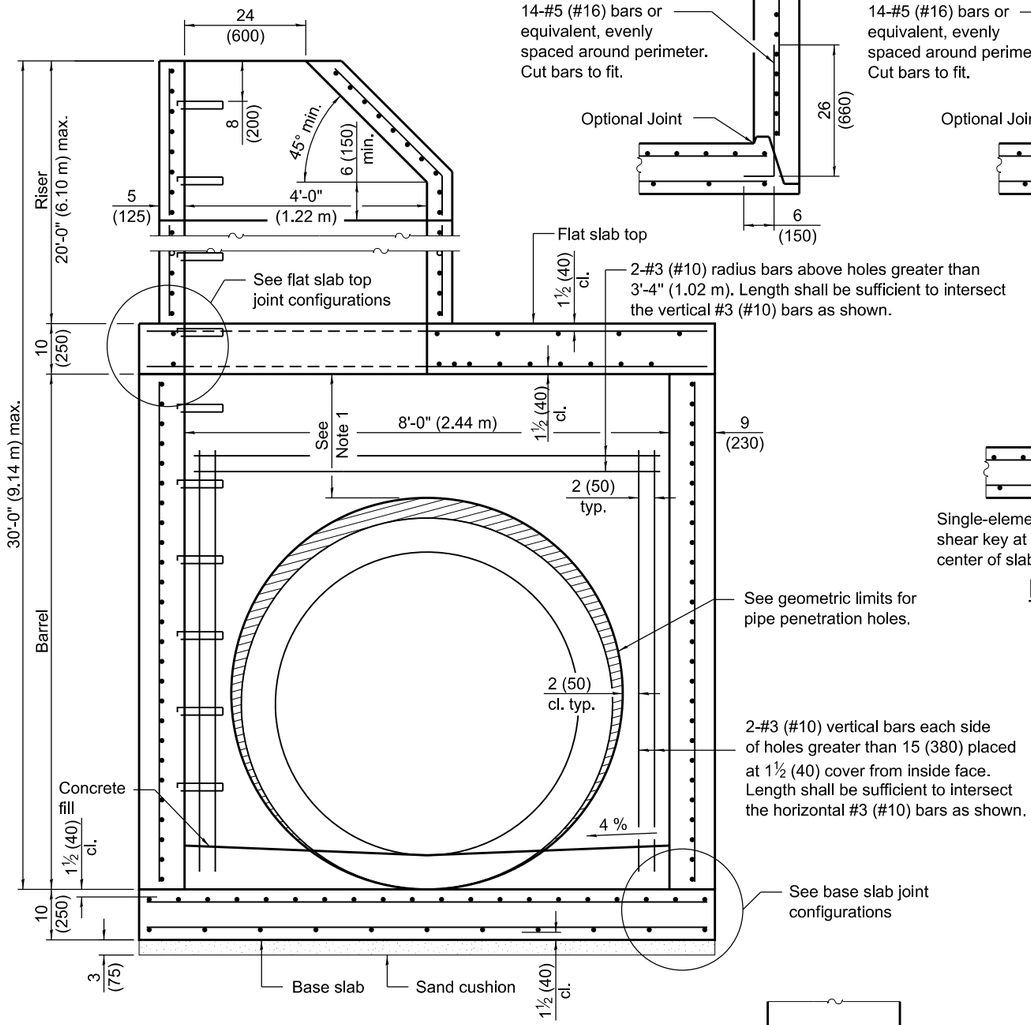
ISSUED 4-1-06

PRECAST MANHOLE TYPE A 7' (2.13 m) DIAMETER

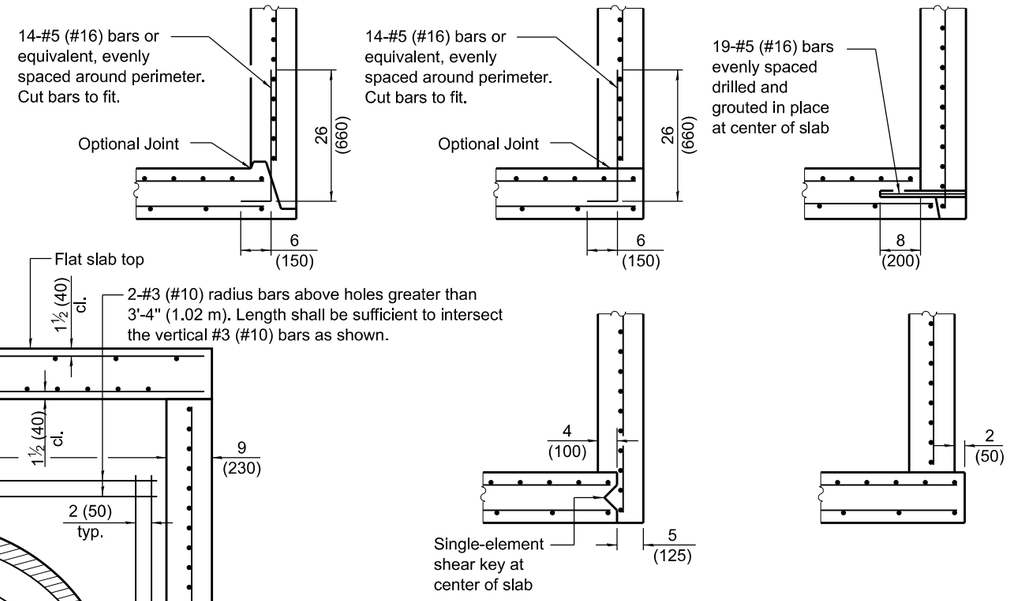
STANDARD 602411-09



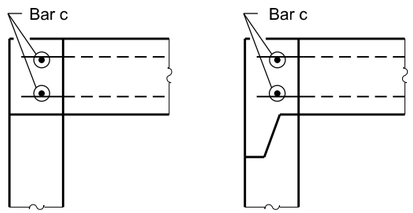
SECTION PARALLEL TO PIPE
(Without conical top riser)



SECTION PERPENDICULAR TO PIPE
(With conical top riser)



BASE SLAB JOINT CONFIGURATIONS



FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

Note 1: A minimum of 12 (300) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 3'-4" (1.02 m).

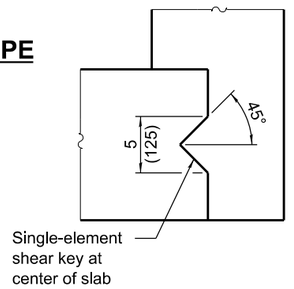
Note 2: A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).

Note 3: A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.

Note 4: Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.

Note 5: The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).

Note 6: Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.



SHEAR KEY GEOMETRY
(Reinforcement not shown for clarity)

GENERAL NOTES

Pipe holes shall be formed to facilitate proper placement of hole reinforcement.

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

See Standard 602701 for details of manhole steps.

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

Illinois Department of Transportation

APPROVED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

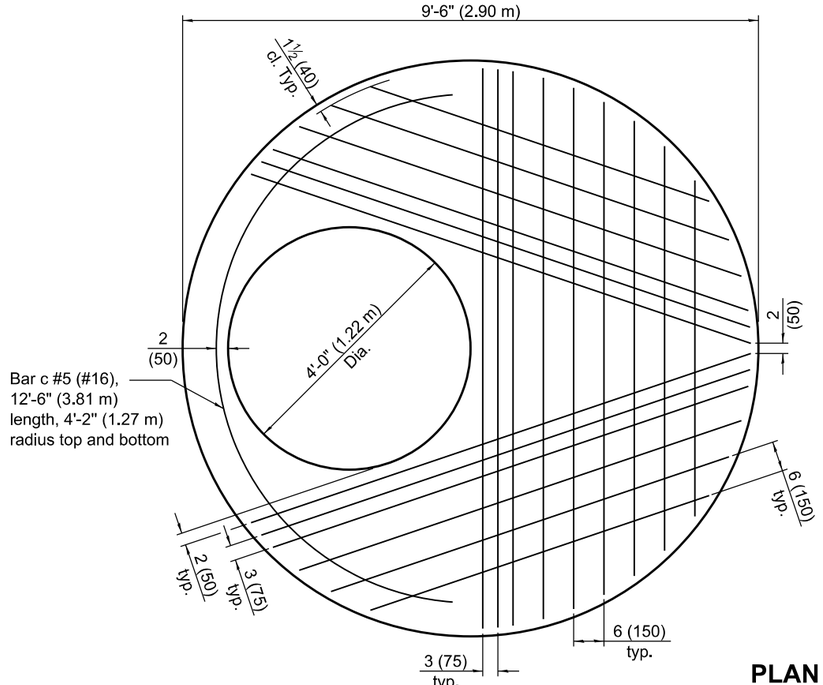
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

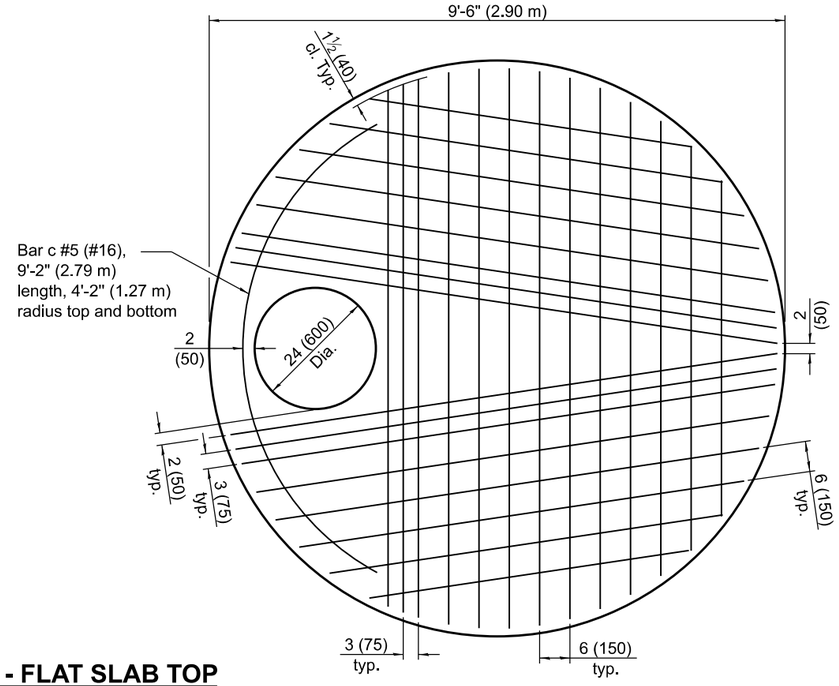
ISSUED 4-1-06

DATE	REVISIONS
1-1-21	Revised Note 1 and lifting hole
	general note.
3-1-19	Moved wall reinforcement from
	inside face to middle.

PRECAST MANHOLE TYPE A 8' (2.44 m) DIAMETER

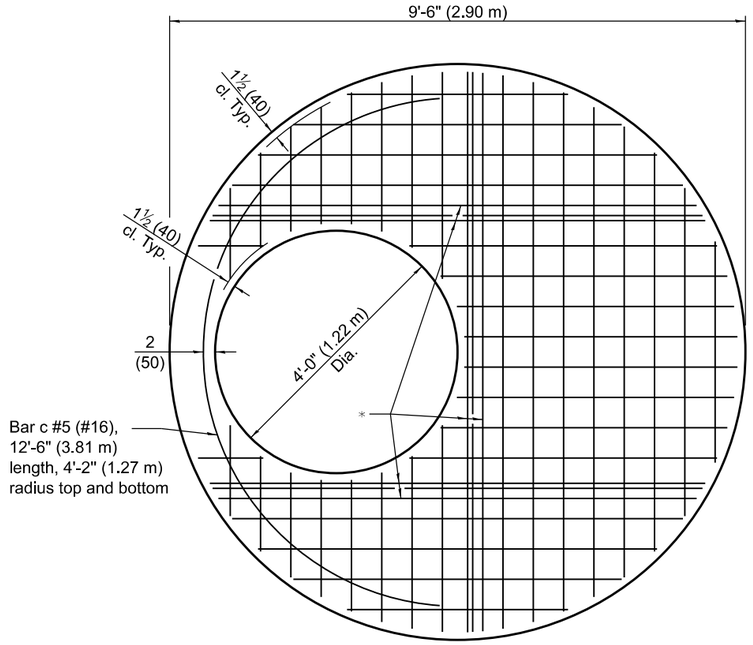
STANDARD 602416-09

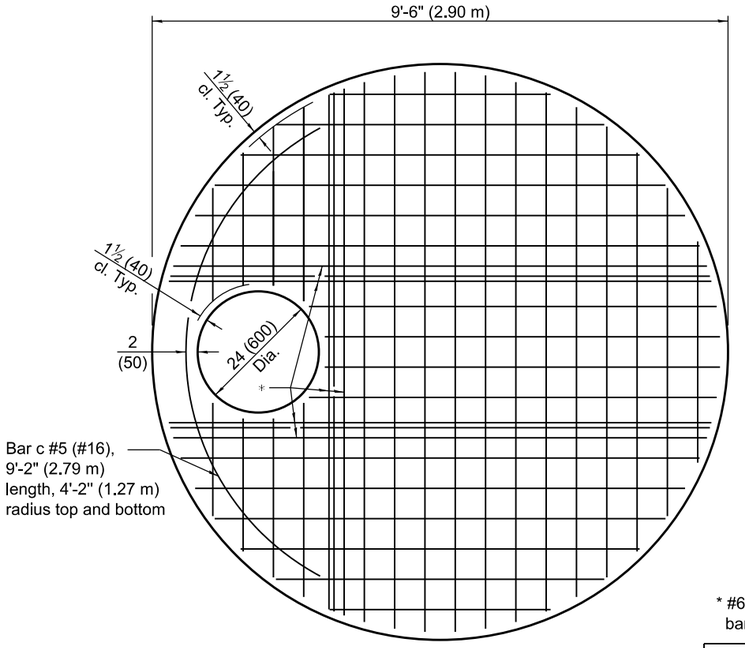




PLAN - FLAT SLAB TOP

(Showing layout of bottom reinforcement bars and c bars)





PLAN - FLAT SLAB TOP

(Showing layout of Welded Wire Reinforcement and c bars)
WWR not permitted for riser heights > 10' (3.05 m).

* #6 (#19) bars bottom. Bundle first bar with closest WWR bar to the opening and place second bar ±3 (75) away.

Illinois Department of Transportation

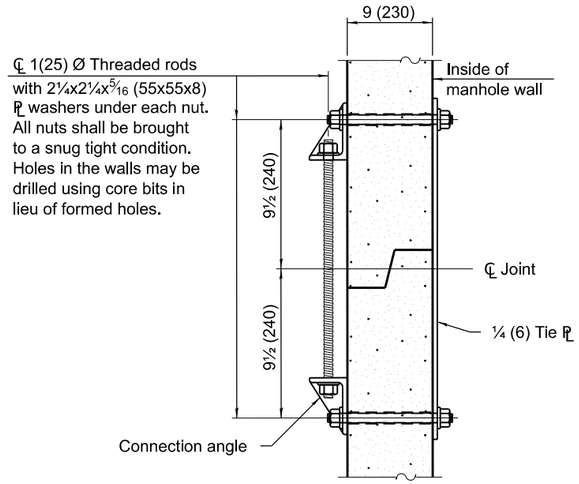
APPROVED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

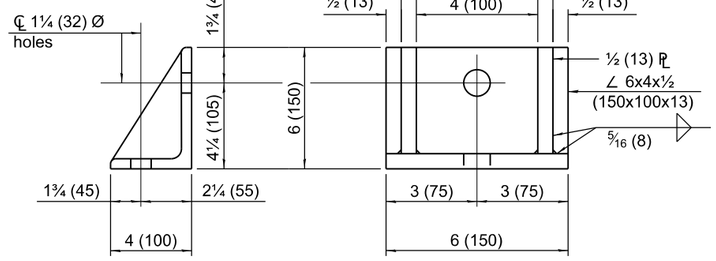
ISSUED 4-1-06

PRECAST MANHOLE TYPE A
8' (2.44 m) DIAMETER

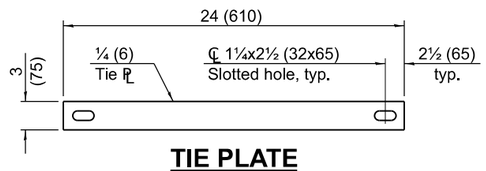
STANDARD 602416-09



JOINT SPLICE



CONNECTION ANGLE



TIE PLATE

FLAT SLAB TOP REINFORCEMENT

Location	Riser Height (RH)	WWR (each direction)		Rebar (each direction except as noted)		
		A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Top Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#3 or #4 (#10) (#13)
Bottom Mat	RH ≤ 10 ft. (3.05 m)	** 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)
	RH > 10 ft. (3.05 m)	WWR not permitted				#7 (#22)

** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar	
		A_s (min.)	Spacing (max.)
4 ft. (1.22 m) Ø Riser	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
8 ft. (2.44 m) Ø Barrel	Circumferential	0.24 sq. in./ft. (508 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)

BASE SLAB REINFORCEMENT

Location	Riser Height (RH)/ Total Height (TH)	WWR or Rebar (each direction)	
		A_s (min.)	Spacing (max.)
Top Mat	RH ≤ 10 ft. (3.05 m) & TH ≤ 20 ft. (6.10 m)	0.36 sq. in./ft. (762 sq. mm/m)	6 (150)
	RH > 10 ft. (3.05 m) or TH > 20 ft. (6.10 m)	0.60 sq. in./ft. (1270 sq. mm/m)	6 (150)
Bottom Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)

Illinois Department of Transportation

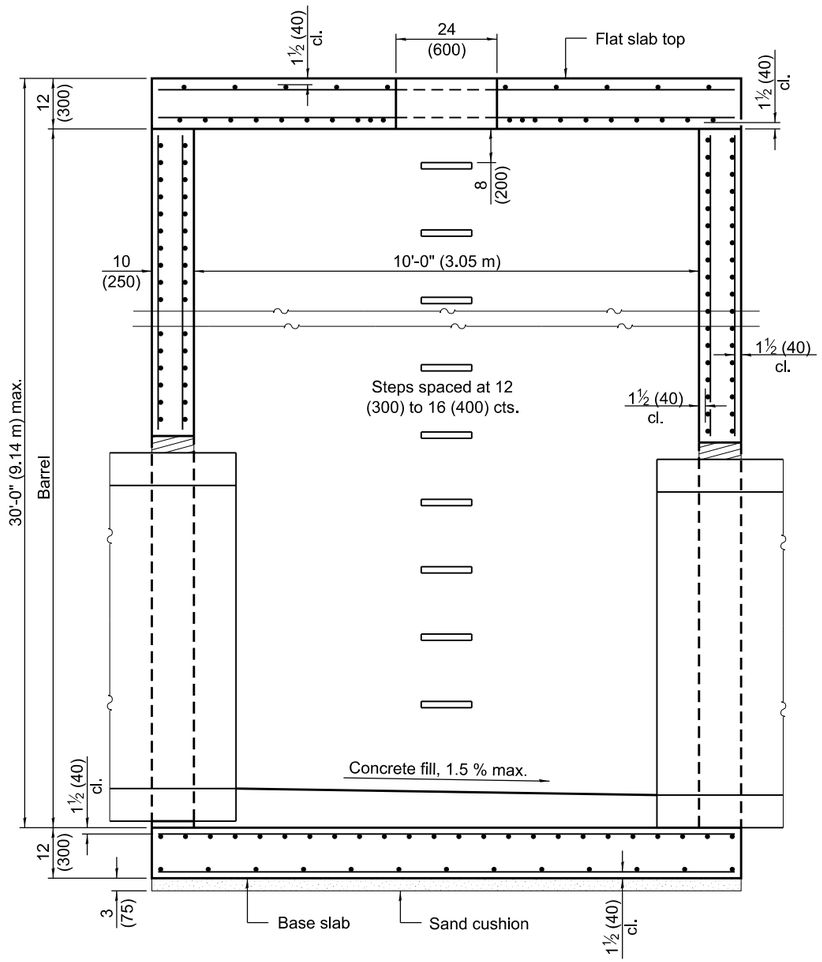
APPROVED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

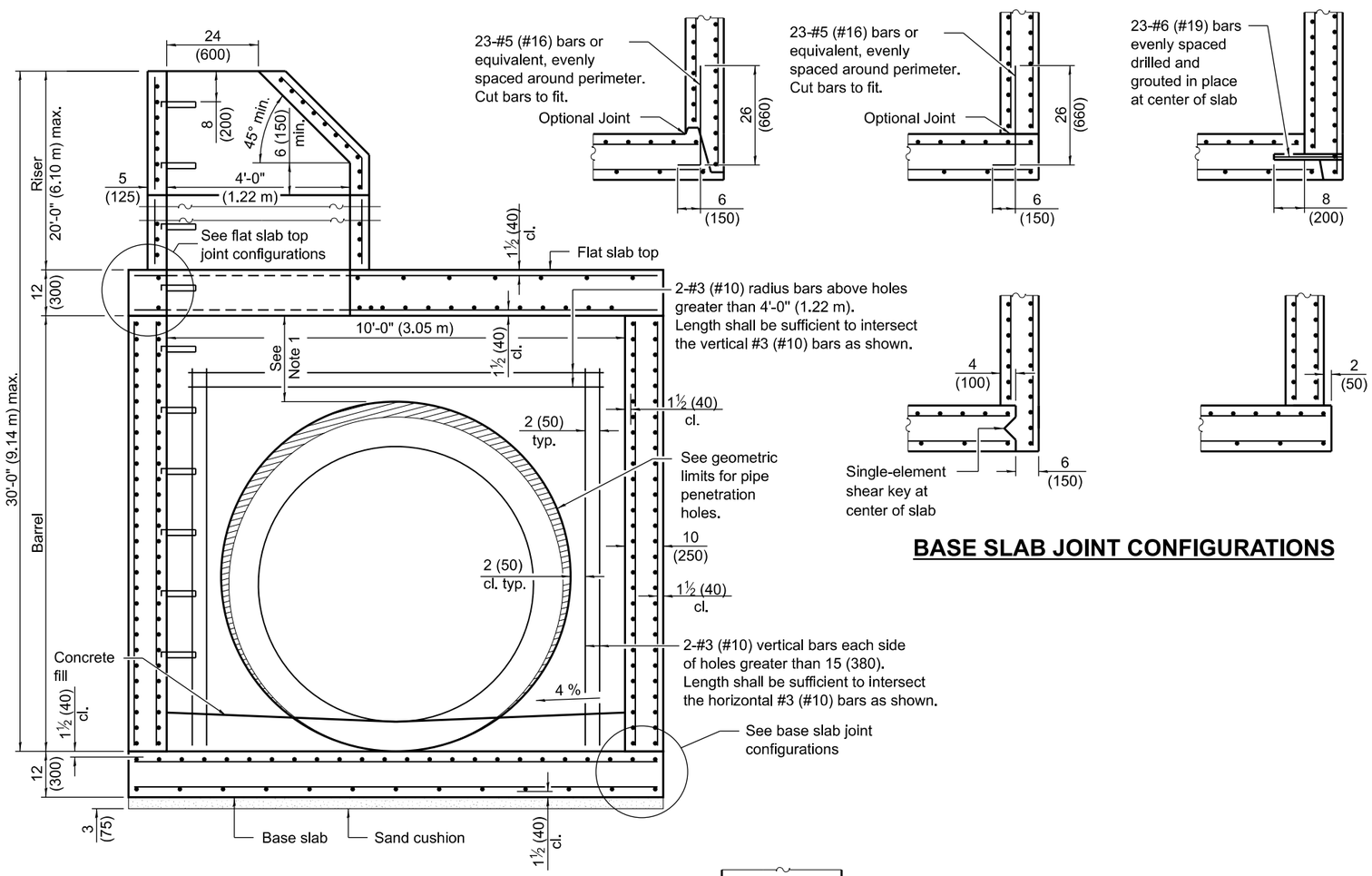
ISSUED 4-1-06

PRECAST MANHOLE TYPE A 8' (2.44 m) DIAMETER

STANDARD 602416-09

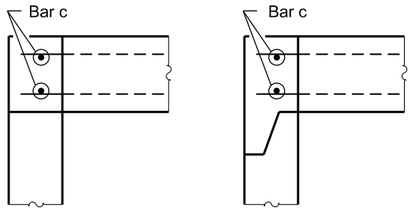


SECTION PARALLEL TO PIPE
(Without conical top riser)



SECTION PERPENDICULAR TO PIPE
(With conical top riser)

BASE SLAB JOINT CONFIGURATIONS



FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

Note 1: A minimum of 12 (300) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 4'-0" (1.22 m).

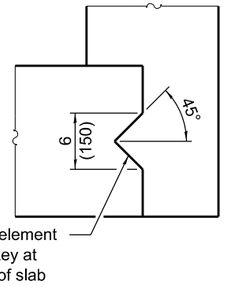
Note 2: A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).

Note 3: A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.

Note 4: Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.

Note 5: The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).

Note 6: Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.



SHEAR KEY GEOMETRY
(Reinforcement not shown for clarity)

GENERAL NOTES

Pipe holes shall be formed to facilitate proper placement of hole reinforcement.

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

See Standard 602701 for details of manhole steps.

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

Illinois Department of Transportation

APPROVED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

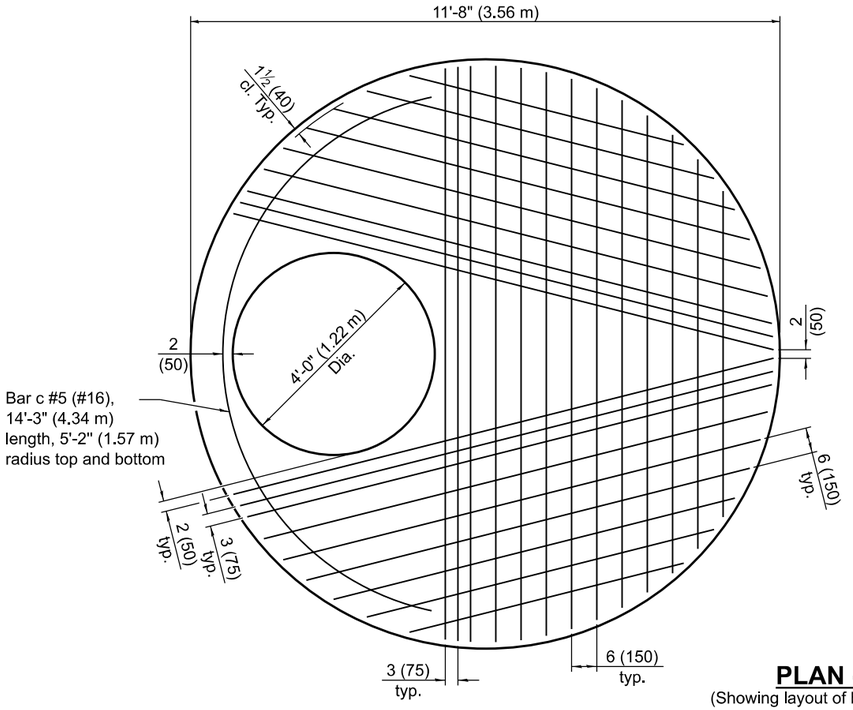
ISSUED 1-1-18

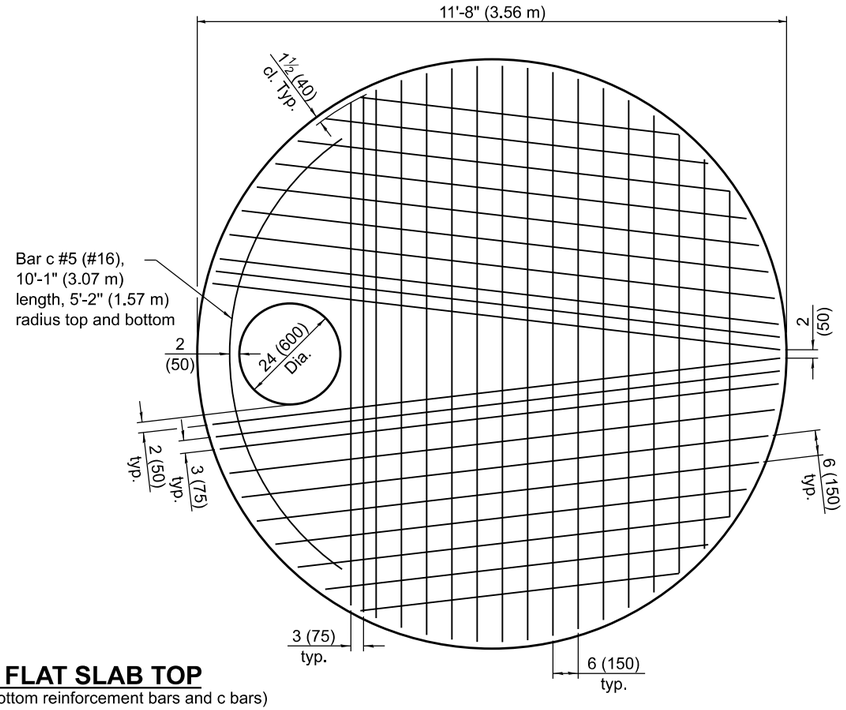
DATE	REVISIONS
1-1-21	Revised Note 1.
3-1-19	Moved wall reinforcement of
	4'-0" (1.22 m) riser from inside
	face to middle.

PRECAST MANHOLE TYPE A 10' (3.05 m) DIAMETER

(Sheet 1 of 3)

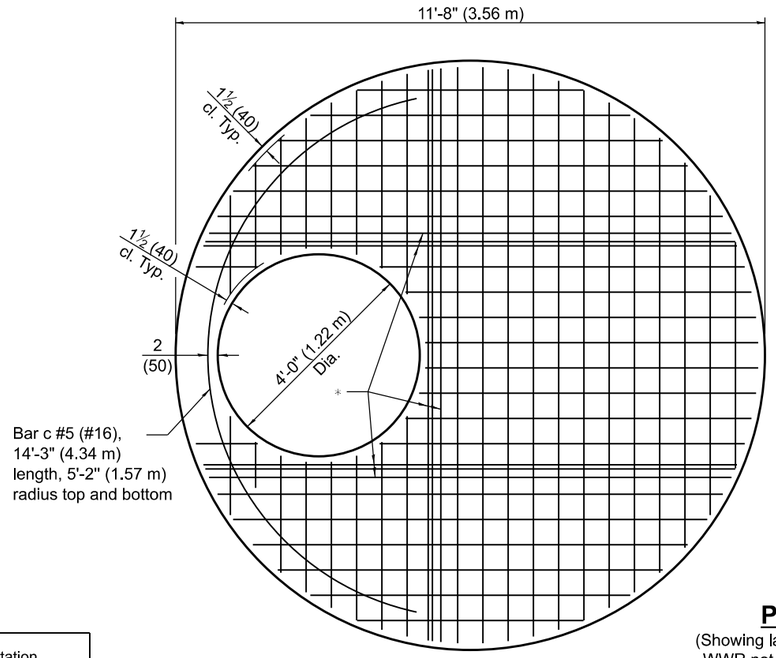
STANDARD 602426-03

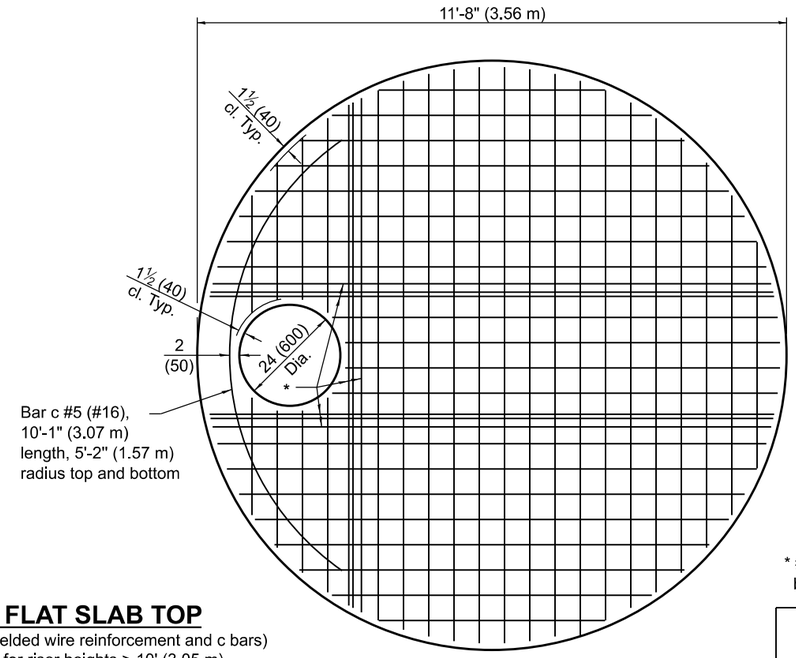




PLAN - FLAT SLAB TOP

(Showing layout of bottom reinforcement bars and c bars)





PLAN - FLAT SLAB TOP

(Showing layout of welded wire reinforcement and c bars)
WWR not permitted for riser heights > 10' (3.05 m).

* #6 (#19) bars bottom. Bundle first bar with closest WWR bar to the opening and place second bar ±3 (75) away.

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APPROVED January 1, 2021
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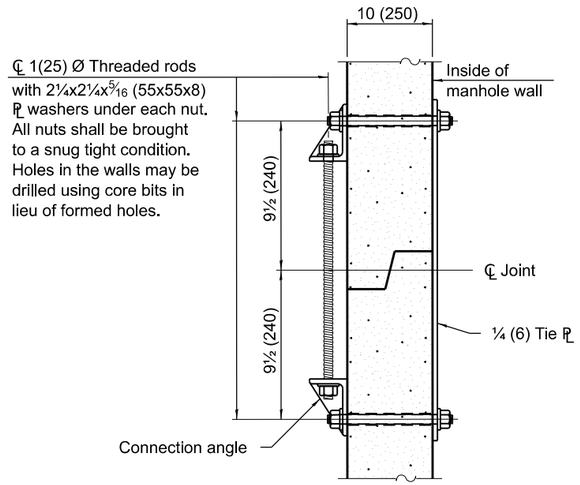
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

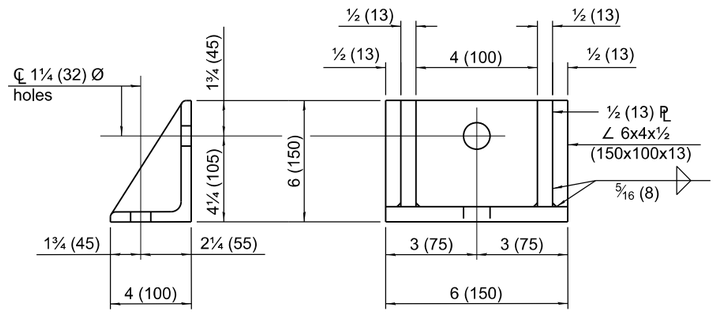
ISSUED 1-1-18

PRECAST MANHOLE TYPE A
10' (3.05 m) DIAMETER

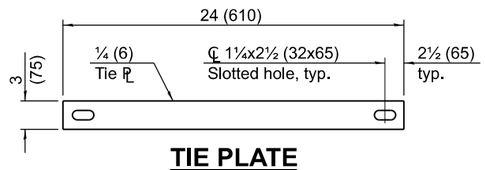
STANDARD 602426-03



JOINT SPLICE



CONNECTION ANGLE



TIE PLATE

FLAT SLAB TOP REINFORCEMENT

Location	Riser Height (RH)	WWR (each direction)		Rebar (each direction except as noted)		
		A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Top Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#3 or #4 (#10) (#13)
Bottom Mat	RH ≤ 10 ft. (3.05 m)	** 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)
	RH > 10 ft. (3.05 m)	WWR not permitted				#8 (#25)

** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar	
		A_s (min.)	Spacing (max.)
4 ft. (1.22 m) Ø Riser	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
10 ft. (3.05 m) Ø Barrel Inside Mat	Circumferential	0.30 sq. in./ft. (635 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
10 ft. (3.05 m) Ø Barrel Outside Mat	Circumferential	0.11 sq. in./ft. (233 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)

BASE SLAB REINFORCEMENT

Location	Riser Height (RH)/ Total Height (TH)	WWR or Rebar (each direction)	
		A_s (min.)	Spacing (max.)
Top Mat	RH ≤ 10 ft. (3.05 m) & TH ≤ 20 ft. (6.10 m)	0.48 sq. in./ft. (889 sq. mm/m)	6 (150)
	RH > 10 ft. (3.05 m) or TH > 20 ft. (6.10 m)	0.78 sq. in./ft. (1651 sq. mm/m)	6 (150)
Bottom Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)

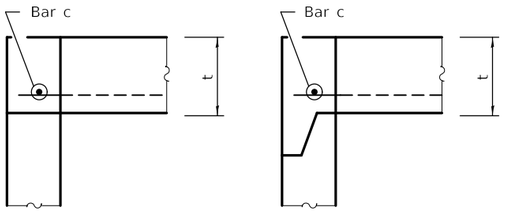
Illinois Department of Transportation

APPROVED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-18

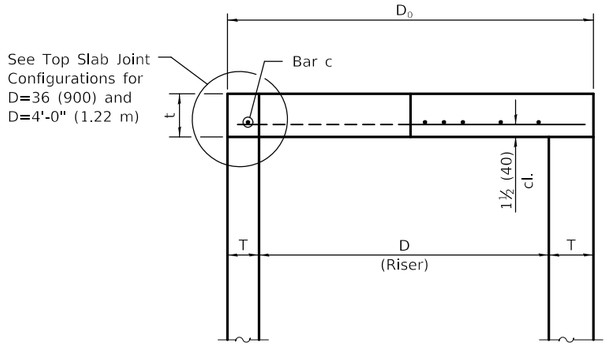
PRECAST MANHOLE TYPE A 10' (3.05 m) DIAMETER

STANDARD 602426-03

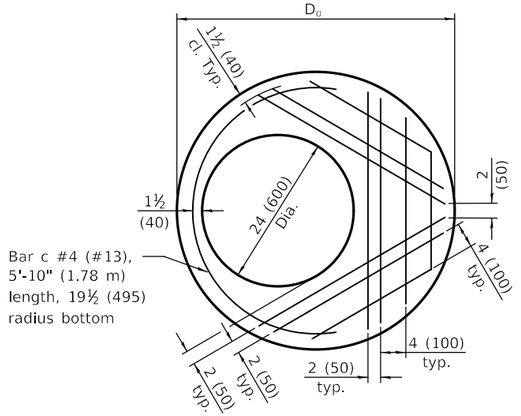


FLAT SLAB TOP JOINT CONFIGURATIONS FOR D = 36 (900) AND D = 4'-0" (1.22 m)

(Shown at access hole)

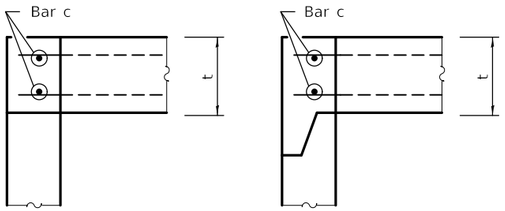


SECTION THRU FLAT SLAB TOP FOR D = 36 (900) AND D = 4'-0" (1.22 m)



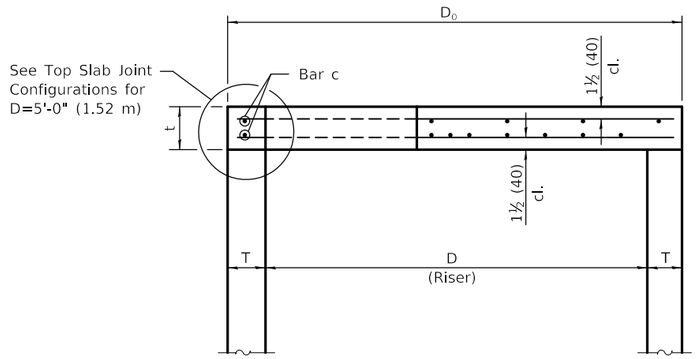
PLAN - FLAT SLAB TOP FOR D = 36 (900)

(Showing layout of reinforcement bars and c bars)

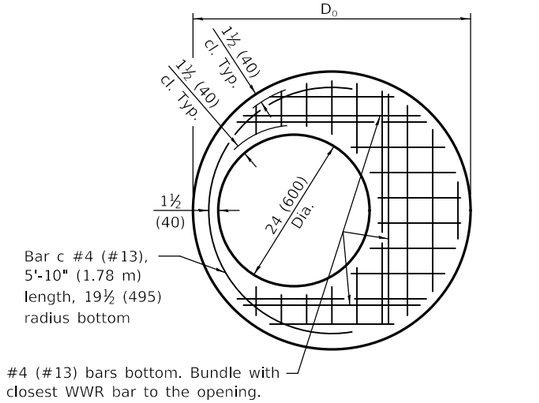


FLAT SLAB TOP JOINT CONFIGURATIONS D = 5'-0" (1.52 m)

(Shown at access hole)



SECTION THRU FLAT SLAB TOP FOR D = 5'-0" (1.52 m)



PLAN - FLAT SLAB TOP FOR D = 36 (900)

(Showing layout of welded wire reinforcement and c bars)

TABLE

D	T	D_0 (min.)	t
36 (900)	See applicable Standards	D + 2T	6 (150)
4'-0" (1.2 m)			6 (150)
5'-0" (1.5 m)			8 (200)

GENERAL NOTES

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

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

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

Illinois Department of Transportation

PASSED January 1, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

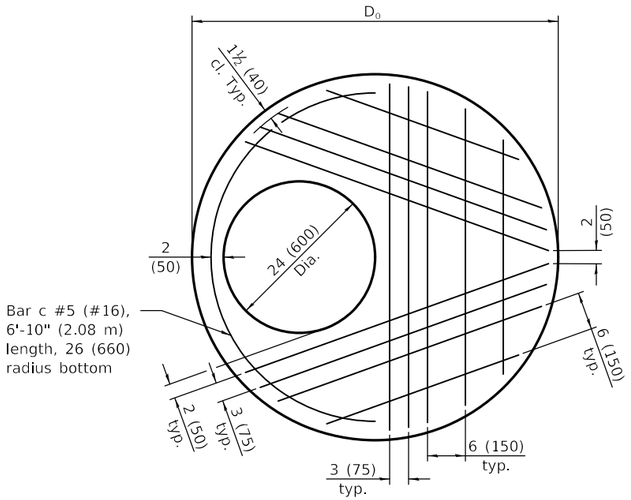
ISSUED 1-1-97

DATE	REVISIONS
1-1-19	Expanded / refined reinforcement
	options.
1-1-18	Revised for compliance with
	LRFD.

PRECAST REINFORCED CONCRETE FLAT SLAB TOP

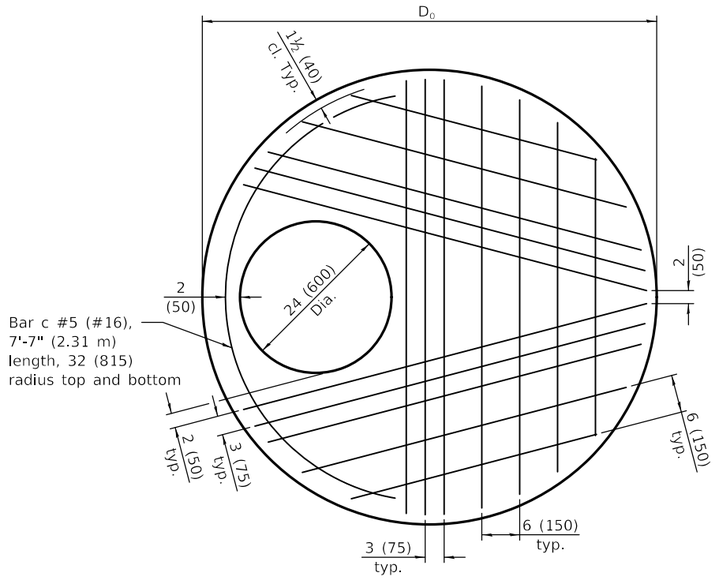
(Sheet 1 of 2)

STANDARD 602601-06



PLAN - FLAT SLAB TOP FOR D = 4'-0" (1.22 m)

(Showing layout of reinforcement bars and c bars)



PLAN - FLAT SLAB TOP FOR D = 5'-0" (1.52 m)

(Showing layout of bottom reinforcement bars and c bars)

FLAT SLAB TOP REINFORCEMENT FOR D = 36 (900)

Location	WWR (each direction)		Rebar		
	A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Bottom Mat	* 0.60 sq. in./ft. (1270 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#4 (#13)

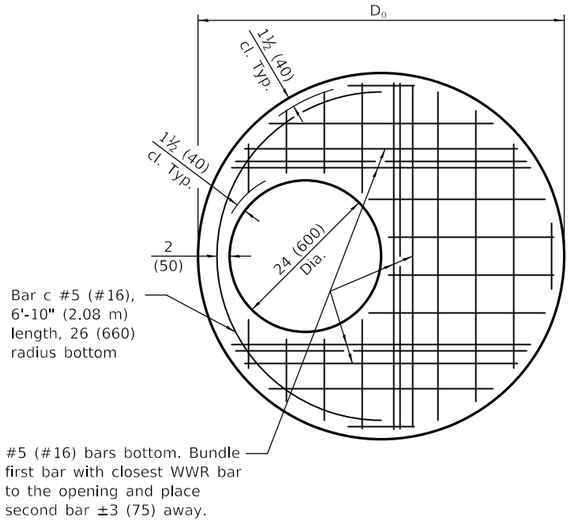
FLAT SLAB TOP REINFORCEMENT FOR D = 4'-0" (1.22 m)

Location	WWR (each direction)		Rebar		
	A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Bottom Mat	* 0.62 sq. in./ft. (1312 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#5 (#16)

FLAT SLAB TOP REINFORCEMENT FOR D = 5'-0" (1.52 m)

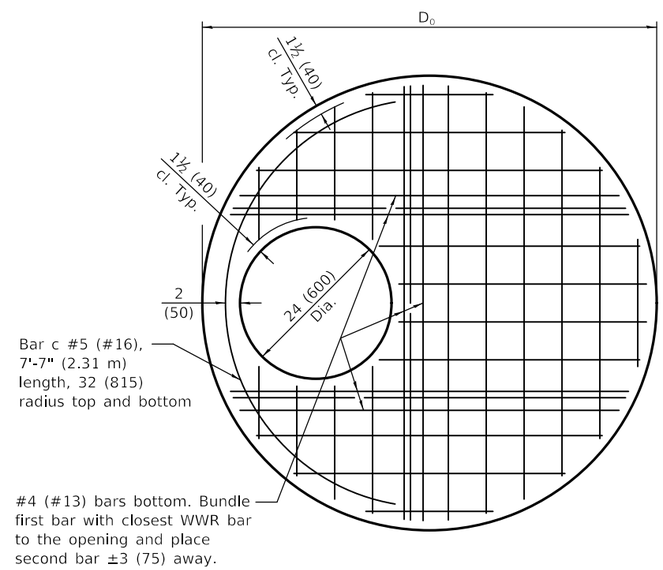
Location	WWR (each direction)		Rebar (each direction except as noted)		
	A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Top Mat	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#3 or #4 (#10) (#13)
Bottom Mat	* 0.40 sq. in./ft. (847 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#4 (#13)

* Only one layer of WWR permitted to avoid congestion.



PLAN - FLAT SLAB TOP FOR D = 4'-0" (1.22 m)

(Showing layout of welded wire reinforcement and c bars)



PLAN - FLAT SLAB TOP FOR D = 5'-0" (1.52 m)

(Showing layout of welded wire reinforcement and c bars)

Illinois Department of Transportation

PASSED January 1, 2019
ENGINEER OF POLICY AND PROCEDURES

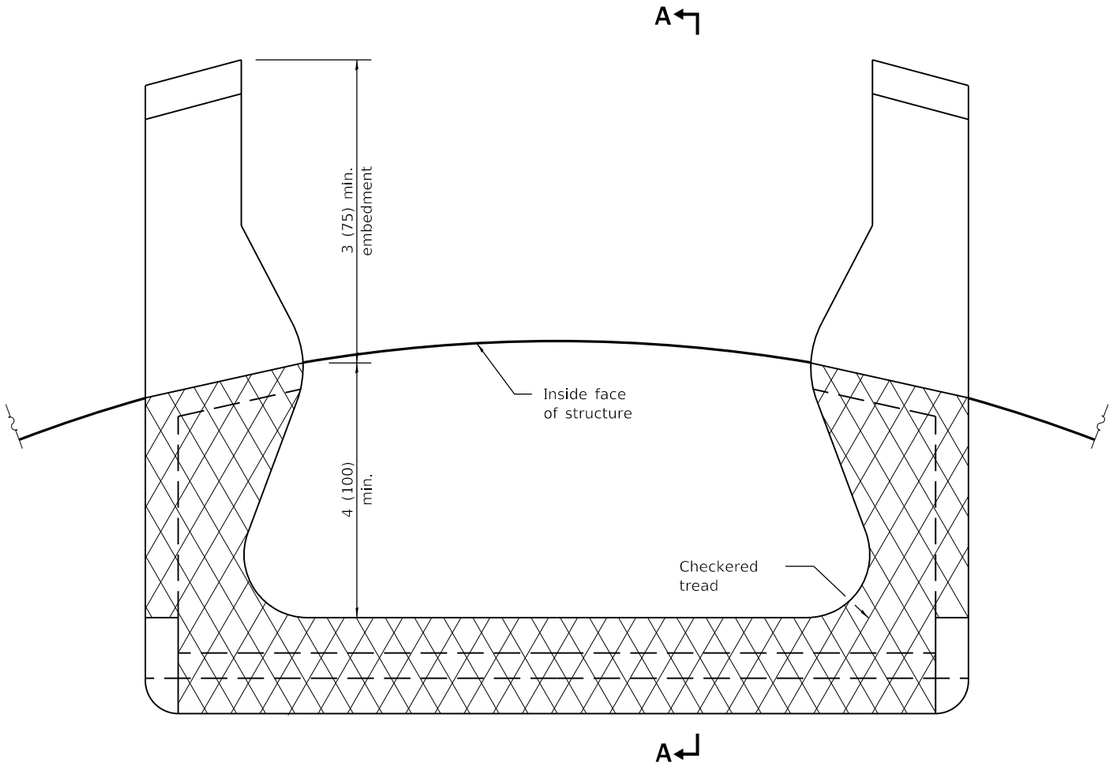
APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

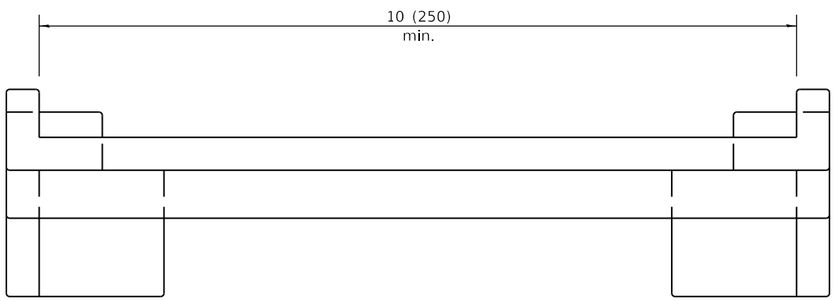
PRECAST REINFORCED CONCRETE FLAT SLAB TOP

STANDARD 602601-06

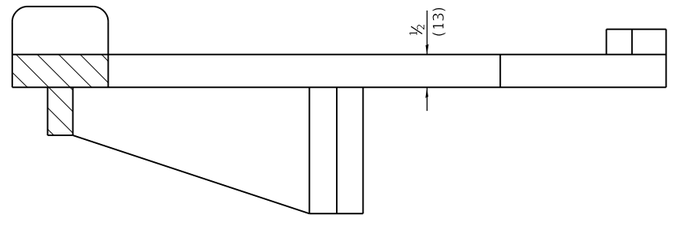
CAST IRON STEPS



PLAN VIEW



ELEVATION VIEW



SECTION A-A

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

Illinois Department of Transportation

PASSED January 1, 2009
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT

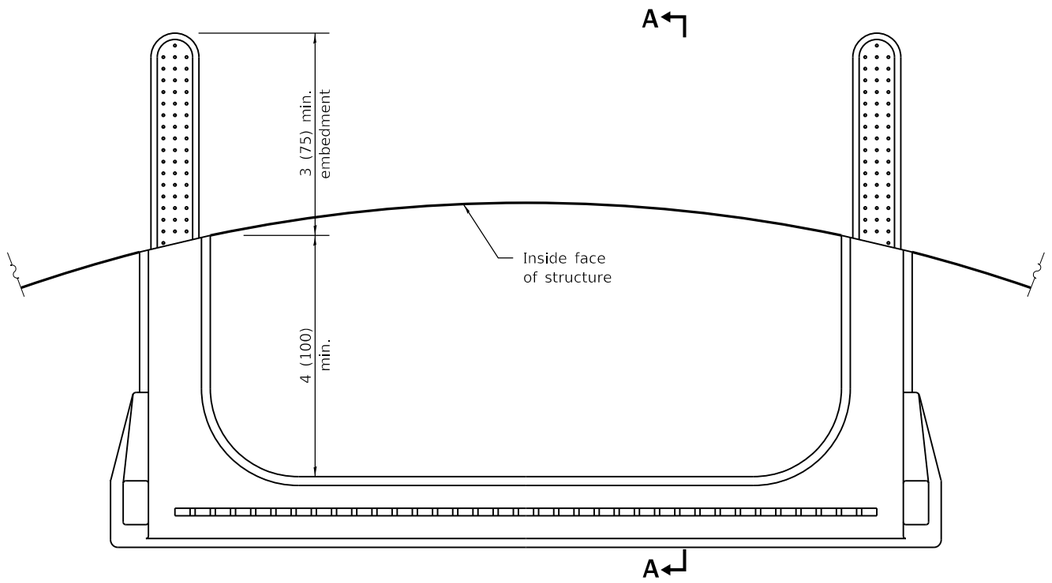
ISSUED 1-1-97

DATE	REVISIONS
1-1-09	Switched units to
	English (metric).
4-1-06	Revised title, drawings,
	and added plastic
	steps on sheet 2.

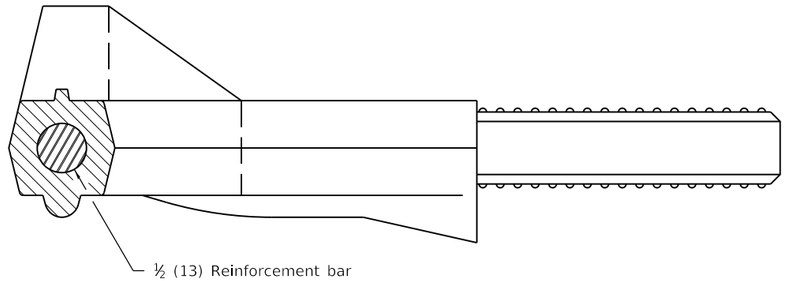
MANHOLE STEPS

(Sheet 1 of 2)

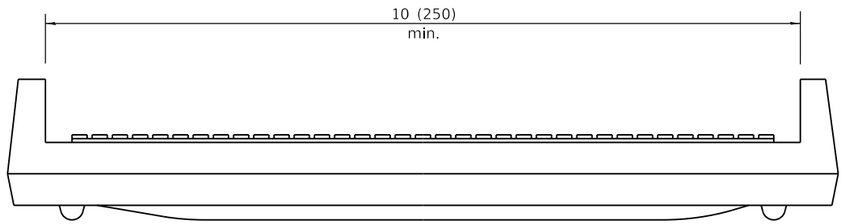
STANDARD 602701-02



PLAN VIEW



SECTION A-A



ELEVATION VIEW

Illinois Department of Transportation

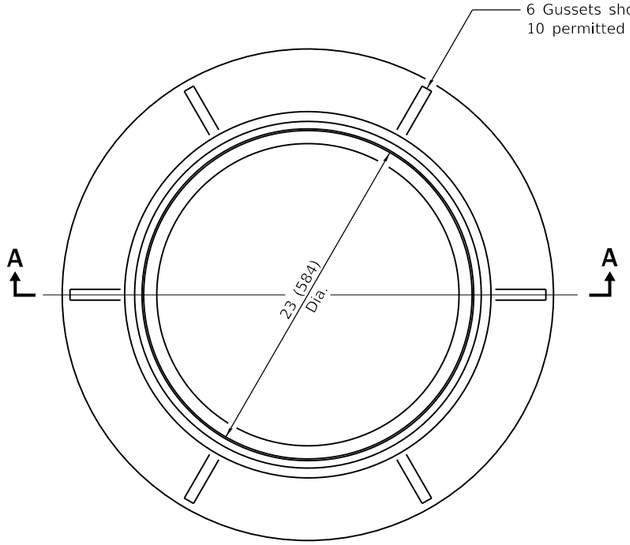
PASSED January 1, 2009
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

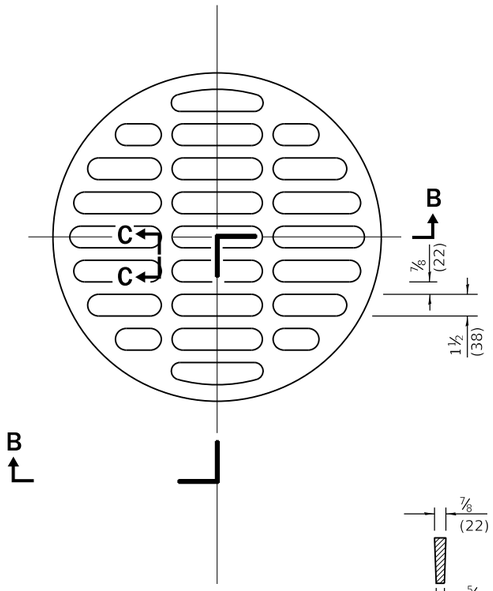
MANHOLE STEPS

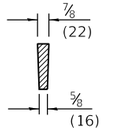
(Sheet 2 of 2)

STANDARD 602701-02

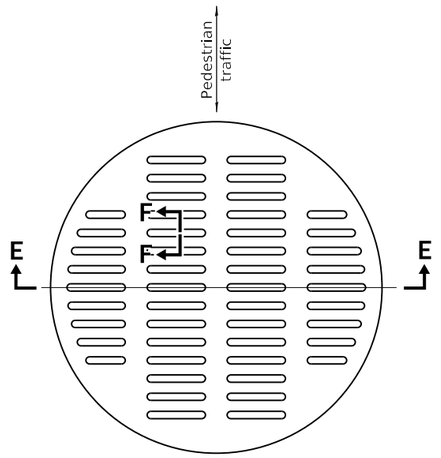


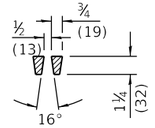
CAST FRAME



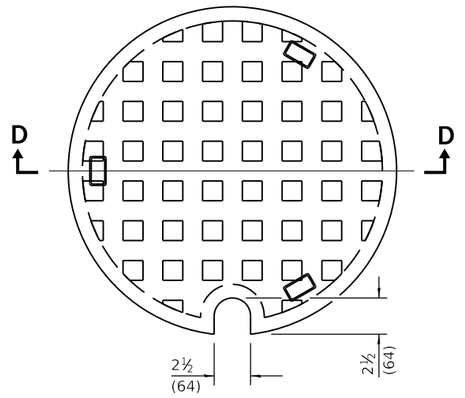


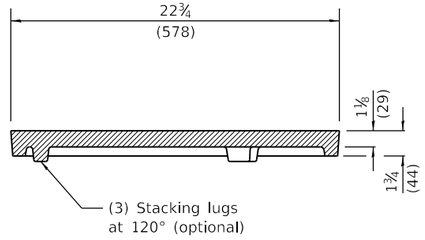
SECTION C-C





SECTION F-F

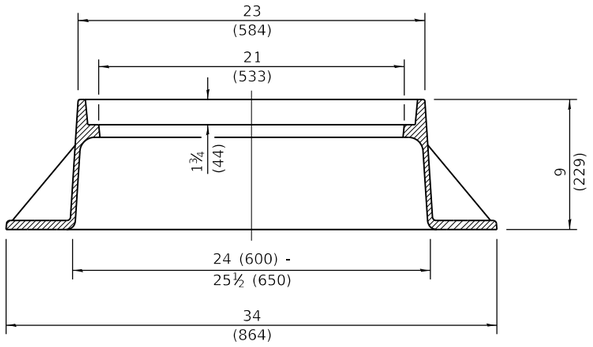




SECTION D-D

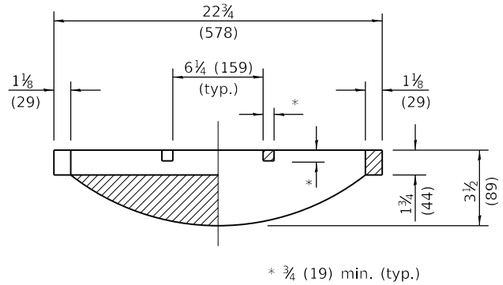
CAST CLOSED LID

Gray Iron Lid



SECTION A-A

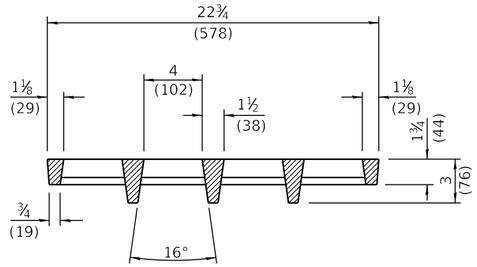
Gray Iron



* ¾ (19) min. (typ.)

SECTION B-B

CAST OPEN LID



SECTION E-E

ADA COMPLIANT CAST OPEN LID

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

Illinois Department of Transportation

PASSED January 1, 2020
ENGINEER OF POLICY AND PROCEDURES

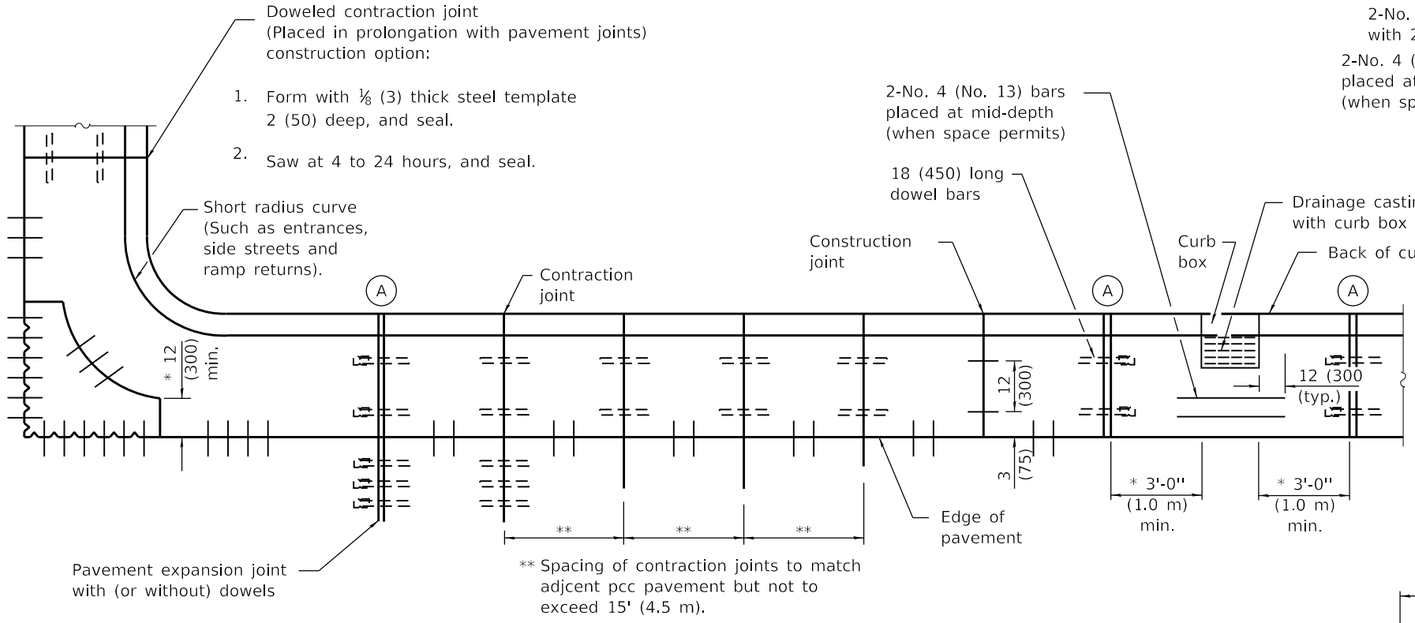
APPROVED January 1, 2020
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-20	Revised dimension in Section B-B
	of cast open lid.
1-1-15	Revised dimensioning of
	frame. Added ADA compliant
	open lid.
1-1-09	Switched units to English (metric).

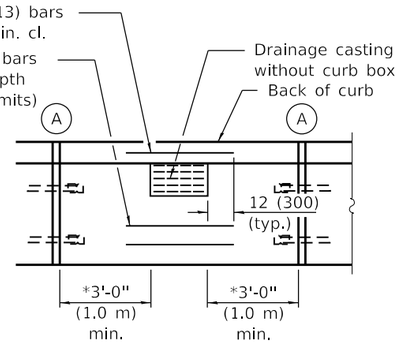
FRAME AND LIDS TYPE 1

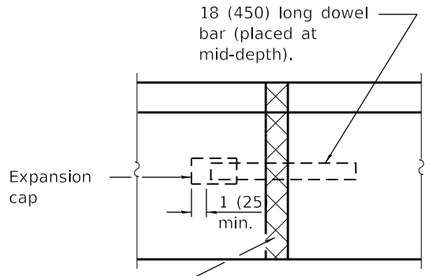
STANDARD 604001-05



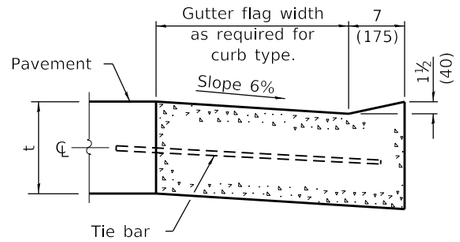
PLAN
ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE

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

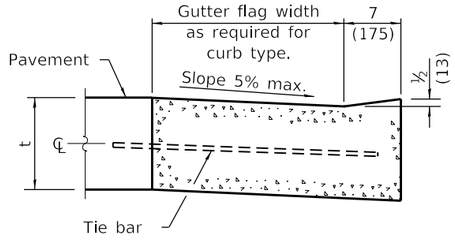




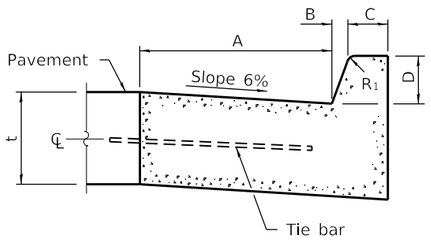
DETAIL (A) EXPANSION JOINT



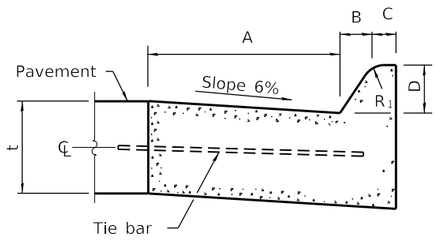
DEPRESSED CURB (TYPICAL)



DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED



BARRIER CURB



MOUNTABLE CURB

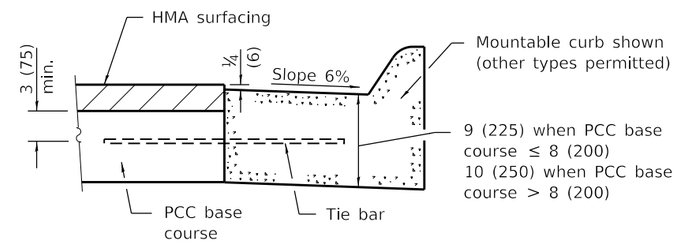
TABLE OF DIMENSIONS
BARRIER CURB

TYPE	A	B	C	D	R_1
B-6.06 * (B-15.15)	6 (150)	1 (25)	6 (150)	6 (150)	1 (25)
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)

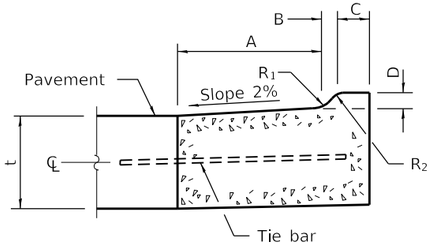
* For corner islands only.

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



ADJACENT TO PCC BASE COURSE WITH HMA SURFACING



M-2.06 (M-5.15) and M-2.12 (M-5.30)

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 36 (900) centers in accordance with details for longitudinal construction joint shown on Standard 420001.

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

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

See Standard 606301 for details of corner islands.

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

Illinois Department of Transportation

PASSED January 1, 2022
Michael Brand
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2022
ENGINEER OF DESIGN AND ENVIRONMENT

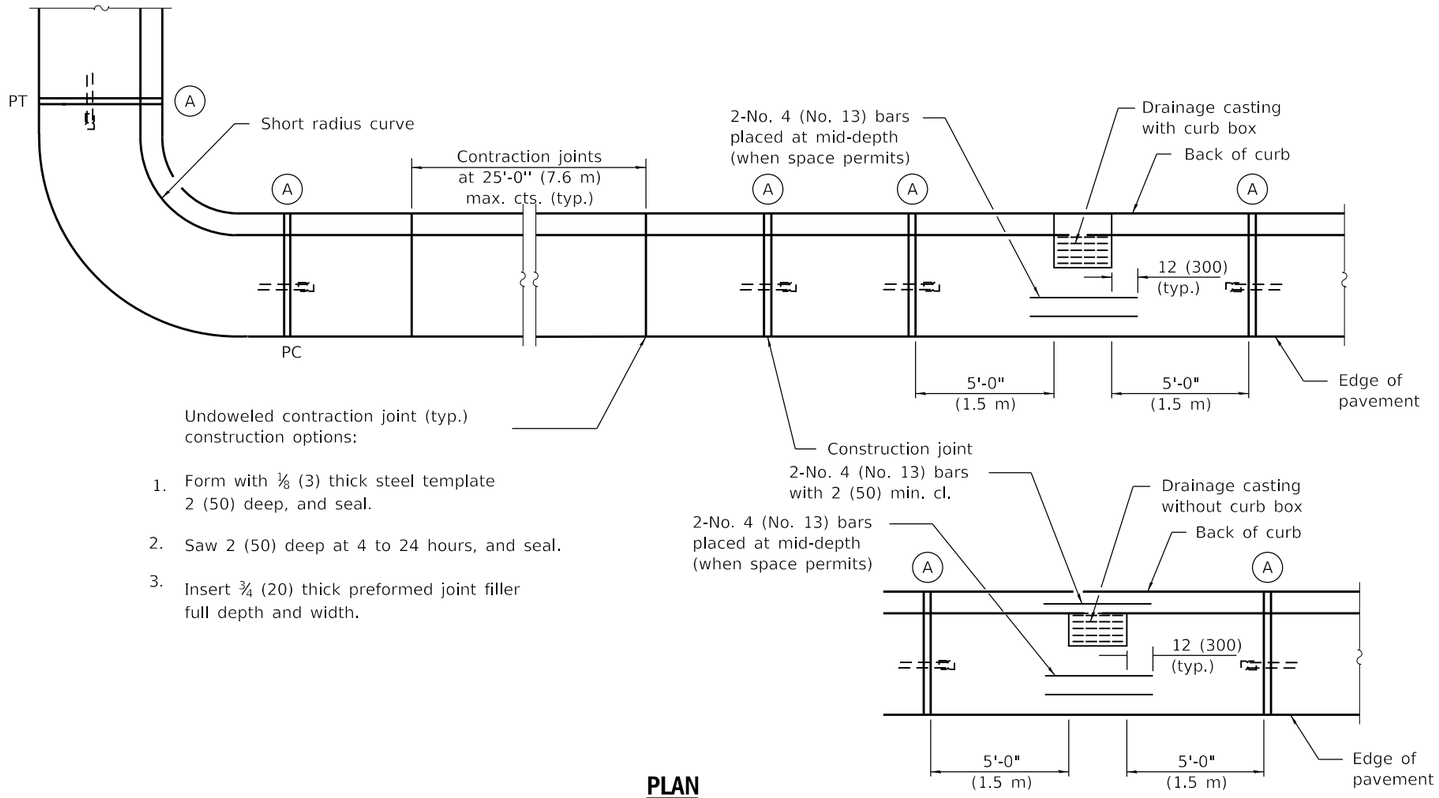
ISSUED 1-1-97

DATE	REVISIONS
1-1-22	Revised contraction joint spacing
	adjacent to pcc pavement.
1-1-18	Revised General Note for tie
	bar spacing to 36 (900) cts.

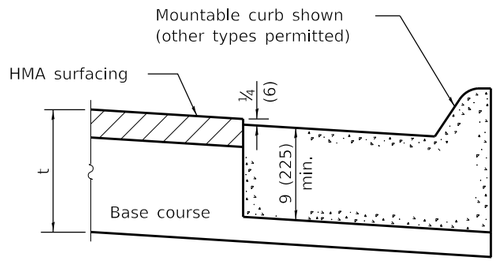
CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

(Sheet 1 of 2)

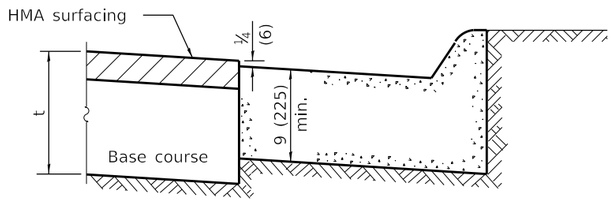
STANDARD 606001-08



PLAN

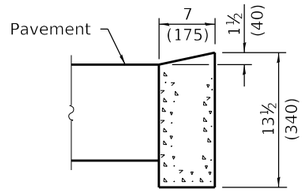


ON DISTURBED SUBGRADE

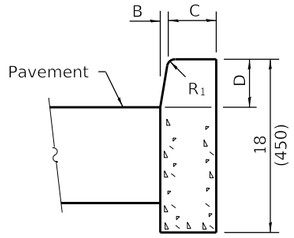


ON UNDISTURBED SUBGRADE

ADJACENT TO FLEXIBLE PAVEMENT

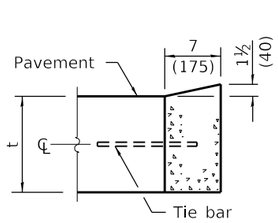


DEPRESSED CURB

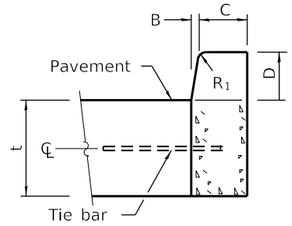


BARRIER CURB

ADJACENT TO FLEXIBLE PAVEMENT



DEPRESSED CURB



BARRIER CURB

ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE

CONCRETE CURB TYPE B

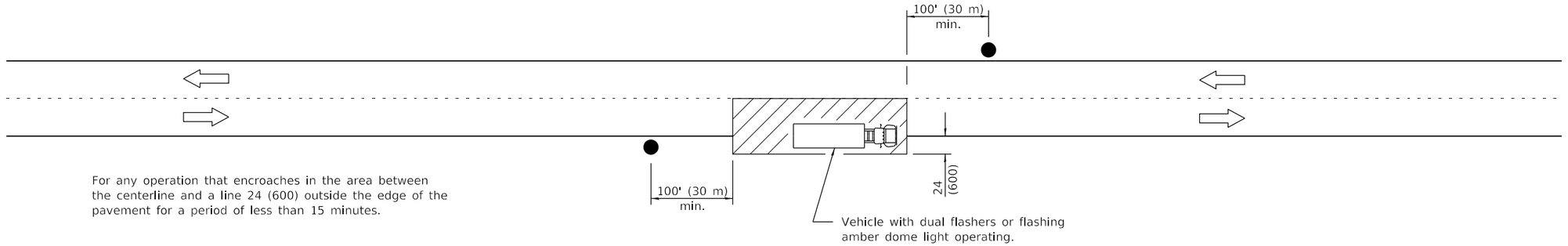
Illinois Department of Transportation

PASSED January 1, 2022
Michael Brand
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2022
ENGINEER OF DESIGN AND ENVIRONMENT

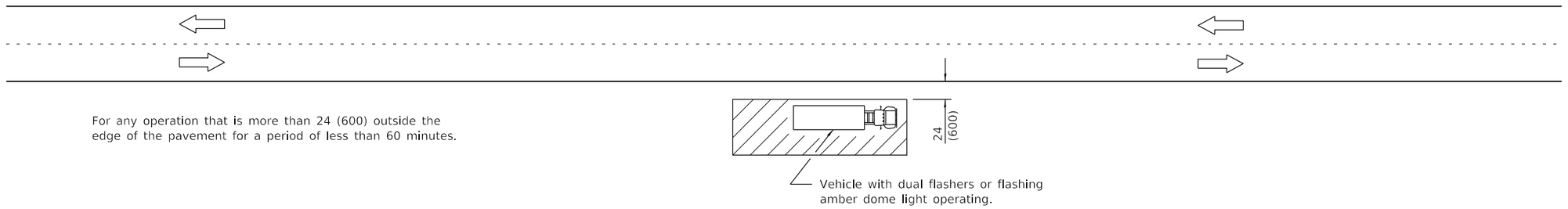
ISSUED 1-1-07

CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

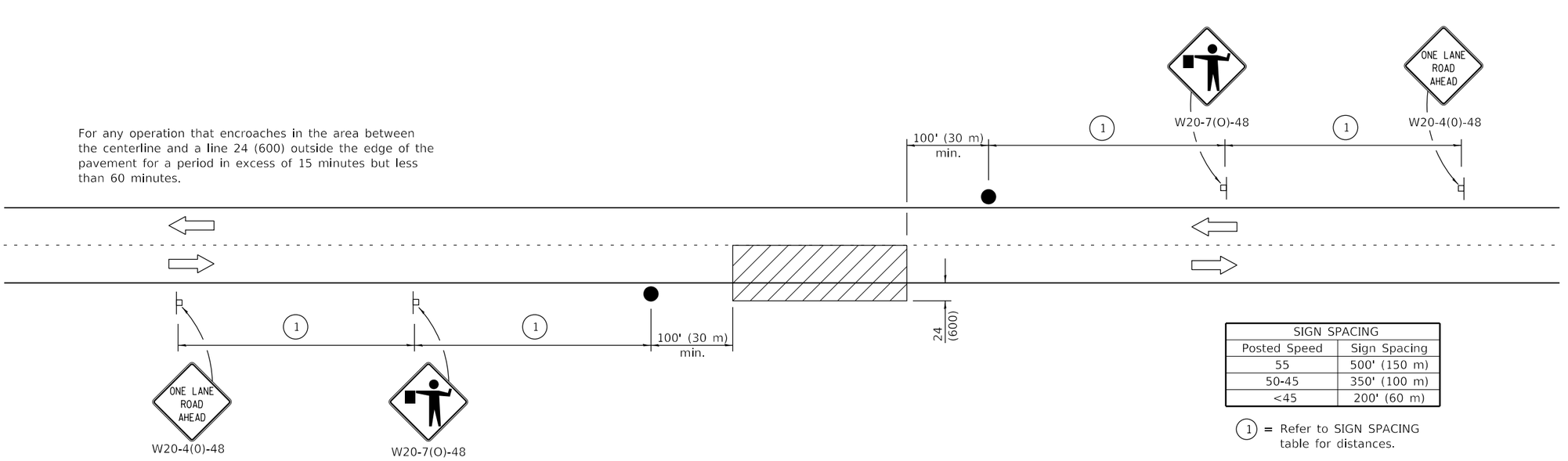
STANDARD 606001-08



For any operation that encroaches in the area between the centerline and a line 24 (600) outside the edge of the pavement for a period of less than 15 minutes.



For any operation that is more than 24 (600) outside the edge of the pavement for a period of less than 60 minutes.



For any operation that encroaches in the area between the centerline and a line 24 (600) outside the edge of the pavement for a period in excess of 15 minutes but less than 60 minutes.

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

(1) = Refer to SIGN SPACING table for distances.

TYPICAL APPLICATIONS

Marking patches
Field survey
String line
Utility operations
Cleaning up debris on pavement

SYMBOLS

Work area

Sign on portable or permanent support

Flagger with traffic control sign

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

Illinois Department of Transportation

PASSED January 1, 2011
ENGINEER OF SAFETY ENGINEERING

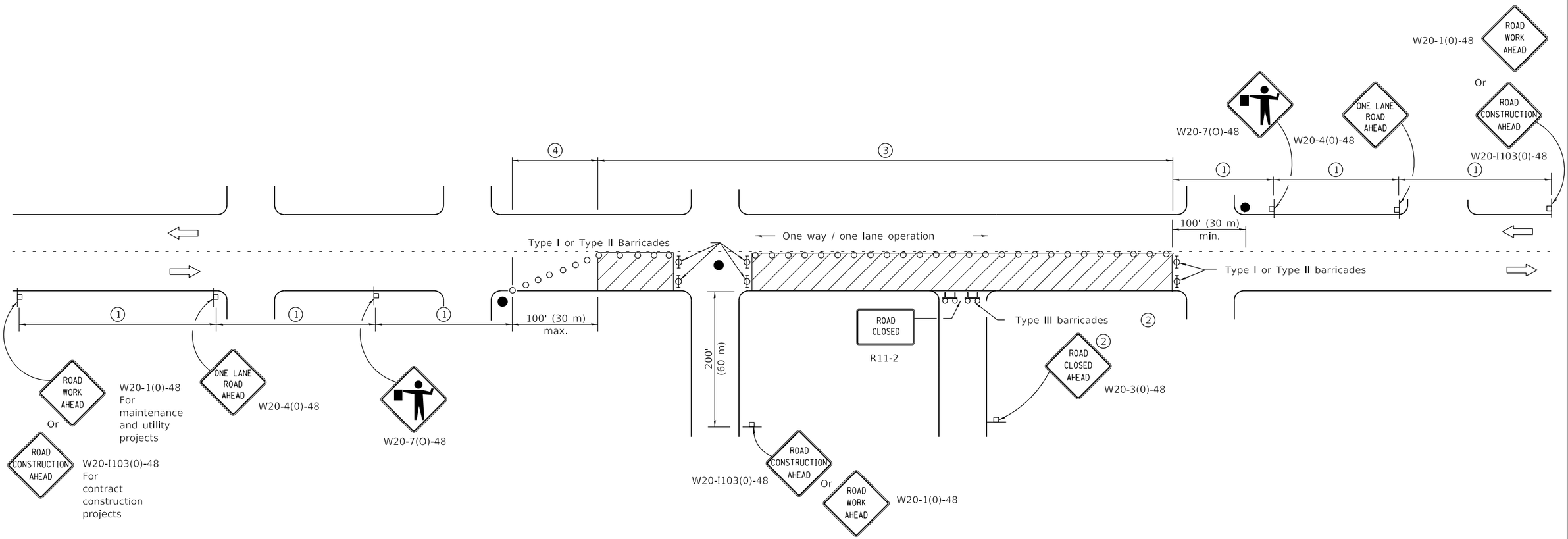
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to
	English (metric).

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

STANDARD 701301-04



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

PASSED January 1, 2011
ENGINEER OF SAFETY ENGINEERING

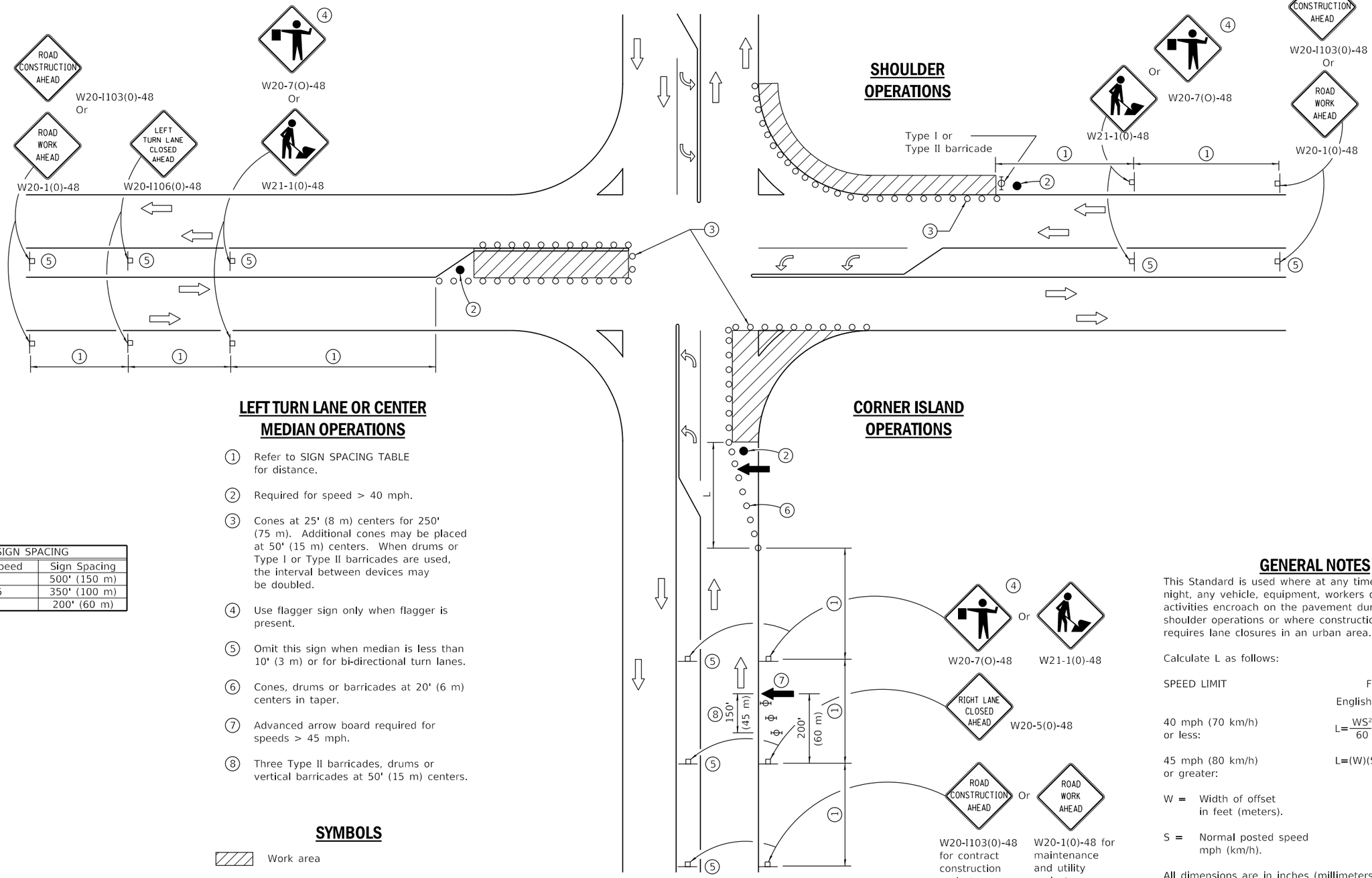
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

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



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

1. Refer to SIGN SPACING TABLE for distance.
2. Required for speed > 40 mph.
3. Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
4. Use flagger sign only when flagger is present.
5. Omit this sign when median is less than 10' (3 m) or for bi-directional turn lanes.
6. Cones, drums or barricades at 20' (6 m) centers in taper.
7. Advanced arrow board required for speeds > 45 mph.
8. Three Type II barricades, drums or vertical barricades at 50' (15 m) centers.

SYMBOLS

- Work area
- Cone, drum or barricade
- Sign on portable or permanent support
- Arrow board
- Barricade or drum with flashing light
- Flagger with traffic control sign

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

Calculate L as follows:

SPEED LIMIT	FORMULAS English	FORMULAS (Metric)
40 mph (70 km/h) or less:	$L=\frac{WS^2}{60}$	$L=\frac{WS^2}{150}$
45 mph (80 km/h) or greater:	L=(W)(S)	L=0.65(W)(S)

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

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

Illinois Department of Transportation

PASSED April 1, 2016
ENGINEER OF SAFETY ENGINEERING

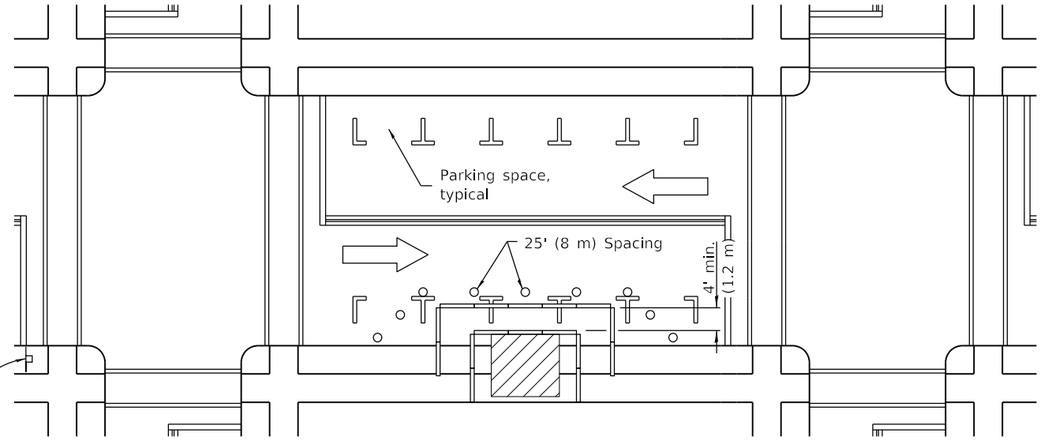
APPROVED April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
4-1-16	Corrected sign number for
	LEFT TURN LANE CLOSED
	AHEAD.
1-1-14	Added devices at arrow
	board upstream from taper.
	Rev. workers sign number.

URBAN LANE CLOSURE, MULTILANE INTERSECTION

STANDARD 701701-10



① ROAD CONSTRUCTION AHEAD

W20-I103(0)-48 for contract construction projects

Or

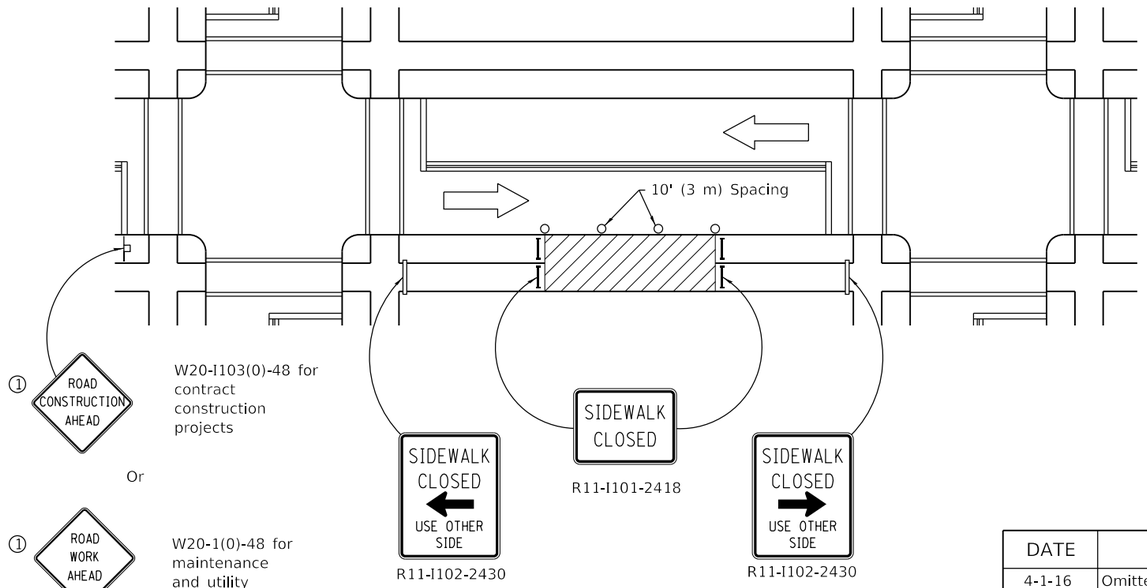
① ROAD WORK AHEAD

W20-1(0)-48 for maintenance and utility projects

SIDEWALK DIVERSION

SYMBOLS

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



① ROAD CONSTRUCTION AHEAD

W20-I103(0)-48 for contract construction projects

Or

① ROAD WORK AHEAD

W20-1(0)-48 for maintenance and utility projects

SIDEWALK CLOSURE

① Omit whenever duplicated by road work traffic control.

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

PASSED April 1, 2016
ENGINEER OF SAFETY ENGINEERING

APPROVED April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

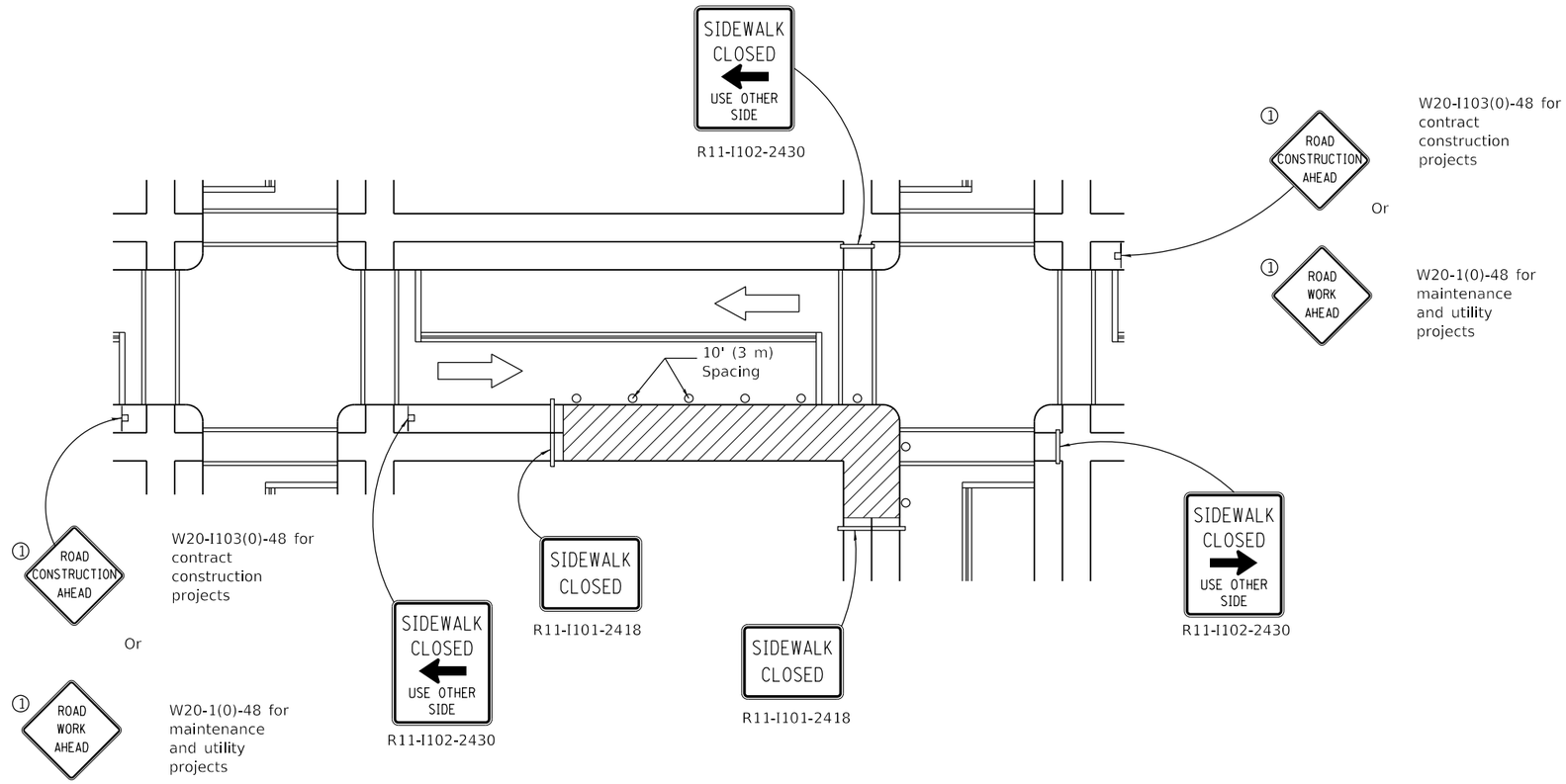
ISSUED 1-1-97

DATE	REVISIONS
4-1-16	Omitted orange safety fence
	from standard as this is
	covered in the std. spec.
1-1-12	Added SIDEWALK DIVERSION.
	Modified appearance of
	plan views. Renamed Std.

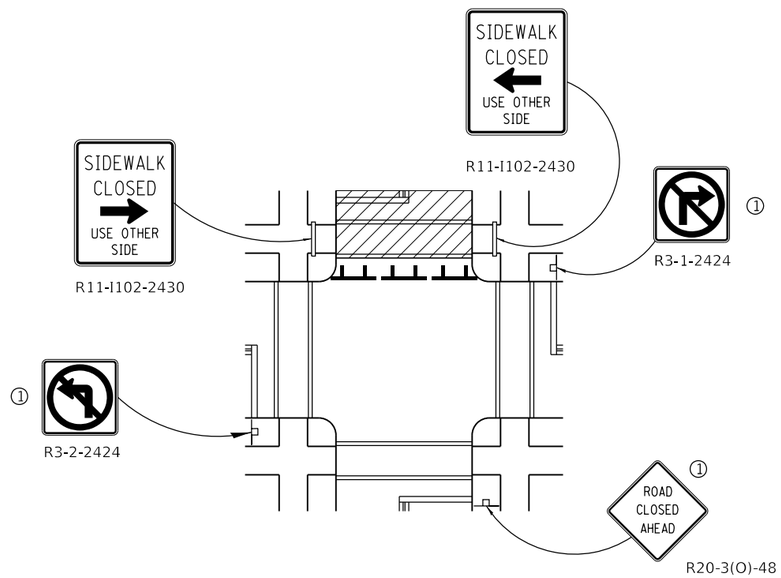
SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

STANDARD 701801-06



CORNER CLOSURE



CROSSWALK CLOSURE

Illinois Department of Transportation

PASSED April 1, 2016
ENGINEER OF SAFETY ENGINEERING

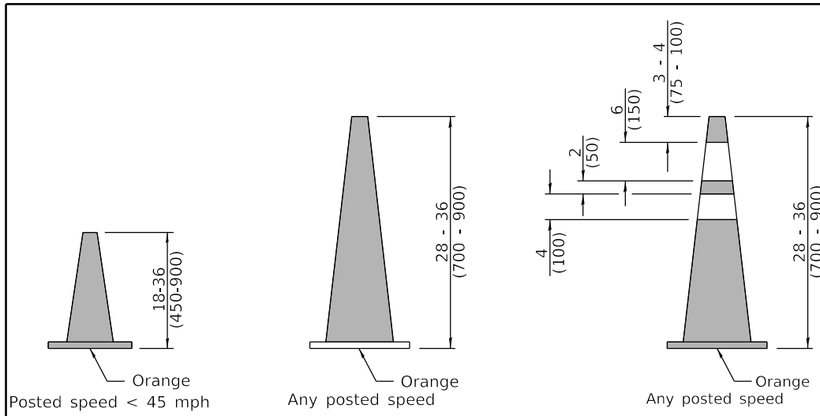
APPROVED April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 2 of 2)

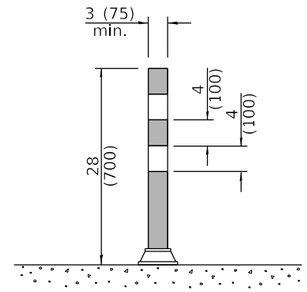
STANDARD 701801-06



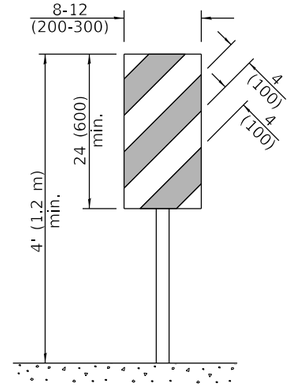
DAYTIME USE

DAY OR NIGHTTIME USE

CONES

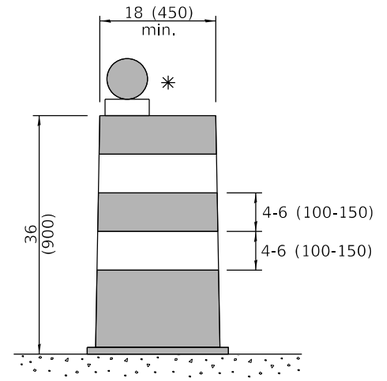


TUBULAR MARKER

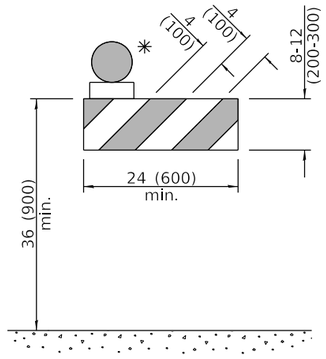


VERTICAL PANEL

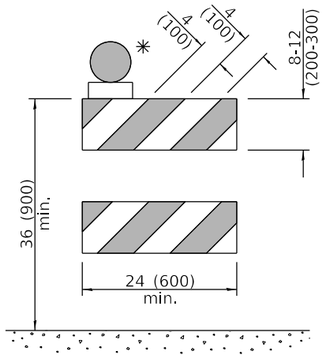
POST MOUNTED



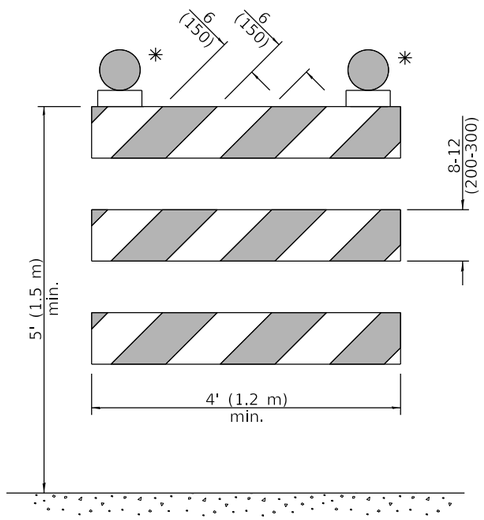
DRUM



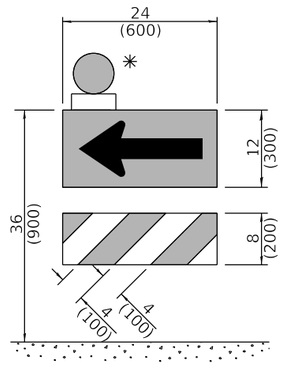
TYPE I BARRICADE



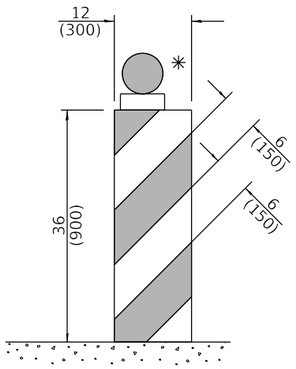
TYPE II BARRICADE



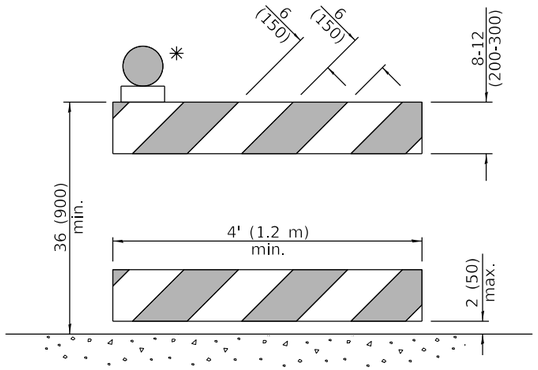
TYPE III BARRICADE



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, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

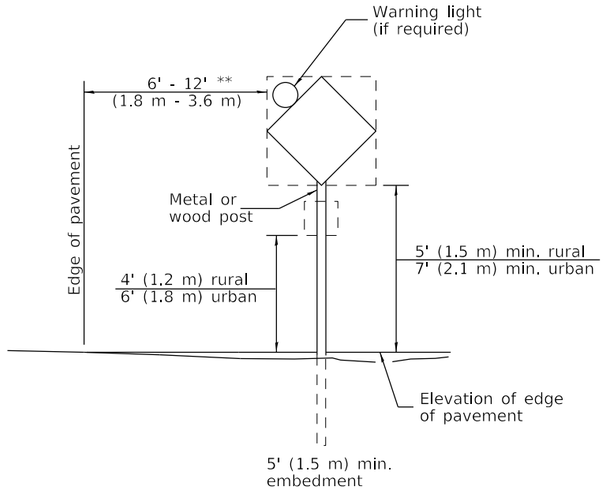
ISSUED 1-1-13

DATE	REVISIONS
1-1-19	Revised cone usage and
	added cones >36" (900 m) height.
1-1-18	Revised END WORK ZONE
	SPEED LIMIT sign from
	orange to white background.

TRAFFIC CONTROL DEVICES

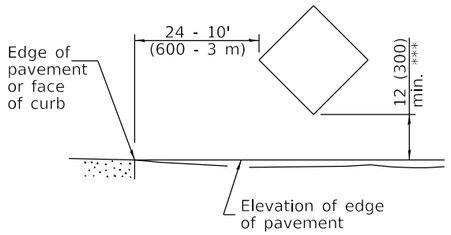
(Sheet 1 of 3)

STANDARD 701901-08



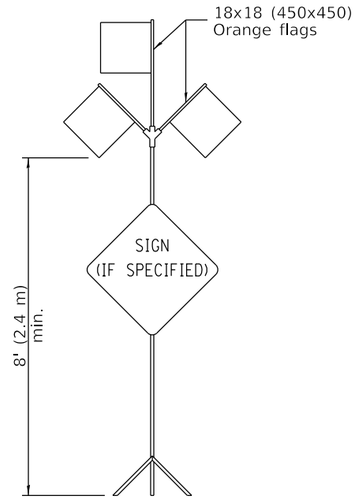
POST MOUNTED SIGNS

** 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.



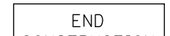
SIGNS ON TEMPORARY SUPPORTS

*** 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

G20-I104(0)-6036



G20-I105(0)-6024

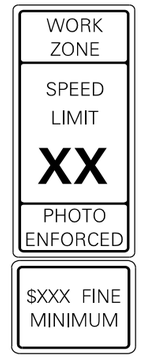
This signing is required for all projects 2 miles (3200 m) or more in length.

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



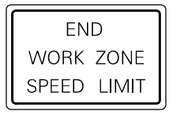
W21-III5(0)-3618

R2-1-3648

R10-I108p-3618 ****

R2-I106p-3618

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

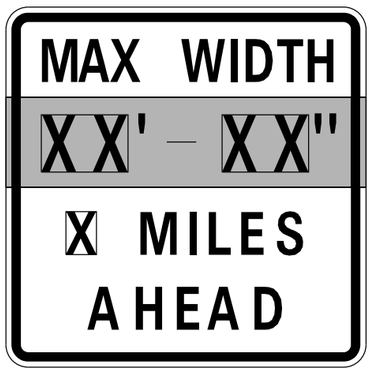


G20-I103-6036

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

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

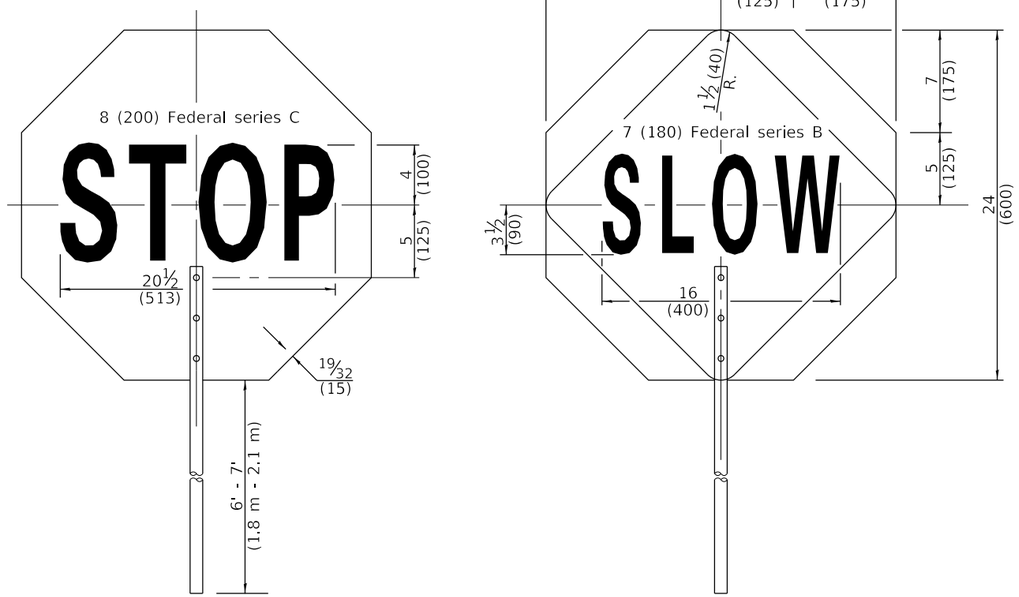
**** R10-I108p shall only be used along roadways under the juristiction of the State.



W12-I103-4848

WIDTH RESTRICTION SIGN

XX'-XX" width and X miles are variable.



FLAGGER TRAFFIC CONTROL SIGN

Illinois Department of Transportation

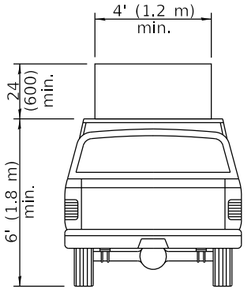
APPROVED January 1, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

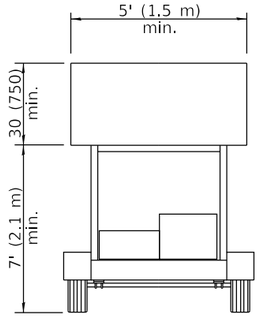
ISSUED 1-1-13

TRAFFIC CONTROL DEVICES

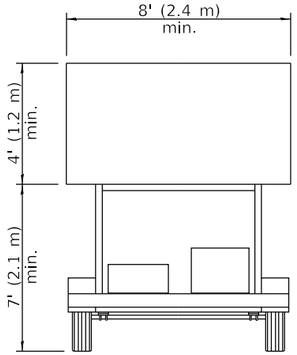
STANDARD 701901-08



**TYPE A
ROOF
MOUNTED**

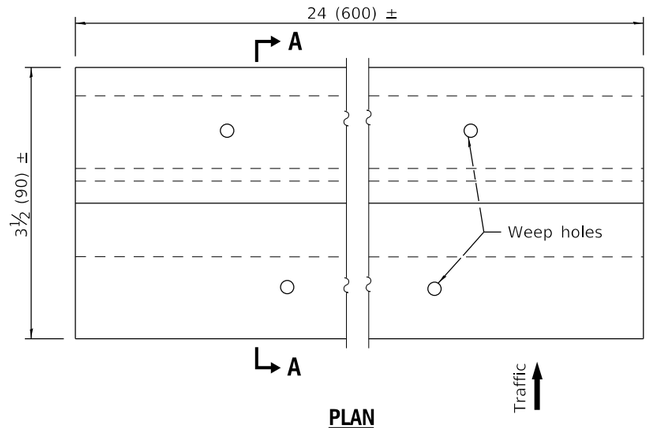


**TYPE B
ROOF OR TRAILER
MOUNTED**

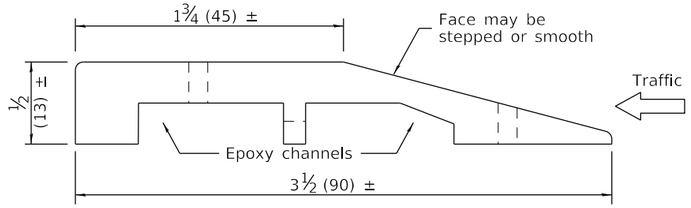


**TYPE C
TRAILER
MOUNTED**

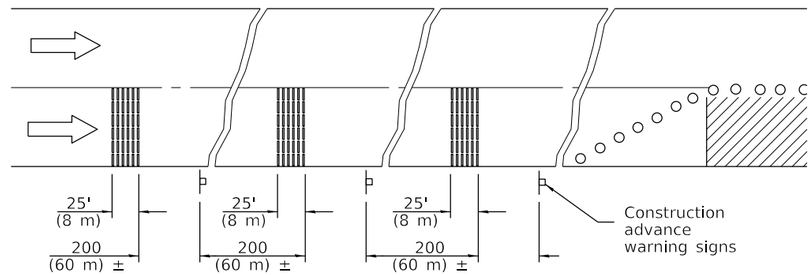
ARROW BOARDS

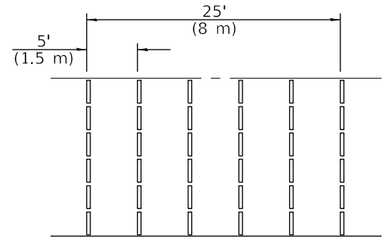


PLAN



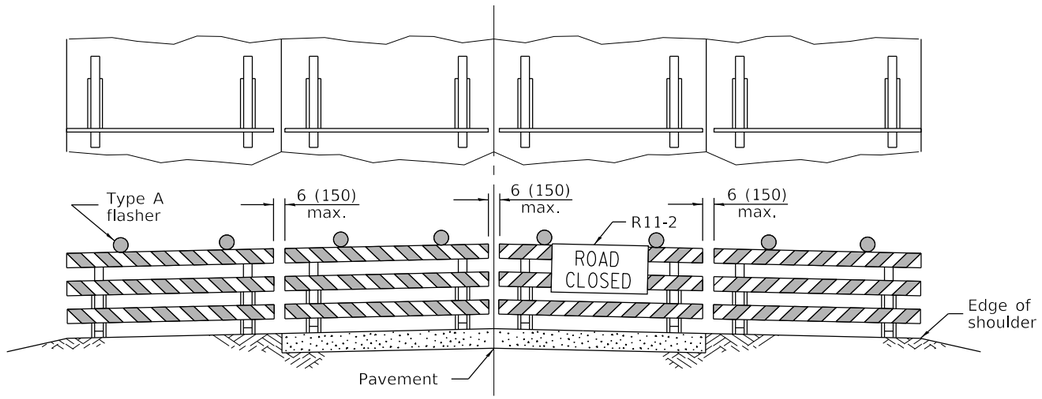
SECTION A-A





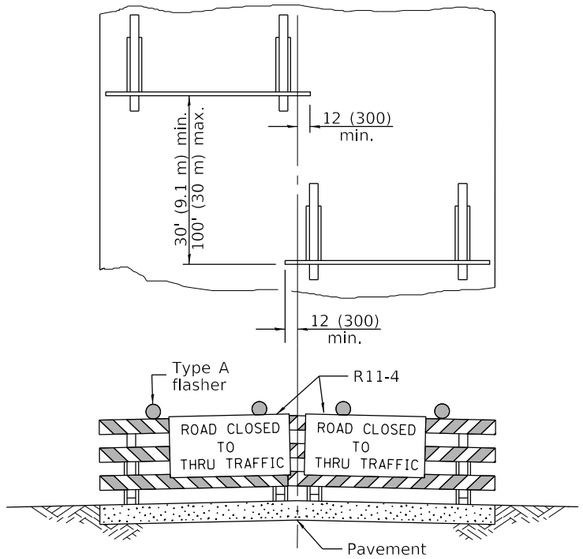
TYPICAL INSTALLATION

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, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

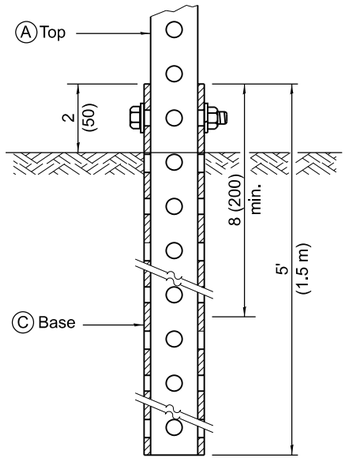
APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

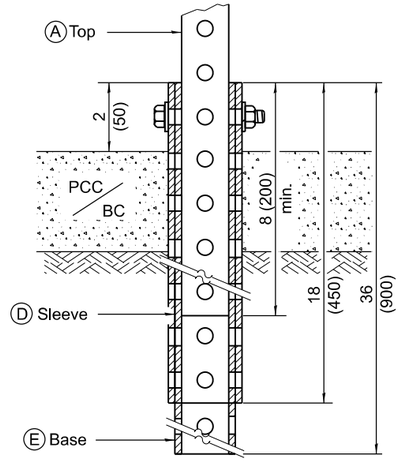
TRAFFIC CONTROL DEVICES

(Sheet 3 of 3)

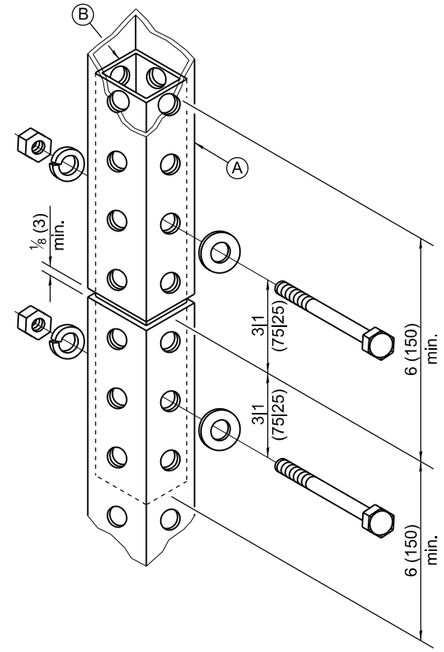
STANDARD 701901-08



GROUND MOUNT DETAIL



PAVEMENT MOUNT DETAIL



SPLICE DETAIL

Ⓐ	2 x 2 x var. (51 x 51 var.)
Ⓑ	1¾ x 1¾ x 12 (44 x 44 x 300)
Ⓒ	2¼ x 2¼ x 60 (57 x 57 x 1500)
Ⓓ	2½ x 2½ x 18 (64 x 64 x 450)
Ⓔ	2¼ x 2¼ x 36 (57 x 57 x 900)

GENERAL NOTES

All bolts ⅜ (M10) hex head zinc or cadmium plated.

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

Illinois Department of Transportation

APPROVED January 1, 2009
ENGINEER OF OPERATIONS

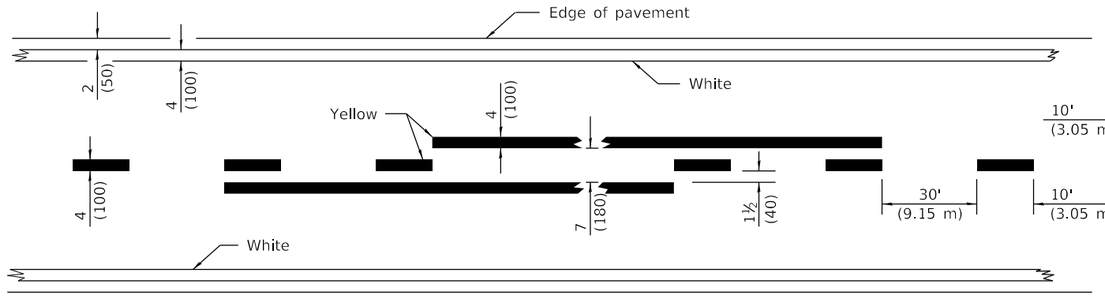
APPROVED January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-07

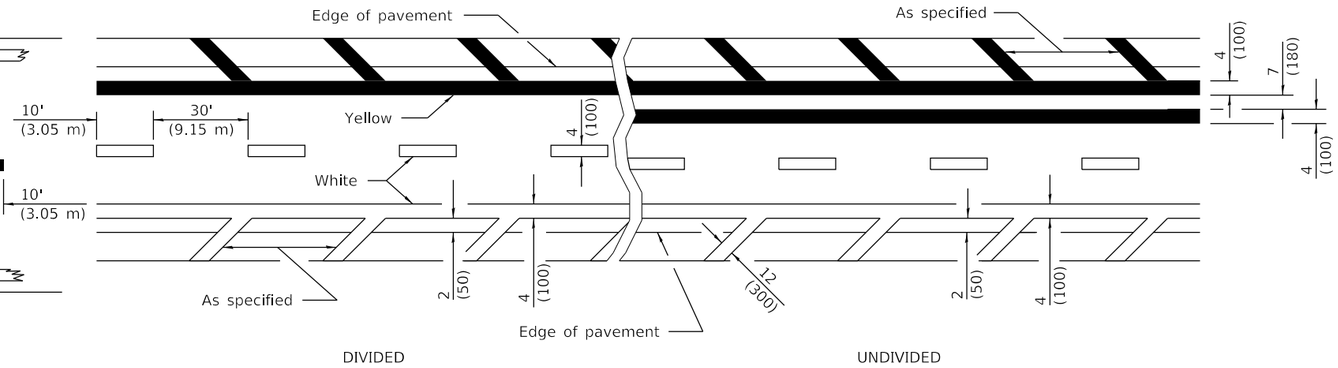
DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	New Standard. Used to be part
	of Standard 72006.

TELESCOPING STEEL SIGN SUPPORT

STANDARD 728001-01

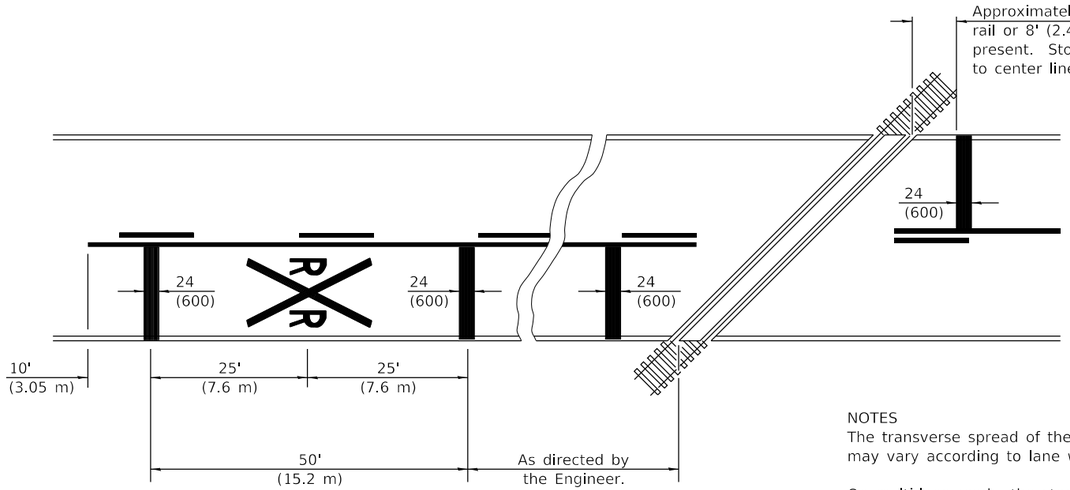


2 LANE



MULTI LANE

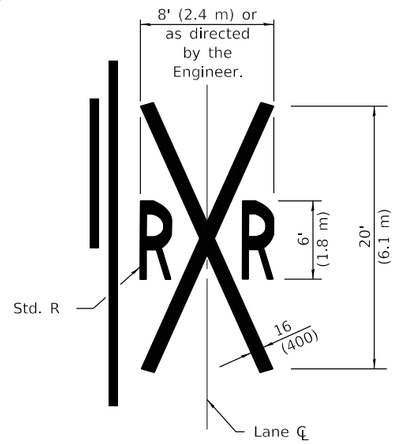
LANE AND EDGE LINES



NOTES
The transverse spread of the "X" may vary according to lane width.

On multi-lane roads, the stop lines shall extend across all approach lanes and separate RXR symbols shall be placed adjacent to each other in each lane.

When the pavement marking symbol is used, a portion of the symbol should be located directly adjacent to the Advance Warning Sign (W10-1) as placed by Table 2C-4, Condition B of the MUTCD.



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

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

Illinois Department of Transportation

PASSED January 1, 2015
ENGINEER OF OPERATIONS

APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

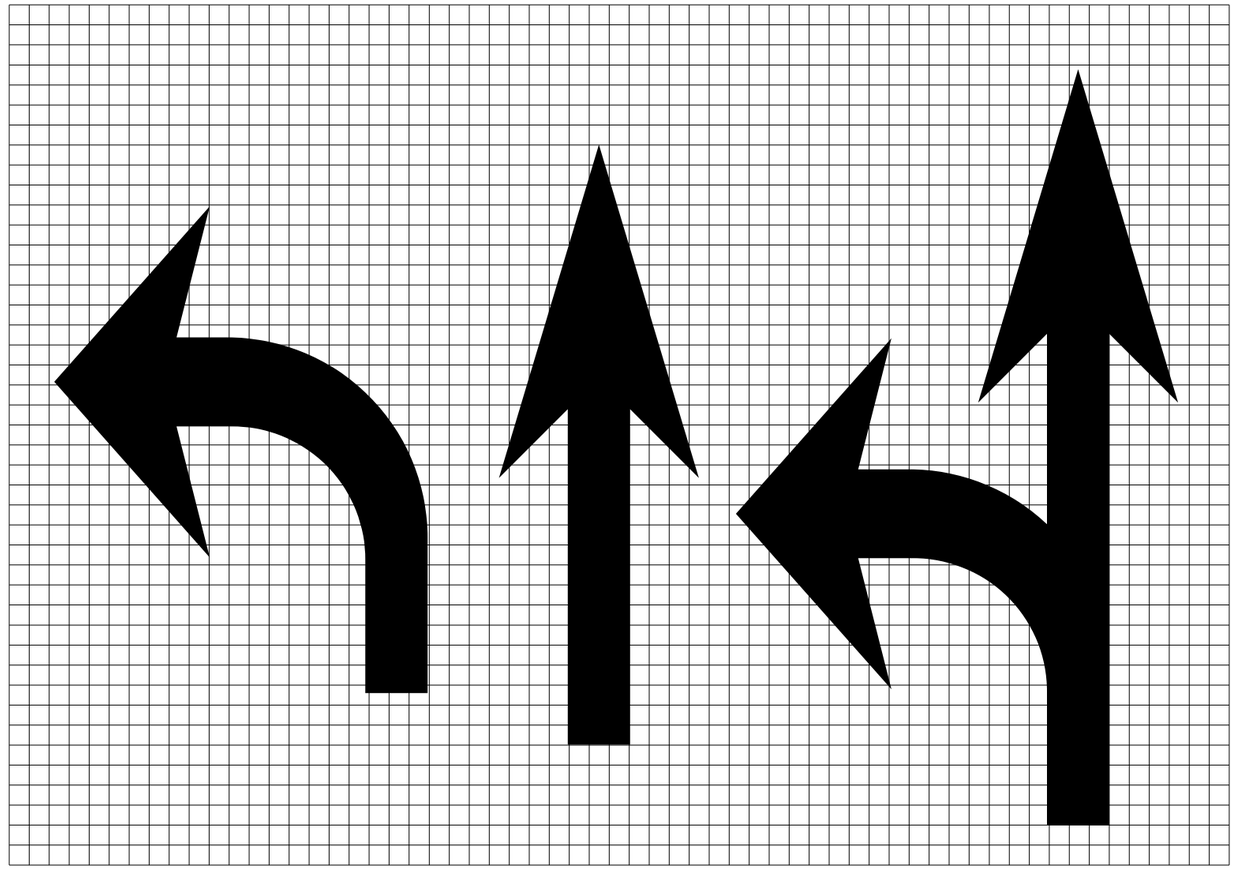
DATE	REVISIONS
1-1-15	Added symbols. Revised
	bike symbol. Revised note
	for stop line at RR crossing.
1-1-14	Added bike symbol. Renamed
	'LANE DROP ARROW' detail to
	'LANE-REDUCTION ARROW'.

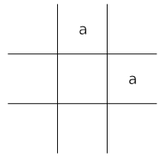
TYPICAL PAVEMENT MARKINGS

(Sheet 1 of 3)

STANDARD 780001-05

A B C D E F G H I J
K L M N O P Q R S
T U V W X Y Z 1 2
3 4 5 6 7 8 9 0





Legend Height	Arrow Size	a
6' (1.8 m)	Small	2.9 (74)
8' (2.4 m)	Large	3.8 (96)

The space between adjacent letters or numerals should be approximately 3 (75) for 6' (1.8 m) legend and 4 (100) for 8' (2.4 m) legend.

LETTER AND ARROW GRID SCALE

Illinois Department of Transportation

PASSED January 1, 2015
ENGINEER OF OPERATIONS

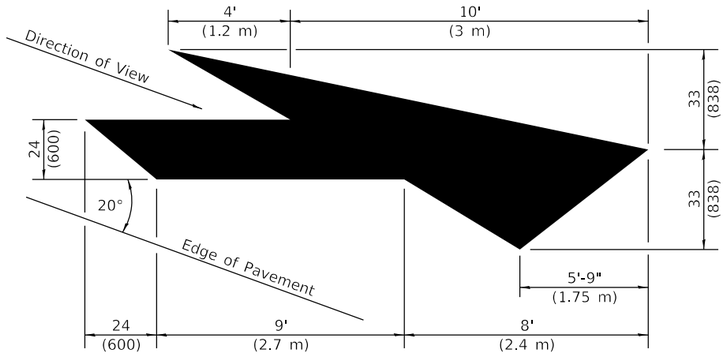
APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

TYPICAL PAVEMENT MARKINGS

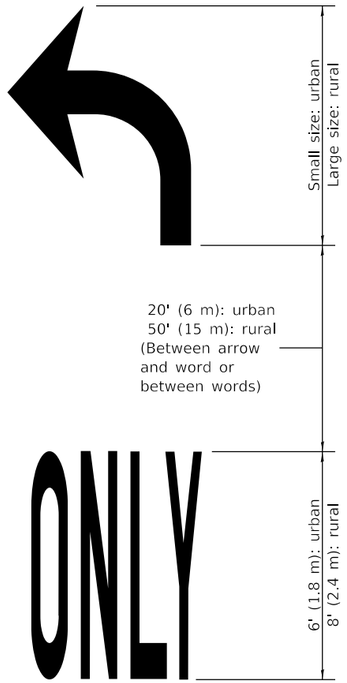
(Sheet 2 of 3)

STANDARD 780001-05

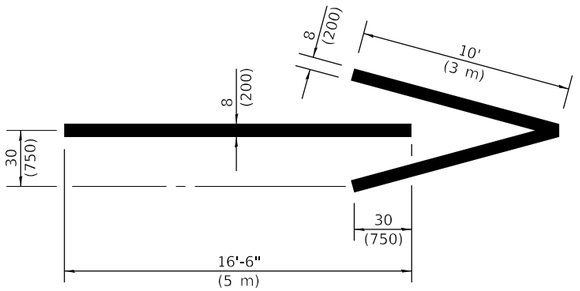


LANE-REDUCTION ARROW

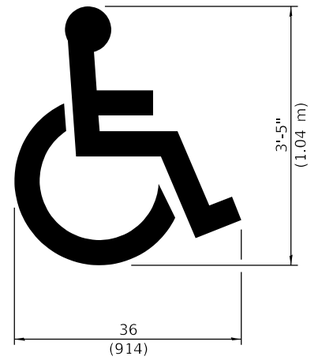
Right lane-reduction arrow shown.
Use mirror image for left lane.



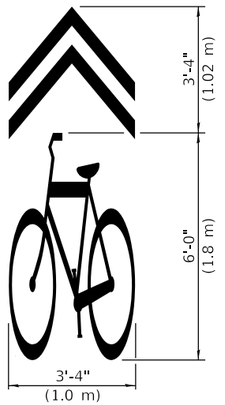
WORD AND ARROW LAYOUT



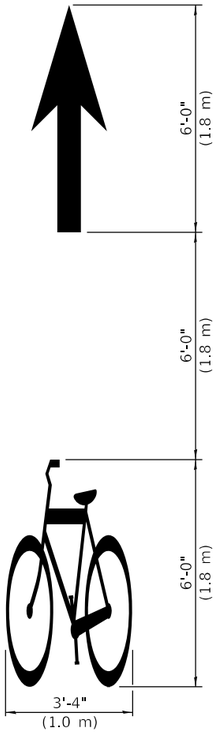
WRONG WAY ARROW



INTERNATIONAL SYMBOL OF ACCESSILITY



SHARED LANE SYMBOL



BIKE SYMBOL

(Arrow is optional.)

Illinois Department of Transportation

PASSED January 1, 2015
ENGINEER OF OPERATIONS

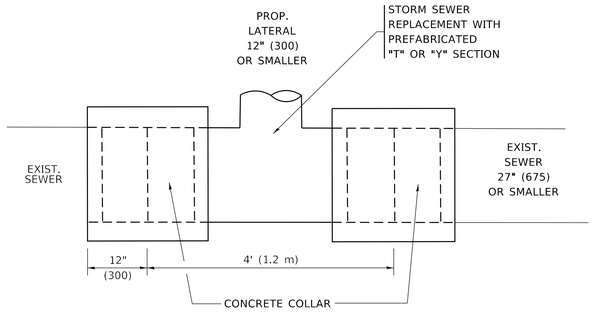
APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

TYPICAL PAVEMENT MARKINGS

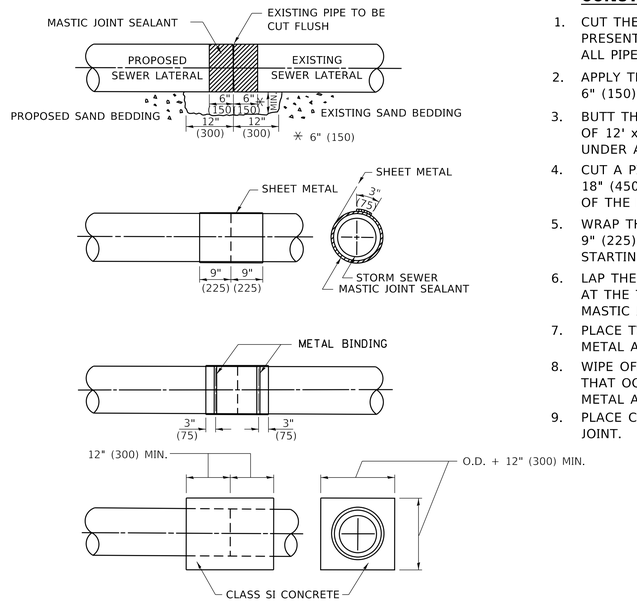
(Sheet 3 of 3)

STANDARD 780001-05



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER
OF 27" (675) OR SMALLER



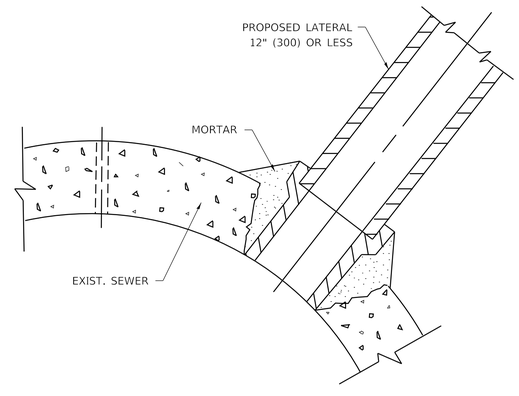
DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.

* ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



DETAIL "C"

PROPOSED LATERAL
CONNECTION TO EXISTING SEWER
OF 30" (750) OR LARGER

NOTES:

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
- A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
- B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

USER NAME = footemj	DESIGNED - M. DE YONG	REVISED - M. DE YONG 5-8-92	
	DRAWN -	REVISED - R. SHAH 09-09-94	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. SHAH 10-25-94	
PLOT DATE = 3/27/2019	DATE - 07-25-90	REVISED - R. SHAH 06-12-96	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD500-01 (BD-7)	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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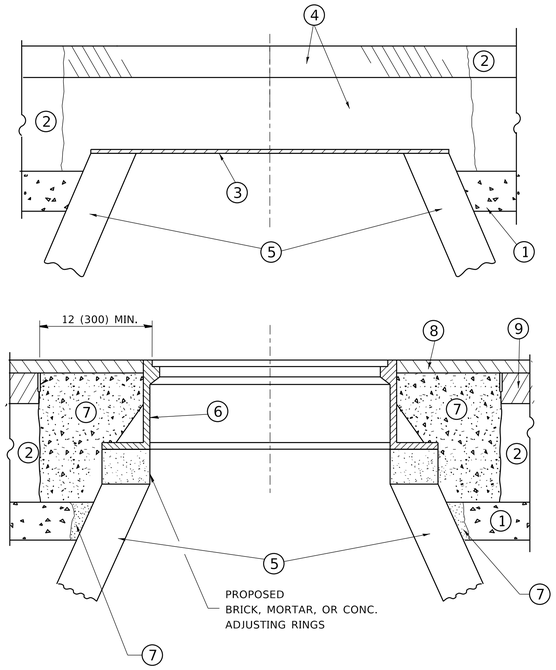

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1 ✱ CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

✱ UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

1. SUB-BASE GRANULAR MATERIAL
2. EXISTING PAVEMENT
3. 36 (900) DIAMETER METAL PLATE
4. PROPOSED CRUSHED STONE AND HMA SURFACE MIX
5. EXISTING STRUCTURE
6. FRAME AND LID (SEE NOTES)
7. CLASS PP-1 ✱CONCRETE
8. PROPOSED HMA SURFACE COURSE
9. PROPOSED HMA BINDER COURSE

NOTES

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

USER NAME = footemj	DESIGNED - R. SHAH	REVISED - R. WEDEMAN 05-14-04
	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. BORO 03-09-11
PLOT DATE = 3/27/2019	DATE - 10-25-94	REVISED - R. BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD600–03 (BD–8)	CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

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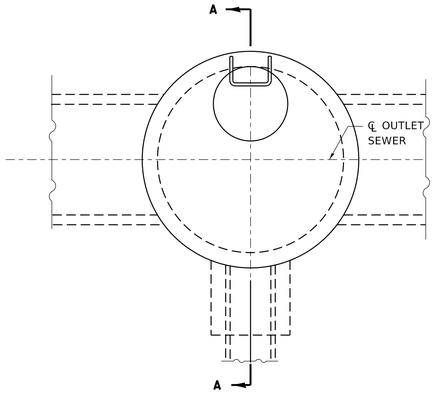
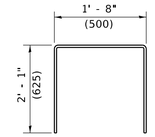


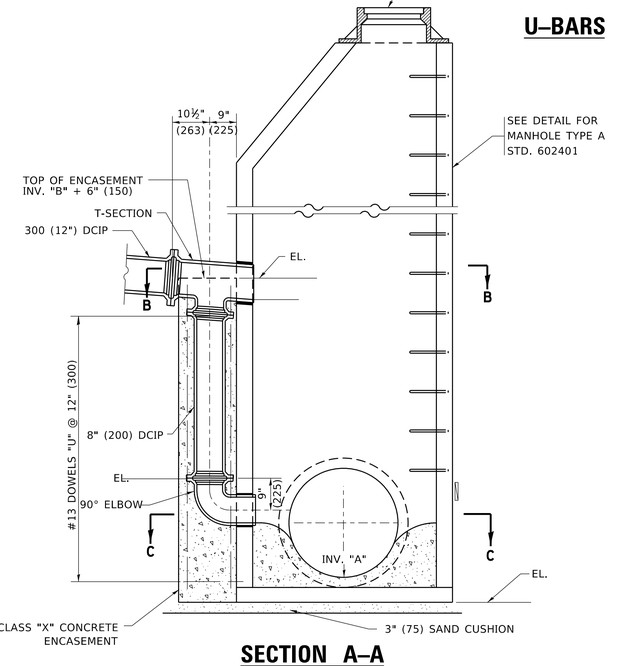
PLAN

FOR LOCATION SEE DRAINAGE PLANS

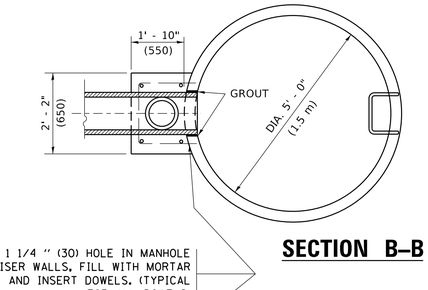
ENCASEMENT DETAILS				
DROP M.H. LOCATION STA., OFFSET				
INV. "A"				
INLET PIPE				
INV. "B"				
INV. "C"				
A				
B				
"V" BAR LENGTH				
NO. OF "U" BARS				
REINF. BARS				
CLASS "SI" CONC. CUBIC METER (CU. YD.)				



U–BARS

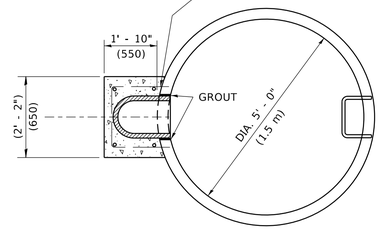


SECTION A–A



SECTION B–B

DRILL 1 1/4 " (30) HOLE IN MANHOLE RISER WALLS, FILL WITH MORTAR AND INSERT DOWELS. (TYPICAL FOR ALL DOWELS)



SECTION C–C

TYPE A1-1 MANHOLE WITH 1 DROP AND DEPTH UP TO 10' (3 m)
TYPE A1-2 " " 1 " " " FROM 10' TO 15' (3 m TO 1.5 m)
TYPE A1-3 " " 1 " " " FROM 15' TO 20' (1.5 m TO 6 m)
TYPE A1-4 " " 1 " " " OVER 20' (6 m)

TYPE A2-1 MANHOLE WITH 2 DROPS AND DEPTH UP TO 10' (3 m)
TYPE A2-2 " " 2 " " " FROM 10' TO 15' (3 m TO 1.5 m)
TYPE A2-3 " " 2 " " " FROM 15' TO 20' (1.5 m to 6 m)
TYPE A2-4 " " 2 " " " OVER 20' (6 m)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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	DRAWN -	REVISED -	
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PLOT DATE = 3/27/2019	DATE - 10-18-02	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DROP MANHOLE DETAILS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD600–05	**(BD–16)**	CONTRACT NO.	
		ILLINOIS	FED. AID PROJECT	

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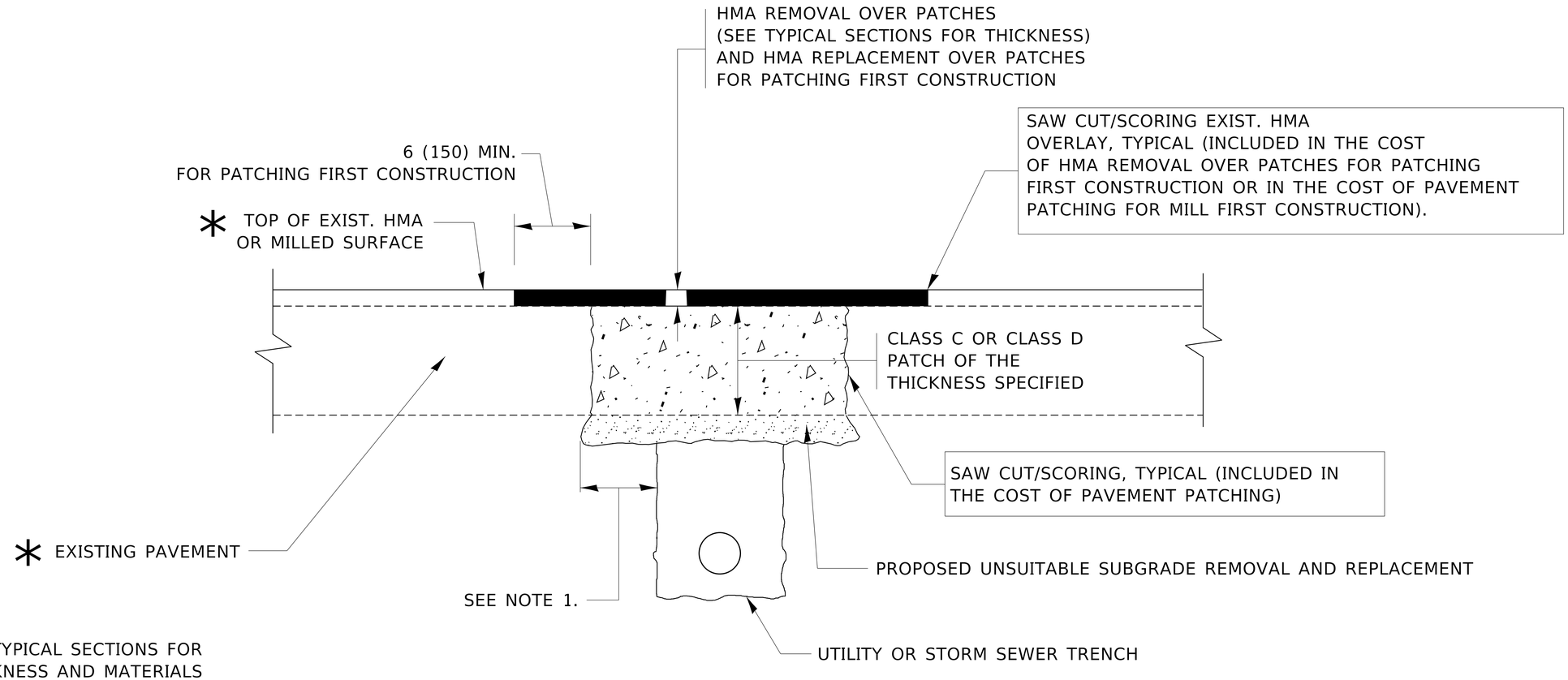

* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = footemj	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	
	DRAWN -	REVISED - R. BORO 01-01-07	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. BORO 09-04-07	
PLOT DATE = 3/27/2019	DATE - 10-25-94	REVISED - K. ENG 10-27-08	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD400–04 (BD–22)	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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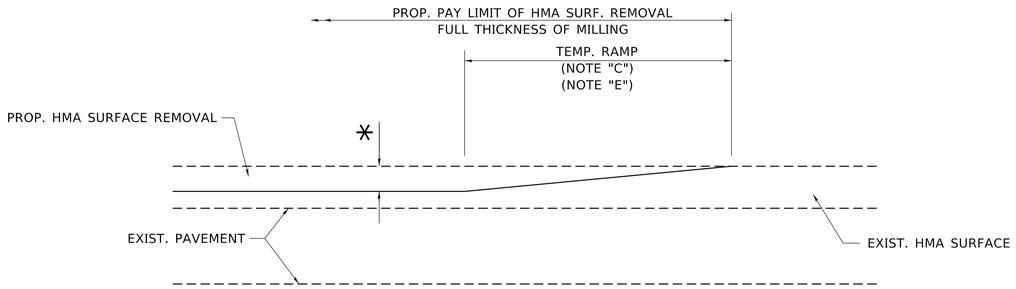
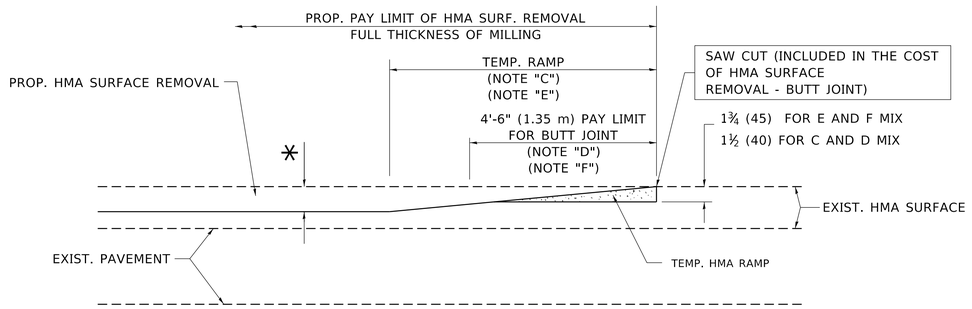


MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

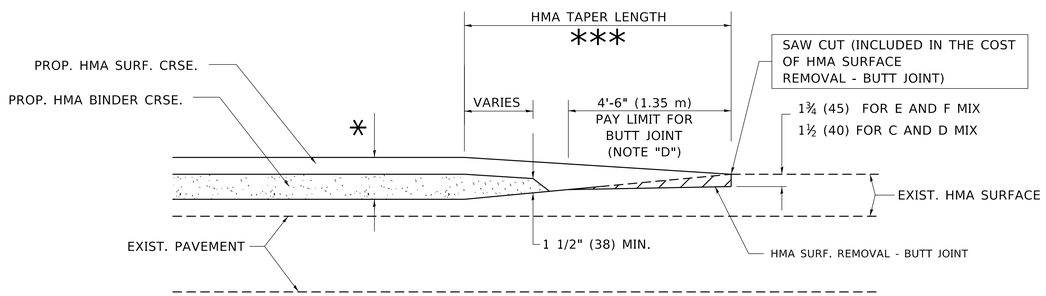


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

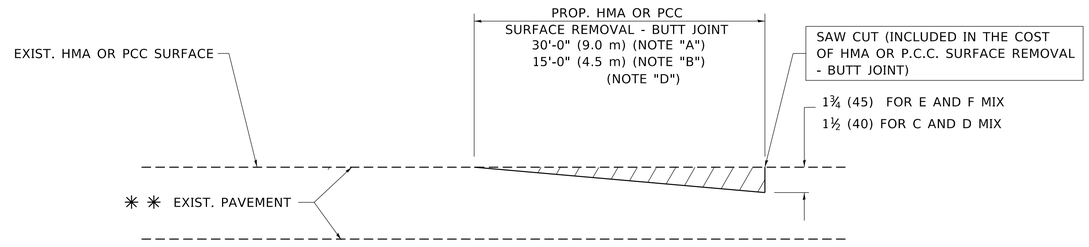
OPTION 2

TYPICAL TEMPORARY RAMP

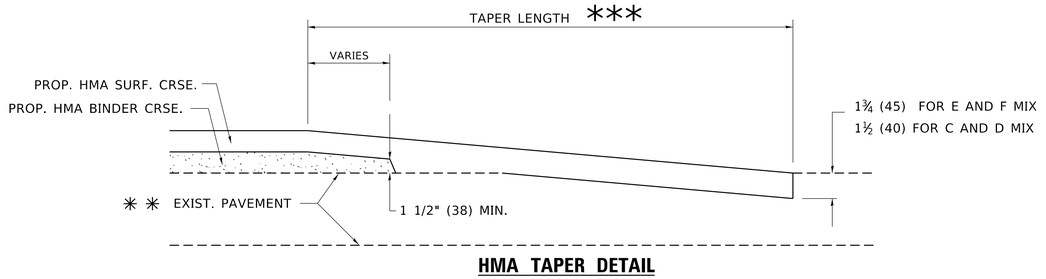


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A. MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B. MINOR SIDE ROADS.

C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E. TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F. INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT.

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

G. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = footemj	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
PLOT DATE = 3/27/2019	DATE - 06-13-90	REVISED - R.BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD400–05 BD32	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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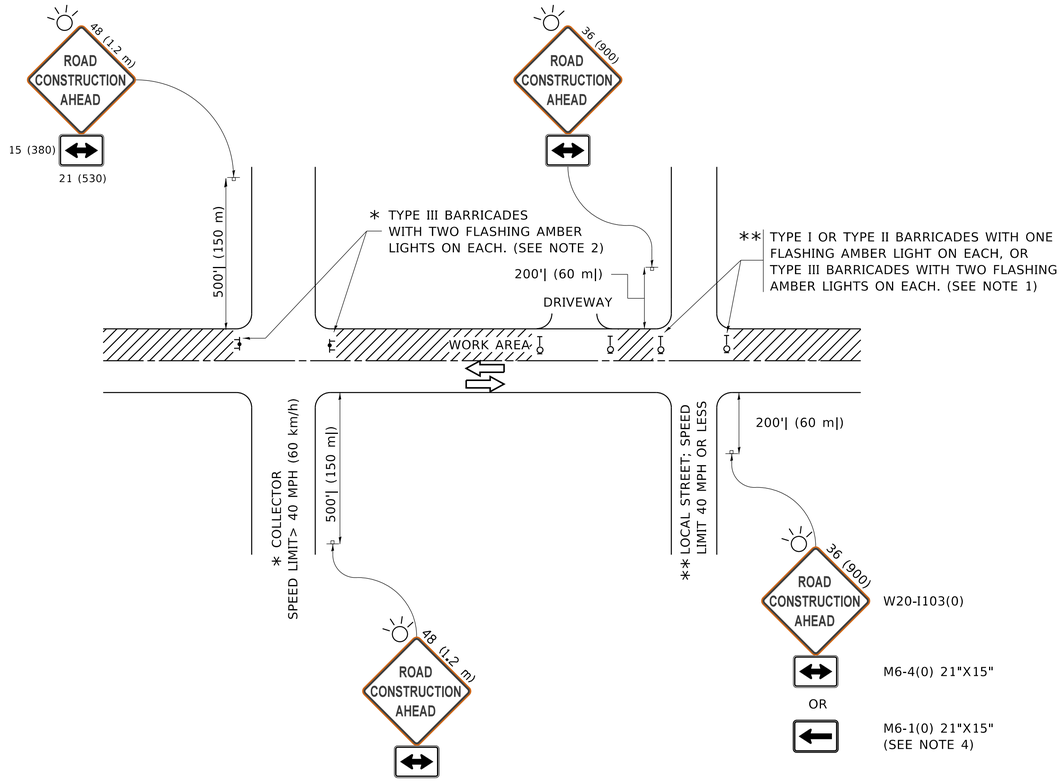

NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

TC–10 CONTRACT NO.

ILLINOIS | FED. AID PROJECT

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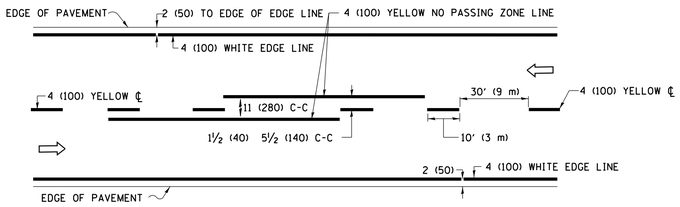
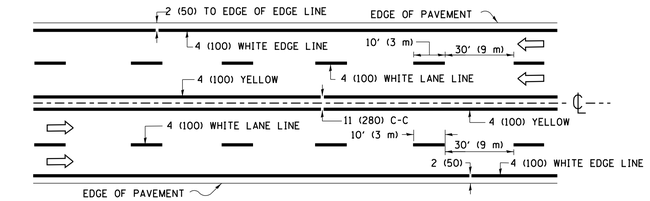
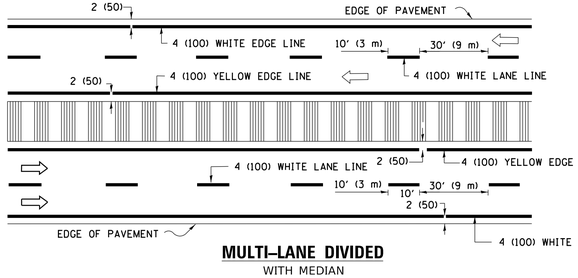


2–LANE ROADWAY

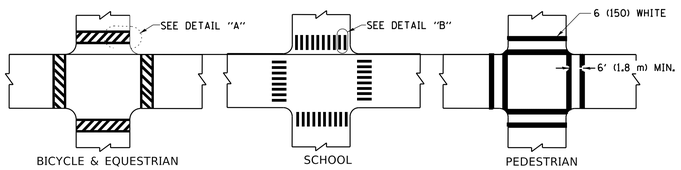


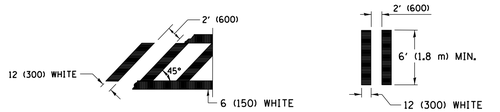
MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

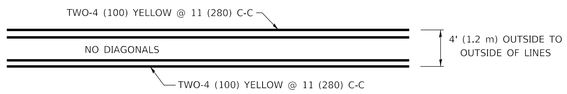




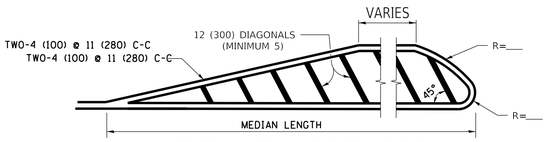
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

✳ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



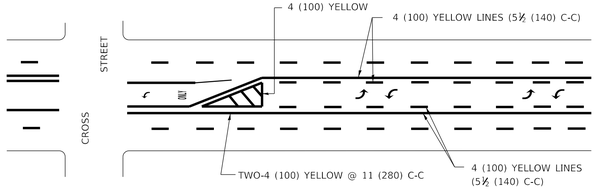
4' (1.2 m) WIDE MEDIANS ONLY



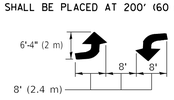
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

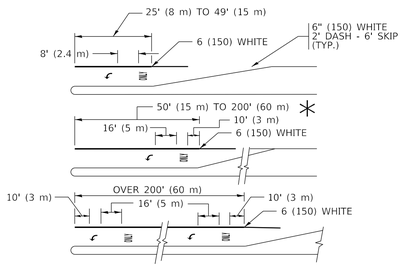


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

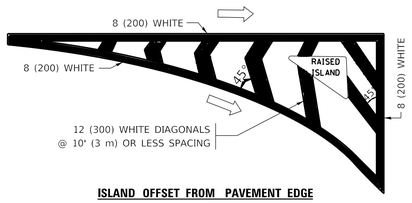


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m²)

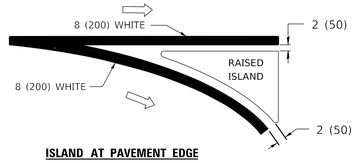
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

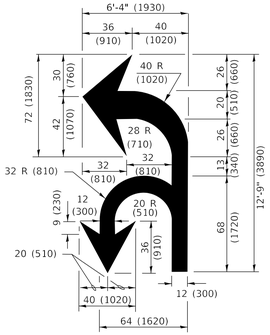


ISLAND OFFSET FROM PAVEMENT EDGE

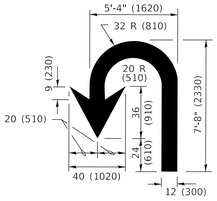


ISLAND AT PAVEMENT EDGE

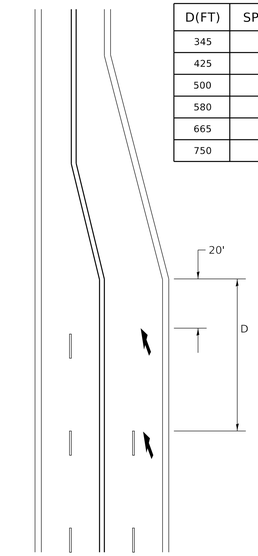
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



LANE REDUCTION TRANSITION

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

✳ LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m² EACH "X"=54.0 SQ. FT. (5.0 m²
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

MODEL: Default
FILE NAME: pw:\\IL084EBIDNTEG.Illinois.gov:PWIDOTIDocuments\IDOT Offices\District 1\Projects\Dist51d223.34\CADData\CADSheets\tc13.dgn

USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09	
	DRAWN -	REVISED - C. JUCIUS 07-01-13	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15	
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC–13	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

tc13.dgn 3/4/2019 10:34:37 AM User=footemj

TESTING SERVICE CORPORATION
Corporate Office:
360 S. Main Place, Carol Stream, IL 60188-2404
630.462.2600 ● Fax 630.653.2988

Local Office:
457 E. Gundersen Drive, Carol Stream, IL 60188-2492
630.653.3920 ● Fax 630.653.2726

Local Office
April 1, 2024

Mr. Lee Fell
Christopher B. Burke Engineering, Ltd.
9575 West Higgins Road Suite 600
Rosemont, IL 60018

Re: L-96,622 - Revised
P.I.E. Detention and Stormwater Improvements
105th Street and Kilpatrick Avenue
Oak Lawn, Illinois

Dear Mr. Fell:

This report presents the results of a soils exploration performed for the proposed storm sewer upsizing, roadway improvements, and detention basin in Oak Lawn, Illinois. These geotechnical engineering services have been provided in accordance with TSC Proposal No. 71,865 dated September 27, 2023. Environmental Analysis in connection with IEPA LPC-662/663 forms is also being performed in conjunction with our work under Job No. L-96,623. Additional borings were taken in the area of Polaris Park for the proposed tiered retaining walls under Job No. L-96,798, with the report dated March 1, 2024.

Current plans call for the upsizing of storm sewers along West 105th Street and Kilpatrick Avenue. The improvements along 105th Street will extend from Sta. 100+00 to Sta. 137+00 for approximately 3700 lf, i.e. extending east from Kilpatrick to S Kedvale Ave. The improvements along Kilpatrick Ave will extend from Sta. 100+00 to Sta. 134+00 for approximately 3400 lf, i.e. extending north from W 110th to W 105th Street. Based on plans provided by the client (dated 07/25/2023) the new sewer inverts will be between Elevations 584 and 606, or about 4.5 to 13.0 feet below existing grade. The storm sewer will generally consist of 36 to 60 inch diameter pipes. However, 5' x 8' box culvert segments will be utilized under Kilpatrick Ave south of 107th Street.

A dry-bottom detention basin with underdrains is proposed within the area occupied by Polaris Park. The bottom of the basin is tentatively set at elevation 591. Existing grades in the area of the detention basin appear to generally range from 595.5 to 598; and it is expected that the grades will typically be lowered by approximately 4.5 to 7 feet. A series of short (< 2' tall) retaining walls will be provided along the perimeter of the basin.

Field Investigation and Laboratory Testing

Twelve (12) soil borings (No. 1 - 12) were performed in connection with the storm sewer (and roadway improvements). Three (3) soil borings (No. 13 - 15) were also drilled for the detention basin. The seven (7) soil borings (Nos. 101 - 107) drilled under TSC Job No. L-96,798 are also included. Ground surface elevations at the borings were acquired by TSC using a Trimble R12 GNSS receiver, being rounded to the nearest 0.5 foot. JULIE (Joint Utility Locating Information for Excavators) was contacted so that the various underground utility lines could be cleared. Reference is made to the enclosed Boring Location Plan for the drilling layout.

Pavement cores were performed at the locations of Borings 1 - 12, taken to determine the composition and general condition of the pavement materials. The pavement cores were obtained using a 4" diameter core barrel with an impregnated diamond matrix cutting bit. Granular base course materials were then hand-augered and sampled to determine their thickness and composition.

The pavement core samples were examined by a materials technician in the laboratory. These detailed results are shown on the attached sheet titled “Pavement Composition and Thickness”. Bituminous layers are listed individually, including their average thicknesses and condition comments. Total asphalt thickness is also given, round to the nearest ¼ inch.

The borings were generally extended 15 feet below existing grade. However, hard drilling and auger refusal occurred at a depth of about 10 feet in B-6 and sampler refusal occurred at depths of 13.7 to 14.4 feet in Borings 7, 14, and 15. The borings were drilled and samples tested according to currently recommended American Society for Testing and Materials specifications. Soil sampling was performed at 2½-foot intervals in conjunction with the Standard Penetration Test, for which driving resistance to a 2" split-spoon sampler (N-value in blows per foot) provides an indication of the relative density of granular materials and consistency of cohesive soils. Water level readings were taken during and following completion of drilling operations, with the boreholes then being immediately backfilled for safety reasons and those in pavement areas also patched at the surface.

Soil samples were examined in the laboratory to verify field descriptions and to classify them in accordance with the Unified Soil Classification System. Laboratory testing included water content determinations for all cohesive and intermediate (silt or loamy) soil types. An estimate of unconfined compressive strength was obtained for all cohesive soils using a calibrated pocket penetrometer (Qp), with actual measurements of unconfined compressive strength (Qu) performed on representative samples of native clay soils. Dry unit weight tests were also run on specimens of cohesive fill. Seven (7) samples of peat and/or organic clay soils from Borings 10, 11, 13, 101, 104 and 105 were tested for organic content using the Loss-On-Ignition (LOI) method.

Reference is made to the boring logs included with this report indicating subsurface stratigraphy and soil descriptions, results of field and laboratory tests, as well as water level observations. Definitions of descriptive terminology are also included. While strata changes are shown as a definite line on the boring logs, the actual transition between soil layers is likely to be more gradual. Fluctuations in the groundwater level may also occur due to variations in precipitation (short-term and seasonal) as well as rises or drops in lake, river or other nearby surface water features, i.e. water levels at a future date may be higher or lower than those recorded at the time of drilling.

Discussion of Test Data

Pavement Cores

Pavement cores were first taken at Borings 1 - 12. The results of the pavement cores are summarized in the following table, i.e., bituminous concrete (Hot Mix Asphalt) and base course total thicknesses are given.

SUMMARY OF PAVEMENT CORE RESULTS

Boring No.	General Location	Bituminous Concrete Thickness* (in)	Base Course Thickness** (in)
1	S Kedvale Avenue	4¼	7
2	W 105th Street	4	5
3	W 105th Street	3¾	6
4	W 105th Street	3¼	6
5	W 105th Street	4¾	5
6	W 105th Street	5	9
7	W 105th Street	4	8
8	Kilpatrick Avenue	4½	9
9	Kilpatrick Avenue	4½	7
10	Kilpatrick Avenue	4¾	8
11	Kilpatrick Avenue	5	8
12	Kilpatrick Avenue	4½	9

* Total asphalt thickness rounded to the nearest ¼ inch.
** Base course thickness rounded to the nearest 1 inch.

The cores taken revealed approximately 3¼ to 5 inches of bituminous concrete overlying 5 to 9 inches of granular base course materials. Examination of the core sample revealed that the asphalt section was comprised of a bituminous surface course and a bituminous binder course, except at C-7 where an additional surface course lift was found in lieu of the binder course. It was noted that the lifts at Borings 7 and 11 were found to be not bonded to one another. Granular materials, consisting of crushed stone, were found below the asphalt pavement at the core locations. The crushed stone base course materials had particle sizes up to 1½ inches with fines (apparent Illinois Dept. Of Transportation gradation CA-6).

Soil Borings

Borings 1 - 12 were taken for the proposed sewer improvements along West 105th Street and Kilpatrick Avenue in Oak Lawn. Borings 13 - 15 as well as Borings 101 - 107 (drilled under Job No. L-96,798) were taken in and/or around the proposed detention basin.

Surficial topsoil (native and/or respread fill) was 5 to 17 inches thick at Borings 13 - 15 and 101 - 107 (10 total). Silty clay (and occasional very silty clay) fill materials were found underlying the pavement section and/or topsoil layer at Borings 2, 3, 5 - 12 and 102 (11 total). The fill materials extended 3 to 8 feet below existing grade. The cohesive fill materials exhibited pocket penetrometer readings

(estimates of unconfined compressive strengths) ranging from 0.5 to 4.5+ tons per square foot (tsf) at water contents ranging from 12 to 24 percent. They also had dry unit weights ranging from 96 to 124 pounds per cubic foot (pcf).

Intermediate-grained fill materials consisting of silt, silty sand, and/or clayey silt were found underlying the pavement section and/or cohesive fill materials in Borings 9 and 10, extending 2 to 8 feet below top of pavement grade. These fill materials exhibited SPT N-values ranging from 6 to 16 blows per foot (bpf) at water contents ranging from 13 to 23 percent. Fill materials described as black cinders exhibiting an N-value of 6 bpf were sampled between 5½ and 8 feet in B-11.

Medium stiff to hard native silty clay (and occasional very silty clay) soils were typically found below the above materials in Borings 1 - 5, 7, 12, 13, 15, 101 and 104 - 107 (14 total). They extended approximately 3 to 15 feet below existing grade in the borings. These cohesive soils exhibited pocket penetrometer readings ranging from 0.75 to 4.5+ tsf at water contents varying from 10 to 26 percent. However, soft to stiff clay sampled between 8 and 10½ feet in Boring 13 and between 5½ to 10½ feet in Boring 102 exhibited high water contents of 30 to 38 percent.

Peat and/or organic clay soils (native and/or fill) were found below depths of 8 to 10½ feet in Borings 10, 11, 13, 101 - 105 and 107 (9 total) and extended 10½ to 13 feet below existing grade. These soft/compressible soil types had unconfined compressive strengths (as estimated by a pocket penetrometer) of 0.5 tons per square foot (tsf) or less. Water contents of these organic soils ranged from 110 to 250 percent. Loss-on-Ignition (LOI) organic content tests were performed upon a number of these samples of organic soil. The LOI organic contents were found to range from 10.5% to 50.8%.

Loose to very dense intermediate-grained to granular materials were otherwise encountered within the borings. These intermediate to granular materials typically consisted of silt, clayey silt, silty sand, sand and gravel. They exhibited SPT N-values typically ranging from 4 to 60 bpf, occasionally higher in possible bedrock or boulder zones.

Hard drilling possibly indicative of the presence of bedrock or boulder zone material was first encountered at depths of 8 to 11 feet in Borings 6, 7, 8, and 15 and a depth of 13 feet in Boring 14. SPT N-values in these materials were generally greater than 50 blow per foot. Boring 6 terminated at a depth of 10 feet due to auger refusal in probable bedrock material. Borings 7, 14, and 15 terminated at depths in the range of 13.7 to 14.4 feet due to sampler refusal in possible bedrock or boulder zone material.

Free water was initially encountered at depths of 6 to 13 feet below existing grade in Borings 1, 8, 10, 11, 101 - 105 and 107 (10 total). Upon completion of drilling operations, the water levels in the boreholes had generally remained within 5 feet of initial readings with the exception of B-8 which was noted as dry after drilling operations.

Analysis and Recommendations

Storm Sewer Improvements

Summarized by boring location in the following table are the existing approximate ground surface elevations and proposed invert elevations taken from the plan and profile sheets provided by the Client, the corresponding invert depth in feet (rounded to the nearest half foot) and a description of the

material found at or near the proposed invert depth. Comments are also provided regarding pipe (or culvert) support characteristics and/or special construction considerations indicated by the findings.

Boring No.	General Location	Existing Elevation (rounded to nearest half-foot)	Proposed Invert		Material at or near Invert Elevation	Comments
			Approx. Elevation (rounded to nearest half-foot)	Approx. Depth in Feet below existing grade		
1	Kendall Ave.	620.5	N.P.	13.5*	Dense Silt, wet	L
2	105th St.	619.5	606	13.5	Hard clay over Medium dense Silt	S
3	105th St.	617.0	603.5	13.5	Hard to very stiff silty Clay	CL
4	105th St.	614.0	600.5	13.5	Hard silty Clay	CL
5	105th St.	610.0	598.5	11.5	Hard silty Clay	CL
6	105th St.	603.0	596	7	Fill - Silty Clay over V. Dense Silt	CL
7	105th St.	598.0	593	5	Stiff silty Clay over Dense silt	CL/S
8	Kilpatrick Ave.	596.5	590	6.5	Medium Dense silt, wet, over V. Dense silty Sand and Gravel, wet	L
9	Kilpatrick Ave	596.5	588	8.5	Dense clayey Silt, numerous Cobbles, very moist	L
10	Kilpatrick Ave	596.5	586	10.5	Very soft Organic Clay and Peat	U
11	Kilpatrick Ave	596.0	585	11	Organic Clay and Peat over Medium Dense to dense Silt, wet	U/L
12	Kilpatrick Ave	596.5	584	12.5	Medium dense Silt, very moist, over silty Sand and Gravel	L
101	NWC Inlet	596.5	590.0	6.5	Loose clayey Silt	L
105	SWC Outlet	597.0	589.0	8	Medium stiff to stiff silty Clay	L

Legend

N.P. Information not provided.

* Assumed to be similar to Invert depth at B-2.

CL Stiff to hard Clays present - no special treatment anticipated to be necessary for pipe support.

L Low strength clay and/or marginal stability very moist to wet silt materials present - likely need to undercut and replace with 1 to 2 feet of coarse granular materials in order to provide adequate sewer support.

S Silt present at or near anticipated Invert depth - may need to place an additional 0.5 to 2.0 feet of crushed stone bedding material to provide adequate stability and pipe (or culvert) support if unstable conditions develop.

U Very soft organic clay and peat present at or near anticipated Invert depth - an undercut on the order of 2 feet should be anticipated in order to completely remove the compressible soils from beneath the storm sewer (culvert) and create a stable base for sewer (culvert) construction

Very soft organic clay and peat soils were encountered at or just above the approximate invert depths in Borings 10 and 11. They extended 10½ to 13 feet below existing grade. The organic clay soils had high moisture contents ranging from 110 to 208 percent. These compressible soil types are not recommended for direct support the sewer pipe, with long-term settlement being a concern. An undercut on the order of 2 feet should be anticipated in the area of these borings in order to remove the compressible soils from beneath the pipe and create a stable base for sewer pipe construction. Replacement materials should consist of crushed stone, crushed gravel or crushed concrete meeting IDOT gradation CA-1, commonly referred to as 3" rock, or CA-7. It should be expected that the organic clay and peat soils will slough significantly during construction, causing a larger than normal excavation.

Moist, loose dense to dense silt deposits were found at or near proposed invert elevations in Borings 2, 7, and 101. While considered suitable for sewer support in a confined state, they may become unstable when exposed by excavation, particularly in the presence of free water. If unstable conditions are observed or are expected to develop, it may be necessary to place an additional 0.5 to 2.0 feet of granular bedding in order to provide a stable base for pipe or culvert storm sewer support.

Low-strength clays or very moist to wet silts were found at or near approximate invert grade at Borings 1, 8, 9, 11, 12, and 105. It is anticipated that an additional 1 to 2 feet of granular bedding material will need to be placed at these locations in order to provide a stable platform for pipe (or culvert) support.

It should be noted that intermediate or granular soil types (silts, sands or gravels) encountered under hydrostatic pressure at the time of construction can lead to a running condition, where the materials in the sidewalls and bottom will rapidly slough or flow into the excavation. If allowed to occur running soil conditions may lead to loss of ground and settlement in surrounding areas. If the trench bottom becomes unstable, 12 to 18 inches of Illinois Dept of Transportation (IDOT) Gradation CA-7 material may be placed to provide a satisfactory base for construction.

In connection with the open excavations, the Contractor must either brace the sides of the excavations or slope them back in accordance with current OSHA requirements to prevent excavation instability. In this regard, all excavations should comply with the requirements of OSHA 20CFR, Part 1926, Subpart P, "Excavations" and it appendices as well as any other applicable codes. This document states that excavation safety is the responsibility of the Contractor. Reference to this OSHA requirement should be included in the job specifications.

Cobbles (and possibly boulders) were encountered in several of the soil borings. Furthermore, very dense deposits described as possible weathered rock, cobble or boulder zone materials were found in the lower part of Borings 6 - 8. These deposits could cause difficulties with construction.

Lateral earth pressures for permanent underground structures will be dependent on the type of backfill used and groundwater levels. Equivalent fluid pressures are given for cohesive and granular backfills, assuming at-rest (Ko) earth pressures. The values shown represent the increase in lateral pressure over a 1.0 foot distance measured in pounds per square foot (psf/ft).

EQUIVALENT FLUID PRESSURE (PSF/FT)

BACKFILL TYPE	ABOVE WATER TABLE	BELOW WATER TABLE
Granular	50	90
Cohesive	65	110

Mill and Overlay Rehabilitation

The pavements cores revealed 3¼ to 5 inches of asphalt pavement (Hot Mix Asphalt). The thicknesses at the cores would typically be considered marginally suitable for milling and overlaying. The bituminous lifts in Borings 9 and 11 were found to not bonded to one another. If the pavements are to be milled, at least localized areas of the exposed section will likely fall apart with the use of typical heavy milling equipment and associated truck traffic. During wet times of the year, milling and overlaying may be more problematic due to a wet subgrade, with the trucks and heavy milling equipment aggravating this condition.

It should be understood that milling and overlaying is a temporary fix with a limited lifespan and will not have the same results as total pavement reconstruction. A 4.75 mm Sand mix layer may be applied first to help reduce/delay the reflective cracking. It is recommended that a tack coat also be used to create a strong adhesive bond without slippage.

In areas where milling and resurfacing is performed, it will be necessary to remove any distressed pavement sections and/or any unbonded pavement sections. The evaluation of the failed areas should be performed after the milling work has been completed. At this time additional failures may become evident. In the event deficient pavement conditions are noted, it will be necessary to remove the distressed pavement sections. Subgrade support for improvements will be related to the thickness of the remaining asphalt section, existing granular base course materials, as well as the condition of the subgrade soils.

If the bituminous concrete is entirely removed, the crushed stone base course materials were only 5 to 9 inches thick in the borings. In this regard, they may be considered to thin to save.

Pavement Rehabilitation

Fill and native silty clay soils in a stiff to hard condition were typically encountered underlying the pavement section at the borings. Medium dense sand was also encountered underneath the pavement section at Borings 1 and 9. These materials are generally considered suitable for pavement construction provided they pass a proof-roll. The proof-roll should be performed using a loaded dump truck or other piece of heavy rubber-tired construction equipment, in order to check for the presence of unsuitable soil types. In this regard, the exposed clay subgrade at some of the core locations may have to be reduced in moisture content and/or recompacted in order to provide a stable subgrade prior to paving, particularly if wet weather conditions predominate.

If paving construction is performed when drying of surficial soils cannot be accomplished, removal of unstable subgrade and replacement with 1 to 2 feet of coarse granular materials may be required. Granular materials should consist of crushed stone or crushed gravel between ¼ to 3 inches in size and containing no fines; IDOT gradations CA-1 and CA-7 meet these requirements.

A nominal Illinois Bearing Ratio (IBR) value of 3.0 is typically used for the design of asphalt pavements in the area. The use of this value assumes that any soft or unstable areas will be remediated, i.e. subgrade stabilization until passing a proof-roll.

It is recommended that any new base course materials conform to IDOT gradation specification CA-6 (well-graded crushed stone or sand and gravel mixture). These materials should be compacted to 95 percent Modified Proctor density or 100 percent of the Standard Proctor (ASTM D 698) maximum density value. Bituminous materials should conform to an approved current IDOT Superpave mix design (N50 typical for light-duty pavements and N50 or N70 for heavy-duty), as well as Standard Specifications for Road and Bridge Construction, Sections 406 and 1032. They should be compacted to between 93 and 97 percent of their theoretical maximum density, as determined by the supplier.

Detention Pond

Borings 13 - 15 as well as Borings 101 - 107 (drilled under TSC Job No. L-96,798) were taken in and/or around the area for the proposed detention basin, to be located within the area occupied by Polaris Park. It is understood that the bottom of the basin is tentatively set at or near Elevation 591.0. Therefore, existing grade will be lowered approximately 4 to 7 feet to construct the bottom of the basin.

Surficial topsoil was found to be 5 to 17 inches thick at the borings. Underlying soils generally consisted of loose to medium dense silt/clayey silt and relatively low-strength silty to very silty clay soils in a medium stiff to stiff condition in the upper 10 feet. Very dense silt described as possible bedrock was encountered at a depth of 8 feet in Boring 15.

Silt, clayey silt and/or sandy silt materials were sampled at or near the approximate bottom of the proposed basin. These intermediate materials are considered moisture sensitive as well as prone to instability under the traffic of heavy construction equipment. It should be noted that the subgrade stability will also be affected by weather conditions at the time of construction. Since the site is expected to be "tender", consideration should be given to grading this site in the drier time of the year

and using relatively light-weight grading equipment. Special considerations should also be given to how the detention basin will be constructed.

Organic clay and peat soils were encountered in Borings 13, 101 - 105 and 107, i.e. in most of the borings in the area of detention basin within Polaris Park. These organic soil types were first encountered approximately 8 to 10½ feet below existing grade or between Elevations 586.0 and 589.5. While peat/organic clay materials were not encountered at the approximate bottom of the basin, currently set at Elevation 591.0, they may be exposed if undercuts are required during construction to create a stable subgrade. It should also be understood that the organic materials are considered to be compressible, so special considerations should also be given to how the detention basin will be excavated. While the organic soil types are not considered suitable for foundation support, it does not appear that the complete removal and replacement is required for the pond area. Given that approximately 5 to 7 feet of existing soils are being removed and there is generally 2 feet of cover is also beneficial. However, it should be understood that long-term settlement may occur due to decomposition of the organic materials.

Closure

The analysis and recommendations submitted in this report are based upon the data obtained from the twelve (12) pavement cores and fifteen (15) borings performed at the locations indicated on the Boring Location Plan as well as the seven (7) borings drilled under TSC Job No. L-96,798. This report does not reflect any variations which may occur between these borings or elsewhere on the site, the nature and extent of which may not become evident until during the course of construction. If variations are then identified, recommendations contained in this report should be re-evaluated after performing on-site observations.

Please call if there are any questions in regard to this matter or if we may be of further service.

Respectfully submitted,

TESTING SERVICE CORPORATION

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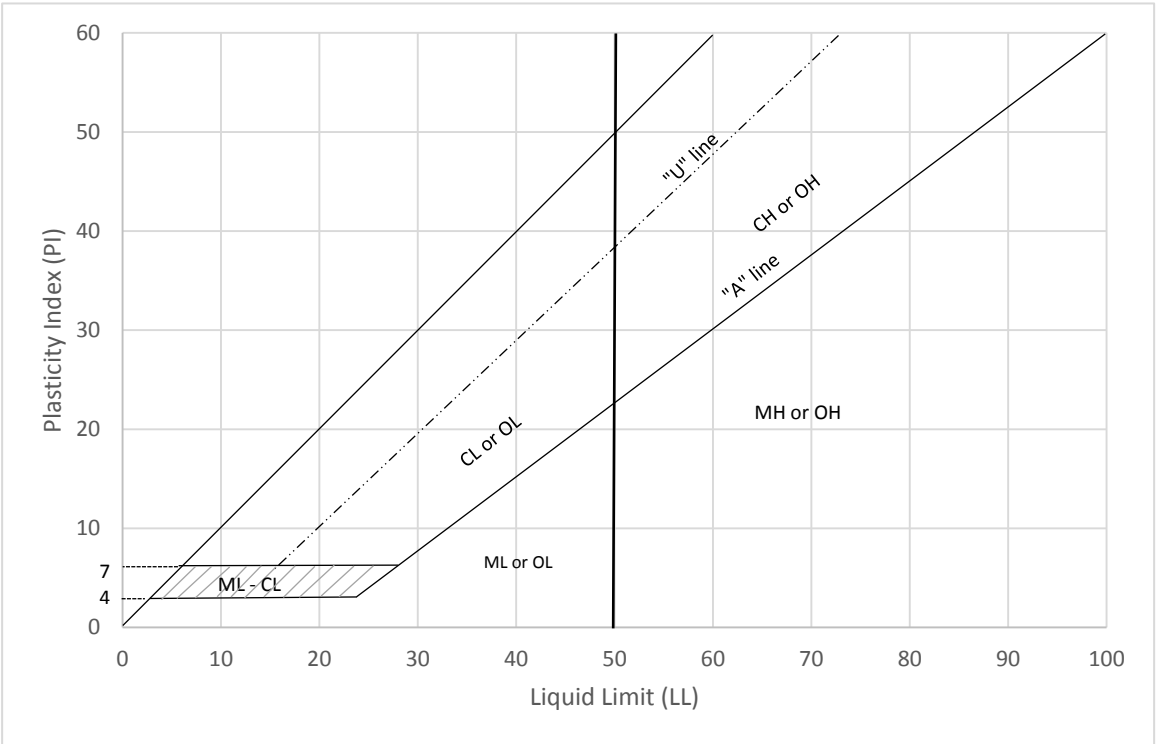
RRK:SRK
Enc.

Testing Service Corporation
Unified Classification Chart

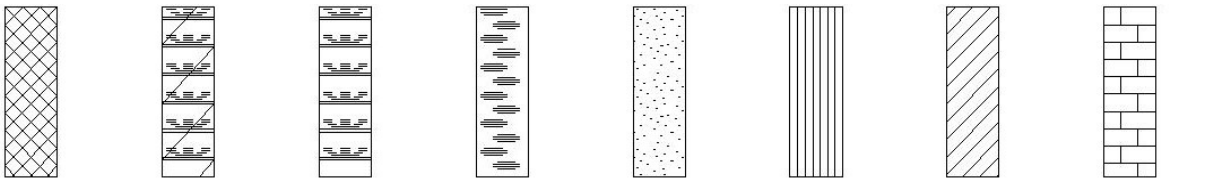
CRITERIA FOR ASSIGNING GROUP SYMBOLS AND GROUP NAMES USING LABORATORY TEST [a]				SOIL CLASSIFICATION	
				Group Symbol	GROUP NAME [b]
COARSE - GRAINED SOILS more than 50% retained on No. 200 sieve	GRAVELS More than 50% of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS less than 5% fines [c]	$C_u \geq 4$ and $1 \leq C_C \leq 3$ [e]	GW	Well-graded gravel [f]
			$C_u < 4$ and/or $1 > C_C > 3$ [e]	GP	Poorly-graded gravel [f]
		GRAVELS WITH FINES more than 12% fines [c]	Fines classify as ML or MH	GM	Silty gravel [f, g, h]
			Fines classify as CL or CH	GC	Clayey gravel [f, g, h]
	SANDS 50% or more of coarse fraction passes No. 4 sieve	CLEAN SANDS less than 5% fines [d]	$C_u \geq 6$ and $1 \leq C_C \leq 3$ [e]	SW	Well-graded sand [l]
			$C_u < 6$ and/or $1 > C_C > 3$ [e]	SP	Poorly-graded sand [l]
		SANDS WITH FINES more than 12% fines [d]	Fines classify as ML or MH	SM	Silty sand [g, h, f]
			Fines classify as CL or CH	SC	Clayey sand [g, h, f]
FINE - GRAINED SOILS 50% or more passed the No. 200 sieve	SILTS & CLAYS Liquid limit less than 50%	Inorganic	PI > 7 or plots on or above "A" line j	CL	Lean clay [k, l, m]
			PI < 4 or plots below "A" line j	ML	Silt [k, l, m]
		Organic	$\frac{\text{Liquid limit – oven dried}}{\text{Liquid limit – not dried}} < 0.75$	OL	Organic clay [k, l, m, n] Organic silt [k, l, m, o]
	SILTS & CLAYS Liquid limit 50% or more	Inorganic	PI plots on or above "A" line	CH	Fat clay [k, l, m]
			PI plots below "A" line	MH	Elastic silt [k, l, m]
		Organic	$\frac{\text{Liquid limit – oven dried}}{\text{Liquid limit – not dried}} < 0.75$	OH	Organic clay [k, l, m, p] Organic silt [k, l, m, q]
Highly organic soils		Primarily organic matter, dark in color, and organic odor		PT	Peat

a. Based on the material passing the 3-inch (75-mm) sieve.
b. If field sample contained cobbles and/or boulders, add "with cobbles and/or boulders" to group name
c. Gravels with 5 to 12% fines required dual symbols
GW-GM well graded gravel with silt
GW-GC well graded gravel with clay
GP-GM poorly graded gravel with silt
GP-GC poorly graded gravel with clay
d. Sands with 5 to 12% fines require dual symbols
SW-SM well graded sand with silt
SW-SC well graded sand with clay
SP-SM poorly graded sand with silt
SP-SC poorly graded sand with clay
e. $C_u = D_{60}/D_{10}$ $C_C = \frac{(D_{30})^2}{D_{10} \quad D_{60}}$

f. If soils contains ≥ 15% sand, add "with sand" to group name.
g. If fines classify as CL-ML, use dual symbol GC-GM, SC-SM
h. If fines are organic, add "with organic fines" to group name
i. If soils contains ≥ 15% gravel, add "with gravel" to group name
j. If Atterberg Limits plot in hatched area, soil is a CL – ML, silty clay
k. If soils contains 15 to 29% plus No. 200, add "with sand" or "with gravel" whichever is predominant
l. If soil contains ≥ 30% plus No. 200, predominantly sand, add "sandy" to group name.
m. If soils contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name
n. PI ≥ 4 and plots on or above "A" line
o. PI ≥ 4 and plots below "A" line
p. PI plots on or above "A" line
q. PI plots below "A" line



LEGEND FOR BORING LOGS



FILL TOPSOIL PEAT GRAVEL SAND SILT CLAY LIMESTONE/ DOLOMITE

SAMPLE TYPE

SS	=	Split-Spoon
ST	=	Thin-Walled Tube
A	=	Auger
MC	=	Macro-Core (Geoprobe)

WATER LEVEL OBSERVATIONS

▼	While Drilling
▽	End of Boring
▼	24 Hours

FIELD AND LABORATORY TEST DATA

N	=	Standard Penetration Resistance in Blows per Foot (bpf)
WC	=	In-Situ Water Content (%)
Qu	=	Unconfined Compressive Strength in Tons per Square Foot (tsf)
	*	Pocket Penetrometer Reading: Maximum Value = 4.5 tsf
γ_{dry}	=	Dry Unit Weight in Pounds per Cubic Foot (pcf)

SOIL DESCRIPTIONS:

MATERIAL	PARTICLE SIZE RANGE
BOULDER	Over 12 inches
COBBLE	12 inches to 3 inches
Large GRAVEL	3 inches to ¾ inch
Small GRAVEL	¾ inch to No. 4 Sieve
Coarse SAND	No. 4 Sieve to No. 10 Sieve
Medium SAND	No. 10 Sieve to No. 40 Sieve
Fine SAND	No. 40 Sieve to No. 200 Sieve
SILT and CLAY	Passing No. 200 Sieve

COHESIVE SOILS

CONSISTENCY	Qu (tsf)
Very Soft	Less than 0.25
Soft	0.25 to 0.5
Medium Stiff	0.5 to 1.0
Stiff	1.0 to 2.0
Very Stiff	2.0 to 4.0
Hard	4.0 and over

COHESIONLESS SOILS

RELATIVE DENSITY	N (bpf)
Very Loose	0 – 3
Loose	4 – 9
Medium Dense	10 – 29
Dense	30 – 49
Very Dense	50 and over

MODIFYING TERM	PERCENT BY WEIGHT
Trace	1 – 10
Little	10 – 20
Some	20 – 35

PAVEMENT COMPOSITION AND THICKNESS

Boring No.	Description	Thickness in inches
B-1	Bituminous Concrete Surface Course	1.8
	Bituminous Concrete Binder Course	2.5
	Total Bituminous Thickness	**4¼**
	Crushed Stone Base Course	7
B-2	Bituminous Concrete Surface Course	1.7
	Bituminous Concrete Binder Course	2.3
	Total Bituminous Thickness	**4**
	Crushed Stone Base Course	4
B-3	Bituminous Concrete Surface Course	1.7
	Bituminous Concrete Binder Course	2.0
	Total Bituminous Thickness	**3¾**
	Crushed Stone Base Course	6
B-4	Bituminous Concrete Surface Course	1.5
	Bituminous Concrete Binder Course	1.7
	Total Bituminous Thickness	**3¼**
	Crushed Stone Base Course	6
B-5	Bituminous Concrete Surface Course	2.4
	Bituminous Concrete Binder Course	2.3
	Total Bituminous Thickness	**4¾**
	Crushed Stone Base Course	5
B-6	Bituminous Concrete Surface Course	2.5
	Bituminous Concrete Binder Course	2.6
	Total Bituminous Thickness	**5**
	Crushed Stone Base Course	9

* Pavement Layer Not Bonded to Overlying Lift
Total bituminous thicknesses rounded to the nearest ¼ inch.

PAVEMENT COMPOSITION AND THICKNESS

Boring No.	Description	Thickness in inches
B-7	Bituminous Concrete Surface Course	1.6
	Bituminous Concrete Surface Course	2.5
	Total Bituminous Thickness	**4**
	Crushed Stone Base Course	8
B-8	Bituminous Concrete Surface Course	1.7
	Bituminous Concrete Binder Course	2.9
	Total Bituminous Thickness	**4½**
	Crushed Stone Base Course	9
B-9	Bituminous Concrete Surface Course	2.0
	Bituminous Concrete Binder Course*	2.4
	Total Bituminous Thickness	**4½**
	Crushed Stone Base Course	7
B-10	Bituminous Concrete Surface Course	2.1
	Bituminous Concrete Binder Course	2.7
	Total Bituminous Thickness	**4¾**
	Crushed Stone Base Course	8
B-11	Bituminous Concrete Surface Course	2.2
	Bituminous Concrete Binder Course*	2.9
	Total Bituminous Thickness	**5**
	Crushed Stone Base Course	8
B-12	Bituminous Concrete Surface Course	2.0
	Bituminous Concrete Binder Course	2.6
	Total Bituminous Thickness	**4½**
	Crushed Stone Base Course	9

* Pavement Layer Not Bonded to Overlying Lift
Total bituminous thicknesses rounded to the nearest ¼ inch.

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **1** DATE STARTED **12-8-23** DATE COMPLETED **12-8-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER LEVEL OBSERVATIONS

WHILE DRILLING **8.0 '**

AT END OF BORING **13.0 '**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.4		4¼" Bituminous Concrete
							0.9		FILL - Crushed Stone
1	SS		10	7.1					Medium dense brown SAND, moist (SP)
							3.0		
2	SS		11	8.8					Medium dense brown trace dark brown SAND, trace clay, trace organic, moist (SP)
							5.5		
3	SS		12	17.2	3.75*				Very stiff gray silty CLAY, little sand and gravel, occasional sand seams, moist (CL)
							8.0		
4	SS		38	18.1					
5	SS		49	15.7					Dense gray SILT, trace sand, trace clay, wet (ML)
6	SS		37	16.7					
									End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **358**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC 96622.GPJ TSC_ALL.GDT 1/4/24

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **2** DATE STARTED **12-8-23** DATE COMPLETED **12-8-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.3		4" Bituminous Concrete
							0.7		FILL - Crushed Stone
1	SS		5	18.6	2.5*	112			FILL - Brown and gray silty CLAY, little sand and gravel, moist to very moist (CL)
2	SS		5	24.1	1.0*	96			
							5.5		
3	SS		11	17.9	3.90 4.0*				Very stiff brownish-gray silty CLAY, little sand and gravel, moist (CL)
							8.0		
4	SS		17	12.7	5.70 4.5+*				Hard gray silty CLAY, little to some sand and gravel, moist (CL)
5	SS		20	13.4	4.5+*				
							13.0		
6	SS		19	15.1					Medium dense gray SILT, trace sand, moist (ML)
									End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **358**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC 96622.GPJ TSC_ALL.GDT 1/4/24

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **3** DATE STARTED **12-8-23** DATE COMPLETED **12-8-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.3		3¾" Bituminous Concrete
							0.8		FILL - Crushed Stone
1	SS		6	11.4	2.5*				FILL - Brown trace dark brown silty CLAY, little to some sand and gravel, occasional sand seams, trace organic, moist (CL)
							3.0		
2	SS		11	16.8	4.0*				Hard brown and gray silty CLAY, little sand and gravel, moist (CL)
							5.5		
3	SS		21	16.9					Medium dense gray SILT, trace sand, moist (ML)
4	SS		19	17.4					
							10.5		
5	SS		22	14.9	4.5+*				Hard to very stiff gray silty CLAY, little sand and gravel, moist (CL)
6	SS		11	15.7	2.04 3.5*				
									End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **358**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC 96622.GPJ TSC_ALL.GDT 1/4/24

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **4** DATE STARTED **12-7-23** DATE COMPLETED **12-7-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

24 HOURS

LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.3		3¼" Bituminous Concrete
							0.8		FILL - Crushed Stone
	1	SS	11	16.7	3.5*				Very stiff to hard brown trace gray silty CLAY, little sand and gravel, moist (CL)
	2	SS	16	18.7	4.5+*				
							5.5		
	3	SS	16	14.7	4.5*				Hard grayish-brown silty CLAY, little to some sand and gravel, occasional Cobbles, moist (CL)
	4	SS	17						
							10.5		
	5	SS	21	13.0	4.5+*				Hard gray silty CLAY, little to some sand and gravel, moist (CL)
	6	SS	12	13.4	4.5*				
									End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **358**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC 96622.GPJ TSC_ALL.GDT 1/5/24

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **5** DATE STARTED **12-7-23** DATE COMPLETED **12-7-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.4		4¾" Bituminous Concrete
							0.8		FILL - Crushed Stone
1	SS		12	17.7	4.5+*	114			FILL - Brown and gray silty CLAY, trace sand and gravel, moist (CL)
							3.0		
2	SS		23	16.0	4.5+*				Hard brown silty CLAY, little sand and gravel, moist (CL)
3	SS		31	16.1	4.5+*				
							8.0		
4	SS		24	15.2	7.56 4.5+*				Hard brownish-gray silty CLAY, little sand and gravel, moist (CL)
							10.5		
5	SS		23	12.8	4.5+*				Hard gray silty CLAY, little to some sand and gravel, moist (CL)
6	SS		28	11.7	4.5+*				
									End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **358**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC 96622.GPJ TSC_ALL.GDT 1/4/24

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **6** DATE STARTED **12-7-23** DATE COMPLETED **12-7-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.4		5" Bituminous Concrete
							1.2		FILL - Crushed Stone
1	SS		10	17.7	4.5+*	113			FILL - Brown and gray silty CLAY, trace sand and gravel, moist (CL)
2	SS		22	13.9	4.5+*	123			
3	SS		26	12.6	4.5+*	124			
							8.0		
4	SS		50/0"	3.1					Very dense gray SILT, occasional Cobbles or rock fragments, moist (ML)
							9.5		Weathered/Fractured Bedrock or Boulder Zone [Hard Drilling]

End of Boring at 10.0'
Auger Refusal on Apparent Bedrock at 10.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0
5
10
15
20
25

DRILL RIG NO. **358**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC 96622.GPJ TSC_ALL.GDT 1/4/24

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **7** DATE STARTED **12-7-23** DATE COMPLETED **12-7-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.3		4" Bituminous Concrete
							1.0		FILL - Crushed Stone
1	SS		9	19.6	1.5*	105			FILL - Dark brown silty CLAY, little sand, trace organic, moist (CL)
							3.0		
2	SS		5	17.4	1.75*				Stiff brown and gray silty CLAY, little sand and gravel, moist (CL)
							5.5		
3	SS		34	13.2					Dense to very dense gray SILT, trace sand, little gravel, occasional Cobbles, moist (ML)
4	SS		78	7.1					
5	SS		100/5"	7.8			11.0		Very dense Weathered/Fractured Bedrock or Boulder Zone [Hard Drilling], moist
6	SS		100/2"	1.5					
									End of Boring at 13.7'
									Auger Refusal on Apparent Bedrock at 13.7'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **358**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **8** DATE STARTED **12-7-23** DATE COMPLETED **12-7-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER LEVEL OBSERVATIONS

WHILE DRILLING **6.0 '**

AT END OF BORING **Dry**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.4		4½" Bituminous Concrete
							1.1		FILL - Crushed Stone
1	SS		8	17.7	1.0*				FILL - Brown silty CLAY, little to some sand and gravel, moist to very moist (CL)
							3.0		
2	SS		5	16.4	0.5*				FILL - Brown and gray very silty CLAY, little sand and gravel, very moist (CL-ML)
							6.0		
3	SS		17	12.8					Medium dense brown and gray SILT, little sand, trace gravel, wet (ML)
							8.0		
4	SS		62-50/3"						Very dense gray silty SAND and GRAVEL, numerous Cobbles or Boulders, wet (SM/GM)
5	SS		55-50/4"						Possible Fractured Bedrock or Boulder Zone [Hard Drilling]
6	SS		71						
									End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **358**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **9** DATE STARTED **12-7-23** DATE COMPLETED **12-7-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.4		4½" Bituminous Concrete
							1.0		FILL - Crushed Stone
A				12.5					FILL - Brown silty SAND, Crushed Concrete, trace Brick, moist (SM)
1	SS		16				2.0		
B				19.2	1.5*	110			FILL - Brown and dark brown very silty CLAY, little sand, moist to very moist (CL)
							3.0		
2	SS		9	21.3	0.75*	107			FILL - Brown, gray and dark brown silty CLAY, little sand, trace gravel, very moist (CL)
3	SS		8	19.2	0.75*	111			
							8.0		
4	SS		30	15.5					Dense brownish-gray clayey SILT, trace sand and gravel, numerous Cobbles, very moist (ML)
							10.5		
5	SS		35	17.7					Dense gray SILT, trace sand, trace clay, numerous Cobbles, very moist (ML)
							13.0		
6	SS		33	10.1					Dense gray silty fine SAND, little gravel, numerous Cobbles, moist (SM)
									End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **358**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC 96622.GPJ TSC_ALL.GDT 1/4/24

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **10** DATE STARTED **12-8-23** DATE COMPLETED **12-8-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER LEVEL OBSERVATIONS

WHILE DRILLING **8.0 '**

AT END OF BORING **5.0 '**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.4		4¾" Bituminous Concrete
							1.1		FILL - Crushed Stone
1	SS		7	19.6	3.0*	107			FILL - Brown and dark brown silty CLAY, little sand, trace gravel, moist (CL)
							3.0		
2	SS		6	22.2					FILL - Brown and gray SILT, moist (ML)
							5.5		
3	SS		9	22.8					FILL - Brown and gray clayey SILT, moist (ML)
							8.0		
4	SS		5	153	0.25*				Sample 4: Organic Content by LOI = 47.4% Very soft black ORGANIC CLAY and PEAT, trace roots, very moist (OH/Pt)
							10.5		
5	SS		5	110	0.25*				Sample 5: Organic Content by LOI = 10.5% Very soft dark gray ORGANIC CLAY, trace shells, very moist (OH)
							13.0		
6	SS		15	20.4					Medium dense gray SILT, little sand, wet (ML)
									End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **358**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC 96622.GPJ TSC_ALL.GDT 1/4/24

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **11** DATE STARTED **12-7-23** DATE COMPLETED **12-7-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER LEVEL OBSERVATIONS

WHILE DRILLING **8.0 '**

AT END OF BORING **7.0 '**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.4		5" Bituminous Concrete
							1.1		FILL - Crushed Stone
1	SS		5	19.7	2.5*	105			FILL - Brown and gray very silty CLAY, little sand, trace gravel, moist (CL-ML)
							3.0		
2	SS		8	17.9	1.5*	112			FILL - Brown and dark brown very silty CLAY, little sand, trace Cinders, very moist to moist (CL-ML)
							5.5		
3	SS		6	7.3					▽ FILL - Black Cinders, moist to wet
							8.0		
4	SS		2	208	<0.25*				Sample 4: Organic Content by LOI = 27.9% FILL - Black ORGANIC CLAY and PEAT, trace Crushed Concrete, very moist (OH/Pt)
							10.5		
5	SS		11	19.4					Medium dense to dense gray SILT, trace sand and gravel, trace clay, wet (ML)
6	SS		40	18.3					
									End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **358**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC 96622.GPJ TSC_ALL.GDT 1/4/24

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **12** DATE STARTED **12-7-23** DATE COMPLETED **12-7-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.4		4½" Bituminous Concrete
							1.1		FILL - Crushed Stone
1	SS		10	15.1	2.0*	116			FILL - Brown and dark brown silty CLAY, little sand, trace gravel, trace organic, moist (CL)
							3.0		
2	SS		7	18.4	1.75*	112			FILL - Brown and gray silty CLAY, little sand, trace gravel, moist (CL)
							5.5		
3	SS		10	19.9	1.25*	110			FILL - Brown and gray silty CLAY, little sand, trace gravel, trace Cinders, moist to very moist (CL)
							8.0		
4	SS		13	12.9	4.5+*				Hard brown and gray silty CLAY, little to some sand and gravel, moist (CL)
							10.5		
5	SS		15	19.2					Medium dense gray SILT, trace sand, trace clay, very moist (ML)
							13.0		
6	SS		54	8.5					Very dense gray silty fine SAND and GRAVEL, numerous Cobbles, moist (SM)
									End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **358**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC 96622.GPJ TSC_ALL.GDT 1/4/24

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **13** DATE STARTED **12-9-23** DATE COMPLETED **12-9-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.4		Black clayey TOPSOIL (OL)
1	SS		5	23.8	1.25*		3.0		Stiff brown very silty CLAY, trace sand, moist to very moist (CL)
2	SS		5	18.3	0.75*		5.5		Medium stiff brown trace gray very silty CLAY, little sand and gravel, very moist (CL-ML)
3	SS		5	21.7			8.0		Loose brown and gray clayey SILT, trace sand, very moist (ML)
4	SS		3	38.0	1.0*		10.5		Stiff brownish-gray silty CLAY, trace sand, moist (CL/CH)
5	SS		4	236	0.25*		13.0		Sample 5: Organic Content by LOI = 38.3% Very soft dark brown ORGANIC CLAY and PEAT, trace shells, very moist (OH/Pt)
6	SS		15	14.6					Medium dense gray silty fine SAND, moist (SM)
									End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **390**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC 96622.GPJ TSC_ALL.GDT 1/4/24

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **14** DATE STARTED **12-9-23** DATE COMPLETED **12-9-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		Black clayey TOPSOIL (OL)
1	SS		4	20.4			0.9		Loose brown clayey SILT, little sand, moist (ML)
2	SS		5	22.0					
3	SS		5	25.3					
4	SS		4	27.2			8.0		Loose brown and gray clayey SILT, trace sand, occasional silt seams, very moist (ML)
5	SS		25	17.1			10.5		Medium dense gray SILT, trace sand, moist (ML)
6	SS		41-50/5"	10.0			13.0		Very dense gray silty fine SAND, occasional Cobbles and Boulders, moist (SM)
									Possible Fractured Bedrock or Boulder Zone [Hard Drilling]
									End of Boring at 14.4'
									Auger Refusal on Apparent Bedrock at 14.4'
									* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **390**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC 96622.GPJ TSC_ALL.GDT 1/4/24

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **15** DATE STARTED **12-9-23** DATE COMPLETED **12-9-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		Black clayey TOPSOIL (OL)
1	SS		4	19.5	1.25*		1.3		Stiff brown and dark brown very silty CLAY, little sand and gravel, trace organic, moist to very moist (CL-ML)
2	SS		5	22.2	1.31 1.25*		3.0		Stiff brown trace dark brown silty CLAY, little sand, trace gravel, trace organic, moist to very moist (CL)
3	SS		10	23.3			5.5		Medium dense brown and gray clayey SILT, little sand, moist (ML)
4	SS		21-50/4"	11.2			8.0		Very dense gray SILT, little sand, trace clay, occasional Cobbles, moist (ML) Possible Weathered/Fractured Bedrock or Boulder Zone [Hard Drilling]
5	SS		73/4"	3.8					
6	SS		48-50/3"	9.8					
									End of Boring at 14.3' Auger Refusal on Apparent Bedrock at 14.3'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **390**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC 96622.GPJ TSC_ALL.GDT 1/4/24

PROJECT **Proposed Tiered Retaining Walls, NEC 109th St. and Kilpatrick Ave, Oak Lawn, IL**

CLIENT **Christopher B. Burke Engineering, Ltd., 9575 West Higgins Road, Rosemont, IL**

BORING **101** DATE STARTED **2-12-24** DATE COMPLETED **2-12-24** JOB **L-96,798**

ELEVATIONS

GROUND SURFACE **596.5**

END OF BORING **581.5**

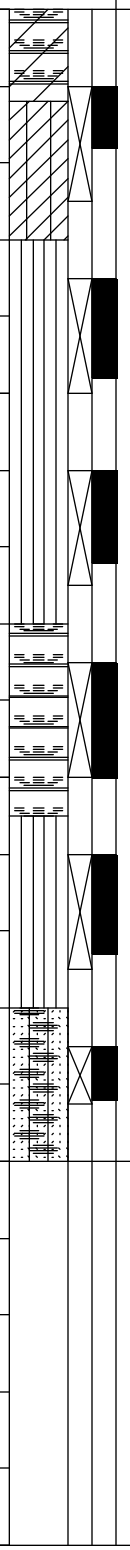
WATER LEVEL OBSERVATIONS

WHILE DRILLING **13.0 '**

AT END OF BORING **13.0 '**

24 HOURS

DISTANCE BELOW SURFACE IN FEET



LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		
									Black clayey TOPSOIL (OL)
							1.2	595.3	
	1	SS	6	19.5	3.5*				Very stiff brown silty CLAY, little sand, trace gravel, occasional sand seams, moist (CL)
							3.0	593.5	
	2	SS	5	20.4					Loose brown and gray clayey SILT, little sand, moist (ML)
	3	SS	4	26.2					
							8.0	588.5	
	4	SS	7	200	0.5*				Black PEAT, very moist (Pt) LOI = 44.4%
							10.5	586.0	
	5	SS	18	19.8					Medium dense gray clayey SILT, trace sand, moist to very moist (ML)
							13.0	583.5	
	6	SS	20-50/3"	11.3					Very dense gray silty SAND and GRAVEL, occasional Cobbles, wet (SM/GM) Possible Weathered/Fractured Bedrock or Boulder Zone
									End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

DRILL RIG NO. **262**

PROJECT **Proposed Tiered Retaining Walls, NEC 109th St. and Kilpatrick Ave, Oak Lawn, IL**

CLIENT **Christopher B. Burke Engineering, Ltd., 9575 West Higgins Road, Rosemont, IL**

BORING **102** DATE STARTED **2-12-24** DATE COMPLETED **2-12-24** JOB **L-96,798**

ELEVATIONS

GROUND SURFACE **596.5**

END OF BORING **581.5**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **13.0 '**

AT END OF BORING **13.0 '**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		
									FILL - Black clayey TOPSOIL (OL)
							1.0	595.5	
1	SS		6	15.1	1.5*	120			FILL - Dark brown silty CLAY, little sand and gravel, trace roots, moist to very moist (CL)
							3.0	593.5	
2	SS		5	21.8					Loose brown and gray sandy SILT, trace clay, moist (ML)
							5.5	591.0	
3	SS		3	29.5	0.5*				Soft to medium stiff gray silty CLAY, trace sand, trace shells, very moist (CL/CH)
4	SS		1	30.1	0.75*				
							10.5	586.0	
5	SS		4	150	0.5*				Black PEAT with shells, very moist (Pt)
							13.0	583.5	
6	SS		31	20.5					Dense gray clayey SILT, little sand and gravel, occasional Cobbles, wet (ML)
							15.0		End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20

DRILL RIG NO. **262**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC 96798.GPJ TSC_ALL.GDT 3/1/24

PROJECT **Proposed Tiered Retaining Walls, NEC 109th St. and Kilpatrick Ave, Oak Lawn, IL**

CLIENT **Christopher B. Burke Engineering, Ltd., 9575 West Higgins Road, Rosemont, IL**

BORING **103** DATE STARTED **2-12-24** DATE COMPLETED **2-12-24** JOB **L-96,798**

ELEVATIONS

GROUND SURFACE **597.5**

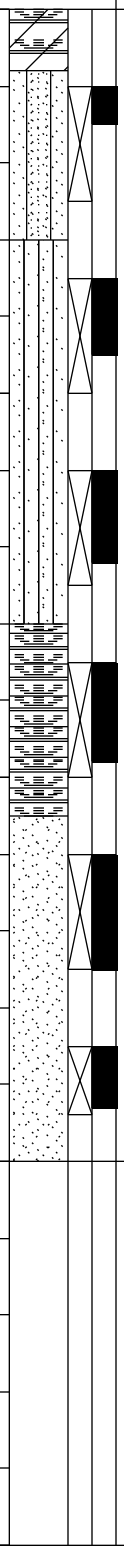
END OF BORING **582.5**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **10.5 '**

AT END OF BORING **11.0 '**

24 HOURS



SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
						0		
								Dark brown clayey TOPSOIL (OL)
						0.8	596.7	
1	SS	6	20.3					Loose brown silty SAND, moist (SM)
						3.0	594.5	
2	SS	8	17.8					Loose brown and gray sandy SILT, trace to little gravel, moist (ML)
3	SS	5	23.1					
						8.0	589.5	
4	SS	5	110	0.5*				Black ORGANIC CLAY with shells, very moist (OH)
						10.5	587.0	
5	SS	45	9.8					Dense to very dense gray SAND, little gravel, occasional Cobbles, wet (SP)
6	SS	32-50/5"	20.8					Possible Weathered/Fractured Bedrock or Boulder Zone
								End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

DRILL RIG NO. **262**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **Proposed Tiered Retaining Walls, NEC 109th St. and Kilpatrick Ave, Oak Lawn, IL**

CLIENT **Christopher B. Burke Engineering, Ltd., 9575 West Higgins Road, Rosemont, IL**

BORING **104** DATE STARTED **2-12-24** DATE COMPLETED **2-12-24** JOB **L-96,798**

ELEVATIONS

GROUND SURFACE **596.0**

END OF BORING **581.0**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **8.0 '**

AT END OF BORING **7.0 '**

24 HOURS

DISTANCE BELOW SURFACE IN FEET

LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		
							1.0	595.0	Black clayey TOPSOIL (OL)
	1	SS	8	22.4	1.0*				Medium stiff to stiff dark brown silty CLAY, little sand, trace gravel, trace root seams, moist to very moist (CL)
							3.0	593.0	
	2	SS	5	23.8					Loose brown and gray clayey SILT, little sand, moist to wet (ML)
	3	SS	4	24.9					▽
							8.0	588.0	▼
	4	SS	4	225	0.25*				Black PEAT, very moist (Pt) LOI = 37.6%
							10.5	585.5	
	5	SS	30	11.0					Dense gray silty SAND, wet (SM)
							13.0	583.0	
	6	SS	25	10.2	4.5+*				Hard gray very silty CLAY, little sand and gravel, moist (CL-ML)
							15		End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DRILL RIG NO. **262**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **Proposed Tiered Retaining Walls, NEC 109th St. and Kilpatrick Ave, Oak Lawn, IL**

CLIENT **Christopher B. Burke Engineering, Ltd., 9575 West Higgins Road, Rosemont, IL**

BORING **105** DATE STARTED **2-12-24** DATE COMPLETED **2-12-24** JOB **L-96,798**

ELEVATIONS

GROUND SURFACE **597.0**

END OF BORING **582.0**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **10.5 '**

AT END OF BORING **11.0 '**

24 HOURS

DISTANCE BELOW SURFACE IN FEET

LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		
							0.8	596.2	Black clayey TOPSOIL (OL)
	1	SS	5	17.5	1.25*				Stiff to medium stiff dark brown to brown silty CLAY, little sand, trace gravel, occasional sand seams, trace root seams, moist to very moist (CL)
	2	SS	5	19.8	1.0*		5		
							5.5	591.5	
	A			21.7					Loose brown and gray sandy SILT, trace clay, moist (ML)
	3	SS	6				7.0	590.0	
	B			21.9	1.0*				Medium stiff to stiff brown and gray silty CLAY, little sand, trace gravel, moist to very moist (CL)
	4	SS	4	22.1	1.25*				
							10.5	586.5	
	5	SS	6	250	0.25*				Black PEAT, very moist (Pt) LOI = 50.8%
							13.0	584.0	
	6	SS	37	18.9					Dense gray fine to medium SAND, wet (SP)
							15		End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DRILL RIG NO. **262**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **Proposed Tiered Retaining Walls, NEC 109th St. and Kilpatrick Ave, Oak Lawn, IL**

CLIENT **Christopher B. Burke Engineering, Ltd., 9575 West Higgins Road, Rosemont, IL**

BORING **106** DATE STARTED **2-12-24** DATE COMPLETED **2-12-24** JOB **L-96,798**

ELEVATIONS

GROUND SURFACE **596.5**

END OF BORING **581.5**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

24 HOURS

DISTANCE BELOW SURFACE IN FEET

LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		
									Black clayey TOPSOIL (OL)
							1.0	595.5	
	1	SS	7	18.6					Loose brown trace gray sandy SILT, trace clay, moist (ML)
	2	SS	6	20.8					
							5.0	591.5	
	3	SS	6	23.9	1.25*				Stiff brown and gray very silty CLAY, little sand, trace gravel, moist to very moist (CL-ML)
							8.0	588.5	
	4	SS	7	22.9	2.10 2.0*				Stiff to very stiff brown and gray silty CLAY, little sand, trace gravel, moist (CL)
							10.5	586.0	
	5	SS	18	15.0	4.5+*				Hard gray very silty CLAY, trace gravel, moist (CL-ML)
							13.0	583.5	
	6	SS	31	13.9					Dense gray SILT, little sand, moist (ML)
							15		End of Boring at 15.0'
									* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.
							20		

DRILL RIG NO. **262**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **Proposed Tiered Retaining Walls, NEC 109th St. and Kilpatrick Ave, Oak Lawn, IL**

CLIENT **Christopher B. Burke Engineering, Ltd., 9575 West Higgins Road, Rosemont, IL**

BORING **107** DATE STARTED **2-12-24** DATE COMPLETED **2-12-24** JOB **L-96,798**

ELEVATIONS

GROUND SURFACE **597.0**

END OF BORING **582.0**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **10.5 '**

AT END OF BORING **11.0 '**

24 HOURS

DISTANCE BELOW SURFACE IN FEET

LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		
									Black clayey TOPSOIL (OL)
	1	SS	5	25.6	1.5*		1.4	595.6	
									Stiff dark brown to brown silty CLAY, little sand, trace gravel, trace organic, moist to very moist (CL)
	2	SS	4	20.2			3.0	594.0	
									Loose brown sandy SILT, trace clay, moist (ML)
	3	SS	4	22.9			5.5	591.5	
									Loose brown and gray clayey SILT, little sand, moist (ML)
	4	SS	5	130	0.5*		8.0	589.0	
									Black ORGANIC CLAY, very moist (OH)
							10.5	586.5	
	5	SS	33	13.7					Dense gray sandy SILT, trace gravel, occasional Cobbles, occasional sand seams, moist (ML)
	6	SS	60	7.9			13.0	584.0	
									Very dense gray SAND and GRAVEL, occasional Cobbles, wet (SP/GP)
							15.0		End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DRILL RIG NO. **262**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **14** DATE STARTED **12-9-23** DATE COMPLETED **12-9-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE **595.5**

END OF BORING **581.1**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.9	594.6	Black clayey TOPSOIL (OL)
1	SS		4	20.4					Loose brown clayey SILT, little sand, moist (ML)
2	SS		5	22.0					
3	SS		5	25.3					
							8.0	587.5	
4	SS		4	27.2					Loose brown and gray clayey SILT, trace sand, occasional silt seams, very moist (ML)
							10.5	585.0	
5	SS		25	17.1					Medium dense gray SILT, trace sand, moist (ML)
							13.0	582.5	
6	SS		41-50/5"	10.0					Very dense gray silty fine SAND, occasional Cobbles and Boulders, moist (SM)
									Possible Fractured Bedrock or Boulder Zone [Hard Drilling]
									Auger Refusal on Apparent Bedrock at 14.4'

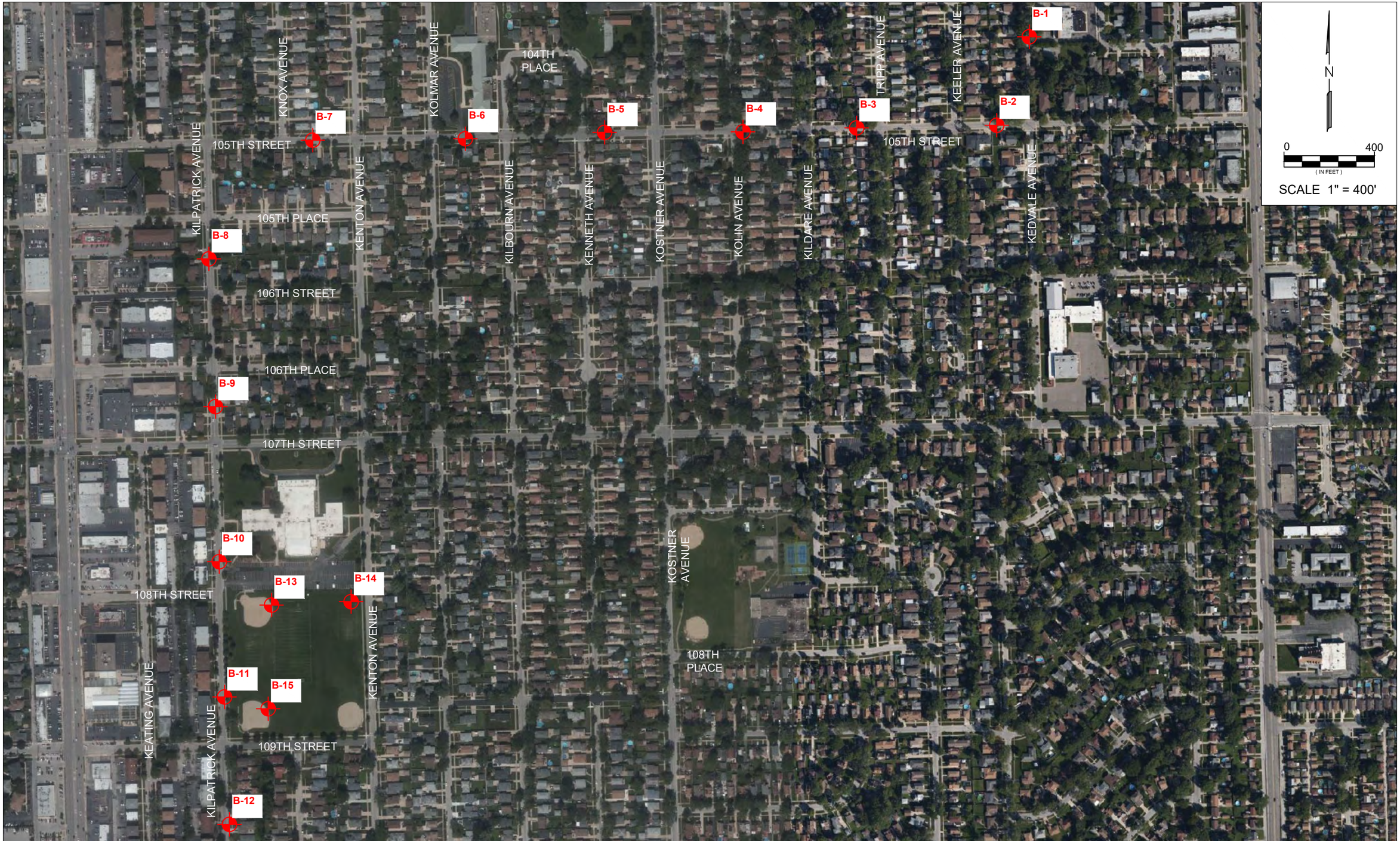
* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **390**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.



NOTE:

LEGEND

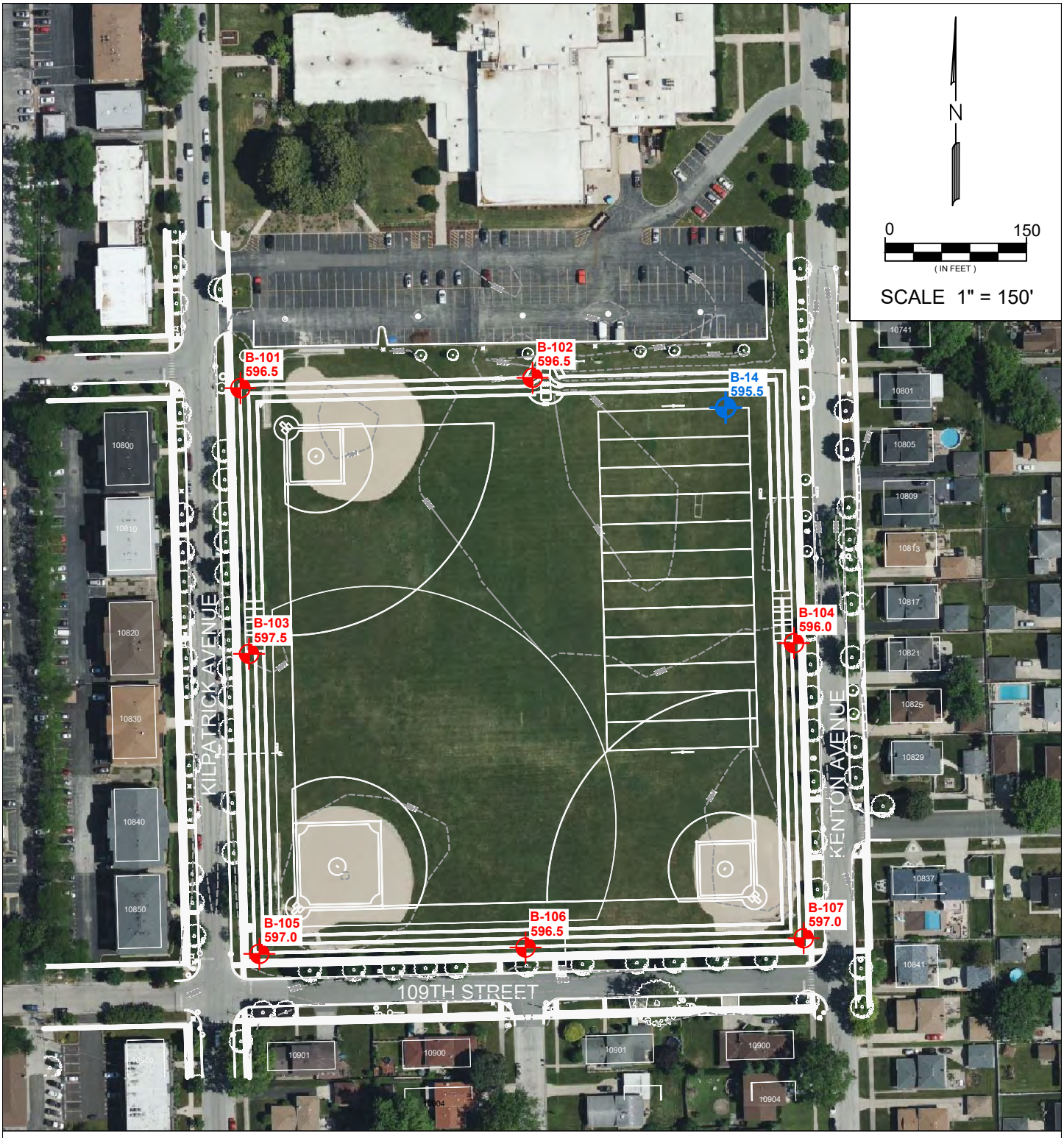
BORING LOCATION

BORING LOCATION PLAN
P.I.E. DETENTION AND STORMWATER IMPROVEMENTS
105TH STREET & KILPATRICK AVENUE
OAK LAWN, ILLINOIS

TESTING SERVICE CORPORATION
457 EAST GUNDERSEN DRIVE
CAROL STREAM, ILLINOIS 60188

DRAWN BY:	FFE
CHECKED BY:	RRK
JOB NO. :	L-96,622
DATE:	12-26-23

PAGE NO.
1 OF 1



BORING LOCATION PLAN
PROPOSED TIERED RETAINING WALLS
NEC 109TH STREET AND KILPATRICK AVENUE
OAK LAWN, ILLINOIS

LEGEND

L-96,798 / FEB 2024

L-96,622 / DEC. 2023

NOTE:
GROUND SURFACE ELEVATIONS AT THE BORINGS WERE ACQUIRED BY TSC USING A TRIMBLE R12 GNSS RECEIVER, BEING ROUNDED TO THE NEAREST 0.5 FOOT.

TESTING SERVICE CORP.
457 EAST GUNDERSEN DRIVE
CAROL STREAM, ILLINOIS 60188

DRAWN BY:	MAB
CHECKED BY:	TRP
JOB NO. :	L-96,798
DATE:	02-27-24

PAGE NO.
1 OF 1

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Local Office
March 1, 2024

Mr. Jefferey M. Barnett, PE
Christopher B. Burke Engineering, Ltd.
9575 West Higgins Road, Suite 600
Rosemont, IL 60018

Re: L-96,798
Proposed Tiered Retaining Walls
P.I.E. Detention System
NEC 109th St. and Kilpatrick Ave.
Oak Lawn, Illinois

Dear Mr. Barnett:

This report presents the results of a soils investigation performed for the proposed tiered retaining walls in connection with the P.I.E. detention system in Oak Lawn, Illinois. These geotechnical engineering services are being provided in accordance with TSC Proposal No. 71,890 dated October 2, 2023. TSC previously performed a subsurface exploration for the associated P.I.E. Detention and Stormwater Improvements under TSC Project No. L-96,622 with the report dated January 5, 2024, the results of B-14 are incorporated herein.

The project site is located on the northeast corner (NEC) of 109th Street and Kilpatrick Avenue. Current plans call for the construction of a 3-tiered retaining wall around Polaris Park in connection with the P.I.E. detention system. Plans provided show the 3-tiered retaining wall having an overall height of approximately 5.4 feet, with each tier having exposed wall heights of 1.6 to 2.0 feet. In this regard, the top of the wall for the top tier is tentatively set at about Elevation 596.35, with the finished grade on the low side of the bottom tier set at Elevation 591.0. The new retaining walls will each likely consist of a large modular block wall.

Field Investigation and Laboratory Testing

Seven (7) soil borings (Nos. 101 - 107) were performed as part of this soils exploration, with B-14 drilled under TSC Job No. L-96,622 also included. The boring locations were laid out in the field by TSC. Ground surface elevations at the borings were also acquired by TSC using a Trimble R12 GNSS receiver, being rounded to the nearest 0.5 foot. A Boring Location Plan is enclosed showing the drilling layout, being plotted on the current site plan as well as an aerial photograph of the project area.

The borings were all extended to 15 feet below existing grade. They were drilled and samples tested in accordance with the current recommended American Society for Testing and Materials specifications. Soil sampling was performed at 2½-foot intervals in conjunction with the Standard Penetration Test (SPT), for which driving resistance to a 2" split-spoon sampler (N-value in blows per foot) provides an indication of the relative density of granular materials and consistency of cohesive soils. Water level readings were taken during and following completion of drilling operations, with the boreholes then immediately backfilled for safety reasons.

Soil samples were examined in the laboratory to verify field descriptions and to classify them in accordance with the Unified Soil Classification System. Laboratory testing included moisture content determinations for all cohesive and intermediate (silt or loamy) soil types. An estimate of unconfined compressive strength was obtained for all cohesive soils using a calibrated pocket penetrometer (Qp). A dy unit weight test was also run on a specimen of cohesive fill. It should be noted that in the absence of foreign substances, it is often very difficult or nearly impossible to distinguish disturbed native soils from existing fill materials.

Reference is made to the boring logs in the Appendix which indicate subsurface stratigraphy and soil descriptions, results of field and laboratory tests, as well as water level observations. Definitions of descriptive terminology are also included. While strata changes are shown as a definite line on the boring logs, the actual transition between soil layers is likely to be more gradual. Fluctuations in the groundwater level may also occur due to variations in precipitation (short-term and seasonal) as well as rises or drops in lake, river or other nearby surface water features, i.e. water levels at a future date may be higher or lower than those recorded at the time of drilling.

Discussion of Test Data

Surficial topsoil (native and/or fill) was 10 to 17 inches thick at the boring locations. Silty clay fill was found underlying the topsoil layer in B-102, extending approximately 3 feet below existing grade. The sample of cohesive fill had a dry unit weight of 120 pounds per cubic foot (pcf) at a water content of 15 percent. It also had a pocket penetrometer reading (estimate of unconfined compressive strength) of 1.5 tons per square foot (tsf).

Peat and/or organic clay soils were encountered below depths of 8 to 10½ feet in Borings 101 - 105 and 107, extending 10½ to 13 feet below existing grade. These soft/compressible soil types had unconfined compressive strengths (as estimated by a pocket penetrometer) of 0.5 tons per square foot (tsf) or less. Water contents of these organic soils ranged from 110 to 250 percent. Loss-on-Ignition (LOI) organic content tests were performed on representative samples of the organic soils. The LOI organic contents were found to range from 37.6% to 50.8%.

The native soils found above and below the organic deposits were variable in composition at the boring locations. Silty clay and very silty clay types were frequently encountered along with sand, sand/gravel, silty sand (and gravel), silt and clayey silt deposits. These inorganic cohesive, granular and intermediate materials normally occurred as stratified deposits, with multiple layers encountered in the borings.

The inorganic, native cohesive materials were typically in a stiff to hard condition. These low to medium plasticity (CL and CL-ML by Unified classification) exhibited unconfined compressive strengths ranging from 1.0 to 4.5+ tsf at water contents varying from 10 to 24 percent. An exception was noted in B-102, where soft to medium stiff clay soils of apparent medium to high plasticity were found above

the peat deposit. These borderline CL/CH type materials had unconfined compressive strengths of 0.5 to 0.75 tsf at water contents on the order of 30 percent.

The intermediate materials found in the upper 8 feet (above the organic deposits) were in a loose condition having SPT N-values ranging from 4 to 8 blows per foot (bpf). The granular and intermediate materials found below a depth of 10 feet were in a dense to very dense condition having SPT N-values typically varying from 30 to 60 bpf, being up to 50 blows for 3 inches in Borings 101 and 103 (possible bedrock or boulder zones).

Free water was initially revealed at depths of 8 to 13 feet below existing grade in Borings 101 - 105 and 107. Upon completion of drilling operations, the water level in the boreholes generally remained constant or within 1 foot of initial readings. Boring 106 was “dry” both during and upon completion of drilling operations.

Analysis and Recommendations

Current plans call for the construction of a 3-tiered retaining wall that would will extend about 2400 linear feet (lf) around Polaris Park in connection with the P.I.E. detention system. The proposed wall system will likely consist of large modular block walls. The 3-tiered retaining wall will have an overall height of approximately 5.4 feet, with each tier having exposed wall heights of 1.6 to 2.0 feet. In this regard, the top of the wall for the top tier is tentatively set at about Elevation 596.35, with the bottom of the wall for the bottom tier set at Elevation 591.0. The blocks at each tier of the proposed wall will likely extend about 1½ feet below finished grade and bear on about 12 inches of granular base. Therefore, the base course at the bottom of the lowest tier of the retaining wall would bear at approximate Elevation 588.5.

Summarized in the following table is the existing grade at Borings 101 - 107 as well as B-14 (L-96,622). Also provided is the approximate depth to the lowest tier of the retaining wall leveling pad at each boring location, measured from existing grade of each boring to Elevation 588.5. Foundation notes are finally provided for the leveling pad bearing elevation.

Boring No.	Existing Grade	Lowest Tier Retaining Wall Leveling Pad	
		Depth (feet) *	Foundation Notes
101	596.5	8.0	2.5' U (Peat)
102	596.5	8.0	5.0' U (Clay over Peat)
103	597.5	9.0	1.5' U (Organic Clay)
104	596.0	7.5	3.0' U (Peat)
105	597.0	8.5	4.5' U (Clay over Peat)
106	596.5	8.0	Very stiff Silty Clay

107	597.0	8.5	2.0' U (Organic Clay)
14	595.5	7.0	Loose Silt

* Estimated depth of leveling pad of the lowest wall tier measured from existing grade of boring to Elevation 588.5.

U Retaining wall undercut depth is recommended in order to remove organic deposits and reach suitable bearing soils.

Borings 101 - 107 were drilled for the proposed wall with the results of B-14 (L-96,622) also incorporated. Very stiff native silty clay soils were encountered at the approximate retaining wall bearing level in Boring 106. These native clay soils are considered suitable for retaining wall support.

A loose silt deposit was found at the approximate retaining wall bearing level in Boring 14. These intermediate soil types are not recommended for direct support of the retaining wall, as they will likely become unstable when exposed by excavation, particularly in the presence of free water. Undercuts of 1 to 2 feet to be replaced with coarse aggregate should be anticipated in the area of B-14 in order to provide a stable base for retaining wall support.

Peat, organic clay and/or soft/very moist clay soils were encountered at the approximate bearing level of the proposed lower tier portion of the retaining wall in Borings 101 - 104 and 107 as well as below a stiffer clay crust in B–105. These soft/compressible soil types extended 10½ to 13 feet below existing grade. The organic soils had high moisture contents ranging from 110 to 250 percent.

The peat, organic clay and/or soft/very moist clays are not recommended for direct support of the lowest tier of the retaining wall, with long-term settlement being a concern. Undercuts of 1½ to 5 feet would be anticipated in the area of these borings in order to remove these compressible soils from beneath the lowest tier of the retaining wall and create a stable base for construction.

It should be understood that the peat and organic clay soil will rapidly slough off and squeeze out at the sides and bottom of the excavation for the retaining wall due to the weight of the soils above the organic layer. This would lead to loss of ground and settlement in surrounding areas and create a much larger excavation. This loss of ground would likely lead to the excavation sloping back at least a 6H:1V but possibly at an even flatter slope. The water level was encountered at the top of the organic layer in some cases, this will only exacerbate the sloughing/squeezing of the organic soils. In this regard, the excavation and loss of ground will affect the soils below the upper retaining wall tiers and likely expose the underlying organic materials in these areas. Therefore, if the organic soils were to be removed from beneath the lowest tier, then it is recommended that the buried peat and organic clay soils be removed and replaced below all retaining wall tiers.

Furthermore, the loss of ground and settlement in the surrounding areas would also likely encroach on any utilities within the roadway right-of-way as well as the existing roadways. Therefore in order to protect the utilities and sidewalk/roadways, sheeting (temporary or permanent) would need to be installed between the retaining wall and roadway/utilities. Once the sheeting is installed, removal and replacement of the peat and organic clay soils would then be performed below the tiered retaining wall.

The peat and organic soils will likely have to be disposed of off-site. However, any of the native and/or existing fill materials found above the peat/organic soils and meeting the material guidelines set forth for new fill may be reused.

Prior to the placement of replacement materials, the exposed subgrade soils should be evaluated to determine whether adequate compaction may be achieved for the first lift. Marginal subgrade stability and/or water problems, common conditions especially in deep undercuts, often mean that new fill materials cannot be initially compacted. Marginal bearing soils for fill placement or block support were revealed at the base of the undercut at most of the boring locations. Where this condition occurs, it is recommended that coarse aggregate “structural” fill be placed at the bottom of the excavation until a stable base for compaction of new fill is achieved. This typically consists of placement of a minimum of 12 to 24 inches of coarse aggregate fill such as IDOT gradation CA-1 ("3-inch rock"), usually compacted by track-rolling or tamping with an excavating machine (backhoe) bucket. It should be spread in maximum 18-inch layers and compacted to a dense and stable state.

New fill should ideally consist of inorganic silty clays of low to medium plasticity or approved granular materials. However, clayey silt, sandy silt, and silty sand deposits are likely to be generated in as part of the excavation. These intermediate materials are considered moisture sensitive, i.e. can experience a loss of stability when subjected to groundwater seepage or rainfall. They are also prone to instability under the traffic of heavy construction equipment as previously discussed. Furthermore, they are erodible.

Moisture control is important in the compaction of most soil types, and it is recommended that the water content of new fill be within 1 percentage point on the low side and 3 percentage points on the high side of optimum moisture as established by its laboratory compaction curve. If the soil is compacted too dry, it will have an apparent stability which may be lost if it later becomes saturated. If the soil is too wet, the Contractor will not be able to achieve proper compaction.

Alternate Option

In order to avoid installing sheeting and undercutting of the peat and organic clay soils, an alternate retaining wall design option has been proposed by the civil engineer (CBBEL). This option would consist of eliminating the two (2) lower tiers of the wall system and installing only an upper retaining wall tier. The ground in front of the wall would then slope down at a 4H:1V slope to the bottom of the P.I.E. detention system at about Elevation 591.0. In this scenario, the modular block retaining wall would likely have the top tentatively set at about Elevation 596.35 and an exposed wall height of 2 feet. The wall would also likely extend about 1½ feet below finished grade and bear on about 12 inches of granular base. Therefore, the base course for the wall would bear at approximate Elevation 594.35.

For this option, consideration may be given to leaving the peat and organic clay soils generally found below a depth of 589.5, (i.e. about 5 feet below the base of the wall) in place, with the understanding that some settlement of the retaining wall would be expected due to the buried organic soils.

In regards to this option, medium stiff to very stiff native silty clay soils were encountered at the approximate retaining wall bearing level in Borings 101, 104 and 105. These native clay soils had an unconfined compressive strength of 1.0 to 3.5 tsf, considered suitable for a maximum net allowable bearing pressure of 2000 psf.

Loose clayey silt and silty sand deposits were found at the alternate upper retaining wall bearing level in Borings 14, 103, 106 and 107. These intermediate soil types are likely to become unstable when exposed by excavation, particularly in the presence of free water. Undercuts of 1 to 2 feet to be replaced with free draining “structural” backfill in accordance with the paragraph presented above should be anticipated in these areas in order to provide a stable base for retaining wall support.

Existing clay fill materials were encountered at the approximate wall bearing level in B-102. The clay fill materials had a low pocket penetrometer reading of 1.5 tsf, considered marginally suitable for retaining wall support. If relatively unstable soils are exposed at the retaining wall bearing grade they should be removed and replaced with structural backfill. Undercuts of between 1 and 2 feet are generally required based on field observations. The overexcavations are then typically backfilled in accordance with the above recommended procedures.

It is understood that ramps and stairways are also planned at several locations around the perimeter of the detention system. Relatively unstable soils may also be exposed at the subgrade level at these locations. In this regard, unstable soils should be removed and replaced with structural backfill. Undercuts of between 1 and 2 feet are generally required based on field observations. The overexcavations are then typically backfilled in accordance with the above recommended procedures.

Closure

It is recommended that testing services be provided by Testing Service Corporation personnel during retaining wall foundation construction so that the bearing capacity of the soils at undercut and foundation levels can be verified. In addition, the adequacy of building materials should be observed and tested for compliance with the recommended procedures and specifications.

The analysis and recommendations submitted in this report are based upon the data obtained from the seven (7) soil borings performed as part of this investigation and one (1) as part of a previous investigation as indicated on the Boring Location Plan. This report does not reflect any variations which may occur between these borings or elsewhere on the site, the nature and extent of that may not become evident until during the course of construction. If variations are then identified, recommendations contained in this report should be re-evaluated after performing on-site observations.

Please call if there are any questions in regard to this matter or if we may be of further service.

Respectfully submitted,

TESTING SERVICE CORPORATION

Timothy R. Peceniak, P.E.
Project Engineer
Registered Professional Engineer
Illinois No. 062-061269

TRP:SRK:trp
Enc.

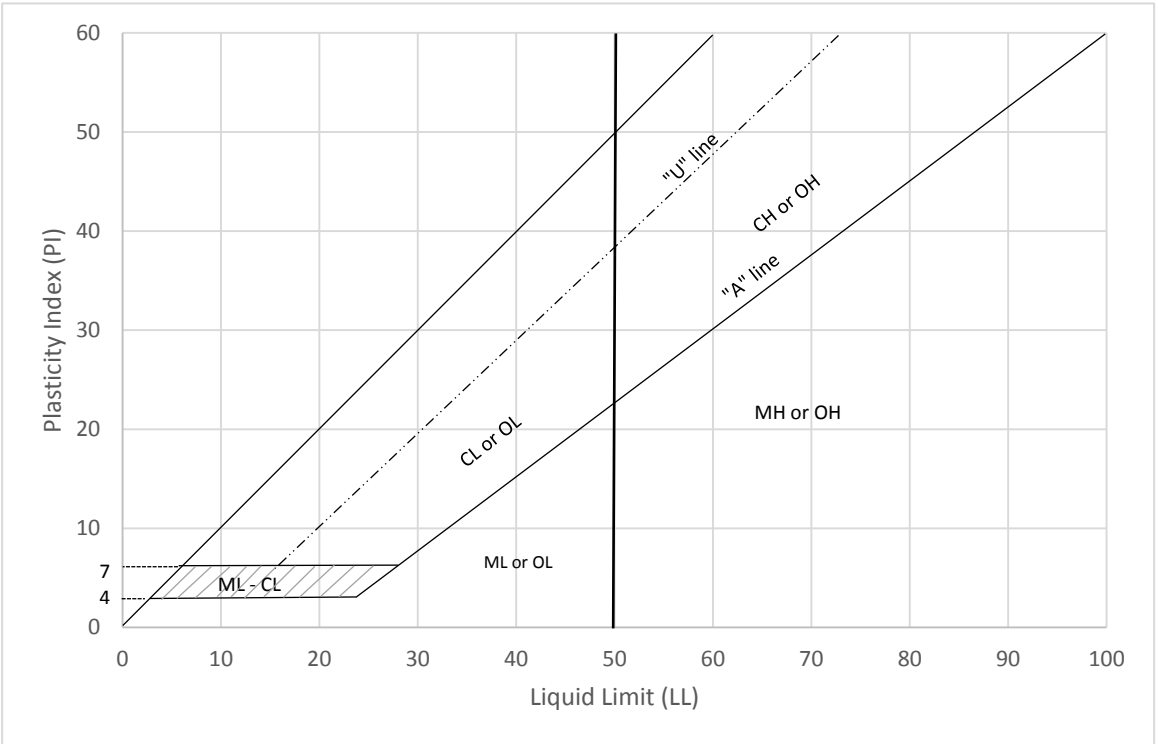
Steven R. Koester, P.E.
Vice President

Testing Service Corporation
Unified Classification Chart

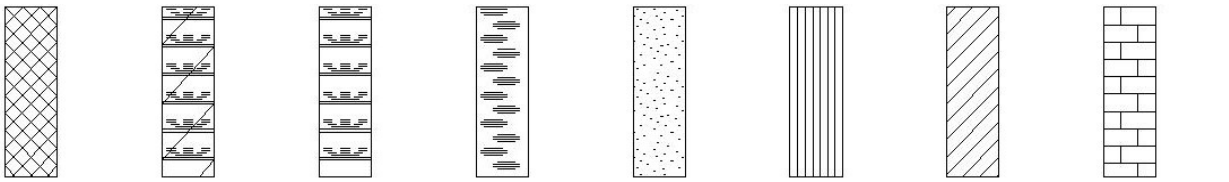
CRITERIA FOR ASSIGNING GROUP SYMBOLS AND GROUP NAMES USING LABORATORY TEST [a]				SOIL CLASSIFICATION	
				Group Symbol	GROUP NAME [b]
COARSE - GRAINED SOILS more than 50% retained on No. 200 sieve	GRAVELS More than 50% of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS less than 5% fines [c]	$C_u \geq 4$ and $1 \leq C_C \leq 3$ [e]	GW	Well-graded gravel [f]
			$C_u < 4$ and/or $1 > C_C > 3$ [e]	GP	Poorly-graded gravel [f]
		GRAVELS WITH FINES more than 12% fines [c]	Fines classify as ML or MH	GM	Silty gravel [f, g, h]
			Fines classify as CL or CH	GC	Clayey gravel [f, g, h]
	SANDS 50% or more of coarse fraction passes No. 4 sieve	CLEAN SANDS less than 5% fines [d]	$C_u \geq 6$ and $1 \leq C_C \leq 3$ [e]	SW	Well-graded sand [l]
			$C_u < 6$ and/or $1 > C_C > 3$ [e]	SP	Poorly-graded sand [l]
		SANDS WITH FINES more than 12% fines [d]	Fines classify as ML or MH	SM	Silty sand [g, h, f]
			Fines classify as CL or CH	SC	Clayey sand [g, h, f]
FINE - GRAINED SOILS 50% or more passed the No. 200 sieve	SILTS & CLAYS Liquid limit less than 50%	Inorganic	PI > 7 or plots on or above "A" line j	CL	Lean clay [k, l, m]
			PI < 4 or plots below "A" line j	ML	Silt [k, l, m]
		Organic	$\frac{\text{Liquid limit – oven dried}}{\text{Liquid limit – not dried}} < 0.75$	OL	Organic clay [k, l, m, n] Organic silt [k, l, m, o]
	SILTS & CLAYS Liquid limit 50% or more	Inorganic	PI plots on or above "A" line	CH	Fat clay [k, l, m]
			PI plots below "A" line	MH	Elastic silt [k, l, m]
		Organic	$\frac{\text{Liquid limit – oven dried}}{\text{Liquid limit – not dried}} < 0.75$	OH	Organic clay [k, l, m, p] Organic silt [k, l, m, q]
Highly organic soils		Primarily organic matter, dark in color, and organic odor		PT	Peat

a. Based on the material passing the 3-inch (75-mm) sieve.
b. If field sample contained cobbles and/or boulders, add "with cobbles and/or boulders" to group name
c. Gravels with 5 to 12% fines required dual symbols
GW-GM well graded gravel with silt
GW-GC well graded gravel with clay
GP-GM poorly graded gravel with silt
GP-GC poorly graded gravel with clay
d. Sands with 5 to 12% fines require dual symbols
SW-SM well graded sand with silt
SW-SC well graded sand with clay
SP-SM poorly graded sand with silt
SP-SC poorly graded sand with clay
e. $C_u = D_{60}/D_{10}$ $C_C = \frac{(D_{30})^2}{D_{10} \quad D_{60}}$

f. If soils contains ≥ 15% sand, add "with sand" to group name.
g. If fines classify as CL-ML, use dual symbol GC-GM, SC-SM
h. If fines are organic, add "with organic fines" to group name
i. If soils contains ≥ 15% gravel, add "with gravel" to group name
j. If Atterberg Limits plot in hatched area, soil is a CL – ML, silty clay
k. If soils contains 15 to 29% plus No. 200, add "with sand" or "with gravel" whichever is predominant
l. If soil contains ≥ 30% plus No. 200, predominantly sand, add "sandy" to group name.
m. If soils contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name
n. PI ≥ 4 and plots on or above "A" line
o. PI ≥ 4 and plots below "A" line
p. PI plots on or above "A" line
q. PI plots below "A" line



LEGEND FOR BORING LOGS



FILL TOPSOIL PEAT GRAVEL SAND SILT CLAY LIMESTONE/ DOLOMITE

SAMPLE TYPE

SS	=	Split-Spoon
ST	=	Thin-Walled Tube
A	=	Auger
MC	=	Macro-Core (Geoprobe)

WATER LEVEL OBSERVATIONS

▼	While Drilling
▽	End of Boring
▼	24 Hours

FIELD AND LABORATORY TEST DATA

N	=	Standard Penetration Resistance in Blows per Foot (bpf)
WC	=	In-Situ Water Content (%)
Qu	=	Unconfined Compressive Strength in Tons per Square Foot (tsf)
	*	Pocket Penetrometer Reading: Maximum Value = 4.5 tsf
γ_{dry}	=	Dry Unit Weight in Pounds per Cubic Foot (pcf)

SOIL DESCRIPTIONS:

MATERIAL	PARTICLE SIZE RANGE
BOULDER	Over 12 inches
COBBLE	12 inches to 3 inches
Large GRAVEL	3 inches to ¾ inch
Small GRAVEL	¾ inch to No. 4 Sieve
Coarse SAND	No. 4 Sieve to No. 10 Sieve
Medium SAND	No. 10 Sieve to No. 40 Sieve
Fine SAND	No. 40 Sieve to No. 200 Sieve
SILT and CLAY	Passing No. 200 Sieve

COHESIVE SOILS

CONSISTENCY	Qu (tsf)
Very Soft	Less than 0.25
Soft	0.25 to 0.5
Medium Stiff	0.5 to 1.0
Stiff	1.0 to 2.0
Very Stiff	2.0 to 4.0
Hard	4.0 and over

COHESIONLESS SOILS

RELATIVE DENSITY	N (bpf)
Very Loose	0 – 3
Loose	4 – 9
Medium Dense	10 – 29
Dense	30 – 49
Very Dense	50 and over

MODIFYING TERM	PERCENT BY WEIGHT
Trace	1 – 10
Little	10 – 20
Some	20 – 35

PROJECT **Proposed Tiered Retaining Walls, NEC 109th St. and Kilpatrick Ave, Oak Lawn, IL**

CLIENT **Christopher B. Burke Engineering, Ltd., 9575 West Higgins Road, Rosemont, IL**

BORING **101** DATE STARTED **2-12-24** DATE COMPLETED **2-12-24** JOB **L-96,798**

ELEVATIONS

GROUND SURFACE **596.5**

END OF BORING **581.5**

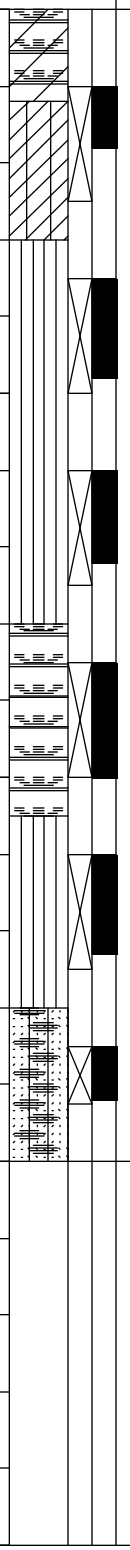
WATER LEVEL OBSERVATIONS

WHILE DRILLING **13.0 '**

AT END OF BORING **13.0 '**

24 HOURS

DISTANCE BELOW SURFACE IN FEET



LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		
									Black clayey TOPSOIL (OL)
							1.2	595.3	
	1	SS	6	19.5	3.5*				Very stiff brown silty CLAY, little sand, trace gravel, occasional sand seams, moist (CL)
							3.0	593.5	
	2	SS	5	20.4					Loose brown and gray clayey SILT, little sand, moist (ML)
	3	SS	4	26.2					
							8.0	588.5	
	4	SS	7	200	0.5*				Black PEAT, very moist (Pt) LOI = 44.4%
							10.5	586.0	
	5	SS	18	19.8					Medium dense gray clayey SILT, trace sand, moist to very moist (ML)
							13.0	583.5	
	6	SS	20-50/3"	11.3					Very dense gray silty SAND and GRAVEL, occasional Cobbles, wet (SM/GM) Possible Weathered/Fractured Bedrock or Boulder Zone
									End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

DRILL RIG NO. **262**

PROJECT **Proposed Tiered Retaining Walls, NEC 109th St. and Kilpatrick Ave, Oak Lawn, IL**

CLIENT **Christopher B. Burke Engineering, Ltd., 9575 West Higgins Road, Rosemont, IL**

BORING **102** DATE STARTED **2-12-24** DATE COMPLETED **2-12-24** JOB **L-96,798**

ELEVATIONS

GROUND SURFACE **596.5**

END OF BORING **581.5**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **13.0 '**

AT END OF BORING **13.0 '**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		
									FILL - Black clayey TOPSOIL (OL)
							1.0	595.5	
1	SS		6	15.1	1.5*	120			FILL - Dark brown silty CLAY, little sand and gravel, trace roots, moist to very moist (CL)
							3.0	593.5	
2	SS		5	21.8					Loose brown and gray sandy SILT, trace clay, moist (ML)
							5.5	591.0	
3	SS		3	29.5	0.5*				Soft to medium stiff gray silty CLAY, trace sand, trace shells, very moist (CL/CH)
4	SS		1	30.1	0.75*				
							10.5	586.0	
5	SS		4	150	0.5*				Black PEAT with shells, very moist (Pt)
							13.0	583.5	
6	SS		31	20.5					Dense gray clayey SILT, little sand and gravel, occasional Cobbles, wet (ML)
							15.0		End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20

DRILL RIG NO. **262**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC 96798.GPJ TSC_ALL.GDT 3/1/24

PROJECT **Proposed Tiered Retaining Walls, NEC 109th St. and Kilpatrick Ave, Oak Lawn, IL**

CLIENT **Christopher B. Burke Engineering, Ltd., 9575 West Higgins Road, Rosemont, IL**

BORING **103** DATE STARTED **2-12-24** DATE COMPLETED **2-12-24** JOB **L-96,798**

ELEVATIONS

GROUND SURFACE **597.5**

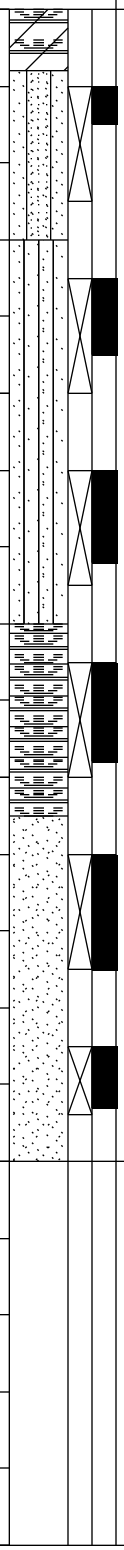
END OF BORING **582.5**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **10.5 '**

AT END OF BORING **11.0 '**

24 HOURS



SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
						0		
								Dark brown clayey TOPSOIL (OL)
						0.8	596.7	
1	SS	6	20.3					Loose brown silty SAND, moist (SM)
						3.0	594.5	
2	SS	8	17.8					Loose brown and gray sandy SILT, trace to little gravel, moist (ML)
3	SS	5	23.1					
						8.0	589.5	
4	SS	5	110	0.5*				Black ORGANIC CLAY with shells, very moist (OH)
						10.5	587.0	
5	SS	45	9.8					Dense to very dense gray SAND, little gravel, occasional Cobbles, wet (SP)
6	SS	32-50/5"	20.8					Possible Weathered/Fractured Bedrock or Boulder Zone
								End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

DRILL RIG NO. **262**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **Proposed Tiered Retaining Walls, NEC 109th St. and Kilpatrick Ave, Oak Lawn, IL**

CLIENT **Christopher B. Burke Engineering, Ltd., 9575 West Higgins Road, Rosemont, IL**

BORING **104** DATE STARTED **2-12-24** DATE COMPLETED **2-12-24** JOB **L-96,798**

ELEVATIONS

GROUND SURFACE **596.0**

END OF BORING **581.0**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **8.0 '**

AT END OF BORING **7.0 '**

24 HOURS

DISTANCE BELOW SURFACE IN FEET

LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		
							1.0	595.0	Black clayey TOPSOIL (OL)
	1	SS	8	22.4	1.0*				Medium stiff to stiff dark brown silty CLAY, little sand, trace gravel, trace root seams, moist to very moist (CL)
							3.0	593.0	
	2	SS	5	23.8					Loose brown and gray clayey SILT, little sand, moist to wet (ML)
	3	SS	4	24.9					▽
							8.0	588.0	▼
	4	SS	4	225	0.25*				Black PEAT, very moist (Pt) LOI = 37.6%
							10.5	585.5	
	5	SS	30	11.0					Dense gray silty SAND, wet (SM)
							13.0	583.0	
	6	SS	25	10.2	4.5+*				Hard gray very silty CLAY, little sand and gravel, moist (CL-ML)
							15		End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DRILL RIG NO. **262**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **Proposed Tiered Retaining Walls, NEC 109th St. and Kilpatrick Ave, Oak Lawn, IL**

CLIENT **Christopher B. Burke Engineering, Ltd., 9575 West Higgins Road, Rosemont, IL**

BORING **105** DATE STARTED **2-12-24** DATE COMPLETED **2-12-24** JOB **L-96,798**

ELEVATIONS

GROUND SURFACE **597.0**

END OF BORING **582.0**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **10.5 '**

AT END OF BORING **11.0 '**

24 HOURS

DISTANCE BELOW SURFACE IN FEET

LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		
							0.8	596.2	Black clayey TOPSOIL (OL)
	1	SS	5	17.5	1.25*				Stiff to medium stiff dark brown to brown silty CLAY, little sand, trace gravel, occasional sand seams, trace root seams, moist to very moist (CL)
	2	SS	5	19.8	1.0*		5		
							5.5	591.5	
	A			21.7					Loose brown and gray sandy SILT, trace clay, moist (ML)
	3	SS	6				7.0	590.0	
	B			21.9	1.0*				Medium stiff to stiff brown and gray silty CLAY, little sand, trace gravel, moist to very moist (CL)
	4	SS	4	22.1	1.25*				
							10.5	586.5	
	5	SS	6	250	0.25*				Black PEAT, very moist (Pt) LOI = 50.8%
							13.0	584.0	
	6	SS	37	18.9					Dense gray fine to medium SAND, wet (SP)
							15		End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DRILL RIG NO. **262**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **Proposed Tiered Retaining Walls, NEC 109th St. and Kilpatrick Ave, Oak Lawn, IL**

CLIENT **Christopher B. Burke Engineering, Ltd., 9575 West Higgins Road, Rosemont, IL**

BORING **106** DATE STARTED **2-12-24** DATE COMPLETED **2-12-24** JOB **L-96,798**

ELEVATIONS

GROUND SURFACE **596.5**

END OF BORING **581.5**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

24 HOURS

DISTANCE BELOW SURFACE IN FEET

LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		
									Black clayey TOPSOIL (OL)
							1.0	595.5	
	1	SS	7	18.6					Loose brown trace gray sandy SILT, trace clay, moist (ML)
	2	SS	6	20.8					
							5.0	591.5	
	3	SS	6	23.9	1.25*				Stiff brown and gray very silty CLAY, little sand, trace gravel, moist to very moist (CL-ML)
							8.0	588.5	
	4	SS	7	22.9	2.10 2.0*				Stiff to very stiff brown and gray silty CLAY, little sand, trace gravel, moist (CL)
							10.5	586.0	
	5	SS	18	15.0	4.5+*				Hard gray very silty CLAY, trace gravel, moist (CL-ML)
							13.0	583.5	
	6	SS	31	13.9					Dense gray SILT, little sand, moist (ML)
							15		End of Boring at 15.0'
									* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.
							20		

DRILL RIG NO. **262**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **Proposed Tiered Retaining Walls, NEC 109th St. and Kilpatrick Ave, Oak Lawn, IL**

CLIENT **Christopher B. Burke Engineering, Ltd., 9575 West Higgins Road, Rosemont, IL**

BORING **107** DATE STARTED **2-12-24** DATE COMPLETED **2-12-24** JOB **L-96,798**

ELEVATIONS

GROUND SURFACE **597.0**

END OF BORING **582.0**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **10.5 '**

AT END OF BORING **11.0 '**

24 HOURS

DISTANCE BELOW SURFACE IN FEET

LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		
									Black clayey TOPSOIL (OL)
	1	SS	5	25.6	1.5*		1.4	595.6	
									Stiff dark brown to brown silty CLAY, little sand, trace gravel, trace organic, moist to very moist (CL)
	2	SS	4	20.2			3.0	594.0	
									Loose brown sandy SILT, trace clay, moist (ML)
	3	SS	4	22.9			5.5	591.5	
									Loose brown and gray clayey SILT, little sand, moist (ML)
	4	SS	5	130	0.5*		8.0	589.0	
									Black ORGANIC CLAY, very moist (OH)
							10.5	586.5	
	5	SS	33	13.7					Dense gray sandy SILT, trace gravel, occasional Cobbles, occasional sand seams, moist (ML)
	6	SS	60	7.9			13.0	584.0	
									Very dense gray SAND and GRAVEL, occasional Cobbles, wet (SP/GP)
							15.0		End of Boring at 15.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DRILL RIG NO. **262**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **P.I.E. Detention and Stormwater Improvements, Oak Lawn, Illinois**

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, Illinois**

BORING **14** DATE STARTED **12-9-23** DATE COMPLETED **12-9-23** JOB **L-96,622**

ELEVATIONS

GROUND SURFACE **595.5**

END OF BORING **581.1**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

24 HOURS

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.9	594.6	Black clayey TOPSOIL (OL)
1	SS		4	20.4					Loose brown clayey SILT, little sand, moist (ML)
2	SS		5	22.0					
3	SS		5	25.3					
							8.0	587.5	
4	SS		4	27.2					Loose brown and gray clayey SILT, trace sand, occasional silt seams, very moist (ML)
							10.5	585.0	
5	SS		25	17.1					Medium dense gray SILT, trace sand, moist (ML)
							13.0	582.5	
6	SS		41-50/5"	10.0					Very dense gray silty fine SAND, occasional Cobbles and Boulders, moist (SM)
									Possible Fractured Bedrock or Boulder Zone [Hard Drilling]
									Auger Refusal on Apparent Bedrock at 14.4'

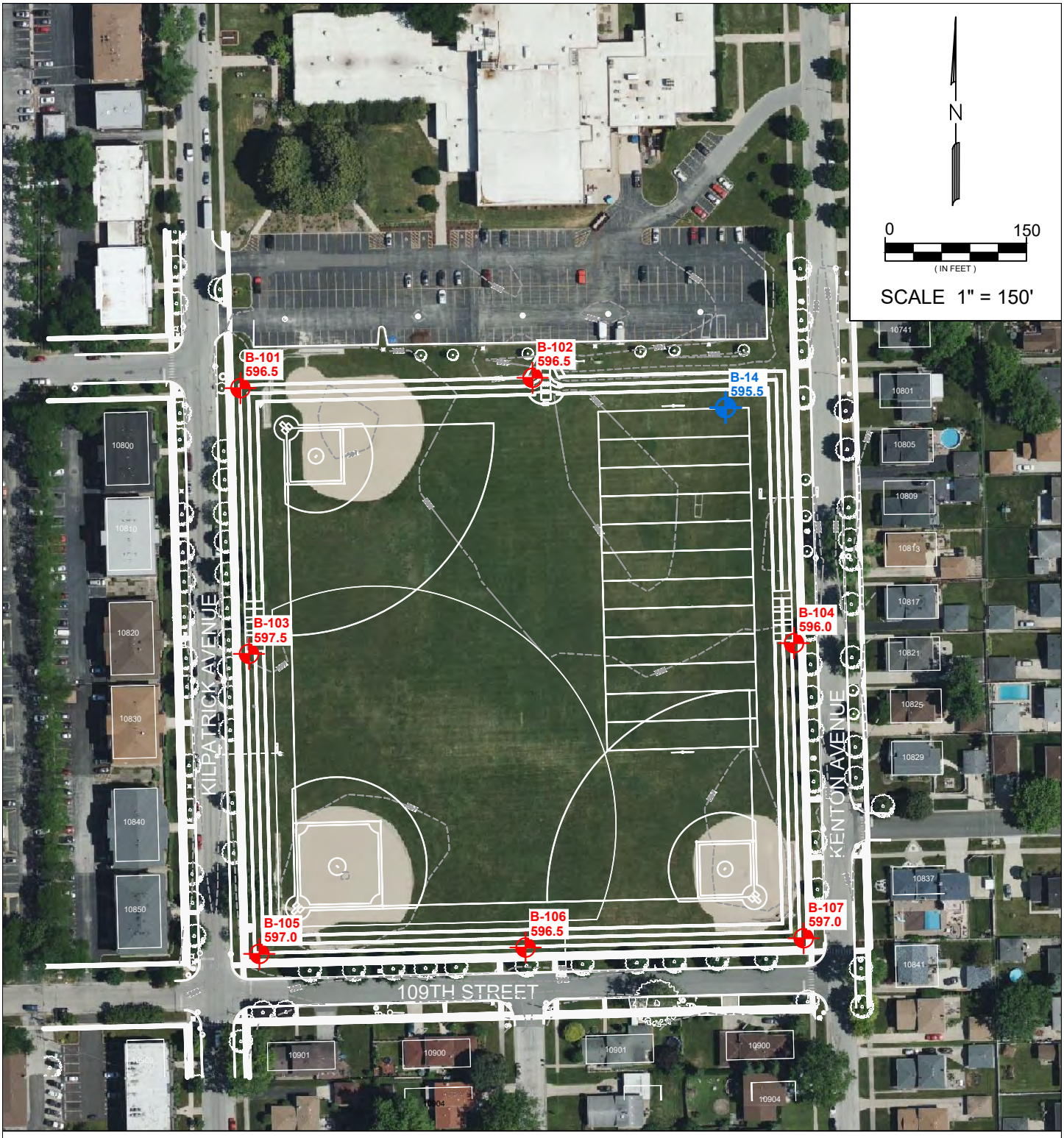
* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20 25

DRILL RIG NO. **390**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.



BORING LOCATION PLAN
PROPOSED TIERED RETAINING WALLS
NEC 109TH STREET AND KILPATRICK AVENUE
OAK LAWN, ILLINOIS

LEGEND

L-96,798 / FEB 2024

L-96,622 / DEC. 2023

NOTE:
GROUND SURFACE ELEVATIONS AT THE BORINGS WERE ACQUIRED BY TSC USING A TRIMBLE R12 GNSS RECEIVER, BEING ROUNDED TO THE NEAREST 0.5 FOOT.

TESTING SERVICE CORP.
457 EAST GUNDERSEN DRIVE
CAROL STREAM, ILLINOIS 60188

DRAWN BY:	MAB
CHECKED BY:	TRP
JOB NO. :	L-96,798
DATE:	02-27-24

PAGE NO.
1 OF 1

TESTING SERVICE CORPORATION

Corporate Office

360 South Main Place, Carol Stream, IL 60188-2404
630.462.2600

December 29, 2023

Mr. Lee Fell
Christopher B. Burke Engineering, Ltd.
9575 West Higgins Road, Suite 600
Rosemont, IL 60018-4920

RE: L – 96,623
Potentially Impacted Property Evaluation for LPC-663 Form
P.I.E. Detention and Stormwater Improvements
Kedvale Avenue, 105th Street, and Kilpatrick Avenue
Oak Lawn, IL

Dear Mr. Fell:

Testing Service Corporation (TSC) has completed a Potentially Impacted Property (PIP) Evaluation, soil sampling, and laboratory analyses for the above captioned project. The general scope of work was presented in TSC's proposal number 71,865 dated October 4, 2023. The General Conditions document which accompanied the proposal also applies to this report. TSC was requested to evaluate site soil conditions for the disposal of construction spoils at a Clean Construction & Demolition Debris (CCDD) or Uncontaminated Soil Fill Operation (USFO) facility.

Uncontaminated soil including uncontaminated soil mixed with clean construction or demolition debris (CCDD) accepted at a CCDD fill operation must be certified to be uncontaminated soil in accordance with Section 22.51(f)(2)(B) of the Environmental Protection Act [415 ILCS 5/22.51(f)(2)(B)]. Uncontaminated soil accepted at an uncontaminated soil fill operation (USFO) must be certified to be uncontaminated soil in accordance with Section 22.51a(d)(2)(B) of the Environmental Protection Act [415 ILCS 5/22.51a(d)(2)(B). These certifications must be made by a licensed professional engineer or geologist (PE/PG) using the Form LPC-663 when the soil is removed from a site which is determined by the PE/PG to be a "Potentially Impacted Property" (PIP) based on review of readily ascertainable property history, environmental databases and site reconnaissance. Uncontaminated soil from a site which is not identified as a PIP by the PE/PG may be certified by either the source site owner or operator using LPC-662 with pH analysis only.

Source Site

The source site ("Site") is portions of streets in a residential area of Oak Lawn, IL. The street portions are as follows, Kedvale Avenue from the community path south to 105th Street, 105th Street from Kedvale Avenue to Kilpatrick Avenue, and Kilpatrick Avenue from 105th Street to 110th Street. The activity that is generating the soil for disposal is construction of a detention system in the adjacent Polaris Park on the southeast and stormwater improvements along the streets.

Records Review

In accordance with Illinois Administrative Code 35 Part 1100, on behalf of the Site owner, TSC evaluated the historical uses of the Site to identify potential contamination sources, both from the Site and adjoining properties, which may cause the Site to be considered a PIP.

TSC researched the history of the property by reviewing historical topographic maps dating back to 1892 and aerial photographs dating back to 1938. Based on this information, the Site and surrounding area had been used for agricultural purposes since before that time. Kilpatrick Avenue was in place after 1951 with scattered residences along it and connecting previously existing ones. Residential subdivision construction in the area began in the northeast, east of Kolmar Avenue also at that time. After 1962, a church was constructed to the northeast, subdivision construction along the rest of the Site occurs, and Polaris Park on the southeast was constructed. Subdivision construction was completed along the Site after 1964, as were apartments along the southern portion of Kilpatrick Avenue. After 1983, additional apartments began construction along the west side of the northwest portion of Kilpatrick Avenue, completing after 1984. The Site and surrounding properties then remain as described to the present.

TSC evaluated current Federal and State environmental agency records for the Site and vicinity by obtaining information from an EDR First Report from Environmental Data Resources, Inc. (EDR). The EDR First Report identifies listings on reviewed environmental databases within one quarter mile of the Site address and is utilized in identifying potential contamination sources, both at the Site and from adjoining properties, which may cause the Site to be considered a PIP.

The EDR First Report information does not identify the Site itself on the reviewed environmental databases.

The EDR First Report information does not identify any adjoining nor nearby properties to the Site on the various reviewed environmental databases.

Lams Kerr McGee at 10511 South Kenneth Avenue was found to be a residence and not a property where commercial activity takes place.

All other properties that appeared in the EDR First Report were found by the Site reconnaissance and historical review to be outside a reasonably likely zone of influence to the Site.

The EDR First Report Orphan Summary did identify one property that was found by the Site reconnaissance and historical review to be outside a reasonably likely zone of influence to the Site.

Site Reconnaissance

On December 7th, 2023, TSC conducted a reconnaissance of the Site and adjoining properties for the purpose of identifying indications of the use or disposal of hazardous substances or petroleum products. The Site is portions of streets in a residential area consistent with information reviewed on topographic maps, aerial photographs, and the EDR environmental database report. No indications of staining, unnaturally stressed vegetation or areas conspicuously absent of vegetation were noted at the Site. No evidence of aboveground storage tanks or of vent or fill pipes suggesting the presence of

underground storage tanks were identified at the Site areas to be excavated. No indication of petroleum sheen was identified. No indications of solid waste or drum storage were noted at the Site. No suspect PCB containing equipment or hazardous waste generation was identified on Site. No evidence of the use or release of hazardous substances or petroleum products was identified at the Site in or affecting areas that are to be excavated. No additional sources of potential impact from the Site or adjacent properties were identified. The current status of the surrounding properties is also consistent with the information reviewed and none of the above conditions were noted at their locations within a zone of influence to the Site. No additional sources of potential impact from the Site or adjacent properties were identified.

Based on neither the Site nor any adjoining or nearby properties to the Site appearing on the environmental database search results, the Site was **not** identified as a Potentially Impacted Property. However, it was requested by the client to evaluate the Site for offsite soil disposal utilizing the LPC-663 form. The collection of soil samples and analysis were performed to evaluate the soil for common contaminants of concern.

Soil Sampling & Analytical Testing

On December 7, 8, and 10, TSC, in conjunction with a geotechnical investigation, performed fifteen soil borings (B-1 through B-15) along the Site street portions and in Polaris Park. The boring locations are indicated on the attached Boring Location Plan.

Soil at the Site beneath the pavement consists generally of silty clay with little sand and gravel, with some parts of some locations consisting of sand. The soil samples were screened using a Mini-RAE 3000 photo-ionization detector (PID), which did not detect any readings exceeding background conditions. No visual or odorous signs of impact were noted in the samples. Samples B-1/S-2, B-3/S-2, B-5/S-2, B-7/S-2, B-9/S-2, B-12/S-2, and B-14/S-2, from 3.5-5 feet below ground surface (bgs), were selected as being representative of the soil to be removed from the Site. The samples were placed in laboratory supplied jars and 5035 preserved vials. The samples were then transported to the analytical laboratory in a cooler on ice using standard chain of custody procedures. TSC's Professional Geologist, determined that analysis for Volatile Organic Compounds (VOCs), Polynuclear Aromatic hydrocarbons (PNAs), total RCRA metals, and pH, are appropriate indicator parameters of potential impact to the Site.

The analytical results are presented in the First Environmental Laboratories, Inc. analytical report dated December 21, 2023. The analytical report indicates that no VOCs or PNAs were detected in any of the samples at the laboratory reporting limits. Several of the total RCRA metals were detected in all of the samples, at typical background levels. The pH values of 8.84 for sample B-1/S-2, 8.65 for B-3/S-2, 8.54 for B-5/S-2, 8.42 for B-7/S-2, 8.98 for B-9/S-2, 8.38 for B-12/S-2, and 7.95 for B-14/S-2 are within the required range of 6.25-9.0 units.

The analytical results were compared to the Maximum Allowable Concentrations of Chemical Constituents (MACs) listed in 35 IAC 1100 Subpart F. The analytical results obtained from the soil samples tested indicate that all analyzed parameters meet their respective MACs for disposal at a CCDD/USFO facility.

The IEPA LPC-663 Form, Uncontaminated Soil Certification, signed by a Licensed Professional Geologist, along with the analytical report and chain of custody, has been completed for disposal of the soil from the source site, the described portions of Kedvale Avenue, 105th Street, and Kilpatrick Avenue in Oak Lawn, IL, as shown on last page of the attached EDR First Report.

TSC recommends the full report be forwarded to the CCDD/USFO facility selected for disposal. It is noted that the CCDD/USFO facility will make the determination on whether or not they will choose to accept the soil and may request additional analytical data. Additionally, the CCDD/USFO will screen each load of soil with a PID, which will determine the final acceptance of individual loads, regardless of the analytical results.

We appreciate the opportunity to be of service to you. Please contact us with any questions.

Respectfully,

TESTING SERVICE CORPORATION

For

Brian K. Walker, P.G. #196.000772
Environmental Department Manager

Prepared by:

Aaron J. Ulrey, P.G. #196.001390
Project Geologist

BKW:AJU:ljm

Enc: LPC-663 Form
Boring Location Plan
Analytical Report and Chain of Custody
EDR First Report

Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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 LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: P.I.E. Detention and Stormwater Improvements Office Phone Number, if available: 847-823-0500

Physical Site Location (address, including number and street):

Portions of Kedvale Avenue, 105th Street, and Kilpatrick Avenue, as described in report and on attached map

City: Oak Lawn State: IL Zip Code: 60453

County: Cook Township: Worth

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.69892 (Decimal Degrees) Longitude: - 87.73762 (-Decimal Degrees)

Identify how the lat/long data were determined:

○ GPS ○ Map Interpolation ○ Photo Interpolation ○ Survey ⊘ Other

EDR First Report

IEPA Site Number(s), if assigned: BOL: None BOW: None BOA: None

Approximate Start Date (mm/dd/yyyy): Approximate End Date (mm/dd/yyyy):

Estimated Volume of debris (cu. Yd.):

II. Owner/Operator Information for Source Site

Site Owner

Name:

Street Address:

PO Box:

City: State:

Zip Code: Phone:

Contact:

Email, if available:

Site Operator

Name:

Street Address:

PO Box:

City: State:

Zip Code: Phone:

Contact:

Email, if available:

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

L-96,623

Project Name: P.I.E. Detention and Stormwater Improvements Latitude: 41.69892 Longitude: - 87.73762

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

See attached report. Review of historical topo maps to 1892, aerials to 1938 indicate Site was agricultural since before that time. Subdivision beginning from northeast after 1951, completing after 1964. Park southeast after 1962. EDR did not identify Site, nor adjoining or nearby properties on environmental databases. 15 borings performed, screened with PID.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0,including the documentation of chain of custody control, a copy of the lab analysis; the 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 Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

Soil samples B-1/S-2, B-3/S-2, B-5/S-2, B-7/S-2, B-9/S-2, B-12/S-2, and B-14/S-2 representing site soil conditions, collected for analysis of VOCs, PNAs total RCRA metals, & pH. Lab report 23-10976 analytical results verify soil meets MACs. pH range of 7.95 to 8.98 between 6.25 and 9.0, therefore, soils in those locations uncontaminated.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Aaron J. Ulrey (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

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

Company Name: Testing Service Corporation

Street Address: 360 South Main Place

City: Carol Stream State: IL Zip Code: 60188

Phone: 630-784-4012

Aaron J. Ulrey
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

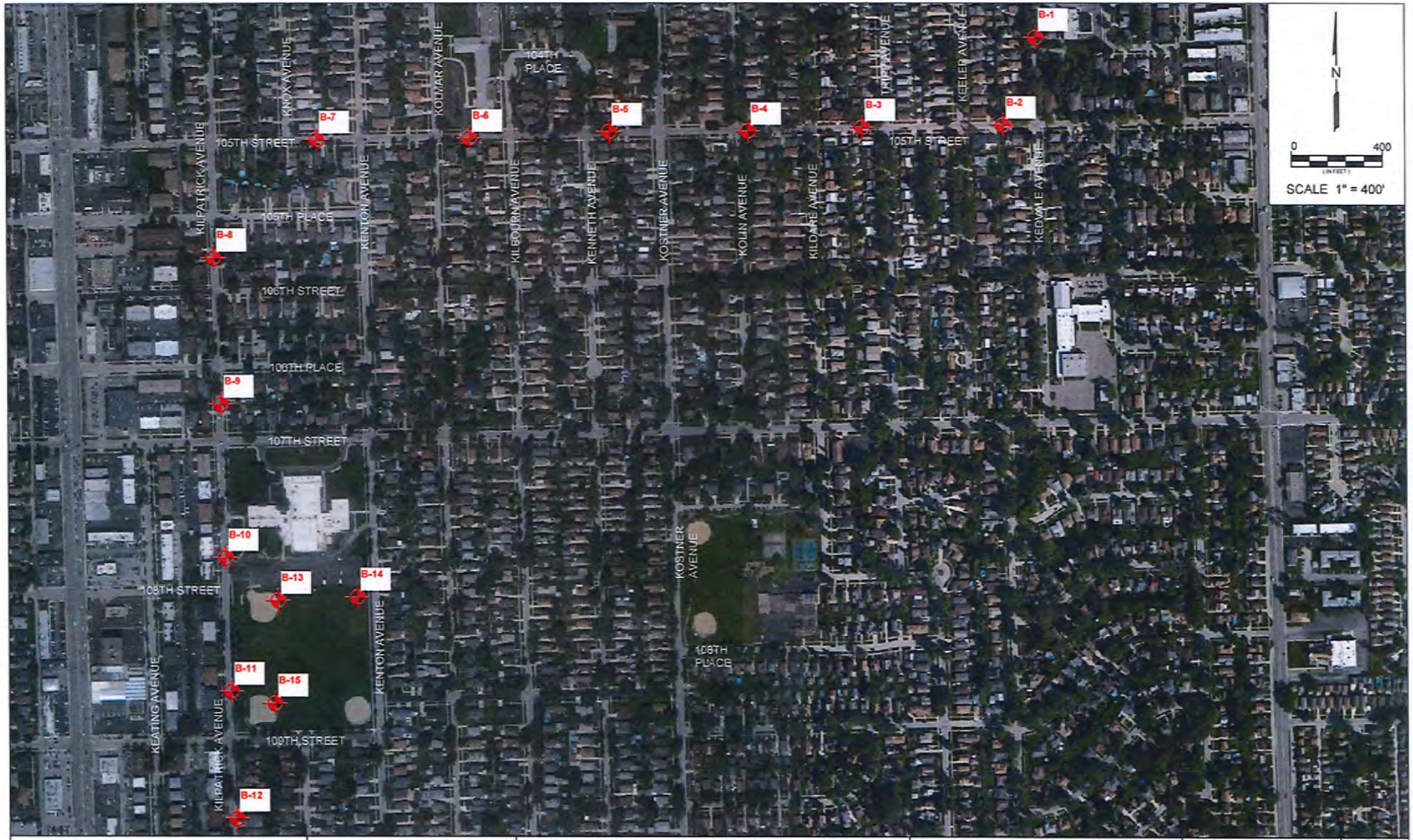
12-29-2023
Date:

AARON JON ULREY
196.001390
REGISTERED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

P.E or L.P.G. Seal:

Exp: 3-31-2025

L-96,623



NOTE: GROUND SURFACE ELEVATIONS AT THE BORINGS WERE ACQUIRED BY TSC USING A TRIMBLE R12 GNSS RECEIVER, BEING ROUNDED TO THE NEAREST 0.5 FOOT.

LEGEND

BORING LOCATION

BORING LOCATION PLAN
P.I.E. DETENTION AND STORMWATER IMPROVEMENTS
105TH STREET & KILPATRICK AVENUE
OAK LAWN, ILLINOIS

TESTING SERVICE CORPORATION
457 EAST GUNDERSEN DRIVE
CAROL STREAM, ILLINOIS 60188

DRAWN BY:	FFE
CHECKED BY:	RRK
JOB NO.:	L - 96,623
DATE:	12-26-23

PAGE NO.
1 OF 1

RELIABLE
Asphalt Corporation

4 June 2024

Aaron Ulrey
Testing Service Corporation
360 S. Main Pl.
Carol Stream, IL 60188
Phone: 630-784-4033
Via Email: aulrey@tsccorp.com

Re: Letter of Acceptance
P.I.E Detention Stormwater Improvements

Dear Mr. Ulrey:

Reliable Asphalt Corporation Thornton has reviewed the TSC LPC-663 and supporting documents for the project along Kedvale Ave., 105th St., and Kilpatrick Ave. in Oak Lawn, IL. Based on the project information provided in your LPC-663 certification, RAC Thornton agrees to accept the material at our facility located in Thornton, IL.

RAC Thornton is permitted by the IEPA to accept this material and our IEPA Permit number is CCDD2012-001-DE/OP. All loads entering the facility are inspected visually, with a photo ionization detector (PID) meter, and manifested from the source location. Our facilities comply with all local zoning codes and all applicable local, state and federal rules and regulations..

If you have any questions, please contact me at 708.447.1100 x289

Sincerely,

Andy Paxson
Reliable Asphalt Corporation
Environmental Assessments

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100 East Erie Street
Chicago, IL 60611

Metropolitan Water Reclamation District of Greater Chicago

Legislation Details (With Text)

File #:	25-0492 **Version:** 1		
Type:	Agenda Item	**Status:**	Adopted
File created:	6/16/2025	**In control:**	Stormwater Management Committee
On agenda:	6/26/2025	**Final action:**	6/26/2025
Title:	Authority to enter into an Intergovernmental Agreement with and make payment to the Village of Oak Lawn for the design, construction, operation, and maintenance of the Stormwater Storage at Community High School District 218 Administration Sports Field and Storm Sewer Improvements in Oak Lawn (23-IGA-11), in an amount not to exceed $6,500,000.00		
Sponsors:			
Indexes:			
Code sections:			
Attachments:	1. 23-IGA-11 Exhibit.pdf		

Date	Ver.	Action By	Action	Result
6/26/2025	1	Board of Commissioners	Approved	Pass

TRANSMITTAL LETTER FOR BOARD MEETING OF JUNE 26, 2025

COMMITTEE ON STORMWATER MANAGEMENT

Mr. John P. Murray, Acting Executive Director

Authority to enter into an Intergovernmental Agreement with and make payment to the Village of Oak Lawn for the design, construction, operation, and maintenance of the Stormwater Storage at Community High School District 218 Administration Sports Field and Storm Sewer Improvements in Oak Lawn (23-IGA-11), in an amount not to exceed $6,500,000.00

Dear Sir:

Authorization is requested to enter into an Intergovernmental Agreement (IGA) with and make payment to the Village of Oak Lawn (Village) for the design, construction, operation, and maintenance of the Stormwater Storage at Community High School District 218 Administration Sports Field and Storm Sewer Improvements in Oak Lawn (23-IGA-11), in an amount not to exceed $6,500,000.00.

On April 6, 2023, the Board of Commissioners granted its approval to the District to negotiate an IGA with the Village for the design, construction, operation and maintenance of the Stormwater Storage at Community High School District 218 Administration Sports Field and Storm Sewer Improvements in Oak Lawn. Under this project, the Village proposes to construct a new stormwater storage facility and new storm sewers, as depicted in the attached exhibit. The project is expected to mitigate flooding in the project area, benefiting approximately 100 structures and reducing flood impacts on local roadways.

The terms of the IGA will include payment by the District towards construction costs in an amount not to exceed $6,500,000.00. The total project cost, including post-award engineering, is estimated at $14,000,000.00. Partial payments to the Village to be set forth in the IGA, will be made at predefined intervals during construction, which is anticipated to commence later in 2025, and be completed in early 2027. The Village has contributed to engineering and other design-related costs of the project, and will assume

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responsibility for construction, operation, and maintenance of the project. The Village will also be solely responsible for any change orders. The IGA will contain provisions that allow the District to review the project's design and perform inspections after construction. The IGA will also require the Village to advertise and award the construction contracts in conformance with the District's Purchasing Act, Multi-Project Labor Agreement, and Affirmative Action Requirements.

The Affirmative Action goals to be applied will conform with the current requirements of the District's Appendix D upon execution of this IGA. After construction, the Affirmative Action utilization on this project will be provided in an annual report summarizing goal attainment on stormwater partnerships.

Based on the foregoing, it is requested that the Board of Commissioners grant authority for the District to negotiate and enter into an IGA with and make payment to the Village in an amount not to exceed $6,500,000.00. It is further requested that the Chairman of the Committee on Finance, Acting Executive Director and Clerk be authorized to execute said agreement on behalf of the District, as well as any documents necessary to effectuate the transaction and conveyance, upon approval by the Director of Engineering as to technical matters and by the General Counsel as to form and legality.

Funds for this project are subject to appropriation in 2025 in Account 501-50000-612400. Funds in the amount of $6,500,000.00 are anticipated to be spent over an 18-month period, in accordance with the agreement after it is executed. Funds requested in future years are contingent on the Board of Commissioners' approval of the District's budget for those years.

Requested, Catherine A. O'Connor, Director of Engineering, KMF:JK
Recommended, John P. Murray, Acting Executive Director
Disposition of this agenda item will be documented in the official Regular Board Meeting Minutes of the Board of Commissioners for June 26, 2025

Attachment

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THE VILLAGE OF OAK LAWN
COOK COUNTY, ILLINOIS

RESOLUTION
NO. 25-11-50

A RESOLUTION APPROVING AND AUTHORIZING EXECUTION OF AN INTERGOVERNMENTAL AGREEMENT BY AND BETWEEN THE VILLAGE OF OAK LAWN AND THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO FOR THE DESIGN, CONSTRUCTION, OPERATION, AND MAINTENANCE OF STORMWATER STORAGE AT COMMUNITY HIGH SCHOOL DISTRICT 218 ADMINISTRATION SPORTS FIELD AND STORM SEWER IMPROVEMENTS (POLARIS PARK PROJECT), OAK LAWN, ILLINOIS

TERRY VORDERER, President
CLAIRE HENNING, Village Clerk

TIM DESMOND
ALEX G. OLEJNICZAK
PAUL MALLO
JAMIE PEMBROKE
WILLIAM R. STALKER
RALPH SOCH
Board of Trustees

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VILLAGE OF OAK LAWN
COOK COUNTY, ILLINOIS

RESOLUTION NO. 25-11-50

A RESOLUTION APPROVING AND AUTHORIZING EXECUTION OF AN INTERGOVERNMENTAL AGREEMENT BY AND BETWEEN THE VILLAGE OF OAK LAWN AND THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO FOR THE DESIGN, CONSTRUCTION, OPERATION, AND MAINTENANCE OF STORMWATER STORAGE AT COMMUNITY HIGH SCHOOL DISTRICT 218 ADMINISTRATION SPORTS FIELD AND STORM SEWER IMPROVEMENTS (POLARIS PARK PROJECT) OAK LAWN, ILLINOIS

WHEREAS, the Village of Oak Lawn (the "Village") is a home rule municipality, having all of the powers and authority granted to such municipalities pursuant to Article VII, Section 6 of the Illinois Constitution of 1970, including the right to exercise any power and perform any function pertaining to its government and affairs; and

WHEREAS, Article VII, Section 10 of the Illinois Constitution of 1970 provides that units of local government may contract or otherwise associate among themselves to obtain or share services; and

WHEREAS, the Intergovernmental Cooperation Act, 5 ILCS 220/1 *et seq.*, authorizes units of local government in Illinois to exercise jointly with any other unit of local government any power or powers, privileges, functions or authority which may be exercised by a public agency, individually, and to enter into contracts for the performance of governmental services, activities, and undertakings; and

WHEREAS, the Village proposes to design, construct, operate and maintain (i) a stormwater detention facility at the Community High School District 218 sports field (commonly known as Polaris Park) at 10701 Kilpatrick Avenue, and (ii) storm sewer improvements along Kilpatrick Avenue between 105th Street and 109th Street, along 105th Street between Kedvale Avenue and Kilpatrick Avenue, and along 108th Street between Kilpatrick Avenue and Kenton Avenue, all for the public benefit of reducing flooding in the area (collectively, the "Project"); and

WHEREAS, pursuant to the Intergovernmental Cooperation Act, 5 ILCS 220/1 et seq., the Village and the Metropolitan Water Reclamation District of Greater Chicago ("MWRDGC") have negotiated an Intergovernmental Agreement (the "Agreement") under which the MWRDGC will reimburse the Village for fifty percent (50%) of the total construction cost of the Project, in an amount not to exceed Six Million Five Hundred Thousand Dollars ($6,500,000.00) (the "Maximum Reimbursement Amount"); and

WHEREAS, a full and complete copy of the Agreement has been on file with the Village Clerk for public inspection and was presented to, and is before, the Village President and Board of Trustees at this meeting; and

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WHEREAS, the Village is authorized to enter into the Agreement pursuant to the authority cited above, and the President and Board of Trustees find that approving and authorizing execution of the Agreement and acceptance of the Maximum Reimbursement Amount is in the best interests of the Village and its residents.

NOW, THEREFORE, BE IT RESOLVED BY THE VILLAGE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF OAK LAWN, COOK COUNTY, ILLINOIS, AS FOLLOWS:

SECTION ONE: Recitals Incorporated. Each of the recitals in the Whereas paragraphs set forth above is incorporated into Section 1 of this Resolution as if fully set forth herein.

SECTION TWO: Approval of Intergovernmental Agreement. The President and Board of Trustees of the Village hereby approve the Agreement, in substantially the form in **EXHIBIT A**, with such changes thereto as are approved by the Village Manager. The President and Board of Trustees of the Village hereby authorize and direct the Village President, Village Clerk and/or the Village Manager, or their designees, to execute the Agreement, and to further execute and deliver all instruments and documents that are necessary to effectuate such Agreement and to fulfill the Village's obligations under the Agreement as approved.

SECTION THREE: Acceptance of Reimbursement. The Village hereby accepts the MWRDGC's commitment to reimburse the Village for fifty percent (50%) of the total construction cost of the Project, not to exceed the Maximum Reimbursement Amount of $6,500,000.00, all as provided in the Agreement attached hereto as **EXHIBIT A**.

SECTION FOUR: Effective Date. This Resolution shall be in full force and effect from and after its adoption and approval as provided by law.

ADOPTED this 24th day of June, 2025, pursuant to a roll call vote as follows:

AYES: Trustees Olejniczak, Mallo, Stalker, Soch and Pembroke

NAYS: _____

ABSENT: Trustee Desmond

APPROVED by me this 24th day of June, 2025, and attested by the Village Clerk on the same day.

Village President

ATTEST:

Village Clerk

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EXHIBIT A

INTERGOVERNMENTAL AGREEMENT BETWEEN THE VILLAGE OF OAK LAWN AND THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

(attached)

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STATE OF ILLINOIS)
) SS
COUNTY OF COOK)

CLERK'S CERTIFICATE

I, Claire Henning, Village Clerk of the Village of Oak Lawn, in the County of Cook and State of Illinois, certify that the attached document is a true and correct copy of that certain Resolution now on file in my Office, entitled:

RESOLUTION NO. 25-11-50

A RESOLUTION APPROVING AND AUTHORIZING EXECUTION OF AN INTERGOVERNMENTAL AGREEMENT BY AND BETWEEN THE VILLAGE OF OAK LAWN AND THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO FOR THE DESIGN, CONSTRUCTION, OPERATION, AND MAINTENANCE OF STORMWATER STORAGE AT COMMUNITY HIGH SCHOOL DISTRICT 218 ADMINISTRATION SPORTS FIELD AND STORM SEWER IMPROVEMENTS (POLARIS PARK PROJECT) OAK LAWN, ILLINOIS

which Resolution was passed by the Board of Trustees of the Village of Oak Lawn at a Regular Village Board Meeting on the 24th day of June, 2025, at which meeting a quorum was present, and approved by the President of the Village of Oak Lawn on the 24th day of June, 2025.

I further certify that the vote on the question of the passage of said Resolution by the Board of Trustees of the Village of Oak Lawn was taken by Ayes and Nays and recorded in the minutes of the Board of Trustees of the Village of Oak Lawn, and that the result of said vote was as follows, to-wit:

AYES: Trustees Olejniczak, Mallo, Stalker, Soch and Pembroke

NAYS: _____

ABSENT: Trustee Desmond

I do further certify that the original Resolution, of which the foregoing is a true copy, is entrusted to my care for safekeeping, and that I am the lawful keeper of the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Village of Oak Lawn, this 24th day of June, 2025.

Claire Henning, Village Clerk

[SEAL]

VILLAGE OF OAK LAWN CORPORATE SEAL COOK COUNTY, ILLINOIS

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INTERGOVERNMENTAL AGREEMENT BY AND BETWEEN THE VILLAGE OF OAK LAWN AND THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO FOR THE DESIGN, CONSTRUCTION, OPERATION, AND MAINTENANCE OF THE STORMWATER STORAGE AT COMMUNITY HIGH SCHOOL DISTRICT 218 ADMINISTRATION SPORTS FIELD AND STORM SEWER IMPROVEMENTS IN OAK LAWN, ILLINOIS

THIS INTERGOVERNMENTAL AGREEMENT ("Agreement") is entered into by and between the Metropolitan Water Reclamation District of Greater Chicago ("MWRDGC"), a unit of local government and corporate and body politic organized and existing under the laws of the State of Illinois, and the Village of Oak Lawn ("Village"), a municipal corporation and home rule unit of local government organized and existing under Article VII, Section 6 of the 1970 Constitution of the State of Illinois. Together, the MWRDGC and the Village may be referred to as the "Parties" and each individually as a "Party".

WITNESSETH:

WHEREAS, on November 17, 2004, Public Act 093-1049 amended the Metropolitan Water Reclamation District Act ("Act") in various ways; and

WHEREAS, the Act, as amended, declares that stormwater management in Cook County, Illinois is under the general supervision of the MWRDGC; and

WHEREAS, Public Act 098-0652 amended the Act again on June 18, 2014 by specifically authorizing the MWRDGC to plan, implement, and finance activities relating to local stormwater management projects in Cook County, Illinois; and

WHEREAS, the Village is located within the boundaries of Cook County, Illinois; and

WHEREAS, pursuant to Article 11, Section 110-1 of the Illinois Municipal Code, 65 ILCS 5/11-110-1, the Village is empowered to construct and maintain drains, storm sewers, detention basins, retention basins and other green infrastructure facilities; and

WHEREAS, the Village proposes constructing stormwater infrastructure and improvements in the following locations in Oak Lawn, Illinois, for the public benefit of reducing flooding in the general area ("Public Benefit"): the Community High School District 218

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Administration Sports Field (commonly known as Polaris Park), 10701 Kilpatrick Ave, Oak Lawn, Illinois and along Kilpatrick Avenue between 105th Street and 109th Street, along 105th Street between Kedvale Ave and Kilpatrick Ave, and along 108th Street between Kilpatrick Ave and Kenton Ave; and

WHEREAS, the Village intends to design, construct, operate, maintain, and own the proposed stormwater infrastructure; and

WHEREAS, the Village's plans to construct the proposed stormwater infrastructure may be accomplished more effectively, economically, and comprehensively with the Village and the MWRDGC cooperating and using their joint efforts and resources; and

WHEREAS, the Intergovernmental Cooperation Act, 5 ILCS 220/1 *et seq*., and Section 10 of Article VII of the Illinois Constitution, allow and encourage intergovernmental cooperation; and

WHEREAS, on June 26, 2025, the MWRDGC's Board of Commissioners authorized the execution of an intergovernmental agreement with the Village; and

WHEREAS, on June 24, 2025, the President and Board of Trustees of the Village authorized the execution of an intergovernmental agreement with the MWRDGC; and

NOW THEREFORE, in consideration of the mutual covenants and agreements contained in this Agreement and for other good and valuable consideration, the MWRDGC and the Village agree as follows:

Article 1. Incorporation of Recitals

The above recitals are incorporated by reference and made a part of this Agreement.

Article 2. Scope of Work

1. The work contemplated by this Agreement will include the design, construction, operation, and maintenance of a stormwater detention facility at the Community High School District 218 sports field and storm sewer improvements. The detention facility will be located at 10701 Kilpatrick Ave, Oak Lawn, Illinois and the storm sewer improvements will be located along Kilpatrick Avenue between 105th Street and 109th Street, along 105th Street between Kedvale

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Ave and Kilpatrick Ave, and along 108th Street between Kilpatrick Ave and Kenton Ave ("Project"). These improvements are categorized by the MWRDGC as "local stormwater infrastructure."

2. The Village, at its sole cost and expense, will prepare construction drawings, specifications, and details ("Construction Documents") for the Project.
3. The Project will realize the Public Benefit of helping to alleviate flooding within and around the Project area, as shown in Exhibit 1.
4. Upon execution of this Agreement and until commencement of Project construction, the Village will provide monthly updates to the MWRDGC on (1) the status and progress of Project design and (2) the schedule for Bid Advertisement and Award for the Project.
5. The Village will provide the MWRDGC with a copy of thirty percent (30%), sixty percent (60%), and ninety-eight percent (98%) complete Construction Documents for the MWRDGC's approval as to the Public Benefit. The MWRDGC will review and provide written comments to the Village within thirty (30) calendar days of receipt. The Village will incorporate the MWRDGC's review comments into the Construction Documents.
6. Upon award of any Project-related construction contracts, the Village will provide monthly updates to the MWRDGC as to (1) construction progress and (2) anticipated timeframes for submission of reimbursement requests, with the final request being submitted no later than sixty (60) calendar days after final completion of the Project construction. Also, upon award, the Village will provide the following to the MWRDGC: (1) a copy of its bid advertisement, including all newspaper, on-line, or any other media utilized by the Village; (2) a summary or tabulation of bids received; (3) a breakdown of unit costs; and (4) a copy of the Village's approval, resolution, or equivalent awarding the contract.
7. After construction, the Village will provide the MWRDGC with a copy of as-built drawings and related Project documentation, including any addenda, change orders, stormwater-related shop drawings, and field changes.
8. The MWRDGC retains the discretion to adjust the amount of its reimbursement commitment if, based on the MWRDGC's review of the final Construction Documents—including any addenda, change orders, shop drawings, or field changes—it determines that the Project will not provide the intended Public Benefit.

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9. Although the MWRDGC will reimburse the Village for a portion of the Project, the Village bears sole responsibility for the overall cost, expense, and payment for the Project, which the Village will construct in accordance with the final Construction Documents.
10. To the extent practicable, the Village, its agents, contractors, or employees may elect to use the MWRDGC's biosolids in any amendments performed to the soil of the Project area, including but not limited to landscaping. Subject to availability, the MWRDGC will provide biosolids free of charge. The Village may be required to arrange and pay for the transportation necessary to deliver the biosolids to the Project area.
11. The Village will publicly advertise the Project and publicly award all Project-related construction contracts to the lowest responsible bidder as determined by the Village. The Village will consider and act in general accord with the applicable standards of the MWRDGC's Purchasing Act, 70 ILCS 2605/11.1-11.24 (attached to this Agreement as Exhibit 2), when advertising and awarding the construction contracts. The Village will also require a payment bond and performance bond for all Project-related construction contracts in general accord with the applicable standards of Exhibit 2. The Village may impose more stringent requirements than those contained in Exhibit 2 when awarding Project-related construction contracts, but in no event will the Village's requirements fall below the MWRDGC's applicable general standards. Although the Village need not include the attached Exhibit 2 as part of its bid documents, the Village is responsible for ensuring that these applicable minimum requirements are met.
12. The Village agrees that the Project is a "Covered Project" as defined in the MWRDGC's Multi-Project Labor Agreement for Cook County ("MPLA") (attached to this Agreement as Exhibit 3). As such, the Village agrees to be obligated as the MWRDGC would be in the MPLA and will ensure that the standards and requirements for "Covered Projects" will be met for the Project, as applicable. The Village may impose more stringent requirements than those contained in the MPLA when awarding Project-related construction contracts, but in no event will the Village's requirements fall below the standards for "Covered Projects" detailed in it. Although Exhibit 3 need not be included as part of the Project's bid documents, the Village is responsible for ensuring that its applicable minimum requirements are met.
13. The Village must comply with the applicable portions of the MWRDGC's Affirmative Action Ordinance and Diversity Policies. Revised Appendix D governs Affirmative Action goal

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requirements for subcontracting with Minority and Women Owned Business Enterprises (attached to this Agreement as Exhibit 4). Appendix V governs the diversity policy requirements for subcontracting with Veteran-owned Business Enterprises (attached to this Agreement as Exhibit 5.) Collectively these goals are referred to as "participation goals."

14. The Village **must** meet the following participation goals applicable to the Project before construction is completed:
    a. Twenty percent (20%) of the total amount of reimbursement provided by the MWRDGC for the Project must be applied to work performed by Minority-owned Business Enterprises ("MBE"); and
    b. Ten percent (10%) of the total amount of reimbursement provided by the MWRDGC for the Project must be applied to work performed by Women-owned Business Enterprises ("WBE").
15. The Village **should** meet the following participation goal applicable to the Project before construction is completed: three percent (3%) of the total amount of reimbursement provided by the MWRDGC for the Project should be applied to work performed by Veteran-owned Business Enterprises ("VBE").
16. The determination as to whether the Village has complied with the requirements of this Agreement by attaining the MWRDGC's participation goals is solely in the MWRDGC's discretion. If the Village fails to attain each goal as determined by the MWRDGC, the MWRDGC may withhold payments to the Village up to or equal to the dollar amount by which the Village failed to attain the participation goal(s).
17. The Village will provide the MWRDGC access to inspect, with reasonable notice, any records or documentation related to the Village's compliance with the MWRDGC's participation goals and requirements.
18. To evidence compliance with the MWRDGC's participation goals, the Village must submit the following items to the MWRDGC's Diversity Administrator prior to the start of construction: (1) a completed Utilization Plan for MBE/WBE participation, attached to this Agreement as Exhibit 6 and a completed VBE Commitment Form, attached to this Agreement as Exhibit 7 and (2) a current letter from a certifying agency that verifies as appropriate the MBE/WBE/VBE status of each vendor listed as a subcontractor on the MBE/WBE Utilization Plan and VBE Commitment Form. A certification letter will be deemed current so long as its

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expiration date is after the date of the Utilization Plan or Commitment Form. Failure to timely submit a Utilization Plan, Commitment Form, or certifying letter may result in a payment delay or denial.

19. Together with each and every reimbursement request, the Village must submit to the MWRDGC the following: (1) a MBE/WBE and VBE Status Report ("Status Report"), attached to this Agreement as Exhibit 8; (2) full or partial lien waivers from the participating MBE/WBE/VBE vendors, as applicable; and (3) proof of payment to the participating MBE/WBE/VBE vendors (e.g., canceled checks), as applicable. Failure to submit a Status Report and any supporting documentation may result in a payment delay or denial.
20. The Village will comply with the Prevailing Wage Act, 820 ILCS 130/0.01 *et seq*. Current prevailing wage rates for Cook County are determined by the Illinois Department of Labor and are available on the Illinois Department of Labor's official website. It is the responsibility of the Village to obtain and comply with any revisions to the rates should they change during the construction phase of this Agreement.
21. The Village, at its sole cost and expense, will provide (1) the final design of the Project; (2) land acquisition and remediation, if any; and (3) construction oversight and administrative support for the Project.
22. The Village will submit an Operation and Maintenance Plan ("O&M Plan") for the MWRDGC's review. The O&M Plan will be included as part of this Agreement as Exhibit 9. At its sole cost and expense, the Village will operate and maintain the Project in accordance with the O&M Plan.
23. The MWRDGC will reimburse the Village for fifty percent (50%) of the total construction cost of the Project, but in no event will that amount exceed six million five hundred thousand and 00/100 Dollars ($6,500,000.00) ("Maximum Reimbursement Amount"). For purposes of this Agreement, "construction" will mean all work necessary to build the Project as depicted in the Construction Documents. The Village will be responsible for securing funding or contributing its own funds for all costs necessary to construct the Project in accordance with the Construction Documents. The Village will be solely responsible for change orders, overruns, or any other increases in the cost of the Project. All funding provided by the MWRDGC will be exclusively to reimburse the Village for construction of the Project.
24. The MWRDGC will disburse funds to the Village in accordance with the following schedule:

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a. Twenty-five percent (25%) of the Maximum Reimbursement Amount at receipt of a reimbursement request for twenty-five percent (25%) completion of construction;
b. Twenty-five percent (25%) of the Maximum Reimbursement Amount at receipt of a reimbursement request for fifty percent (50%) completion of construction;
c. Twenty-five percent (25%) of the Maximum Reimbursement Amount at receipt of a reimbursement request for seventy-five percent (75%) completion of construction; and
d. Subject to the Maximum Reimbursement Amount, the remaining amount necessary to cover the MWRDGC's share of the total construction cost as detailed in Article 2, Paragraph 23 will be paid upon receipt of invoices for final completion and after final inspection by the MWRDGC.

The Village must submit invoices for the representative percentage of construction within thirty (30) calendar days of meeting its respective completion percentage, through seventy-five percent (75%) completion, and within sixty (60) calendar days of final completion for the final reimbursement cost. The MWRDGC will only pay invoices submitted in strict accordance with the foregoing schedule. The MWRDGC may opt to not pay any late reimbursement request or invoices.

25. The MWRDGC's Maximum Reimbursement Amount under this Agreement is based on the funding amount that the MWRDGC's Board of Commissioners approved and appropriated for the calendar year in which the Agreement is executed. The Parties acknowledge that this is a multi-year Project and that any additional funding sought from the MWRDGC beyond that which was approved and appropriated for the initial calendar year is subject to the approval of the MWRDGC's Board of Commissioners.
26. The Village is responsible for all other Project costs including engineering, property acquisition, other design-related costs, construction inspection, and the remainder of the construction cost that is not reimbursed by the MWRDGC.
27. As a condition for reimbursement, the Village must submit copies of construction invoices to the MWRDGC for review along with the respective reimbursement requests.

Article 3. Permits and Fees

1. Federal, State, and County Requirements. The Village will obtain all federal, state, county, and local permits required by law for the construction of the Project and will assume any costs in procuring said permits. Additionally, the Village will obtain all consents and approvals

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required by federal, state, and county regulations for the construction of the Project and will assume any costs incurred in procuring all such consents and approvals.

2. Operation and Maintenance. The Village will obtain any and all permits necessary for the performance of any operations or maintenance work associated with the improvements to be constructed by the Village in connection with the Project, and in accordance with Article 5 of this Agreement.

Article 4. Property Interests

1. If the Project site is located entirely within a right of way, perpetual easement, or on other property represented to be owned solely by and within the Village, prior to execution of this Agreement, the Village must have an enforceable property interest in the Project site and provide proof of that interest to the MWRDGC. If the Project site is situated entirely in a right of way, perpetual easement, or on other property owned solely by and within the Village, and no proof of dedication, perpetual easement, or ownership is available, the Village may request and submit the form affidavit from the MWRDGC, which must be executed by an authorized officer of the Village. Acceptance of the affidavit is at the MWRDGC's discretion. Exhibit 10 appended to this Agreement contains the executed affidavit or, in the alternative, all relevant documentary evidence of dedication, perpetual easement, or ownership. Exhibit 11 attached to this Agreement contains a copy of a plat of stormwater utility and drainage easement that has been approved by the Village and Community High School District 218 and has been executed and recorded with the Cook County Clerk's Office.
2. For all surrounding property impacting or being impacted by the Project, prior to starting construction of the Project, the Village will acquire any temporary or permanent easements, license agreements, or fee simple title necessary for access to the Project site, as well as construction and maintenance of the Project. Any property interests acquired by the Village must be consistent with the MWRDGC's right to access the Project to conduct an inspection or perform maintenance as set out in Article 5 of this Agreement.
3. Should acquisition of property interests via condemnation be necessary, the Village will incur all associated costs, including purchase price and easement fees, as well as any attorney's fees. When necessary, the Village will be required to provide relocation assistance consistent with the obligations of all applicable state and federal law.

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4. If it is determined during the construction phase of the Project, as performed by the Village, that hazardous substances are located in, on, or under the Project site, the Village must notify the MWRDGC in writing within fourteen (14) calendar days of this information becoming available. Following notification, the Village and the MWRDGC will meet to determine if it is appropriate for the Project to proceed. If the MWRDGC decides to proceed with the Project, the Village will be responsible for all Project site remediation which must be performed consistent with all applicable state and federal law. If the Village is unwilling or incapable of remediating the Project site, and no alternative plan is feasible, this Agreement will be terminated by the MWRDC.
5. The MWRDGC acknowledges the recording of the Plat of Easement attached as Exhibit 11. The Village will record any additional easements, licenses, or deeds acquired for the Project.
6. The Village will own all the improvements constructed for the Project. Nothing in this Agreement creates an ownership or property interest for the MWRDGC in any part of the Project.
7. The Village may not lease, sell, or transfer the Project site or property owned by the Village that is necessary for construction, maintenance, and access to the Project site, in whole or part, to a third-party during the term of the Agreement without the MWRDGC's prior written approval. The Village must provide the MWRDGC with at least sixty (60) calendar days' written notice of the date on which it intends to execute a lease, sell, or transfer the property. Failure to comply with this Paragraph of the Agreement during the construction phase of the Project may result in termination by the MWRDGC pursuant to Article 8 of this Agreement and may require the Village to return all or a portion of the funds received from the MWRDGC, at the MWRDGC's sole discretion. Alternatively, failure to comply with this Paragraph during the maintenance phase of the Project may result in the MWRDGC seeking full or partial repayment of funds provided to the Village from the MWRDGC for the Project, at the MWRDGC's sole discretion.

Article 5. Maintenance

1. The Village, at its sole cost and expense, will maintain the Project in accordance with the O&M Plan, as shown in Exhibit 9, for at least fifty (50) years and must ensure that the Project perpetually provides the intended Public Benefit or that the Village replaces the Project after fifty (50) years with improvements that provide equal or greater stormwater benefit to the

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public. In the event that the Village and MWRDGC mutually agree in the future that the Project requires replacement prior to fifty (50) years, the Village and MWRDGC shall negotiate in good faith on mutually acceptable terms of replacement. Nothing in this section constitutes a waiver or modification of the parties' respective rights and obligations under this Agreement.

2. The Village must conduct annual inspections to ensure adequate maintenance of the Project in accordance with the O&M Plan. The Village will prepare a report detailing its annual inspection, observations, and conclusions including whether the Project is operating as designed, functioning, and providing the intended Public Benefit. The annual inspection report must either be stamped by a Professional Engineer licensed by the State of Illinois or signed by the head of the department responsible for maintenance duties. The stamped or signed annual inspection report will be provided to the MWRDGC within thirty (30) calendar days of completion.
3. The MWRDGC will have the right (including any necessary right of access) to conduct its own annual inspection of the constructed Project upon reasonable notice to the Village.
4. In the event of failure of the Village to maintain the Project as described above to the reasonable satisfaction of the MWRDGC, the MWRDGC may issue written notice by certified, registered, or electronic mail to the Village directing the Village to perform such maintenance. If maintenance has not been accomplished on or before thirty (30) calendar days after such notice, the MWRDGC may cause such maintenance to be performed and the Village will pay the MWRDGC the entire cost that the MWRDGC incurred to perform the required maintenance.
5. In addition to Paragraph 4 of this Article, if the MWRDGC determines that the Village has failed to maintain the Project's improvements to provide the intended Public Benefit, the MWRDGC may require the Village to repay some or all the funding that the MWRDGC provided under this Agreement. The amount of repayment is at the sole discretion of the MWRDGC. However, this paragraph shall not apply if, after fifty (50) years, the Village replaces the Project with improvements that are deemed by the MWRDGC in its reasonable discretion to have equal or greater Public Benefit.
6. In performing its obligations under this Article, the Village will comply with all access restrictions and notice requirements set forth in the easements, licenses, or deeds recorded pursuant to Article 4 of this Agreement.

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Article 6. Notification

1. Bid Advertisement. The Village will provide the MWRDGC with thirty (30) calendar days' notice prior to Bid Advertisement for the Project.
2. Construction. The Village will provide the MWRDGC with a construction schedule and a minimum of seventy-two (72) hours' notice before the following project milestones:
    - Start of work
    - Substantial completion
    - Completion of work

Article 7. Notification to Residents (Public Outreach)

The Village shall notify the MWRDGC of its intent to hold any ceremonies, public outreach, or educational events related to the Project (e.g. groundbreakings, ribbon cuttings, open houses, community fairs, etc.) at least two (2) weeks prior to the planned event date. The MWRDGC may provide materials or equipment to be used to assist the Village in disseminating Project-related information at these events.

Article 8. Termination

1. Prior to commencement of construction of the Project, the Village may, at its option, and upon giving notice to the MWRDGC in the manner provided in Article 25 of this Agreement, terminate this Agreement as it pertains to the entire Project. The Village will return all Project-related funds received from the MWRDGC no later than fourteen (14) calendar days following its termination of the Agreement.
2. Prior to Bid Advertisement of the Project, the MWRDGC may, at its option, and upon giving notice to the Village in the manner provided in Article 25 of this Agreement, terminate this Agreement as it pertains to the entire Project. The MWRDGC may also terminate this Agreement if: (a) the Village does not award construction of the Project within one (1) year from the date of execution of the Agreement or (b) the Project is not completed in accordance with the Construction Documents within two (2) years of the Village's initial award of a construction contract related to the Project. If the MWRDGC elects to terminate this Agreement based on expiration of the two (2) year completion period, then the Village must return all funds provided by the MWRDGC within fourteen (14) calendar days of termination. In its sole discretion, the MWRDGC may approve an extension prior to the expiration of the

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one (1) year award period or two (2) years completion period for delays outside the Village's control and where the Village made good faith efforts to advance the Project.

3. If, pursuant to Article 4 of this Agreement, the Village is unwilling or incapable of remediating the Project site, and no alternative plan is feasible, this Agreement will be terminated by the MWRDGC. The MWRDGC will provide thirty (30) calendar days written notice to the Village of intent to terminate. Any funds received by the Village from the MWRDGC must be returned within thirty (30) calendar days of such termination.
4. If during the term of this Agreement, either Party fails to comply with any of the provisions contained in this Agreement, the other Party may seek to terminate this Agreement upon thirty (30) calendar days' written notice. Upon receiving written notice of desire to terminate, the Parties will commence discussion regarding conformance with the Agreement. If a resolution is reached, the Agreement will proceed. If no resolution is reached, the Agreement will be deemed terminated. Within thirty (30) calendar days of such termination, all funds received from the MWRDGC will be returned, unless other arrangements are agreed upon in writing.
5. If it is determined that the Village provided false, incorrect, or misleading information regarding the Project or the funding thereof, the MWRDGC may terminate this Agreement and require the Village to return a portion or all of the Project-related funds received from the MWRDGC no later than fourteen (14) calendar days following termination of this Agreement. The determination as to whether the Village has violated this Paragraph of the Agreement, and the amount of funds to be returned, is solely in the MWRDGC's discretion.

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Article 9. Effective Date

This Agreement becomes effective on the date that the last signature is affixed to the signature pages.

Article 10. Duration

Subject to the terms and conditions of Article 8 of this Agreement, this Agreement will remain in full force and effect for perpetuity.

Article 11. Non-Assignment

Neither Party may assign its rights or obligations under this Agreement without the prior written consent of the other Party.

Article 12. Waiver of Personal Liability

No official, employee, or agent of either Party to this Agreement will be charged personally by the other Party with any liability or expenses of defense incurred as a result of the exercise of any rights, privileges, or authority granted in this Agreement, nor will he or she be held personally liable under any term, provision, or paragraph of this Agreement, or because of a Party's execution or attempted execution of this Agreement, or because of any breach of this Agreement.

Article 13. Indemnification

The Village will defend, indemnify, and release from liability the MWRDGC, its Commissioners, officers, employees, and other agents ("MWRDGC Parties") from liabilities of every kind, including losses, damages and reasonable costs, payments and expenses (such as, but not limited to, court costs and reasonable attorney fees and disbursements), claims, demands, actions, suits, proceedings, judgments, or settlements, any or all of which are asserted by any individual, private entity, or public entity against the MWRDGC Parties and arise out of or are in any way related to: (1) design, construction, operation, or maintenance of the Project that is the subject of this Agreement or (2) the exercise of any right, privilege, or authority granted to the Village under this Agreement.

Article 14. Representations of the Village

The Village covenants, represents, and warrants as follows:

1. The Village has full authority to execute, deliver, and perform or cause to be performed this Agreement; and

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2. The individuals signing this Agreement and all other documents executed on behalf of the Village are duly authorized to sign on behalf of and to bind the Village; and
3. The execution and delivery of this Agreement, consummation of the transactions provided for in this Agreement, and the fulfillment of the terms will not result in any breach of any of the terms or provisions of or constitute a default under any agreement of the Village or any instrument to which the Village is bound or any judgment, decree, or order of any court, governmental body, or any applicable law, rule, or regulation; and
4. The funds allocated by the Village for this Project are separate from and in addition to the funds that the MWRDGC will provide under this Agreement.

Article 15. Representations of the MWRDGC

The MWRDGC covenants, represents, and warrants as follows:

1. The MWRDGC has full authority to execute, deliver, and perform or cause to be performed this Agreement; and
2. The individuals signing this Agreement and all other documents executed on behalf of the MWRDGC are duly authorized to sign on behalf of and to bind the MWRDGC; and
3. The execution and delivery of this Agreement, consummation of the transactions provided for in this Agreement, and the fulfillment of its terms will not result in any breach of any of the terms or provisions of or constitute a default under any agreement of the MWRDGC or any instrument to which the MWRDGC is bound or any judgment, decree, or order of any court, governmental body, or any applicable law, rule, or regulation.

Article 16. Disclaimers

This Agreement is not intended, nor will it be construed, to confer any rights, privileges, or authority not permitted by Illinois law. Nothing in this Agreement will be construed to establish a contractual relationship between the MWRDGC and any party other than the Village.

Article 17. Waivers

Whenever a Party to this Agreement by proper authority waives the other Party's performance in any respect or waives a requirement or condition to performance, the waiver so granted, whether express or implied, will only apply to the particular instance and will not be deemed a waiver for subsequent instances of the performance, requirement, or condition. No such waiver will be

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construed as a modification of this Agreement regardless of the number of times the performance, requirement, or condition may have been waived.

Article 18. Severability

If any provision of this Agreement is held to be invalid, illegal, or unenforceable, such invalidity, illegality, or unenforceability will not affect any other provisions of this Agreement, and this Agreement will be construed as if such invalid, illegal, or unenforceable provision had never been contained herein. The remaining provisions will remain in full force and will not be affected by the invalid, illegal, or unenforceable provision or by its severance. In lieu of such illegal, invalid, or unenforceable provision, there will be added automatically as part of this Agreement a provision as similar in its terms to such illegal, invalid, or unenforceable provision as may be possible and be legal, valid, and enforceable.

Article 19. Necessary Documents

Each Party agrees to execute and deliver all further documents, and take all further action reasonably necessary, to effectuate the purpose of this Agreement. Upon the completion of the Project, the Village will provide the MWRDGC with a full-sized copy of "As-Built" drawings for the Project. The drawings will be affixed with the "As-Built" printed mark and must be signed by both the Village resident engineer and the contractor.

Article 20. Compliance with Applicable Laws and Deemed Inclusion of Same

1. The Parties agree to observe and comply with all federal, state, and local laws, codes, and ordinances applicable to the Project. Provisions required (as of the effective date) by law, ordinances, rules, regulations, or executive orders to be inserted in this Agreement are deemed inserted in this Agreement whether or not they appear in this Agreement or, upon application by either Party, this Agreement will be amended to make the insertions. However, in no event will the failure to insert such provisions before or after this Agreement is signed prevent its enforcement.
2. The Parties to this Agreement will comply with all applicable federal, state, and local laws, rules, and regulations in carrying out the terms and conditions of this Agreement, including the Equal Opportunity clause set forth in Appendix A to the Illinois Department of Human Rights'

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regulations, which is incorporated by reference in its entirety as though fully set forth in this Agreement.

3. The Village agrees that it will ensure that all contractors and subcontractors that perform work on the Project are properly registered to transact business with the Illinois Secretary of State, are properly licensed for the work to be performed, and are properly insured at all times while performing work under this Agreement.

Article 21. Entire Agreement

This Agreement, and any exhibits or riders attached hereto, constitute the entire agreement between the Parties. No other warranties, inducements, considerations, promises, or interpretations may be implied that are not expressly set forth in this Agreement.

Article 22. Amendments

This Agreement will not be amended unless it is done so in writing and signed by the authorized representatives of both Parties.

Article 23. References to Documents

All references in this Agreement to any exhibit or document will be deemed to include all supplements and authorized amendments to any such exhibits or documents to which both Parties hereto are privy.

Article 24. Judicial and Administrative Remedies

1. The Parties agree that this Agreement and any subsequent amendment will be governed by, and construed and enforced in accordance with the laws of the State of Illinois in all respects, including matters of construction, validity, and performance. The Parties further agree that the proper venue to resolve any dispute which may arise out of this Agreement is the appropriate court of competent jurisdiction located in Cook County, Illinois.
2. The rights and remedies of the MWRDGC or the Village will be cumulative, and election by the MWRDGC or the Village of any single remedy will not constitute a waiver of any other remedy that such Party may pursue under this Agreement.

Article 25. Notices

1. Unless otherwise stated in this Agreement, all notices given in connection with this Agreement will be deemed adequately given only if in writing and addressed to the Party for whom such

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notices are intended at the address set forth in Article 26 of this Agreement. All notices will be sent by personal delivery, overnight messenger service, first class registered or certified mail with postage prepaid and return receipt requested, or by electronic mail. A written notice will be deemed to have been given to the recipient Party on the earlier of (a) the date it is hand-delivered to the address required by this Agreement; (b) with respect to notices sent by overnight courier service, on the next business day following deposit with the overnight courier; (c) with respect to notices sent by mail, two (2) calendar days (excluding Sundays and federal holidays) following the date it is properly addressed and placed in the U.S. Mail, with proper postage prepaid; or (d) with respect to notices sent by electronic mail, on the date of notification of delivery receipt, if delivery was during normal business hours of the recipient, or on the next business day, if delivery was outside normal business hours of the recipient. In the heading of all notices, the Parties must identify the Project by stating as follows: "IGA between the Village of Oak Lawn and the MWRDGC for the Design, Construction, Operation, and Maintenance of the Stormwater Storage at Community High School District 218 Administration Sports Field and Storm Sewer Improvements".

2. The Parties must address all notices referred to in this Agreement, or that either Party desires to give to the other, as set forth in Article 26 of this Agreement, unless otherwise specified and agreed to by the Parties.

Article 26. Representatives

1. Immediately upon execution of this Agreement, the following individuals will represent the Parties as primary contacts and must receive notice in all matters under this Agreement.

For MWRDGC:	For the Village:
Director of Engineering	Village Manager
Metropolitan Water Reclamation District of Greater Chicago	Village of Oak Lawn
100 East Erie Street	9446 South Raymond
Chicago, Illinois 60611	Oak Lawn, IL, 60453
Phone: (312) 751-7905	Phone: 708-499-7743
Email: oconnorc@mwrd.org	Email: tphelan@oaklawn-il.gov

2. Each Party agrees to promptly notify the other Party of any change in its designated representative, and provide the new representative's name, address, telephone number, and electronic mail address.

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Article 27. Interpretation and Execution

1. The Parties agree that this Agreement will not be construed against a Party by reason of who prepared it.
2. Each Party agrees to provide a certified copy of the ordinance, bylaw, or other authority demonstrating that the person(s) signing this Agreement is/are authorized to do so and that this Agreement is a valid and binding obligation of the Party.
3. The Parties will execute this Agreement in quadruplicate with original signatures, unless the Parties otherwise agree to execute electronically.

Article 28. Exhibits and Attachments

The following Exhibits are attached and incorporated into this Agreement, with amended versions attached, as applicable:

Exhibit 1:	Project Vicinity Map and Project Conceptual Drawing
Exhibit 2:	The MWRDGC's Purchasing Act, 70 ILCS 2605/11.1-11.24
Exhibit 3:	The MWRDGC's Multi-Project Labor Agreement (Cook County) with Certificate of Compliance (effective date of October 6, 2017) ("MPLA")
Exhibit 4:	Affirmative Action Ordinance, Revised Appendix D
Exhibit 5:	Veteran's Business Enterprise Contracting Policy, Appendix V
Exhibit 6:	MBE/WBE Utilization Plan
Exhibit 7:	VBE Commitment Form
Exhibit 8:	Affirmative Action Status Report
Exhibit 9:	Operation and Maintenance Plan
Exhibit 10:	Project site property interest documents or Affidavit
Exhibit 11:	Recorded Plat of Stormwater Utility and Drainage Easement

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The Metropolitan Water Reclamation District of Greater Chicago and the Village of Oak Lawn have executed this Agreement, by their authorized officers, duly attested and their seals affixed, as of the date of the last signature affixed hereto.

Village of Oak Lawn

By: Signed by: 153366B1D3434A7...

Tom Phelan, Village Manager

Date: 7/9/2025 | 12:09 PM CDT

ATTEST:

DocuSigned by: EC7451DA1828469...

Claire Henning, Village Clerk

Date: 7/9/2025 | 10:37 AM PDT

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METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

DocuSigned by:
E7C1719E97034F6...

7/23/2025 | 7:59 PM CDT

Chairman of the Committee on Finance — Date

DocuSigned by:
John P. Murray
503BECEC827547D...

7/10/2025 | 6:15 PM CDT

Executive Director — Date

ATTEST:

DS

DocuSigned by:
Jacqueline Torres
7BC510367814426...

7/25/2025 | 6:11 AM PDT

Clerk — Date

APPROVED AS TO ENGINEERING AND TECHNICAL MATTERS:

DocuSigned by:
Gettami G. O'Connor
B3D559FFBD4C4EE...

7/9/2025 | 2:01 PM CDT

Director of Engineering — Date

APPROVED AS TO FORM AND LEGALITY:

DocuSigned by:
Jorge Mikalopoulos
A460BC5C214142C...

Initial
JMP

7/10/2025 | 2:09 PM CDT

Head Assistant Attorney — Date

DocuSigned by:
Susan Marks
60AB3D28A7E44AC...

7/10/2025 | 2:18 PM CDT

General Counsel — Date

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EXHIBIT 1

PROJECT VICINITY MAP AND CONCEPTUAL DRAWING

500 250 0 500 Feet

1 inch = 500 feet

Legend

- Village Storm Structures
- Village Storm Sewers
- Alternative 3 Proposed Sewers
- CBBEL Detention Storage

CBBEL 4:1 Graded Storage
NWL = 589.65
HWL = 596
Storage = 41.6 AC-FT
OCS: 24" Sewer

DSGN.	BMK	CHKD.	DTO

Christopher B. Burke Engineering, Ltd.
9575 West Higgins Road, Suite 600
Rosemont, IL 60018
(847) 823-0500 / FAX (847) 823-0520

CLIENT: VILLAGE OF OAK LAWN

PROJECT NO.: 23-0445

TITLE: CBBEL ALTERNATIVE 3 PROPOSED CONDITIONS

DATE: 05/13/2024

EXHIBIT 5

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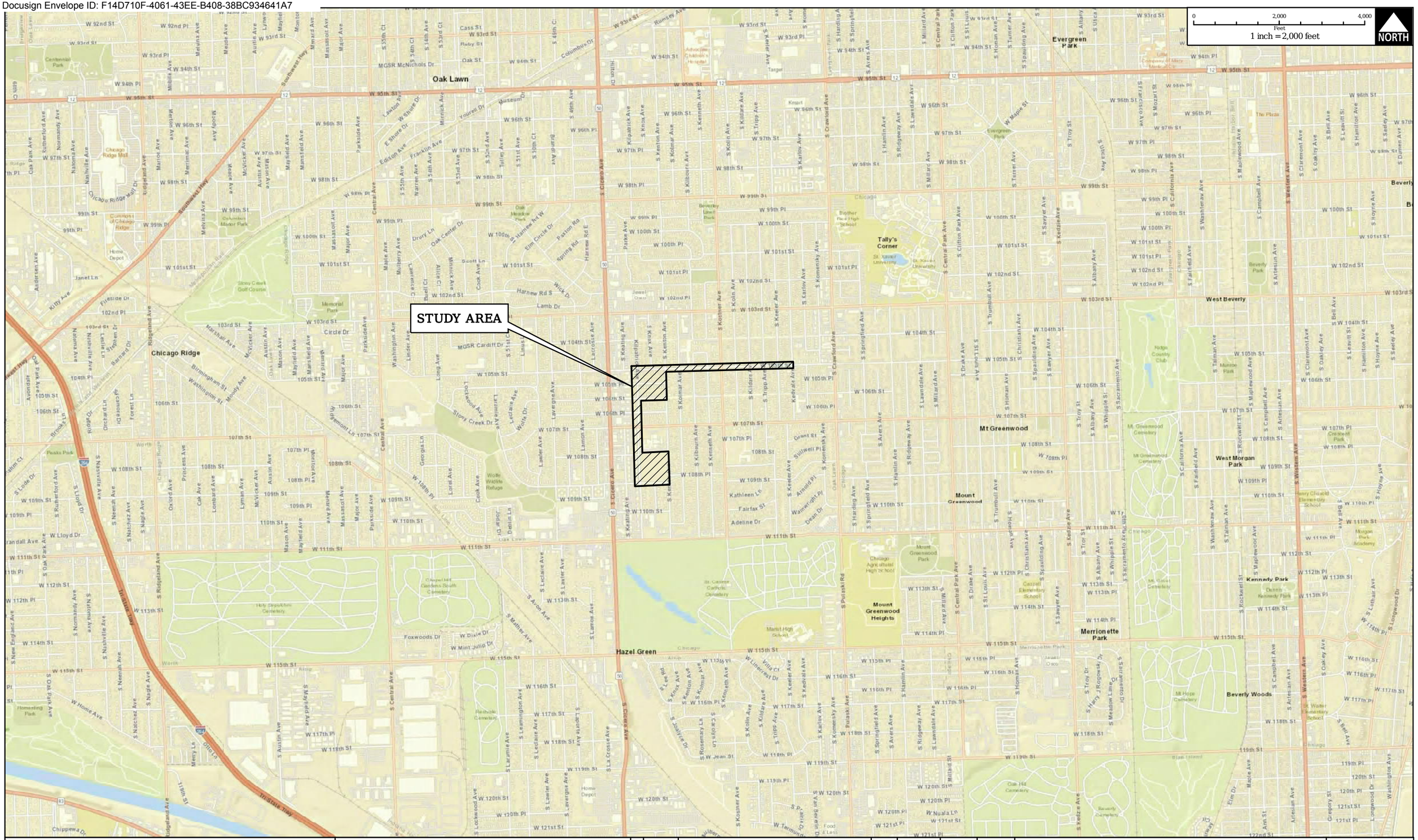

CHRISTOPHER B. BURKE Engineering, Ltd.
9575 W. Higgins Road, Suite 600,
Rosemont, Illinois 60018
(847)823-0500

CLIENT:

VILLAGE OF OAK LAWN

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	KKOPIJA
DWN:	KEK
CHKD.	JMA
SCALE:	1:0
MODEL:	ArcGIS 10
PLOT DATE	8/22/2024
FILE NAME	230445_LOC
PATH	N:\OakLawn\230445\GIS\Exhibits\230445_LOC.mxd

TITLE:

LOCATION MAP

PROJ # 23-0445
DATE: 8/22/2024

EXH 1

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LOCATION / VICINITY MAP

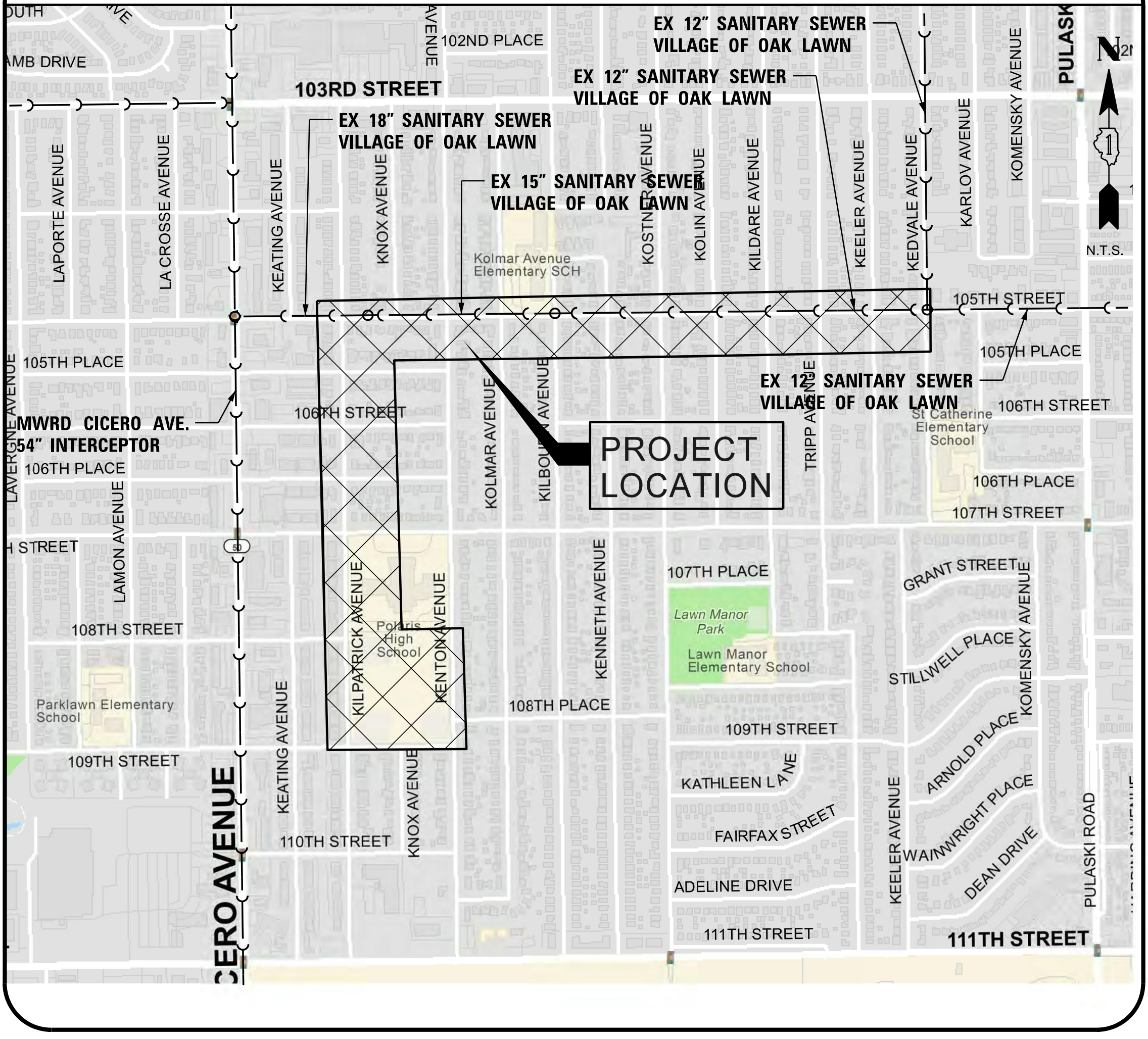

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EXHIBIT 2

MWRDGC'S PURCHASING ACT

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(70 ILCS 2605/11.1) (from Ch. 42, par. 331.1)

Sec. 11.1. Sections 11.1 through 11.24 of this amendatory Act of 1963 shall be known and may be cited as the "Purchasing Act for the Metropolitan Sanitary District of Greater Chicago."

(Source: P.A. 82-1046.)

(70 ILCS 2605/11.2) (from Ch. 42, par. 331.2)

Sec. 11.2. In addition to all the rights, powers, privileges, duties and obligations conferred thereon in "An Act to create sanitary districts and to remove obstructions in the Des Plaines and Illinois rivers", approved May 29, 1889, as amended, the Metropolitan Sanitary District of Greater Chicago shall have the rights, powers and privileges and shall be subject to the duties and obligations conferred thereon by this amendatory Act of 1963.

(Source: Laws 1963, p. 2498.)

(70 ILCS 2605/11.3) (from Ch. 42, par. 331.3)

Sec. 11.3. Except as provided in Sections 11.4 and 11.5, all purchase orders or contracts involving amounts in excess of the mandatory competitive bid threshold and made by or on behalf of the sanitary district for labor, services or work, the purchase, lease or sale of personal property, materials, equipment or supplies, or the granting of any concession, shall be let by free and open competitive bidding after advertisement, to the lowest responsible bidder or to the highest responsible bidder, as the case may be, depending upon whether the sanitary district is to expend or receive money.

All such purchase orders or contracts which shall involve amounts that will not exceed the mandatory competitive bid threshold, shall also be let in the manner prescribed above whenever practicable, except that after solicitation of bids, such purchase orders or contracts may be let in the open market, in a manner calculated to insure the best interests of the public. The provisions of this section are subject to any contrary provisions contained in "An Act concerning the use of Illinois mined coal in certain plants and institutions", filed July 13, 1937, as heretofore and hereafter amended. For purposes of this Section, the "mandatory competitive bid threshold" is a dollar amount equal to 0.1% of the total general fixed assets of the district as reported in the most recent required audit report. In no event, however, shall the mandatory competitive bid threshold dollar amount be less than $10,000 or more than $40,000.

Notwithstanding the provisions of this Section, the sanitary district is expressly authorized to establish such procedures as it deems appropriate to comply with state or federal regulations as to affirmative action and the utilization of small and minority businesses in construction

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and procurement contracts.
(Source: P.A. 92-195, eff. 1-1-02.)

(70 ILCS 2605/11.4) (from Ch. 42, par. 331.4)

Sec. 11.4. Contracts which by their nature are not adapted to award by competitive bidding, such as, but not only, contracts for the services of individuals possessing a high degree of professional skill where the ability or fitness of the individual plays an important part, contracts for the purchase or sale of utilities and contracts for materials economically procurable only from a single source of supply and leases of real property where the sanitary district is the lessee shall not be subject to the competitive bidding requirements of this Act. The sanitary district is expressly authorized to procure from any federal, state or local governmental unit or agency such surplus materials, as may be made available without conforming to the competitive bidding requirements of this Act. Regular employment contracts, whether classified in civil service or not, shall not be subject to the competitive bidding requirements of this Act.
(Source: Laws 1963, p. 2498.)

(70 ILCS 2605/11.5) (from Ch. 42, par. 331.5)

Sec. 11.5. In the event of an emergency affecting the public health or safety, so declared by action of the board of trustees, which declaration shall describe the nature of the injurious effect upon the public health or safety, contracts may be let to the extent necessary to resolve such emergency without public advertisement. The declaration shall fix the date upon which such emergency shall terminate. The date may be extended or abridged by the board of trustees as in its judgment the circumstances require.

The executive director appointed in accordance with Section 4 of this Act shall authorize in writing and certify to the director of procurement and materials management those officials or employees of the several departments of the sanitary district who may purchase in the open market without filing a requisition or estimate therefor, and without advertisement, any supplies, materials, equipment or services, for immediate delivery to meet bona fide operating emergencies where the amount thereof is not in excess of $50,000; provided, that the director of procurement and materials management shall be notified of such emergency. A full written account of any such emergency together with a requisition for the materials, supplies, equipment or services required therefor shall be submitted immediately by the requisitioning agent to the executive director and such report and requisition shall be submitted to the director of procurement and materials management and shall be open to public inspection for a period of at least one year subsequent to the

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date of such emergency purchase. The exercise of authority in respect to purchases for such bona fide operating emergencies shall not be dependent upon a declaration of emergency by the board of trustees under the first paragraph of this Section.
(Source: P.A. 95-923, eff. 1-1-09; 96-165, eff. 8-10-09.)

(70 ILCS 2605/11.6) (from Ch. 42, par. 331.6)

Sec. 11.6. The head of each department shall notify the director of procurement and materials management of those officers and employees authorized to sign requests for purchases. Requests for purchases shall be void unless executed by an authorized officer or employee and approved by the director of procurement and materials management. Requests for purchases may be executed, approved and signed manually or electronically.

Officials and employees making requests for purchases shall not split or otherwise partition for the purpose of evading the competitive bidding requirements of this Act, any undertaking involving amounts in excess of the mandatory competitive bid threshold.
(Source: P.A. 95-923, eff. 1-1-09.)

(70 ILCS 2605/11.7) (from Ch. 42, par. 331.7)

Sec. 11.7. All proposals to award purchase orders or contracts involving amounts in excess of the mandatory competitive bid threshold shall be published at least 12 calendar days in advance of the date announced for the receiving of bids, in a secular English language newspaper of general circulation in said sanitary district and shall be posted simultaneously on readily accessible bulletin boards in the principal office of the sanitary district. Nothing contained in this section shall be construed to prohibit the placing of additional advertisements in recognized trade journals. Advertisements for bids shall describe the character of the proposed contract or agreement in sufficient detail either in the advertisement itself or by reference to plans, specifications or other detail on file at the time of publication of the first announcement, to enable the bidders to know what their obligation will be. The advertisement shall also state the date, time and place assigned for the opening of bids. No bids shall be received at any time subsequent to the time indicated in the announcement; however, an extension of time may be granted for the opening of such bids upon publication in the same newspaper of general circulation in said sanitary district stating the date to which bid opening has been extended. The time of the extended bid opening shall not be less than 5 days after publication, Sundays and legal holidays excluded.

Cash, cashier's check or a certified check payable to the clerk and drawn upon a bank, as a deposit of good faith, in a

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reasonable amount not in excess of 10% of the contract amount, may be required of each bidder by the director of procurement and materials management on all bids involving amounts in excess of the mandatory competitive bid threshold. If a deposit is required, the advertisement for bids shall so specify. Instead of a deposit, the director of procurement and materials management may allow the use of a bid bond if the bond is issued by a surety company that is listed in the Federal Register and is authorized to do business in the State of Illinois.
(Source: P.A. 95-923, eff. 1-1-09.)

(70 ILCS 2605/11.8) (from Ch. 42, par. 331.8)
Sec. 11.8. Any agreement or collusion among bidders or prospective bidders in restraint of freedom of competition by agreement to bid a fixed price, or otherwise, shall render the bids of such bidder void. Each bidder shall accompany his bid with a sworn statement, or otherwise swear or affirm, that he has not been a party to any such agreement or collusion. Any disclosure in advance of the opening of bids, on the terms of the bids submitted in response to an advertisement, made or permitted by the director of procurement and materials management or any officer or employee of said sanitary district shall render the proceedings void and shall require re-advertisement and re-award.
(Source: P.A. 95-923, eff. 1-1-09.)

(70 ILCS 2605/11.9) (from Ch. 42, par. 331.9)
Sec. 11.9. All sealed bids shall be publicly opened by the director of procurement and materials management, or his designee, and such bids shall be open to public inspection for a period of at least 48 hours before award is made; provided, this provision shall not apply to the sale of bonds, tax anticipation warrants or other financial obligations of the sanitary district.
(Source: P.A. 95-923, eff. 1-1-09.)

(70 ILCS 2605/11.10) (from Ch. 42, par. 331.10)
Sec. 11.10. Every contract or purchase order involving amounts in excess of the mandatory competitive bid threshold shall be signed by the president or other duly authorized officer of the board of commissioners, by the executive director, by the clerk and by the director of procurement and materials management. Each bid with the name of the bidder shall be entered upon a record which shall be open to public inspection in the office of the director of procurement and

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materials management. After the award is made, the bids shall be entered in the official records of the board of commissioners.

All purchase orders or contracts involving amounts that will not exceed the mandatory competitive bid threshold shall be let by the director of procurement and materials management. They shall be signed by the director of procurement and materials management and the clerk. All records pertaining to such awards shall be open to public inspection for a period of at least one year subsequent to the date of the award.

An official copy of each awarded purchase order or contract together with all necessary attachments thereto, including assignments and written consent of the director of procurement and materials management shall be retained by the director of procurement and materials management in an appropriate file open to the public for such period of time after termination of contract during which action against the municipality might ensue under applicable laws of limitation. Certified copies of all completed contracts and purchase orders shall be filed with the clerk. After the appropriate period, purchase orders, contracts and attachments in the clerk's possession may be destroyed by direction of the director of procurement and materials management.

The provisions of this Act are not applicable to joint purchases of personal property, supplies and services made by governmental units in accordance with Sections 1 through 5 of "An Act authorizing certain governmental units to purchase personal property, supplies and services jointly," approved August 15, 1961.

(Source: P.A. 95-923, eff. 1-1-09.)

(70 ILCS 2605/11.11) (from Ch. 42, par. 331.11)

Sec. 11.11. In determining the responsibility of any bidder, the director of procurement and materials management may take into account, in addition to financial responsibility, past records of transactions with the bidder, experience, adequacy of equipment, ability to complete performance within a specific time and other pertinent factors, including but not limited to whether the equipment or material is manufactured in North America.

(Source: P.A. 95-923, eff. 1-1-09.)

(70 ILCS 2605/11.12) (from Ch. 42, par. 331.12)

Sec. 11.12. Any and all bids received in response to an advertisement may be rejected by the director of procurement and materials management if the bidders are not deemed responsible, or the character or quality of the services, supplies, materials, equipment or labor do not conform to requirements, or if the public interest may be better served

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thereby.
(Source: P.A. 95-923, eff. 1-1-09.)

(70 ILCS 2605/11.13) (from Ch. 42, par. 331.13)
Sec. 11.13. Bond, with sufficient sureties, in such amount as shall be deemed adequate by the director of procurement and materials management not only to insure performance of the contract in the time and manner specified in said contract but also to save, indemnify and keep harmless the sanitary district against all liabilities, judgments, costs and expenses which may in anywise accrue against said sanitary district in consequence of the granting of the contract or execution thereof shall be required for all contracts relative to construction, rehabilitation or repair of any of the works of the sanitary district and may be required of each bidder upon all other contracts in excess of the mandatory competitive bid threshold when, in the opinion of the director of procurement and materials management, the public interest will be better served thereby.
In accordance with the provisions of "An Act in relation to bonds of contractors entering into contracts for public construction", approved June 20, 1931, as amended, all contracts for construction work, to which the sanitary district is a party, shall require that the contractor furnish bond guaranteeing payment for materials and labor utilized in the contract.
(Source: P.A. 95-923, eff. 1-1-09.)

(70 ILCS 2605/11.14) (from Ch. 42, par. 331.14)
Sec. 11.14. No contract to which the sanitary district is a party shall be assigned by the successful bidder without the written consent of the director of procurement and materials management. In no event shall a contract or any part thereof be assigned to a bidder who has been declared not to be a responsible bidder in the consideration of bids submitted upon the particular contract.
(Source: P.A. 95-923, eff. 1-1-09.)

(70 ILCS 2605/11.15) (from Ch. 42, par. 331.15)
Sec. 11.15. No person shall be employed upon contracts for work to be done by any such sanitary district unless he or she is a citizen of the United States, a national of the United States under Section 1401 of Title 8 of the United States Code, an alien lawfully admitted for permanent residence under Section 1101 of Title 8 of the United States Code, an individual who has been granted asylum under Section 1158 of

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Title 8 of the United States Code, or an individual who is otherwise legally authorized to work in the United States.
(Source: P.A. 98-280, eff. 8-9-13; 99-231, eff. 8-3-15.)

(70 ILCS 2605/11.16) (from Ch. 42, par. 331.16)

Sec. 11.16. The executive director, with the advice and consent of the board of trustees, shall appoint the director of procurement and materials management. Any person appointed as the director of procurement and materials management must have served at least 5 years in a responsible executive capacity requiring knowledge and experience in large scale purchasing activities.

In making the appointment, the president shall appoint an advisory committee consisting of 5 persons, one of whom shall be the executive director, which advisory board shall submit not fewer than 3 names to the general superintendent for the appointment. The executive director shall make the appointment from nominees submitted by the Advisory Committee after giving due consideration to each nominee's executive experience and his ability to properly and effectively discharge the duties of the director of procurement and materials management.

The director of procurement and materials management may be removed for cause by the executive director. He is entitled to a public hearing before the executive director prior to such anticipated removal. The director of procurement and materials management is entitled to counsel of his own choice. The executive director shall notify the board of trustees of the date, time, place and nature of each hearing and he shall invite the board to appear at each hearing.
(Source: P.A. 95-923, eff. 1-1-09.)

(70 ILCS 2605/11.17) (from Ch. 42, par. 331.17)

Sec. 11.17. Powers of director of procurement and materials management. The director of procurement and materials management shall: (a) adopt, promulgate and from time to time revise rules and regulations for the proper conduct of his office; (b) constitute the agent of the sanitary district in contracting for labor, materials, services, or work, the purchase, lease or sale of personal property, materials, equipment or supplies in conformity with this Act; (c) open all sealed bids; (d) determine the lowest or highest responsible bidder, as the case may be; (e) enforce written specifications describing standards established pursuant to this Act; (f) operate or require such physical, chemical or other tests as may be necessary to insure conformity to such specifications with respect to quality of materials; (g) exercise or require such control as may be necessary to insure conformity to contract provisions with respect to quantity; (h) distribute or cause to be distributed, to the various requisitioning agencies of such

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sanitary district such supplies, materials or equipment, as may be purchased by him; (i) transfer materials, supplies, and equipment to or between the various requisitioning agencies and to trade in, sell, donate, or dispose of any materials, supplies, or equipment that may become surplus, obsolete, or unusable; except that materials, supplies, and equipment may be donated only to not-for-profit institutions; (j) control and maintain adequate inventories and inventory records of all stocks of materials, supplies and equipment of common usage contained in any central or principal storeroom, stockyard or warehouse of the sanitary district; (k) assume such related activities as may be assigned to him from time to time by the board of trustees; and (m) submit to the board of trustees an annual report describing the activities of his office. The report shall be placed upon the official records of the sanitary district or given comparable public distribution.
(Source: P.A. 95-923, eff. 1-1-09.)

(70 ILCS 2605/11.18)(from Ch. 42, par. 331.18)

Sec. 11.18. The board of trustees is expressly authorized to establish a revolving fund to enable the director of procurement and materials management to purchase items of common usage in advance of immediate need. The revolving fund shall be reimbursed from appropriations of the using agencies. No officer or employee of a sanitary district organized pursuant to this Act shall be financially interested, directly or indirectly, in any bid, purchase order, lease or contract to which such sanitary district is a party. For purposes of this Section an officer or employee of the sanitary district is deemed to have a direct financial interest in a bid, purchase order, lease or contract with the district, if the officer or employee is employed by the district and is simultaneously employed by a person or corporation that is a party to any bid, purchase order, lease or contract with the sanitary district.

Any officer or employee convicted of a violation of this section shall forfeit his office or employment and in addition shall be guilty of a Class 4 felony.
(Source: P.A. 95-923, eff. 1-1-09.)

(70 ILCS 2605/11.19)(from Ch. 42, par. 331.19)

Sec. 11.19. No department, office, agency or instrumentality, officer or employe of the sanitary district, shall be empowered to execute any purchase order or contract except as expressly authorized by this Act.
(Source: Laws 1963, p. 2498.)

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(70 ILCS 2605/11.19a) (from Ch. 42, par. 331.19a)

Sec. 11.19a. Purchases made pursuant to this Act shall be made in compliance with the "Local Government Prompt Payment Act", approved by the Eighty-fourth General Assembly. (Source: P.A. 84-731.)

(70 ILCS 2605/11.20) (from Ch. 42, par. 331.20)

Sec. 11.20. There shall be a board of standardization, composed of the director of procurement and materials management of the sanitary district who shall be chairman, and 4 other members who shall be appointed by the president of the board of trustees of the sanitary district. The members shall be responsible heads of a major office or department of the sanitary district and shall receive no compensation for their services on the board. The board shall meet at least once each 3 calendar months upon notification by the chairman at least 5 days in advance of the date announced for such meeting. Official action of the board shall require the vote of a majority of all members of the board. The chairman shall cause to be prepared a report describing the proceedings of each meeting. The report shall be transmitted to each member and shall be made available to the president and board of trustees of such sanitary district within 5 days subsequent to the date of the meeting and all such reports shall be open to public inspection, excluding Sundays and legal holidays.

The board of standardization shall: (a) classify the requirements of the sanitary district, including the departments, offices and other boards thereof, with respect to supplies, materials and equipment; (b) adopt as standards, the smallest numbers of the various qualities, sizes and varieties of such supplies, materials and equipment as may be consistent with the efficient operation of the sanitary district; and (c) prepare, adopt, promulgate, and from time to time revise, written specifications describing such standards.

Specifications describing in detail the physical, chemical and other characteristics of supplies, material or equipment to be acquired by purchase order or contract shall be prepared by the board of standardization. However, all specifications pertaining to the construction, alteration, rehabilitation or repair of any real property of such sanitary district shall be prepared by the engineering agency engaged in the design of such construction, alteration, rehabilitation or repair, prior to approval by the director of procurement and materials management. The specification shall form a part of the purchase order or contract, and the performance of all such contracts shall be supervised by the engineering agency designated in the contracts.

In the preparation or revision of standard specifications the board of standardization shall solicit the advice, assistance and cooperation of the several requisitioning agencies and shall be empowered to consult such public or non-public laboratory or technical services as may be deemed expedient. After adoption, each standard specification shall,

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until rescinded, apply alike in terms and effect to every purchase order or contract for the purchase of any commodity, material, supply or equipment. The specifications shall be made available to the public upon request.
(Source: P.A. 95-923, eff. 1-1-09.)

(70 ILCS 2605/11.21) (from Ch. 42, par. 331.21)
Sec. 11.21. Official ordinances authorized by this Act shall be adopted by formal action of the board of trustees of the sanitary district and shall be published for the information of the public.
(Source: Laws 1963, p. 2498.)

(70 ILCS 2605/11.22) (from Ch. 42, par. 331.22)
Sec. 11.22. Any purchase order or contract executed in violation of this Act shall be null and void. Public funds which have been expended thereon, may be recovered in the name of the sanitary district in any court of competent jurisdiction.
(Source: Laws 1963, p. 2498.)

(70 ILCS 2605/11.23) (from Ch. 42, par. 331.23)
Sec. 11.23. The comptroller of the sanitary district shall conduct audits of all expenditures incident to all purchase orders and contracts awarded by the director of procurement and materials management. The comptroller shall report the results of such audits to the president and board of trustees.
(Source: P.A. 95-923, eff. 1-1-09.)

(70 ILCS 2605/11.24) (from Ch. 42, par. 331.24)
Sec. 11.24. (a) A person or business entity shall be disqualified from doing business with The Metropolitan Sanitary District of Greater Chicago for a period of 5 years from the date of conviction or entry of a plea or admission of guilt, if that person or business entity:

1. has been convicted of an act of bribery or attempting to bribe an officer or employee of the federal government or of a unit of any state or local government or school district in that officer's or employee's official capacity; or

2. has been convicted of an act of bid-rigging or attempting to rig bids as defined in the Federal Sherman Anti-Trust Act and Clayton Act; or

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3. has been convicted of bid-rigging or attempting to rig bids under the laws of the State of Illinois or any other state; or

4. has been convicted of an act of price-fixing or attempting to fix prices as defined by the Federal Sherman Anti-Trust Act and Clayton Act; or

5. has been convicted of price-fixing or attempting to fix prices under the laws of the State of Illinois or any other state; or

6. has been convicted of defrauding or attempting to defraud the Federal government or a unit of any state or local government or school district; or

7. has made an admission of guilt of such conduct as set forth in subsections 1 through 6 above, which admission is a matter of record, whether or not such person or business entity was subject to prosecution for the offense or offenses admitted to; or

8. has entered a plea of nolo contendere to charges of bribery, price-fixing, bid-rigging, or fraud as set forth in subsections 1 through 6 above.

(b) "Business entity" as used in this section means a corporation, partnership, trust, association, unincorporated business or individually owned business.

(c) A business entity shall be disqualified if the following persons are convicted of, have made an admission of guilt, or enter a plea of nolo contendere to a disqualifying act described in paragraph (a), subsections 1 through 6, regardless of whether or not the disqualifying act was committed on behalf or for the benefit of such business entity:

(1) a person owning or controlling, directly or indirectly, 20% or more of its outstanding shares; or

(2) a member of its board of directors; or

(3) an agent, officer or employee of such business entity.

(d) Disqualification Procedure. After bids are received, whether in response to a solicitation for bids or public advertising for bids, if it shall come to the attention of the director of procurement and materials management that a bidder has been convicted, made an admission of guilt, a plea of nolo contendere, or otherwise falls within one or more of the categories set forth in paragraphs (a), (b) or (c) of this Section, the director of procurement and materials management shall notify the bidder by certified mail, return receipt requested, that such bidder is disqualified from doing business with the Sanitary District. The notice shall specify the reasons for disqualification.

(e) Review Board. A review board consisting of 3 individuals shall be appointed by the Executive Director of the Sanitary District. The board shall select a chairman from its own members. A majority of the members shall constitute a quorum and all matters coming before the board shall be determined by a majority. All members of the review board shall serve without compensation, but shall be reimbursed actual expenses.

(f) Review. The director of procurement and materials management's determination of disqualification shall be final

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as of the date of the notice of disqualification unless, within 10 calendar days thereafter, the disqualified bidder files with the director of procurement and materials management a notice of appeal. The notice of appeal shall specify the exceptions to the director of procurement and materials management's determination and shall include a request for a hearing, if one is desired. Upon receipt of the notice of appeal, the director of procurement and materials management shall provide a copy to each member of the review board. If the notice does not contain a request for a hearing, the director of procurement and materials management may request one within 5 days after receipt of the notice of appeal. If a hearing is not requested, the review board may, but need not, hold a hearing.

If a hearing is not requested, the review board, unless it decides to hold a hearing, shall review the notice of disqualification, the notice of appeal and any other supporting documents which may be filed by either party. Within 15 days after the notice of appeal is filed, the review board shall either affirm or reverse the director of procurement and materials management's determination of disqualification and shall transmit a copy to each party by certified mail, return receipt requested.

If there is a hearing, the hearing shall commence within 15 days after the filing of the notice of appeal. A notice of hearing shall be transmitted to the director of procurement and materials management and the disqualified bidder not later than 12 calendar days prior to the hearing date, by certified mail, return receipt requested.

Evidence shall be limited to the factual issues involved. Either party may present evidence and persons with relevant information may testify, under oath, before a certified reporter. Strict rules of evidence shall not apply to the proceedings, but the review board shall strive to elicit the facts fully and in credible form. The disqualified bidder may be represented by an attorney.

Within 10 calendar days after the conclusion of the hearing, the review board shall make a finding as to whether or not the reasons given in the director of procurement and materials management's notice of disqualification apply to the bidder, and an appropriate order shall be entered. A copy of the order shall be transmitted to the director of procurement and materials management and the bidder by certified mail, return receipt requested.

(g) All final decisions of the review board shall be subject to review under the Administrative Review Law.

(h) Notwithstanding any other provision of this section to the contrary, the Sanitary District may do business with any person or business entity when it is determined by the director of procurement and materials management to be in the best interest of the Sanitary District, such as, but not limited to contracts for materials or services economically procurable only from a single source.

(Source: P.A. 95-923, eff. 1-1-09.)

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EXHIBIT 3

MWRDGC'S MULTI-PROJECT LABOR AGREEMENT (MPLA)

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MULTI-PROJECT LABOR AGREEMENT (COOK COUNTY)

With

CERTIFICATE OF COMPLIANCE

CONTAINS:

1) **MPLA – EFFECTIVE OCTOBER 6, 2017**
2) **CERTIFICATE OF COMPLIANCE**

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GENERAL REQUIREMENTS UNDER THE MULTI-PROJECT LABOR AGREEMENT

The following is a brief summary of a Bidder's responsibilities under the MPLA. Please refer to the terms of the MPLA for a full and complete statement of its requirements.

Your firm is required to complete the Certificate of Compliance indicating that your firm intends to comply with the Multi-Project Labor Agreement. The Certificate of Compliance must be signed by an authorized Officer of the firm. This may be submitted with the bid or prior to award of contract. To be eligible for award, your firm must comply with the Multi-Project Labor Agreement and sign the certificate. Failure of the Bidder to comply with the MPLA will result in a rejection of the bid, and possible retention of the bid deposit. Compliance with the MPLA, is as follows:

> If the Bidder or any other entity performing work under the contract is not already signatory to a current collective bargaining agreement with a union or labor organization affiliated with the AFL-CIO Building Trades Department and the Chicago and Cook County Building and Construction Trades Council, or their affiliates which have jurisdiction over the work to be performed pursuant to this Contract, (hereafter referred to as a "participating trade group") it must become a member.

Note: The MPLA is not applicable when the performance of work is outside Cook County, Illinois, or if repair and maintenance work on equipment is performed at a Bidder's facility.

Revised October 2017

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METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
MULTI-PROJECT LABOR AGREEMENT FOR COOK COUNTY

This Multi-Project Labor Agreement ("Agreement") is entered into by and between the Metropolitan Water Reclamation District of Greater Chicago ("MWRD" or "District"), a public body, as Owner, in its proper capacity, on behalf of itself and each of its contractors and subcontractors of whatever tier ("Contractors") and shall be applicable to Construction Work on Covered Projects, both defined herein, to be performed by the District's Contractors along with each of the undersigned labor organizations signatory to the Chicago and Cook County Building and Construction Trades Council and, as appropriate, the Teamsters Joint Council No. 25, or their affiliates who become signatory hereto (collectively "Union(s)").

This Agreement is entered into in accordance with all applicable local state and federal laws. The District recognizes the public interest in timely construction and labor stability.

WHEREAS, MWRD is responsible for the actual construction, demolition, rehabilitation, deconstruction, and/or renovation work ("Construction Work") of projects overseen by MWRD in the geographical boundaries of Cook County. All of the District's Construction Work within those boundaries ("Covered Projects") will be recognized as covered under the terms of this Agreement regardless of the source of the Funds for the Project. Due to the size, scope, cost, timing, and duration of the multitude of Covered Projects traditionally performed by MWRD, the Parties to this Agreement have determined that it is in their interests to have these Covered Projects completed in the most productive, economical, and orderly manner possible and without labor disruptions of any kind that might interfere with, or delay, any of said Covered Projects; and

WHEREAS, the Parties have determined that it is desirable to eliminate the potential for friction and disruption of these Covered Projects by using their best efforts to ensure that all Construction Work is performed by the Unions that are signatory hereto and which have traditionally performed and have trade and geographic jurisdiction over such work regardless of the source of the Funds for the Project. Experience has proven the value of such cooperation and mutual undertakings; and

WHEREAS, the Parties acknowledge that the District is not to be considered an employer of any employee of any Contractor covered under this Agreement, and the District acknowledges that it has a serious and ongoing concern regarding labor relations associated with its Covered Projects, irrespective of the existence of a collective bargaining relationship with any of the signatory Unions.

NOW THEREFORE, in order to further these goals and objectives and to maintain a spirit of harmony, labor-management cooperation, and stability, the Parties agree as follows:

1. During the term of this Agreement, MWRD shall neither contract, nor permit any other person, firm, company, or entity to contract or subcontract for any Construction Work on any Covered Project under this Agreement, unless such work is performed by a person, firm, or company signatory, or willing to become signatory, to the current applicable area-wide collective bargaining agreement(s) with the appropriate trade/craft Union(s) affiliated with the Chicago & Cook County Building & Construction Trades Council or, as appropriate, the Teamsters' Joint Council No. 25. Copies of all applicable, current collective bargaining agreements constitute Appendix A of this Agreement, attached hereto and made an integral part hereof, and as may be modified from time to time during the term of this Agreement.

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Said provisions of this Agreement shall be included in all advertised contracts, excluding non-Construction Work, and shall be explicitly included in all contracts or subcontracts of whatsoever tier by all Contractors on Covered Projects.

a. The Parties agree that the repair of heavy equipment, thermographic inspection, and landscaping shall be defined and/or designated as Construction Work on all Covered Projects.
b. The Unions acknowledge that some preassembled or prefabricated equipment and material will be used on Covered Projects. To the extent consistent with existing collective bargaining agreements and applicable law, there will be no refusal by the Unions to handle, transport, install, or connect such equipment or materials. Further, equipment and material procured from sources outside of the geographic boundaries of Cook County may be delivered by independent cargo, haulers, rail, ship and/or truck drivers and such delivery will be made without any disruption as the District will request its Contractors to request Union-affiliate employees to make deliveries to the Covered Project sites.
c. Notwithstanding anything to the contrary herein, the terms of this Agreement shall not apply to work performed at the Contractor's facility for repair and maintenance of equipment or where repair, maintenance, or inspection services are done by highly-skilled technicians trained in servicing equipment, unless otherwise provided by the relevant collective bargaining agreement.
d. Nothing herein shall prohibit or otherwise affect the District's right to cancel or otherwise terminate a contract.
e. A pre-construction meeting attended by representatives of the District, the Contractors, and Unions shall be scheduled for a date prior to commencement of a Covered Project. The nature of the project, the May 15, 2017 Covered Construction Work, the work assignments, and any other matters of mutual interest will be discussed. All parties participating in the pre-job conferences shall sign a pre-job-sign-in sheet. During the pre-job conference, or shortly thereafter, and before the commencement of the project, the contactor or subcontractor shall ensure that there has been submitted to the District a letter of good standing for the applicable trades explaining that the contractor or subcontractor is not delinquent with respect to any dues owed to the appropriate labor organization or with respect to any fringe contributions owed to the appropriate fringe benefit fund(s). If a union or fringe benefit fund does not produce a letter of good standing within seven (7) days after a request is made no such letter of good standing shall be required for that particular trade.
f. The Unions agree to reasonably cooperate with the MWRD and Contractors in order to assist them in achieving the Worker Percentage Participation goals as defined in subsection (1) and (2) below. The Worker Percentage Participation goals are governed by federal requirements regarding federal construction contracts. To the extent these federal worker percentage participation goals are modified in the future, such modifications will automatically apply:

(1) 19.6% of the total aggregate of construction hours worked by employees of contractors and their subcontractors will be performed by African-American, Hispanic, Native American, Asian-Pacific, and Subcontinent Asian American workers.
(2) 6.9% of the total aggregate of construction hours worked by employees of the contractors and their subcontractors will be performed by female workers.

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2. A contractor or subcontractor which is a successful bidder with respect to Covered Projects, but which is not signatory to the applicable area-wide collective bargaining agreements incorporated herein, shall be required to execute such applicable area-wide collective bargaining agreements within seven (7) days of being designated a successful bidder. If such an agreement is not executed within that time period, said contractor or subcontractor will be disqualified. In no event shall a contractor or subcontractor be required to sign any of the applicable agreements constituting Appendix A if the contractor or subcontractor does not employ the trade covered by the applicable Appendix A contract.

3. During the term of this Agreement, no Union signatory hereto nor any of its members, officers, stewards, agents, representatives, nor any employee, shall instigate, authorize, support, sanction, maintain, or participate in any strike walkout, work stoppage, work slowdown, work curtailment, cessation, or interruption of production, or in any picketing of any Covered Project site covered by this Agreement for any reason whatsoever, including, but not limited to, the expiration of any collective bargaining agreement referred to in Appendix A, a dispute between the Parties and any Union or employee, or as a show of support or sympathy for any other Union employee or any other group. In the event of an economic strike or other job action upon the termination of an existing collective bargaining agreement, no adverse job action shall be directed against any Covered Project sites. All provisions of any subsequently negotiated collective bargaining agreement shall be retroactive for all employees working on the Covered Project.

4. Each Union signatory hereto agrees that it will use its best efforts to prevent any of the acts forbidden in Paragraph 4, and that in the event any such act takes place or is engaged in by any employee or group of employees, each Union signatory hereto further agrees that it will use its best efforts (including its full disciplinary power under its Constitution and/or By-Laws) to cause an immediate cessation thereof. Each union also agrees that if any union, individual or group of employees on covered projects engages in any handbilling, picketing, strike, walkout, work stoppage, work slowdown, work curtailment, cessation or interruption, the other unions will consider such picketing or other work action as unauthorized and will refuse to honor any picket line established and the unions further agree to instruct their members to cross such unauthorized lines. Failure of any union or groups of employees to cross such unauthorized picket lines on any covered project shall be a violation of this agreement.

5. Any Contractor signatory or otherwise bound, stipulated to, or required to abide by any provisions of this Agreement may implement reasonable project rules and regulations, and these rules and regulations shall be distributed to all employees on the Covered Project. Provided, however, that such rules and regulations shall not be inconsistent with the terms of this Agreement or any applicable area-wide collective bargaining agreement. Any Contractor shall have the right to discharge or discipline its Union employees who violate the provisions of this Agreement or any Covered Project's rules and regulations. Such discharge or discipline by a Contractor shall be subject to the Grievance/ Arbitration procedure of the applicable area-wide collective bargaining agreement only as to the fact of such employee's violation of this Agreement. If such fact is established, the penalty imposed shall not be subject to review or disturbed. Construction Work at any Covered Project site under this Agreement shall continue without disruption or hindrance of any kind during any Grievance/Arbitration procedure.

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6. The Unions understand and acknowledge that the District's Contractors are responsible to perform Construction Work as required by the District. The Contractors have complete authority to do the following, subject to District approval, if required, and if consistent with the terms of the collective bargaining agreements attached hereto:

a. Plan, direct, and control the operations of all work;
b. Hire and lay off employees as the Contractor deems appropriate to meet work requirements;
c. Determine work methods and procedures;
d. Determine the need and number of foremen;
e. Require all employees to observe Contractor and/or District rules and regulations;
f. Require all employees to work safely and observe all safety regulations prescribed by the Contractor and/or the District; and
g. Discharge, suspend, or discipline employees for proper cause.
h. Abide by the rules set forth in each respective Trade Unions' Collectively Bargained Agreement pertaining to apprentice to journeymen ratios.

7. Nothing in the foregoing shall prohibit or restrict any Party from otherwise judicially enforcing any provision of its collective bargaining agreement between any Union and a Contractor with whom it has a collective bargaining relationship.

8. This Agreement shall be incorporated into all advertised contract documents after the Board of Commissioners adopts and ratifies this Agreement.

9. The term of this Agreement shall be five (5) years and shall be automatically extended from year to year unless the District or the Council issues a written notice to terminate prior to ninety (90) days in advance of any expiration. Any Covered Project commenced during and/or covered by the terms of this Agreement shall continue to be covered by its terms until the final completion and acceptance of the Covered Project by the District.

10. In the event a dispute shall arise between a contractor or subcontractor any signatory union and/or fringe benefit fund as to the obligation and/or payment of fringe benefits provided for under the appropriate Collective Bargaining Agreement, upon notice to the District by the appropriate union signatory hereto of a claim for such benefits, the District shall forward such notification to the surety upon the contract, and to the general contractor.

11. In the event of a jurisdictional dispute by and between any Unions, such Unions shall take all steps necessary to promptly resolve the dispute. In the event of a dispute relating to trade or work jurisdiction, Parties, including Contractors, consent to and agree that a final and binding resolution of the dispute shall be achieved in accordance with the terms of paragraph nine of the Joint Conference Board Standard Agreement between the Chicago & Cook County Building Trades Council and the Construction Employers' Association, attached hereto as Appendix B, and as may be modified from time to time during the term of this Agreement.

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12. This Agreement shall be incorporated into and become a part of the collective bargaining agreements between the Unions signatory hereto and Contractors and their subcontractors. In the event of any inconsistency between this Agreement and any collective bargaining agreement, the terms of this Agreement shall supersede and prevail. In the event of any inconsistency between this Agreement and any collective bargaining agreement, the terms of this Agreement shall supersede and prevail except for all work performed under the NTP Articles of Agreement, the National Stack/Chimney Agreement, the National Cooling Tower Agreement, all instruction calibration work and loop checking shall be performed under the terms of the UA/IBEW Joint National Agreement for Instrument and Control systems Technicians, and the National Agreement of the International Union of Elevator Contractors with the exception of the content and subject matter of Article V, VI, and VII of the AFL-CIO's Building & Construction Trades Department model Project Labor Agreement.

13. The Parties agree that in the implementation and administration of this Agreement, it is vitally necessary to maintain effective and immediate communication so as to minimize the potential of labor relations disputes arising out of this Agreement. To that end, each Party hereto agrees to designate, in writing, a representative to whom problems which arise during the term of this Agreement may be directed. Within forty-eight (48) hours after notice of the existence of any problem, a representative of each Party shall meet to discuss and, where possible, resolve such problems. The representative of the Unions shall be President of the Chicago & Cook County Building & Construction Trades Council or his/her designee. The representative of MWRD shall be the District's Assistant Director of Engineering, Construction Division or his/her designee.

14. The District and the Contractors agree that the applicable substance abuse policy (i.e., drug, alcohol, etc.) on any Covered Project shall be that as contained or otherwise provided for in the relevant area-wide collective bargaining agreements attached as Appendix A to this Agreement. Nothing in the foregoing shall limit the District and/or Contractors from initiating their own substance abuse policy governing other employees performing work on a project not otherwise covered under this Agreement. In the event there is no substance abuse policy in the applicable collective bargaining agreements, the policy adopted by the District and/or Contractor may apply. The District is not responsible for administering any substance abuse policy for non-District employees.

15. The Parties recognize a desire to facilitate the entry into the building and construction trades of veterans who are interested in careers in the building and construction industry. The Contractors and Unions agree to utilize the services of the Center for Military Recruitment, Assessment and Veterans Employment ("Center"), the Center's Helmets to Hardhats program, and the Veteran's In Piping (V.I.P) program (this only pertains to the United Association PipeFitter's Local 597, Plumbers Local 130, and Sprinkler Fitter's Local 281), to serve as a resource for preliminary orientation, assessment of construction aptitude, and referral to apprenticeship programs or hiring halls, counseling and mentoring, support network, employment opportunities, and other needs as identified by the Parties. The Contractors and Unions also agree to coordinate with the Center to create and maintain an integrated database of veterans interested in working on Covered Projects, including apprenticeship and employment opportunities on such projects. To the extent permitted by law, the Parties will give

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appropriate credit to such veterans for bona fide, provable past experience in the building and construction industry.

16. The Parties agree that Contractors working under the terms of this Agreement shall be required to utilize the maximum number of apprentices on Covered Projects as permitted under the applicable area-wide collective bargaining agreements contained in Appendix A, where feasible and practical.

17. Neither the District, the Contractors, nor the Unions shall discriminate against any employees of a protected class, including but not limited to on the basis of race, creed, color, national origin, age, or sex, in accordance with all applicable state and federal laws and regulations.

18. If any provision or other portion of this Agreement shall be determined by any court of competent jurisdiction to be invalid, illegal, or unenforceable in whole or in part, and such determination shall become final, it shall be deemed to be severed or limited, but only to the extent required to render the remaining provisions and portions of this Agreement enforceable. This Agreement, as amended, shall be enforced so as to give effect to the intention of the Parties insofar as possible.

19. Under this Agreement, any liability of the Parties shall be several and not joint. The District shall not be liable for any violations of this Agreement by any Contractor or Union, and any Contractor or Union shall not be liable for any violations of this Agreement by the District, any other Contractor, or any other Union. In the event any provision of this Agreement is determined to be invalid, illegal, or unenforceable as specified in Paragraph 18, neither the District, nor any Contractor or Union, shall be liable for any action taken or not taken to comply with any court order.

20. The Parties are mutually committed to promoting a safe working environment for all personnel at the job site. It shall be the responsibility of each employer to which this Agreement applies to provide a work environment free of illegal drugs and any concealed weapons, to maintain safe working conditions for its employees, and to comply with all applicable federal, state, and local health and safety laws and regulations.

21. The use or furnishing of alcohol, weapons, or illegal drugs and the conduct of any other illegal activities at the job site is strictly prohibited. The Parties shall take every practical measure consistent with the terms of the applicable area-wide collective bargaining agreement to ensure that the job site is free of weapons, alcohol, and illegal drugs.

22. Each Union representing workers engaged in Construction Work on a Covered Project is bound to this Agreement with full authority to negotiate and sign this Agreement with the District.

23. All Parties represent that they have the full legal authority to enter into this Agreement.

24. This document, with the attached Appendices, constitutes the entire Agreement of the Parties and may not be modified or changed except by subsequent written agreement of the Parties.

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25. Having been adopted by the Board of Commissioners on August 3, 2017, and ratified and effective as of the last date on the signature page, this agreement supersedes any other Multi-Project Labor Agreement previously entered into by the parties as of the date of ratification.

[Remainder of page intentionally left blank. Signature page follows.]

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The undersigned, as a Party hereto, hereby agrees to all the terms and conditions of this Agreement.

Dated this 16TH day of OCTOBER, 2017 in Chicago, Cook County, Illinois.

On behalf of the Metropolitan Water Reclamation District of Greater Chicago

David St. Pierre
Executive Director
Management

Darlene A. LoCascio
Director of Procurement and Materials

Approved as to Form and Legality

Helen Shields-Wright
Head Assistant Attorney

Jacqueline Torres
Director of finance/Clerk

Susan T. Morakalis
Acting General Counsel

Frank Avila
Chairman of Finance

Mariyana T. Spyropoulos
Chairman, Committee on Labor and Industrial Relations

Approved

Mariyana T. Spyropoulos, President

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MWRD RA

September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 15th day of September, 2017 in Chicago, Cook County, Illinois.

On behalf of: Teamsters Local Union No. 731
Labor Organization

APPROVED:

Its Duly Authorized Officer Terrence J. Hancock, President

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MWRD RA

September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 13th day of September, 2017 in Chicago, Cook County, Illinois.

On behalf of: Sprinkler Fitters Union Local 281, U.A.
Labor Organization

APPROVED:

Its Duly Authorized Officer

Dennis J. Fleming, Business Manager

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MWRD PLA

September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12 day of Sept., 2017 in Chicago, Cook County, Illinois.

On behalf of: SMART Local #23
Labor Organization

APPROVED:

Rocco Terzo
Its Duly Authorized Officer

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MWRD RA
September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12 day of September, 2017 in Chicago, Cook County, Illinois.

On behalf of: Roofers + Waterproofers #11
Labor Organization

APPROVED:

Its Duly Authorized Officer

Docusign Envelope ID: F14D710F-4061-43EE-B408-38BC934641A7

MWRD PLA

September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12 day of Sept., 2017 in Chicago, Cook County, Illinois.

On behalf of: Plumbers Local 130 UA
Labor Organization

APPROVED:

James F. Coyne
Its Duly Authorized Officer

Docusign Envelope ID: F14D710F-4061-43EE-B408-38BC934641A7

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12TH day of SEPTEMBER 2017 in Chicago, Cook County, Illinois.

On behalf of: PIPEFITTERS LOCAL 597
Labor Organization

APPROVED:

Its Duly Authorized Officer

Docusign Envelope ID: F14D710F-4061-43EE-B408-38BC934641A7

MWRD PLA

September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12th day of September 2017 in Chicago, Cook County, Illinois.

On behalf of: Painters / Glaziers
Labor Organization

APPROVED:

Its Duly Authorized Officer

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MWRD PLA

September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12 day of SEPT, 2017 in Chicago, Cook County, Illinois.

On behalf of: OPERATING ENGINEER 150
Labor Organization

APPROVED:

Its Duly Authorized Officer

Docusign Envelope ID: F14D710F-4061-43EE-B408-38BC934641A7

MWRD PLA

September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12 day of September, 2017 in Chicago, Cook County, Illinois.

On behalf of: Machinists Local 126
Labor Organization

APPROVED:

Its Duly Authorized Officer

Docusign Envelope ID: F14D710F-4061-43EE-B408-38BC934641A7

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12 day of SEPTEMBER, 2017 in Chicago, Cook County, Illinois.

On behalf of: LABORERS' DISTRICT COUNCIL
Labor Organization

APPROVED:

Its Duly Authorized Officer

Docusign Envelope ID: F14D710F-4061-43EE-B408-38BC934641A7

MWRD PLA

September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 20th day of September 2017 in Chicago, Cook County, Illinois.

On behalf of: RIGGER LOCAL #136
Labor Organization

APPROVED:

Its Duly Authorized Officer

Docusign Envelope ID: F14D710F-4061-43EE-B408-38BC934641A7

MWRD PLA

September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12 day of Sept. 2017 in Chicago, Cook County, Illinois.

On behalf of: Iron Workers #63
Labor Organization

APPROVED:

Its Duly Authorized Officer

Docusign Envelope ID: F14D710F-4061-43EE-B408-38BC934641A7

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12th day of September, 2017 in Chicago, Cook County, Illinois.

On behalf of: IRON WORKERS #1
Labor Organization

APPROVED:

Craig Salustro
Its Duly Authorized Officer

Docusign Envelope ID: F14D710F-4061-43EE-B408-38BC934641A7

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12th day of September 2017 in Chicago, Cook County, Illinois.

On behalf of: Heat + Frost Insulators Local #17
Labor Organization

APPROVED:

Wm. J. Mayer
Its Duly Authorized Officer

Docusign Envelope ID: F14D710F-4061-43EE-B408-38BC934641A7

MWRD PLA

September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12 day of SEPTEMBER, 2017 in Chicago, Cook County, Illinois.

On behalf of: IUEC LOCAL 2
Labor Organization

APPROVED:

Its Duly Authorized Officer

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MWRD PLA

September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12 day of Sept, 2017 in Chicago, Cook County, Illinois.

On behalf of: Local 134 IBEW
Labor Organization

APPROVED:

Its Duly Authorized Officer

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MWRD PLA

September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12 day of Sept, 2017 in Chicago, Cook County, Illinois.

On behalf of: CEMENT MASON'S & PLASTER'S
Labor Organization

APPROVED:

Its Duly Authorized Officer

Docusign Envelope ID: F14D710F-4061-43EE-B408-38BC934641A7

NWRD PLA

September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12 day of SEPTEMBER 2017 in Chicago, Cook County, Illinois.

On behalf of CARPENTERS
Labor Organization

APPROVED:

Its Duly Authorized Officer

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MWRD PLA

September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12 day of SEPTEMBER, 2017 in Chicago, Cook County, Illinois.

On behalf of: BRICKLAYERS AND ALLIED CRAFTS
Labor Organization

APPROVED:

Its Duly Authorized Officer

Docusign Envelope ID: F14D710F-4061-43EE-B408-38BC934641A7

MWRD PLA

September 6, 2017

The undersigned, as a Party hereto, agrees to all the terms and conditions of this Agreement.

Dated this the 12 day of September 2017 in Chicago, Cook County, Illinois.

On behalf of: International Brotherhood of Boilermakers Local 007C
Labor Organization

APPROVED:

Its Duly Authorized Officer

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APPENDIX A

For copies of Collective Bargaining Agreements, please go to the MWRD Website and click on:

Freedom of Information Act (FOIA)/Category of Records

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September 6, 2017

APPENDIX B

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JOINT CONFERENCE BOARD
STANDARD AGREEMENT
6/1/15 – 5/31/20

Construction Employers' Association
And
Chicago & Cook County Building & Construction Trades Council

MPLA-CC-33

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The Standard Agreement
between
The Construction Employers' Association
and
The Chicago & Cook County
Building & Construction Trades Council
Establishing
The Joint Conference Board

MPLA-CC-34

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CHRONOLOGY

ADOPTED NOVEMBER 18, 1926
AMENDED AND READOPTED JANUARY 11, 1929
AMENDED AND READOPTED JUNE 24, 1942
READOPTED APRIL 28, 1947
AMENDED AND READOPTED MARCH 19, 1952
READOPTED FEBRUARY 12, 1957
AMENDED AND READOPTED MAY 13, 1958
AMENDED AND READOPTED FEBRUARY 11, 1960
AMENDED AND READOPTED MAY 21, 1963
AMENDED NOVEMBER 16, 1965
AMENDED MARCH 14, 1967
AMENDED AND READOPTED MARCH 4, 1968
AMENDED AND READOPTED NOVEMBER 11, 1971
READOPTED NOVEMBER 20, 1973
READOPTED DECEMBER 12, 1978
READOPTED APRIL 12, 1983
READOPTED MARCH 31, 1988
AMENDED AND READOPTED APRIL 25, 1989
REFORMATTED, AMENDED AND READOPTED JUNE 1, 1994
AMENDED AND READOPTED JUNE 1, 1999
AMENDED APRIL 1, 2003
AMENDED AND READOPTED JUNE 1, 2004
AMENDED AND READOPTED JUNE 1, 2005
AMENDED AND READOPTED JUNE 25, 2008
AMENDED AND READOPTED FEBRUARY 15, 2010
AMENDED AND READOPTED MAY 28, 2015

Expiration Date: MAY 31, 2020

Docusign Envelope ID: F14D710F-4061-43EE-B408-38BC934641A7

DocuSign Envelope ID: 5DD9C849-6998-4E39-8A30-1E642D258425

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PREAMBLE

This Agreement is entered into to prevent strikes and lockouts and to facilitate peaceful adjustment of jurisdictional disputes in the building and construction industry and to prevent waste and unnecessary avoidable delays and expense, and for the further purpose of at all times securing for the employer sufficient skilled workers and so far as possible to provide for labor continuous employment, such employment to be in accordance with the conditions and at the wages agreed upon, in the particular trade or craft, that stable conditions may prevail in the construction industry, that costs may be as low as possible consistent with fair wages and conditions and further to establish the necessary procedure by which these ends may be accomplished.

This Standard Agreement shall be considered and shall constitute a part of all agreements between Employers and Labor Unions, members of the Construction Employers' Association, herein call the Association, and the Chicago & Cook County Building & Construction Trades Council, herein called the Council, as containing within its terms the necessary protection of and assuring undisturbed conditions in the industry. In the event of any inconsistency between this Agreement and any collective bargaining agreement, the terms of this Agreement shall supersede and prevail except for all work performed under the NT Articles of Agreement, the National Stack/Chimney Agreement, the National Cooling Tower Agreement, all instrument calibration work and loop checking shall be performed under the terms of the UA/IBEW Joint National Agreement for instrument and Control Systems Technicians, and the National Agreement of the International Union of Elevator Constructors with the exception of the content and subject matter of Articles V, VI and VII of the AFL-CIO's Building & Construction Trades Department model Project Labor Agreement.

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DECLARATION OF PRINCIPLES

The Principles contained herein are fundamental, and no articles or section in this Agreement or in the collective bargaining agreement pertaining to a specific trade or craft shall be construed as being in conflict with these principles. In the event any conflict exists between this Agreement and any collective bargaining agreement subject to the Provisions of this Agreement and the dispute resolution provisions contained hereunder, and pertaining to a specific trade or craft concerning the resolution of jurisdictional disputes, the parties specifically agree that the terms of this Agreement are exclusive and supersede any other provisions or procedures relating to the settlement of jurisdictional disputes contained in such collective bargaining agreement.

I. There shall be no limitation as to the amount of work a worker shall perform during the work day.
II. There shall be no restriction on the use of machinery, tools or appliances.
III. There shall be no restriction on the use of any raw or manufactured material, except prison made.
IV. No person shall have the right to interfere with workers during working hours.
V. The use of apprentices shall not be prohibited.
VI. The foreman shall be the agent of the employer.
VII. The worker is at liberty to work for whomever he or she sees fit but such worker shall demand and receive the wages agreed upon in the collective bargaining agreement covering the particular trade or craft under any circumstances.
VIII. The employer is at liberty to employ and discharge for just cause whomsoever the employer sees fit.

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ARTICLES OF AGREEMENT

ARTICLE I

Therefore, with the Preamble and Declaration of Principles as part of and fundamental to this Agreement, the parties hereto hereby agree that there shall be no lockout by any employer, or strikes, stoppage, or the abandonment of work either individually or collectively, by concerted or separate action by any union without arbitration of any jurisdictional dispute as hereinafter provided.

ARTICLE II

The parties hereto hereby agree that in the manner herein set forth, they and the parties whom they represent will submit to arbitration all jurisdictional disputes that may arise between them and any misunderstanding as to the meaning or intent of all, or any part, of this Agreement, and they further agree that work will go on undisturbed during such arbitration, and that the decision of the arbitrator shall be final and binding on the parties hereto as provided in Article VI.

ARTICLE III

Paragraph 1. Should a Union affiliated with the Council abandon its work without first submitting any jurisdictional dispute to arbitration as provided herein, or should any employees whom it represents individually or collectively, or by separate or concerted action, leave the work, the employer shall have the right to fill the places of such workers with workers who will agree to work for the employer, and the Union shall not have the right to strike, or abandon the work, because of the employment of such workers.

Paragraph 2. The Union shall have the right to take the employees whom it represents from the work for the purpose of collecting wages and fringe benefits due, but such matter shall immediately be referred to arbitration. Should there be a dispute as to the amount due, the matter shall be first referred to arbitration as herein set forth.

Paragraph 3. The parties recognize the importance of having all work performed in a satisfactory manner by competent craftsmen. Because the unions affiliated with the Council have through apprenticeship and other training programs consistently striven to create an adequate supply of such skilled workers, and because it is desirable that the unions continue to do so, the Association, for itself and for each employer whom it represents agrees, to the extent permitted by law, that it will contract or subcontract any work to be done at the site of the construction, alteration, painting, or repair of a building, structure, or other work, only with or to a contractor who is a party to a collective bargaining agreement with a union affiliated with the Council and, accordingly, is bound by all the terms and provisions of this Standard Agreement.

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ARTICLE IV

The parties recognize the importance of having available and furnishing at all times during the life of this Agreement sufficient skilled workers, capable of performing the work of their trade, and to constantly endeavor to improve the ability of such workers and further to have in the making, through apprenticeship training, workers who can enter the trade properly equipped to perform the work, and to the extent possible, the parties agree to do everything within their power to cooperate in carrying out these purposes. Joint apprenticeship committees shall have the right to maintain schools for the training of apprentices registered under the terms of the particular collective bargaining agreement involved and such apprentices shall be considered skilled and qualified journeymen when adjudged competent by a committee composed of the members of the parties to the particular collective bargaining agreement involved. However, this article shall not be construed to disturb present systems wherein the labor organization which is a party to the particular collective bargaining agreement involved compels apprentices to attend trade school.

ARTICLE V

A Joint Conference Board is hereby created by agreement between the Association and the Council, which shall be binding upon the members and affiliates of each, and it is hereby agreed by the parties hereto, together with their members and affiliates, that they will recognize the authority of said Joint Conference Board and that its decisions shall be final and binding upon them as provided in Article VI. The administration of the Joint Conference Board shall be executed by the Secretary of the Board. All normal operating and all extraordinary expenses shall be borne equally.

ARTICLE VI

The Joint Conference Board shall be responsible for the administration of this Agreement. The primary concern of the Joint Conference Board shall be the adjustment of jurisdictional disputes by arbitrators selected by the Board. Decisions rendered by any arbitrator under this Agreement appointed by the Joint Conference Board relating to jurisdictional disputes shall be only for the specific job under consideration and shall become effective immediately and complied with by all parties. In rendering a decision, the Arbitrator shall determine:

a) First whether a previous Agreement of Record or applicable agreement, including a disclaimer agreement, between the National or International Unions to the dispute governs.

b) Only if the Arbitrator finds that the dispute is not covered by an appropriate or applicable Agreement of Record or agreement between the National or International Unions to the dispute, he shall then consider the established trade practice in the industry and prevailing practice in the locality. Where there is a

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previous Decision of Record governing the case, the Arbitrator shall give equal weight to such Decision of Record, unless the prevailing practice in the locality in the past ten years favors one craft. In that case, the Arbitrator shall base his decision on the prevailing practice in the locality. Except, that if the Arbitrator finds that a craft has improperly obtained the prevailing practice in the locality through raiding, the undercutting of wages or by the use of vertical agreements, the Arbitrator shall rely on the Decision of Record and established trade practice in the industry rather than the prevailing practice in the locality.

c) In order to determine the established trade practice in the industry and prevailing practice in the locality, the Arbitrator may rely on applicable agreements between the Local Unions involved in the dispute, prior decisions of the Joint Conference Board for specific jobs, decisions of the National Plan and the National Labor Relations Board or other jurisdictional dispute decisions, along with any other relevant evidence or testimony presented by those participating in the hearing.

d) Only if none of the above criteria is found to exist, the Arbitrator shall then consider that because efficiency, cost or continuity and good management are essential to the well being of the industry, the interests of the consumer or the past practices of the employer shall not be ignored.

Agreements of Record are those agreements between National and International Unions that have been "attested" by the predecessor of the National Plan and approved by the AFL-CIO Building and Construction Trades Department and are contained in the Green Book. Such Agreements of Record are binding on employers stipulated to the Plan for the Settlement or Jurisdictional Disputes in the Construction Industry (the "National Plan"), the National Plan's predecessor joint boards or stipulated to the Joint Conference Board. Agreements of Record are applicable only to the crafts signatory to such agreements. Decisions of Record are decisions by the National Arbitration Panel or its predecessors and recognized under the provisions of the Constitution of the AFL-CIO Building and Construction Trades Department and the National Plan. Decisions of Record are applicable to all crafts.

The Arbitrator shall set forth the basis for his decision and shall explain his findings regarding the applicability of the above criteria. If lower-ranked criteria are relied upon, the Arbitrator shall explain why the higher-ranked criteria were not deemed applicable. The Arbitrator's decision shall only apply to the job in dispute. Such decisions of the Arbitrator shall be final and binding subject only to an appeal, if such an appeal is available under conditions determined by the Building and Construction Trades Department of the American Federation of Labor and Congress of Industrial Organizations under the National Plan or any successor plan for the settlement of jurisdictional disputes.

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ARTICLE VII

This is an arbitration agreement and the intent of this agreement is that all unresolved jurisdictional disputes must be arbitrated under the authority of the Joint Conference Board and that the decisions, subject to the right of appeal provided in Article VI, shall be final and binding upon the parties hereto and upon their affiliates and the members of such affiliates, and that there shall be no abandonment of the work during such arbitration or in violation of the arbitration decision. The Joint Conference Board shall administer the neutral arbitration system of this agreement. Any party bound to this Agreement through a collective bargaining agreement with any Local Union affiliated with the Council shall be bound to this Agreement for all jurisdictional disputes that may arise between any Local Unions affiliated with the Council. Employers bound to this Agreement shall require that this Agreement be a part of all agreements with contractors or subcontractors covering work performed by any trade or craft affiliated with the Council. All parties to this Agreement release the Board from any liability arising from its action or inaction and covenant not to sue the Board. Any damages incurred by the Board for any breach of this covenant shall include, but are not limited to, the Board's costs, expenses and attorneys fees incurred as a result of said legal proceedings.

Paragraph 1 - The annual meeting of the Joint Conference Board shall be held in June, unless another date is agreed upon by the parties.

Paragraph 2 - The parties hereto shall designate an equal number of members who shall serve upon the Joint Conference Board. The members of the Board shall annually be certified by the Association and the Council in written communications addressed to the Board by the President and Secretary of the respective organizations. Each year the Joint Conference Board shall select a Chairman from among its members. The Joint Conference Board shall also select from among its members a Vice Chairman. The Board shall also select a Secretary. All members shall serve for one year or until their successors have been selected.

Paragraph 3 - At the annual meeting, the Association and Council shall each name at least five and up to ten impartial arbitrators.

Paragraph 4 - In the event the Chairman or Vice-Chairman is unable to serve by reason of resignation, death or otherwise, a successor may be selected for the remainder of the term by the party which made the original selection. Should a member of the Joint Conference Board be unable to serve, because of resignation, death or any other reason, the successor shall be selected by the Association or Council respectively in which such member holds membership.

Paragraph 5 - Should any member of the Board for any reason be unable to attend any meeting of the Board, the President of his respective organization shall be empowered to name a substitute for each absentee for that meeting.

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Paragraph 6 - Meetings of the Board may be called at any time by the Chairman, Secretary or three members of the Board. Seventy-two hours written notice of such meeting must be given to each member of the Board.

Paragraph 7 - Twelve members of the Board, six from each of the parties, present at the executive session, shall be a quorum for the transaction of business. The Chairman, or Vice-Chairman, when presiding, shall not be counted for the purpose of determining a quorum. Whenever the number of members present from each party at the executive session are unequal, he party with the fewer members present shall be entitled to cast a total number of votes equal to the number of the present members of the other party with the additional votes of said party being cast in accordance with the vote of the majority of its members who are present.

Paragraph 8 - If it is brought to the attention of the Chairman that any member (other than the Chairman) is not impartial with respect to a particular matter before the Board, the Chairman may excuse such member from the executive session if the Chairman concludes that such member has a conflict of interest with respect to such matter.

Paragraph 9 - Should a jurisdictional dispute arise between the parties hereto, among or between any members or affiliates of the parties hereto, or among or between any members or affiliates of the parties hereto and some other body of employers or employees, the disposition of such dispute shall be as follows:

a) The crafts involved shall meet on the jobsite or a mutually agreed location to resolve the jurisdictional dispute.

b) If the said dispute is not settled it shall be submitted immediately in writing to the Secretary of the Joint Conference Board. Unless agreed to in writing (correspondence, email, etc.) by the trades involved in the dispute, the trades and contractors shall make themselves available to meet within 72 hours at a neutral site with representatives of the Chicago & Cook County Building & Construction Trades Council and the Construction Employers' Association to resolve this jurisdictional issue.

c) Failure to meet within seventy-two (72) hours of receiving written notice or e-mail to the meetings contemplated in "a" or "b" above will automatically advance the case to the next level of adjudication.

d) Should this jurisdictional issue be unresolved , the matter shall, within 72 hours not counting Saturday, Sunday and Holidays, hereafter, be referred to an Arbitrator for adjudication if requested in writing by any party. The Arbitrator shall hear the evidence and render a prompt decision within forty-eight (48 hours) of the conclusion of the hearing based on the criteria in Article VI. The arbitrator chosen shall be randomly selected based on availability from the list

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submitted in Article VII Paragraph 3. The decision of the Arbitrator shall be subject to appeal only under the terms of Article VI. The written decision shall be final and binding upon all parties to the dispute and may be a short form decision. The fees and costs of the arbitrator shall be divided evenly between the contesting parties except that any party wishing a full opinion and decision beyond the short form decision shall bear the reasonable fees and costs of such full opinion.

e) Should said dispute not be so referred by either or both of the parties, the Joint Conference Board may, upon its own initiative, or at the request of others interested, take up and decide such dispute, and its decision shall be final and binding upon the parties hereto and upon their members and affiliates as provided for in Article VI.

In either circumstance all of the parties are committed to a case until it is finalized, even if there is an appeal. However, in cases of jurisdictional or other disputes between a union and another union, which is a member of the same International Union, the matter in dispute shall be settled in the manner set forth by their International Constitution, but there shall be no abandonment of the work pending such settlement.

Paragraph 10 - All interested parties shall be entitled to make presentations to the Arbitrator. Any interested party present at the hearing, whether making a presentation or not, by such presence shall be deemed to accept the jurisdiction of the arbitrator and to agree to be bound by its decision and further agrees to be bound by the Standard Agreement, for that case only if not otherwise so bound.

Paragraph 11 - Upon approval of the Arbitrator other parties not directly involved in the dispute may be invited to be present during the presentation and discussion portions of an arbitration hearing. Attorneys shall not be permitted to attend or participate in any portion of a hearing.

Paragraph 12 – At no time shall any party to a pending dispute unilaterally or independently contact the Arbitrator assigned to hear the case. All inquiries must be submitted to the Secretary of the Joint Conference Board.

Paragraph 13 - The Joint Conference Board may also serve as a board of arbitration in other disputes, including wages, but only when requested to do so by all parties involved in the particular dispute or controversy. It is not the intention of this Agreement that the Joint Conference Board shall take part in such disputes except by mutual consent of all parties involved.

ARTICLE VIII

Paragraph 1 - The duly authorized representatives of members of affiliates of either party hereto, if having in their possession proper credentials, shall be permitted to visit jobs

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during working hours, to interview the contractor or the workers, but they shall in no way interfere with the progress of the work.

Paragraph 2 - The handling of tools, machinery and appliances necessary in the performance of the work covered by a particular collective bargaining agreement, shall be done by journeymen covered by such agreement and by helpers and apprentices in that trade, but similar tools, machinery and appliances used by other trades in the performance of their work shall be handled in accordance with the particular collective bargaining agreement of that trade.

Paragraph 3 - In the interest of the public economy and at the discretion of the employer or foreman, all small tasks covered by a particular collective bargaining agreement may be done by workers or laborers of other trades, if mechanics or laborers of this trade are not on the building or job, but same are not to be of longer duration than one-half hour in any one day. The Joint Conference Board may render a decision involving a composite crew.

Paragraph 4 - It is fundamental to the Standard Agreement that all members and affiliates of the parties to this Agreement be stipulated to the Standard Agreement and the Joint Conference Board. All current members of the Chicago and Cook County Building and Construction Trades Council, and their affiliates, by this Agreement are stipulated to the Standard Agreement and Joint Conference Board for the term of the current Standard Agreement. The area labor agreements of the members and affiliates of the parties setting forth language stipulating those parties to the Standard Agreement and Joint Conference Board shall be filed with the Secretary of the Joint Conference Board annually, at the time of the Joint Conference Board appointments. Current trade or craft agreements will prevail as interim agreements in the event labor negotiations are incomplete or in process at the time of the annual meeting.

Paragraph 5 - All members and affiliates of the parties with labor agreements containing language stipulating those parties to the Standard Agreement and Joint Conference Board shall remain stipulated for the term of the current Standard Agreement. Any members or affiliates of the parties who negotiate language stipulating the parties to the Standard Agreement and/or the Joint Conference Board in their area labor agreement shall remain stipulated for the term of the current Standard Agreement. Any Association that incorporates Standard Agreement and/or Joint Conference Board stipulation language into their collective bargaining agreement will automatically have representation on the Joint Conference Board.

Paragraph 6 - Only those crafts with stipulation language in their area labor agreements will be allowed to bring jurisdictional dispute cases to the Joint Conference Board. Those crafts without stipulation language in their area labor agreements will be allowed to participate if a jurisdictional dispute case is brought against their craft and will have the right to appeal any decision, if such an appeal is available, as provided in Article VI of this Agreement.

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Paragraph 7 - This agreement applies only to work performed within Cook County, Illinois.

Paragraph 8 - As herein before provided in Article VII, decisions or awards as to jurisdictional claims and decisions determining whether or not said decisions or awards have been violated rendered by the Joint Conference Board shall be final, binding and conclusive on all the parties hereto, on all of their members and affiliates, and on all employers subject only to the right of appeal herein provided for in Article VI.

Paragraph 9 - To further implement the decision of the Joint Conference Board, it is agreed that any party hereto, any of their members or affiliates, and any employer may at any time file a Verified Complaint in writing with the Joint Conference Board alleging a violation of a decision or award previously made. The Board shall thereupon set a hearing, to be held within three days of receipt of the Verified Complaint with respect to the alleged violation, and shall notify all interested parties of the time and place thereof. An Arbitrator selected pursuant to Article VII, Paragraph 9(c) shall conduct a hearing at the time and place specified in its notice. All parties shall be given an opportunity to testify and to present documentary evidence relating to the subject matter of the hearing within forty-eight (48) hours after the conclusion thereof, the Arbitrator shall render a written decision in the matter and shall state whether or not there has been a violation of its prior decision or award. Copies of the decision shall be served, by certified mail or by personal service, upon all parties hereto.

Paragraph 10 - Should the Arbitrator determine that there has been a violation of the Board's prior decision or award, the Arbitrator shall order immediate compliance by the offending party or parties. The Arbitrator may take one or more of the following courses of action in order to enforce compliance with the Board's decision:

a) The Arbitrator may assess liquidated damages not to exceed $5,000 for each violation by individual members of, or employees represented by the parties hereto, and may assess liquidated damages not to exceed $10,000 for each violation by either party hereto, or any of its officers or representatives. If a fine is rendered by the Arbitrator, it should be commensurate with the seriousness of the violation having a relationship to lost hours for the Unions and lost efficiency for the employer. Each of the parties hereto hereby agrees for itself, and its members, to pay to the other party within thirty days any sum, or sums, so assessed because of violations of a decision or award by itself, its officers, or representatives, or its member or members. Should either party to this agreement, or any of its members fail to pay the amount so assessed within thirty days of its assessment, the party or member so failing to pay shall be deprived of all the benefits of this agreement until such time as the matter is adjusted to the satisfaction of the Arbitrator.

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b) It may order cessation of all work by the employers and the employees on the job or project involved.

Paragraph 11 - All Notices under this Agreement shall be in writing and sent by the Administrator of the Joint Conference Board via facsimile or email. For all notifications to affiliates of the Chicago & Cook County Building and Construction Trades Council, the Administrator may rely up the facsimile numbers, addresses and email addresses in the current directory of the Council. For notifications to all contractors and subcontractors, the Administrator may rely on corporate information on the Illinois Secretary of State website or other appropriate databases. Original Notices of all Joint Conference Board decisions will be sent to each of the parties involved via certified mail. The notice provisions shall not include Saturday, Sunday or legal holidays.

Paragraph 12 - The following days shall be recognized as legal holidays: New Years Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

Paragraph 13 - The Board shall have no authority to undertake any action to enforce its decision after a hearing beyond informing the affected parties of its decision. Rather, it shall be the responsibility of the prevailing party to seek appropriate enforcement of a decision, including findings, orders or awards of the Board determining non-compliance with a prior award or decision. The prevailing party in any enforcement proceeding shall be entitled to recover its costs and attorneys fees from the non-prevailing party. In the event the Board is made a party to, or is otherwise required to participate in any such enforcement proceeding for whatever reason, the non-prevailing party shall bear all costs, attorneys fees, and any other expenses incurred by the Board in those proceedings.

Paragraph 14 - In establishing the jurisdiction of the Joint Conference Board over all parties to the dispute, the primary responsibility for the judicial determination of the arbitrability of a dispute and the jurisdiction of the Joint Conference Board shall be borne by the party requesting the Board to hear the underlying jurisdictional dispute. If all of the parties to the dispute do not attend the arbitration hearing or otherwise agree in writing that the parties are stipulated to the Joint Conference Board and Standard Agreement, the affected party or parties may proceed at the Joint Conference Board even in the absence of one or more parties to the dispute. In such instances, the issue of jurisdiction is an additional item that must be determined in the first instance by the Arbitrator who shall set forth basis of his determination in his decision. The Joint Conference Board may participate in any proceedings seeking a declaration or determination that the underlying dispute is subject to the jurisdiction and process of the Joint Conference Board. In any such proceedings, the non-prevailing party and/or the party challenging the jurisdiction of the Joint Conference Board shall bear all the costs, expenses and attorneys fees incurred by the Board in establishing its jurisdiction. The provision of Paragraph 13 regarding obtaining attorney fees shall apply.

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Paragraph 15 - It is agreed by the parties hereto that this agreement shall remain in full force and effect until June 1, 2020 unless otherwise amended by agreement of parties.

IN WITNESS WHEREOF, the parties have caused this document to be executed at Chicago, Illinois this 28th day of May, 2015.

CONSTRUCTION EMPLOYERS' ASSOCIATION

DocuSigned by:
Charles Usher, Sr.
AF477AAFA0084CD...

BY Charles M. Usher

CHICAGO & COOK COUNTY BUILDING & CONSTRUCTION TRADES COUNCIL

DocuSigned by:
Tom Villanova
A3CD8066A9D49...

BY Thomas Villanova

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Contract No. _____

CERTIFICATE OF COMPLIANCE
WITH MULTI-PROJECT LABOR AGREEMENT (MPLA)

I _____ (name of Company) hereby acknowledge that I have read the Metropolitan Water Reclamation District of Greater Chicago's 2017 Multi Project Labor Agreement (MPLA). I certify that my company and all subcontractors are in compliance with the MPLA in that my company and all subcontractors agree to be bound by and operate under a current collective bargaining agreement with a union or labor organization affiliate with the AFL-CIO Building Trades Department and the Chicago and Cook County Building and Construction Trades Council , or their affiliates which have jurisdiction over the work to be performed pursuant to this Contract, (hereinafter referred to as a "participating trade group") for all applicable work.

My company is currently a signatory with the following trade groups:

(e.g. Operating Engineers 150) _____

_____

If bidder is not currently signatory with a participating union or labor organization, complete one of the following:

____ The work to be performed by my company will occur at the company's facility and is exempt from the application of the MPLA. All other work for which the MPLA is applicable will be performed by signatories to the following participating trade groups: _____

_____
(Identify all such participating unions or labor organizations. Attach a separate sheet if necessary).

____ I commit to comply with the MPLA by entering into a collective bargaining agreement with the following participating trade group(s): _____

_____
(Identify all such participating unions or labor organizations. Attach a separate sheet if necessary).

_____
Name of Company

By: _____
Signature of Authorized Officer

Attest: _____
Secretary

Dated: _____

Revised: October 2019

MPLA-CC-49

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EXHIBIT 4

AFFIRMATIVE ACTION ORDINANCE, REVISED APPENDIX D

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AFFIRMATIVE ACTION ORDINANCE

REVISED APPENDIX D

OF THE

METROPOLITAN WATER RECLAMATION DISTRICT

OF GREATER CHICAGO

December 31, 2022

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AFFIRMATIVE ACTION ORDINANCE
REVISED APPENDIX D
OF THE
METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO

Section 1. **Declaration of Policy**

It is the policy of the Metropolitan Water Reclamation District of Greater Chicago ("District") to ensure competitive business opportunities for minority and women-owned business enterprises in the award of and performance on District contracts; to prohibit discrimination on the basis of race, sex, color, disability, age, religion, national origin, sexual orientation, veteran status, or any other legally protected characteristic in the award of or participation on District contracts; and to abolish barriers to full participation on District contracts by all; and

The District, pursuant to its authority under 70 ILCS 2605/11.3, is committed to establishing procedures to implement this policy, as well as state and federal regulations, to assure the utilization of minority and women-owned business enterprises in a manner consistent with constitutional requirements; and

The District is committed to creating equal opportunities for minority and women-owned businesses to participate in the award and performance on District contracts.

Section 2. **Findings**

Whereas, the Supreme Court of the United States in *City of Richmond v. J.A. Croson Co.*, 488 U.S. 469 (1989), enunciated certain standards that are necessary to maintain effective contracting affirmative action programs in compliance with constitutional requirements; and

Whereas, the District is committed to implementing its affirmative action program in conformance with the decision in *Croson* and its progeny; and

Whereas, in furtherance of this commitment, the Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago ("Board of Commissioners") directed District employees and its outside consultant in 1989 to conduct an investigation into the scope of any discrimination in the award of and participation on District construction contracts, as well as in the construction industry in Metropolitan Chicago, the extent to which such discrimination or the effects thereof has denied and continues to deny minority and women's business enterprises equal opportunity to participate on District contracts and to recommend the appropriate affirmative action steps to be taken to eliminate any such discrimination and its continuing effects; and

Whereas, on March 15, 1990, the District adopted its Revised Appendix D, Notice of Requirements for Affirmative Action Program to Ensure Minority, Small, and Women's Business Participation ("Appendix D"), which was later amended on June 21, 2001; and

Whereas, in 2003, the United States District Court in *Builders Association of Greater Chicago v. City of Chicago*, 298 F. Supp.2d 725 (N.D. Ill. 2003) held that the evidence introduced at trial demonstrated that past and current discriminatory practices continue to place MBE and

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WBE businesses at a competitive disadvantage in the award of governmental contracts and such practices have and continue to impede the growth and success of MBEs and WBEs; and

Whereas, a 2004 study of the Metropolitan Chicago Construction Industry by Timothy Bates, Professor at Wayne State University, concluded that the evidence that African American, Hispanic, and women-owned businesses have been, and continue to be disadvantaged in the construction industry is strong, has remained consistent, and that compelling evidence indicates that African American, Hispanic, and women-owned businesses face barriers in the Metropolitan Chicago construction industry greater than those faced by white males; and

Whereas, a 2005 study of the Metropolitan Chicago construction industry by David Blanchflower, Professor of Economics at Dartmouth College, determined that discrimination against Asian-owned businesses existed in the business community in areas of business financing and construction wages and that this, together with evidence of individual discrimination against Asian-owned construction companies, leads to the conclusion that discrimination against Asian-owned businesses continues to exist in the Metropolitan Chicago construction industry; and

Whereas, in 2005, the United States District Court held in *Northern Contracting, Inc. v. Illinois Department of Transportation*, 2005 U.S. Dist. LEXIS 19868 (N.D. Ill. Sept. 8, 2005) that there is strong evidence of the effects of past and current discrimination against MBEs and WBEs in the construction industry in the Chicago area. The trial court's decision was affirmed in *Northern Contracting, Inc. v. Illinois Department of Transportation*, 473 F.3d 715 (7th Cir. 2007); and

Whereas, a 2006 Cook County, Illinois report entitled, "Review of Compelling Evidence of Discrimination Against Minority-and Women-Owned Business Enterprise in the Chicago Area Construction Industry and Recommendations for Narrowly Tailored Remedies for Cook County, Illinois", concluded that there is extensive evidence of discrimination against MBEs and WBEs in the Chicago area construction marketplace, and the participation of MBEs and WBEs in the County's construction Prime Contracts and Subcontracts is below the availability of such businesses; and

Whereas, in 2006, the District commissioned a report on discrimination of and barriers to construction opportunities in the Chicago area market for minority and women-owned businesses and recommendations for District actions to reduce such issues, which found continuing disparities in the Chicago area construction market; and

Whereas, in 2010, Cook County commissioned a new report, entitled "The Status of Minority and Women-Owned Business Enterprises Relevant to Construction Activity In and Around Cook County, Illinois", which found that MBEs and WBEs were not utilized in all industries in proportion to their availability; and

Whereas, in 2010, the United States Department of Justice produced a report to Congress, entitled "Compelling Interest for Race- and Gender-Conscious Federal Contracting Programs: An Update to the May 23, 1996 Review of Barriers to Minority- and Women-Owned Businesses," that updated the original basis for the United States Department of Transportation's DBE program and concluded that discriminatory barriers continue to impede the ability of MBEs and WBEs to compete with other businesses on a fair and equal footing in government contracting markets, including in the construction industry; and

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Whereas, in 2012, the District commissioned a report on barriers to construction opportunities in the Chicago area market and recommendations for District efforts to reduce such barriers, which found continuing disparities in the Chicago area construction market; and

Whereas, in 2014, the District commissioned a Disparity Study, conducted by Colette Holt & Associates, on barriers to equal opportunities in the construction industry in the District's geographic and industry market areas and recommendations for District efforts to reduce such barriers, which found continuing disparities in the District's market area; and

Whereas, in 2015, the trial court in *Midwest Fence, Corp. v. U.S. Department of Transportation et al*, 2015 WL 139676 (N.D. Ill. March 24, 2015) held that discrimination continues to impede full and fair opportunities for disadvantaged business enterprises in the Illinois construction industry and this judgment was affirmed in 2016 by the Seventh Circuit Court of Appeals at 840 F.3d. 932; and

Whereas, in 2021, the District again commissioned a Disparity Study, conducted by Colette Holt & Associates, which likewise found that there continues to be barriers to equal opportunities for construction firms owned by minorities and women to compete for District contracts, both as Prime Contractors and Subcontractors; and

Whereas, based upon the 2021 Disparity Study, the District has determined that it has a compelling interest in continuing to implement narrowly tailored remedies to redress discrimination against minority and women-owned businesses in its market such that it will not function as a passive participant in the market failure of discrimination; and

Whereas, the Affirmative Action Program, adopted by the District on July 20, 1978 and amended from time to time, is hereby modified to further continue to ameliorate the effects of racial and gender discrimination in the marketplace; and

Whereas, the remedies adopted herein by the District will not overly burden non-MBE and non-WBE businesses in the award of District contracts; and

Whereas, the Board of Commissioners will periodically review minority and women-owned participation in contracts awarded by the District to ensure that the District continues to have a compelling interest in remedying discrimination and that the measures adopted herein remain narrowly tailored to accomplish that objective;

Now, therefore, the District's Board of Commissioners hereby adopts this Revised Appendix D:

Section 3. **Purpose and Intent**

The purpose and intent of this Affirmative Action Ordinance Revised Appendix D ("Revised Appendix D") is to mitigate the present effects of discrimination on the basis of race, ethnicity, or sex in opportunities to participate on the District's contracts as either a Prime Contractor or a Subcontractor and to achieve equitable utilization of minority and women-owned business enterprises on District contracts.

Section 4. **Coverage**

The following provisions, together with relevant forms, will apply and be appended to every Construction Contract awarded by the District where the total approved expenditure is in

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excess of one hundred thousand dollars ($100,000.00), except contracts approved by the Board of Commissioners pursuant to Sections 11.4 and 11.5 of the District's Purchasing Act (70 ILCS 2605).

Section 5. **Definitions**

The meaning of these terms in this Revised Appendix D are as follows:

(a) "Administrator" means the District's Affirmative Action Program Administrator.

(b) "Affiliate" of an individual or entity means an individual or entity that directly or indirectly through one or more intermediaries, controls or is controlled by, or is under common control with, the individual or entity. In determining affiliation, the District will consider all appropriate factors, including common ownership, common management, and contractual relationships.

(c) "Annual Aspirational Goals" means the targeted levels established by the District for the annual aggregate participation of MBEs and WBEs on District Construction Contracts.

(d) "Bidder" means an individual, a business enterprise, including a sole proprietorship, a partnership, a corporation, a not-for-profit corporation, a limited liability company, or any other entity which has submitted a bid on a District contract.

(e) "Books and Records" include, but are not limited to, payroll records, bank statements, bank reconciliations, accounts payable documents, account receivable documents, ledgers, all financial software, and all employer business tax returns.

(f) "Calendar Days" in computing any period of time described herein, the day from which the period begins to run will not be counted (*e.g.*, if a notice is issued on a Monday, the countdown of days starts on Tuesday). When the last day of the period is a Saturday or Sunday, the period does not extend to the next day. Only in instances where District offices are closed in observance of a federal holiday, will the period extend to the next day.

(g) "Construction Contract" means any District contract, agreement, or amendment thereto, providing for a total expenditure in excess of one hundred thousand dollars ($100,000.00) for the construction, demolition, replacement, major repair or renovation, and maintenance of real property and improvement thereon or sludge hauling, and any other construction related contract which the District deems appropriate to be subject to this Revised Appendix D.

(h) "Commercially Useful Function" means responsibility for the execution of a distinct element of the work of the contract, which is carried out by performing, managing, and supervising the work involved, or fulfilling responsibilities.

(i) "Contract Goals" means the numerical percentage goals for MBE or WBE participation to be applied to an eligible District Construction Contract subject to this Revised Appendix D for the participation of MBEs and WBEs based upon the scope of work of the contract, the availability of MBEs and WBEs to meet the goals, and the District's progress towards meeting its annual MBE and WBE goals.

(j) "Dealer" means a business that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for performance of the contract are bought, kept in stock, and regularly sold to the public in the usual course of business.

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To be a dealer, the business must engage in, as its principal business, and under its own name, the purchase and sale of the products in question. A business that operates as a dealer in bulk items such as steel, cement, gravel, stone, and petroleum products need not keep such products in stock, if it owns or operates distribution equipment. Brokers and packagers do not meet the definition of dealers.

(k) "Director" means the District's Director of Procurement and Materials Management, formerly known as the Purchasing Agent.

(l) "Economically Disadvantaged" means an individual with a Personal Net Worth of less than $2,000,000.00, indexed annually for the Chicago Metro Area Consumer Price Index, published by the United States Department of Labor, Bureau of Labor Standards, beginning January 2008.

(m) "Executive Director" means the chief administrative officer of the District, formerly known as the General Superintendent.

(n) "Expertise" means demonstrated knowledge, skills, or ability to perform in the field of endeavor in which certification is sought by the business as defined by normal industry practices, including licensure, where required.

(o) "Good Faith Efforts" means honest, fair, and commercially reasonable actions undertaken by a Prime Contractor to meet the MBE or WBE Contract Goal, which by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the Contract Goals.

(p) "Hearing Officer" is an attorney licensed to practice in the State of Illinois and appointed by the Board of Commissioners to conduct hearings regarding a Prime Contractor's or Subcontractor's compliance or non-compliance with this Revised Appendix D.

(q) "Joint Venture" means an association of two or more individuals, or any combination of types of business enterprises and individuals numbering two or more, proposing to function as a single for profit business enterprise, in which each Joint Venture partner contributes property, capital, efforts, skill, and knowledge, and in which the certified business is responsible for a distinct, clearly defined portion of the work of the contract and whose share in the capital contribution, control, management, risks, and profits of the Joint Venture are equal to its ownership interest. Joint Ventures must have an agreement in writing specifying the terms and conditions of the relationships between the partners, their relationship, and detailing their respective responsibilities on the contract.

(r) "Job Order Contract" or "JOC" means a business, fixed price, indefinite quantity contract designed to complete a large number of construction projects quickly.

(s) "Local Business" means a business located within the District's geographic market area as established by the 2021 Disparity Study, namely the counties of Cook, DuPage, Kane, Lake, McHenry, or Will, in the State of Illinois.

(t) "Manufacturer" means a business that operates or maintains a factory or establishment that produces on the premises the materials or supplies obtained by the Bidder. Brokers and packagers do not meet the definition of Manufacturer.

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(u) "Minority-owned Business Enterprise" or "MBE" means a local small business entity, including a sole proprietorship, partnership, corporation, limited liability company, Joint Venture, or any other business or professional entity, which is at least fifty-one (51) percent owned by one or more Socially and Economically Disadvantaged individuals who are members of one or more minority groups, or, in the case of a publicly held corporation, at least fifty-one (51) percent of the stock of which is owned by one or more members of one or more minority groups, and whose management, policies, major decisions, and daily business operations are controlled by one or more Minority Individuals.

(v) "Minority Individual" means a natural person who is a citizen of the United States or lawful permanent resident of the United States and one of the following:

(i) African American – An individual having origins in any of the Black racial groups of Africa and is regarded as such by the African American community of which the individual claims to be a part.

(ii) Hispanic American – An individual having origins from Mexico, Puerto Rico, Cuba, and South or Central America and is regarded as such by the Hispanic community of which the individual claims to be a part, regardless of race.

(iii) Asian American – An individual having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands or the Northern Marianas, and is regarded as such by the Asian American community of which the individual claims to be a part.

(iv) Native American – An individual having origins in any of the original peoples of North America and who is recognized through tribal certification as a Native American by either a tribe or a tribal organization recognized by the government of the United States of America.

(v) Individual members of other groups whose participation is required under state or federal regulations or by court order.

(vi) Individual members of other groups found by the District to be Socially Disadvantaged by having suffered racial or ethnic prejudice or cultural bias within American society, without regard to individual qualities, resulting in decreased opportunities to compete in the District's marketplace or to do business with the District.

(w) "Personal Net Worth" means the net value of the assets of an individual after total liabilities are deducted. An individual's Personal Net Worth does not include the individual's ownership interest in a business entity seeking to do business with the District or other certified MBE or WBE, provided that the other business is certified by a governmental agency that meets the District's eligibility criteria or the individual's equity in his or her primary place or residence. As to assets held jointly with his or her spouse or recognized civil partner, an individual's Personal Net Worth includes only that individual's share of such assets. An individual's net worth also includes the present value of the individual's interest in any vested pension plans, individual retirement accounts, or other

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retirement savings or investment programs, less the tax and interest penalties that would be imposed if the asset were distributed at the present time.

(x) "Prime Contractor" means a contractor that is awarded a District contract and is responsible for the completion of the entire District contract, including purchasing all materials, hiring and paying Subcontractors, and coordinating all the work.

(y) "Program" means the program provisions established by this Revised Appendix D.

(z) "Small Business Enterprise" means a small business as defined by the United States Small Business Administration (SBA), pursuant to the business size standard found in 13 CFR Part 121, that is relevant to the scope of work the business seeks to perform on District contracts. A business is not an eligible SBE in any calendar fiscal year in which its gross receipts, averaged over the business' previous five (5) fiscal years, exceed the size standards of 13 CFR Part 121.

(aa) "Socially Disadvantaged" means a Minority Individual or woman who has been subjected to racial, ethnic, or gender prejudice or cultural bias within American society because of his or her identity as a member of a group and without regard to individual qualities. Social Disadvantage must stem from circumstances beyond the individual's control. A Socially Disadvantaged individual must be a citizen or lawfully admitted permanent resident of the United States.

(bb) "Subcontractor" means a party that enters into a subcontract agreement with a District Prime Contractor to perform work or provide materials on a District project.

(cc) "Tier" refers to the relationship of a Subcontractor to the Prime Contractor. A Subcontractor having a contract with the Prime Contractor, including a material supplier to the Prime Contractor, is considered a "first-tier Subcontractor," while a Subcontractor's Subcontractor is a "second-tier Subcontractor", and so forth. The Subcontractor is subject to the same duties, obligations, and sanctions as the Prime Contractor under this Revised Appendix D.

(dd) "Utilization Plan" means the plan, in the form specified by the District, which must be submitted by a Bidder listing the MBEs and WBEs that the Bidder intends to use in the performance of a contract, the scope of work, and the dollar values or the percentages of the work to be performed.

(ee) "Vendor List" means the District's list of businesses that are certified as minority-owned or women-owned by the City of Chicago, the County of Cook, the State of Illinois, the Women's Business Development Center, or the Chicago Minority Business Development Council, or as a Disadvantaged Business Enterprise by the Illinois Unified Certification Program, or as a Small Disadvantaged Business by the United States Small Business Administration.

(ff) "Women-owned Business Enterprise" or "WBE" means a local small business entity which is at least fifty-one (51) percent owned by one or more Socially and Economically Disadvantaged individuals who are women, or in the case of a publicly held corporation, fifty-one (51) percent of the stock of which is owned by one or more women, and whose management and daily business operations are controlled by one or more women.

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Determination of whether a business is at least fifty-one (51) percent owned by a woman or women will be made without regard to community property laws.

Section 6. **Non-Discrimination and Affirmative Action Clause**

As a prerequisite to selection, a Prime Contractor must agree in its bid proposal for a Construction Contract subject to this Revised Appendix D to the following commitments:

(a) It will not discriminate on the basis of race, sex, color, disability, age, religion, national origin, sexual orientation, veteran status, or any other legally protected characteristic in the bid solicitation for or purchase of goods in the performance of its contract.

(b) It will actively solicit bids for the purchase or subcontracting of goods or services from qualified MBEs and WBEs.

(c) It will undertake Good Faith Efforts in accordance with the criteria established in this Revised Appendix D to ensure that qualified MBEs and WBEs are utilized in the performance of the Construction Contract and share in the total dollar value of the contract in accordance with each of the applicable Contract Goals established by the District for the participation of qualified MBEs and WBEs.

(d) It will require its Subcontractors at all Tiers to make similar Good Faith Efforts to utilize qualified MBEs and WBEs.

(e) It will maintain records and furnish to the District all requisite information and reports for monitoring of compliance with this Revised Appendix D.

(f) It will designate an individual to act as an affirmative action coordinator on its behalf to facilitate the review of all concerns related to the participation of MBEs and WBEs.

Section 7. **Race and Gender-Neutral Measures to Ensure Equal Opportunities for All Prime Contractors and Subcontractors**

The District will develop and utilize measures to encourage and facilitate the participation of all businesses engaged in District construction contracting activities. These measures will include but are not limited to:

(a) Unbundling by dividing large dollar value contracts into smaller dollar value contracts to facilitate the participation of MBEs and WBEs as Prime Contractors.

(b) Arranging solicitation times for the presentations of bids, specifications, and delivery schedules to facilitate the participation of interested Prime Contractors and Subcontractors.

(c) Providing timely information on contracting procedures, bid preparation, and specific contracting opportunities, including through an electronic system and social media.

(d) Assisting MBEs and WBEs with training seminars on the technical aspects of preparing a bid for a District contract or otherwise participating on District Contracts.

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(e) Assisting businesses in overcoming barriers such as difficulty in obtaining financing and support for business development such as accounting, bid estimation, safety requirements, and quality control.

(f) Prohibiting Prime Contractors from denying a subcontract to a MBE or WBE solely on the basis of that businesses inability to obtain the required performance bond.

(g) Limiting the amount of insurance coverage required by a Prime Contractor for a subcontract to only that which is required for the portion of work to be performed by the Subcontractor.

(h) Holding pre-bid conferences to explain the contract and to encourage Bidders to contact all available businesses about opportunities to perform as Subcontractors. The pre-bid conferences will be a mandatory requirement on all District contracts where this Revised Appendix D is applicable.

(i) Adopting prompt payment procedures, including but not limited to, requiring that Prime Contractors promptly pay Subcontractors in compliance with Section 9 of the Local Government Prompt Payment Act, 50 ILCS 505/9, and investigating complaints or charges of excessive delay in payments.

(j) Reviewing retainage, bonding, and insurance requirements to eliminate unnecessary barriers to contracting with the District.

(k) Collecting information from Prime Contractors on District Construction Contracts which detail the bids received from all Subcontractors and the expenditures to Subcontractors on District Construction Contracts.

(l) Developing a separate SBE program that is race and gender neutral which designates specific small dollar value contracts for bid only by certified SBE businesses.

(m) Maintaining information on all businesses bidding on District contracts as both Prime Contractors and Subcontractors.

(n) At the discretion of the Board of Commissioners, awarding a representative sample of District contracts without Contract Goals to determine MBE and WBE utilization in the absence of Contract Goals.

(o) Referring complaints of discrimination against MBEs and WBEs to the appropriate authority for investigation and resolution.

Section 8. **Support and Outreach**

To provide optimal support to MBEs and WBEs desiring to participate on District contracts, the Administrator will facilitate support and outreach, which may be in-person and/or virtual as conditions permit, and may include the following:

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(a) Meeting with business organizations to engage in discussions regarding difficulties experienced by their members on District contracts and effective steps to minimize those difficulties.

(b) Meeting with assist agencies and member businesses interested in working on District contracts to discuss upcoming opportunities.

(c) Meeting with new vendors to provide information regarding completion of the District's vendor application and bid documents.

(d) Meeting with Prime Contractors to collect feedback regarding their experiences under this Revised Appendix D.

(e) Participation in mandatory pre-bid conferences, as applicable.

(f) Hosting various seminars and support endeavors as the Administrator deems necessary for MBEs and WBEs to provide information on topics of interest, including financing, bonding, insurance, certification, bid estimation, safety requirements, and quality control.

Section 9. **District Roles and Responsibilities**

The District is responsible for promoting, supporting, and assisting in creating awareness of the Program such that it aides the Administrator in the implementation of the Annual Aspirational Goals, Contract Goals, and objectives of the Program. To reduce barriers to MBEs and WBEs participation on District contracts, all departments requesting bids, proposals, or any other solicitation governed by this Revised Appendix D will:

(a) Provide notification of anticipated solicitations including the following information: the scope of work, experience required, insurance requirements, budget, schedule, bid specifications, and any other relevant information no later than fourteen (14) calendar days prior to the procurement announcement.

(b) Evaluate anticipated solicitations to unbundle items or services to permit offers on quantities or scope of work less than the total requirement or the performance of discreet portions of the project, where feasible.

(c) At least fourteen (14) calendar days before a solicitation will be advertised, forward a copy of the advertisement to the Administrator to ensure appropriate Program language has been included.

(d) Ensure that all applicable provisions of the Program are included in bid specifications/proposals and contracts.

(e) Monitor contracts to ensure compliance with the Program and provide notification to the Administrator in instances where problems with compliance arise.

(f) Assist in the compilation of contract data for MBE and WBE availability and utilization.

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(g) Provide the Administrator with a copy of, or independent electronic access to, the necessary information for each contract including, but not limited to, the contract value, pre-bid/pre-proposal sign in sheets, the bid or proposal results, any contract modifications, and an executed copy of the agreement.

(h) Notify the Administrator no later than ten (10) calendar days prior to any key post-award contract meetings or issues that could affect the Prime Contractor's ability to achieve the MBE or WBE commitment, such as contract kickoff meetings, monthly meetings, or meetings to address contract performance issues affecting MBE and WBE commitments.

(i) Require that each Prime Contractor submit to the Administrator, as part of its pay request process, the required Program information in the format required to ensure an accurate accounting of MBE and WBE participation.

(j) Support the Administrator by ensuring that Prime Contractors provide all necessary documents and information to close out the contract that provides a final accounting for MBE and WBE participation on the contract.

(k) Advertise contract opportunities via the District's website, and other avenues in consultation with the Administrator, where appropriate, to maximize MBE and WBE participation.

(l) Develop and advertise forecasts of upcoming procurement opportunities, including on an annual basis.

Section 10. **Certification Eligibility**

(a) The District is a self-certifying agency. In addition to issuing certifications, the District will accept certifications from the City of Chicago, Cook County, and other governmental agencies approved by the Administrator, issued within the last two (2) years of submittal. The District will verify a business' certification to ensure that the business meets the requirements of this Revised Appendix D. Any business that has been previously certified by the City of Chicago, Cook County, or another Administrator approved governmental agency shall be able to participate in an abbreviated verification process. Details regarding the abbreviated process will be maintained on the District's website.

(b) The verification permitted in Subsection (a) may take place in advance of the bid process or during the bid process. The District will maintain an online list of verified businesses.

(c) Only businesses that meet the criteria for certification as a MBE or WBE may be eligible for credit towards meeting Contract Goals. The business applying for District certification has the burden of production and persuasion by a preponderance of the evidence at all stages of the certification process.

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(d) Only a business owned by a Socially and Economically Disadvantaged individual is eligible to participate in the Program.

(i) The business' ownership by a Socially and Economically Disadvantaged individual must be real, substantial, and continuing, going beyond *pro forma* ownership of the business as reflected in ownership documents. The owner must enjoy the customary incidents of ownership and share in the risks and profits commensurate with that ownership interest.

(ii) The contributions of capital or Expertise by the Socially and Economically Disadvantaged owner to acquire the ownership interest must be real and substantial. If Expertise is relied upon as part of a Socially and Economically Disadvantaged owner's contribution to acquire ownership, the Expertise must be of the requisite quality generally recognized in a specialized field, in areas critical to the business' operations, indispensable to the business' potential success, specific to the type of work the business performs, and documented in the business' records. The individual whose Expertise is relied upon must have a commensurate financial investment in the business.

(e) Only a business that is managed and controlled by a Socially and Economically Disadvantaged individual may be certified as a MBE or WBE.

(i) A business must not be subject to any formal or informal restrictions that limit the customary discretion of the Socially and Economically Disadvantaged owner. There can be no restrictions through corporate charter provisions, by-laws, contracts, or any other formal or informal devices that prevent the Socially and Economically Disadvantaged owner, without the cooperation or vote of any non-Socially and Economically Disadvantaged individual, from making any business decision, including making obligations or dispersing of funds.

(ii) The Socially and Economically Disadvantaged owner must possess the power to direct or cause the direction of the management and policies of the business and to make day-to-day as well as long term decisions on management, policy, operations, and work.

(iii) The Socially and Economically Disadvantaged owner may delegate various areas of the management or daily operations of the business to individuals who are not Socially and Economically Disadvantaged. Such delegations of authority must be revocable, and the Socially and Economically Disadvantaged owner must retain the power to hire and fire any such individual. The Socially and Economically Disadvantaged owner must exercise control over the business' operations, work, management, and policy.

(iv) The Socially and Economically Disadvantaged owner must have an overall understanding of managerial and technical competence, experience, and Expertise, directly related to the business' operations and work. The Socially and Economically Disadvantaged owner must have the ability to intelligently and critically evaluate information presented by other participants in the business'

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activities and to make independent decisions concerning the business' daily operations, work, management, and policymaking.

(v) If federal, state, or local laws, regulations, statutes, or District ordinance, or other legal regulations require the owner to have a particular license or other credential to own or control the business, then the Socially and Economically Disadvantaged owner must possess the required license or credential. If federal, state, or local laws, regulations, statutes, or District ordinance, or other legal regulations does not require that the Socially and Economically Disadvantaged owner possess the license or credential, and the Socially and Economically Disadvantaged owner lacks such license or credential, this information will be a factor, but is not dispositive, in determining whether the Socially and Economically Disadvantaged owner actually controls the business.

(vi) A Socially and Economically Disadvantaged owner cannot engage in outside employment or other business interests that conflict with the management of the business or prevents them from devoting sufficient time and attention to the affairs of the business, including the management and control of the business' day-to-day operations.

(f) Only an independent business may be certified as a MBE or WBE. An independent business is one whose viability does not depend on its relationship with another business. Recognition of an applicant as a separate entity for tax or corporate purposes is not sufficient to demonstrate that a business is independent. In determining whether an applicant is an independent business, the Administrator will:

(i) Evaluate relationships with non-certified businesses in such areas as personnel, facilities, equipment, financial and/or bonding support, and other resources.

(ii) Consider whether present or recent employer/employee relationships between the Socially and Economically Disadvantaged owner of the applicant for MBE or WBE certification and non-certified businesses or individuals thereby associated compromise the applicant's independence.

(iii) Examine the applicant's relationships with non-certified businesses to determine whether a pattern of exclusive or primary dealings with non-certified businesses compromises the applicant's independence.

(iv) Consider the consistency of relationships between the applicant and non-certified businesses with normal industry practice.

(g) All documentation submitted by an applicant will remain in the custody of the District pursuant to Local Records Act, 50 ILCS 205, whether or not the certification is approved.

(h) If it is determined by the Administrator that an applicant knowingly, willingly, and intentionally submitted false or misleading information during the verification process, the applicant will be referred to the appropriate law enforcement agency for investigation and prosecution, where applicable.

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(i) An applicant will be certified only for the specific types of work in which the Socially and Economically Disadvantaged owner for the MBEs and/or WBEs has the ability and Expertise to manage and control the business' operations and work.

(j) An applicant will be certified only in the specific category for which they are applying. A business that is both a MBE and WBE will not automatically be certified as both if the application is submitted only in regards to one category.

(k) The District will certify the eligibility of Joint Ventures involving MBEs and WBEs and non-certified businesses for credit towards a Contract Goal.

(l) A business found to be ineligible may not apply for certification for two (2) years after the effective date of the final decision.

(m) The certification status of all MBEs and WBEs will be reviewed every two (2) years by the Administrator. Failure of a business to seek recertification by filing the necessary documentation with the Administrator as required will result in decertification.

(n) It is the responsibility of the certified business to notify the Administrator of any change in its circumstances affecting its continued eligibility, including change in ownership and licenses held by the business. Failure to do so will result in the business' decertification.

(o) The Administrator will decertify a business that does not continuously meet the eligibility criteria.

(p) Decertification by another agency will create a *prima facie* case for decertification by the District. The challenged business will have the burden of proving by a preponderance of the evidence that its District certification should be maintained.

Section 11. **Appeals**

A business that has been denied certification or recertification, or that has been decertified by the Administrator may protest the denial or decertification by filing a written appeal with the Executive Director. The appeal must meet the following criteria:

(a) **Timeliness of appeals**. The appeal must be received by the Executive Director within ten (10) calendar days of the date of the letter denying certification, recertification, or decertifying. The appeal must be received no later than 4:30 p.m. central time zone on the tenth (10) calendar day. Any appeal received after this time will not be considered timely and will be automatically denied.

(b) **Form of appeals**. Appeals may be a type-written hardcopy document delivered to the District or may be attached to electronic mail sent directly to the Executive Director no later than 4:30 p.m. If the appeal is a hard-copy document, it must be addressed to the Executive Director and delivered to 100 E. Erie no later than 4:30 p.m.

(c) **Content of appeals**. The appeal must clearly articulate the basis on which it is being made and consist only of a letter clearly explaining why the business believes that the

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Administrator's decision should not be upheld. No new documents may be submitted for the Executive Director's consideration. Only documents already in the possession of the Administrator will be considered in the appeal to the Executive Director.

(d) **Decision on appeals.** The Executive Director will carefully review all documents including the written request for appeal and will render a decision within thirty (30) calendar days of receipt of a timely appeal. The Executive Director's decision will be the final decision on the matter and is not subject to appeal or review.

(e) **Denial of appeals.** A business found to be ineligible for certification may not reapply for certification for two (2) years after the date of the final decision issued by the Executive Director.

Section 12. **Schedule of Goals for Minority and Women-Owned Business Enterprise Utilization**

In fulfillment of this policy to provide MBEs and WBEs full and equitable opportunities to participate on District contracts as both Prime Contractors and Subcontractors, the District will establish Annual Aspirational Goals for MBE and WBE participation, based on the availability of MBEs and WBEs in the District's geographic and procurement market area as established by the 2021 Disparity Study.

Section 13. **Contract Goals**

(a) The Administrator, based upon the information provided by the User Department, will establish Contract Goals for Construction Contracts based upon the availability of at least three (3) MBEs and three (3) WBEs registered on the District's Vendor List to perform the anticipated scope of work on the entire contract and the District's utilization of MBEs and WBEs to date.

(b) Where a substantial portion of the total Construction Contract cost is for the purchase of equipment, the Administrator may designate goals for only that portion of the contract relating to construction work and related supplies or modify the limitations on the credit for MBE and WBE suppliers.

(c) The Contract Goals will be designated in the contract documents.

(d) All contracts on which goals are placed will have goals that are narrowly tailored to the type of work being performed under the contract.

Section 14. **Counting MBE and WBE Participation Towards Contract Goals**

(a) A Bidder may achieve the Contract Goals by its status as a MBE or WBE, by entering into a Joint Venture with one or more MBEs and WBEs, by first-tier subcontracting a portion of the contract to one or more MBEs and WBEs, by direct purchase of materials or services from one or more MBEs and WBEs, or by any combination of the above.

(b) If a business is certified as both a MBE and a WBE, the Bidder may count the business' participation either toward the achievement of its MBE or WBE Contract Goal, but not

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both. Participation by a business certified as both an MBE and a WBE cannot be split between the MBE and the WBE Contract Goal.

(c) When a MBE or WBE participates on a contract, the District will count only the value of the work actually performed by the MBE or WBE towards the Contract Goal.

(d) A Prime Contractor may count the entire amount of that portion of a contract that is performed by MBEs or WBEs own forces, including the cost of supplies and materials obtained and installed by the MBE or WBE for the work on the contract, and supplies purchased or equipment leased by the MBE or WBE used to directly perform the work on the contract, except supplies and equipment the MBE or WBE purchases or leases from the Prime Contractor or the Prime Contractor's Affiliate.

(e) Where a Bidder or first-tier Subcontractor engages in a Joint Venture to meet the Contract Goal, the Administrator will review the profits and losses, initial capital investment, actual participation of the Joint Venture in the performance of the contract with its own forces and for which it is separately at risk, and other pertinent factors of the Joint Venture, which must be fully disclosed and documented in the Utilization Plan in the same manner as for other types of participation, to determine the degree of MBE or WBE participation that will be credited towards the Contract Goal. The Joint Venture's Utilization Plan must evidence how it will meet the Contract Goal or document the Bidder's Good Faith Efforts to do so. The Administrator has the authority to review all records pertaining to Joint Venture agreements before and after the award of a contract in order to assess compliance with this Revised Appendix D. The MBE or WBE Joint Venture partner must have a history of proven Expertise in performance of a specific area of work and will not be approved for performing only general management of the Joint Venture. The specific work activities for which the MBE or WBE Joint Venture partner will be responsible and the assigned individuals must be clearly designated in the Joint Venture agreement. The Joint Venture must submit to the Administrator quarterly work plans, including scheduling dates of the tasks. The Administrator must approve the quarterly plans for the MBE or WBE Joint Venture partner's participation to be credited towards the Contract Goals.

(f) Only the participation of MBEs or WBEs that will perform as first-tier Subcontractors will be counted towards meeting the Contract Goals.

(g) Only expenditures to a MBE or WBE that is performing a Commercially Useful Function will be counted towards the Contract Goals.

(i) A business is considered to perform a Commercially Useful Function when it is responsible for execution of a distinct element of the work of a contract and carries out its responsibilities by actually performing, managing, and supervising the work involved. The business must pay all costs associated with personnel, materials, and equipment. The business must be formally and directly responsible for the employment, supervision and payment of its workforce, must own and /or lease equipment, and must be responsible for negotiating price, determining quality and quantity and paying for and ordering materials used. The business cannot share employees with the Prime Contractor or its Affiliates. No payments for use of equipment or materials by the business can be made through deductions by the

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Prime Contractor. No family members who own related businesses are allowed to lease, loan, or provide equipment, employees, or materials to the business.

(ii) A business does not perform a Commercially Useful Function if its role is limited to that of an extra participant in a transaction through which funds are passed to obtain the appearance of MBE or WBE participation. The Prime Contractor is responsible for ensuring that the business is performing a Commercially Useful Function.

(iii) The District will evaluate the amount of work subcontracted, industry practices, and whether the amount the MBE or WBE is to be paid under the contract is commensurate with the work it is actually performing, along with other relevant factors.

(iv) If a business subcontracts a greater portion of the work of a contract than would be expected based on normal industry practice, it is presumed not to perform a Commercially Useful Function. When a business is presumed not to be performing a Commercially Useful Function, the business may present evidence to the Administrator to rebut this presumption. If no rebuttal is presented, then the presumption will stand.

(h) Credit towards the Contract Goals will be allowed only for those direct services performed or materials supplied by MBEs or WBEs or first-tier Subcontractor MBEs or WBEs. No less than eighty-five (85) percent of their work must be performed with their own forces, through the use of its own management and supervision, employees, and equipment. If industry standards and practices differ, the business must furnish supporting documentation to rebut this presumption to the Administrator.

(i) Prime Contractors are prohibited from allocating MBE and WBE Subcontract work to items identified in a contract as allowances, contingencies, and unit price. Allocation by a Prime Contractor to these categories under the scope of work of a contract will result in the rejection of the Utilization Plan by the Administrator.

(j) Purchase of materials and supplies must be pre-approved if their purchase is related to Contract Goal attainment. The Bidder may count payments to MBE or WBE regular dealers or Manufacturers for Contract Goal attainment for no more than fifty (50) percent of each MBE or WBE goal, unless otherwise approved by the Administrator. If the Bidder exceeds the supplier exception amount allowable as stated in the bid documents, the bid will be viewed as non-responsive.

(k) If a business ceases to be certified during its performance on a contract, the dollar value of work performed under the contract with that particular business after it has ceased to be certified will not be counted.

(l) In determining achievement of Contract Goals, the participation of a MBE or WBE will not be counted until that amount, including retention, has been paid to the MBE or WBE.

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Section 15. **Utilization Plan Submission**

(a) Compliance documents must be submitted as detailed in the bid solicitation. Failure to do so will render the bid non-responsive. The Administrator will review compliance documents for each bid submission to determine whether it meets the requirements herein.

(b) A Bidder must either meet the Contract Goals or establish its Good Faith Efforts to do so as described in this Revised Appendix D and the bid solicitation.

(c) Each Bidder must submit with its bid a completed and signed Utilization Plan that lists for each Subcontractor and supplier proposed to be used to perform the scope of work on the contract: the name; address; telephone number; electronic mail address; six-digit North American Industry Classification System code; a description of the work with contract item number; the dollar amount to be allocated to the business; the contact person of the business; and any other information required in the solicitation documents. Each Bidder's Utilization Plan must commit to MBE or WBE participation equal to or greater than each of the Contract Goals set forth in the bid solicitation, unless the Bidder requests a partial or total waiver of the requirement that it file a Utilization Plan or achieve a particular goal by submitting with the bid a signed Waiver Request in the form specified in the bid solicitation.

(d) Each Bidder must submit with its bid a signed MBE/WBE Subcontractor's Letter of Intent for each business proposed to meet the Contract Goals in the form specified in the bid solicitation, with a copy of each MBE or WBE current Letter of Certification from a state or local government or agency, or documentation demonstrating that the business is a MBE or WBE within the meaning of this Revised Appendix D. In the event of a conflict between the amounts stated on the Utilization Plan and the MBE/WBE Subcontractor's Letter of Intent, the terms stated on the Utilization Plan will control. An original or scanned copy of the MBE/WBE Subcontractor's Letter of Intent will be acceptable.

(e) Where a Bidder has failed to meet the Contract Goals, it must file a Waiver Request documenting its Good Faith Efforts to meet the Contract Goals as provided in the format described in the bid solicitation. Following submittal of a Waiver Request, the Administrator will require the Prime Contractor to file a Contractor Information Form and provide additional documentation of its Good Faith Efforts in attempting to fulfill such goals.

(i) Good Faith Efforts will include, but are not limited to:

(1) Attending the mandatory pre-bid conference conducted by the District to acquaint Prime Contractors with MBEs and WBEs available to provide relevant goods and services and to inform MBEs and WBEs of subcontracting opportunities on a contract.

(2) Reviewing the Vendor List of available MBEs and WBEs maintained by the District, as well as other state and local governments and agencies, prior to the bid opening to identify qualified MBEs and WBEs for solicitation for bids.

(3) Soliciting, not less than fifteen (15) calendar days before the bid opening date, through reasonable and available means (*e.g.*, written notices,

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advertisements on social media) MBEs and WBEs that can provide services in the anticipated scopes of subcontracting on the contract.

(4) Providing MBEs and WBEs with convenient and timely opportunities to review and obtain relevant plans, specifications, or terms and conditions of the contract to enable such MBEs and WBEs to prepare an informed response to a Prime Contractor solicitation and following up initial solicitations to answer questions and encourage MBEs and WBEs to submit bids.

(5) Negotiating in good faith with interested MBEs and WBEs that have submitted bids and thoroughly investigated their capabilities. Evidence of such negotiations includes: the names, electronic mail addresses, and telephone numbers of MBEs and WBEs with whom the Bidder negotiated; a description of the information provided to MBEs and WBEs regarding the work selected for subcontracting; and explanations as to why agreements could not be reached with MBEs and/or WBEs to perform the work. The Bidder may not reject MBEs and WBEs as being unqualified without sound reasons. That there may be some additional costs involved in finding and using MBEs and WBEs is not in itself a sufficient reason for a Bidder's failure to meet the Contract Goals, as long as such costs are reasonable.

(6) Selecting those portions of the contract consistent with the available MBEs and WBEs, including where appropriate, breaking out contract work items into economically feasible units to facilitate MBE and WBE participation.

(7) Making efforts to assist interested MBEs and WBEs in obtaining financing or insurance as required by the District for performance on the contract, when applicable.

(8) Using the services and assistance of the District; MBE and WBE assistance groups; local, state, and federal minority or woman business assistance offices; and other organizations to provide assistance in the recruitment and placement of MBEs and WBEs.

(ii) Failure of a Bidder to provide requested information to the Administrator or to cooperate with the Administrator's investigation may be grounds for the rejection of a bid submission or a Waiver Request.

(iii) Upon completion of the investigation, the Administrator will inform the Director of his or her findings.

(iv) Thereafter, the Administrator will determine whether to grant the Waiver Request based on the Bidder's Good Faith Efforts at the time of the bid submission.

(v) Where the Administrator determines that a Bidder has not made Good Faith Efforts, the Director will declare the bid submission non-responsive and reject the bid.

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(f) A Prime Contractor's submission of a Utilization Plan that commits to MBE or WBE participation equal to or greater than the Contract Goals does not provide a basis for a higher bid, an increase in contract price, or a later change order.

(g) The requirement to submit a Utilization Plan and MBE/WBE Subcontractor's Letter of Intent applies when the individual project is awarded under a Job Order Contract.

(i) A Prime Contractor awarded a Job Order Contract must submit with each work order issued under such a contract its Utilization Plan that lists the name, address, telephone number, electronic mail address, and contact person for each MBE and WBE to be used on the work order, as well as a description of work to be performed and the dollar amount to be allocated to the MBE or WBE. The Prime Contractor must submit with each work order a MBE/WBE Subcontractor's Letter of Intent from each certified business.

(ii) A Prime Contractor awarded a Job Order Contract will be subject to the compliance monitoring provisions contained in this Revised Appendix D. The Prime Contractor must submit to the Administrator monthly documentation, as specified by the Administrator, demonstrating that the Prime Contractor has attained the Contract Goals for the completed portion of the Job Order Contract or that it has been unable to do so despite its Good Faith Efforts. Good Faith Efforts must be documented as provided in this Revised Appendix D.

Section 16. **Bid Submission Compliance Review**

(a) The Director, in coordination with the Administrator, will declare a bid submission non-responsive if a Bidder:

(i) Failed to submit with its bid a completed and signed Utilization Plan and signed MBE/WBE Subcontractor's Letter of Intent from each MBE and WBE listed on its Utilization Plan.

(ii) Failed to commit in its Utilization Plan to MBE and WBE participation equal to or greater than the Contract Goals unless the Bidder submitted with its bid a request a total or partial waiver of the Contract Goals.

(b) Where, after consultation with the Administrator, the Director determines that the Utilization Plan submitted by a Bidder is false or fraudulent, the bid will be rejected or, if the determination is made after the contract is awarded, the contract may be forfeited in accordance with the provisions of Article 28 of the General Conditions.

(c) Prior to the award of any contract, the Administrator will review the Utilization Plan, MBE/WBE Subcontractor's Letter of Intent, Letter of Certification, Contractor Information, and Waiver Request Form submitted by the apparent low Bidder and conduct any other investigation the Administrator deems appropriate to determine compliance.

(d) Within thirty (30) calendar days after request, the Prime Contractor must furnish executed copies of all MBE and WBE subcontracts to the Administrator. Subsequently, the Prime Contractor will obtain and submit a copy of all MBE and WBE contracts at all Tiers within five (5) calendar days of a written request.

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(e) The Prime Contractor will set timetables for the use of its Subcontractors before ten (10) percent of the work is completed. Timetables may be modified during contract performance with the prior written approval of the Administrator.

(f) If requested by the Administrator, the Prime Contractor must submit a MBE and WBE work plan projecting the work tasks associated with a certified business' commitments prior to the award of the contract. The work plan must provide a description of the work to be subcontracted to MBEs and WBEs and non-certified businesses and the dollar amount, as well as the name of all Tiers of Subcontractors. The work plan will become a part of the Prime Contractor's commitment and the contract record and may not be changed without prior written approval of the Administrator.

Section 17. **Mentor-Protégé Program**

The mentor-protégé program has been designed to encourage Prime Contractors to actively participate in the development and mentoring of MBE and WBE businesses. To motivate Prime Contractors to participate in the mentor-protégé program, the District will include a three (3) percent Contract Goal credit towards the applicable mentee category on all contracts to which this Revised Appendix D is applied. In addition to providing mentoring opportunities, the mentor-protégé program will also provide increased access to resources which will facilitate improved economic growth and greater contracting opportunities for the MBE or WBE protégé. The following guidelines will apply to the mentor-protégé program:

(a) The mentor/Prime Contractor will indicate that it wishes to participate in the mentor-protégé program in its bid submission for a District contract. This indication will be considered as an application to participate in the mentor-protégé program, and the application will be subject to the review and approval of the Administrator.

(b) The mentor and protégé must have a relationship independent of the District that pre-exists the mentor/Prime Contractor's bid application. The District will not facilitate a relationship between a mentor and a protégé.

(c) To qualify as a mentor, the Prime Contractor must present evidence that it has been operating in the market in which the protégé conducts business for at least five (5) years; is in good financial standing as determined by its federal tax returns or audited financial statements; and has not been debarred, suspended, or had its business license revoked.

(d) To qualify as a protégé, the Subcontractor must be a MBE and WBE as defined in this Revised Appendix D. Additionally, the protégé must have at least one (1) year of work experience in the market in which the mentor conducts business.

(e) A mentor may only have a total of three (3) protégés at any given time, and no more than one (1) protégé per contract. This information must be provided to the Administrator at the time that the bid application is reviewed.

(f) A protégé may only have one (1) mentor at any given time. This information must be provided to the Administrator at the time that the bid application is reviewed.

(g) A business may not serve as a mentor and a protégé at the same time.

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(h) The mentor and protégé must be separate and distinct businesses. The mentor cannot possess an ownership interest in the protégé business, nor can the businesses be otherwise affiliated outside of the mentor-protégé relationship, including any familial relationship. The Administrator will review and assess the nature of the relationship to ensure that this requirement is fulfilled.

(i) If the mentor-protégé agreement is terminated during the pendency of the District contract on which the mentor-protégé relationship has been approved, it is the obligation of the mentor/Prime Contractor to notify the Administrator within three (3) calendar days of the termination. Failure to notify the Administrator within this required timeframe may result in the mentor/Prime Contractor being prohibited from participating in the mentor-protégé program on future contracts. In the event of termination, the mentor/Prime Contractor will cease to receive any credit or recognition for work performed by the protégé/Subcontractor from the point the agreement has been terminated, separate from any credit or recognition for which it is otherwise entitled.

(j) In the event of termination of the original mentor-protégé agreement, the mentor will not be permitted to engage with another protégé for the same District contract. Likewise, no substitutions of a protégé will be permitted.

(k) Any application to the mentor-protégé program will be denied if, in the opinion of the Administrator, the mentor-protégé relationship presents no opportunity for professional benefit to the protégé, but instead serves only as vehicle for the mentor to receive Contract Goal credits on a District contract. The Administrator's decision on this matter will be final and is not subject to appeal or review.

(l) Violation of any of the provisions contained in this section will result in the mentor-protégé application being denied, or in the event that information pertaining to a violation is discovered after the application is approved, permission to participate in the mentor-protégé program will be revoked. The Administrator's decision on this matter will be final and is not subject to appeal or review.

Section 18. **Contract Performance Compliance**

(a) Following the award of a contract, the Administrator will review the Prime Contractor's compliance with its MBE and WBE commitments during the performance of the contract.

(b) The Prime Contractor will be required to submit the Affirmative Action Monthly MBE/WBE Status Report providing the information in the written format specified by the Administrator. Evidence of MBE and WBE Subcontractor participation and payments must be submitted as required to confirm Subcontractors' participation and payment. The Prime Contractor's failure to do so may result in a finding of non-compliance by the Administrator pursuant to Section 20 of this Revised Appendix D. The Administrator reserves the right to require that the Affirmative Action Monthly MBE/WBE Status Report be submitted electronically via the compliance system upon notice.

(c) District contract compliance officers and auditors, or their designees, must have access to the Prime Contractor's and Subcontractor's Books and Records, including certified payroll records, bank statements, employer business tax returns, and all records including

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all computer records and books of account to determine Prime Contractor and Subcontractor compliance with Program requirements. The District has the sole discretion to perform audits at any time and without notice to the Prime Contractor or Subcontractor. A Prime Contractor must provide the Administrator with any additional compliance documentation within ten (10) calendar days of receipt of a written request.

(d) If District personnel observe that any Subcontractor other than those listed on the Utilization Plan is performing work or providing materials or equipment for those MBE and WBE Subcontractors listed on the Utilization Plan, the Prime Contractor will be notified in writing of an apparent violation and progress payments may be withheld. The Prime Contractor will have the opportunity to meet with the Administrator prior to a finding of non-compliance.

(e) The Prime Contractor is required to fill out the Supplemental Change Order Form or such other documents as the Administrator may require which details the names of the Subcontractors impacted and provides a description of the work and dollar amount of the change and the amended contract value. The Prime Contractor will submit the Supplemental Change Order Form along with any additional documents as required to the Administrator for approval.

(f) Where a partial or total waiver of the Contract Goals has been granted, the Prime Contractor must continue to make Good Faith Efforts during the performance of the contract to meet the Contract Goals, and the Administrator will provide technical assistance with respect to such efforts. The Administrator will require the Prime Contractor to provide documentation of its continuing Good Faith Efforts in attempting to fulfill the Contract Goals.

(g) The Prime Contractor cannot make any changes to the approved Utilization Plan without the prior written approval of the Administrator. This includes, but is not limited to, instances in which the Prime Contractor seeks to perform work originally designated for a MBE or WBE Subcontractor with its own forces or those of an Affiliate, a non-certified business, or another MBE or WBE. Failure to obtain the prior written approval of the Administrator will constitute a breach of the contract and subject the Prime Contractor to any and all available sanctions. Additionally, the participation of certified businesses that did not receive prior written approval by the Administrator will not be counted towards the Contract Goals.

(i) The Prime Contractor must demonstrate good cause to terminate or reduce the scope of work of the MBE or WBE to the satisfaction of the Administrator. Good cause is limited to the following circumstances:

(1) The listed MBE or WBE Subcontractor fails or refuses to execute a written contract.

(2) The listed MBE or WBE Subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness.

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(3) The listed MBE or WBE is ineligible to work on public works projects because of suspension or debarment proceedings pursuant to federal, state, or local law.

(4) The Administrator has determined that the listed MBE or WBE Subcontractor is not a responsible contractor.

(5) The listed MBE or WBE Subcontractor voluntarily withdraws from the project and provides the Administrator with prior written notice of its withdrawal before a decision on certification eligibility by the Administrator is rendered.

(6) The listed MBE or WBE Subcontractor is ineligible to receive credit for the type of work required.

(7) The MBE or WBE owner dies or becomes disabled rendering the business unable to complete the work on the contract.

(8) Other good cause as determined in the Administrator's sole discretion.

(ii) Good cause does not include instances where the Prime Contractor seeks to terminate a MBE or WBE so that the Prime Contractor can self-perform the work or substitute another MBE or WBE or non-certified Subcontractor to perform the work.

(iii) The Prime Contractor must give the MBE or WBE notice in writing, with a copy to the Administrator, of its intent to request to terminate or substitute, and the detailed reasons for the request. The Prime Contractor must give the MBE or WBE five (5) business days to respond to the notice and advise the Administrator of the reasons, if any, why the MBE or WBE objects to the proposed termination and why the Administrator should approve the request to terminate. If required in a particular case as a matter of public necessity (*e.g.,* safety), the Administrator may require a response period shorter than five (5) business days.

(iv) If the Prime Contractor proposes to terminate or substitute a MBE or WBE Subcontractor for any reason, the Prime Contractor must make Good Faith Efforts as defined herein to find a substitute MBE or WBE Subcontractor to meet its MBE or WBE contractual commitment. Its Good Faith Efforts must be directed at finding another MBE or WBE to perform or provide at least the same amount of work, material, or service under the contract as the original MBE or WBE to the extent necessary to meet the Contract Goals.

(v) The Prime Contractor must submit a MBE/WBE Subcontractor's Letter of Intent for each proposed new MBE or WBE Subcontractor.

(vi) The Administrator will review the substitution request and decide whether to grant the request based on the Prime Contractor's documented compliance with these provisions.

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(h) In the event that a Prime Contractor fails to achieve the level of MBE or WBE participation described in its Utilization Plan as demonstrated by its request for a progress payment, the Administrator will provide written notice to the Prime Contractor regarding the deficiency and progress payments may be withheld until compliance is achieved. If additional instances of non-compliance occur, subsequent progress payments may also be withheld pending compliance. Failure to meet the Contract Goals as stated on the Utilization Plan will be a *prime facie* case of non-compliance.

(i) In the event that a Prime Contractor fails to achieve the level of MBE or WBE participation described in its Utilization Plan as the result of the District's elimination of the work to be performed by a MBE or WBE, the Prime Contractor must notify the Administrator in writing and request an amendment of its Utilization Plan. A letter of release signed by the Subcontractor must be included with the request.

(j) The Contract Goal obligation extends to all contract work covered by change orders. The obligation to make Good Faith Efforts to meet the Contract Goal extends to the entire performance of the contract. When contract work is added, the Prime Contractor must award that work to the MBE or WBE listed in its Utilization Plan, if the original scope of work is to be performed by a MBE or WBE listed in the Utilization Plan. If the original listed MBE or WBE cannot perform the additional work, the Prime Contractor must make Good Faith Efforts to secure MBE or WBE Subcontractors to perform the additional contract work so that the goal percentage committed to in the contract is maintained or the Contract Goal is achieved.

(k) When the scope of Contract work is deducted, the Prime Contractor must make Good Faith Efforts to achieve the Contract Goal percentages committed to in the Contract.

(l) The Prime Contractor must notify the Administrator in writing within ten (10) calendar days of its determination to request an amendment of its Utilization Plan. The Prime Contractor must give the MBE or WBE notice in writing, with a copy to the Administrator, of its intent to request a reduction in the scope of work, and the detailed reasons for the request. The Administrator will review the request for the reduction and decide whether to approve the request based on the Prime Contractor's documented compliance with these provisions.

(m) Where contract change orders are made individually or in the aggregate that increase the total value of the contract by more than ten (10) percent of the original contract value, the Prime Contractor will increase the utilization of all MBEs or WBEs, where feasible, so that the total value of the percentage of work performed by MBEs or WBEs as to increased contract value bears the same relationship to the total value of the contract, as modified by change orders, as the percentage of MBEs or WBEs utilization committed to in the Prime Contractor's original Utilization Plan.

Section 19. **Compliance System**

All contractors are to comply with Diversity's electronic compliance and monitoring system for reporting purposes. Failure to comply with these requirements may result in a finding

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of non-compliance by the Administrator pursuant to Section 20 of this Revised Appendix D. The reporting requirements include, but are not limited to:

(a) Prime Contractors are required to submit monthly Diversity spend numbers as well as make payments towards invoices submitted by Subcontractors, on a monthly basis.

(b) Subcontractors are required to submit invoices for their work and to acknowledge payment from Prime Contractors when received.

Section 20. **Sanctions for Non-Compliance**

(a) Where the Administrator believes that the Prime Contractor or Subcontractor has: committed fraud or made misrepresentations to the District; failed to comply with this Revised Appendix D or its contract; provided false or fraudulent documentation; or failed to comply with its Utilization Plan, the Administrator will notify the Prime Contractor and/or Subcontractor in writing of such determination of non-compliance and withhold up to one hundred (100) percent of the current progress or final payment due to the Prime Contractor. The amount to be withheld will be based upon a determination of the degree to which the Prime Contractor has failed to meet its MBE or WBE contractual commitments and to what extent the Prime Contractor has made Good Faith Efforts to achieve such commitments. The Prime Contractor and/or Subcontractor will have the right to meet with the Administrator within ten (10) calendar days of receipt of the notice. After conference and conciliation, the Administrator will determine whether the Prime Contractor and/or Subcontractor is complying.

(b) If the Administrator determines that the Prime Contractor and/or Subcontractor is not in compliance and the violation cannot be resolved by conference and conciliation, the Administrator will refer the matter to the Executive Director. Upon review of the matter, the Executive Director may return the referral to the Administrator with direction on how to proceed or may direct that the Prime Contractor and/or Subcontractor participate in a Show Cause hearing on a date certain to explain why further sanctions should not be imposed.

(i) The Prime Contractor and/or Subcontractor will have ten (10) calendar days after receipt of the Show Cause notice within which to file a response in writing with the Administrator. A hearing before a duly appointed Hearing Officer will be convened to provide the Prime Contractor and/or Subcontractor an opportunity to be heard with respect to the non-compliance. Within twenty (20) calendar days after the Executive Director's referral, the Hearing Officer will schedule a hearing to be held within twenty (20) calendar days of receipt of the referral. The District will carry the burden of proof as to non-compliance by a preponderance of the evidence. An official record will be kept with the Clerk of the District. All filings by the District or the Prime Contractor and/or Subcontractor should be made with the Clerk of the District, with courtesy copies going to the parties and the Hearing Officer.

(ii) The Hearing Officer will conduct the Show Cause hearing and issue findings of fact, conclusions of law, and recommendations regarding disposition of the hearing.

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Procedures and rules governing the Show Cause hearings will be followed as adopted by the Board of Commissioners.

(iii) All Show Cause hearings must be conducted on the record and all testimony must be under oath and transcribed verbatim by a court reporter. All parties will be given the opportunity to present and respond to evidence. The Hearing Officer will conduct a fair hearing and maintain order and will abide by the Judicial Canons of Ethics enacted by the Illinois Supreme Court.

(iv) Within thirty (30) calendar days after the Show Cause hearing, the Hearing Officer will issue in writing to the Executive Director his/her written findings of fact, conclusions of law as to compliance, and recommendations with respect to any appropriate sanctions. The Executive Director will transmit the Hearing Officer's findings, conclusions, and recommendations to the Board of Commissioners which may impose sanctions for a Prime Contractor's and/or Subcontractor's non-compliance with this Revised Appendix D including, but not limited to:

(1) Withholding up to fifty (50) percent of the current progress or final payment due the Prime Contractor until the Administrator determines that the Prime Contractor is in compliance. Following the withholding of up to fifty (50) percent of the current progress payment, up to one hundred (100) percent of further progress payments may be withheld until the Prime Contractor is found to be in compliance. The amount to be withheld will be based upon a determination of the degree to which the Prime Contractor has failed to meet its MBE or WBE contractual commitments and to what extent the Prime Contractor has made Good Faith Efforts to achieve such commitments.

(2) Declaring the Prime Contractor and/or Subcontractor to be non-responsible and disqualify/debar the Prime Contractor and/or Subcontractor from eligibility to bid on District Construction Contracts for a period of not less than one (1) year and not more than three (3) years. A business that is disqualified pursuant to the provisions of this Revised Appendix D will be precluded from participation on any District contract as a Prime Contractor, Subcontractor, and supplier for the period of disqualification. In cases involving the use of false documentation, the making of false statements, fraud or misrepresentation, the disqualification period will be not less than eighteen (18) months and not more than three (3) years for the second violation, and not less than two (2) years and not more than three (3) years for the third violation from the date of disqualification established by the Board of Commissioners' Order.

(3) Rejecting bid submissions by the Prime Contractor for other contracts not yet awarded when it is determined that the Prime Contractor participated in the use of false documentation, the making of false statements, or fraud or misrepresentation.

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(4) For any MBE or WBE that has misrepresented its MBE or WBE status and failed to operate as an independent business performing a Commercially Useful Function, declaration by the Director that the MBE or WBE is ineligible to participate as a MBE or WBE in District contracts. A business that has been declared ineligible may not participate as a MBE or WBE for a period of not less than one (1) year and not more than three (3) years.

(5) Forfeiting and deducting from the Prime Contractor's progress or final payments under the contract an amount up to the dollar amount of its MBE or WBE goal commitment that the Prime Contractor failed to meet. The amount to be deducted will be based upon a determination of the extent to which the Prime Contractor made Good Faith Efforts to achieve such commitments at the sole discretion of the Administrator.

(6) Referring the matter to the Office of the Attorney General or Cook County State's Attorney for follow-up action, where applicable.

(c) The District's attorneys' fees and costs may be assessed against the Prime Contractor and/or Subcontractor where the Hearing Officer makes a finding that the Prime Contractor and/or Subcontractor used false documentation, made false statements, or committed fraud or misrepresentation.

(d) Notice of sanctions imposed by the Board of Commissioners for violations of this Revised Appendix D by the Prime Contractor, Subcontractor, or supplier will be spread upon the public record by the District, including but not limited to publication in the Record of Proceedings of the Board of Commissioners, posting on the District's website, publication in any type of media or newspaper publication, and direct notice by letter to governmental entities.

(e) The District may take other action, as appropriate, within the discretion of the Administrator, subject to the approval of the Hearing Officer and the Board of Commissioners.

Section 21. **Federal Regulations**

The provisions of this Revised Appendix D shall not apply to any contract in which there will be monetary contributions received from a federal agency and the requirements of the federal agency dictate automatic compliance with that agency's affirmative action program. No language contained in this Revised Appendix D shall be interpreted to diminish or supplant the Equal Employment Opportunity Commission requirements.

Section 22. **Reporting and Review**

The Administrator will provide biannual reports to the Board of Commissioners containing the following information:

(a) The level of MBE or WBE participation achieved during the prior calendar year or other time period on District Construction Contracts subject to this Revised Appendix D; and

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(b) Identification of any difficulties with the enforcement of this Revised Appendix D; and

(c) Any recommendations with respect to improving the implementation of this Revised Appendix D.

Section 23. **Sunset Provision**

This Revised Appendix D will expire on December 31, 2027, unless the District finds its remedial purposes have not been fully achieved and that there is a compelling interest in continuing to implement narrowly tailored remedies to redress discrimination against MBEs and WBEs so that the District will not function as a passive participant in a discriminatory marketplace in the District's Chicago construction industry and geographic market area.

Section 24. **Repeal of Prior Inconsistent Provisions**

All enactments and provisions previously adopted by the Board of Commissioners with regard to affirmative action on Construction Contracts subject to this Revised Appendix D that are inconsistent with the provisions contained in this Revised Appendix D are hereby expressly repealed.

Section 25. **Severability**

If any clause, sentence, paragraph, section, or part of this Revised Appendix D is held by a court of competent jurisdiction to be invalid, illegal, or unenforceable, that judgment will not affect, impair, or invalidate the remainder of this Revised Appendix D and will be construed as if the clause, sentence, paragraph, section, or part had never been contained in this Revised Appendix D. The remaining language contained in this Revised Appendix D will remain in full force and effect. In lieu of such invalid, illegal, or unenforceable clause, sentence, paragraph, section, or part, there will be automatically added as part of this Revised Appendix D language as similar in its terms to such invalid, illegal, or unenforceable language as may be possible and be valid, legal, and enforceable.

Section 26. **Effective Dates**

This amendment to Revised Appendix D will be effective and apply to all bids for Construction Contracts advertised after December 31, 2022.

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ADOPTED:

Kari K. Steele

Kari K. Steele, President
Board of Commissioners of the
Metropolitan Water Reclamation
District of Greater Chicago

Approved as to form and legality:

Ellen Avery

Head Assistant Attorney

Susan Morales

General Counsel

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EXHIBIT 5

VETERAN'S BUSINESS ENTERPRISE CONTRACTING POLICY, APPENDIX V

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APPENDIX V

VETERAN-OWNED BUSINESS ENTERPRISE CONTRACTING POLICY REQUIREMENTS

Section 1. **Purpose**

The purpose of the Veteran-Owned Business Enterprise Contracting Policy ("Policy") is to increase contracting opportunities with the Metropolitan Water Reclamation District of Greater Chicago ("District") for veteran-owned and operated small business enterprises.

Section 2. **Definitions**

(a) "Contract Goals" means the numerical percentage goals for MBE, WBE, and VBE participation to be applied to an eligible District contract subject to Affirmative Action Ordinance Revised Appendix D of the Metropolitan Water Reclamation District of Greater Chicago and this Appendix V for the participation of MBEs, WBEs, and VBEs based upon the scope of work of the contract and the availability of MBEs, WBEs, and VBEs to meet the goal, and the District's progress towards meeting its annual MBE and WBE goals.

(b) "Eligible Veteran" means an individual who has been a member of the armed forces of the United States and served for a total of at least six (6) months, or for the duration of hostilities regardless of the length of engagement, and

(i) was discharged on the basis of hardship; or
(ii) was released from active duty because of a service-connected disability; or
(iii) was discharged under honorable conditions.

Former members of the military with the following type of discharges are excluded from the Policy:

(i) dishonorably discharge; or
(ii) bad conduct discharge; or
(iii) general discharge under other-than-honorable conditions.

(c) "Good Faith Efforts" means honest, fair, and commercially reasonable actions undertaken by a prime contractor or consultant to meet the VBE Contract Goal, which by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the Contract Goals.

(d) "Local Business" means a business located within the District's geographic market area as established by the 2021 Disparity Study, namely the counties of Cook , DuPage, Kane, Lake, McHenry, or Will, in the State of Illinois.

(e) "Minority-owned Business Enterprise" or "MBE" means a local small business entity, including a sole proprietorship, partnership, corporation, limited liability company, joint venture, or any other business or professional entity, which is at least fifty-one (51) percent owned by one or more socially and economically disadvantaged individuals who are members of one or more minority groups, or, in the case of a publicly held corporation, at least fifty-one (51) percent of the stock of which is owned by one or more members of one or more minority groups, and whose management, policies, major decisions, and daily business operations are controlled by one or more minority individuals.

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(f) "Small Business Enterprise" or "SBE" means a small business as defined by the United States Small Business Administration (SBA), pursuant to the business size standard found in 13 CFR Part 121, that is relevant to the scope of work the business seeks to perform on District contracts. A business is not an eligible SBE in any calendar fiscal year in which its gross receipts, averaged over the business' previous five (5) fiscal years, exceed the size standards of 13 CFR Part 121.

(g) "Veteran-owned Business Enterprise" or "VBE" means a local small business entity, including a sole proprietorship, partnership, corporation, limited liability company, joint venture or any other business or professional entity, which is at least fifty-one (51) percent owned by one or more eligible veterans, or in the case of a publicly held corporation, at least fifty-one (51) percent of the stock which is owned by one or more eligible veterans, and whose control and management of the business including long-term goals for the company as well as day-to-day operations are controlled by one or more eligible veterans.

(h) "Women-owned Business Enterprise" or "WBE" means a local small business entity which is at least fifty-one (51) percent owned by one or more socially and economically disadvantaged individuals who are women, or in the case of a publicly held corporation, fifty-one (51) percent of the stock of which is owned by one or more women, and whose management and daily business operations are controlled by one or more women. Determination of whether a business is at least fifty-one (51) percent owned by a woman or women will be made without regard to community property laws.

Section 3. **Certification Eligibility**

(a) Only a business owned, managed, and controlled by an Eligible Veteran may be certified as a VBE.

(i) Ownership by one or more Eligible Veterans must be direct and unconditional; and
(ii) Subsidiaries owned or controlled by one or more Eligible Veterans is not acceptable.

(b) For the purposes of this policy, there is no distinction between service-disabled and non-service disabled veteran-owned businesses.

Section 4. **Contract Goals**

(a) The standard Contract Goal for VBEs is three (3) percent, unless otherwise specified in the language of the contract, specifically the Invitation to Bid. This goal is applicable to contracts awarded by the District where the total approved expenditure is in excess of one hundred thousand dollars ($100,000.00).

(b) VBE Contract Goals are separate and distinct from the MBE and WBE Contract Goals. An Eligible Veteran who is also a MBE or WBE may be utilized to fulfill the MBE, WBE, and VBE Contract Goals, as applicable. However, the three (3) percent VBE Contract Goal must be fulfilled in addition to the MBE and WBE Contract Goals set forth.

(c) If a MBE or WBE is utilized to accomplish the VBE Contract Goal, the VBE commitment amount must be entered as a separate dollar amount on all contract documents.

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(d) VBE Contract Goals will only be applied to a contract when there are at least two (2) qualified VBE contractors or professional services consultants registered on the District's vendor list that are capable of performing the anticipated subcontracting functions of the contract.

Section 5. **Good Faith Efforts**

A prime contractor must undertake Good Faith Efforts to ensure that qualified VBE businesses are utilized in the performance of the contract and provide maximum opportunities for VBE participation, notwithstanding the fact that the contractor may have the capability to complete the contract without the use of subcontractors.

Section 6. **VBE Commitment Form Submission**

When completing a Utilization Plan for a contract bid document, a prime contractor must complete the VBE Commitment Form by doing the following:

(a) Provide the name, contact information, and qualifications for prospective VBE businesses. Delineate the various anticipated categories and disciplines of services to be provided by VBE businesses and provide the dollar amount to be allocated to each business; and

(b) Summarize commitment to comply with the VBE Contract Goal for the project. Compliance documents must be submitted as detailed in the bid solicitation. The Administrator will review compliance documents for each bid submission to determine whether it meets the requirements herein; and

(c) Where a prime contractor or consultant is a business owned and controlled by a VBE or where the prime contractor or consultant utilizes a VBE in a joint venture or as a subcontractor, a prime contractor or consultant may count toward the achievement of its VBE Contract Goals the utilization of any VBE that also satisfies the definition of a SBE.

Section 7. **Effective Date**

This Policy is effective as of December 31, 2022 and applies only to qualifying contracts advertised after the effective date.

Adopted pursuant to an Order of the Board dated November 15, 2018

Revised May 1, 2023

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EXHIBIT 6

M/WBE UTILIZATION PLAN

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REVISED DECEMBER, 2022

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

MBE/WBE UTILIZATION PLAN

For Local and Small business entities - Definitions for terms used below can be found in Appendix D: MBE - Section 5(u); WBE - Section 5(ff); SBE - Section 5(z).

NOTE: The Bidder shall submit with the Bid, originals or facsimile copies of all MBE/WBE Subcontractor's Letter of Intent furnished to all MBEs and WBEs. IF A BIDDER FAILS TO INCLUDE signed copies of the MBE/WBE Utilization Plan and all signed MBE/WBE Subcontractor's Letter of Intent with its bid, said bid will be deemed nonresponsive and rejected.

All Bidders must sign the signature page UP-4 of the Utilization Plan, even if a waiver is requested.

Name of Bidder: _____

Contract No.: _____

Affirmative Action Contact & Phone No.: _____

E-Mail Address: _____

Total Bid: _____

MBE/WBE UTILIZATION PLAN AND ALL SIGNED MBE/WBE SUBCONTRACTOR'S LETTER OF INTENT MUST BE COMPLETED, SIGNED AND ACCOMPANY YOUR BID!!!

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MBE UTILIZATION

Name of MBE and contact person: _____

Business Phone Number: _____ Email Address: _____

Address: _____

Description of Work, Services or Supplies to be provided: _____

_____

CONTRACT ITEM NO.:_____

Total Dollar Amount Participation: _____

The MBE/WBE Utilization Plan and the MBE/WBE Subcontractor's Letter of Intent MUST Accompany the Bid! ! !

MBE UTILIZATION

Name of MBE and contact person: _____

Business Phone Number: _____ Email Address: _____

Address: _____

_____

Description of Work, Services or Supplies to be provided: _____

_____

CONTRACT ITEM NO.:_____

Total Dollar Amount Participation: _____

The MBE/WBE Utilization Plan and the MBE/WBE Subcontractor's Letter of Intent MUST Accompany the Bid! ! !

MBE UTILIZATION

Name of MBE and contact person: _____

Business Phone Number: _____ Email Address: _____

Address: _____

Description of Work, Services or Supplies to be provided: _____

_____

CONTRACT ITEM NO.:_____

Total Dollar Amount Participation: _____

The MBE/WBE Utilization Plan and the MBE/WBE Subcontractor's Letter of Intent MUST Accompany the Bid! ! !

(Attach additional sheets as needed)

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WBE UTILIZATION

Name of WBE and contact person: _____

Business Phone Number: _____ Email Address: _____

Address: _____

Description of Work, Services or Supplies to be provided: _____

_____

CONTRACT ITEM NO.:_____

Total Dollar Amount Participation: _____

The MBE/WBE Utilization Plan and the MBE/WBE Subcontractor's Letter of Intent MUST Accompany the Bid! ! !

WBE UTILIZATION

Name of WBE and contact person: _____

Business Phone Number: _____ Email Address: _____

Address: _____

Description of Work, Services or Supplies to be provided: _____

_____

CONTRACT ITEM NO.:_____

Total Dollar Amount Participation: _____

The MBE/WBE Utilization Plan and the MBE/WBE Subcontractor's Letter of Intent MUST Accompany the Bid! ! !

WBE UTILIZATION

Name of WBE and contact person: _____

Business Phone Number: _____ Email Address: _____

Address: _____

Description of Work, Services or Supplies to be provided: _____

_____

CONTRACT ITEM NO.:_____

Total Dollar Amount Participation: _____

The MBE/WBE Utilization Plan and the MBE/WBE Subcontractor's Letter of Intent MUST Accompany the Bid! ! !

(Attach additional sheets as needed)

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SIGNATURE SECTION

On Behalf of _____ I/We hereby acknowledge that
(name of company)

I/WE have read Revised Appendix D, will comply with the provisions of Revised Appendix D, and intend to use the MBEs and WBEs listed above in the performance of this contract and/or have completed the Waiver Request Form. To the best of my knowledge, information and belief, the facts and representations contained in this Exhibit are true, and no material facts have been omitted.

I do solemnly declare and affirm under penalties of perjury that the contents of the foregoing document are true and correct, and that I am authorized, on behalf of the bidder, to make this affidavit.

_____ _____
Date *Signature of Authorized officer*

ATTEST: _____
Print name and title

_____
Secretary

_____
Phone number

1) **The Bidder is required to sign and execute this page, EVEN IF A WAIVER IS BEING REQUESTED.**

2) **Failure to do so will result in a nonresponsive bid and rejection of the bid.**

3) If a waiver is requested, the bidder must also complete the following **"WAIVER REQUEST FORM."**

The MBE/ WBE Utilization Plan and the MBE/ WBE Subcontractor's Letter of Intent MUST Accompany the Bid! ! !

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WAIVER REQUEST FORM

If a waiver is requested, the Bidder is required to sign and execute this page.

Contract No.: _____

Name of Bidder: _____

Contact Person and Phone Number: _____

With respect to the contract specified above, the Bidder hereby requests a total or partial waiver of the requirement that, pursuant to Section 15 (a)-(d) of the Affirmative Action Ordinance, Revised Appendix D, it files a MBE/ WBE Utilization Plan or achieve a particular goal for MBE/WBE participation in the contract. The reasons for the request are as follows:

_____
_____
_____
_____

On Behalf of _____ I/We hereby acknowledge that
(name of company)

I/WE have read Affirmative Action Ordinance, Revised Appendix D, will comply with the provisions of Affirmative Action Ordinance, Revised Appendix D, and intend to use the MBEs and WBEs listed in the MBE/WBE Utilization Plan in the performance of this contract and have completed the Waiver Request Form. To the best of my knowledge, information and belief, the facts and representations contained in this Waiver Request Form are true, and no material facts have been omitted.

I do solemnly declare and affirm under penalties of perjury that the contents of the foregoing document are true and correct, and that I am authorized, on behalf of the contractor, to make this affidavit.

_____ _____
Date *Signature of Authorized officer*

ATTEST: _____
Print name and title

_____
Secretary

_____
Phone number

NOTE TO BIDDERS

All Waiver requests are evaluated carefully by the District. **The evaluation is based on your firm's documented GOOD FAITH EFFORTS.**

The GOOD FAITH EFFORTS MUST be Undertaken PRIOR to your bid submittal to the District.

Good Faith Efforts are identified on pp. D21–D22, Section 15. Utilization Plan Submission (e), (i)(1)-(8).

The MBE/ WBE Utilization Plan and the MBE/ WBE Subcontractor's Letter of Intent MUST Accompany the Bid! ! !

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MBE/ WBE SUBCONTRACTOR'S LETTER OF INTENT

To: (Name of Bidder) _____ and the MWRDGC

RE: Contract Name:(Insert Name) _____

Contract Number: (Insert Number) _____

From: (Name of MBE/WBE Firm) _____ MBE: Yes___ No__
WBE: Yes___ No__

The MBE/WBE status of the undersigned is confirmed by the attached letter of Certification. A certification letter must be attached hereto.

The undersigned is prepared to provide the following described services or supply the following described goods in connection with the above named project/contract:

_____

_____

If more space is needed to fully describe the MBE/WBE firms' proposed scope of work and/or payment schedule, attach additional sheets.

The above described performance is offered for the following total price:

$_____ _____

(Written in Figures) (Written in Words)

In the event of a discrepancy between the "Written in Words" price and the "Written in Figures" price, the "Written in Words" price shall govern."

The undersigned will enter into a formal written agreement for the above work with the Prime Contractor, conditioned upon the execution of a contract by the Prime contractor with the MWRDGC.

_____

(Signature of Owner, President or Authorized Agent of MBE/WBE)

_____

Name/Title (Print)

Date_____ Phone_____

THIS SIGNED DOCUMENT MUST BE SUBMITTED WITH THE BID. FAILURE TO DO SO WILL RESULT IN A NONRESPONSIVE BID AND REJECTION OF THE BID.

All bidders shall submit with the Bid, copies of MBE/WBE Subcontractor's Letter of Intent in paper form with signatures, which were furnished to each MBE and WBE listed in its MBE/WBE Utilization Plan and must be submitted to the District with its bid as part of its bid packet with either a copy of each MBE and WBE current Letter of Certification from a state or local government or agency or documentation demonstrating that the MBE and WBE is a MBE or WBE within the meaning of this Revised Appendix D. Failure to submit the MBE/WBE Subcontractor's Letter of Intent signed by each MBE and WBE subcontractor will be viewed as nonresponsive and the bid will be rejected. All MBE/WBE Subcontractor's Letter of Intent must conform to the MBE/WBE Utilization Plan submitted with the bid. An original or facsimile copy of MBE/WBE Subcontractor's Letter of Intent will be acceptable.

The MBE/ WBE Utilization Plan and the MBE/ WBE Subcontractor's Letter of Intent MUST Accompany the Bid! ! !

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EXHIBIT 7

VBE COMMITMENT FORM

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VBE COMMITMENT FORM

1. Name of VBE: _____

Identify MBE, WBE Status: _____ **Address:** _____

City, State, Zip Code: _____

Contact Person: _____ **Telephone Number:** _____

eMail Address: _____

***Dollar Amount of Participation: $**_____ **Percent of Participation:** _____**%**

Scope of Work: _____

---

2. Name of VBE: _____

Identify MBE, WBE Status: _____ **Address:** _____

City, State Zip Code: _____

Contact Person: _____ **Telephone Number:** _____

eMail Address: _____

***Dollar Amount of Participation: $**_____ **Percent of Participation:** _____**%**

Scope of Work: _____

---

3. Name of VBE: _____

Identify MBE, WBE Status: _____ **Address:** _____

City, State Zip Code: _____

Contact Person: _____ **Telephone Number:** _____

eMail Address: _____

***Dollar Amount of Participation: $**_____ **Percent of Participation:** _____**%**

Scope of Work: _____

---

4. Name of VBE: _____

Identify MBE, WBE Status: _____ **Address:** _____

City, State, Zip Code: _____

Contact Person: _____ **Telephone Number:** _____

eMail Address: _____

***Dollar Amount of Participation: $**_____ **Percent of Participation:** _____**%**

Scope of Work: _____

* If a MBE or WBE will be utilized to accomplish the VBE Contract Goal, then the VBE commitment amount must be entered as a separate dollar amount. VBE Contract Goals are separate and distinct from the MBE and WBE Contract Goals.

Attach a copy of qualifications for each VBE business.

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EXHIBIT 8

AFFIRMATIVE ACTION STATUS REPORT

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AFFIDAVIT - AFFIRMATIVE ACTION STATUS REPORT

Notice: **This report is required to be submitted at 25%, 50%, 75% and 100% completion of construction.**

Contract Title: _____

Contract Number: _____

Prime Contractor's Name: _____

Prime's Contact Name: _____ Estimated Completion Date: _____

Prime's Contact Phone#: ( ) _____ Status Report No.: 25% - 50% - 75% - 100%
(CIRCLE ONE)

In connection with the above-captioned contract:

For each MBE or WBE subcontractor, including third tier contracts awarded by your MBE or WBE company, describe the work or goods or services provided in relation to this contract (indicate line items, if applicable) performed during the reporting period.

MBE or WBE Subcontractor	MBE/WBE	AMOUNT OF CONTRACT	AMOUNT PAID TO DATE
DESCRIPTION OF WORK/SERVICES AND/OR GOODS PROVIDED. BE SPECIFIC.			

MBE or WBE Subcontractor	MBE/WBE	AMOUNT OF CONTRACT	AMOUNT PAID TO DATE
DESCRIPTION OF WORK/SERVICES AND/OR GOODS PROVIDED. BE SPECIFIC.			

MBE or WBE Subcontractor	MBE/WBE	AMOUNT OF CONTRACT	AMOUNT PAID TO DATE
DESCRIPTION OF WORK/SERVICES AND/OR GOODS PROVIDED. BE SPECIFIC.			

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MBE or WBE Subcontractor	MBE/WBE	AMOUNT OF CONTRACT	AMOUNT PAID TO DATE
DESCRIPTION OF WORK/SERVICES AND/OR GOODS PROVIDED. BE SPECIFIC.			

MBE or WBE Subcontractor	MBE/WBE	AMOUNT OF CONTRACT	AMOUNT PAID TO DATE
DESCRIPTION OF WORK/SERVICES AND/OR GOODS PROVIDED. BE SPECIFIC.			

I DO SOLEMNLY DECLARE AND AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE CONTENTS OF THE FOREGOING DOCUMENT ARE TRUE AND CORRECT, AND THAT I AM AUTHORIZED, ON BEHALF OF THE CONTRACTOR. TO MAKE THIS AFFIDAVIT. I CERTIFY THAT THE ABOVE NAMED FIRM WAS AWARDED CONTRACT(S), PERFORMED THE WORK WITH THEIR OWN FORCES, AMOUNTS LISTED ARE ACCURATE AND PAYMENTS WERE MADE IN ACCORDANCE WITH CONTRACTUAL OBLIGATIONS. CANCELLED CHECKS AND/OR SUPPORTING INFORMATION WILL BE ON FILE FOR INSPECTION OR AUDIT.

Name of Affiant: _____

Title: _____

Signature: _____
(Signature of Affiant)

Date: _____

State of _____

County (City) of _____

This instrument was SUBSCRIBED and SWORN TO before me on _____(date)

_____
Signature of Notary Public

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EXHIBIT 9

OPERATION AND MAINTENANCE PLAN, INSPECTION LOG

Docusign Envelope ID: F14D710F-4061-43EE-B408-38BC934641A7

DIRECTOR
William Meyer

ASSISTANT PUBLIC WORKS DIRECTOR
Scott Munis

Phone: (708) 499-7756
www.oaklawn-il.gov

Village of Oak Lawn (Department of Public Works)
9446 S. Raymond Avenue, Oak Lawn, IL 60453

EXHIBIT 9: Operation and Maintenance Plan

OPERATION AND MAINTENANCE OF THE STORMWATER STORAGE AT COMMUNITY HIGH SCHOOL DISTRICT 218 ADMINISTRATION SPORTS FIELD

This Operation and Maintenance (O&M) Plan establishes responsibilities and practices for maintaining the stormwater management facility at Community High School District 218 for a minimum of fifty (50) years to ensure continued delivery of the intended public stormwater benefit. This Plan aligns with requirements set forth by the Village of Oak Lawn and the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC).

Drainage Systems O&M Overview
Maintenance is necessary for a stormwater basin system, much like with catch basins and other underground infrastructure. The following maintenance plan is intended to extend the life of the underground improvements and shall be monitored and revised as necessary, through an amendment to the IGA.

The O&M plan is included as an exhibit to the Intergovernmental Agreement and is legally binding. Upon completion of project construction, the following Operations & Maintenance (O&M) procedures shall take effect and be conducted perpetually from the date that construction was completed.

The purpose of this project is to alleviate urban flooding in the Village of Oak Lawn, along within the flood prone project area.

The Village shall coordinate annual inspections with the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) in accordance with the intergovernmental agreement by and between the Village and MWRDGC.

The Project Improvements and its appurtenances shall be inspected and maintained by the Village on a regular basis and after every major storm event (i.e. storms greater than 3" in a 48-hour period or less). The Village shall perform the following activities as deemed necessary to maintain the intended public benefit of the project.

- Remove debris and/or accumulated sediment deposits in all project improvement drainage improvement areas, including the stormwater detention area.
- Maintain all improved vegetated areas:

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- Maintenance of turf grass and shrubs/trees will consist of mowing and pruning. Mowing of turf grass shall be done on a regular basis to ensure the flow within the Village storm sewer system is not diminished. Maintenance of the grass and landscape will be shared with Community High School District 218 (the "Grantor") per Plat of Stormwater Utility and Drainage Easement agreement between the Village of Oak Lawn and the Grantor.

Maintenance Commitment

- The Village shall, at its sole cost and expense, maintain the Project in accordance with this Plan for no less than 50 years.
- The Project must continually deliver its intended Public Benefit (e.g., detention capacity, flood mitigation, water quality improvements).
- If, before the end of the 50-year term, replacement becomes necessary, the Village and MWRDGC shall negotiate mutually acceptable replacement terms.
- At the end of 50 years, the Village will either:
  - Replace the Project with infrastructure offering equal or greater stormwater benefits, or
  - Continue operating the Project if it remains functional and beneficial.

Inspection Requirements

- The Village must conduct annual inspections to evaluate:
  - Structural integrity
  - Functionality of inlet/outlet structures
  - Sediment accumulation
  - Erosion or bank failures
  - Blockages or debris accumulation
- Inspections shall occur:
  - Once annually at minimum
  - Additional inspections after major storm events (>1 inch in 24 hours)
- Drainage structures and flow restrictors must be inspected and cleaned annually.
  - Stormwater basin, stormwater structures, and cleanouts are designed so that the structure is accessible for inspection and maintenance.
  - Inspect drainage and stormwater structures for sedimentation and debris.
  - Repair structures or equipment that show signs of excessive wear or damage.
- Vegetation shall be maintained on a regular basis.
  - Mow and trim vegetation.
  - Re-seed and/or replant bare areas in accordance with project plans and specifications; install appropriate erosion control measures when native soil is exposed or erosion channels are forming.

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Annually

- O&M plan procedures and practices must be reviewed and assessed annually by the Village. If upon review, the O&M plan is changed, these changes must be approved by MWRD.
- The Regular Maintenance Schedule shall be followed, and corrective actions shall be required to repair or remediate problems identified in inspections.
- Landscaped areas adjacent to the underground drainage systems shall be well maintained and shall not allow soil or other debris to be transported into the storm sewer system.
- The following activities shall be prohibited from occurring: Dumping and/or allowing debris and/or any other liquids, besides storm sewer runoff, into the drainage system.
- The Owner shall budget for cleaning the storm sewer structure sumps at least one (1) time per year, as described in the Regular Maintenance Schedule below.
    - Inspect and remove sediment and floatable in drainage structures and flow restrictors within the project area. Confined space safety procedures must be followed for manhole entry. Repair the structure or equipment if needed.
- Perform structural inspections on all project improvement drainage areas, and all other project improvements, including, but not limited to the following:
    - Village-owned storm and sanitary structures within Project Area,
    - Repaved hot-mix asphalt streets, including any replaced curb and gutter,
    - Inspect the drainage system on an annual basis before the stormwater season begins in March.

Reporting Requirements

- The Village will prepare an Annual Inspection Report that includes:
    - Date of inspection
    - Visual observations and condition ratings
    - Noted deficiencies or required repairs
    - Evidence of public benefit performance
    - Photos of key structures and conditions
    - Any corrective actions taken or planned
    - Maintain an updated logbook documenting the inspection activities and results, as well as the performance of the required O&M activities. The logbook shall include:
        - Dates of inspection and maintenance/repair.
    - Facility components inspected and their conditions (refer to the previous section).
    - Details of all inspections and reasons that maintenance/corrective action are needed.
    - Details of all maintenance activities, both routine and emergency.
    - Examples of the Maintenance Checklist and Inspection Log are provided on later pages

Corrective Actions

- Repair as necessary to maintain intended functionality of stormwater detention system.
- If any blockages are encountered in the system, they shall be removed during the inspection process under safe conditions with proper ventilation equipment and training.

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  - Blockages should be safely removed as soon as practical so that the stormwater detention system will fill and drain properly before the ensuing stormwater event.
- At least 3 days shall pass prior to cleaning the stormwater detention system to ensure the system is completely drained and all sediment has settled to the bottom of the system.
  - Maintenance/Cleaning shall be performed using a vac truck, with sediment being flushed towards the vacuum hose for thorough removal.
- Submission Deadline:
  - The completed inspection report must be submitted to MWRDGC within 30 calendar days of inspection.

Sign-off by Director of Public Works or equivalent:

I attest that I have reviewed this plan and can commit the necessary resources towards implementing it.

Bill Meyer	Director of Public Works	Bill Meyer	6-25-25
Printed name	Title	Signature	Date

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Maintenance Checklist for the Polaris Drainage System

- Refer to the "Village of Oak Lawn's Operations & Maintenance Plan" for detailed requirements.

Crew foreman: **Date:** **Time:**	**Maintenance Type:** □ Regular (scheduled) □ Emergency/Corrective Action
List of Drainage Items Serviced:	

Maintenance Items	**Completed? (Y/N)**	**Comments***
Preventive Pavement Cleaning (three times per year at a minimum)		
Sweep the entire pavement area		
Drainage Structure Cleanup (Early Spring/Late Fall)		
Remove debris and sediment from drainage structures		
Restorative Pavement Cleaning (Every 2 years or more often, as determined by inspection)		
Run a vacuum sweeper over pavement to rid pavement and curbline from any debris.		

Additional Comments & Corrective Actions Taken:

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Inspection Log for Box Culverts		
• Refer to the "Village of Oak Lawn's Operations & Maintenance Plan for Polaris Drainage System" for detailed requirements.		
Inspector: **Date:** **Time:** **Time Passed Since Last Rain Event:**		**Inspection/Maintenance Type:** □ Regular (scheduled) □ Emergency/Corrective Action □ Following rainstorm > 1.5 in.
Area: **General Site Conditions:**		
Inspection Items	**Satisfactory (S) or Unsatisfactory (U)**	**Comments/Corrective Action, Issue Location**
Surface Infiltration		
No sedimentation or signs of sedimentation on storm sewer inlet grates		
No water ponding or evidence of ponding in curbline		
Drainage Structure Inspection (Early Spring/Late Fall/After >1.5 inches of rainfall)		
No evidence of blockage		
Good condition, no need for cleaning/repair		
Additional Comments, Recommendations:		

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EXHIBIT 10

PROJECT SITE PROPERTY INTEREST DOCUMENTS OR AFFIDAVIT

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STATE OF ILLINOIS

COUNTY OF COOK

AFFIDAVIT OF OWNERSHIP

Thomas E. Phelan, being first duly sworn on oath, deposes and says:
(Print Name of Affiant)

1. I am the Village Manager of the Village of Oak Lawn (Village), and duly authorized to
(Print Title)
execute and deliver this affidavit to the Metropolitan Water Reclamation District of Greater Chicago ("MWRDGC") for the purpose of establishing the dedication of, or ownership over, the Project site for which the parties have entered into an Intergovernmental Agreement ("IGA"), described and referred to as:

Stormwater Storage at Community High School District 218 Administration Sports Field and Storm Sewer Improvements
(IGA Title)

2. I caused a search of reasonably accessible real property records to be conducted, and that no evidence of dedication, perpetual easement, or ownership of the Project site was found, thus necessitating execution of this affidavit.

3. The Village represents that the site on which the Project will be constructed ("Project site") lies entirely within a dedicated public right-of-way, perpetual easement, or property owned solely by the Village and is located at:
Kilpatrick Avenue between 105th Street and 109th Street, 105th Street between Kedvale Ave and Kilpatrick Ave, 108th Street between Kilpatrick Ave and Kenton Ave
(Print Street Address)*

4. The Village represents that the most current Cook County Tax map (also known as "Sidwell map") depicting the area(s) encompassing the entire Project site can be found at www.cookcountyclerk.com and confirms paragraph 3 above.

5. The Village represents that it will maintain an exclusive and uninterrupted property interest the Project site as a dedicated public right-of-way, perpetual easement, or solely owned property for the duration of the IGA term.

6. The Village will immediately advise the District in writing of changes or modifications to the information disclosed in this Affidavit.

7. This Affidavit is made for the purpose of complying with Article 4, paragraph 1 of the IGA.

Thomas Phelan
(Affiant)

ATTEST:

Clerk

June 25 2025
Date

*Use additional sheet, if necessary

Docusign Envelope ID: F14D710F-4061-43EE-B408-38BC934641A7

EXHIBIT 11

PLAT OF STORMWATER UTILITY AND DRAINAGE EASEMENT

PLAT OF STORMWATER UTILITY AND DRAINAGE EASEMENT

PART OF THE WEST HALF OF THE SOUTHWEST QUARTER OF SECTION 15, TOWNSHIP 37 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, ILLINOIS.

SUBMITTED BY AND RETURN TO:

VILLAGE OF OAK LAWN
6448 S. RAYMOND AVE.
OAK LAWN, IL 60453

AFFECTED PINs:

24-15-302-001	24-15-302-005
24-15-302-008	24-15-302-009
24-15-303-001	24-15-303-007
24-15-303-003	24-15-303-004
24-15-303-005	24-15-303-006
24-15-303-009	24-15-309-008
24-15-309-009	24-15-309-010
24-15-309-011	24-15-310-003
24-15-310-004	24-15-310-005
24-15-310-006	24-15-310-007

Doc# 2308257008 Fee $133.00
KAREN A. YARBROUGH
COOK COUNTY CLERK
DATE: 03/23/2023 11:32 AM PG: 1 OF 8

OWNERS (GRANTORS) CERTIFICATE

STATE OF ILLINOIS } SS
COUNTY OF COOK }

THIS IS TO CERTIFY THAT THE UNDERSIGNED IS THE OWNER OR DULY AUTHORIZED AGENT OF THE OWNER, OF THE LAND DESCRIBED AND SHOWN ON THE PLAT HEREON, AND AS SUCH OWNER, HAVE CAUSED THE SAME TO BE PLATTED AS SHOWN HEREON, FOR THE USES AND PURPOSES THEREIN SET FORTH AND AS ALLOWED AND PROVIDED BY STATUTES, AND SAID OWNER DOES HEREBY ACKNOWLEDGE AND ADOPT THE SAME UNDER THE STYLE AND TITLE AFORESAID.

OWNER OR AUTHORIZED AGENT:

10201 S. Kilpatrick Avenue
Oak Lawn, IL 60453
ADDRESS:

DATED THIS 16 DAY OF March, 2023

NOTARY CERTIFICATE

STATE OF ILLINOIS } SS
COUNTY OF COOK }

I, Karen Hill, A NOTARY PUBLIC IN AND FOR SAID COUNTY, IN THE STATE AFORESAID, DO HEREBY CERTIFY THAT Josh Barron, PERSONALLY KNOWN TO ME TO BE THE SAME PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE AFORESAID INSTRUMENT AS SUCH OWNERS, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THAT THEY SIGNED THE PLAT AS THEIR OWN FREE AND VOLUNTARY ACT FOR THE USES AND PURPOSES THEREIN SET FORTH. GIVEN UNDER MY HAND AND NOTARIAL SEAL THIS 16 DAY OF March, 2023.

Karen Susan Hill NOTARY PUBLIC

Official Seal
Karen Susan Hill
Notary Public State of Illinois
My Commission Expires 10/24/2026

VILLAGE BOARD CERTIFICATE:

THIS IS TO CERTIFY THAT THIS PLAT OF STORMWATER UTILITY AND DRAINAGE EASEMENT WAS SUBMITTED FOR APPROVAL TO THE VILLAGE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF OAK LAWN, COOK COUNTY, ILLINOIS AND WAS REVIEWED AND DULY APPROVED BY THE VILLAGE PRESIDENT AND BOARD OF TRUSTEES AT A REGULAR MEETING HELD ON 3-27-2023 2023.

VILLAGE PRESIDENT VILLAGE CLERK

VILLAGE OF OAK LAWN CORPORATE SEAL COOK COUNTY, ILLINOIS

DATED THIS 27 DAY OF March, 2023

PERMISSION TO RECORD

STATE OF ILLINOIS } SS
COUNTY OF DUPAGE }

I, KEITH A. WETENDORF, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HEREBY GRANT PERMISSION TO A REPRESENTATIVE OF THE VILLAGE OF OAK LAWN TO RECORD THIS PLAT.

GIVEN UNDER MY HAND AND SEAL THIS 30th DAY OF JANUARY, A.D., 2023.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3703
LICENSE TO BE RENEWED NOVEMBER 30, 2024

PROFESSIONAL LAND SURVEYOR KEITH WETENDORF 3703 DOWNERS GROVE, ILLINOIS STATE OF ILLINOIS

SURVEYOR'S CERTIFICATE

STATE OF ILLINOIS } SS
COUNTY OF DUPAGE }

THIS IS TO CERTIFY THAT I, KEITH A. WETENDORF, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT THE ANNEXED PLAT HAS BEEN PREPARED FROM EXISTING RECORDS FOR THE PURPOSE OF GRANTING AN EASEMENT. THIS PLAT WAS PREPARED BY C.M. LAVOIE AND ASSOCIATES, ILLINOIS DESIGN FIRM # 184003041-0012 UNDER MY DIRECT SUPERVISION.

GIVEN UNDER MY HAND AND SEAL THIS 30th DAY OF JANUARY, A.D., 2023.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3703
LICENSE TO BE RENEWED NOVEMBER 30, 2024

PROFESSIONAL LAND SURVEYOR KEITH WETENDORF 3703 DOWNERS GROVE, ILLINOIS STATE OF ILLINOIS

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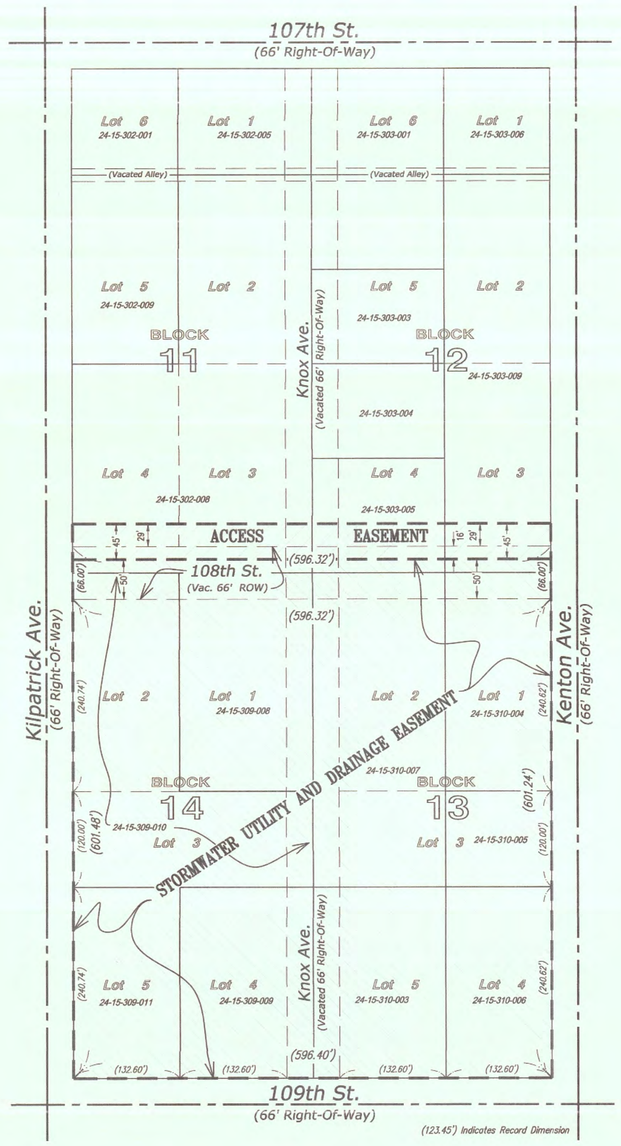
These plans are protected under the copyright laws of the United States and foreign countries, and are to be used only for the construction and/or repair of the Site Improvements as defined in the contract between the Engineer and the Owner. Any use of these plans, including details and specifications, to construct and/or repair additional items not described in these plans, constitutes a violation of the Engineer's copyright of these plans and is prohibited.



LEGAL DESCRIPTION OF OWNER'S PARCEL:

ALL OF BLOCKS 11,12, 13 AND 14 IN FREDERICK H. BARTLETT'S HIGHWAY ACRES, A SUBDIVISION OF THE SOUTH HALF OF THE WEST HALF OF THE NORTHWEST QUARTER AND THE WEST HALF OF THE SOUTHWEST QUARTER OF SECTION 15, TOWNSHIP 37 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED MARCH 28, 1925 AS DOCUMENT NUMBER 8338596; ALSO: THE VACATED RIGHT-OF-WAY OF 108TH STREET FROM THE EAST LINE OF KILPATRICK AVENUE TO THE WEST LINE OF LENTON AVENUE; ALSO: THE VACATED RIGHT-OF-WAY OF KNOX AVENUE FROM THE SOUTH LINE OF 107TH STREET TO THE NORTH LINE OF 109TH ST., ALL IN COOK COUNTY, ILLINOIS.

LEGAL DESCRIPTION OF ACCESS EASEMENT:

THE NORTH 16 FEET OF THE VACATED 66 FOOT RIGHT-OF-WAY OF 108TH STREET FROM THE EAST LINE OF KILPATRICK AVENUE TO THE WEST LINE OF KENTON AVENUE, AND THE SOUTH 29 FEET OF LOTS 3 AND 4 OF BLOCK 11 AND LOTS 3 AND 4 OF BLOCK 12, AND THE SOUTH 29 FEET OF VACATED KNOX AVENUE LOCATED NORTH OF VACATED 108TH STREET, IN THE WEST HALF OF THE SOUTHWEST QUARTER OF SECTION 15, TOWNSHIP 37 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

LEGAL DESCRIPTION OF STORMWATER UTILITY AND DRAINAGE EASEMENT:

ALL OF BLOCKS 13 AND 14 IN FREDERICK H. BARTLETT'S HIGHWAY ACRES, A SUBDIVISION OF THE SOUTH HALF OF THE WEST HALF OF THE NORTHWEST QUARTER AND THE WEST HALF OF THE SOUTHWEST QUARTER OF SECTION 15, TOWNSHIP 37 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED MARCH 28, 1925 AS DOCUMENT NUMBER 8338596; ALSO: THE VACATED 66 FOOT RIGHT-OF-WAY OF KNOX AVENUE FROM THE SOUTH LINE OF 108TH STREET TO THE NORTH LINE OF 109TH ST., ALSO; VACATED 108TH STREET (EXCEPT THE NORTH 16 FEET THEREOF FROM THE EAST LINE OF KILPATRICK AVENUE TO THE WEST LINE OF KENTON AVENUE, ALL IN COOK COUNTY, ILLINOIS.

STORMWATER UTILITY AND DRAINAGE EASEMENT:

A PERPETUAL STORMWATER UTILITY AND DRAINAGE EASEMENT IN, OVER, UPON, ACROSS, UNDER, OR THROUGH THE AREA DESIGNATED AS "STORMWATER UTILITY AND DRAINAGE EASEMENT" AND LEGALLY DESCRIBED ON THIS PLAT, IS HEREBY GRANTED TO THE VILLAGE OF OAK LAWN, ITS AGENTS, INDEPENDENT CONTRACTORS, SUCCESSORS AND ASSIGNS, FOR THE RIGHT, PRIVILEGE AND AUTHORITY TO TAKE ANY AND ALL ACTIONS FOR THE FOLLOWING PURPOSES: A) SURVEYING, CONSTRUCTING, RECONSTRUCTING, REPLACING, REPAIRING, INSPECTING, MAINTAINING AND OPERATING STORMWATER UTILITY MANAGEMENT AND DRAINAGE FACILITIES, STRUCTURES AND GRADES FOR ABOVE AND BELOW GROUND STORMWATER DETENTION/RETENTION, MANAGEMENT AND DRAINAGE PURPOSES ON AND UNDER THE STORMWATER UTILITY AND DRAINAGE EASEMENT PREMISES. THE STORMWATER MANAGEMENT AND DRAINAGE FACILITIES MAY INCLUDE, BUT SHALL NOT BE LIMITED TO, A DETENTION/RETENTION AREA, PUMP STATION, DRAINAGE SYSTEM AND ASSOCIATED LIFT STATION, ALONG WITH AN UNDERDRAIN, PUMPS, PIPE-NETWORKING, AND STORM SEWER CONNECTIONS (COLLECTIVELY, THE "STORMWATER MANAGEMENT AND DRAINAGE FACILITIES"); B) THE RIGHT OF ACCESS FOR ANY NECESSARY PERSONS AND EQUIPMENT ONTO THE STORMWATER UTILITY AND DRAINAGE EASEMENT PREMISES TO PERFORM THE ACTIVITIES SPECIFIED IN PARAGRAPH A; C) TRIMMING, OR REMOVING TREES, SHRUBS OR OTHER PLANTS IN THE STORMWATER UTILITY AND DRAINAGE EASEMENT PREMISES THAT INTERFERE WITH THE OPERATIONS OF OR ACCESS TO THE STORMWATER MANAGEMENT AND DRAINAGE FACILITIES IN, OVER, UPON, ACROSS, UNDER OR THROUGH THE STORMWATER UTILITY AND DRAINAGE EASEMENT PREMISES. GRANTOR ACKNOWLEDGES THAT THE EASEMENT GRANTED HEREIN SHALL PERMIT THE GRANTEE VILLAGE, IN ADDITION TO THE OTHER RIGHTS GRANTED TO GRANTEE, TO FLOOD THE STORMWATER UTILITY AND DRAINAGE EASEMENT PREMISES WITH STORM WATERS, WHICH SHALL THEN DRAIN FROM THE PREMISES IN A CONTROLLED FASHION.

THE STORMWATER MANAGEMENT AND DRAINAGE FACILITIES SHALL BE CONSTRUCTED, AT THE GRANTEE VILLAGE'S SOLE COST AND EXPENSE, IN A GOOD AND WORKMANLIKE MANNER, IN ACCORDANCE WITH ALL APPLICABLE LAWS AND ORDINANCES. THE VILLAGE SHALL PROVIDE GRANTOR WITH FINAL WAIVERS OF LIEN UPON COMPLETION.

THE GRANTEE VILLAGE SHALL, AT ITS SOLE COST AND EXPENSE, PROMPTLY RESTORE TO ITS FORMER CONDITION ANY PORTION OF THE STORMWATER UTILITY AND DRAINAGE EASEMENT PREMISES WHICH IS DISTURBED DUE TO THE SURVEYING, CONSTRUCTION, RECONSTRUCTION, REPLACEMENT, REPAIR, INSPECTION, MAINTENANCE, AND OPERATION OF THE STORMWATER MANAGEMENT AND DRAINAGE FACILITIES. SUCH RESTORATION SHALL INCLUDE LIKE-KIND AND LIKE-QUALITY OR BETTER FACILITIES AND REPLACEMENT STRUCTURES AND MATERIALS, INCLUDING BASEBALL BACKSTOPS, ALTHOUGH THE VILLAGE DOES NOT WARRANT OR GUARANTY THAT THE REPLACEMENT STRUCTURES AND MATERIALS WILL BE AN EXACT MATCH IN TERMS OF COLOR, TEXTURE, FINISH, QUALITY OR LOCATION.

THE VILLAGE SHALL, AT ITS SOLE COST AND EXPENSE, BE RESPONSIBLE FOR THE SURVEYING, CONSTRUCTION, RECONSTRUCTION, REPLACEMENT, REPAIR, INSPECTION, MAINTENANCE, AND OPERATION OF THE STORMWATER MANAGEMENT AND DRAINAGE FACILITIES UNDERGROUND AND ANY SURFACE STRUCTURES OR APPERTUNANCES THAT ARE A PART OF THE FACILITIES. GRANTOR SHALL CONTINUE, AT GRANTOR'S SOLE COST AND EXPENSE, TO MAINTAIN ALL SURFACE AREAS AND FACILITIES WITHIN THE STORMWATER UTILITY AND DRAINAGE EASEMENT PREMISES, INCLUDING, BUT NOT LIMITED TO, MOWING, LANDSCAPE MAINTENANCE, AND MAINTENANCE OF PERMITTED STRUCTURES WITHIN THE STORMWATER UTILITY AND DRAINAGE EASEMENT PREMISES.

SAID PREMISES MAY BE USED FOR OTHER PURPOSES, INCLUDING, BUT NOT LIMITED TO, USE AS SPORTS FIELDS AND FOR OTHER LEISURE ACTIVITIES, SO LONG AS SUCH USES DO NOT NOW OR LATER CONFLICT WITH THE AFORESAID USES OR RIGHTS OR IN ANY WAY EFFECT OR IMPEDE THE STORAGE OF FREE FLOW OF STORMWATER IN, OVER, UPON, ACROSS, UNDER, OR THROUGH THE EASEMENT PREMISES. EXCEPT FOR THE FACILITIES AND REPLACEMENT STRUCTURES RESTORED FOLLOWING COMPLETION OF CONSTRUCTION REFERENCED ABOVE, INCLUDING BASEBALL BACKSTOPS, NO PERMANENT BUILDINGS OR STRUCTURES SHALL BE CONSTRUCTED ON THE SURFACE OF THE STORMWATER UTILITY AND DRAINAGE EASEMENT PREMISES WITHOUT THE PRIOR APPROVAL AS TO LOCATION AND DESIGN OF THE GRANTEE VILLAGE SO AS TO NOT TO INTERFERE WITH THE STORMWATER MANAGEMENT AND DRAINAGE FACILITIES. INSTALLATION OF UTILITIES BY OTHER PUBLIC UTILITIES OR UTILITY ENTITIES SHALL BE SUBJECT TO THE PRIOR APPROVAL, AS TO LOCATION AND DESIGN, OF THE GRANTEE VILLAGE SO AS NOT TO INTERFERE WITH THE STORMWATER MANAGEMENT AND DRAINAGE FACILITIES. THE PROVISIONS HEREOF REGARDING THE STORMWATER UTILITY AND DRAINAGE EASEMENT SHALL NOT BE AMENDED, MODIFIED, OR ABROGATED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE VILLAGE.

THIS EASEMENT, AND ALL THE RIGHTS, CONDITIONS, COVENANTS AND INTERESTS SET FORTH HEREIN AND CREATED HEREBY ARE INTENDED TO AND SHALL RUN WITH THE LAND AND THE STORMWATER UTILITY AND DRAINAGE EASEMENT PREMISES AND SHALL BE BINDING UPON AND INURING TO THE BENEFIT OF THE GRANTOR AND THE GRANTEE AND THEIR RESPECTIVE SUCCESSORS AND ASSIGNS.

ACCESS EASEMENT PROVISIONS:

A PERPETUAL NON-EXCLUSIVE EASEMENT OVER, UPON, ACROSS AND THROUGH THE AREA DESIGNATED AS "ACCESS EASEMENT" AND LEGALLY DESCRIBED ON THIS PLAT, IS HEREBY GRANTED TO THE VILLAGE OF OAK LAWN, ITS AGENTS, INDEPENDENT CONTRACTORS, SUCCESSORS AND ASSIGNS, FOR INGRESS AND EGRESS TO AND FROM THE STORMWATER UTILITY AND DRAINAGE EASEMENT PREMISES FOR THE PURPOSES OF SURVEYING, CONSTRUCTING, RECONSTRUCTING, REPLACING, REPAIRING, INSPECTING, MAINTAINING AND OPERATING THE STORMWATER MANAGEMENT AND DRAINAGE FACILITIES ON THE STORMWATER UTILITY AND DRAINAGE EASEMENT PREMISES. GRANTOR SHALL CONTINUE TO HAVE FULL RESPONSIBILITY, AT ITS SOLE COST AND EXPENSE, FOR THE MAINTENANCE, REPAIR AND REPLACEMENT OF THE ACCESS EASEMENT PREMISES, INCLUDING BUT NOT LIMITED TO MOWING AND SNOW PLOWING.

THIS DOES NOT REQUIRE THE COUNTY CLERK'S ENDORSEMENT PER 35 ILCS 200/9-55
DATE: Mar. 27, 2023 COUNTY CLERK

0 50 100 200
SCALE: 1" = 100'

N

POLARIS PARK

4625 W. 107th ST.
OAK LAWN, ILLINOIS

PLAT OF EASEMENT

DRAWN BY: KaW	CHECKED BY: CML
SCALE: 1" = 30'	DATE: 01-30-2023
JOB NUMBER: 22-154	SHEET: 1 of 1

C.M. Lavoie & Associates, INC.
Consulting Civil Engineering
Land Planning & Surveying
633 Rogers St., Suite 111
Downers Grove, Illinois 60515
phone: 630-381-0819

#	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

C:\Users\tparmenter\CM Lavoie Dropbox\Tim Parmenter\Project Data 2012 - Present\2022 Projects\22-271 Oak Lawn Polaris Park\Survey\23-0101 Stormwater Easement Work\DWG\23-0131
DocuSign Envelope ID: F14D710F-4061-43EE-B408-38BC93464 1A7

VILLAGE OF OAK LAWN
NOTICE OF NON-COMPLIANCE

Project: _____

General Contractor: _____

Subcontractor: _____

Date: _____

Pay Item No. _____

Pay Item _____

Location (Street): _____

Station: _____

Description of Non-Compliance: _____
_____
_____

Direction of Engineer: _____
_____
_____

Contractor Explanation: _____
_____
_____
_____

Printed Name of Contractor's Foreman: _____

Signature: _____

Printed Name of Engineer: _____

Signature: _____

cc: Bill Meyer – Village of Oak Lawn

CONTRACTOR'S COMMENCE AND COMPLETION FORM
FOR UNDERGROUND WORK

This form is to be completed by the Contractor prior to commencement of underground work. The intent is for the Contractor and the Resident Engineer to agree on a commencement and completion date of all underground work on each street. The Contractor shall submit this form for sign-off by the Resident Engineer and submittal to the Director of Public Works.

Street Name: _____

Work Commencement/Completion Date: _____

Contractor Signature: _____

Resident Engineer Signature: _____

By the Contractor signing this agreement he understands that he/she must meet the schedule of working days outlined above to complete the above work or $500.00 per working day per street will be deducted from monies due to the Contractor. The working days shall start on the day/date that construction for street resurfacing begins on that roadway.

cc: Bill Meyer – Village of Oak Lawn

CONTRACTOR'S COMMENCE AND COMPLETION FORM
FOR PCC SIDEWALK, CURB, AND DRIVEWAY APRON WORK

This form is to be completed by the Contractor prior to the curb and driveway apron removal. The intent is for the Contractor and the Resident Engineer to agree on a commencement and completion date of the PCC sidewalk, curb, and driveway apron work on the designated street. The Contractor shall submit this form for sign-off by the Resident Engineer and submittal to the Director of Public Works.

Street Name: _____

Work Commencement Date: _____

Work Completion Date: _____

Contractor Signature: _____

Resident Engineer Signature: _____

By the Contractor signing this agreement he understands that he/she has SEVEN working days to complete the above work or $500.00 per working day per driveway will be deducted from monies due to the Contractor. There shall be a minimum 72-hour cure period for the concrete curb and concrete driveway aprons after the concrete has been poured. The SEVEN working days shall start on the day of removal of all or part of the existing concrete. The Contractor shall install temporary "No Parking" signs prior to saw cutting for removal of the curb and gutter at required locations and per the Engineer's request.

cc: Bill Meyer – Village of Oak Lawn

CONTRACTOR'S COMMENCE AND COMPLETION FORM
FOR GRIND, PROOF ROLL, PATCH/REPAIR/INSTALL BASE COURSE, INSTALL BINDER/LEVEL BINDER AND SURFACE COURSE WORK

This form is to be completed by the Contractor prior to the pavement removal of each street. The intent is for the Contractor and the Resident Engineer to agree on a commencement and completion date for the grind, proof roll, patch/repair/installation of base course, and placement of binder/level binder and surface course. The Contractor shall submit this form for sign-off by the Resident Engineer and submittal to the Director of Public Works.

Street Name: _____

Work Commencement Date: _____

Work Completion Date: _____

Contractor Signature: _____

Resident Engineer Signature: _____

By the Contractor signing this agreement he understands that he/she has TEN working days to complete the above work or $500.00 per working day per street will be deducted from monies due to the Contractor. The TEN working days shall start on the day of the pavement removal commencement.

cc: Bill Meyer – Village of Oak Lawn

CONTRACTOR'S COMMENCE AND COMPLETION FORM
FOR FINAL CLEAN-UP OF THE WORK SITE

This form is to be completed by the Contractor prior to final clean-up of the work site. The intent is for the Contractor and the Resident Engineer to agree on a commencement and completion date of the final clean-up of the work site on each street. The Contractor shall submit this form for sign-off by the Resident Engineer and submittal to the Director of Public Works.

Street Name: _____

Work Commencement/Completion Date: _____

Contractor Signature: _____

Resident Engineer Signature: _____

By the Contractor signing this agreement he understands that he/she has ONE working day to complete the above work or $500.00 per working day per street will be deducted from monies due to the Contractor. The ONE working day shall start on the day after the surface course has been completely installed.

cc: Bill Meyer – Village of Oak Lawn

CONTRACTOR'S COMMENCE AND COMPLETION FORM
FOR LANDSCAPE RESTORATION WORK

This form is to be completed by the Contractor prior to commencement of landscape restoration work. The intent is for the Contractor and the Resident Engineer to agree on a commencement and completion date of all landscape restoration work on each street. The Contractor shall submit this form for sign-off by the Resident Engineer and submittal to the Director of Public Works.

Street Name: _____

Work Commencement/Completion Date: _____

Contractor Signature: _____

Resident Engineer Signature: _____

By the Contractor signing this agreement he understands that he/she has THREE working days to complete the above work or $500.00 per working day per street will be deducted from monies due to the Contractor. The THREE working days shall start on the day after the final site clean-up has been completed.

cc: Bill Meyer – Village of Oak Lawn