

## INVITATION TO BID

The Village of Hoffman Estates is accepting sealed bids for the proposed work officially known as the **2023 Storm Sewer Rehabilitation Project**, and is located at various sites in Hoffman Estates.

Sealed proposals for the improvement described herein will be received at the Office of the Village Clerk of the Village of Hoffman Estates, Cook County, Illinois, **until 11:00 a.m., July 11<sup>th</sup>, 2023**. All bids will be publicly opened immediately thereafter.

For work to be constructed under the provisions of the Standard Specifications for Road and Bridge Construction published by the Illinois Department of Transportation, current edition.

The proposed improvements include, but not limited to, the installation of cured-in-place pipe liner (CIPP), manhole installation, pipe replacement, and other specified repairs, within existing corrugated metal pipe (CMP) storm sewer mains of various diameter sizes, and incidental items not listed herein.

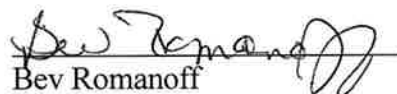
Plans and proposal forms are available for download from the Village of Hoffman Estates website at [www.hoffmanestates.org/business/rfps-rfqs-bids](http://www.hoffmanestates.org/business/rfps-rfqs-bids) beginning Monday, June 26<sup>th</sup>, 2023.

All proposals must be accompanied by a proposal guaranty as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals contained in the "Local Roads and Streets Recurring Special Provisions".

The Village of Hoffman Estates strongly encourages minority firms and women's business enterprises to apply. If subcontracts are to be let, the primary contractor shall take these same affirmative steps to solicit bids from minority and women's firms.

The Village of Hoffman Estates reserves the right to reject any or all proposals and waive any informality in bidding and to accept the proposal deemed most advantageous to it, all in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals contained in the "Local Roads and Streets Recurring Special Provisions".

By order of the President and Board of Trustees of the Village of Hoffman Estates.

  
Bev Romanoff  
Village Clerk

Date of Publication: Monday, June 26<sup>th</sup>, 2023



Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Hoffman Estates	Cook	22706	Various

**NOTICE TO BIDDERS**

Sealed proposals for the project described below will be received at the office of the Village Clerk  
 \_\_\_\_\_  
 Name of Office  
1900 Hassell Road, Hoffman Estates, IL 60169 until 11:00 AM on 07/11/23  
 \_\_\_\_\_  
 Address Time Date

Sealed proposals will be opened and read publicly at the office of Frank Alexa Training Room  
 \_\_\_\_\_  
 Name of Office  
1900 Hassell Road, Hoffman Estates, IL 60169 at 11:00 AM on 07/11/23  
 \_\_\_\_\_  
 Address Time Date

**DESCRIPTION OF WORK**

Location	Project Length
Various	0.76 miles

Proposed Improvement  
Lining of corrugated metal storm sewers pipes, and storm sewer pipe replacement at various locations in Hoffman Estates

1. Plans and proposal forms will be available in the office of  
Plans and proposal forms are available for download from the Village of Hoffman Estates website at [www.hoffmanestates.org/business/rfps-rfq-bids](http://www.hoffmanestates.org/business/rfps-rfq-bids) beginning June 26, 2023.

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 Hoffman Estates	Cook	22706	Various

**PROPOSAL**

1. Proposal of \_\_\_\_\_ Contractor's Name \_\_\_\_\_

Contractor's Address \_\_\_\_\_

2. The plans for the proposed work are those prepared by the Village of Hoffman Estates and approved by the Department of Transportation on \_\_\_\_\_.

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

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

5. The undersigned agrees to complete the work within \_\_\_\_\_ working days or by 04/30/24 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 of Hoffman Estates Treasurer of \_\_\_\_\_.

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 Hoffman Estates	Cook	22706	Various

## 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.

- 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.
- 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.

- 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.
- 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

Attest:

Secretary

Secretary

Treasurer



Contractor's Name

Contractor's Address

City

State

Zip Code

Local Public Agency

County

Section Number

Route(s) (Street/Road Name)

**Schedule for Multiple Bids**

Combination Letter	Section Included in Combinations	Total

**Schedule for Single Bid**

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

Item Number	Items	Unit	Quantity	Unit Price	Total
20201200	REM & DISP UNSUIT MAT'L	CU YD	10		
20800150	TRENCH BACKFILL	CU YD	8		
HE252000	SODDING, SPECIAL	SQ YD	18		
HE351001	AGG SUBGRADE IMPROVE	CU YD	10		
444201365	CL C PATCH T2 11	SQ YD	5		
HE424000	PCC SIDEWALK, 5"	SQ FT	288		
HE424008	DET WARNING SPL	SQ FT	20		
44000600	SIDEWALK REMOVAL	SQ FT	288		
HE550A12	SS RG CLASS A TYPE 1, 12"	FOOT	7		
HE550A24	SS RG CLASS A TYPE 1, 24"	FOOT	22		
55100500	STORM SEWER REM 12"	FOOT	7		
55101200	STORM SEWER REM 24"	FOOT	22		
X5430224	CUR-IN-PL PIPE LNR 24"	FOOT	830		
X5430230	CUR-IN-PL PIPE LNR 30"	FOOT	160		
X5430236	CUR-IN-PL PIPE LNR 36"	FOOT	540		
X5430242	CUR-IN-PL PIPE LNR 42"	FOOT	476		
X5430248	CUR-IN-PL PIPE LNR 48"	FOOT	1,310		
X5430448	SPRY-AP PIPE LNR 48"	FOOT	685		
X5538000	HEAVY CLEANING SS	FOOT	685		
HE602500	MANHOLES 5 FOOT DIA	EACH	1		
HE604060	F&L STORM TY 1 CL LID SPL	EACH	2		
HE606300	COMB CONC C&G R&R SPL	FOOT	41		
HE701014	TRAF CONT PROT	LS	1		
<b>Bidder's Total Proposal</b>					

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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.



Local Public Agency Proposal Bid Bond

Local Public Agency: Village of Hoffman Estates; County: Cook; Section Number: 22706

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 \_\_\_\_\_ of \_\_\_\_\_ Day Month and Year

Principal and Surety signature blocks with fields for Company Name, Signature & Date, and Title.

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

Name of Surety and Signature of Attorney-in-Fact Signature & Date fields.

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 of \_\_\_\_\_ Month and Year

(SEAL, if required by the LPA)

Notary Public Signature & Date and Date commission expires fields.

Local Public Agency

County

Section Number

Village of Hoffman Estates

Cook

22706

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

--





# Apprenticeship and Training Program Certification

Local Public Agency	County	Street Name/Road Name	Section Number
Village of Hoffman Estates	Cook	Various	22706

**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		
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 40px;"></div>		
Title			
<div style="border: 1px solid black; height: 20px;"></div>			
Address	City	State	Zip Code
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>



**Affidavit of Illinois Business Office**

Local Public Agency	County	Street Name/Road Name	Section Number
Village of Hoffman Estates	Cook	Various	22706

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

My commission expires \_\_\_\_\_

(SEAL)

INDEX  
FOR  
SUPPLEMENTAL SPECIFICATIONS  
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2023

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

ERRATA    Standard Specifications for Road and Bridge Construction                      (Adopted 1-1-22) (Revised 1-1-23)

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420 Portland Cement Concrete Pavement .....	6
502 Excavation for Structures .....	7
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540 Box Culverts .....	9
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1030 Hot-Mix Asphalt .....	44
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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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## Check Sheet for Recurring Special Provisions

Local Public Agency	County	Section Number
Village of Hoffman Estates	Cook	22706

**Check this box for lettings prior to 01/01/2023.**

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

Recurring Special Provisions

<u>Check Sheet #</u>		<u>Page No.</u>
1	<input type="checkbox"/> Additional State Requirements for Federal-Aid Construction Contracts	53
2	<input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts)	56
3	<input type="checkbox"/> EEO	57
4	<input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts	67
5	<input type="checkbox"/> Required Provisions - State Contracts	72
6	<input type="checkbox"/> Asbestos Bearing Pad Removal	78
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos HMA Surface Removal	79
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	80
9	<input type="checkbox"/> Construction Layout Stakes	81
10	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	84
11	<input type="checkbox"/> Subsealing of Concrete Pavements	86
12	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	90
13	<input type="checkbox"/> Pavement and Shoulder Resurfacing	92
14	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	93
15	<input type="checkbox"/> Polymer Concrete	95
16	<input type="checkbox"/> Reserved	97
17	<input type="checkbox"/> Bicycle Racks	98
18	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals	100
19	<input type="checkbox"/> Nighttime Inspection of Roadway Lighting	102
20	<input type="checkbox"/> English Substitution of Metric Bolts	103
21	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	104
22	<input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant	105
23	<input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	113
24	<input type="checkbox"/> Reserved	129
25	<input type="checkbox"/> Reserved	130
26	<input type="checkbox"/> Temporary Raised Pavement Markers	131
27	<input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam	132
28	<input type="checkbox"/> Portland Cement Concrete Inlay or Overlay	135
29	<input type="checkbox"/> Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	139
30	<input type="checkbox"/> Longitudinal Joint and Crack Patching	142
31	<input type="checkbox"/> Concrete Mix Design - Department Provided	144
32	<input type="checkbox"/> Station Numbers in Pavements or Overlays	145

Local Public Agency

County

Section Number

Village of Hoffman Estates

Cook

22706

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

Local Roads And Streets Recurring Special Provisions

<u>Check Sheet #</u>		<u>Page No.</u>
LRS 1	<b>Reserved</b>	147
LRS 2	<input type="checkbox"/> Furnished Excavation	148
LRS 3	<input checked="" type="checkbox"/> Work Zone Traffic Control Surveillance	149
LRS 4	<input checked="" type="checkbox"/> Flaggers in Work Zones	150
LRS 5	<input checked="" type="checkbox"/> Contract Claims	151
LRS 6	<input checked="" type="checkbox"/> Bidding Requirements and Conditions for Contract Proposals	152
LRS 7	<input type="checkbox"/> Bidding Requirements and Conditions for Material Proposals	158
LRS 8	<b>Reserved</b>	164
LRS 9	<input type="checkbox"/> Bituminous Surface Treatments	165
LRS 10	<b>Reserved</b>	169
LRS 11	<input checked="" type="checkbox"/> Employment Practices	170
LRS 12	<input checked="" type="checkbox"/> Wages of Employees on Public Works	172
LRS 13	<input checked="" type="checkbox"/> Selection of Labor	174
LRS 14	<input type="checkbox"/> Paving Brick and Concrete Paver Pavements and Sidewalks	175
LRS 15	<input checked="" type="checkbox"/> Partial Payments	178
LRS 16	<input checked="" type="checkbox"/> Protests on Local Lettings	179
LRS 17	<input checked="" type="checkbox"/> Substance Abuse Prevention Program	180
LRS 18	<input type="checkbox"/> Multigrade Cold Mix Asphalt	181
LRS 19	<input type="checkbox"/> Reflective Crack Control Treatment	182

BDE SPECIAL PROVISIONS  
For the August 4, 2023 and September 22, 2023 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	<input type="checkbox"/>	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2022
	80274	2	<input type="checkbox"/>	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2022
	80192	3	<input type="checkbox"/>	Automated Flagger Assistance Devices	Jan. 1, 2008	April 1, 2023
	80173	4	<input type="checkbox"/>	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
	80426	5	<input type="checkbox"/>	Bituminous Surface Treatment with Fog Seal	Jan. 1, 2020	Jan. 1, 2022
	80436	6	<input type="checkbox"/>	Blended Finely Divided Minerals	April 1, 2021	
*	80241	7	<input type="checkbox"/>	Bridge Demolition Debris	July 1, 2009	
*	50531	8	<input type="checkbox"/>	Building Removal	Sept. 1, 1990	Aug. 1, 2022
*	50261	9	<input type="checkbox"/>	Building Removal with Asbestos Abatement	Sept. 1, 1990	Aug. 1, 2022
	80449	10	<input type="checkbox"/>	Cement, Type IL	Aug. 1, 2023	
	80384	11	<input type="checkbox"/>	Compensable Delay Costs	June 2, 2017	April 1, 2019
*	80198	12	<input type="checkbox"/>	Completion Date (via calendar days)	April 1, 2008	
*	80199	13	<input type="checkbox"/>	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
	80261	14	<input type="checkbox"/>	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
	80434	15	<input type="checkbox"/>	Corrugated Plastic Pipe (Culvert and Storm Sewer)	Jan. 1, 2021	
*	80029	16	<input type="checkbox"/>	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Mar. 2, 2019
	80229	17	<input type="checkbox"/>	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
	80447	18	<input type="checkbox"/>	Grading and Shaping Ditches	Jan. 1, 2023	
	80433	19	<input type="checkbox"/>	Green Preformed Thermoplastic Pavement Markings	Jan. 1, 2021	Jan. 1, 2022
	80443	20	<input type="checkbox"/>	High Tension Cable Median Barrier Removal	April 1, 2022	
	80446	21	<input type="checkbox"/>	Hot-Mix Asphalt - Longitudinal Joint Sealant	Nov. 1, 2022	Aug. 1, 2023
	80438	22	<input type="checkbox"/>	Illinois Works Apprenticeship Initiative – State Funded Contracts	June 2, 2021	Sept. 2, 2021
	80045	23	<input type="checkbox"/>	Material Transfer Device	June 15, 1999	Jan. 1, 2022
	80450	24	<input type="checkbox"/>	Mechanically Stabilized Earth Retaining Walls	Aug. 1, 2023	
	80441	25	<input type="checkbox"/>	Performance Graded Asphalt Binder	Jan. 1, 2023	
	80451	26	<input checked="" type="checkbox"/>	Portland Cement Concrete	Aug. 1, 2023	
*	34261	27	<input type="checkbox"/>	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2022
	80445	28	<input type="checkbox"/>	Seeding	Nov. 1, 2022	
	80448	29	<input type="checkbox"/>	Source of Supply and Quality Requirements	Jan. 2, 2023	
	80340	30	<input type="checkbox"/>	Speed Display Trailer	April 2, 2014	Jan. 1, 2022
	80127	31	<input type="checkbox"/>	Steel Cost Adjustment	April 2, 2004	Jan. 1, 2022
	80397	32	<input type="checkbox"/>	Subcontractor and DBE Payment Reporting	April 2, 2018	
	80391	33	<input type="checkbox"/>	Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
	80437	34	<input type="checkbox"/>	Submission of Payroll Records	April 1, 2021	Nov. 1, 2022
	80435	35	<input type="checkbox"/>	Surface Testing of Pavements – IRI	Jan. 1, 2021	Jan. 1, 2023
	80410	36	<input type="checkbox"/>	Traffic Spotters	Jan. 1, 2019	
*	20338	37	<input type="checkbox"/>	Training Special Provisions	Oct. 15, 1975	Sept. 2, 2021
	80429	38	<input type="checkbox"/>	Ultra-Thin Bonded Wearing Course	April 1, 2020	Jan. 1, 2022
	80439	39	<input type="checkbox"/>	Vehicle and Equipment Warning Lights	Nov. 1, 2021	Nov. 1, 2022
	80440	40	<input type="checkbox"/>	Waterproofing Membrane System	Nov. 1, 2021	
	80302	41	<input type="checkbox"/>	Weekly DBE Trucking Reports	June 2, 2012	Nov. 1, 2021
	80427	42	<input checked="" type="checkbox"/>	Work Zone Traffic Control Devices	Mar. 2, 2020	
*	80071	43	<input type="checkbox"/>	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 have been deleted from use.

<u>File Name</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
50481	Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50491	Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010

The following special provisions are in the 2023 Supplemental Specifications and Recurring Special Provisions.

<u>File Name</u>	<u>Special Provision Title</u>	<u>New Location(s)</u>	<u>Effective</u>	<u>Revised</u>
80293	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	Articles 540.04 & 540.06	April 1, 2012	July 1, 2016
80311	Concrete End Sections for Pipe Culverts	Articles 540.07, 542.01, 542.02, 542.07, 542.11 & 542.12	Jan. 1, 2013	April 1, 2016
80422	High Tension Cable Median Barrier	Articles 644.02, 644.05, 782.01, 782.04, 782.07 & 1097.02	Jan. 1, 2020	Jan. 1, 2022
80442	Hot-Mix Asphalt	Articles 1030.09 & 1030.10	Jan. 1, 2022	Aug. 1, 2022
80444	Hot-Mix Asphalt – Patching	Errata – Article 442.08(b)	April 1, 2022	
80411	Luminaires, LED	Articles 801.05(a), 821.02(d), 821.03, 821.08 & 1067.01-1067.06	April 1, 2019	Jan. 1, 2022
80418	Mechanically Stabilized Earth Retaining Walls	Articles 1003.07 & 1004.06	Nov. 1, 2019	Nov. 1, 2020
80430	Portland Cement Concrete – Haul Time	Article 1020.11(a)(7)	July 1, 2020	
80395	Sloped Metal End Section for Pipe Culverts	Articles 540.07, 542.01, 542.02, 542.07, 542.11 & 542.12	Jan. 1, 2018	
80318	Traversable Pipe Grate for Concrete End Sections	Articles 540.04, 540.07, 540.08 & 542.01, 542.02, 542.07, 542.11 & 542.12	Jan. 1, 2013	Jan. 1, 2018

**2023 Storm Sewer Rehabilitation Project  
SPECIAL PROVISIONS INDEX**

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**VILLAGE OF HOFFMAN ESTATES**  
**2023 STORM SEWER REHABILITATION PROJECT**

**SPECIAL PROVISIONS**

The following Special Provisions supplement the “Standard Specifications for Road and Bridge Construction”, adopted January 1, 2022 (hereinafter referred to as the “Standard Specifications”), the latest edition of the “Manual on Uniform Traffic Control Devices for Streets and Highways”, and the “Manual of Test Procedures of Materials” in effect on the date of invitation of bids, and the “Supplemental Specifications and Recurring Special Provisions” indicated on the Check Sheet included herein, which apply to and govern the construction of Project Number 22706, in Hoffman Estates, Cook County, and in case of conflict with any part, or parts, of said specifications, the said Special Provisions shall take precedence and shall govern.

**DEFINITION**

When referring to the "Department" or "State" in all IDOT Specifications and Special Provisions, the Contractor should be aware that this also means the Village of Hoffman Estates, its agents and/or representatives.

**PROJECT DESCRIPTION**

This Specification covers all work necessary to complete specified repairs of the Village’s storm sewer system. The Contractor shall provide all materials, labor, equipment, and services necessary for traffic control, cleaning and television inspection of sewers to be lined, bypass pumping and/or diversion of sewage flows, CIPP installation (including installation from easements), reconnection of service connections, final television inspection of the lined sewer mains, warranty work, and all other materials, equipment, and procedures necessary to complete the work specified herein.

**SCOPE OF WORK**

The intent of the contract is to provide a complete outline of the work that the Contractor undertakes in full compliance with the plans and specifications. The Contractor shall perform the installation of cured-in-place pipe liner (CIPP), manhole installation, pipe replacement, and other specified repairs, within existing corrugated metal pipe (CMP) storm sewer mains of various diameter sizes, and such additional, extra, and incidental construction as may be necessary to complete the work in an acceptable manner. Due to budgetary constraints, the Village may increase or decrease contract quantities or remove locations of work. No compensation shall be provided to the contractor for any mobilization costs, specifically for changes to quantities.

## GENERAL

The Contractor is herein notified that the Village of Hoffman Estates will require that any questions or clarifications on the contract documents must be made in writing at least three working days prior to the bid opening. No questions or clarifications received after that time will be responded to by the Village. All Contractors who submitted authorization to bid will receive written responses to all inquiries made by all contractors during the bid process no later than two working days prior to the bid opening.

## PROJECT SUPERVISOR

The Contractor shall designate an employee as Project Supervisor. The Project Supervisor shall be required to assume the responsibility for general supervision of the Contractor and subcontractors' operations. The Project Supervisor and the Engineer shall work together to properly control and complete the work for the proposed improvements.

The Project Supervisor is responsible for distribution of the plans to the appropriate construction personnel. Failure of the appropriate construction personnel, doing the actual construction, to have a set of plans with them will be considered cause for stoppage of the construction work from proceeding.

## RESIDENT NOTIFICATION

The Contractor shall be responsible for providing written notification to all residents within the project limits. Notification must be given as follows:

### **Three (3) days prior to work commencing**

The Village will provide the Contractor with sample notification letters. The Engineer must approve any deviations from this format.

## PERMITTED HOURS OF WORK

The Hoffman Estates Municipal Code restricts all construction activity within 500 yards of a residence to the period from 7:00 a.m. to 7:00 p.m. on weekdays and 8:00 a.m. to 6:00 p.m. on weekends and all construction activity greater than 500 yards of a residence to the period from 7:00 a.m. to 10:00 p.m. on weekdays and 8:00 a.m. to 10:00 p.m. on weekends.

## PROJECT SCHEDULE

Prior to commencing construction operations, the Contractor shall meet with the Engineer for the purposes of a preconstruction meeting and present, in writing, his proposed construction schedule for installation of CIPP in accordance with article 108.02 of the Standard Specifications. Once approved, the Contractor must adhere to the schedule so that resident notification and field markings of all items of work may proceed in advance of actual construction.

## ITEMS INCLUDED IN THE COST OF OTHER ITEMS

The Contractor's attention is called to several specific work items as noted on the Contract Plans and Special Provisions and in addition to the lists in the Standard Specifications. Listed below is a listing of these items for general information only. The list is not intended to be all-inclusive and, therefore, the Contractor is responsible to perform all work according to the Plans, Special Provisions and the Standard Specifications.

- The contractor shall maintain all drainage facilities during construction and shall repair any drainage facilities damaged during construction. Cost of this work shall be included in the cost of applicable pay items.
- Whenever, during construction operations, any loose material is deposited in the flow line of drainage structures, ditches, gutters, etc. such that the natural flow of water is obstructed, the loose material will be removed at the close of each working day. At the conclusion of construction operations, all drainage structures and flow lines shall be free from dirt and debris. This work shall be considered included in the cost of the contract.
- Concrete curing materials shall be applied to all new concrete gutter flags, faces and tops of curbs, sidewalks, and driveway pavements in accordance with the requirements of Section 1022 of the Standard Specifications. The protective coat shall be a clear curing compound of similar specifications to W.R. Meadows Seal Tight 1130 clear, Chemmasters Safe-Cure Clear, or Dayton Superior Day-Chem Rez Cure (J-11-W). The contractor shall abide by the Manufacturer's specifications in the preparation and application of the membrane curing compound. This work will not be paid for separately but shall be included in the cost of the applicable pay items.
- Concrete washout shall be provided for all work locations at a location approved by the Engineer. The concrete washout shall follow plan details or approved equivalent. This work will not be paid for separately but shall be included in the cost of the applicable pay items.
- Saw cutting shall be performed at locations where any pavement, concrete driveway, curb and gutter, and sidewalk needs to be replaced, or as directed by the Engineer, and shall be considered included in the cost of applicable pay items. After saw cutting, the Contractor shall immediately remove all concrete or asphalt slurry from the work area, specifically from the pavement, driveway, sidewalk and curb and gutter which is to remain in place. In the event the concrete or asphalt slurry is not removed immediately and the concrete or asphalt slurry cures and adheres to the adjacent surface, the Contractor shall remove and replace the portion with concrete or asphalt slurry to the satisfaction of the Engineer. No additional compensation will be allowed for removal of the slurry or removal and replacement of the adjacent area due to slurry which was not immediately removed from the adjacent area.
- The Contractor shall be responsible for restoration of damage to pavement, curb & gutter, sidewalk, driveways not specified on plans caused by work activities, site access, or

staging. Areas shall be restored to equal or better than existing conditions as directed by the Engineer. This work shall not be paid for separately but shall be included in the cost of the contract.

- Any restoration of lawns, parkways, and other grassed areas disturbed as a result of the work, including topsoil, fertilizer, erosion control materials, sodding, and maintenance to guarantee uniform growth of the seeded areas shall be the responsibility of the contractor. Any areas not deemed to have acceptable growth by the Engineer shall be reseeded, at no additional cost, regardless of the original planting time.
- The contractor shall be required to move, secure, and store any decorative rocks, paver bricks, sprinkler heads, fencing, or landscape items that interfere with construction. Upon completion of the construction, the contractor shall move these items back to their original location and in their original condition. Damaged items must be replaced in-kind. Sprinkler irrigation lines may be repaired with sleeves. Additional restoration may be required to ensure positive drainage for impacted brick paver driveways, aprons, or walkways adjacent to work. This work will be considered included in the cost of the associated pay item that interfered with these features.
- It is the responsibility of the contractor to protect all pavement openings, open holes, equipment, and rubble. Open holes shall not be allowed during non-working hours. All open holes shall be backfilled or covered with steel plates at the end of each working day. The contractor shall maintain high visibility of all temporary hazards to pedestrians and motorists. This work will be considered included in the cost of the associated pay items.
- The contractor shall use all necessary precautions and protection measures required to maintain existing utilities, sewers, and appurtenances that must be kept in operation. In particular, the contractor will take adequate measures to prevent the undermining of utilities and sewers which are still in service. It shall be the contractor's responsibility to protect excavation trenches during the installation of storm sewer to include any shoring or dewatering equipment necessary. This work shall be considered included in the cost of the associated pay items.
- The locations of public or private utilities shown on the plans are approximate and the village does not guarantee their accuracy. The contractor shall have the respective utility company field locate all their facilities prior to beginning construction. The contractor shall cooperate with all utility owners in accordance with Standard Specifications, if utility relocation, adjustment, or protection is necessary. The Village of Hoffman Estates cannot be held responsible and charged by the contractor for any time delays. The contractor shall also verify the depths of the existing utilities if necessary to verify that grade conflicts will not occur with any proposed construction. Any relocation or lowering of utilities shall be coordinated by the contractor. The cost of this exploration shall be included in the cost of associated pay items.
- Protecting open holes, pavement opening, equipment and rubble shall be included in the cost of the contract.

- The contractor shall provide portable toilets at all active project locations. Cost of this work will not be paid for separately but shall be included in the cost of the contract.
- Work within Roselle right-of-way requires issuance of permit from the Cook County Department of Transportation and Highways. Contractor shall be responsible for posting and maintaining required bonding for the permit. Cost of this bonding shall not be paid for separately but shall be included in the cost of the contract.

#### APPLICATION FOR PAYMENT

A written application for payment for work completed shall be submitted to the Village by the Contractor not more than once monthly on a date specified by the Village. The Contractor must submit Partial Waivers of Lien from all subcontractors and suppliers for all materials and labor involved, in the amount of the sum total of the application for payment. When the request for final payment is made, Final Waivers of Lien shall be supplied by the Contractor, subcontractors and all firms which supplied materials or services under this Contract, agreeing that said Contract has been performed, constructed, finished and delivered to the Village free from all claims, liens or charges in the nature of mechanics' liens either in favor of the Contractor or any party, firm or corporation entitled to such lien. The Contractor shall furnish an affidavit stating that all Waivers submitted are the total amount of Waivers required to be submitted. No applications for payment shall be submitted by the Engineer to the Village unless the required Waivers are supplied. Waivers must be furnished by the Contractor to the Engineer at least five days prior to the application for payment submittal date. All contractors and subcontractors shall comply with all applicable state and federal laws including, but not limited to, the Illinois Prevailing Wage Act. Certified Payroll is required from the Contractor and from all subcontractors before payment is released. Failure of the Contractor to submit correct Waivers of Lien at the required time may cause a delay in payment. The issuance of payments for work performed shall in no way lessen the responsibilities of the Contractor.

#### RETAINAGE

Retainage will be held in the amount of ten percent (10%) of the completed work for the first 50 percent of the contract. After 50 percent or more of the work is completed, retainage will be held in the amount of 5 percent. After 75 percent or more of the work is completed, retainage will be held at 5 percent or lower, at the discretion of the Engineer. Retainage will be withheld until all work and punch list deficiencies are completed to the satisfaction of the Engineer.

#### ACCIDENT REPORTING

All accidents occurring on the job which damage public or private property, or result in injuries to worker or other persons, shall be promptly reported to the Engineer and Police Department. Accidents involving utilities shall also be reported to the appropriate utility. This applies to all accidents, including, but not limited to, traffic accidents, broken pipelines, power and telephone facilities, and damage to adjacent properties.



## GENERAL CONTRACTOR OR SUBCONTRACTOR HOLD HARMLESS AGREEMENT

The Contractor shall indemnify and hold harmless the Municipality, its agents, and its employees from and against all claims for personal injury or property damage, including claims against the Village, its agents, or servants, arising out of the Illinois Structural Work Act, and all losses and expenses, including attorney's fees that may be incurred by the Village, defending such claims, arising out of or resulting from the performance of the work and caused in whole or in part by any negligent act or omission of the Contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by the party indemnified hereunder. In any and all claims against the Village or any of its agents, or servants by an employee of a Contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under this paragraph shall not be limited in any way by any limitation on the amount or type of damages, compensation of benefits payable by or for the Contractor or subcontractor under Workers' Compensation Acts, Disability Acts, or their Employee Benefit Acts.

## MATERIAL INSPECTION

All Hot-Mix Asphalt and P.C. Concrete materials used on this project shall be tested and inspected for compliance with the requirements of the IDOT Standard Specifications and the Project Procedure Guide.

The Contractor shall contact the Engineer and Village's testing consultant 48-hours in advance of construction for inspection of all Hot-Mix Asphalt and PCC materials used on this project.

The Contractor is to submit a Q/C plan for HMA and PCC materials to the Q/A Manager for approval prior to construction operations commencing.

All Q/C reports shall be sent to the Village's Q/A Manager as well as to the Engineer.

## MAINTENANCE OF ROADWAYS

Effective: September 30, 1985

Revised: November 1, 1996

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

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

## TRAFFIC CONTROL PLAN

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

Special attention is called to Article 107.09 of the Standard Specifications and the following IDOT Highway Standards, Details, and Special Provisions contained herein, relating to traffic control.

STANDARDS: 701006-05, 701501-06, 701601-09, 701701-10, 701801-06, 701901-08

DETAILS: Traffic Control and Protection for Side Roads, Intersections, and Driveways (TC-10)

### SPECIAL PROVISIONS:

- Maintenance of Roadways
- Traffic Control and Protection
- Public Convenience and Safety (District 1)
- Work Zone Traffic Control Surveillance (LRS 3)
- Flaggers in Work Zones (LRS 4)

The contractor shall notify the Engineer at least 72 hours in advance of any change in traffic staging.

**BASIS OF PAYMENT:** All traffic control and protection will be paid for at the contract lump sum price for **TRAFFIC CONTROL AND PROTECTION**.

## TREES AND SHRUBS

Every effort shall be made by the Contractor when working near trees and shrubs to preserve same from harm. No trees or shrubs shall be removed unless so indicated on the Plans or as authorized in the field by the Engineer. 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 trunk diameters or 12 inches (whichever is greater) of any tree, and no roots over two 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 performed by hand.

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 lath or plank wrappers wired in place to protect tree trunks from being damaged by trench machinery, tractors or trucks. Protective wrappers shall be removed as soon as practical after the work in the vicinity has been completed. In removing soil banks from around trees, handwork will be required as necessary to prevent trunk damage by construction machinery.

Small trees (less than four inches in diameter) and shrubs not indicated for removal, which are removed or severely damaged during construction, shall be replaced in kind and size by the Contractor. Trees larger than one 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 planting shall be done in accordance with Section 253 of the Standard Specifications.

Damages at the rate of sixty-five dollars (\$65.00) per inch of trunk diameter shall be charged against the Contractor for unauthorized removal or destruction of any tree four inches in diameter or larger. No penalty will apply for removal of trees where removal is indicated on the Plans or authorized by the Engineer.

#### SODDING, SPECIAL

This work shall consist of removal of existing grass, preparing the ground surface, placing six (6) inches of topsoil, starter fertilizer, and placement of sod, and watering where designated in the plans or as directed in the field by the Engineer. All work shall be in accordance with the applicable portions of Sections 211, 212, and 252 of the Standard Specifications.

Any backfill material in the right-of-way must be compactable and shall be approved by the Engineer prior to its use.

All areas shall be backfilled and topsoil shall be placed and fine graded within 10 calendar days but not before 3 calendar days of the completion of the curb and gutter, driveway, and sidewalk. Liquidated Damages of \$1,425 per day will be assessed if the backfilling of the parkway or private property is not completed within the above stated time frame. Before the placement of sod in these areas, weeds shall be cut down and removed, and the topsoil shall be additionally fine graded as needed. The maintenance of weeds until final acceptance of sod, to the satisfaction of the Engineer, shall be the responsibility of the contractor. Any additional topsoil that may be required prior to sod placement shall also be the responsibility of the contractor. No additional payment will be allowed for this work.

Undisturbed areas that are required to be graded and sodded shall not be graded or prepped for sod until sod installation can be completed within 14 calendar days, unless otherwise noted by the Engineer.

The Contractor must make sure the topsoil is properly compacted. Any settlement of the sod/seed due to improper placement of the topsoil must be corrected to the satisfaction of the Engineer. Settlement and sod condition will be monitored for up to two (2) years from the completion of the project.

Watering shall be done to ensure the life of the new sod or as directed by the Engineer, in accordance with Article 252.08 and 252.09 of the Standard Specifications except that supplemental watering shall not be measured for payment but shall be included in this item. The Contractor is responsible for the condition of the sod during the construction period of the project until accepted by the Village. The sod will be considered accepted by the Village when the sod is alive, in healthy condition, knitted to the topsoil, and in an acceptable overall condition to the satisfaction of the Engineer.

The limits of SODDING, SPECIAL shall be determined by the Engineer in the field. Any restoration required outside this limit shall be done at the Contractor's expense.

This work shall be paid for at the Contract Unit Price per square yard for SODDING, SPECIAL which price shall include all labor, trimming, shaping, compacting, rolling, equipment, materials, topsoil, backfill materials, fertilizer, sod guarantee and incidentals necessary to complete these items as described above.

#### PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

This work shall consist of constructing a Portland Cement Concrete Sidewalk on a prepared sub grade in accordance with Section 424 of the Standard Specifications at locations shown on the plans or designated by the Engineer in the field.

Any necessary excavation required to bring the sub grade to proper elevation shall NOT be paid for separately and shall be considered included in the cost of this pay item.

All soft and yielding spots or other unsuitable material in the sub grade shall be removed and replaced with suitable material and the sub grade shall be tamped or rolled until thoroughly compacted, as directed by the Engineer. Any necessary excavation of the sub grade shall meet the requirements of and shall be paid for separately as REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS. Backfill material required shall meet the requirements of and shall be paid for separately as AGGREGATE SUBGRADE IMPROVEMENT.

Sidewalk construction shall consist of 5 inch thick Portland Cement Concrete with 4 inches of compacted CA-6, crushed stone placed on approved sub grade. The stone shall meet the requirements of AGGREGATE SUBGRADE IMPROVEMENT, and shall be considered included in the cost of this pay item. Concrete sidewalks marked for replacement within driveway areas shall be installed 6 inches thick. The saw cutting on the existing concrete sidewalks shall not be paid for separately, but shall be considered included in the cost of this pay item.

All formwork must be approved by the Engineer prior to completing work. All concrete forms shall be sized properly to cover the entirety of the slab thickness. Also, the formwork must be installed in a manner to allow for the Engineer to properly determine sidewalk cross slope.

At all sidewalk ramps for the handicapped, work shall be completed in accordance with Project Details and Standards 424001, 424016, 424021, and 424026.

This work shall be paid for at the Contract Unit Price per square foot for PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH which price shall include all labor, equipment, materials and incidentals necessary to complete this item described above.

#### DETECTABLE WARNING (SPECIAL)

Work under this item shall consist of installing cast iron or steel detectable warning tiles as shown on the plans. Work shall be performed according to Section 424 of the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, except as herein modified.

Detectable warning tiles shall be of uniform quality, and free of surface defects. The detectable warnings shall be constructed out of one of the following:

- 1) Cast iron meeting requirements of ASTM A 48 Class 30 or better.
- 2) Galvanized steel – 10 gauge, G90 galvanization or better
- 3) Stainless steel – 10 gauge or better

The dome size and spacing of the detectable warnings shall meet all requirements of sections R305.1.1 and R305.1.2 of PROWAG.

The color of the detectable warning tiles is to be approved by the Engineer unless otherwise specified in the plans and comply with the requirements of section R305.1.3 of PROWAG.

If a concrete border is required for installation of the detectable warnings, it shall comply with section R305.2 of PROWAG.

The contractor shall verify all dimensions with the product manufacturer. If using radial units, the contractor shall verify that the radius of the detectable warnings supplied by the manufacturer matches that of the curb radius.

The contractor shall ensure that the supplied detectable warnings allow placement of the rows of domes that are aligned parallel with the path of travel. Where detectable warnings are radial, dome orientation is not significant.

The contractor shall ensure a maximum vertical transition of 1/4" between the edge of the detectable warnings and adjacent concrete.

This work will be paid for at the contract unit price per square foot for DETECTABLE WARNINGS (SPECIAL)

#### STORM SEWERS RUBBER GASKET, CLASS A, TYPE 1

This item consists of furnishing and installing storm sewer with rubber gaskets in accordance with the applicable portions of Section 550 of the Standard Specifications.

Trench backfill shall be installed in accordance with the trench cross-section detail, as shown in the plans. Trench backfill shall be paid for at the Contract Unit Price per Cubic Yard for TRENCH BACKFILL.

This work shall be paid for at the Contract Unit Price per foot for STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1, (12 INCH, and 24 INCH) which price shall include all labor, materials, equipment, and incidentals necessary to complete the work as described above.

### CURED-IN-PLACE PIPE LINER

**Description.** This work shall consist of installing cured-in-place pipe (CIPP) liners to rehabilitate pipe culverts or storm sewers.

**Materials.** Resin-impregnated flexible tubes or pipes shall be according to ASTM D 5813. Upon delivery of materials to the jobsite, the Contractor shall furnish independent test reports from the supplier showing the physical properties of the CIPP liner meets the material requirements of the applicable ASTM documents for the proposed liner.

**Construction Requirements.** Installation of the CIPP liner shall consist of a resin impregnated flexible tube or pipe being inverted or pulled into the host pipe and expanded to conform to the interior of the host pipe. The resin impregnated tube shall then be cured in place, creating a continuous structural liner within the host pipe.

The Contractor shall submit the following to the Engineer for approval, at least 15 days prior to the start of work:

- (a) References. A list containing at least three projects completed within the last three years prior to this project's bid date in which the Contractor performing this work has installed CIPP liners. The list of projects shall contain names and phone numbers of representatives who can verify the Contractor's participation on those projects.
- (b) Experience. Name and experience record of the CIPP liner supervisor
- (c) Materials. Manufacturer's published literature for the proposed CIPP liner.
- (d) Installation Procedure. Proposed methods of water diversion, cleaning and preparation of the existing culvert, ASTM standard for the proposed CIPP liner, setup locations for pulling or inverting the CIPP liner, testing and inspection methods, and final clean-up operations. Quality control procedures for conformance with applicable water testing and stormwater management requirements.

The Contractor shall submit a design report for each CIPP liner in the Contract, sealed by an Illinois licensed Structural Engineer, prior to the installation of the respective CIPP liner. Prior to completion of the design report, the Contractor shall clean and inspect the host pipe as described in the installation procedure. The Contractor shall provide a recording of the inspection to the

Engineer. Authorization from the Engineer shall be requested to clear any obstructions not able to be removed by conventional sewer cleaning equipment.

The design report shall be submitted to the Engineer for approval prior to installation and include the following.

- (a) The anticipated length and diameter of CIPP liner.
- (b) The location and characteristics of cavities in and around the existing structure, and the location and quantity of any additional materials required, such as grout, pea gravel, or flowable backfill, to repair the existing structure and fill these cavities.
- (c) The location of any deformities such as jagged edges that may impact the liner installation or its function, and a plan to correct the deformities.
- (d) Design calculations and required in-place liner thickness of the CIPP liner. The wall thickness shall be calculated using the methodology provided in the applicable ASTM standard practice for the approved CIPP liner. The design loads shall be as per the AASHTO LRFD Bridge Design Specifications. The host pipe shall be considered fully deteriorated. The proposed CIPP liner shall have a 50-year design life, with a factor of safety of two (2).
- (e) The final in-place hydraulic opening shape and dimensions of the CIPP liner.

Liner shall not be installed until the design report has been approved by the Engineer. Liner shall not be installed if rain is in the forecast on the day of installation.

After completion of the design report, but prior to installation of the CIPP liner, the Contractor shall confirm the host pipe is in suitable condition for the installation of the proposed CIPP system.

Pipes shall be drained and flow shall be diverted.

The CIPP shall be installed according to ASTM F 1216, ASTM F 1743, or ASTM F 2019.

A resin impregnated sample (wick) shall be provided by the Contractor to provide verification of the curing process taking place in the host pipe.

The CIPP wall thickness installed by the Contractor shall be the Required In-Place Liner Thickness calculated in the design report, with allowable tolerances as per the applicable ASTM documents. Measured sample thickness will not include any portion not considered by the Engineer to be considered a structural component of the system.

The Contractor shall inspect the CIPP liner and provide the Engineer with a recording showing and describing the entire length of the completed liner. Any excessive wrinkling or damaged CIPP liner areas shall be repaired or modified to the satisfaction of the Engineer.



**Method of Measurement.** This work will be measured for payment in place in feet. When the CIPP enters a manhole, inlet, or catch basin, the measurement will end at the inside wall of the manhole, inlet, or catch basin.

**Basis of Payment.** This work will be paid for at the contract unit price per foot for CURED-IN-PLACE PIPE LINER, of the diameter specified.

Debris removal requiring equipment beyond conventional sewer cleaning equipment, prior to the installation of the CIPP liner will be paid for according to pay item HEAVY CLEANING OF STORM SEWERS.

SPRAY-APPLIED PIPE LINER

**Description.** This work shall consist of installing spray-applied pipe liners (SAPL) to rehabilitate pipe culverts or storm sewers.

**Materials.** Materials shall meet the requirements of the following:

- (a) Geopolymer Mortar (Notes 1 and 2)

Note 1. The liner material shall be a prepackaged, micro-fiber reinforced, ultra-dense geopolymer mortar composed of a minimum 70 percent pozzolanic material of the following SiO<sub>2</sub>, MgO, Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub> and verified by third party certified X-ray Fluorescence (XRF) testing. The maximum size of aggregate shall be such that 100 percent of material (excluding fibers) passes the No. 8 (2.36 mm) sieve.

Prior to approval and use, the manufacturer shall submit a notarized certification of the independent laboratory, together with results of all tests, stating that this material meets the requirements as set forth herein. The certified test report shall state the lot tested, manufacturer's name, product name, and date of manufacture. The geopolymer mortar shall meet the following:

Compressive Strength	ASTMC39 or C109	1 Day	2,500 psi
		28 Day	8,000 psi
Flexural Strength	ASTM C78	7 Day	1,100 psi
		28 Day	1,300 psi
Tensile Strength	ASTM C496	28 Day	800 psi
Shrinkage RH	ASTM C1090	28 Day	0% at 65%
Modulus of Elasticity	ASTM C469	1 Day	3,000,000 psi
		28 Day	5,800,000 psi
Bond Strength	ASTM C882 Type II	1 Day	900 psi
		28 Day	2,500 psi

Freeze Thaw Durability	ASTM C666	300 Cycles	Zero Loss
Set Time	ASTM C807	Initial	< 75 min
		Final	< 120 Min
Abrasion Resistance	ASTM C1138	5 Cyl.28 Day	< 3% Loss

Note 2. Additional materials including chemical grouts and hydraulic cements necessary to stop infiltration and create a surface for the geopolymer lining to be applied to may be necessary and shall be according to Article 1001.

**Construction Requirements.** The SAPL shall be spray-applied onto the existing pipe and shall conform to the interior of the original pipe, creating a continuous structural concrete pipe within a pipe.

The Contractor shall submit the following to the Engineer at least 15 days prior to the start of work, detailing the following:

- (a) References. A list containing at least three projects with diameters exceeding 36 in. completed within the last three years prior to this project’s bid date in which the Contractor performing this work has installed SAPL. The list of projects shall contain names and phone numbers of representatives who can verify the Contractor’s participation on those projects.
- (b) Experience. Name and experience record of the SAPL supervisor
- (c) SAPL materials. Manufacturer’s published literature for the proposed SAPL.
- (d) Installation Procedure. Proposed methods of water diversion, cleaning and preparation of the existing culvert, setup locations for required equipment, testing and inspection methods, and final clean-up operations. Quality control procedures for conformance with applicable water testing and stormwater management requirements.

The Contractor shall submit a design report for each installation, sealed by an Illinois Licensed Structural Engineer, prior to the installation of the SAPL. Prior to completion of the design report, the Contractor shall clean and inspect the existing pipe as described in the work plan. The Contractor shall provide a recording of the inspection to the Engineer.

Authorization from the Engineer shall be requested to clear any obstructions not able to be removed by conventional sewer cleaning equipment. The Contractor shall verify dimensions of the existing pipe.

The design report shall include:

- (a) The anticipated coverage and volume of repair mortar.

- (b) The location and characteristics of cavities around the existing structure, and the location and quantity of any additional materials required, such as aggregate or flowable backfill, to fill these cavities.
- (c) The location of any deformities such as jagged edges that may impact the liner installation or its function, and a plan to correct the deformities.
- (d) A log of the existing span and rise per every 5 ft. (2 m) of existing structure length. The thickness of the installed liner will be verified against these dimensions.
- (e) Design calculations and required wall thicknesses of the SAPL. The wall thickness shall be calculated using methodology in industry literature such as the document Testing and Modeling Analysis of Geopolymer Pipe-lining Technology for Sewer & Stormwater Rehabilitation (approved by Water Resources Council). The design loads shall be as per the AASHTO LRFD Bridge Design Specifications. The proposed SAPL is intended to have a 50-year design life. The existing pipe shall be considered fully deteriorated. The SAPL design shall have a minimum factor of safety of two (2).
- (f) The final, in-place, hydraulic opening shape, and dimensions of the SAPL.

See plans for additional design parameters such as existing culvert sizes.

The thickness proposed by the Contractor shall be the Required In-Place Liner Thickness calculated in the design report. Measured sample thickness will not include any portion not considered by the Engineer to be considered a structural component of the system.

No liner shall be installed until the design report has been approved by the Engineer. Liner shall not be installed if rain is in the forecast for the day of installation.

After completion of the design report, but prior to installation of the SAPL, the Contractor shall confirm that the existing pipe is adequately clean and in suitable condition for the installation of the proposed SAPL system.

Pipes shall be drained and flow shall be diverted.

Prior to lining, all drop inlets or taps shall be temporarily plugged to prevent water discharge onto newly placed mortar and to prevent mortar from entering the inlet or tap. Lines with active flow shall be temporarily plugged with a device that sufficiently prevents water from discharging onto the newly placed SAPL.

The interior surface of the existing structure shall be cleaned with a high-pressure water- blast sufficient to remove all laitance and loose material and flush debris from the structure. Upon final inspection, the existing structure shall be free of sand, dirt and all other laitance that may impede the placement or adhesion of the SAPL to the structure.

The Contractor shall have a manufacturer’s representative on site during the mixing and start of application of the pipe lining mortar. On-site representation by the manufacturer is not required for the duration of the project. The representative will remain onsite as required by the Engineer.

Unless recommended by the supplier, the SAPL shall be installed by using a high speed, rotating applicator device as recommended by the manufacturer of the mortar. In areas with complex geometry, such as tight bends or pipe junctions, or in heavily damaged areas, the supplier may recommend that hand nozzles be utilized by trained technicians. Mortar mixers, compressors and pumps shall also be of a type recommended by the mortar manufacturer. The mortar shall be mixed and agitated according to the mortar manufacturer’s instructions. If recommended by the mortar manufacturer, working time may be extended by mixing the material with cool water or ice-cooled water.

The mortar shall not be applied when ambient or existing structure surface temperatures are 100°F or above or when ambient temperatures are expected to fall below 45°F within 72 hours of placement. Both ambient and existing structure surface temperatures shall be at least 45°F at the time of placement.

A curing compound in accordance with ASTM C 309 shall be used if required. It shall be applied at the time and rate recommended by the mortar manufacturer.

The Contractor shall inspect the SAPL and provide the Engineer with a recording showing and describing the entire length of the completed SAPL. The completed liner shall be smooth and free from honeycomb and areas of segregation. Any damaged SAPL areas shall be repaired or modified at the Contractor’s expense.

The Contractor shall measure the new span and rise per every 5 ft of structure length and shall provide these measurements along with the pre- installation measurements to the Engineer. Acceptance will be based on verification that the thickness of the installed SAPL is in accordance with the design report by comparison of the pre-installation and post- installation span and rise measurements along with a visual inspection to verify a leak- free, uniform appearance. A plan of corrective action shall be submitted for approval upon notification from the Engineer of any unacceptable areas of the SAPL.

**Quality Control by Contractor.** The Contractor shall perform quality control testing as follows.

CONTRACTOR JOBSITE SAMPLING AND TESTING		
Measured Property	Test Frequency	Illinois Modified AASHTO, Illinois Modified ASTM, or Illinois Test Procedure 1/
Compressive Strength 2/	1 per 25,000 pounds applied or minimum 1/day	R 60, R 100, and T 22

1/ Refer to the Department's "Manual of Test Procedures for Materials".

2/ Strength tests shall be according to Article 1020.09, except compressive strength shall be determined using 4- by 8-in. cylindrical specimens and flexural strength will not be required. Specimens shall be undisturbed for 24 to 28 hours prior to transportation. The tests of record for strength shall be at 7 and 28 days. Strength shall be defined as the average of three 4 x 8 in. cylinder breaks. The strength shall not be less than 2,500 psi at 7 days and 8,000 psi at 28 days. For each set of test specimens the following information shall be recorded Batch Number and Dry Material Bag Number.

**Quality Assurance by Engineer.** The Engineer will perform quality assurance tests on independent or split samples of compressive strength specimens at a frequency determined by the Engineer to verify control of production.

**Documentation.** The Contractor shall be responsible for documenting all observations, inspections, adjustments to the mix design, test results, retest results, and corrective actions in a bound hardback field book, bound hardback diary, or appropriate Department form, which shall become the property of the Department. The documentation shall include a method to compare the Engineer's test results with the Contractor's results. The Contractor shall be responsible for the maintenance of all permanent records whether obtained by the Contractor, the consultants, the subcontractors, or the producer of the mixture. The Contractor shall provide the Engineer full access to all documentation throughout the progress of the work. Applicable Department forms may be form BMPR MI504, form BMPR MI654, form BMPR MI655.

**Acceptance.** Final acceptance will be based on the Standard Specifications and the following:

- (a) The Contractor's compliance with all contract documents for quality control.
- (b) Validation of Contractor quality control test results by comparison with the Engineer's quality assurance test results using split samples. Any quality control or quality assurance test determined to be flawed may be declared invalid only when reviewed and approved by the Engineer. The Engineer will declare a test result invalid only if it is proven that improper sampling or testing occurred. The test result is to be recorded and the reason for declaring the test invalid will be provided by the Engineer.
- (c) Comparison of the Engineer's quality assurance test results with specification limits using samples independently obtained by the Engineer.

The Engineer may suspend mixture production, reject materials, or take other appropriate action if the Contractor does not control the quality of material applied. The decision will be determined according to (a), (b), or (c).

**Method of Measurement.** This work will be measured for payment in place in feet. When the SAPL enters a manhole, inlet, or catch basin, the measurement will end at the inside wall of the manhole, inlet, or catch basin.

**Basis of Payment.** This work will be paid for at the contract unit price per foot for SPRAY-APPLIED PIPE LINER, of the diameter specified.

Repair of existing pipes and filling of voids prior to the installation of the SAPL will be paid for according to Article 109.04 of the Standard Specifications.

#### HEAVY CLEANING OF STORM SEWERS

This work consists of heavy cleaning equipment to remove large deposits of debris, root growth, mineral deposits, bricks/concrete, and others from storm sewers. Heavy cleaning is defined as additional debris to be removed from the sewer after three passes of the jetter. Bucket machines, scrapers and higher jetting equipment can be utilized in this heavy duty cleaning.

Contractor shall be responsible for disposing of all debris and material removed from the heavy cleaning procedure. No debris is to be left in the sewer structure, pipes, or passed downstream.

This Pay Item also includes removal of roots and mineral deposits that protrude more than one inch into the pipe using a cutter.

Payment will only be made after visual justification of the need for heavy cleaning and/or root/mineral deposits by recording the problem on the television inspection after three passes of the jetter, before heavy cleaning is performed.

The work of this pay item will be paid for the Contract Unit Price per foot for HEAVY CLEANING AND OF STORM SEWERS which price shall include all labor, equipment, disposal and incidentals to complete the work described above.

#### MANHOLES, 5 FOOT DIAMETER

This work shall be done in accordance with Section 602 of the Standard Specifications. This work shall consist of constructing and installing catch basins, manholes, and inlets as shown on the Plans and as directed by the Engineer.

Disposal of all excavated materials, existing manhole and general cleanup shall be the responsibility of the Contractor. The work performed installing the manholes shall follow the details in the Plans. All trench backfill used for this work is considered incidental and will not be paid for separately. Any new frames and grates at locations shown on the plans shall be obtained from the Village procured stockpile, where specified on the plans or as directed by the Engineer. Transportation from the stockpile is the responsibility of the contractor and shall be incidental to this item.

The constructing and installing of manholes will be paid for at the Contract Unit Price per each for MANHOLES, 5 FOOT DIAMETER; which price shall include furnishing all materials, labor, trench backfill and equipment necessary to complete the work as herein specified and for the satisfaction of the Engineer.

### FRAMES AND LIDS STORM TYPE 1 CLOSED LID (SPECIAL)

This work shall consist of replacing an existing frame and/or grate with a new frame and lid as directed by the Engineer. The work shall be done in accordance with the applicable portions of Section 604 of the Standard Specifications.

For storm manholes, the frame and closed lids shall be East Jordan 1050Z1 with Type A solid cover, Neenah R-1713, or approved equal, with embossed "Village of Hoffman Estates" and "Storm". The Contractor will be required to deliver all salvaged castings to the Village or use them elsewhere if indicated on the plans or directed by the Engineer.

This work shall be paid for at the Contract Unit Price per each for FRAMES AND LIDS, STORM, TYPE 1, CLOSED LID, SPECIAL, which price shall include all labor, equipment, materials and incidentals required to complete the work as described above.

### COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT SPECIAL

This work shall be done in accordance with Section 606 and Section 440 of the Standard Specifications, applicable project Special Provisions, and as modified herein. This work shall consist of the removal and satisfactory disposal of the **partial** existing curb and gutter at the locations shown on the plans as directed by the Engineer. The work shall consist of constructing **partial** combination curb and gutter of the type specified at the locations shown on the plans or as directed by the Engineer.

The Contractor shall saw cut six (6) inches from the curb edge into the existing pavement at all removal locations or as directed by the Engineer. The Contractor shall front fill this area with concrete at least one inch below the front edge of the curb and gutter. The concrete front filling must be a separate pour from the curb and gutter, once the curb and gutter have adequately cured. No extra compensation shall be allowed for the additional excavation in width of the existing pavement or in the thickness of the pavement, saw cutting, and front filling of concrete.

The proposed combination concrete curb and gutter shall be B6.12 or M3.12 as shown in the curb detail in the plans. New curb and gutter or curb shall have a gutter thickness equal to the pavement thickness at all locations. The Engineer must approve forming methods for pouring the curb and gutter.

Opposite each water shutoff box a "W" two (2) inches high shall be pressed into the concrete.

Backfilling of excavated or disturbed areas behind the new curb and gutter shall be done within 10 calendar days of placement of the curb and gutter, but not before 3 calendar days. Backfill material shall consist of approved clay, sand, or topsoil placed in compacted layers until a minimum of 6-inches in depth remains from the top of the curb and gutter. Compaction of this material is essential and must be done in a proper manner by the contractor. This work shall not be paid for separately, but shall be considered incidental to the contract.

The construction shall include the placement of three (3) inches of aggregate material meeting the requirements of AGGREGATE SUBGRADE IMPROVEMENT, prior to the placement of the curb and gutter. The base shall be compacted to the satisfaction of the Engineer. The sub grade shall be tamped or rolled until thoroughly compacted before the aggregate materials are placed. This work shall not be paid for separately, but shall be incidental to the Contract Unit Price for this pay item.

This work shall be paid for at the Contract Unit Price per foot for COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT, SPECIAL which price shall include all labor, equipment, materials, and incidentals to complete the work described above.

#### TRAFFIC CONTROL AND PROTECTION

Traffic Control and Protection shall be provided as called for in the plans, details, Special Provisions, Highway Standards, applicable sections of the Standard Specifications, or as directed by the Engineer. The work shall be performed in accordance applicable portions of Section 701 of the Standard Specifications.

This work shall be paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION which price shall include all labor, materials, transportation, handling, and incidentals necessary to furnish, install, maintain, replace, relocate, and remove all traffic control devices indicated in the plans and specifications.



**PUBLIC CONVENIENCE AND SAFETY (D1)**

Effective: May 1, 2012

Revised: July 15, 2012

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

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

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

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

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

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

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 Hoffman Estates

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

## **PORTLAND CEMENT CONCRETE (BDE)**

Effective: August 1, 2023

Revise the second paragraph of Article 1103.03(a)(4) the Standard Specifications to read:

“The dispenser system shall provide a visual indication that the liquid admixture is actually entering the batch, such as via a transparent or translucent section of tubing or by independent check with an integrated secondary metering device. If approved by the Engineer, an alternate indicator may be used for admixtures dosed at rates of 25 oz/cwt (1630 mL/100 kg) or greater, such as accelerating admixtures, corrosion inhibitors, and viscosity modifying admixtures.”

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## WORK ZONE TRAFFIC CONTROL DEVICES (BDE)

Effective: March 2, 2020

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 manufactured after December 31, 2019 shall be MASH-16 compliant. Category 1 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2024.

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 manufactured after December 31, 2019 shall be MASH-16 compliant. Category 2 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2024.

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-16 compliant. Category 3 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, 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 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-16 compliant is available, an NCHRP 350 or MASH-2009 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.”

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Village of Hoffman Estates  
2023 Storm Sewer Rehabilitation Project  
Pipe Schedule

General Location	Pipe Run	Start Structure	Start Address	End Structure	End Address	Pipe Length (feet)	Pipe Diameter (inches)	Proposed Work
ARIZONA - ALHAMBRA	STMN-13269	FES-1099	315 Arizona Blvd	STMH-0112	315 Arizona Blvd	160	42	CIPP
	STMN-11549	STMH-0112	315 Arizona Blvd	STMH-2819	Apache Ln	355	48	CIPP
	STMN-14920	STMH-3439	320 Apache Ln	CB-3035	320 Apache	150	48	CIPP
	STMN-06559	CB-3035	320 Apache Ln	CB-3036	450 Apache Ln	685	48	SAPL
	STMN-11564	CB-3036	450 Apache Ln	STMH-2821	455 Alpine Ln	145	48	CIPP
	STMN-11565	STMH-2821	455 Alpine Ln	STMH-3500	485 Alpine Ln	260	48	CIPP
	STMN-13271	STMH-0115	770 Alhambra Ln	CB-4285	745 Alhambra Ln	250	48	CIPP
	STMN-11591	STMH-3516	745 Alhambra Ln	FES-0805	745 Alhambra Ln	150	48	CIPP
CUMBERLAND - BATAVIA	STMH-11818	STMH-0108	90 Chandler Ln	STMH-2868	120 Chandler Ln	280	36	CIPP
	STMN-11821	STMH-2869	705 Chandler Ln	STMH-2366	705 Chandler Ln	80	36	CIPP
	STMN-11559	STMH-2366	705 Chandler Ln	STMH-2820	705 Chandler Ln	95	36	CIPP
	STMN-11560	STMH-2820A	151 Chandler Ln	STMH-2816	160 Bradley Ln	316	42	CIPP
	STMN-11635	STMH-2381	698 Illinois Blvd	IN-5089	680 Cumberland St	160	30	CIPP
	STMN-11264	STMH-2768	30 Chandler Ln	STMH-2766	30 Chandler Ln	85	36	CIPP
FLAGSTAFF	STMN-15511	STMH-3532	Roselle Row	IN-5090	810 Cumberland	150	24	CIPP
	STMN-11577	STMH-0053	125 Flagstaff Ln	STMH-2380	5 Flagstaff Ln	680	24	CIPP

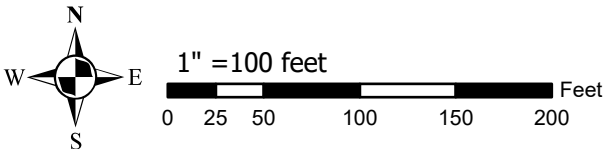
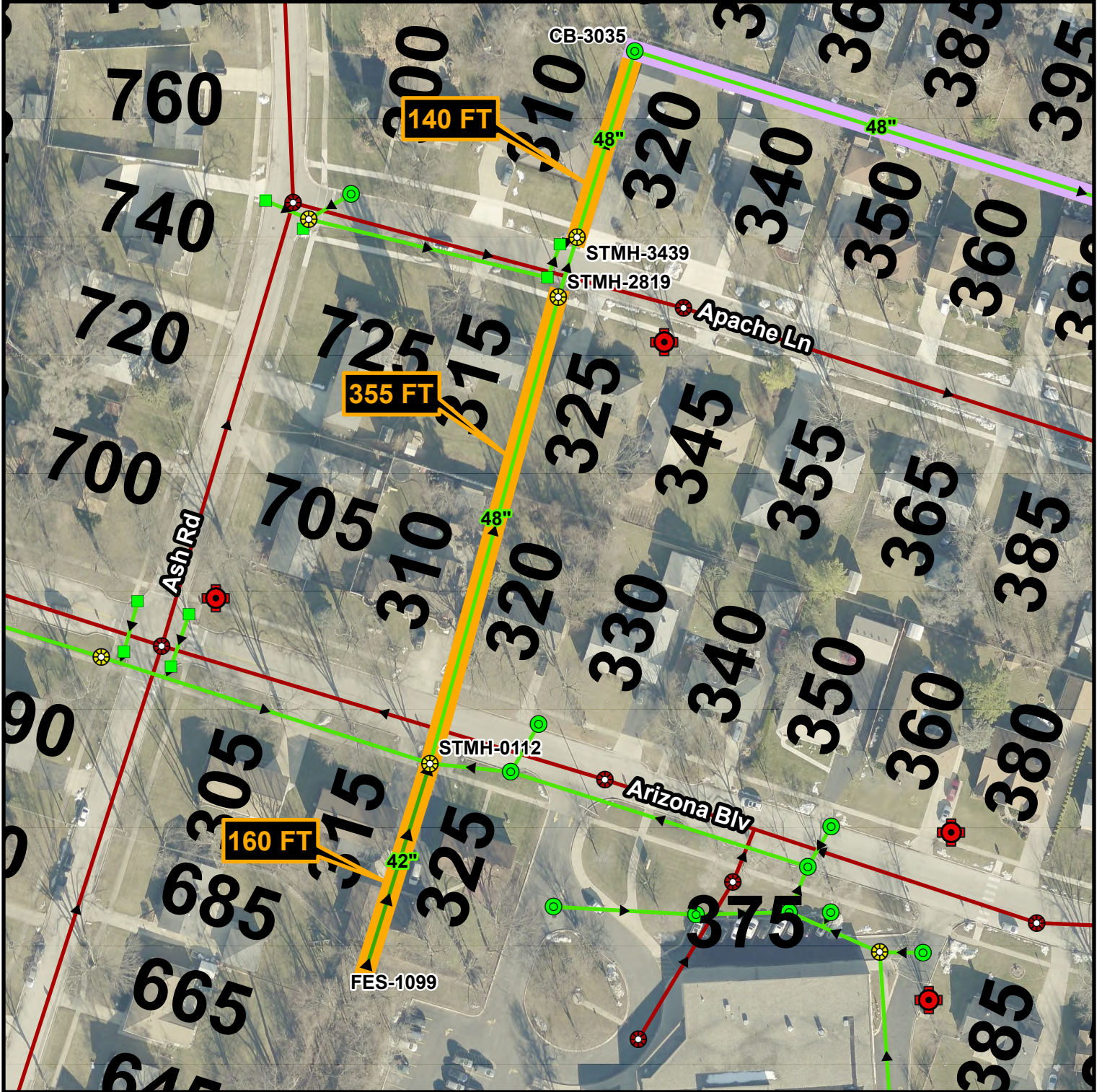













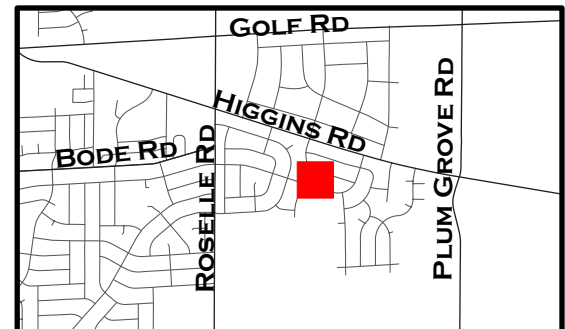
# VILLAGE OF HOFFMAN ESTATES

## 2023 STORM SEWER REHABILITATION PROJECT

FES-1099 to STMH-0112, STMH-0112 to STMH-2819, STMH-3439 to CB-3035



-  CIPP Liner
-  Spray Liner
-  Catch Basin
-  Storm Manhole
-  Culvert
-  Storm Sewer
-  Hydrant
-  Sanitary Manhole
-  Sanitary Sewer



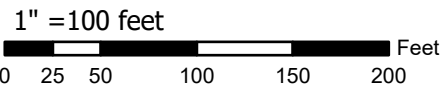
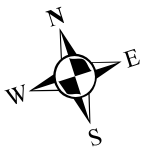




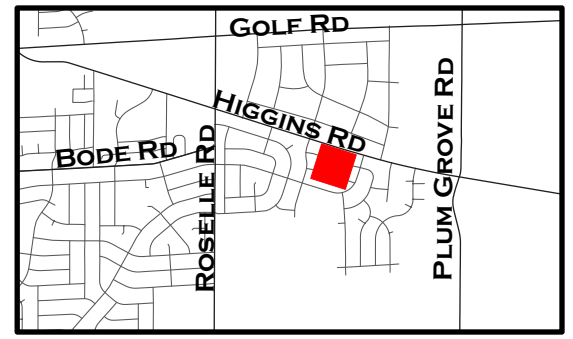
# VILLAGE OF HOFFMAN ESTATES

## 2023 STORM SEWER REHABILITATION PROJECT

CB-3035 TO CB-3036, CB-3036 TO STMH-3504



- CIPP Liner
- Spray Liner
- Catch Basin
- Storm Manhole
- Culvert
- Storm Sewer
- Hydrant
- Sanitary Manhole
- Sanitary Sewer



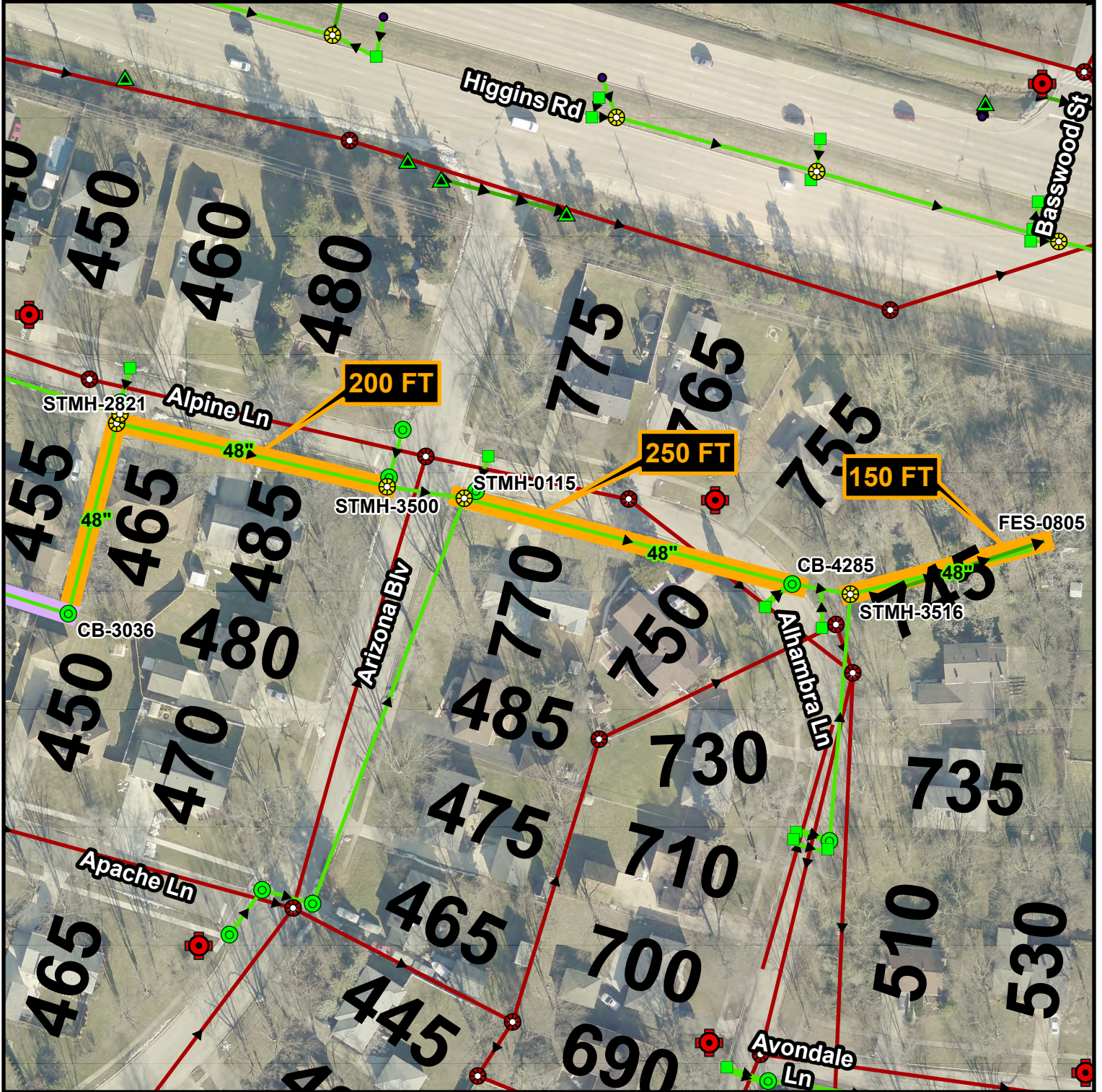




# VILLAGE OF HOFFMAN ESTATES

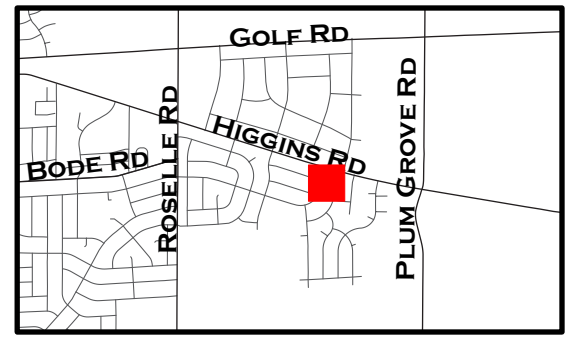
## 2023 STORM SEWER REHABILITATION PROJECT

STMH-3504 to STMH-3500, STMH-3500 to CB-4285, STMH-3516 to FES-0805



1" = 100 feet  
0 25 50 100 150 200 Feet

- CIPP Liner
- Spray Liner
- Catch Basin
- Storm Manhole
- Culvert
- Storm Sewer
- Hydrant
- Sanitary Manhole
- Sanitary Sewer



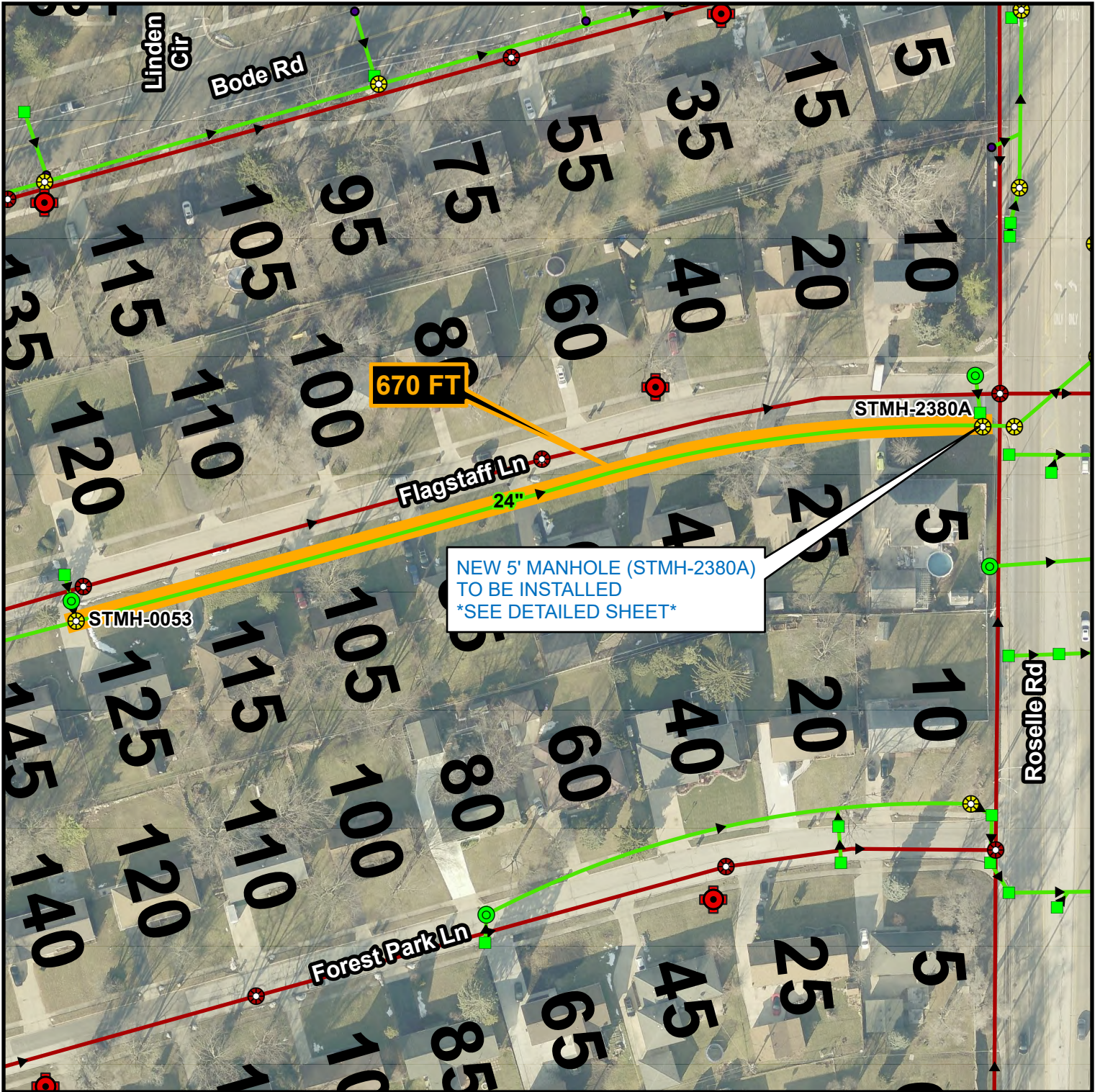




# VILLAGE OF HOFFMAN ESTATES

## 2023 STORM SEWER REHABILITATION PROJECT

STMH-0053 TO STMH-2380A



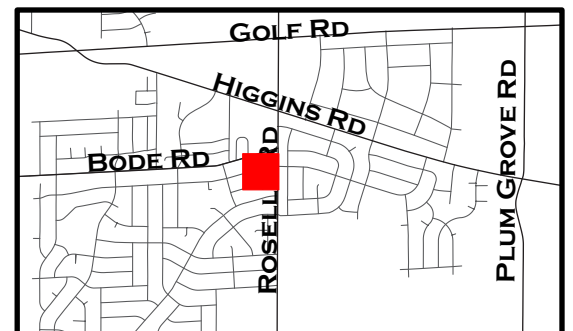
NEW 5' MANHOLE (STMH-2380A)  
TO BE INSTALLED  
\*SEE DETAILED SHEET\*

670 FT



1" = 100 feet  
0 25 50 100 150 200 Feet

- CIPP Liner
- Spray Liner
- Catch Basin
- Storm Manhole
- Culvert
- Storm Sewer
- Hydrant
- Sanitary Manhole
- Sanitary Sewer



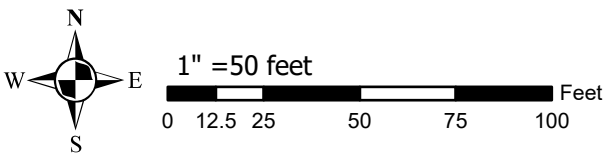
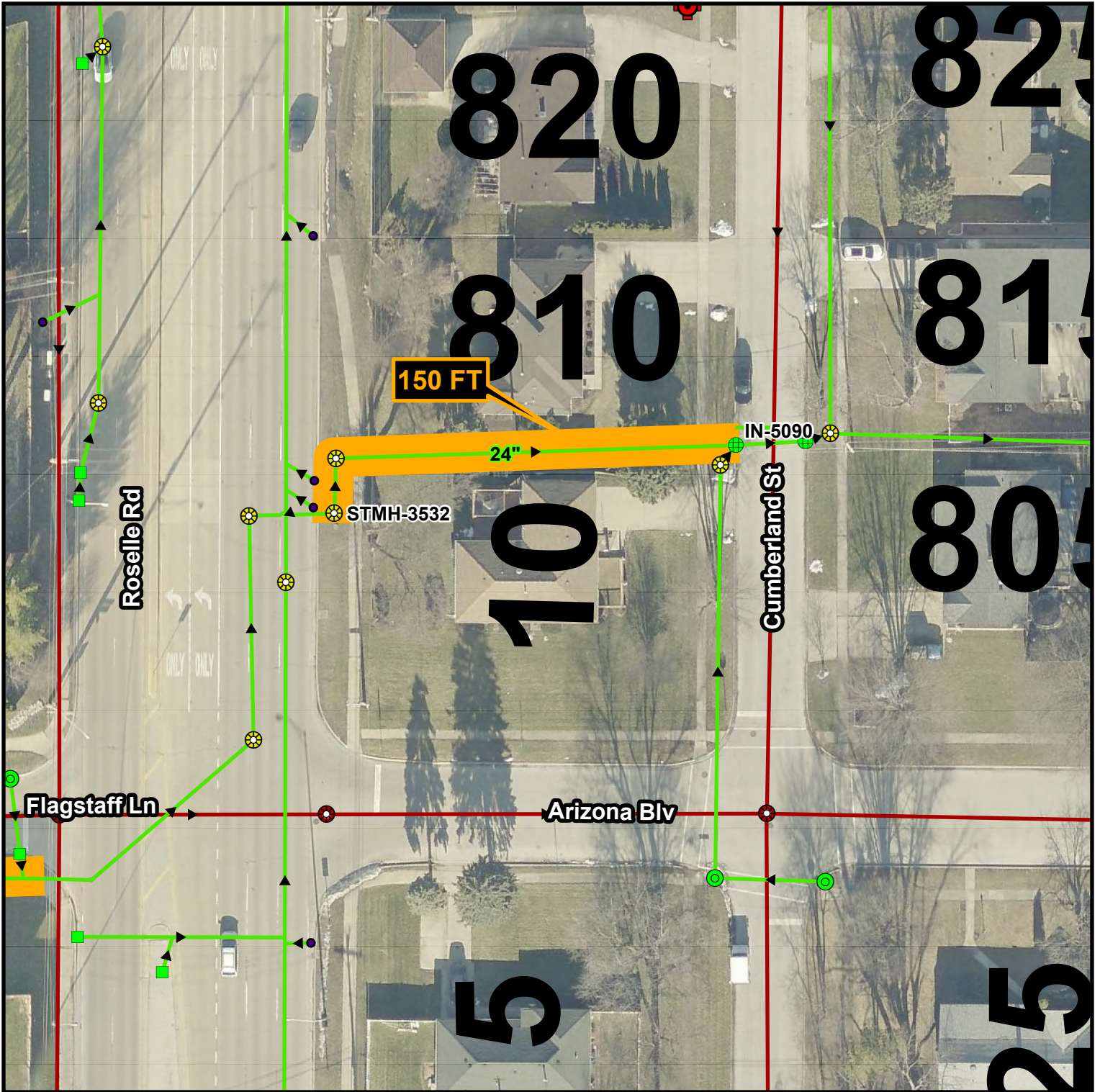




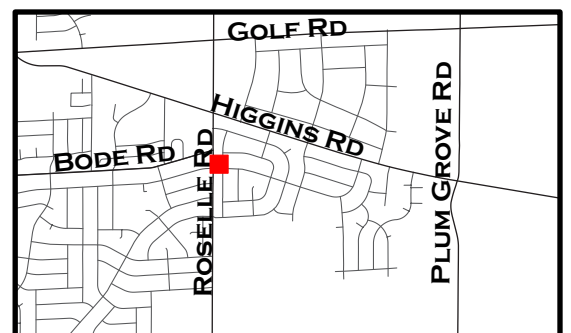
# VILLAGE OF HOFFMAN ESTATES

## 2023 STORM SEWER REHABILITATION PROJECT

STMH-3532 TO IN-5090



- CIPP Liner
- Spray Liner
- Catch Basin
- Storm Manhole
- Culvert
- Storm Sewer
- Hydrant
- Sanitary Manhole
- Sanitary Sewer



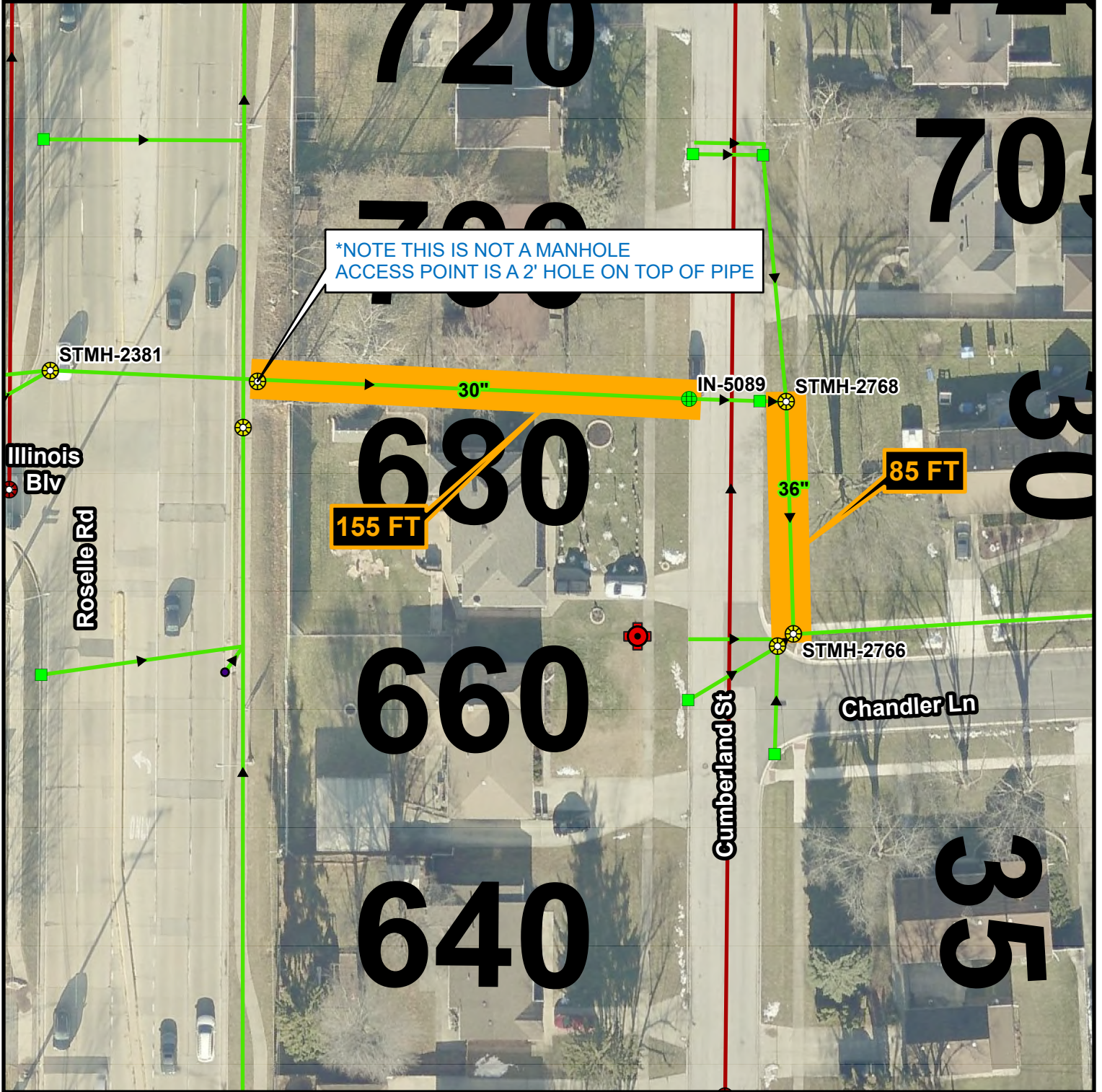




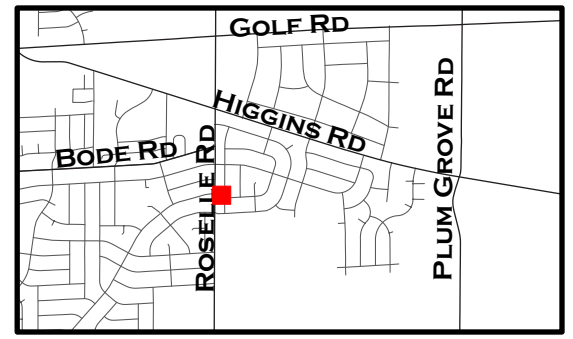
# VILLAGE OF HOFFMAN ESTATES

## 2023 STORM SEWER REHABILITATION PROJECT

ACCESS POINT to IN-5089, STMH-2768 to STMH-2766



- CIPP Liner
- Spray Liner
- Catch Basin
- Storm Manhole
- Culvert
- Storm Sewer
- Hydrant
- Sanitary Manhole
- Sanitary Sewer



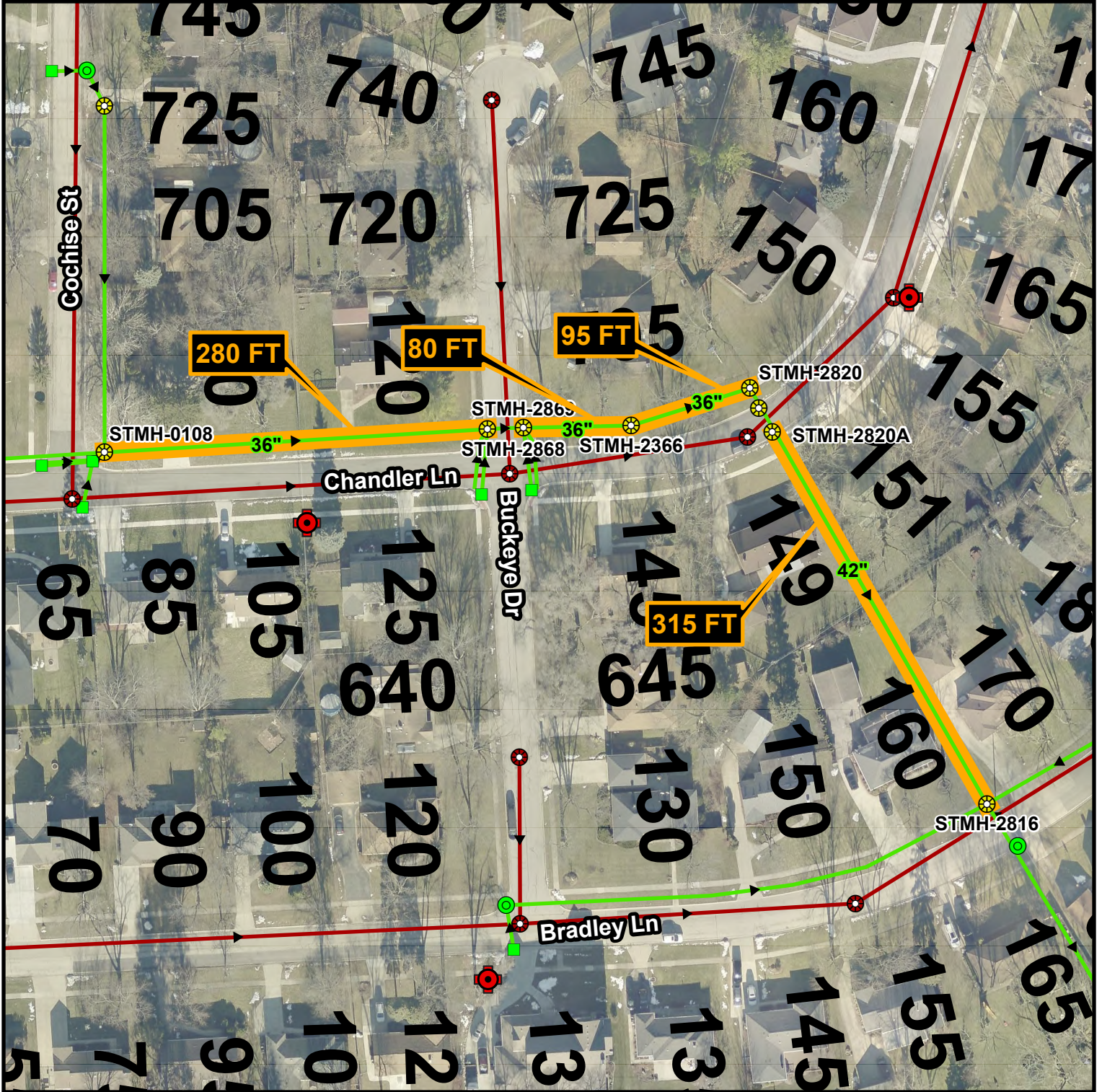




# VILLAGE OF HOFFMAN ESTATES










## 2023 STORM SEWER REHABILITATION PROJECT

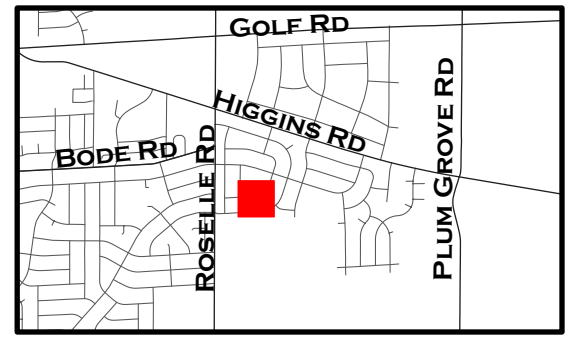
STMH-0108 to STMH-2868, STMH-2869 to STMH-2366, STMH-2366 to STMH-2820, STMH-2820A to STMH-2816



1" = 100 feet

0 25 50 100 150 200 Feet

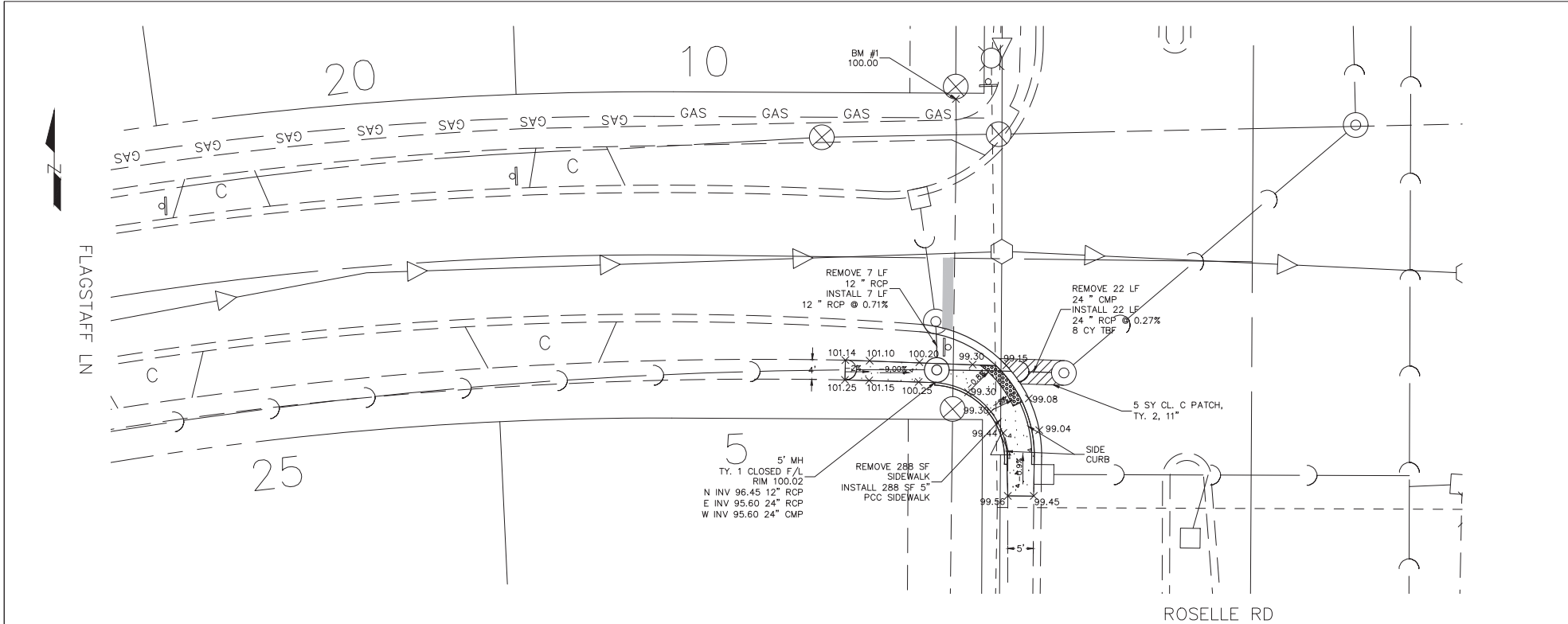
-  CIPP Liner
-  Spray Liner
-  Catch Basin
-  Storm Manhole
-  Culvert
-  Storm Sewer
-  Hydrant
-  Sanitary Manhole
-  Sanitary Sewer





PLAN	DESIGNED	DATE
	DRAWN	
	CHECKED	
	DATE	
	BY	
	DATE	

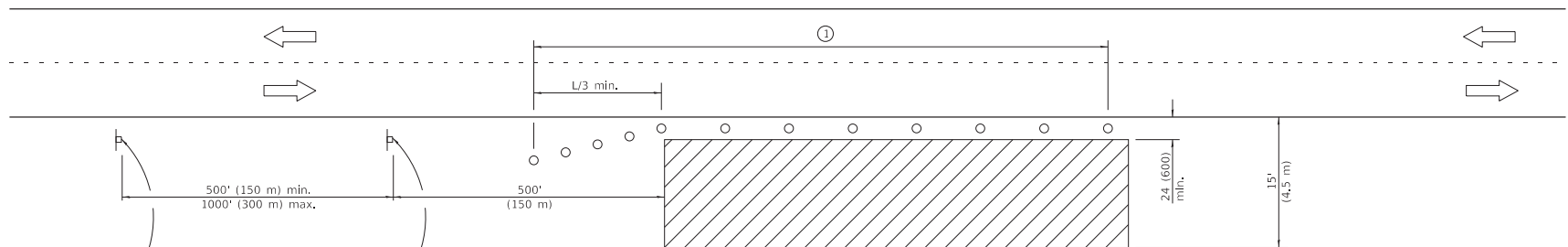
PROFILE	DESIGNED	DATE
	DRAWN	
	CHECKED	
	DATE	
	BY	
	DATE	



Quantities

- 1 EA MANHOLES, 5 FT DIAMETER
- 1 EA FRAMES AND LIDS STORM TYPE 1 CLOSED LID (SPL)
- 288 SF SIDEWALK REMOVAL
- 288 SF 5" PCC SIDEWALK
- 41 LF COMB. CONC. C&G R&R SPL
- 18 SY SODDING (SPL)
- 5 SY CLASS C PATCH, TYPE 2, 11"
- 7 LF STORM SEWER REMOVAL, 12"
- 22 LF STORM SEWER REMOVAL, 24"
- 7 LF STORM SEWER, RUBBER GASKET, CLASS A, TYPE 1, 12"
- 22 LF STORM SEWER, RUBBER GASKET, CLASS A, TYPE 1, 24"
- 20 SF DETECTABLE WARNING (SPL)
- 8 CY TRENCH BACKFILL

FILE NAME - Flagstaff and Roselle.dwg	DESIGNED - DSG	REVISED -		VILLAGE OF HOFFMAN ESTATES 1900 Hassell Road, Hoffman Estates, IL 60169 Phone Number: 847 252-5800	2023 STORM SEWER REHABILITATION PROJECT FLAGSTAFF & ROSELLE	F.A.U. RTE.	SECTION XX-00XXX-00-PV	COUNTY Cook	TOTAL SHEET NO.
	DRAWN - DSG	REVISED -		SCALE: 1" = 10'	SHEET NO. 1 OF 1 SHEETS	STA. 0+00 TO STA 10+00	ILLINOIS FED. AID PROJECT		
	CHECKED - AJW	REVISED -							
	DATE - 04/24/2023	REVISED -							



For contract construction projects



W20-1103(0)-48



W21-1(0)-48

For maintenance and utility projects



W20-1(0)-48

**TYPICAL APPLICATIONS**

- Utility operations
- Culvert extensions
- Side slope changes
- Guardrail installation and maintenance
- Delineator installation
- Landscaping operations
- Shoulder repair
- Sign installation and maintenance

**SYMBOLS**

- Work area
- Sign
- Cone, drum or barricade

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

**GENERAL NOTES**

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24' (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(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.

DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

**OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE**

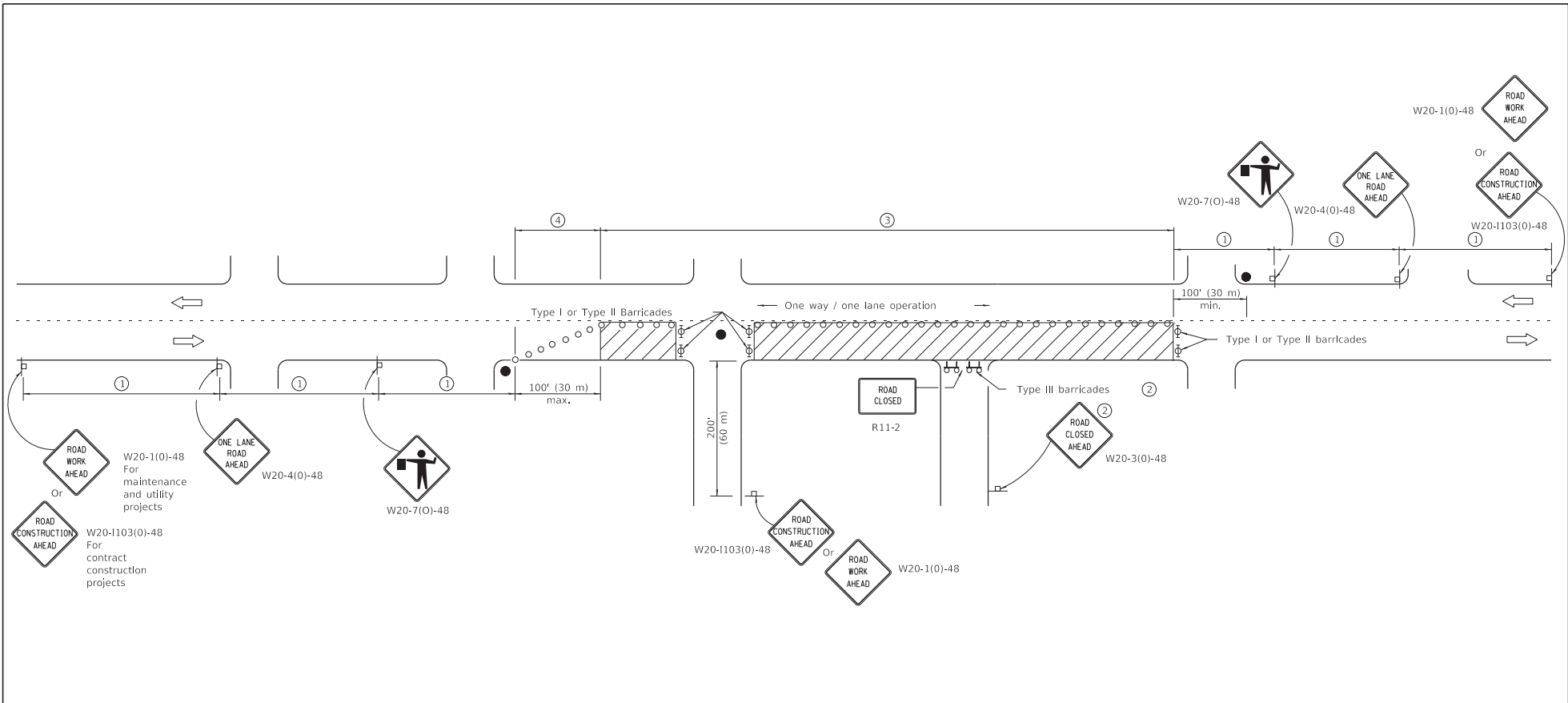
**STANDARD 701006-05**

Illinois Department of Transportation

PASSED January 1, 2014  
 ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2014  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-14



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  
*Amber O'Neil*  
 ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2011  
*Scott K...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

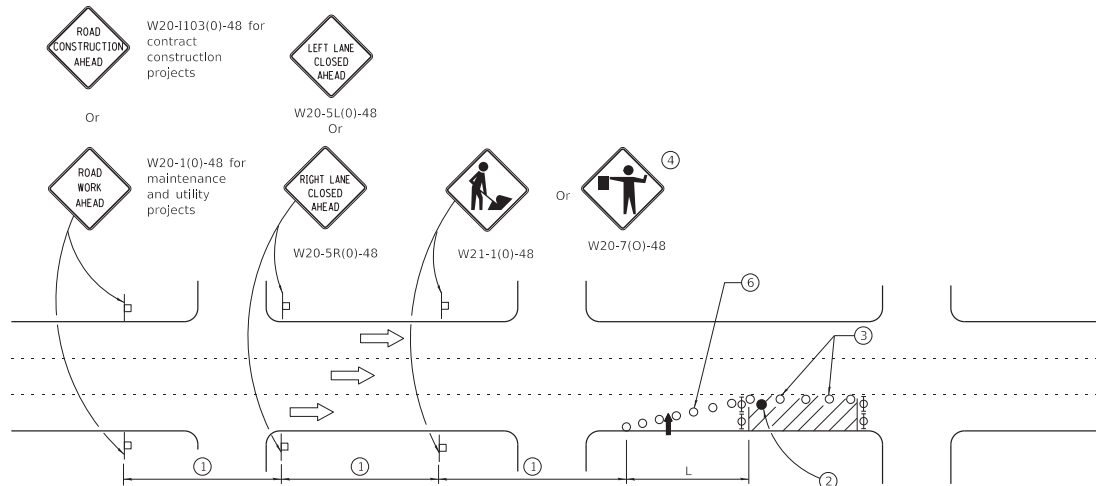
ISSUED 1-1-11

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)

**SYMBOLS**

- Arrow board
- Cone, drum or barricade
- Sign on portable or permanent support
- Work area
- Barricade or drum with flashing light
- Type III barricade with flashing lights
- Flagger with traffic control sign.

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 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 For approved sideroad closures.
- ⑥ Cones, drums or barricades at 20' (6 m) in taper.

**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 urban areas.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(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 January 1, 2014  
ENGINEER OF SAFETY ENGINEERING

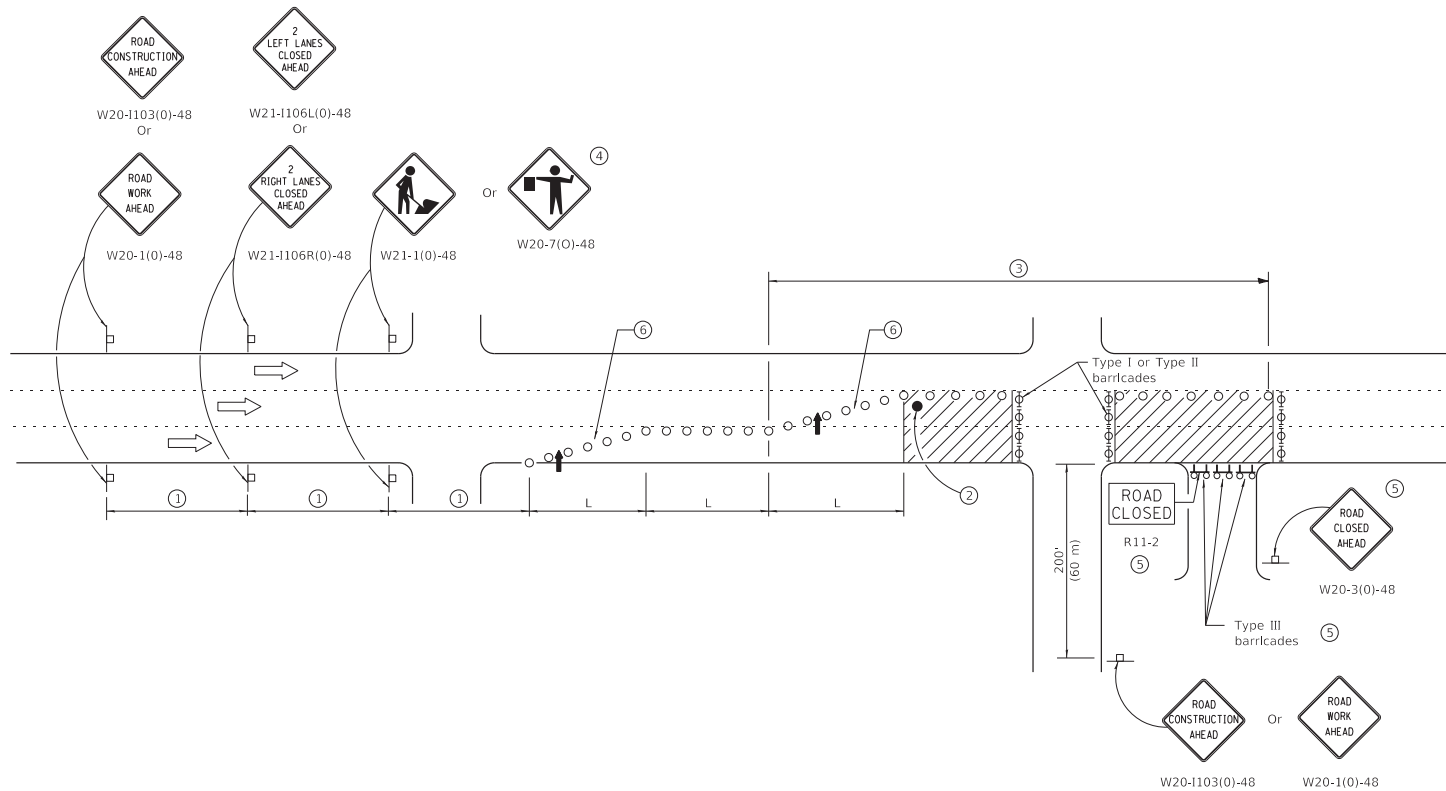
APPROVED January 1, 2014  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-17

DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

**URBAN LANE CLOSURE,  
MULTILANE, 1W OR 2W WITH  
NONTRAVERSABLE MEDIAN**  
(Sheet 1 of 2)

**STANDARD 701601-09**



Illinois Department of Transportation

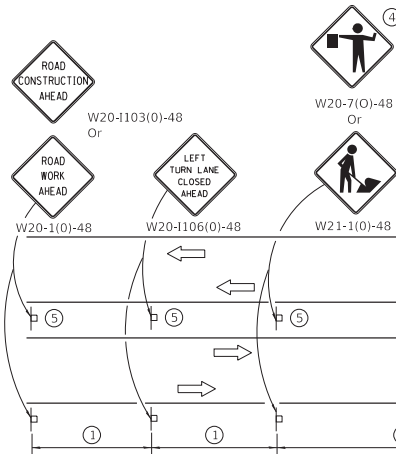
PASSED January 1, 2014  
 ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2014  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-17

**URBAN LANE CLOSURE,  
 MULTILANE, 1W OR 2W WITH  
 NONTRAVERSABLE MEDIAN**  
 (Sheet 2 of 2)

**STANDARD 701601-09**



**LEFT TURN LANE OR CENTER  
MEDIAN OPERATIONS**

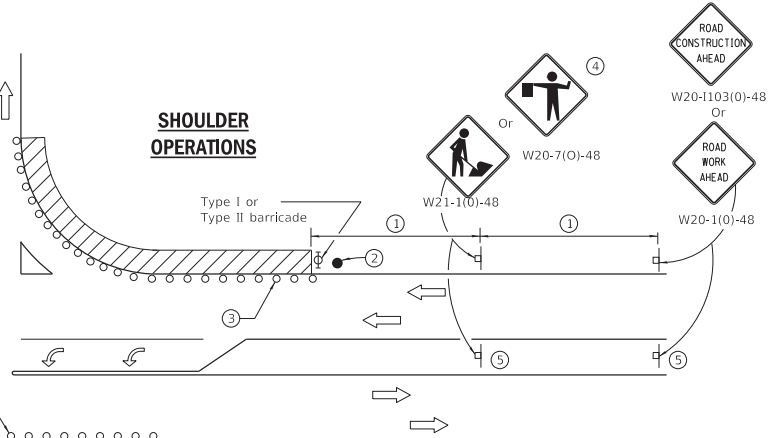
- ① Refer to SIGN SPACING TABLE for distance.
- ② Required for speed > 40 mph.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Use flagger sign only 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.

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

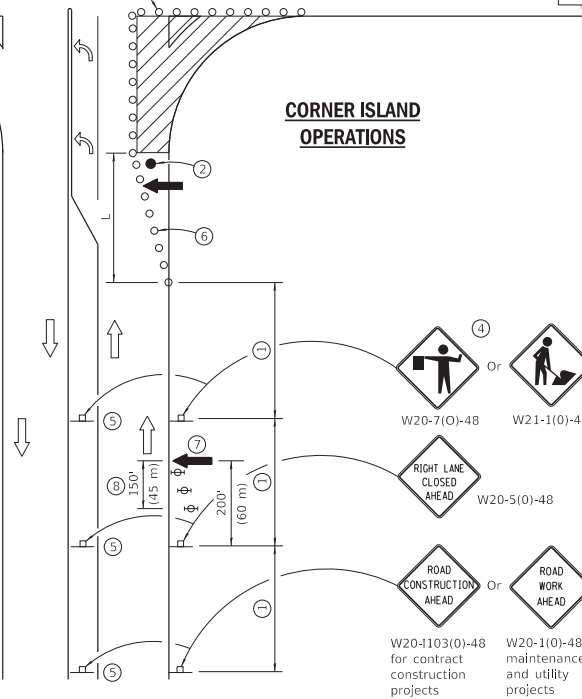
**SYMBOLS**

- Work area
- Cone, drum or barricade
- Sign on portable or permanent support
- Arrow board
- Barricade or drum with flashing light
- Flagger with traffic control sign

**SHOULDER OPERATIONS**



**CORNER ISLAND OPERATIONS**



**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	(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.

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**

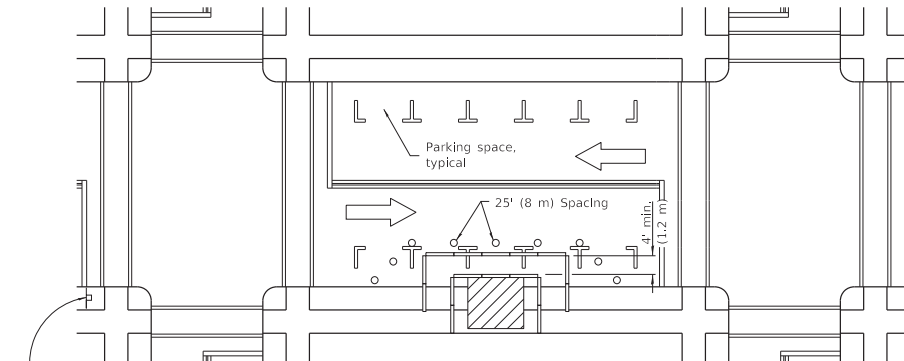
**STANDARD 701701-10**

Illinois Department of Transportation

PASSED April 1, 2016  
 ENGINEER OF SAFETY ENGINEERING

APPROVED April 1, 2016  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-14

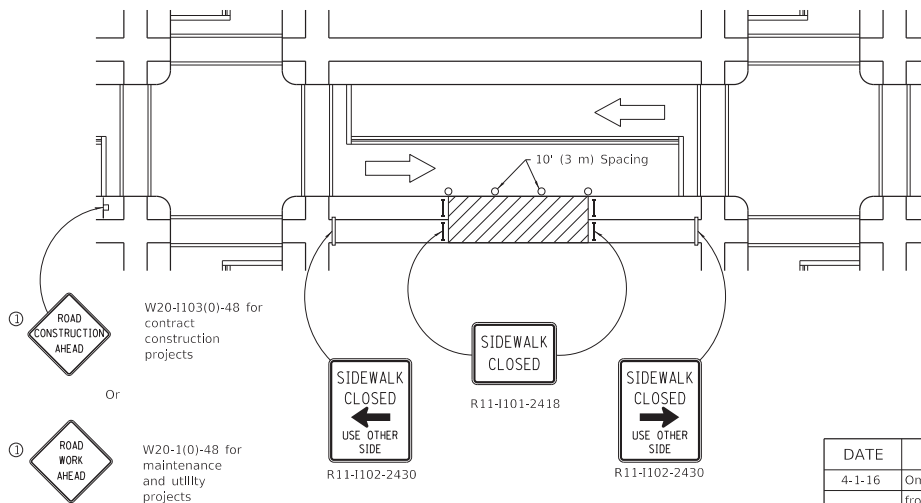


① ROAD CONSTRUCTION AHEAD  
W20-1103(0)-48 for contract construction projects

Or

① ROAD WORK AHEAD  
W20-1(0)-48 for maintenance and utility projects

**SIDEWALK DIVERSION**



① ROAD CONSTRUCTION AHEAD  
W20-1103(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.

**SYMBOLS**

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

**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.

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)

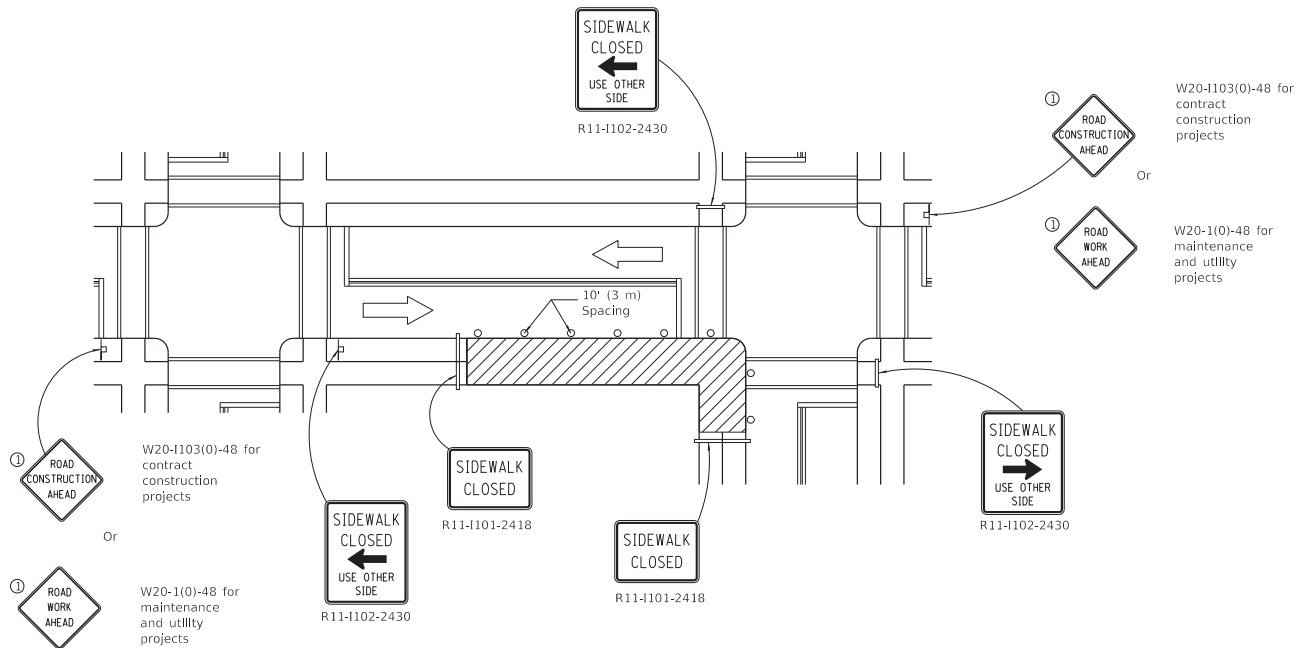
**STANDARD 701801-06**

Illinois Department of Transportation

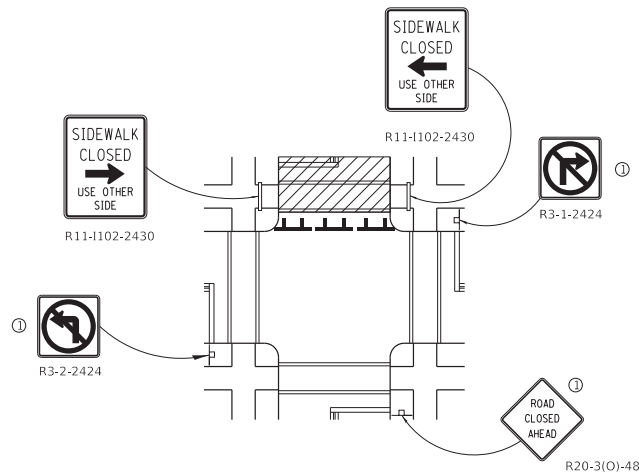
PASSED *[Signature]* April 1, 2016  
ENGINEER OF SAFETY ENGINEERING

APPROVED *[Signature]* April 1, 2016  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-17



**CORNER CLOSURE**



**CROSSWALK CLOSURE**

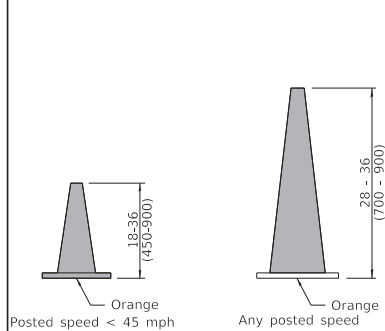
**SIDEWALK, CORNER OR CROSSWALK CLOSURE**

(Sheet 2 of 2)

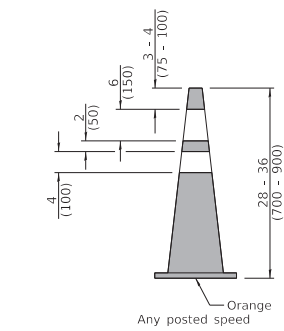
**STANDARD 701801-06**

Illinois Department of Transportation	
PASSED	April 1, 2016
ENGINEER OF SAFETY ENGINEERING	
APPROVED	April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT	

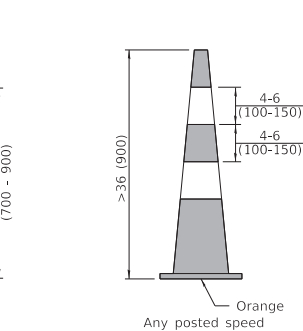
ISSUED 1-1-97



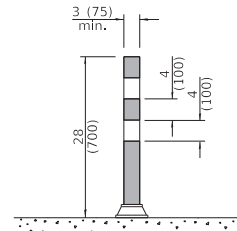
**DAYTIME USE**



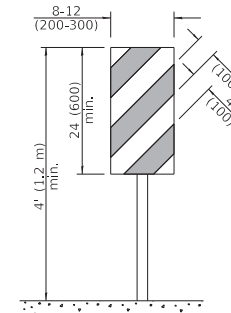
**CONES**



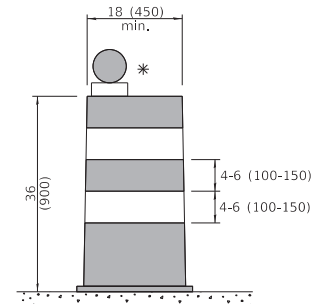
**DAY OR NIGHTTIME USE**



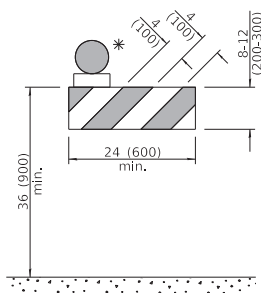
**TUBULAR MARKER**



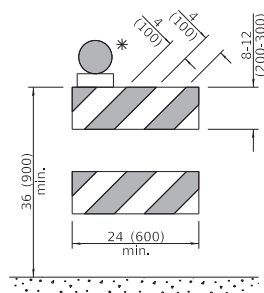
**VERTICAL PANEL  
POST MOUNTED**



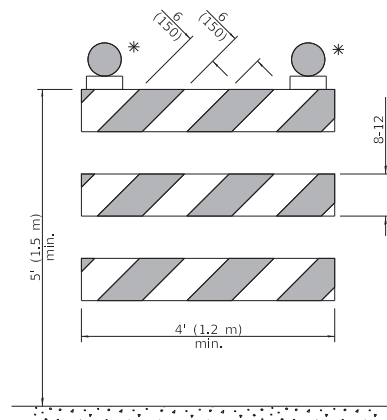
**DRUM**



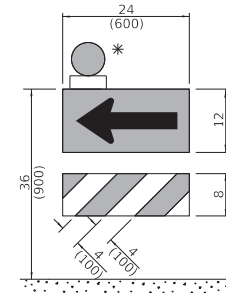
**TYPE I BARRICADE**



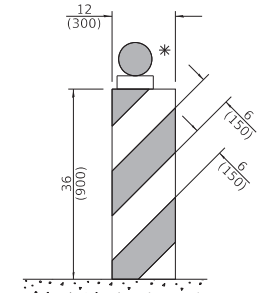
**TYPE II BARRICADE**



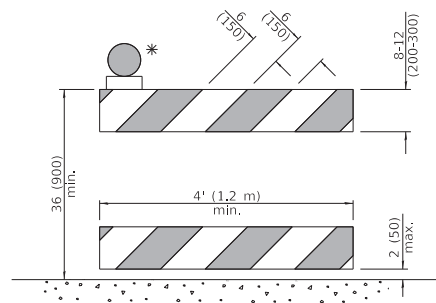
**TYPE III BARRICADE**



**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.

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**

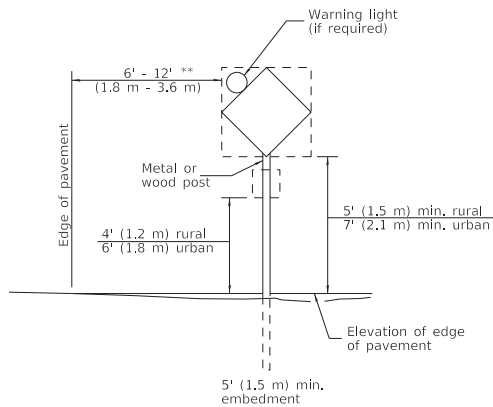
Illinois Department of Transportation

APPROVED January 1, 2019

ENGINEER OF SAFETY PROG. AND ENGINEERING

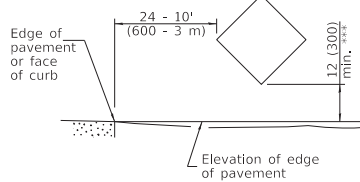
APPROVED January 1, 2019

ENGINEER OF DESIGN AND ENVIRONMENT



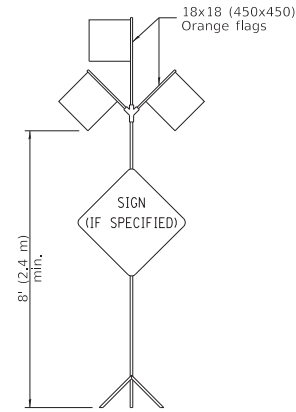
**POST MOUNTED SIGNS**

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



**SIGNS ON TEMPORARY SUPPORTS**

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



**HIGH LEVEL WARNING DEVICE**

ROAD  
CONSTRUCTION  
NEXT X MILES  
G20-1104(0)-6036

END  
CONSTRUCTION  
G20-1105(0)-6024

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

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

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

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

**WORK LIMIT SIGNING**



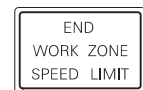
W21-1115(0)-3618

R2-1-3648

R10-1108p-3618 \*\*\*\*

R2-1106p-3618

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



G20-1103-6036

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

**HIGHWAY CONSTRUCTION SPEED ZONE SIGNS**

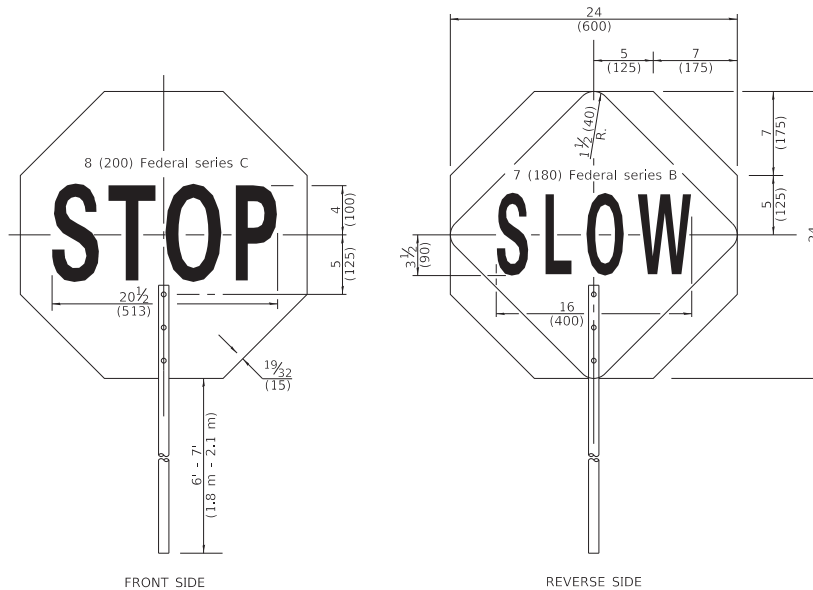
\*\*\*\* R10-1108p shall only be used along roadways under the jurisdiction of the State.



W12-1103-4848

**WIDTH RESTRICTION SIGN**

XX'-XX" width and X miles are variable.



**FLAGGER TRAFFIC CONTROL SIGN**

Illinois Department of Transportation

APPROVED January 1, 2019  
*Cynthia A. ...*  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

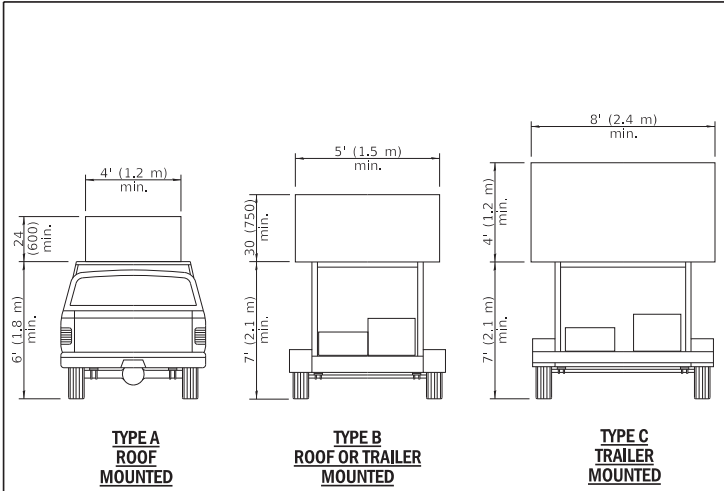
APPROVED January 1, 2019  
*... ..*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ST-11-1

**TRAFFIC CONTROL DEVICES**

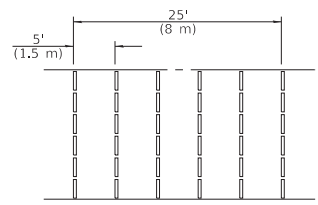
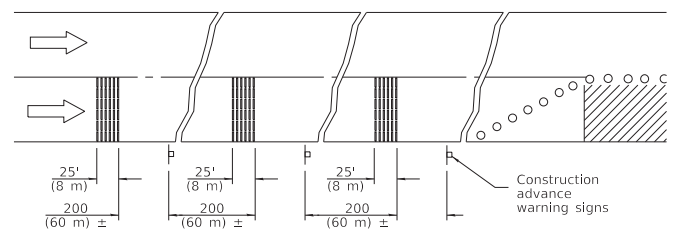
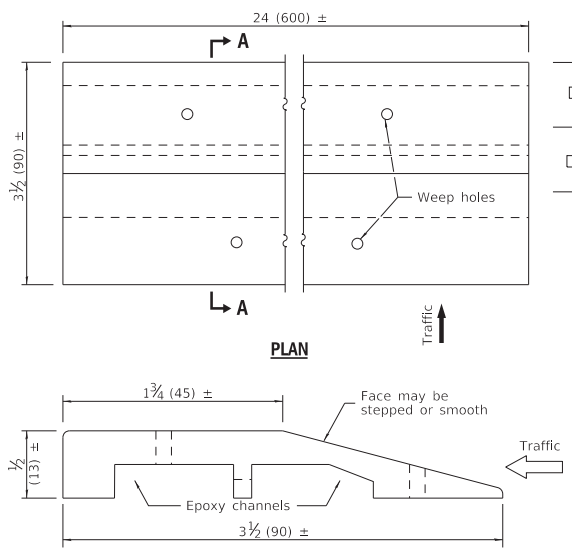
(Sheet 2 of 3)

**STANDARD 701901-08**



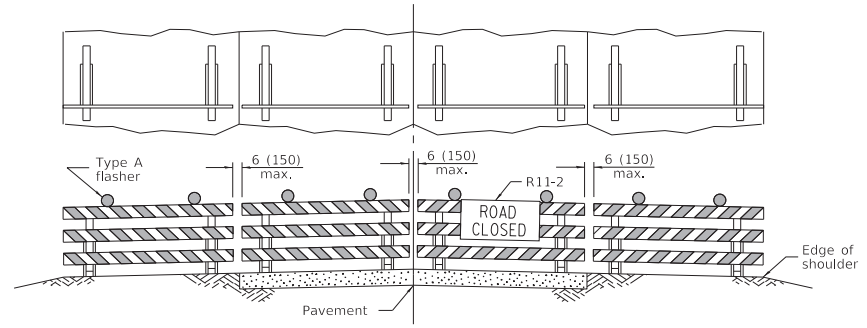
**TYPE A ROOF MOUNTED**  
**TYPE B ROOF OR TRAILER MOUNTED**  
**TYPE C TRAILER MOUNTED**

**ARROW BOARDS**



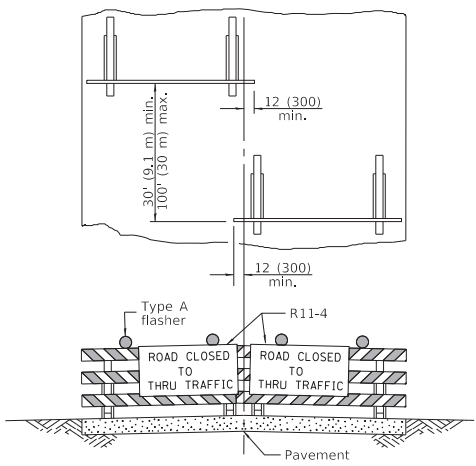
**TYPICAL INSTALLATION**

**TEMPORARY RUMBLE STRIPS**



**ROAD CLOSED TO ALL TRAFFIC**

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



**ROAD CLOSED TO THRU TRAFFIC**

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

**TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD**

**TRAFFIC CONTROL DEVICES**

(Sheet 3 of 3)

**STANDARD 701901-08**

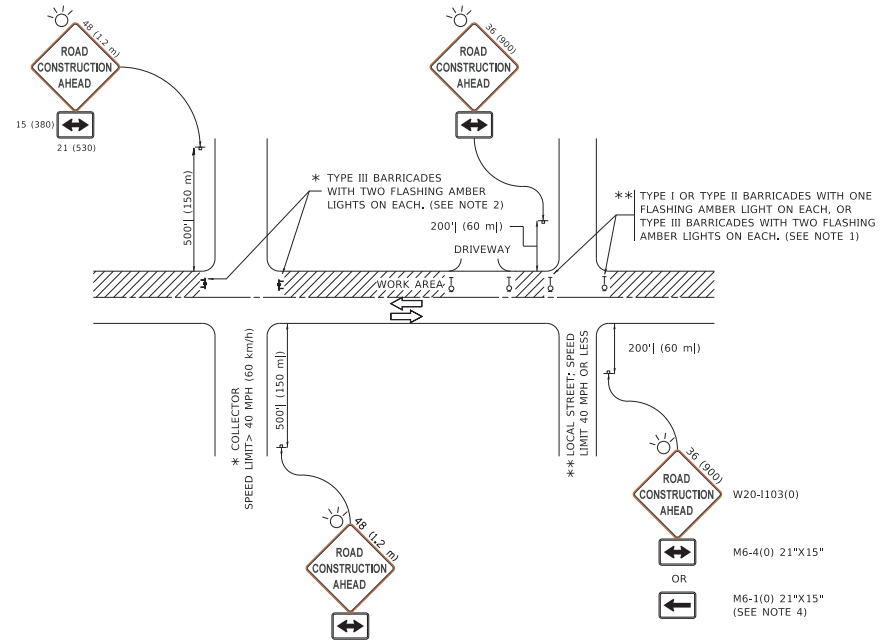
Illinois Department of Transportation

APPROVED January 1, 2019  
*Cynthia A. ...*  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019  
*... ..*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ST-C-11 (08/15)





**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.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

F.A. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>TC-10</b>			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

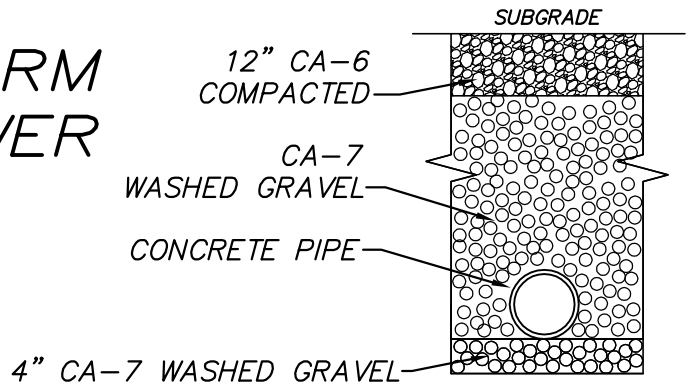
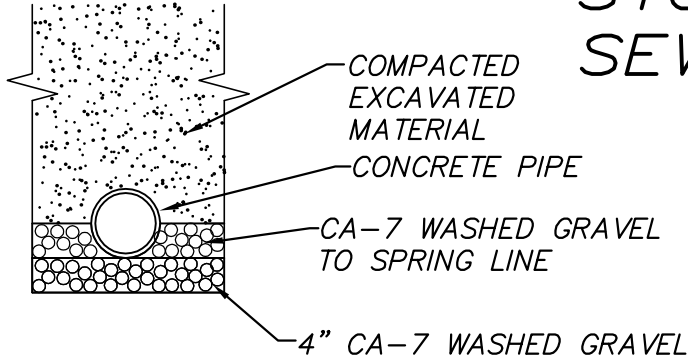
USER NAME	DESIGNED	REVISOR	DATE
Footeney	L.H.A.	A. HOUSEH	10-15-96
	DRAWN	T. RAMMACHER	01-06-00
	CHECKED	A. SCHUETZE	07-01-13
PLOT SCALE	DATE	REVISOR	DATE
30:0000 * 1/4"	06-09	A. SCHUETZE	09-15-16

MOBILE: D:\data\...  
 FILE NAME: ...  
 FILE PATH: ...

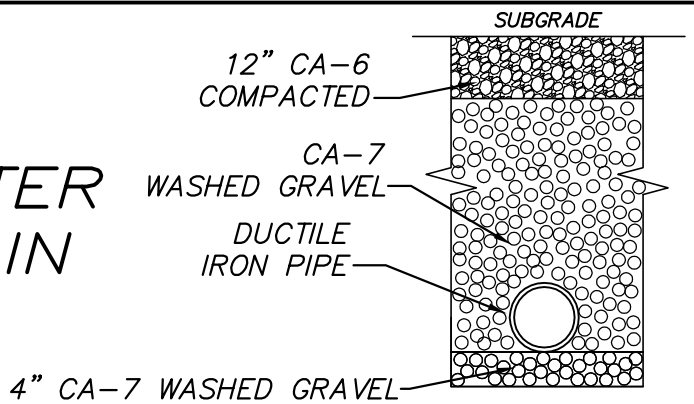
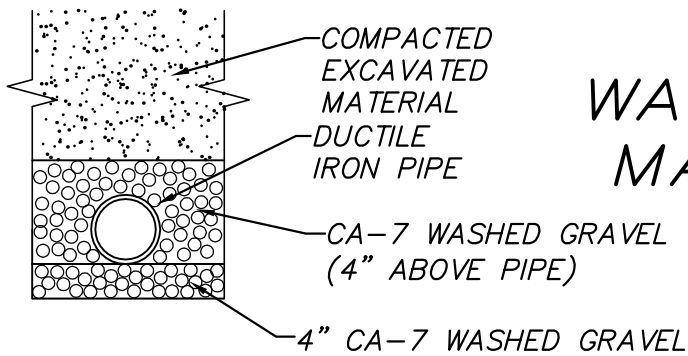
TRENCH BENEATH PARKWAY  
OR LANDSCAPE AREAS

TRENCH BENEATH PAVEMENT  
OR WITHIN TWO (2) FEET OF  
CURB & GUTTER OR SIDEWALK

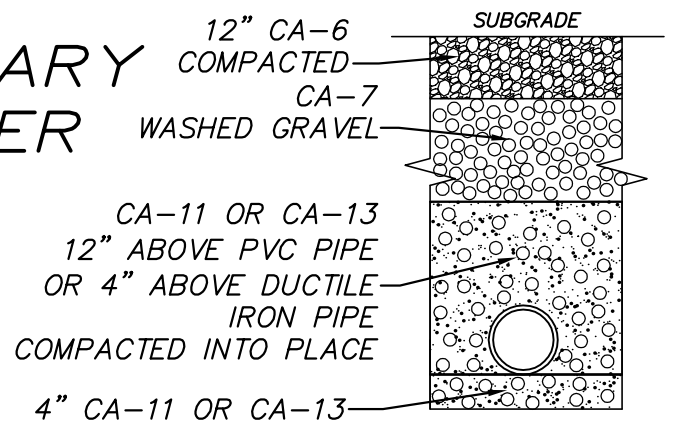
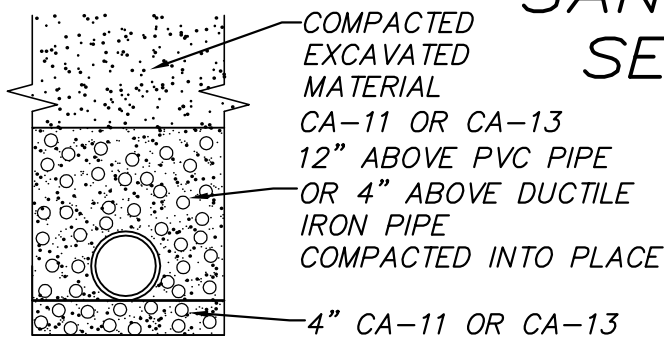
STORM  
SEWER



WATER  
MAIN



SANITARY  
SEWER



NOTE: ALL TRENCH WIDTHS SHALL EQUAL 4/3 PIPE DIA. + 8" OR A MINIMUM OF 32"

TRENCH BACKFILL DETAIL

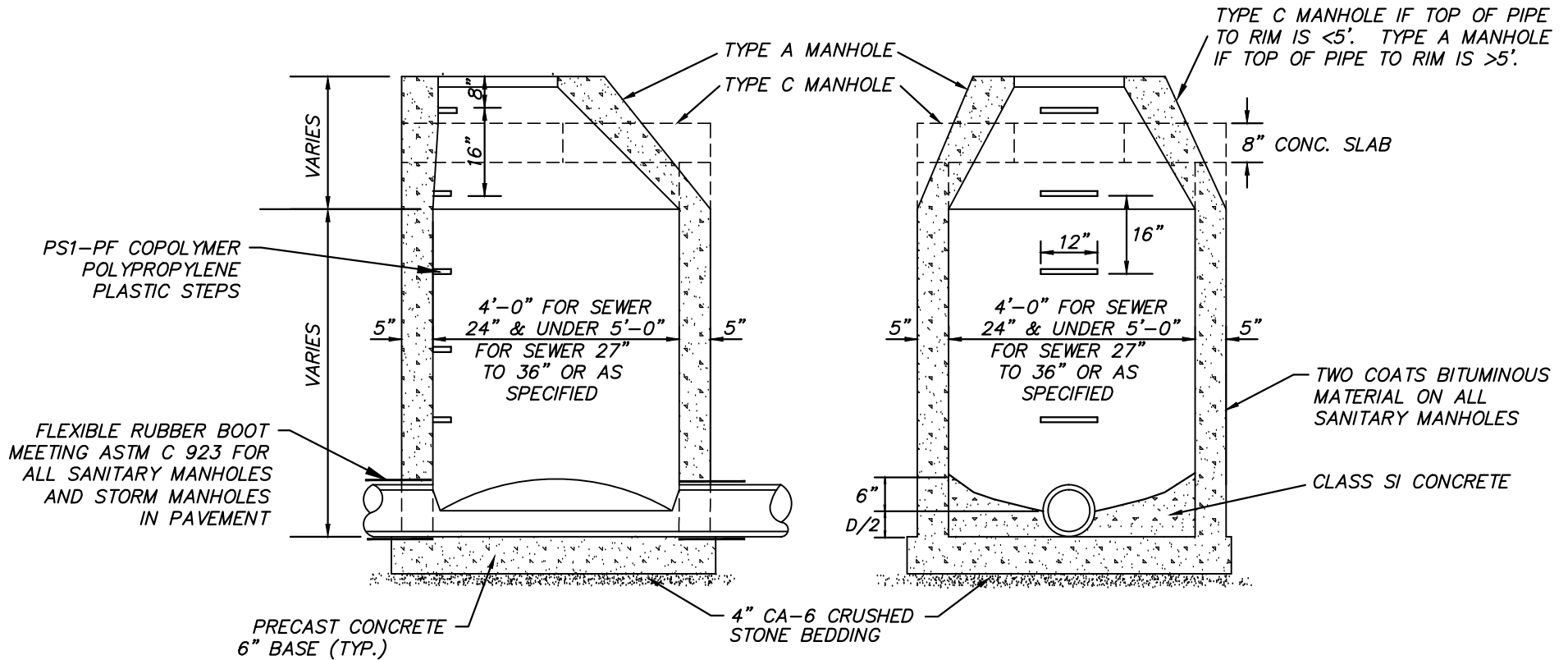
SCALE:	DATE:	DRAFTER:	NO.	REVISIONS	BY	DATE
NONE	2-16-07	NOR	1.	MISC UPDATES	SW	2/10
VILLAGE OF HOFFMAN ESTATES		FILE NAME:	TYP-TREN2.DWG			
TRANSPORTATION & ENGINEERING DIVISION		SHEET NO.	1 OF 1			

## FRAME AND GRATE TYPES

- FOR B6.12 CURB: NEENAH R-3278-A OR APPROVED EQUAL.\*
- FOR M3.12 CURB: NEENAH R-3501-P OR APPROVED EQUAL.
- USE NEENAH R-2504 WITH TYPE D GRATE, EAST JORDAN 1050Z1 WITH TYPE M1 GRATE OR APPROVED EQUAL FOR STRUCTURES WITHIN DEPRESSED CURB AREAS.

- FOR CLOSED COVERS, USE NEENAH R-1713 WITH TYPE B LID, EAST JORDAN 1050Z1 WITH TYPE A LID OR APPROVED EQUAL.

\* = CURB BOX MUST BE BARRED STYLE.



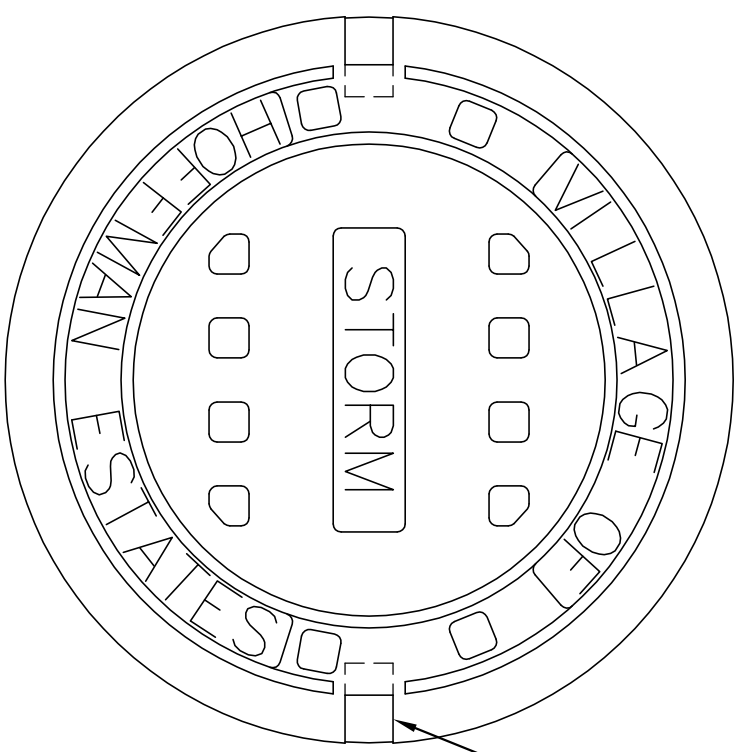
## MANHOLE TYPES A & C

- NOTES:
1. ONLY PRECAST STRUCTURES ALLOWED.
  2. TWO ADJUSTING RINGS ALLOWED, MAXIMUM HEIGHT = 12".
  3. MANHOLE SECTIONS TO BE JOINED WITH ROPE TYPE MASTIC (E-Z STICK OR EQUAL).
  4. PRECAST CONCRETE BASE MUST BE INTEGRALLY CAST WITH THE LOWEST WALL SECTION.
  5. ALL GRATES PROVIDED SHALL BE BICYCLE SAFE.
  6. ALL SANITARY SEWER MANHOLES SHALL HAVE A CHIMNEY SEAL FROM CRETEX OR APPROVED EQUAL.
  7. ALL STORM STRUCTURES LOCATED IN THE PAVEMENT SHALL FOLLOW THE WEEPHOLE DETAIL.

## MANHOLE DETAIL

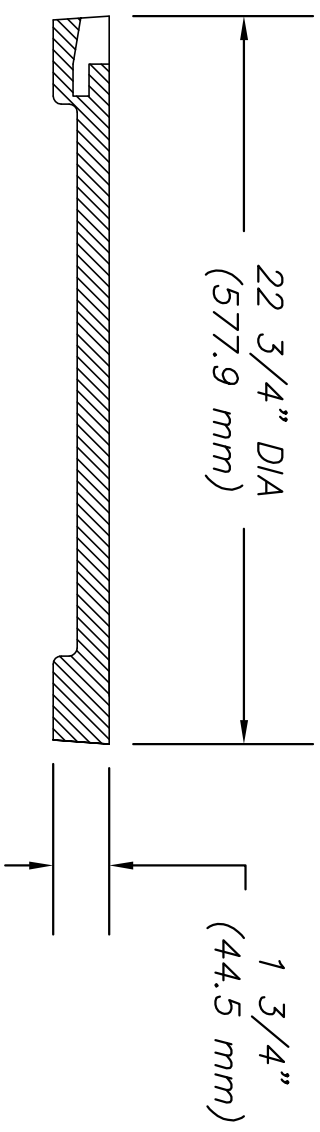
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DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW	2	UPDATE F&G	GB	12/16
VILLAGE OF HOFFMAN ESTATES TRANSPORTATION & ENGINEERING DIVISION			FILE NAME: MANHOLE.DWG	SHEET NO. 1 OF 1	

NOTE:  
 PRIVATE SYSTEMS OR SERVICES SHALL NOT INCLUDE "VILLAGE OF HOFFMAN ESTATES" ON THE STORM COVER.



(2) CONCEALED PICKHOLES

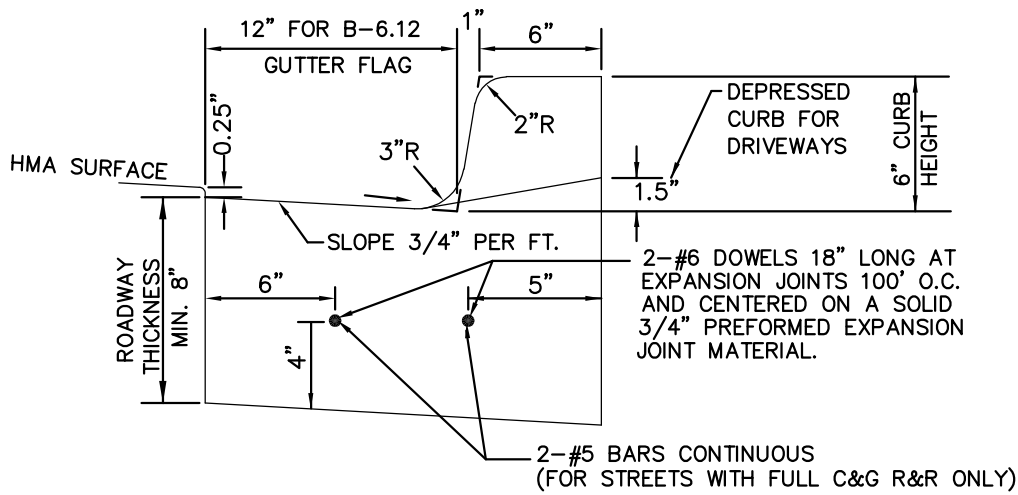
1 1/2" (38.1 mm) LETTERS  
 (RECESSED FLUSH)



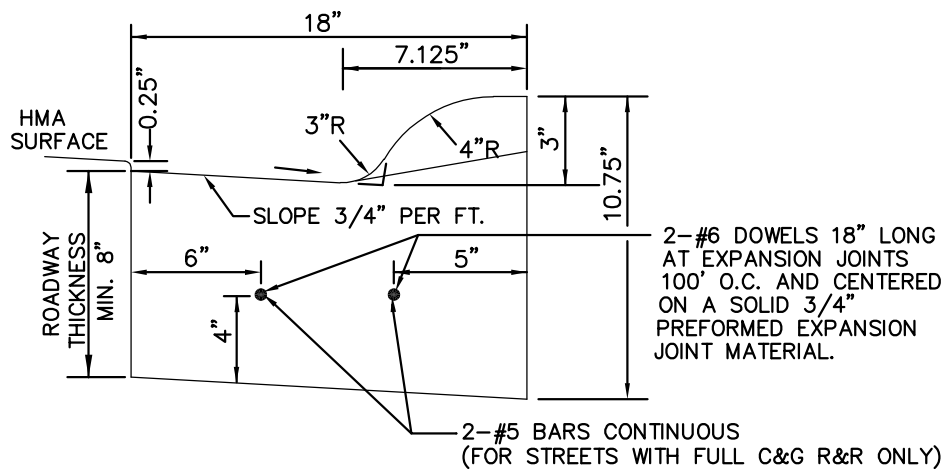
HEAVY DUTY  
 MAT'L ASTM A48 CL35  
 MACHINED BEARING SURFACE  
 COVER WT: 125 LBS (56.7 kg)

### STORM COVER DETAIL

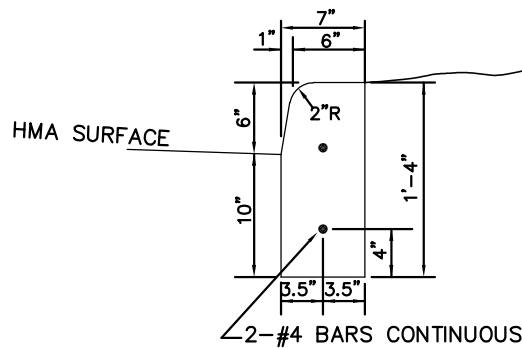
SCALE	NONE	NO.	REVISIONS	BY	DATE
DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES			FILE NAME:	SHEET NO.	
TRANSPORTATION & ENGINEERING DIVISION			STRM/CVR.DWG	1 OF 1	



TYPE B6.12 CURB AND GUTTER



TYPE M3.12 CURB AND GUTTER



6" BARRIER CURB

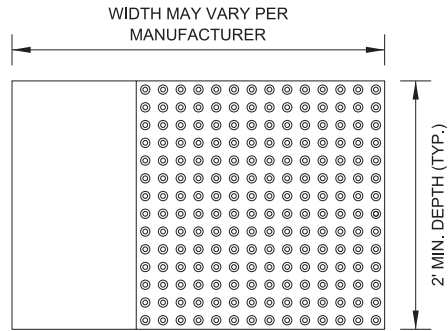
NOTES:

1. THE CURB SHALL BE DEPRESSED AT ALL APRONS AND ACROSS ALL SIDEWALK RAMPING IN ACCORDANCE WITH PROJECT DETAILS AND ADA GUIDELINES.
2. CONTRACTION JOINTS TO BE TOOLED OR SAWCUT EVERY 15' TO A DEPTH OF 1.5".
3. EXPANSION JOINTS SHALL BE PROVIDED AT THE BEGINNING AND END OF ALL RETURN RADII, 5 FEET EITHER SIDE OF A DRAINAGE STRUCTURE, AT THE END OF A DAY'S POUR, AND/OR AT SPACING NOT TO EXCEED 100 FEET.

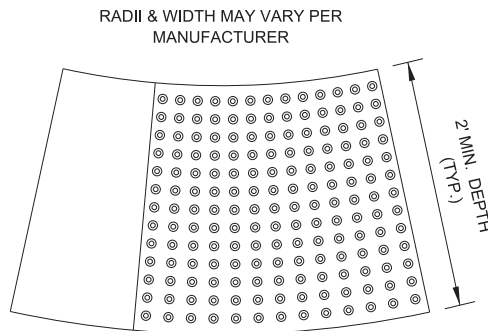
CURB AND GUTTER DETAILS					
SCALE	NTS	NO.	REVISIONS	BY	DATE
DATE	8/9/19	1	SPECIAL	SLW	6/21
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES ENGINEERING DIVISION			FILE NAME:	SHEET NO.	
			CURB & GUTTER 2021.DWG	1	

CURB AND GUTTER DETAIL

**STRAIGHT DETECTABLE WARNING UNITS**



**RADIAL DETECTABLE WARNING UNITS**

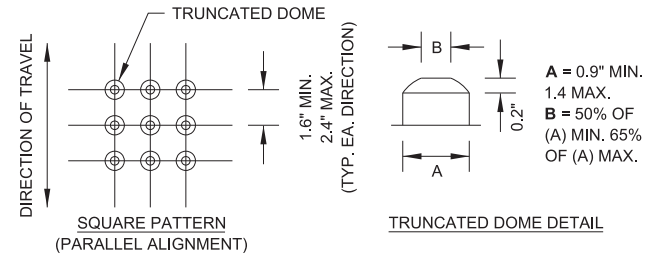


**DETECTABLE WARNING UNIT SIZES**

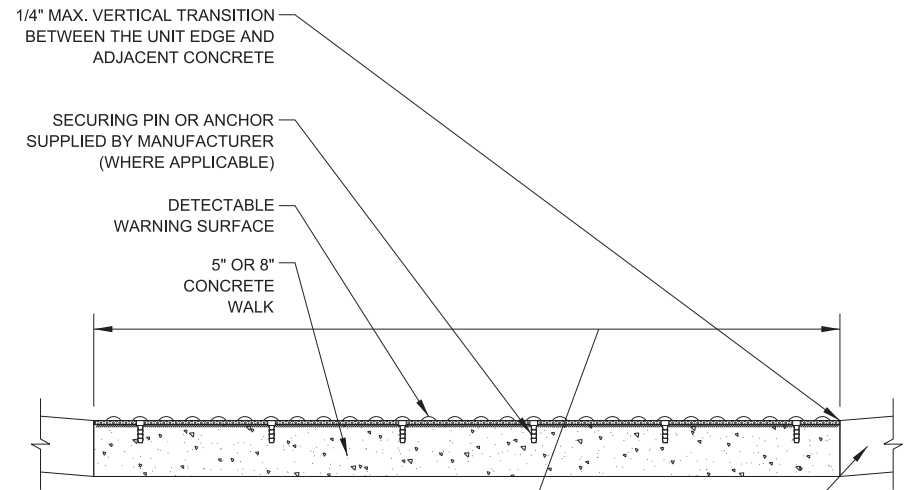
- VERIFY ALL DIMENSIONS WITH THE PRODUCT MANUFACTURER.
- IF USING RADIAL UNITS, VERIFY THAT THE CURB RADIUS MATCHES AVAILABLE UNIT RADII WITH THE PRODUCT MANUFACTURER.

**GENERAL NOTE:**

THE ROWS OF DOMES IN THE DETECTABLE WARNING MATERIAL MUST BE ALIGNED WITH THE PATH OF WHEELCHAIR TRAVEL WHICH IS REQUIRED TO BE PERPENDICULAR TO THE GRADE BREAK AT THE BOTTOM OF THE RAMP TO PERMIT TRACKING BETWEEN DOME ROWS. ON BLENDED TRANSITIONS OR FLUSH TRANSITIONS, WHERE RADIAL UNITS ARE SITUATED ABOUT THE CURB RADIUS, DOME ORIENTATION IS NOT SIGNIFICANT.



**UNIT PATTERN & DOME DETAIL**



\*A BORDER OF 2 INCHES OR LESS AROUND THE DETECTABLE WARNING SURFACE IS ACCEPTABLE IF REQUIRED FOR PROPER INSTALLATION OF THE DETECTABLE WARNING SURFACE PRODUCT

**DETECTABLE WARNING UNIT SECTION**

I:\Projects\2017\11172-ARC\Drawings\11172-ARC-001.dwg  
 FILE NAME: 11172-ARC-001.dwg  
 PLOT DATE: 10/18/2019 10:12:27 AM  
 USER: jmoran

USER NAME	- jmoran	DESIGNED	-	REVISED	-
DRAWN	-	CHECKED	-	REVISED	-
DATE	-	DATE	- 06-20-2017	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO  
DETECTABLE WARNINGS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BD 58			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				



VILLAGE OF HOFFMAN ESTATES  
SALES TAX EXEMPTION NUMBER AUTHORIZATION FORM

The undersigned contractor hereby agrees to use the Village of Hoffman Estates sales tax exemption number only for purchases directly related to work being done on behalf of the Village. The undersigned also agrees to be responsible for any tax due for purchases determined to be non-exempt and for purchases not made on the Village's behalf.

It is understood that the exemption from tax in the case of the sales of articles is limited to the sales of articles purchased for the exclusive use of the Village and it is agreed that if articles purchased tax free are used otherwise or are sold to others, such fact will be reported to the State of Illinois Department of Revenue. It is also understood that the fraudulent use of the exemption number to secure exemptions will subject the undersigned and all guilty parties to a fine of not more than \$10,000 or to imprisonment for not more than five years or both, together with costs of prosecutions.

\_\_\_\_\_  
NAME OF PROJECT AND/OR CONTRACT NUMBER

\_\_\_\_\_  
COMPANY NAME

\_\_\_\_\_  
ADDRESS

\_\_\_\_\_  
CITY

\_\_\_\_\_  
ZIP CODE

\_\_\_\_\_  
PURCHASER NAME & TITLE (PLEASE PRINT)

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
DATE

Before a Tax Exemption Letter is issued to the contractor, this form and the materials and estimated quantities form must be returned to the appropriate Village personnel. After the completed forms have been received by the Village, a Tax Exempt Letter will be mailed to the contractor.

**VILLAGE OF HOFFMAN ESTATES  
MATERIALS AND ESTIMATED QUANTITIES ATTACHMENT**

DESCRIPTION OF MATERIALS TO BE PURCHASED	ESTIMATED QUANTITY	NAME OF VENDOR SELLING MATERIALS	VENDOR PHONE NUMBER	VENDOR'S STREET ADDRESS	VENDOR'S CITY, STATE, AND ZIP CODE
1)					
2)					
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					